

S&S° Cycle Dealer Catalog • Late Model
Parts & Accessories for 1999–and later models*
*including 1986 & later xl and Indian° models



LOOKING FOR REPLACEMENT PARTS?

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S&S LATE MODEL CONTENTS:

MILWAUKEE-EIGHT® ENGINES

Exciting new performance products for motorcycles with the HD® Milwaukee Eight® engine

2007-2016 BIG TWIN

Performance upgrades for 2007–'17 HD® big twins with Twin Cam 96™, 103™, 110™ engines. From the basics like slip-on mufflers and air cleaners to camshafts, fuel systems, and big bore kits, to complete big inch engines. Replacement parts and service items too!

1999-2006 BIG TWIN

Everything you need to upgrade and maintain 1999–'06 HD® big twins with Twin Cam 88® and Twin Cam 888™ engines. Exhaust, intake, fuel systems, cams, big bore kits, and complete engines. Also many service and replacement components.

SPORTSTER® & BUELL®

HD® Sportster® motorcycles are becoming increasingly popular. S&S offers a lot of options for increasing displacement and performance. Carburetors, air cleaners, big bore kits, cam shafts, cylinder heads, and much more.

STREET[®]

Performance products for Harley-Davidson® Street® & Street Rod™ engines.

INDIAN®

Performance parts for Indian® motorcycles.

TOOLS & SHOP SUPPLIES

Every job is easier with the right tools. Keep your bike running in top condition! You'll find special tools, shop supplies and fluids you need, whether you are a "do-it-yourselfer" or a professional servicing technician.

S&S Late Models 1999-up

A WORD ABOUT DYNO NUMBERS

With a motto like "Proven Performance®", which is a registered trademark of S&S® Cycle Inc., it is very important that we be able to back up our claims regarding performance. It is also vitally important to be able to evaluate new designs in our development process. One of the tools we depend on for both of these functions is the chassis dynamometer.

Something that needs to be understood about dynamometers is that the results from one dyno will not necessarily be identical to those from another dyno. So comparing results from different dynos is bound to create a certain amount of confusion. This is especially true with dynos from different manufacturers. However, results of tests run on the same machine can be compared with a high degree of confidence. We can determine, for example if a performance modification increased power or torque, but there is a problem if you expect absolute values.

There are several brands of dynamometers which are in common use in the performance industry. These dynos will yield very reliable values for comparison, especially when tests are performed on the same machine. However values obtained from these dynos may not always agree. Which value is correct? It depends on who you ask.

NO ABSOLUTES

In our literature and catalogs, we publish dyno results so our customers easily can see how our products improve performance over stock. However, it must be remembered that these are comparative values, and should not be taken as absolutes. If a similar or even identical engine or motorcycle is tested on another dynamometer, the results will more than likely differ.





SYMBOL KEY



CONFIGURE TO ORDER: CTO allows you to choose available options for a specific part or kit, and covers both "special order" parts and "made to order" kits. Some CTO kits have a base price with additional upcharges for the optional selections. In some cases, the entire price of a kit is determined by upcharges for the options selected. It is best to call an S&S customer service representative and configure the kit with exactly the options you want.



VIDEO If you see this icon, there is a video available.



These are our latest innovations to the market.

EMISSIONS SYMBOLS



Part numbers marked with this logo are replacement parts for specific S&S certified emission engines and are legal for sale and use on these engines. The number(s) listed by each logo in the catalog indicates the model(s) of S&S certified engines that use the part. Use the table below to reference your engine model to its number in the logo.



Example: This part is legal for use on V96E, V124C, and V124E engine models.

Engine Model Number		
V96E	1	
V100C, V113E, V113C	2	
V124E, V124C	3	
X117E, X117C	4	



Part numbers marked with this logo are legal to be sold for and used as replacement parts on Harley-Davidson® motorcycles in all 50 states. These parts may only be installed on a motorcycle model listed in the part's description. Selling or installing these parts on a pollution controlled motorcycle not listed is in violation of California and/or Federal emissions laws and could result in fines and penalties.



S&S Cycle's products designed to meet

California's emissions standards.



S&S Cycle products that are EC-approved have an e mark from the European Commission in accordance with the mandatory members of the EU Directive and are legal for sale and use in Europe.

MISSION STATEMENT AND TRADEMARK INFORMATION

MISSION STATEMENT: Proven Performance® for the Powersports Industry.

DISCLAIMER: The names Harley, Harley-Davidson, Buell, H-D, and all trademarks owned by Harley-Davidson and its affiliated companies, and all Harley-Davidson and Buell part numbers and model designations are used for reference only. S&S Cycle is in no way associated with or authorized by Harley-Davidson Motor Co. to manufacture and sell any of the engine parts described in this catalog.

THE FOLLOWING ARE TRADEMARKS OF HARLEY-DAVIDSON® MOTORCYCLE COMPANY: BUELL® • Dyna® •

Evolution® • Evo™ • Harley® • Harley-Davidson® • HD® • H-D® • Heritage Softail® • Milwaukee-Eight® • Screamin' Eagle® • Softail® • Sportster® • Twin Cam 88® • Twin Cam 88B™ • Twin Cam 96™ • Twin Cam 96B™ • Twin Cam 103™ • Twin Cam 110™ • Tri Glide™ Other trademarks mentioned in this catalog are the property of their respective owners and are used for reference only.

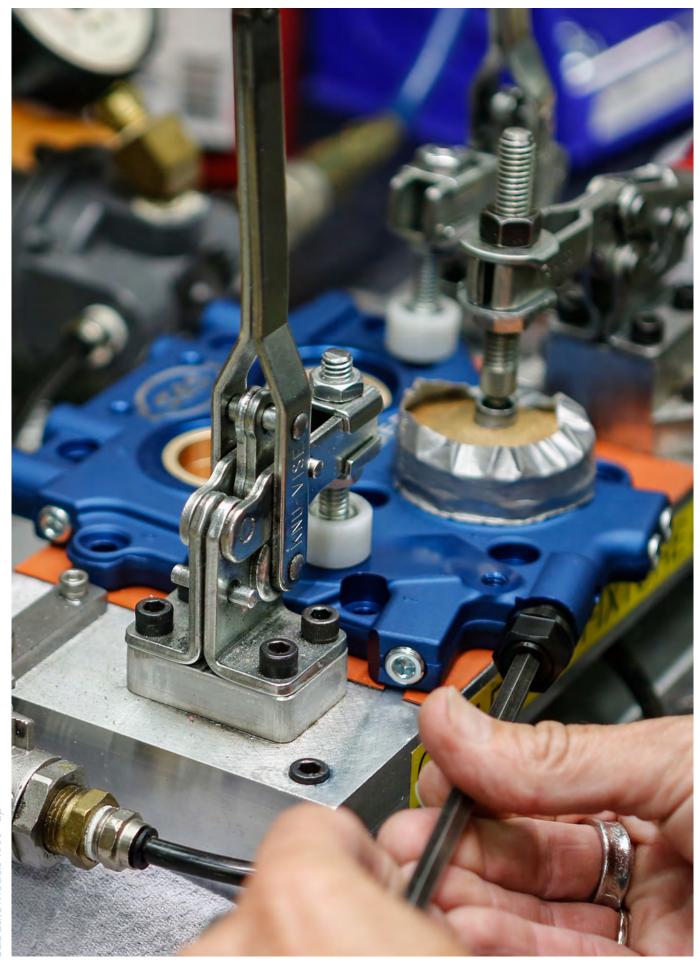
American Andrews Products • Delphi • Dynojet • Hitachi • Keihin • Kevlar • Magneti Marelli • • NHRA • Sunnen • SuperFlow • Tillotson • Timken • Viton

THE FOLLOWING ARE TRADEMARKS OF S&S CYCLE INC.

Body Parts • Dealer Focus • EZFI • Frame Lock • G-Extreme • Hot Set Up Kit • IST • Performance Times • Power Tune • Proven Performance • S&S • S&S Service & Speed Center • Sidewinder • SPO • Super Stock • X-Wedge • Flathead Power • Viola V-Twin







MILWAUKEE-EIGHT®

	Performance Kits 124" Big Bore Kit
	Cylinders 25 Exhaust 9 Gaskets 33 Oil 34 Oil Filters 34 Oil Pump 29 Pushrods 32 Tappets 31 Valve Springs 33
	Replacement Parts35

Mk45 TOURING MUFFLERS

FITMENT

2017—2020 Harley-Davidson® touring models with Milwaukee-Eight® engine Does not fit Trike or Freewheeler models

FEATURES AND BENEFITS

- Bold 4.5" design with stainless steel baffle and Race TEX cartridge packing
 Available in show quality chrome or ceramic black finish
- Choose from S&S Thruster or Tracer endcap designs in chrome or black
- SAE J2825 sound level compliant
- Removable dB reducer
- Made in USA!



Removable dB reducer

MK45 4.5" SLIP-ON MUFFLERS

Muffler Body Finish	Endcap Finish & Style	Part #
	Chrome Thruster	550-0665
Character	Black Highlight Machined Thruster	550-0664
Chrome	Chrome Tracer	550-0669
	Black Highlight Machined Tracer	550-0668
	Chrome Thruster	550-0667
Black	Black Highlight Machined Thruster	550-0666
	Chrome Tracer	550-0671
	Black Highlight Machined Tracer	550-0670

^{*}Qualified manufacturer declared U.S. 50-State legal emissions replacement part on all MY 2017-2020 FL Touring models ▲ WARNING: Cancer and Reproductive Harm



550-0665





550-0667



550-0666



550-0669





550-0671



550-0670



EL DORADO M8 HIGH PERFORMANCE EXHAUST SYSTEM—STREET LEGAL

- 50 State legal—CARB compliant: EO# K-010-10
- Improved power & torque for greater rideability
- Available in show quality chrome or ceramic black heat shields and muffler bodies
- Bold 4.5" mufflers with billet endcaps
- Highlight Machined Thruster and Tracer, as well as Chrome Tracer tip options
- 02 sensor location same as stock
- Includes adapters that allow use of wide band or stock O2 sensors
- Stainless steel header construction
- High flow cats increase exhaust flow for optimum torque
- Produces a deep bass rumble throughout the RPM range Relocation of cats to mufflers reduces rider heat
- Meets SAE J2825 sound standard
- · Made in the USA!

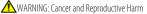


EL DORADO EXHAUST SYSTEM FOR 2017-'19 TOURING MODELS — STREET LEGAL

Finish	Endcap	Part #
Chrome	Black Highlight Machined Thruster	550-0699B
Black	Black Highlight Machined Thruster	550-0700B
Chrome	Black Highlight Machined Tracer	550-0701B
Black	Black Highlight Machined Tracer	550-0702B
NEW (01) 2020 Chrome	Chrome Tracer	550-0851

*NOTE: Does not fit Trike models

Exempt from emissions tampering regulations under CARB EO# K-010-10 for all 2017-2019 FL Touring Models









Black w/Tracer



Black w/Thruster



Chrome w/Thruster



Chrome w/Tracer



Chrome w/Chrome Tracer



GRAND NATIONAL® 4" SLIP-ON MUFFLERS FOR 2017-2020 FLH TOURING MODELS

FITMENT

• 2017–2020 FLH touring models

FEATURES AND BENEFITS

- Show quality chrome or ceramic black finish
- Race inspired Grand National endcap
- High flowing baffle design
- Aggressive sound and excellent horsepower
- SAE J2825 sound level compliant
- Removable dB reducer
- Excellent choice for Trike models (See chart)
- Made in USA!





GRAND NATIONAL® 4" MUFFLERS FOR 2017–2020 TOURING M8 ENGINES" EXCEPT FREEWHEELER® OR TRIKE MODI		
Finish	Part #	

FINISN	Part #
Chrome	550-0693
Black	550-0694

GRAND NATIONAL® 4" MUFFLERS TOURING MUFFLERS FOR 2017-2020 TRIKE MODELS*††

Chrome	550-0689
Black	550-0690

^{*}Qualified manufacturer declared U.S. 50-State legal emissions replacement part on all MY 2017-2020 FL Touring models

MARNING: Cancer and Reproductive Harm



^{**}DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with mufflers containing catalyst. Qualified Manufacturer Declared Emissions Replacement Part on 2017 to 2020 Touring Trike Models Only



FEATURES AND BENEFITS

- Classic slash cut styling
- Available in show chrome or ceramic black finish
- Stripped down styling
- Aggressive sound
- Economical price SAE J2825 sound level compliant
- Removable dB reducer included
- Excellent choice for Trike models (See chart)
- Made in USA!



SLASH CUT 4" TOURING MUFFLERS FOR 2017–2020 TOURING M8 ENGINES" EXCEPT FREEWHEELER® OR TRIKE MODELS

Finish	Part#
Chrome	550-0695
Black	550-0696

SLASH CUT 4" TOURING MUFFLERS FOR 2017-2020 TRIKE MODELS (SEE PAGE 56 FOR MORE DETAILS)††

Chrome	550-0691
Black	550-0692

^{*}Qualified manufacturer declared U.S. 50-State legal emissions replacement part on all MY 2017-2020 FL Touring models

WARNING: Cancer and Reproductive Harm



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SIDEWINDER 2:1 EXHAUST SYSTEM

FITMENT

• 2017-2020 M8 FL Models

FEATURES AND BENEFITS

- 2:1 styling for high-performance baggers
- High-flow cat
- Increased power and torque
- Available in show chrome or ceramic black finish
- Machined aluminum endcap Includes adapters that allow use of wide band or stock 02 sensors
- Stainless steel stepped header construction
- Deep 2:1 performance exhaust note
- SAE J2825 sound level compliant
- Removable dB reducer included (Race only version)
- Made in USA!



Removable dB reducer







See next page for Left Side Shadow Pipe

SIDEWINDER 2:1 EXHAUST SYSTEM FOR 2017-'19 M8 TOURING MODELS — STREET LEGAL[†]

Finish	Part#	
Chrome	550-0758B	
Black	550-0759B	
SIDEWINDER 2:1 EXHAUST SYSTEM FOR 2017–2020 M8 TOURING MODELS — RACE ONLY**		
Chrome	550-0728	
Black	550-0729	

[†]Exempt from emissions tampering regulations under CARB EO# K-010-11 for all 2017-2019 FL Touring Models

^{**}DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. NOT LEGAL FOR SALE OR USE NATIONWIDE ON ANY FEDERAL POLLUTION CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT



SHADOW PIPEFOR 1995–2020 TOURING MODELS WITH S&S SIDEWINDER® 2:1 EXHAUST

FEATURES AND BENEFITS

• Available in show chrome and ceramic black finish

• Shadow muffler fills left side cutout in extended bags when running Sidewinder 2:1

Matching endcap for left side is a mirror image of right side Sidewinder 2:1 Cap

• 4.5" design

All hardware included



2009-2020 TOURING MODELS EQUIPPED WITH S&S° SIDEWINDER° 2:1 EXHAUST

Chrome	550-0829
Black	550-0831

If you have			you'll need	
BIKE	FINISH	SIDEWINDER PART #	SHADOW PIPE PART #	
2017—2020 touring model	Characa	550-0728	550,0000	
	Chrome	550-0758B	550-0829	
	Disale	550-0729		
	Black	550-0759B	550-0831	



FITMENT

- 2018—2020 HD® Street Bob®, Low Rider®, Softail Slim®, Fat Bob®, Deluxe, Sport Glide® & Heritage® models®
- 2018—2020 HD® Softail® Fat Boy®, Breakout® & FXDR® models

Mid mounts require brake pedal kit (part # 560-0259/ msrp \$119.95)

FEATURES AND BENEFITS

- Classic 2:1 styling with world famous S&S performance!
 Fits floorboard and forward controls and fits mid mounts with S&S brake pedal kit (560-0259)
 Saddlebag support compatible! Works with OEM and similar size saddlebags (like Heritage® or Sport Glide® models)
- Full heat shields on both front and rear headers
- Stainless steel stepped header construction
- S&S engineered high performance catalyst brings legal performance to the street! (Street Legal version)
- 50 State legal for 2018—2019 Softail models! CARB EO# K-010-5
- Computer aided design and precision bending for class-leading ground clearance
- New multi-faceted machined endcap design
- Available in show quality chrome or ceramic black finish
- Oxygen sensor ports allow use of wide band or stock 02 sensors
- Passenger peg bracket included (Fat Boy, FXDR and Breakout version. All others use OE Heritage location)
- SAE J2825 sound level compliant
- Removable dB reducer included (Race only version)
- Made in the USA!





SUPERSTREET 2:1 EXHAUST SYSTEM — STREET LEGAL*

Fitment	Finish	Part #
2010 /10 UN® Ctreat Dake Law Didare Caffail Clime Fat Dake Dalwa Chart Clidae & Haritagae modale	Black with Black Endcap	550-0789A
2018—'19 HD® Street Bob®, Low Rider®, Softail Slim®, Fat Bob®, Deluxe, Sport Glide® & Heritage® models®	Chrome with Black Endcap	550-0791A
2010 (10 II D@ C. 4: I@ C. 4 D @ D L 4@ 0 EVDD@ L. I.	Black with Black Endcap	550-0846A
2018—'19 HD® Softail® Fat Boy®, Breakout® & FXDR® models	Chrome with Black Endcap	550-0847A

SUPERSTREET 2:1 EXHAUST SYSTEM — RACE ONLY[†]

2018–2020 HD Street Bob, Low Rider, Softail Slim, Fat Bob, Deluxe, Sport Glide & Heritage models	Black with Black Endcap	550-0788
2016—2020 nd Street Bob, Low Rider, Sortali Silili, Pat Bob, Deluxe, Sport dilde & neritage illoueis	Chrome with Black Endcap	550-0790
2019 2020 LID Coffeil Fet Pay President 9 EVDD models	Black with Black Endcap	550-0857
2018–2020 HD Softail Fat Boy, Breakout & FXDR models	Chrome with Black Endcap	550-0858

^{*}Exempt from emissions tampering regulations under CARB EO# K-010-5 for all 2018-2019 Softail models

DISCLAIMER: FOR CLOSED COURSE COMPETITION USE ONLY. NOT INTENDED FOR STREET USE. LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES WHICH MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR USE, UPON A HIGHWAY.

MARNING: Cancer and Reproductive Harm



CARB EO K-010-4

CARB EO K-010-7

GRAND NATIONAL® 2:2 EXHAUST SYSTEM FOR 2018–2020 HD® STREET BOB®, LOW RIDER®, SLIM®, FAT BOB®, & DELUXE MODELS

FEATURES AND BENEFITS

- 2:2 Free-flow design equals solid HP gains
- Fits floorboard and forward controls and fits mid mounts with S&S brake pedal kit (part #560-0259 for \$119.95)
- Hidden crossover provides performance benefits of 2:1
- Full heat shields on both front and rear headers
- Stainless steel header construction
- High flow catalytic converters maintain the performance of a straight through system
- Race inspired Grand National® endcap
- Available in chrome or ceramic black finish
- Oxygen sensor ports allow use of wide band or stock O2 sensors.
- SAÉ J2825 sound level compliant
- Removable dB reducer included (Race only version)
- Right side passenger peg relocation bracket (part #550-0801 for \$69.95)
- Made in USA!





GRAND NATIONAL® 2:2	2 EXHAUST SYSTEM FOR 2018-	-'19 M8 FAT ROR® MODFI S —	- STRFFT I FGAI [†]

Finish	Part#
Chrome	550-0781A
Black	550-0780A

GRAND NATIONAL® 2:2 EXHAUST SYSTEM FOR 2018—'19 HD® STREET BOB®, LOW RIDER, SLIM, FAT BOB, & DELUXE MODELS — STREET LEGAL**

Chrome	550-0816A
Black	550-0815A

GRAND NATIONAL 2:2 EXHAUST SYSTEM FOR 2018-2020 HD STREET BOB, LOW RIDER, SLIM, FAT BOB, & DELUXE MODELS — RACE ONLY***

Chrome	550-0761
Black	550-0760

 $^{^{\}dagger}$ Exempt from emissions tampering regulations under CARB EO# K-010-4 for 2018 to 2019 Fat Bob models

WARNING: Cancer and Reproductive Harm



[#]Exempt from emissions tampering regulations under CARB EO# K-010-7 for all 2018-2019 Softail Models

^{***}DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. NOT LEGAL FOR SALE OR USE NATIONWIDE ON ANY FEDERAL POLLUTION CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT

GRAND NATIONAL® SLIP-ON MUFFLERS FOR 2018–2020 HD® FAT BOB® MODELS

FITMENT

• 2018—2020 Harley-Davidson® Fat Bob® Models

FEATURES AND BENEFITS

- Up to 12% more horsepower and 6% more torque (when used with Stealth Air Cleaner Kit)
- Race inspired design
- Ceramic black finish
- Deep performance rumble replaces stock whisper tone
- No mapping required SAE J2825 sound level compliant
- Removable dB reducer
- Made in USA!



Removable dB reducer



GRAND NATIONAL® SLIP-ON MUFFLERS FOR 2018-2020 HD® FAT BOB® MODELS

Description	Part #
Black	550-0734

^{*}Qualified manufacturer declared U.S. 50-State legal emissions replacement part on all MY 2018-2020 Fat Bob models.

WARNING: Cancer and Reproductive Harm



GRAND NATIONAL® SLIP-ON MUFFLERS FOR 2018–2020 HD® SOFTAIL® MODELS (EXCEPT FAT BOB®, SPORT GLIDE®, & FXDR MODELS)

FITMENT

• Fits 2018—2020 HD® Softail® Street Bob®, Low Rider®, Slim®, Fat Boy®, Breakout®, Heritage Classic & Deluxe® models

FEATURES AND BENEFITS

- Race inspired Grand National endcap design
- Show chrome or ceramic black finish
- All hardware and gaskets included
- Deep performance rumble replaces stock whisper tone
- SAE J2825 sound level compliant
- Removable dB reducer included (Race only version)
- Made in USA!



GRAND NATIONAL® MUFFLERS FOR 2018-'19 M8 HD® SOFTAIL® MODELS — STREET LEGAL*

Fitment	Muffler Body Finish	Part #
M8 HD Softail models: Street Bob®, Low Rider®, Slim®, Fat Boy® & Breakout® models	Black	550-0754A
M8 HD Softail models: Street Bob, Low Rider, Slim, Fat Boy & Breakout models	Chrome	550-0755A
M8 HD Heritage Softail Classic & Softail Deluxe models	Chrome	550-0757A

GRAND NATIONAL MUFFLERS FOR 2018-2020 M8 HD° SOFTAIL° MODELS — RACE ONLY††

M8 HD Softail models: Street Bob®, Low Rider®, Slim®, Fat Boy® & Breakout® models	Black	550-0737
M8 HD Softail models: Street Bob, Low Rider, Slim, Fat Boy & Breakout models	Chrome	550-0738
M8 HD Heritage Softail Classic & Softail Deluxe models	Chrome	550-0740

*Exempt from emissions tampering regulations under CARB EO# K-010-6 for all 2018-2019 Breakout, Fat Boy, Low Rider, Slim, Street Bob, Deluxe, and Heritage Classic Softail Models
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MARNING: Cancer and Reproductive Harm



SLASH CUT SLIP-ON MUFFLERS FOR 2018–2020 HD® SOFTAIL® MODELS (EXCEPT FAT BOB®, SPORT GLIDE®, & FXDR MODELS)

FITMENT

• Fits 2018—2020 HD® Softail® Street Bob®, Low Rider®, Slim®, Fat Boy®, Breakout®, Heritage® & Classic® models

FEATURES AND BENEFITS

- Classic Slash Cut styling
- Show chrome or céramic black finish
- All hardware and gaskets included
- Deep performance rumble replaces stock whisper tone
- SAE J2825 sound level compliant
- Removable dB reducer included (Race only version)
- Made in USA!

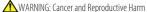




SLASH CUT MUFFLERS FOR 2018-'19 HD° SOFTAIL° MODELS — STREET LEGAL†

SLASH COT MOFFLERS FOR 2018- 19 HD SOFTAIL MODELS - STREET LEGE	IL.	
Fitment	Muffler Body Finish	Part #
M8 HD Softail models: Street Bob®, Low Rider®, Slim®, Fat Boy® & Breakout® models	Black	550-0752A
M8 HD Softail models: Street Bob, Low Rider, Slim, Fat Boy & Breakout models	Chrome	550-0753A
M8 HD Heritage Softail Classic & Softail Deluxe models	Chrome	550-0756A
SLASH CUT MUFFLERS FOR 2018–2020 M8 SOFTAIL® MODELS — RACE ONLY	1	
M8 HD Softail models: Street Bob®, Low Rider®, Slim®, Fat Boy® & Breakout® models	Black	550-0735
M8 HD Softail models: Street Bob, Low Rider, Slim, Fat Boy & Breakout models	Chrome	550-0736
M8 HD Heritage Softail Classic & Softail Deluxe models	Chrome	550-0739

†Exempt from emissions tampering regulations under CARB EO# K-010-6 for all 2018-2019 Breakout, Fat Boy, Low Rider, Slim, Street Bob, Deluxe, and Heritage Classic Softail Models ††DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on any EPA pollution controlled motor vehicle.





Indian® Models

EC SLIP-ON MUFFLERS FOR 2018-2020 HD SOFTAIL MODELS (FOR EUROPE)

FEATURES & BENEFITS

- EC approved with S&S performance and style
 Race-inspired Grand National® endcap design or the classic slash cut design complements any bike style
- Show chrome or ceramic black finish
- 82mm can with perforated stainless steel baffle and Race TEX cartridge packing
- All hardware and gaskets included
- Made in USA



GRAND NATIONAL® EC SLIP-ON MUFFLERS FOR 2018 M8 HD® SOFTAIL® MODELS

M8 Softail® Street Bob®, Low Rider®, Slim®, Fat Boy® & Breakout® models	Black	550-0824
M8 Softail® Street Bob, Low Rider, Slim®, Fat Boy & Breakout models	Chrome	550-0825
M8 Softail® Heritage Classic & Deluxe® models	Chrome	550-0826

EU Type-Approval: e9*134/2014*2018/295H*11028*00

SLASH CUT EC SLIP-ON MUFFLERS FOR 2018 M8 HD° SOFTAIL° MODELS

M8 Softail® Street Bob®,	Low Rider®, Slim®, Fat Boy® & Breakout® models	Black	550-0821
M8 Softail® Street Bob, I	ow Rider, Slim, Fat Boy & Breakout models	Chrome	550-0822
M8 Softail® Heritage®/D	eluxe® models	Chrome	550-0823

EU Type-Approval: e9*134/2014*2018/295H*11027*00



EC GRAND NATIONAL® SLIP-ON MUFFLERS FOR 2018–2020 M8 HD® FAT BOB® SOFTAIL® MODELS (FOR EUROPE)

FEATURES AND BENEFITS

- EC approved with S&S performance & style Race-inspired Grand National® endcap design
- High temperature ceramic black finish
- 100mm can with perforated stainless steel baffle & Race TEX cartridge packing
- dB reducer included
- All hardware and gaskets included



8® MODELS

Description	Part#
Black	550-0827

EU Type-Approval: e9*134/2014*2018/295G*11029*00



FEATURES AND BENEFITS

- EC approved with S&S performance and style
- Bold 4.5" design with stainless steel baffle and Race TEX cartridge packing Choose from S&S Thruster or Tracer endcap designs in chrome or black
- Performance 2.5" stainless steel perforated baffle
- Made in USA!

Mk45 EC 4.5" SLIP-ON MUFFLERS FOR 2017-2020 TOURING MODELS

Muffler Body Finish Endcap Finish & Style		Part #
	Chrome Thruster	550-0861
Chrome	Black Highlight Machined Thruster	550-0860
chrome	Chrome Tracer	550-0864
	Black Highlight Machined Tracer	550-0863
Black	Black Highlight Machined Thruster	550-0862
DIdCK	Black Highlight Machined Tracer	550-0865

EU Compliant per 11032 G

EC-Type Approval for non-original motorcycle noise abatement device



REPLACEMENT PARTS: SEE PAGE 37



Chrome with Chrome Thruster



Chrome with Machined Thruster



Chrome with Chrome Tracer



Chrome with Machined Tracer



Black with Machined Thruster



Black with Machined Tracer

STEALTH TRIBUTE AIR CLEANER KITS CLASSIC DESIGN—STEALTH FITMENT

Conceived by S&S founder and brought to market by his son George B. Smith, the Classic Two Throat carb and matched air cleaner served as a performance milestone in the v-twin space for over a decade. Inspired by the unique style of our Two Throat intake, S&S has created the new "Tribute" air cleaner cover and wrapped it around our proven Stealth filter system creating a classic look combined with modern performance.







FITMENT

- 2017—2020 Harley-Davidson® models with Milwaukee-Eight® engine
 Works with Screamin' Eagle® 64mm throttle body

FEATURES AND BENEFITS

- Use with any S&S Stealth cover (see pagepage 23)
 Use with your stock Harley-Davidson Milwaukee-Eight engine air cleaner cover
 (Adapter required see below)
 High flow (1" taller) filter kit available (P/N 170-0127)
- Backplate made from high-strength advanced synthetic polymer—reduces heat transfer to intake air Cooler, denser air allows for more efficient cylinder fill and better performance Included actuator cover—hides TBW servo motor for a clean, attractive installation

- Exempt from emissions tampering regulations under CARB EO# D-355-27 for all fuel injected models



Description	Part #
Carbon Fiber Teardrop plus Stealth Kit (170-0354B)	170-0498A
Chrome Teardrop plus Stealth Kit (170-0354B)	170-0524A±
Gloss Black Teardrop plus Stealth Kit (170-0354B)	170-0525A
Chrome Mini Cover plus Stealth Kit (170-0354B)	170-0435B±
Gloss Black Mini Cover plus Stealth Kit (170-0354B)	170-0436B
Chrome Airstream cover plus Stealth Kit (170-0354B)	170-0390B±
Gloss Black Airstream cover plus Stealth Kit (170-0354B)	170-0397B
Tri-Spoke cover plus Stealth Kit (170-0354B)	170-0392B
Torker cover plus Stealth Kit (170-0354B)	170-0393B
Air 1 cover plus Stealth Kit (170-0354B)	170-0394B
KIT ONLY — NO COVER	
Stealth Air Cleaner Kit for Stock M8 and 64mm throttle body	170-0354B
Adapter for Stock M8 Air Cleaner Cover	170-0352



Exempt from emissions tampering regulations under CARB EO# D-355-27 for all fuel injected models *WARNING: Cancer and Reproductive Harm



The S&S Stealth air cleaner backplate in this kit is made from the same high-strength advanced synthetic polymers used in high performance automotive intake manifolds and high-end handgun bodies! This material offers superior mechanical properties, thermal stability, and chemical resistance. Designed to reduce heat transfer to the intake air for more efficient induction.



EC STEALTH AIR CLEANER KITS (FOR EUROPE)

- 2018—'19 M8 Softail® models (e9 11026G)
- 2017—'19 M8 touring models

EC STEALTH AC KITS

2018–'19 M8 Softail® models cover sold separately	170-0521
2017—'19 M8 touring models cover sold separately	170-0521







IR CLEANER COVERS (ONLY)













Teardrop

Carbon Fiber

Mini in Gloss Black

Tri-Spoke

Torker

Air 1











Airstream in Chrome

Airstream in Gloss Black

Muscle in Chrome

Muscle in Gloss Black

STEALTH COVERS

Teardrop		Teardrop—Sla	sher	Carbon Fiber	Mini		Tri-Spoke	Torker	Air 1
Chrome	Gloss Black	Chrome	Gloss Black	Black	Chrome	Gloss Black	Gloss Black w/Highlights	Gloss Black w/Highlights	Gloss Black w/Highlights
170-0530	170-0531	170-0532	170-0533	170-0501	170-0367	170-0366	170-0210	170-0206	170-0214

Airstream		Muscle		Displacement		
Chrome	Gloss Black	Chrome	Gloss Black with Highlighted Logo	111	124	143
170-0118	170-0396	170-0121	170-0463	170-0319	170-0321	170-0323



124" & 128" BIG BORE KITS

- FITMENT:
 2017–2020 touring models
 2018–2020 Softail® models

FEATURES AND BENEFITS:

- 107" to 124" Big Bore Kit
 114" to 128" Big Bore Kit
 114" & 117" CVO™ to 128" Big Bore Kit
- 4.250" bore
- Forged pistons
- 11.1 compression ratio
- Wrinkle black or black granite finish
- Available with or without highlighted fins
- Bolt-on kit *No machining required*
- Includes gaskets & hardware

SPECS FOR 124" & 128" BIG BORE KITS					
Displacement	Bore	Stroke	Piston Type	Compression Ratio	
124"	4.250	4.375	Forged	11.1	
128"	4.250	4.5	Forged	11.1	

124" & 128" BIG BORE KITS FOR 2017-2020 TOURING MODELS & 2018-2020 SOFTAIL® MODELS

Displacement	Finish	Part#	
124"	Wrinkle Black with Non-Highlighted Fins	910-0681	
124"	Wrinkle Black with Highlighted Fins	910-0625	
	Wrinkle Black with Non-Highlighted Fins	910-0685	
128"	Wrinkle Black with Highlighted Fins	910-0684	
	Black Granite with Highlighted Fins	910-0733	

DISCLAIMER: FOR CLOSED COURSE COMPETITION USE ONLY. NOT INTENDED FOR STREET USE. LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES WHICH MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR USE, UPON A HIGHWAY. NOT LEGAL FOR SALE OR USE NATIONWIDE ON ANY FEDERAL POLLUTION CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT.



BIG BORE CYLINDERS

FITMENT:

- 2017-2020 touring models
- 2018–2020 Softail® models

FEATURES AND BENEFITS:

• 4.250" Bore

Piston Ring Set

HARDWARE KIT

- Wrinkle black or black granite finish
- Available with or without highlighted fins

CYLINDER SETS

Finish	Part #
Wrinkle Black with Non-Highlighted Fins	910-0683
Wrinkle Black with Highlighted Fins	910-0682
Black Granite with Highlighted Fins	910-0739

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BIG BORE PISTON KITS

2 Pack 940-0060

910-0677

Piston kits include set of pistons, rings, wristpins, and clips





4.250" BORE PISTON KIT FOR M8 MODELS

Displacement	Deck Height	Stroke	Standard	+.010
124"	1.143"	4.375"	920-0135	920-0141
128"	1.0805"	4.500"	920-0140	920-0142

DISCLAIMER: FOR CLOSED COURSE COMPETITION USE ONLY. NOT INTENDED FOR STREET USE, LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES WHICH MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR USE, UPON A HIGHWAY. NOT LEGAL FOR SALE OR USE NATIONWIDE ON ANY FEDERAL POLLUTION CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT.

REPLACEMENT PARTS FOR PISTONS

riston King Set	21000	940-0000		
Piston +.010" Ring Set	2 Pack	940-0062	Models ————	-
Wristpin Keeper		94-9278-S	a U I I I I I I I I I I I I I I I I I I	
Wristpin, .927" x 2.500"		940-0037		
GASKET KIT			Shop Supplie	Tools &
Description		Part#		
Head gasket, 4.250" Bore, Stock bolt pattern	2 Pack	930-0140	8008	Warrant
Base gasket, Stock to 4.250" Bore, Stock bolt pattern	2 Pack	930-0139		nty &
Gasket Kit, includes Head Exhaust, 4.25" Bore	, Base, &	900-0955		- >
Plug		500-0835	nde x	Appendi
Cylinder Dowel Pin	4 Pack	500-0849		ndi

124" POWER PACKS



107" TO 124" BIG BORE KIT:

- Available with or without fin highlighting Bolt-on kit — No case machining required
- 4.250" bore
- Forged pistons

• 11.1 Compression ratio

OIL PUMP/CAM PLATE:

- Precision machined from billet aluminum
- Passage plugs removable for servicing

- Independent scavenge sections for flywheel cavity and cam chest
 Debris screens in both scavenge pickups
 Magnet in cam chest to help to stop debris from entering oil pump
 44% flow increase on supply side & 58% flow increase on scavenge side
 Pressure relief valve is adjustable with unit installed in engine
- Kits now include updated oil pump with groove for optional OEM oil seal

PUSHRODS:

- Ouickee pushrods
- Chrome or gloss black pushrod tubes available

TAPPETS:

• S&S Precision Tappets

TAPPET CUFFS:

- Hard anodized black coating
- Billet aluminum construction
- · Stronger than stock material eliminates distortion
- Improve tappet stability in high lift & high rpm situations

CAM:

- S&S 550 cam—Designed for big bore applications
 Available in both gear drive & chain drive variations
 Gear drive kits provide improved cam timing accuracy & eliminate stock chain tensioner
- Gear drive kits include outer drive gears

VALVE SPRINGS:

- Works well with cams up to .605 lift
- High performance conical single wire spring
- Includes top collars, keepers, & valve seals/bottom collars

124" POWER PACKAGE KIT FOR 2017 TOURING MODELS & ALL 2018–2020 HD® MODELS WITH 107" ENGINE

Cooling System	Finish	Drive	Pushrod Tubes	Part #	
Oil	Wrinkle Black with Highlighted Fins	Chain	Chrome	310-1052A	
Oil	Wrinkle Black with Highlighted Fins	Gear	Chrome	310-1053A	
Oil	Wrinkle Black with Highlighted Fins	Chain	Black	310-1056A	
Oil	Wrinkle Black with Highlighted Fins	Gear	Black	310-1058A	
0il	Wrinkle Black with Non-Highlighted Fins	Chain	Black	310-1057A	
Oil	Wrinkle Black with Non-Highlighted Fins	Gear	Black	310-1059A	
Water	Wrinkle Black with Highlighted Fins	Chain	Chrome	310-1050A	
Water	Wrinkle Black with Highlighted Fins	Gear	Chrome	310-1051A	
Water	Wrinkle Black with Highlighted Fins	Chain	Black	310-1054A	
Water	Wrinkle Black with Highlighted Fins	Gear	Black	310-1055A	

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114" TO 128" BIG BORE KIT & 114" & 117" CVO TO 128" BIG BORE KIT:

- Wrinkle black or black granite finish
- · Available with or without fin highlighting for wrinkle black
- Bolt-on kit No case machining required
- 4.250" Bore
- Forged pistons
- 11.1:1 Compression ratio

OIL PUMP/CAM PLATE:

- Precision machined from billet aluminum
- Passage plugs removable for servicing
- Independent scavenge sections for flywheel cavity & cam chest
- Debris screens in both scavenge pickups
- Magnet in cam chest to help to stop debris from entering oil pump
- Increased flow capacity on both feed & scavenge side
- Pressure relief valve is adjustable with unit installed in engine
- Kits now include updated oil pump with groove for optional OEM oil seal

PUSHRODS:

Quickee pushrods with chrome covers

TAPPETS:

S&S Precision Tappets

TAPPET CUFFS:

- · Hard anodized black coating
- Billet aluminum construction
- Stronger than stock material eliminates distortion
- Improve tappet stability in high lift & high rpm situations

CAM:

- S&S 550 cam—Designed for big bore applications
- Available in both gear drive & chain drive variations
- Gear drive kits provide improved cam timing accuracy & eliminate stock chain tensioner
- Gear drive kits include outer drive gears

VALVE SPRINGS:

- Work well with cams up to .605 Lift
- High performance conical single wire spring
- Includes top collars, keepers, & valve seals/bottom collars

128" POWER PACKAGE KIT FOR 2017–2020 M8 MODELS WITH 4.500" STROKE

120 TOWERT ACRAGE RITTOR 2017 2020 Mio MIODELS WITH 4.500 STROKE					
Cooling System	Finish	Drive	Part #		
Water	Wrinkle Black with Highlighted Fins	Chain	310-1101A		
Water	Wrinkle Black with Highlighted Fins	Gear	310-1102A		
Oil	Wrinkle Black with Highlighted Fins	Chain	310-1103A		
Oil	Wrinkle Black with Highlighted Fins	Gear	310-1104A		
Oil	Wrinkle Black with Non-Highlighted Fins	Chain	310-1105A		
Oil	Wrinkle Black with Non-Highlighted Fins	Gear	310-1106A		
Water	Black Granite with Highlighted Fins	Chain	310-1107A		
Water	Black Granite with Highlighted Fins	Gear	310-1108A		
Oil	Black Granite with Highlighted Fins	Chain	310-1109A		
Oil	Black Granite with Highlighted Fins	Gear	310-1110A		

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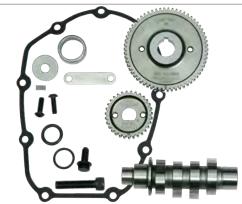
CAM KITS

FITMENT

• 2017–2020 touring and 2018–2020 M8 models

FEATURES AND BENEFITS

- 465C chain drive and 465G gear drive cams both provide increased torque and horsepower
- 350G gear drive cam has stock specs, but eliminates cam drive chain and tensioner
- Kits include all required bearings, o-rings and hardware
- Gear drive cams provide improved valve timing accuracy
- Made in the USA





CHAIN DRIVE CAMSHAFTS FOR 2017-2020 HD® MODELS WITH M8 ENGINE

Description	Part #
465C	330-0620
475C	330-0641
550C	330-0643

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. NOT LEGAL FOR SALE OR USE NATIONWIDE ON ANY FEDERAL POLLUTION CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT

GEAR DRIVE CAMSHAFTS FOR 2017-2020 HD® MODELS WITH M8 ENGINE

Description	Part#
350G - Stock	330-0625
465G	330-0624
475G	330-0645
550G	330-0647

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. NOT LEGAL FOR SALE OR USE NATIONWIDE ON ANY FEDERAL POLLUTION CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT

REPLACEMENT PARTS

Description	Part #
Cam Cover Gasket	310-0911
Pinion Gear	330-0622
Undersized Pinion Gear	330-0626
Oversized Pinion Gear	330-0627
Cam Gear Drive	330-0621

CAMSHAFT INSTALLATION KITS FOR M8 2017–2020 M8 MODELS

Description	Part #
Chain Drive Installation Kit	330-0619
Gear Drive Installation Kit	330-0623

REPLACEMENT PARTS: SEE PAGE 48

S&S° CAMSHAFT SPECIFICATIONS											
		Valve Timing		Valve Duration		Valve Lift		Lobe Center Line		Valve Lift @ TDC	
Cam Name	Cylinder	Intake	Exhaust								
Can Name	cymiaci	Open BTDC/ Close ABDC	Open BBDC/ Close ATDC	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust
350G Stock Grind Gear Drive	Both	-7.0/1.0	33.0/-14.0	174.0	199.0	.350	.374	94.0	113.5	.057	.048
ACE Douboumous so	Front	2.6/14.6	30.1/8.8	197.2	218.9	.462	.462	96.0	100.6	.087	.109
465 Performance	Rear	2.8/14.4	33.1/5.8	197.2	218.9	.462	.462	95.8	103.6	.088	.098
475 UD	Front	6.2/27.2	55.5/28.5	213.5	263.9	.475	.475	100.5	103.5	.107	.208
475 HP	Rear	2.2/31.2	52.5/20.2	213.5	252.5	.475	.475	104.5	106.0	.093	.170
550 D: D	Front	9.4/29.4	62.5/30.5	218.9	273.1	.550	.550	100.0	106.0	.127	.232
550 Big Bore	Rear	3.1/31.1	59.4/38.4	214.2	277.8	.550	.550	104.0	100.5	.099	.264

CAM PLATE & OIL PUMP KITS

FITMENT

2017—2020 M8 models

CAM PLATE

- Precision machined from billet aluminum
- Passage plugs removable for servicingBronze bushings for better lubrication & improved wear characteristics
- Made in USA

OIL PUMPS

- Kits now include updated oil pump with groove for optional OEM oil seal
- Precision machined from billet aluminum
- Independent scavenge sections for flywheel cavity and cam chest
- Debris screens in both scavenge pickups
- Magnet in cam chest to help prevent debris from entering pump Increased flow capacity on both feed and scavenge side Pressure relief valve can be adjusted with unit in engine
- - Made in USA

KITS

• Buy together and save \$\$

CAM PLATE & OIL PUMP KITS FOR M8 MODELS

Description	Part#
Cam Plate & Oil Pump/Water-Cooled	310-0997B
Cam Plate & Oil Pump/Oil-Cooled	310-0998B
CAM PLATE ONLY	310-0939A
OIL PUMP ONLY	
Description	Part#
Water-Cooled	310-0947A
Oil-Cooled	310-0959A



CAM CHEST KITS

FITMENT

- 2017—2020 touring models
- 2018—2020 Harley-Davidson® Softail® models

OIL PUMP/CAM PLATE:

- Precision machined from billet aluminum
- Passage plugs removable for servicing
- Independent scavenge sections for flywheel cavity and cam chest
- Debris screens in both scavenge pickups
- Magnet in cam chest to help to stop debris from entering oil pump
 44% flow increase on supply side and 58% flow increase on scavenge
 Pressure relief valve is adjustable with unit installed in engine
- Kits now include updated oil pump with groove for optional OEM oil seal

PUSHRODS:

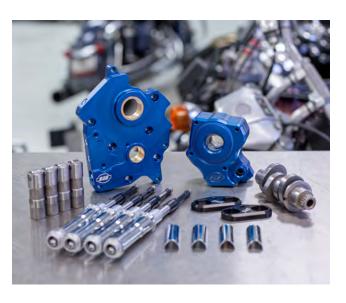
- Quickee Pushrods
- Chrome or Gloss Black pushrod tubes available

TAPPETS:

• S&S Precision Tappets

TAPPET CUFFS:

- Hard anodized black coating
- Billet aluminum construction
- Improve tappet stability in high lift and high rpm situations



CAM:

- S&S 465 or 475 cam
- 465 is a torque cam—perfect for touring applications
- 475 is a bolt-in 100hp cam!
- Available in both gear drive and chain drive variations
- Gear drive kits provide improved cam timing accuracy and eliminate the stock cam chain tensioner

INCLUDES ALL GASKETS, BEARINGS, AND HARDWARE REQUIRED FOR INSTALLATION • MADE IN USA

CAM CHEST KITS FOR 2017-2020 TOURING MODELS & 2018-2020 SOFTAIL® MODELS

Cooling system	Cam	Pushrods	Part#
	Chain Drive 550C	Chrome	310-1082A
	Chain Drive 475C	Chrome	310-1004A
	Chain Drive 465C	Chrome	310-1003A
	Gear Drive 550G	Chrome	310-1083A
Oil Cooled	Gear Drive 475G	Chrome	310-1006A
on cooled	Gear Drive 465G	Chrome	310-1005A
	Chain Drive 475C	Black	310-1012A
	Chain Drive 465C	Black	310-1011A
	Gear Drive 475G	Black	310-1014A
	Gear Drive 465G	Black	310-1013A
	Chain Drive 550C	Chrome	310-1080A
	Chain Drive 475C	Chrome	310-1000A
	Chain Drive 465C	Chrome	310-0999A
	Gear Drive 550G	Chrome	310-1081A
Water Cooled	Gear Drive 475G	Chrome	310-1002A
water cooled	Gear Drive 465G	Chrome	310-1001A
	Chain Drive 475C	Black	310-1008A
	Chain Drive 465C	Black	310-1007A
	Gear Drive 475G	Black	310-1010A
	Gear Drive 465G	Black	310-1009A

TAPPET CUFFS

Factory tappet guides are constructed of plastic and are at risk for allowing the tappets to twist under heavy stress. S&S Tappet Cuffs capture the tappets without impacting vertical motion and keep them perfectly aligned, even in high stress, high RPM situations

FITMENT

- 2017–2020 touring models
- 2018–2020 HD Softail® models

FEATURES AND BENEFITS

- Hard anodized black coating
- Billet aluminum construction
- Stronger material eliminates distortion
- Improve tappet stability in high lift and high rpm situations
- An easy upgrade when changing tappets or doing a cam change

TAPPET CUFFS

1701 1 21 401115	
Fitment	Part #
2017–2020 HD® touring models 2018–2020 HD Softail® models	330-0655







PRECISION TAPPETS

High performance tappets are a cornerstone of the S&S line up and we are always looking to improve our products. After months of research and countless hours of testing we are excited to reveal the latest in performance tappets. The S&S Cycle Precision Tappets replace both our standard as well as premium tappets. Each Precision Tappet is hand assembled to exacting tolerances and designed for quiet operation and rapid pump up and all are made in the USA.

FITMENT

• 2017—2020 big twins with Milwaukee-Eight® engine

PRECISION TAPPETS	
Set of 4 tappets	330-0718

FEATURES

- Reduced valve train noise from start up to shut down
- Close tolerances for low leak down rates
- Fast pump up and superior high rpm performance



QUICKEE ADJUSTABLE PUSHRODS

• 2017—2020 big twins with Milwaukee-Eight® engine

FEATURES AND BENEFITS

- Adjustable to accommodate all tappets and cam base circle diameters and engine heights
 Easy to install removal of rocker arms not needed
 No threads on wrench flats

KIT CONTENTS

• Pushrods, gloss black or chrome pushrod covers, o-rings, and cover keepers

GLOSS BLACK ALSO AVAILABLE



QUICKE	E ADJ	USTABL	LE PUSHRODS	;
--------	-------	---------------	-------------	---

Pushrods Only	93-5122
Chrome Pushrod Kit (includes chrome pushrod covers, o-rings, & cover keepers)	930-0123 [±]
Gloss Black Pushrod Kit (includes black pushrod covers, o-rings & cover keepers)	930-0137
Description	Part #

PUSHROD COVER / KEEPER SET FOR 2017-2020 BIG TWINS WITH THE M8 ENGINE

Description		Part#	
Pushrod Cover Kit (includes top & bottom covers,	Gloss Black	930-0124	0
cover cap, cover spring, spring washer, & o-rings for four pushrods)	Chrome	106-1340±	
Pushrod Cover Keeper Kit (2.200")	Gloss Black	930-0138	
	Chrome	930-0129	











S&S quickee pushrods require S&S aftermarket tubes.

Appendix &

VALVE SPRINGS

FEATURES AND BENEFITS

- Works with cams up to .605" lift
- High performance conical single wire spring
- Kit includes: springs, top collars, keepers, valve seal/bottom collar

VALVE SPRING KIT

Description	Part #
Valve Spring Kit for M8 2017—2020 Models	900-0958



REPLACEMENT PARTS FOR VALVE SPRING KITS				
Description		Part #		
Valve Keeper		900-0956		
Top Collar		900-0952		
Valve Stem Oil Seal, Hat Style, 6mm, M8 models	8 pack	900-0959		



FEATURES AND BENEFITS

- 14% increase in strength over stock
- Heat treated 8640 steel
- 200,000 psi ultimate tensile strength
- Durable black oxide coating
- %6" 12 point head with integral washer
- Formed threads
- · Cold formed head
- Compatible with both MLS & graphite head gaskets
- Reusable

HEAD BOLTS

Description	Part#
Sold as set of 8	900-1006





ROCKER ARM STUD KIT

FEATURES AND BENEFITS

- Extend the life of your cylinder heads
- Prevent damage to rocker arm towers
- Install studs and safely re-torque nuts
- Black oxide finish
- 12 pt nuts

ROCKER ARM STUD KIT

2 1 4 6 110	
Rocker Arm Stud Kit	900-1013
for M8 2017–2020 Models	300-1013



GASKETS

GASKETS

Cam Cover		310-0911
Eulasust Caelista	each	106-5029
Exhaust Gaskets	10 pack	93-1072
Head gasket, 4.25" Bore, Stock bolt pattern	2 pack	930-0140

Base gasket, Stock to 4.250" Bore, Stock bolt pattern	2 pack	930-0139
Gasket Kit, includes Head, Base, & Exhaust, 4.250" Bore		900-0955
O-ring kit, Oil Pump		500-0850

S&S® OIL

FEATURES AND BENEFITS

- Ultimate protection
- Superior lubrication for reduced engine wear and lower oil temperatures
- Provides consistent viscosity and resists thermal breakdown and oxidation at elevated temperatures
- Includes an oil drain plug o-ring for convenience

S&S® OIL CHANGE KIT

Description	Part #
2017—2020 Harley-Davidson® models with Milwaukee-Eight® engine 5 quarts of SAE 20W-50 synthetic engine oil with chrome oil filter	3601-0492

S&S® OIL

Part #
3601-0407
3601-0408
3603-0044
3604-0007



OIL FILTERS

FEATURES AND BENEFITS

- Captures smaller particles than stock filters
- Low restriction to oil flow
- Direct bypass bypass oil does not pass over dirty filter media Smaller diameter for easier installation
- Black or chrome finish

S&S® OIL FILTERS

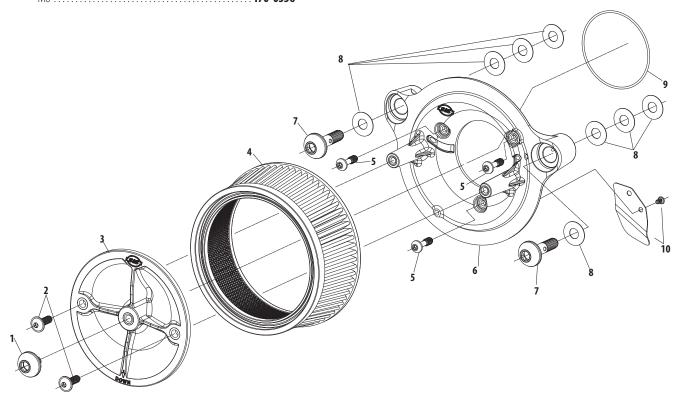
Year Application	Micron Rating	QTY	Chrome	Black
1000 117* Tuin Com 000/0/IM/102IM and Millionibae Finham and including	10	each	31-4104A	31-4103A
1999–'17* Twin Cam 88®/96™/103™ and Milwaukee-Eight® engines	10μ	12 pack	310-0242	310-0241

^{*}Contains an anti-drain back valve



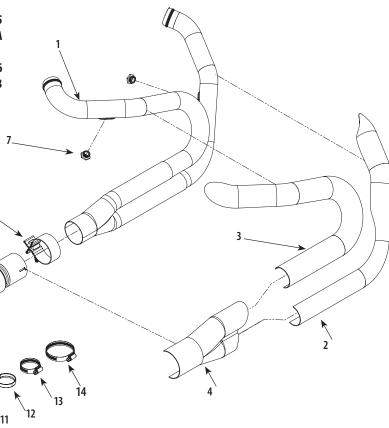
STEALTH AIR CLEANER KIT REPLACEMENT PARTS INCLUDING EC VERSIONS

1.	Screw, SHCB, 5/6-18 x .500", Polished, Stainless Steel 170-0508
2.	Screw, SHC, Flanged Button, 1/4-20 UNC x .750" (Each) 500-0060
3.	Plate, Top, Air Filter, Molded, Plastic
4.	Filter, Air, Tapered, Standard Pleated,
	5.500" x 6.000" x 2.375", Cotton
5.	Screw, SHCB, 14–20 UNC X .825" (Each) 3 required
6.	Backplate, Air Cleaner, Throttle by Wire, Stock Bore, Injection Molded
	Polymer, M8
	EC Backplate
7.	Screw, Backplate Vent, SHCB, %-16 x 1-1/2",
	Polished, Stainless Steel (Each) 2 required
8.	Washer, Flat, .380" x .880" x .024", Nitrile Rubber Coated, Cold Rolled
	Steel(8 pack)
9.	O-ring, 2.75" ID x 2.875 OD, X 1/16" Buna, (-039) 50-8207-S
10.	Cover, Kit, Electrical Plug, Throttle by Wire, Aluminum,
	M8



	Pipe, Header, Super Street, 2 into 1, Weldment, 20		7.	Adapter, Oxygen Sensor, 12mm to 18mm,	
	Standard Chassis			Stainless Steel	
	Fat Boy, FXDR & Breakout	551-1050±	8.	Muffler clamp, band style	
	Front Shield (Standard Chassis)		9.	Screw	
	Black	551-0764		Screw	
	Chrome	551-0766 [±]	11.	Nut, HSFH, 5/16-24 UNF-2B x . 283", Zinc, Ste	el <i>759</i> 3 50-502
	Front Shield (Fat Boy, FXDR & Breakout)			Gasket, Exh, Tapered, Stainless Steel 65324-838	
	Black	551-1057	13.	Clamp, Hose, Worm Drive, SAE #20	551-0
	Chrome	551-1060±	14.	Clamp, Hose, Worm Drive, SAE #40	551-04
	Rear Shield (Standard Chassis)		16.	Plate, Nut, 5/16-18 x 2", Clear, Zinc	551-0-
	Black	551-0769	17.	Screw, BHC, High Temp Lock Patch, 1/4-20	x 3/8",
	Chrome	551-0771 [±]		Stainless Steel	500-04
	Rear Shield (Fat Boy, FXDR & Breakout)		18.	Endcap, SuperStreet, Black	
	Black	551-1055		Bracket, Bag Mount, (Standard Chassis)	
	Chrome.			Screw, BHC, 5/16–18 x 5/8", Zinc Plated	
	Collector Shield			Passange Peg Bracket (Fat Boy, FXDR & Bre	
	Black	551-0774		Screw, SHC, 3/8–16 x 2–1/2", Zinc, Steel	
	Chrome.			Nut, Lock, Nylon Insert, Gr8, 3/8–16, Low (
			۷۵.	Nut, Lock, Nylon Hisert, Gro, 5/6-10, Low C	.aibuii 3leei 300-1
	Muffler—Race Only	FF1 07F0	N.	4.Ch	
	Black			t Shown:	
	Chrome	551-0/54*		Reducer	
	Muffler—Street Legal		Scr	ew, SHC 10-32 x 3/4	500-0
	Black				
	Chrome				
	Bracket	551-0734			
arc	dware Kit——Standard Chassis			/	
	Race Only (incudes #7-16 below)	551-0735			
	Street Legal (incudes #7-16 below)	551-0736A	1		
arc	dware Kit—Fat Boy, FXDR & Breakout		\ \	\ \	
	Race Only (incudes #7-16 below)	551-1066	\		
	Street Legal (incudes #7–16 below)	551-1083		0	
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	Adapter, Oxygen Sensor, 12mm to 18mm,	
	Stainless Steel	.550-0375
8.	Muffler clamp, band style	. 551-0135
9.	Screw	.500-0877
10.	Screw	.500-0763
11.	Nut, HSFH, 5/16-24 UNF-2B x .283", Zinc, Steel 7593	50-5025-9
12.	Gasket, Exh, Tapered, Stainless Steel 65324-83B, 65324-83A	.106-5029
13.	Clamp, Hose, Worm Drive, SAE #20	.551-0527
14.	Clamp, Hose, Worm Drive, SAE #40	.551-0402
16.	Plate, Nut, 5/16-18 x 2", Clear, Zinc	.551-0469
17.	Screw, BHC, High Temp Lock Patch, 1/4-20 x 3/8",	
	Stainless Steel	.500-0441
18.	Endcap, SuperStreet, Black	.551-0931
19.	Bracket, Bag Mount, (Standard Chassis)	.551-109
20.	Screw, BHC, 5/16-18 x 5/8", Zinc Plated	.500-0763
21.	Passange Peg Bracket (Fat Boy, FXDR & Breakout)	. 551-1219
22.	Screw, SHC, 3/8-16 x 2-1/2", Zinc, Steel	. 500-1206
23	Nut, Lock, Nylon Insert, Gr8, 3/8-16, Low Carbon Steel	500-1207

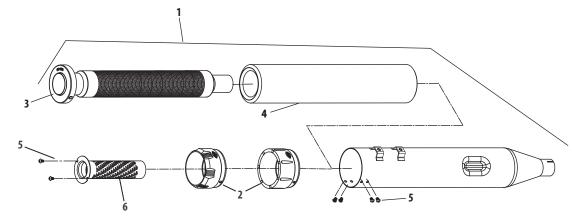


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Mk45 4.5" MUFFLER REPLACEMENT PARTS INCLUDING EC VERSION

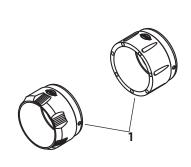
1. 4	4.5" Muffler assembly for 2017-'18 Models	
	Left, chrome	551-0149±
	Right chrome	551-0150±
	Left black	551-0151
	Right black	551-0152
2.	Endcap	
	Thruster chrome	550-0634A±
	Thruster Black Highlight Machined	550-0629A
	Tracer chrome	550-0636A±
	Tracer Black Highlight Machined	550-0632A <i>\$159.95</i>

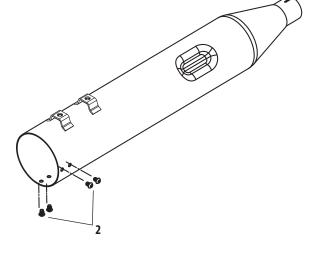
3. Main baffle assembly, 4.5" muffler for 2017-'18 Models	
Left	. 551-0007
Right	551-0138
4. Insulation, 4.5" muffler	. 551-0003
5. Button head cap screw, Stainless, ¼"-20 x ¾"	.500-0441
6. Baffle, Assembly, Muffler, SAE J2825	. 551-0026
7. Hardware kit, muffler clamp and screws (N/S)	
Left	551-0027
Right	551-0148



MK45 REPLACEMENT MUFFLER SYSTEM FOR EL DORADO M8 HIGH PERFORMANCE EXHAUST SYSTEM—STREET LEGAL

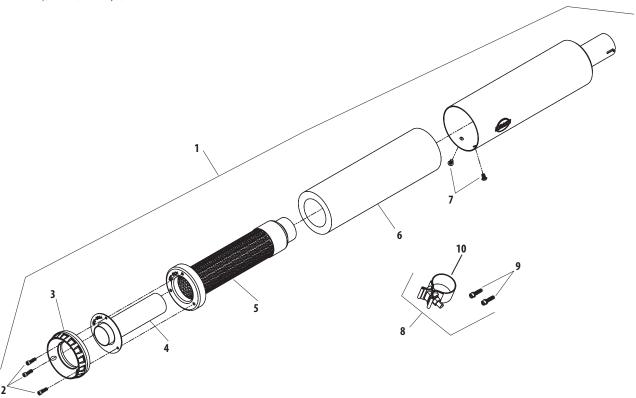
1.	Endcap	
	Thruster Black Highlight Machined	550-0629A
	Tracer Black Highlight Machined	550-0632A
2.	Button head cap screw, Stainless, ¼"-20 x ¾"	500-0441
3.	Hardware kit, muffler clamp and screws (N/S)	551-0027





GRAND NATIONAL® MUFFLER REPLACEMENT PARTS FOR 2018–2020 FAT BOB® MODELS

1.	Muffler, Grand National, Black, 2018—2020 M8 Fat Bob® Front/Rear.	551-0431
2.	Screw,Shc,High Temp Lock Patch,10-32 X ¾",	
	Stainless Steel	
3.	4" Endcap, Grand National, Black	551-0291
4.	dB Reducer Baffle Assembly	551-0063
5.	Baffle, Assembly	551-0422
6.	Fiberglass Wrap, Pillow, 12" X 13"	551-0276
7.	Screw, BHC, High Temp Lock Patch, 1/4–20	500-0441
8.	Hardware Kit, Muffler, 2018 M8 Fat Bob®	551-0425
	Screw, Shcs, W/ Flat Washer, 1/4-20 X 1",	
9.	Zinc, Astm A574–92A 4741A	50-0092-S
10.	Clamp, Muffler, Band Style, 1.75"	551-0569



GRAND NATIONAL® MUFFLER REPLACEMENT PARTS FOR 2018–'19 SOFTAIL® MODELS (EXCEPT FAT BOB®, SPORT GLIDE®, & FXDR MODELS)

1.	Muffler Assembly		Pai	ts Not Shown	
	M8 HD® Softail® Street Bob®, Low Rider®, Slim®, Fat	Boy® &	8.	Hardware Kit, Muffler, 2018 M8 Fat Bob®	551-0425
	Breakout® models		9.	Screw, SHCS, w/Flat Washer, 1/4-20x1" 4741A	50-0092-S
	Тор		10.	Clamp, Muffler, Band Style, 1.75"	551-0028
	Black,	551-0440	11.	Muffler Gasket	551-0360
	Chrome		12.	Bracket Cover (Exc. Heritage® Classic and Deluxe)	551-0538
	Bottom				
	Black	551-0452			
	Chrome				
	M8 Softail® Heritage® Classic and Deluxe				
	Chrome Front or Rear	551-0461 [±]			
2.	Screw, SHC, High Temp Lock Patch,			//	/ /
	10–32x3/4", Stainless Steel	500-0569		7	
3.	3.25" Endcap, Grand National, Black	551-0292			
4	dB Reducer Baffle Assembly				
5.	Baffle Assembly				
6.	Fiberglass Wrap				
7.	Screw, BHC, High Temp Lock Patch, 1/4–20				
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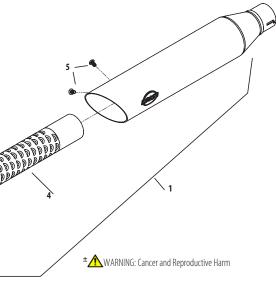
SLASH CUT MUFFLER REPLACEMENT PARTS FOR 2018–'19 SOFTAIL® MODELS (EXCEPT FAT BOB®, SPORT GLIDE®, & FXDR MODELS)

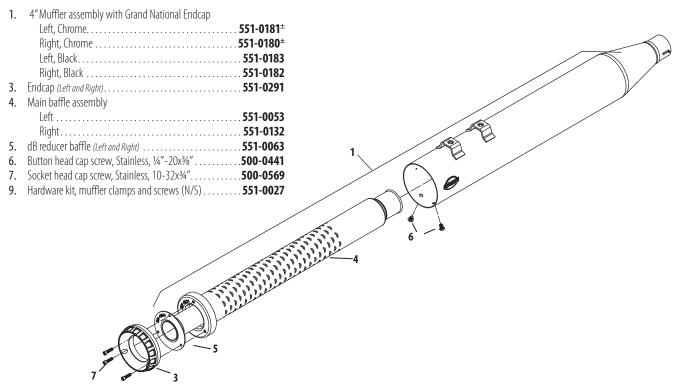
Parts Not Shown

	M8 HD® Softail® Street Bob®, Low Rider®, Slim®,	Fat Boy® &
	Breakout® models	
	Тор	
	Black	551-0434
	Chrome	551-0437 [±]
	Bottom	
	Black	551-0446
	Chrome	551-0449±
	M8 Softail® Heritage® Classic and Deluxe®	
	Chrome, Front, or Rear	551-0458±
2.	Screw, BHC, High Temp Lock Patch,	
	10-32x3/8", Stainless Steel	500-0570
3.	dB Reducer Baffle Assembly	551-0350
4.	Baffle Assembly	551-0301
5.	Screw, BHC, High Temp Lock Patch, 1/4-20	500-0441
		_

1. Muffler Assembly

6.	Hardware Kit, Muffler	551-0425
7.	Screw, SHCS, w/Flat Washer, ½-20x1" 4741A	. 50-0092-S
8.	Clamp, Muffler, Band Style, 1.75"	551-0028
	Muffler Gasket	
10.	Bracket Cover (Exc. Heritage® Classic and Deluye®)	551-0538





SLASH CUT 4" MUFFLERS REPLACEMENT PARTS

1.	4" Muffler assembly Slash Down		
	Left, Chrome	551-0185±	
	Right, Chrome	551-0184 [±]	
	Left, Black		
	Right, Black		
2.			
	Left	551-0053	
	Right		
3.	dB reducer baffle (Left and Right)		
4.	Button head cap screw, Stainless, ¼"–20x¾"		
5.	Button head cap screw, Stainless, 10–32x3%"		
6.	Hardware kit, muffler clamps and screws (N/S)		
•	natural city marries elamps and selects (iv, s), in		
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DEWINDER 2:1 EXHAUST SYSTEM REPLACEMENT PAI

1.	Muffler, Assembly, 2 Into 1, 2017-'18 M8 Touring		12	Clamp Hose Worm Dri	ive, SAE #20	551-0527	ee-Eight®
	Race, Chrome				ive, SAE #24		ligh
	Race, Black			·	ive, SAE #40		~.
	Street Legal, Chrome		15				
	Street Legal, Black				1		96
2.	Header, Assembly, Weldment, 2017-'18 M8 Touring	551-0367	10.	Endcap, Sidewinder 2.	1		96"/103"/110
3.	Shield, Front, Heat, 2017-'18 M8 Touring						3"/1
	Chrome	551-0385±					7
	Black	551-0387					
4.	Shield, Rear, Heat, 2017-'18 M8 Touring						
	Chrome	551-0391 [±]					
	Black	551-0393					
5.	Collector, Heat Shield, 2017-'18 M8 Touring						Twin Cam 88
	Chrome	551-0379±					Ca
	Black	551-0381					3
6.	Clamp, Muffler, Band Style, 2.5"	551-0135					88
7.	Nut, Flanged, Serrated, 3/8–18	500-0554					
8.	Bracket, Header Mount, 2 Into 1, Powdercoated,						Sportster & Buell
	2017-'18 M8 Touring	551-0397					rtst
9.	Clamp, Header Mount, 2 Into 1, Chrome Plate,						Ē,
	Mild Steel, 11 Gauge, 2017-'18 M8 Touring	551-0361 [±]					& □
10.	Bolt, Carriage, 3/8–16 x 1–1/4"	500-0553		~			uell
11.	Adapter, Oxygen Sensor, 12mm To 18mm,				2		•
	Stainless Steel	550-0375		11—(6)			S
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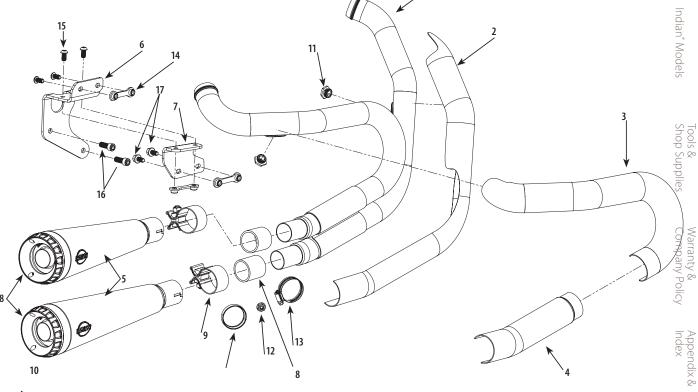


SHADOW PIPE REPLACEMENT PARTS

1.	Tube, crossover, power tune dual, formed	551-0080	
2.	Shield, left, power tune dual,		
	Chrome	551-0115±	
	Black		
3.	Nut, HSFH, 5/16-18 UNC-2b x .283", Zinc, steel		
4.	Clamp, p-style, crossover, power tune dual header,		
5.	Bolt, carriage, 5/16"–18 x 3/4"		2
6.	Hose Clamp #20 (2 req.)		
7.	Band style clamp		
			$\int_{\mathcal{L}}$
8.	Endcap	331-0394	,
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GRAND NATIONAL® 2:2 EXHAUST SYSTEM REPLACEMENT PARTS

1.	Pipe, Header, 2 into 2, Weldment, M8 Softail except Fat Boy", and Breakout"	EE1 0E47
2		. 55 1-054/
2.	Front Shield,	EE1 0EE1
	Black	
3.	Rear Shield.	221-0222
٥.	Black	EE1 0EE7
	Chrome	
4.	Lower Rear Shield,	331-0333
4.	Black	551_0661
	Chrome	
5.	Muffler Body.	221-0003
٦.	Race	
	Black	551-0474
	Chrome	
	Street Legal	JJ 1-0 - 777
	Black	551-0726
	Chrome	
6.	Bracket, Mounting, 2 Into 2, Black, M8 Softail®	
7.	Bracket, Bottom, Mounting, 2 Into 2, Black	
8.	Gasket, Muffler, 3.25", 2018 M8 Softail®	
9.	Clamp, Muffler, Band Style	
10.	Gasket,Exhaust,Tapered,Stainless Steel,	.331 0020
10.	1984-up bt, 1986-up xl	106-5029
11.	Adapter, Oxygen Sensor, 12mm to 18mm, Stainless Stee	550-0375
12.	Nut, HSFH, 5/16–18 UNC-2B x .283", Zinc, Steel	
13	Clamp, Hose, Worm Drive, SAE #20	
14	Plate, Nut, 5/16-18 x 2", Clear, Zinc	
15	Screw, BHC, 5/16–18 x 5/8", Zinc Plated	
16	Screw, SHCS, 3/8-16 x 1"	
17	Screw, Flanged, 5/16–18 x 5/8", Zinc Plated	
18.	Endcap	
	15	
	15	
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POWER TUNE® DUAL REPLACEMENT HEAFOR EL DORADO M8 HIGH PERFORMANCE EXHAUST SYSTEM—STRE

REPLACEMENT HEADER FOR EL DORADO M8 HIGH PERFORMANCE EXHAUST SYSTEM—STREET LEGAL

Finish	Part#
Chrome	550-0704
Black	550-0705

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on any EPA pollution controlled motor vehicle.

This part is emissions compliant only when used as part of a complete El Dorado exhaust package.

WARNING: Cancer and Reproductive Harm

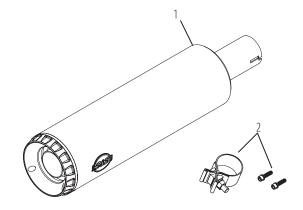


POWER TUNE® DUAL HEADER REPLACEMENT IF FOR EL DORADO M8 HIGH PERFORMANCE EXHAUST SYSTEM—STREET LEGAL

2. G 3. A 4. C 5. T 6. S 7. N 8. C 9. B 10. C 11. S Not SH Hardw	ripe, header, power tune dual, header pipe weldment it	106-5029 550-0375 551-0028 551-0129 551-0115 551-0116 500-5053-S 551-0121 500-0555 551-0124 551-0207 551-0213± 551-0214	2		
	\$ - \tag{6}	J. 0	11	1 12	

GRAND NATIONAL® EC SLIP-ON MUFFLER REPLACEMENT PARTS

1.	Muffler	
	Upper, Black,	
	Street Bob®, Low Rider®, Slim®, Fat Boy® & Breakout®	.551-0946
	Lower, Black,	
	Street Bob, Low Rider, Slim, Fat Boy & Breakout	.551-0948
	Upper, Chrome,	
	Street Bob, Low Rider, Slim, Fat Boy & Breakout	. 551-0947
	Lower, Chrome,	
	Street Bob, Low Rider, Slim, Fat Boy & Breakout	. 551-0949
	Chrome, Heritage® and Deluxe	. 551-0950
2.	Hardware Kit	.551-0425
3.	Gasket (N/S)	.551-0360

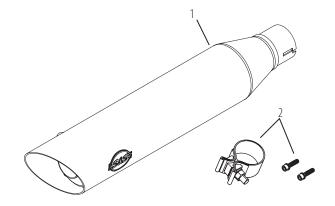


SLASH-CUT EC SLIP-ON MUFFLER REPLACEMENT PARTS

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943
942
944
945
425
360

1.

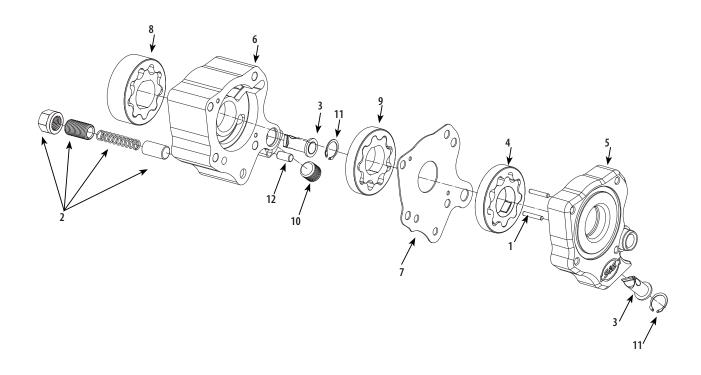
2.



S&S Late Models 1999–up

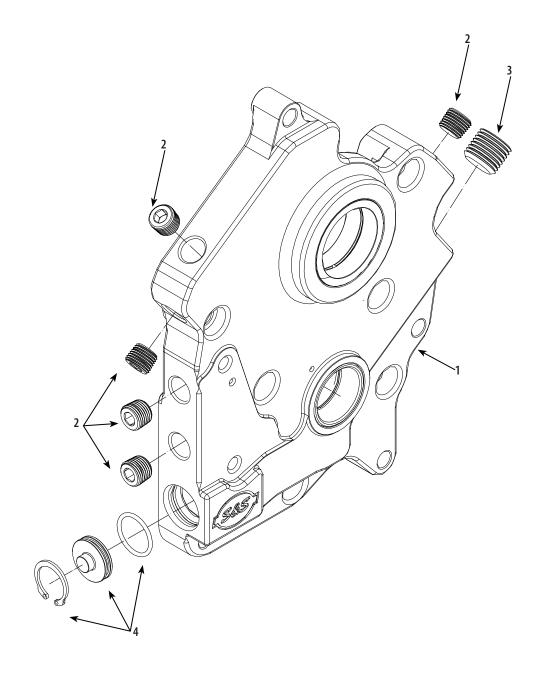
OIL PUMP REPLACEMENT PARTS

1.	Dowel pin, 0.125"x0.750", 2 Pack	.500-0967
2.	Pressure Relief Valve Assembly	.500-0949
3.	Stainless Steel Mesh Screen (2)	.310-0546
4.	Rotor Set, Oil Pump, Cam Chest Scavenge	.310-1092
5.	Oil Pump Housing, Return Side	N/A
6.	Oil Pump Housing, Supply Side, Oil Cooled	N/A
	Oil Pump Housing, Supply Side Water Cooled	N/A
7.	Divider Plate	.310-0948
8.	Rotor Set, Oil Pump Oil Cooled Feed Gear	.310-0955
	Rotor Set, Oil Pump, Water Cooled Feed Gear	.310-1048
9.	Rotor Set, Oil Pump, Flywheel Scavenge	.310-0148
10.	1/4" Pipe Plug 5 Pack	.500-0969
11.	Retaining Ring 5 Pack	.500-0968
12.	Magnet, .250" x .500"	.500-0350

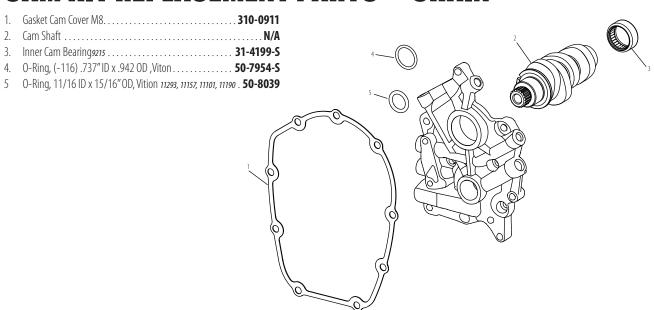


CAM SUPPORT PLATE REPLACEMENT PARTS

N/A	Cam support plate	1.
50-1015	1/8" pipe plug, 45830-48 10 pack	2.
500-0969	¼" pipe plug, 5 pack	3.
500-0966	M8 cam support plate oil supply plug kit	4.
310-0962	Hydraulic tensioner block off plate kit N/S	5.
500-0850	O-ring kit N/S	6.



CAM KIT REPLACEMENT PARTS—CHAIN



CAM KIT REPLACEMENT PARTS—GEAR

1.	Parallel Key 1	106-1348
2.	Gasket Cam Cover M8	
3.	Cam Shaft	
-		
4.	Inner Cam Bearing 9215	
5.	Gear, Cam Drive	330-0621
6.	Gear, Pinion 31 tooth	
	Standard Size	330-0622
	Undersized	330-0626
	Oversized	
7.	Plate, Oil Hole Block-off	
8.		
	0-Ring, (-116) .737" ID x .942 0D ,Viton	
	O-Ring, 11/16 ID x 15/16" OD, Vition 11293, 11157, 11101, 11190.	
	Flat Washer, .405" x 1.150: x .230" Alloy Steel	
12.	Screw, SHCS, 3/8-24 x 1-3/4" Black	50-0132
13.	Screw, HHC, Flanged, Gr8, 5/16-18 x 3/4" Black 25566-06	50-0100
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2007–2017 BIG TWINS

RMAIL E. R.	Charles Court I would be seen to		
RMAN E	CO & MORE		
PA A CONTRACTOR OF THE PART OF	Performance Kits		All Mills
RMAN E	" Bore Sidewinder Big Bore Kit	68	
RMAN E	06" Hot Set Up & Big Bore Kit	73	=
RIMAL E	07" Big Bore Kit	72	目
RMAN E	10" Pistons and Cams	71	1
RMAN E	17" Big Bore Kit	70	
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SIDEWINDER® 2:1 EXHAUST FOR 1995–'16 TOURING MODELS



- 2:1 styling for high-performance baggers
- High-flow cat (550-0771A & 550-0772A)
- Increased power and torque
- Available in show chrome or ceramic black finish
- Machined aluminum endcap
- Includes adapters that allow use of wide band or stock O2 sensors
- Stainless steel stepped header construction
- Some fitments 50-State Legal: CARB EO# K-010-3
- Removable dB reducer included
- Made in the USA!



SIDEWINDER® 2:1 EXHAUST SYSTEM FOR 2007-2016 FL MODELS — STREET LEGAL†

Finish	Part#
Chrome with Black Highlighted Machined Endcap	550-0771A
Black with Black Highlighted Machined Endcap	550-0772A

SIDEWINDER® 2:1 EXHAUST SYSTEM FOR 1995-'09 FL MODELS — 1995-'03, 2007 FL MODELS — CA EMISSIONS LEGAL^{††}

Chrome with Black Highlighted Machined Endcap	550-0776
Black with Black Highlighted Machined Endcap	550-0777

[†]Exempt from emissions tampering regulations under CARB EO# K-010-3 for all 2007-2016 FL touring models

California Models

Fuel Injected Non-CVO FL Touring Model Years: 1995-2003 and 2007

CVO FL Touring Model Years: 2000-2003

49 State Models:

Fuel Injected Non-CVO FL Touring Model Years: 1995-2005 and 2007-2009

CVO FL Touring Model Years: 2000-2005



WARNING: Cancer and Reproductive Harm



^{**}DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on EPA pollution controlled vehicles originally equipped with catalyst.

^{*}Qualified manufacturer declared emissions replacement part on FL touring models listed below.

GRAND NATIONAL® 2 INTO 2 EXHAUST SYSTEM FOR DYNA® MODELS

FITMENT

• 2006–2017 Dyna® models

FEATURES AND BENEFITS

- 2:2 Free-flow design equals solid HP gains
- Hidden crossover provides performance benefits of 2:1
- Full heat shields on both front and rear headers
- Stainless steel header construction
- Race inspired Grand National endcap
- Available in chrome or ceramic black finish
- Oxygen sensor ports allow use of wide band or stock O2 sensors.
- Right side passenger peg relocation bracket available (part #550-0801 for
- SAE J2825 sound level compliant
- Removable dB reducers
- Made in USA!





Removable dB reducer

GRAND NATIONAL® 2:2 EXHAUST SYSTEM FOR 2006-2007 DYNA® MODELS

Finish	Part #
Chrome	550-0743
Black	550-0742

GRAND NATIONAL® 2:2 EXHAUST SYSTEM FOR 2008–2017 DYNA® MODELS — RACE ONLY

Chrome	550-0743
Black	550-0742

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. NOT LEGAL FOR SALE OR USE ON EPA POLLUTION CONTROLLED MOTORCYCLES ORIGINALLY EQUIPPED WITH CATALYST.

*QUALIFIED MANUFACTURER DECLARED EMISSIONS REPLACEMENT PART ON THE DYNA MODELS LISTED BELOW.

CALIFORNIA MODELS: MY 2006-2007, EXCEPT CVO MODELS

49 STATE MODELS: MY 2006-2009, EXCEPT CVO MODELS

⚠WARNING: Cancer and Reproductive Harm



EL DORADO TOURING EXHAUST SYSTEM MK45 MUFFLER/HEADER PACKAGE

FITMENT

• 2009–'16 touring models

FEATURES AND BENEFITS

- Improved power and torqueDeep bass rumble throughout the RPM rangeStainless steel header construction
- Includes adapters for OE or wide band O2 sensors
- 02 sensor location same as stock
- 50-state legal CARB EO# K-010
- SAE J2825 sound level compliant
- High Flow Cats increase exhaust flow for optimum torque

- Catalysts located in mufflers moves heat away from riderShow chrome or ceramic black finish
- Highlight Machined Thruster or Tracer endcaps
- Made in USA!





Black w/Thruster



Chrome w/Thruster



Black w/Tracer



Chrome w/Tracer

EL DORADO EXHAUST SYSTEM FOR 2009-2016 TOURING MODELS — STREET LEGAL

Description/Finish	Endcap	Part #
Chrome	Highlight Machined Thruster	550-0677A
Chrome	Highlight Machined Tracer	550-0678A
Black	Highlight Machined Thruster	550-0679A
Black	Highlight Machined Tracer	550-0680A

Exempt from emissions tampering regulations under CARB EO# K-010 for all 2007-2016 FL touring models WARNING: Cancer and Reproductive Harm

SLASH CUT SLIP-ON MUFFLERS FOR DYNA® MODELS

FITMENT

- 1995—2009 Dyna® models with staggered exhaust
- 2008—'17 Dyna® models with 2-1-2 exhaust

FEATURES AND BENEFITS

- Up to 16% more horsepower and 10% more torque (when used with Stealth Air Cleaner Kit)
- Wake up your bike without breaking your budget
- Classic slash cut styling
- Show chrome or ceramic black finish
- SAE J2825 sound level compliant
- 50-state legal
- Removable dB reducer
- Made in USA!



(3.8)	
	(S&S)
	(585)

Finish	Part #
Chrome	550-0718
Black	550-0720

SLASH CUT MUFFLERS FOR 2008–2017 DYNA® MODELS WITH 2-1-2 EXHAUST**

SLASH CUT MUFFLERS FOR 1995-2009 DYNA® MODELS WITH STAGGERED EXHAUST[†]

Chrome	550-0722
Black	550-0724

[†]DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with mufflers containing catalyst.

California Models: MY 2006-2007, Except CVO models

WARNING: Cancer and Reproductive Harm



^{*}Qualified Manufacturer Declared Emissions Replacement Part on the Dyna Models Listed Below.

⁴⁹ State Models: MY 1995-2009, Except CVO models

^{††}DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with mufflers containing catalyst.

^{*}Qualified Manufacturer Declared Emissions Replacement Part on the Dyna Models Listed Below. California Models: Fat Bob MY 2008, 2010-2017; Wide Glide MY 2010-2017; Low Rider S MY 2017

⁴⁹ State Models: Fat Bob MY 2008-2017; Wide Glide MY 2010-2017; Low Rider S MY 2017

GRAND NATIONAL® SLIP-ON MUFFLERS FOR DYNA® MODELS

FITMENT

- 1995—2009 Dyna® models with staggered exhaust
- 2008—'17 Dyna® models with 2-1-2 exhaust

FEATURES AND BENEFITS

- Up to 17% more horsepower and 9% more torque (when used with Stealth Air Cleaner Kit)
- Race inspired Grand National endcaps
- Show chrome or ceramic black finish
- Deep performance rumble
- SAE J2825 sound level compliant
- 50-state legal
- Removable dB reducer
- Made in USA!



Removable dB reducer



Finish	Part #
Chrome	550-0719
Black	550-0721

GRAND NATIONAL MUFFLERS FOR 2008-2017 DYNA® MODELS WITH 2-1-2 EXHAUST**

GRAND NATIONAL® MUFFLERS FOR 1995-2009 DYNA® MODELS WITH STAGGERED EXHAUST

Chrome	550-0723
Black	550-0725

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with mufflers containing catalyst.

*Qualified Manufacturer Declared Emissions Replacement Part on the Dyna Models Listed Below.

California Models: MY 2006-2007, Except CVO models

49 State Models: MY 1995-2009, Except CVO models

**DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with mufflers containing catalyst.

*Qualified Manufacturer Declared Emissions Replacement Part on the Dyna Models Listed Below. California Models: Fat Bob MY 2008, 2010–2017; Wide Glide MY 2010–2017; Low Rider S MY 2017

49 State Models: Fat Bob MY 2008-2017; Wide Glide MY 2010-2017; Low Rider S MY 2017 MARNING: Cancer and Reproductive Harm

Mk45 TOURING MUFFLERS

Mk45 4.5" Touring Mufflers are the result of decades of riding, racing and tuning. Combining both a stainless steel baffle and fiberglass packing, they create a deep rumble and improved horsepower and torque, all while adding a unique look with styled aluminum endcaps.

FITMENT

• 1995—2016 touring models

FEATURES AND BENEFITS

- 7 horsepower gain*
 Bold 4.5" design with stainless steel baffle and RaceTEX cartridge packing
 Available in show quality chrome or ceramic black finish
- Choose from S&S® Thruster or Tracer end-cap designs in chrome or black
- SAE J2825 sound level compliant
- 50-state legal
- Removable dB reducer
- Made in USA!

Mk45 4.5" TOURING MUFFLERS W/ENDCAPS

Muffler Body Finish	Endcap Finish & Style	Part #
	Chrome Thruster	550-0620
Chuama	Black Highlight Machined Thruster	550-0619
Chrome	Chrome Tracer	550-0624
	Black Highlight Machined Tracer	550-0623
	Chrome Thruster	550-0622
Caramaia blade	Black Highlight Machined Thruster	550-0621
Ceramic black	Chrome Tracer	550-0626
	Black Highlight Machined Tracer	550-0625

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with mufflers containing catalyst.

*Qualified manufacturer declared emissions replacement part on the FL touring models listed below. California FL Touring Models:

Fuel Injected MY 1995-2003, 2007, and 2009-2016

CVO MY 2000-2003, and 2009-2016

49 State FL touring Models:

Carbureted MY 1995-2005

Fuel Injected MY 1995-2005, 2007-2016

CVO MY 2000-2005, and 2009-2016

MARNING: Cancer and Reproductive Harm



550-0620



550-0622



550-0619



550-0621



550-0624



550-0626



550-0623



550-0625



^{*}Tested with S&S Power Tune® Dual Header and Stealth Air Cleaner Kit



DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with mufflers containing catalyst.

*Qualified manufacturer declared emissions replacement part on the FL touring models listed below.

California FL Touring Models:

Fuel Injected MY 1995-2003, 2007, and 2009-2016

CVO MY 2000-2003, and 2009-2016

49 State FL touring Models:

Carbureted MY 1995-2005

Fuel Injected MY 1995-2005, 2007-2016

CVO MY 2000-2005, and 2009-2016

WARNING: Cancer and Reproductive Harm



GRAND NATIONAL® 4" MUFFLERS FOR 1995–2016 BIG TWINS AND 2009–'19 TRI GLIDE® MODELS

Finish	Part #
Chrome	550-0689
Black	550-0690

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with mufflers containing catalyst.

 ${\bf *Qualified\ manufacturer\ declared\ emissions\ replacement\ part\ on\ the\ FL\ touring\ models\ listed\ below.}$

California FL Touring Models:

Fuel Injected MY 1995-2003, 2007, and 2009-2016

CVO MY 2000-2003, and 2009-2016

49 State FL touring Models:

Carbureted MY 1995-2005

Fuel Injected MY 1995-2005, 2007-2016

CVO MY 2000-2005, and 2009-2016

▲ WARNING: Cancer and Reproductive Harm

FITMENT

- Non-catalyst equipped Harley-Davidson® touring models[‡]
- Harley-Davidson® Tri Glide® & Freewheeler® models††

FEATURES AND BENEFITS

- Adds up to 8 horsepower over stock header pipes
- Independent dual look with hidden crossover
- Exclusive design moves the rear cylinder header away from the passenger to reduce radiated heat
- Full chrome or ceramic black heat shielding with 220° coverage
- Updated styling to give the bike a modern look
- Oxygen sensor bungs[†]
- Spherical inlet design for improved sealing and exhaust gasket durability
- Hardware included to mount crossover pipe
- Exhaust port gaskets included
- All hardware included
- Made in USA!



550-0003A



550-0142A

NOTES

Fuel injection tuning is not required with this product but is highly recommended for best results.

Power Tune® Dual Headers can be used on 1993—'94 models if 1995—up mufflers are used.

2010 Road Glide® and Street Glide® using OEM 2:1 Header require 1 of each HD® part 65723-85 mounting bracket and 65724-85A rubber mount for left side muffler mounting.

POWER TUNE® DUAL HEADERS

Fitment	Finish	Part#
1005 /00† kin truing	Chrome	550-0003A**
1995–'08 [†] big twins		550-0142A**
2009—'16 non-catalyst equipped touring and 2009—'20 Tri Glide ^{††} &	Chrome	550-0004B***
Freewheeler models	Black	550-0143B***

†Has 18mm sensor fittings in the stock locations for 2007–'08 bikes. If not equipped with oxygen sensors, the ports can be used for tuning. Plugs are included if ports are not used. †Requires the Trike Adaptor Kit. See chart below.

California Models:

FL Touring Fuel Injected MY 1995-2003, and 2007

CVO FL Touring MY 2000-2003

49 State Models:

FL Touring Carbureted MY 1995-2005

FL Touring Fuel Injected MY 1995-2005 and 2007-2008

CVO FL Touring MY 2000-2005

***DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with a catalyst exhaust

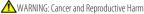
*Qualified Manufacturer Declared Emissions Compliant Part for 2009 Harley-Davidson 49-State Non-CVO FL Touring Models Only





††TRIKE ADAPTOR KIT

Fitment	Finish	Part #
2009, 2014–'20 Tri Glide®& Freewheeler ® models	Chrome	550-0799





REPLACEMENT PARTS: SEE PAGE 146

SPECIAL NOTES

It may be necessary to re-jet the carburetor or recalibrate the fuel injection system for best performance when a change is made in the exhaust system. Dyno results are from tests performed at the S&S® Research and Development facility in Viola, Wisconsin.

^{**}DÍSCLAIMER: NOT LÉGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on EPA pollution controlled vehicles originally equipped with catalyst.

*Qualified manufacturer declared emissions replacement part on FL touring models listed below.

EO #D-355-27

Conceived by S&S founder and brought to market by his son George B. Smith, the Classic Two Throat carb and matched air cleaner served as a performance milestone in the v-twin space for over a decade. Inspired by the unique style of our Two Throat intake, S&S has created the new "Tribute" air cleaner cover and wrapped it around our proven Stealth filter system creating a classic look combined with modern performance.

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}	2120			

STEALTH TRIBUTE COVER AIR CLEANER KITS
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170-0592

170-0593

Fitment	Finish	Part#
2008—'16 Touring & 2016—'17 Softail Models* (except Tri-Glide® & CVO® Models)	Chrome [±]	170-0594
	Gloss Black	170-0597
2001–'17 big twin** (except Throttle by Wire)	Chrome [±]	170-0596
	Gloss Black	170-0599

^{*}Kit includes Stealth Air Cleaner 170-0301B which is exempt from emissions tampering regulations under CARB EO# D-355-27

COVERS ONLY

Chrome

Gloss Black



^{**}Kit includes Stealth Air Cleaner 170-0300B which is exempt from emissions tampering regulations under CARB EO# D-355-27

^{± ★} WARNING: Cancer and Reproductive Harm



- 1999—'17 big twins (except 2017 touring models)
- Air directional stinger cone in the filter
- Pre-filters are available See page 66
- Use with any of several S&S designed covers See page 63
- High flow (1" taller) filter kit available See page 66
- Backplate adaptor for Rushmore covers also available—See page 66



STEALTH TEARDROP AIR CLEANER KITEXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS

Application	Fuel System	Finish	Part #
2001–'17 big twin (except 2017 touring models & Throttle by Wire)	Stock EFI, Delphi®	Chrome	170-0528 [±]
Includes Stealth AC Kit 170-0300B	EFI	Gloss Black	170-0529
2008—'16 touring,'16—'17 Softail®(except Tri-Glide® & CVO® Models)	Thuattle bu Wine	Chrome	170-0522±
Includes Stealth AC Kit 170-0301B	Throttle by Wire	Gloss Black	170-0523

^{*}WARNING: Cancer and Reproductive Harm



CARBON FIBER TEARDROP KIT EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS

Application	Part#
2001–'17 big twin (except Throttle by Wire)	170-0499
2008–'16 touring models and 2016–'17 Softail® models	170-0500



MINITEARDROP AIR CLEANER KITEXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARBEO# D-355-27 FOR ALL FUEL INJECTED MODELS

Application	Fuel System	Finish	Part#
2001—'17 big twin (except 2017 touring models & Throttle by Wire)	Stock EFI, Delphi® EFI	Chrome	170-0441 [±]
Includes Stealth AC Kit 170-0300B		Gloss Black	170-0442
2008—'16 touring,'16—'17 ST®(except Tri-Glide® & CVO® Models)	Thuatela hu Wina	Chrome	170-0437 [±]
Includes Stealth AC Kit 170-0301B	Throttle by Wire	Gloss Black	170-0438

^{**}WARNING: Cancer and Reproductive Harm



AIR 1 AIR CLEANER KIT EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS

Application	Fuel System	Part #
2001—'17 big twin (except 2017 touring models & Throttle By Wire) Includes Stealth AC Kit 170-0300B	Stock EFI Delphi®	170-0478
2008—'17 big twin (except 2017 touring models, Tri Glide® & CVO® Models) Includes Stealth AC Kit 170-03018	Throttle By Wire	170-0485



TRI-SPOKE AIR CLEANER KIT EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS

Application	Fuel System	Part #
2001—'17 big twin (except 2017 touring models & Throttle By Wire) Includes Stealth AC Kit 170-0300B	Stock EFI Delphi®	170-0476
2008—'17 big twin (except 2017 touring models, Tri-Glide® & CVO® Models) Includes Stealth AC Kit 170-0301B	Throttle By Wire	170-0483



TORKER AIR CLEANER KIT EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS

Application	Fuel System	Part #
2001—'17 big twin (except 2017 touring models & Throttle By Wire) Includes Stealth AC Kit 170-0300B	Stock EFI Delphi®	170-0477
2008—'17 big twin (except 2017 touring models, Tri-Glide® & CVO® Models) Includes Stealth AC Kit 170-0301B	Throttle By Wire	170-0484

FEALTH AIR CLEANER KITS



AIRSTREAM AIR CLEANER KIT EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS				
Application	Fuel System Finish Part #			
2001—'17 big twin (except 2017 touring models & Throttle By Wire)	Stock Eri Deipili	Chrome	170-0479±	
Includes Stealth AC Kit 170-0300B		Gloss Black	170-0480	
2008—'17 big twin (except 2017 touring models, Tri-Glide® & CVO®	Threathle Dr. Wine	Chrome	170-0486 [±]	
Models) Includes Stealth AC Kit 170-0301B	Throttle By Wire	Gloss Black	170-0487	

± ★ WARNING: Cancer and Reproductive Harm



MUSCLE AIR CLEANER KIT EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS

Application	Fuel System	Finish	Part #
Stock EFI Delphi®	Chrome	170-0481±	
	Stock Fri Deibui.	Gloss Black	170-0482
2008—'17 big twin (except 2017 touring models, Tri-Glide® & CVO® Models) Includes Stealth AC Kit 170-0301B Throttle By Wire	Chrome	170-0488±	
	Inrottle by wire	Gloss Black	170-0489

± ★ WARNING: Cancer and Reproductive Harm



STEALTH AIR CLEANER KITS — NO COVER

EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS

Application	Fuel System	Part #
2001—'17 big twin (except 2017 touring models & Throttle By Wire)	Stock EFI Delphi®	170-0300B
2008—'17 big twin (except 2017 touring models, Tri-Glide® & CVO® Models)	Throttle By Wire	170-0301B

REPLACEMENT PARTS: SEE PAGE 133



Fuel injection tuning is not required for this product.



CHROME AIRSTREAM AIR CLEANER KITS

Application	Fuel System	Part #
1999–2017 big twins (except '99 Softail® carb & Throttle by Wire)	Stock CV/EFI Delphi®	170-0056
2008–2017 big twins (except 2017 touring models)	Throttle by Wire	170-0054

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MARNING: Cancer and Reproductive Harm



CHROME MUSCLE AIR CLEANER KITS

Application	Fuel System	Part #
1999—2017 big twins (except '99 Softail® carb & Throttle by Wire)	Stock CV/EFI Delphi®	170-0106
2008–2017 big twins (except 2017 touring models)	Throttle by Wire	170-0099

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STEALTH AIR CLEANER KITS* — NO COVER

Application	Fuel System	Part #
1999—2017 big twins (except '99 Softail® carb & Throttle by Wire)	Stock CV/EFI Delphi®	170-0060
2008–2017 big twins (except 2017 touring models)	Throttle by Wire	170-0061

*These kits do not contain covers — Choose an S&S cover or use your stock Twin Cam 88®, 96™ or 103™ cover DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. NOT LEGAL FOR SALE OR USE NATIONWIDE ON ANY FEDERAL POLLUTION CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT



STEALTH AIR CLEANER KITS FOR S&S ENGINES

STEALTH AIR CLEANER KITS FOR S&S ENGINES

Fitment	Fuel System	Part #
2003—'17 HD® Models (except '17 touring models)	S&S 66mm Throttle Hog	170-0165
2003—'17 HD® Models (except '17 touring models)	S&S 58mm Throttle Hog	170-0164
1995–1999 S&S Super Stock Engines	S&S Single Bore VFI 52mm Throttle Bodies	170-0287
1995–1999 EFI big twin models	S&S Single Bore VFI 58mm Throttle Bodies	170-0283
1999–2017 EFI big twin models	S&S Single Bore VFI 58mm Throttle Bodies	170-0284
T124 1999—'06 big twin models (except '06 Dyna® models) (Engines produced after 2013)	S&S E or G Carburetor	170-0058
T124 1999—'06 big twin models (except '06 Dyna® models) (Engines produced after 2013)	Stock CV/EFI Delphi®	170-0060
T111 1999—'06 big twin models (except '06 Dyna® models) (Engines produced after 2013)	S&S E or G Carburetor	170-0058
T111 1999—'06 big twin models (except '06 Dyna® models) (Engines produced after 2013)	Stock CV/EFI Delphi®	170-0060

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. NOT LEGAL FOR SALE OR USE NATIONWIDE ON ANY FEDERAL POLLUTION CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT

EC STEALTH AIR CLEANER KITS

- 110" Harley-Davidson® Dyna® & Softail® Models up to 2017 (e9 11002G)
 103" Harley-Davidson Dyna & Softail Models up to 2017 (e9 11003G)

EC STEALTH AC KITS

Cable Throttle Body 103" HD° Dyna° & Softail° models up to 2017	170-0331
Throttle by Wire 103" HD Dyna® & Softail models up to 2017	170-0332
Cable Throttle Body 110" HD Dyna & Softail models up to 2017	170-0333
Throttle by Wire 110" HD Dyna & Softail models up to 2017	170-0334



HAIR CLEANER KIT COVERS













Carbon Fiber

Mini in Chrome

Mini in Gloss Black

Tri-Spoke

Torker









Airstream in Chrome

Airstream in Gloss Black

Muscle in Chrome

Muscle in Gloss Black







STEALTH COVERS

Teardrop		Teardrop—Slasher Carbon Fiber Mini		Tri-Spoke	Torker	Air 1			
Chrome	Gloss Black	Chrome	Gloss Black	Black	Chrome	Gloss Black	Gloss Black w/Highlights	Gloss Black w/Highlights	Gloss Black w/Highlights
170-0530	170-0531	170-0532	170-0533	170-0501	170-0367	170-0366	170-0210	170-0206	170-0214

Airstream		Muscle		Displacement		
Chrome Gloss Black Chrome		Gloss Black with Highlighted Logo	111	124	143	
170-0118	170-0396	170-0121	170-0463	170-0319	170-0321	170-0323



SINGLE BORE TUNED INDUCTION SYSTEM

FITMENT

• 2007—'17 big twin models including Harley-Davidson® Tri Glide® models (except 2007—'08 FXDWG & 2009 FXDC/FXDF and 2017 touring models)

FEATURES AND BENEFITS

- Bolt-on performance—over twice the filtering area over stock intake system
- Increases horsepower and torque across the rpm range using air column inertia and carefully timed gas dynamic pressure waves
- Smooth intake tract of carefully selected tuned lengths increases performance
- High flow washable and reusable cotton media provides performance, protection, and economy
- Available in wrinkle black, chrome, or natural



SINGLE BORE TUNED INDUCTION SYSTEM KITS

EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS

Fitment	Fuel System	Finish	Part #
2001—'17 Harley-Davidson® big twin (except Throttle By Wire and CVO® Models)	Stock EFI Delphi®	Chrome/Red Filters	170-0308B
2008–'16 HD® touring and '16 & '17	Throttle By Wire	Gloss Black/Red Filters	170-0309B
Softail ® (except Tri-Glide® & CVO® Models)		Chrome/Red Filters	170-0310B
^			



MARNING: Cancer and Reproductive Harm

SINGLE BORE TUNED INDUCTION SYSTEM KITS*

Fitment	Fuel Delivery	Finish	Part #
2007–2017 big twins (except 2017 touring models)	S&S Single Bore EFI	Chrome/Red Filters	170-0085
2007–2017 big twins (except 2017 touring models)	EFI Delphi®	Chrome/Red Filters	170-0087
2000 2017 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:	Throttle By Wire	Gloss Black/Red Filters	170-0457
2008—2017 big twins (except 2017 touring models)		Chrome/Red Filters	106-2448
CTO	Specify	Specify	106-5337*

Use the Configure to Order (CTO) part number to order different finish and filter color.

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± ★ WARNING: Cancer and Reproductive Harm



Molded black adaptor bracket for 2008—'16 touring models





REPLACEMENT PARTS: SEE PAGE 134 & PAGE 135



Does not fit Screamin' Eagle 58mm or 64mm throttle bodies, or S&S 58mm or 66mm Throttle Hogs.

Single bore tuned induction will not fit on motorcycles equipped with fairing lower glove boxes.

Fuel injection tuning is not required with this product but is highly recommended for best results.

CLASSIC TEARDROP AIR CLEANER KIT

FITMENT

 2007—'17 big twin models including Harley-Davidson® Tri Glide® models (except 2017 touring models)

FEATURES AND BENEFITS

- Efficient and free flowing intake that can add two to five horsepower
- Uniquely designed back plate has air horn style radiused entryway to reduce turbulence
- Dimpled cover with directional air cone on inside creates smooth path for air
- Great addition to performance exhaust or cams

KIT CONTENTS

- Filter
- Backing plate and cover
- All mounting hardware
- Instructions



CLASSIC TEARDROP AIR CLEANER KITS FOR STOCK EFI EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS **Fitment Fuel System** Finish Stock EFI, W/96 & 103 Engines Chrome 170-0303B± 2001-'17 HD® big twin models Stock EFI (except Throttle By Wire and CVO® Models) Delphi® Gloss Black 170-0304B EO #D-355-27 Chrome 170-0305B± 2008-'16 HD® touring stock-bore and Throttle By Wire '16 & '17 Softail® models (except Tri-Glide® & CVO® Models) Gloss Black 170-0312B **WARNING: Cancer and Reproductive Harm

CLASSIC TEARDROP AIR CLEANER KITS FOR STOCK CARB/EFI

Fitment	Finish	Stock EFI, With 110 Engines
2008–2017 big twins (except 2017 touring)	Chrome	106-2091±
2007 110 Coftrail® CVIO® Madale (0.1002 Voc ID® conhuseted his trivial)	Chrome	17-0450±
2007—'10 Softail® CVO® Models (& 1993—'06 HD® carbureted big twins)	Gloss Black	170-0181A

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±▲WARNING: Cancer and Reproductive Harm

CLASSIC TEARDROP AIR CLEANER KITS FOR S&S SINGLE BORE EFI THROTTLE BODIES

Fitment	Finish	52mm	58mm
Stock Harley-Davidson® heads, S&ST-Series Long block engines or S&S Heads for stock breathing system	Chrome	17-0498	106-4669
S&S Heads for 4%" bore engines with vacuum breathing	Chrome	-	106-4668

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▲ WARNING: Cancer and Reproductive Harm



Fuel injection tuning is not required with this product but is highly recommended for best results.

REPLACEMENT PARTS: PAGE 136



CLASSIC TEARDROP AIR CLEANER COVERS

Style	Finish	Part #
Classis Tapuduan	Chrome	17-0378±
Classic Teardrop	Gloss Black	170-0384A
Slasher Teardrop	Chrome	17-0004 [±]
	Gloss Black	170-0419
Nostalgic Teardrop	Polished	17-0071

^{*}WARNING: Cancer and Reproductive Harm



STEALTH BACKPLATE ADAPTOR FOR RUSHMORE COVER FOR 2014–2016 TOURING MODELS

S&S Stealth air cleaners allow owners of 1999—later big twins to use their stock air cleaner cover to hide a performance air cleaner. The new adaptor kit for Rushmore Models allows late model bagger owners to fly under the radar too.

FITMENT

• 2014-2016 touring models

STEALTH BACKPLATE ADAPTOR FOR RUSHMORE COVER

Fitment	Part #
2014–2016 touring models	170-0261

PRE-FILTERS

FITMENT

· S&S® Stealth Air Filters

FEATURES AND BENEFITS

- Water resistant
- · Prevents large debris from prematurely clogging filter
- Washable Nylon
- Promotes longer filter life
- Reduces the risk of water entering air intake system

PRE-FILTERS

Application	Part #
Standard	170-0193
1" Tall	170-0197



170-0197

HIGH FLOW AIR FILTER KITS

FITMENT

• S&S Classic Teardrop air cleaners for Super E & G carbs and S&S EFI throttle bodies

FEATURES AND BENEFITS

- Low restriction filter element comes pre-oiled for true plug and play installation
- 1" wider filtration area provides up to 37% more airflow over standard S&S filters
- Resulting band of exposed filter material imparts a high performance look

KIT CONTENTS

- · Wide filter
- Filter spacers





17-0045

HIGH FLOW AIR FILTERS

Description	Fitment	Part #
High Flow Air Filter Kit	Classic Teardrop	17-0045
(includes spacers)	Stealth, 1" Taller	170-0127*
1" Taller Filter Only	Classic Teardrop	106-4724
	Stealth	170-0154
Spacer	Classic Teardrop & Stealth, 1" Taller	50-5009-S

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STANDARD REPLACEMENT FILTERS

STANDARD REPLACEMENT AIR FILTERS

Description	Fitment	Part #	
Standard Filter Only	Classic Teardrop	106-4722	
	Stealth	170-0126	

PERFORMANCE KIT OVERVIEW

FOR HARLEY-DAVIDSON® TWIN CAM 96™ AND 103™



4" BORE BOLT-IN SIDEWINDER® BIG BORE KIT

S&S 4" big bore cylinder and piston kits boost 88 and 96/103" Harley-Davidson® big twin engines to 100" and 110" respectively. These bolt-in kits don't require any machining, rebalancing or engine removal, and include just about everything you'll need to complete the installation. The biggest cylinder bore that can be installed in a stock crankcase without machining! See page 68



124" HOT SET UP KIT

Ready for the ultimate? The 124" HSU kit will take you to the limit increasing both your bore and stroke. The included flywheel increases the stroke from 4 %" to 4 %". The kit's cylinders open the stock 3 34" bore to 4 %". S&S Easy Start 640 gear drive camshafts are included! Kits are available for balanced and unbalanced engines. CTO allows you to select other camshaft and cylinder head options to build the ultimate kit of your dreams. Your crankcase will require machining for these cylinder spigots to fit. Fuel injection tuning required. See page 69



117" BIG BORE KIT

The S&S 117" big bore top end kit, for 96" and 103" engines, is an economical route to big inches and increased performance. Use the stock crankcases, flywheel assembly, and cylinder heads for a stock look and a smaller price tag. Crankcase boring is required to accommodate the larger 41%" bore cylinders. Finish the conversion off with your choice of performance cams, fuel system upgrade, and tuning. Available in dished dome or flat topped pistons and in wrinkle black or silver powder coat finish that matches the stock heads and cases. See page 70.



107" & 106" BIG BORE KIT

A low cost bolt-on kit provides big displacement! The 107" and 106" Big Bore Kits offer the simplicity of a bolt-on cylinder kit. Satisfy your thirst for speed! Bore is increased from 3.750" to 3.927", taking your displacement from 96" or 103" to 106"! The kit contains cylinders, pistons, rings and all gaskets needed. Fuel injection tuning required. See page 72

PERFORMANCE K	PERFORMANCE KIT SPECIFICATIONS FOR HARLEY-DAVIDSON® TWIN CAM 96™/103™/110™												
						COMPRES	SION RATIO)				HORSEPOWER	TORQUE
KIT DESCRIPTION	BORE	STROKE	Stock	79cc	89cc	91cc		CNC	IC Heads		CAMSHAFT	(CNC Heads)	
		Heads	7,700	OFEE	7100	83cc	85cc	87cc	90сс				
Power Pack	4"	43/8"	10.5	11.1	10.2	9.9	10.7	10.5	10.3	10	585	110	119
124" Hot Set Up Kit (Flat Top Piston)	4 1/8"	4 5/8"	11.4:1	*	11:1	10.8:1	11.6:1	11.4:1	11.2:1	10.9:1	640	127	130
106" Big Bore Kit	3.927"	4 3/8"	10.0:1	10.7:1	9.7:1	9.5:1	10.2:1	10.1:1	9.9:1	9.6:1	_	106	108
*Not Recommended													

PERFORMANCE KIT CONTENTS, OPTIONS AND REQUIREMENTS FOR HARLEY-DAVIDSON® TWIN CAM 96™/103™/110™													
					MACHINING	сто	REJETTING OR						
KIT DESCRIPTION	Flywheels	Cylinders	Pistons w/rings	Rocker Arms	Pushrods w/covers	Lifters	Camshafts	Valve Springs	Heads w/springs	Gaskets	MACHINING REQUIRED	OPTIONS*	CALIBRATION CHANGE
Power Pack		•	•			•	•						
124" Hot Set Up Kit	•	•	•	•	•	•	•		0	•	60	900	•
117" Big Bore Kit		•	•						0	•	60	900	•
106" Big Bore Kit		•	•							•			•

- $\mathbf{o} = Optional$
- $\mathbf{0} = Order$ separately
- Uraer separatelyBore & hone cylinders
- S = Crankcase machining for center stud
- $\mathbf{4}$ = Crankcase machining for cylinder spigots
- $\mathbf{6}$ = Camshaft selection
- $\mathbf{6}$ = CNC heads
- Combustion chamber size selection
- 8 = Cylinder & piston set available
- *The CTO option column lists only the major items offered. Virtually any option can be selected from our product offerings through the Configure To Order (CTO) program.

FUEL INJECTION TUNING REQUIRED. S&S OFFERS FUEL INJECTION TUNING SOLUTIONS: SEE PAGE 108





S&S 4" big bore cylinder and piston kits boost 96/103" HD® big twin engines to 110". These bolt-in kits don't require any machining, rebalancing or engine removal and include just about everything you'll need to complete the installation. The biggest cylinder bore that can be installed in a stock crankcase without machining!

FEATURES & BENEFITS

- Bolts in. No machining, balancing, or splitting the crankcases
- 96" and 103" engines end up at 110"
- Complete kits include cylinders, pistons, gaskets, and instructions
- Choose from wrinkle black or silver powder coat cylinders matches stock finish

FITMENT

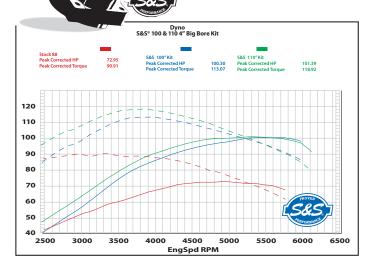
• 2007—17 big twins (except 2017 touring models)

SPECS FOR S8	SPECS FOR S&S 4" BORE BOLT-IN CYLINDER & PISTON KITS										
						Compression Ratio					
Year	Stroke	Bore	Cylinder Length	Piston Type	Dome Volume	83cc CNC	85cc Stock	89cc S&S			
						Heads	Heads	Heads			
2007–2017	4 3/8	4.00"	4.937"	Forged	.75 pop up	10.7:1	10.5:1	10.2:1			

4" BORE BOLT-IN SIDEWINDER® BIG BORE KITS

inder	° 4" BORE BOLT-II	N SIDEWINDER® BIG BO	RE KITS		
	Displacement	Year	Stroke	Finish	Part #
180	110	2007—'17 big twin (except 2017 touring)	43/8"	Silver	910-0650
5	110	2007—'17 big twin (except 2017 touring)	43/8"	Wrinkle Black	910-0651

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These dyno results from our DynoJet® 250i chassis dynamometer clearly show the performance increases available with the S&S bolt-in 4 inch bore kits. The lowest (red) set of curves represents a stock 88 cid engine in a 2004 Harley-Davidson® FLHR Road King®. The next curves above the stock baseline (blue) shows the performance of the S&S 100" bolt-in big bore kit. The highest set of curves show the results from an S&S 110" big bore kit installed in a 96 cid engine. The engines with the S&S 100" and 110" kits were also set up with S&S 585 cams, Power Tune® headers, MK45 muffler, and the stock EFI throttle body with an S&S Stealth air cleaner.

NOTE

Not for use with S&S 79cc Cylinder Heads

124" HOT SET UP KIT®

FITMENT

All 2007—'17 big twin models and 2006 Dyna® models, except 2017 touring models (2016 Twin-Cooled[™] models not compatible with kits containing heads)

FEATURES AND BENEFITS

- Huge displacement increase means huge power increase
- Stock crankcases, cylinder heads, oil pump, and cam cover can be reused
- Original engine serial numbers are retained
- Gear drive S&S 640 Easy Start Cams included!
- Wrinkle black& stone gray powder coat finish matches factory finish
- .045" MLS (multi-layered steel) head gaskets
- Adds .096" to engine height—still fits in stock frames
- Kits with S&S heads use stock length manifolds (S&S size 405)
- Cylinder w/piston kits include fitted pistons ready to install





OPTIONS

The following three options are examples of the most commonly ordered kits.

Option 1 (10.8:1 compression ratio) includes:

S&S 91cc high flow Super Stock® heads

Flat topped pistons
Option 2 (without heads) Available only through CTO. Includes:

Flat topped pistons

Option 3 (without heads, 10.4:1 compression ratio intended for stock 85cc chamber cylinder heads) includes:

Francis

10.9cc Dished pistons Silver finish available through CTO.

S&S® 124" HOT SET UP KIT® SPECIFICATIONS										
Voor	Ctroko	Rose Cylinder			Piston Type/Compression Ratio					
Year Stroke Bore	Length	91cc S&S Heads	89cc S&S Heads	85cc Stock Heads	95cc Stock 110 CVO Heads					
2007-'16	4 5/8"	4 1/8"	5.004"	Flat top forged/10.8:1	Flat top forged/11:1	Forged, 10.9cc dish/10.4:1	10.5:1			



124" HOT SET UP KITS® FOR HARLEY-DAVIDSON® TWIN CAM 96™/96B™ /103™/110™ ENGINES (Kits include S&S® Super Stock® 91cc Cylinder Heads 10.8:1 Compression)

Model or Engine Tune

model of Eligilie Type	Calli	FIIIISII	I di C#
2006 Dyna® & 2007—'17 Twin Cam 96™/103™ & 2008—up touring models	(4005	Weindele Dleefe	900-0568
2007—'17 big twins w/Balancer	640GE	Wrinkle Black	900-0569
Other Finishes and Combinations Available Here	Specify	Specify	106-5752

Does not fit Twin-Cooled™ models

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124" HOT SET UP KIT® WITHOUT HEADS FOR HARLEY-DAVIDSON® CVO 110 ENGINES (KITS INCLUDE FLAT TOP PISTONS 10.5:1 COMPRESSION WHEN USED WITH 95CC STOCK 110 CVO HEADS)

Year	Cam	Finish	Part #
2007–'17 CVO 110 engines	640	Stone Gray	900-0690

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S&S Easy Start Cams save you money—no need to buy compression releases or S&S rocker covers.

Twin-Cooled applications will require separate purchase of 900-0609 head gaskets.

For engines with cable controlled throttle bodies we recommend the S&S 58mm or 66mm Throttle Hog (See page page 103). For 2008—up touring models with electronic throttle control S&S recommends a S&S Throttle Hog 58mm or 66mm Throttle body (See page 104).

This kit will require that the case be bored to accept the larger cylinders.

Main Bearing Note: S&S flywheel assemblies included in a 124" S&S Hot Set Up Kit® for 1999—'16 big twin engines are designed for use with Timken® sprocket shaft bearings. They will fit directly in stock 1999-'02 Harley-Davidson® crankcases and in all S&S crankcases for 1999-'16 big twin engines, with no modifications. However, stock 2003 and later engines use a roller type bearing for the sprocket shaft, and will require modification.

Due to the amount of power these engines produce with an S&S Hot Set Up Kit, S&S strongly recommends retrofitting 2003—'16 model crankcases to accept a Timken sprocket shaft bearing. A Timken conversion sleeve such as Screamin' Eagle® #34822-08 or Jim's® #956 may be used. A charging system spacer for 1999—'02 model year is also required.

If you choose not to convert your crankcases to a Timken sprocket shaft bearing, S&S flywheels may be used in 2003 and later engines with the installation of the Harley-Davidson® bearing kit #24004-03B. This bearing kit adapts the S&S sprocket shaft to be compatible with stock roller type bearings. Verify that the bearing kit contains the 24604-00D or 24607-07 or sprocket shaft bearing or S&S p/n 310-0761 for touring models. Do not use a 24604-00, 24604-00A, 24604-00B or 24604-00C bearing. Please be advised that if this type of bearing is used, sprocket shaft bearing failure WILL NOT be covered under warranty.

Fuel injection tuning is required. S&S offers fuel injection tuning solutions: See page 108

Kits with S&S heads are machined special to compensate for engine height change to accomodate a stock length manifold. When using a kit with stock cylinder heads, S&S recommends using the appropriate length manifold. For a 124" with stock OEM cylinder heads, the standard manifold length is 417.

Center case bolt between cylinders will use waisted bolt kit 900-0807



117" BIG BORE KITS

FITMENT

2007—'17 big twins, except 2017 touring models
 (Twin-Cooled™ models require 900-0609 head gaskets)

FEATURES AND BENEFITS

- Large displacement increase with a small price
- Your original crankcase, flywheel, cylinder heads, oil pump, and cam cover are reused
- Silver or wrinkle black powder coat matches factory finish
- .060" shorter than stock engine no frame clearance issues
- Piston weight is the same as stock Twin Cam 96™/103™—no balancing required
- Piston is plated for extreme durability and skirts feature low friction Wiseco ArmorGlide® coating



117" BIG BORE KITS

Model or Engine Type	Piston	Finish	Part #
117" Standard Compression	Elat Ton	Silver	910-0213
	Flat Top	Wrinkle Black	910-0221
11711 1 (Disk s d	Silver	910-0321
117" Low Compression	Dished	Wrinkle Black	910-0318
Special Order*		Specify	91-7506*

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S&S® 117'	S&S® 117" BIG BORE KIT SPECIFICATIONS											
				Cylinder		Compression Ratio						
Year	Stroke	Displacement	Bore	Length	Piston Type	91cc Super Stock Heads	89cc Super Stock Heads	85cc Stock Heads	83cc CNC Ported Stock Heads			
2007-'17	4 3/8"	117"	4 1/8"	4.878"	Flat Top 106-3491A	10.4:1	10.5:1	10.9:1	11.2:1			
2007–'17	43%"	117" LC	4 1/8"	4.878"	Dished, 10cc 920-0046	9.5:1	9.7:1	10.0:1	10.3:1			



Twin-Cooled applications will require separate purchase of 900-0609 head gaskets.

The 117" cylinder kit will reduce the engine height \sim .060", this may require the stock manifold be shortened by sanding some material off each side of the intake runner.

Cylinder w/piston kits included in this Hot Set Up Kit are pre-fit and ready to install.

2008-up touring models with electronic throttle control recommends S&S Throttle Hog 58mm or 66mm Throttle body (See page 104) and Harley-Davidson® race timer

This kit will require that the case be bored to accept the larger cylinders.

.030" MLS head gaskets optional: Part #900-0217

S&S recommends retrofitting a Timken bearing (31-4013) into 2003—'16 model crankcases with the use of a Timken sleeve, Screamin' Eagle #34822-08 or Jim's #956. A charging system spacer for 1999—'02 model year is also required. S&S p/n 310-0761.

Requires recalibration.

110" PISTONS AND CAMS

MAKE THAT BIG HOG REALLY RUN! S&S CAMS AND PISTONS FOR CVO™ 110

Not satisfied with 86 horsepower from your CVO™ 110 engine? Neither were we! Fortunately, we can show you how to make that biq hoq really run. Here's how.

- 1. Install an S&S performance exhaust and air cleaner a must for any performance upgrade
- 2. Install a set of S&S 585 bolt-in cams and tune the EFI system produces over 107 horsepower
- 3. Increase the compression ratio from the stock 9.3:1 to 10.6:1 with S&S high compression pistons *brings the horsepower up to 114*

FITMENT

2007—Up Harley-Davidson® CVO™ 110 engines

FEATURES AND BENEFITS

- Significant performance increase See the dyno chart
- Don't trade torque for horsepower *get more of both! See the dyno chart*
- Easy installation! All parts bolt in without splitting the cases or even removing engine from the frame
- S&S Easy Start Cams ensure reliable starting even with high compression pistons









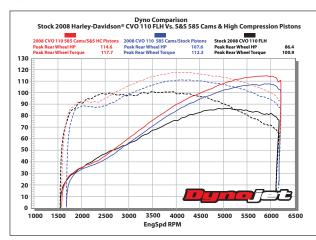
10.6:1 HIGH COMPRESSION PISTONS FOR HARLEY-DAVIDSON® CVO™ 110 ENGINES

Fitment	Deck Height	Wristpin Diameter	Standard	+.010"
2007—'17 bt CVO™ 110" engines	1.0895"	.927"	920-0114	920-0115

585 CAMSHAFTS FOR HARLEY-DAVIDSON® CVO™ 110 ENGINES

Cam Style	Easy Start*	Standard
Chain Drive 585 cams (includes installation kit)	106-5233	106-4382
Gear Drive 585 cam kits (includes inner and outer gears and installation kit)	106-5225	33-5268

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The Dynojet® 250i chassis dynamometer shows how this 2008 Harley-Davidson® CVO™ FLH revealed its true potential with the addition of S&S performance exhaust, intake and 585 cams. The top set of curves show that bumping the compression with S&S 10.6:1 pistons really wakes up the engine and makes over 114 horsepower. That's a total increase of over 28 horsepower or nearly 33%! All tests were done with the stock 50mm throttle body. Make even more power with an S&S 58mm Throttle Hog or cable controlled throttle body.

107" BIG BORE KITS

FITMENT

- 2007–2017 big twins, except 2017 touring models
- 2014–2017 Twin Cooled models, except 2017 touring models

FEATURES AND BENEFITS

- 3.937" bore
- Cylinder and piston kits make going to a larger bore size easy—no machining required
- Stock engine height is maintained
- 11 fin cylinder design closely resembles OEM shape and come final honed—ready to install
- Increased fin area for better heat dissipation
- Centrifugal cast, gray iron liner features 40,000 psi tensile strength—superior wear and performance
- CP Pistons are recognized as industry leaders and provide exceptional wear, performance and noise characteristics

KIT CONTENTS

- S&S cylinders with gaskets
- Piston set with rings, wristpins, and wristpin clips



910-0500

S&S® 107" BIG BORE KIT AND HOT SET UP KIT SPECIFICATION CHART								
Year	Stroke	Bore	Cylinder Length	Piston Type	COMPRESSION RATIO (with provided .045" head gasket)			
					83cc CNC Ported Stock Heads	85cc Stock Heads	89cc S&S Heads	
2007–2017	43/8"	3.937"	4.937"	Forged, 3cc Dome	10.7:1	10.5:1	10.1:1	

107" BIG BORE KITS

Fitment	Cylinder Finish	Part #
2007 117 him truin	Silver	910-0480
2007—'17 big twin, except 2017 touring models	Wrinkle Black	910-0500

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Not for use with 79cc heads

S&S® highly recommends installing a performance cam for easier starting and better engine performance.

S&S high flow cylinder heads or CNC ported stock heads will provide further horsepower gains.

These kits require tuning.

106" BIG BORE KITS

FITMENT

- 2007–2017 big twins, except 2017 touring models
- 2014–2016 Twin Cooled models

FEATURES AND BENEFITS

- Increased fin area for better heat dissipation—be cool!
- Increase bore size from 3.750" to 3.927"—bigger is better!
- Easy installation no machining or rebalancing required—economical!
- Forged coated pistons are compatible with stock or S&S Super Stock® 79cc & 89cc
- Valve pocket recessed in S&S pistons are enlarged for oversize valves and higher lift cams
- Maintains stock engine height and stock piston weight
- Cosmetic improvements—hard to tell from stock cylinders
 - 11 fins and full fin pattern on cam side closely resembles OEM shape

Cylinder Length

4.937"

• S&S logo and part numbers are less conspicuous

S&S® 106" BIG BORE KIT SPECIFICATION CHART

Bore

3.927"

• Better overall appearance

Stroke

43/8"

OPTIONS

Oversize pistons available - See page 84

KIT CONTENTS

S&S cylinders with gasl

79cc S&S Heads

10.7:1

COMPRESSION RATIO

89cc S&S Heads

9.7:1

- Piston set with rings
- Top end gasket kit
- Instructions



83cc CNC Ported Stock Heads

10.2:1

Cylinder w/piston kits include fitted pistons and cylinders that require no boring or honing.

106" BIG BORE KITS

Year

2007-'17

Fitment	Finish	Part #
2007 17 hig truin and 2014 14 Truin Cooled Madele	Wrinkle Black	910-0206
2007—'17 big twin and 2014—'16 Twin-Cooled™ Models	Silver	910-0202

Piston Type

Forged

Flat Top

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106" HOT SET UP KITS® WITH CYLINDERS & PISTONS WITHOUT HEADS

Model Year	Cam	Compression Ratio	Piston Type	Valve Springs	Finish	Part#
2007—'17 big twin and					Wrinkle Black	900-0354
2014—'16 Twin-Cooled™ Models	585CE	10.0:1	Flat top	_	Silver	900-0355

85cc Stock Heads

10.0:1

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106" HOT SET UP KITS® WITH 83CC CNC PORTED HEADS, CYLINDERS & PISTONS

Model Year	Cam	Compression Ratio	Piston Type	Valve Springs	Finish	Part #
2007—'17 big twin (except Twin-Cooled™ models)	585CE	10.2:1	Flat top	.585"	Wrinkle Black	900-0352

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S&S® highly recommends installing a performance cam for easier starting and better engine performance. S&S high flow cylinder heads or CNC ported stock heads will provide further horsepower gains.

These kits require tuning.



ENGINE OVERVIEW

S&S performance engines for 2007—'17 Harley-Davidson® big twins are available as long blocks which do not include fuel or ignition systems. Engines are protected by super tough powder coat finishes. Available in silver and chrome, wrinkle black and chrome, stone grey and chrome, and Black Edition color schemes. Stone grey matches the engine finish on CVO models, and Black Edition is a wrinkle black engine with gloss black covers.

BLACK EDITION

S&S Cycle's new Black Edition engines combine classic wrinkle black with high gloss black powder coated covers for a subtle contrast and elegant look while still producing the power and reliability you've come to expect.

T143 (143 cid)

The T143 T2 long block engine is the largest (143 cid) S&S engine that will fit in a stock chassis. Long blocks come without fuel or ignition systems (available separately) and an oil line installation kit is required. Available in silver, wrinkle black, stone grey, or Black Edition finishes. The 160 rear wheel horsepower also requires performance drive train upgrades. Not for the faint of heart!

T124 (124 cid)

The S&S T124T2 long block engine has been our daily rider hot rod since 2004. The combination of day in and day out reliability and brutal power make it the perfect choice. Available in silver, wrinkle black, stone grey, or Black Edition finishes. Long blocks come without fuel of ignition systems. Our Throttle Hog EFI throttle bodies are highly recommended.

T111 (111 cid)

The S&S T111T2 long block is the ultimate sport touring engine. The shorter stroke provides a perfect combination of performance, engine life, quiet operation, and reduced vibration. Available in silver, wrinkle black, stone grey, or Black Edition finishes. Long blocks come without fuel or ignition systems. Our Throttle Hog EFI throttle bodies are available to complete the package.



3 2017 big twins

T143 ENGINES

If Bigger is Better, the T143 is the Best...
The BIGGEST, BADDEST, BOLT-IN for a Stock Frame.

All joking about size aside, it does matter. The S&ST143 Long Block engine for Harley-Davidson® models is the largest S&S engine that will fit in a stock Harley-Davidson® chassis. It's big, 143 cubic inches. 'Nuff said.

At double the HP of a stock motor the power of the T143 requires technical expertise for the installation and tuning along with an experienced rider. This is an ultra performance/race engine. Longevity, engine noise, vibration and throttle sensitivity have all been compromised to reach this level of performance while fitting in a stock chassis and as such is not suitable for every situation. It is the purchaser's responsibility to consider the suitability for their application. Engine noise and damage from abuse is not covered under warranty.

FITMENT

- 2007—'16 Harley-Davidson® touring models
- 2006—'17 Dyna[®] models

FEATURES AND BENEFITS

- Fits in stock chassis—no cutting or frame modifications
- S&S B3 cylinder heads CNC machined with 2 bolt exhaust flanges
- S&S Super Stock T2 Crankcases with reed breather valve
- 3 Piece Flywheels
- TC3 Oil Pump and Cam Plate
- S&S 635 Easy Start Gear Drive Cams and S&S 1.725:1 rocker arms for .674" total lift.
- S&S Precision Tappets
- 1 year warranty

OPTIONS

• Wrinkle Black, Stone Gray, or Black Edition powder coat finish

SUGGESTED ACCESSORIES

• Stealth Air Cleaner Kit 143 Cover: See page 63



T143 ENGINES WITHOUT FUEL AND IGNITION SYSTEMS

Chassis Style	Displacement	Bore	Stroke	Cam	Piston Type	CR	Warranty	Finish	Part #
2007–'16 touring models	" 4.425"	45/8"	635	S&S Forged Flat Top	10.5:1		Wrinkle Black & Chrome	310-0548A	
							Stone Gray	310-0549A	
								Black Edition	310-0837A
2006 147					6065			Black Edition	310-0901A
2006-'17 Dyna® Models 143"	4.425" 45%" 6		635	S&S Forged Flat Top	10.5:1		Wrinkle Black & Chrome	310-0883A	

170-0288

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REQUIRES OIL LINE INSTALLATION KIT. See chart.

INSTALLATION PARTS

Description	Part #	
Oil Line Install Kit	Wrinkle Black	310-0870
for 2006—'17 Dyna® Models	Silver	310-0871
Oil Line Kit for 2007—'16 tourin	310-0435±	
Transmission Drilling Fixture K for 2007—'16 touring models	530-0006	
Head Mount Bracket	2009-'16 touring	900-0798
neau Mouiit Dracket	2008 touring	900-0797
Fuel Injector 2 pack		550-0603

Description	Part #
70mm Induction Kit* 2008–'16 touring (includes injectors)	170-0253±
70mm Induction Kit Cable operated 2007–'17 Dyna® models & 2007 touring models (includes injectors)	170-0288
Exhaust Flange Starter Kit	550-0216

*Includes a 70mm S&S Throttle Hog specially designed for the T143 engine in which a functional, stock, throttle by wire throttle body must be supplied to build. See page 104 for more details.

*WARNING: Cancer and Reproductive Harm



FITMENT

- 2007—'16 touring models (except Twin-Cooled™ models)
- 2006—'17 Dyna® Models

FEATURES AND BENEFITS

- No fuel system or ignition systems included Use what you already have
- Special Head machining—Fits stock length intake manifolds (S&S manifold size
- Stock style breathing system—stock breather spacing and function is compatible with stock and most performance air cleaners
- Super Stock™T2 Crankcase
- 3 Piece Flywheels
- TC3 Oil Pump and Cam Plate
- S&S Easy Start gear drive cams
- Stock Twin Cam 96[™] bolt pattern

OPTIONS

- T111—111 cubic inches, perfect sport-touring engine
- T124—124 cubic inches, hot-rod performance, 640 Easy Start gear drive
- T124LC—124 cubic inches with slightly lower compression, 585 Easy Start gear drive cams
- Stone Gray powder coat finish that matches the Granite color of a "stock" CVO



• Stealth Air Cleaner Kits. See page 60

T124 ENGINES WITHOUT FUEL AND IGNITION SYSTEMS

Chassis Style	Displacement	Bore	Stroke	Cam	Piston Type	CR	Warranty	Finish	Part #
						10.8:1	2 Year	Black Edition	310-0835A
	174" 41%"			640	S&S Forged Flat Top			Wrinkle Black & Chrome	310-0400A
2007–'16					Tiat 10p			Stone Gray	310-0511A
touring models		41/8"	45/8"		S&S Forged			Black Edition	310-0836A
			585	Dished, 11cc	10.2:1	10.2:1 2 Year	Wrinkle Black & Chrome	310-0401A	
							Stone Gray	310-0512A	
2006–'17	42.411				S&S Forged		2 Year	Black Edition	310-0900A
Dyna® Models	Models 124" 41/8	41/8"	41/8" 45/8"	640	Flat Top	10.8:1		Wrinkle Black & Chrome	310-0882A
CTO				Specify		Specify	Varies	Specify	319-0010

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T111 ENGINES WITHOUT FUEL AND IGNITION SYSTEMS

Chassis Style	Displacement	Bore	Stroke	Cam	Piston Type	CR	Warranty	Finish	Part #														
2007—'16 touring models	111"	41/11	41/!!	585	S&S Forged S	S&S Forged	0.0:1		COSTorgad 0.9.1 2 Vary	21/	2.٧	2 V	2 Voar	2 Voar				0 9.1 2 Vone	1 2 Voor		9.8:1 2 Year	Wrinkle Black & Chrome	310-0402A
2007—'16 touring models	111"	41/8"	41/8"	585			3&3 Forged			9.8:1	2 Year	Black Edition	310-0834A										
CTO				Specify		Specify	Varies	Specify	319-0010														

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REQUIRES OIL LINE INSTALLATION KIT. See chart.

INSTALLATION PARTS FOR S&S T-SERIES T2 LONG BLOCK ENGINES

Description	Part #		
Oil Line Kit for 2007—'16 touring mode	310-0435±		
Transmission Drilling Fixture Kit	530-0006		
Oil Line Install Kit	Wrinkle Black	310-0870	
for 2006—'17 Dyna® models*	Silver	310-0871	

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*WARNING: Cancer and Reproductive Harm

COMPLETE ENGINE REBUILD GASKET KITS

S&S Engine Family	Bore Size	Part #
T-Series	41/8"	310-0335



ENGINE MANAGEMENT AND FUEL SYSTEMS

Cylinder heads on these engines are specially machined to compensate for the non-stock cylinder length. As a result, they are compatible with manifolds and throttle bodies with stock length intake runners. In addition, the breather vent bolt locations have been adjusted so they are in the stock location, so stock style air cleaner back plates will bolt up to these engines.

Will require early style sprocket shaft spacer for charging system us S&S pn 310-0761 for touring models.

For best performance, S&S Throttle Hog Throttle Body is recommended. See page 104.

№017 bia twins

SUPER STOCK™ T2 CRANKCASE

FITMENT

- 2007—'16 Harley-Davidson® touring models
- 2006—'17 Dyna[®] models

FEATURES AND BENEFITS

- Stock looking, but stronger—Thicker wall sections and superior 356-T6 aircraft grade aluminum
- Tough powder coat finish
- Reinforced front motor mount for extra strength
- Timken® sprocket shaft bearing—Strong enough for the most demanding applications Clearanced for strokes up to 41%6" and cams up to .720" lift
- Includes pinion and Timken® bearing
- Manufacturer's Statement of Origin (MSO) included
- Includes studs and cam bearings installed

KIT CONTENTS

- S&S crankcase
- Bearings and hardware
- Instructions

INSTALLATION PARTS

- S&S oil line kit (reauired)
- S&S transmission drilling fixture kit (recommended for easy installation)





310-0435±

INSTALLATION PARTS

Description	Part #	
Oil Line Kit for 2007—'16 touring models	310-0435±	
Transmission Drilling Fixture Kit		530-0006
Oil Line Install Kit	Wrinkle Black	310-0870
for 2006—'17 Dyna® Models	Silver	310-0871

Will require early

style sprocket shaft

spacer for charging system. Use S&S

pn 310-0761 for

touring models.

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**WARNING: Cancer and Reproductive Harm

SUPER STOCK™ T2 CRANKCASES FOR 2007-'16 HARLEY-DAVIDSON® FL BIG TWIN ENGINES

Bore Size	Stone Gray	Wrinkle Black	Silver
Stock Bore (Stock Bolt Pattern) 2007—'16 touring models	-	310-0367A ^{† ±}	310-0366A ^{†±}
Stock Bore (Dyna® models)	_	310-0878*	310-0881*
CVO 110 Stock Bore	310-0543A ^{†±}	-	_
41/8" Bore (Stock Bolt Pattern) 2007—'16 touring models	310-0503*±	310-0369*±	310-0368*±
41/8" Bore (Dyna models with Stock Bolt Pattern)	-	310-0856*	_
43/8" Bore (S&S Bolt Pattern) ^{††} 2007—'16 touring models	_	310-0371*±	310-0370*±
4.425" Bore 2007—'16 touring models	310-0691±	310-0690±	-
4.425" Bore (Dyna® models)	-	310-0859	-
Special Order	319-0025	319-0025	319-0025

⁺⁺Requires seperate purchase of tappet covers sets #330-0281

REPLACEMENT PARTS: SEE PAGE 118

CRANKCASE BREATHER REED VALVES

- Twin Cam 96[™]/103[™] (except "B" engines)
- S&S T-Series engines

FEATURES AND BENEFITS

Improved oil scavenging and reduced oil carryover

CRANKCASE BREATHER REED VALVES

Oil Pump Fitment	Year Application	Part #
For Engines with S&S Gear Oil Pump	2007—up S&S crankcases	310-0742
REPLACEMENT SPRING		•
Spring, Wave, 1.6" x 2" x 2", 2.8mm		31-2078





The crankcases breather valve for Twin Cam 96™/103™ engines was designed and developed for use with S&S Gear Oil Pumps and tappets, and may not be compatible with some aftermarket components.

Not available for Twin Cam 96[™]/103[™] "B" engines with internal balancers.

Does not fit with aftermarket oil pumps.



[†]Exempt from emissions tampering regulations under CARB EO# D-355-18 when used with stock bore cylinders

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^{**}WARNING: Cancer and Reproductive Harm

3 PIECE FLYWHEEL ASSEMBLIES

FITMENT

- 2007—'17 Harley-Davidson® big twins (except 2017 touring models)—Balanced and unbalanced models
- S&S T-Series Engine and Hot Set Up Kit® replacement flywheels

FEATURES AND BENEFITS

- Heat-treated 4140 material is harder and 114% stronger than stock
- New light weight connecting rod forgings
- Available with full width wristpin connecting rods
- 1.671" diameter crankpin increased contact area and tighter press fit for a stronger joint.
- No welding required!
- Integral mainshafts eliminates two potential points of weakness
- Consistent balance and precision machining Truer flywheels and less vibration Reduced mainshaft deflection at high rpm less vibration, reduced piston and rod side thrusting, prevents oil pump damage, fully compatible with gear drive cams
- Capable of higher rpm More available power!



FLYWHEEL ASSEMBLIES FOR 2007–2017 HARLEY-DAVIDSON® BIG TWIN MODELS (EXCEPT 2017 TOURING MODELS)

Engine Displacement	Stroke	Balanced to Total Piston Weight (gms)	Rod WP End Style	Sprocket Bearing Race	Harley-Davidson® Twin Cam 96®/103™	Harley-Davidson® Twin Cam 96B™/103B™
96, 103, 106 big bore, 110, 117	4.2/11	1025	C+	Yes**	320-0350	320-0356
w/S&S Pistons	43/8"	1035	Straight	No	320-0351	320-0357
96, 103, 110 w/Stock Pistons*	4.2/11	1025	T	Yes**	320-0352	320-0358
USA	4 3/8"	1035	Tapered*	No	320-0353	320-0359
S&S 106 Stroker***	4 ½"	1108	Straight	No	320-0450	320-0544
S&S 111	4 1/8"	1035	Straight	No	320-0407	320-0413
SE 120R (uses 7.575" length rods)	4 5/8"	1035	Straight	No	320-0523	320-0529
S&S 124	4 5/8"	1035	Straight	No	320-0464	320-0471
S&S 143 (uses 7.800" length rods)	4 5/8"	1290	Straight	No	320-0545	_
Special Order	Specify	Specify	Specify	Specify	329-0002	329-0002

^{*}Stock pistons in 2007 and later engines require rods with tapered wristpin ends.

Note - All S&S Flywheels for 2007 and later engines have 7.659" length connecting rods (except the SE120R & S&S 143, see chart).



Strokes longer than stock will require S&S Piston Oiler Set, part #31-2026.

2007-up stock rod length is 7.659".

Main Bearing Note: Most S&S flywheel assemblies for 1999–'17 big twin engines are designed for use with Timken® sprocket shaft bearings. They will fit directly in stock 1999—'02 Harley-Davidson'® crankcases and in all S&S crankcases for 1999-'17 big twin engines, with no modifications. However, stock 2003 and later engines use a roller type bearing for the sprocket shaft. S&S does offer flywheel assemblies that are compatible with late roller style stock sprocket shaft bearings, but they are not recommended for very large, high performance engines.

S&S strongly recommends retrofitting 2003—'16 model crankcases to accept a Timken sprocket shaft bearing. A Timken conversion sleeve such as Screamin' Eagle® #34822-08 or Jim's® #956 may be used. A charging system spacer for 1999—'02 model year is also required.

If you choose not to convert your crankcases to a Timken sprocket shaft bearing, S&S flywheels may be used in 2003 and later engines by either purchasing the stock compatible flywheels or by installing Harley-Davidson® bearing kit #24004-03B when using S&S flywheels designed for Timken bearings. This bearing kit adapts the S&S sprocket shaft so it is compatible with stock roller type bearings. Verify that the bearing kit contains the 24604-00D or 24607-07 sprocket shaft bearing. Do not use a 24604-00, 24604-00A, 24604-00B or 24604-00C bearing. Please be advised that if this type of bearing is used, sprocket shaft bearing failure WILL NOT be covered under warranty.

TRYING TO IDENTIFY AN S&S® FLYWHEEL? SEE FLYWHEEL I.D. CHART: PAGE 346

REPLACEMENT PARTS: PAGE 121

^{**}Note - Flywheel assemblies supplied with sprocket shaft bearing race installed are compatible with stock roller style sprocket shaft bearings. Assemblies with no race require a Timken® sprocket shaft bearing.

^{***4}½" stroke flywheels include 7.667" long connecting rods.

TC3 CAM PLATE

S&S cam support plates are just what the doctor ordered when repairing a damaged engine or installing new camshafts. CNC machined from forged aluminum for excellent strength and dimensional accuracy. S&S cam support plates are available to fit 1999—2006 and 2007—'17 Harley-Davidson® big twin engines. We don't want to encourage bad habits so plates for 1999-2006 are not compatible with stock spring-loaded chain tensioners, and require late style hydraulic tensioners and oil pump. We suggest the S&S TC3 oil pumps be installed with S&S TC3 Cam Plate.

FITMENT

• 2007—'17 big twins and 2006 Dyna models, except 2017 touring models

FEATURES AND BENEFITS

- Precision CNC machined forged aluminum
- Adjustable oil pressure regulator—adjust without removing plate from engine
- Passage plugs are removable for service
- Made In The USA

^{*}Not compatible with stock spring-loaded chain tensioners or stock 1999—2006 oil pumps. Hydraulic tensioners (Unless running gear drive cams) and 2007—later style oil pump is required.



TC3 CAM PLATE

Fitment	Part #
2006 Dyna® models & 2007—'17 bt except 2017 touring models	310-0625

TC3 OIL PUMP

If engine oil is the lifeblood of an engine, then the oil pump is its heart. If your engine needs a transplant, the S&S TC3 Oil Pumps are a great solution for worn out or destroyed stock units. Common causes of stock pump failure are debris and excessive pinion shaft run out. The new S&S oil pumps are much less likely to be damaged by either. Oh, and by the way, the S&S TC3 Oil Pumps pump and scavenge way more oil than stock. While you've got that engine apart, it would be a good time to install a forged S&S TC3 Cam Plate.

FITMENT

• 2007—'17 big twins and 2006 Dyna models, except 2017 touring models

FEATURES AND BENEFITS

- Consistent pressure and reliable scavenging
- Separate scavenge sections for flywheel cavity and cam chest—no interference
- Screens and magnetic traps help protect the scavenge rotors from debris
- Special design allows S&S pumps to tolerate more pinion shaft run out without damage
- Made in the USA!



TC3 OIL PUMP

Fitment	Part #
2006 Dyna® models & 2007—'17 bt except 2017 touring models	310-0641

TC3 OIL PUMP & CAM PLATE KITS



TC3 OIL PUMP AND CAM PLATE KITS

Fitment	Part #
2006 Dyna® models & 2007—'17 bt, except 2017 touring models	310-0732

REPLACEMENT PARTS: SEE PAGE 122 & PAGE 123



DIE CAST GEARCOVER

FITMENT

- 1999—'17 Twin Cam 88®, 96™ and 103™ (except 2017 touring models)
- S&ST-Series engines





DIE CAST GEARCOVER

Finish		Part #
Gloss Black	143"	310-1084
	124"	310-1085
	111"	310-1086
	143"	310-1087
Chrome^{\pm}	124"	310-1088
	111"	310-1089

^{**}WARNING: Cancer and Reproductive Harm

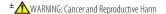
BILLET GEARCOVER

FITMENT

• 1999—'17 Twin Cam 88®/96™/103™ except 2017 touring models

BILLET GEARCOVER*

Finish	Part #
Polished	31-6516
Chrome [±]	106-3774









The S&S gearcover is not compatible with 1999—'01 engines with stock fuel injection or ignition systems which require a cam position sensor in the gearcover. May be used in 1999—'01 engines if an aftermarket ignition or fuel injection system that does not require a cam position sensor is installed.

CYLINDERS WITH PISTONS KIT

- Cylinder w/piston kits include fitted pistons and cylinders, head gaskets, base, and exhaust gaskets
- Cylinder kits with pistons are honed to fit the pistons included.

S&S® 4" BORE	S&5° 4" BORE BOLT-IN SIDEWINDER° KITS SPECIFICATION CHART								
						Compression Ratio			
Displacement	Stroke	Bore	Cylinder Length	Piston Type	Dome Volume	83cc CNC Heads	85cc Stock Heads	89cc S&S Heads	
110"	43/8	4.00"	4.937"	Forged	.75 pop up	10.7:1	10.5:1	10.2:1	

4" BORE BOLT-IN SIDEWINDER® BIG BORE KITS

Displacement	Silver	MSRP	Wrinkle Black
110	910-0650	\$1,178.95	910-0651

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PISTON REPLACEMENT PARTS: PAGE 84



S&S" 41/8" BORE	S&S® 4%" BORE CYLINDERS WITH PISTONS SPECIFICATION CHART FOR 124" AND 117" KITS									
Displacement	Stroke	Culindor Longth	Forged Piston	Compression Ratio						
Displacement Stroke	Cylinder Length	Туре	85cc stock heads	89cc S&S heads	91cc S&S heads	SE 95cc heads				
124"	4.625	5.004	Flat Top	11.4:1	11.0:1	10.8:1	10.5:1			
124" Dish	4.625	5.004	10.9 cc dish	10.6:1	10.2:1	10.2:1	9.7:1			
117"	4.375	4.878	Flat Top	10.9:1	10.5:1	10.4:1	10.0:1			
117" Dish	4.375	4.878	10.9 cc dish	10.0:1	9.7:1	9.5:1	9.3:1			
111"	4.125	4.754	Flat Top	10.3:1	9.9:1	9.8:1	9.4:1			

41/8" BORE CYLINDERS WITH PISTONS FOR 124" AND 117" KITS

Displacement		STOCK HEADS OR S&S HEADS WITH STOCK BOLT PATTERN					
	Stone Gray	Silver	Wrinkle Black				
124"	910-0469	910-0341	910-0338				
124" dish	910-0490	910-0327	910-0324				
117"	910-0474	910-0213	910-0221				
117" dish	_	910-0321	910-0318				

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42 S&S Late Models 1999–up

CYLINDERS WITH PISTONS KIT CON'T

S&S® BIG BORE KIT SPECIFICATION CHART FOR 106" & 107" KITS									
			Culindos	Formed Diston	Compression Ratio (with provided .045" head gasket)				
Displacement	Bore	Stroke	Cylinder Length	Forged Piston Type	79cc S&S Heads	83cc CNC Ported Stock Heads	85cc Stock Heads	89cc S&S Heads	
107"	3.937"	43/8"	4.937"	3cc Dome	N/A	10.7:1	10.5:1	10.1:1	
106"	3.927"	43/8"	4.937"	Flat Top	10.6:1	10.2:1	10.0:1	9.7:1	
Cylinder w/piston kits	Cylinder w/piston kits include pistons and cylinders that require no boring or honing.								

BOLT-IN BIG BORE KITS

Displacement	Silver	Wrinkle Black
107"	910-0480	910-0500
106"	910-0202	910-0206

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ALL OTHER BORES AND FINISHES ARE AVAILABLE THROUGH SPECIAL ORDER

91-7506* Call for Pricing



CYLINDERS

Individual cylinders and cylinder sets without pistons are bored slightly under nominal size and are not honed.

4.425" BORE CYLINDERS WITHOUT PISTONS FOR T143

Displacement		Stone Gray	Wrinkle Black
143"	Set	910-0562	910-0565

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41/8" BORE CYLINDERS WITHOUT PISTONS FOR 124" AND 117" HOT SET UP KITS (STOCK BOLT PATTERN)

Displacement		Stone Gray	Silver	Wrinkle Black
124"	Set	910-0494	910-0392	910-0401
117"	Set	910-0497	910-0231	910-0252

DISCLAIMER: FOR CLOSED COURSE COMPETITION USE ONLY. NOT INTENDED FOR STREET USE. LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES WHICH MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR USE. UPON A HIGHWAY. NOT LEGAL FOR SALE OR USE NATIONWIDE ON ANY FEDERAL POLLUTION CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT.



S&S 4½" pistons are machined to such close tolerances that it is not necessary to measure the piston. Additionally, the low friction coating on the piston skirt of early production pistons without micrometer window makes taking measurements very difficult. Therefore, hone cylinders to nominal diameter +/- 0.0001" for correct clearance. Current production pistons have micrometer windows in the coating on the piston skirts that allow accurate measurements to be taken. These pistons may be installed by honing cylinder to nominal diameter +/- 0.0001" or by measuring piston and honing cylinder to achieve .002"-.0025" close clearance for street applications or .0032"-.0045" loose clearance for immediate competition use.

3.937" BORE CYLINDER

Displacement		Silver	Wrinkle Black
107"	Front or Rear	910-0478	910-0477

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3.927" BORE CYLINDERS

Displacement		Silver	Wrinkle Black
106"	Front or Rear	910-0210	910-0212



S&S 3.927" & 3.937" pistons are machined to such close tolerances that it is not necessary to measure the piston. Additionally, the low friction coating on the piston skirt of early production pistons with out micrometer window makes taking measurements very difficult. Therefore, hone cylinders to nominal diameter +/- 0.0001" for correct clearance. Current production pistons have micrometer windows in the coating on the piston skirts that allow accurate measurements to be taken. These pistons may

be installed by honing cylinder to nominal diameter +/- 0.0001" or by measuring piston and honing cylinder to achieve .002"-.0025" close clearance for street applications or .0032"-.0045" loose clearance for immediate competition use.

3%" BORE CYLINDERS

Displacement		Silver	Wrinkle Black
103"	Set	910-0207	910-0208



S&S 37%" pistons for 103" kits are machined to such close tolerances that it is not necessary to measure the piston. Additionally, the low friction coating on the piston skirt makes taking measurements very difficult. Therefore, hone cylinders to nominal diameter +/- 0.0001" for correct clearance.



S&S Late Models 1999–up

PISTON KITS

• Piston kits include set of pistons, rings, wristpins, and clips

4" BORE FORGED PISTON KITS FOR 110

Displacement	Deck Height	Stroke	Standard
110	1.090"	43/8"	920-0127

4.425" BORE FORGED PISTON KITS FOR T143

Displacement	Deck Height	Stroke	Standard	+.020"
T143	1.167"	45/8"	920-0106	920-0111

41/8" BORE FORGED PISTON KITS FOR HOT SET UP KITS®

Displacement	Deck Height	Stroke	Standard	+.010"	+.020"	+.030"
124" & 117" 10cc Dished	1.050"	Up To 45%"	920-0046	920-0047	920-0050	920-0053
124", 117" & 111" Flat Top	1.050"	Up To 45%"	106-3491A	106-3872A	106-3964A	920-0094

10.6:1 HIGH COMPRESSION PISTONS FOR HARLEY-DAVIDSON® CVO™ 110 ENGINES

Fitment	Deck Height	Wristpin Diameter	Standard	+.010"
2007–'17 bt CV0™ 110" engines	1.0895"	.927"	920-0114	920-0115

3.937" BORE FORGED PISTON KIT

Displacement	Deck Height	Stroke	Standard
107", 3cc dome	1.085"	43/8"	920-0100

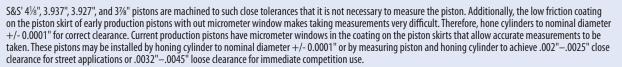
3.927" BORE FORGED PISTON KITS FOR 106" TOP END KITS

Displacement	Deck Height	Stroke	Standard	+.010"
106" Flat top	1.090"	43/8"	106-3690	106-4416

3%" BORE FORGED PISTON KITS FOR 103" ENGINES

Displacement	Deck Height	Stroke	Standard	+.005"	+.010"	
103" Forged, 5.2cc pop-up dome	1.083"	43/8"	106-0432	106-0433	106-0434	







REPLACEMENT PARTS FOR PISTONS

REPLACEMENT CHROMOLY FACED PISTON RINGS

Bore	Standard	MSRP	+.005"	+.010"	+.020"	+.030"
4.425"	940-0043	\$171.95	_	_	940-0044	_
41/8"	940-0014	\$64.95	_	940-0012	940-0013	940-0017
3%"	94-1290X	\$42.95	94-1294X	94-1291X	_	_
3.927"	106-3709A	\$54.95	_	106-4422A	_	_
3.937"	940-0032*	\$64.95	_	_	-	-
4"	940-0056	\$85.95	_	_	-	_
4.060" CVO 110"	940-0040	\$80.95	-	940-0041	-	-

^{*}Only includes one set of rings.

REPLACEMENT PISTON WRISTPINS

Description		Part #
	For 4.425" Pistons	940-0037
Muintoin	For 4 1/8", 3 7/8", 3.927" Pistons	106-1052
Wristpin	For 3.937" Pistons	940-0033
	For 4" Pistons	940-0057

REPLACEMENT PISTON KEEPERS

Description	Part #	
	each	94-9278-S
Keeper	2 pack	94-9278-2
	4 pack	106-2304
Keeper for 4.425"	each	94-9278-S
Keeper for 3.937" & 4"	2 pack	940-0034



POWER PACK

Bump 2007—'17 engines from 96ci or 103ci to 110ci with the new S&S 4" big bore kit. The kit also includes matched cams, cam plate, oil pump and everything else a high performance big inch engine needs to reliably make serious power.

FITMENT

• All 2007—'17 big twin models and 2006 Dyna® models, except 2017 touring models

FEATURES AND BENEFITS

- Largest big bore kit available without doing crankcase mods Upgrade Twin Cam 96® and Twin Cam 103™ to 110 cu inches Cylinders fit to pistons—No machining required
- All parts required to upgrade to gear drive cam or hydraulic tensioners Engineered package to deliver the best bolt-in performance available



POWER PACKAGE KIT

Fitment	Finish	Cam	Drive	Part #
2007—'17 except '17 touring models	Silver	585CE	Chain	330-0666
2007—'17 except '17 touring models	Silver	585GE	Gear	330-0667
2007—'17 except '17 touring models	Black	585CE	Chain	330-0668
2007—'17 except '17 touring models	Black	585GE	Gear	330-0669

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Pinion shaft runout must be less that .003" to use gear drive cams

Kit not available to fit '06 Dyna® models but parts may be purchased separately.

Not for use with S&S 79cc Cylinder Heads



CAMSHAFT OVERVIEW

OES: Original Equipment Specification (OES) A bolt-in replacement cam with stock cam timing is designed for riders with stock engines. Does not require tuning. Bolt-in stock. Equivalent to HD® A-Grind

510: Designed as a bolt-in cam for 88, 95, and 96 CID engines with compression ratios below 9.7:1, it is primarily intended for use with stock, un-ported heads. 3000—5500 rpm. Bolt-in.

551: Designed for engines with 96 to 106 CID and 9:1 to 9:9 compression, this is a bolt-in cam set designed for stock or mildly modified touring bikes. 551 cams are not recommended for compression ratios of 10:1 or greater. Greatly improves lowend and midrange torque, strongest from idle—4000rpm. Bolt-in torque.

557: Designed for Tri Glide® models, this bolt-in cam, with its short duration, produces lots of usable torque. The camshaft's stock base circle permits the use of stock pushrods. However, we recommend S&S Quickee Adjustable pushrods for easy installation. Fits all 2009—2012 Harley-Davidson® Tri Glide® models. Bolt-in.

MR103: Designed as bolt-in cams for 103 CID engines with stock 9.7:1 compression ratio up to 10.5:1. Works well with stock, un-ported heads, but is great for S&S CNC ported heads. More power across the rpm range best results form 2500—5500 rpm. Bolt-in.

570: Designed for 88 to 103 CID engines with compression ratios between 9:1 and 10:1, this bolt-in cam will provide a nice power increase across the entire power band. 3200–5700 rpm. Excellent bolt-in for overall power on 103". Bolt-in overall

583: Optimized for use in the Softail®/Dyna® lines, this bolt-in cam makes horse-power and torque that you can feel all the way through the rpm range, making the most power right where you need it:1500—5000rpm. Bolt-in. 583 cams are not recommended for enginess having comression ratios greater than 10.1:1.

HP103: Designed as bolt in cams for engines with 103 and stock 9.7:1 compression up to 10.5:1. Works well with stock, un-ported heads, but is great for S&S CNC ported heads. Best power in the higher rpm range, 3000—6000 rpm. Bolt-in.

585: Designed for 88 to 106 CID engines with compression ratios from 9.7:1 to 10.5:1 and 106 to 124 CID engines from 9:1 to 10:1 compression. This bolt-in cam provides massive horsepower and torque increases starting at 3000rpm and holds steady all the way to redline. 3500—6000 rpm for 88"—103" engines and 2500—5500 for larger engines.

625: Cam set designed for 95" or larger engines with compression ratios between 10.0 and 10.75:1. 3000—6000 rpm. High lift valve springs and adjustable pushrods required.

635 H.O.: High lift cam for modified engines with 106" or greater displacement and compression ratios between 10.0:1 and 11.0:1. Works well with stock, un-ported heads, but S&S CNC ported heads are recommended. Best power from 3000—6000 rpm. This is not a bolt-in cam set. High-lift valve springs, adjustable pushrods, and clearance checks are required.

640: Used in S&ST124 engines, this cam makes horsepower! Intended for engines of 95 CID or more w/compression ratios between 10.5:1 and 11.5:1. 3000–6000 rpm. High lift valve springs and adjustable pushrods required.

675: A high lift monster, this cam set is designed for 120" or larger engines with at least 11:1 compression ratio. 4500–6500 rpm. High lift valve springs and adjustable pushrods required.



S&S EASY START CAMS

Start any engine regardless of displacement or compression ratio, with a stock starter. Easy Start Cams from S&S® Cycle make hard starting obsolete for 1999-'16 big twins. Available in economical chain drive and rock-solid gear

drive versions. Don't get caught "dead" without them!

FEATURES AND BENEFITS

- · Start any engine with a stock starter
- Save your starter and battery!
- Reliable—tested for 100,000 accumulative starts and over 150,000 road miles without breakage or compression release failure!
- Automatic—no buttons to push

OPTIONS

• Chain drive or gear drive (See the following pages for part numbers)

HERE'S HOW IT WORKS

Each of the two exhaust cam lobes are equipped with a spring loaded compression release lobe on the "heel" of the cam at the point where the valve would normally be fully closed.

The lobe holds the exhaust valve open slightly at cranking speed.
This releases some of the compression, making the engine much easier to crank.
Once the engine starts, and rpm increases, the compression release lobe is centrifugally retracted and the engine runs normally, with full compression, and without any loss in performance. This allows a stock starter and battery to start nearly any engine.



The compression release lobe reduces compression until the engine starts.



Increased rpm causes the compression release lobe to be centrifugally retracted so the engine runs normally.



&S Late Models 1999-up

CAMSHAFT OVERVIEWCON'T

		Valve Timing	(open/close)	Valve Duration			Centerline		Lift @ TDC		APPLICATION CROSS REFERENCE CHART		
Cam Name	Bolt-In	Intake Open BTDC/	Exhaust Open BBDC/	Intake	Exhaust	Valve Lift	Intake	Exhaust	Intake	Exhaust	HD®	Andrews®	Most Fitting
		Close ABDC	Close ATDC	intukc	LAHOUSE		intake	LAHGUSC	iiitakc	LAHGUSC	Screamin' Eagle®	Andrews	Application
OES		-9°/25°	42°/-3°	196°	219°	.474"	107°	112.5°	.087"	.110"			
510	•	20°/38°	52°/20°	238°	252°	.510"	99°	106°	.187"	.178"			
551**	•	17°/19°	41°/17°	216°	238°	.550"	91°	102°	.178"	.170"	SE-203/255	21H/26H	Touring
557	•	6°/27°	39°/12°	212°	231°	.557"	100°	103°	.113"	.146"			Tri-Glide®
MR103		13°/33°	50°/22°	226°	252°	.585"	100°	104°	.172"	.177"			
570	•	20°/40°	55 °/20°	240°	255°	.570"	100°	107.5°	.187"	.179"	-	54H	All big twin
583	•	5°/18°	58°/24°	203°	262°	.583"	96.5°	107°	.113"	.206"	SE-203/255	21H/26H	Softail®/ Dyna®
HP103		20°/49°	45°/26°	249°	251°	.575"	104.5°	99.5°	.199"	.206"			
585	•	20°/45°	60°/20°	245°	260°	.585"	102.5°	110°	.186"	.179"	SE-21 1/251/257	31H/32H/50H 55H/67H	All big twin
625		20°/55°	60°/20°	255°	260°	.625"	107.5°	110°	.189"	.184"	SE-258/260	60H	All big twin
635H.O.		19.5°/43.5°	58.5°/37.5°	243°	276°	.635"	102°	100.5°	.186"	.284"			
640		25°/60°	65°/25°	265°	270°	.640"	107.5°	110°	.228"	.214"	SE-264	59H	All big twin
675		25°/64°	70°/25°	269°	275°	.675"	109.5°	112.5°	.235"	.205"	-	64H	All big twin



Stock valve springs in 2005—up engines can accommodate valve lifts up to .590".

GEAR DRIVE CAM KITS

FITMENT

• 2006 Dyna® and 2007—'17 big twins, except 2017 touring models

FEATURES AND BENEFITS

- Improves valve timing accuracy by eliminating timing chain lash
- Easy Start cams allow stock starter to start any engine
- · No tensioner shoes to wear out or fail

OPTION

Which S&S Gear Drive Cam Kit to Order?

- If updating a stock chain drive system, it's easiest to order a complete kit. Includes:
 - Camshafts with inner gears
 - Outer cam drive gear kit
 - Camshaft installation kit
- If replacing cams in an engine already equipped with S&S gear drive cams, order cams with inner gears and reuse the existing outer gears. Camshaft installation kit for the appropriate model year is recommended.
- If installing a set of gear drive cams from another manufacturer, order S&S cam gear kits for the appropriate model year. Each kit provides the inner & outer cam gears.
 Camshaft installation kit for the appropriate model year is recommended.



106-5737

GEAR DRIVE CAMS FOR 2007—'17 BIG TWIN MODELS (EXCEPT 2017 TOURING MODELS)

		Easy Start Cams	;		Standard cams	
Cam Name	Complete Kit**	Can	ns w/Inner Gears†	Complete Kit**	Cams w/Inner Gears†	
	Stock Oil Pump	Stock Oil Pump	S&S Gear Oil Pump	Stock Oil Pump	Stock Oil Pump	
510	_	_	_	33-5266	33-5246	
551	106-5737	106-5736	_	106-4868	106-4870	
557*	330-0057	330-0056	_	330-0109	-	
570	106-5221	106-5220	_	33-5267	_	
583	106-5811	106-5810	_	330-0111	_	
585	106-5225	106-5224	330-0145	33-5268	33-5248	
625	106-5229	106-5228	_	33-5269	33-5249	
640	106-4850	106-4849	330-0144	33-5270	_	
675	106-5741	106-5740	_	330-0113	_	
MR103	330-0303	330-0302	-	_	_	
HP103	330-0354	330-0353	-	330-0350	330-0349	
635 H.O.	330-0339	330-0338	330-0369	330-0335	330-0334	

2006 Dyna® uses 2007-up style cams.

*For Harley-Davidson® Tri Glide® models.

**Complete kits include inner and outer gears and installation kit.

†Installation kit not included but reccommended.

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INSTALLATION KIT FOR S&S GEAR DRIVE CAM*

Models	Part #
2006 Dyna® and 2007—'17 big twins, except 2017 touring models	106-6068

Includes a gearcover gasket, bearings, oil passage block-off kit, retaining ring, o-ring, thread lock and instructions. *This kit is included with all Complete Gear Drive Cam Kits.



106-5723

Oil passage block-off kit

Use this kit to block oil passages in cam plate when hydraulic cam chain tensioners are removed to install gear drive cams. Fits any cam plate designed for hydraulic tensioners. This oil passage block-off kit is included in the cam installation kit, part #106-6068.



Fuel injection tuning required.

Pinion shaft run-out must be checked before installing S&S® gear drive cams.

A hydraulic press and other professional tools are required to install S&S gear drive cams. Additionally, material must be removed from the inner surface of the stock gearcover. The stock crankcase may require clearancing for S&S .625", .640", and .675" lift cams. S&S recommends that gear drive cams be installed by a professional mechanic.

Due to the inheraent characteristics of gear drives, you may experience more valve train noise with gear driven cams. Oversized and undersized gears are available to help achieve correct gear lash. We have found that with 160 lb. of valve seat force, the S&S gear drive cams will perform well up to 6200 rpm. If higher rpm is anticipated, valve springs that provide higher seat force should be used.

S&S can do a special order cam. Contact your S&S Customer Service Representative for more information.



CHAIN DRIVE CAM KITS

FITMENT

• 2006 Dyna® and 2007—2017 big twins, except 2017 touring models

FEATURES AND BENEFITS

- Great way to increase performance at an affordable price
- Quick installation—reuse many stock components
- Easy Start cams allow stock starter to start any engine



KIT CONTENTS

- Cams
 Installat
- Installation Kit: gearcover gasket, bearings, retaining ring, o-ring, thread lock
- Instructions



S&S CHAIN DRIVE CAM KITS FOR 2007-'17 BIG TWIN MODELS

(FXCFPT 2017 TOURING MODELS)

(LACEL I ZOTA TOOMING MIODELS)							
Standard	MSRP	Easy Start					
330-0293	\$352.95	_					
106-4380	\$352.95	_					
106-4858	\$352.95	106-4947					
330-0105	\$352.95	330-0053					
106-4381	\$352.95	106-5234					
330-0106	\$352.95	106-5807					
106-4382	\$352.95	106-5233					
106-4383	\$352.95	106-5239					
106-4399	\$352.95	106-5235					
330-0470	\$352.95	330-0299					
330-0343	\$352.95	330-0346					
330-0328	\$352.95	330-0331					
	Standard 330-0293 106-4380 106-4858 330-0105 106-4381 330-0106 106-4382 106-4383 106-4399 330-0470 330-0343	Standard MSRP 330-0293 \$352.95 106-4380 \$352.95 106-4858 \$352.95 330-0105 \$352.95 106-4381 \$352.95 330-0106 \$352.95 106-4382 \$352.95 106-4383 \$352.95 106-4399 \$352.95 330-0470 \$352.95 330-0343 \$352.95					

Note: 2006 Dyna® uses 2007-up style cams. *For Harley-Davidson® Tri Glide® models.

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REPLACEMENT INSTALLATION KIT FOR S&S CHAIN DRIVE CAM*

Models	Part #				
2006 Dyna® and 2007—'17, except 2017 touring models	106-5929				

Includes a gearcover gasket, cam bearings, retaining ring, o-ring, thread lock and instructions.



Fuel injection tuning required.

551, 557, & 583 cams are not recommended with compression ratio of 10:1 or higher.

0ES & 510 cam recommended over 9.7:1

S&S can do a special order cam. Contact your S&S Customer Service Representative for more information.

CAM RELATED REPAIR PARTS







33-4285

REPLACEMENT GEARS* FOR 2006 DYNA® AND 2007—'17 MODELS

(EXCEPT 2017 TOURING MODELS)

(EMCELLI ZOLL LOCALING MODELS	<u>/</u>	
Description		Part #
Outer cam drive gear only	330-0621	
Front inner cam gear		330-0593
	Standard	330-0593
Rear inner cam gear	Undersized	330-0594
	Oversized	330-0595
	Standard	330-0622
Pinion Gears	Undersized	330-0626
	Oversized	330-0627

^{*}Due to machining variations in the stock cam plate, oversized or undersized gears may be needed to achieve correct gear lash.

CAM GEAR DRIVE KIT

Fitment	Part #
2006 Dyna® and all 2007–'17 models, except 2017 touring models	33-4285

Includes front and rear inner cam gears, pinion gear, and outer cam gear

OUTER CAM GEAR DRIVE KIT

Fitment	Part #		
2006 Dyna® and all 2007—'17 models, except 2017 touring models	33-4268		

Includes 2 outer gears and hardware

REPLACEMENT HARDWARE FOR OUTER CAM GEAR DRIVE

Description	Part #
Hardware Kit for 2006 Dyna® and all 2007—'17 models, except 2017 touring models	33-4271P
Replacement Key for 2006 Dyna® and all 2007—'17 models, except 2017 touring models	106-1348

CAM NEEDLE BEARINGS ASSEMBLIES

Description		Part #	
	each	31-4199-S <i>9215</i>	
Inner Cam Bearing	2 pack	31-4499 <i>9215</i>	

All reference to HD® part numbers is for identification purposes only. We in no way are implying that any of S&S Cycle's products are original equipment parts or that they are equivalent to the corresponding HD® part number shown.

^{*}This kit is included with all S&S Chain Drive Cam Kits.

CAM CHEST UPGRADE GEAR OR CHAIN DRIVE

FITMENT

• 2007—'17 Harley-Davdison® big twins (except 2017 touring) & 2006 Dyna® models

FEATURES

- Upgrade to S&S bolt-in performance chain drive or gear drive camshafts
- Improved engine performance—higher lift and optimized cam timing
 S&S Quickee pushrods—easy installation, without removing rocker covers
- Replace stock oil pump, cam support plate, cams, chain tensioners, and tappets with all new premium U.S. made S&S components
- Better, more consistent oil pressure



Fitment	Cam	Part#
	551CE	330-0544
	Easy Start	330-0344
	583CE	330-0545
2007 up ht and 2006 Duna models	Easy Start	330-0343
2007—up bt and 2006 Dyna models	585CE	330-0546
	Easy Start	330-0340
	585C	220 0552
	Standard	330-0553

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GEAR DRIVE CAM CHEST UPGRADE KIT FOR 2007-'17 BIG TWIN (EXCEPT 2017 TOURING) & DYNA® MODELS

Fitment	Cam	Part #
	510G Standard	310-0814
2007—up bt and 2006 Dyna Models	551GE Easy Start	310-0815
	585GE Easy Start	310-0816

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HYDRAULIC CAM CHAIN TENSIONER KIT

FITMENT

- 2007—'17 except 2017 touring & 2006 Dyna® models
- 1999—'06 models with hydraulic cam plate upgrade

FEATURES

- Thicker shoe for longer wear
- Direct chain oiling
- Larger piston
- Tighter tolerance for improved stability
- Made in USA

HYDRAULIC CAM CHAIN TENSIONER KIT

Fitment	Part #
2007—'17 except 2017 touring models	330-0518

REPLACEMENT PARTS

Description	Part #
Tensioner, Asm, Inner, Body, Cam Chain	330-0519
Tensioner, Assembly, Outer, Body, Cam Chain	330-0520
Tensioner Shoe, Chain, Camshaft	330-0521



High performance tappets are a cornerstone of the S&S line up and we are always looking to improve our products. After months of research and countless hours of testing we are excited to reveal the latest in performance tappets. The S&S Cycle Precision Tappets replace both our standard as well as premium tappets. Each Precision Tappet is hand assembled to exacting tolerances and designed for guiet operation and rapid pump up and all are made in the USA.

FITMENT

- 1999–2017 big twins
- S&S T-Series engines

PRECISION TAPPETS

Set of 4 tappets

330-0718

FEATURES

- Reduced valve train noise from start up to shut down
- Close tolerances for low leak down rates
- Fast pump up and superior high rpm performance



TAPPET COVERS

FITMENT

- 1999-'17 big twins, except 2017 touring models
- S&S crankcases

KIT CONTENTS

- Covers
- Gaskets
- Installation hardware

FEATURES AND BENEFITS

- CNC billet aluminum provides extra strength and dimensional stability over a wide temperature range
- Simple to install upgrade that looks great

TAPPET COVER KITS

Finish	Part #
NEW FOR 2020 Gloss Black	330-0588
Polished	33-5601 (USA)
Chrome	106-3883±
Gloss Black 43/8" style	330-0589
Chrome	330-0281 [±]

^{**}WARNING: Cancer and Reproductive Harm

REPLACEMENT PARTS FOR TAPPET COVERS

Descriptions		Part#	
Gasket	each	33-5303-S 18635-99B	
dasket	2 pack	33-5303-2 18635-99B	
Tappet Cover Gasket 43/8" style	each	330-0282	
C	each	50-0092-S 4741A	
Screw w/flat washer, Zinc	4 pack	50-0092P 4741A	
Screw, Chrome	each	50-0482±	
Washer, Flat, Chrome	each	50-7017 [±]	

^{*}WARNING: Cancer and Reproductive Harm



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33-5601

TIME-SAVER ADJUSTABLE PUSHRODS

FITMENT

• 1999—'17 big twins, except 2017 touring models

FEATURES AND BENEFITS

- No need to remove rocker arms to install
- Speeds up installation of cams and rockers arms
- Makes upper-engine work easy!
- Can be installed with stock pushrod tubes

TIME-SAVER ADJUSTABLE PUSHRODS

Description	Part #
Pushrod Set	930-0053

QUICKEE ADJUSTABLE PUSHRODS

FITMENT

• 1999—'17 big twins (except 2017 touring models) w/stock engine height +/- .050"

FEATURES AND BENEFITS

- Adjustable to accommodate all tappets and cam base circle diameters and engine heights
- Easy to install—removal of rocker arms not needed
- No threads on wrench flats
- · Also available in gloss black

KIT CONTENTS

 Pushrods, gloss black or chrome pushrod covers, o-rings, and cover keepers

GLOSS BLACK ALSO AVAILABLE



When a Quickee adjustable pushrod is collapsed, it can easily be installed or removed from an assembled engine.



QUICKEE ADJUSTABLE PUSHRODS

Description	Part #	
Gloss Black Pushrod Kit (includes black pushrod covers, o-rings & cover keepers)	930-0143	
Chrome Pushrod Kit (includes chrome pushrod covers, o-rings & cover keepers)	106-6051 ±🕬	
Pushrods Only*	93-5122 🕮	

93-5095±

Longer keepers are required for taller than stock engines, page 94 of this catalog for pushrod cover keepers.

- *1984-'99 style pushrod covers are required for access to the Quickee Adjustable Pushrod adjusters in 2007—'12 big twins. page 94 for pushrod covers.
- **WARNING: Cancer and Reproductive Harm

STANDARD ADJUSTABLE PUSHRODS

- 1999—'17 big twins, except 2017 touring models
- Lengths available for various displacements

FEATURES AND BENEFITS

Adjustable to accommodate all tappets & cam base circle diameters

KIT CONTENTS

• Pushrods, chrome pushrod covers, tappet cover gaskets, o-rings, cover keepers

STANDARD ADJUSTABLE PUSHRODS FOR HARLEY-DAVIDSON® TWIN CAM 96™/103™

Displacement	Engine Height	Cylinder Length	Pushrod Kit	Pushrods Only	Pushrod Covers	Cover Keepers
96", 103", 106"	Stock	4.937"	93-5095± 🕬	93-5096	106-1340± 🕬	93-4100
124"	+.096"	5.013"	_	93-5098	106-1340± 🕬	93-4115
143"	+.2875"	5.057"	_	930-0103	106-1340±	93-4102

*Custom, extra long stainless steel 4.250", customer to cut to required length



^{*}WARNING: Cancer and Reproductive Harm

NON-ADJUSTABLE PUSHRODS

- 2007—'17 Harley-Davidson® Twin Cam 96[™] and 103[™] big twin enginess, except 2017 touring models
- S&S T111 Engines

NON-ADJUSTABLE PUSHRODS

Description	Part #
Pushrods Only (stock replacement)	930-0046
Replacement Pushrods for S&S T111	930-0144

FEATURES AND BENEFITS

- Replaces stock pushrods perfectly
- 7/6" high strength chromoly steel tubing for increased strength
- Pushrods are marked with stock color code and valve position for easy installation



PUSHROD COVERS & RELATED PARTS

PUSHROD REPLACEMENT PARTS			
Description		Part #	
Pushrod Cover Kit (includes top & bottom covers, cover cap, cover	Chrome	106-1340	
spring, spring washer, & o-rings for four pushrods)	Gloss Black	930-0124	
		93-4016	
Top Cover OSA USA 1,2,5	3	17935-66T, 17935-79B	
Bottom Cover USA 1,2,3		93-4015 <i>17938-83</i>	
Cover Cap USA _{1,2,3}		93-4017 17945-36B	
Cover Spring USA _{1,2,3}		93-4018 17947-36	
Cover Cap Washer		50-7131 6762B	
Pushrod O-ring Kit (includes top, middle, & bottom o-rings for four pushrods)		93-4022 11293, 11157, 11101, 11190	
Top O-ring		50-8039	
Middle O-ring		50-8038 11132A	
Bottom O-ring		50-8037 11145A	











PUSHROD COVER KEEPER SETS FOR 2007-'17 BIG TWINS

Length / Finish		S&S Tubes	Part #
2.390" / Gloss Black			930-0127
2 40011 / 61	2.400" / Chrome		93-4070 [±]
2.400" / Chi	rome 🗪	TC 96/103	17950-48
2.500"	Chrome	96", 100", 117",	93-4100 [±]
2.300	Gloss Black	103", 106" HSU	930-0142
2.600"	Chrome	124"	93-4101±
2.000	Gloss Black	124	930-0128
2 00011 / 61	anak-		93-4115±
2.800" / Chr	rome 🗫		17950-86
2.900"	Chrome	143"	93-4102 [±]
2.900	Gloss Black		930-0126
3.000" / Chr	rome		93-4103±
3.100"	Chrome		93-4104 [±]
3.100	Gloss Black		930-0125
3.200" / Chr	rome		93-4105 [±]
3.330"/Chr	- And -		93-4106 [±]
3.330" / Cnr	ome 🗪		17949-40, 17950-66
3.500" / Chr	rome		93-4107 [±]
3.625" / Chr	rome		93-4108±
4.250"*			93-4109

*Custom, extra long stainless steel 4.250", customer to cut to required length

*WARNING: Cancer and Reproductive Harm



All S&S pushrod keepers are chromed steel, except part #93-4109. Keeper part #93-4109 is intended for unusually tall engines. It is manufactured of unchromed stainless steel to prevent rust or peeling after it is trimmed to the required length.

All reference to HD® part numbers is for identification purposes only. We in no way are implying that any of S&S Cycle's products are original equipment parts or that they are equivalent to the corresponding HD® part number shown.

660" & 720" VALVE SPRINGS KITS FOR B3 HEADS

FITMENT

Modified Harley-Davidson® 1984—up big twin and 1986—'03 Sportster® Models For S&S® Super Stock®, Special Application, or other heads which can accept a larger than stock O.D. outer spring. Stock spring O.D. is approximately 1.400". See descriptions below for outer spring O.D. of specific spring kits. S&S racing valve springs are designed to be used with "no shoulder" style valve guides. Special keepers fit stock 5/6" diameter stemmed valves and S&S collars only. Pro Stock spring kits include keepers for valves with 11/32" or 5/6" stems.

KIT CONTENTS

4 titanium top collars, 4 bottom collars, 4 outer, 4 middle, and 4 inner valve springs, 8 valve keepers, 4 each .015" shims and .030" shims.

.660" LIFT TRIPLE VALVE SPRING KIT WITH TITANIUM TOP COLLARS

- Typically used with cast iron guides
- 1.900" installed height
- 1.550" O.D. outer spring, middle spring is flat style and serves as a harmonic dampener
- Valve spring seat pressure equals 210 lbs
- Open pressure @ .660" is about 520 lbs
- Coil bind @ 1.175"

.720" LIFT TRIPLE VALVE SPRING KIT WITH TITANIUM TOP COLLARS

- Typically used with bronze guides
- 1.975" installed height
- 1.570" O.D. outer spring
- Valve spring seat pressure 216 lbs
- Valve spring open pressure @ .720" is 540 lbs
- Coil bind @ 1.130"

VALVE SPRING REPLACEMENT PARTS: SEE PAGE 130



.660" & 720" LIFT VALVE SPRING KIT FOR B3 HEADS

Description	Part #
.660" Lift Triple Valve Spring	90-2079
.720" Lift Triple Valve Spring	90-2080

REPLACEMENT PARTS

Description		Part #
Top collar - titanium .660"/.720" lift		90-2155A
Bottom collar660"/.720" lift each		90-2090
Valve keeper 5/16" valve stem SA each		90-2153A
	each	90-2086
Shim015"	5 pack	50-7161
Shim030"	each	90-2087
3NIM030	5 pack	90-2198



The .660" lift kit (90-2079) can be used to replace the S&S spring combination installed in early .630" lift S&S heads. Requires the use of S&S .085" longer intake valve 90-2004 and exhaust valve 90-2005.

650" VALVE SPRINGS KITS FOR B2 HEADS

FITMENT

S&S® B2 heads

FEATURES AND BENEFITS

- Works well with cams up to .650" lift
- Manufactured from ultra clean high silicon Kobe alloy wire then micro shot peened and nitrided
- High performance conical single wire spring
- Chromoly forged retainers

KIT CONTENTS

• Valve keepers, top & bottom collars, springs, shims

	S&S®.650" LIFT VALVE SPRING KIT FOR B2 HEADS				
Lift Installed Height Seat Force Force @ Max Lift		Max RPM			
	.650"	1.860"	178 lb.	376 lb.	6500

.650" LIFT VALVE SPRING KIT FOR B2 HEADS

Description	Part #
Spring, Kit, Valve, Dual, .650", Chrome Silicone Steel, 1984-2004 bt, 1986-2003 xl	900-0050



SIDEWINDER® .650" VALVE SPRINGS

FITMENT

- Stock 2005—'17 Twin Cam 96™/103™ big twins (except 2017 touring models) with 7mm valve stems
- All S&S CNC ported heads

	S&S® .650" LIFT VALVE SPRINGS SPECIFICATIONS				
Lift Installed Height Seat Force Force @ Max Lift Max RI		Max RPM			
	.650"	1.860"	178 lb.	376 lb.	6500

FEATURES AND BENEFITS

- Works well with cams up to .650" lift
- Manufactured from ultra clean high silicon Kobe alloy wire then micro shot peened and nitrided
- CNC machined 9° locks
- High performance conical single wire spring
- Chromoly forged retainers

KIT CONTENTS

• Valve keepers, Top & Bottom collars, Springs, Shims



.650" LIFT VALVE SPRING KIT

Description	Part #
2005—'17 big twins (7mm stems) except 2017 touring models	106-5909



S&S recommends roller rocker arms be used with lifts over .585"

STREET PERFORMANCE .585" VALVE SPRINGS

FITMENT

- 2005—'17 big twins with 7mm valve stemmed stock heads (except 2017 touring models)
- All S&S Super Stock Heads
- S&S CNC Ported Heads

S&S® STREET PERFORMANCE .585" VALVE SPRINGS SPECIFICATIONS			
Lift	Installed He	eight Seat Force	Force @ Max Lift
.585"	1.850"	135 lb.	325 lb.

FEATURES AND BENEFITS

- Springs reduce the risk of valve float
- Suitable for high performance applications
- Accommodates camshaft lift to 0.585"

KIT CONTENTS

· Valve Guide Seals, Springs, Top & Bottom Collars, Keepers, Shims

STREET PERFORMANCE .585" VALVE SPRING KIT

Description	Part #
2005—'17 big twins (7mm stems) except 2017 touring models	900-0594
All S&S Super Stock Heads	900-0595
S&S CNC Ported Heads	900-0596



S&S Late Models 1999-up

VALVE SPRING REPLACEMETNT PARTS: SEE PAGE 130

FORGED ROCKER ARMS

FITMENT

• 1999–2017 big twins (except 2017 touring models)

FEATURES AND BENEFITS

- **Roller Rocker Arms:**
- Extremely durable rollers reduce valve stem side thrusting with high lift cams
- Superior wear and fatigue resistance even in the most demanding applications
- ¾" long bushings provide 50% more bushing support area than ½" long bushings
- Available in stock 1.625:1 ratio or performance 1.725:1 ratio
- **Standard Rocker Arms:**
- 34" long bronze bushings provide 50% more load bearing area than the ½" long bushings used in stock and other aftermarket rocker arms
- Case carburized hard surface for longer life
- Stock 1.625:1 ratio

KIT CONTENTS

• 2 front and 2 rear rocker arms



FORGED ROLLER ROCKER ARM KIT

Description		Part #
2 front and 2 rear rocker arms	1.625:1	900-4065A 🕬
	1.725:1	900-4098A

Adjustable pushrods must be used with S&S roller rocker arms to obtain proper valve clearance. New rocker arm shafts are recommended for maximum performance and rocker life.

STANDARD FORGED ROCKER ARM KIT



Description		Part #	
2 front and 2 rear rocker arms	1.625:1	900-4119A 🕶 🖜	

New rocker arm shafts are recommended for maximum performance and rocker life.

ROCKER ARM SHAFTS

Description	Part #
Set of 4	90-4036 17611-83B
Individual	90-4006
marriada.	17611-83B

New rocker arm shafts are recommended for maximum performance and rocker life.

REPLACEMENT PARTS FOR FORGED ROCKER ARMS

Rocker Arm Type	Description	Part #				
Roller	Front exhaust or rear intake rocker arm	900-4065FA (5A _{1,2,3}				
Kollei	Rear exhaust or front intake rocker arm	900-4065RA (SA _{1,2,3}				
Standard	Front exhaust or rear intake rocker arm	900-4119FA 🍑 17375-83A				
Stalluaru	Rear exhaust or front intake rocker arm	900-4119RA 🕬 17360-83A				
Roller	Rebuild kits (rebuilds 4 rocker arms)	90-4104				
Roller & Standard	Rocker arm bushing (¾" long)	90-4014				

90-4104





S&S roller rocker arms are recommended for use with cams having more than 0.585" of lift. Adjustable pushrods must be used with S&S roller rocker arms to obtain proper valve clearance. New rocker arm shafts are recommended for maximum performance and rocker life.





B2 HEADS WITH STOCK BOLT PATTERN

Kits do not include gaskets, hardware, or intake and exhaust flanges. These parts must be purchased separately.

FITMENT

- 1999—'17 big twin engines (except 2017 touring models) 41/8" bore, stock bolt pattern (in stock, off-the-shelf*)
 - *S&S only stocks the late model 41/8" bore versions as off-the-shelf items, but heads for other applications and individual front of rear replacement heads are available by special order.
- 1999—'17 big twin engines (except 2017 touring models) 41/8" bore and larger with S&S or other bolt pattern (special order only)
- 1984—'99 big twin engines 41%" bore and larger (special order only)
- Not compatible with Twin-Cooled™ models

FEATURES AND BENEFITS

- 106cc combustion chambers
- Oval intake ports bolt up to S&S Throttle Hog 70mm throttle bodies (2008—up touring applications only)
- Stock style breather system—compatible with stock and aftermarket air cleaners
- Large 2.200" intake and 1.800" exhaust valves
- .660" lift S&S valve springs with titanium top collars
- Machined for stock sensors—EFI ready
- Available in Wrinkle Black or Silver powder coat

OPTIONS BY SPECIAL ORDER

- CNC ported intake and exhaust ports—more air, more power!
- Two-bolt exhaust flanges—Can accommodate stock exhaust headers, existing 2" headers, or build your own 2" exhaust system
- Machined for 2008-later bagger front motor mount
- Select heads for 1984—'99 or 1999—'17 big twin style, or 1986—'03 XL
- 41/8" to 43/8" bore sizes
- Stock 1999—'17, S&S, or other cylinder stud patterns—other patterns subject
- Machined with or without S&S electric compression release
- Choose from a variety of pushrod geometry machining styles
- Choose from a variety of different chamber sizes
- Individual front of rear heads available by special order



B2 HEADS WITH STOCK BOLT PATTERN

Finish	Part #
Silver Powder Coat	900-0450
Wrinkle Black Powder Coat	900-0458

*Head Kits include valves and valve springs. Head sets w/o valves or springs individual front or rear heads are available by special order.

Special Order B2 Cylinder Heads	106-6385*
Special Order B2 Cylinder Heads	100-6385^

ADDITIONAL PARTS REQUIRED

Product Description		Part #
Special 41/8" Bore	Standard	92-1580
Pistons & Ring Set	+.010"	92-1581
Special Length Pushrods	For 124" engines	93-5106
(+.250")	Stock height engines	93-5098
Intake Manifold	Carbureted engines	16-3629*
Intake Manifold Flange Kits	All B2 heads	16-0250
	B2 to stock header	550-0217
Exhaust Adaptor Kit	B2 to exisiting 2" header	550-0216
	Stock & 2" header	550-0218

REPLACEMENT PARTS: PAGE 126



Heads are .230" taller than stock—requires special pushrods and/or frame clearancing or motor mount modifications Exhaust pipe adaptor kits and other parts must be purchased separately. See "Additional Parts Required" chart, above.

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SUPER STOCK® CYLINDER HEADS

FITMENT

- 2006–2017 big twins, except 2017 touring models
- Not compatible with Twin-Cooled™ models

FEATURES AND BENEFITS

- Heads can be decked up to .060" to increase compression 79cc heads 1.940" intake and 1.575" exhaust valves
- 89cc heads have 2.000" intake and 1.605" exhaust valves
- 91cc heads have 2.000" intake and 1.605" exhaust valves
- S&S 89cc heads have a whopping 264cfm flow rate (compared to 182cfm for stock
- S&S .585" or .650" lift valve springs
- Must use the included S&S valve cover gasket kit part #90-4120 with stock rocker covers
- 2006—'17 heads are machined for 2008—'17 FL top motor mount

- Includes 4 long headbolts for installation
- Compatible with stock rocker boxes, exhaust and intake manifolds

OPTIONS

- Compression release machining or without compression release machining (Compression release machining for S&S compression releases)
- Silver, Wrinkle Black, or Stone Gray powder coat finish

COMPRESSION RATIOS FOR S&S® SUPER STOCK® CYLINDER HEADS FOR 2006—'17 BIG TWINS (EXCEPT 2017 TOURING MODELS)								
Configuration 96" 103" 106" Big Bore 110" 111" 117" 124"								
79сс	9.8	10.2/11.1*	10.6	10.8	-	-	-	
89сс	8.9	9.3/10.1*	9.7	9.8	-	-	-	
91cc	-	-	-	9.6	9.75	10.3	10.8	
*S&S non-un niston	*Se non-un nistrin							



SUPER STOCK® CYLINDER HEAD KITS FOR 2006-'17 BIG TWINS

Description	Chamber Volume	Manifold** Surface	Release Machining	Springs	Finish	Part#
2006—'17 big twins	79cc		•	.650"	Silver	106-3227
except 2017 touring models	/900		•	.650"	Wrinkle Black	106-3233
2006—'17 big twins	89cc		•	.650"	Silver	106-3255
except 2017 touring models	89cc		•	.650"	Wrinkle Black	106-3240
		+.032"	•	.650"		106-4278
	91cc	Stock		.650"	Silver	900-0344
2006—'17 big twins, 2008—'16 touring		+.032"		.650"		900-4278
models	91cc	064		.650"	Wrinkle Black	900-0993
CO C 12 All		+.032"	•	.650"		106-3249
S&S 124" Hot Set Up Kits	0144	Stock		.650"	Wrinkle Black	900-0349
,	9100					900-3249
		+.032"		.650"	Stone Grav	900-0666

¹⁰⁶⁻³²³³



900-0666

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All other Specifications and finishes are available through Special Order

90-1060* Call for Pricing

TOP END GASKET KITS FOR 1999—'17 BIG TWINS (EXCEPT 2017 TOURING MODELS)

37/8" & 3.927" Bore	4" Bore	S&S 41/8" Bore (Graphite)	Stock 41%" Bore (Layered Steel)
910-0465	90-1913	90-1910	90-1914

^{**}in order to accommodate the change in engine height on S&S 124" engines and still use a stock length manifold, S&S added material to the surface for proper sealing of manifold to cylinder head.



79cc heads

When 79cc stock compatible heads are used with stock HD® pistons, TDC lifts of up to .186" for intake and .179" for exhaust and can be used without additional valve pocket clearancing. This allows the use of S&S® 510, 570, and 585 camshafts. If cams with higher TDC lifts are used, or if the heads are decked, piston valve pocket machining will be required.

79cc heads may be decked as much as .060" to increase compression. If heads are decked, piston valve pockets must be re-machined.

Moderate valve spring force in S&S Super Stock® cylinder heads allows the use of camshafts designed for the stock style chain cam drive system. However, for maximum reliability and performance we recommend the S&S gear drive cams.

Must use S&S rocker base gasket kit part #90-4120 with stock rocker covers.

79cc Heads should not be used with any piston having a pop up dome.

89cc heads

If 89cc heads are used with stock pistons, valve reliefs must be machined in the pistons due to larger valve size.

89cc heads may be decked as much as .060" to increase compression. If heads are decked, valve-to-piston clearance must be checked. If stock pistons are used, valve pockets must be re-machined.

Moderate valve spring force in S&S® Super Stock® cylinder heads allows the use of camshafts designed for the stock style chain cam drive system. However, for maximum reliability and performance we recommend the S&S gear drive cams.

A larger intake manifold is recommended to supplement the heads in order to let them flow to their full potential.

Must use S&S rocker base gasket kit part #90-4120 with stock rocker covers.

91cc heads

By changing the profile and shape of the cooling fins on our heads for 4½" bore engines, a large reduction in the transmission of mechanical noise was found. This not only benefits our TÜV certified engines and our EPA approved engines, but our performance engines as well!

Since April 1, 2007, these redesigned heads have been installed on all S&S 41/8" bore engines and Hot Set Up Kits.

Replacement heads of the old style are available by special order.

Must use S&S valve cover gasket kit part #90-4120 with stock rocker covers.

MANIFOLD RECOMMENDATIONS

S&S single bore throttle body and manifold are recommended for engines with Magneti Marelli® fuel injection.

Due to the change in manifold flange mounting bolt pattern, stock flanges and S&S seal part #16-0235 must be used. The Screamin' Eagle® 58mm throttle body/manifold may also be used on 2006-'09 engines.

We recommend the stock 50 mm throttle body or S&S Throttle Hog 58mm throttle body/manifold for 2008-up touring models with Electronic Throttle Control (ETC).

REPLACEMENT PARTS: SEE PAGE 128

IMPORTANT MANIFOLD INFORMATION

In 2006, Harley-Davidson® changed the bolt pattern of the flanges that connect the manifold to the cylinder heads for all big twin engines. The pattern was changed from an offset bolt pattern to a symmetrical bolt pattern, so flanges can fit either the front or rear cylinder head. In addition, the intake port was moved slightly toward the drive side of the engine, making the port-to-port distance of the intake manifold slightly shorter. S&S® heads for 2006—up big twins are machined with the symmetrical bolt pattern and relocated port to allow for the fitment of stock manifolds. In 2008, Harley-Davidson touring models were equipped with electronic throttle control (ETC). The throttle body and manifold used on these engines is a one-piece unit that contains a servomechanism to control the position of the throttle plate. S&S recommends the S&S Throttle Hog throttle body for this application, see page 104. This limits the cylinder length of engines using an ETC manifold/ throttle body to stock length because the ETC manifold/throttle body units are only available in stock length. However, S&S does supply specially machined cylinder heads for our 124" Hot Set Up Kit® for 2008 and later baggers, which allows the use of a stock length manifold on these longer-than-stock engines.

CNC PORTED CYLINDER HEAD SERVICES

FITMENT

- Available for 1999—2017 big twin engines, except 2017 touring models
- Ideal for 88"—124" engines (must use Screamin' Eagle® high flow injectors HD #27796-08 with stock throttle body, with kits over 107")
- Not compatible with Twin-Cooled[™] models

FEATURES AND BENEFITS

- CNC machined ports for a consistent performance increase from stock heads
- Great throttle response, high velocity port without losing low RPM torque
- Assembled with performance valves and springs ready to bolt-on
- Choice of .585" or .650" lift valve springs
- Combustion chambers are available in the following volumes:
 - 83cc—Generally used for stock 88" up to 106" engine displacements
 - 85cc— Same as stock Twin Cam 88® and 96™ engine displacements
 - 87cc— Recommended for up to 117" engine displacements
 - 90cc— Generally used for 124" and up engine displacements
- Available in factory black or silver

S&S CNC PORTING SERVICE OPTIONS REWORK SERVICE

- Send your stock heads to S&S
- Get the same set of heads back with CNC machined ports
- The best option for heads with a special cosmetic treatment
- Allow 1 week turn-around (does not include shipping)

CUSTOM CNC PORT DUPLICATION

 S&S can digitize your port design and machine it in your heads, ask an S&S customer service rep for details

CNC PORTING SERVICE

Fitment	Part#	MSRP
1999–2017 big twins (except Twin-Cooled™ & 2017 touring models)	106-5880	Call for Pricing

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S&S® CNC PORTIN	S&S® CNC PORTING SERVICE SPECIFICATION COMPARISON				
	VALVE SIZE				

Heads	VALVE SIZE		Max Valve Lift	MAX TDC LIFT		PORT FLOW		Chamber
	Intake	Exhaust	Max valve Lift	Intake	Exhaust	Intake	Exhaust	Volume
Stock	1.805"	1.575"	.585"	-	-	216.2 cfm	191.8 cfm	85cc
CNC Ported by S&S	1.900"	1.610"	.650"	.230"	.215"	248.6 cfm	209.7 cfm	83cc**

*Flow testing performed on a SuperFlow® 1020 flow bench at 28" of water test pressure at .600" lift. Heads tested are 2006-'12 style.

Heads	COMPRESSION RATIO								
neaus	88"	95"	96"	97"	103"	106" Stroker	106" Big Bore	117" DD Piston	124" DD Piston
Stock	9.0:1	9.2:1	9.2:1	9.7:1	10.1:1	10.1:1	10.0:1	10.0:1	10.7:1
CNC Ported by S&S	9.2:1	9.4:1	9.4:1	9.9:1	10.3:1	10.3:1	10.2:1	10.2:1	10.9:1

**As a general rule of thumb, for every 1cc decrease in chamber volume equals a .1 increase in compression ratio.



CNC porting is not available for previously ported heads, heads that have been structurally damaged, or heads that are determined to be unserviceable during initial inspection. These heads will be returned to the customer without modification. In these cases, the customer will be notified and options will be reviewed. New, CNC ported stock heads or S&S heads are available for purchase.

Due to variations in stock cylinder head castings, all inside surfaces of the ports may not "clean up" during machining. As a result, the inside of one or more ports may not appear to be completely machined. This does not effect performance and is not considered a defect.

Fuel injection tuning required.

CNC porting is not currently available for Harley-Davidson® CVO engines or Screamin' Eagle® cylinder heads.

 $Must use Screamin' Eagle ^{\circ} \ high flow injectors, HD~\#27796-08, with kits over~106" \ with stock throttle~body$

S&S recommends using a S&S Throttle Hog throttle body when installing S&S CNC ported heads to achieve full horsepower performance potential. See page 104.



HEAD BOLTS

Bolt Length w/Washer	Washer Thickness	Head Bolt w/Washer	Washer Only
1.690"	.250"	93-3028	50-7091
1.840"	.150"	93-3027	50-0418-S
1.920"	.250"	93-3036	50-7091
2.070"	.150"	93-3031	50-0418-S
2.220"	.250"	93-3038	50-7091
2.370"	.150"	93-3032	50-0418-S
3.134"	.250"	93-3029	50-7091
3.284"	.150"	93-3030	50-0418-S
3.501"	.250"	93-3037*	50-7091
3.651"	.150"	93-3033*	50-0418-S
_	.150"	_	50-0418-S



HEAD BOLTS FOR HARLEY-DAVIDSON® TWIN CAM 96™ ENGINES

Engine Displacement	Stroke	Cylinder	Cylinder	Short Bolt	Long Bolt	Head Bolt Kit
Engine Displacement	Stroke	Length	Head Type	w/Washer	w/Washer	ricad bott tite
Stock 96 and 103	43/8"	4.937"	Stock HD®	93-3031	93-3030	93-3014
117" Big Bore	43/8"	4.878"	S&S®	_	93-3030	93-3070
124" Big Bore Stroker	45/8"	5.013" or	Stock HD®	93-3038	93-3037	93-3016
124 Big Bore Stroker	4%	5.004"	S&S®	_	93-3037	93-3071

CALCULATING CUSTOM HEAD BOLT LENGTH

SEE INSTRUCTIONS IN THE APPENDIX: PAGE 349

All reference to HD® part numbers is for identification purposes only. We in no way are implying that any of S&S Cycle's products are original equipment parts or that they are equivalent to the corresponding HD® part number shown



S&S® CHROME HEAD BOLT COVERS

Dress up your engine with these magnetic chrome head bolt covers. Easy installation, no tools, no messy adhesives. A powerful magnet holds cover in place, yet allows easy removal. Chrome plated steel looks great on any engine, but is a must for polished engines. For S&S head bolts only.



CHROME HEAD BOLT COVERS±

Description	Part #
Set of 4, for S&S Head Bolts only	50-0333

± ★ WARNING: Cancer and Reproductive Harm

DIE-CAST ROCKER COVERS

FITMFNT

• 2007—'17 model big twins, except 2017 touring models

FEATURES AND BENEFITS

- Special rocker arm supports are included
- S&S rocker covers are finished with show-quality chrome
- Installation on stock and most comparable sized engines can be performed without removing the engine from the frame
- Clearanced to permit valve lifts up to .640" using S&S valve spring packages and stock rocker arms or S&S roller rocker arms
- S&S rocker covers accept valve springs up to 1.660" O.D. without modification
- Exclusive one way valve built into the rocker cover gasket to control oil carry over

KIT CONTENTS

- Front and rear covers
- All necessary gaskets and o-rings
- Mounting hardware

DIE-CAST ROCKER COVER KIT

Description	Part#
newron 2020 Gloss Black	900-0937
Chrome [±]	90-4110 USA:

^{*}WARNING: Cancer and Reproductive Harm



If using valve spring packages with taller than stock installed height, some minor clearancing may be required.

Cylinder heads must be set up correctly for high lift cams, and it remains the builder's responsibility to confirm all clearances.

In most instances, only minor clearancing is required to use S&S rocker covers with valve springs larger than 1.660" O.D.

S&S° rocker covers are required if S&S cylinder heads are used with S&S electric compression releases.

ANY JOB IS EASY WITH THE RIGHT TOOLS
S&S ROCKER COVER WRENCH SET, PAGE 329



^{*} Drilled & tapped deeper to allow shortening for custom lengths.

THROTTLE HOG CABLE-OPERATED THROTTLE BODIES

S&S cable operated Throttle Hog Throttle bodies are available for 2002—'17 Harley-Davidson® big twins using cable operated throttles. Choose from 58mm for stock or mildly built engines, or the whopping 66mm Throttle Hog for big inch engines. More Air. More Power!

FITMENT

- 2006—'17 Harley-Davidson EFI big twins with cable controlled throttles
- S&S EFI Hot Set Up Kit® installations and T-Series Long Block engines with cable controlled throttles

FEATURES & BENEFITS

- More air flow for improved performance
- S&S Stealth air cleaners kit, with the proper bore sizes, are available
- Works with all air cleaner kits designed for throttle by wire engines with stock breather system
- One-piece design for easy installation and stock appearance
- Compatible with stock sensors, fuel rail, and throttle cables
- Black powder coat finish matches stock
- Sealed, stainless steel throttle shaft with dual roller bearings for smooth operation and no air leaks
- Kit includes hardened steel flanges and seals
- No stock throttle body exchange required!

THROTTLE HOG CABLE OPERATED THROTTLE BODIES FOR 2006-2017 BT

Year	Size (mm)	Engine Fitment	Manifold Size	Part#
2006–2017 bt		96", 103", 106", 107", 110", S&S 117" Hot Set Up Kit®, and 124" Hot Set Up Kit® (w/S&S +.032"heads only)** S&S T-Series Engines** (Engines produced after 2013)	405	170-0346
	58	S&S T-Series 111" Long Block Engines**	398	170-0347
		S&S T-Series 124" Engines with S&S bolt pattern, and 124" Hot Set Up Kit® (w/stock or standard S&S heads)** (Engines produced before 2013)	417	170-0345
	66	96", 103", 106", 107", 110", S&S 117" Hot Set Up Kit®, and 124" Hot Set Up Kit® (w/S&S +.032"heads only)** S&S T-Series Engines** (Engines produced after 2013)	405	170-0349
		S&S T-Series 111" Long Block Engines**	398	170-0350
		S&S T-Series 124" Engines with S&S bolt pattern, and 124" Hot Set Up Kit® (w/stock or standard S&S heads)** S&S T-Series Engines** (Engines produced before 2013)	417	170-0348

^{**}Some S&S heads have additional material on the manifold surface to allow the use of a stock length manifold (405) on a 124" engine.

If you are not sure which manifold should be rdered, check fitment with the stock manifold first.

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MAKE MORE POWER!

S&S Air Cleaner Kits See page 60 REPLACEMENT FLANGE KITS 2006–2017 bt 160-0168

6.2 g/s FUEL INJECTORS for 2006–2017 Cable-operated Throttle Hogs 550-0749



THROTTLE HOG THROTTLE BODIES

FITMENT

 2008—2016 big twins w/throttle-by-wire (Except models equipped with the Twin-Cooled™ system)

FEATURES AND BENEFITS

- Increase in airflow for additional performance gains
- Meets the breathing needs of even the largest of engines

 choose from 58mm, 66mm, or 70mm
- Increased manifold port I.D. 1.780"
- Economically priced compared to competitors
- Utilizes stock sensors and fuel rail
- Kit includes hardened steel flanges and seals
- All throttle-by-wire 58 & 66mm throttle bodies are machined to stock length intake manifolds (S&S manifold size 405) only

58мм Recommended for engines up to 110". Perfect with a S&S® 106" Big Bore kit

66MM Perfect pairing with a S&S 124" Hot Set Up Kit® or a 124" engine (when running cylinder heads with stock style round intake ports)

70MM Recommended for engines up to 145" displacement. S&S B2 and B3 cylinders heads are required to match the oval port configuration

ADDITIONAL PARTS REQUIRED

- Air cleaner (see chart for recommended air cleaner kits)
- High flow injectors P/N 550-0747
- A performance motorcycle tuning module.



SOLD ON EXCHANGE ONLY—HERE'S HOW IT WORKS

- 1. Your S&S® dealer sends your stock throttle body to S&S Cycle, Inc
- S&S tests your incoming throttle body and its electrical components
 —a non-functional unit cannot be used and will be returned
- 3. S&S transfers your functional electrical components to your new S&S Throttle Hog
- 4. The complete Throttle Hog is tested and shipped to your S&S dealer (along with your original throttle body)
- 5. Your new Throttle Hog will typically be shipped within 2–3 days of receipt at S&S.

THROTTLE HOG THROTTLE BODIES AND AIR CLEANER KITS

Size	Throttle Hog Throttle Body [±]	Stealth Air Cleaner Kits***	Backplate only*
58mm	160-0034	170-0164	170-0167
66mm	160-0010	170-0165	170-0168
70mm B2	160-0112	170-0263	170-0247**

^{*}If you already have a Stealth air cleaner for a stock throttle body, all you need is the backplate.

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6.2 g/s FUEL INJECTORS for 2008–2017 Throttle-by-Wire Throttle Hogs 550-0747

B3 APPLICATIONS FOUND ON PAGE 75



WARRANTY: S&S THROTTLE HOG THROTTLE BODIES

S&S° Cycle, Incorporated warrants the S&S components of your S&S Throttle Hog throttle body to be free from defects in material and workmanship for a period of one year from the date of purchase by the original consumer customer. If parts become defective during the warranty coverage period, S&S will, at its option, repair or replace any, or all, defective parts. Repair or replacement of defective parts is the sole and exclusive remedy.

In the event that any OEM component re-utilized in the assembly of the throttle body fails, S&S may service the unit provided the OEM components are supplied to S&S at the time of service.

^{**70}mm B2 backplates do not have mounts to the cylinder head. A bracket must be fabricated to support the throttle body separately. Engine height determines if stock bracket can be used.

^{***} These kits do not include an air cleaner cover. See page 60 for S&S Stealth covers.

^{**}WARNING: Cancer and Reproductive Harm

MANIFOLDS FOR SINGLE BORE EFI BIG TWIN ENGINES

FITMENT

- Stock height or taller than stock 2006—'15 bt, except 2008—2015 touring models
- S&S 52mm or 58mm throttle bodies
- Stock or S&S heads
- S&ST-Series Long Block engines

KIT CONTENTS

- Manifold
- O-ring intake seals
- VOES fitting cap



MANIFOLDS FOR SINGLE BORE EFI 2007-'15 BIG TWIN ENGINES

Engine Displacement	Cylinder Length	Manifold Size	Part #
96", 103" & 106" (S&S engines with stock bolt pattern)	4.937" 405		16-5134
124" Hot Set Up Kit® (w/stock or standard S&S heads) **	5.004"	417	16-5139
124" Hot Set Up Kit® (w/S&S +.032" heads only)**	5.004"	405	16-5134
111" S&S T-Series Long Block Engines	4.754"	398	16-5136
117" Hot Set Up Kit®	4.878"	405	16-5134
124" S&S T-Series Engines, S&S bolt pattern	5.013"	417	16-5139

^{**}Some S&S heads have additional material on the manifold surface to allow the use of a stock length manifold (405) on a 124" engine. If you are not sure which manifold should be ordered, check fitment with the stock manifold first.



S&S style o-rings must be used with these manifolds. S&S o-rings are slightly thinner to accommodate the larger S&S port diameter. Use of stock o-rings may cause damage.

2006—up models require seperate purchase of HD® intake manifold flanges pn 26993-06 (1 pack).

SINGLE BORE EFI THROTTLE BODIES

52MM: Offering a 30% larger cross sectional area than stock throttle bodies, the S&S 52mm bore throttle body flows more than enough air for all but the most demanding street engines.

58MM: In response to constant requests for something bigger, S&S also offers a huge 58mm bore throttle body! Strictly for large displacement competition engines, this throttle body allows your engine to breathe easily and make more power! Recommended for S&S 106" big bore kit.

FITMENT

 2006—'17 EFI big twins (except 2008—up touring & 2016—'17 Softail® models with electronic throttle control)

FEATURES AND BENEFITS

- Excellent performance
- Recommended tuning products:
 - S&S VFI
- Cruise control compatible with no extra bracket

MAKE MORE POWER!

S&S° Stealth Air Cleaners on page 60 S&S Air Cleaner Kits for on page 65

NEW & IMPROVED!

CABLE-OPERATED THROTTLE HOGS

PAGE 103

OPTIONS

- 52mm
- 58mm

KIT CONTENTS

- Throttle body assembly
- Fuel injectors
- Fuel rail
- Harness adaptors
- All necessary hardware, gaskets, and hoses

SINGLE BORE EFI THROTTLE BODY KIT

Description	Part #
52mm Kit including Fuel Rail Kit	17-5070
58mm Kit including Fuel Rail Kit	106-4408

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OTES

If you plan to use another programmable fuel injection module, it is best to consult the manufacturer to be certain that it is compatible with the S&S single bore system and has enough tuning capability for your engine configuration.

Requires S&S manifold and air cleaner assembly (order separately)







Stock

S&S 52mm

S&S 58mm

S&S Late Models 1999-up

COMPRESSION RELEASES

FITMENT

- S&S cylinder heads and rocker boxes for big twin with compression release machining
- Will not fit OEM heads

ELECTRIC RELEASE:

Solenoid operated, this system automatically opens and closes when the starter button is pressed and released. Convenient and simple, this is the best setup for big displacement high compression bikes. Requires S&S die cast rocker covers, page 102



55-1009



COMPRESSION RELEASE KITS

Description	Part #
Electric	90-4915





TOOLS AND ACCESSORIES

Description	Part #	
S&S Two-Piece Socket Kit: Allows in-frame installation of S&S compression releases and protects wiring from damage dur installation.	53-0045	
	each	90-4916
S&S Compression Release Hole Plug	2 pack	90-4916-2



S&S rocker covers must be used with electric compression releases due to clearance requirements for the solenoids.

Rocker covers must be removed when installing S&S® compression releases. If lack of frame clearance prevents removal of rocker covers, engine must be removed from frame for compression release installation.

In most cases, S&S compression releases can be installed while the engine is in the frame with the special S&S two-piece socket kit, part #53-0045 .

If cylinder heads are machined for S&S compression releases, but compression releases are not used, special plug part #90-4916 (two required) must be installed to seal the machined hole.

Stock cylinder heads cannot be machined for S&S compression releases because there is not enough material in critical areas.

REPLACEMENT PARTS

Description	Part #
Silicone Solenoid Caps	55-1009
Wiring Harness USA _{2,3}	55-1010
Electric Compression Release Assembly	90-4914

VARIABLE FUEL INJECTION MODULES (VFI)

DELPHI® STYLE S&S® VFI MODULE FITMENT

- 2001-'10 Harley-Davidson® EFI Softail® models
- 2002-'07 EFI touring models
- 2004—'11 EFI Dyna® models

IMPROVED FEATURES:

- New state of the art components replace outdated materials
- Improved waterproof housing
- More durable USB-C connector
- Faster processor for increased communication speed
- Protune II 4.0
- EC-approved

FEATURES AND BENEFITS

- Replaces stock Harley-Davidson® fuel injection modules pluas directly into stock wiring harness
- Three stage engine overheat protection helps prevent possible engine damage
- Altitude compensation automatically adjusts for altitude variations
- Live tuning allows manual changes to maps while the engine is running
- Self diagnostics and actuator test functions help tuning and verify proper installation/operation
- Engine light can be programmed to function as a shift light
- Closed loop capable
- Optional closed loop sensor kit and knock sensor kit extend module capabilities
- Speedometer calibration function for 2004—up Harley-Davidson® models (does not require installation of separate speedometer calibrator)

CLOSED LOOP CAPABILITY

When equipped with a dual closed loop sensor kit and running in closed loop mode, VFI tuning becomes a breeze! S&S supplies base maps for several displacement groups, creating a starting point to get bikes up and running. Utilizing dual oxygen sensors (sold separately) placed in the exhaust, the S&S closed loop system modifies the base fuel map to meet the specific requirements of your engine!

- Automatic tuning on the street or on the dyno
- Each cylinder is tuned individually
- Fuel map changes are saved in the module & can be merged with the pre-loaded base map
- Works with stock oxygen sensors used on late model Harley-Davidson® motorcycles

Closed loop VFI can also automatically compensate fuel delivery for modifications creating up to a 20 hp gain, such as changes in:

- Displacement
- Cams
- Exhaust
- Head porting or installation of aftermarket heads

KIT CONTENTS

- Delphi® style S&S VFI module
- USB port cover kit
- Installation instructions



DELPHI® STYLE S&S VFI MODULE

Fitment/Description	Part#
VFI Module for 2001–'11 bt (except 2008—up touring and 2011 Softail®)**	55-5090*
S&S Delphi Style VFI Closed Loop Sensor Kit	106-2066

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55-5090

106-2066

REPLACEMENT PARTS FOR VFI MODULES

Description	Part#
Service Kit, 02 Sensor USA	106-2061
Service Kit, DTM Pin	55-1521
Service Kit, Oxygen Sensor Boss	55-6071-S
Service Kit, Subharness (Delphi Style)	55-1595
Hardware Kit (USB Cover)	55-5091



All current production S&S modules are closed loop compatible, and all older S&S modules can be updated with current calibration

Please note that maps created for older versions of the VFI software are not compatible with the new closed loop software, however they can be converted to closed loop if desired.

S&S VFI systems installed on 2004—up Harley-Davidson® models incorporate a speedometer calibration feature.

Due to the extreme range of control offered by the S&S VFI modules, we recommend that they be installed and tuned by S&S Certified VFI Tuning Centers.

VARIABLE PRESSURE CLUTCH

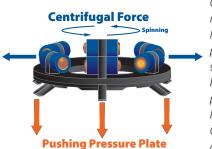
The VP clutch is the most cost effective kit for upgrading your HD® stock clutch Up to 40% more pressure for stronger clutch engagement.

FEATURES AND BENEFITS

- Works like a lock up clutch
- Increased torque capacity: strength of engagement increases with RPM
- 10 minute installation
- Fits behind most stock derby covers and primary covers—No modification required
- Can be used with cable and hydraulic clutch controls

Does not fit: 2013 and later CVO™ and Tri-Glide™, 2015 and later Ultra Limited Low and Electra Glide Classic Low Models with new HD® Assist and Slipper Clutch: 3 Stud Clutch Hub

Non-stock derby cover (including any special or 2003 anniversary cover) and 3 hole derby covers may require a derby



Centrifugal force makes more clamping force.
Regular clutches have static pressure only with clutch springs. The Lock up clutch has two different types of pressure. One is a Static Pressure, and another is a Centrifugal Force by Lock-up as an additional pressure.

VARIABLE PRESSURE CLUTCH

Description	Part #
1998–2017 big twins except M8	560-0242

INNER PRIMARY BEARING RACE

FEATURES AND BENEFITS

- · Will not "walk" on transmission mainshaft
- Prevents costly damage to mainshaft seal, output gear & output gear bearing
- Simple to install

The tendency of the stock inner primary bearing race on late model big twins to shift on the transmission mainshaft under high torque loads, also known as "walking" of the race, can cause destruction of the transmission mainshaft seal, and ultimately the mainshaft seal, output gear and output gear bearing. The S&S inner primary bearing race features an extra step on the inside diameter that acts as a stop on the transmission mainshaft. When the race is pressed on to the shaft, the step will not allow the race to move inward toward the mainshaft seal. The improved S&S bearing race is a must for any high performance application.



INNER PRIMARY BEARING RACE

Description	Part#
2006 Dyna® models, 2008, 2010–2017 big twins, except 2017 touring	560-0241

HEAVY DUTY DIAPHRAGM SPRING

FITMENT

• 1998–2017 big twin models, except 2017 touring models

FEATURES AND BENEFITS

- 380 lbs pressure, 25% stronger than stock
- Same pressure as Screamin' Eagle® heavy-duty spring
- Compatible with S&S VP and stock clutches

HEAVY DUTY DIAPHRAGM SPRING

Description	Part#
1998- up big twins	560-0244



Q//

GATES® HIGH STRENGTH FINAL DRIVE BELTS

S&S final drive belts by Gates are available with 14mm pitch in 1½" and 1½" widths. See the chart and match the width and number of teeth required for your vehicle. You can find this information in the vehicle service manual.



ATTENTION CUSTOM BIKE MANUFACTURERS! SPECIAL ORDER BELTS FROM S&S® AND GATES®

Special belt sizes, private brand labeling, and assistance with belt drive design, are available to custom performance OEM's and aftermarket bike builders, through S&S. These products and services are available for licensed motorcycle manufacturers only, and a minimum order quantity may be required.

Drive belts with your company name imprinted on them are a perfect way to show off your brand. Any belt size currently available in the S&S catalog, as well as the special ordered sizes, can be specially branded. Minimum order quantities would apply.

Whether you're designing a completely new chassis, or simply need a replacement belt, S&S can help you find the belt you're looking for. Through the combined efforts of Gates and S&S, S&S can now provide customers with the technical assistance they need for designing new secondary belt drive systems. In addition, S&S can help you determine required tooth count for your existing chassis design, based on the pulley center-to-center distances and pulley tooth counts.

All belts have a 14mm tooth pitch, and are made of the super strong Gates Carbon X3N material. Belts are available in three standard widths of 1.125", 1.5" and 1.181" (30mm), but can be special ordered in nearly any width for a nominal charge. If you want a belt with a special tooth count, they are also available (see the special order chart for availability).

Contact your S&S Customer Support Representative for more information.

SECONDARY DRIVE BELTS (14MM PITCH)

Teeth	11/8" Wide	1½" Wide
125	106-0357	_
126	_	106-0348
127	_	106-0349
128	106-0358	106-0350
130	106-0359	106-0351
132	106-0360	106-0352
133	106-0361	106-0353
135	106-0362	106-0354
136	_	106-0355
139	106-0363	106-0356
149	106-1338	106-2695
156	_	106-2827

BELTS AVAILABLE BY SPECIAL ORDER (14MM PITCH)				
Tooth Count	1.181" (30мм) Width*	1.25" Width*		
125	•			
126	•	•		
127	•	•		
128	•			
130	•			
131	•	•		
132	•			
133	•			
135	•			
136	•	•		
137	•	•		
139	•			
140	•	•		
149	•			
150	•	•		
151	•	•		
152	•	•		
156	•			
*Minimum order required: 1.181" (30mm) – 16 belts; 1.25" – 17 belts.				

GASKETS

REBUILD GASKET KITS FOR S&S T-SERIES 1999-UP ENGINES AND HOT SET UP KIT®

1999—up 41/8", S&S base bolt pattern	106-0976	
1999—up, 41/8", Stock base bolt pattern	310-0335	
1999-up T143 4.425" bore	310-0751	

TOP END GASKET KIT FOR TWIN CAM 96°/103° AND S&S ENGINES

Bore	Part #
43/8"	90-9511
41/8" Stock Cases	90-9510
4" Stock Bolt Pattern	90-9505
3%", 3.927", & 3.937" Stock Bolt Pattern	90-9504

Kits include all gaskets and seals required to rebuild the top end of an S&S engine with S&S cylinders and cylinder heads. Rocker cover gaskets are not included in kits. See "S&S Rocker Cover Gasket Kit" chart to order separately.

CYLINDER HEAD GASKET KITS FOR T-SERIES 1999-UP

Bore	Part #
41/8" Stock Bolt Pattern	90-1914
4 %" bore	900-0800
4" Stock Bolt Pattern	90-1913
3%", 3.927", & 3.937" Stock Bolt Pattern	910-0465*

Kits contain head gaskets, base gaskets or o-rings, and exhaust pipe gaskets for two cylinder heads. Rocker cover gaskets are not included in kits. See "S&S Rocker Cover Gasket Kit" chart to order separately.

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HEAD GASKETS FOR S&S® ENGINES

Description	Bore Size	Thickness	QTY	Part #
Copper	43/8"	.045"	2 pack	93-1081
Layered Steel	4⅓" Stock Bolt Pattern with Twin Cooled™ Heads	.045"	each	900-0608
			each	93-1091-S
Layered Steel	41/8" Stock Bolt Pattern	.043"	2 pack	930-0102
			10 pack	93-1920
Layered Steel	41/8" Stock Bolt Pattern	.030"	2 pack	900-0217
Layered Steel	4⅓" Stock Bolt Pattern with Twin Cooled™ Heads	.030"	2 pack	900-0609
	All Charle Dalle Date and	0.4211	each	93-1043-S
Graphite	4" Stock Bolt Pattern	.043"	10 pack	93-1058
Layered Steel	4" Stock Bolt Pattern	.045"	2 pack	900-0822
Layered Steel	4" Stock Bolt Pattern	.030"	2 pack	900-0821
Layered Steel	3%", 3.927", & 3.937" Stock Bolt Pattern with Twin Cooled Heads	.030"	2 pack	900-0605
Graphite	3¾" Stock Bolt Pattern	.043"	each	93-1045-S 16775-998
Layered Steel	3%", 3.927", & 3.937" including Twin-Cooled Heads	.045"	2 pack	900-0862
Layered Steel	4 7/16"	.045"	2 pack	900-0762



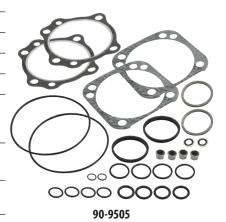
Micropore





Copper





CONTINUED-GASKETS

BASE GASKETS AND O-RINGS S&S® T-SERIES 1999-UP

Description	Bore Size	Thickness	QTY	Part #
	4"	.018"	each	93-1050-S
c 11:			each	93-1048-5
Graphite	41/8" S&S Bolt Pattern	.018"	2 pack	930-0101
			10 pack	93-1074
	43/8"	.018"	2 pack	93-1082
Micropore	4%" Stock Bolt Pattern	.018"	each	93-1092-5
			2 pack	930-0101
			10 pack	93-1921
	4.425"	.018"	2 pack	900-0783
Viton O-ring	4"	.103"	each	50-8049
	3¾", 37%", 3.927", 3.937"	102"	1	50-8048
		.103"	each	11256



106-5029



106-5688

EXHAUST GASKETS

1984—'12 big twins	each	106-5029 <i>65324-83B, 65324-83A</i>
1964– 12 big (Wills	10 pack	93-1072

ROCKER COVER GASKET KITS

Rocker Cover Style	Head Type	Part #
S&S Die-cast	S&S Heads	90-4111
Stock 1999–2017, except 2017 touring models	Stock or S&S Heads	90-4097*
Stock 1999–2017, except 2017 touring models	Stock heads	900-0534

All kits include gaskets for two rocker covers.

DIE CAST ROCKER BOXES

	each	90-4071-S
Gasket, bottom rocker cover, 41/8", 1984—up	2 pack	90-4071
	10 pack	90-4099

VALVE GUIDE SEALS

Valve Stem Oil Seal, Hat Style	each	900-0590 18094-02
Valve Guide Seal	each	106-5688
Valve, Umbrella	each	900-0495 26858-99
Filter, Breather	each	900-0496 63815-99

^{*}Kit contains bottom rocker gaskets for stock, S&S 79cc, & S&S 89cc heads

CONTINUED-GASKETS

STOCK ROCKER BOXES

O-ring, (-114), .625" ID x .812" OD, Black, Viton®		50-8033 11270	
Gasket, bottom rocker cover, 41/8", 1984-up		each	90-4071-S 16719-99B
		2 pack	90-4071
		10 pack	90-4099
Gasket, Breather Cover, Stock	1999–'10	each	90-4077 17591-99, 17162-03, 17592-99
Pattern	2011–'17	each	900-0415
Gasket, Breather Baffle, Stock	1999–'10	each	90-4078 17162-03, 17592-99
Pattern	2011–'17	each	900-0416
Gasket,Rocker Cover,Steel, 1999–ı	ıp bt	each	90-4096-S 17386-99A
Gasket, Bottom, Rocker Cover, S&S® Heads w/Stock Rocker Box, 1999—up bt		each	90-4124
		2 pack	90-4120

90-4096-5



90-4124

LOWER END GASKETS AND SEALS

Gear Cover gasket	each	31-2032-S 25244-99A
Townsh Course market	each 33-5303-5 18635-998	33-5303-S 18635-99B
Tappet Cover gasket	2 pack	33-5303-2 18635-99B

90-4071-S

PUSHROD O-RINGS

O-ring,Kit,Pushrod Cover,1984—'99 bt		93-4022
Top 0-ring	each	50-8039 11293, 11157, 11101, 11190
Middle 0-ring	each	50-8038 11132A
Bottom 0-ring	each	50-8037 11145A

MISCELLANEOUS GASKETS

	31-4035 12068
	31-2097
each	50-8039 11293, 11157, 11101, 11190
each	50-8034-5 26432-76A
2 pack	50-8034 <i>26432-76A</i>
each	50-8270
5 pack	50-8275
each	50-8066-S 11301
	each 2 pack each 5 pack

MANIFOLD SEALS

CO C Manifald O Din	each	16-0235
S&S Manifold O-Ring	10 pack	16-0243
	each	16-0236 <i>26995-86B, 26995-86A, 26992-99</i>
Stock Manifold O-ring	10 pack	16-0244 <i>26995-86A, 26992-99, 26995-86B</i>
Cap, rubber, manifold, fitting	each	50-8372

CLASSIC TEARDROP AIR CLEANER

Backplate gasket		each	106-1724
		10 pack	106-2328
	1/11	each	50-7055
Vent seal washers	10 pack	50-7057	
silicone coated steel	coated steel 3/8"	each	50-7054
		10 pack	50-7059

STEALTH AIR CLEANER

Dack	plate		1004
Dack	DIALE	י טאטי	KEI

Stock CV Carb & EFI Throttle Body,1991-up (except Throttle by Wire)	xl/bt	106-6022 29062-95B
Super E/G	each	106-1724
	10 pack	106-2328
For Muscle air cleaner (includes lanyards)		170-0137
Vent seal washers Nitrile Rubber	each	50-7054
Coated, .380" x .880" x .024"	10 pack	50-7059

SINGLE BORE TUNED INDUCTION

Backplate gasket

раскріате дазкет		
Cocket Dockmoto F/C/CDFFI	each	106-1724
Gasket, Backplate - E/G/SBEFI	10 pack	106-2328
Gasket, S&S SBEFI 58mm		106-4662
Gasket, Stock carb/Throttle Body		106-6022 29062-95B
Adaptor plate gasket		17-1022
Adaptor plate bracket o-ring	each	50-0446

SINGLE BORE EFI THROTTLE BODY

Backplate gasket		
F2	each	106-1724
52mm	10 pack	106-2328
58mm	each	106-4662
O-ring, throttle body to manifold		50-7967-S
Air Temp Sensor gasket		16-5009-S
AC o-ring		50-8149-S
uel injector o-ring top		50-8264-S
Fuel injector o-ring bottom		50-8265-S
Fuel rail inlet o-ring	each	50-8137-S 27237-95

THROTTLE HOG CABLE-OPERATED THROTTLE BODIES REPLACEMENT PARTS

1.	Throttle Body, Assembly, Cable Operated	N/A			
2.	Clamp, Kit, Hold-Down, MAP Sensor				
3.	Flange, Set, Packaged, 2006–Up bt				
4.	Guide, Assembly, Throttle Cable				
5.	Screw,PH Panhead,10–24 x 5/16",Zinc,Steel				
6.	Gasket, Throttle Body,				
	58mm	160-0050			
	66mm				
7.	Screw,Torx,M4 x 12mm,Zinc,Steel	50-0358-S			
8.	Throttle Return Spring				
9.	Throttle Cable Spool				5
10.	Throttle Shaft Nut	11-2350	2		1
				7	
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6.2 g/s FUEL INJECTORS for 2006–2017 Cable-operated Throttle Hogs 550-0749 *\$182.95*

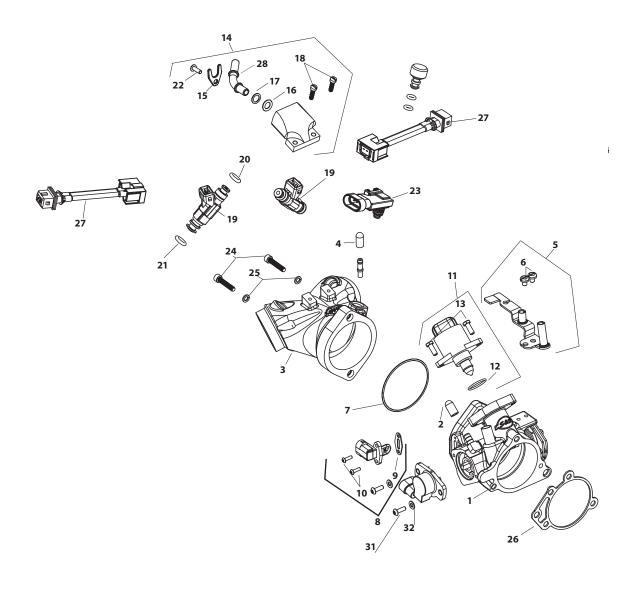


SINGLE BORE EFI THROTTLE BODY AND RELATED REPLACEMENT PARTS

1.	Throttle body	
	52mm, 2006-'16 bt (N/S)	
	58mm, 2006-'16 bt (N/S)	106-3957
2.	Cap, canister purge (each)	. 50-8266-S
3.	Manifold (See page 105)	
4.	Cap, rubber, manifold, fitting	
5.	Throttle cable guide packet with hardware	55-5084
6.	Screw, cable guide & air cleaner backplate (each)	50-0041
	10 pack	50-0062
7.	O-ring, throttle body to manifold 27270-95	. 50-7967-S
8.	Intake air temperature sensor with hardware 27270-95	
		55-5041±
9.	Gasket, IAT	
10.	Screw, M3, IAT	
	Idle air control motor SS EFI with hardware	
	U-IIIIQ, IAC	N/A
	O-ring, IAC Screw, Idle air control motor	N/A
	Screw, Idle air control motor	
13.	3	
13.	Screw, Idle air control motor 2006-'16 (each)	. 50-0358-S
13. 14.	Screw, Idle air control motor 2006-'16 (each)	50-0358-S
13. 14. 15.	Screw, Idle air control motor 2006-'16 (each) Fuel rail kit 2006-'16 (Fuel inlet tube not included.) Tube clip, fuel rail inlet 2001-'16 (each)	16-5202 50-0391-S
13. 14. 15. 16.	Screw, Idle air control motor 2006-'16 (each)	

18. Screw, rail, 1995-'16 (<i>each</i>)	50-0039
10 Pack	
19. Fuel injector (<i>each</i>)	
2 Pack	
20. O-ring, injector top, black	
21. O-ring, injector bottom, orange	
22. Screw, fuel rail (<i>each</i>)	
23. MAP sensor <i>32424-98</i> , <i>32416-10</i> , <i>32417-10</i>	
24. Screw, throttle body to manifold (each)	
25. Washer, lock , #10, throttle body to manifold	
26. Gasket, backplate	
52mm (each)	106-1724
10 pack	
58mm (each)	
27. Harness, injector adapter kit	
1995-'05	55-5074
2006-'16 (N/S)	
28. Fuel inlet tube 45°, 2002-'16 <i>27221-95</i>	
29. Spacer, throttle position — 2002–'16 (N/S)	
31. Screw, Torx, M4 x 12mm, Zinc, Steel	
32. Washer, Flat, 4mm x 9mm x .9mm, Stainless Steel	

(N/S) = Not Shown N/A = Not Available

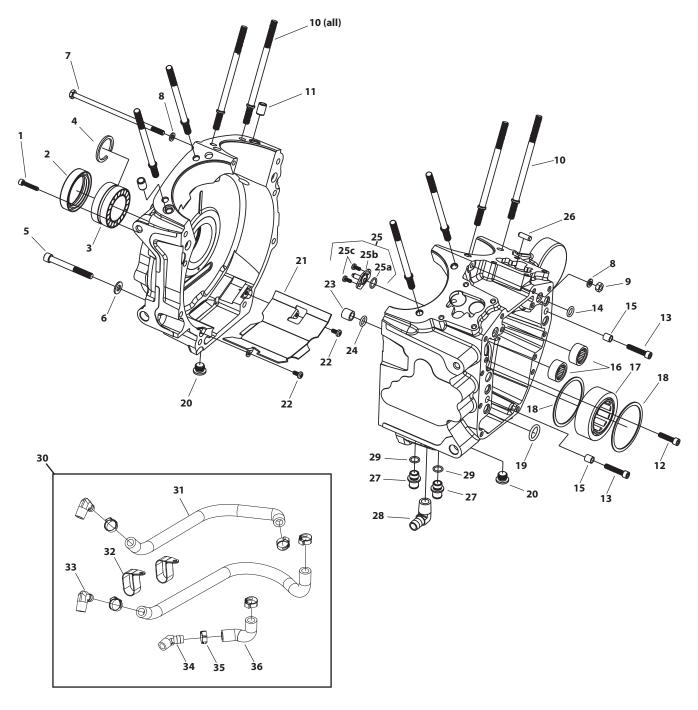


SUPER STOCK T2 CRANKCASE REPLACEMENT PARTS

1.	Bolt, stator 10-24 x1" SHC - 4 required <i>2720</i>	50-0044
2.	Seal, sprocket shaft 12068	31-4035
3.	Bearing, Timken® sprocket shaft 9028	
	(USA)	2,3 31-4013
4.	Timken Main Bearing Spacers	
	Fits 11/4" stock diameter shaft.	
	.0995"1005" 9124	
	.1015"1025" 9125	
	.1035"1045" 9126	
	.1055"1065" 9127	
	.1075"1085" 9128	
	.1195"1205" 9134	● 31-4076
5.	Bolt, case 5/16" -18 x 31/2" HHC - 8 required	
	Chrome (each)	
	Zinc 3427 (each)	
6.	Washer, flat 5/16" x 11/16" x 1/16" – 8 required 6320, 70907-	
	each	
7.	Bolt center case Screw,HHC,Gr8,1/4-28 x 5-1/2",Zinc,Stee	
_	each	. 50-0090
8.	Washer, flat, 1/4" x .474" x .050"	E0 7020
•	each	
9.	Nut 1/4"-28 Grade 8 - 1 required 7683	50-5011
10.	(each)	31-2325-5
	8 pack	•31-2323-3 •31-2340
	Cylinder stud, Stock Bolt Pattern, 6.312" – 8 required	-51.25.0
	(each)	310-0437
11.	Pin, Dowel, .4377" x .500", Steel, 4 Pack	500-0219
12.	Bolt, cam plate 1/4" -20 x 1" SHC - 4 required 852	
	each	
13.	Bolt, cam plate 1/4" -20 x 11/4" SHC - 2 required 4740A, 348	32A
	each	.50-0008
14.	O-ring, cam plate – 9 required 11301 (each)	50-8066-S
15.		50-8148-S
16	Bearing,Inner,Needle,Cam,1.0" x 1.25" x .50" 9215	
	each	31-4199-S
17.	Bearing, pinion shaft — Fits all S&S and OEM 2000-'02	
	(Balanced models only) & all OEM 2003-up	
	24604-00D	31-4085

18.	Retaining Ring,Internal,25/8",Black,Carbon Steel 2 requir	ed
	each	310-0730
19.	O-ring, oil pump 11/16" I.D. x 15/16" O.D. x 1/8" CS 11293, 1	1157, 11101, 11190
	each	
20.	Plug, magnetic drain	. 50-8335
21.	Baffle plate	31-0119-S
22.	Screw 10-24 x 3/8" pan head - 2 required	
	each	. 50-0050
23.	Dowel, case alignment - 2 required 16574-99A, 16573-83, 1657	3-83A
	each	50-8023
	10 pack	50-8109
24.	O-ring, case alignment, - 2 required 26432-76A	
	9/16" I.D. x 11/16" O.D. x 1/6" CS (each)	
	2 pack	50-8034
25.	Jet, Assembly, Piston Cooling, Low Profile, for T143	
	Piston Oiler Jet Kit	310-0647
	Piston Oiler Jet Kit includes:	
	a. 0-ring, (-014), .500" ID x .625" 0D <i>11140, 11273</i>	
	each	
	10 pack	50-8130
	b. Jet, Assembly, Piston Cooling	240 0444
	each	.310-0646
	c. Screw, Torx Panhead, 8–32 x 3/8", Zinc, Steel <i>68042-99</i>	
	each	
	Pin Dowel, 2 pack	
	Fitting, crankcase vent, 2 pack	
28.		
	O-ring, -13, .437 ID, X .565 OD, Viton11105, 11273	
30.	Installation Kit, Oil Line, 2007-'16 FL	310-0435±
	Installation Kit Includes:	
	Hose,Oil Line,.500"x.750"x24"	
	Clamp, Hose, Pinch Style, .812"OD Hose.	
	Fitting Pipe, 90°, Bared Male Pipe 3/8	
	Fitting,Pipe,45°,Male,3/8 NPT x .500",Brass	
	Clamp,Hose,Pinch Style,45/64" - 53/64"	
36.	Hose,Oil Line,Feed.Formed,.500"ID, 2007-up Touring	. 310-0350

(N/S) = Not shown

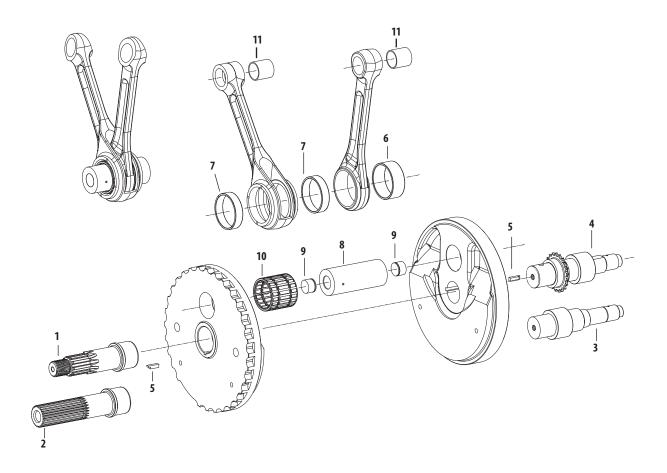


:85 Late Models 1999-up

5-PIECE FLYWHEEL REPLACEMENT PARTS

	Sprocket Shaft, 1999-2006 bt (includes key #5) 33-2009 Sprocket Shaft, 2006 Dyna®, 2007-2012 bt 33-2011	
	Pinion Shaft, 1999–2012 bt (includes key #5)	
	Pinion Shaft, 2000–2012 w/balancer (includes key #5)	
5.	Key (each)	\$4.95
6.	Front Rod Race, 1999-2012 34-4008	\$28.95
7.	Rear Rod Race	\$26.95
8.	Crankpin	
	Standard	\$138.95
	+.001 340-0017	\$138.95
	+.002340-0018	\$138.95

9.	Crankpin Plug (each)	\$5.95
	2 pack	\$9.95
10.	Bearing Assembly	\$161.95
11.	Wristpin Bushing,	
	1999–2012 bt, straight bushing 34-4012	\$8.95

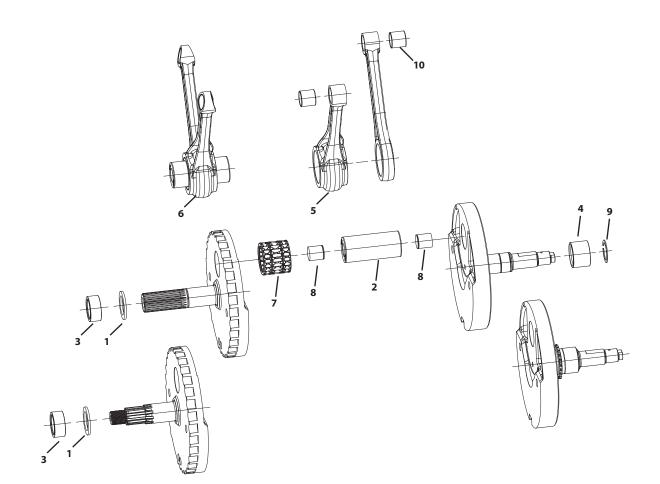




3-PIECE FLYWHEEL REPLACEMENT PARTS

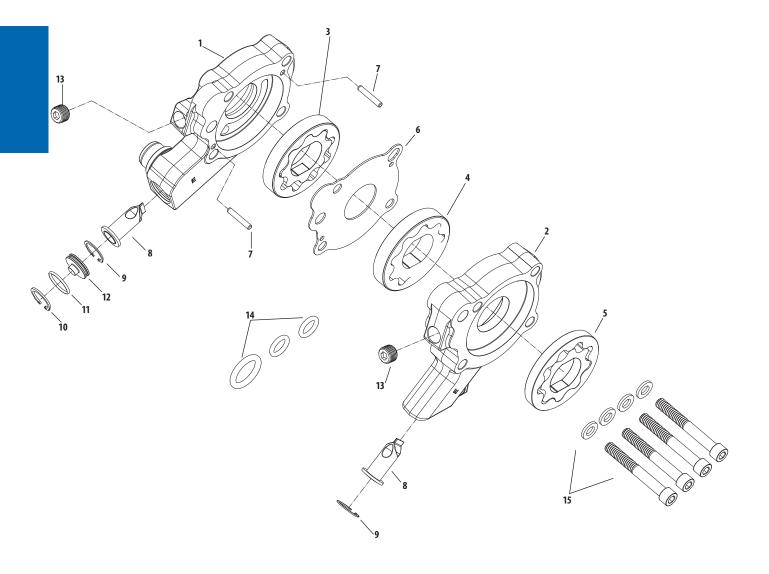
Washer, Flywheel, Thrust, 1.25" x 1.83" x .136", Hardened Steel	
+.001	1
+.002	
Race, Inner, Left Main Bearing,	
1.25" x 1.65" x .713", Hardened Steel 340-0076	,
Race, Inner, Right Main Bearing,	
1.25" x 1.65" x 1.120", Hardened Steel	
Connecting Rod, Set, Full Width Wristpin, 7.575", 120R 340-0062	
Connecting Rod, Set, Full Width Wristpin, 7.659" 340-0074	
Connecting Rod Set, Full Wristpin, 7.800", T143 340-0128	,
	Crankpin, Press-In, Straight, 1.671", 1999-Up bt (includes plugs) Standard

	Connecting Rod, Set, Tapered Wristpin, 7.659"	
7.	Bearing, Set, Rod, Standard	310-0752
	Bearing Set, Rod, Standard, T143	340-0127
8.	Plug, Drive, .8965" x .850", Steel, Fatigue Proof	
	2 pack	. 500-0187
9.	Retaining Ring, External, Pinion Bearing, 1.160" x 1.480"	x .046"
	Carbon Steel, SAE 1060-1090 11177A	50-8057
10.	Bushing, Wristpin, .928", Bronze each	



2%S Late Models 1999-up

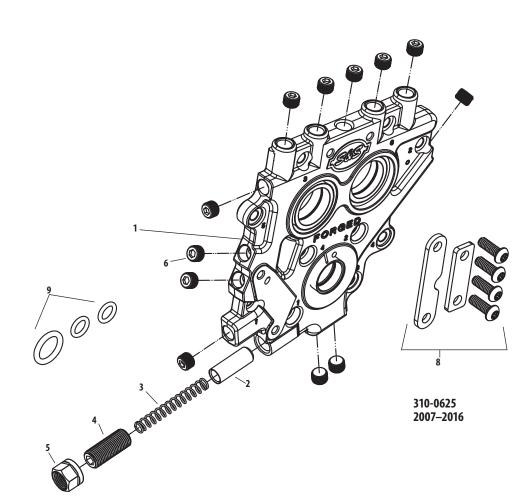
TC3 OIL PUMP REPLACEMENT PARTS



1.	Oil pump body case return section	NA
2.	Oil pump body cam chest return / pressure feed	
3.	Oil pump rotor set, flywheel cavity return	
4.	Oil pump rotor set, cam chest cavity return	
5.	Oil pump rotor set, supply	310-0561
6.	Plate, divider	
7.	Dowel Pin, .125 x .750 Hardened Steel	
8.	Debris screen	310-0546
9.	Internal Retaining Ring, .625	
10.	Internal Retaining Ring, 17mm	
	0-ring, 1.5mm x 14mm, Viton (5 Pack)	
	Oil pump return plug	
	Plug, Pipe 1/8" 27	
	0-ring kit	
	Screw, Kit, Oil Pump, 1999-Up BT	
	(1/4" 20 x 2" SHCS w/washers)	500-0327

TC3 CAM PLATE REPLACEMENT PARTS

1.	Cam support plate	N/A
2.	Pressure relief valve	31-6082-S
3.	Pressure relief spring	31-6018
4.	Pressure relief adjusting screw	. 170-0252
5.	Pressure relief adjusting screw lock nut	. 170-0251
6.	1/8" 27 taper pipe plug	.50-8331A
7.	Bearing retention plate kit	.330-0015
8.	Hydraulic tensioner block off kit	.106-5723
9.	O-ring kit	.500-0326



OIL PUMP REPLACEMENT PARTS FOR 2007–'16 HARLEY-DAVIDSON® BIG TWINS

1	Cover, assembly, camchest					
1.		N/A			oinion shaft	
2.					5C 10–24 x ¾" (5 pack)	
3.	•		27.	Screw FHS	5C 1/4"-20 x 2" (5 pack)	N/A
3. 4.	•	N/A		,	screw	
4. 5.	-	50-8245-S			ch)	
5. 6.		50-0044			, 3⁄32" diameter x 1" <i>(each)</i>	
7.		50-8182-S		-	ring (5 pack)	
7. 8.	-	31-2079-S		-		
	-	31-6508		-	6" O.D. x 1/16" Viton (-011)	
9. 10)N/A	34.	0-ring (-2	209) Viton <i>(each)</i>	50-8039
			35.	Washer, p	inion gear	50-0331-S
			36.	Screw, FH	HC - 5/16"-18 x 34" G8 <i>25566-06</i> .	50-0100
	* *		37.	Steel ball,	1/8" (each)	50-8092-S
		33–4214 bushing	38.	Pin dowel	275" I.D. x .3745" O.D. x .39	7" 50-8148-S
		33-4292	39.	Viton o-rir	ng (–207) <i>(5 pack)</i>	N/A
	·	N/A	40.	Viton o-rir	ng (–225) <i>(5 pack)</i>	N/A
		31-2089-S	41.	Viton o-rir	ng (–16) <i>(5 pack</i>)	N/A
1/.	(For reference only, not include		42.	Screw, FLC	1/4"–20 x 13/4" 905 (each)	50-0334-S
10		31-6505	43.	Pipe plug	1/8"-27 (each)	50-8331A
		31-6018		10 pack.		50-1015
17.	10 nack	31-6084	44.	Key kit – c	ams	N/A
20	Plunger, pressure control valve		45.	Camshafts	s - See Cam Selection Chart be	low.
20.		31-6082	46.		ure relief valve ¾" diameter	
21.					73	
			47.	Spring, pre	essure relief valve	
			N1 //	. N. cl		
		50-8066-S		S = Not Sh A = Not Av		
	35 31 36	8 32 14 9 9 10 10 10 10 12 8 32 11 12 8	15 38 38 41 6	16 47 7 17 7 16 2		25 9 20 34 27 27 2 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
FO FO	EAR DRIVE EASY START CA OR USE WITH S&S GEAR OIL OR 2007—'15 BIG TWIN AND m*	L PUMPS			39	26
_	5GPE		0		40	
		330-0369	_	28		
64	0GPE	330-0144				

*See page 88 of this catalog for further information on cam recommendations for different applications. DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. NOT LEGAL FOR SALE OR USE NATIONWIDE ON ANY FEDERAL POLLUTION CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT

All reference to HD @ part numbers is for identification purposes only. We in no way are implying that any of S&S Cycle'sproducts are original equipment parts or that they are equivalent to the corresponding HD® part number shown

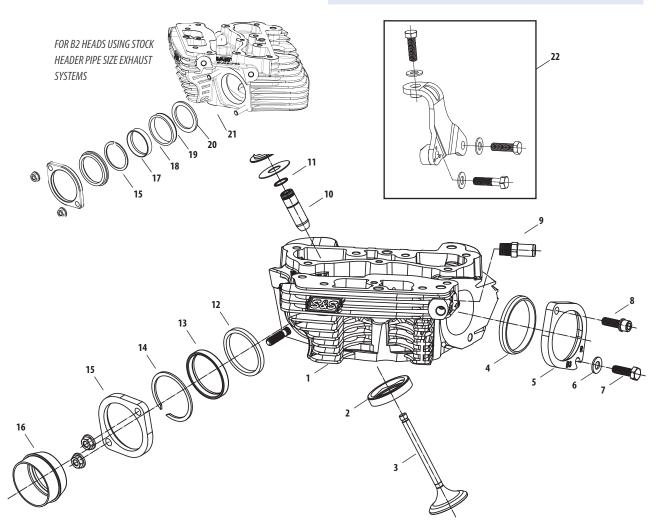


B3 CYLINDER HEADS REPLACEMENT PARTS FOR S&S T143 ENGINES

1.	Cylinder Heads Set, B3 Black	900-0803
	Stone Gray	
2.	Seat, Blank, B3 Heads, 2.300"	
	Intake	
3.	Exhaust	
٥.	Intake	.900-0678
	Exhaust	
4.	Seal,Manifold,B2 Heads,2.250" x 2.520" x .290	'16-0246-S
5.	Flange, Set	.160-0091
	Front	
_	Rear	
6. 7	Washer,Flat, .344" x .688" x .065",Zinc,Steel Bolt,Hex Head,Gr5, 5/6–18 x 1",Zinc	
7. 8.	Screw, SHCS, w/Flat Washer, 5/16–18 x 1", Zinc	
9.	Fitting, Pipe, Straight, 1/4–18 NPTF x 1.510" X .500	
		50-8158-S
10.	Valve Guide, Intake, Powder Metal	.900-0780

11.	Retaining Ring, External, Spiral, Heavy Duty, .525'	
12	Carbon Steel Exhaust Gasket Backing Washer,	. 100-2104
12.	2.18" x 1.885" x .200"	. 550-0219
13.	Exhaust Gasket, Tapered, Stainless Steel	
14.	Exhaust Flange Retaining Ring, 2.125" x .078".	50-8159-\$
15.	Exhaust Flange	.550-0223
16.	Weld-On Exhaust Header Pipe	.550-0222
17.	Exhaust Adapter Flange for Stock Header Pipe.	.550-0224
18.	Exhaust Flange Retaining Ring, 1.759" x .062".	.550-0226
19.	Exhaust Gasket, Tapered Stainless Steel	. 106-5029
20.	Press-in Aluminum Retaining Ring, 1984—up.	.550-0225
21.	Exhaust Gasket Backing Washer,	
	2.18" x 1.690" x.125"	.550-0220
22.	Head Mount Bracket Kit	
	2008 T 1 4 3	.900-0797
	2009-up T143	.900-0798

VALVE SPRING REPLACEMENT PARTS: SEE PAGE 130

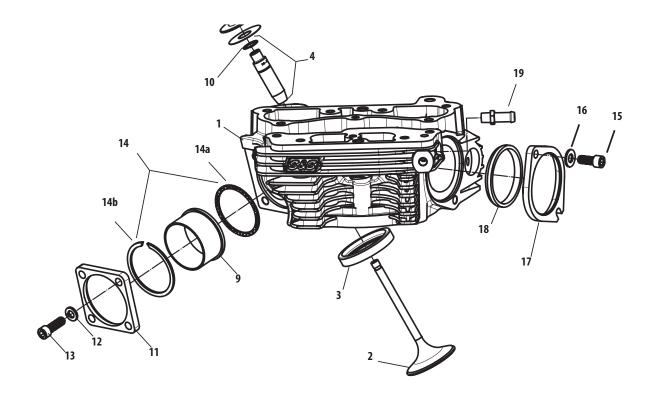


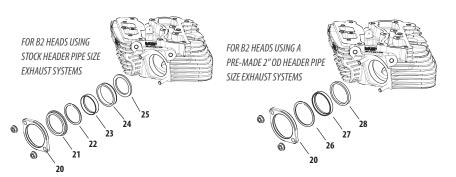
&S Late Models 1999-up

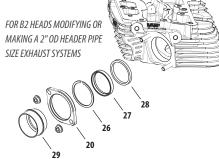
B2 CYLINDER HEADS REPLACEMENT PARTS

1.	Cylinder head — (See page 98)	
2.	Valve	
	Intake, 2.200" Dia	90-2127
	Exhaust, 1.800" Dia	90-2128
3.	Valve Seat	
	Exhaust, 1.800" Dia,	90-2126
	Intake, 2.200" Dia,	90-2125
4.	Valve quide, intake/exhaust, cast	
	STD	106-2166
	+.030"	106-2170
9.	Adaptor, Exhaust Flange	55-6022
10.	Snap ring (each)	106-2164
11.	Flange, exhaust, front/rear	
12.	Washer,Lock,.332" x .583" x .078"	50-7032
13.	Screw, SH, 5/16" -18 x 1" <i>3201WA, 2708</i>	50-0101
14.	Gasket,Kit,Exhaust,B2 Heads,SA	90-1900
	Kit includes two each:	
	a. Gasket, exhaust pipe (each)	93-1083-S
	6 pack	
	b. Retaining Ring	

. 50-0302-S	Screw, SH, 5/16–18 x 3/4" 3275 each	15.
50-7034	Washer, 5/16" <i>6320, 70907-07, 6016, 6702</i>)	16.
	Manifold mounting flange	17.
16-0247	Front	
16-0248	Rear	
. 16-0246-S	O-ring, manifold (each)	18.
	6 pack	
		19.
		20.
		21.
550-0224	1984—up S&S® B2 Heads	
550-0226	Exhaust Flange Retaining Ring, 1.759" x .062"	22.
		23.
106-5029	65324-83B, 65324-83A	
	Press-in Aluminum Retaining Ring, 1984—up	24.
550-0225	S&S® B2 Heads	
	Exhaust Gasket Backing Washer	25.
550-0220	2.18" x 1.690" x.125"	
. 50-8159-S	Exhaust Flange Retaining Ring, 2.125" x .078"	26.
		27.
550-0221	1984—up S&S® B2 Heads	
		28.
550-0219	2.18" x 1.885" x .200"	
	Weld-On Exhaust Header Pipe	29.







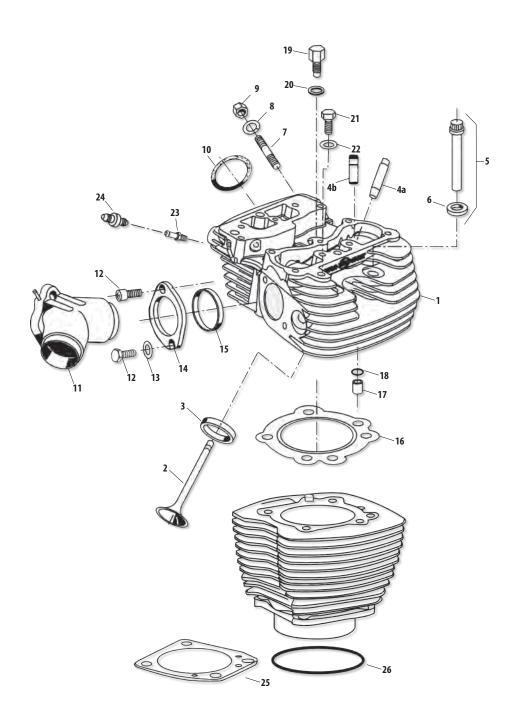
SUPER STOCK® CYLINDER HEADS REPLACEMENT PARTS FOR 2007–2016 BIG TWIN ENGINES

H	JK 2UU <i>I–</i> 2U16 BIG I WIN ENGI	NF2
1.	Cylinder head (Starting page 99)	
2.	Valve	
	All S&S heads with 89cc or 91cc chamber	
	Intake	.
	2.000" diameter	90-2000
	2.000"diameter +.085" stem length	90-2004
	Exhaust 1.605" diameter	BA 00-2001
	All S&S heads with 79cc chamber	470-2001
	Intake — 1.940" diameter	90-2025
	Exhaust — 1.575" diameter	
3.	Valve seat	
	All S&S heads with 89cc or 91cc chamber	
	Intake – 2.000" diameter	1,2,390-2002
	Exhaust - 1.605" diameter	1,2,390-2003
	All S&S heads with 79cc chamber Intake – 1.940" diameter	00 2027
	Exhaust – 1.575" diameter	
4.	LAHAUSE - 1.373 UIAHIEEEL	>0-2020
т.	a. Valve guide – Intake or Exhaust Cast	
	Standard 18112-92	7,,90-2210
	+.001" <i>18130-83C</i>	90-2211
	+.002" 18133-83A, 18133-83D	90-2217
	+.003" 18131-836	Ø 00-2212
	+.030"	90-2219
	b. Valve Guide – Intake or Exhaust Powder Metal (PM)	- 7 17
	Standard	900-0553
	+.001	900-0554
	+.002	
	+.003	
5.	Head bolt assembly — (8 Required) (Includes head bol	
	each	
_	4 pack	
6.		
7.	Exhaust port stud 16715-83 (each)	₩₩ 50-1028
8.	Lock washer – 5/16"	50-1020
o. 9.	Nut, flanged – 5/6" –24 7593	30-7032
7.	Zinc (each)	50-5025-5
	2 pack	
	5 pack	
	Chrome (each)	
10.	Exhaust pipe gasket, tapered 65324-83B, 65324-83A	
	each	
	10 pack	93-1072
11.	Intake manifold (see page 105)	
12.	Manifold mounting screw	
	SH – 5/16"–18 x 3/4" 3275 (each)	
	SH - 5/16"-18 x 1" <i>3201WA, 2708</i>	
	HH - 5/16"-18 x 1" 3987 (each)	[™] •50-0108
13.	Flat washer – 5/16" <i>6320, 70907-07, 6016, 6702</i>	
14.	Manifold mounting flange	_
	Front 27009-86A (each)	16-0232
	5 pack	∞ 16-0600
	Rear 27010-86A (each)	16-0233

		.a
	5 pack	16-0601
	Set (Front & Rear)	106-3516
15.	Manifold o-ring	16 0225
	For S&S manifold (each)	
	For Stock manifold 26995-86B, 26995-86A, 26992-99	™_16 0226
	10 pack	
16	Head gasket	10 0211
	For Stock Bolt Pattern	
	33/4" x .043" Graphite (each)	93-1045-S
	3%"/3.927" x .030" Layered Steel (2 pack)	
	3%"/3.927" x .045" Layered Steel (each)	
	4" x .043" Graphite (each)	
	10 pack	
	41/8" x .043" Layered Steel (each)	
	10 pack	93-1920
	4½" x .030" Layered Steel (2 pack)	900-021/
	41/8" x .043" Graphite (each)	93.1047.5
	10 pack	
	43/8" x .045" Copper (2 pack)	
17.	Alignment dowel, base and head 16595-99A (each)	
	4 pack	
18.	Alignment dowel o-ring — Base (all bore sizes)	
	S&S heads 3¾" bore only 11105, 11273	
	each	50-8008
	10 pack	
19.	Plug, HH – 14mm (each)	
20	2 pack	90-4916-2
20.	Washer, compression – 14mm 507" x .705" x .047" (each)	E0 700 <i>4</i>
21	Head mount bolt - 3%"-16 x 11/4" 4716W	30-7034
21.	each	50-0168
22	Flat washer – 3%" (each)	
	Vent hose fitting, (For 41/8" Bore Only)	50 7051
23.	Front, 1/16"–27 pipe	50-8117
	Rear, 1/8"-27 pipe	
24.	Check Valve (For 41/8" Bore Only)	
25.	Base Gaskets	
	For S&S Bores	
	4¾" x .018" Graphite (2 pack)	
	41/8" x .018" Graphite (each)	
	10 pack	
	4" x .018" Graphite (each)	93-1050-S
	41/8" x .018" Graphite (each)	02_1002_0
	10 pack	
26	Base O-ring (Used for early S&S bores)	
20.	4" x .103" (each)	50-8049
	35/8" or 31/2" x.103" (each) 11256	
	2.2 2.3/2 /ii.03 [eddiy /1230	

*WARNING: Cancer and Reproductive Harm

VALVE SPRING REPLACEMENT PARTS: SEE PAGE 130



TOP END GASKET KIT FOR S&S ENGINES

TOT BILD CHOKET KITTOK DAD BILGINED	
Bore	Part #
43/8"	90-9511
41/8" Stock Cases	90-9510
4" Stock Bolt Pattern	90-9505
3%" Stock Bolt Pattern	90-9504

Kits include all gaskets and seals required to rebuild the top end of an S&S engine with S&S cylinders and cylinder heads. Rocker cover gaskets are not included in kits. See "Rocker cover gasket kits" on page 112 to order separately.

VALVE GUIDE DIAMETERS FOR S&S® T-SERIES ENGINES

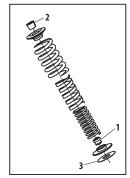
Oversize	Diameter	Part Number
Std.	.5625/.5620	90-2210 USA _{1,2,3}
+.001	.5635/.5630	90-2211
+.002	.5645/.5640	90-2212
+.003	.5655/.5650	90-2213
+.030	.5925/.5920	90-2219

8.8 Late Models 1999-up

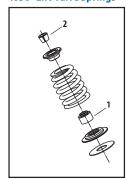
VALVE SPRING REPLACEMENT PARTS

.72	20" & .660" Lift Valve Springs (B3 Cylinder He	ads)
1.	Seal, valve guide, intake/exhaust 18001-83B (each) 🗣	90-2008
	8 pack	
2.	Keeper, valve spring, SA	90-2153A
3.	Valve spring shim	00 2006
	.015" <i>(each)</i>	
	.030" (each)	
	5 pack	
	3 pack	, , , , , , , , , , , , , , , , , ,
	50" Lift Valve Springs (B2 Cylinder Heads)	
1.	Seal, Valve Guide, fits .315" x .554"OD, Viton® (4 pack)	900-0737
2.	Keeper, valve spring, Standard, 9°	. 90-2094-S
.6	50" Lift Sidewinder® Valve Springs	
(St	tock, Super Stock® & CNC Ported Cylinder He	
1.	Spring, Valve .650"	
2.	Collar, Top, Steel	
3.	Collar, Bottom, Steel	106-5691
4.	Seal, Valve S&S CNC Ported Heads & 2005-up bt w/7mm valve ste	∞ 10€ E600
	S&S Super Stock Heads	1100-3000
	.420" Cast (each)	900-0338
	.562" Powder Metal (4 pack)	
5.	Keeper, valve spring	
6.	Valve Spring Shim	
	.015" (each)	500-0013
	.030" (each)	500-0014
	85" Lift Valve Springs tock, Super Stock® & CNC Ported Cylinder He	1-1
1.	Spring, Valve .585"	
2.	Collar, Top.	
3.	Collar, Bottom	
	For Stock Heads w/7mm valve stem (includes seal).	900-0590
	For CNC Ported Heads w/7mm valve stem	900-0549
	For Super Stock Heads	900-0600
4.	Seal, valve guide	
	For Stock Heads w/7mm valve stem	
	(includes bottom collar)	900-0590
	For CNC Ported Heads w/7mm valve stem	106-5688
	For Super Stock Heads	000 0330
	.420" Cast (each)	
5.	Keeper, valve spring	900-0/3/
J.	For Stock and CNC Ported Heads	106-5692
6.	For Super Stock Heads	
6.	For Super Stock Heads	
6.	For Super Stock Heads	. 90-2094-S
6.	For Super Stock Heads Valve spring shim For Stock and CNC Ported Heads	. 90-2094-S 500-0013
6.	For Super Stock Heads Valve spring shim For Stock and CNC Ported Heads .015"	. 500-0013 500-0014
6.	For Super Stock Heads Valve spring shim For Stock and CNC Ported Heads .015"	500-0013 500-0014

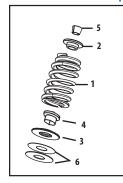
.720" & .660" Lift Valve Springs



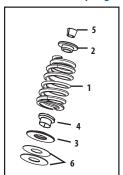
.650" Lift Valve Springs



.650" Lift Sidewinder® Valve Springs

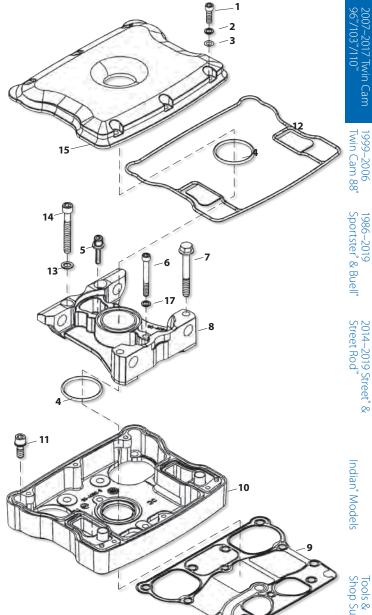


.585" Lift Valve Springs



DIE-CAST ROCKER COVER REPLACEMENT PARTS FOR 2007–2015 BIG TWIN ENGINES

1. 2. 3.	Screw, socket head ¼"-20 x ¾" 4069A (each). Washer, flat ¼" (each). 12 pack. Washer, silicone coated ¼" (each). 8 pack. 12 pack.	50-7017 50-7013 50-7015 50-7015-8
4.	Seal, o-ring	
5.	(Included in gasket kit see #16 below.) Screw, socket head, ¼"-20 x 1" 4741A	
6.	each	.50-0092P
6. 7.	Screw, hex flange head, 5/6" – 18 x 2½" 3501	
8.	Support, rocker arm	
9.	Gasket, rocker cover, Graphite	
	For Stock or S&S rocker covers on stock heads 16719-998 each	90-4071 90-4099
	2 pack	
10. 11. 12.	Housing, rocker, Chrome	
13.	Washer, flat 5/16" (each)	50-7026
14.	Screw, socket head 5/16"-18 x 21/4"	F0 044F C
	each	
15. 16.	Cover, rocker, chrome	
16. 17.	Gasket set – rocker cover, cast (Not Shown) Washer, 261" x .474" x .050", Annealed, Stainless Steel	90-4111
	each	50-7020

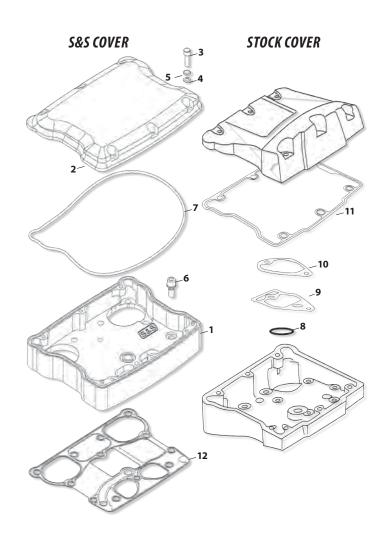




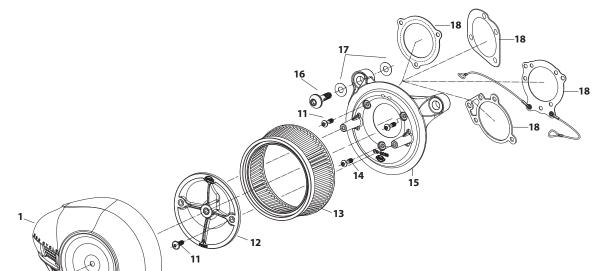
BILLET ROCKER COVER REPLACEMENT PARTS FOR 1999–2017 BIG TWIN ENGINES (DISCONTINUED) EXCEPT 2017 TOURING MODELS

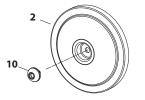
1.	Base assembly, rocker	N/A
2.	Top, rocker cover	N/A
3.	SHCS, 1/4"-20 x 3/4" 4069A (each)	50-0067
4.	Washer, flat, chrome, 260" x .425" x .060"	
	each	50-7017±
	12 pack	
5.	Washer, flat, rubber coated, 1/4" x 7/16" x .020"	
	each	50-7015
	8 pack	0-7015-8
	12 pack	-7015-12
6.	SHCS, 5/16"-18 x 1" with flatwasher	0-0125-S
7.	O-ring, rocker cover seal, Viton®	
	(Included in gasket kit #90-4073. See below)	
8.	O-ring, (-114), .625" ID x .937" OD 11270	50-8033
9.	Gasket, Breather Baffle, Stock Pattern, Paper, 1999-'10 bt	
	17162-03, 17592-99 each	90-4078
10.	Gasket, Breather Cover, Stock Pattern, Paper, 1999-'10 bt	
	17591-99, 17162-03, 17592-99 each	90-4077
11.	Gasket, Rocker Cover, Steel, 1999-up bt 17386-99A 90)-4096-S
12.	Gasket, bottom rocker cover	
	2 pack	90-4071
	10 pack	
13.	Gasket kit, rocker cover (includes gaskets for 2 rocker covers	
	For S&S billet rocker covers	, ,
	(includes #5,7,8,9,10,12)	90-4073
	For 1999-'10 bt	
	(includes #8,9,10,11,12)	90-4097

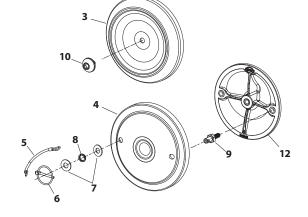
N/A = No longer available



STEALTH REPLACEMENT PARTS







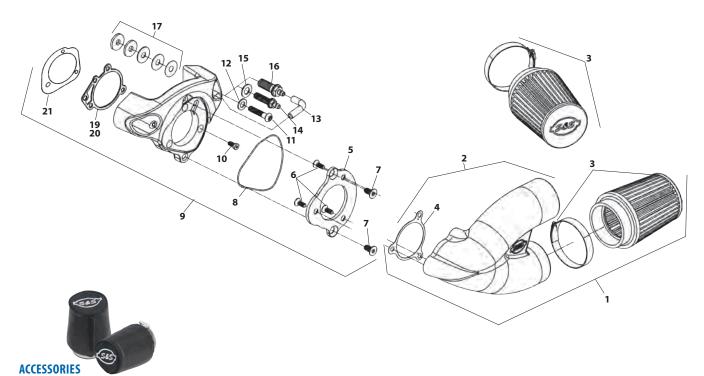
	6 11 61 11 1	
1.	Cover, Air Cleaner Airstream	
	Chrome	
	Gloss Black	. 1/0-0396
2.	Cover, Air Cleaner, Domed Bobber	
	Chrome	
	Black Jack	. 170-0124
3.	Cover, Air Cleaner, Dished Bobber	
	Chrome	
	Wrinkle Black	. 170-0123
4.	Cover Air Cleaner, Muscle	
	Chrome	
	Gloss Black	
5.	Lanyard, 6" Stainless Steel	
6.	Lynch Pin	
7.	Washer, Fender, Chrome Plated.	
8.	Spring, Wave Washer, Stainless Steel	
9.	Screw, Hex, Hood-pin, ¼-20, UNC	
10.	Air Cleaner Cover Screw, SHCB, 5/6"-18 UNC X .500"	. 170-0508
11.	Screw, SHC, Flanged Button, ¼-20 UNC x .750"	.500-0060
12.	Top Plate, Air Filter, Molded, Plastic	. 170-0026
13.	Filter, Air, Tapered,	
	Standard Pleated, Cotton, Stealth Air Cleaner Kit	
	1" Taller Pleated, Cotton, Stealth Air Cleaner Kit	. 170-0127
	1" Taller Pleated, Cotton Filter Only	. 170-0154
14.	Screw, SHCB, 1/4-20 UNC X .825"	.500-0059
15.	Duchplace	
	1993-up Stock CV Carb; 2001-up Delphi® EFI	
	(except Throttle by Wire)	
	2008-up bt, Delphi® EFI w/Throttle by Wire	
16.	Screw, Backplate Vent, SHCB, ¾-16 x 1½", Polished Stain	
17.	Washer,Flat, ,Nitrile Rubber Coated, .380" x .880" x .024"	
	each	
	10 pack	50-7059
18.		
	Stock CV Carb & EFI Throttle Body, 1991-up bt	
	(except Throttle by Wire) 29062-95B	
	2008-up bt, Throttle by Wire	
	Super E/G,CV Adapter	. 106-1724
	w/lanvards for use with Muscle Cover	. 170-0137

w/lanyards for use with Muscle Cover 170-0137

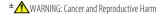
SINGLE BORE TUNED INDUCTION SYSTEM REPLACEMENT PARTS FOR S&S T-SERIES ENGINES AND 2007—'16 BIG TWINS, EXCEPT 2008—'16 TOURING MODELS

1.	Tuned Intake Kit, 2.19" Single Bore with Red Filters	
	Gloss Black	
2.	Chrome Plated	. 106-4967±
۷.	Tuned Intake Assembly, 2.19" Single Bore Natural	106-4968
	Gloss Black	
	Chrome Plated	
3.	Air Filter, w/clamp, Stainless Cap — Conical — 27/16" I.D. >	(4"
	Red (each)	
	Blue (each)	
4.	Gasket, Intake — Adapter Plate	17-1022
5.	Plate, Adapter, 2.19" Single Bore Tuned Intake Chrome Steel	17_101 <i>1</i> ±
6.	FHSC 1/4-20 x 5/8" (each)	
7.	FHSC 5/6-18 x 5/8" (each)	
8.	O-Ring, Adapter Plate Bracket 35%" O.D. x 31/2" I.D. 1/16 CS	
	each	50-0446
9.	Bracket Kit, 2.19" Single Bore Tuned Intake, Chrome	
	Single VFI, S&ST124	
	Single VFI, 1984-up BT	
10	Stock Carb, Delphi® EFI, 1984-up BT	
10.	10 pack	
11.	Screw, 5/16 – 18 x 11/4, BHC, Chrome (each)	
	Flat Washer 5/16" x 1/16" 6320, 70907-07, 6016, 6702	
	Hose, Breather, ¼" I.D., 90°	
	Screw, Breather Fitting, % -16 x 11/4"	

15. Washer, Flat, 3%" x 13/16" x 1/16", Chrome	50-7106-S±
16. Screw, Breather Fitting, ½ –13 x 1.25.	
17. Shim Kit	50 0 155
(a) 5/6" I.D. S&S 41/8" engines	17-0314
Includes:	
.325" x 1" x .018",Stainless Steel (each)	50-7038
.325" x 1" x .030", Stainless Steel (each)	
.325" x 1" x .048", Stainless Steel (each)	
.325" x 1" x .105",Stainless Steel (each)	
.325" x 1" x .125", Stainless Steel (each)	
(b) ½" I.D. 1993-up BT	
Includes:	
.515" x 1" x .018", Stainless Steel (each)	50-7085
.515" x 1" x .030", Stainless Steel (each)	
.515" x 1" x .048", Stainless Steel (each)	
.515" x 1" x .105", Stainless Steel (each)	
.515" x 1" x .125", Stainless Steel (each)	
19. Gasket, Backplate – E/G/SBEFI (each)	
10 pack	
20. Gasket, Backplate, S&S SBEFI 58mm	
21. Gasket, Backplate, Stock carb/Throttle Body 29062-95B	
22. Hardware Kit	
2007-'12 bt, except 2008-'12 Touring	
(includes #7, 8, 10, 11, 12, 13, 14, 15, 16, 17a, 17b, 19, 21)	17-5098
S&S 41/8" Bore Heads (includes #7, 8, 10, 11, 12, 13, 17a, 19)	
23. Oil, Air Filter, 8 oz. (Not shown)	
Red	106-1163
Blue	

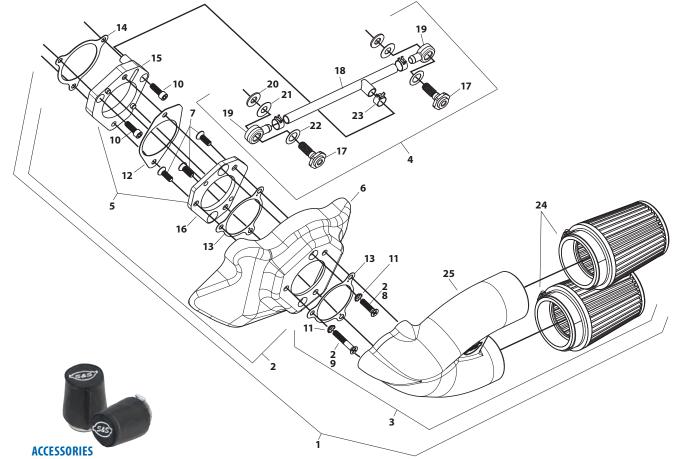


Description		Part #
Mulan Air Filtor Cover	each	106-0247
Nylon Air Filter Cover	2 pack	106-0248



THROTTLE BY WIRE SINGLE BORE TUNED INDUCTION REPLACEMENT PARTS

1.	Intake Runner, Kit, Single Bore, 2.19", 2008–Up Touring (See page 64)	18.	Hose, Vent, Breather	339
2.	Installation Kit, Throttle by Wire, 2008-up bt	19.		350
3.	Intake Runner, Single Bore, w/Gasket & Air Filter, 2.19"		2 pack	
	Gloss Black	20.	Washer, Flat, .375" x .813" x .063", Zinc, Steel	
	Chrome Plated		each 50-70	051
4.	Breather, Kit, Throttle by Wire, 2008-up bt	21.	Washer, Flat, .380" x .880" x .024", Nitrile Rubber Coated, Cold Rol	lled Steel
5.	Mount, Kit, Spacer/Adapter, Throttle by Wire, 2008-up bt. 106-4824		each	
6.	Cover, Induction Module, Throttle by Wire, Plastic, 2008-up 106-3612		10 pack	059
7.	Screw, FHSC, ¼-20 x ¾", Zinc Plated	22.	Washer, Flat, .520" x .880" x .024", Nitrile Rubber Coated, Cold Rol	lled Steel
8.	Screw, FHSC, 1/4–20 x 1", Black Chrome		each	
9.	Screw, FHSC, 14–20 x 11/2", Black Chrome		10 pack	057
10.	Screw, SHC, 1⁄4-20 x 3⁄4", Chrome, ASTM A574-92A 4069A . 50-0067 ±	23.		
11.	Washer, countersunk, external tooth, ¼" x ½", parkerized steel	24.	Air Filter, with Clamp, Stainless Cap, Conical, 27/16" I.D. x 4"	
	106-4980		Red (each)	020
12.	Gasket, Intake Adapter, Throttle by Wire, 2008-up bt 106-4428		Blue (each)	023
13.	Gasket, Intake Adapter, .020", 2.19", Gray, Paper	25.	Intake Runner, Single Bore, 2.19" + Gasket	
14.	Gasket, Throttle Body, Throttle by Wire, 2008-up bt 29645-08		Natural	968
	each		Gloss Black	453
	Gasket, S&S Throttle Hog, 58mm		Chrome Plated 106-49 7	70±
	Gasket, S&S Throttle Hog, 66mm & 70mm	26.	Oil, Air Filter, 8 oz. (Not shown)	
15.	· · · · · · · · · · · · · · · · · · ·		Red	163
16.	Adapter, Plate, Throttle by Wire, Intake Runner		Blue	164
	Screw, Breather, 3/8–16 UNC, +.250, 2008 Touring (each) 106-2667			



Description		Part #
Nulan Air Filton Correr	each 106-0247	
Nylon Air Filter Cover	2 pack	106-0248

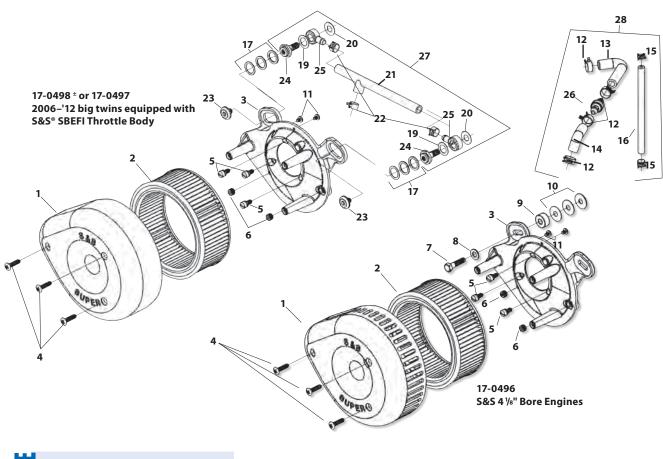
*WARNING: Cancer and Reproductive Harm



CLASSIC TEARDROP AIR CLEANER REPLACEMENT PARTS FOR S&S® SINGLE BORE EFI

1.	Air Cleaner Cover	
	Slasher (slotted chrome)	17-0004 [±]
	Chrome	17-0378 [±]
	Gloss Black (includes black screws)	170-0384A
2.	Element, pleated	106-4722
3.	Backplate SBEFI	
	2006-'16 bt	17-0120
	S&S 41/8" bore engines	17-0380
4.	Screw, Cover, oval 1/4-20 x 1	
	Chrome 1305 (each)	50-0072±
	3 pack	50-1052 [±]
	10 pack	
	Black 902 (each)	
	3 pack	
5.	Backplate screw	
	Zinc Plated (each)	106-2084
	10 pack	106-2105
6.	Pipe plug, 1/8, air cleaner backplate (each)	
	10 pack	
7.	Mounting bracket bolt, hex 5/16-18 x 11/4	50-0110
8.	Flat washer, 5/16" x 1/16" 6320, 70907-07, 6016, 6702	50-7034
9.	Shim, .850" x .325" x .400"	
10.	Shim kit for 41/8" bore	17-0314
	Individual shims:	
	5/16" X .018" (each)	50-7038
	5/16" X .030" (each)	50-7039
	5/16" x .048" (each)	50-7040
	5/16" x .105" (each)	50-7041
11.	Screw,PH,10-24 x 1/4",Zinc,Steel (each)	50-0041
	10 pack	50-0062

12. Clamp, Spring, .660"	. 50-8262-S . 50-8263-S
16. Hose,Cut To Size,.1875" x 6",Black,Rubber	50-8142AS
17. Shims, individual	
% x % x .025 (each)	
10 pack	
5% x 7% x .050 (each)	
10 pack	
5⁄8 x 7⁄8 x .075 (each)	50-7115
10 pack	50-7112
18. Air cleaner hardware kit	
2006–'16 bt (includes #4, 5, 6, 11, 17, 23)	17-0482
S&S 41/8" bore (includes #4, 5, 6, 7, 8, 9, 10, 11)	17-0481
19. Silicone washer, ½" ID (each)	50-7055
10 pack	50-7057
20. Silicone washer, 3/8" ID (each)	50-7054
10 pack	50-7059
21. Hose, Vent, Breather, Epichlorohydrin Polymer	
22. Clamp, Spring, %6"	50-8001
23. Screw, wide head, 5/16-24 x 36	
24. Breather vent fitting	
2006-'16 bt	17-0345
25. Breather fitting (each) 17-0350	
2 pack	
26. Check Valve	
27. Breather hardware for 2006-'16 bt*	
28. Breather hardware for 41/8" bore*	
(*Not included in air cleaner kit)	



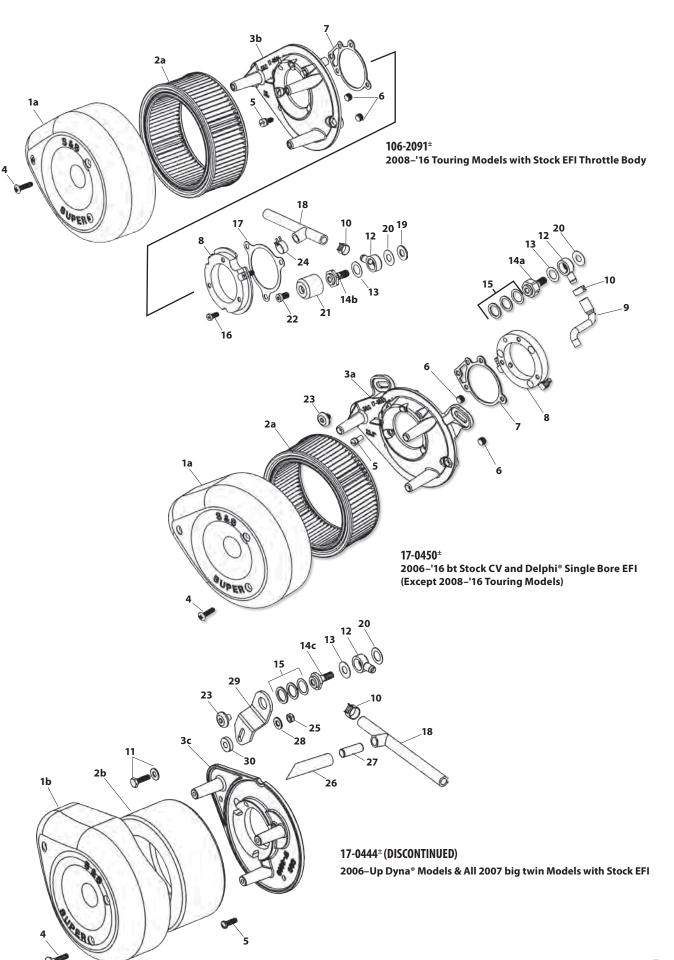


CLASSIC TEARDROP AIR CLEANER REPLACEMENT PARTS FOR STOCK FUEL SYSTEMS

	Ata alaman assau	
1.	Air cleaner cover	17 0270+
	ChromeGloss Black (includes black screws)	
	Slasher	
2.	Filter Flement	1/-0004
۷.	a. Pleated	106 4722
	b. Foam (for 17-0444 kit only)	
3.	Backplate	1/-00/9
Э.	a. 2006-'16 bt (except 2008-'16 touring models)	106-0007
	b. 2008–'16 touring models	
	c. 2006-up Dyna® models & all 2007 bt with stock E	
4.	Cover screw, 1305	11. 17 0003
7.	Chrome (each)	50-0072±
	3 pack	
	10 pack	
	Black (each)	
	3 pack	
5.	Backplate screw, Zinc Plated (each)	
	10 pack	
6.	Backplate plug 1/8"-27 (each)	
	10 pack	50-1015
	Backplate plug .285" x .170"	50-8306
7.	Gasket, backplate	
	CV Adaptor, .0625" (each)	106-1724
	10 pack	106-2328
	2006 - '12 bt <i>29062-95B.</i>	106-6022
8.	Adaptor assembly	
	2006–'12 bt (except 2008-'12 touring models)	
	2008-'12 touring models	
9.	Hose, vent, breather, .250" x .375" x 1.825" (each)	
	Clamp, spring, %6"	
	Screw, w/lockwasher SLTD FH,¼–20 x ¾",Zinc,Steel	
12.	Banjo fitting (each)	
43	2 pack	
13.	Washer, silicone coated steel, %" (each)	
14	10 pack	50-/059
14.	Breather screw a. +.250", 2006-'12 bt (except 2008-'12 touring models).	17 02/10
	b. %=16 UNC, +.250, 2008-'12 Touring (each)	
	c. 3%–16 NC, 2006-up Dyna models & all 2007 bt	
15	Replacement shims	17 0545
	5/8" x .025" (each)	50-7113
	10 pack	
	5%" X .050" (each)	
	10 pack	
	5%" X .075" (each)	
	10 pack	
16.	Screw, LSHC, ¼-20 x ½", zinc plated (each)	
	10 pack	
17.	Gasket, throttle body, throttle by wire, 2008-up BT 29645	
	each	106-2643

18. Hose, vent, breather	USA _{1,2} 17-0339
19. Washer, flat, .375" x .8	
each	50-7051
20. Washer, silicone coated	d steel ½" (each)
10 pack	50-7057
	chrome, aluminum 106-2022 ±
	/2", stainless steel
	Special Socket Panh 17-0346
-	50-8076-9
	3 x .328", Zinc, Steel 50-5010
	cut
	17-0336C-9
-	15, 6703, 6736, 6228W, 6192 (each) 50-7021
	"50-7024
31. Mounting Hardware Ki	
-	3-'12 touring models)
(includes 7,5,25,11,9,19,1	
	els
	5,22,17,11,18,12,19,10,27,33)
, ,	
33. Screw,PH, ¼-20 X 1",NI	ckel, Stainless Steel 1305 (N/S) 50-0072

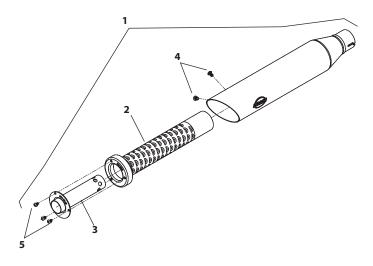
(N/S) = Not Shown



SLASH CUT SLIP-ONS FOR DYNA® MODELS REPLACEMENT PARTS

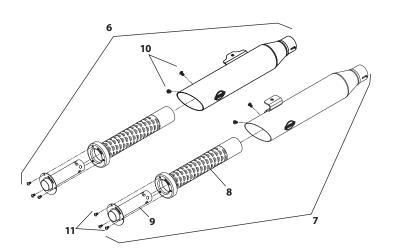
Kit Part #s: 550-0718* and 550-0720

1.	Slash Cut Muffler Assembly, Front or Rear	
	Chrome	551-0308 [±]
	Black	551-0311
2.	Main Baffle Assembly	551-0301
3.	dB Reducer Baffle	551-0350
4.	Button head cap screw, Stainless, ¼"-20x3/8"1	
	(Hold Main baffle assy to muffler shell)	500-0441
5.	Socket head cap screw, Stainless, 10-32x3/8"	
	(Hold db reducer baffle to main baffle assy)	500-0570
	· ·	



Kit Part #s: 550-0722* and 550-0724

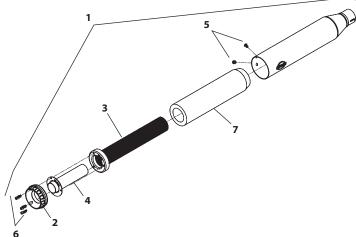
6	Top Muffler Assembly Slash Cut	
	Chrome	551-0320±
	Black	551-0323
7.	Bottom Muffler Assembly, Slash Cut	
	Chrome	551-0326 [±]
	Black	551-0329
8.	Main Baffle Assembly	551-0301
9.	dB Reducer Baffle	551-0350
10.	Button head cap screw, Stainless, 1/4"-20x3/8"	
	(Hold Main baffle assy to muffler shell)	500-0441
11.	Socket head cap screw, Stainless, 10-32x3/8"	
	(Hold db reducer baffle to main baffle assy)	500-0570



GRAND NATIONAL® SLIP-ONS FOR DYNA® MODELS REPLACEMENT PARTS

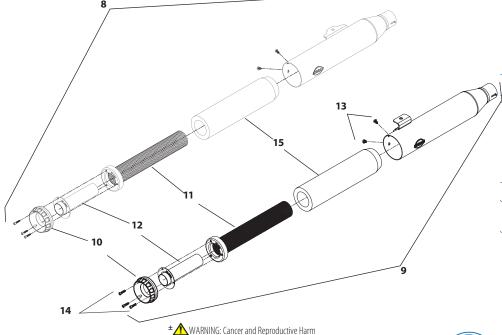
Kit Part #s: 550-0719 and 550-0721

1.	Grand National Muffler Assembly Front or Rear	
	Chrome	551-0314 [±]
	Black	551-0317
2.	Endcap	551-0294
3.	Main Baffle Assembly	551-0299
4.	dB Reducer Baffle	551-0304
5.	Button head cap screw, Stainless, 1/4"-20x3/8"	
	(Hold Main baffle assy to muffler shell)	500-0441
6.	Socket head cap screw, Stainless, 10–32x3/4"	
	(Hold Endcap to main baffle assy)	500-0569
7.	Insulation, Muffler, Pillow Pack	



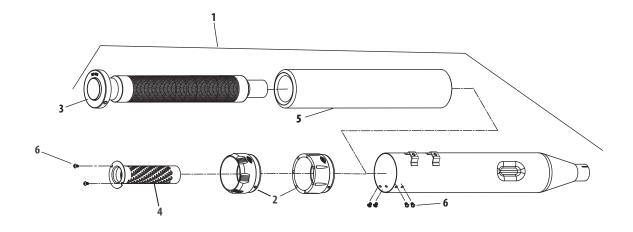
Kit Part #s: 550-0723 and 550-0725

8.	Muffler Assembly, Grand National, Top	
	Chrome	551-0332 [±]
	Black	551-0335
9.	Muffler Assembly, Grand National, Bottom	
	Chrome	551-0338±
	Black	551-0341
10.	Endcap	551-0294
11.	Main Baffle Assembly	551-0299
12.	dB Reducer Baffle	
13.	Button head cap screw, Stainless, 1/4"-20x3/8"	
	(Hold Main baffle assy to muffler shell)	500-0441
14.	Socket head cap screw, Stainless, 10–32x3/4"	
	(Hold Endcap to main baffle assy)	500-0569
15.	Insulation, Muffler, Pillow Pack	
-		0



Mk45 4.5" MUFFLER REPLACEMENT PARTS

1.	4.5" Muffler Assembly	
	Left, Chrome	\$289.95
	Right, Chrome	\$289.95
	Left, Black	\$354.95
	Right, Black	\$359.95
2.	Endcap	
	Thruster, Chrome	\$174.95
	Thruster, Highlighted Machined	\$159.95
	Tracer, Chrome	\$174.95
	Tracer, Highlighted Machined 550-0632A	\$159.95
3.	Main Baffle Assembly, 4.5" Muffler 551-0007	\$71.95
4.	dB reducer	\$23.95
5.	Insulation, 4.5" Muffler	\$25.95
6.	Button Head Cap Screw, Stainless, ¼"-20 X ¾"	\$0.95
7.	Hardware Kit, Muffler Clamps And Screws (N/S)	\$27.95



GRAND NATIONAL® 4" REPLACEMENT PARTS

1.	4" Muffler assembly with Grand National Endcap		
	Left, Chrome	551-0055±	
	Right, Chrome	551-0056±	
	Left, Black	551-0057	
	Right, Black	551-0058	
3.		551-0291	
4.	Main baffle assembly (Left and Right)	551-0053	
5.	dB reducer baffle (Left and Right)		
6.	Button head cap screw, Stainless, ¼"-20x ¾"		
7.	Socket head cap screw, Stainless, 10-32x ¾"		
9.	Hardware kit, muffler clamps and screws (N/S)		
		/	
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		N. P.	
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SLASH CUT 4" REPLACEMENT PARTS

1.	4" Muffler assembly Slash Down	
	Left, Chrome 551-0059 ±	
	Right, Chrome	
	Left Dlack	
	Left, Black	
	Right, Black	
4.	Main baffle assembly (Left and Right)	
5.	dB reducer baffle (Left and Right) 551-0063	
6.	Button head cap screw, Stainless, ¼"-20x ¾" 500-0441	
8.	Button head cap screw, Stainless, 10-32x %"	
9.	Hardware kit, muffler clamps and screws (N/S)	
	4 \	
		6'//
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	1811	
		.
	8	±▲WARNING: Cancer and Reproductive Harm

SIDEWINDER® 2:1 EXHAUST REPLACEMENT PARTS

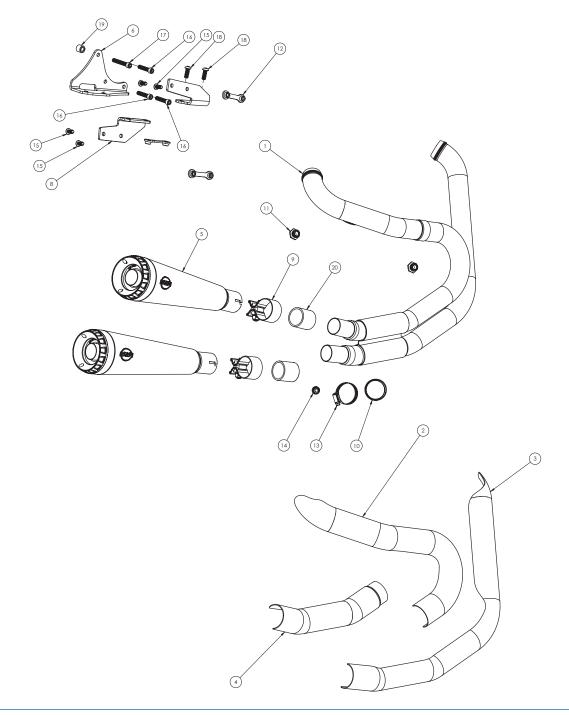
-		
1.		
	1995-'16 Touring Modelss 551-0705	
2.	2. Muffler, Street Legal	
	Chrome	
	Black	
3	3. Collector, heat shield	
٥.	Chrome	
	Black	
4.		
4.	4. Heat shield, florit, 2.1, Sidewinder , Chlorife, 1999- To toldring models Chrome	
_	Black	
5.		
	Chrome551-0712±	
	Black	
6.	6. Clamp, header mount, 2:1, chrome plate, mild steel, 11 gauge,	
	M8 2017 touring	
7.	7. Clamp, muffler, band style, 2.5"	
	9. Clamp, hose, worm drive, SAE #40	
	10. Clamp, hose, worm drive, SAE #24 (qty. 3)	
	11. Adapter, oxygen sensor, 12mm to 18mm, stainless steel . 550-0375	
	12. Gasket, exhaust, tapered, stainless steel,	
١Z.		
12	1984-up bt, 1986-up xl 65324-83B, 65324-83A	
13.	13. Bracket, header mount, 2:1, powdercoated, black,	
	2007-'16 touring models 551-0719	
14.	14. Bracket, header mount, 2:1, powdercoated, black,	
	1995-'06 touring	
15.	15. Bolt, Carriage, 3/8-16 x 1-1/4"	
16.	16. Nut, Flanged, Serrated, 3/8-16	
17.	17. Nut, HSFH, 5/16-24 unf-2b x .283", Zinc, steel 7593 50-5025-S	
	18. Washer, spacer, floor board	
	19. Spacer, floor board, powdercoated, black	
	20. Screw, shc, 3/8-16 x 1-3/4", zinc, steel	
	21. Screw, shc, 3/8-16 x 2-3/4", zinc, steel	
	22 Committed 5/16 10 : 1/2//	
	22. Screw, nn, ng, serrated, 57 10-18 x 1/2	
		8
24.	24. Endcap	
	13,	
	$14, \qquad \begin{array}{ c c c c c c c c c c c c c c c c c c c$	
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**WARNING: Cancer and Reproductive Harm —

GRAND NATIONAL® 2:2 EXHAUST REPLACEMENT PARTS

1. 2.	Pipe, Header, 2 Into 2, Weldment, 2006-'17 Dyna® 5 Shield, Rear, Upper, 2 Into 2, Outside Process, Black,	51-0496
۷.	2006–'17 Dyna®	51-0506
3.	Shield, Front, 2 Into 2, Outside Process, Black, 2006-'17 Dyna®	51-0500
4.	Shield, Rear, Lower, 2 Into 2, Outside Process, Black, 2006–'17 Dyna®	51-0512
5.	Muffler, Assembly, Grand National, 2 Into 2, Cone Body, Black.	
6.	Bracket, Mounting, 2 Into 2, Black, 2006-'17 Dyna® 5	51-0482
7.	Bracket, Top, Mounting, Muffler, 2 Into 2, Powdercoated, Bla 2006–'17 Dyna®	ick,
8.	Bracket, Bottom, Mounting, Muffler, 2 Into 2, Powdercoated 2006–'17 Dyna®	l, Black,

	Clamp, Muffler, Band Style, 1.75"Diameter, 3/8–16 X 1.57"Bolt
10.	Gasket, Exhaust, Tapered, Stainless Steel, 1984-up bt, 1986-up xl65324-838, 65324-83A
11.	Adapter, Oxygen Sensor, 12mm To 18mm, Stainless Steel 550-0375
	Plate, Nut, 5/16-18 X 2", Zinc Clear
13.	Clamp, Hose, Worm Drive, SAE #20 551-0527
14.	Nut, hsfh, 5/16-24 Unf-2B X .283", Zinc, Steel 7593 50-5025-S
	Screw, bhc, 5/16-18 X 5/8", Zinc Plated 500-0763
16.	Screw, shcs, 5/16–18 X 1–1/2", Zinc Plated
17.	Screw, shcs, 5/16–18 X 2", Zinc Plated
18.	Screw, bhc, 5/16-18 X 7/8", Zinc Plated 500-0801
19.	Spacer, Powdercoated, .625"X.332"X.55", Black
20.	Gasket, Muffler, 3.25", 2018 M8 Softail®



POWER TUNE® DUAL HEADER REPLACEMENTS

POWER TUNE® DUAL HEADERS

Fitment	Finish	Part #
1995—'08 [†] big twins		550-0003A**
		550-0142A**
2009—'16 non-catalyst equipped touring and 2009—'18 Tri Glide ^{††} models	Chrome ±	550-0004B***
2009— 16 Holl-Catalyst equipped touring and 2009— 18 HT Glide" Hodels F		550-0143B***

[†]Has 18mm sensor fittings in the stock locations for 2007—'08 bikes. If not equipped with oxygen sensors, the ports can be used for tuning. Plugs are included if ports are not used.

POWER TUNE® DUAL HEADER REPLACEMENT PARTS

	AAAFII I AUF DAV	L IILAVLII	I IILI LAULINILII I	IAIIIU
1.	Pipe, header, power tune dual, weldment,	12	Clamp, hose (8 Reg)	551-0527
		551-0084 13	S. Shield, front, power tune dual,	
2.	Gasket, exhaust, tapered, stainless steel,		Chrome, 2009–2016 touring	551-0097 [±]
	1984-up bt, 1986-up xl (2 Req) 65324-83B, 65324-83A	106-5029	Black, 2009–2016 touring	
3. <i>P</i>	dapter, oxygen sensor, 12mm to 18mm,	14	Shield, rear, power tune dual,	
		550-0375	Chrome, 2009–2016 touring	551-0103
4.	Bolt, carriage, 3%"-16 x 1-1/4"	500-0553	Black, 2009–2016 touring	551-0104
5.	Nut, flanged, serrated, 3/8"-16	500-0554 15	i. Clamp, p-style, power tune dual, side,	
6.	Clamp, muffler, band style	551-0569	1995-2016 touring	
7.	Tube, crossover, power tune dual, formed,	16	5. Nut, HSFH,5/16-24	50-5025-S
		551-0080		
8.	Shield, left, power tune dual,		ot Shown	
	Chrome, 2009–2016 touring		ardware kit, power tune dual, header, 2009–2016 to	
	Black, 2009-2016 touring	551-0116 Ind	cludes items 2—6, 9—12, 15, and 16	551-0155
9.	Nut, HSFH, 5/6-18 UNC-2b x .283", Zinc, steel	50-5053-S		
10.	Clamp, p-style, crossover, power tune dual header,		Ø	
	2009–2016 touring			
11.	Bolt, carriage, 5/16"-18 x 3/4"	500-0555	_2	
	WARNING: Cancer and Reproductive Harm 8 9 11	5	15	
	10	12	13 —	

⁺⁺Requires the Trike Adaptor Kit part # 550-0799. See page 58

^{**}DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on EPA pollution controlled vehicles originally equipped with catalyst.

*Qualified manufacturer declared emissions replacement part on FL touring models listed below.

[&]quot;Qualified manufacturer deciared emissions replacement part on FL touring models listed below.

California Mandala: FL Tarvina Fuel Injected MV 1005, 2003, and 2007; CVO FL Tarvina MV 2000, 20

California Models: FL Touring Fuel Injected MY 1995-2003, and 2007; CVO FL Touring MY 2000-2003.

⁴⁹ State Models: FL Touring Carbureted MY 1995-2005; FL Touring Fuel Injected MY 1995-2005 and 2007-2008; CVO FL Touring MY 2000-2005

^{***}DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with a catalyst exhaust

^{*}Qualified Manufacturer Declared Emissions Compliant Part for 2009 Harley–Davidson 49–State Non-CVO FL Touring Models Only

^{*}WARNING: Cancer and Reproductive Harm

1999-2006 BIG TWINS

	Performance Kits
	4" Bore Sidewinder Big Bore Kit163
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	97" Big Bore Kits 166
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SIDEWINDER® 2:1 EXHAUST FOR 1995–'16 TOURING MODELS

- 2:1 styling for high-performance baggersIncreased power and torque
- Available in show chrome or ceramic black finish
- Machined aluminum endcap
- Includes adapters that allow use of wide band or stock 02 sensors
- Stainless steel header construction
- Some fitments 50-State Legal: CARB EO# K-010-3
- Removable dB reducer included
- · Made in the USA!



SIDEWINDER® 2:1 EXHAUST SYSTEM FOR 1995-'09 FL MODELS — 1995-'03, 2007 FL MODELS — CA EMISSIONS LEGAL¹¹

Finish	Part#
Chrome with Black Highlighted Machined Endcap	550-0776
Black with Black Highlighted Machined Endcap	550-0777

^{††}DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on EPA pollution controlled vehicles originally equipped with catalyst.

California Models:

Fuel Injected Non-CVO FL Touring Model Years: 1995-2003 and 2007

CVO FL Touring Model Years: 2000-2003

49 State Models:

Fuel Injected Non-CVO FL Touring Model Years: 1995-2005 and 2007-2009

CVO FL Touring Model Years: 2000-2005

▲ WARNING: Cancer and Reproductive Harm



^{*}Qualified manufacturer declared emissions replacement part on FL touring models listed below.

SLASH CUT SLIP-ON MUFFLERS FOR DYNA® MODELS

FITMENT

• 1995–2009 Dyna® models with staggered exhaust

FEATURES AND BENEFITS

- Up to 16% more horsepower and 10% more torque (when used with Stealth Air Cleaner Kit)
- Wake up your bike without breaking your budget
- Classic slash cut styling
- Show chrome or ceramic black finish
- SAE J2825 sound level compliant
- 50-state legal
- Removable dB reducer
- Made in USA!



Removable dB reducer



SLASH CUT MUFFLERS FOR 1995-2009 DYNA® MODELS WITH STAGGERED EXHAUST

Finish	Part#
Chrome	550-0718
Black	550-0720

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with mufflers containing catalyst.

*Qualified Manufacturer Declared Emissions Replacement Part on the Dyna Models Listed Below. California Models: MY 2006-2007, Except CVO models

49 State Models: MY 1995-2009, Except CVO models

▲ WARNING: Cancer and Reproductive Harm

GRAND NATIONAL® SLIP-ON MUFFLERS FOR DYNA® MODELS

FITMENT

• 1995—2009 Dyna® models with staggered exhaust

FEATURES AND BENEFITS

- Up to 17% more horsepower and 9% more torque (when used with Stealth Air Cleaner Kit)
- Race inspired Grand National endcaps
- Show chrome or ceramic black finish
- Deep performance rumble
- SAE J2825 sound level compliant
- 50-state legal
- Removable dB reducer
- Made in USA!



Removable dB reducer



GRAND NATIONAL® MUFFLERS FOR 1995-2009 DYNA® MODELS WITH STAGGERED EXHAUST

Finish	Part #
Chrome	550-0719
Black	550-0721

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with mufflers containing catalyst.

*Qualified Manufacturer Declared Emissions Replacement Part on the Dyna Models Listed Below.

California Models: MY 2006-2007, Except CVO models 49 State Models: MY 1995-2009, Except CVO models MARNING: Cancer and Reproductive Harm



Black 550-0692

DISCLAIMED: NOT LEGAL FOR SALE OF LISE IN CALLED DATA ON ANY POLITITION CONTROLLED MOTOR VEHICLES. Not local for sale or use on FDA pollution controlled materials or arisinally equipped with mufflers.

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with mufflers containing catalyst.

 $\hbox{*Qualified manufacturer declared emissions replacement part on the FL touring models listed below.}$

California FL Touring Models:

Fuel Injected MY 1995-2003, 2007, and 2009-2016

CVO MY 2000-2003, and 2009-2016

49 State FL touring Models:

Carbureted MY 1995-2005

Fuel Injected MY 1995-2005, 2007-2016

CVO MY 2000-2005, and 2009-2016

WARNING: Cancer and Reproductive Harm





 Finish
 Part #

 Chrome
 550-0689

 Black
 550-0690

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. Not legal for sale or use on EPA pollution controlled motorcycles originally equipped with mufflers containing catalyst.

*Qualified manufacturer declared emissions replacement part on the FL touring models listed below.

California FL Touring Models: Fuel Injected MY 1995-2003, 2007, and 2009-2016 CVO MY 2000-2003, and 2009-2016



49 State FL touring Models:
Carbureted MY 1995-2005
Fuel Injected MY 1995-2005. 2007-2016

Mk45 TOURING MUFFLERS

Mk45 4.5" Touring Mufflers are the result of decades of riding, racing and tuning. Combining both a stainless steel baffle and fiberglass packing, they create a deep rumble and improved horsepower and torque, all while adding a unique look with styled aluminum endcaps.

FITMENT

• 1995-2016 touring models

FEATURES AND BENEFITS

- 7 horsepower gain*
- Bold 4.5" design with stainless steel baffle and RaceTEX cartridge packing
- Available in show quality chrome or ceramic black finish
 Choose from S&S® Thruster or Tracer end cap designs in chrome or black
- SAE J2825 sound level compliant
- 50-state legal
- Removable dB reducer
- · Made in USA!

*Tested with S&S Power Tune® Dual Header and Stealth Air Cleaner Kit



Removable dB reducer

MK45 4.5" TOURING MUFFLERS W/ENDCAPS

Muffler Body Finish	Endcap Finish & Style	Part #
	Chrome Thruster	550-0620
Channe	Black Highlight Machined Thruster	550-0619
Chrome	Chrome Tracer	550-0624
	Black Highlight Machined Tracer	550-0623
	Chrome Thruster	550-0622
Cavanaia bladi	Black Highlight Machined Thruster	550-0621
Ceramic black	Chrome Tracer	550-0626
	Black Highlight Machined Tracer	550-0625

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES. NOT LEGAL FOR SALE OR USE ON EPA POLLUTION CONTROLLED MOTORCYCLES ORIGINALLY EQUIPPED WITH MUFFLERS CONTAINING CATALYST.

*QUALIFIED MANUFACTURER DECLARED EMISSIONS REPLACEMENT PART ON THE FL TOURING MODELS LISTED BELOW.

CALIFORNIA FL TOURING MODELS:

FUEL INJECTED MY 1995-2003, 2007, AND 2009-2016

CVO MY 2000-2003, AND 2009-2016

49 STATE FL TOURING MODELS:

CARBURETED MY 1995-2005

FUEL INJECTED MY 1995-2005, 2007-2016

CVO MY 2000-2005, AND 2009-2016

MARNING: Cancer and Reproductive Harm



550-0620±



550-0624±



550-0622±



550-0626±



550-0619±



550-0623±



550-0621



550-0625



&S Late Models 1999-up

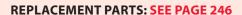
POWER TUNE® DUAL HEADERS

FITMENT

- Non-catalyst equipped Harley-Davidson® touring models‡
- 1995—'08' touring big twins

FEATURES AND BENEFITS

- Adds 8 horsepower over stock header pipes
- Independent dual look with hidden crossover
- Exclusive design moves the rear cylinder header away from the passenger to reduce radiated heat
- Full chrome or ceramic black heat shielding with 220° coverage
- Updated styling to give the bike a modern look
- Oxygen sensor bungs*
- Spherical inlet design for improved sealing and exhaust gasket durability
- Hardware included to mount crossover pipe
- Exhaust port gaskets included
- · Made in the U.S.A.







POWER TUNE® DUAL HEADERS

Fitment	Finish	Part #
1005 /00* him to disc	Chrome	550-0003A
1995–'08* big twins	Black	550-0142A

*Has 18mm sensor fittings in the stock locations for 2007—'08 bikes. If not equipped with oxygen sensors, the ports can be used for tuning. Plugs are included if ports are not used.

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on EPA pollution controlled vehicles originally equipped with catalyst.

*Qualified manufacturer declared emissions replacement part on FL touring models listed below. California Models:

FL Touring Fuel Injected MY 1995-2003, and 2007

CVO FL Touring MY 2000-2003

49 State Models:

FL Touring Carbureted MY 1995-2005

FL Touring Fuel Injected MY 1995-2005 and 2007-2008

CVO FL Touring MY 2000-2005

⚠WARNING: Cancer and Reproductive Harm

SPECIAL NOTES

It may be necessary to re-jet the carburetor or recalibrate the fuel injection system for best performance when a change is made in the exhaust system. Dyno results are from tests performed at the S&S® Research and Development facility in Viola, Wisconsin.

STEALTH TRIBUTE AIR CLEANER KITS CLASSIC DESIGN—STEALTH FITMENT

Conceived by S&S founder and brought to market by his son George B. Smith, the Classic Two Throat carb and matched air cleaner served as a performance milestone in the v-twin space for over a decade. Inspired by the unique style of our Two Throat intake, S&S has created the new "Tribute" air cleaner cover and wrapped it around our proven Stealth filter system creating a classic look combined with modern performance.



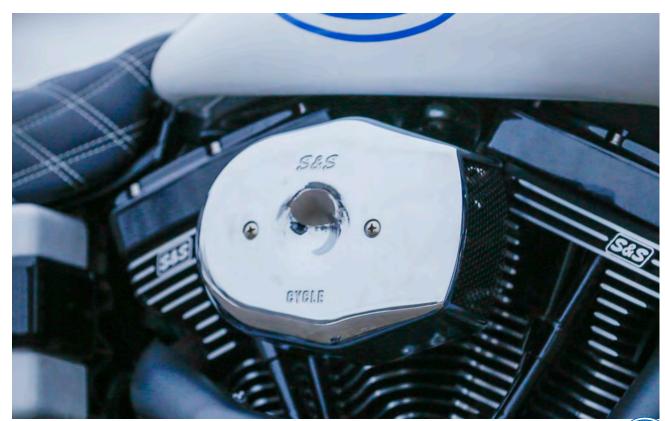
STEALTH TRIBUTE COVER AIR CLEANER KITS

KIT INCLUDES STEALTH AIR CLEANER 170-0300B WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Fitment	Finish	Part #
2001 (17 his train (7 hould be 145 m)	Chrome [±]	170-0596
2001–'17 big twin (except Throttle by Wire)	Gloss Black	170-0599

** WARNING: Cancer and Reproductive Harm







FITMENT

• 1999–2006 big twins

FEATURES AND BENEFITS

- Air directional stinger cone in the filter
 Use with any of several S&S designed covers. See page 158
- High flow (1" taller) filter kit available



STEALTH TEARDROP AIR CLEANER KITS

KIT INCLUDES STEALTH AIR CLEANER 170-0300B WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Fitment	Fuel System	Finish	Part #
2001–′17 big twin	Stock EFI, Delphi® EFI	Chrome	170-0528±
(except 2017 touring models & Throttle by Wire) Includes Stealth AC Kit 170-0300B		Gloss Black	170-0529

**WARNING: Cancer and Reproductive Harm



CARBON FIBER TEARDROP KIT

Fitment	Part #
2001–'17 bt (except Throttle by Wire)	170-0499

Kit includes Stealth Air Cleaner 170-0300B which is exempt from emissions tampering regulations under CARB EO# D-355-27



MINI TEARDROP AIR CLEANER KITS

KIT INCLUDES STEALTH AIR CLEANER 170-0300B WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Fitment	Fuel System	Finish	Part #
2001–'17 big twin (except 2017 touring models & Throttle By Wire)	Stock EFI,	Chrome	170-0441 [±]
Includes Stealth AC KIT 170-0300B	Delphi® EFI	Gloss Black	170-0442

±▲WARNING: Cancer and Reproductive Harm



AIR 1 COVER AIR CLEANER KIT

KIT INCLUDES STEALTH AIR CLEANER 170-0300B WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Application	Fuel System	Part #
2001–'17 big twin (except 2017 touring models & Throttle By Wire) Includes Stealth AC Kit 170-0300B	Stock EFI Delphi®	170-0478



TRI-SPOKE COVER AIR CLEANER KIT

KIT INCLUDES STEALTH AIR CLEANER 170-0300B WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Application	Fuel System	Part #
2001–'17 big twin (except 2017 touring models & Throttle By Wire) Includes Stealth AC Kit 170–0300B	Stock EFI Delphi®	170-0476



TORKER COVER AIR CLEANER KIT

KIT INCLUDES STEALTH AIR CLEANER 170-0300B WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Application	Fuel System	Part#
2001–'17 big twin (except 2017 touring models & Throttle By Wire) Includes Stealth AC Kit 170-0300B	Stock EFI Delphi®	170-0477

CON'T STEALTH AIR CLEANER KITS



AIRSTREAM COVER CLEANER KIT

KIT INCLUDES STEALTH AIR CLEANER 170-0300B WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Application	Fuel System	Finish	Part#
2001—'17 big twin (except 2017 touring models & Throttle By Wire)	Ct. d. FFI D. l., b.;@	Chrome	170-0479±
Includes Stealth AC Kit 170-0300B	Stock EFI Delphi®	Gloss Black	170-0480

± ★ WARNING: Cancer and Reproductive Harm

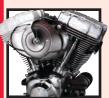


MUSCLE COVER AIR CLEANER KIT

KIT INCLUDES STEALTH AIR CLEANER 170-0300B WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Application	Fuel System	Finish	Part #
2001—'17 big twin (except 2017 touring models & Throttle By Wire)	Stock EFI Delphi®	Chrome	170-0481 [±]
Includes Stealth AC Kit 170-0300B		Gloss Black	170-0482

*WARNING: Cancer and Reproductive Harm



STEALTH AIR CLEANER KITS*—NO COVER

KIT INCLUDES STEALTH AIR CLEANER 170-0300B WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Application	Fuel System	Part#
2001–'17 big twin (except 2017 touring models, Throttle By Wire, & CVO® Models)	Stock EFI Delphi®	170-0300B

Choose an S&S Cover (see page 158)

NOTES

Fuel injection tuning is not required with this product but is highly recommended for best results.

REPLACEMENT PARTS: SEE PAGE 227



AIRSTREAM COVER IN CHROME PLUS STEALTH AIR CLEANER KIT

Application	Fuel System	Part #
1999—'06 big twins (except '99 Softail® carb & Throttle by Wire)	Stock CV/EFI Delphi®	170-0056
1999–'06 big twins	S&S Super E & G Carbs	170-0063

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CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT

▲ WARNING: Cancer and Reproductive Harm



MUSCLE COVER IN CHROME PLUS STEALTH AIR CLEANER KIT

Applicationt	Fuel System	Part #
1999-'06 big twins (except '99 Softail® carb & Throttle by Wire)	Stock CV/EFI Delphi®	170-0106
1999-'06 big twins	S&S Super E & G Carbs	170-0112

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CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT

WARNING: Cancer and Reproductive Harm

STEALTH AIR CLEANER KITS* — NO COVER



Application	Fuel System	Part#
1999—'06 big twins (except '99 Softail® carb & Throttle by Wire)	Stock CV/EFI Delphi®	170-0060
1999–'06 big twins	S&S Super E & G Carbs	170-0058

*These kits do not contain covers —Choose an S&S Cover (see page 158)

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STEALTH AIR CLEANER KITS FOR S&S ENGINES

STEALTH AIR CLEANER KITS FOR S&S ENGINES

Fitment	Fuel System	Part #
2003—'17 HD® Models (except '17 touring models)	S&S 66mm Throttle Hog	170-0165
2003—'17 HD® Models (except '17 touring models)	S&S 58mm Throttle Hog	170-0164
1995–1999 S&S Super Stock Engines	S&S Single Bore VFI 52mm Throttle Bodies	170-0287
1995–1999 EFI big twins	S&S Single Bore VFI 58mm Throttle Bodies	170-0283
1999–2017 EFI big twins	S&S Single Bore VFI 58mm Throttle Bodies	170-0284
T124 1999—'06 bt (except '06 Dyna®) (Engines produced after 2013)	S&S E or G Carburetor	170-0058
T124 1999—'06 bt (except '06 Dyna®) (Engines produced after 2013)	Stock CV/EFI Delphi®	170-0060
T111 1999—'06 bt (except '06 Dyna®) (Engines produced after 2013)	S&S E or G Carburetor	170-0058
T111 1999—'06 bt (except '06 Dyna®) (Engines produced after 2013)	Stock CV/EFI Delphi®	170-0060

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STEALTH AIR CLEANER KIT COVERS (ONLY)

NEW STEALTH TRIBUTE COVERS SEE PAGE **155**













Carbon Fiber

Mini in Chrome

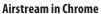
Mini in Gloss Black

Tri-Spoke

To

Α























STEALTH COVERS

Teardrop		Teardrop—Sla	ardrop—Slasher		Mini		Tri-Spoke	Torker	Air 1
Chrome	Gloss Black	Chrome	Gloss Black	Black	Chrome	Gloss Black	Gloss Black w/Highlights	Gloss Black w/Highlights	Gloss Black w/Highlights
170-0530	170-0531	170-0532	170-0533	170-0501	170-0367	170-0366	170-0210	170-0206	170-0214

Airstream		Muscle		Displacement			
Chrome	Gloss Black	Chrome	Gloss Black with Highlighted Logo	111	124	143	
170-0118	170-0396	170-0121	170-0463	170-0319	170-0321	170-0323	

SINGLE BORE TUNED INDUCTION SYSTEM

FITMENT

- 1999—'06 stock CV carbureted big twins (except 1999—'06 FXDWG/FXD35)
- 2001–'06 Delphi® EFI big twins

FEATURES AND BENEFITS

- Bolt-on performance—over twice the filtering area over stock intake system
- Increases horsepower and torque across the rpm range using air column inertia and carefully timed gas dynamic pressure waves
- Smooth intake tract of carefully selected tunted lengths increases performance
- High flow washable and reusable cotton media provides performance, protection, and economy
- Available in wrinkle black, chrome, or natural



CARB EX PRICE PRIC

SINGLE BORE TUNED INDUCTION SYSTEM KITS

EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS

L	Fitment	Fuel System	Finish	Part#
	2001–'17 big twin (except 2017 touring models, Throttle By Wire, & CVO® Models)	Stock EFI Delphi®	Chrome/Red Filters	170-0308B

▲ WARNING: Cancer and Reproductive Harm

SINGLE BORE TUNED INDUCTION SYSTEM KITS*

Fitment	Fuel Delivery	Finish	Part#
1999–'06 big twin models	S&S Single Bore EFI	Chromo Dunnar and Dad Filtare	170-0085
(except 1999-'06 FXDWG/FXD35) and S&S engines w/stock head breathing	S&S Super E/G	Cilionie kuilliel and ked riiters	170-0085 170-0086 ome Runner and Red Filters 170-0087 ome Runner and Red Filters 170-0083 170-0084
1984–'06 Carbureted big twin models	Stock	Chrome Runner and Red Filters	170-0087
41/8" bore S&S T-Series	S&S Single Bore EFI	Chuama Dunnay and Dad Filtara	170-0083
(S&S bolt pattern w/vaccum breathing)	ries S&S Single Bore EFI Chrome Runner and Red Filters	170-0084	
CTO	Specify	Specify	106-5337

Use the Configure to Order (CTO) part number to order different finish and filter color.

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*WARNING: Cancer and Reproductive Harm



Single bore tuned induction will not fit on motorcycles equipped with fairing lower glove boxes.

Fuel injection tuning is not required with this product but is highly recommended for best results.



FEATURES AND BENEFITS

- Efficient and free flowing intake that can add two to five horsepower
- Uniquely designed backplate has air horn style radiused entryway to reduce turbulence
- Dimpled cover with directional air cone on inside creates smooth path for air
- Great addition to performance exhaust or cams

KIT CONTENTS

- Filter
- Backing plate and cover
- All mounting hardware
- Instructions





CLASSIC TEARDROP AIR CLEANER KITS FOR STOCK EFI

EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS

Fitment	Fuel System	Finish	Stock EFI, With 96 & 103 Engines
2001—'17 big twin (except 2017 touring models,	Stock EFI Delphi®	Chrome	170-0303B±
Throttle By Wire, & CVO® Models)	Stock Eri Deibili	Gloss Black	170-0304B

**WARNING: Cancer and Reproductive Harm

CLASSIC TEARDROP AIR CLEANER KITS

Fitment	Finish	Stock Carb	S&S® Super E/G	
S&S 41/8" Bore engines with vaccum breathing	Slasher/Chrome	_	17-0416±	
1002 106 carburated big tuing /0 2007 110 Cafa:18 /1/08 Madda	Chrome	17-0450±	17-0403±	
1993—'06 carbureted big twins (& 2007—'10 Softail® CVO® Models)	Gloss Black	170-0181A	_	

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*WARNING: Cancer and Reproductive Harm

CLASSIC TEARDROP AIR CLEANER KITS FOR S&S SINGLE BORE EFI THROTTLE BODIES±

Fitment	Style/Finish	52mm	58mm
Stock Harley-Davidson® heads or S&S Heads for stock or 4" bore head breathing	Teardrop/Chrome	17-0498	106-4669
S&S Heads for 41/8" bore vaccum breathing	Teardrop/Chrome	-	106-4668

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*WARNING: Cancer and Reproductive Harm

17-0071



CLASSIC TEARDROP AIR CLEANER COVERS

Style	Finish	Part #
Classis Tasadas a	Chrome	17-0378 [±]
Classic Teardrop	Gloss Black	170-0384A
	Chrome	17-0004 [±]
Slasher Teardrop	Gloss Black	170-0419
Nostalgic Teardrop	Polished	17-0071

*WARNING: Cancer and Reproductive Harm

REPLACEMENT PARTS STARTING ON PAGE 230

PRE-FILTERS

FITMENT

• S&S® Stealth Air Filters

FEATURES AND BENEFITS

- Water resistant
- Prevents large debris from prematurely clogging filter
- Washable Nylon
- Promotes longer filter life
- Reduces the risk of water entering air intake system

PRE-FILTERS

Application	Part #
Standard	170-0193
1" Tall	170-0197



HIGH FLOW AIR FILTER KITS

FITMENT

• S&S Classic Teardrop air cleaners for Super E & G carbs and S&S EFI throttle bodies

FEATURES AND BENEFITS

- Low restriction filter element comes pre-oiled for true plug and play installation
- 1" wider filtration area provides up to 37% more airflow over standard S&S filters
- Resulting band of exposed filter material imparts a high performance look

KIT CONTENTS

- · Wide filter
- Filter spacers

HIGH FLOW AIR FILTERS

Description	Fitment	Part #
High Flow Air Filter Kit	Classic Teardrop	17-0045
(includes spacers)	Stealth	170-0127 *
1" Tallow Filtow Only	Classic Teardrop	106-4724
1" Taller Filter Only	Stealth	170-0154
Spacer	Classic Teardrop & Stealth, 1" Taller	50-5009-S

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STANDARD REPLACEMENT FILTERS

STANDARD REPLACEMENT AIR FILTERS

Description	Fitment	Part#		
Chandral Filter Oak	Classic Teardrop	106-4722		
Standard Filter Only	Stealth	170-0126		

ERFORMANCE KIT OVERVIEW



4" BORE BOLT-IN SIDEWINDER® BIG BORE KIT

S&S 4" big bore cylinder and piston kits boost 88 and 96/103" Harley-Davidson® big twin engines to 100" and 110" respectively. These bolt-in kits don't require any machining, rebalancing or engine removal, and include just about everything you'll need to complete the installation. The biggest cylinder bore that can be installed in a stock crankcase without machining! SEE PAGE 163



124" HOT SET UP KIT

Move to the ultimate in performance packages! Increase your bore to 41/8" and stroke to 41/8" to realize a massive 124 cubic inches of pure performance. This kit includes flywheel assembly, cylinders and pistons, S&S Easy Start 640 lift chain drive camshafts, hydraulic lifters, pushrods, covers, valve springs and rocker arms. Comes complete with all gaskets and instructions. CTO options give you even more choices. Crankcases require boring to accept the larger cylinder spigots, SEE PAGE 164



106" STROKER KIT

Stroke it! This performance package gives big displacement. The kit's flywheel assembly increases your stroke from 4 3/8" to a hefty 4 1/2" and bumps your 88" to 106". Oversize your stock cylinder bore from 3 34" to 3 %". No crankcase machining needed. Maintains stock engine height for easy installation. SEE PAGE 165



98 & 97" BIG BORE KIT

Up the displacement of your Twin Cam® 88 to a whopping 98". This bolt-on cylinder kit adds significant displacement without any machining required to your engine. Stroke stays the same at 4.00". Bore increases from 3.750 to 3.937". This kit contains pistons, cylinders and all related parts, gaskets and instructions. SEE PAGE 166



95" HOT SET UP KIT

Looking to go further? Consider the Hot Set Up Kits. These kits will put some stride in your glide. Pushrods, covers and hydraulic lifters are all included. Select from a variety of cylinder heads to achieve the compression ratio you desire or keep your stock heads. Kits include S&S Easy Start 570 or 585 chain drive camshafts. SEE PAGE 167

PERFORMANCE KIT SPECIFICATIONS FOR HARLEY-DAVIDSON® TWIN CAM 88®													
KIT DESCRIPTION						COMPRE	SSION RAT	0				HORSEPOWER	TORQUE
	BORE	STROKE	Stock	70	00	01		CNC	Heads		CAMSHAFT	(CNC II-	1\
			Heads	79cc	89cc	91cc	83cc	85cc	87cc	90сс		(CNC Head	
124" Hot Set Up Kit	4 1/8"	4 5/8"	10.9:1	11.4:1*	11.1	10.8:1	11.6:1	11.4:1	11.2:1	10.9:1	640	127	130
106" Stroker Kit	3 %"	4 ½"	10.1:1	10.7:1	9.7:1	9.6:1	10.3:1	10.1:1	9.9:1	9.7:1	585	109	115
98" Big Bore Kit	3.937"	4"	10.4:1	11.1:1	9.9:1	9.7:1	10.6:1	10.3:1	10.1:1	9.8:1	_		
97" Big Bore Kit	3.927"	4"	9.7:1	10.3:1	9.3:1	9.1:1	9.8:1	9.6:1	9.5:1	9.2:1	_	103	107
95" Hot Set Up Kit	3 %"	4"	9.7:1	10.3:1	9.4:1	9.2:1	9.9:1	9.7:1	9.5:1	9.3:1	570	103	107
*Not Recommended	*Not Recommended												

PERFORMANCE K	PERFORMANCE KIT CONTENTS, OPTIONS AND REQUIREMENTS FOR HARLEY-DAVIDSON® TWIN CAM 88®												
	PACKAGE CONTENTS											CT0	REJETTING OR
KIT DESCRIPTION	Flywheels	Cylinders	Pistons w/rings	Rocker Arms	Pushrods w/covers	Lifters	Cams	Valve Springs	Heads w/ springs	Gaskets	MACHINING REQUIRED	OPTIONS	CALIBRATION CHANGE
124" Hot Set Up Kit	•	•	•	•	•	•	•		0	•	84	900	•
106" Stroker Kit	•		0								2		•
98" Big Bore Kit		•	•							•			•
97" Big Bore Kit		•	•							•			•
95" Hot Set Up Kit		0	00		•	•	•		0	•	2	900	•
o = Optional s = Crankcase				nkcase m	achining for	center st	ud	6 = (N	C heads				

- \bullet = Order separately

Bore & hone cylinders

- Crankcase machining for cylinder spigots
- **6** = Camshaft selection
- Combustion chamber size selection
- Cylinder & piston set available

^{*}The CTO option column lists only the major items offered. Virtually any option can be selected from our product offerings through the Configure To Order (CTO) program.

4" BORE BOLT-IN SIDEWINDER® BIG BORE KITS



S&S 4" big bore cylinder and piston kits boost 88" Harley-Davidson® big twin engines to 100". These bolt-in kits don't require any machining, rebalancing or engine removal, and include just about everything you'll need to complete the installation. The biggest cylinder bore that can be installed in a stock crankcase without machining!

FEATURES & BENEFITS

- Bolts in. No machining, balancing, or splitting the crankcases
- 88 engines end up at 100"
- Complete kits include cylinders, pistons, gaskets, and instructions
- Choose from wrinkle black or silver powder coat cylinders matches stock finish

FITMENT

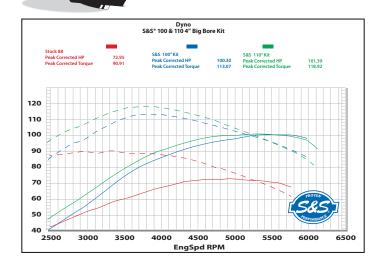
• 1999–2006 big twins

SPECS FOR SE	SPECS FOR S&S 4" BORE BOLT-IN CYLINDER & PISTON KITS									
						Compression Ratio				
Year	Stroke	Bore	Cylinder Length	Piston Type	Dome Volume	83cc CNC	85cc Stock	89cc S&S		
						Heads	Heads	Heads		
1999–2006	4"	4.00"	4.937"	Forged	8.75 pop up	10.8:1	10.5:1	10.1:1		

BORE BOLT-IN SIDEWINDER® BIG BORE KITS

inder	4" BORE BOLT-IN	N SIDEWINDER® BIG BO	1	Finish	Part #
	Displacement	Year	Stroke	FINISH	Part #
	100	1999–2006 big twin	4"	Silver	910-0642
	100	1999–2006 big twin	44	Wrinkle Black	910-0646

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These dyno results from our DynoJet® 250i chassis dynamometer clearly show the performance increases available with the S&S bolt-in 4 inch bore kits. The lowest (red) set of curves represents a stock 88 cid engine in a 2004 Harley-Davidson® FLHR Road King®. The next curves above the stock baseline (blue) shows the performance of the S&S 100" bolt-in big bore kit. The highest set of curves show the results from an S&S 110" big bore kit installed in a 96 cid engine. The engines with the S&S 100" and 110" kits were also set up with S&S 585 cams, Power Tune® headers, Mk45 muffler, and the stock EFI throttle body with an S&S Stealth air cleaner.

Not for use with S&S 79cc Cylinder Heads



124" HOT SET UP KIT®

FITMENT

· All big twin models





FEATURES AND BENEFITS

- Huge displacement increase means huge power increase
- Stock crankcases, cylinder heads, oil pump, and cam cover can be reused, saving hundreds of dollars
- Original engine serial numbers are retained
- Gear drive S&S 640 Easy Start Cams included!
- Wrinkle black powder coat finish heads match factory finish, giving bike a "sleeper" advantage
- .045" MLS (multi-lavered steel) head gaskets
- Adds .096" to engine height
- Kits with S&S heads use stock length manifolds (S&S size 410)

OPTIONS

• Silver finish available through CTO

S&S® 124" HOT SET UP KIT® SPECIFICATIONS								
Voor	Stroke	Displacement	Dovo	Cylinder	PISTON TYPE/COMPRESSION RATIO			
Year	Stroke	Displacement	Bore	Length	91cc S&S Heads	89cc S&S Heads	85cc Stock Heads	
1999–'06	1999–'06 4 124" 4 1/8" 5.013" Flat top forged/10.8:1 Flat top forged/11:1 Forged, 10.9cc dish/10.4:1							
Cylinder w/piston kits	include fitted pist	ons and cylinders that re	quire no bori	ng or honing.				



124" HOT SET UP KITS® FOR HARLEY-DAVIDSON® TWIN CAM 88®/88B™ ENGINES

(Kits include S&S® Super Stock® 91cc Cylinder Heads) (10.8:1 Compression)

Model or Engine Type	Finish	Part #
1999–2006 Twin Cam 88 touring and Dyna® (except 2006 Dyna® models)*	Wrinkle Black	900-0564
2000–2006 Twin Cam 88B Softail® w/Balancer	Wrinkle Black	900-0565
Other Finishes and Combinations Available Here	Specify	106-5752

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*For 2006 Dyna® 124" Kits, see Section 2.



Requires recalibration.

S&S Easy Start Cams save you money—no need to buy compression releases or S&S rocker covers. Note when using 1999—'06 chain drive cams: For lifts over .510", S&S strongly recommends that the stock chain drive be upgraded to the S&S gear drive or S&S TC3 oil pump and cam plate. This kit updates the problematic spring loaded chain tensioners to more reliable hydraulic tensioners and also upgrades the oil pump.

Main Bearing Note: S&S flywheel assemblies included in a 124" S&S Hot Set Up Kit® for 1999—'15 big twin engines are designed for use with Timken® sprocket shaft bearings. They will fit directly in stock 1999—'02 Harley-Davidson® crankcases and in all S&S crankcases for 1999—'15 big twin engines, with no modifications. However, stock 2003 and later engines use a roller type bearing for the sprocket shaft, and will require modification.

Due to the amount of power these engines produce with an S&S Hot Set Up Kit, S&S strongly recommends retrofitting 2003—'15 model crankcases to accept a Timken sprocket shaft bearing. A Timken conversion sleeve such as Screamin' Eagle® #34822-08 or Jim's® #956 may be used. A charging system spacer for 1999—'02 model year is also required.

This kit will require that the case be bored to accept the larger cylinders.

If you choose not to convert your crankcases to a Timken sprocket shaft bearing, S&S flywheels may be used in 2003 and later engines with the installation of the Harley-Davidson® bearing kit #24004-03B. This bearing kit adapts the S&S sprocket shaft to be compatible with stock roller type bearings. Verify that the bearing kit contains the 24604-00D or 24607-07 sprocket shaft bearing. Do not use a 24604-00, 24604-00B or 24604-00C bearing. Please be advised that if this type of bearing is used, sprocket shaft bearing failure WILL NOT be covered under warranty.

Kits with S&S heads are machined special to compensate for engine height change to accommodate a stock length manifold. When using a kit with stock cylinder heads, S&S recommends using the appropriate length manifold. For a 124" with stock OEM cylinder heads, the standard manifold length is 417.

Center case bolt between cylinders will use waisted bolt kit 900-0807

106" STROKER KITS FOR USE WITH STOCK CYLINDERS

FITMENT

• 1999-'06 big twins

FEATURES AND BENEFITS

- Installation of the kit does not require any special machining, other than fitting the pistons
- S&S stroker pistons, which are sold separately, are available in all standard oversizes
- Stock 88" cylinders can be bored from 3¾" bore to 3¾" to accommodate the S&S pistons, or a pre-fit S&S cylinder and piston kit may be installed
- Engines with factory 95" kits require piston fitting only—stock or S&S cylinder heads can be used
- Fuel injected engines will require recalibration of the fuel injection system—the S&S VFI modules and closed loop sensor kits are highly recommended
- Piston jets (p/n 31–2026) included
- · Maintains stock engine height

S&S® 106" STOCK BORE STROKER KITS FOR HARLEY-DAVIDSON® TWIN CAM 88® AND TWIN CAM 888™ ENGINES SPECIFICATION CHART

Displacement	Stroke	Bore	Compression Ratio*	Piston Type	Piston Deck Height	Cylinder Length
106"	4½"	3%"	10.1:1	Flat Top	1.020"	4.937"

*Compression ratio with stock heads. Compression ratio with S&S 89cc heads 9.8:1. For additional compression use .030" MLS head gaskets- part #900-0605 Includes S&S piston oiling jets

106" STROKER KITS FOR HARLEY-DAVIDSON® TWIN CAM 88® ENGINES WITH STOCK CYLINDERS

Engine Displacement	Stroke	Sprocket Bearing	1999–2006 HD® bi	1999–2006 HD® big twin models (except 2006 Dyna® models)		
Engine Displacement	Stroke	Race	TC 88®	ТС 88В™		
COC 10.6 Ct 41/11	4 1/2"	Yes	320-0459	320-0453	320-0449	
S&S 106 Stroker	4 72	No	320-0460	320-0454	320-0450	
Special Order	Specify	Specify	329-0002	329-0002	329-0002	

Note - All S&S flywheel assemblies for 1999-'06 engines have connecting rods with 7.667" length and full width straight wristpin ends.



THESE KITS REQUIRE SPECIAL S&S PISTONS: Order the required 92–1210 Series pistons. See chart.

92-1210 SERIES PISTONS FOR S&S® 106" STROKER KIT

CYLINDER & PISTON KIT*

320-0460

02-1210	02-121/	02-1211	02-1212	010 0100	010 0202	
Standard	+.005"	+.010"	+.020"	Silver	Black	

Piston Deck Height 1.020" *Cylinder w/ piston kits include fitted pistons and cylinders that require no boring or honing.





98" BIG BORE KITS

FITMENT

• 1999–2006 big twin

FEATURES AND BENEFITS

- 3.937" bore
- Cylinder and piston kits make going to larger bore sizes easy—no machining required
- Stock engine height is maintained
- 11 fin cylinder design closely resembles OEM shape and come prefinished—ready to install
- Increased fin area for better heat dissipation
- Centrifugal cast, gray iron liner features 40,000 psi tensile strength—superior wear and performance
- CP Pistons are recognized as industry leaders, and provide exceptional wear, performance and noise characteristics

KIT CONTENTS

- S&S cylinders with gaskets
- Piston set with rings, wristpins and wristpin clips

S&S® 98" BIG BORE KIT SPECIFICATION CHART									
D: 1	6. 1	_	Cylinder	Forged	COMPRESSION RATIO (with provided .045" head gasket)				
Displacement	Stroke	Bore	Length	Piston Type	83cc CNC Ported Stock Heads	85cc Stock Heads	89cc S&S Heads		
98" 4" 3.937" 4.937" 10cc Dome 10.6:1 10.4:1 9.9:1									
Cylinder w/ piston kits	include pistons	and cylinders th	at require no bori	ng or honing.					

910-0481

98" BIG BORE KITS

Cylinder Finish	Part #
Silver powder coat	910-0482
Wrinkle Black powder coat	910-0481

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NOTES

Not for use with S&S 79cc Cylinder Heads

97" BIG BORE KITS

FITMENT

• 1999–'06 big twins

FEATURES AND BENEFITS

- No case machining required
- Bolt-on 9 to 10 cubic inches—cylinders do not require crankcase machining to install
- Piston weight for 97" kits are the same as stock, requiring no flywheel rebalancing
- Forged coated pistons are compatible with stock or S&S Super Stock® 79cc & 89cc heads
- Valve pocket recessed in S&S pistons are enlarged for oversize valves and higher lift cams
- Maintains stock engine height
- 11 fins and full fin pattern on cam side closely resembles OEM shape

OPTIONS

• Oversize pistons available — see page 178

KIT CONTENTS

- S&S cylinders with gaskets
- Piston set with rings

S&S® 97" BIG E	S&S® 97" BIG BORE KITS SPECIFICATION CHART									
			Cylinder	Formed	Compression Ratio					
Displacement	Stroke	Bore	Length	Forged Piston Type	79cc S&S Heads	83cc CNC Ported Stock Heads	85cc Stock Heads	89cc S&S Heads		
97" 4" 3.927" 4.937" 3cc Dome 10.3:1 9.9:1 9.7:1 9.3:1										
Cylinder w/ piston kits	Cylinder w/ piston kits include fitted pistons and cylinders that require no boring or honing.									



910-0205

97" BIG BORE KITS

Cylinder Finish	Part #
Silver powder coat	910-0201
Wrinkle Black powder coat	910-0205

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S&S® highly recommends installing a performance cam for easier starting and better engine performance.

S&S high flow cylinder heads will provide further horsepower gains.

For an additional .2 bump in compression, order .030" thick head gaskets #900-0605 (2 pack). Remember to check your clearances.

These kits require tuning.

95" HOT SET UP KITS

FITMENT

• 1999–'06 big twins

FEATURES AND BENEFITS

- .045" MLS head gaskets standard
- Up to a 40 HP increase
- True bolt on kit, no machining required
- Maintains stock engine height
- Kits include S&S 570 or 585 Easy Start chain drive cams—depending on resultant compression ratio
- S&S pushrods are made of high strength chrome-moly tubing
- Valve pocket recesses in S&S pistons are enlarged for oversize valves and high lift cams

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School School	***	3-1118		11.00	3
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mpression ratio					\
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S&S® 95" HOT !	SET UP KIT [®]	SPECIFIC	ATIONS			~~~					
Displacement	c. I	5. 1			Compression Ratio						
	Stock Stroke Bore	Bore	Cylinder Length	Forged Piston Type	79cc S&S Heads	83cc CNC Ported Stock Heads	85cc Stock Heads	89cc S&S Heads			
95"	4"	3%"	4.937"	5.3cc pop-up dome	10.4:1	9.9:1	9.7:1	9.4:1			
Cylinder w/ piston kits include fitted pistons and cylinders that require no boring or honing.											

95" SUPER STOCK® HOT SET UP KITS® FOR 88" ENGINES

Includes S&S 37%" bore cylinders and pistons, 585 gear drive cams and 79cc heads

Application	Wrinkle Black
1999–'06 (except 2006 Dyna® Models*)	106-0214 [±]

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± ★ WARNING: Cancer and Reproductive Harm



Fuel injected engines will require recalibration of the fuel injection system. The S&S VFI modules and closed loop sensor kits are highly recommended. Stock cylinders must either be bored to 37%" or replaced with S&S® 37%" bore cylinders.

Stock cylinders must either be bored to 3/%" or replaced with 5&5° 3/%" bore cylinders.

S&S recommends either CNC porting stock cylinder heads or purchasing Super Stock® heads to maximize the effect of higher lift cams. Stock cylinder heads will produce significantly less power. S&S can CNC port your heads, for an economical increase in power.

For 95" kits ordered without cylinders, pistons must be measured and cylinders bored/honed accordingly. Recommended piston fitment:

Close: 0.0020" - 0.0025" Loose: 0.0032" - 0.0045"

92-1200 series pistons have a 1.270" deck height.

.030" MLS head gaskets optional: Part #900-0606

S&S Easy Start Cams can save you money—no need to buy compression releases or S&S rocker covers. Note when using 1999–'06 chain drive cams: For lifts over .510", S&S strongly recommends that the stock chain drive be upgraded to the S&S gear drive or S&S TC3 oil pump and cam plate. This kit updates the problematic spring loaded chain tensioners to more reliable hydraulic tensioners and also upgrades the oil pump.

ENGINE OVERVIEW

S&S performance engines for 1999—'06 Harley-Davidson® big twins are available as long blocks which do not include fuel or ignition systems. Emissions compliant engines are complete. Engines are protected by super tough powder coat finishes. Available in silver and chrome, wrinkle black and chrome, Stone Grey and chrome, and Black Edition color schemes. Stone Grey matches the engine finish on CVO models. Black Edition is a wrinkle black engine with gloss black covers.

BLACK EDITION

S&S Cycle's new Black Edition engines combine classic wrinkle black with high gloss black powder coated covers for a subtle contrast and elegant look while still producing the power and reliability you've come to expect.

T143 (143 cid)

Now available for 1999-2006 chassis, the T143 long block engine is the largest (143 cid) S&S engine that will fit in a stock chassis. Available in silver, wrinkle black, or black edition finishes. Long blocks come without fuel or ignition systems (available separately) and an oil line installation kit is required. The 160 rear wheel horsepower also requires performance drive train upgrades. Not for the faint of heart!

T124 (124 cid)

The S&S T124 long block engine has been our daily rider hot rod since 2004. The combination of day in and day out reliability and brutal power make it the perfect choice. Available in silver, wrinkle black, or black edition finishes. Long blocks come without fuel or ignition systems (available separately) and an oil line installation kit is required. Our Super G carburetors and Throttle Hog EFI throttle bodies are highly recommended.

T111 (111 cid)

The S&S T111 long block is the ultimate sport touring engine. The shorter stroke provides a perfect combination of performance, engine life, quiet operation, and reduced vibration. Available in silver, wrinkle black, or black edition finishes. Long blocks come without fuel or ignition systems (available separately) and an oil line installation kit is required. Our Super E and G carburetors and Throttle Hog EFI throttle bodies are available to complete the package.



T143 ENGINES

The BIGGEST, BADDEST, BOLT-IN for a Stock Frame.

The S&S T143 Long Block engine is the largest S&S engine that will fit in a stock Harley-Davidson® chassis.

At double the HP of a stock motor the power of the T143 requires technical expertise for the installation and tuning along with an experienced rider. This is an ultra performance/race engine. Longevity, engine noise, vibration and throttle sensitivity have all been compromised to reach this level of performance while fitting in a stock chassis and as such is not suitable for every situation. It is the purchaser's responsibility to consider the suitability for their application. Engine noise and damage from abuse is not covered under warranty.

FITMENT

- 1999—2006 Harley-Davidson® touring models
- 1999—2005 Harley-Davidson® Dyna® models

FEATURES AND BENEFITS

- Fits in stock chassis no cutting or frame modifications
- S&S B3 cylinder heads CNC machined with 2 bolt exhaust flanges
- 3 Piece Flywheels
- TC3 Oil Pump and Cam Plate
- S&S 635 Easy Start Gear Drive Cams and S&S 1.725:1 rocker arms for .674" total lift.
- S&S Precision Tappets

SUGGESTED ACCESSORIES

• Stealth Air Cleaner Kit 143 Cover See page 158











T143 ENGINES WITHOUT FUEL AND IGNITION SYSTEMS

Chassis Style	Displacement	Bore	Stroke	Cam	Piston Type	Compression Ratio	Warranty Period	Finish	Part#
1999—'06 touring models 1999—'05 Dyna® models	. 143"	4.425"	4.625"	635	S&S Forged Flat Top	10.47:1	1 year	Wrinkle Black Silver	310-0737A 310-0738A
1999–2006 bt (except '06 Dyna®)		1.123				10.77.1	i yeai	Black Edition	310-0833A

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OIL LINE INSTALLATION KIT. See chart.

ΙΝ**ΚΤΔΙΙ ΔΤΙΩΝ PARTS**

	INSTALLATION	IAILIS		
	Description		Part #	
Oil Line Wit	Touring models	31-0425		
	Oil Line Kit	Dyna® models	31-0424	
	Super G Carbureto	r Kit w/air cleaner*	110-0120	
	Super D Carbureto	r Kit w/air cleaner*	110-0119	

*Air cleaner assemblies included with these carburetor kits do not include air cleaner covers. Stock 1999-later
air cleaner or any S&S Stealth air cleaner covers may be used.

Description	Part #	
70mm Induction Kit	2002—'05 Dyna® & touring models	170-0289
	2006–'07 touring models	170-0288
Exhaust Flange Starter Kit		550-0216

No fuel system available for 1999–2001 Magnetti Morelli EFI models

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T-SERIES LONG BLOCK ENGINES FOR 1999-'06 HARLEY-DAVIDSON® BIG TWINS EXCEPT **2006 DYNA® MODELS**

FEATURES

- No fuel system or ignition systems included Use what you already have
- Special Head machining Fits stock length intake manifolds (S&S manifold size 410)
 Stock style breathing system stock breather spacing and function is compatible with stock and most performance air cleaners
- Same quality components and performance as our complete T-Series engines
 - New S&S cylinders that look more like stock
 - Super Stock heads and crankcases
 - TC3 Oil Pump and Cam Plate
 - S&S Easy Start cams

OPTIONS

- T111 111 cubic inches, perfect sport-touring engine
- T124 124 cubic inches, hot-rod performance, 640 Easy Start Cams
- T124LC 124cubic inches with slightly lower compression, 585 Easy Start Cams



Not for 1999-2001 Magneti Marelli® EFI models

T124 ENGINES WITHOUT FUEL AND IGNITION SYSTEMS

Chassis Style	Displacement	Bore	Stroke	Cam	Piston Type	Compression Ratio	Warranty Period	Finish	Part#
1999–'06 bt (except '06 Dyna®))					6065			Silver	310-0281A
	124"	41/8"	45/8"	640	S&S Forged Flat Top	10.8:1	2 Years	Wrinkle Black	310-0282A
					riat iop			Black Edition	310-0831A
	124"	41/8"	45/8"	585	S&S Forged Dished	10.2:1	2 Years	Silver	310-0327A
								Wrinkle Black	310-0326A
								Black Edition	310-0832A
CTO				Specify		Specify	Varies	Specify	319-0010

T111 ENGINES WITHOUT FUEL AND IGNITION SYSTEMS

Chassis Style	Displacement	Bore	Stroke	Cam	Piston Type	Compression Ratio	Warranty Period	Finish	Part#
1999–'06 bt, (except '06 Dyna®)	111"	111" 41/8"		585	S&S Forged	9.8:1	2 Years	Silver	310-0279A
			41/8" 41/8"					Wrinkle Black	310-0770A
								Black Edition	310-0830A
CTO				Specify		Specify	Varies	Specify	319-0010



OIL LINE INSTALLATION KIT. See chart.



OIL LINE INSTALLATION KIT

Fitment	Part #
1999–'06 FLT Models	31-0425
1995–'05 Dyna® Models	31-0424

COMPLETE ENGINE REBUILD GASKET KITS

S&S Engine Family	Year Group	Bore Size	Part #
T-Series	1999–′06	41/8"	310-0335

ENGINE MANAGEMENT AND FUEL SYSTEMS

Cylinder heads on T-Series long block engines are 1999—'05 style. Owners of 2006 models will need to purchase a set of 1999—'05 style, offset intake flanges such as S&S #106-3516.

Cylinder heads on these engines are specially machined to compensate for the non-stock cylinder length. As a result, they are compatible with manifolds and throttle bodies with stock length intake runners. In addition, the breather vent bolt locations have been adjusted so they are in the stock location, so stock style air cleaner Backplates will bolt up to these engines.

2002-'06 EFI engines equipped with Delphi® fuel injection will require a performance tuner such as the Harley-Davidson® Race Tuner. The stock single bore throttle body can not supply adequate air for these large displacement engines. An S&S 58mm throttle body is highly recommended for maximum performance.

Carbureted engines will require a performance ignition module that allows adjustments to the advance curves. The stock ignition module is not adjustable, and use of the stock module will likely result in engine damage due to knock from incorrect ignition timing.

Performance carburetors are recommended to achieve maximum performance. S&S Super E carbs are ideal for T111 engines in touring applications, but a Super G will produce more top end horsepower. S&S Super G carbs are recommended for T111 engines in performance applications, and for T124 engines in all applications.

The Oil Line Installation Kits are not required for the updated S&S T-series engines. If the part number of the engine ends in "A," it DOES NOT need an installation kit.

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Sportster® & Buell®

CRANKCASES

FITMENT

• 1999—'06 Harley-Davidson® Twin Cam 88® A Engines (except 2006 Dyna®)

FEATURES AND BENEFITS

- Much stronger than stock crankcases in every aspect, extra large front motor mount for increased strength
- Large cam chest allows cam lift up to .675" without clearancing
- Timken® style sprocket shaft bearings withstand the most demanding applications
- Includes S&S crankcase breather reed valve to eliminate oil carry-over and oil scavenging problems
- Clearanced for strokes up to 5"
- All passages between the crankcase and the cam support plate are o-ring sealed
- Includes pinion and Timken® bearing

OPTIONS

• Available in stock bore, 4" bore, and 4%" bore versions



KIT CONTENTS

- S&S crankcase
- · S&S breather reed valve
- Bearings and hardware

CRANKCASE FOR 1999–'06 BIG TWIN ENGINES (EXCEPT 2006 DYNA® MODELS)

	C11122 (231221 1 2000 2 7 1 1 1 1 1 1 1 2 2 2 3)				
Crankcase Bore Size	Silver	Wrinkle Black	MSRP	Polished	
Stock Bore (Stock Stud Pattern)	106-4039A	31-0172A	\$2,095.95	_	
41/8" Bore (Stock Stud Pattern)	106-4057A	31-0181A	\$1,874.95	_	(
41/8" Bore (S&S Stud Pattern)	106-4043A	31-0178A	\$1,874.95	31-0179A	
4.425" Bore (S&S® T143)	_	310-0721A	\$1,816.95		

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OIL LINE INSTALLATION KIT

Fitment	Part#
1999–'06 FLT Models	31-0425
1999–'05 Dyna® Models	31-0424

REPLACEMENT PARTS: SEE PAGE 212

Oil line installation kit part #31-0424 is required for installation in 1999-'05 Dyna® models. This kit includes a special transmission top cover and oil lines. Oil line installation kit part #31-0425 is required for installation in 2000-'06 FLT models. Stock transmission top cover may be used. The Oil line installation kits are not required for the updated S&S T-series engines. If the part number of the engine ends in "A," it does not need an installation kij



CRANKCASE BREATHER REED VALVES

FITMENT

- Twin Cam 88®/96™ (except "B" engines)
- S&ST-Series engines

FEATURES AND BENEFITS

· Improved oil scavenging and reduced oil carryover





CRANKCASE BREATHER REED VALVES

Oil Pump Fitment	Year Application	Part #
For Engines with Stock or S&S TC3 Oil Pump	1999–′02	31-2070 🕬
	2003–′10	310-0742
	S&S special application crankcases*	310-0742
For Engines with S&S gear oil pump	2003–'10 stock crankcases & 1999–'06 S&S crankcases	310-0742

^{*}Spring adaptor required to accommodate the extra .375" case width of S&S Special Application big bore crankcases.

SPRING ADAPTER AND SPACER

Fitment	Part #
Spacer (for S&S SA crankcases)*	31-2103



^{*}Required to accommodate the extra .375" case width of S&S Special Application big bore crankcases.

REPLACEMENT PARTS: SEE PAGE 240

The crankcases breather valve for Twin Cam 88° engines was designed and developed for use with stock Harley-Davidson° or S&S gear oil pumps and tappets, and may not be compatible with some aftermarket components.

Not available for Twin Cam 88B™ or Twin Cam 96B™ engines with internal balancers.

Does not fit with Screamin' Eagle® oil pumps.

3 PIECE FLYWHEEL ASSEMBLIES

FITMENT

- 1999—'06 Harley-Davidson® big twins—Balanced and unbalanced models
- S&S T-Series Engine and Hot Set Up Kit® replacement flywheels

FEATURES AND BENEFITS

- Heat-treated 4140 material is harder and 114% stronger than stock
- Harder material, no thrust washers required—Where stock flywheels have thrust washers, S&S flywheels have steel gripping the crankpin
- Larger 1.671" diameter crankpin—increased contact area and tighter press fit for a stronger joint. No welding required!
- Integral mainshafts eliminates two potential points of weakness
- Consistent balance and precision machining—*Truer flywheels and less vibration*
- Reduced mainshaft deflection at high rpm—less vibration, reduced piston and rod side thrusting, prevents oil pump damage, fully compatible with gear drive cams
- Capable of higher rpm—More available power!



FIYWHEEL ASSEMBLIES

Funina		Sprocket	1999–2006 HD® big twin models (except 2006 Dyna® models)			2006 HD® Dyna® models	
Engine Displacement	Stroke	Bearing Race	Total Piston Weight	TC 88°	ТС 88В™	Total Piston Weight	Part #
88, 95, 97, 100 w/	4"	Yes*	1230	320-0402	320-0396	1230	320-0392
Stock or S&S® Pistons	4	No	1230	320-0403 🕬 320-0397		1230	320-0393
96, 103,CVO 103, 106 big bore, 110, 117 w/	43/8"	Yes*	1035	320-0360	320-0354	1035	320-0350
Stock or S&S® Pistons	478	No	1035	320-0361	320-0355	1035	320-0351
S&S® 106 Stroker**	4½"	No	1108	320-0460	320-0454	1108	320-0450
S&S® 111	41/8"	No	1035	320-0417	_	1035	320-0407
SE 120R (uses 7.575" length rods)	45/8"	No	1035	320-0525	320-0527	1035	320-0523
S&S® 124	45/8"	No	1035	320-0475	320-0469	1035	320-0464
S&S® T143	45/8"	No	1290	320-0552	_	_	_
Special Order	Spec- ifv	Specify	Specify	329-0002	329-0002	Specify	329-0002

Note:All S&S flywheel assemblies for 1999-'06 engines have connecting rods with 7.667" length and full width straight wristpin ends.

Engines with strokes over 4" may require S&S® piston oiling jets (p/n 31-2026) and piston to jet clearance notches in the piston skirt to avoid contact.

Main Bearing Note: Most S&S flywheel assemblies for 1999—'16 big twin engines are designed for use with Timken® sprocket shaft bearings. They will fit directly in stock 1999– 02 Harley-Davidson® crankcases and in all S&S crankcases for 1999–15 big twin engines, with no modifications. However, stock 2003 and later engines use a roller type bearing for the sprocket shaft. S&S does offer flywheel assemblies that are compatible with late roller style stock sprocket shaft bearings, but they are not recommended for very large, high performance engines.

S&S strongly recommends retrofitting 2003—'16 model crankcases to accept a Timken sprocket shaft bearing. A Timken conversion sleeve such as Screamin' Eagle® #34822-08 or Jim's® #956 may be used. A charging system spacer for 1999—'02 model year is also required.

If you choose not to convert your crankcases to a Timken sprocket shaft bearing, S&S flywheels may be used in 2003 and later engines by either purchasing the stock compatible flywheels or by installing Harley-Davidson® bearing kit #24004-03B when using S&S flywheels designed for Timken bearings. This bearing kit adapts the S&S sprocket shaft so it is compatible with stock roller type bearings. Verify that the bearing kit contains the 24604-00D or 24607-07 sprocket shaft bearing. Do not use a 24604-00, 24604-00A, 24604-00B or 24604-00C bearing. Please be advised that if this type of bearing is used, sprocket shaft bearing failure WILL NOT be covered under warranty.

TRYING TO IDENTIFY AN S&S® FLYWHEEL?

SEE FLYWHEEL I.D. CHART ON PAGE 346



^{*}Flywheel assemblies supplied with sprocket shaft bearing race installed are compatible with stock roller style sprocket shaft bearings. Assemblies with no race require a Timken® sprocket shaft bearing.

^{**4}½" stroke flywheels for 2006 Dyna® include 7.667" long connecting rods.

TC3 CAM PLATE

S&S cam support plates are just what the doctor ordered when repairing a damaged engine or installing new camshafts. CNC machined from forged aluminum for excellent strength and dimensional accuracy. S&S cam support plates are available to fit 1999—2006 and 2007—later Harley-Davidson® big twin engines. We don't want to encourage bad habits so plates for 1999—2006 are not compatible with stock spring-loaded chain tensioners, and require late style hydraulic tensioners and oil pump. We suggest the S&S TC3 oil pumps be installed with S&S TC3 Cam Plate.

FITMENT

• 1999–'06 big twins except 2006 Dvng® models*

FEATURES AND BENEFITS

- Precision CNC machined forged aluminum
- Adjustable oil pressure regulator adjust without removing plate from engine
- Passage plugs are removable for service
- Rebuildable bronze pinion shaft bushing in all models and bronze cam bushings in 2007—later style
- Made in the USA!



*Not compatible with stock spring-loaded chain tensioners or stock 1999—2006 oil pumps.

A 2007—later style oil pump is required for all applications. 2007—later style hydraulic tensioners are required for chain drive cams.

TC3 CAM PLATE

Fitment	Part #
1999–2006 bt (except 2006 Dyna® models)	310-0623

TC3 OIL PUMP

If motor oil is the lifeblood of an engine, then the oil pump is its heart. If your engine needs a transplant, the S&S TC3 Oil Pumps are a great solution for worn out or destroyed stock units. Common causes of stock pump failure are debris and excessive pinion shaft run out. The new S&S oil pumps are much less likely to be damaged by either. Oh, and by the way, the S&S TC3 Oil Pumps pump and scavenge way more oil than stock. While you've got that motor apart, it would be a good time to install a forged S&S TC3 Cam Plate.

FITMENT

- 1999—'06 Harley-Davidson® big twin engines*
- 2007—'16 Harley-Davidson big twin engines

FEATURES AND BENEFITS

- Consistent pressure and reliable scavenging
- Separate scavenge sections for flywheel cavity and cam chest *no interference*
- Screens and magnetic traps help protect the scavenge rotors from debris
- Special design allows S&S pumps to tolerate more pinion shaft run out without damage
- Made in the USA!



TC3 OIL PUMP

Fitment	Part #
1999–2006 bt (except 2006 Dyna® models)	310-0640

*S&S oil pumps for 1999—'06 are not compatible with S&S cam support plates for 1999—'06 engines. All S&S cam support plates are machined for 2007—later style oil pumps.

TC3 OIL PUMP & CAM PLATE KITS



TC3 OIL PHMP AND CAM PLATE KITS

ICO OILT OMIT AND CAMITEATE KITS	<u>'</u>
Fitment	Part #
1999–2006 bt (except 2006 Dyna® models)	310-0731

REPLACEMENT PARTS: SEE PAGE 122 & 123



DIE CAST GEARCOVERFITMENT 1999–'17 Twin Cam 88®, 96™ and 103™ (except '17 touring)



DIE CAST GEARCOVER

Finish		Part #		
	143"	310-1084		
Gloss Black	124"	310-1085		
	111"	310-1086		
Chrome [±]	143"	310-1087		
	124"	310-1088		
	111"	310-1089		

^{**}WARNING: Cancer and Reproductive Harm

BILLET GEARCOVER

FITMENT

1999—'17 Twin Cam 88®, 96™ and 103™ (except '17 touring)

BILLET GEARCOVER

Finish	Part#
Polished	31-6516
Chrome	106-3774± 🕬

^{*}WARNING: Cancer and Reproductive Harm



31-6516

The S&S gearcover is not compatible with 1999–'01 engines with stock fuel injection or ignition systems which require a cam position sensor in the gearcover.

May be used in 1999—'01 engines if an aftermarket ignition or fuel injection system, that does not require a cam position sensor, is installed.

BILLET OIL FILTER BRACKET

FITMENT

• 1999—'06 big twin (except 2006 Dyna® models)

BILLET OIL FILTER BRACKET

Finish	Part #
Polished 26261-99	31-6510
Chrome	106-3884 🕬







i&S Late Models 1999-up

CYLINDERS WITH PISTONS KIT

- Cylinder w/piston kits include fitted pistons and cylinders, head gaskets, base, and exhaust gaskets
- Cylinder kits with pistons are honed to fit the pistons included.

S&S® 41/8" BORE CYLINDERS WITH PISTONS SPECIFICATIONS

Displacement	Stroke	Cylinder	Forged		Compress	ion Ratio	70
Displacement	Stroke	Length	Piston type	85cc Stock heads	89cc S&S heads	91cc S&S heads	SE 95cc heads
124"	4.625	5.013	Flat Top	11.4:1	11.0:1	10.8:1	10.5:1
124" Dish	4.625	5.013	10.9 cc dish	10.5:1	10.2:1	10.0:1	9.7:1
117"	4.375	4.888	Flat Top	10.9:1	10.5:1	10.3:1	10.0:1
117" Dish	4.375	4.888	10.9 cc dish	10.0:1	9.7:1	9.6:1	9.3:1
111"	4.125	4.763	Flat Top	10.3:1	9.9:1	9.8:1	9.4:1

41/8" BORE CYLINDERS WITH PISTONS FOR 124", 117", & 111" KIT

Displacement	Bolt Pattern	Silver	Wrinkle Black	
124" Hot Set Up - Stock Heads	Stock	910-0215	910-0223	
124" Hot Set Up - S&S 89cc/91cc Heads	Stock	910-0214	910-0222	
124"	S&S	910-0216	910-0226	
117"	S&S	910-0217	910-0227	
111"	Stock	910-0017	910-0025	
111"	S&S	910-0218	910-0277	

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S&S° 4" BORE BOLT-IN SIDEWINDER° KITS SPECIFICATION CHART								
					Compression Ratio			
Displacement	placement Bore Stroke Cylinder Length	Piston Type	Dome Volume	83cc CNC	85cc Stock	89cc S&S		
				Heads	Heads	Heads		
100"	4.00"	4.00"	4.937"	Forged	8.75 pop up	10.8:1	10.5:1	10.1:1

4" BORE BOLT-IN SIDEWINDER® BIG BORE KITS

Displacement	Silver	Wrinkle Black
100	910-0642	910-0646

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S&S® 98" & 97	7" BIG BORE	KIT SPECIF	ICATION CHA	ART

	_		Cylinder	Forged Bolt		Compression Ratio (with provided .045" head gasket)					
Displacement	Bore	Stroke	Length	Piston Type		83cc Heads	79cc S&S Heads	85cc Heads	87cc Heads	89cc S&S Heads	90cc Heads
98"	3.937"	4.00"	4.937"	10cc Dome	Stock	10.5:1	n/a	10.3:1	10.1:1	n/a	9.8:1
97"*	3.927"	4.00"	4.937"	3cc Dome	Stock	n/a	9.7:1	10.3:1	n/a	9.4:1	n/a

*For an additional .2 bump in compression, order .030" thick head gaskets #900-0605 (2 pack). Remember to check your clearances.

BIG BORE KIT

Displacement	Bolt Pattern	Silver	Wrinkle Black
98" Big Bore Kits	Stock	910-0482	910-0481
97" Big Bore Kits	Stock	910-0201	910-0205

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CYLINDERS WITH PISTONS KIT CON'T

S&S® 37%" BORE CYLINDERS WITH PISTONS SPECIFICATION CHART								
Displacement	Ctualca	Culinday Langth	der Length Forged Piston Type Bolt Pattern			COMPRESSION RATIO		
Displacement Stroke	Stroke	Cylinder Length	rorgeu riston type	Bolt Pattern	85cc Stock Heads	79cc S&S Heads	89cc S&S Heads	
106" Stroker	4½"	4.937"	Forged	Stock	10.1:1	10.8:1	9.8:1	
95"	4"	4.937"	Forged	Stock	9.7:1	10.3:1	9.9:1	

3%" BORE CYLINDERS WITH PISTONS FOR 106" & 95" KIT

Displacement	Bolt Pattern	Silver	Wrinkle Black
106" Stroker	Stock	910-0199	910-0203
95"	Stock	910-0200	910-0204



ALL OTHER BORES AND FINISHES ARE AVAILABLE THROUGH SPECIAL ORDER

91-7506* Call for Pricing



S&S® highly recommends installing a performance cam for easier starting and better engine performance.

S&S high flow cylinder heads will provide further horsepower gains.

These kits require tuning.

CYLINDERS

• Individual cylinders and cylinder sets without pistons are bored slightly under nominal size and are not honed.

4.425" BORE CYLINDERS WITHOUT PISTONS FOR T143

Displacement 143"	Set	910-0568	910-0565
143	Jet	310-0300	710-0303

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41/8" BORE CYLINDERS

Displacement		Silver	Wrinkle Black	Polished
124" Hot Set Up	Set	910-0234	910-0255*	-
124"	Set	910-0237	910-0264	910-0249
117"	Set	910-0240	_	-
111"	Set	910-0243	910-0281	-

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3%" BORE CYLINDERS

Displacement		Silver	Wrinkle Black
106" Stroker	Set	910-0207	910-0208

3.937" BORE CYLINDERS

Displacement		Silver	Wrinkle Black	
98"	Front or Rear	910-0478	910-0477	

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3.927" BORE CYLINDERS

Displacement		Silver	Wrinkle Black
97"	Front or Rear	910-0210	910-0212



PISTON KITS

• Piston kits include set of pistons, rings, wristpins, and clips

4.425" BORE FORGED PISTON KITS FOR T143

Displacement	Deck Height	Stroke	Standard	+.020"	⊛⊛৺ 920-0046
T143	1.167"	45/8"	920-0106	920-0111	Dish topped



106-3491A Flat topped

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TION CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT 478" BORE FORGED PISTON KITS FOR HOT SET UP KITS®

Displacement	Deck Height	Stroke	Standard	+.010"	+.020"	+.030"
124" & 117" Stock Heads 10cc Dished	1.050"	Up To 45/8"	920-0046	920-0047	920-0050	920-0053
124", 117" & 111" -Stock or S&S Heads Flat Top	1.050"	Up To 45%"	106-3491A	106-3872A	106-3964A	920-0094

4" BORE FORGED PISTON KIT

Displacement	Deck Height	Dome Height	Stroke	Standard
100	1.270	8.75cc	4"	920-0129

3.937" BORE FORGED PISTON KIT

Displacement	Deck Height	Dome Height	Stroke	Standard
98"	1.270"	10cc	4"	920-0101





3.927" BORE FORGED PISTON KITS

Displacement	Deck Height	Dome Height	Stroke	Standard	+.010"
97"	1.270"	Зсс	4"	106-3688	106-4414

95"

3%" BORE FORGED PISTON KITS

Displacement	Deck Height	Stroke	Standard	+.005"	+.010"	+.020"
106" Stroker	1.020"	4 ½"	92-1210	92-1214	92-1211	92-1212
95"	1.270"	4"	92-1200	92-1204	92-1201	92-1202

NOTE

S&S' 37%" pistons for 95" kits and 41%" pistons are machined to such close tolerances that it is not necessary to measure the piston. Additionally, the low friction coating on the piston skirt makes taking measurements very difficult. Therefore, hone cylinders to nominal diameter +/- 0.0005" for correct clearance.

S&S' 3.937" & 3.927" pistons are machined to such close tolerances that it is not necessary to measure the piston. Additionally, the low friction coating on the piston skirt of early production pistons with out micrometer window makes taking measurements very difficult. Therefore, hone cylinders to nominal diameter +/- 0.0001" for correct clearance. Current production pistons have micrometer windows in the coating on the piston skirts that allow accurate measurements to be taken. These pistons may be installed by honing cylinder to nominal diameter +/- 0.0001" or by measuring piston and honing cylinder to achieve .002"—.0025" close clearance for street applications or .0032"—.0045" loose clearance for immediate competition use.

REPLACEMENT PARTS FOR PISTONS

PISTON RINGS, CHROMOLY FACED

Bore	Standard	+.005"	+.010"	+.020"	+.030"
4.425"	940-0043	_	-	940-0044	_
41/8"	940-0014	_	940-0012	940-0013	940-0017
3.937"	940-0032*	_	-	_	_
3.927"	106-3709A	_	106-4422A	_	_
3%" for 106" Stroker	94-1295X	94-1299X	94-1296X	94-1297X	_
3%" for 95" Kit	94-1290X	94-1294X	94-1291X	94-1292X	_
4"	940-0056 [†]	_	_	_	_

^{*}Only includes one set of rings.

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REPLACEMENT PISTON WRISTPINS

Descriptio	n	Part #
	For 4.425" Pistons	940-0037
Wristpin	For 4 1/8" Pistons (92-1550 Series)	94-9277
wiisthiii	For 4 1/8", 3 7/8", 3.927" Pistons	106-1052
	For 3.937" Pistons	940-0033

REPLACEMENT PISTON KEEPERS

KEPLACEMENT PISTUN KEEPEKS		
Description		Part#
	each	94-9278-S
Keeper	2 pack	94-9278-2
	4 pack	106-2304
Keeper for 4.425"	each	94-9278-S
Keeper For 3.937" & 4"	2 pack	940-0034

POWER PACK

Bump 1999—'06 engines from 88ci to 100ci and 2007-'17 engines from 96ci or 103ci to 110ci with the new S&S 4" big bore kit. The kit also includes matched cams, cam plate, oil pump and everything else a high performance big inch engine needs to reliably make serious power.

FITMENT

• 1999–06 big twin except 2006 Dyna® models

FEATURES AND BENEFITS

- Largest big bore kit available without doing crankcase mods
- Upgrade Twin Cam 88 to 100 cu inches
- Cylinders fit to pistons—No machining required
 All parts required to upgrade to gear drive cam or hydraulic tensioners
- Engineered package to deliver the best bolt-in performance available



POWER PACKAGE KIT

Fitment	Finish	Cam	Drive	Part#
1999–'06 except '06 Dyna®	Silver	585CE	Chain	330-0662
1999–'06 except '06 Dyna®	Silver	585GE	Gear	330-0663
1999–'06 except '06 Dyna®	Black	585CE	Chain	330-0664
1999–'06 except '06 Dyna®	Black	585GE	Gear	330-0665

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1999–'04 engines will require the additional purchase of valve springs pn 900-0593 Pinion shaft runout must be less that .003" to use gear drive cams Kit not available to fit '06 Dyna® models but parts may be purchased separately.

Not for use with S&S 79cc Cylinder Heads.



CAMSHAFT OVERVIEW

OES: Original Equipment Specification (OES). A bolt-in replacement cam with stock cam timing is designed for riders with stock engines. Does not require tuning. Bolt-in stock. Equivalent to HD® A-Grind

505C: Bolt-in cam, low-end torque and mid-range horsepower. Good for heavy bikes. Stock comp. ratio. Compatible with stock valve springs. Range: Idle to 5,000 rpm

509: Designed as a bolt-in, high torque cam for 1999—'06 models. 180 psi cranking compression, no need for compression releases. For 88 CID engines with stock compression ratio. Idle—4500 rpm. Bolt-in torque.

510: Designed as a bolt-in cam for 88, 95, and 96 CID engines with compression ratios below 9.7:1, it is primarily intended for use with stock, un-ported heads. 3000—5500 rpm. Bolt-in overall.

551: Designed for engines with 96 to 106 CID and 9:1 to 9:9 compression this cam set designed for stock or mildly modified touring bikes. 551 cams are not recommended for compression ratios of 10:1 or greater. Greatly improves low-end and midrange torque, strongest from idle—4000rpm.

570: Designed for 88 to 103 CID engines with compression ratios between 9:1 and 10:1 this cam will provide a nice power increase across the entire power band. 3200–5700 rpm. Excellent bolt-in for overall power on 103".

583: Optimized for use in the Softail®/Dyna® lines, this cam makes horsepower and torque that you can feel all the way through the rpm range, making the most power right where you need it:1500–5000rpm. 583 cams are not recommended for enginess having comression ratios greater than 10.1:1

585: Designed for 88 to 95 CID engines with compression ratios from 9.7:1 to 10.5:1 and 100 to 124 CID engines from 9:1 to 10:1 compression. Provides massive horsepower and torque increases starting at 3000rpm and holds steady all the way to redline. 3500–6000 rpm for 88"—103" engines and 2500—5500 for larger engines.

625: Cam set designed for 95" or larger engines with compression ratios between 10.0 and 10.75:1. 3000–6000 rpm.

MR103: Designed as bolt-in cams for 103 CID engines with stock 9.7:1 compression ratio up to 10.5:1. Works well with stock, un-ported heads, but is great for S&S CNC ported heads. More power across the rpm range best results form 2500—5500 rpm. Bolt-in.

HP103: Designed as bolt in cams for engines with 103 and stock 9.7:1 compression up to 10.5:1. Works well with stock, un-ported heads, but is great for S&S CNC ported heads. Best power in the higher rpm range, 3000—6000 rpm. Bolt-in.

635 H.O.: High lift cam for modified engines with 106" or greater displacement and compression ratios between 10.0:1 and 11.0:1. Works well with stock, un-ported heads, but S&S CNC ported heads are recommended. Best power from 3000–6000 rpm. This is not a bolt-in cam set. High-lift springs and clearance checks are required.

640: Used in S&S T124 engines, this cam makes horsepower! Intended for engines of 95 CID or more w/ compression ratios between 10.5:1 and 11.5:1, 3000-6000 rpm.

675: A high lift monster, this cam set is designed for 120" or larger engines with at least 11:1 compression ratio. 4500–6500 rpm.





Stock valve springs in 1999—'04 big twin models can handle cams with valve lifts as high as .515". Stock valve springs in 2005—up engines can accommodate valve lifts up to .590".

Cam	Bolt-	Valve Timing (open/close)		Valve Duration		- Valve	Cent	Centerline		@ TDC	APPLICATION CROSS REFERENCE		
Name	In	Intaka Fuhaust	Lift	Intake	Exhaust	Intake	Exhaust	HD® Screamin′ Eagle®	Andrews®	Most Fitting			
0ES	•	2°/34°	36°/4°	216°	220°	.475"	106°	106°	.060"	.060"	A-Grind		
505C	•	20°/36°	47°/15°	236°	242°	.505"	98°	106°	.185"	.157"			
509	•	18°/18°	46°/11°	216°	237°	.509"	90°	107.5°	.174"	.140"			
510	•	20°/38°	52°/20°	238°	252°	.510"	99°	106°	.187"	.178"			
551**		17°/19°	41°/17°	216°	238°	.550"	91°	102°	.178"	.170"	SE-203/255	21H/26H	Touring
570		20°/40°	55 °/20°	240°	255°	.570"	100°	107.5°	.187"	.179"	-	54H	All Big Twin
583		5°/18°	58°/24°	203°	262°	.583"	96.5°	107°	.113"	.206"	SE-203/255	21H/26H	Softail®/Dyna®
585		20°/45°	60°/20°	245°	260°	.585"	102.5°	110°	.186"	.179"	SE-211/251/257	31H/32H/ 50H/55H/67H	All Big Twin
625		20°/55°	60°/20°	255°	260°	.625"	107.5°	110°	.189"	.184"	SE-258/260	60H	All Big Twin
635		19.5°/43.5°	58.5°/37.5°	243°	276°	.635"	102°	100.5°	.186"	.284"			
MR103		13°/33°	50°/22°	226°	252°	.585"	104°	104°	.172"	.177"			
HP103		20°/49°	45°/26°	249°	251°	.575"	102.7°	101.5°	199"	.206"			
640		25°/60°	65°/25°	265°	270°	.640"	107.5°	110°	.228"	.214"	SE-264	59H	All Big Twin
675		25°/64°	70°/25°	269°	275°	.675"	109.5°	112.5°	.235"	.205"	_	64H	Race

*Note: Although several cam grinds were used in stock engines from 1999-'06, the timing specs of the 475G cams is most similar to cams used in 1999-'03 EFI engines.

**551 cams are not recommended with compression ratio of 10:1 or higher.

All reference to HD® and Andrews® part numbers is for identification purposes only. We in no way are implying that any of S&S Cycle's products are original equipment parts or that they are equivalent to the corresponding HD® part number shown. Use of brand names such as Harley-Davidson® Sportster® are also for reference only.

CAMSHAFT OVERVIEW CON'T

S&S EASY START CAMS

Start any engine regardless of displacement or compression ratio, with a stock starter. Easy Start Cams from S&S® Cycle make hard starting obsolete for 1999-'12 big twins. Available in economical chain drive and rock-solid gear drive versions. Don't get caught "dead" without them!

FEATURES AND BENEFITS

- · Start any engine with a stock starter
- Save your starter and battery!
- Reliable tested for 100,000 accumulative starts and over 150,000 road miles without breakage or compression release failure!
- Automatic no buttons to push

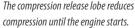
OPTIONS

• Chain drive or gear drive (See the following pages for part numbers)

HERE'S HOW IT WORKS

Each of the two exhaust cam lobes are equipped with a spring loaded compression release lobe on the "heel" of the cam at the point where the valve would normally be fully closed. The lobe holds the exhaust valve open slightly at cranking speed. This releases some of the compression, making the engine much easier to crank. Once the engine starts, and rpm increases, the compression release lobe is centrifugally retracted and the engine runs normally, with full compression, and without any loss in performance. This allows a stock starter and battery to start nearly any engine.







Increased rpm causes the compression release lobe to be centrifugally retracted so the engine runs normally.

GEAR DRIVE CAM KITS

FEATURES AND BENEFITS

- Improves valve timing accuracy by eliminating timing chain lash
- Easy Start Cams allow stock starter to start any engine
- No tensioner shoes to wear out or fail

OPTIONS

WHICH S&S GEAR DRIVE CAM KIT TO ORDER?

- If updating a stock chain drive system, it's easiest to order a complete kit. Includes:
 - Camshafts with inner gears
 - · Outer cam drive gear kit
 - Camshaft installation kit
- If replacing cams in an engine already equipped with S&S gear drive cams, order cams with inner gears and reuse the existing outer gears. Camshaft installation kit for the appropriate model year is recommended.
- If installing a set of gear drive cams from another manufacturer, order S&S cam gear kits for the appropriate model year. Each kit provides the inner cam gear as well as an outer cam gear. Camshaft installation kit for the appropriate model year is recommended.





GEAR DRIVE CAMS FOR 1999-'06 MODELS (EXCEPT 2006 DYNA®)*

	Easy Start			Standard	
Cam Name	Complete Kit Cams w/Inner Gears		Complete Kit Cams w/Inne		
	Stock Oil Pump	Stock Oil Pump	S&S gear oil pump	Stock Oil Pump	Stock Oil Pump
0ES	_	-	-	106-4033⁺	106-4385 [↑]
509	_	_	_	330-0017	330-0018
510	_	_	_	33-5177	33-5174
551	106-5442	106-5441	_	330-0100	330-0099
570	106-5243	106-5242	_	33-5178	33-5166
583	106-5859	106-5858	-	330-0107	-
585	106-5247	106-5246	106-4771	33-5179	33-5168
625	106-5251	106-5250	_	33-5180	33-5170
MR103	330-0466	330-0467	_	330-0462	330-0463
HP103	330-0452	330-0453	_	330-0448	330-0449
635 H.O.	330-0438	330-0439	330-0405	330-0432	330-0435
640	106-4840	106-4839	106-4781	33-5181	33-5172
675	106-5255	106-5254	106-5215	_	_

^{*2006} Dyna® install kit is in Section 2.

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Exempt from emissions tampering regulations in 1999-2006 applications originally equipped with H-D? "A" grind camshafts under CARB EO# D-355-14



Pinion shaft run-out must be checked before installing S&5® gear drive cams. Gear Drive cams should only be used in engines with pinion shaft runout of no more than .003"

A hydraulic press and other professional tools are required to install S&S gear drive cams. Additionally, material must be removed from the inner surface of the stock gearcover. The stock crankcase will require clearancing for S&S .625", .640", and .675" lift cams. S&S recommends that gear drive cams be installed by a professional mechanic.

New cam bearings and a new gearcover gasket are required to complete cam installation. Gear drive cams for 1999—'06 models require the use of ball bearing style cam bearing rather than the stock roller bearing. Roller bearings have more internal clearance which can cause excessive gear lash and increased noise. The correct parts are provided in S&S Camshaft Installation Kit, part #106-5896.

Due to the inherent characteristics of gear drives, you may experience more valve train noise with gear driven cams. Oversized and undersized gears are available to help achieve correct gear lash. We have found that with 160 lb. of valve seat force, the S&S gear drive cams will perform well up to 6200 rpm. If higher rpm is anticipated, valve springs that provide higher seat force should be used.

S&S can do a special order cam. Contact your S&S Customer Service Representative for more information.

1999–2006 big twins

CHAIN DRIVE CAM KITS

FEATURES AND BENEFITS

- Increase performance at an affordable price
- Quick installation—reuse many stock components
- Easy Start Cams allow stock starter to start any engine

KIT CONTENTS

- Cams
- Installation Kit: gearcover gasket, bearings, retaining ring, o-ring, thread lock
- Instructions



If OES, 509 or 510C cams are used with the stock chain drive system in Twin Cam 88° engines, it is recommended to use cylinder heads with stock valve springs or performance valve springs with no more than 160 lb. of seat force. For more demanding applications, we recommend the S&S gear drive cams.

When using 1999–'06 chain drive cams for lifts over .510", S&S strongly recommends that the stock chain drive be upgraded to the S&S gear drive or to the HD® #25284-08 or #25284-11 hybrid plate. This kit updates the problematic spring loaded chain tensioners to reliable hydraulic tensioners and also upgrades the oil pump.

551 and 583 cams are not recommended with compression ratio of 10:1 or higher.

S&S can do a special order cam. Contact your S&S Customer Service Representative for more information.

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CAM RELATED PARTS

Fitment

Fits 1999-'06 bt



CAM GEAR DRIVE KITS

OUTER CAM DRIVE GEAR KIT

Fitment	Part #
1999–'06 bt	33-4275

(Includes front and rear inner cam gears, pinion gear, and outer cam gear)

Part #

33-4276







33-4271P



33-5212



HARDWARE PACK FOR OUTER CAM GEAR		
Description	Part #	
Hardware Pack, Fits 1999—up bt	33-4271P	
Replacement Key	106-1348	

HEAVY DUTY CAM BEARING PLATE

Fitment	Part #
Fits 1999–'06 bt	33-5212

CAM NEEDLE BEARINGS ASSEMBLIES

Fitment	Part #
Inner Cam Bearing 1999—'06 bt	31-4080
(except 2006 Dyna®) 9198	31-4000

CHAIN DRIVE CAM KITS FOR 1999-'06 MODELS (EXCEPT 2006 DYNA®)

(EACE 12000 BTIVIT)			
Cam	Standard	MSRP	Easy Start
0ES	330-0400	\$352.95	-
505	330-0374	\$352.95	_
509	330-0016	\$352.95	-
510	33-5182A	\$352.95	-
551	330-0002	\$352.95	106-5293
570	330-0003	\$352.95	106-5296
583	330-0004	\$352.95	106-5289
585	330-0005	\$352.95	106-5299
625	330-0006	\$352.95	106-5302
MR103	330-0456	\$352.95	330-0459
HP103	330-0442	\$352.95	330-0445
635 H.O.	330-0426	\$352.95	330-0429
640	330-0007	\$352.95	106-5305

^{*2006} Dyna® cams are in Section 2.

REPLACEMENT GEARS, OVERSIZED & UNDERSIZED

Description		Fitment	Part #
Cam Drive Gear Set		1999-up	33-4293
Outer Rear Cam Drive Gear Only		1999—'06 (except '06 Dyna)	106-4882
Inner cam gear, Front or Rear		1999—'06 (except '06 Dyna)	330-0550
Rear Inner Cam Gear, Undersized		1999—'06 (except '06 Dyna)	330-0551
Rear Inner Cam Gear, Oversized		1999—'06 (except '06 Dyna)	330-0552
	Standard Size	1999—up	33-4160
Pinion Gears	Undersized		33-4160X
	Double Under		33-4160XX
	Oversized		33-4160Z
	Double Over		33-4160ZZ

Due to machining variations in the stock cam plate, oversized or undersized gears may be needed to achieve correct gear lash.

REPLACEMENT INSTALL ATION KITS

REI ENCEMENT INSTREEMTON RITS	
Description	Standard
For S&S Chain Drive Cams	33-5175
For S&S Gear Drive Cams	106-5896

Includes a gearcover gasket, cam bearings, retaining ring, o-ring, thread lock and instructions.

CAM CHEST UPGRADE GEAR OR CHAIN DRIVE

FITMENT

 1999—'06 Harley-Davdison* big twins & 2006 Dyna* models (except 2006 Dyna* models)

FEATURES

- Upgrade to S&S bolt-in performance chain drive or gear drive camshafts
- Upgrade 1999—'06 models to 2007—'16 style oil pump
- Improved engine performance higher lift and optimized cam timing
- S&S Quickee pushrods easy installation, without removing rocker covers
- Replace stock oil pump, cam support plate, cams, chain tensioners, and tappets with all new premium U.S. made S&S components
- Better, more consistent oil pressure



CHAIN DRIVE CAM CHEST UPGRADE KIT FOR 1999-'06 BIG TWINS (EXCEPT 2006 DYNA® MODELS)

	T_
Cam	Part #
509C	330-0540
Standard	330-0340
510C	220.0541
Standard	330-0541
551CE	220.0542
Easy Start	330-0542
585CE	220.0542
Easy Start	330-0543

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GEAR DRIVE CAM CHEST UPGRADE KIT FOR 1999–'06 BIG TWINS (EXCEPT 2006 DYNA® MODELS)

Cam	Part #
509G Standard	310-0810
510G Standard	310-0811
551GE Easy Start	310-0812
585GE Easy Start	310-0813

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INTE

Stock valve springs in 1999–'04 big twin models can handle cams with valve lifts as high as .515". Stock valve springs in 2005—up engines can accommodate valve lifts up to .590".

HYDRAULIC CAM CHAIN TENSIONER KIT

FITMENT

- 2007-2016 big twin & 2006 Dyna® models
- 1999—'06 models with hydraulic cam plate upgrade

FEATURES

- Thicker shoe for longer wear
- Direct chain oiling
- Larger piston
- Tighter tolerance for improved stability
- Made in USA

HYDRAULIC CAM CHAIN TENSIONER KIT

Fitment	Part #
1999—'06 models with	330-0518

REPLACEMENT PARTS

Description	Part #
Tensioner, Asm, Inner, Body, Cam Chain	330-0519
Tensioner, Assembly, Outer, Body, Cam Chain	330-0520
Tensioner Shoe, Chain, Camshaft	330-0521



PRECISION TAPPETS 2020

High performance tappets are a cornerstone of the S&S line up and we are always looking to improve our products. After months of research and countless hours of testing we are excited to reveal the latest in performance lifters. The S&S Cycle Precision Tappets replace both our standard as well as premium lifters. Each Precision Lifter is hand assembled to exacting tolerances and designed for quiet operation and rapid pump up and all are made in the USA.

FITMENT

- 1999–2017 big twins
- S&S T-Series engines

PRECISION TAPPETS

Set of 4 tappets

330-0718

FEATURES

- Reduced valve train noise from start up to shut down
- Close tolerances for low leak down rates
- · Fast pump up and superior high rpm performance



TAPPET COVERS

FITMENT

- 1999–'16 big twin
- S&S crankcases

FEATURES AND BENEFITS

- CNC billet aluminum provides extra strength and dimensional stability over a wide temperature range
- Simple to install upgrade that looks great

KIT CONTENTS

- Covers
- Gaskets
- · Installation hardware



TAPPET COVER KITS

Finish	Part#
NEW FOR 2020 Gloss Black	330-0588
Polished	33-5601 🕬
Chrome	106-3883±

^{**}WARNING: Cancer and Reproductive Harm

REPLACEMENT PARTS FOR TAPPET COVERS

Descriptions		Part #
Gasket	each	33-5303-S 18635-99B
Gasket	2 pack	33-5303-2 18635-99B
C/A-+	each	50-0092-S 4741A
Screw w/flat washer, Zinc	4 pack	50-0092P 4741A
Screw, Chrome	each	50-0482±
Washer, Flat, Chrome	each	50-7017 [±]

^{± ★} WARNING: Cancer and Reproductive Harm

93-5095

FITMENT

• 1999—'17 big twins (except 2017 touring models) w/stock engine height +/- .050"

FEATURES AND BENEFITS

- Adjustable to accommodate all tappets and cam base circle diameters and engine heights
- Easy to install—removal of rocker box not needed
- No threads on wrench flats
- Also available in gloss black

KIT CONTENTS

• Pushrods, chrome pushrod covers, o-rings, and cover keepers



When a Quickee adjustable pushrod is collapsed, it can easily be installed or removed from an assembled engine.



QUICKEE ADJUSTABLE PUSHRODS

Description	Part#
Gloss Black Pushrod Kit (includes black pushrod covers, o-rings & cover keepers)	930-0143
Chrome Pushrod Kit (includes chrome pushrod covers, o-rings & cover keepers)	106-6051 ± 🗫
Pushrods Only*	93-5122 🕬

Longer keepers are required for taller than stock engines. See page 187 for pushrod cover keepers.

*1984—'99 style pushrod covers are required for access to the Quickee Adjustable Pushrod adjusters in 2007-'12 big twins. See page 187 for pushrod covers.

*WARNING: Cancer and Reproductive Harm

STANDARD ADJUSTABLE PUSHRODS

FITMENT

- 1999–'17 (except '17 touring)
- Lengths available for various displacements

FEATURES AND BENEFITS

· Adjustable to accommodate all tappets & cam base circle diameters

KIT CONTENTS

• Pushrods, chrome pushrod covers, tappet cover gaskets, o-rings, cover keepers

STANDARD ADJUSTABLE PUSHRODS FOR HARLEY-DAVIDSON® TWIN CAM 88®

Displacement	Engine Height	Cylinder Length	Pushrod Kit [±]	Pushrods Only		Pushrod Covers [±]	Cover Keepers±
88", 95", 96", 103", 106"	Stock	4.937"	93-5095	93-5096	•	106-1340	93-4100
124"	+.096"	5.013"	_	93-5098		106-1340	93-4115
T143	+.2875"	5.057"	_	930-0103		106-1340	93-4102
Special Order	Specify	Specify	_	93-5102**		_	93-4109*

*Custom, extra long stainless steel 4.250", customer to cut to required length

NON-ADJUSTABLE PUSHRODS

FITMENT

- 1999–'06 Harley-Davidson® Twin Cam 88® big twin engines
- S&S T111

FEATURES AND BENEFITS

- Replaces stock pushrods perfectly
- 7/6" high strength chromoly steel tubing for increased strength
- Pushrods are marked with stock color code and valve position for easy installation

NON-ADJUSTABLE PUSHRODS—PUSHRODS ONLY

Fitment	Part #
1999-up	930-0046
T111	930-0144



^{*}WARNING: Cancer and Reproductive Harm

PUSHROD COVERS & RELATED PARTS

FITMENT

• 1999–'17 big twins

PUSHROD REPLACEMENT PARTS

Description		Part #	
Pushrod Cover Kit (includes top & bottom covers,	Chrome	106-1340	
cover cap, cover spring, spring washer, & o-rings for four pushrods)	Gloss Black	930-0124	
Top Cover USA USA 1,2,3	each	93-4016 17935-66T, 17935-79B	
Bottom Cover OSA USA 1,2,3	each	93-4015 17938-83	
Cover Cap USA USA 1,2,3	each	93-4017 17945-36B	
Cover Spring USA _{1,2,3} each		93-4018 17947-36	
Cover Cap Washer each		50-7131 <i>67628</i>	
Pushrod O-ring kit (includes top, middle, and bottom o-rings for four pushrods)		93-4022	
Top 0-ring	each	50-8039 11293, 11157, 11101, 11190	
Middle 0-ring	each	50-8038 11132A	
Bottom O-ring each		50-8037 11145A	



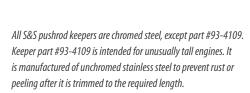






PUSHROD COVER KEEPER SETS FOR 2007-'17 BIG TWINS

Length/Finish		S&S Tubes	Part #
2.390" / Gloss Black			930-0127
2.400" / Chrome		All stock height TC 96/103	93-4070 [±] 17950-48
2.500!!	Chrome	96", 100", 117",	93-4100 [±]
2.500"	Gloss Black	103", 106" HSU	930-0142
2 (00"	Chrome	42411	93-4101±
2.600"	Gloss Black	 124"	930-0128
2.800" / Chrome			93-4115 [±] 17950-86
2 000"	Chrome	143"	93-4102 [±]
2.900" Gloss Black			930-0126
3.000" / Chrome			93-4103±
3.100" Chrome Gloss Black			93-4104 [±]
			930-0125
3.200"/C	hrome		93-4105 [±]
3.330" / Chrome			93-4106 [±]
			17949-40, 17950-66
3.500"/C	hrome ————————		93-4107 [±]
3.625" / Chrome			93-4108±
4.250"*			93-4109



93-4101



^{*}Custom, extra long stainless steel 4.250", customer to cut to required length

^{**} WARNING: Cancer and Reproductive Harm

SIDEWINDER® .650" VALVE SPRINGS

FITMENT

- Twin Cam 88® big twins w/stock heads (both 7mm and 56" valve stems)
- All S&S Super Stock® heads (5/16" valve stems)

FEATURES AND BENEFITS

- Works well with cams up to .650" lift
- Manufactured from ultra clean high silicon Kobe alloy wire then micro shot peened and nitrided
- CNC machined 9° locks
- High performance conical single wire spring
- Chromoly forged retainers

KIT CONTENTS

• Valve keepers, Top & Bottom collars, Springs, Shims

SIDEWINDER .650" VALVE SPRING KITS

Description	Part #
1999–'04 (5/16" valve stems) *	900-0050
2005—'17 big twins (7mm stems) except 2017 touring models	106-5909

^{*}Does not include seals







S&S recommends roller rocker arms be used with lifts over .585"

STREET PERFORMANCE .585"

FITMENT

- Twin Cam 88® big twins w/stock heads (both 7mm and 5/16" valve stems)
- All S&S Super Stock® heads (5/16" valve stems)

FEATURES AND BENEFITS

- · Single wire conical shape
- Suitable for high performance applications
- Accommodates camshaft lift to 0.585"

STREET PERFORMANCE .585" SPRING KITS

Description	Part #
1999–'04 big twins (5/16" valve stems)	900-0593
2005—'17 big twins (7mm stems) except 2017 touring models	900-0594
All S&S Super Stock Heads	900-0595

S&S® .STREET PERFORMANCE .585" VALVE SPRINGS SPECIFICATIONS				
Lift	Installed Height	Seat Force	Force @ Max Lift	
.585"	1.85"	135 lb.	325 lb.	



900-4065A

FORGED ROCKER ARMS

FITMENT

• 1999—'17 big twins (except '17 touring)

FEATURES AND BENEFITS **ROLLER ROCKER ARMS**

- Extremely durable rollers reduce valve stem side thrusting with high lift cams
- Superior wear and fatigue resistance even in the most demanding applications
- 34" long bushings provide 50% more bushing support area than ½" long bushings

STANDARD ROCKER ARMS

• ¾" long bushings provide 50% more bushing support area than ½" long bushings

KIT CONTENTS

• 2 front and 2 rear rocker arms

FORGED ROLLER ROCKER ARM KIT

Description	Part#
2 front and 2 rear rocker arms	900-4065A 🗫

Adjustable pushrods must be used with S&S roller rocker arms to obtain proper valve clearance. New rocker arm shafts are recommended for maximum performance and rocker life.

STANDARD FORGED ROCKER ARM KIT

SIMILATION OF TOTAL PROPERTY AND THE STATE OF THE STATE O		
Description	Part #	
2 front and 2 rear rocker arms	900-4119A 🕬	

New rocker arm shafts are recommended for maximum performance and rocker life.

1.725:1 RATIO ROLLER ROCKER ARMS

Description	Part #
1.725:1 Ratio Roller Rocker Arm Set	900-4098A
Front exhaust/Rear Intake each	900-4098FA
Rear exhaust/Front Intake each	900-4098RA



900-4098A

900-4119A



Description	Part#
Set of 4 17611-83B	90-4036
Individual 17611-83B	90-4006 JUSA _{1,2,3}

New rocker arm shafts are recommended for maximum performance and rocker life.

90-4036

REPLACEMENT PARTS FOR FORGED ROCKER ARMS

Rocker Arm Type	Description	Part #
D-II	Front exhaust or rear intake rocker arm	900-4065FA (ISA),2,3
Roller	Rear exhaust or front intake rocker arm	900-4065RA (SA _{1,2,3}
Standard	Front exhaust or rear intake rocker arm	900-4119FA 🕬
17375-83A	Rear exhaust or front intake rocker arm	900-4119RA 🕬
Roller	Rebuild kits (rebuilds 4 rocker arms)	90-4104
Roller & Standard	Rocker arm bushing (¾" long)	90-4014
	*	



S&S roller rocker arms are recommended for use with cams having more than 0.585" of lift.

Adjustable pushrods must be used with S&S roller rocker arms to obtain proper valve clearance.

New rocker arm shafts are recommended for maximum performance and rocker life.

90-4104

The use of 1.725:1 ratio rocker arms will increase stress on cams, tappets, and pushrods. For this reason they are recommended for racing only and not for street applications.

CNC PORTED CYLINDER HEAD SERVICES

FITMENT

- Available for 1999—2017 big twin engines (except Twin-Cooled™ models & '17 touring)
- Ideal for 88"—24" engines (must use Screamin' Eagle® high flow injectors, HD® #27796-08, with kits over 106")

FEATURES AND BENEFITS

- CNC machined ports for a consistent performance increase from stock heads
- Great throttle response, high velocity port without losing low RPM torque
- Assembled with performance valves and springs ready to bolt-on
- Choice of .585" or .650" lift valve springs
- Combustion chambers are available in the following volumes:
 - 83cc—Generally used for stock 88" up to 106" engine displacements
 - 85cc—Same as stock Twin Cam 88® and 96™ engine displacements
 87cc—Recommended for up to 117" engine displacements

 - 90cc—Generally used for 124" and up engine displacements
- Available in factory black or silver



- Send your stock heads to S&S
- Get the same set of heads back with CNC machined ports
- The best option for heads with a special cosmetic treatment
- Allow 1 week turn-around (does not include shipping)



106-5880

CUSTOM CNC PORT DUPLICATION

• S&S can digitize your port design and machine it in your heads, ask an S&S customer service rep for details

CNC PORTING SERVICE

Fitment	Part#	MSRP
1999–2017 big twins (except for twin cooled models & '17 touring)	106-5880	Call for Pricing

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S&S° CNC PORTING SERVICE SPECIFICATION COMPARISON										
Valve Size			Max Valve Lift	Max TDC Lift		Port Flow		Chamber		
Heads	Intake	Exhaust	Max valve Lift	Intake	Exhaust	Intake	Exhaust	Volume		
Stock	1.805"	1.575"	.585"	-	-	216.2 cfm	191.8 cfm	85cc		
CNC Ported by S&S 1.900" 1.610" .650" .230" .215" 248.6 cfm 209.7 cfm 83cc***										
*Flow testing performed on a	*Flow testing performed on a SuperFlow® 1020 flow bench at 28" of water test pressure at .600" lift. Heads tested are 2006-'12 style.									

Heads	COMPRESSION RATIO										
neaus	88"	95"	96"	97"	103"	106" Stroker	106" Big Bore	117" DD Piston	124" DD Piston		
Stock	9.0:1	9.2:1	9.2:1	9.7:1	10.1:1	10.1:1	10.0:1	10.0:1	10.7:1		
CNC Ported by S&S 9.2:1 9.4:1 9.4:1 9.9:1 10.3:1 10.3:1 10.2:1 10.2:1 10.9:1								10.9:1			
**As a general rule of thumb, for every 1cc decrease in chamber volume equals a .1 increase in compression ratio.											



CNC porting is not available for previously ported heads, heads that have been structurally damaged, or heads that are determined to be unserviceable during initial inspection. These heads will be returned to the customer without modification. In these cases, the customer will be notified and options will be reviewed. New, CNC ported stock heads or S&S heads are available for purchase.

Due to variations in stock cylinder head castings, all inside surfaces of the ports may not "clean up" during machining. As a result, the inside of one or more ports may not appear to be completely machined. This does not effect performance and is not considered a defect.

Fuel injection tuning required.

CNC porting is not currently available for Harley-Davidson® CVO engines or Screamin' Eagle® cylinder heads.

Must use Screamin' Eagle® high flow injectors, HD® #27796-08, with kits over 106"

S&S recommends using a S&S Throttle Hog throttle body when installing S&S CNC ported heads to achieve full horsepower performance potential.

B2 HEADS WITH STOCK BOLT PATTERN

CNC PORTED B2 SPECIAL APPLICATION CYLINDER HEADS

High performance just got a lot easier and more affordable. In the past, S&S'B2 Special Application heads, that were used on the now legendary Tribute 145 engines, were often hailed as the best choice for very large displacement v-twin engines. S&S Cycle's B2 CNC ported heads are even better, providing added convenience, economy, and performance at the same time. Convenient because they now fit 2008-later bagger front motor mounts and the new two bolt exhaust-mounting flange is a lot easier to work with. Economical because riders can use stock exhaust pipes, or existing 2" header systems. The increased performance comes from the increased flow of the CNC ported intake and exhaust ports.

Kits do not include gaskets, hardware, or intake and exhaust flanges. These parts must be purchased separately. See next page.



FITMENT

- 1999—'16 big twin engines 4%" bore, stock bolt pattern (in stock, off-the-shelf*)
 - *S&S only stocks the late model 41/8" bore versions as off-the-shelf items, but heads for other applications and individual front of rear replacement heads are available by special order.
- 1999—'16 big twin engines 41/8" bore and larger with S&S or other bolt pattern (special order only)
- 1984—'99 big twin engines 41/8" bore and larger (special order only)
- S&S SB-Series 41/8" bore and larger engines for 1986—'03 Sportster® models (special order only)
- Old style B2 replacement heads still available by special order

FEATURES AND BENEFITS

- 106cc combustion chambers
- Oval intake ports bolt up to S&S Throttle Hog 70mm throttle bodies (08—up touring applications only)
- Stock style breather system—compatible with stock and aftermarket air
- Large 2.200" intake and 1.800" exhaust valves
- .660" lift S&S valve springs with titanium top collars
- Machined for stock sensors—EFI ready
- · Available in Wrinkle Black or Silver powder coat

OPTIONS BY SPECIAL ORDER

- CNC ported intake and exhaust ports—more air, more power!
- Two-bolt exhaust flanges—Can accommodate stock exhaust headers, existing 2" headers, or build your own 2" exhaust system
- Machined for 2008—later bagger front motor mount
- Select heads for 1984—'99 or 1999—'15 big twin style, or 1986—'03 xl
- 41/8" to 43/8" bore sizes
- Stock 1999—up, S&S, or other cylinder stud patterns—other patterns subject to approval
- Machined with or without S&S electric compression release
- Choose from a variety of pushrod geometry machining styles
- Choose from a variety of different chamber sizes
- Individual front of rear heads available by special order
- Available in Wrinkle Black, Gloss Black, Silver, or Natural

B2 HEADS WITH STOCK BOLT PATTERN

Finish	Part #
Silver Powder Coat	900-0450
Wrinkle Black Powder Coat	900-0458

*Head Kits include valves and valve springs. Head sets w/o valves or springs individual front or rear heads are available by special order.

Special Order B2 Cylinder Heads	106-6385*	
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ADDITIONAL DARTS DECILIDED

Product Description		Part#
Special 41/8" Bore	Standard	92-1580
Pistons & Ring Set	+.010"	92-1581
Special Length Pushrods (+.250")	For 124" engines	93-5106
	Stock height engines	93-5098
1.1.1.1.2.11	Carbureted engines	16-3629*
Intake Manifold	EFI engines	N/A
Intake Manifold Flange Kits	All B2 heads	16-0250
	B2 to stock header	550-0216
Exhaust Adaptor Kit	B2 to exisiting 2" header	550-0217
	Stock & 2" header	550-0218

REPLACEMENT PARTS: SEE PAGE220



Heads are .230" taller than stock—requires special pushrods and/or frame clearancing or motor mount modifications Exhaust pipe adaptor kits and other parts must be purchased separately. See "Additional Parts Required" chart.



SUPER STOCK® CYLINDER HEADS

FITMENT

• 1999—'05 big twins (2006 model year heads can be found in Section 2)

FEATURES AND BENEFITS

- Heads can be decked up to .060" to increase compression
- 79cc heads have 1.940" intake and 1.575" exhaust valves
- 89cc heads have 2.000" intake and 1.605" exhaust valves
- 91cc heads have 2.000" intake and 1.605" exhaust valves
- S&S .585" or .650" lift valve springs

- Stock Harley-Davidson® rocker boxes can be retained if S&S manual compression release or S&S Easy Start cams are used. Must use S&S valve cover gasket kit part #90-4120 with stock rocker covers
- Stock bolt pattern heads include rocker base gaskets

OPTIONS

- With or with out compression release machining (Compression release machining is for S&S compression releases)
- Silver powder coat or wrinkle black powder coat finish

COMPRESSION RATIOS FOR S&S® SUPER STOCK® CYLINDER HEADS FOR 1999–'06 BIG TWINS										
Configuration	88"	95"	97" Big Bore	103"	106" Stroker	110"	111"	117"	124"	
79сс	9.1	9.6/10.3*	10.3	10.2/11.1*	10.7	10.8	-	_	-	
89сс	8.3	8.7/9.3*	9.4	9.3/10.1*	9.8	9.8	-	-	-	
91cc	-	-	-	-	-	9.6	9.75	10.2	10.4	
*S&S pop-up piston	*S&S pop-up piston									



106-4277

90-4120

S&S valve cover gasket kit # 90-4120 must be used with stock rocker covers. Included with Stock Bolt Pattern Super Stock® Head Kits.

STOCK BOLT PATTERN*

S&S® SUPER STOCK® CYLINDER HEAD KITS

Fitment	Chamber Volume	Manifold Surface	Compression Release Machining	Springs	Finish	Part #		
			•	.650"	C:1	106-4277		
				.585"	Silver	900-0254		
	79cc		•	.650"		90-1293		
1999–'05 bt				.585"	Wrinkle Black	900-0251		
	00		•	.650"	Silver	106-4270		
	89cc		•	.650"	Wrinkle Black	90-1106		
				.585"	Wrinkle Black	900-0410		
			•	.650"	Cilina	-		
1999-'05 bt**	91cc			.650"	Silver	900-4272		
41/8" Bore	9100		•	.650"	Wrinkle Black	90-1163		
						.650"	WITHKIE DIACK	900-1163
S&S T124	0166	. 022		.650"	Silver	900-0465		
Engines	91cc	+.032		.650	Wrinkle Black	900-0470		
S&S T111	0166	064		.585"	Silver	900-0475		
Engines	91cc	064		.585"	Wrinkle Black	900-0480		

^{*}All stock bolt pattern Super Stock* head kits include S&S valve cover gasket kit part #90-4120 for use with stock rocker covers.

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CONTROLLED MOTOR VEHICLE UNDER THE CLEAN AIR ACT

S&S® BOLT PATTERN

S&S REPLACEMENT CYLINDER HEAD KITS FOR S&S T-SERIES ENGINES FOR 1999-'06 BIG TWINS

Description	Chamber Volume	Compression Release Machining	Springs	Finish	Part #	
S&S® T-Series Engines 41/8" Bore	91cc	•	.650" lift	Silver	106-4275	
		•	.650" lift	Wrinkle Black	90-1371	



ALL OTHER SPECIFICATIONS AND FINISHES ARE AVAILABLE THROUGH SPECIAL ORDER

90-1060*

Call for Pricing



TOP END GASKET KITS FOR 1999-'06 BIG TWINS

37/8" & 3.927" Bore	4" Bore	S&S 4½" Bore (Graphite)	Stock 41/8" Bore (Layered Steel)
910-0465	90-1913	90-1910	90-1914

REPLACEMENT PARTS: SEE PAGE 222

Includes a set of head and base gaskets, exhaust gaskets and o-rings.

79cc heads

When 79cc stock compatible heads are used with stock HD® pistons, TDC lifts of up to .186" for intake and .179" for exhaust and can be used without additional valve pocket clearancing. This allows the use of S&S® 510, 570, and 585 camshafts. If cams with higher TDC lifts are used, or if the heads are decked, piston valve pocket machining will be required.

79cc heads may be decked as much as .060" to increase compression. If heads are decked, piston valve pockets must be re-machined.

Moderate valve spring force in S&S Super Stock® cylinder heads allows the use of camshafts designed for the stock style chain cam drive system. However, for maximum reliability and performance we recommend the S&S gear drive cams.

Must use S&S valve cover gasket kit part #90-4120 with stock rocker covers.

79cc Heads should not be used with any piston having a pop up dome.

89cc heads

If 89cc heads are used with stock pistons, valve reliefs must be machined in the pistons due to larger valve size.

89cc heads may be decked as much as .060" to increase compression. If heads are decked, valve-to-piston clearance must be checked. If stock pistons are used, valve pockets must be re-machined.

Moderate valve spring force in S&S® Super Stock® cylinder heads allows the use of camshafts designed for the stock style chain cam drive system. However, for maximum reliability and performance we recommend the S&S gear drive cams.

A larger intake manifold is recommended to supplement the heads in order to let them flow to their full potential.

Must use S&S valve cover gasket kit part #90-4120 with stock rocker covers.

91cc heads

By changing the profile and shape of the cooling fins on our heads for 41/8" bore engines, a large reduction in the transmission of mechanical noise was found. This not only benefits our TÜV certified engines and our EPA approved engines, but our performance engines as well!

Since April 1, 2007, these redesigned heads have been installed on all S&S 41/8" bore engines and Hot Set Up Kits.

Replacement heads of the old style are available by special order.

Must use S&S valve cover gasket kit part #90-4120 with stock rocker covers.

MANIFOLD RECOMMENDATIONS

S&S® manifolds for 1999-'06 carbureted engines are available to fit stock CV carburetors and S&S Super E and G carbs. Note that 2006 models require a slightly shorter manifold. (See "Important Manifold Information")

S&S single bore throttle body and manifold are recommended for engines with Magneti Marelli® and Delphi® fuel injection.

S&S single bore throttle body and manifold are recommended for 2006-'12, except 2008-'12 touring models. Due to the change in manifold flange mounting bolt pattern, stock flanges and S&S seal part #16-0235 must be used. The Screamin' Eagle® 58mm throttle body/manifold may also be used on 2006-'09 engines.

We recommend the stock 50 mm throttle body or Screamin' Eagle 58mm throttle body/ manifold for 2008-up touring models with Electronic Throttle Control (ETC). These engines can be tuned with the Harley-Davidson® Super Tuner package, Pro EFI Super Tuner, Power Commander® or an aftermarket EFI tuning module or software tuner.

IMPORTANT MANIFOLD INFORMATION

In 2006, Harley-Davidson® changed the bolt pattern of the flanges that connect the manifold to the cylinder heads for all big twin engines. The pattern was changed from an offset bolt pattern to a symmetrical bolt pattern, so flanges can fit either the front or rear cylinder head. In addition, the intake port was moved slightly toward the drive side of the engine, making the port-to-port distance of the intake manifold slightly shorter. S&S® heads for 2006-up big twins are machined with the symmetrical bolt pattern and relocated port to allow for the fitment of stock manifolds. In 2008, Harley–Davidson touring models were equipped with electronic throttle control (ETC). The throttle body and manifold used on these engines is a one-piece unit that contains a servomechanism to control the position of the throttle plate. S&S recommends the S&S Throttle Hog throttle body for this application. This limits the cylinder length of engines using an ETC manifold/throttle body to stock length because the ETC manifold/throttle body units are only available in stock length. However, S&S does supply specially machined cylinder heads tfor our 124" Hot Set Up Kit® for 2008 and later baggers, which allows the use of a stock length manifold on these longer-than-stock engines.

ORDERING NOTES:

- Select the cylinder head kit that is correct for your application.
- Select a gasket kit for the bore size of your engine. (Refer to "S&S Top End Gasket Kits" chart on page 192)
- Select an S&S manifold for your engine size or cylinder length and fuel system. (Optional)
- Select head bolt kit. (See page 194)

REPLACEMENT PARTS: SEE PAGE 222

HEAD BOLTS WITH WASHERS

HEAD BOLT-INFORMATION CHART

Length w/ Washer	Washer Thickness	Head Bolt w/Washer	Washers Only
1.690"	.250"	93-3028	50-7091
1.840"	.150"	93-3027	50-0418-S
1.920"	.250"	93-3036	50-7091
2.070"	.150"	93-3031	50-0418-S
2.220"	.250"	93-3038	50-7091
.370"	.150"	93-3032	50-0418-S
.134"	.250"	93-3029	50-7091
.284"	.150"	93-3030	50-0418-S
.501"	.250"	93-3037*	50-7091
.651"	.150"	93-3033*	50-0418-S



HEAD BOLT WASHERS

Thickness	Part #
.150"	50-0418-S
.250"	50-7091

HEAD BOLTS FOR HARLEY-DAVIDSON® TWIN CAM 88® AND TWIN CAM 96™ ENGINES

Engine Displacement	Stroke	Cylinder Length	Cylinder Head	Short Bolt w/Washer	Long Bolt w/Wasi	her	Head Bolt Kit	
00 05		4.025	Stock HD®	93-3031	93-3030	\$16.95	93-3014	
88", 95"	4"	4.935"	S&S®	_	93-3030	\$16.95	93-3070	
100"	4"	4.850"	Stock HD®	93-3036	93-3030	\$16.95	93-3014	
100	4	4.030	S&S®	_	93-3029	\$16.95	_	
106" Stroker	41/ !!	4.025"	Stock HD®	93-3031	93-3030	\$16.95	93-3014	
100 Stroker	4½" 4.935"	4.933	S&S®	_	93-3030	\$16.95	93-3070	
1071	41/4" 4.975"		Stock HD®	93-3031	93-3037	\$16.95	93-3012	
107"		4.9/5"	S&S®	_	93-3030	\$16.95	93-3070	
111"	41/8"	4.763"	Stock HD®	93-3027	93-3030	\$16.95	93-3010	
111"	4/8	4./03	S&S®	_	93-3029	\$16.95	_	
116"	45%"	5.160"	Stock HD®	93-3038	93-3037	\$16.95	93-3016	
110	4%	5.100	S&S®	_	93-3037	\$16.95	93-3071	
117"		4 000"	Stock HD®	93-3031	93-3030	\$16.95	93-3014	
117" 43%" 4.888"	4.888	S&S®	_	93-3030	\$16.95	93-3070		
12411			F 012"	Stock HD®	93-3038	93-3037	\$16.95	93-3016
124" 45%	45/8"	5.013"	S&S®	_	93-3037	\$16.95	93-3071	

CALCULATING CUSTOM HEAD BOLT LENGTHS SEE INSTRUCTIONS ON PAGE 349





Dress up your engine with these magnetic chrome head bolt covers. Easy installation, no tools, no messy adhesives. A powerful magnet holds cover in place, yet allows easy removal. Chrome plated steel looks great on any engine, but is a must for polished engines. For S&S head bolts only.

CHROME HEAD BOLT COVERS

Set of 4 50-0333



WARNING: Cancer and Reproductive Harm

^{*}Drilled & tapped deeper to allow shortening for custom lengths.

DIE-CAST ROCKER COVERS

FITMENT

- All Twin Cam 88° big twins
 Sold as stock in 4½" bore S&S engines

FEATURES AND BENEFITS

- Special rocker arm supports are included
- S&S rocker covers are finished with show-quality chrome
- Installation on stock and most comparable sized engines can be performed without removing the engine from the frame
- Clearanced to permit valve lifts up to .640" using S&S valve spring packages and stock rocker arms or S&S roller rocker arms
- S&S rocker covers accept valve springs up to 1.660" O.D. without modification
- Exclusive one way valve built into the rocker cover gasket to control oil carry over

KIT CONTENTS

- Front and rear covers
- All necessary gaskets and o-rings
- Mounting hardware



DIE-CAST ROCKER COVER KIT[±]

Description	Part #
Gloss Black	900-0937
Chrome USA ₃	90-4110

*WARNING: Cancer and Reproductive Harm

ANY JOB IS EASY WITH THE RIGHT TOOLS S&S ROCKER COVER WRENCH SET. SEE PAGE 329

REPLACEMENT PARTS: SEE PAGE 225



If using valve spring packages with taller than stock installed height, some minor clearancing may be required.

Cylinder heads must be set up correctly for high lift cams, and it remains the builder's responsibility to confirm all clearances.

In most instances, only minor clearancing is required to use S&S rocker covers with valve springs larger than 1.660" O.D.

S&S® rocker covers are required if S&S cylinder heads are used with S&S electric compression releases.

MANIFOLDS FOR CARBURETED BIG TWIN ENGINES

FITMENT

• 1999-'06 big twins

FEATURES AND BENEFITS

- Fits stock or S&S heads
- Fits stock or engines with taller cylinders



S&S manifolds require S&S style manifold o-rings.

S&S style o-rings must be used with these manifolds. S&S o-rings are slightly thinner to accommodate the larger S&S port diameter. Use of stock o-rings may cause damage. See page 211.



Manifold for S&S carburetors

MANIFOLDS FOR 1999-2005 BIG TWIN ENGINES (REQUIRING MAP SENSOR* MACHINING)

Engine Style and Displacement	Cylinder Length	Manifold Size	Super E	Super G
**88", 95" & 106" & S&S T-Series Engines	4.937"	410	160-1718	16-2588
Stock 2006 models	4.937"	405	160-1717	16-2587
**111" & S&S T-Series 111" Engines	4.763"	398	160-4487	16-2604
117" & S&S117" Hot Set Up Kits	4.888"	408	_	16-2603
**124" & S&S T-Series 124" Engines	5.013"	417	_	16-2598



^{**}Some S&S heads have additional material on the manifold surface to allow the use of a stock length manifold (410) on a 99-06 111" and 124" engine. If you are not sure which manifold should be ordered, check fitment with the stock manifold first.



Manifold for CV carburetor

CV MANIFOLDS — 1999-2005 BIG TWIN

Style/Displacement	(mm)	Manifold Size	Part#
88", 95", 106" Twin Cam 88	40-45mm	410	160-1722
96 stock	48mm	410	160-0001A
Special order	Specify	_	169-1725A*





16-0241

U-RINGS FOR CONSTANT VELOCITY CARBS

Size	Part#		
40-42mm	16-0242 (27002-89		
44-48mm	16-0241		





REPLACEMENT PARTS FOR MANIFOLDS

NET ENCEMENT I ANTISTON MARKET GEDS				
Description	Part #			
Manifold Fitting VOES Rubber Cap ¾6" I.D. x ¾6" O.D. x ½"	50-8372			
Manifold Vacuum Fitting	16-0136-S			

CV MANIFOLDS — 2006 & UP BIG TWIN

Style/Displacement	(mm)	Manifold Size	Part #
96 stock	40-45mm	405	160-1721
96 stock	48mm	405	160-0002A
Special order	Specify	_	169-1725A

MANIFOLDS FOR SINGLE BORE EFI BIG TWIN ENGINES

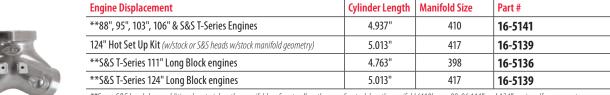
FITMENT

- Stock height or taller than stock 1999-'05 bt (see page 105 for 2006 models)
- S&S 52mm or 58mm throttle bodies
- Stock or S&S heads
- S&S T-Series Long Block engines



S&S style o-rings must be used with these manifolds. S&S o-rings are slightly thinner to accommodate the larger S&S port diameter. Use of stock o-rings may cause damage.

MANIFOLDS FOR SINGLE BORE EFI 1999–'05 BIG TWINS



^{**}Some S&S heads have additional material on the manifold surface to allow the use of a stock length manifold (410) on a 99-06 111" and 124" engine. If you are not sure which manifold should be ordered, check fitment with the stock manifold first.



THROTTLE HOG CABLE OPERATED THROTTLE BODIES

S&S cable operated Throttle Hog Throttle bodies are available for 2002-'17 Harley-Davidson® big twins using cable operated throttles. Choose from 58mm, for stock or mildly built engines, or the whopping 66mm Throttle Hog for big inch engines. More Air, More Power!

FITMENT

- 2002—'05 Harley-Davidson EFI big twins with cable controlled throttles
- S&S EFI Hot Set Up Kit® installations and T-Series Long Block engines with cable controlled throttles

FEATURES & BENEFITS

- More air flow for improved performance
- S&S Stealth air cleaners kit, with the proper bore sizes, are available
- Works with all air cleaner kits designed for throttle by wire engines with stock breather system
- One-piece design for easy installation and stock appearance
 - Compatible with stock sensors, fuel rail, and throttle cables
 - Black powder coat finish matches stock
- Sealed, stainless steel throttle shaft with dual roller bearings for smooth operation and no air leaks
- Kit includes hardened steel flanges and seals
- No stock throttle body exchange required!

THROTTLE HOG CABLE OPERATED THROTTLE BODIES FOR 2002-2005 BT

Year	Size (mm)	Engine Fitment	Manifold Size	Part #
		97", 98" & S&S T-Series Engines**(Engines produced after 2013)	410	170-0337
		S&S T-Series 111" Engines**	398	170-0339
	58	S&S 117" Hot Set Up Kits	408	170-0340
2002–2005 bt	2002 2005 h	S&S T-Series 124" Engines**	417	170-0338
2002–2003 DL		97", 98" & S&S T-Series Engines**(Engines produced after 2013)	410	170-0342
	66	S&S T-Series 111" Engines**	398	170-0344
	66	S&S 117" Hot Set Up Kits	408	170-0343
		S&S T-Series 124" Engines**	417	170-0341

^{**}Some S&S heads have additional material on the manifold surface to allow the use of a stock length manifold (405) on a 124" engine.

If you are not sure which manifold should be rdered, check fitment with the stock manifold first.

Cylinder heads on T-Series long block engines are 1999-'05 style. Owners of 2006 models will need to purchase a set of 1999-'05 style, offset intake flanges such as S&S #106-3516.

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MAKE MORE POWER!

S&S AIR CLEANER KITS

See Page 156

REPLACEMENT FLANGE KITS

2002-2005 bt......**160-0175**



52MM: Offering a 30% larger cross sectional area than stock throttle bodies, the S&S 52mm bore throttle body flows more than enough air for all but the most demanding street engines.

58MM: In response to constant requests for something bigger, S&S also offers a huge 58mm bore throttle body! Strictly for large displacement competition engines, this throttle body allows your engine to breathe easily and make more power!

FITMENT

• 1999—'16 big twins (except 2008-up touring models with electronic throttle control)

FEATURES AND BENEFITS

- Excellent performance
- Recommended tuning products:
 - S&S VF
 - Cruise control compatible with no extra bracket

KIT CONTENTS

 Throttle body assembly, Fuel injectors, Fuel rail, Harness adaptors, All necessary hardware, gaskets, and hoses

REPLACEMENT PARTS: SEE PAGE 236



Seeing is believing. It's easy to see the differences in the bore sizes of a stock Harley-Davidson® throttle body and the S&S® 52mm or 58mm throttle bodies. How big do you want to go?

NEW & IMPROVED!

CABLE-OPERATED THROTTLE HOGS PAGE 197

MAKE MORE POWER!

S&S® STEALTH AIR CLEANERS ON PAGE 156
S&S AIR CLEANER KITS FOR ON PAGE 159



SINGLE BORE EFI THROTTLE BODY/FUEL RAIL KITS

Fitment	52mm	58mm
2002–'05 EFI big twin & 2001 Softail models	17-5067	106-4407
2006—'16 EFI big twin*	17-5070	106-4408

*except 2008—up touring models with electronic throttle control.

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If you plan to use another programmable fuel injection module, it is best to consult the manufacturer to be certain that it is compatible with the S&S single bore system and has enough tuning capability for your engine configuration.

Installation of S&S throttle body on 1995–'01 bikes requires S&S ECU. Single bore throttle bodies are not compatible with stock Magneti Marelli® ECU

BLACK SUPER E & G CARBURETORS

FEATURES AND BENEFITS

- Exclusive black coating heat and chemical resistant
- Offered in standard venturi or increased venturi diameter specially machined for 7% more flow

BLACK CARBURETORS FOR 1984–2005 BIG TWINS

Fitment	Description	Part #
Increased venturi diameter	Super E Carb	110-0099
(7% more flow)	Super G Carb	110-0100
Standard venturi diameter	Super E Carb	110-0133
	Super G Carb	110-0138

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These black carb kits do not include air cleaners.

Air cleaner options are available starting on page 156.

Manifolds are required. See page 196.

SUPER E & G COMPLETE CARBURETOR KITS

FITMENT

- 1999–'06 Twin Cam 88® engines
- S&S carbureted engines
- Custom v-twin applications

FEATURES AND BENEFITS

- Four fuel delivery ports Better throttle response
- 0-ring sealed idle mixture screw
- Increased air flow for more power
- Adjustable accelerator pump for quick throttle response and easy starting
- Utilization of the factory dual cable system ensures safe operation
- Direct replacement and high quality fit and finish less down time and better performance
- Variable position enrichment starting system

SUPER E & G COMPLETE CARBURETOR KITS

Fitment	Super E	Super G
1999–'05 big twin	11-0450	11-0451
2006 big twin	106-0874	106-0875

SUPER E & G CARBURETOR ONLY

Fitment	Super E	Super G
All Years & Models	11-0420	11-0421

S&S® does not recommend polishing or chrome plating Super E & G carbs. Our repair department has seen many carbs with plugged passages due to polishing compounds, and some carbs that have been destroyed because the polishing or chrome plating had altered critical machined surfaces.

Recommended for closed circuit use only—S&S Super E & G carbs shown are not approved for use on motor vehicles operated on California public highways, or in other states where similar pollution laws may apply. The user shall determine the suitability of the product for his or her use and shall assume all risk and liability in connection therewith.

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KIT CONTENTS

- Super E or G carburetor
- S&S intake manifold
- Classic Teardrop air cleaner kit
- Mounting hardware
- Gaskets, seals and hoses
- Instructions







As the throttle plate opens, it exposes more of these holes to engine vacuum and delivers more fuel as rpm increases. This o-ring around the idle mixture screw not only eliminates potential air leaks, but helps keep the screw from vibrating out of adjustment. "Made in USA" cast into carb body identifies this as a new style carb.

REPLACEMENT PARTS: SEE PAGE 232

Optional cruise control adapter kits allows riders to keep factory cruise feature on 1999-'06 models

CRUISE CONTROL ADAPTER KIT

Fitment	Part #
1999-'06 bt	11-2927

TWO CABLE THROTTLE ASSEMBLIES

The S&S two cable throttle assemblies are high quality "pull open — pull close" type throttles designed for use on any two cable carburetor installations on bikes with 1" O.D. handlebars. A special soft plastic material used to mold the grips makes them look and feel exactly like stock grips. There are four different assemblies available to make installation on most chassis easy.

TWO CABLE THROTTLE REQUIRED

S&S Super E and G carburetors require the use of a two cable, pull open—pull closed throttle assembly. Any chassis including 1980 and earlier stock models equipped with a single cable throttle mechanism requires conversion to a two cable, pull open—pull closed type. S&S offers high quality two cable throttle assemblies for this purpose. Stock big twin models from 1981 to present have a two cable throttle and should not require changing. Super E and G Carb kits for 1990 and later models come with the new longer throttle cable guide bracket which allows the use of the stock CV style throttle cables.





The chart on this page is used only when using throttle cable bracket part #11-2339. This bracket is standard on all S&S Super E & G carburetor kits for big twins 1989 and earlier and all kits for Harley-Davidson® Sportster® models with the exception of the kit for 2004-'05 models. Carburetor kits for 1990 and later big twin models come with the longer cable bracket part #11-2338 for use with stock CV throttle cables. Super E and G carburetors ordered for big twin models 1981 and later are being shipped with the correct throttle cable bracket to fit the stock cables. Big twin carbs that are not year specific will be shipped with both cable brackets. All Sportster models 1988-'03 will still require conversion to butterfly style cables.

THROTTLE CABLE APPLICATION CHART

Application	Fastening Method	Length Total Housing	Length Vinyl Housing	Open Side	Close Side
1996—Up Softai®l (FXSTS, FXSTC, FLSTC, FLSTF) 1996—Up Dyna®	Snap-in	39"	35"	19-0438	19-0439
1996—Up All FLT models	Snap-in	48"	44"	19-0464	19-0465
1996—Up custom application	Snap-in	42"	38"	19-0440	19-0441

^{*1998} and later required Harley-Davidson® throttle assembly #71831-96

REPLACEMENT PARTS

Description	Part #
S&S Universal Throttle Cable	106-3520
Throttle Grip Clamp Set 1985—'95	106-3519
Top Throttle Grip Clamp only	19-0222
Bottom Throttle Grip Clamp only	19-0220
Throttle Grip Clamp Screw (Fits S&S throttle assemblies: Part #19-0448, #19-0449, #19-0482, #19-0450, , #19-0229)	50-0043
Throttle Grip Set	106-3521
Right Hand Grip only	19-0225 🖜
Left Hand Grip only	19-0226
Cable Adjuster (Fits S&S throttle assembly part #19-0229)	19-0223
Cable Adjuster Jam Nut (Fits S&S throttle assembly part #19-0229)	19-0227
Handlebar Spacing Sleeve 4" x 1" 0.D.—converts %" handlebars to 1" 0.D.	19-0235 🗫



^{**1980} and earlier must be converted to dual cable throttle assembly.

JETS & CARB REBUILD KITS FOR S&S SUPER E & G CARBURETORS

For those who need to rejet their carburetor because of engine modifications, exhaust modifications, or changes in altitude, we have extra jet kits available which are designed to cover most jetting situations.

DEALER JET KITS[±]

Description	Part #
S&S Carb Parts Kit (Contains needed parts to maintain S&S Super E and G carburetors)	11-3103
S&S Jet Kit (Includes 3 each of all intermediate jets and 5 each of all main jets, plus a main jet tool)	11-3102

**WARNING: Cancer and Reproductive Harm



JET PACKS[±]

Description	Part #	
Low Range Jet Pack — For jetting most stock and moderate performance engines.		
Includes one each intermediate jets (.025", .026", .028", .0295") one each main jets (.062", .064", .066", .068", .070", .072", .074").	11-7270	
High Range let Pack — For jetting some stock and all performance engines.		

Thigh hange set rack — For jetting some stock and an performance engines.

Includes one each intermediate jets (.0295", .031", .032", .033") and one each main jets (.072", .074", .076", .078", .080", .082", .084").

11-7271

Master Jet Pack — For jetting all Super B, E, and G equipped engines.

Includes one each intermediate jets (.025", .0265", .028", .0295", .031", .032", .033") and one each main jets (.062", .064", .066", .068", .070", .072", .074", .076", .078", .080", .082", .084").

11-7272

± WARNING: Cancer and Reproductive Harm



INTERMEDIATE JETS - SERIES #94 INDIVIDUAL SELECTION*

Size	QTY	Part #	MSRP	Size	QTY	Part #
.025	each	11-0250	\$11.95	.032	each	11-0320
.025	3 pack	11-7107	\$28.95	.032	3 pack	11-7112
.0265	each	11-0265	\$11.95	.033	each	11-0330
.0205	3 pack	11-7108	\$28.95	.055	3 pack	11-7113
.028	each	11-0280	\$11.95	026	each	11-0360
.020	3 pack	11-7109	\$28.95	.036	3 pack	11-7114
.0295	each	11-0295	\$11.95	040	each	11-0400
.0295	3 pack	11-7110	\$28.95	.040	3 pack	11-7115
.031	each	11-0310	\$11.95	Blank	Blank each	11-0000
.051	3 pack	11-7111	\$28.95			11-0000

**WARNING: Cancer and Reproductive Harm



106-3517[±]

Early Series #94 gas jets were stamped with single digit numbers. Conversions for these numbers are:

illibers are.			
1		4	033"
2	028"	5	036"
3	031"	6	040"



No returns or exchanges on jets.



.078

5 nack

MAIN JETS - SERIES #72 INDIVIDUAL SIZE SELECTION* Part # MSRP Size OTY Size **OTY** Part # 11-4040 \$10.95 11-4080 each each .040 .080 \$39.95 11-7220 11-7240 5 pack 5 pack each 11-4042 \$10.95 each 11-4082 .082 .042 11-7221 \$39.95 5 pack 5 pack 11-7241 11-4044 \$10.95 11-4084 each each .044 .084 5 pack 11-7222 \$39.95 5 pack 11-7242 11-4046 \$10.95 11-4086 each each .046 .086 11-7223 \$39.95 5 pack 5 pack 11-7243 \$10.95 11-4048 each each 11-4088 .088 .048 \$39.95 11-7224 11-7244 5 pack 5 pack 11-4050 \$10.95 11-4090 each .050 .090 \$39.95 11-7225 11-7245 5 pack 5 pack 11-4052 \$10.95 each each 11-4092 .052 .092 11-7226 \$39.95 11-7246 5 pack 5 pack \$10.95 each 11-4054 each 11-4094 .054 .094 \$39.95 11-7227 5 pack 11-7247 5 pack 11-4056 \$10.95 each 11-4096 each .056 .096 11-7228 \$39.95 11-7248 5 pack 5 pack 11-4058 \$10.95 each each 11-4098 .058 .098 \$39.95 11-7229 5 pack 5 pack 11-7249 \$10.95 11-4060 each 11-4100 each .060 .100 \$39.95 11-7230 11-7250 5 pack 5 pack \$10.95 each 11-4062 each 11-4102 .102 .062 11-7231 \$39.95 5 pack 5 pack 11-7251 \$10.95 11-4064 11-4104 each each .064 .104 \$39.95 5 nack 11-7232 5 pack 11-7252 11-4066 \$10.95 .106 11-4106 .066 each each 11-4070 \$10.95 each each 11-4110 .070 .110 11-7235 \$39.95 11-7255 5 pack 5 pack 11-4072 \$10.95 11-4115 each each .072 .115 11-7236 \$39.95 11-7256 5 pack 5 pack 11-4074 \$10.95 each each 11-4120 .074 .120 11-7237 \$39.95 11-7257 5 pack 11-4076 \$10.95 each .076 11-7238 \$39.95 5 nack *WARNING: Cancer and Reproductive \$10.95 11-4078 Harm each

MAIN JET AIR BLEED KIT± (One Jet Each Size)

11-7239

\$39.95

Sizes	Part#
.042"060"	106-3517
.084"120"	106-3518

^{**}WARNING: Cancer and Reproductive Harm

S&S® CARBURETOR REBUILD KITS

To insure that you continue to get the utmost in performance from your S&S carburetor, we have put together a series of rebuild kits that are designed to provide the proper parts to return a worn carburetor to top shape. We have assembled different types of kits to cover the different degrees of rebuild necessary.

MASTER REBUILD KITS

Master rebuild kits contain a body rebuild kit, accelerator pump rebuild kit (Super E and G only), all new fasteners, springs, idle mixture screw, seat, and needle assembly. Everything needed to completely rebuild one carburetor.

MASTER REBUILD KIT*

Description	Part #
Super E	11-2923
Super G	11-2924

**WARNING: Cancer and Reproductive Harm



BODY REBUILD KITS

Body rebuild kits for Super E and G carbs also contain throttle shaft nuts, nylon washers, accelerator pump o-ring, and accelerator pump boot. Body rebuild kits for Super E and G carbs do not contain throttle shaft bushings since these carbs have stainless steel throttle shaft bushings already installed.

BODY REBUILD KIT±

Description	Part #
Super E	11-2906
Super G	11-2907





BASIC REBUILD KIT

A gasket and seal kit for low mileage Super E & G carbs. Perfect to reassemble carbs taken apart for inspection and cleaning.

BASIC REBUILD KIT[±]

Description	Part #	
Super E & G	110-0067	

± ★ WARNING: Cancer and Reproductive Harm

ACCELERATOR PUMP REBUILD KITS

Accelerator pump rebuild kits contain diaphragm, diaphragm spring, check balls, check ball spring, pump pushrod, and required hardware and o-rings.

ACCELERATOR PUMP REBUILD KIT

Description	Part#
Super E & G	11-2918



UNIVERSAL WIRING HARNESS FOR CUSTOM BIKES AND RACING APPLICATIONS

FITMENT

- Custom and racing v-twin applications using Delphi® style EFI module
- Easy replacement for engine sub harness on 2002 through 2005 FL models
- 1995-'05 big twins Useful for carb to Delphi EFI and Magneti Marelli® to Delphi EFI conversions
- Great for S&S X-Wedge® engines

FEATURES AND BENEFITS

- Simple electrical hook up of all connections required to operate engines with Delphi® style FFI
- All cables are terminated with the correct factory crimped connectors
- Works the S&S, stock and most 36 pin aftermarket Delphi style EFI modules
- Compatible with S&S throttle bodies, as well as stock and most aftermarket throttle bodies
- Replaces stock engine sub-harness in 2002-'05 FL models, simplifies carb to EFI conversions



UNIVERSAL WIRING HARNESS

Description	Part #
For Custom and Racing Applications	550-0264

COMPRESSION RELEASES

FITMENT

• S&S cylinder heads for big twin

OPTIONS

MANUAL RELEASE:

Activated by a cable similar to a choke control, this slick system can be used with any style rocker cover.

ELECTRIC RELEASE:

Solenoid operated, this system automatically opens and closes when the starter button is pressed and released. Convenient and simple, this is the best setup for big displacement high compression bikes. Requires S&S die cast rocker covers.

COMPRESSION RELEASE KITS

Description	Part #
Electric	90-4915

TOOLS AND ACCESSORIES

Description	Part #
S&S Two-Piece Socket Kit: Allows in-frame installation of S&S compression releases and protects wiring from damage during installation.	53-0045
S&S Compression Release Hole Plug	90-4916

REPLACEMENT PARTS

Description	Part #
Silicone Solenoid Caps	55-1009
Wiring Harness USA _{2,3}	55-1010
Electric Compression Release Assembly (USA)2,3	90-4914



OTES

S&S rocker covers must be used with electric compression releases due to clearance requirements for the solenoids.

Rocker covers must be removed when installing S&S® compression releases. If lack of frame clearance prevents removal of rocker covers, engine must be removed from frame for compression release installation.

In most cases, S&S compression releases can be installed while the engine is in the frame with the special S&S two-piece socket kit, part #53-0045.

If cylinder heads are machined for S&S compression releases, but compression releases are not used, special plug part #90-4916 (two required) must be installed to seal the machined hole.

Stock cylinder heads cannot be machined for S&S compression releases because there is not enough material in critical areas.

VARIABLE FUEL INJECTION MODULES (VFI)

FEATURES AND BENEFITS

- Directly replaces stock Harley-Davidson® fuel injection modules plugs directly into stock wiring harness
- Includés ProTune II
- software/protune-ii
- Three stage engine overheat protection helps prevent possible engine damage caused by improper modifications to fuel maps
- Altitude compensation automatically adjusts for altitude variations
- Live tuning allows manual changes to maps while the engine is running
- Self diagnostics and actuator test functions help tuning and verify proper installation/operation
- Engine light can be programmed to function as a shift light
- Closed loop capable
- Knock sensing ignition control (USB Delphi® style unit only)
- Optional closed loop sensor kit extend module capabilities
- Speedometer calibration function for 2004-up Harley-Davidson® models (does not require installation of separate speedometer calibrator)

CLOSED LOOP CAPABILITY

When equipped with a dual closed loop sensor kit and running in closed loop mode, VFI tuning becomes a breeze! S&S supplies base maps for several displacement groups, creating a starting point to get bikes up and running. Utilizing dual oxygen sensors (sold separately) placed in the exhaust, the S&S closed loop system modifies the base fuel map to meet the specific requirements of your engine!

- Automatic tuning on the street or on the dyno
- Each cylinder is tuned individually
- Fuel map changes are saved in the module and can be merged with the pre-loaded base map
- Works with stock oxygen sensors used on late model Harley-Davidson® motorcycles

Closed loop VFI can also automatically compensate fuel delivery for modifications creating up to a 20 hp gain, such as changes in:

- Displacement
- Cams
- Exhaust
- · Head porting or installation of aftermarket heads

DELPHI® STYLE S&S VFI MODULE

FITMENT

• Delphi® ECU equipped big twins

KIT CONTENTS

- Delphi® style S&S VFI module
- ProTune II software
- USB port cover kit (part #55-5090 only)
- Installation instructions



The Barometric Sensor Relocation kit (part #55-1599) is required for any complete S&S T-series engine installed in a 1995—2001 EFI touring chassis or any engine used in these applications using the S&S T-series oil pump where the stock cam position sensor cannot be used.

All current production S&S modules are closed loop compatible, and all older S&S modules can be updated with current calibration by simply

Please note that maps created for older versions of the VFI software are not compatible with the new closed loop software, however they can be converted to closed loop if desired.

S&S VFI systems installed on 2004—up Harley-Davidson® models incorporate a speedometer calibration feature.



55-5090

DELPHI® STYLE S&S VFI MODULE

Fitment/Description	Part#
VFI Module for 2001—'11 bt (except 2008-up touring and 2011 Softail®)	55-5090*
S&S Delphi Style VFI Closed Loop Sensor Kit USA	106-2066

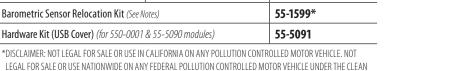
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REPLACEMENT PARTS FOR S&S® VFI MODULES

REPLACEMENT PARTS FOR S&S® VFI MODULES

Description		Part#
S&S VFI Closed Loop Sensor Kit	Delphi® Style USA	106-2066
Service Kit, O ₂ Sensor USA		106-2061
Service Kit, DTM Pin		55-1521
Service Kit, Oxygen Sensor Boss 🕶	JSA;	55-6071-S
Service Kit, Subharness	Delphi® Style	55-1595
Barometric Sensor Relocation Kit (S	ee Notes)	55-1599*
Hardware Kit (USB Cover) (for 550-0	001 & 55-5090 modules)	55-5091





106-2066

HIGH OUTPUT COILS

HIGH OUTPUT COILS

S&S High Output 3.0Ω Single Fire Coil		
The perfect complement for S&S IST ignition systems. This single fire coil is actually two separate coils in a single package. Coil impedance is 3Ω per coil.	55-1571	
S&S High Output 0.5Ω Single Fire Coil	55-1576	
High output 0.5 Ω single fire coil for S&S IST ignition.	33-13/0	





55-1576

TRANSMISSION TOP COVER

CHROME TRANSMISSION TOP COVER±

Description	Part #
Billet for 1999–'05 Dyna® Models	106-3886

This cover is required for proper oil line connection in 1999-'05 Dyna models when installing an S&S T124 engine or when installing S&S replacement crankcases. This top cover may also be used as stock replacement for 1999-'05 Dyna models.

**WARNING: Cancer and Reproductive Harm



INNER PRIMARY BEARING RACE

FITMENT

• All 1991—'06 big twins (except '06 Dyna®)

FEATURES AND BENEFITS

- Will not "walk" on transmission mainshaft
- Simple to install
- Prevents costly damage to mainshaft seal, output gear & output gear bearing

INNER PRIMARY BEARING RACE

Fitment	Part#
All 1991–'06 big twins (except '06 Dyna®)	56-5089

ANY JOB IS EASY WITH THE RIGHT TOOLS: S&S INNER BEARING RACE PULLER, SEE PAGE 328

VARIABLE PRESSURE CLUTCH

The VP clutch is the most cost effective kit for upgrading your HD® stock clutch without any modifications. Up to 40% more pressure for stronger clutch engagement.

FEATURES AND BENEFITS

- Works like a lock up clutch
- Increased torque capacity: strength of engagement increases with RPM
- 10 minute installation
- Fits behind a stock derby cover and primary cove—No modification required
- Can be used with cable and hydraulic clutch controls

Does not fit: 2013 and later CVO™ and Tri Glide®, 2015 and later Ultra Limited Low and Electra Glide Classic Low Models with new HD® Assist and Slipper Clutch: 3 Stud Clutch Hub

Non-stock derby cover (including any special or 2003 anniversary cover) and 3 hole derby covers may require a derby



560-0242



Centrifugal force makes more clamping force. Regular clutches have static pressure only with clutch springs. The Lock up clutch has two different types of pressure. One is a Static Pressure, and another is a Centrifugal Force by Lock-up as an additional pressure.

VARIABLE PRESSURE CLUTCH

Description	Part#
1998—up big twins with 6 Stud Clutch Hub	560-0242

HEAVY DUTY DIAPHRAGM SPRING

FITMENT

• 1998-up big twin models

FEATURES AND BENEFITS

- 380 lbs pressure, 25% stronger than stock
- Same pressure as Screamin' Eagle® heavy-duty spring
- Compatible with S&S VP and stock clutches

HEAVY DUTY DIAPHRAGM SPRING

Description	Part#	
1998—up big twins	560-0244	



560-0244

GATES® HIGH STRENGTH FINAL DRIVE BELTS

S&S final drive belts by Gates are available with 14mm pitch in 1½" and 1½" widths. See the chart and match the width and number of teeth required for your vehicle. You can find this information in the vehicle service manual.



SECONDARY DRIVE BELTS (14MM PITCH)

Teeth	11/8" Wide	1½" Wide
125	106-0357	_
126	_	106-0348
127	_	106-0349
128	106-0358	106-0350
130	106-0359	106-0351
132	106-0360	106-0352
133	106-0361	106-0353
135	106-0362	106-0354
136	_	106-0355
139	106-0363	106-0356
149	106-1338	106-2695
156	-	106-2827

ATTENTION CUSTOM BIKE MANUFACTURERS!

SPECIAL ORDER BELTS FROM S&S® AND GATES®

Special belt sizes, private brand labeling, and assistance with belt drive design, are available to custom performance OEM's and aftermarket bike builders, through S&S. These products and services are available for licensed motorcycle manufacturers only, and a minimum order quantity may be required.

Drive belts with your company name imprinted on them are a perfect way to show off your brand. Any belt size currently available in the S&S catalog, as well as the special ordered sizes, can be specially branded. Minimum order quantities would apply.

Whether you're designing a completely new chassis, or simply need a replacement belt, S&S can help you find the belt you're looking for. Through the combined efforts of Gates and S&S, S&S can now provide customers with the technical assistance they need for designing new secondary belt drive systems. In addition, S&S can help you determine required tooth count for your existing chassis design, based on the pulley center-to-center distances and pulley tooth counts.

All belts have a 14mm tooth pitch, and are made of the super strong Gates Carbon X3N material. Belts are available in three standard widths of 1.125", 1.5" and 1.181" (30mm), but can be special ordered in nearly any width for a nominal charge. If you want a belt with a special tooth count, they are also available (see the special order chart for availability).

Contact your S&S Customer Support Representative for more information.

BELTS AVAILABLE BY SPECIAL ORDER (14MM PITCH)			
Tooth Count	1.181" (30mm) Width* 1.25" Width		
125	•		
126	•	•	
127	•	•	
128	•		
130	•		
131	•	•	
132	•		
133	•		
135	•		
136	•	•	
137	•	•	
139	•		
140	•	•	
149	•		
150	•	•	
151	•	•	
152	•	•	
156	•		
*Minimum order requi	red: 1 181" (30mm) — 16 helts: 1 25" — 17	7 halts	

GASKETS

REBUILD GASKET KITS

FOR S&S® T-SERIES 1999-UP ENGINES AND HOT SET UP KIT®

1999–'06, 41⁄8", S&S base bolt pattern	106-0976
1999–'15, 41⁄8", Stock base bolt pattern	310-0335
1999—up T143 4.425" bore	310-0751

TOP END GASKET KIT FOR TWIN CAM 88° AND S&S ENGINES

3%" Stock Bolt Pattern	90-9504
43/8"	90-9511
4⅓", with S&S® bolt pattern	90-9506
41/8", with Stock Cases	90-9510
4"	90-9505

CYLINDER HEAD GASKET KITS T-SERIES 1999-UP

43/8" bore	900-0800
41/8", with S&S® bolt pattern	90-1910
41/8", with Stock bolt pattern	90-1914
4" with Stock bolt pattern	90-1913
37/8" & 3.927"	910-0465

^{*}DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on any EPA pollution controlled motor vehicle.

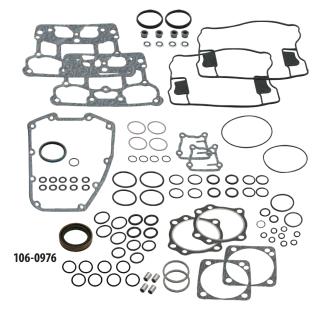
HEAD GASKETS T-SERIES 1999-UP

47/16"	.045"	Layered Steel	2 pack	900-0762
43/8"	.045"	Copper	2 pack	93-1081
41/8"	0.4211 6 1.11	each	93-1047-S	
478	.043"	Graphite	10 pack	93-1073
			each	93-1091-S
41/8" Stock Bolt Pattern	.043"	Layered Steel	2 pack	930-0102
	Stock Bolt I dite.		10 pack	93-1920
41/8" Stock Bolt Pattern	.030	Layered Steel	2 pack	900-0217
4"	0.42"		each	93-1043-S
4	.043"		10 pack	93-1058
4" Stock Bolt Pattern	0.45"	Layered Steel	2 pack	900-0822
4" Stock Bolt Pattern	.030"	Layered Steel	2 pack	900-0821*
3%" & 3.937"	.045"	Layered Steel	2 pack	900-0862
3¾" 16775-99B	.043"	Graphite	each	93-1045-S

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BASE GASKETS AND O-RINGS T-SERIES 1999-UP

4"	.018"	Graphite	each	93-1050-S	
	41/4" .018" Graphite 2 pac			each	93-1048-S
41/8"		2 pack	930-0101		
			10 pack	93-1074	
43/8"	.018"	Micropore	2 pack	93-1082	











4½" Stock Bolt Pattern .018"		Micropore each 2 pack 10 pack	each	93-1092-S
	.018"		2 pack	930-0101
			10 pack	93-1921
4.425"	.018"	Micropore	2 pack	900-0783
4"	.103"	Viton 0-ring	each	50-8049
3¾", 3¾", .103" Viton 0-ring	each	50-8048		
3.927"	vitoli 0-filig	VILOII O-IIIIG	CULII	11256

EXHAUST GASKETS

1984–'12 big twins	each	106-5029	
65324-83B, 65324-83A	10 pack	93-1072	







900-0338

CONTINUED - GASKETS

VALVE GUIDE SEALS

S&S® Heads with Powdered Metal Valve Guide	4 pack	900-0737
Valve Stem Oil Seal, Hat Style 18094-02	each	900-0590
Valve, Umbrella 26858-99	each	900-0495
For 1984—'02 big twin stock heads &	each	900-0338
S&S® prior to Jan. 2014	8 pack	90-2158
CNC Heads (2005—up bt)		106-5688

ROCKER BOX GASKET KITS AND INDIVIDUAL GASKETS

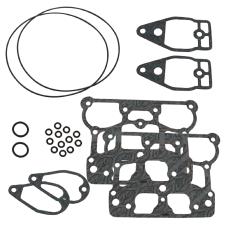
S&S BILLET (OBSOLETE)			
Gasket Kit		90-4073	
O-ring, (-114), .625" ID x .812" OD, Black, Viton® 11270		50-8033	
0-ring,(-268),9.483" ID x		50-8050	
Gasket, Breather Cover, Stock Pattern,1999—'10 17591-99, 17162-03, 17592-99		90-4077	
Gasket, Breather Baffle, Stock Pattern, 1999—'10 17162-03, 17592-99		90-4078	
	each	90-4071-S	
Gasket, bottom rocker cover, 41/8" 1984—up	2 pack	90-4071	
,,, ,,, ,, ,,	10 pack	90-4099	

DIE CAST ROCKER BOXES

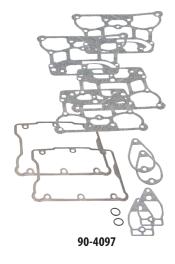
Gasket,Rckr Cvr,S&S® DieC,O-ring,1984—up		90-4079
476, 1704 up	10 pack	90-4099
Gasket, bottom rocker cover, 41/8", 1984—up	2 pack	90-4071
	each	90-4071-S
0-ring,(-223),1.625" ID x 1.875" OD,Vito		50-8044
Gasket set - rocker cover, cast		90-4111

STOCK ROCKER BOXES

Gasket kit for 1999—'06 bt (use w/S&S heads)		90-4097
Gasket kit for 1999–'06 bt (use w/Stock h	eads)	900-0534
O-ring, (-114), .625" ID x .812" OD, Black, Viton® 11270		50-8033
	each	90-4071-S
Gasket, bottom rocker cover, 41/8", 1984—up	2 pack	90-4071
1/0/1201 up	10 pack	90-4099
Gasket,Breather Cover,Stock Pattern, 1999–'10 17591-99, 17162-03, 17592-99		90-4077
Gasket,Breather Baffle,Stock Pattern, 1999—'10 17162-03, 17592-99		90-4078
Gasket,Rocker Cover,Steel, 1999—up bt	each	90-4096-S
Gasket,Rocker Cover,w/Stock Rocker	each	90-4124
Box, 1999—up bt	2 pack	90-4120
Filter, Breather 63815-99	each	900-0496

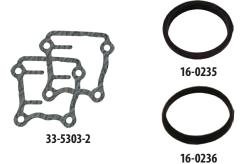


90-4073





31-2032-S



210 S&S Late Models 1999–up

CONTINUED-GASKETS

LOWER END GASKETS AND SEALS

For S&S Heads/Stock boxes	each	90-4124
	2 pack	90-4120
Gear Cover gasket 25244-99A	each	31-2032-S
Tappet Cover gasket 18635-998	each	33-5303-S
	2 pack	33-5303-2



PUSHROD O-RINGS

0-ring,Kit,Pushrod Cover,1984—'99 bt		93-4022
Top 0-ring 11293, 11157, 11101, 11190	each	50-8039
Middle 0-ring 11132A	each	50-8038
Bottom O-ring 11145A	each	50-8037
Sprocket Shaft seal 12068	Sprocket Shaft seal 12068	
S&S Oil pump seal kit		31-2097
Oil Pump Scavenge o-ring	each	50-8039
11293, 11157, 11101, 11190	Cucii	30 0037
Case alignment dowel o-ring	each	50-8034-S
26432-76A	2 pack	50-8034
	each	50-8270
Oil jet o-ring	5 pack	50-8275
Cam plate and oil line plate o-ring	Cam plate and oil line plate o-ring	
11301	euch	50-8066-S





CONTINUED - GASKETS

FUEL SYSTEM GASKETS

Manifold Seals		
S&S Manifold 0-Ring	each	16-0235
	10 pack	16-0243
Stock Manifold O-ring	each	16-0236
26995-86A, 26992-99, 26995-86B	10 pack	16-0244
Cap, rubber, manifold, fitting		50-8372

CLASSIC TEARDROP AIR CLEANER

Backplate gasket		each	106-1724
		10 pack	106-2328
Vent seal washers silicone coated steel 3/8"	1/"	each	50-7055
	72	10 pack	50-7057
	2/11	each	50-7054
	3/8	10 pack	50-7059

STEALTH AIR CLEANER

Backplate gasket			
Stock CV Carb & EFI Throttle Body,1991—up xl/bt (except Throttle by Wire) 29062-958		106-6022	
Super E/G	each	106-1724	
	10 pack	106-2328	
For Muscle air cleaner (includes lanyards).		170-0137	
Vent seal washers Nitrile Rubber	each	50-7054	
Coated, .380" x .880" x .024"	10 pack	50-7059	

SINGLE BORE TUNED INDUCTION

Backplate gasket

Gasket, Backplate - E/G/SBEFI	each	106-1724
	10 pack	106-2328
Gasket, S&S SBEFI 58mm		106-4662
Gasket, Stock carb/Throttle Body 29062-95B		106-6022
Adaptor plate gasket		17-1022
Adaptor plate bracket o-ring	each	50-0446









SINGLE BORE EFI THROTTLE BODY

Backplate gasket		
	each	106-1724
52mm	10 pack	106-2328
58mm	each	106-4662
O-ring, throttle body to manifold		50-7967-S
Air Temp Sensor gasket		16-5009-S
IAC o-ring		50-8149-S
Fuel injector o-ring top		50-8264-S
Fuel injector o-ring bottom		50-8265-S
Fuel rail inlet o-ring 27237-95	each	50-8137-S

CARBURETOR GASKETS (for Rebuild Kits, see page 202)

Bowl Gasket, Super E & G		11-2386	
Pump cap o-ring - (two required)		each	50-8012
		10 pack	50-8100
Idle Mixture Needle o-ring		each	500-0036
		10 pack	500-0148
Bellows Seal, Accelerator Pump		11-2266	
Accelerator pump diaphram		11-2282	
	Super E	each	50-8016
Manifold to carb/		10 pack	50-8094
throttle body o-rings		each	50-8015
Super G	10 pack	50-8093	
Seat and bowl plug o-ring		each	50-8009
		10 pack	50-8095

TRANSMISSION GASKETS

O-ring, (-114), .625" ID x .812" OD, Black, Viton® 11270	50-8033
O-ring,Quad Seal,(-031),1.734" X 1.875" 11165	50-8045
Seal,Transmission Output Shaft 2.255" x 3.388" x .250,1994—'99 bt 12067B	56-3033

PRIMARY GASKETS

Gasket, Primary Cover,	aach	56-4049
1990—'05 Softail® and Dyna® models	each	30-4049

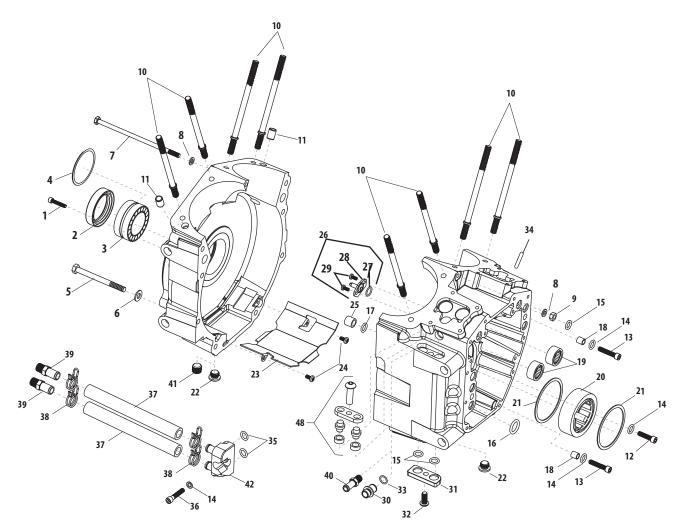


CRANKCASE REPLACEMENT PARTS FOR HARLEY-DAVIDSON® TWIN CAM 88® ENGINES

1.	Bolt, stator 10-24 x1" SHC - 4 required 2720	
1.	each	50-0044
	4 pack	
2.	Seal, sprocket shaft 12068.	
3.	Bearing, Timken® sprocket shaft 9028	
	USA _{1,2,3}	31-4013
4.	Timken Main Bearing Spacers	
	Fits 1¼" stock diameter shaft.	
	.0995"1005" 9124	31-4071
	.1015"1025" 9125	●31-40/2
	.1035"1045" <i>9126</i>	● ■31-40/3 व्यक्ति⇒21-4074
	.1075"1085" <i>9128</i>	231-40/4 231-4075
	.1195"1205" 9134	10−0 31-4076
5.	Bolt, case 5/16" –18 x 31/2" HHC – 8 required	G G31 4070
	Chrome (each)	50-0254-S±
	Zinc 3427 (each)	
6.	Washer, flat 5/16" x 11/16" x 1/16" - 8 required	
	Chrome (each)	
	Zinc 6320, 70907-07, 6016, 6702 (each)	50-7034
7.	Bolt center case 1/4" –28 x 51/2" HHC Grade 8	
	Chrome (each)	
•	Zinc (each)	50-0090
8.	Washer, flat, 1/4" x .474" x .050"	FO 740F C+
	Chrome (each)	
9.	Zinc (each)	50-7020
7.	Chrome (each)	50_5017_C±
	Zinc 7683 (each)	
10	Cylinder stud, S&S® Bolt Pattern – 8 required (each)	
10.	8 pack	△ 31-2340
	Cylinder stud, Stock Bolt Pattern – 8 required (each)	
11.	Dowel, cylinder deck – 2 required (4 pack)	
	Bolt, cam plate 1/4" –20 x 1" SHC – 4 required <i>852</i>	
	each	50-0084
13.	Bolt, cam plate 1/4" -20 x 11/4" SHC - 2 required 4740A, 3	
	each	50-0008
14.	Washer, flat ¼" chrome (each)	
	12 pack	50-7013
15.	O-ring, cam plate – 9 required 11301 (each)	50-8066-S
16.	O-ring, oil pump 11/16" I.D. x 15/16" O.D. x 1/8" CS 11293, 1	
17	each	50-8039
1/.	O-ring, case alignment, – 2 required %6" I.D. x 11/6" O.	
	each	
18	Dowel, cam plate – 2 required 16589-99A	
19.	Bearing, inner cam 9198	31-4080
20.	Bearing, pinion shaft — Fits all S&S & OEM 2000-'02(Balanced models only)
	I OEM 2003-up <i>24604-000</i>	
	Retaining ring, internal, spiraloc – 2 required	
	35114-02	50-8160-S
22.	Plug, magnetic drain	5A _{1,2,3} 50-8335
23.	Baffle plate	31-0119-S
	Screw 10-24 x 3/8" pan head - 2 required (each)	
25.	Dowel, case alignment - 2 required 16574-99A, 16573-83,	
	each	
	10 pack	50-8109

26. 27	Piston Oiler Jet Kit <i>includes #27 (1), #28 (1), #29 (2)</i>	310-0647
21.	each	
	Jet, Assembly, Piston Cooling, 1999-up bt (each)	
	Screw,Torx Pan,Tri-Lobe,8-32x3%",Zinc, 68042-99	50-0054-S
30.	Fitting, crankcase vent 1999-'00	
	2001-'06 (each)	
	Plate, oil line cover	
	BHSH CS 5/6" – 18 x 3/4" (10 pack)	
33.	10 pack	
34.	Pin, dowel 18535-99(each)	
	2 pack	
37. 38. 39. 40. 41. 42.	Bolt, ¼" -20 x ¾" SHCS 4069A (each) Hose, oil, inlet/outlet Spring clips Oil line fittings, inlet/outlet - 2 required Oil line fitting- vent Plug, sump 765 (each) Oil conduit block. Sensor,Kit,Crank Position,1984-2007 bt (N/S) 32707-01B, 32707-01C	50-8157 50-8156-S N/A N/A 50-8330 N/A
	RDWARE KITS Hardware Kit,Crankcase,Cam Plate Bolts,1999-up bt includes #12 (4), #13 (2), #14 (6)	31-0117
46.	Hardware Kit,Crankcase,O-rings,1999-up bt includes #15 (7),	#16 (1), #17 (2)
47.	Hardware Kit, Crankcase Baffle Plate, 1999-up bt includes #23	(1) and #24 (2)
48.	Hardware kit, oil line plugs	

(N/S) = Not Shown



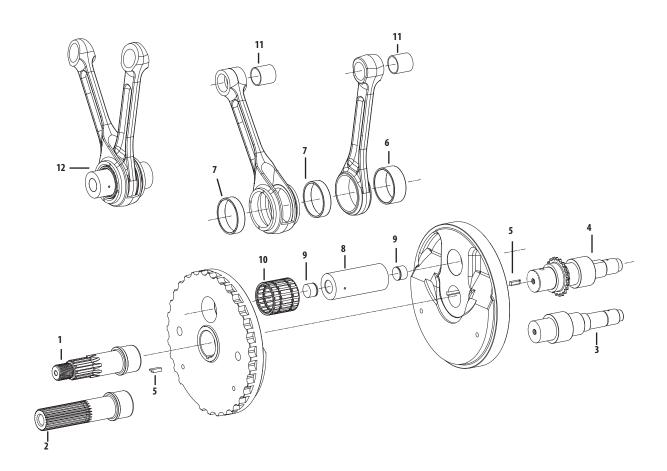
CRANKCASE BREATHER REED VALVE REPLACEMENT PARTS ON PAGE 240

3-PIFCF FLYWHFFI RFPI ACFMENT PARTS

J	6-PIEGE FLY WREEL REPLAGEMEN I PAR I 5
1.	Washer, Flywheel, Thrust, 1.25" x 1.83" x .136", Hardened Steel
2.	320-0198 Crankpin, Press-In, Straight, 1.671", 1999-Up bt (includes plugs) Standard
3.	Race, Inner, Left Main Bearing,
4.	1.25" x 1.65" x .713", Hardened Steel 340-0076 Race, Inner, Right Main Bearing,
	1.25" x 1.65" x 1.120", Hardened Steel 340-0077
5.	Connecting Rod, Set, Full Width Wristpin, 7.575", 120R 340-0062 Connecting Rod, Set, Full Width Wristpin, 7.667" 340-0060
	Connecting Rod, Set, Full Width Wristpin, 7.800", T143 340-0128
	Bearing, Set, Rod, Standard
7.	Plug, Drive, .8965" x .850", Steel, Fatigue Proof 2 pack
8.	Retaining Ring,External,Pinion Bearing,1.160" x 1.480" x .046",
9.	Carbon Steel, SAE 1060-109011177A

5-PIECE FLYWHEEL REPLACEMENT PARTS

1. 2. 3.	Sprocket Shaft, 1999–2006 bt (includes key #5)	33-2011
4.	Pinion Shaft, 2000–2012 w/ balancer (includes key #5)	N/A
5.	Key (each)	50-8227
6.	Front Rod Race, 1999–2012	34-4008
7.	Rear Rod Race	. USA: 34-4013
8.	Crankpin (std.)	
	+.001	
	+.002	340-0018
	+.003	340-0019
9.	Crankpin Plug (each)	106-5256
	2 pack	
10.	Race/Bearing Set	
	Wristpin Bushing, 1999–2012*bt Straight bushing	_
12.	Connecting Rod Set, 7.668" length 1999–2006 bt, straight wristpin ends	
	. 3 1	



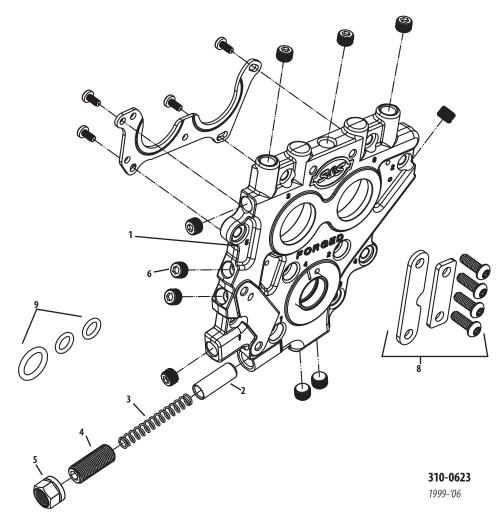
NOTES

S&S flywheels for Harley-Davidson® Twin Cam 88® and Twin Cam 96™ engines are pressed together as opposed to using the traditional tapered shafts and crankpin. Assembly and truing requires special equipment.

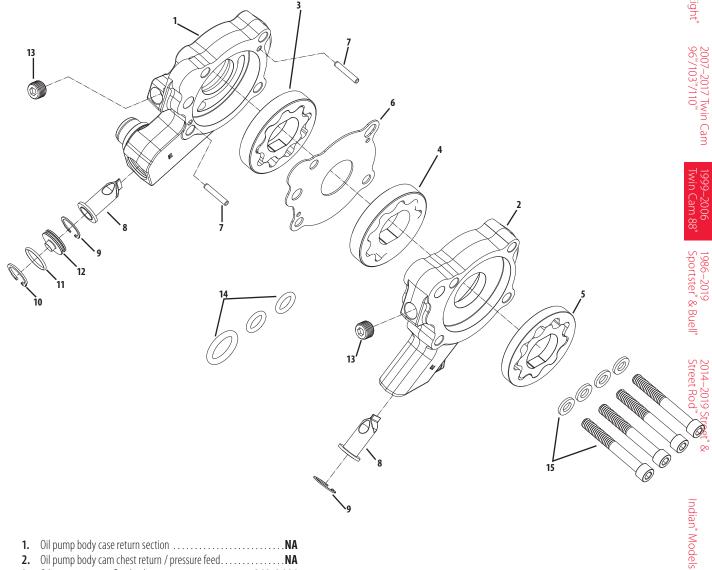


TC3 CAM PLATE REPLACEMENT PARTS

1.	Cam support plate	NA
	Pressure relief valve	
3.	Pressure relief spring	31-6018
	Pressure relief adjusting screw	
	Pressure relief adjusting screw lock nut	
	1/8" 27 taper pipe plug	
	Bearing retention plate kit	
	Hydraulic tensioner block off kit	
	O-ring kit	



TC3 OIL PUMP REPLACEMENT PARTS



1.	Oil pump body case return section	NA
2.	Oil pump body cam chest return / pressure feed	
3.	Oil pump rotor set, flywheel cavity return	
4.	Oil pump rotor set, cam chest cavity return	
5.	Oil pump rotor set, supply	
6.	Plate, divider	
7.	Dowel Pin, .125 x .750 Hardened Steel	500-0858
8.	Debris screen	310-0546
9.	Internal Retaining Ring, .625	500-0860
10.	Internal Retaining Ring, 17mm	
	0-ring, 1.5mm x 14mm, Viton (5 pack)	
	Oil pump return plug	
	Plug, Pipe 1/8" 27	
	0-ring kit	
	Screw, Kit, Oil Pump, 1999-Up BT	
	(1/4" 20 x 2" SHCS w/washers)	500-0327

OIL PUMP REPLACEMENT PARTS FOR HARLEY-DAVIDSON® TWIN CAM 88® ENGINES

1.	Cover, assembly, camchest	
	Chrome	106-3890±
2.	Cover plate	31-6507
3.	Bushing, cam support (each)	31-4087-5
4.	Nut, gear retainer, rear cam	31-6511-S
5.	0-ring, Viton (-220) (each)	50-8245-S
6.	Screw, SHC - 10-24 x 1" (each)	50-0044
7.	Alignment dowel (each)	50-8182-S
8.	Idler gear shaft (each)	31-2079-S
9.	Divider plate	31-6508
10.	Screw FHSC 10-24 x ½"	50-0312-S
11.	Gear, cam chest return	33-4291
12.	Gear assembly, pinion shaft	33-4170
13.	Gear, idler - (Includes item PN 33-4214 bushing)	33-4172
14.	Gear, cam drive	33-4292
15.	Gear, spacer	33-4171
16.	Thread adapter	31-2089-S
17.	Cam drive gear	
	(for reference only, not included in pump kit)	
18.	Body assembly	31-6505
19.	Spring, pressure control 26207-83 (each)	
	10 pack	31-6084
20.	Plunger, pressure control valve 26400-82, 26400-82B	
21.	Pressure control plug w/o-ring	50-8326
22.	Fitting, flywheel cavity return	50-8183
23.	Screw, SHC 8-32 x %"	50-0293-S
24.	O-ring, Viton 11301 (each)	50-8066-S
25.	Bushing, pinion shaft	31-4088-5
	Screw FHSC 10-24 x 3/4" (5 pack)	
27.	Screw FHSC 1/4"-20 x 2"	50-8163-S
28.	Screw,SHCS,1/4-20 x 1-1/2",Chrome,ASTM A574-92A .	50-0255-S [±]
29.	Screw,SHCS,1/4-20 x 1-1/4",Chrome,ASTM A574-92A	
30.	Washer,Flat,.260" x .425" x .060",Chrome,Steel	50-7017 [±]
31.	Gasket 25244-99A (each)	31-2032-S
32.	Dowel pin, 3/32" diameter x 1" (each)	50-8193-S
33.	Retaining ring.	N/A
	Bushing	
	0-ring 5/16" 0.D. x 1/16" Viton (-011)	50-8138-S
36.	0-ring (-209) Viton 11293, 11157, 11101, 11190	
	each	
	Washer, pinion gear	
	Screw, FHHC - 5/16"-18 x 3/4" G8 25566-06	
39.	Steel ball, 1/8" (each)	50-8092-S
40.	Pin dowel275" I.D. x .3745" O.D. x .397"	
	16589-99A	
	Viton o-ring (-207)	
	Viton o-ring (-225)	
	Viton o-ring (-16)	
44.	Screw, FLC ¼"–20 x 1¾" (N/S) 905 (each)	50-0334-S

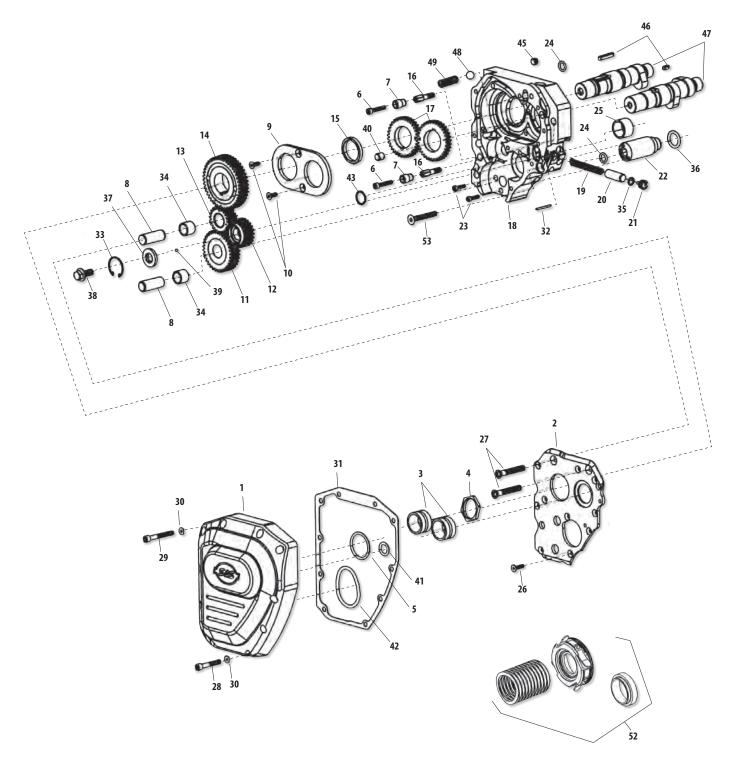
45. Pipe plug 1/8"–27 <i>each</i>) 50	
46. Key kit - cams	
47. Camshafts	
See Cam Selection Chart below.	
48. Ball, pressure relief valve 3/8" diameter 8866, 8873	
USA _{1,2,3} 5	0-8091
49. Spring, pressure relief valve	-8408-S
50. Seal rebuild kit (N/S) (<i>Includes #5, 24, 31, 36, 41, 42, 43</i>)	
	31-2097
51. Kit, cover screw (N/S) (includes #28 (7), #29 (3), #30 (10)	
	50-1035
52. Breather Valves (see page 172)	
53. Screw, SFH, 1/4-20 x 1-3/4", Black, Alloy Steel 50	-0334-S
(N/S) = Not Shown	

GEAR DRIVE CAMS FOR USE WITH S&S GEAR OIL PUMPS FOR 1999–'06 BIG TWIN (EXCEPT 2006 DYNA® MODELS)

Cam*	Easy Start Cams with Drive Gears
585GP	106-4771
635GPE	330-0405
640GP	106-4781
675GP	106-5215

^{*}See Cam listings on page 180 for further information on cam recommendations for different

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on any EPA pollution controlled motor vehicle.

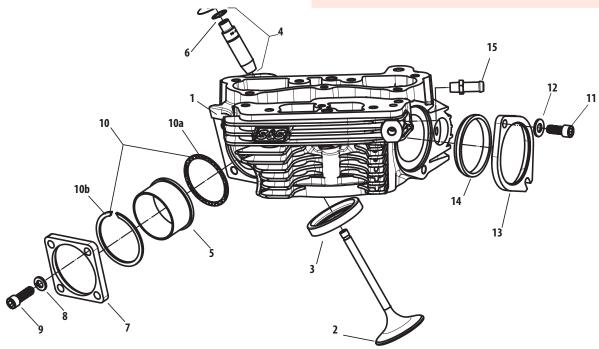


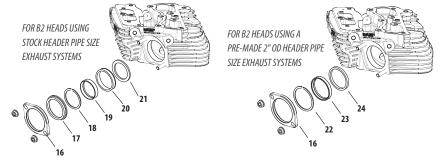
B2 CYLINDER HEADS REPLACEMENT PARTS FOR 1984—'17 BIG TWIN ENGINES (EXCEPT 2017 TOURING MODELS)

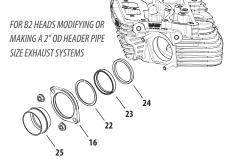
1.	Cylinder Head — (See page 191)		12. V
2.	Valve		13. N
	Intake, 2.200" Dia	90-2127	
	Exhaust, 1.800" Dia		
3.	Valve Seat		14.
	Exhaust, 1.800" Dia,	90-2126	
	Intake, 2.200" Dia,		15. F
4.	Valve Guide – Cast – Intake/Exhaust		16. E
	Std	106-2166	17. E
	+.030"		1
5.	Adaptor, Exhaust Flange		18. E
6.	Snap Ring		19. E
7.	Flange, Exhaust, Front/Rear		1
8.	Washer,Lock,.332" X .583" X .078"		20. P
9.	Screw, Sh, 5/16" -18 X 1" <i>3201WA, 2708</i>		21. E
10.	Gasket, Kit, Exhaust, B2 Heads, SA		22. F
	Kit Includes Two Fach:		23.
	A: Gasket, Exhaust Pipe (each)	93-1083-S	24. F
	6 pack		25. V
	B: Retaining Ring.		23. 1
11.	Screw, SH, %6-18 X ¾" 3275		
• • • •	36.6.1, 3.1, 7.0 107.7. 327311111111111111111111111111111111111		

	Washer, 5/16" <i>6320, 70907-07, 6016, 6702</i>	50-7034
13.	Manifold Mounting Flange Front	16-0247
	Rear	
14.	O-Ring, Manifold	
	6 pack	
15.	Fitting, Vent Hose, 1/8"–27 Pipe	
	Exhaust Flange, 1984—Up S&S® B2 Heads	
	Exhaust Adapter Flange For Stock Header Pipe,	
	1984—Up S&S® B2 Heads	550-0224
18.	Exhaust Flange Retaining Ring, 1.759" X .062"	550-0226
19.	Exhaust Gasket, Tapered Stainless Steel,	
	1984—Up bt 65324-83B, 65324-83A	106-5029
20.	Press-In Aluminum Retaining Ring	550-0225
	Exhaust Gasket Backing Washer 2.18" X 1.690" X.125".	
22.	Exhaust Flange Retaining Ring, 2.125" X .078"	. 50-8159-S
23.	Exhaust Gasket, Tapered, Stainless Steel	550-0221
24.	Exhaust Gasket Backing Washer 2.18" X 1.885" X .200".	550-0219
25.	Weld-On Exhaust Header Pipe	550-0222

VALVE SPRING REPLACEMENT PARTS ON PAGE 224





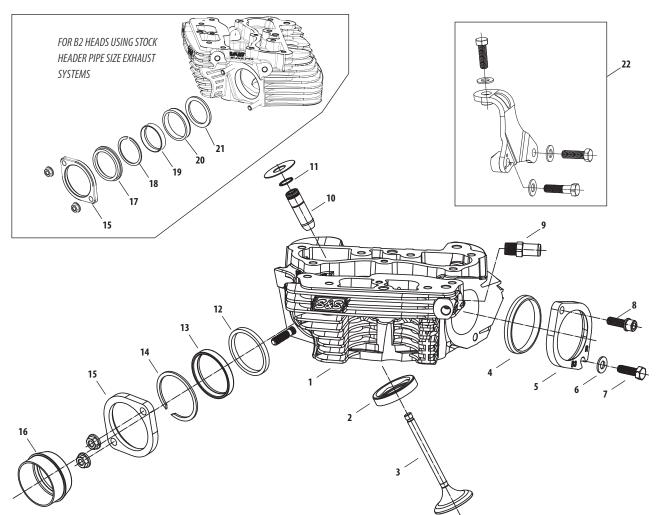


B3 CYLINDER HEADS REPLACEMENT PARTS FOR S&S T143 ENGINES

1.	Cylinder Heads Set, B3	
	Black	.900-0803
	Silver	.900-0818
2.	Seat, Blank, B3 Heads, 2.300"	
	Intake	.900-0677
	Exhaust	
3.	Valve	
	Intake	.900-0678
	Exhaust	
4.	Seal,Manifold,B2 Heads,2.250" x 2.520" x .290"	.16-0246-S
5.	Flange	
	Front	160-0087
	Rear	
	Set	
6.	Washer, Flat, .344" x .688" x .065", Zinc, Steel	50-7034
7.	Bolt,Hex Head,Gr5,5/16-18 x 1",Zinc	
8.	Screw,SHCS,w/Flat Washer,5/16-18 x 1",Zinc	
9.	Fitting, Pipe, Straight, 1/4–18 NPTF x 1.510" X .500", Zinc, S	

10. Valve Guide, Intake, Powder Metal11. Retaining Ring, External, Spiral, Heavy Duty, .525" x .035" x .035"	x .050",
12. Exhaust Gasket Backing Washer, 2.18" x 1.885" x .200"	. 550-0219
13. Exhaust Gasket, Tapered, Stainless Steel	.550-0221
14. Exhaust Flange Retaining Ring, 2.125" x .078"	50-8159-S
15. Exhaust Flange	.550-0223
16. Weld-On Exhaust Header Pipe	.550-0222
17. Exhaust Adapter Flange for Stock Header Pipe	.550-0224
18. Exhaust Flange Retaining Ring, 1.759" x .062"	.550-0226
19. Exhaust Gasket, Tapered Stainless Steel	.106-5029
20. Press-in Aluminum Retaining Ring, 1984—up	.550-0225
21. Exhaust Gasket Backing Washer, 2.18" x 1.690" x.125"	.550-0220
22. Head Mount Bracket Kit	
2008 T143	.900-0797
2009-up T143	.900-0798

VALVE SPRING REPLACEMENT PARTS ON PAGE 224

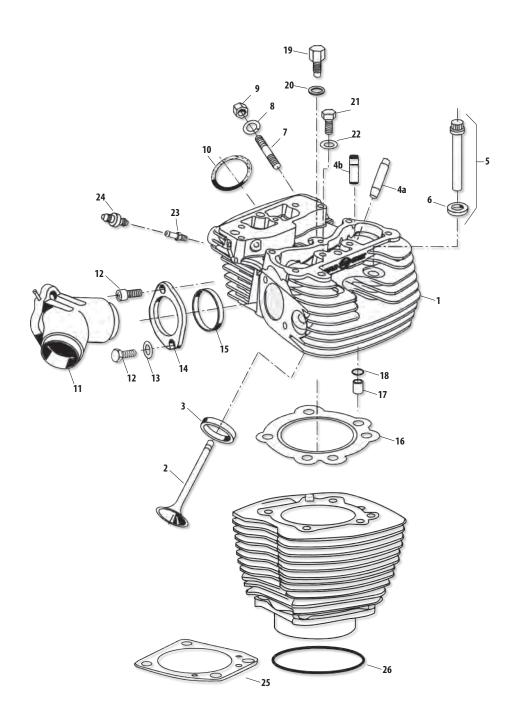


SUPER STOCK® CYLINDER HEADS REPLACEMENT PARTS FOR 1999-UP BIG TWIN ENGINES

1. Cylinder head (See page 192)	14. Manifold mounting flange
2. Valve	a. Standard Profile Flange
All S&S heads with 89cc chamber	Front 27009-86A (each)
Intake	5 pack
2.000" diameter	
2.000"diameter +.085" stem length 90-2004	
Exhaust	Set (Front & Rear)
1.605" diameter	b. Low Profile Flange
All S&S heads with 79cc chamber	Front
Intake — 1.940" diameter	Rear
Exhaust — 1.575" diameter	
3. Valve seat	For S&S heads (each)
All S&S heads with 89cc chamber	10 pack
Intake - 2.000" diameter	For Stock heads <i>26995-86B, 26995-86A,</i>
Exhaust - 1.605" diameter	10 pack
All S&S heads with 79cc chamber	16. Head gasket
	3
Intake – 1.940" diameter	
Exhaust - 1.575" diameter	·
4a. Valve guide - Cast- Intake or Exhaust	37%"/3.927" x .030" Layered Ste
Standard Diameter .5625/.5620 18112-92	
+.001" Diameter .5635/.5630 18130-83C. 90-2211	4" x .043" Graphite <i>(each)</i>
+.002" Diameter .5645/.5640 18133-83A, 18133-83D	10 pack
+.003" Diameter .5655/.5650 18131-83C	41/8" x .043" Layered Steel (each)
+.030" Diameter .5925/.5920 909-2219	10 pack
4b. Valve guide –Powder Metal – Intake or Exhaust	41/8" x .030" Layered Steel (2 pag
Standard900-0553	For S&S Bores
+.001" 900-0554	41/8" x .043" Graphite (each)
+.002"	10 pack
+.003"	
5. Head bolt assembly — (8 Required) (Includes head bolt washer)	17. Alignment dowel, base and head a
88", 95", 96", 100", 107" & 111" 33-3030	3
4 pack	
116", 117"	
4 pack 93-3037-4	
6. Head bolt washer	each
.150" (each)	
.250" (each)	
7. Exhaust port stud 16715-83 (each)	2 pack
5 pack 5 pack 5 pack	
8. Lock washer – 5/16"	
9. Nut, flanged - 1/16" -24	22. Flat washer – 3/8" (<i>each</i>)
Zinc (each)	
2 pack	
5 pack	Rear, 1/8"–27 pipe
Chrome (each)	
10. Exhaust pipe gasket, tapered <i>65324-83B</i> , <i>65324-83A</i> (each) 106-5029	
10 pack	
11. Intake manifold (See page 196)	43%" x .018" Graphite (2 pack)
12. Manifold mounting screw	41/8" x .018" Graphite (each)
SH - 5/6"-18 x 3/4" 3275(each)	
SH - 18 x 1" 3201WA, 2708	•
HH - 1/6"-18 x 1" 3987 (each)	
13. Flat washer - 5/16" 6320, 70907-07, 6016, 6702	
	10 pack
	26. Base O-ring (Used for early S&S bo
	4" x .103" (each)

Front 27009-86A (each)	. 4 16-0232
5 pack	. ॿॼ •16-0600
Rear 27010-86A (each)	16-0233
5 pack	. 🕬 16-0601
Set (Front & Rear)	
b. Low Profile Flange	
Front	106-1344
Rear	106-1345
15. Manifold o-ring	
For S&S heads (each)	16-0235
10 pack	
For Stock heads 26995-86B, 26995-86A, 26992-99 (each)	
10 pack	
16. Head gasket	
For Stock Bolt Pattern	
3¾" x .043" Graphite <i>16775-99B (each)</i>	93-1045-S
37%"/3.927" x .030" Layered Steel (2 pack)	
37%"/3.927" x .045" Layered Steel (<i>each</i>)	
4" x .043" Graphite (each)	
10 pack	
41/8" x .043" Layered Steel (each)	
10 pack	
41/8" x .030" Layered Steel (2 pack)	
For S&S Bores	900-021/
41/8" x .043" Graphite (each)	02 1047 5
10 pack	
4%" x .045" Copper (<i>Set of Two</i>)	93-1061
-	FO 0177
each	
4 pack	50-81//-4
18. Alignment dowel o-ring — Base (all bore sizes)	
S&S heads 3¾" bore only 11105, 11273	F0 0000
each	
10 pack	
19. Plug, HH – 14mm <i>(each)</i>	
2 pack	
20. Washer, compression – 14mm, 507" x .705" x .047"	
21. Head mount bolt – 3/8" – 16 x 11/4" <i>4716W</i> (each)	
22. Flat washer – 3/8" (each)	50-7051
23. Vent hose fitting, (For 4%" Bore Only)	
Front, 1/16"-27 pipe	
Rear, 1/8" – 27 pipe	
24. Check Valve (<i>For 41</i> %" <i>Bore Only</i>)	50-8122
25. Base Gaskets	
For S&S Bores	
4¾" x .018" Graphite (2 pack)	
4%" x .018" Graphite (each)	
10 pack	
4" x .018" Graphite (each)	93-1050-S
For Stock Bolt Pattern	
41/8" x .018" Graphite (each)	93-1092-5
10 pack	93-1921
26. Base O-ring (Used for early S&S bores)	
4" x .103" (each)	50-8049
35%" or 3½" x.103" <i>11256</i> (each)	
. ,	

16-0232



TOP END REBUILD GASKET KITS FOR S&S® ENGINES FOR BIG TWINS

Part #
90-9511*
90-9506
90-9510
90-9505
90-9504

Kits include: Intake and exhaust seals, head & base gaskets, o-rings, pushrod o-rings, and valve guide seals.
*Does not include intake seals.

VALVE SPRING REPLACEMENT PARTS

.720" & .660" Lift Valve Springs (B3 Cylinder Heads)

1.	Seal, valve guide, intake/exhaust 18001-83B (each)	90-2008 90-2158
2.	Keeper, valve spring, SA	90-2153A
3.	Valve spring shim	
	.015" (each)	
	5 pack	
	.030" (each)	
	5 pack	. 70-2170

.650" Lift Valve Springs (B2 Cylinder Heads)

1.	Seal, Valve Guide, fits .315" x .554"OD, Viton® (4 pack)	900-0737
	Keeper, valve spring, Standard, 9° (each)	

.650" Lift Sidewinder® Valve Springs (Stock, Super Stock® & CNC Ported Cylinder Heads)

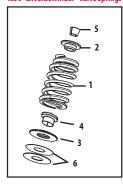
1. 2. 3.	Collar, Top, Steel	106-5690
4.	Seal, Valve S&S CNC Ported Heads & 2005-up bt w/7mm valve stem	106 5600
	S&S Super Stock Heads	100-2000
	.420'' Cast (each)	
	.562" Powder Metal (4 pack)	
5.	Keeper, valve spring	106-5692
6.	Valve Spring Shim	F00 0012
	.015" (each)	
	.030 (caci)	

.585" Lift Valve Springs (Stock, Super Stock® & CNC Ported Cylinder Heads)		
1. 2. 3.	Spring, Valve .585"	. 900-0444 . 900-0550
Э.	For Stock Heads w/7mm valve stem (includes seal) For CNC Ported Heads w/7mm valve stem. For Super Stock Heads.	900-0549
4.	Seal, valve guide For Stock Heads w/7mm valve stem (includes bottom collar) For CNC Ported Heads w/7mm valve stem For Super Stock Heads	
	.420" Cast <i>(each)</i>	900-0338 900-0737
5.	Keeper, valve spring For Stock and CNC Ported Heads For Super Stock Heads.	
6.	Valve spring shim For Stock and CNC Ported Heads	
	.015"	
	.015"	

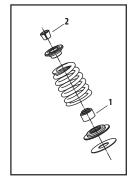
.720" & .660" Lift Valve Springs



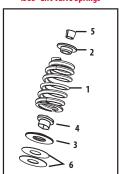
.650" Lift Sidewinder® Valve Springs



.650" Lift Valve Springs

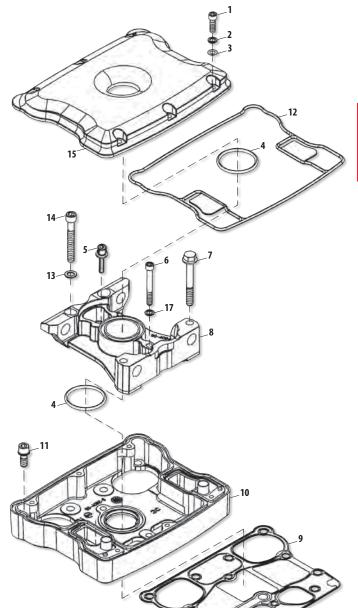


.585" Lift Valve Springs



DIE-CAST ROCKER COVER REPLACEMENT PARTSFOR 1999-UP BIG TWIN ENGINES

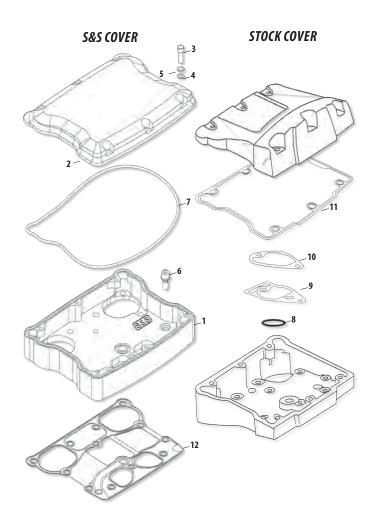
	Screw, socket head ¼"-20 x ¾" 4069A (each)	50-7017
3.	12 pack	
	8 pack	. 50-7015-8
4.	Seal, o-ring (Included in gasket kit see #16 below.)	
5.	Screw, socket head, 1/4"-20 x 1" 4741A	
	each	
6.	Screw, socket head, ¼"-20 x 2" 25794-36	50-0013
7.	Screw, hex flange head, 5/16"-18 x 21/2" 3501	50-0123
8.	Support, rocker arm	90-4140
9.	dashed rocher covery draprinte	
	For Stock or S&S rocker covers on stock heads 16719-998	
	each	. 90-4071-S
	2 pack	90-4071
	10 pack	90-4099
	For Stock rocker covers on S&S heads (each)	90-4124
	2 pack	90-4120
	Housing, rocker, Chrome	
	Screw, socket head, 5/16"-18 x 1"	. 50-0125-S
12.	Seal, rocker cover (Included in gasket kit see #16 below.)	
13.	Washer, flat 5/16" (each)	50-7026
14.	Screw, socket head %6"-18 x 21/4"	
15	each	
	Cover, rocker, chrome	
16.	Gasket set – rocker cover, cast (Not Shown)	
1/.	. Nashier, 201 X .474 X .000 , Anniedieu, Stalliless Steel	30-/020



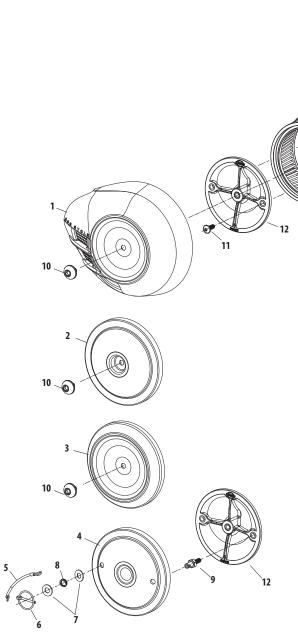
BILLET ROCKER COVER REPLACEMENT PARTS FOR 1999-UP BIG TWIN ENGINES (DISCONTINUED)

1.	Base assembly, rocker	N/A
2.	Top, rocker cover	
3.	Screw, SHCS, 1/4"-20 x 3/4" 4069A (each)	50-0067
4.	Washer, flat, chrome, 260" x .425" x .060"	
	each	50-7017±
	12 pack	
5.	Washer, flat, rubber coated, ¼" x ¾6" x .020"	
	each	50-7015
	8 pack	
	12 pack	
6.	SHCS, 5/6"-18 x 1" with flatwasher	
7.	O-ring, rocker cover seal, Viton®	
8.	O-ring, (-114), .625" ID x .937" OD <i>11270</i> .	
9.	Gasket, Breather Baffle, Stock Pattern, Paper, 1999-'10 bt	30 0033
۶.	17162-03, 17592-99 each	90-4078
10.	Gasket, Breather Cover, Stock Pattern, Paper, 1999-'10 bt	
	17591-99, 17162-03, 17592-99 each	90-4077
11	Gasket, Rocker Cover, Steel, 1999-up bt 17386-99A	
	each	0-4096-S
12.	Gasket, bottom rocker cover	
	each	0-4071-S
	2 pack	90-4071
	10 pack	90-4099
9.	Gasket kit, rocker cover (includes gaskets for 2 rocker cover	
	For S&S billet rocker covers	,
	(includes #5,7,8,9,10,12)	90-4073
	For 1999-'10 bt	
	(includes #8,9,10,11,12)	90-4097

N/A = No longer available



STEALTH AIR CLEANER REPLACEMENT PARTS



1. 2. 3.	Cover, Air Cleaner Airstream Chrome Gloss Black. Cover, Air Cleaner, Domed Bobber Chrome Wrinkle Black. Cover, Air Cleaner, Dished Bobber Chrome Wrinkle Black. Cover Air Cleaner, Muscle Chrome Gloss Black. Lanyard, 6" Stainless Steel.	.170-0396 170-0120 [±] .170-0124 170-0119 [±] .170-0123 170-0172 [±]
3.	Chrome	.170-0396 170-0120 [±] .170-0124 170-0119 [±] .170-0123 170-0172 [±]
3.	Cover, Air Cleaner, Domed Bobber Chrome Wrinkle Black Cover, Air Cleaner, Dished Bobber Chrome Wrinkle Black. Cover Air Cleaner, Muscle Chrome Gloss Black	170-0120± . 170-0124 170-0119± . 170-0123
3.	Chrome. Wrinkle Black. Cover, Air Cleaner, Dished Bobber Chrome. Wrinkle Black. Cover Air Cleaner, Muscle Chrome. Gloss Black.	. 170-0124 170-0119 [±] . 170-0123 170-0172 [±]
	Wrinkle Black. Cover, Air Cleaner, Dished Bobber Chrome Wrinkle Black. Cover Air Cleaner, Muscle Chrome Gloss Black.	. 170-0124 170-0119 [±] . 170-0123 170-0172 [±]
	Cover, Air Cleaner, Dished Bobber Chrome Wrinkle Black. Cover Air Cleaner, Muscle Chrome Gloss Black.	170-0119± . 170-0123 170-0172±
	Chrome	. 170-0123 170-0172±
١.	Wrinkle Black	. 170-0123 170-0172±
•	Cover Air Cleaner, Muscle Chrome	170-0172±
	ChromeGloss Black	
	Gloss Black	
	Lanyard 6" Stainlock Stool	
•		
•	Lynch Pin	.500-0083
•	Washer, Fender, Chrome Plated	
•	Spring, Wave Washer, Stainless Steel	
	Screw, Hex, Hood-pin, 1/4-20, UNC	
0.	Air Cleaner Cover Screw, SHCB, 5/6"–18 UNC X .500"	
1.	Screw, SHC, Flanged Button, 1/4–20 UNC x .750"	
2.	Top Plate, Air Filter, Molded, Plastic	. 170-0026
3.	Filter, Air, Tapered,	470 0436
	Standard Pleated, Cotton, Stealth	
	1"Taller Pleated, Cotton, Stealth	
	1" Taller Pleated, Cotton Filter Only	
4.	Screw, SHCB, 1/4–20 UNC X .825"	.500-0059
5.	Backplate 1993-up Stock CV Carb; 2001-up Delphi® EFI	
		170 0021
	(except Throttle by Wire)	
6.	Screw, Backplate Vent, SHCB, %–16 x 1½", Chrome Plated	
io. I7.	Washer, Flat, , Nitrile Rubber Coated, .380" x .880" x .024"	1/0-0045
/.	each	50-7054
	еасп 10 pack	
8.		
0.	Stock CV Carb & EFI Throttle Body, 1991-up bt 29062-95	· D
	(except Throttle by Wire)	
	Throttle by Wire, 58mm-72mm, .0625"Thick, 2008-up bt .	160-0022
	Super E/G,CV Adapter,	
	w/ lanyards for use with Muscle Cover	

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SINGLE BORE TUNED INDUCTION SYSTEM REPLACEMENT PARTS FOR S&S T-SERIES ENGINES AND 1999–'06 BIG TWINS

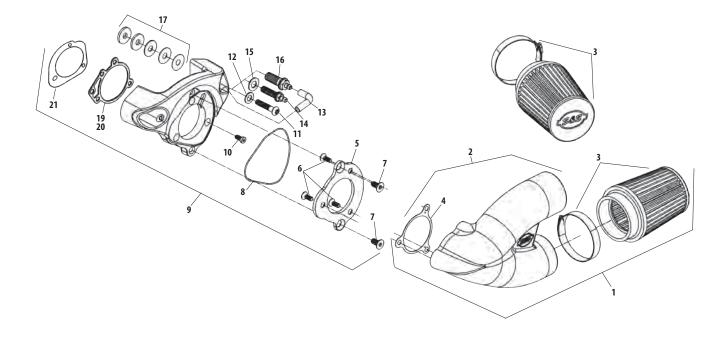
1.	Tuned Intake Kit, 2.19" Single Bore with Red Filters	
	Gloss Black	
	Chrome Plated	106-4967±
2.	Tuned Intake Assembly, 2.19" Single Bore	
	Natural	
	Gloss Black	
	Chrome Plated	
3.	Air Filter, w/clamp, Stainless Cap — Conical — 27/16" I.D. x	
	Red (each)	
	Blue (each)	
4.	Gasket, Intake — Adapter Plate	17-1022
5.	Plate, Adapter, 2.19" Single Bore Tuned Intake	
	Chrome Steel	
6.	FHSC 1/4-20 x 5/8" (each)	
7.	FHSC 5/16-18 x 5/8" (each)	
8.	O-Ring, Adapter Plate Bracket 3%" O.D. x 31/2" I.D. 1/16 CS	
	each	50-0446
9.	Bracket Kit, 2.19" Single Bore Tuned Intake, Chrome	
	Super E/G, S&S T124	
	Super E/G,1999-'06 BT	
	Single VFI, S&S T124	
	Single VFI, 1984-up BT	
	Stock Carb, Delphi® EFI, 1984-up BT	
10.	Backplate Screw, SHC, w/Threadlock, ¼–20 x ½" (each)	
	10 pack	
	Screw, 5/16 – 18 x 11/4, BHC, Chrome (each)	
	Flat Washer 5/16" x 1/16" <i>6320, 70907-07, 6016, 6702</i>	
	Hose, Breather, ¼" I.D., 90°	
	Screw, Breather Fitting, ¾ -16 x 1¼"	
	Washer, Flat, 3%" x 13/16" x 1/16", Chrome	
16.	Screw, Breather Fitting, ½ -13 x 1.25	50-0435

17.	Shim Kit	
	(a) 5/16" I.D. S&S 41/8" engines	17-0314
	Includes:	
	.325" x 1" x .018", Stainless Steel (each)	50-7038
	.325" x 1" x .030", Stainless Steel (each)	50-7039
	.325" x 1" x .048", Stainless Steel (each)	50-7040
	.325" x 1" x .105", Stainless Steel (each)	50-7041
	.325" x 1" x .125", Stainless Steel (each)	50-7042
	(b) ½" I.D. 1993-up BT	17-0464
	Includes:	
	.515" x 1" x .018", Stainless Steel (each)	50-7085
	.515" x 1" x .030", Stainless Steel (each)	50-7086
	.515" x 1" x .048", Stainless Steel (each)	50-7087
	.515" x 1" x .105", Stainless Steel (each)	50-7089
	.515" x 1" x .125", Stainless Steel (each)	50-7090
18	• Enrichment Device*, S&S Super E & G carbs	N/A
	(*Use in place of enrichment device on air cleaner backple	ate)
19	. Gasket, Backplate – E/G/SBEFI (each)	. 106-1724
	10 pack	. 106-2328
20	• Gasket, Backplate, S&S SBEFI 58mm	.106-4662
21	. Gasket, Backplate, Stock carb/Throttle Body 29062-958	.106-6022
22	. Hardware Kit	
	1999-'06 bt, Stock CV & EFI Delphi®	
	(includes #7, 8, 10, 11, 12, 13, 14, 15, 16, 17a, 17b, 19, 21) .	17-5098
	1999-'06 bt, Super E/G	
	(includes #7, 8, 10, 11, 12, 13, 14, 15, 16, 17a, 17b, 18, 19, 2	1) 17-5099 ±
	S&S 41/8" Bore Heads (includes #7, 8, 10, 11, 12, 13, 17a, 19).	.500-0016
23	Oil, Air Filter, 8 oz. (Not shown)	
	Red	. 106-1163
	DI	404 4444

ACCESSORIES

Description		Part#
Nulan Air Filtor Cover	each	106-0247
Nylon Air Filter Cover	2 pack	106-0248



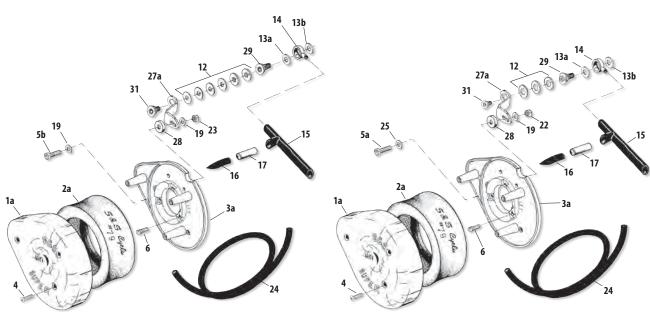


AIR CLEANER REPLACEMENT PARTS FOR STOCK FUEL SYSTEMS

1.	Air cleaner cover	
	a. Chrome	17-0078 ±
	Black	17-0075
	b. Chrome	17-0378 ±
	Gloss Black	170-0384A
	Slasher	17-0004 [±]
2.	Filter Element	
	a. Foam	17-0079
	b. Pleated	106-4722
3.	Backplate	
	a. 1993-'99, bt stock CV	17-0003
	b. 1993-'06 bt, stock CV/Delphi® EFI	
4.	Cover screw 1305 (each)	
	3 pack	
	10 pack	
	Black 902 (each)	
	3 pack	
5.	Screw	
	b. All others — HHCS ¼"-28 x 7%"	50-0074
6.	Backplate screw, BT 1999-up, All 2002-up EFI BT	
	Zinc Plated (each)	106-2084
	10 pack	106-2105
7.	Backplate plug 1/8"-27 (each)	
	10 pack	
8.	Spacer, 1/2" Hex, Threaded	
9.	Stud, Fully Threaded, 5/6-18 x 1.25", Zinc Plated, 1999-'0	
10.	SHCS, 1/4-20 x 3/4 SEMS	
11.	Screw, SHCS,	
	1995-'98, ¼-20 x ¾", SEMS	50-0066
	1999-'01, 5/16-18 x 3/4" 3275 (each)	
12.	Shims	
	a. %" x .025" (each)	50-7113
	10 pack	50-7110
	b. 5%" x .050" (each)	
	10 pack	50-7111
	c. %" x .075" (each)	50-7115
	10 pack	50-7112
13.	Breather screw seal	
	a. BT 1993-'99, All 2002 EFI BT — Washer, .520 (each)	50-7055
	10 pack	50-7057
	b. BT 1999-up, All 2002 EFI BT — Washer, .380 (each)	
	10 pack	
14.	Breather fitting (each)	17-0350
	2 pack	17-0355
15.	Crankcase breather vent hose, BT 1999-up	12 17-0339
16.	Vent hose, with angle cut	
	. 3	

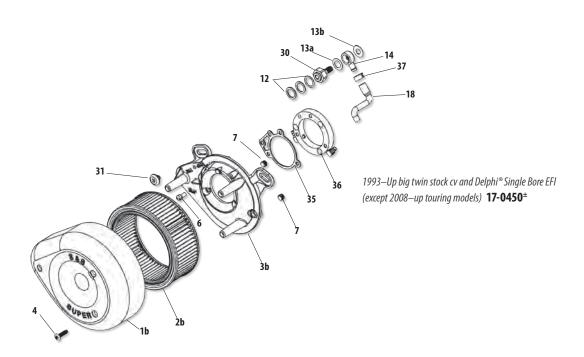
	ng	17-0336C-S
,	75" x 1.825", 1993–2007 BT (each)	17-0364A
	2°C, 1/4" 6194, 6245, 6703, 6736, 6228W, 6192(each)	
	ck, .250" <i>7035, 7036</i>	
,	S, ½–20 x 1¼"(each)	
	racket locknut – 1⁄4"–28 x 7⁄8" (each)	
	er, 5/16"	
	bing – ¼" x %" x 3'	
	at - 3/8" x 7/8" x .146" (each)	
,	lat, .375" x .875" x .146", Zinc, Steel (each)	
		30-7033
27. Support b	p bt & EFI Softail® 2001	NI /A
	•	
	001 bt, Air Cleaner To Head, Nickel Plated	
	" x ¾" x .200"	
	ot fitting, BT 1999-up	
	eather, +.250" (Rear Head)	1/-0348
	ckplate (Rear Head), Socket Panhead	17.0246
	360", Zinc, Alloy Steel	1/-0346
	ckplate Vent (Front Head)	17.02.45
	5/16-18	
	HC %6-24, x ½" Stainless SteelFront Head	
	ather Screw, Chrome, Aluminum, Front Head	
,	ackplate <i>(each)</i>	
	ssembly, 1993-'06 bt	
	ring, %6"	
	ng, .660" <i>(each)</i>	
39. Wire tie (N/S)	50-8003

(N/S) = Not Shown



1999—Up big twin with CV Carburetor, 2001 Harley-Davidson® EFI Softail®, & All 2001—'06 EFI Models except Dyna® (Discontinued) 17-0101

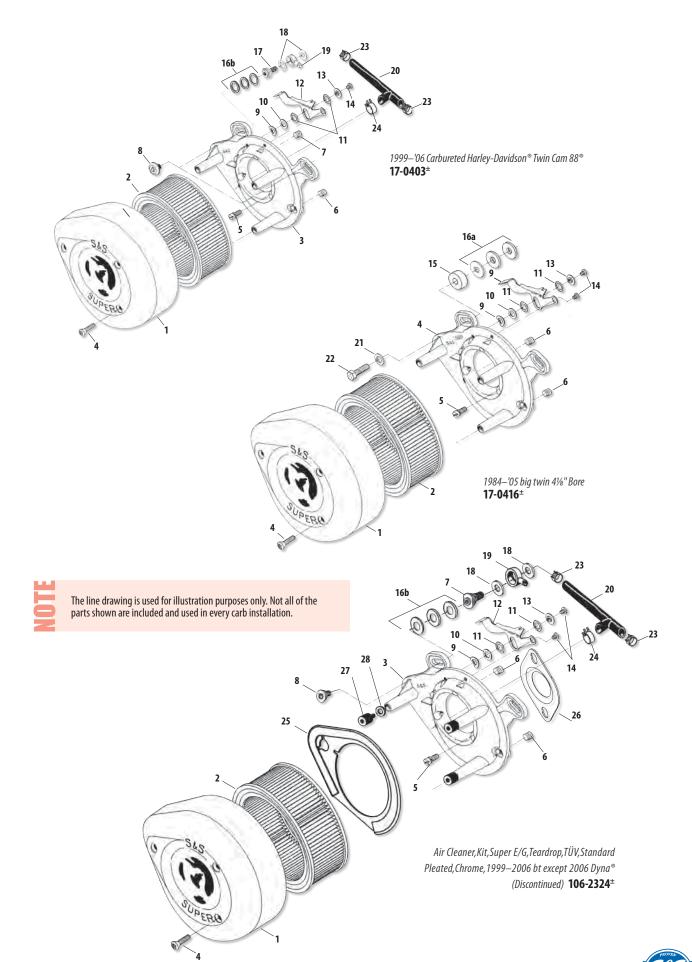
1993–'06 Carbureted big twin models, 2001 EFI Softail® Models, and 2002–Up All EFI Models (except 2006–Up Dyna®) (Discontinued) **17-0117**



SUPER E & G AIR CLEANER REPLACEMENT PARTS FOR 1999-'06 BIG TWINS

1.	Air cleaner cover —	
	Chrome	
	Gloss Black	
	Slasher	17-0004 [±]
2.	Filter Element	
	Pleated	
	Pleated Carbon	17-0375
3.	Backplate	
	1999-'06 bt	
	41/8" Bore (Manufactured after 1–1–03)	③ 17-0387
4.	Cover screw	
	Chrome (each)	50-0347-S±
	Stainless Steel 1305 (each)	50-0072
	10 pack	50-0094
	Black 902 (each)	50-0310-S
	3 pack	50-0310
5.	Backplate screw, Zinc Plated (each)	
	10 pack	
6.	Backplate plug 1/8"-27 (each)	
	10 pack	
7.	Screw vent fitting — BT 1999-'06 except 06 Dyna®	
8.	Screw, air cleaner to head	
9.	Fast idle friction washer (each)	
	10 pack	
10.	Fast idle steel washer (each)	
	10 pack	
11.	Fast idle nylon washer (each).	
	10 pack	
12	Fast idle lever.	
	Fast idle brass washer (each)	
15.	10 pack.	
14	Fast idle lever screw (one required for current backpla	
1-11	each	
	10 pack	
15	Shim, .850" x .325" x .400"	
	S&S 4½" Bore	50-7027
16.	Shims	
	a. S&S 41/8" Bore, .325" x 1" x	
	.018" (each)	50-7038
	.030" (each)	
	.048" (each)	
	b. BT 1993-'06, .625" x .880" x	
	.025" (each)	50-7113
	10 pack	
	.050" (each)	
	. ,	

	10 pack	50-7111
	.075" (each)	
	10 pack	
17.	Screw vent fitting	
	b. BT 1999-up.	17-0345
18.	Washer, silicone coated steel	17 00 10
	BT 1999-up, .520" (each)	50-7055
	10 pack	
	BT 1999-up, .380" (each)	
	10 pack	
10	Breather fitting (each)	
17.	2 pack	
	_	
	Crankcase breather hose, BT 1993-'99	
	Flatwasher — 5/16" x 1/16" 6320, 70907-07, 6016, 6702	
	Mounting bracket bolt, S&S 4% " Bore, $\frac{5}{6}$ "- $18 \times \frac{11}{4}$ "	
	Spring clamps	
24.	Clamp,Hose,Bolt Style,5%" – 7%"	50-8002
	Plate, air cleaner noise reducer	
26.	Plate, Restrictor, Super E/G TÜV, 1999-up bt	N/A
27.	Rubber isolator mounts (each)	. 50-8510-S
28.	Shim, spacers, ½" OD x ¼" ID x .080" (each)	50-7971-S
	RDWARE KITS	
29.	For Super E/G,1999-up bt	17-0437 [±]
	For Super E/G, 4-1/8", 1984-'99 bt	17-0460±



&S Late Models 1999-up

CLASSIC TEARDROP AIR CLEANER REPLACEMENT PARTS FOR S&S® SINGLE BORE EFI

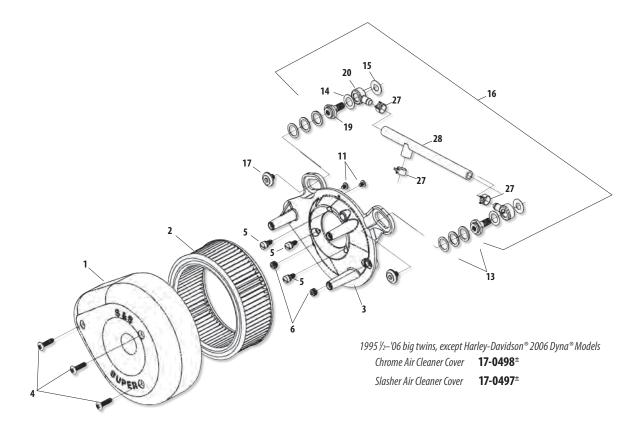
1.	Air Cleaner Cover	
	Slasher (slotted chrome)	17-0004 [±]
	Chrome	17-0378 [±]
	Gloss Black	
2.	Element, pleated	106-4722
3.	Backplate SBFFI	
	BT 1999-up	
	S&S 41/8" bore engines	17-0380
4.	Screw, Cover, oval 1/4–20 x 1	
	Chrome 1305 (each)	
	3 pack	
	10 pack	
	Black 902 (each)	50-0310-S
	3 pack	50-0310
5.	Backplate screw	
	Zinc Plated (each)	106-2084
	10 pack	
6.	Pipe plug, 1/8, air cleaner backplate	
	(each)	50-8331A
	10 pack	50-1015
7.	Mounting bracket bolt, hex 5/16-18 x 11/4	
8. 9.	Flat washer, 1/46" x 1/46" 6320, 70907-07, 6016, 6702 Shim, .850" x .325" x .400"	
9. 10.	Shim kit for 41/8" bore	
10.	Individual shims, .325" x 1" x	17-03 14
	.018" (each)	50-7038
	.030" (each)	
	.048" (each)	
	.105" (each)	
	.125"	
	2 pack	
11.	Screw, cable guide & air cleaner backplate, 10-24 x 1/4 (
	10 pack	50-0062
12.	Breather hardware for 41/8" bore	31-2104
	(Not included in air cleaner kit)	
13.	Shims, individual	
	5% x 7% x .025 (each)	
	10 pack	
	5% x 7% x .050 (each)	
	10 pack	
	% x % x .075 (each)	
	10 pack	
14.	Silicone washer, ½" ID (each)	
	10 pack	
15.	Silicone washer, 3/8" ID (each)	
	10 pack	
16.	Breather hardware for 1999-up bt	17-0455
_	(Not included in air cleaner kit)	47.0046
17.	Screw, wide head, 5/16-24 x .36	1/-0346
18.		17 0 400
	BT 1999-up	
	S&S 41/8" bore	17-0481

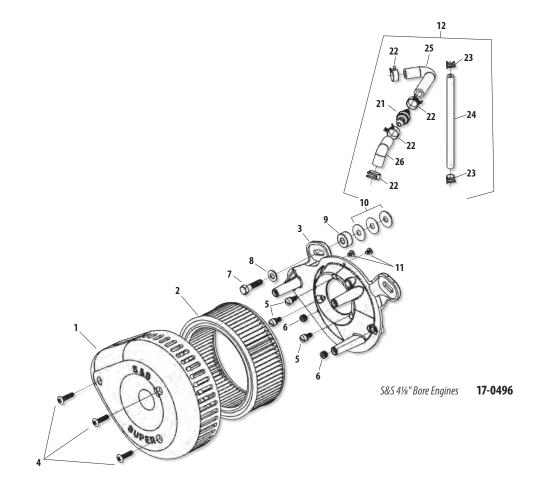
	Breather vent fitting, BT 1999-up. Breather fitting (each)	. 17-0350
21.	Check Valve	. 50-8122
22.	Clamp, Spring, .660"	50-8076-S
23.	Clamp, Spring, .440"	50-8143-S
24.	Hose,Cut To Size,.1875" x 6",Black,Rubber,SAE 30R2 5	0-8142AS
25.	Hose, Rear, Vent, Breather, Formed, Section 1, SAE J30	50-8262-S
26.	Hose, Rear, Vent, Breather, Formed, Section 2, SAE J30	50-8263-S
	Clamp, Spring, %6"	

(N/S) = Not shown



Breather hardware not included in these air cleaner kits.



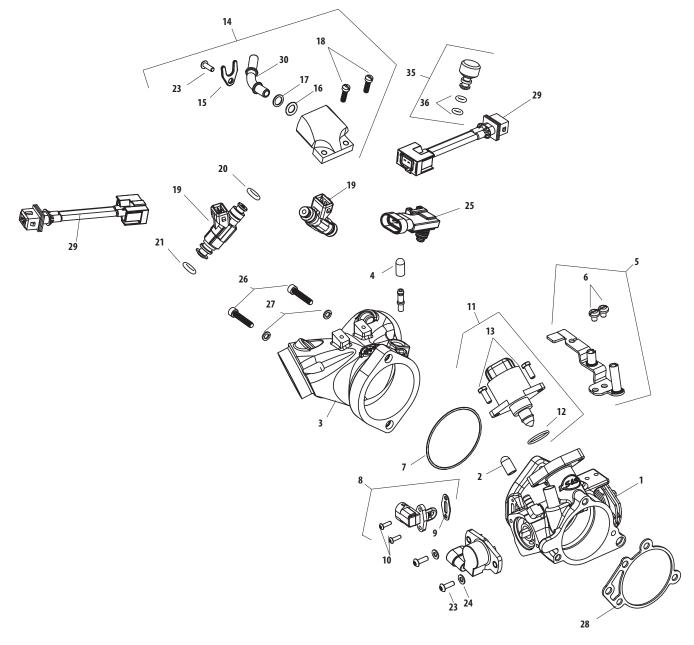


SINGLE BORE EFI THROTTLE BODY AND RELATED REPLACEMENT PARTS

1.	Throttle body	
	52mm 1995-'05	16-5101
	52mm 2006-Up	
	58mm 1995-'05	
	58mm 2006-Up	
2.	Cap, canister purge (each)	. 50-8266-S
3.	Manifold (See page 196)	
4.	Cap, rubber, manifold, fitting	50-8372
5.	Throttle cable guide packet with hardware	
6.	Screw, cable guide & air cleaner backplate (each)	
	10 pack	
7.	O-ring, throttle body to manifold	. 50-7967-S
8.	Intake air temperature sensor with hardware 27270-95	~
		55-5041 [±]
9.	Gasket, IAT	
10.	Screw, M3, IAT	. 50-0357-S
11.	Idle air control motor SS EFI with hardware, 1995-'05	٥.
	27628-01, 27628-01A	55-5085 [±]
12.	0-ring, IAC	. 50-8149-S
13.	Screw, 10-24, IAC	
	1995-'05 (each)	50-0356-S
	2006-Up (each)	50-0358-S
14.	Fuel rail kit	
	2006-'16 (Fuel inlet tube included)	
	2002-'05 (Fuel inlet tube not included)	
	1995-'01	16-5207
15.	Tube clip, fuel rail inlet 2001-'07	
	each	50-0391-S
16.	O-ring, fuel rail inlet, 2001-'07 27237-95	
	each	50-8137-S
17.	Backing washer, fuel rail inlet	
	2001-'07	. 50-0349-5
18.	Screw, rail, 1995-Up	
	each	
	10 pack	50-0146
19.	Fuel injector	FF F0F24
	each	
	2 pack	
20.	J,)	
21. 22.	O-ring, injector bottom, orange	
	Screw, TP sensor & fuel rail	
25.	each	2U-U328-C
	MAP sensor 32424-98, 32416-10, 32417-10	
25.		™ ●33-303/
26.	Screw, throttle body to manifold	בט טאבט כ
77	each	วบ-บ5วัว-5
27.	throttle body to manifold	E0 7000
20	Gasket, backplate	50-/000
۷8.	52mm (each)	106-1724
	10 pack	
	58mm (each)	
	John (each)	100-4002

29.	Harness, injector adapter kit	
	1995-'05	55-5074
	2006-Up	55-5209
30.	Fuel inlet tube 45°, 2002-up 27221-95	50-0485
	Spacer, throttle position — 2002-up	
	Pressure regulator, 1995-'01	
	Screw, pressure regulator, 6-32 x 3/16", 1995-'01	
34.	Clamps, Hose, 1/2" diameter, smooth, 1995-'01	
	each	50-8352
35.	Plug, assembly, MAP sensor hole, 1995-'01	50-8350
36.	0-ring, MAP plug, 1995-'01	
	each	50-8133-S

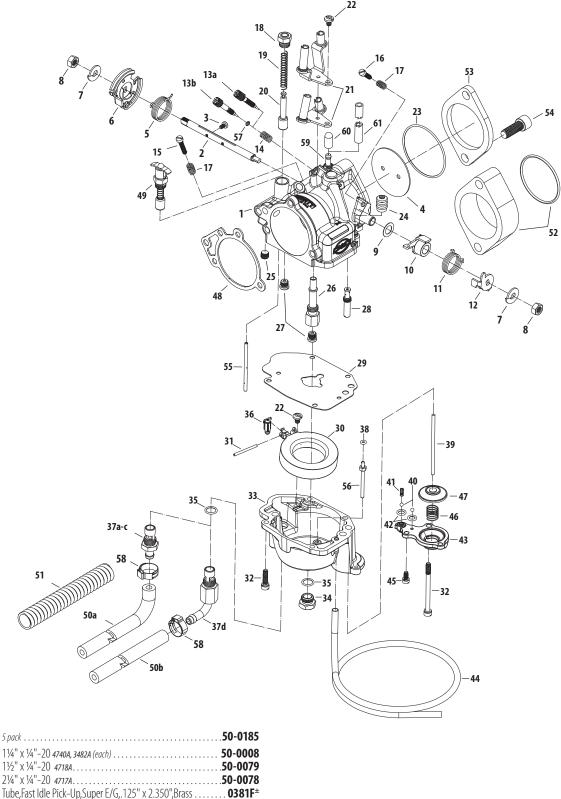
(N/S) = Not Shown



dn-6661 1969-nb 288 **238**

SUPER E & G CARBURETOR REPLACEMENT PARTS

1	Carla hadu accamblu		22	D I	
1.	Carb body assembly	(ISA 11 2201+	32.	Bowl screw	F0 0004
	17%" Super E			10–24 x ¾" – Three required (each)	
	21/16" Super G	11-2391⁼		10 Pack	
2.	Throttle shaft			10–24 x 23/8" – One required (each)	50-0040
	1%" Super E — Includes two plate screws			10 Pack	50-0061
	21/16" Super G — Includes two plate screws		33.	10 Pack	(USA) _{1,2,3} 11-2388±
3.	Throttle plate screw 11-2045- (two required) (each)	50-0055-S		Carb bowl assembly	USA _{1,2,3} 11-2388P
	10 pack		34	Bowl plug (each)	11-2090
4.	Throttle plate			5 pack	11-2092±
••	17%" Super E	11-2055	35	 Seat o-ring*(required with part #11-2465 only when re 	
	21/16" Super G		33.	each	
-	Throttle veture spring (/)	11-2333			
э.	Throttle return spring (each)			10 pack	50-8095
_	3 Pack	1,2,3 11-3502	36.	. Needle	
	Throttle spool			1%" Super E & 21/6" Super G	¹ 1,2,311-2195 [±]
7.	Throttle shaft lock washer (two required)			Racing only	11-2197 [±]
8.	Throttle shaft nut (two required) (each)	11-2350	37.	Seat - Includes O-ring #35	
	5 pack			(Replaces obsolete seats 11–2347 and 11–2348)	
9.	Throttle shaft nylon washer (each)	50-7050		a. 1%" E & 21/16" G (Uses part #11-2195± needle)	11-2465
	10 pack	50-7072		b. Racing only (Uses part #11–2197* needle)	
10.	Pump actuator lever	11-2376		c. Racing only -threaded fuel inlet (6AN .15	
11.	Actuator spring (each)	11-2375-5		(Uses part #11-2195± needle)	
• • • •	Actuator spring (each)	USA:11-3501		d. Permeation Compliant fuel inlet seat Sup	
12	Pump actuator arm	11-2277		(Uses part #11-2195 [±] needle)	USA 106 2011
	Idle mixture screw	11 -23/ /	20	Finctor pozzlo o ring ()	1,2,3 UO-ZU 1
13.		11 225/±	30.	• Ejector nozzle o-ring (each)	50-0011
	a. Idle mixture screw, brass (each)			10 Pack	
	5 pack	11-23/8 ⁻	39.	• Pump pushrod (each)	11-23/3
	b. Idle mixture screw only	444 444		5 Pack	1,2,311-2393
	each		40.	• Check ball – (two required) (each)	50-8090
	5 pack	110-0069±		10 pack	50-8125
	Idle mixture screw w/ 500-0036 o-ring)		41.	Check ball spring (each)	11-2374
	each	110-0068±		• Check ball spring (each)	
14.	Idle mixture screw spring (each)	<u>.</u> 11-2052		• Pump cap o-ring – (two required) (each)	
	10 Pack	😘 11-2060		10 Pack	50-8100
15.	Idle speed screw (each)	50-0038	43.	• Pump cap assembly	USA _{1,2,3} 11-2389
	10 Pack		44	• Overflow hose per 24" 27369-76 (each)	19-0262-5
16.	Pump adjustment screw (each)		• • •	5 Pack	19-0263
	10 Pack		45	• Pump cap screw 8–32 – (two required) (each)	50-0042
17	Idle speed/pump adjuster spring (each)	11-20/18	75.	10 Pack	50 00 1 2
17.	10 mark	USA 11 2052	16	Diaphram spring ((1)	11 227
10	10 pack	1,2,3 1-2000 11 12 1 14 1 ±	40.	• Diaphram spring (each)	11-22/3
10.	Plunger nut (each)			10 pack	1,2,3 1-22/8
40	5 Pack	11-23/2-	4/.	Diaphragm	11-2282
19.	Plunger spring (each)	11-2340	48.	• Gasket, backplate (each)	106-1/24
				10 pack	
20.	Fast idle plunger	11-2343		• Enrichment device (Use with air horn only)	11-2084 [±]
21.	Cable guide assembly with screw		50.	• Fuel line	
	Use with butterfly style cables			a. With 90° bend*19"	
	Use with constant velocity style cables			b. Permeation Compliant Straight, 311" x .5	63" x 17.5"
22.	Cable clamp/float pin screw (each)			(Use with part #106-2011 , 90° seat)	190-0001
	10 Pack		51.	• Fuel line insulator — 12"	USA _{1,2,3} 19-0172
23.	0-ring			• Spacer, Kit, w/ O-ring	
- •	17/8" Super E (each)	50-8016		17/8" x 1"	16-0057*
	10 Pack	50-8094		2½6" x 1"	
	2½6" Super G (each)			2¼" x 1"	
	10 pack			*Use with 1" Spacer Block	
24	Pollows soal (t)	11 2266			0-0036
۷4.	Bellows seal (each)		53.	Insulator Block, Manifold, w/ O-ring	44 0404
	5 Pack			1%" x ¼" Super E	
25.	Bowl vent plug (each)	50-0105		1%" x 3%" Super E	
_	10 pack			21/16" x 1/4" Super G	
26.	Main discharge tube	11-2085 [±]		21/16" x 3/8" Super G	
27.	Main jet — See Chart on 202			2¼" x ¼" Super D	16-0499
	Intermediate Jets — See Chart on 201		54.	• Screw	
20.	Series #94 fits all Super 1%", 2\%", 2\%" gas carburetor	c		1" x 3/8" - 16 (each)	50-0161
20				11/4" x 3/8"-16 (each)	
29.	Bowl gasket (each)	11-2300		10 pack	
34	10 pack			13/8" x 3/8"-16 (each)	
	Float			5 pack	
31.	Float pin (each)	11-2369*		2" x 3/8" – 16 (each)	
	5 Pack			Z	



	s pace.	
	11/4" x 1/4"-20 4740A, 3482A (each)	50-0008
	1½" x ¼"-20 4718A	
	2½" x ½"-20 4717A	50-0078
55.	Tube, Fast Idle Pick-Up, Super E/G,.125" x 2.350", Brass	0381F±
	Tube, Ejector Nozzle, Super E/G, Flared, Brass	
	0-ring, 3mm x 5mm x 1mm (<i>each</i>)	
	10 pack	
58.	Clamp, %" - %"	
59.	Hose, Fitting straight, .040"	16-0134
	VOES Fitting Cap	
	VOES/Oil Return Hose	

^{*360°} banjo style fuel inlet fitting used on early S&S E&G carbs is no longer available. Replace with one of the inlet/seat fittings listed under #37 on this page. We highly recommend inlet/seat #106-2011.

±**⚠**WARNING: Cancer and Reproductive Harm

CARBURETOR REBUILD KITS SEE PAGE 202

All reference to HD^{\bullet} part numbers is for identification purposes only. We in no way are implying that any of S&S Cycle's products are original equipment parts or that they are equivalent to the corresponding HD^{\bullet} part number shown.



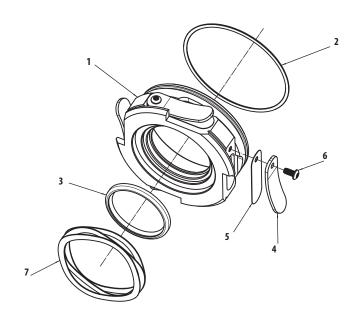
dn-6661 1909-nb 2**88** 2**40**

CRANKCASE BREATHER REED VALVE REPLACEMENT PARTS

1.	Valve, Assembly, Breather Reed
	Engines with Stock Oil Pumps
	1999-'02 bt with stock or S&S Super Stock crankcases
	31-2070 31-2070 31-2070 31-2070 31-2070 31-2070 31-2070 31-2070 31-2070 31-2070
	2003–'10 bt with stock or S&S Super Stock crankcases
	310-0742
	S&S SA Crankcases
	Engines with S&S gear oil pumps
	2003-up bt w/stock crankcases and all S&S crankcases
	•
,	310-0742
2.	O-ring
	1999-'02 bt (-038),2.614" ID x 2.750" OD,Viton® 50-8154-S
	2003-up bt (-036),2.364" ID x 2.500" OD,Viton® 50-8155-S
3.	Seal, Breather Reed Valve, 1999-up bt
4.	Stop, Breather Reed Valve, Packaged, 1984-up bt
5.	Reed, Breather Valve, bt (each)
6.	Screw, Torx BH, 4-40 x 1/4", Black, Alloy Steel (each) 50-0305-S
7.	Wave Spring ,2"0D X 1.6"ID X .375"
8.	Spring Adaptor (for S&S SA Crankcases) (N/S)
0.	spining Adaptor (101 303 3A Crankcases) (11/3) 31-2103"

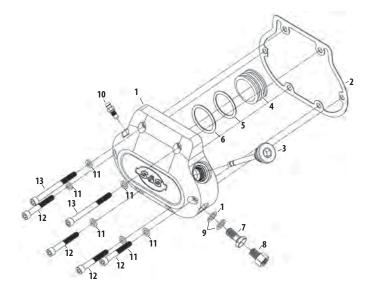
^{*}Required to accommodate the extra .375" case width of S&S Special Application big bore crankcases.

(N/S) = Not Shown



CHROME PLATED BILLET TRANSMISSION SIDE COVER REPLACEMENT PARTS

1. Hydraulic Clutch Side Cover (Chrome Billet)	
Cable Actuated (Chrome Billet)	
2. Gasket Side Cover (eacth)	N/A
3. Dipstick Assembly	N/A
4. Piston, Hydraulic Clutch (Billet)	
5. O-ring, 1 ¼ ID x ½ CS, Buna-N 70 (each)	
6. O-ring, 1 ¼ ID x ¼ CS, Viton	
7. Banjo Bolt 3/8-24 x 3/4	
8. Adapter, Hydraulic Clutch Line	
9. Crush Washer, Copper .400 ID x .590 OD x .050	
10. Valve, Bleed Fitting, 1/4–28	N/A
11. Washer, Flat .260 x .420 x .06 Chrome	
12 pack	
12. Screw, Cap Hex SH 1/4–20 UNC x 1.75 Zinc	
13. Screw, Cap Hex SH 1⁄4-20 UNC x 2.75 Zinc	

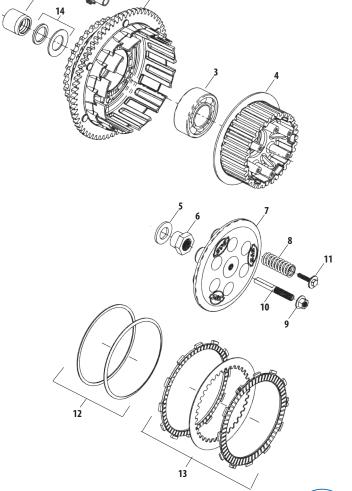


**WARNING: Cancer and Reproductive Harm

HIGH PERFORMANCE CLUTCH REPLACEMENT PARTS

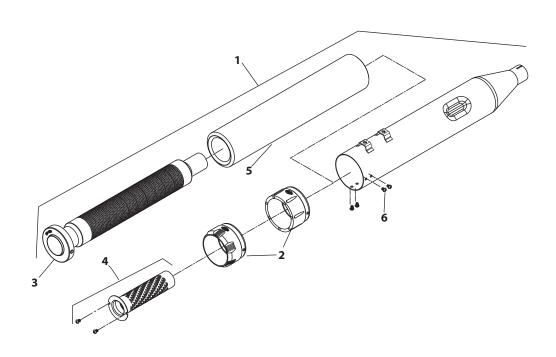
1. Race, inner primary bearing, 5/6 speed main shaft	
All 1991-'05 BT and 2006 Harley-Davidson® Softail®	
	€ 56-5089
2. Basket,	_
Clutch, 36-tooth	@ N/A
Clutch, 37-tooth	🕬 N/A
3. Bearing, clutch (basket to hub)	🗫 N/A
4. Hub, clutch	∂™ •N/A
5. Washer, thrust, 19.5 mm l.D. x 35.6 mm 0.D	N/A
6. Nut, mainshaft, clutch hub, ¾-18 UNS-2B	N/A
(Recommended early style mainshaft nut HD® #37496-84)	
(Recommended late style mainshaft nut HD® #37496-90)	
7. Plate, pressure – clutch	
Mechanical (3-piece pushrod actuated)	N/A
8. Spring, pressure plate, clutch	7.
Light duty, 334 lbs. (6 pack)	
Standard, 370 lbs.	
Heavy duty, 408 lbs. (each)	
9. Nut, flange, M10 x 1.25"	
10. Screw, clutch adjuster, M10 x 1.25"	
11. Bolt, special, M6 x 30, w/washer	
12. Jutter spring with seat	
13. Clutch pack, 11 frictions, 10 steels	
14. Kit, shim, clutch inner race	56-5090
Shim, % speed main shaft	
1.300" O.D. x .960" I.D. x .0075" <i>(36 gauge)</i> thick	
1.300" O.D. x .960" I.D. x .0150" <i>(28 gauge)</i> thick	
1.300" O.D. x .960" I.D. x .0240" <i>(24 gauge)</i> thick	
1.300" O.D. x .960" I.D. x .0470" <i>(18 gauge</i>) thick	N/A
OPTIONAL:	
15. Pinion Gear	N/A

N/A = Not Available



Mk45 4.5" MUFFLER REPLACEMENT PARTS

1.	4.5" Muffler Assembly	
	Left, Chrome	551-0020 [±]
	Right, Chrome	551-0021 [±]
	Left, Black	551-0022
	Right, Black	
2.	Endcap	
	Thruster, Chrome	550-0634A±
	Thruster, Highlighted Machined	
	Tracer, Chrome	
	Tracer, Highlighted Machined	
3.	Main Baffle Assembly, 4.5" Muffler	
4.	dB reducer	551-0026
5.	Insulation, 4.5" Muffler	
6.	Button Head Cap Screw, Stainless, ¼"-20X3%"	500-0441
7.	Hardware Kit, Muffler Clamps And Screws (N/S)	



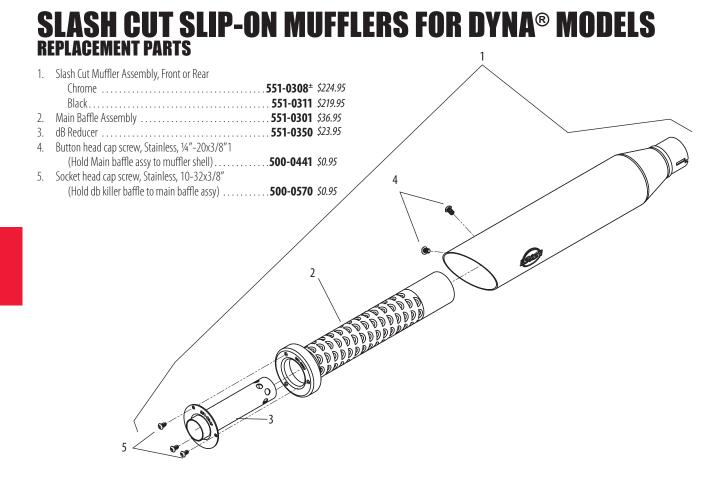
GRAND NATIONAL® 4" REPLACEMENT PARTS

1.	4" Muffler assembly with Grand National Endcap		
	Left, Chrome	551-0055±	
	Right, Chrome	551-0056±	
	Left, Black	551-0057	
	Right, Black		
3.	Endcap (Left and Right)	551-0291	
4.	Main baffle assembly (Left and Right)		
5.	dB reducer baffle (Left and Right)		
6.	Button head cap screw, Stainless, ¼"–20x¾"		
7.	Socket head cap screw, Stainless, 10–32x¾"		
9.	Hardware kit, muffler clamps and screws (N/S)		
		1.	
			\times (λ α /
		3500	6
		5333	
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	5		
	3		
	7 / -		

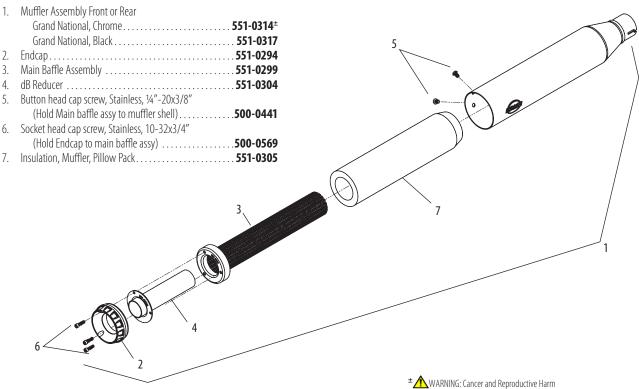
SLASH CUT 4" REPLACEMENT PARTS

1. 2. 3. 4.	4" Muffler assembly Slash Down Left, Chrome	
5. 6.	Button head cap screw, Stainless, 10-32x3/8"	





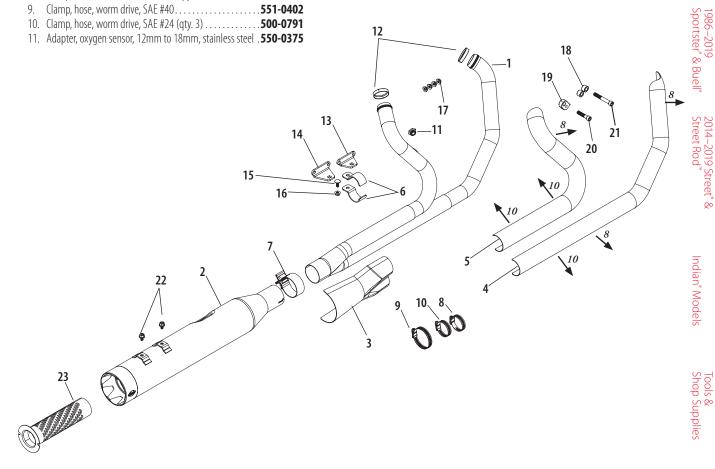
GRAND NATIONAL® SLIP-ON MUFFLERS FOR DYNA® MODELS REPLACEMENT PARTS



SIDEWINDER® 2:1 EXHAUST REPLACEMENT PARTS

1.	Header, Assembly, 2 into 1, Sidewinder", Weldment, 1995-'16 Touring Modelss	551-0705
2.	Muffler, Street Legal	331 0703
۷.	Chrome	551-0529A±
	Black	
3.	Collector, heat shield,	JJ1 0JJ0A
	Chrome	551-0379±
	Black	551-0381±
4.	Heat shield, front, 2:1, Sidewinder®, chrome, 1995-'	
	Chrome	-
	Black	
5.	Heat shield, rear, 2:1, Sidewinder®, chrome, 1995-20	016 touring models
	Chrome	551-0712±
	Black	551-0717±
6.	Clamp, header mount, 2:1, chrome plate, mild steel,	11 gauge,
	M8 2017 touring	
7.	Clamp, muffler, band style, 2.5"	
8.	Clamp, hose, worm drive, SAE #20 (qty. 3)	
9.	Clamp, hose, worm drive, SAE #40	551-0402
10.	Clamp, hose, worm drive, SAE #24 (qty. 3)	500-0791
11.	Adapter, oxygen sensor, 12mm to 18mm, stainless s	

12.	Gasket, exhaust, tapered, stainless steel,	
	1984-up bt, 1986-up xl <i>65324-83B, 65324-83A</i>	106-5029
13.	Bracket, header mount, 2:1, powdercoated, black,	
	2007-'16 touring models	551-0719
14.	Bracket, header mount, 2:1, powdercoated, black,	
	1995-'06 touring	551-0786
15.	Bolt, carriage, 5/16–18 x 3/4"	500-0555
	Nut, HSFH, 5/16–18 unc-2b x .283", Zinc, steel	
17.	Nut, HSFH, 5/16-24 unf-2b x .283", Zinc, steel 7593	. 50-5025-S
18.	Washer, Spacer, Floor Board	551-0400
	Spacer, floor board, powdercoated, black	
20.	Screw, shc, 3/8–16 x 1–3/4", zinc, steel	500-0789
21.	Screw, shc, 3/8-16 x 2-3/4", zinc, steel	500-0790
	Screw, hh, flg, serrated, 5/16–18 x 1/2"	
23.	dB reducer	551-0026



12

POWER TUNE® DUAL HEADER REPLACEMENTS

POWER TUNE® DUAL HEADERS

Fitment	Finish	Part #
1005 /00* h: - ti	Chrome	550-0003A
1995–'08* big twins	Black	550-0142A

*Has 18mm sensor fittings in the stock locations for 2007-'08 bikes. If not equipped with oxygen sensors, the ports can be used for tuning. Plugs are included if ports are not used.

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on EPA pollution controlled vehicles originally equipped with catalyst.

*Qualified manufacturer declared emissions replacement part on FL touring models listed below.

California Models

FL Touring Fuel Injected MY 1995–2003, and 2007 CVO FL Touring MY 2000–2003



POWER TUNE® DUAL HEADER REPLACEMENT PARTS

1. 49 State Models:

FL Touring Fuel Injected MY 1995-2005 and 2007-2008

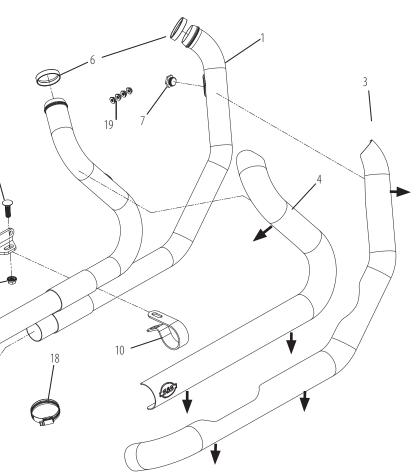
FL Touring Carbureted MY 1995-2005

Pipe, Header, Power Tune Dual, CVO FL Touring MY 2000-2005

	CVO FL Touring MY 2000-2005	
	WARNING: Cancer and Reproductive (1 Reg)	
. 551-0083	Weldment, 1999–2008 Touring	
	2. Tube, Crossover, Power Tune Dual, Weldment,	
. 551-0077	1995–2008 Touring (1 Req)	
	3. Shield, Front, Power Tune Dual, 1995–2008 Touring (1 Req)	
551-0091 [±]	Chrome	
. 551-0092	Black	
	4. Shield, Rear, Power Tune Dual, 1995–2016 Touring (1 Req)	
551-0103 [±]	Chrome	
. 551-0104	Black	
	5. Shield,Left,Power Tune Dual, 1995–2016 Touring (1 Req)	
551-0115	Chrome	

	Chrome	551-0115±
	Black	551-0116
6.	Gasket, Exhaust, Tapered, Stainless Steel,	
	1984-up bt, 1986-up xl <i>65324-83B</i> , <i>65324-83A</i> (2 Req)	106-5029
7.	Plug,M18 x 1.5 Thread (2 Req)	551-0122
8.	Bolt, Carriage, 3/8-16 x 11/4" (1 Req)	500-0553
9	Bracket Transmission Side Power Tune Duals	

10.	Clamp,P-Style,Power Tune Dual,Side,	
	1995–2016 Touring (1 Req)	551-0119
11.	Nut,Flanged,Serrated,%-16 (1 Req)	500-0554
12.	Bracket, Assembly, Transmission, Pan,	
	Power Tune Dual, 1995–2008 Touring (1 Req)	551-0126
13.	Screw,SHC,¼-20 x 17%",Zinc Plated (4 Req)	500-0641
14.	Bolt, Carriage, 5/16–18 x 3/4" (2 Req)	500-0555
15.	Clamp,P-Style,Crossover,	
	Power Tune Dual Header, 1995–2008 Touring (1 Req)	551-0120
16.	Nut, Flanged, Serrated, 5/16"-18 (2 Req)	50-5053-S
17.	Clamp, Muffler, Band Style (1 Req)	551-0569
	Clamp, Hose, Worm Drive, SAE #28 (8 Req)	
19.	Nut, HSFH,5/16-24 <i>7593</i>	50-5025-S



551-0125







NEW FOR SUPERSTREET 2:1 EXHAUST SYSTEM



FITMENT

- 2007—'13 Sportster® models with forward or mid controls (does not fit XR models)
- 2014—'20 Sportster models with forward or mid controls

FEATURES AND BENEFITS

- Classic 2:1 styling with world famous S&S performance!Fits forward and mid controls
- 50 State legal! CARB EO# K-010-12 for 2014—2020 Sportster models Durable high temperature black finish
- Full heat shields on both front and rear headers

- Stainless steel stepped header construction
 Multi-faceted endcap design
 Oxygen sensor ports allow use of wide band or stock O2 sensors
- SAÉ J2825 Sound Level Compliant
- Made in USA!

SUPERSTREET 2:1 EXHAUST SYSTEM

Year/Fitment	Part #
2014—'20 Sportster models with forward or mid controls	550-0952A
2007—'13 Sportster® models with forward or mid controls (does not fit XR models)	550-0951 ⁺⁺

[†]Exempt from emissions tampering regulations under CARB EO# K-010-12 for all 2014-2020 Sportster Models



^{††*}Qualified manufacturer declared U.S. 50-State legal emissions replacement part on all MY 2007-2013 Sportster models

STEALTH AIR CLEANER KITS

FITMENT

• 1991—2019 Harley-Davidson® Sportster® models

FEATURES AND BENEFITS

- Pre-filter available See page 254
- Air directional stinger cone in the filter
- Use with any of several S&S designed covers
- High flow (1" taller) filter kit available See page 254



STEALTH TEARDROP AIR CLEANER KIT

KIT INCLUDES STEALTH AIR CLEANER 170-0302D WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Application	Fuel System	Finish	Part #
2007 110	C. LEE	Chrome	170-0526A
2007–'19 xl	Stock EFI	Gloss Black	170-0527A

± ★ WARNING: Cancer and Reproductive Harm —



MINITEARDROP AIR CLEANER KIT

KIT INCLUDES STEALTH AIR CLEANER 170-0302D WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Application	Fuel System	Finish	Part #
2007 110 vl	Stock Bore Throttle Body	Chrome	170-0439B±
2007–'19 xl		Gloss Black	170-0440B

*WARNING: Cancer and Reproductive Harm



AIR 1 AIR CLEANER KIT

KIT INCLUDES STEALTH AIR CLEANER 170-0302D WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Application	Fuel System	Part#
2007-'19 xl	Stock EFI	170-0492B



TRI-SPOKE AIR CLEANER KIT

KIT INCLUDES STEALTH AIR CLEANER 170-0302D WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Application	Fuel System	Part#
2007-'19 xl	Stock EFI	170-0490B



TORKER AIR CLEANER KIT

KIT INCLUDES STEALTH AIR CLEANER 170-0302D WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Application	Fuel System	Part#
2007-'19 xl	Stock EFI	170-0491B



AIRSTREAM AIR CLEANER KIT

KIT INCLUDES STEALTH AIR CLEANER 170-0302D WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Application	Fuel System	Finish	Part #	
2007-'19 xl	Stock EFI	Chrome	170-0493B±	
		Gloss Black	170-0494B	

± ★ WARNING: Cancer and Reproductive Harm

STEALTH AIR CLEANER KITS

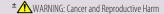




MUSCLE AIR CLEANER KIT

KIT INCLUDES STEALTH AIR CLEANER 170-0302D WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27

Application	pplication Fuel System Finish Part #		Part #
2007-'19 xl	Stock EFI	Chrome	170-0495B±
		Gloss Black	170-0496B



STEALTH AIR CLEANER KIT*

EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS

Application	Fuel System	Part #
2007-'19 xl	Stock EFI	170-0302D

^{*}These kits do not contain covers — Use an S&S cover, see page 251.

NOTES

Fuel injection tuning is not required with this product.

REPLACEMENT PARTS: SEE PAGE 297

MINITEARDROP AIR CLEANER KIT

Fitment	Fuel System	Finish	Part #			
1991–2003 xl	COC Cupar F/C	Chrome	170-0447 [±]			
1991–2003 XI	S&S Super E/G,	Gloss Black	170-0448			
1991–2006 xl	Stock CV Carb	Chrome	170-0449 [±]			
1991-2000 XI	Stock CV Carb	Gloss Black	170-0450			

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AIRSTREAM IN CHROME AIR CLEANER KIT*

Application	Fuel System	Part#
1991–'06 xl	Stock CV/EFI	170-0053
1991–'03 xl	S&S Super E & G Carbs	170-0114

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**WARNING: Cancer and Reproductive Harm



MUSCLE IN CHROME AIR CLEANER KIT±

Application	Fuel System	Part#
1991–'06 xl	Stock CV/EFI	170-0096
1991–'03 xl	S&S Super E & G Carbs	170-0117

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STEALTH AIR CLEANER KITS* — NO COVER

1	Application	Fuel System	Part#
Ĭ	1991–'06 xl	Stock CV	170-0093
	1991-'03 xl	S&S Super E & G Carbs	170-0113

*These kits do not contain covers—Use an S&S cover, see page 251 r. DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on any EPA pollution controlled motor vehicle.

EC STEALTH AIR CLEANER KITS

2007—2019 883 Harley-Davidson Sportster® Models with EFI (e9 11003G)
 2007—2019 1200 Harley-Davidson Sportster Models with EFI (e9 11002G))

EC STEALTH AC KITS

EC STEREIT RC RITS	
Year/Fitment	Part #
2007–2019 / EFI xI 883	170-0329
2007–2019 / EFI xl 1200	170-0330

2007–2017 Twin Cam 96"/103"/110"

STEALTH AIR CLEANER KIT COVERS **INCLUDING NEW STEALT**













Mini in Gloss Black Tri-Spoke

Torker







Air 1

Airstream in Chrome

Muscle in Gloss Black

STEALTH COVERS

NEW FOR 2020 Tribute		Teardrop		Teardrop—Slasher		Carbon Fiber	Mini	
Chrome	Gloss Black	Chrome	Gloss Black	Chrome	Gloss Black	Black	Chrome	Gloss Black
170-0592	170-0593	170-0530	170-0531	170-0532	170-0533	170-0501	170-0367	170-0366

Tri-Spoke	Torker	Air 1	Airstream		Muscle	
Gloss Black w/Highlights	Gloss Black w/Highlights	Gloss Black w/Highlights	Chrome	Gloss Black	Chrome	Gloss Black with Highlighted Logo
170-0210	170-0206	170-0214	170-0118 170-0396		170-0121	170-0463

Displacement				
111	124	143		
170-0319	170-0321	170-0323		



SINGLE BORE TUNED INDUCTION SYSTEM

FITMENT

• 1991–'19 Harley-Davidson® Sportster® (with stock CV carb or EFI, or S&S carb)

FEATURES AND BENEFITS

- Bolt-on performance—over twice the filtering area over stock intake system
- Increases horsepower and torque across the rpm range using air column inertia and carefully timed gas dynamic pressure waves
- Smooth intake tract of carefully selected tuned lengths increases performance
- High flow washable and reusable cotton media provides performance, protection, and economy





Billet adaptor brackets make single bore tuned induction compatible with many engines and motorcycles.

SINGLE BORE TUNED INDUCTION SYSTEM KITS*

EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS



EXEMPT FROM EMISSIONS TAIMPERING REGULATIONS UNDER CARD EU# D-555-27 FOR ALL FUEL INJECTED MODELS						
Fitment	Fuel System	Finish	Part #			
2007–′19 xl	Stock EFI	Chrome Runner and Red Filters	170-0311D			

**WARNING: Cancer and Reproductive Harm

SINGLE BORE TUNED INDUCTION SYSTEM KITS

Fitment	Fuel Delivery	Finish	Part #	MSRP
1991–′06 xl	Stock CV	Chrome Runner and Red Filters	170-0089±	\$642.95
CTO	Specify	Specify	106-5337*	Call for Pricing

^{*}Use the Configure to Order (CTO) part number to order different finish and filter color.

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on any EPA pollution controlled motor vehicle.

REPLACEMENT PARTS: SEE PAGE 300

^{**}WARNING: Cancer and Reproductive Harm

CLASSIC TEARDROP AIR CLEANER KIT

FITMENT

- 1986—'17 Harley-Davidson® Sportster®1994—'02 Buell®

FEATURES AND BENEFITS

- Uniquely designed back plate has air horn style radiused entryway to reduce turbulence
- Dimpled cover with directional air cone on inside creates smooth path for air
- Great addition to performance exhaust or cams

KIT CONTENTS

- Teardrop Air Cleaner Cover in Chrome or Gloss Black
- Filter
- Backing plate
- All mounting hardware



REPLACEMENT PARTS STARTING ON PAGE 298

	CLASSIC TEARDROP AIR CLEANER KITS FOR SPORTSTER® MODELS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-27 FOR ALL FUEL INJECTED MODELS					
	Model	Finish	FUEL SYSTEM			
CARB			Stock EFI			
Compliant FO #D-355-27	2007-'19 xl	Chrome	170-0306D±			
- LO #D-5333-27		Gloss Black	170-0307D			
	± ⚠ WARNING: Cancer and Re					

CLASSIC TEARDROP AIR CLEANER KITS FOR SPORTSTER® AND BUELL® MODELS

Madel	Finish		FUEL DELIVERY TYPE					
Model	Finish	Stock CV	Super E & G					
2004–2017 xl	Chrome	17-0448 [±]	17-0428 [±]					
	Gloss Black	170-0182A	-					
4004 104 1108 6 1 1 1	Chrome	17-0448 [±]	17-0404 [±]					
1991–'06 HD® Carbureted xl	Gloss Black	170-0182A	-					
1988–′90 xl	Chrome	-	17-0399±					
1986–′87 xl	Chrome	-	17-0399±					

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Fuel delivery (carbureted or EFI) may need to be modified to maintain the correct air and fuel mixture



CLASSIC TEARDROP AIR CLEANER COVERS

Style	Finish	Part #
Classis Taawdwan	Chrome	17-0378 [±]
Classic Teardrop	Gloss Black	170-0384A
Clash an Tasandora	Chrome	17-0004 [±]
Slasher Teardrop	Gloss Black	170-0419
Nostalgic Teardrop	Polished	17-0071

**WARNING: Cancer and Reproductive Harm



PRE-FILTERS

FITMENT

S&S® Stealth Air Filters

FEATURES AND BENEFITS

- Water resistant
- Prevents large debris from prematurely clogging filter
- Washable Nylon
- Promotes longer filter life
- Reduces the risk of water entering air intake system

PRE-FILTERS

Application	Part #
Standard Stealth Air Filter	170-0193
1" Tall Stealth Air Filter	170-0197



170-0197

HIGH FLOW AIR FILTER KITS

FITMENT

• S&S Classic Teardrop air cleaners for Super E & G carbs and S&S EFI throttle bodies

FEATURES AND BENEFITS

- Low restriction filter element comes pre-oiled for true plug and play installation
- 1" wider filtration area provides up to 37% more airflow over standard S&S filters
- Resulting band of exposed filter material imparts a high performance look

KIT CONTENTS

- Wide filter
- · Filter spacers



Description	Fitment	Part #
High Flow Air Filter Kit	Classic Teardrop	17-0045
(includes spacers)	Stealth, 1" Taller	170-0127*
1" Tallow Filton Only	Classic Teardrop	106-4724
1" Taller Filter Only	Stealth	170-0154
Spacer	Classic Teardrop & Stealth, 1" Taller	50-5009-S

^{*}DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on any EPA pollution controlled motor vehicle.





STANDARD REPLACEMENT FILTERS

STANDARD REPLACEMENT AIR FILTERS

Description	Fitment	Part #
Standard Filter Only	Classic Teardrop	106-4722
	Stealth	170-0126

PERFORMANCE KIT OVERVIEW FOR HARLEY-DAVIDSON® SPORTSTER® & BUELL® MODELS



1250CC CONVERSION KIT

This is the largest big bore kit S&S offers for Harley-Davidson® Sportster® models, that can be bolted directly to stock crankcases. Quick and easy to install. Fast on the strip. Over 90 hp typical with S&S exhaust, cams, and CNC ported heads — Using the stock fuel system! (See page 257)



883 TO 1200CC CONVERSION KIT

Boost any 883cc Harley-Davidson® Sportster® to 1200cc. No machine shop? No problem, no machining is needed. Don't want to rebalance your stock 883cc flywheels? You don't need to since these pistons weigh the same as stock 883 pistons. Cylinder head modification is also not needed. The dished piston dome keeps compression down to a streetable 9.4:1 with stock 883cc heads. Installing this kit takes the same time as replacing a stock top end. It's just more fun when you're done. (See page 258)



HOOLIGAN KIT

Whether you're racing Hooligan flat-track or just want more power, the S&S Hooligan kits for 2000-'20 Harley–Davidson® Sportster® models will give you an edge on the competition. Boost that 883 to 1200cc. Already running a 1200? Bring it up to 1250cc. Bolt on big bore kits mean easy installation with no machining and no rebalancing. S&S bolt-in cams and premium tappets make the most of the added displacement. (See page 256)

HOOLIGAN KITSFOR 2000–2020 HARLEY-DAVIDSON® SPORTSTER® MODELS

FITMENT

• 2000—'20 Harley-Davidson® Sportster® models

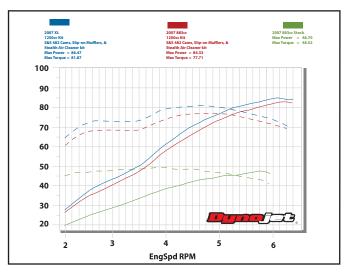
FEATURES & BENEFITS

- Easy installation—Bolt-on parts—no machining, no rebalancing
- S&S 482 Cams
- Increase 883cc engines to 1200cc
- Increase 1200cc engines to 1250cc
- Use stock heads, pushrods, and fuel system*
- Available in wrinkle black or silver powder coat that matches stock finish

HOOLIGAN KITS

Kit	Finish	Part#
883cc to 1200cc	Wrinkle Black	910-0699
883cc to 1200cc	Silver	910-0700
1200cc to 1250cc	Wrinkle Black	910-0701
1200cc to 1250cc	Silver	910-0702

DISCLAIMER: FOR CLOSED COURSE COMPETITION USE ONLY. NOT INTENDED FOR STREET USE. *For maximum performance gains use with S&S Stealth air cleaner and S&S Slip-on mufflers. LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES WHICH MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR USE, UPON A HIGHWAY.



This dyno chart from our DynoJet® 250i chassis dyno, makes is easy to see why S&S Hooligan kits raise the fun factor and give you a competitive edge. The S&S 1200cc kit with stock 883 heads increases horsepower by 80% over the original stock 883cc engine. The 1250cc kit shown here had 1200 heads. Stock 883 heads cannot be used on the 1250cc kit. Even more power is available with the S&S CNC cylinder head porting service. Do you want to win, or are you just along for the ride?

This kit is not compatible with the stock ignition.



1250cc CONVERSION KIT FOR 1986–2020 1200cc HARLEY-DAVIDSON® SPORTSTER® MODELS

FITMENT

- 1986—2020 1200cc Harley-Davidson® Sportster® models
- 1986—2020 883cc Harley–Davidson Sportster models

FEATURES & BENEFITS

- Forged pistons coated piston skirts with measurement window
- Stock 1986—2020 1200cc cylinders can be bored over to accept these pistons
- Pistons have larger than stock valve pockets accepts up to 2.00" valves

OPTIONS

- Silver powder coat finish
- Wrinkle black powder coat finish

KIT CONTENTS

- S&S 1250cc pistons w/rings and wristpins
- S&S 3%6" bore cylinders
- MLS head, base, and exhaust gaskets
- Assembly lube
- Instructions



910-0692

1250cc CYLINDER AND PISTON CONVERSION KITS

Fitment	Piston Type	Compression Ratio	Finish	Part #	
1986–2020 Sportster®	COC Found Flot ton	10.2.1	Silver	910-0689	
	S&S Forged Flat top	10.3:1	Wrinkle Black	910-0691	
	S&S Forged 5.5cc dome	11.2:1	Silver	910-0690	
			Wrinkle Black	910-0692	

^{*}The cylinder fin profile does not perfectly match the fins on 2004 and later stock heads, but the difference is not considered to be objectionable. See Photos. Compression ratios given are with 60cc combustion chambers.

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Can not run stock 883 cylinder heads with this kit. 883 heads may be used if S&S CNC porting is performed. PN 909-0011

The cylinder fin profile does not perfectly match the fins on 2004 and later stock heads, but the difference is not considered to be objectionable. See photo.

S&S does not recommend boring 2004 and later 883cc cylinders from 3" to 3½" bore to increase engine displacement to 1200cc due to changes in factory cylinder and liner. A smaller 0.D. liner and large chamfer on the bottom of the spigot make boring the 883 cylinder not possible. New cylinders are recommended.

This kit is not compatible with the stock ignition.



S&S cylinders match the fin profile on 1986—'03 cylinder heads. Although there is a slight difference in the fin profiles of S&S cylinders and stock 2004—'20 cylinder heads (shown above), the look is generally not considered to be objectionable. You decide!

883 TO 1200cc CONVERSION KIT FOR 1986-2020 883CC HARLEY-DAVIDSON® SPORTSTER® MODELS

FITMENT

• 1986—2020* 883cc Harley-Davidson® Sportster® models (*See photos)

FEATURES & BENEFITS

- Increase displacement from 883cc to 1200cc
- Save time because pistons are already fit to the cylinders—Ready to assemble out of the box!

- No rebalancing of 883cc flywheels No cylinder head modifications
- Durable powder coat finish
- 9.6:1 Compression ratio
- Must be used with 883 heads

OPTIONS

- Silver powder coat finish
- Wrinkle black powder coat finish

KIT CONTENTS

- S&S 883—1200cc conversion pistons w/rings and wristpins
- S&S 106-5548 piston kit—11.2cc dish volume S&S 3½" Bore Cylinders
- Cylinder head, base, and exhaust gaskets
- Assembly lube
- Instructions

883cc TO 1200cc CYLINDER AND PISTON CONVERSION KITS

Fitment	Finish	Part #	
1986–2020 883cc Sportster®	Silver Powder Coat	910-0688	
	Wrinkle Black Powder Coat	910-0687	

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910-0687



S&S cylinders match the fin profile on 1986—'03 cylinder heads. Although there is a slight difference in the fin profiles of S&S cylinders and stock 2004 – '20 cylinder heads (shown above), the look is generally not considered to be objectionable. You decide!

Twin Cam

cter[®] Models

FITMENT

- 1986—'03 Harley-Davidson® Sportster®
 1994—'02 Harley-Davidson® Buell®

FEATURES AND BENEFITS

- Available in three displacements, for four-speed (1986—'90) and five-speed (1991—'03) models, and in natural aluminum and black powder coat finish.
 Requires that the crankcase cylinder spigot holes be bored to accept the larger
- cylinders
- Complete instructions are provided for this machining operation, and S&S has special tools available that simplify the crankcase boring procedure. See Section 11 in this catalog for more information



S&S° SIDEWINDER° BIG BORE KIT SPECIFICATIONS FOR 1986–'03 HARLEY-DAVIDSON° SPORTSTER® MODELS							
Displacement Application Stroke Bore Compression Ratio Piston Type Cylinder Leng						Cylinder Length	
79" Sportster** 1986 to 2003 3 ¹³ / ₁₆ "		35%"	#	Forged	Stock		

‡ Compression ratio depends on cylinder head type used. If stock heads are used extensive cylinder head modifications must be performed, making compression ratios completely dependent on final combustion chamber volume.

SIDEWINDER® BIG BORE KITS FOR 1986-'03 HARLEY-DAVIDSON® SPORTSTER® MODELS

Displacement	Stroke	Bore	Application	Part #
1295cc (79")**	313/16"	3%"	1986 to 2003	91-3002

^{**}This kit has stock height cylinders and will fit Buell® motorcycles.

PARTS INCLUDED IN S&S® SIDEWINDER® BIG BORE KITS FOR 1986—'03 HARLEY-DAVIDSON® SPORTSTER® MODELS												
Displacement	nent Stroke Part# Flywheel Pistons Cylindo				Gaskets		Head	Head Mount		December of a	Manifold	
vispiaceillelli	Stroke	rail#	Assembly	Pistons Cylinders —	Head	Base	Bolt	Center	Front	Pushrods	Manifold	
1295cc (79")	313/16"	91-3002		Forged	•	•	•					

This kit is not compatible with the stock ignition.

FITMENT

• 1986—'03 Harley-Davidson® Sportster®

FEATURES AND BENEFITS

- Bolt-in replacement for stock engines
- "Square" motor configuration (equal bore and stroke) produces excellent torque, greatly increases engine life
 S&S Super G carburetor with Classic Teardrop air cleaner
 S&S high flow Super Stock® cylinder heads
 High strength supreme rods, S&S cylinders, and forged pistons

- Adjustable pushrods and pushrod cover assemblies
 Hydraulic tappets and S&S forged roller rocker arms
 S&S billet gear cover kit and billet aluminum rocker covers
- Now includes oil pump and oil filter mount

KIT CONTENTS

- Assembled SB100 engine
- Instructions



S&S® SB100 ENGINE SPECIFICATIONS								
Displacement	Bore	Stroke	Cylinder Length	Camshaft	Piston Type	Compression Ratio	Fuel Delivery	Warranty Period
100"	4"	4"	4.420"	600	S&S forged	10.3:1	S&S Super G Carb	1 year parts only

COMPLETE SB100 ENGINES FOR SPORTSTER® MODELS

Application	Part #	
SB100 for Sportster	31-9891	

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Requires 1991–'03 style primary components and transmission. Will not accept 1986–'90 4 speed transmission, charging system or primary components.

Primary components, starter charging system, ignition system, and transmission components are not included.

CRANKCASESFOR 1986–'03 SPORTSTER® AND BUELL® MODELS

FITMENT

- 1986—'03 Harley-Davidson® Sportster® and Buell®
- S&S SB-Series engines

FEATURES AND BENEFITS

- Super strong for high performance engines
- Crankcases come complete with all required bearings and hardware
- Replaceable tappet guides for all year groups

OPTIONS

- Special Application (SA) Cases
 - Choice of cam geometry—1986-'90 (4-speed) or 1991-'99 (5-speed)
 3%" bore to 4½" bore

 - Up to 1" taller cylinder deck height
 - Machined for stock, big twin, or S&S 1.500" diameter sprocket shafts

KIT CONTENTS

- · Crankcase assembly
- Billet tappet guides
- Bearings and hardware
- Transmission trapdoor
- · Oil filter mounting bracket



ANY JOB IS EASY WITH THE RIGHT TOOLS **S&S DEGREE WHEEL, SEE PAGE 331**

SPECIAL APPLICATION CRANKCASES FOR 1986—'03 FOR HARLEY-DAVIDSON® SPORTSTER® & 1994—'02 BUELL® MODELS

Engine	Cam Geometry	4" Bore	
Sportster/Buell	1986–'90	31-1012 31-1012NS	

- All S&S crankcases use 5-speed transmission and primary components.
 - These cases will not accept 4-speed transmission.
 - Not compatible with stock flywheel assemblies.
- •Since S&S Special Application crankcases are .500" wider than stock, they require part #33-2329 + .500" pinion shaft and S&S Special Application tappet quides.
- Requires use of S&S cam cover gasket. (Part #31–2099).
 - 1991–'03 cases require 1991–'96 gearcovers.

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If transmission and primary do not share the same lubricant, it is vital to ensure that both the primary and the transmission are filled with the correct lubricants.

REPLACEMENT PARTS: SEE PAGE 292

FLYWHEELS FOR 1986-'99 HARLEY-DAVIDSON® SPORTSTER® AND 1994-'97 BUELL® MODELS

FITMENT

- 1986—'99 Harley-Davidson® Sportster®
 1994—'97 Buell®
- S&S SB-Series engines

FEATURES AND BENEFITS

- CNC machined from heat-treated, closed die, steel forging
- Stronger than cast iron or late style steel flywheels
- 5-piece design—easily rebuilt with standard flywheel fixtures and tools
- Unassembled balanced flywheels are balanced by the static method

FLYWHEEL ASSEMBLIES FOR 1994-'97 BUELL® MODELS

S&S flywheels for two-cylinder 1994—'97 Buell models. Although similar to flywheels for Sportster® models, these flywheels are knife edged and lightened. This design offers these advantages:

- Knife edging is a proven design used in race motors to make the flywheels "shed" oil more quickly to reduce drag at high rpm.
- Knife edging and lightening increases effective crankcase volume and reduces the flywheel assembly weight by 2–4 lbs. Increased crankcase volume results in better oil control, effectively reducing friction and heat, as well as helping to control oil carry over. Reduced weight results in faster revving and higher top rpm capability.
- All S&S flywheels for Sportster and Buell models feature removable mainshafts for easy rebuilding. In addition, the S&S pinion shaft is the 1986—'87 splined design, which is much stronger than the stock pinion shaft, allowing the use of higher lift cams and stronger valve springs.



TRYING TO IDENTIFY AN S&S® FLYWHEEL? **SEE FLYWHEEL I.D. CHART IN THE APPENDIX: PAGE 346**

REPLACEMENT PARTS: SEE PAGE 291

OPTIONS

- Stock replacement or stroker flywheels for high performance upgrade
- Available in a wide variety of styles and strokes
- Available balanced or unbalanced
- Available assembled or unassembled by special order

KIT CONTENTS

- Flywheels
- · Pinion shaft and sprocket shaft
- Optional connecting rods



Lightened flywheels are not recommended for Sportster models with solid mounted engines due to increased vibration and loss of low rpm torque.

S&S pinion shafts for 1986–'03 Sportster® models are the splined 1986–'87 style.

Pinion and oil pump drive gears in 1988–'03 models must be replaced with early style gears. See page 268

Complete S&S Flywheel assemblies will fit up to 1999 model year engines. However, the flywheels are compatible with stock crankpins up to 1999 only.

Stock stroke flywheels are balanced to stock weight pistons

These flywheels will not fit 1998-up Buell® models.

REPLACEMENT FLYWHEEL ASSEMBLIES FOR HARLEY-DAVIDSON® SPORTSTER® MODELS

Year Group Displacement		Stroke	Flywheel Diameter	Part#
1006 100	1200cc (Stock)	3 ¹³ / ₁₆ " (Stock)	7%" (Stock)	320-0052
1986–'90	S&S 89" SW Kit	45/16"	7%" (Stock)	32-3061
1001 100	1200cc (Stock)	3 ¹³ / ₁₆ " (Stock)	7%" (Stock)	320-0053
1991–'99	S&S 89" SW Kit	45/16"	7%" (Stock)	32-3062
Special Order*	Specify	Specify	Specify	32-3014*

Application	Stroke	Flywheel Diameter	Part #	MSRP
Special Order For Buell*	Specify	Specify	32-3014*	Call for Pricing

BILLET GEARCOVERS FOR SPORTSTER® AND BUELL® MODELS

BILLET GEARCOVER KITS — STANDARD*

Bushing Style	Part #
1986–'90 style bushing	31-0303

±**⚠**WARNING: Cancer and Reproductive Harm



Product	Part #	MSRP
Gearcover Gasket	31-2052	\$8.95
Cam Seal 11124	31-4051	\$18.95



All reference to HD® part numbers is for identification purposes only. We in no way are implying that any of S&S Cycle's products are original equipment parts or that they are equivalent to the corresponding HD® part number shown.

BILLET FILTER MOUNT

FITMENT

- 1986—'87 Harley-Davidson® Sportster® models
- S&S SB-Series engines
- S&S crankcases for Sportster and Buell® models

FEATURES AND BENEFITS

- Accepts stock oil pressure sending switch
- Machined for easy routing of an oil cooler
- Seals off cam chest, providing a convenient place to spin on an oil filter

BILLET FILTER MOUNT*

Fitment	Part #
1986—'87 Harley-Davidson® Sportster® S&S SB-Series engines	106-3134
S&S crankcases for Sportster and Buell®	

**WARNING: Cancer and Reproductive Harm

CYLINDERS WITH PISTONS KIT

- Cylinders with piston kits include fitted pistons and cylinders, head gaskets, base gaskets, and exhaust gaskets
- Cylinder kits with pistons are honed to fit the pistons included



S&S® 4" BORE CYLINDERS WITH PISTONS KIT SPECIFICATION CHART							
Cylinder Piston COMPRESSION RATIO							
Displacement	Stroke	Length	Deck Height	Low Compression* Heads 85cc	High Compression* Heads 76cc		
100" 4" 4.420" 1.200" 9.6:1 10.3:1							
*01" and 100" engines for Sportster models tunically use heads with 76cc chambers for high compression and 85cc chambers for law compression							

4" BORE CYLINDERS WITH PISTONS FOR 100" KIT

Displacement	Description	Finish	Part#
100"	Cylinder with Piston Set	Natural	91-3031





S&S® 35%" BORE CYLINDERS WITH PISTONS KIT SPECIFICATION CHART						
Compression Ratio						
Displacement St	Stroke	Length	Height	S&S Super Stock® Heads - Low/Intermediate/High	Stock Heads	
1458cc (89")	45/16"	5.087"	1.200"	9.5/10.3/12.4	*	
1688cc (103") 5" 5.750" 1.200 10.9:1/11.8:1/14.2:1 *						
*Compression ratio v	*Compression ratio will be determined by the combustion chamber modifications					

35/8" BORE CYLINDERS WITH PISTONS FOR 89" KIT

	CYLINDERS W/PISTONS (SET)				
Displacement	Low Compression (92-1080 series pistons)	Intermediate Compression (92-1120 series pistons)			
	Natural	Natural			
1458cc (89")	91-3207	91-3208			



S&S® 3%16" BC	S&S® 3%6" BORE CYLINDERS WITH PISTONS KIT SPECIFICATION CHART								
Displacement	Stroke	Cylinder Length	Dome Volume	Piston Deck Height	Compression Ratio S&S Heads				
1250cc	313/16"	4.650"	Flat Top	1.208"	10.3:1				
123000) -716 	4.030	5.5cc	1.200	11.2:1				

3%6" BORE CYLINDERS WITH PISTONS FOR 1250CC KIT

Displacement	Piston Type	Silver	Wrinkle Black
1350	S&S Forged Flat Top	910-0689	910-0691
1250cc	S&S Forged 5.5cc Domed	910-0690	910-0692

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on any EPA pollution controlled motor vehicle.



S&S® 3½" BORE CYLINDERS WITH PISTONS KIT SPECIFICATION CHART							
Displacement Str	Ctualca	Cylinder Length	Distan Dack Haight	COMPRESSION RATIO			
	Stroke		Piston Deck Height	S&S Heads	Stock Heads		
1200cc	313/16"	4.650"	1.208"	10.5:1	9.6:1		

910-0688

3½" BORE CYLINDERS WITH PISTONS FOR 1200CC & 883CC KITS

Displacement	Silver	Wrinkle Black
1200cc, 1986-2003 Sportster®, 1994-'02 Buell® Models with S&S® Heads	910-0694	910-0696
883cc (conversion to 1200cc), 1986-2020*Sportster® models	910-0688	910-0687

^{*}The cylinder fin profile does not perfectly match the fins on 2004 and later stock heads, but the difference is not considered to be objectionable. See Photos on page 258
DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on any EPA pollution controlled motor vehicle.



ALL OTHER SPECIFICATIONS AND FINISHES ARE AVAILABLE THROUGH SPECIAL ORDER 91-3604* Call for Pricing



Stock crankcases must be machined to accommodate the larger spigot diameter.

Combustion chamber modifications must be made to stock cylinder heads to reduce compression.

CYLINDERS

- Cylinder sets without pistons are bored slightly under normal size and are not honed.
- · Include dowel pins

4" BORE CYLINDERS

Displacemer	nt	Natural
100"	Set	91-3030

3%16" BORE CYLINDERS

Displacement		Silver	Wrinkle Black	
1200сс	Set	910-0693	910-0697	

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[565]

31/2" BORE CYLINDERS

Displacemen	nt	Silver	Wrinkle Black	
1200сс	Set	910-0698	910-0695	



ALL OTHER SPECIFICATIONS AND FINISHES ARE AVAILABLE THROUGH SPECIAL ORDER 91-3604* Call for Pricing

OTES

Stock crankcases must be machined to accommodate the larger spigot diameter. \\

Combustion chamber modifications must be made to stock cylinder heads to reduce compression.

PISTON KITS

• Piston kits include set of pistons, rings, wristpins, and clips

4" BORE FORGED PISTON KITS

Displacement	Deck Height	Stroke	Standard	+.010"	+.020"
100"	1.200"	4"	92-1420	92-1421	92-1422

Recommended piston fitment: Close: .0020"-.0025" Loose: .0032"-.0045"

3%" BORE FORGED PISTON KITS FOR STOCK HEADS

Displacement	Deck Height	Stroke	Standard		+.010"	+.020"	+.030"	+.040"	
1458cc (89")	1.200"	45/16"	02 10 40	92-1941	02.1042	97-1943	92-1944		
1688cc (103")	1.200"	5"	92-1940		92-1941	92-1942	92-1943	92-1944	

Recommended piston fitment: Close: 0.0015"-0.0020" Loose: 0.0030"-0.0040"

35%" SUPER STOCK® FORGED LOW COMPRESSION PISTON KITS

Displacement	Deck Height	Stroke	+.010"	+.030"	+.040"	
1458cc (89")	1.200"	45/16"	02 1001	02 1002	02 1004	
1688cc (103")	1.200"	5"	92-1081	92-1083	92-1084	

35/8" SUPER STOCK® FORGED MEDIUM COMPRESSION PISTON KITS

570 SOLEMBIOCK TORRED MEDICIN COMMINISTRATION KILD							
Displacement	Deck Height	Stroke	+.020"				
1458cc (89")	1.200"	45/16"	92-1122				
1688cc (103")	1.200"	5"	92-1122				

Recommended piston fitment: Close: 0.0023" - 0.0025" Loose: 0.0035" - 0.0045"



PISTON KITS con't

3%16" BORE FORGED PISTON KITS

Displacement	Dome Volume	Deck Height	Stroke	Standard
1250cc	Flat Top	1.207"	313/16"	920-0070
123000	5.5cc	1.207"	313/16"	920-0071

DISCLAIMER: FOR CLOSED COURSE COMPETITION USE ONLY. NOT INTENDED FOR STREET USE.

LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES WHICH MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR USE, UPON A HIGHWAY.

31/2" BORE FORGED PISTON KITS

Cylinder Heads	Deck Height	Stroke	Standard	+.010"	+.020"
S&S® Super Stock®	1.1875"	313/16"	92-2016	92-2017	92-2018
Stock 883cc	1.207"	317/16	106-5548	106-5549	106-5550

Recommended piston fitment: Close: 0.0025" -0.003" Loose: 0.0030"-0.0040"

REPLACEMENT PARTS FOR PISTONS

PISTON RINGS, CHROMOLY FACED

Bore	4"	25/11	2.0/ !!	3½"		
		35%"	3 %16"	S&S® Heads	Stock 883cc Heads	
Deck Height	1.200	1.200	-	1.1875"	1.207"	
Standard	94-1300X	94-1210X	940-0042*	94-2216X 21921-83	94-2206X 2234-78A, 22334-78B, 21920-83	
+.005"	-	-	-	94-22165X 21921-83	-	
+.010"	94-1301X	94-1211X	-	94-2217X	94-2207X 22334-784, 22334-78B, 21920-83	
+.020"	94-1302X	94-1212X	-	94-2218X	94-2208X 22336-788, 21923-83	
+.030"	-	94-1213X	-	94-2219X	94-2209X 22336-788, 21923-83	
+.040"	_	94-1214X	_	_	_	
+.060"	_	94-1216X	_	_	_	

^{*}Clips and pins not available.

WRISTPINS

Bore	Description	Part #	
4"			
3%"	Wristpin .792" x 2.825"	94-9256 (ISA _{1,2}	
3½"		1,2	

KEEPERS

Boi	re	Description		Part #
4"			each	94-9254-S
35/8	=	Keeper 22589-83A	2 pack	94-9254-2
3½	."	22309-03A	4 pack	94-9254

All reference to HD® part numbers is for identification purposes only. We in no way are implying that any of S&S Cycle's products are original equipment parts or that they are equivalent to the corresponding HD® part number shown.

CAMSHAFTS

FITMENT

- 1986—'20 Harley-Davidson® Sportster® models
- 1994-'02 Buell® models

APPLICATIONS

5&5 482: Bolt-in cam for 2004—'19 models only. Recommended for S&S 883 to 1250 conversion kits. Best performance gains 3500-6500 rpm. Compatible with stock valve springs and stock non-adjustable pushrods.

S&S 500: Bolt-in cams that provide excellent torque with stock or ported heads. Recommended for modified engines up to 89" displacement and 9.0:1 to 10.5:1 compression ratio. Will work in 89" to 100" engines with less than 9.0:1 compression. Normal clearancing checks recommended. 2000–6000 rpm. Works with stock valve springs and stock non-adjustable pushrods.

S&S 555: Recommended for 89"-100" engines with 9.5:1 to 11.5:1 compression ratio. Provides best performance from 3500-6500 rpm using ported stock heads or S&S heads. Requires adjustable pushrods, spring spacing or high lift valve springs, and normal clearance checks.

S&S 600: The standard cam included in 4" bore S&S engines. For engines larger than 89" with 9.5:1 to 10.5:1 compression ratio and S&S heads. Great addition to a S&S 103" Sidewinder® kit. Requires adjustable pushrods, crankcase clearancing and high lift valve springs. 3500-6500 rpm.

With the exception of the "bolt-in" 500 camshafts, S&S cams are high lift and are designed to take advantage of the extra flow of ported stock heads or S&S Super Stock® heads. Due to the high lift of these cams, high lift valve springs and minor clearancing is required for proper installation.



S&S® CAMS	S&S® CAMS SPECIFICATIONS FOR 1986—'19 SPORTSTER® AND 1994—'02 BUELL® MODELS								
	Valve T	Valve Duration (°)			Lift @ TDC ²				
Cam	Intake	Exhaust	Intake	Exhaust	Valve Lift	Intake	Exhaust	Spring Spacing Required	Tappet ³ Type Required
	Open BTDC/Close ABDC	Open BBDC/Close ATDC	IIItake						
S&S 482	22°/38°	43°/11°	240°	234°	.482"	.181"	.134"	No	Hydraulic
S&S 500	34°/50°	56°/28°	264°	264°	.500"	.241"	.212"	No	Solid or Hydraulic
S&S 555	33°/53°	53°/33°	266°	266°	.555"	.240"	.240"	Yes	Solid or Hydraulic
S&S 600	20°/55°	60°/20°	255°	260°	.600"	.194"	.184"	Yes	Solid or Hydraulic

¹Timing designations is a function of zero lash @ 0.053" off base circle.

CAMS FOR 1986-'20 SPORTSTER® AND 1994-'02 BUELL® MODELS

Cam Name Application		Part #
S&S 482	2000–′20	330-0189
C0 C T00	1991–′20*	33-5082
S&S 500	1986–'90	33-5081
S&S 555	1991–′20*	33-5084
505 600	1991–′20*	33-5126
S&S 600	1986–'90	33-5125

^{*}See Notes regarding pinion gears

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1991–'99 style pinion gear must be used with S&S® cams (except for 482) in 2000–'19 Sportster® models and 2000–'02 Buell® models with stock flywheels. See page 268.

2000—'03 Sportster models and 2000—'02 Buell models using S&S flywheels or pinion shafts require the use of '91—'99 style cams and S&S '86—'87 pinion gear and oil pump drive gear.

²TDC lifts are measured at the valve and are for reference only. Overlap valve lifts must be checked on assembled motor.

³Requires cam lobe clearancing when used in stock crankcases.

PINION GEARS

FITMENT

- 1986—'99 Sportster® models
- 1994–'02 Buell® models







PINION GEARS FOR 1986-'87 SPORTSTER® MODELS

REQUIRED FOR ALL S&S FLYWHEEL ASSEMBLIES FOR 1986-'99 SPORTSTER AND 1991-'99 BUELL MODELS

Color Code	Size	HD® Part #	S&S® Part #
Blue	Biggest	24056-86	33-4152 🕬
Red	Average	24057-86	33-4153
White	Average	24058-86	33-4154
Green	Average	24059-86	33-4155
Yellow	Smallest	24060-86	33-4156

PINION GEARS FOR 1991—'99 SPORTSTER® WITH STOCK FLYWHEEL ASSEMBLY

Color Code	Size	HD® Part #	S&S® Part #
Blue	Biggest	24056-91	33-4162
Red	Average	24057-91	33-4163
White	Average	24058-91	33-4164
Green	Average	24059-91	33-4165
Yellow	Smallest	24060-91	33-4166

Note: Can be used to install S&S cams in 2000–2013 Sportster® engines

PINION SHAFT COMPONENTS FOR 1986-'03 SPORTSTER® MODELS

Item Description	HD® Part #1	S&S® Part #
1986—'87 Style Pinion Gear Nut	7913	33-4254
1986—'87 Style Pinion Shaft Oil Pump Drive Gear	26318-75	33-4228

¹Note: No longer available from Harley-Davidson®



If the stock gear is unmarked and the size is unknown or you are scratch building an engine and have no gear, we recommend that you order a gear in the middle of the size range. These sizes were used more often and should provide adequate gear clearance under most circumstances. When in doubt, use a gear from the middle to the small side of the range because a combination of looser fitting smaller gears is less likely to cause binding and premature wear. Consult the chart for the size and appropriate part number required. If you wish to achieve optimum cam gear to pinion gear fit, consult your factory service manual for instructions on fitting these gears before making a selection. Some sizes, particularly those on and near the ends of each range, are available on a limited basis because they are the extremes.

All reference to HD® part numbers is for identification purposes only. We in no way are implying that any of S&S Cycle's products are original equipment parts or that they are equivalent to the corresponding HD® part number shown.

NEW FOR 2020 PR

PRECISION TAPPETS

High performance tappets are a cornerstone of the S&S line up and we are always looking to improve our products. After months of research and countless hours of testing we are excited to reveal the latest in performance tappets. The S&S Cycle Precision Tappets replace both our standard as well as premium tappets. Each Precision Tappet is hand assembled to exacting tolerances and designed for quiet operation and rapid pump up and all are made in the USA.

FITMENT

- 2000–'20 Sportster® models
- 2000—'02 Buell® models



EATURES

- Reduced valve train noise from start up to shut down
- Close tolerances for low leak down rates
- Fast pump up and superior high rpm performance

PRECISION TAPPETS

Set of 4 tappets	330-0718
------------------	----------

STANDARD TAPPETS

FITMENT

• 1986—'90 Harley-Davidson® Sportster® models

FEATURES AND BENEFITS

- Redesigned plunger assembly better withstands forces associated with heavyduty valve springs and cams typically used in high-performance applications
- Revised metering device precisely controls oil delivery to top end, ensuring rapid lifter pump-up and reducing possibility of oil starvation to bottom end
- Each lifter body and plunger assembly is selective-fit and tested to ensure correct operation
- 1986—'90 (4-speed)
 - Larger inner bearing race reduces stresses to increase axle, bearing and roller life. The S&S inner bearing race is .123" larger in diameter than the "raceless" roller axles currently used by some manufacturers.
 - Improved inner race—roller design allows use of more and larger bearings to increase load—carrying surface area, further reducing stress and wear in the critical roller area.

OPTIONS

 Tappets for 1986—'90 four speed Sportster® models are available with the HL₂T Limited Travel Kit for improved cold starts and high rpm valve timing accuracy.

KIT CONTENTS

Four hydraulic tappets



HIGH PERFORMANCE HYDRAULIC TAPPETS

Fitment	Description	Part #
1991–'99 Sportster®	S&S Standard Tappet (HL ₂ T kit not installed)	330-0288
1986–'90 Sportster®	S&S Standard Tappet (HL ₂ T kit not installed)	33-5352 @ ¹⁵
	S&S Standard Tappet (With HL ₂ T kit installed)	33-5353 USA _{1,2,3}



S&S tappets with HL₂T Kit require the use of adjustable pushrods. See page 271 for S&S adjustable pushrod options

HIGH QUALITY TAPPET ROLLER & AXLE REPLACEMENT



High quality tappet roller and axle replacment kit for 1984–99 HD® big twin and 1986–90 Sportster® models. Kit includes rollers to rebuild 4 tappets.

HIGH OUALITY TAPPET ROLLER AND AXLE REPLACEMENT KIT

	330-0378
Fitment	Part #

HYDRAULIC LIFTER LIMITED TRAVEL SPACER (HL₂T)

FITMENT

- 1986—'03 Harley-Davidson® Sportster® models
- 1994–'02 Buell® models

FEATURES AND BENEFITS

- Positive valve train activation!
- More horsepower at higher RPMs
- Easier starting

KIT CONTENTS · Set of four spacers

HYDRAULIC LIFTER LIMITED TRAVEL SPACER (HL2T)

Fitment	Part #
1986—'03 Sportster® with stock or S&S® tappets (fits tappets with .612" I.D.)	33-5338

TAPPET GUIDES

FITMENT

- 1986—'90 Harley-Davidson® Sportster®
- S&S Super Stock® crankcase
- S&S Special Application crankcase

FEATURES AND BENEFITS

- Unlike cast aluminum, billet has no internal voids or impurities
- No residual strain from thermal contraction or expansion means no cracking or changes in shape
- Simple to install upgrade that looks great
- Tappet guides for special application cases have correct pushrod angles for ½" camchest offset

KIT CONTENTS

- Guides
- 0-rings
- Installation hardware



33-5375

TAPPET GUIDE SETS FOR SPORTSTER®, SUPER STOCK®, AND SPECIAL APPLICATION CRANKCASES

Application	Set
1986–'90 Stock/S&S® Super Stock	33-5375
1986—'90 S&S Special Application	33-5365
1991–'99 S&S Super Stock	33-5389



2000 and later Sportster models use the same tappet as 1999—up big twin engines. However, these tappets will not fit the S&S tappet guides for 1991—'99 models.

50-8005 50-8004 50-8006 50-0101

50-7025

REPLACEMENT PARTS FOR TAPPET GUIDES

Description	Part #	
Tappet Guide O-ring Kit Fits 1986—'90 Sportster models with stock or S&S crankcases and 1991—'99 Sportster models with.	50-8153	
Upper O-ring, 1" I.D. x ¹ 3/ ₆ " O.D .x ³ / ₅₂ " CS Viton® 11167	each	50-8004
Lower O-ring, 1" I.D. x 11/8" O.D. x 1/16" CS Viton 11168A	each	50-8005
Oil Decree 0 size 2/11 D1/11 O D1/11 CC 70 D	each	50-8006
Oil Passage O-ring, %" I.D. x ½" O.D. x 1/16" CS 70 Buna 11110	10 pack	50-8077
Screw, SHC, 5/16-18 x 1", Zinc 3201WA, 2708	each	50-0101
Washer, Flat, .325" x .548" x .062", Zinc, Low Carbon Steel <i>6771</i>	each	50-7025

QUICKEE ADJUSTABLE PUSHRODS

FITMENT

- 1991–'20 Harley-Davidson® Sportster® models
- 1994—'02 Buell® models

FEATURES AND BENEFITS

- Easy to install
- Adjustable to ensure consistent valve train operation under all conditions

KIT CONTENTS

- Pushrods
- Pushrod covers and keepers
- 0-rings



REPLACEMENT PARTS: SEE PAGE 272



930-0023

STANDARD ADJUSTABLE PUSHRODS

FITMENT

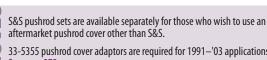
- 1986—'20 Harley-Davidson® Sportster® models
- 1994–'02 Buell® models

FEATURES AND BENEFITS

- Made out of 7/16" O.D. chromoly steel tubing for strength and durability
- Adjustable to ensure accurate valve train operation under all conditions
- Compatible with solid and hydraulic lifters
- · Kit includes all pushrods, covers, keeper and o-rings

KIT CONTENTS

- Pushrods
- Pushrod covers and keepers
- 0-rings



33-5355 pushrod cover adaptors are required for 1991–'03 applications. See page 272

REPLACEMENT PARTS: SEE PAGE 272

930-0024

STANDARD ADJUSTABLE PUSHRODS FOR 2004-'20 HARLEY-DAVIDSON® SPORTSTER® MODELS

Description	Part#
Complete Kit	930-0024
Pushrod Set only	93-5022

PUSHROD SETS

FOR 1991-'03 SPORTSTER® AND 1994-'02 BUELL® MODELS

Displacement	Cylinder Length	Part #
883cc, 1200cc, 79"	4.650" (Stock)	93-5022
89"	5.087" (+0.437)	93-5089

PUSHROD SETS FOR 1986-'90 SPORTSTER® MODELS

Displacement	Cylinder Length	Part #
883cc, 1200cc, 79"	4.650" (Stock)	93-5033
89"	5.087" (+0.437)	93-5022



PUSHROD COVERS AND RELATED PARTS

FITMENT

- 1986—'20 Harley-Davidson® Sportster®
 1994—'02 Buell®

PUSHROD REPLACEMENT PARTS

Item Description		Part #	
S&S Pushrod Cover Kit*(includes Top and bottom		Stock Height	93-4039*
covers, Cover cap, Cover spring, Sprir o-rings)	ng washers, and	1" or more taller than stock	93-4038*
Cover Cap Washer 6762B			50-7131
Bottom Cover Washer			50-7150
Top 0-ring 11132A			50-8039
Middle O-ring			50-8038
Bottom 0-ring			50-8037
Top Cover USA, 1,2,3	Top Cover CONT.2.3		93-4016
Bottom Cover (150),2,3		93-4015	
Cover Cap USA USA 1,2,3			93-4017
Cover Spring USA _{1,2,3}			93-4018
Pushrod O-ring Kit			93-4022
Ball End Fits S&S adjustable with %6"-32 threads. (Manufactured after 2-1-1996)		93-5002	
9/32	Fits S&S adjus %2"-32 thread	stable pushrods with early stock ds	33-5333
Adjusting Unit Locknut	Fits S&S adjus (Manufactured a	stable pushrods with 5/16"-32 threads. ofter 2-1-1996)	93-5003-S

^{*1991-&#}x27;03 Sportster and 1994-'02 Buell models require S&S pushrod cover adaptor kit part #33-5355 to use two-piece pushrod covers.



S&S pushrod cover adapters for five-speed Sportster models are designed to convert stock 1991-'03 crankcases to accept 1986-'90 style pushrod cover assemblies in order to allow access to adjustable pushrods. 2004-up Sportster models do not require these adapters.

PUSHROD COVER ADAPTER

Set of four	33-5355



PUSHROD COVER KEEPER SETS[±]

Application		Length	Part #
2004–'20 Sportster® Pushrod covers 883cc & 1200cc		(2.600")	93-4101
	883cc & 1200cc	(2.600")	93-4101
1991–'03 Sportster and 1994–'02 Buell® with Stock Cases and S&S Adaptors	79"	(2.600")	93-4101
	89"	(3.000")	93-4103
	883cc & 1200cc	(2.800")	93-4115 336
1986—'90 Sportster with Stock or S&S Cases	79"	(2.800")	93-4115 17950-86
	89"	(3.100")	93-4104
	100"	(3.000")	93-4103

± ★ WARNING: Cancer and Reproductive Harm

PUSHROD COVER KEEPER SET

Length/	Finish	Part #
2.390"/G	loss Black	930-0127
2.400"/C	hrome 🕬	93-4070 [±] 17950-48
2.500!!	Chrome	93-4100 [±]
2.500"	Gloss Black	930-0142
2.600"	Chrome	93-4101±
2.000	Gloss Black	930-0128
2.800"/C	hrome 🕬	93-4115 ± 17950-86
"	Chrome	93-4102 [±]
2.900"	Gloss Black	930-0126
3.000"/C	hrome	93-4103±
2.400!!	Chrome	93-4104±
3.100"	Gloss Black	930-0125
3.200"/C	hrome	93-4105±
3.330"/C	hrome 🕬	93-4106 [±] 17949-40, 17950-66
3.500"/C	hrome	93-4107±
3.625"/C	hrome	93-4108±
4.250"*		93-4109

^{*}Custom, extra long stainless steel 4.250", customer to cut to required length



All S&S pushrod keepers are chromed steel except part #93-4109. Keeper #93-4109 is intended for unusually tall engines. It is manufactured of unchromed stainless steel to prevent rust or peeling after it is trimmed to the required length. Keepers are sold in sets of four.

93-4101

^{**}WARNING: Cancer and Reproductive Harm

SIDEWINDER® .650" LIFT VALVE SPRINGS

FITMENT

• 1986—'20 Harley-Davidson® Sportster® models with stock heads

FEATURES AND BENEFITS

- Works well with cams up to .650" lift
- Manufactured from ultra clean high silicon Kobe alloy wire then micro shot peened and nitrided
- CNC machined 9° locks
- High performance conical single wire spring
- Chromoly forged retainers

KIT CONTENTS

- Valve keepers, top & bottom collars, springs, shims
- Valve guide seals (not included in kit for 1999—'04 xl)

.650" LIFT SPRING KIT

Description	Part #
1986–2003 (5/16" valve stems)	900-0050
2004–2020 (7mm stems)	106-5909



S&S recommends roller rocker arms be used with lifts over .585"

S&S® .650" LIFT SPRINGS SPECIFICATIONS				
Lift Installed Height Seat Force Force @ Max Lift Max RPM				
.650"	1.860"	178 lb.	376 lb.	6500



STREET PERFORMANCE .585" VALVE SPRINGS

FITMENT

• 1986—'20 Harley-Davidson® Sportster® models / 1995—'02 Buell models

FEATURES AND BENEFITS

- Dual springs reduce the risk of valve float
- Suitable for high performance applications
- Accommodates camshaft lift to 0.585"

KIT CONTENTS

• Valve Guide Seals, Springs, Top & Bottom Collars, Keepers, Shims

STREET PERFORMANCE .585" VALVE SPRING KIT

Description	Part#	
1986–'03 Sportster® & 1995–'02 Buell® (5/16" valve stems)	900-0593	
2004–'20 Sporsters® (7mm stems)	900-0594	
S&S Super Stock Heads	900-0595	

S&S® .585" LIFT SPRINGS SPECIFICATIONS			
Lift	Installed Height	Seat Force	Force @ Max Lift
.585"	1.850"	135 lb.	325 lb.



900-05

FORGED ROCKER ARMS

FITMENT

- 1986—'20 Harley-Davidson® Sportster® models
- 1994–'02 Buell[®] models

FEATURES AND BENEFITS ROLLER ROCKER ARMS

- Extremely durable rollers reduce valve stem side thrusting with high lift cams
- Superior wear and fatigue resistance even in the most demanding applications
- 34" long bushings provide 50% more bushing support area than 1/2" long bushings
- Ideal for cams of any lift

STANDARD ROCKER ARMS

- ¾" long bushings provide 50% more bushing support area than ½" long bushings
- An economical alternative for cams up to .585" lift

KIT CONTENTS

• 2 front and 2 rear rocker arms



FORGED ROLLER ROCKER ARM KIT

Description	Part #	
2 front and 2 rear rocker arms 🕬 5	900-4065A	

Adjustable pushrods must be used with S&S roller rocker arms to obtain proper valve clearance. New rocker arm shafts are recommended for maximum performance and rocker life.



900-4119A



90-4036



STANDARD FORGED ROCKER ARM KIT

Description	Part #
2 front and 2 rear rocker arms	900-4119A

New rocker arm shafts are recommended for maximum performance and rocker life.

ROCKER ARM SHAFTS

Description	Part #
Set of 4 17611-838	90-4036
Individual 17611-838 (US),2,3	90-4006

New rocker arm shafts are recommended for maximum performance and rocker life.

REPLACEMENT PARTS FOR FORGED ROLLER ROCKER ARMS

Rocker Arm Type	Description	Part #
D.II	Front exhaust or rear intake rocker arm (15),2,3	900-4065FA
Roller	Rear exhaust or front intake rocker arm (53,2,3	900-4065RA
	Front exhaust or rear intake rocker arm 17375-83A	900-4119FA
Standard	Rear exhaust or front intake rocker arm 17360-83A	900-4119RA
Roller	Rebuild kits (rebuilds 4 rocker arms)	90-4104
Roller & Standard	Rocker arm bushing (¾" long) USA _{1,2,3}	90-4014



S&S roller rocker arms are recommended for use with cams having more than 0.585" of lift.

Adjustable pushrods must be used with S&S roller rocker arms to obtain proper valve clearance.

New rocker arm shafts are recommended for maximum performance and rocker life.

CNC PORTED CYLINDER HEAD SERVICES

CNC PORTING SERVICE FEATURES AND BENEFITS

- CNC machined ports are consistent—repeatable performance increase
- High flow and high port velocity—great power without losing low RPM torque
- Assembled with performance valves and your choice of .585" or .650" lift springs ready to bolt-on
- Stock heads with S&S CNC porting are also available for outright sale in select models

XL CNC

- Available for 2004—'20 xl 883 and 1200cc engines
- Combustion chamber volume of 60cc—For stock compression in 1200cc engines
- 883 engines must to upgraded to 1200cc or greater
- Perfect for the S&S 1200cc and 1250cc kits.



CNC PORTING SERVICE FOR SPORTSTER® MODELS

Description	Part#	MSRP
CNC Porting Service—S&S Ports Your Heads	909-0011	Call for Pricing
CNC Ported Heads—Complete Set Sold Outright	909-0011	Call for Pricing

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on any EPA pollution controlled motor vehicle.

S&S° CNC PORTING SERVICE — SPECIFICATION COMPARISON — HARLEY-DAVIDSON° SPORTSTER° MODELS								
Uonde	Valve Size		MV-h1:64	Max TDC Lift		Port Flow		Chamber
Heads	Intake	Exhaust	Max Valve Lift	Intake	Exhaust	Intake	Exhaust	Volume
Stock	1.805	1.575	.585	_	_	218.2 cfm	186.7 cfm	60сс
CNC Ported by S&S	1.830	1.575	.650	.213	.215	249.3 cfm	206.0 cfm	60сс
*Flow testing performed on a SuperFlow® 1020 flow bench at 28" of water test pressure at 600" lift. Heads tested are 2007-'13 style								

Honds	COMPRESSI	ON RATIO	
Heads 1200cc		With .03 Head Gaskets	
Stock 60cc	9.7	10:1	
CNC Ported by S&S 60cc	50cc 9.7 10:1		
**As a general rule of thumb, for every 1cc decrease in chamber volume equals a .1 increase in compression ratio.			

NOTES

For xl applications. S&S recommends for use with cam TDC lifts no greater than: .213" intake, .215" exhaust to achieve .050" valve to valve clearance.

CNC porting is not available for previously ported heads, heads that have been structurally damaged, or heads that are determined to be unserviceable during initial inspection. These heads will be returned to the customer without modification. In these cases, the customer will be notified and options will be reviewed. As an alternative, S&S heads or CNC ported stock heads are available for purchase.

Due to variations in stock cylinder head castings, all inside surfaces of the ports may not "clean up" during machining. As a result, the inside of one or more ports may not appear to be completely machined. This does not effect performance and is not considered a defect.

CNC porting is not currently available for Harley-Davidson® CVO engines or Screamin' Eagle® cylinder heads.

SUPER STOCK® CYLINDER HEADS FOR 4" BORE S&S ENGINES

FITMENT

- SB-Series for Harley-Davidson® Sportster® 1986—'03
- SB-Series for Buell® 1994—'02

FEATURES AND BENEFITS

- Machined for S&S manual or electric compression releases
- 2.000" intake valves and 1.605" exhaust valves
- Special "cast-to-shape" intake ports with a special directional fin for improved air flow
- Precision CNC machined from heat treated aircraft quality aluminum castings
- Machined with S&S 4" cylinder stud pattern and '86–90 S&S SA pushrod hole locations

KIT CONTENTS

- 2 fully assembled cylinder heads in Natural or Wrinkle Black with S&S .650" lift springs
- Threaded plugs to seal compression release holes if no compression releases are used



SUPER STOCK® HEAD KITS FOR 4" BORE S&S ENGINES

Application	Natural
1986–'03 Sportster® models	106-2194
1994–'02 Buell® models	106-2297



THESE KITS REQUIRES SPECIAL S&S PISTONS AND GASKETS. Order the required piston oversize and gaskets from the charts below.



92-1420

4" PISTON KITS FOR 1986-'03 HARLEY-DAVIDSON® SPORTSTER® MODELS

Oversize	Part #
Standard	92-1420
+0.010"	92-1421
+0.020"	92-1422

Kits include a set of pistons, rings, wristpins and keepers.



4" BORE GASKET KIT FOR 1986-'03 HARLEY-DAVIDSON® SPORTSTER® MODELS

Description	Part #
Head, Base, and Exhaust Gaskets	90-1909

REPLACEMENT PARTS: SEE PAGE 294



Due to expanded stud pattern, these heads will not fit on stock Sportster® Evolution® engines.



3-1/2" AND 3-5/8" SUPER STOCK® CYLINDER HEADS

FITMENT

- 1986—'03 Harley-Davidson® Sportster®
- 1994—'02 Buell® (heads require S&S Super stock pistons)

FEATURES AND BENEFITS

- Machined with a stock bolt pattern
- Larger, more open combustion chamber presents less resistance to air flow around the valves
- 2.000" intake valves and 1.605" exhaust valves
- Special "cast-to-shape" intake ports with a special directional fin for improved air flow
- Precision CNC machined from heat treated aircraft quality aluminum castings

KIT CONTENTS

 Complete head assembly in Natural or Wrinkle Black with valves and S&S .650" lift springs



REPLACEMENT PARTS: SEE PAGE 294

ASSEMBLED S&S® SUPER STOCK® HEAD KITS

Application	Natural	Wrinkle Black
1991–'03 Sportster® models	90-1310	90-1810

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THESE KITS REQUIRES SPECIAL S&S PISTONS AND GASKETS. Order the required piston oversize and gaskets from the charts below.



35/8" FORGED PISTON KITS FOR S&S® SUPER STOCK® HEADS

Oversize	Low Compression	Intermediate Compression	
+0.010"	92-1081	_	_
+0.020"	-	92-1122	
+0.030"	92-1083	_	_
+0.040"	92-1084	_	_

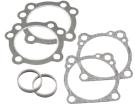
Piston kits include set of pistons, rings, wristpins, and clips. Recommended piston fit: Close: 0.0023"- 0.0025" Loose: 0.0035"- 0.0045"

FOR COMPRESSION RATIOS AND CYLINDER KITS SEE PAGE 263

3½" BORE FORGED PISTON KITS FOR S&S® SUPER STOCK® HEADS (10.5:1 COMPRESSION)

Oversize	Deck Height	Part #
Standard		92-2016
+0.010"	1.1875"	92-2017
+0.020"		92-2018

Piston kits include set of pistons, rings, wristpins, and clips. Recommended piston fit: Close: 0.0025" -0.003" Loose: 0.0030" -0.0040"



90-1907

GASKET KITS FOR S&S® SUPER STOCK® CYLINDER HEADS

Bore Size	Part #
3½"	90-1907
3%"	90-1908

CYLINDER HEAD AND MOTOR MOUNTS

HEAD MOUNTS FOR SPORTSTER® MODELS

Two head mounts are required for 1986—'03 Harley-Davidson® Sportster® models. The center mount is a two-piece design for maximum flexibility. The front mount is one piece and available in two versions according to cylinder length. Machined from 14" thick steel and provided in a semi-gloss black finish.

1986–'03 Sportster® Chassis



CENTER MOUNT

Fits All Engines	93-4055	
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FRONT MOUNT

Stock to 5.087" Long Cylinders	93-4056	
16214-86, 16222-86	95-4050	

HEAD BOLTS WITH WASHERS

HEAD BOLT INFORMATION CHART

Length w/Washer	Washer Thickness	Head Bolt w/Washer	Washers Only
1.690"	.250"	93-3028	50-7091
1.840"	.150"	93-3027	50-0418-S
1.920"	.250"	93-3036	50-7091
2.070"	.150"	93-3031	50-0418-S
2.220"	.250"	93-3038	50-7091
2.370"	.150"	93-3032	50-0418-S
3.134"	.250"	93-3029	50-7091
3.284"	.150"	93-3030	50-0418-S
3.501"	.250"	93-3037*	50-7091
3.651"	.150"	93-3033*	50-0418-S





93-3028

HEAD BOLT WASHERS

Thickness	Part #	
.150"	50-0418-S	
.250"	50-7091	

HEAD BOLTS FOR 1986-2003 HARLEY-DAVIDSON® SPORTSTER® MODELS

Engine Displacement	Stroke	Cylinder Length	Cylinder Head Type	Short Bolt w/Washer	Long Bolt w/Washer	Head Bolt Kit
883/1100/1200cc	313/16"	4.650"	S&S 1986-'90 HD®	93-3027	93-3030	93-3010
S&S 79"	3'716	4.030	1991-Up HD®	93-3027	93-3030	93-3010
S&S 89"	45/16"	5.087"	S&S 1986-'90 HD®	93-3038	93-3033	93-3013
303 09	4716	3.007	1991-up HD®	93-3032	93-3033	93-3013
S&S 91"	3%"	4.230"	S&S®	93-3028	93-3029	93-3011
S&S 100"	4"	4.420"	S&S®	93-3028	93-3029	93-3011

CALCULATING CUSTOM HEAD BOLT LENGTHS SEE INSTRUCTIONS ON PAGE 349

Dress up your engine with these magnetic chrome head bolt covers. Easy installation, no tools, no messy adhesives. A powerful magnet holds cover in place, yet allows easy removal. Chrome plated steel looks great on any engine, but is a must for polished engines. For S&S head bolts only.



Set of 4 **50-0333**

± ⚠ WARNING: Cancer and Reproductive Harm

BILLET ROCKER COVERS

FITMENT

- 1986—'03 Harley-Davidson® Sportster® models
- 1994–'02 Buell® models

FEATURES AND BENEFITS

- OEM-style "umbrella" fittings are included with billet rocker boxes for 1993—'99 big twin engines with cylinder head venting
- S&S billet rocker covers are available in three finishes: show-quality chrome, or unfinished. Unfinished is ideal for powder coating and other custom cosmetic treatments.
- Installation on stock and most comparable sized engines can be performed without removing the engine from the frame

KIT CONTENTS

- Covers
- Gaskets
- 0-rings
- Mounting hardware

BILLET ROCKER COVER KITS

Finish	Part #
Chrome	90-4050 [±]
Unfinished	90-4055

**WARNING: Cancer and Reproductive Harm

REPLACEMENT GASKET KIT

Description	Part #	
Includes gaskets for two rocker covers	90-4049	

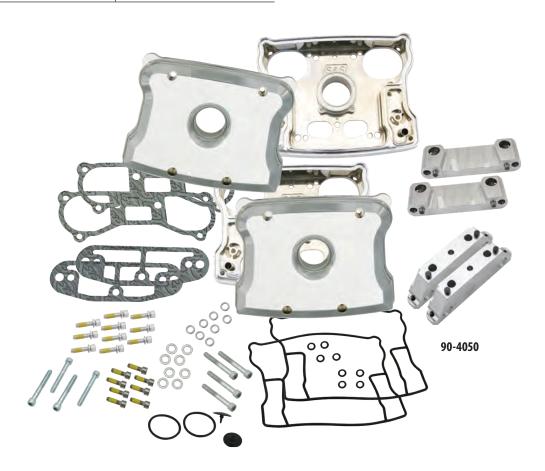
The performance-oriented design of the billet rocker boxes permits valve lifts up to .710" with stock or S&S Super Stock® heads, and up to .810" with S&S Special Application heads. S&S roller rocker arms are recommended for high lift cams.

S&S billet rocker covers accept valve springs up to 1.660" O.D. without modification. Cylinder heads must be set up correctly for high-lift cams, and it remains the builder's responsibility to confirm all clearances.

Kits include front and rear cover assemblies with base and top cover, rocker shaft supports, gaskets and o-rings, and instructions

REPLACEMENT PARTS: SEE PAGE 296

ANY JOB IS EASY WITH THE RIGHT TOOLS \$\&\text{S} ROCKER COVER WRENCH SET, PAGE 329



SUPER E & G COMPLETE CARBURETOR KITS

FITMENT

- 1986–'06 Harley-Davidson® Sportster® models1994–'02 Buell® models

FEATURES AND BENEFITS

- Four fuel delivery ports Better throttle response
- O-ring sealed idle mixture screw
- Increased air flow for more power
- Adjustable accelerator pump for quick throttle response and easy starting
- Utilization of the factory dual cable system ensures safe operation
- Direct replacement and high quality fit and finish — less down time and better performance
- Variable position enrichment starting system

KIT CONTENTS

- FULL KIT (For engines with stock length cylinders)
 - Super E carburetor
 - S&S intake manifold (stock length)
 - Classic Teardrop air cleaner kit
- Mounting hardware and gaskets
- Instructions
- PARTIAL KIT
 - Super E carburetor
 - Classic Teardrop air cleaner
 - Mounting hardware
 - Gaskets
 - Instructions

REPLACEMENT PARTS: SEE PAGE 306

SUPER E COMPLETE CARBURETOR KITS

Models	Super E
2004–'06 Sportster® models	11-0470
1991–'03 Sportster models	11-0409
1986–90 Sportster models	11-0408

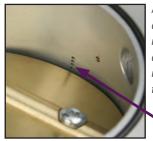
SUPER E PARTIAL KIT (NO MANIFOLD)

Models	Part#
1991–'03 Sportster® models	11-0443
1986–'90 Sportster models	11-0440

SUPER E & G CARBURETOR ONLY

SOI EN E & CAMPONETON ONE						
Fitment	Super E	MSRP	Super G			
All Years & Models	11-0420	\$392.95	11-0421			





As the throttle plate opens, it exposes more of these holes to engine vacuum and delivers more fuel as rpm increases. When you run out of holes in the intermediate system, the main jet comes in and handles fuel delivery for the higher rpm.

Due to inadequate frame clearance, the taller throttle bracket cannot be used on 1986–'03 Harley-Davidson® Sportster® chassis. Therefore, these Sportster models require the installation of earlier butterfly style throttle cables. Kits for 2004—'06 Sportster models are compatible with stock throttle cables.

S&S® does not recommend polishing or chrome plating Super E & G carburetors. Our repair department has seen many carbs with plugged passages due to polishing compounds, and some carbs have been destroyed because the polishing or chrome plating had altered critical machined surfaces.

Recommended for closed circuit use only—S&S Super E & G carburetors shown in this catalog section are not approved for use on motor vehicles operated on California public highways, or in other states where similar pollution laws may apply. The user shall determine the suitability of the product for his or her use and shall assume all risk and liability in connection

1998-up Buell® models require the use of 1996-'97 throttle assembly. S&S throttle cables must be used for all Buell applications.

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE. Not legal for sale or use on any EPA pollution controlled motor vehicle.

FEATURES AND BENEFITS

- Exclusive black coating heat and chemical resistant
- Offered in standard venturi or increased venturi diameter specially machined for 7% more flow

BLACK CARBURETORS FOR 1986-2006 XL MODELS

	Description	Part #
Increased venturi diameter	Super E Carb	110-0099
(7% more flow)	Super G Carb	110-0100
Standard venturi diameter	Super E Carb	110-0133
Standard venturi diameter	Super G Carb	110-0138

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NNTE

These black carb kits do not include air cleaners. Air cleaner options are on page 300

RIGID CARB SUPPORT BRACKETS

FITMENT

• 1986—'03 Harley-Davidson® Sportster® models, 1994-'02 Buell® models

SUPPORT BRACKET, AIR CLEANER TO HEAD

Application Stock Car Part #	Stock Carb and S&S Air Cleaner
	Part #
1986–'03 Sportster® & 1994–'02 Buell® models	17-0311



BREATHER CONVERSION KIT

EITMENIT

• 1991—'03 Harley-Davidson® Sportster®

FEATURES AND BENEFITS

• Instead of o-rings, banjo fittings are sealed with durable silicon coated washers

BREATHER CONVERSION KIT

Fitment	Part #	
Super E 1%" Carb	17-0487	



Breather conversion kit for xl engines updates earlier S&S® air cleaner kits for 1991–'03 Sportster® models to the latest breather hardware.

TWO CABLE THROTTLE ASSEMBLIES

Harley-Davidson® Sportster® models 1987—'03 originally fitted with a constant velocity (CV) carb require conversion to butterfly style throttle cables to work with the S&S butterfly type carburetor. The throttle cables shown in the chart below are designed for this application. S&S Super E carb kits for 2004—'06 Sportster models are designed to accept the stock throttle cables.

FITMENT

- 1986—'03 Harley-Davidson® Sportster® models
- 1996—'02 Buell® models



S&S® THROTTLE CABLE APPLICATION CHART

Application	Fastening Method	Length Total Housing	Length Vinyl Housing	Open Side	MSRP	Close Side
1996–'03	Snap-in	36"	32"	19-0436	\$64.95	19-0437
1986–'95	Threaded	36"	32"	19-0432	\$64.95	19-0433
1996-up Custom	Snap-in	42"	38"	19-0440	\$64.95	19-0441
1986–'95	Threaded	42"	38"	19-0446	\$64.95	19-0447

^{*1998} and later required Harley-Davidson® throttle assembly #71831-96

REPLACEMENT PARTS

REPLACEMENT PARTS	
Description	Part #
S&S Universal Throttle Cable	106-3520
Throttle Grip Clamp Set 1985—'95	106-3519
Top Throttle Grip Clamp only	19-0222 🖜
Bottom Throttle Grip Clamp only	19-0220 📆
Throttle Grip Clamp Screw	
(Fits S&S throttle assemblies: Part #19-0448, #19-0449, #19-0482, #19-0450, and #19-0229)	50-0043
Throttle Grip Set	106-3521
Right Hand Grip only	19-0225
Left Hand Grip only	19-0226 🗫
Cable Adjuster Fits S&S throttle assembly part #19-0229.	19-0223
Cable Adjuster Jam Nut Fits S&S throttle assembly part #19-0229	19-0227
Handlebar Spacing Sleeve 4" x 1" 0.D. — converts 7/8" handlebars to 1" 0.D.	19-0235





The chart on this page is used only when using throttle cable bracket part #11-2339. This bracket is standard on all S&S® Super E & G carburetor kits for Harley-Davidson® Sportster® models with the exception of the kit for 2004—'06 models.

1987—'03 Sportster models originally fitted with a constant velocity (CV) carb require conversion to butterfly style throttle cables to work with the S&S butterfly type carburetor. S&S Super E carb kits for 2004—'06 Sportster models are designed to accept the stock throttle cables.

For those who need to rejet their carburetor because of engine modifications, exhaust modifications, or changes in altitude, we have extra jet kits available which are designed to cover most jetting situations.

DEALER JET KITS[±]

Description	Part #
S&S Carb Parts Kit (Contains needed parts to maintain S&S Super E and G carburetors)	11-3103
S&S Jet Kit (Includes 3 each of all intermediate jets and 5 each of all main jets, plus a main jet tool)	11-3102





Description	Part #
Low Range Jet Pack — For jetting most stock and mod	erate performance engines.
Includes one each intermediate jets (.025", .0265", .028", .0295") one each main jets (.062", .064", .066", .068", .070", .072", .074")	11-7270

High Range Jet Pack – For jetting some stock and all performance engines

Includes one each intermediate jets (.0295", .031", .032", .033") and one each main jets (.072", .074", .076", .078", .080", .082", .084")

11-7271

Master Jet Pack — For jetting all Super B, E, and G equipped engines

Includes one each intermediate jets (.025", .0265", .028", .0295", .031", .032", .033") and one each main jets (.062", .064", .066", .068", .070", .072", .074", .076", .078", .080", .082", .084").

11-7272



**WARNING: Cancer and Reproductive Harm

INTERMEDIATE JETS - SERIES #94 INDIVIDUAL SELECTION*

Size	QTY	Part #	MSRP	Size	QTY	Part #
.025	each	11-0250	\$11.95	022	each	11-0320
.025	3 pack	11-7107	\$28.95	.032	3 pack	11-7112
0265	each	11-0265	\$11.95	022	each	11-0330
.0265	3 pack	11-7108	\$28.95	.033	3 pack	11-7113
020	each	11-0280	\$11.95	026	each	11-0360
.028	3 pack	11-7109	\$28.95	.036	3 pack	11-7114
.0295	each	11-0295	\$11.95	040	each	11-0400
.0295	3 pack	11-7110	\$28.95	.040	3 pack	11-7115
021	each	11-0310	\$11.95	Dlauk	aash	11 0000
.031	3 pack	11-7111	\$28.95	Blank	each	11-0000

**WARNING: Cancer and Reproductive Harm —









106-3517±

Early Series #94 gas jets were stamped with single digit numbers. Conversions for these numbers are

4033"
5036"
6040"



No returns or exchanges on jets.

MAIN IFTS - SERIES #72 INDIVIDIAL SIZE SELECTION*

Size	QTY	Part #	Size	QTY	Part #
040	each	11-4040	.080	each	11-4080
070	5 pack	11-7220	.000	5 pack	11-7240
042	each	11-4042	.082	each	11-4082
.072	5 pack	11-7221	.002	5 pack	11-7241
.044	each	11-4044	.084	each	11-4084
.011	5 pack	11-7222	.004	5 pack	11-7242
.046	each	11-4046	.086	each	11-4086
0+0	5 pack	11-7223	.000	5 pack	11-7243
.048	each	11-4048	.088	each	11-4088
0+0	5 pack	11-7224	.000	5 pack	11-7244
.050	each	11-4050	.090	each	11-4090
.0.00	5 pack	11-7225	.090	5 pack	11-7245
.052	each	11-4052	.092	each	11-4092
.032	5 pack	11-7226	.092	5 pack	11-7246
.054	each	11-4054	.094	each	11-4094
.034	5 pack	11-7227	.094	5 pack	11-7247
.056	each	11-4056	.096	each	11-4096
.030	5 pack	11-7228	.090	5 pack	11-7248
050	each	11-4058	000	each	11-4098
.058	5 pack	11-7229	.098	5 pack	11-7249
.060	each	11-4060	100	each	11-4100
.000	5 pack	11-7230	.100	5 pack	11-7250
.062	each	11-4062	.102	each	11-4102
.002	5 pack	11-7231	.102	5 pack	11-7251
064	each	11-4064	104	each	11-4104
.064	5 pack	11-7232	.104	5 pack	11-7252
000	each	11-4066	100	aash	11 1106
.066	5 pack	11-7233	.106	each	11-4106
070	each	11-4070	110	each	11-4110
.070	5 pack	11-7235	.110	5 pack	11-7255
072	each	11-4072	115	each	11-4115
.072	5 pack	11-7236	.115	5 pack	11-7256
074	each	11-4074	130	each	11-4120
.074	5 pack	11-7237	.120	5 pack	11-7257
076	each	11-4076			•
.076	5 pack	11-7238	± M	± MARNING: Cancer and Rep	
070	each	11-4078	Harm		
078	5 pack	11-7239	\neg		

MAIN JET AIR BLEED KIT[±] (One Jet Each Size)

Sizes	Part #
.042" — .060"	106-3517
.084" — .120"	106-3518

^{± ★} WARNING: Cancer and Reproductive Harm

S&S® CARBURETOR REBUILD KITS

To insure that you continue to get the utmost in performance from your S&S carburetor, we have put together a series of rebuild kits that are designed to provide the proper parts to return a worn carburetor to top shape. We have assembled different types of kits to cover the different degrees of rebuild necessary.

MASTER REBUILD KITS

Master rebuild kits contain a body rebuild kit, accelerator pump rebuild kit (Super E and G only), all new fasteners, springs, idle mixture screw, seat, and needle assembly. Everything needed to completely rebuild one carburetor.

MASTER REBUILD KIT[±]

Description	Part #
Super E	11-2923
Super G	11-2924

**WARNING: Cancer and Reproductive Harm



BODY REBUILD KITS

Body rebuild kits for Super E and G carbs also contain throttle shaft nuts, nylon washers, accelerator pump o-ring, and accelerator pump boot. Body rebuild kits for Super E and G carbs do not contain throttle shaft bushings since these carbs have stainless steel throttle shaft bushings already installed.

		5 /
BODY REBUILD) KIT [±]	31 - 31
Description	Part #	
Super E	11-2906	E De Co
Super G	11-2907	11-2907
	•	11-2707

± ⚠ WARNING: Cancer and Reproductive Harm

BASIC REBUILD KIT

A gasket and seal kit for low mileage Super E & G carbs. Perfect to reassemble carbs taken apart for inspection and cleaning.

BASIC REBUILD KIT±

Description	Part #
Super E & G	110-0067

*WARNING: Cancer and Reproductive Harm

ACCELERATOR PUMP REBUILD KITS

Accelerator pump rebuild kits contain diaphragm, diaphragm spring, check balls, check ball spring, pump pushrod, and required hardware and o-rings.

ACCELERATOR PUMP REBUILD KIT

ACCELERATOR I OMI REDUIED RIT				
Description	Part #			
Super E & G	11-2918			



MANIFOLD CONVERSION KITS

FITMENT

- 1986—'03 Harley-Davidson® Sportster® models
- Can be used with S&S Super B and Super E carburetors, as well as stock carburetors with a two-bolt mounting pattern

FEATURES AND BENEFITS

- Increased airflow
- Eliminates the possibility of severe engine damage due to extreme lean conditions created by cracks in stock rubber manifolds

KIT CONTENTS

- Manifold
- Front and rear mounting flanges
- Manifold o-rings
- Aluminum spacer shims



MANIFOLD CONVERSION KITS FOR SPORTSTER® MODELS

Year	Cylinder Length	Size No.	Part #	MSRP
1986-'03	4.650"	341	16-1650*	\$214.95

^{*}Fits S&S ES, LS, Super B, Super E, Tillotson®, Bendix®, Keihin®



Description		Part #	MSRP	
Manifold		16-1620	\$107.95	
_		each	16-0232	\$42.95
Flanges	Front 27009-86A	5 pack	16-0600	\$203.95
	Rear 27010-86A	each	16-0233	\$42.95
		5 pack	16-0601	\$203.95
	Set (Front & Rear)		106-3516	\$64.95
0-rings		each	16-0235	\$7.95
		5 pack	16-0243	\$49.95
0.350" Sp	acers	,	50-7044	\$3.95

These manifolds may change the way a stock carburetor and air cleaner assembly fit. This means that these components may require shimming and/or a slight change in mount bracketing.

S&S style o-rings must be used with these manifolds. S&S o-rings are slightly thinner to accommodate the larger S&S port diameter. Use of stock o-rings may damage the manifold.

INTAKE MANIFOLDS

Cylinder Length

*Replacement for manifold supplied in S&S part #11-0470 Super E carb kit. 17%" bore.

Stock (4.650")

• 1986—'06 Harley-Davidson® Sportster® models • S&S carburetors and other carbs with the same mounting bolt pattern

S&S Super E

16-1519*

MSRP

\$108.95

· Increases airflow

Displacement

1200cc

FEATURES AND BENEFITS

16-1620 16-1519

REPLACEMENT PARTS FOR MANIFOLDS

Description	Part #	MSRP
Manifold Fitting VOES Rubber Cap, 3/16" I.D. x 5/16" O.D. x 1/2"	50-8372	\$3.95
Manifold Vacuum Fitting	16-0136-S	\$4.95





MANIFOLDS FOR 1986-'03 HARLEY-DAVIDSON® SPORTSTER® MODELS

MANIFOLDS FOR 2004-'06 HARLEY-DAVIDSON® SPORTSTER® MODELS

335

Size No.

			Carburetor Type					
S&S Engine Kit Displacement	Cylinder Length	Size No.	S&S ES, LS, Super A, B, E, Tillotson®, Bendix®, Keihin®		Super G		Super D	
883cc,1100cc, 1200cc, 79"	Stock (4.650")	341	16-1620	\$107.95	16-2520	\$128.95	_	-
100"	4.420"	357	_	_	16-2559	\$128.95	_	-
103"	5.750"	426	_	_	16-2532	\$128.95	_	-
Special Order*	Specify	-	_	_	_	_	169-0005	Call for Pricing

Manifolds available in 17/8". 21/16". or 21/4" bore.

Indian[®] Models

MANIFOLDS FOR 1994-'02 BUELL® MODELS

MANIFOLDS FOR 1994-'02 HARLEY-DAVIDSON® BUELL® MODELS

Engine	Cylinder	Syize	Syize Super E		Super G	
Displacement	Length	Number	Part #	MSRP	Part #	MSRP
1200сс, 79"	Stock - 4.650"	341	16-1520	\$108.95	_	_
S&S SB100	4.420"	357	_	_	16-2569	\$108.95



16-1520

STION

S&S manifolds for Buell models are not interchangeable with manifolds for Harley-Davidson® Sportster® models as they position the carburetor about 1/4" higher. This change in position will cause misalignment of mounting hardware.

S&S style o-rings must be used with these manifolds. S&S o-rings are slightly thinner to accommodate the larger S&S port diameter. Use of stock o-rings may damage the manifold.

HIGH OUTPUT COILS





HIGH OUTPUT COILS

S&S High Output 3.0Ω Single Fire Coil	Part #	MSRP
The perfect complement for S&S IST ignition systems. This single fire coil is actually two separate coils in a single package. Coil impedance is 3Ω per coil.	55-1571	\$165.95
S&S High Output 0.5Ω Single Fire Coil USA	55-1576	\$142.95
High output 0.5 Ω single fire coil for S&S IST ignition. 55–1571	33 1370	7112.73

TOP END GASKET KITS FOR S&S SB-SERIES ENGINES 1986-'03

4"	90-9503	\$72.95
3%"	90-9509	\$75.95

CYLINDER HEAD, BASE & EXHAUST GASKET KITS FOR S&S SB-SERIES ENGINES 1986—'03

4"	.043" Micropore	90-1909	\$39.95
35%"	.045" Micropore	90-1908	\$36.95
3½"	.045" Micropore	90-1907	\$36.95
	.030" Layered Steel	900-0532	\$61.95

HEAD GASKETS

4"	.043" Micropore	each	93-1040-S	\$13.95
		2 pack	930-0087	\$21.95
		10 pack	93-1071	\$128.95
	.045" Micropore	each	93-1037-S	\$11.95
		2 pack	930-0091	\$21.95
25/11		10 pack	93-1052	\$128.95
3%"	.0625" Micropore	each	93-1016-S	\$16.95
		2 pack	930-0097	\$32.95
		10 pack	93-1053	\$161.95
3½"	.045" Micropore 16770-84D, 16770-84F	each	93-1011-S	\$14.95
		2 pack	930-0098	\$30.95
		10 pack	93-1024	\$139.95
	.0625" Micropore 16770-84D, 16770-84F, 10773-85	each	93-1313-S	\$16.95
		10 pack	93-1051	\$161.95
	.030" Layered Steel	each	900-0530	\$25.95

BASE GASKETS AND O-RINGS

4" .018" Microp		each	93-1031-5	\$6.95
	.018" Micropore	2 pack	930-0094	\$10.95
		10 pack	93-1067	\$43.95
35%"	.018" Micropore	each	93-1039-S	\$5.95
3½"	.018" Micropore	each	93-1038-5	\$5.05
	16777-83A, 16774-86D	CUCII	75 1050-5 95	

EXHAUST GASKETS

1986- 2003 Sportster Models	each	106-5029	\$4.95
65324-83B, 65324-83A	10 pack	93-1072	\$48.95
VALVE GUIDE SEALS			
1986–2003 Sportster Models	each	900-0338	\$3.95





ROCKER BOX GASKET KITS AND INDIVIDUAL GASKETS

S&S Billet			
Gasket Kit		90-4049	\$75.95
O-ring, (-223), 1.625" ID x 1.875" OD, Viton®	each	50-8044	\$3.95
Seal, Umbrella Valve Cover 26856-89, 26856-89A		90-4030	\$3.95
Gasket, Rocker Cover, S&S® Billet, O-ring, 1986-2003 xl		90-4048	\$16.95
Gasket, Bottom, Rocker Cover, 1986-2003 xl	each	900-0538	\$13.95
	2 pack	900-0592	\$27.95
Gasket, Kit, Rocker Box, 1986-'90 xl 17026-91A		900-0773	\$75.95
Gasket, Kit, Rocker Box, 1991-2003 xl 17026-91A		900-0774	\$75.95
Gasket, Kit, Rocker Box, 2004-'06 xl		900-0775	\$75.95
Gasket, Kit, Rocker Box, 2007-up xl		900-0776	\$75.95

LOWER END GASKETS AND SEALS

Gearcover gasket	each	31-2052	\$8.95
Camshaft Oil Seals, 1971 - up 11124		31-4051	\$18.95

TAPPET GUIDE O-RINGS

1" I.D. x ¹³ / ₁₆ " 0.D. x ³ / ₁₂ " CS (upper) 11167	each	50-8004	\$3.95
1" I.D. x 11/8" O.D. x 1/16" CS (lower)	each	50-8005	\$3.95
3%" I.D. x ½" O.D. x ¼6" CS (oil hole)	each	50-8006	\$3.95
11110	10 pack	50-8077	\$8.95

PUSHROD O-RINGS

O-ring, Kit, Pushrod Cover, 1986—2003 xl		93-4022	\$8.95
Top O-ring 11293, 11157, 11101, 11190	each	50-8039	\$3.95
Middle O-ring 11132A	each	50-8038	\$3.95
Bottom O-ring 11145A	each	50-8037	\$3.95

SPROCKET SHAFT SEAL

1991–′03 <i>35151-74A</i>	31-4060	\$18.95
1991—'03 S&S SA cases, BT style 12026B	31-4010	\$9.95

FUEL SYSTEM GASKETS

Manifold Seals			
COC Manifold O vina	each	16-0235	\$7.95
S&S Manifold O-ring	10 pack	16-0243	\$49.95
Stock Manifold O-ring	each	16-0236	\$6.95
26995-86B, 26995-86A, 26992-99	10 pack	16-0244	\$43.95
Cap, rubber, manifold, fitting		50-8372	\$3.95

CLASSIC TEARDROP AIR CLEANER

De de Diata con dest	each	106-1724	\$4.95
Back Plate gasket	10 pack	106-2328	\$27.95
Vent seal washers silicone coated steel ½"	(each)	50-7054	\$3.95
vent seal washers silicone coated steel 72	10 pack	50-7059	\$13.95

STEALTH AIR CLEANER

Back Plate gasket			
Stock CV Carb & EFI Throttle Body,1991—up xl		106-6022	\$4.95
29062-95B		100-0022	34.93
Curan F/C	each	106-1724	\$4.95
Super E/G.	10 pack	106-2328	\$27.95
For Muscle air cleaner (includes lanyards)		170-0137	\$25.95
Vent seal washers Nitrile Rubber Coated,	each	50-7055	\$3.95
520" x .880" x .024" xl 1991–'06	10 pack	50-7057	\$13.95



SINGLE BORE TUNED INDUCTION SYSTEM

Back Plate gasket			
Cachet Packulate F/C/CDFFI	each	106-1724	\$4.95
Gasket, Backplate - E/G/SBEFI	10 pack	106-2328	\$27.95
Gasket, S&S SBEFI 58mm		106-4662	\$6.95
Gasket, Stock carb/Throttle Body 29062-95B		106-6022	\$4.95
Adaptor plate gasket		17-1022	\$6.95
Adaptor plate bracket o-ring	each	50-0446	\$4.95

CARBURETOR GASKETS

Bowl Gasket, Super E & G		11-2386	\$4.95	
Pump cap o-ring - (two required)		each	50-8012	\$3.95
		10 Pack	50-8100	\$12.95
Idle Mixture Needle o-ring		each	500-0036	\$3.95
		10 pack	500-0148	\$8.95
Bellows Seal, Accelerator Pu	mp		11-2266	\$5.95
Accelerator pump diaphram			11-2282	\$16.95
	C	each	50-8016	\$3.95
Manifold to carb orings	Super E	10 pack	50-8094	\$11.95
various sizes	CC	each	50-8015	\$3.95
	Super G	10 pack	50-8093	\$11.95
Control book above the	-	each	50-8009	\$3.95
Seat and bowl plug o-ring		10 pack	50-8095	\$14.95



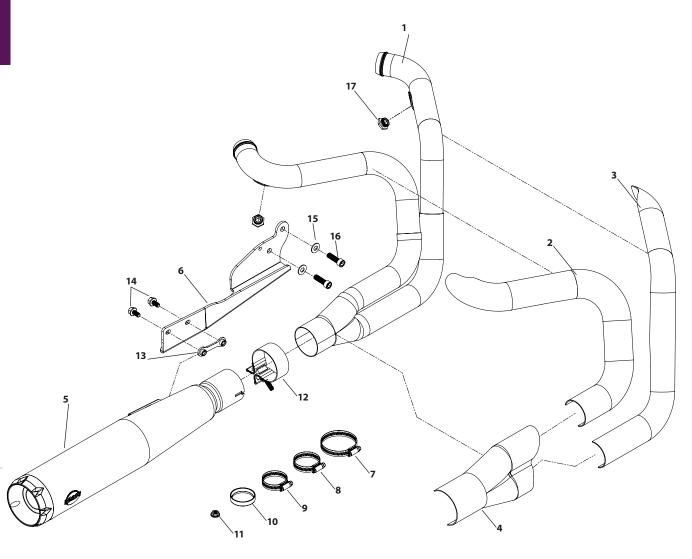




11-2282

SUPERSTREET 2:1 REPLACEMENT PARTS

1. Header 551-1138 \$269.95 2. Heat Shield, Rear 551-1144 \$109.95 3. Heat Shield, Front 551-1141 \$109.95 4. Heat Shield, Collector 551-1139 \$59.95 5. Muffler, 2007—'13 551-1148 \$289.95 Muffler, 2014—'20 551-1149A \$474.95 6. Bracket 551-1153 \$29.95 7. Clamp, Hose, Worm Drive, SAE #40 551-0402 \$2.95 8. Clamp, Hose, Worm Drive, SAE #40 551-0402 \$2.95
3. Heat Shield, Front. 551-1141 \$109.95 4. Heat Shield, Collector 551-1139 \$59.95 5. Muffler, 2007-'13 551-1148 \$289.95 Muffler, 2014-'20 551-1149A \$474.95 6. Bracket 551-1153 \$29.95 7. Clamp, Hose, Worm Drive, SAE #40 551-0402 \$2.95
5. Muffler, 2007–'13 551-1148 \$289.95 Muffler, 2014–'20 551-1149A \$474.95 6. Bracket 551-1153 \$29.95 7. Clamp, Hose, Worm Drive, SAE #40 551-0402 \$2.95
Muffler, 2014—'20 551-1149A \$474.95 6. Bracket 551-1153 \$29.95 7. Clamp, Hose, Worm Drive, SAE #40 551-0402 \$2.95
6. Bracket 551-1153 \$29.95 7. Clamp, Hose, Worm Drive, SAE #40 551-0402 \$2.95
7. Clamp, Hose, Worm Drive, SAE #40
9 Clamp Hose Worm Drive CAF #24 FOO 0701 61.05
8. Clamp, Hose, Worm Drive, SAE #24
9. Clamp, Hose, Worm Drive, SAE #20
10. Gasket, Exhaust, Tapered, Stainless Steel
11. Nut, HSFH, 5/16-24 UNF-2B x .283", Zinc, Steel, 2 Pack 50-5025-2 \$3.95
12. Clamp, Muffler, Band Style, 2.5"
13. Plate, Nut, 5/16-18 x 2", Clear, Zinc
14. Screw, Flanged, 5/16-18 x 5/8", Zinc Plated 500-0984 \$0.95
15. Washer, Flat, .375" x .813" x .063", Zinc, Steel
16. Screw, SHCS, 3/8–16 x 1–1/4", Zinc, Steel
17. Adapter, Oxygen Sensor, 12mm to 18mm, Stainless Steel 550-0375 <i>\$10.95</i>

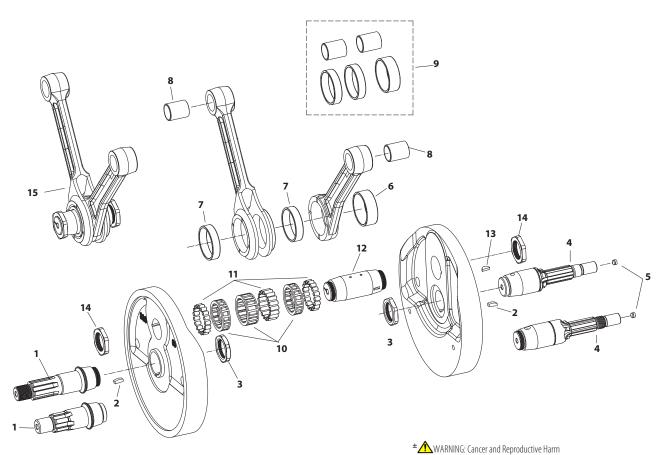


FLYWHEEL REPLACEMENT PARTS

1.	Sprocket Shaft (includes #2 & 3) 1986-1990 xl w/ S&S D/SB/SBD/SC/SCD/SCDR/SCR flywheels	1070E
	1991-2003 xl w/ S&S D flywheels & 1994-1999 Buell	
	33-2303	196.95
2.	Key (each)	8.95
3.	Nut	8.95
4.	Pinion Shaft 1986–2003 xl <i>(includes #2, 3, 5)</i>	
	w/S&S D/DR flywheels / 1994–1999 Buell	268.95
	w/S&S D/DR/DF flywheels - Special Application, +.500"	
_	33-2329	268.95
5.	Meter Plug-	
	.0625" hole	
,	no hole - Special application	
6.	Front Rod Race 24352-52A	32.93
7.	Rear Rod Race 24341-524	/1.95
8.	Wrist Pin Bushing .767" x .895" x .950" 24331-36	
	(for use with Heavy Duty Rods)	12 05
	.767" x .895" x 1.077" 24334-36	12.73
	(for use with Supreme Rods)	795
9.	Race and Bushing Set (includes #6, 7, 8)	,,,,
٠.	(for use with Heavy Duty Rods)	161.95
10.	Alloy Bearing Cage Set	
	Searing eage section	

11. Bearing Set Standard 24354-87A	\$85.95
12. Crankpin (includes #13 &14) Late 1981–1999 Sportster Standard 23960-80A	\$138.95 \$138.95 \$138.95
13. Crankpin Key late 1981–1999 Sportster / 1994–1999 Buell 11218 each	\$3.95 \$9.95 \$14.95
24275-86A	\$856.95

ANY JOB IS EASY WITH THE RIGHT TOOLS
COMPLETE S&S FLYWHEEL REBALANCING KIT PAGE 326



OTES

S&S° connecting rods, with their beefier than stock construction, are slightly heavier than stock connecting rods. Therefore, rebalancing the flywheels is recommended when S&S connecting rods are used in stock replacement applications. We realize that rebalancing is an inconvenience, but we did not want to sacrifice rod strength for convenience's sake. In addition, given the variations in stock and aftermarket components available to engine builders, flywheel rebalancing is a desirable step in any major engine overhaul. In some cases, stock flywheels will need to be relieved to clear the rods.

All S&S mainshafts for Harley-Davidson® Sportster® models are designed for use in flywheels with tapered mainshaft holes. 1986—later stock flywheels have mainshafts which are manufactured as an integral part of the flywheel.

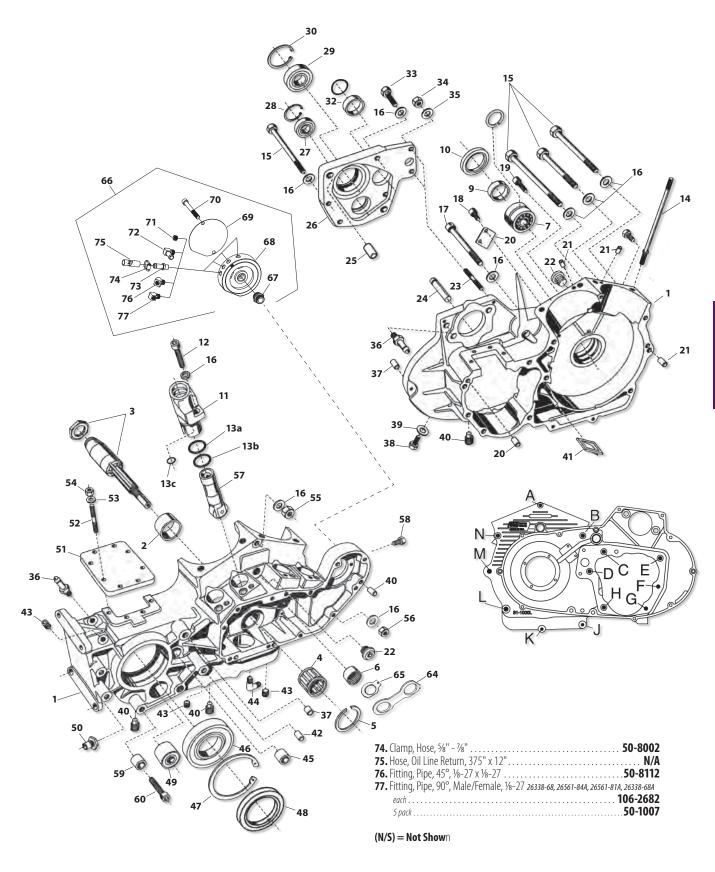
S&S pinion shafts for 1986-'03 Sportster models are the splined 1986-'87 style. Pinion and oil pump drive gears in 1988-'03 models must be replaced with early style gears.



CRANKCASE REPLACEMENT PARTS FOR SB100, 1986–'03 SPORTSTER® & 1994–'02 BUELL® MODELS

ľ	K 2B 100, 1980– 03 2POK 121 1	:K° & 1994– UZ
1	Crankcase assembly half	N/A
2.	Crankcase assembly, half	31-4050 \$101.95
3.	Pinion shaft assembly – Standard	
	1986-'03 xl/1994-'02 Buell	33-2325 \$268.95
	1986-up S&S SA only	33-2329 <i>\$268.95</i>
•	Right main bearing assembly 1986-'03	ATT . 24 . 40
	Blue 24647-87.	31-4055 \$28.95
	Red 24650-87	6 21-4020 \$28.95
	Green 24660-87	31-4058 \$28.95
	Ring, main bearing retainer 1986–'03 11177A.	50-8057 \$1.95
	5 pack	50-1004 \$10.95
	Cam needle bearing assembly — 1986-'039057	6¹²⁵•31-4061 \$25.95
	Left Timken® main bearing assembly, 1991-'03 24729-7-	4, 48302-85)
	Carana Lafa Maria Danzina a 1074 102 d Fibra de al disa	• • • • • • • • • • • • • • • • • •
•	Spacer, Left Main Bearing — 1974-'03 xl Fits stock dian	Teter snatt.
	.098"	31-4002 \$8.95
	1015 - 1025 9143	31-4064 \$6.93 31-4065 \$11 95
	.1035"1045"	31-4066 \$8.95
	1075" - 1085" <i>9146</i>	31-4067 \$8.95
	.110" 9147	. 31-4068 <i>\$12.95</i>
	.114"	31-4070 <i>\$12.95</i>
		31-4034 \$64.95
١.	Seal, sprocket shaft oil, 1991-'03 xl 35151-74A	31-4060 <i>\$18.95</i>
	Tappet guide assembly (See page 270) Screw, SHC – 18 x 1" 3201WA, 2708	EA 0101 ¢0.05
	O-ring	30-0101 30.93
•	13a. 1" I.D. x ¹³ / ₁₆ " 0.D. x ³ / ₂ 2" CS (upper) <i>11167</i>	50-8004 \$3.95
	13b. 1" I.D. x 11/8" 0.D. x 1/6" CS (lower) 11168A	50-8005 \$3.95
	13c. 38" I.D. x ½" O.D. x 1/16" CS (oil hole) 11110	50-8006 \$3.95
	10 pack	50-8077 <i>\$8.95</i>
ŀ.	Cylinder stud 1991-'03 style 16832-860	△ 31-2331- 5 \$7.95
	8 pack	331-2331 \$46.95
۶.		
	(Position A) S&S xl ½"-28 x 5½" (each)	FO 0000 63.05
	S&S SA xl 1/4"-28 x 6" (each)	50-0090 \$3.95
	(Position E, F, G, H)	30-0020 <i>35.53</i>
	S&S xI HHC 5/6"-18 x 4"	50-0102 \$3.95
	(Position J, K)	
	\$&\$ xl 1/4"-20 x 3/4"	50-0022 <i>\$0.95</i>
	(Position L, M)	
	\$&\$ x 3%"-24 x 51/2" (5 pack)	50-0170 <i>\$6.95</i>
	(Position N) %6"-18 x 3½" 3427	50-0117 <i>\$3.95</i>
	Washer, flat — See "Bolt Position Diagram".	30-011/ \$3.93
•	(Position A, J, K)	
	1/4" x .474" x .050" (each)	50-7020 \$3.95
	(Position B. C. D. N) & Tappet guide	
	5/16" X .548" X 1/16" (each)	50-7025 \$3. <i>95</i>
	(Position E, F, G, H)	
	5/16" X 11/16" X 1/8"	50-7033 <i>\$0.95</i>
	(Position L, M)	FO 70F3 64.05
,	3/8" x 7/8" x .146" (each)	50-/053 \$4.95
•	See "Bolt Location Diagram"	
	(Positions R (D H)	50-0021 \$3.95
	(Positions B, C, D, H)	50-0023 \$3.95
١.	10-24 x 1" (Stator) 2720 (each)	50-0044 \$3.95
١.		31-2050 \$795
١.	Cover, stator wires 29950-91	
).).	Dowel pin250" diameter x ½" 358, 366	50-8022 <i>\$4.95</i>
).).	Dowel pin – .250" diameter x ½" 358, 366	50-8022 <i>\$4.95</i> 50-8022-2 <i>\$9.95</i>
).).	Dowel pin – .250" diameter x ½" 358, 366	50-8022 <i>\$4.95</i> 50-8022-2 <i>\$9.95</i>
).). .	Dowel pin250" diameter x ½" 358, 366	50-8022 \$4.95 50-8022-2 \$9.95 50-8105 \$9.95

25.	Dowel pin – 1991-'03 (transmission door)		
	%" diameter x ½	50-8020	\$5.95
	.390" I.D. x .558" O.D. x ½" 16574-99A, 16573-83, 16573-83A	50-8023	\$4.95 \$21.05
26	10 pack	56-3025	321.93 \$268.95
20.	(Includes 1 ea. transmission access door, 50-8007, 56-3030.)	30 3023	420017 5
27.	Bearing, transmission countershaft (LH) 1991-'03 8992A, 8998		
20	Di	56-3026	\$43.95
	Ring, transmission countershaft bearing retainer, 1991–'03 35021-89	50-8053	\$5 95
29.	Bearing, transmission mainshaft (LH) 1991-'03 35030-89, 35030-89A Ring, transmission mainshaft bearing retainer, 1991-'03	.50 0055	45.25
	35030-89, 35030-89A	56-3027	\$81.95
30.	Ring, transmission mainshaft bearing retainer, 1991–'03	EU 60E3	¢10 05
31	35038-84, 35038-89	50-8002	\$10.25 \$1.35
	Bushing, shifter drum – unfinished — 1991-'03 9187		
		56-3030	\$14.95
	Screw, HHC 5/16"-18 x 11/4" (10 pack)		
35.	Washer flat 1/4" x 5%" x 1/16" 6194 6245 6703 6736 6228W 6192		
	each	50-7021	\$3.95
36.	Fitting, hose — 1/8" –27 pipe male transmission vent	FA 044-	£5.05
37	Dowel pin309" I.D. x .430" O.D. x ½"	3D-8115	<i>\$5.95</i>
	24754-75, 24754-75A	50-8018	\$6.95
38.	Screw, HHC - 1/4"-20 x 1/2", primary oil level 3728	50-0014	\$0.95
39.	Washer, flat ¼" x 5%" x ½2" copper, primary oil level 6114	EN 7010	¢n ne
40.	Plug, drain	. 30-7016	\$U.93
	3/8"-18 NPT Manufactured before 5-1-2000	.31-2006	\$17.95
	1/2"-20 thread — (Includes o-ring.) Manufactured after 5-1-2000	50-8335	\$13.95
41.	Reed valve assembly ,1991-'03 (Optional)	31-2051 N/Δ	\$148.95
43.	Plug, SH pipe, ¼-27 (each)	0-8331A	- \$3.95
	10 pack	50-1015	\$11.95
44.	Fitting, 90° - 1/8" - 27 pipe male x 5/6" flared tube	.50-8119	\$14.95
45. 46.	Bearing, transmission shifter drum (RH) 1991-'03	.50-3032 •56-1280	\$18.95 \$68.95
47.	Ring, transmission output shaft bearing retainer,		
	109" x 3.734" tru-arc 11161, 11599	50-8051	\$21.95
48.	Seal,Transmission Output Shaft 2.255" x 3.388" x .250,1995-'03 xl 120678	56-3033	¢12.05
49.	Bearing, transmission countershaft (RH) 1991–'03	56-3031	\$12.95 \$33.95
50.	Nut, press-in, 3/8"-24 - All 1991-'03	.31-2048	\$15.95
51.	Cover, transmission inspection window 1991-up S&S SA cases only	.31-2055	\$151.95
52. 53	Stud – 18, 14" – 18, 14" – 24 x 1.370" 1991-up S&S SA cases only	50-8081	\$7.95 \$0.95
54.	Nut, hex - 5/16" -24 7833, 7883	50-5023	\$0.95
55.	Nut, hex - 1/4"-28 7683	.50-5011	\$0.95
56.	Nut, hex - %"-24 7861	.50-5037	\$0.95
57. 58.	%"-16 x ½" BHCS	N/A	_
59.	%6" x ¾" .35 Shim	50-7044	\$3.95
	1/4"-20 x 2" SHCS 25794-36		
61. 62	Gasket, gearcover, S&S (N/S)	50-8112	⊋0.Уጋ \$5 21
63.	Oil Pump, Assembly, Stock, 1991-up xl (N/S)		
	26488-98, 26204-91A	06-5368	\$482.95
64.	Washer, Cam, I hrust, Double, .043", 1958-'90 xl, .043"	N/A 33-5210	- \$75.05
65.	Washer, Cam, Thrust, For S&S Cam Covers only, .062"	.33-5211	\$39.95
66.	Bracket Kit, Oil Filter 1986-'90 xl	06-3134±	\$182.95
67.	Fitting, Straight, ¾-16 UNF 2A x 1" 26352-95A	0-8197-S	\$13.95
68. 60	Bracket, Oil Filter	N/A 06-4423	- \$7.05
70.	Screw, SHC, %6-24 x 2-34"	50-0017	\$4.95
71.	Plug, Pipe, ¾" x 1/8-27 x .188"	0-8331A	\$3.95
72	10 pack	50-1015	\$11.95
72. 73	Fitting, Pipe, 90 , %-27 x .375	50-8115	3∠1.У5 \$5.95
, ,,	g, 1103c, 30141g11q /0 21 N.300	.50 0115	75.75



All reference to HD° part numbers is for identification purposes only. We in no way are implying that any of S&S Cycle's products are original equipment parts or that they are equivalent to the corresponding HD° part number shown.





&S Late Models 1999-up

SUPER STOCK® CYLINDER HEAD REPLACEMENT PARTS SPORTSTER® MODELS 3-5/8" TO 4" BORE

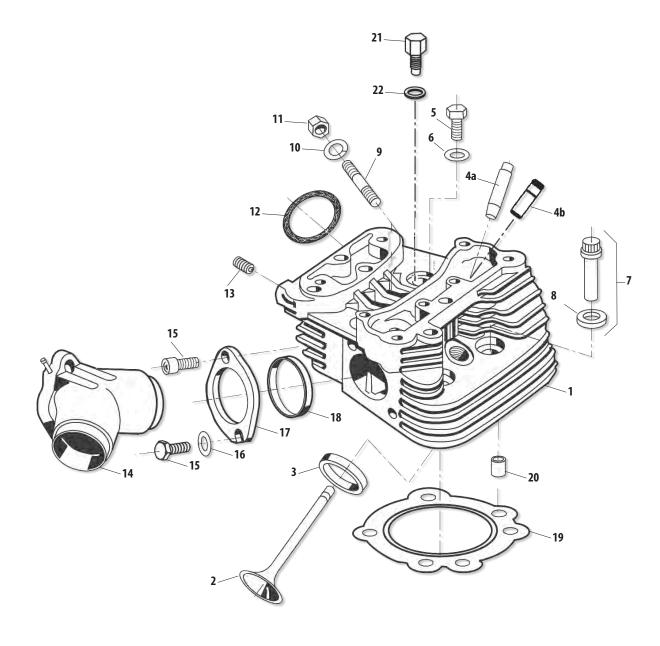
	Culinday hand (Congression and 2011)	
1. 2.	Cylinder head (See cylinders on page 294) Valves	
۷.	Intake	
	2.000" diameter. USA 90-2000	\$29.95
	2.000 diameter + .085" stem length	\$31.95
	Exhaust	451.75
	1.605" diameter. USA 90-2001	\$65.95
3.	Valve seats	,
	Intake - 2.000" diameter	\$24.95
	Exhaust - 1.605" diameter	\$56.95
4a.	Valve guide - Cast- Intake or Exhaust	
	Standard Diameter .5625/.5620 18112-92	\$30.95
	+.001" Diameter .5635/.5630 18130-83 C	\$64.95
	+.002" Diameter .5645/.5640 18133-83A, 18133-83D	\$85.95
	+.003" Diameter .5655/.5650 18131-83C	\$96.95
	+.030" Diameter .5925/.5920	\$54.95
4b.	Valve guide –Powder Metal – Intake or Exhaust	
	Standard	
	+.001"	
	+.002"	
_	+.003"	\$34.95
5.	Head mount bolt - 3/8"-16 x 11/4" 4716W	ć2 0 <i>r</i>
,	each	\$3.95 \$3.95
6.	Head bolt assembly — Includes head bolt washer	\$3.95
7.	(See headbolts on page 279)	
8.	Head bolt washer	
0.	.150" (each)	\$5.95
	.250" (each)	\$3.95
9.	Exhaust port stud <i>16715-83 (each)</i> 50-0493	\$3.95
	5 pack	\$14.95
10.	Lock washer - 5/16"	\$0.95
	Nut, HH - 5/16" -24 7833, 7883	\$0.95
	Exhaust pipe gasket 65324-83B, 65324-83A	
	each	\$4.95
	10 pack	\$48.95
	Thread conversion insert 1/2"-13 to 5/16"-18 50-8151	\$7.95
	Intake manifold (See manifolds on page 286)	
15.	Screw, manifold mounting	
	SH - 5/6"-18 x 1" <i>3201WA</i> , <i>2708</i>	\$0.95
	HH - 5/16"-18 x 1" 3987 (each)	\$3.95
	Washer, flat - 5/16" 6320, 70907-07, 6016, 6702	\$0.95
17.	Flange, manifold mounting	ć 42.05
	Front 27009-864 (each)	\$42.95
	5 pack. •• 16-0600 Rear 27010-86A (each). •• 516-0233	\$203.95 \$42.95
	5 pack	\$42.95
	Set (Front & Rear) 106-3516	\$64.95
1Ω	O-ring, manifold (each)	\$7.95
10.	10 pack	\$49.95
	10 02-13	,

19.	Head gasket 3½" Bore	
	.045" thick — (no o-rings required) <i>16770-840, 16770-84F</i>	
	each	\$14.95
	10 pack	\$14.95 \$139.95
		رو.ورا ډ
	.0625" thick — (No o-rings required 16770-840, 16770-84F, 10773-85	\$16.95
	each	\$16.95 \$161.95
	10 pack 93-1051	\$101.93
	35%" Bore	Ċ11 ΩΓ
	.045" thick — (no o-rings required) (each)	\$11.95
	10 pack	\$128.95
	.062" thick — (no o-rings required) (each)	\$16.95
	10 pack	\$161.95
	4" Bore	
	.045" thick (each)	\$13.95
	10 pack	\$128.95
20.	Alignment dowel 16574-99A, 16573-83, 16573-83A	
	each	\$4.95
	10 pack	\$21.95
	Dowel pin - 1/4" diameter x 1/2" - 4" bore 358, 366	
	each	\$4.95
	2 pack	\$9.95
	5 pack	\$9.95
21.	Plug, HH - 14mm (each)	\$17.95
	2 pack	\$27.95
22.	Washer, compression release- 14mm .507" x .705" x .047"	
	each	\$11.95
	SKET KITS	
23.	Rocker cover gasket kits, 1986-'03 xl	
	S&S Billet rocker cover, Rubber (N/S)90-4049	
	S&S Cast rocker cover, Rubber (N/S)	\$69.95
24.	Pushrod cover o-ring kit (N/S)	
	1986-'90 xl 93-4022	\$8.95
	Includes 4 each:	
	Bottom 11145A (each)	
	Middle 11132A (each)	
	Top 11293, 11157, 11101, 11190 (each)	
	Flat washer, bottom pushrod tube (N/S)	\$0.95
26.	Top End Rebuild Kits for SB-Series Engines (N/S)	
	4" Bore	
	3%" Bore	\$75.95

(N/S) = Not Shown

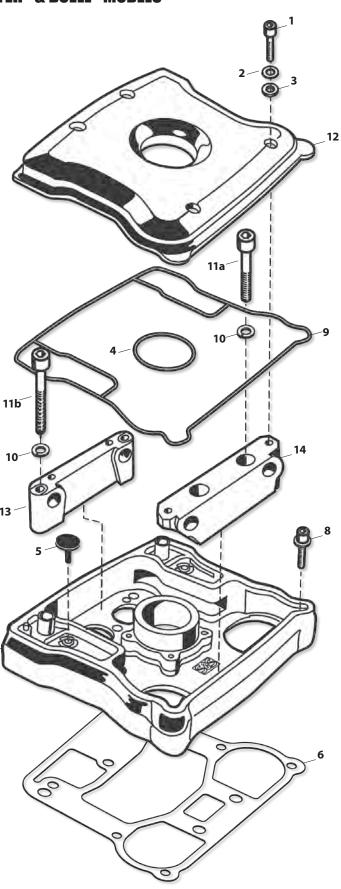


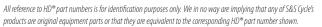
S&S heads for Harley-Davidson® Sportster® and Buell® models are similar but have different diameter front motor mount holes.



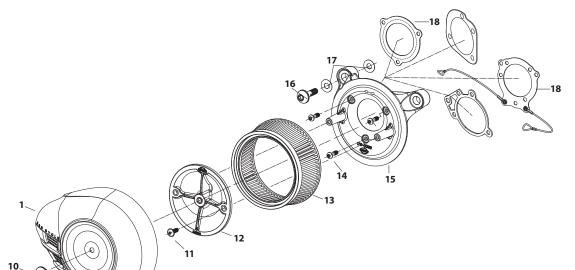
BILLET ROCKER COVER REPLACEMENT PARTS FOR 1986—'03 HARLEY-DAVIDSON® SPORTSTER® & BUELL® MODELS

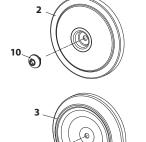
1.	Screw, SH - 1/4"-20 x 3/4" 4069A (each)	50-0067	\$3.95
2.	Washer, flat – ¼" (each)	50-7017	\$3.95
	12 pack		
3.	Washer, flat - ¼" rubber covered (each)	50-7015	\$3.95
	8 pack		
	12 pack		
4.	0-ring — 15%" I.D. x 17%" O.D. x 1%" CS Viton ®		
5.	Rocker cover umbrella valve 26856-89, 26856-89A		
	1990-up xl	90-4030	\$3.95
6.			
	each	900-0538	\$13.95
	2 pack		
7.	Rocker cover base — billet		
	Chrome	90-4051±	\$418.95
	Natural		
8.	Screw, SH w/washer — 1/4"-20 x 1" 4741A		
	, (each)	50-0092-S	\$3.95
	4 pack	50-0092P	\$6.95
9.	Rocker cover o-ring gasket — S&S billet rocker cover		
	(Included in gasket set. See #16 below.)		
10.	Washer, flat — 5/16" (each)	50-7026	\$3.95
	Bolt, rocker support — socket head		
	11a. 5/16" – 18 x 21/4" (left support) (each)	50-0115-S	\$3.95
	11b. 5/16" – 18 x 2½" (right support) 876A (each)		
12.	Rocker cover top — Billet Chrome		
13.			
14.	Left rocker shaft support — billet		
	Rocker cover gasket set — S&S billet rocker cover		
	(Not shown)	90-4049	\$75.95

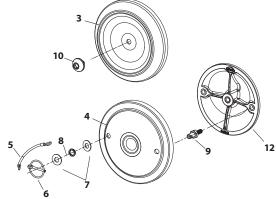




STEALTH AIR CLEANER REPLACEMENT PARTS







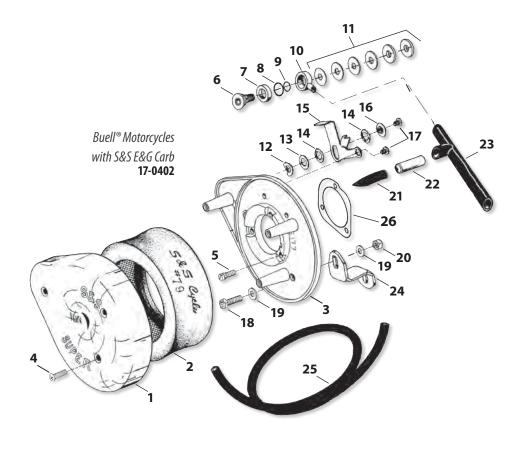
1.	Cover, Air Cleaner Airstream	£4.64.05
	Chrome	\$161.95
_	Gloss Black	\$161.95
2.	Cover, Air Cleaner, Domed Bobber	ć120.05
	Chrome	\$128.95
	Wrinkle Black	\$128.95
3.	Cover, Air Cleaner, Dished Bobber	\$128.95
	Chrome	,
	Wrinkle Black	\$128.95
4.	Cover Air Cleaner, Muscle	\$107.95
	Chrome	,
	Gloss Black	\$107.95 \$9.95
5.	Lanyard, 6" Stainless Steel	7
6.	Lynch Pin	\$18.95 \$3.95
7.	Washer, Fender, Chrome Plated	\$3.95 \$7.95
8.	Spring, Wave Washer, Stainless Steel	\$17.95
9.	Screw, Hex, Hood-pin, ¼-20, UNC	\$17.95 \$18.95
	Air Cleaner Cover Screw, SHCB, 5%"-18 UNC X .500" 170-0508	\$18.95 \$3.95
	Screw, SHC, Flanged Button, ¼-20 UNC x .750"	\$3.95 \$14.95
	Top Plate, Air Filter, Molded, Plastic	\$14.95
13.	Filter, Air, Tapered,	\$43.95
	Standard Pleated, Cotton, Stealth Air Cleaner Kit 170-0126	\$73.95
	1" Taller Pleated, Cotton, Stealth Air Cleaner Kit 170-0127	\$47.95
14	1" Taller Pleated, Cotton Filter Only	\$3.95
	Screw, SHCB, 14–20 UNC X .825"	75.75
15.	Stock CV & EFI, Black, Die Cast, 1991–2016 xl	\$75.95
	Super E/G, Black, Die Cast, 1991–2010 xl	\$89.95
16	Screw, Backplate Vent, SHCB, ½–16 x 1½", Polished Stainless	707.75
10.	170-0044	\$25.95
17	Washer,Flat, ,Nitrile Rubber Coated, .380" x .880" x .024"	723.73
17.	each	\$3.95
	10 pack	\$13.95
18	Gasket, Backplate	Ţ.5.75
10.	Stock CV Carb & EFI Throttle Body, 1991–2016 xl	
	(except Throttle by Wire)	\$4.95
	Super E/G	\$4.95
	w/ lanyards for use with Muscle Cover	\$25.95
	in languages of age maintagere cover	

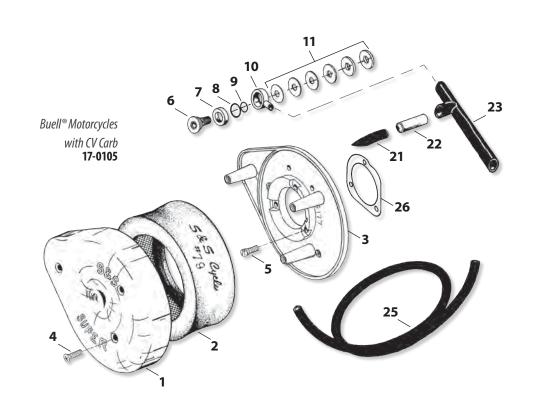


CLASSIC TEARDROP AIR CLEANER REPLACEMENT PARTS FOR BUELL® MOTORCYCLES WITH STOCK OR S&S CARB

Chrome	
3. Air cleaner backing plate Super E & G carburetors	\$168.95
Super E & G carburetors. 17-0000 \$9 Stock carburetors. 17-0003 \$9 4. Cover screw Chrome 1305 (each). 50-0072± \$3 3 pack. 50-1052± \$4 10 pack. 50-0094± \$9 Black 902 (each). 50-0310-5 \$5 3 pack. 50-0310-5 \$5 3 pack. 50-0310-5 \$5 3 pack. 50-0310-5 \$5 50-0310-5 \$5 50-0310-5 \$5 50-0310-5 \$5 50-0310-5 \$5 50-0310-5 \$5 50-0310-5 \$5 50-0310-5 \$5 50-0310-5 \$5 50-0310-5 \$6 6. Cap screw, breather & air cleaner mount 17-0338 \$9 7. Shim, 620" I.D. x. 800" 0.D. x. 185" (each). N/A - 8. O-ring ½" 0.D. x ½" I.D. x ½" (S (each). 50-8270 \$3 5 pack. 50-8130 \$4 9. O-ring ¾" 0.D. x ½" I.D. x ½" (S (each). 50-8006 \$3 10 pack. 50-8077 \$8 10. Breather fitting (each) 17-0355 \$5 2 pack. 50-8077 \$8 11. Shim kit air cleaner backplate (includes 4 each of .018", 030", 048"). 17-0464 \$1 Replacement Shims ½" x 1" x .018 (each). 50-7085 \$3 ½" x 1" x .018 (each). 50-7086 \$3 ½" x 1" x .048 (each). 50-7087 \$3 ½" x 1" x .048 (each). 50-7087 \$3 ½" x 1" x .105 (each). 50-7089 \$3 10 pack. 50-7006 \$4 14. Washer, flat, nylon .323" x ½" x .020" (each) 50-7036 \$3 10 pack. 50-7006 \$4 15. Lever, fast idle, 17-0325 \$0-7006 \$4 16. Washer, flat, nylon .323" x ½" x .020" (each) 50-7007 \$3 10 pack. 50-7006 \$4 17. Screw, PH slotted 10-24 x ¼" (each) 50-7007 \$3 10 pack. 50-7006 \$4 18. Screw, HH, cap, ¼" -28 x ½" 50-0074 \$0 19. Washer, flat, .281" x .625" x .080" 6194, 6245, 6703, 6736, 6228W, 6192 each 50-7001 \$3 20. Locknut - ¼" -28 (each) 50-5010 \$3 21. Hose, breather vent. 17-0365 \$4	\$19.95
Stock carburetors. 17-0003 59 4. Cover screw Chrome 1305 (each). 50-0072± 53 3 pack. 50-1052± 54 10 pack. 50-0094± 59 Black 902 (each) . 50-0310-5 55 3 pack 50-0310 57 5. Air cleaner backplate screw For S&S Super E&G Zinc Plated (each) . 106-2084 53 10 pack. 106-2105 58 6. Cap screw, breather & air cleaner mount 17-0338 59 7. Shim, 620" I.D. x. 800" 0.D. x. 185" (each) . N/A 8. O-ring ½" 0.D. x. ½" I.D. x. ½" (S (each) . 50-8270 53 5 pack . 50-8130 54 9. O-ring ½" 0.D. x. ½" I.D. x. ½" (S (each) . 50-8006 53 10 pack . 50-8077 58 10. Breather fitting (each) . 17-0350 55 2 pack . 17-0355 58 11. Shim kit air cleaner backplate (includes 4 each of .018", 030", 048") . 17-0464 51 Replacement Shims ½" x 1" x .018 (each) . 50-7085 53 ½" x 1" x .030 (each) . 50-7086 33 ½" x 1" x .048 (each) . 50-7087 33 ½" x 1" x .048 (each) . 50-7087 33 ½" x 1" x .048 (each) . 50-7087 33 10 pack . 50-7085 57 12. Washer, filat .323" x ½" x ½" (each) . 50-7035 53 10 pack . 50-7065 54 14. Washer, flat , 1323" x ½" x ½" (each) . 50-7036 33 10 pack . 50-7065 33 10 pack . 50-7066 34 11. Sherry Flat will be seen the seen of . 50-7066 33 10 pack . 50-7065 33 10 pack . 50-7066 34 11. Screw, PH slotted 10-24 x ½" x (each) . 50-7066 35 10 pack . 50-7067 33 10 pack . 50-7067 33 10 pack . 50-7067 34 10 pack . 50-7067 33 10 pac	
4. Cover screw Chrome 1305 (each)	\$99.95
Chrome 1305 (each)	\$97.95
3 pack. 50-1052± \$4 10 pack. 50-094± \$9 Black so2 (each) . 50-0310-5 \$5 3 pack. 50-0310 \$7 5. Air cleaner backplate screw For \$8\$ Super E&G Zinc Plated (each) . 106-2084 \$3 10 pack. 106-2105 \$8 6. Cap screw, breather & air cleaner mount . 17-0338 \$9 7. Shim, 620" I.D. x .800" 0.D. x .185" (each) . N/A - 8. O-ring ½" 0.D. x ½" I.D. x ½" (\$2 (each) . 50-8270 \$3 5 pack . 50-8130 \$4 9. O-ring ¾" 0.D. x ½" I.D. x ½" (\$5 (each) . 50-8006 \$3 10 pack . 50-807 \$8 10. Breather fitting (each) . 17-0355 \$8 11. Shim kit air cleaner backplate (includes 4 each of .018", 030", 048") . 17-0464 \$7 Replacement Shims ½" x 1" x .018 (each) . 50-7085 \$3 ½" x 1" x .030 (each) . 50-7085 \$3 ½" x 1" x .105 (each) . 50-7087 \$3 ½" x 1" x .105 (each) . 50-7087 \$3 ½" x 1" x .105 (each) . 50-7089 \$3 ½" x 1" x .125 (each) . 50-7036 \$3 10 pack . 50-7037 \$3 10 pack . 50-7037 \$3 10 pack . 50-7036 \$3 10 pack . 50-7036 \$3 10 pack . 50-7036 \$3 10 pack . 50-7037 \$3 10 pack	
3 pack. 50-1052± \$4 10 pack. 50-094± \$9 Black so2 (each) . 50-0310-5 \$5 3 pack. 50-0310 \$7 5. Air cleaner backplate screw For \$8\$ Super E&G Zinc Plated (each) . 106-2084 \$3 10 pack. 106-2105 \$8 6. Cap screw, breather & air cleaner mount . 17-0338 \$9 7. Shim, 620" I.D. x .800" 0.D. x .185" (each) . N/A - 8. O-ring ½" 0.D. x ½" I.D. x ½" (\$2 (each) . 50-8270 \$3 5 pack . 50-8130 \$4 9. O-ring ¾" 0.D. x ½" I.D. x ½" (\$5 (each) . 50-8006 \$3 10 pack . 50-807 \$8 10. Breather fitting (each) . 17-0355 \$8 11. Shim kit air cleaner backplate (includes 4 each of .018", 030", 048") . 17-0464 \$7 Replacement Shims ½" x 1" x .018 (each) . 50-7085 \$3 ½" x 1" x .030 (each) . 50-7085 \$3 ½" x 1" x .105 (each) . 50-7087 \$3 ½" x 1" x .105 (each) . 50-7087 \$3 ½" x 1" x .105 (each) . 50-7089 \$3 ½" x 1" x .125 (each) . 50-7036 \$3 10 pack . 50-7037 \$3 10 pack . 50-7037 \$3 10 pack . 50-7036 \$3 10 pack . 50-7036 \$3 10 pack . 50-7036 \$3 10 pack . 50-7037 \$3 10 pack	\$3.95
10 pack	
Black 902 (each)	
3 pack	
5. Air cleaner backplate screw For S&S Super E&G Zinc Plated (each)	
For S&S Super E&G Zinc Plated (each)	
Zinc Plated (each) 106-2084 53 10 pack 106-2105 58 6. Cap screw, breather & air cleaner mount 17-0338 59 7. Shim, 620" I.D. x. 800" O.D. x. 185" (each) N/A - 8. O-ring ½" O.D. x ¾" I.D. x ¼6" CS (each) 50-8270 33 5 pack 50-8130 54 9. O-ring ¾" O.D. x ½" I.D. x ¼6" CS 11110 (each) 50-8006 53 10 pack 50-8077 58 10. Breather fitting (each) 17-0355 58 11. Shim kit air cleaner backplate (includes 4 each of .018", .030", .048") 17-0464 57 Replacement Shims ½" x 1" x .018 (each) 50-7085 53 ½" x 1" x .030 (each) 50-7086 53 ½" x 1" x .048 (each) 50-7087 53 ½" x 1" x .105 (each) 50-7087 53 ½" x 1" x .105 (each) 50-7087 53 ½" x 1" x .125 (each) 50-7089 55 12. Washer, friction, spring (each) 50-7058 57 10 pack 50-7058 57 11. Shim kit air cleaner backplate (includes 4 each of .018", .030", .048") 17-0464 57 Replacement Shims ½" x 1" x .048 (each) 50-7085 53 ½" x 1" x .030 (each) 50-7085 53 ½" x 1" x .030 (each) 50-7087 53 ½" x 1" x .030 (each) 50-7087 53 ½" x 1" x .030 (each) 50-7087 53 ½" x 1" x .030 (each) 50-7035 53 10 pack 50-7006 54 14. Washer, flat .323" x ½8" x ½2" (each) 50-7036 53 10 pack 50-7001 54 11. Screw, PH slotted 10-24 x ¼" (each) 50-7007 53 10 pack 50-7001 54 11. Screw, PH slotted 10-24 x ¼" (each) 50-7001 54 11. Screw, PH slotted 10-24 x ¼" (each) 50-7001 54 12. Washer, flat, .281" x .625" x .080" 6194, 6245, 6703, 6736, 6228W, 6192 each 50-7001 53 20. Locknut - ¼" -28 (each) 50-5010 53 21. Hose, breather vent 17-0365 54	
10 pack	\$3.95
6. Cap screw, breather & air cleaner mount. 17-0338 59 7. Shim, 620" I.D. x. 800" O.D. x. 185" (each) N/A - 8. O-ring ½" O.D. x ¾" I.D. x ¼6" CS (each) 50-8270 33 5 pack. 50-8130 54 9. O-ring ¾" O.D. x ½" I.D. x ¼6" CS 11110 (each) 50-8006 53 10 pack. 50-8077 58 10. Breather fitting (each) 17-0350 55 2 pack. 17-0355 58 11. Shim kit air cleaner backplate (includes 4 each of .018", 030", .048") 17-0464 37 Replacement Shims ½" x 1" x .018 (each) 50-7085 53 ½" x 1" x .030 (each) 50-7086 53 ½" x 1" x .048 (each) 50-7087 53 ½" x 1" x .105 (each) 50-7089 53 ½" x 1" x .125 (each) 50-7090 55 12. Washer, friction, spring (each) 50-7035 53 10 pack. 50-7035 53 10 pack. 50-7035 53 10 pack. 50-7036 53 10 pack. 50-7037 53 10 pack. 50-7036 53 10 pack. 50-7001 53 11. Screw, Flat w/step, brass (each) 50-7007 53 10 pack. 50-7001 53 11. Screw, HH, cap, ¼"-28 x ½8" 50-0041 53 10 pack. 50-7001 53 11. Screw, HH, cap, ¼"-28 x ½8" 50-0074 50 12. Locknut - ¼" -28 (each) 50-5010 53 12. Hose, breather vent. 17-0365 54	
7. Shim, .620" I.D. x .800" O.D. x .185" (each)	
8. O-ring ½" 0.D. x 5%" I.D. x 1/6" CS (each) 50-8270 \$3	
5 pack 50-8130 \$4 9.	
9. O-ring %" O.D. x ½" I.D. x ¼6" CS 11110 (each) 50-8006 \$3 10 pack 50-8077 \$8 10. Breather fitting (each) 17-0355 \$5 2 pack 17-0355 \$8 11. Shim kit air cleaner backplate (includes 4 each of .018", .030", .048") 17-0464 \$7 Replacement Shims ½" x 1" x .018 (each) 50-7085 \$3 ½" x 1" x .030 (each) 50-7086 \$3 ½" x 1" x .048 (each) 50-7087 \$3 ½" x 1" x .105 (each) 50-7089 \$3 ½" x 1" x .125 (each) 50-7090 \$5 12. Washer, friction, spring (each) 50-7035 \$3 10 pack 50-7037 \$3 10 pack 50-7037 \$3 10 pack 50-7036 \$3 10 pack 50-7037 \$3 10 pack 50-7	
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11. Shim kit air cleaner backplate (includes 4 each of .018", .030", .048"). 17-0464 \$7 Replacement Shims ½" x 1" x .018 (each)	\$5.95
Replacement Shims 1/2" x 1" x .018 (each)	\$8.95
½" x 1" x .018 (each) 50-7085 53 ½" x 1" x .030 (each) 50-7086 53 ½" x 1" x .048 (each) 50-7087 53 ½" x 1" x .105 (each) 50-7089 53 ½" x 1" x .125 (each) 50-7090 55 12. Washer, friction, spring (each) 50-7035 53 10 pack 50-7058 57 13. Washer, flat .323" x 5%" x ½2" (each) 50-7037 53 10 pack 50-7061 54 14. Washer, flat, nylon .323" x 5%" x .020" (each) 50-7036 53 10 pack 50-7060 54 15. Lever, fast idle, 17-0327 59 16. Washer, flat w/step, brass (each) 50-7007± 53 10 pack 50-7010± 51 17. Screw, PH slotted 10-24 x ¼" (each) 50-7010± 51 18. Screw, HH, cap, ¼"-28 x ½" 50-0062 55 19. Washer, flat, .281" x .625" x .080" 6194, 6245, 6703, 6736, 6228W, 6192 each 50-7021 53 20. Locknut - ¼" -28 (each) 50-5010 53 21. Hose, breather vent 17-0365 54	\$18.95
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20. Locknut - ¼" -28 (each) 50-5010 \$3 21. Hose, breather vent. 17-0365 \$4	¢2 OF
21. Hose, breather vent	
•	
22. Fitting, hose, Buell air cleaner	
22. Fitting, hose, buen all cleaner 77-05300-3 38 23. Hose, breather 958, 217-0339 \$8	
24. Bracket, carb support, air cleaner	
25. Tubing, rubber - %" x %" x 3'	
26. Gasket,Backplate,1991-up xl/bt <i>29062-95B</i>	
, , , , , , , , , , , , , , , , , , ,	

All reference to HD® part numbers is for identification purposes only. We in no way are implying that any of S&S Cycle's products are original equipment parts or that they are equivalent to the corresponding HD® part number shown.



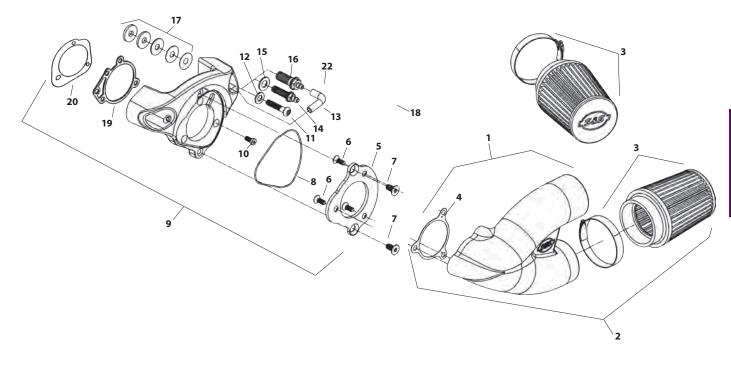


SINGLE BORE TUNED INDUCTION SYSTEM REPLACEMENT PARTS

1.	Tuned Intake Kit, 2.19" Single Bore	
	Natural	106-4968 \$192.95
	Gloss Black	170-0453 \$191.95
	Chrome Plated	106-4970± \$192.95
2.	Tuned Intake Assembly, 2.19" Single Bore	
	Gloss Black	170-0454 \$318.95
	Chrome Plated	
3.	Air Filter, w/clamp, Stainless Cap — Conical — 27/16" I.E	
٦.	Red (each)	
	Blue (each)	17-1023 \$59.95
4.	Gasket, Intake — Adapter Plate	17-1023 \$55.55
5.	Plate, Adapter, 2.19" Single Bore Tuned Intake	17-1022 40.23
٦.	Chrome Steel	17_101/1± \$79.95
6.	FHSC 1/4-20 x 5/8" (each)	17-1014 \$75.55 En 0422 \$4.95
7.		
	FHSC 5/16-18 x 5/8" (each)	30-0432 30.93
8.	O-Ring, Adapter Plate Bracket	FO 0446 \$40E
•	35%" O.D. x 3½" I.D. 1/16 CS, Viton (each)	50-0446 ३४.५०
9.	Bracket Kit, 2.19" Single Bore Tuned Intake, Chrome	404 40=+ ¢430 0F
	Super E/G, 1986-'03 xl	106-49/5* \$428.95
	Stock CV & EFI, 1991-up xl	106-6026 ± \$428.95
10.	Backplate Screw	
	Screw, SHC, w/Threadlock, ¼-20 x ½"	
	10 pack	106-2105 \$8. <i>95</i>
	Screw, 5/16 - 18 x 11/4, BHC, Chrome (each)	
12	Flat Washer 5/16" x 1/16" 6320, 70907-07, 6016, 6702	50-7034 <i>\$0.95</i>
13.	Hose, Breather, ¼" I.D., 90°	19-0178A <i>\$4.95</i>

14. Screw, Breather Fitting, 3% –16 x 11/4"	\$15.95
15. Washer, Flat, 3/8" x 13/16" x 1/16", Chrome	\$4.95
16. Screw, Breather Fitting, ½ -13 x 1.25	\$12.95
17. Shim Kit	
(a) 5/16" I.D. 1986-'90 xl	\$11.95
(b) ½" I.D. 1991-up xl	\$18.95
18. Enrichment Device, S&S Super E & G carbs	\$27.95
(Use in place of enrichment device on air cleaner backplate)	
19. Gasket, Backplate – E/G/SBEFI (<i>each</i>)	\$4.95
10 pack	\$27.95
20. Gasket, Stock carb/Throttle Body <i>29062-95B.</i>	\$4.95
21. Hardware Kit, 1986-'03 (N/S)	
Stock CV & EFI	\$69.95
S&S Super E or G carb	\$118.95
22. Cap,Canister Purge Fitting	\$6.95
23. Hose, Vent, Breather, Cut To Size, .313" x .438" x 24" (N/S) 106-4982	\$9.95

(N/S) = Not Shown



ACCESSORIES

Description		Part #	MSRP
Air Filter Oil, 8 oz. Bottle	Red	106-1163	\$31.95
	Blue	106-1164	\$31.95
N. J Air Filton Corre	each	106-0247	\$49.95
Nylon Air Filter Cover	2 pack	106-0248	\$98.95











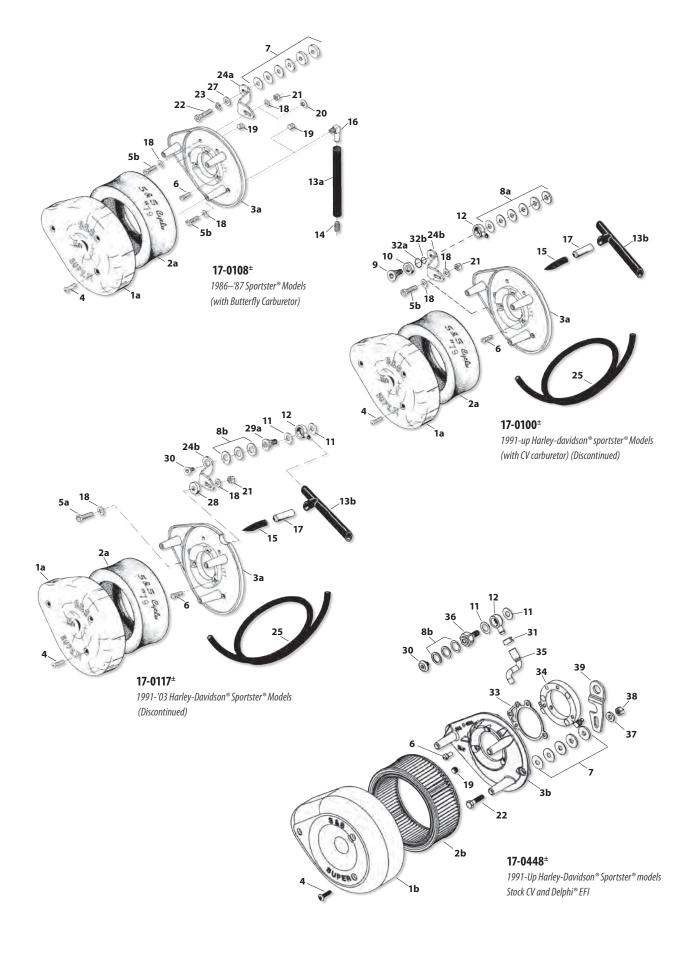
CLASSIC TEARDROP AIR CLEANER REPLACEMENT PARTS FOR STOCK FUEL SYSTEMS

1.	Air cleaner cover	
	1a. Chrome	17-0078 [±]
	1b. Chrome	17-0378±
	Black	170-0384A
	Slasher	
2.	Flement	
_,	2a. Foam	17-0079
	2b. Pleated	
3.	Backplate	100 4722
٥.	3a. xl 1966-'87	17_0190
	3b. Backplate, 1991–2007 xl	100-0930
4.	Cover screw	
	Chrome 1305 (each)	
	3 pack	
	10 pack	
	Black 902 (each)	
	3 pack	50-0310
5.	Screw	
	5a. 1999-03 xl, HHCS 1/4"-28 x 1-1/4"	N/A
	5b. All Others, HHCS ¼"-28 x %"	50-0074
6.	Backplate screw, Zinc Plated (each)	106-2084
	10 pack	
7.	Shim kit, xl 1966-'87	
	(Includes 2 each 5/6" x .018", 5/6" x .030", 5/6" x .048", 5/6" x .105" and 4 ea	
	Replacement shims	G1710 X.125)
	a. 5/16" x .018" (each)	50-7038
	b. 5/16" x .030" (each)	
	c. 5/6" x .048" (each)	
	d. 5/6" x .105" (each)	
	e. 5/6" x .125" (each)	
_	2 pack	50-/042P
8.	Replacement Shims	
	8a. 1991-up xl, & Buell® 1994-up	
	½" x .018 (each)	
	½" x .030" (each)	
	½" x .048" (each)	
	½" x .105" (each)	
	½" x .125" (each)	50-7090
	8b. 1999-03 xl	
	5/8" x .025"(each)	50-7113
	10 pack	50-7110
	5/8" x .050"(each)	
	10 pack	
	5%" x .075" (each)	
	10 pack	
9.	Breather Cap Screw	
10.	Shim, head vent62" I.D. x .80" O.D. x .175"(each)	N/A
	Breather screw seal xl 1991-'03 Washer, .520 (each)	
11.		
12	10 pack	
12.	Breather fitting (each)	
	2 pack	1/-0355
13.	Crankcase breather vent hose	
	a. xl 1986-'90	17-0113
	b. xl 1991-'93	
	Vent hose connector, xl 1986-'90	
15.	Vent hose, with angle cut	17-0365

	000 Ell Cut	
	90° Elbow fitting (each)	
17.	Hose fitting	
18.	Flatwasher, ¼" 6194, 6245, 6703, 6736, 6228W, 6192 (each)	
19.	Backplate plug, 1/8" -27 NPT (each)	
20	10 pack	
	Plug, press-in clear plastic	
21.	Support Sidence is climate 7. 20 % 76 (cuch) 111111111	
	Support bracket screw, 1/4"-18 x 11/4"	
	Lockwasher, 5/16"	50-/032
24.	Support Bracket	47.0044
	24a . Air Cleaner to head 1986–90 xl	
	24b. Air Cleaner to head 1991–03 xl	
25.	Rubber tubing – ¼" x 5%" x 3'	
	Wire tie (N/S)	
	Washer, flat – ¾" x 7%" x .146" (each)	
	Shim - 1/4" x 3/4" x .200"	50-7024
29.	Screw Vent Fitting	
	29a. xl 1993-99	
	29b. xl 1999-up	
	Screw air cleaner backplate	
	Spring clamps	50-8001
32.	O-ring	
	32a. (-014) .500"ID x .625" OD (<i>each</i>)	
	5 pack	
	32b. (-012) .375"ID x .500" OD <i>11110</i> (each)	
	10 pack	
33.	Gasket, backplate (each)	
	10 pack	
	Adaptor assembly, 1991-up xl	
35.	Hose, vent, breather, formed, .250" x .375" x 1.330", 199	
	each	
	Breather screw, 1991 xl	
37.	Washer, flat 5/6" x 11/6" x 1/8"	
38.	Nut, lock, HH, 5/6"-18	50-5021
39.	brached support an eleaner to meday my 1551 ap	48.45.
	Front	
N /=	Rear	. 106-1285
N/S	= Not Shown	

All reference to HD® part numbers is for identification purposes only. We in no way are implying that any of S&S Cycle's products are original equipment parts or that they are equivalent to the corresponding HD® part number shown.





SUPER E AND G AIR CLEANERS REPLACEMENT PARTS FOR 1986-UP HARLEY-DAVIDSON® SPORTSTER® MODELS

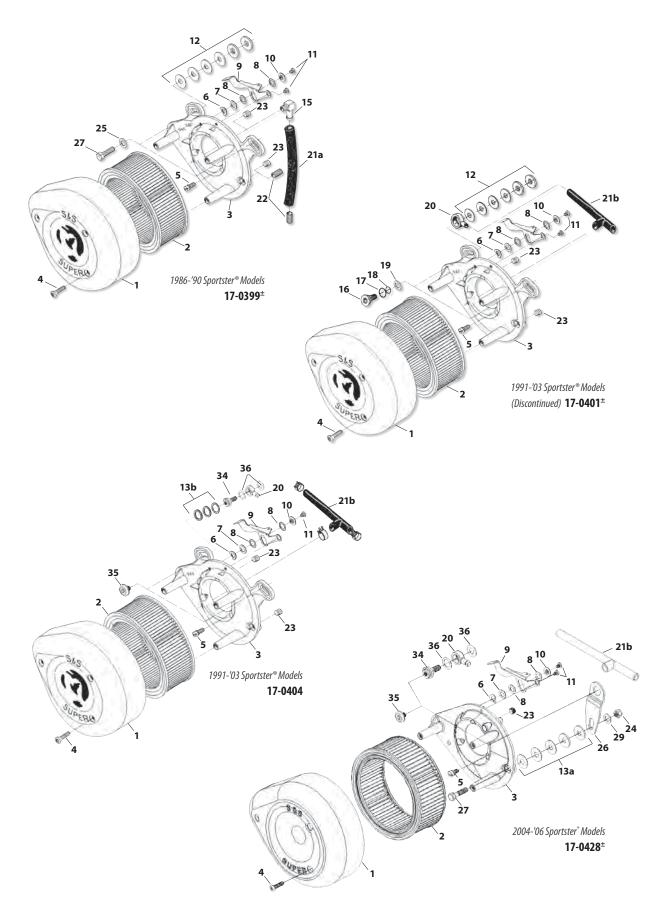
1.	Air cleaner cover	
	Chrome	\$162.95
	Black	\$162.95
	Slasher	\$162.95
2.	Element, pleated	\$24.95
	Element, pleated carbon	\$54.95
3.	Backplate	
	xl 1957-'85	\$107.95
	xl 1991-'03	\$107.95
	xl 1986-'90 <i>Manufactured prior to 1-1-03</i>	\$107.95
	xl 2004-'06	\$82.95
4.	Cover screw	4
	Chrome 1305 (each)	\$3.95
	3 pack	\$4.95
	10 pack	\$9.95
	Black 902 (each)	\$5.95 \$11.95
_	3 pack	\$11.95 \$3.95
5.	Backplate screw, Zinc Plated (each)	\$3.95 \$8.95
,	10 pack 106-2105 Fast idle friction washer (each) 50-7037	\$3.95
6.	10 pack	\$4.95
8.	Fast idle nylon washer (each) 50-7036	\$3.95
0.	10 pack	\$4.95
9.	Fast idle lever	\$10.95
	Fast idle brass washer (each). 50-7007±	\$3.95
10.	10 pack	\$13.95
11.	Fast idle lever screw (one required)	\$3.95
•••	10 pack	\$5.95
12.	Shim kit	
	xl 1986-'90	\$11.95
	(Includes two each 1/25") (Includes two each 1/25")	
	xl 1991-2016	\$18.95
	(Includes two each ½" x .018", .030", .048", .105", and four each .125")	
13.	Shims,	
	a. xl 1986-'90	
	5/16" x .018" (each)	\$3.95
	%6" X .030" (each)	\$3.95
	5/6" X .048" (each)	\$3.95
	5/6" x .105" (each)	\$3.95
	5/16" x . 125" (Use on BT 1936-'84 and xl 1957-'85 when insulator block is installed	
	each	\$3.95 \$5.95
	2 pack	\$5.95
	5. XI 1991-2010 5%" X .025" (<i>each</i>)	\$3.95
		\$3.95 \$8.95
	10 pack	\$3.95
	10 pack	\$9.95
	%" x .075" (each)	\$3.95
	10 pack	\$12.95
	Shim, .515" x 1" x .125" (each)	\$5.95
14.	Backplate mounting bolt — xl 1957-'85	,
• • • •	5/6"-18 x 1" 3987 (each)	\$3.95
	5/6"-24 x 3/4" (Discontinued)	, .
15.	Elbow fitting (each)	\$21.95
	Breather screw	
	Standard length	\$9.95
	•	

17.	Breather screw o-ring — 5/8" O.D. (each) 11140, 11273 50-8270	
	5 pack	\$4.95
18.	Breather screw o-ring — ½" O.D. 11110 each	
	10 pack	
	Breather screw washer	
20.	Breather fitting (each)	\$5.95
	2 pack	\$8.95
21.	Crankcase breather hose	
	a. xl 1978-'90	\$3.95
	b. xl 1991-'06	\$8.95
	Vent hose connector	\$3.95
23.	Backplate plug 1/8"-27 (each)	\$3.95
	10 pack	\$11.95
	$Locknut-5 \text{\it '}\text{\it '}\text{\it ''}-18 \textit{ (Use with support bracket-see #26)} \ldots 50\textbf{-}\textbf{50-5021}$	\$0.95
25.	Flatwasher — 5/16" x 1/16" 6320, 70907-07, 6016, 6702	
		\$0.95
26.	Support bracket	
	xl 1957-'85	\$21.95
	xl 2004-2016	\$14.95
		\$0.95
	Lockwasher — 5/8"	\$0.95
	Flatwasher — 5/16" x 1/8"	\$0.95
	Wire tie (N/S) 50-8003	
31.	Hose clamp (N/S)	\$3.95
32.	Air cleaner assembly (Includes: Chrome cover, backplate, filter element, and hardwar	e kit)
	xl 1957-'85 17-0400 *	
	xl 1986-'90 17-0399 ±	\$269.9
	xl 1991-'03 17-0404 ±	\$269.9
33.	Mounting hardware package (N/S) Includes all parts needed to install air cleaner	3:
	xl 1957-'85 17-0441 ±	\$19.95
	xl 1986-'90 17-0458 ±	\$49.95
34.	Screw vent fitting	
	a. BT 1993-'99	\$18.95
	b. BT 1999-up	\$21.95
35.	Screw, air cleaner to head	\$6.95
36.	Washer, silicone coated steel, xl 1991-'06, .520" (each) 50-7055	\$3.95
	10 pack	\$13.95
37.	Spring clamps (N/S)	\$0.95
	Breather conversion kit, xl 1%" carbs (N/S) 17-0487	\$56.95

(N/S) = Not Shown

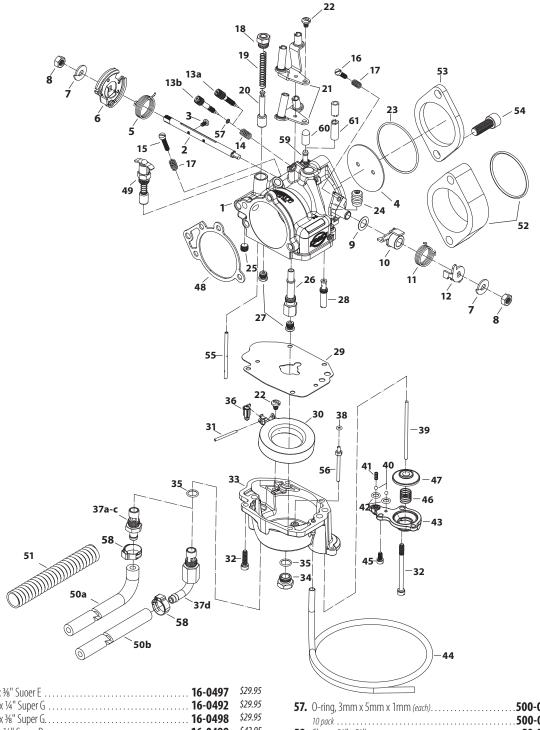
All reference to HD® part numbers is for identification purposes only. We in no way are implying that any of S&S Cycle's products are original equipment parts or that they are equivalent to the corresponding HD® part number shown.





SUPER E & G CARBURETOR REPLACEMENT PARTS

	<u> </u>					
1.	Carb body assembly			31.	Float pin (each)	\$3.95
	1%" Super E	^{(TSA} :11-2381±	\$256.95		5 Pack	± \$8.95
	21/16" Super G	11-2391±	\$268.95	32.	Bowl screw	
2	Throttle shaft				10-24 x ³ / ₄ " - Three required (each)	\$3.95
	1%" Super E — Includes two plate screws	11-2383	\$25.95		10 Pack	\$15.95
	21/16" Super G — Includes two plate screws	11 7/102	\$22.95		10-24 x 23/8" - One required (each). 50-004 (\$3.95
,	Zno super d — includes two plate sciews		¢3 05		10-24 x 278 - One required (edicit)	\$10.95
5.	Throttle plate screw 11-2045- (two required) (each)	50-0055-5	\$3.93 \$10.0E	22	10 Pack	,
_	10 pack	50-0064	\$10.95	33.	Carb bowl (only)	
4.	Throttle plate				IS _{1,2,3} 11-2388	± \$80.95
	1%" Super E				Carb bowl complete assembly	_
	21/16" Super G	11-2355	<i>\$17.95</i>			\$176.95
5.	Throttle return spring (each)		\$3.95	34.	Bowl plug (each)	\$4.95
	Throttle return spring (each)	USA:11-3502	\$8.95		5 pack	± \$13.95
6.	Throttle spool	USA:11-2385	\$18.95	35.	Seat o-ring*	
7	Throttle shaft lock washer (two required)	50-7031	\$3.95		(required with part #11-2465 only when replaces 360°style fuel inlet.)	
	Throttle shaft nut (two required) (each)				each	\$3.95
ο.	Tillottie Silait flut (two required) (edicil)	11 72/2	¢8 05		10 pack	\$14.95
^	5 pack	11-2303	\$0.7J \$2.0E	36	Needle	
9.	Throttle shaft nylon washer (each)		\$3.93	50.	1%" Super E & 21/6" Super G	
	10 pack	50-7072	\$8.95		178 Super La 276 Super a	± ¢140E
10.	Pump actuator lever		\$10.95		Design works 41 2107	\$14.95
11.	Actuator spring (each)	<u>.</u> 11-2375-S	\$3.95		Racing only	\$64.95
	5 pack	USA _{1,2,3} 11-3501	\$10.95	37.	Seat – Includes O-ring #35	
12.	Pump actuator arm	11-2377	\$4.95		(Replaces obsolete seats 11-2347 and 11-2348)	
	Idle mixture screw				a. 17%" E & 21/16" G (Uses part #11-2195± needle)	\$14.95
15.	a. Idle mixture screw, brass (<i>each</i>)	11_225/±	¢10.05		b. Racing only (Uses part #11–2197* needle)	1 -
	5 pack				c. Racing only -threaded fuel inlet (6AN .157" ID)	
	5 pack	11-23/0	\$42.95		(Uses part #11-2195± needle)	\$34.95
	b. Idle mixture screw only	440.000			d. Permeation Compliant fuel inlet seat Super F or G	
	each	110-0003	\$12.95		(Uses part #11-2195* needle)	\$26.95
	Idle mixture screw w/ 500-0036 o-ring)			38	Ejector nozzle o-ring (each) 50-801	\$3.95
	each	110-0068±	\$13.95	50.	10 Pack 50-8096	\$10.95
	5 pack	110-0069±	\$57.95	20	Dunna mushand () () 11 227	\$70.55
14.	ldle mixture screw spring (each)	11-2052	\$0.95	39.	Pump pushrod (each) 11-237: 5 Pack 13-239:	\$7.75 \$26.05
	10 Pack	😘 11-2060	\$8.95		5 Pack	\$ \$20.95
15.	Idle speed screw (each)	50-0038	\$3.95	40.	Check ball - (two required) (each)	\$3.95
	10 Pack	50-0150	\$9.95		10 pack	\$6.95
16	Pump adjustment screw (each)	50-0020	\$3.95	41.	(heck hall spring (each) 11-2374	1 \$3.95
10.	rump aujustment sciew (each)		\$6.95		5 Pack	\$10.95
47	10 Pack	50-0140	\$0.25 \$0.05	42.	Pump cap o-ring - (two required) (each)	\$3.95
1/.	ldle speed/pump adjuster spring (each)	11-2048	ζ0.22 ¢0.05		10 Pack	\$12.95
	10 pack	11-2053	\$6.95	43	Pump cap assembly	\$28.95
18.	Plunger nut (each)	11-2344 [±]	\$4.95		Overflow hose per 24" <i>27369-76</i>	, 420.25
	5 Pack	11-2372 [±]	\$14.95	44.	(each)	. ¢c.05
19.	Plunger spring (each)		\$3.95		(each)	\$6.95
	10 Pack	USA ₁₂₃ 11-2359	\$11.95		5 Pack	
20	Fast idle plunger	11-2343	\$14.95	45.	Pump cap screw 8–32 – (two required) (each)	\$3.95
21	Cable quide assembly with screw				10 Pack 50-0098	
۷1.	Use with butterfly style cables	11_2220D	\$28.95	46.	Diaphram spring (each)	\$3.95
	Use with an example six or described	11 22227	720.73 ¢ 70 ΩΕ		10 pack	\$ \$8.95
	Use with constant velocity style cables	11-2338P	\$20.73	47.	Diaphragm	
22.	Cable clamp/float pin screw (each)	50-0041	\$3.95	48	Gasket, backplate (each)	1 ¢4 95
	10 Pack	50-0062	\$5.95	40.	10 nach 106-233	t 37.22 2 \$27.05
23.	0-ring			40	10 pack	\$ \$27.93 ± ¢27.95
	17/8" Super E (each)	50-8016	\$3.95			\$27.95
	10 Pack			50.	Fuel line	
	21/16" Super G (each)	50-8015	\$3.95		a. Fuel line With 90° bend*19" (Use with part #11-2465)	
	10 pack	50-8093	\$11.95		USA _{1,2,3}	۱ -
24	Bellows seal (each)	11-2266	\$5.95		b. Permeation Compliant straight, 311" x .563" x 17.5"	
4₹.	5 Pack	11-2200 11 2270	\$19.95		(Use with part #106-2011, 90° seat)	\$9.95
) F	Powl yent plug (t)	II-22/9	\$3.95	51	Fuel line insulator—12". USA _{1,2,3} 19-017.	\$70.05
۷۵.	Bowl vent plug (each)	50-0105	¢7.05		Spacer, Kit, w/ 0-ring	■ ↓∠2.73
	10 pack			JZ.	1%" x 1"	f +11 05
	Main discharge tube	11-2085±	\$13.95			
	Main jet — See Chart on page 285				2½" x 1"	
	Intermediate Jets — See Chart on page 284				2¼" x 1"	
	Series #94 fits all Super 1%", 21/4" gas carbureto	rs.			e with 1" Spacer Block	\$142.95
		44 2204	¢4.05		Insulator Block, Manifold, w/ O-ring	
29.	Bowl gasket (each)	11-2386	J4.7J	JJ.	IIISUIdUI DIUCK,IMaIIIIUIU,W/ U-IIIIU	
29.	Bowl gasket (each)	11-2386 11-2387	\$78.95	<i>J</i> J.	178" x 1/4"Super E	\$29.95



	1%" x 3%" Suoer E	16-0497	\$29.95
	21/16" x 1/4" Super G		\$29.95
	21/46" x 3/8" Super G		\$29.95
	2¼" x ¼" Super D		\$42.95
54.	Screw		
	1" x 3%"-16 (each)	50-0161	\$0.95
	1½" x 3%"-16 (each)		\$3.95
	10 pack		\$11.95
	13/8" x 3/8"-16 (each)	50-0163	\$4.95
	5 pack		\$12.95
	2" x 3%" - 16 (each)	50-0164	\$4.95
	5 pack		\$15.95
	2004-'06 Top Carb to Manifold		
	1½" x ¾"-16	50-0354-S	\$0.95
	2004-'06 Low Carb to Manifold		,
	1½" x¾"-16	50-0351-S	\$4.95
55.	Tube, Fast Idle Pick-Up, Super E/G, .125" x 2.350", Brass .	0381F±	\$6.95

57. O-ring, 3mm x 5mm x 1mm (<i>each</i>)	\$3.95
10 pack	\$8.95
58. Clamp, %" - %"	
59. Hose, Fitting straight, .040"	
60. VOES Fitting Cap	
61. VOES/Oil Return Hose	

*360° banjo style fuel inlet fitting used on early S&S E&G carbs is no longer available. Replace with one of the inlet/seat fittings listed under #37 on this page. We highly recommend inlet/seat #106-2011.

±⚠WARNING: Cancer and Reproductive Harm

\$10.95

CARBURETOR REBUILD KITS SEE PAGE 285



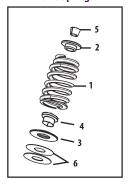
S&S Late Models 1999-up

VALVE SPRING REPLACEMENT PARTS

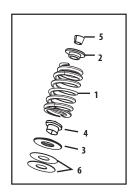
.650" Lift Sidewinder® Valve Springs (Stock, Super Stock® & CNC Ported Cylinder Heads)

1. 2. 3. 4.	SPRING, VALVE .650"	106-5690 <i>\$14.95</i>
	S&S CNC Ported Heads & Stock w/7mm valve stem S&S Super Stock Heads Stock w/% valve stem .420" Cast (each)562" Powder Metal (4 pack)	900-0338 \$3.95
5.6.	Keeper, valve spring S&S CNC Ported Heads & Stock w/7mm valve stem S&S Super Stock Heads & Stock w/5/6 valve stem	
	.015" (each)	

.650" Lift Sidewinder® Valve Springs



.585" Lift Valve Springs



.585" Lift Valve Springs (Stock, Super Stock® & CNC Ported Cylinder Heads)

1.	Spring, Valve .585"	900-0444	\$29.95
2.	Collar, Top		
3.	Collar, Bottom		
	For Stock Heads w/7mm valve stem (includes seal)	900-0590	\$8.95
	For CNC Ported Heads w/7mm valve stem		
	For Super Stock Heads		
4.	Seal, valve guide		,
	For Stock Heads w/7mm valve stem (includes bottom collar)	900-0590	\$8.95
	For CNC Ported Heads w/7mm valve stem		
	For Super Stock Heads & Stock w/5/6 valve stem		
	.420" Cast (each)	900-0338	\$3.95
	.562" Powdermetal (4 pack)		
5.	Keeper, valve spring		
	For Stock and CNC Ported Heads	106-5692	\$6.95
	For Super Stock Heads & Stock w/% valve stem	90-2094-S	\$4.95
6.	Valve spring shim		
	For Stock and CNC Ported Heads		
	.015"	500-0013	\$3.95
	.030"		
	For Super Stock Heads & Stock w/5/6 valve stem		
	.015"	90-2086	\$3.95
	.030"	90-2087	\$3.95

STREET® & STREET ROD™



GRAND NATIONAL® 4" SLIP-ON MUFFLER

FITMENT

• 2014—'20 Harley-Davidson® Street XG750, XG500, & Street Rod™

FEATURES AND BENEFITS

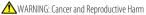
- 10% increase in HP & torque when coupled with S&S® Stealth Air Cleaner Kit
- Race inspired sound & stainless steel baffle
 Black ceramic finish matches stock header pipe
 SAE J2825 sound level compliant
- 50-state legal
- Removable dB reducer
 Made in USA!



GRAND NATIONAL 4" SLIP-ON MUFFLER FOR 2014-'20 HD® STREET® XG750, XG500 & STREET ROD™

Description	Part#
Black	550-0703

*Qualified Manufacturer Declared Emissions Replacement Part on all 2014-2020 Street Models





STEALTH AIR CLEANER KITS 2014–2019 STREET XG750 AND XG500

FITMENT

• 2014—2019 Street XG750 and XG500

FEATURES AND BENEFITS

- 6.7% more horsepower and 11.6% more torque (AC and Stock Muffler)
- Increased air flow 290 cfm vs. stock 110cfm
- Compatible with S&S Stealth air cleaner covers (except Airstream)



MINI TEARDROP STEALTH AIR CLEANER KITS KIT INCLUDES STEALTH AIR CLEANER KIT 170-0374B WHICH IS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-26 **Fitment Fuel System Finish** Part # Chrome 170-0445B± 2014-2019 Street XG750 and XG500 Stock Bore Gloss Black 170-0446B *WARNING: Cancer and Reproductive Harm STEALTH AIR CLEANER KIT FOR 2014-2018 STREET XG750 & XG500 EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-26 Part # Description Stealth Air Cleaner Kit for Street 170-0374B



STEALTH AIR CLEANER KITS 2017–'19 HARLEY-DAVIDSON® STREET ROD™ MODELS

FITMENT

• 2017—'19 Harley-Davidson® Street Rod™

FEATURES AND BENEFITS

- High-strength synthetic polymer backplate Designed to reduce heat transfer to intake air
 210% increase in flow

- Pair with one of many covers (cover not included; see next page for options)
 Cooler, denser air allows for more efficient cylinder fill and better performance
 Pre-filters are available

THE THE COURSE OF THE	13 EVEINIL I LKOINI EINII33	IUNS TAMPEKING KEG	ULATIONS UNDER CARB EO# D-355	1-26
Fitment	Fuel System	Finish	Part #	
2017 /10 Haylay Davidson® Chroat DadiM VC7F0A	Dual Bore	Chrome	170-0443B±	CARB
2017—'19 Harley-Davidson® Street Rod™ XG750A	Dual Bore	Gloss Black	170-0444B	CARB
**WARNING: Cancer and Reproductive Harm — www.P6	5Warnings.ca.gov			■ EO #D-355-2
STEALTH AC KIT FOR 2017—'19 HD® STREI	ET ROD™ EXEMPT FF	ROM EMISSIONS TAMF	ERING REGULATIONS UNDER CARB	EO# D-355-26
Description			Part #	
Stealth Air Cleaner Kit			170-0414B	



STEALTH AIR CLEANER KIT COVERS INCLUDING THE NEW STEALTH TRIBUTE









Teardrop

Carbon Fiber

Mini in Gloss Black







Tri-Spoke

Torker

Air 1









Airstream in Chrome

Airstream in Gloss Black

Muscle in Chrome

Muscle in Gloss Black

STEALTH COVERS

NEW FOR 2020 Tribute		Teardrop		Teardrop—Slasher		Carbon Fiber	Mini	Mini	
Chrome	Gloss Black	Chrome	Gloss Black	Chrome	Gloss Black	Black	Chrome	Gloss Black	
170-0592	170-0593	170-0530	170-0531	170-0532	170-0533	170-0501	170-0367	170-0366	

Tri-Spoke	Torker	Air 1	Airstream		Muscle	
Gloss Black w/Highlights	Gloss Black w/Highlights	Gloss Black w/Highlights	Chrome	Gloss Black	Chrome	Gloss Black with Highlighted Logo
170-0210	170-0206	170-0214	170-0118	170-0396	170-0121	170-0463

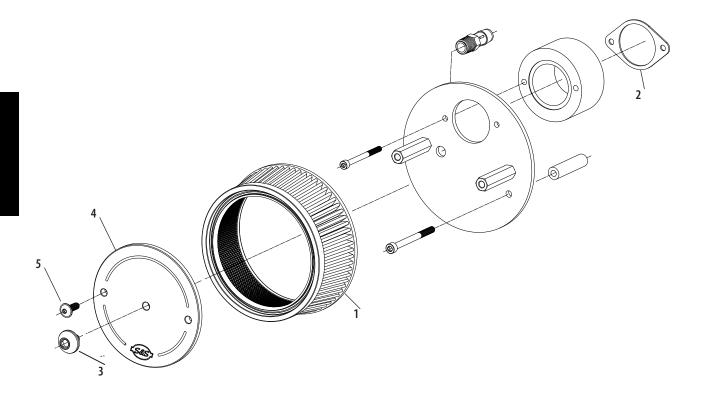
Displacement							
111	124	143					
170-0319	170-0321	170-0323					



314 S&S Late Models 1999-up

STEALTH AIR CLEANER KIT REPLACEMENT PARTS FOR STREET® MODELS

1.	Filter, Air, Tprd, StdPlt, 5.500" x 6.000"	. 170-0126
2.	Gasket,Intake,1.720"	.170-0371
3.	Screw,SHCB,5/16-18 x .500",Pol,Stnls Stl	. 170-0508
4.	Plate, Top, Air Filter, S&S® Logo, GIBIk	.170-0379
	Screw, SHC, Flng Btn, 1/4-20 UNC x .750" (2 Reg)	



STEALTH AIR CLEANER KIT REPLACEMENT PARTS FOR STREET ROD™ MODELS

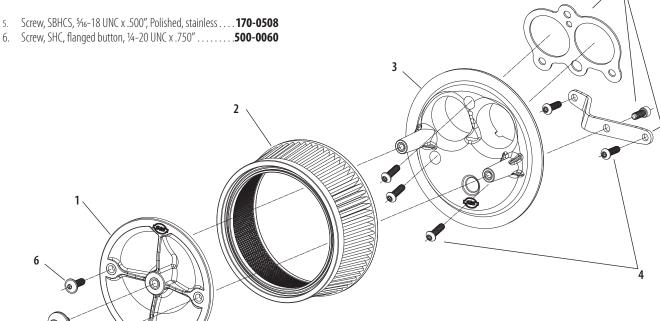
Backplate, air cleaner, dual bore, injection molded170-0415
 Hardware Kit, Stealth, 2017 Street Rod™........500-0690

Includes: Gasket, Intake, Dual Bore 2017 Street Rod™ Bracket, Backplate, PC, Blk, '17 Street Rod

Screw, SCH, 1/4-20 x 5/8", Zinc, Steel

Screw;BHC;M6 x 20mm;Zinc;ASTM F835M-1986 (QTY 5)

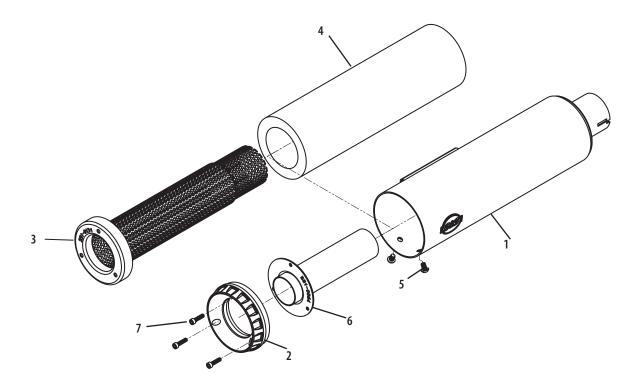
Sealant, Loctite®, #243, .5ml



316 S&S Late Models 1999-up

GRAND NATIONAL 4" MUFFLER REPLACEMENT PARTS

1.	Muffler, Body (shown for placement only)	N/A
2.	End cap,4"	551-0291
3.	Baffle Assembly, 2014–2017 HD® Street®	.551-0270
4.	Insulation, Muffler, Pillow Pack, 13" x 11.5"	551-0276
5.	Screw,BHC,High Temp Lock Patch,1/4-20 x 3/8",Stainless	Steel
	(2 Req)	.500-0441
6.	Baffle, asm, muffler, 4"	.551-0063
7.	SHCS,10-32 x .75" (3 Req)	500-0569



INDIAN® MODELS



NEW FOR 2020

GRAND NATIONAL® SLIP-ON MUFFLER FOR INDIAN® FTR 1200®

FEATURES AND BENEFITS

- Stainless steel can with exposed tig welds for factory race styling
- · Carbon fiber heat shield
- Race inspired Grand National endcap
- Removable dB reducer
- Meets J2825 sound levels (with dB reducer)
- Made in USA!





GRAND NATIONAL® SLIP-ON FOR 2019-2020 INDIAN® FTR 1200®

Stainless Steel 550-0854

*Qualified manufacturer declared U.S. 50-State legal emissions replacement part on all MY 2019-2020 FTR1200 models and the state of t



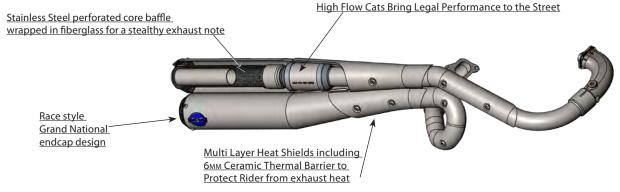
NEW FOR 2020 GRAND NATIONAL® 2:2 HIGH FOR INDIAN® FTR 1200®



FEATURES AND BENEFITS

- S&S domination of American Flat Track series championship now available for FTR 1200
- True race replica system has same 3.5" can and Grand National endcap design styling as mighty FTR 750 racers
- 50 State legal CARB EO# K-010-8
- Features S&S engineered high flow catalytic converters that bring legal performance to the street!
- Header and muffler heat shields protect rider from excessive heat
- Meets SAE J2825 sound standard
- Made in the USA!





GRAND NATIONAL® 2:2 HIGH FOR 2019 INDIAN® FTR 1200® — STREET LEGAL

Stainless Steel

550-0950A

Exempt from emissions tampering regulations under CARB EO# K-010-8 for all 2019 Indian FTR 1200 Models



STEALTHTWO AIR CLEANER KIT FOR INDIAN® SCOUT® BOBBER, AND VICTORY® OCTANE™

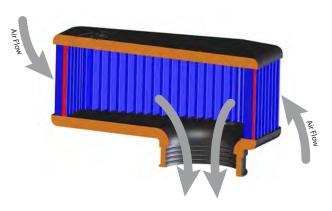
FITMENT

- 2015–2019 Indian Scout
- 2015-2019 Indian Scout Sixty

• 2015–2019 Indian Scout Bobber • 2017 Victory Octane

FEATURES AND BENEFITS

- · Bolt-on air cleaner assembly with high flow, washable filter media
- 127% increase in flow
- Simple one-piece construction
- Made in the USA
- Exempt from emissions tampering regulations under CARB EO# D-355-28



The S&S StealthTwo air cleaner features increased filter area and a radiused inlet. Together, they provide a smooth path for air to flow into the throttle body. Reduced turbulence! Increased flow! More power!

STEALTHTWO AIR CLEANER KIT

Fitment	Part #
2015–2019 Indian® Scout®, 2015–2019 Indian® Scout® Sixty, 2015–2019 Indian® Scout® Bobber & 2017 Victory® Octane™	170-0298D

Exempt from emissions tampering regulations under CARB EO# D-355-28





IR CLEANER KIT



FITMENT

• 2014—2019 Indian® Chieftain®, Classic, Vintage, & Roadmaster Models

FEATURES AND BENEFITS

- Increase of 5 hp when paired with performance mufflers and tuning
- High flow air filter provides:
 - 2x increase in surface area
 - 37% increase in airflow
 - High quality, washable cotton gauze filter
- Engineered to maintain leg clearance
- · Billet aluminum for greater durability
- Show quality chrome billet cover options available

AIR CLEANER KIT FOR INDIAN® MODELS

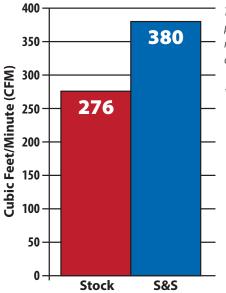
FITMENT	Part#
All 2014—2019 Indian Models originally equipped with TS111 Engines with S&S® Nostalgic Script Cover	170-0294D±
All 2014—2019 Indian Models originally equipped with TS111 Engines with S&S® Cycle Logo Cover	170-0295D±

Exempt from emissions tampering regulations under CARB EO# D-355-28

^{**}WARNING: Cancer and Reproductive Harm — www.P65Warnings.ca.gov



S&S High flow air filter provides 2x increase in surface area for a 37% increase in airflow.



The S&S Air Cleaner Kit provides 104 cfm* (37.7%) more air than the stock air cleaner.

*Tests conducted on a Super Flow 1020 flow bench at 28 inches of water test pressure.





170-0294D

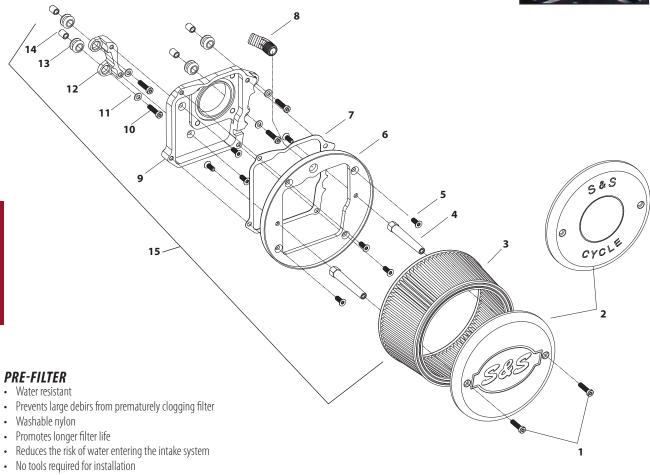
REPLACEMENT PARTS: SEE PAGE 322

AIR CLEANER KIT REPLACEMENT PARTS FOR INDIAN® MODELS

1.	Screw, SHC Low Profile, 25mm, M6 x 1, Chrome	N/A
2.	Cover, Air Cleaner	
	S&S Logo	170-0242 [±]
	S&S Nostaligic Script	170-0239±
3.	Filter, Air, Tapered, Standard Pleated Cotton	170-0228
4.	Standoff, Air Filter	170-0232
5.	Screw, SHC, Flat, 16mm, M6 x 1, Zinc	
6.	Backplate, Air Filter Element	
7.	Gasket, Backplate	
8.	Fitting, 45°, 3/8" NPT x 5/8" Barb, Zinc Plated	
9.	Backplate, Throttle Body	
10.	Screw, SHC Low Profile, 25mm, M6 x 1, Zinc	
	Washer, Flat, M6, Zinc	
	Bracket, Backplate	
	Grommet, Backplate, Rubber	
	Spacer, Zinc	
	Air Cleaner Kit	





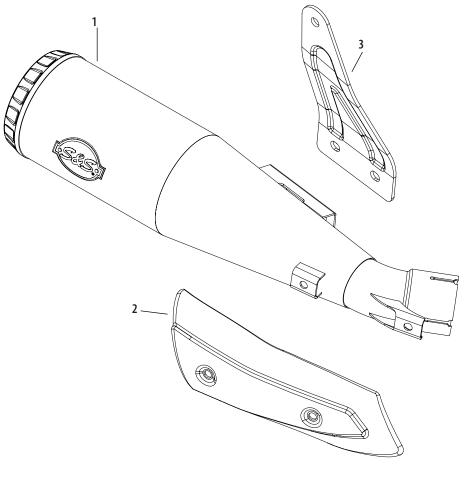


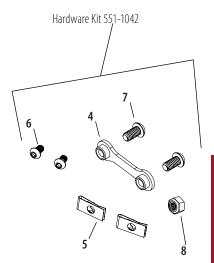
PRE-FILTER

170-0255

GRAND NATIONAL® SLIP-ON MUFFLER REPLACEMENT PARTS FOR INDIAN® FTR 1200®

1. Muffler	551-1040
2. Heat Shield	551-0982
3. Bracket	551-0987
Hardware Kit (includes 4-8 below)	551-1042
4. Plate, Nut, 5/16-18 x 2"", Chrome	551-0469
5. Nut, Clip-On, 1/4-20, Zinc Plated	500-0848
6. Screw, BHC, 1/4-20 x 5/16"", Stainless Steel	500-0846
7. Screw, BHC, High Temp Lock Patch,	
5/16-18 x 5/8"", Stainless Steel	500-1091
8. Nut, Lock, Nylon Insert,	
M8 x 1.25mm x 13mm x 8mm, Stainless Steel	500-1100



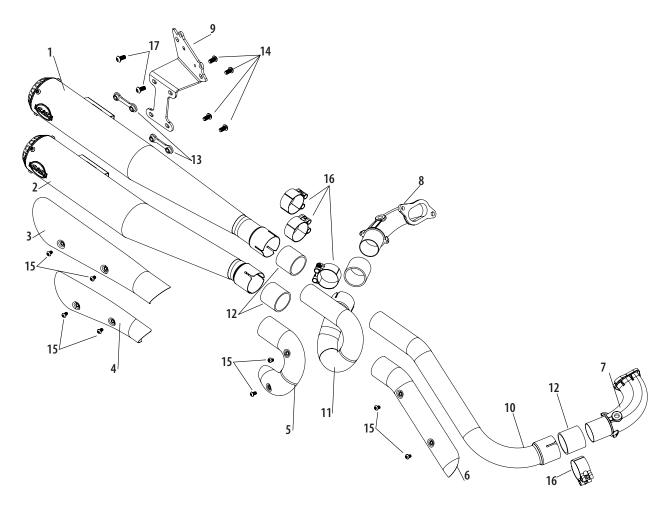


388 Late Models 1999-up

GRAND NATIONAL® 2:2 HIGH REPLACEMENT PARTS FOR INDIAN® FTR 1200®

Muffler Assembly, Top 551-1165A	1.
Muffler Assembly, Bottom 551-1166A	2.
Heat Shield, Top 551-1107	3.
Heat Shield, Bottom	4.
Heat Shield, Rear 551-1111	5.
Heat Shield, Front	6.
Adapter, Front	7.
Adapter, Rear	8.
Mounting Bracket 551-1114	9.
D. Header, Front 551-1119	10
I. Header, Rear 551-1122	11.
2. Gasket, Muffler 551-1129	12.
3. Plate, Nut, 5/16-18 x 2", Clear, Zinc 551-0469	13.

500-1091	14. Screw, BHC, High Temp Lock Patch, 5/16-18 x 5/8", Stainless Steel
500-1090	15. Screw, BHC, High Temp Lock Patch, M6 x 1 x 10mm, Stainless Steel
551-1181	16. Clamp, Band Style, 2.06" - 2.31"
500-1189	17. Screw, BHC, M8 x 16mm, Stainless Steel



TOOLS & SHOP SUPPLIES

	Anti-Rotation Bracket	332
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	Boring Plate Kits	329
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	Crankpin Nut Clearancing Gauges	332
POVEN	Cylinder Torque Plate Kits	330
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	Engine Stands	
3601	Flywheel Balancing Kits	326
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Chron Harris 100	W-50 High Ports rays The Company	
EU M VA		
20W-5 20	20V High Performance	
	A noth-fi	

FLYWHEEL BALANCING KITS

THE S&S® MASTER FLYWHEEL BALANCING KIT

THE S&S® MASTER FLYWHEEL BALAN	CING KII	
Description		Part #
Designed to allow the average shop to rebalance stock and S&S		
flywheels accurately and quickly. Whether doing a stock rebuild		
or a performance upgrade using aftermarket parts, flywheel		53-0027
rebalancing is a desirable step in the engine buildin		35 552
complete set of detailed instructions is furnished wi	th each kit. For	
flywheels with tapered crankpins only.		
Replacement Parts		N1 /A
1. Balance, Triple Beam Platform	1000)	N/A
2. Replacement balance weight set, (1-500g 2-		53-0021
3. Balance shaft, 1936—'71 OHV bt and 1957—'	/ I XI	53-0090
4. Balance shaft nut (each)		53-0092
5. Balance stand (each)		53-0088
6. Rod support stand (each)		53-0089
7. Taper adapter, 1972—Early '81 bt (each)		53-0086
8. Taper adapter, Late 1981—'85 bt and S&S BL, SE,		53-0087
9. Shaft adapter, 1977—up xl driveside (screws		53-0093
10. Shaft adapter, 1977—up xl camside (screws	on) (each)	53-0095
11.Shaft adapter, 1955–'99 bt driveside (screw	s on) (each)	53-0091
12. Shaft adapter, 1958–'92 bt camside (LH, scre	ws on) (each)	53-0101
13. Shaft adapter, 1993—'99 bt camside (RH, scre	ws on) (each)	53-0102
14. Shaft adapter, counterweight (each)		53-0099
15. Collar spacer, 1970—'99 bt (each)		53-0097
16. Collar spacer, 1986–'90 driveside for xl28	10" (each)	53-0098
17. Collar spacer. 1991—up driveside for xl86	0" (each)	53-0085
18. Bob weight assembly, 1000 gram (each)		53-0094
Repair parts for 53-0094		
Screw SHC, 1/2"-13 x 3/4"	Each	50-0200
Screw SHC, ½"-13 x 1¼"	Each	50-0201
19. Shims		
2.7 gram	Each	53-0110
5.4 gram	Each	53-0105
8.1 gram		53-0115
10.8 gram		53-0120
13.4 gram	Each	53-0125
50 gram		53-0150
100 gram <i>25566-06</i>		53-0100
20. Shim Kit Includes: Shims (2 each) 2.7, 5.4, 8.1, 10.8, and 13.4		53-0111
grams & Shims (1 each) 50 grams and 100	grams	



These balancing kits will not work with Harley-Davidson® Twin Cam 88° engines, 2000—up Sportster models, or any flywheel assemblies which use pressed-in crankpins.



S&S® FLYWHEEL BALANCE KITS

3α3 LLI MUEEL DALANCE VII3	
Master Balance Kit Without Balance Scale	
Includes all parts in #53-0027, except balance & platform scales	53-0028
Triple Beam Platform Balance Scale	
(2610 grams\maximum) without weights	53-0011
Flywheel Balance Kit For 5-Piece Cranks	
For 5-Piece Crank	53-0012
Includes:	
3.Balance shaft	53-0090
4. Balance shaft nut	53-0092
5. Balance stand	53-0088
6. Rod support stand	53-0089
7. Taper adapter	53-0086
8. Taper adapter	53-0087
18. Bob weight 1000 gram	53-0094
19.Shims (See previous page for individual part numbers)	
Flywheel Balance Kit For 3-Piece Cranks	
For Harley-Davidson® Evolution® and Sportster® Models 53-0015	
Includes:	
9. Driveside adapter sleeve for 1977—up Sportster	53-0093
10. Camside adapter sleeve for 1977—up Sportster	53-0095
11. Driveside adapter sleeve for 1955–'99 big twin	53-0091
12. Camside adapter for 1958—'92 big twin	53-0101
13. Camside adapter for 1993—'99 big twin	53-0102
14. Shaft counterweight	53-0099
15. Collar spacer for 1970—'99 big twin	53-0097
16. Collar spacer for 1986—'90 Sportster	53-0098
17. Collar spacer for 1991—up Sportster	53-0085
·	







FLYWHEEL ASSEMBLY FIXTURE & TRUING SPANNER

- Includes a massive fixture to hold the flywheels, flywheel clamps and hardware to mount the flywheel to the fixture, and a spanner bar plate to be used with a length of
 steel pipe to fabricate a long spanner bar for truing adjustments.
- Allows the assembler to torque the mainshaft and crankpin nuts to our higher than stock torque specs. (We recommend using a torque multiplier.) Once the flywheels are assembled, the spanner bar (some assembly required) can be used to shift the flywheels in order to bring the mainshafts into true. This method is much easier, faster, and safer than hitting the flywheels with a lead or brass hammer to true the assembly.
- Works for stock and S&S flywheels for 1936—'99 big twin and 1957—'03 Sportster® models.



FLYWHEEL ASSEMBLY FIXTURE

Description	Part #
Includes clamps, plate, and hardware	106-0552
REPLACEMENT PARTS	
Flywheel Fixture Clamp	106-0483
Spanner Bar Plate	106-0783
Hardware Kit, Flywheel Fixture (includes dowel pins, nuts and screws)	106-0782

BEARING PROTECTOR TOOLS FOR S&S® X-WEDGE® ENGINES

FEATURES AND BENEFITS

- Slips over the bearing surface of the X-Wedge crankshaft to prevent damage to the surface of the main bearing journal when mounting the crank on an S&S flywheel assembly fixture
- The flanged sleeve offers protection against scratches and dents
- It can also be used on the sprocket side of Victory® crankshafts
- Made of billet aluminum







Easy as 1-2-3! 106-2859 crankcase bearing protector installs in seconds, and not only protects the crankcase main bearing insert from the sharp surfaces on the sprocket shaft, but also quides the crankshaft into the bearing.





BEARING PROTECTOR TOOLS

Description	Part#
Crankshaft Main Bearing Protector	106-2858
Crankcase Main Bearing Insert Protector	106-2859

CAM ALIGNMENT TOOLS FOR X-WEDGE® ENGINES

• Three dowel pins are used to position each of the three cam belt pulleys with alignment holes in the cam plate



106-0750

CAM ALIGNMENT TOOLS

Chin All Grand Tools		
Description		Part #
Cam Alignment Dowels	3 pack	106-0576
Cam Belt Tensioner Socke	t	106-0750

MAIN BEARING INSTALLATION TOOL FOR X-WEDGE® ENGINES

- Consists of a bearing guide that holds the two plain bearing halves in position and a shouldered press tool that fits through the guide to press the new bearings into the crankcase
- The press tool is also used by itself to press old bearings out of the crankcase
- For cam and driveside bearings in X-Wedge engines
- A hydraulic or arbor press is required to install or remove bearings.

MAIN BEARING INSTALLATION TOOL FOR X-WEDGE® ENGINES

Main Bearing Installation Kit

106-0718



PRIMARY INNER BEARING RACE INSTALLATION TOOL

- Primary inner bearing race installation tool, with a roller thrust bearing that decreases the effort required to install a bearing race by 30%
- Attachment for the S&S Clutch Puller that allows easy removal of the primary inner bearing race
- All of these S&S tools are CNC machined from the finest 4140 tool steel and heat treated for maximum reliability and service life.



PRIMARY INNER BEARING RACE INSTALLATION TOOL

Inner Primary Bearing Race Installer	56-5145
illier rilliary bearing hace ilistalier	20-21 4 2

TOP DEAD CENTER TOOL

- Easy to find the exact top dead center of any engine
- The best way to calibrate your degree wheel when dialing in cams or performing any number of checks and modifications based on the position of the crankshaft
- Available for engines with 14mm or 12mm spark plug holes.









53-0045

Rocker covers must be removed when installing S&S compression releases. If lack of frame clearance prevents removal of rocker covers, engine must be removed from frame for compression release installation.

S&S® TOP DEAD CENTER TOOL

Description	Part #
14mm	53-0321
12mm	53-0322
S&S ROCKER COVER WRENCH SET	

Jaj nocken coven whench ser	
Helpful in areas where the motorcycle frame may prevent the use of conventional tools.	53-0040

CONNECTING ROD CHECKING PINS

These pins are used to check alignment of connecting rods and wristpin bushings with crankcase cylinder decks.

.927"	53-0004	
S&S COMPRESSION RELEASE SOCKET KIT		
Allows in-frame installation of S&S compres-		
sion releases and protects wiring from	53-0045	
damage during installation.		

MAIN JET TOOL

For changing main jets in all S&S carburetors	
using #72 series jets.	

53-0452

BORING PLATE KITS

- Designed to simplify and reduce the time required to prepare crankcases and cylinder heads for S&S® Sidewinder® big bore kit installations
- Machined cast iron with precision ground working surfaces

BORING PLATE KIT

FOR 1936-'99 BIG TWIN AND 1986-'03 SPORTSTER® MODELS

Description	Part #
Describtion	Part#

This boring plate kit has panhead and shovelhead head bolt patterns in one end. The other end is machined with the cylinder base patterns of 1936-'99 big twin engines, and 1986-'03 Harley-Davidson® Sportster models. Spacers are available for Evolution® engines which allow the cases to be bored without removing the cylinder studs (see below). Spacers are not included in this kit.

Kit	53-0006
Boring plate (1)	N/A
Screw, 7/16" -20 x 11/4" Sockethead Cap	50-0172

SPACERS FOR EVOLUTION CRANKCASES

Spacer part #53-0007 is required for 1986-'03 Sportster models. Spacers part #53-0007 and #53-0008 are both required for 1984—'99 big twin engines.

311/16" tall	53-0007
⅓" tall	53-0008

BORING PLATE KIT

FOR CRANKCASES & CYLINDERS FOR TWIN CAM 88° ENGINES

This boring plate kit is designed for boring stock crankcases of Harley-Davidson® Twin Cam 88° engines to accept S&S Super Sidewinder° 4" and 41/8" bore cylinders with stock cylinder stud pattern. A spacer is included with the kit which allows the cases to be bored without removing the cylinder studs.

Kit	53-0035
Boring plate	53-0036
Spacer, 3¾" tall	53-0037



53-0006



53-0007



53-0008



CYLINDER TORQUE PLATE KITS

FITMENT

- S&S 41/8" bore
- 4" bore 1999-up big twin
- 3%" 1984-'99 big twin
- Harley-Davidson® Sportster® models in 3%" and 4" bore
- S&S X-Wedge® 41/8" bore and 41/4" bore*

FEATURES AND BENEFITS

S&S torque plates can be used in conjunction with an S&S boring fixture and a
conventional boring bar, and they can be readily adapted to a Sunnen® type
honing machine.

KIT CONTENTS

- · Head end plate
- Base end plate
- Four long grade 8 socket head cap screws (holds the assembly together and supplies the pressure)
- Stop arm (keeps the cylinder and plates from turning while honing)

*These torque plates are required to bore or hone X-Wedge cylinders. They have the X-Wedge five bolt pattern and are available for 4½" bore and 4½" bore cylinders.

CYLINDER TORQUE PLATE REPLACEMENT PARTS

(See chart for specific part numbers.)

- 1. Base end torque plate
- 2. Head end torque plate
- **3.** Stop arm
- 4. Torque bolts
- 5. Vise tab
- **6.** Tab bolt



S&S® CYL	S&S® CYLINDER TORQUE PLATE KITS AND REPLACEMENT PARTS									
Bore Size	Case Bolt Pattern	Kit Part #	Head End Plate	Base End Plate	Stop Arm	Bolt 3/8"-24 x 6"	Bolt %6"-20 x 6"	Bolt %6"-20 x 7"	Vise Tab	Tab Bolt 5/16"-18 x 1"
41⁄8" - 41⁄4"	S&S® X-Wedge®	_	106-0837	106-0835	53-0014	106-0840	_	_	53-0034	50-0108
4 ³ / ₈ " -4 ⁷ / ₁₆ "	S&S 4¾" Pattern	53-0055	53-0056	53-0057	53-0014	_	-	50-0192	53-0034	50-0108
41/8"	Stock 1999-up big twin	53-0054	106-3190	106-3191	53-0014	_	_	50-0192	53-0034	50-0108
41/8"	S&S 41/8" Pattern	53-0051	53-0052	53-0053	53-0014	_	50-0191	_	53-0034	50-0108
3.927"-4"	Stock 1999-up big twin	_	53-0049	53-0050	53-0014	_	_	50-0192	53-0034	50-0108
4"	S&S 4" Pattern	53-0030	_	53-0032	53-0014	_	50-0191	50-0192	53-0034	50-0108
35/8"	1984-'99 big twin	53-0016	53-0017	53-0018	53-0014	_	_	50-0192	53-0034	50-0108
35/8"	1984-'03 Sportster®	53-0016	53-0017	53-0018	53-0014	_	_	50-0192	53-0034	50-0108

S&S Cylinder torque plate kits are intended for aluminum cylinders including 1984-'99 Harley-Davidson® Evolution® big twin engines, 1986-'03 Sportster models, and 1999-up Twin Cam 88® engines.

S&S® CYLINDER TORQUE PLATE KITS

Bore Size	Case Bolt Pattern	Part #
43/8" -47/16"	S&S 4¾" Pattern	53-0055
41/8"	Stock 1999—up big twin	53-0054
41/8"	S&S 41/8" Pattern	53-0051
4"	S&S 4" Pattern	53-0030
35/8"	1984–'99 big twin	53-0016
3%"	1984–'03 Sportster®	53-0016

S&S Cylinder torque plate kits are intended for aluminum cylinders including 1984–'99 Harley-Davidson® Evolution® biq twin engines, 1986–'03 Sportster models, and 1999–up biq twin engines.

HEAD END PLATE

Bore Size	Case Bolt Pattern	Part#
41/4"	S&S® X-Wedge®	106-0837
43/8"	S&S 4¾" Pattern	53-0056
41/8"	Stock 1999-up big twin	106-3190
41/8"	S&S 4%" Pattern	53-0052
4"	Stock 1999-up big twin	53-0049
35%"	1984-'99 big twin	53-0017
35%"	1984-'03 Sportster®	53-0017

BOLT 7/16"-20 X 6"

Bore Size	Case Bolt Pattern		Part #
41/8"	S&S® 41%" Pattern	Each	50-0191
478		4 pack	50-0191P
4"	S&S 4" Pattern	Each	50-0191
		4 pack	50-0191P

BOLT 7/16"-20 X 7"

	Bore Size	Size Case Bolt Pattern		Part #
	43/8"	COC 42/II D	Each	50-0192
		S&S 4¾" Pattern	4 pack	50-0192P
	41/ "	Charle 1000 um him turin	Each	50-0192
	41/8"	Stock 1999—up big twin	4 pack	50-0192P
	4"	Stock 1999-up big twin	Each	50-0192
	4		4 pack	50-0192P
	4"	S&S 4" Pattern	Each	50-0192
			4 pack	50-0192P
	35%"	1984–'99 big twin	Each	50-0192
	3%		4 pack	50-0192P
•	25/11	1984–'03 Sportster®	Each	50-0192
	3%"		4 pack	50-0192P

VISE TAB

Bore Size	Case Bolt Pattern	Part #
All	All	53-0034

IAB BULI 3/16"-18 X I"				
Bore	Case Bolt Pattern		Part #	
All	All 3987	Each	50-0108	

BASE END PLATE

Bore Size	Case Bolt Pattern	Part #
41/4"	S&S® X-Wedge®	106-0835
43/8"	S&S 4¾" Pattern	53-0057
41/8"	Stock 1999—up big twin	106-3191
41/8"	S&S 41⁄8" Pattern	53-0053
4"	Stock 1999-up big twin	53-0050
4"	S&S 4" Pattern	53-0032
35/8"	1984-'99 big twin	53-0018
35/8"	1984-'03 Sportster®	53-0018

STOP ARM

Bore Size	Case Bolt Pattern	Part #
All	All	53-0014

BOLT 3/8"-24 X 6"

Bore Size	Bore Size	Part #
41/4"	S&S® X-Wedge®	106-0840

DEGREE WHEEL KIT

- Multipurpose S&S® degree wheel can be used to do ignition timing, crankcase breather timing, cam degreeing, or you name it
- Designed to fit the sprocket shaft of any big twin or Harley-Davidson® Sportster® model simply by using the correct adapter provided
- Each kit also comes with a pointer which is held in place with the center crankcase bolt



S&S DEGREE WHEEL KIT

Description	Part #
Kit	53-0020
Adapter for Sportster® models (1 Each)	53-0023
Adapter for big twin (1 Each)	53-0024
Pointer (1 Each)	53-0025
Degree wheel and main adapter assembly (1 Each)	53-0026

CRANKPIN NUT CLEARANCING GAUGES

- Designed to simplify and eliminate clearancing problems that may arise when installing stroker flywheels in stock big twin crankcases
- By painting the bosses to be clearanced and then placing the appropriate gauge on the main bearing race, the crankcases can be marked with a scribe in the proper hole for the stroke and style connecting rod crankpin nuts to be used—quickly and precisely.



S&S® CRANKPIN NUT CLEARANCING GAUGES

Description	Part #
1958–'99 Big Twin Gauge	53-0005

ANTI-ROTATION BRACKET

This handy bracket slides over the sprocket shaft splines of big twin engines and bolts to one of the primary bolt holes of the crankcase to keep the crank from rotating. It's like an extra set of hands while installing pistons and cylinders.



3		
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•	"	_u	×	•	•

Fitment	Part #	
1970–2006 Big Twin (except '06 Dyna®)	50-9870	
2007—up Big Twin, 2006 Dyna®	530-0018	

RANKCASE OIL PASSAGE DRILLING JIG

DRILL JIG IS USED TO DRILL...

- Primary chain oil supply passage from the breather valve gear cavity to the back side of the oil pump body on late generator and early alternator crankcases.
- Pressure relief passage from behind the main oil pressure valve to the gear cavity on alternator crankcases.
- Crankshaft and main bearings supply passage on generator crankcases.
- Crankshaft and main bearings supply passage on early alternator crankcases.



S&S CRANKCASE OIL PASSAGE DRILLING JIG

Description	Part #
The S&S crankcase oil passage drilling jig is used to perform crankcase drilling modifications when installing an S&S oil pump assembly on early big twin crankcases. Made of hardened steel for durability, this fixture enables the builder to do four modifications.	53-0013

TAPPET BLOCK ALIGNMENT

• Aligns tappet block so the tappet rollers run straight on the cam lobe to prevent camshaft wear



S&S® TAPPET BLOCK ALIGNMENT TOOL

Description	Part #
Tool, Tappet Guide, Alignment	530-0014

S&S® OIL

FEATURES AND BENEFITS

- Ultimate protection
- Superior lubrication for reduced engine wear and lower oil temperatures
- Provides consistent viscosity, and resists thermal breakdown and oxidation at elevated temperatures
- Includes a oil drain plug oring for convenience

S&S® OIL CHANGE KIT

Description	Part#
Harley-Davidson® big twin & Sportster® Models with Evolution® engines (using OEM filter #63796-77A,63806-83, 63805-80A) 4 quarts of SAE 20W-50 Synthetic Engine Oil with chrome oil filter	3601-0412
Harley-Davidson® Twin Cam 88®/96™/103™/110™ engines (using OEM filter #63798-99, 63731-99A) 4 quarts of SAE 20W-50 Synthetic Engine Oil with chrome oil filter	3601-0413
2017-2019 Harley-Davidson® Models with Milwaukee-Eight® engine 5 quarts of SAE 20W-50 Synthetic Engine Oil with chrome oil filter	3601-0492



S&S® OIL

Description	Part #	
20W50 Synthetic, 1 quart	3601-0407	
20W50 Synthetic, 2.5 Gallon	3601-0408	
Primary, Synthetic, 1 quart	3603-0044	
80W140 Gear, Synthetic, 1 quart	3604-0007	
Chain/Gear, Synthetic, 1 quart	3604-0008	

OIL FILTERS

FEATURES AND BENEFITS

- Captures smaller particles than stock filters
- · Low restriction to oil flow
- Direct bypass —bypass oil does not pass over dirty filter media
- Smaller diameter for easier installation
- Black or chrome finish

S&S® OIL FILTERS

Year Application		QTY	Chrome	Black
4004 100 F. L. C. @ 4006 147 VI 14004 103 D. II.@		each	31-4102A	31-4101A
1984–'99 Evolution®, 1986–'17 XL and 1991–'02 Buell®	30μ	12 pack	310-0240	310-0239
1000 147*T.::	10μ	each	31-4104A	31-4103A
1999–'17*Twin Cam 88°/96™/103™ and all X-Wedge°		12 pack	310-0242	310-0241

^{*}Contains an anti-drain back valve

CHAMPION® SPARK PLUGS



55-1322

CHAMPION® SPARK PLUGS					
Application	Size	QTY	Part #		
Twin Cam 88®/96™/103™, Sportster®,	12mm Long Reach Champion® #RA8HC	each	55-1320 32317-86A, 32362-04		
X-Wedge® & S&S 41/8" bore engines		2 pack	55-1322 32317-86A, 32362-04		
Evolution®, Vintage Models (SH-Series, Iron XL, KN-Series, P-Series)	14mm Long Reach Champion® #RN12YC	each	55-1321 32342-04, 32311-83		
& S&S 3%" & 4" bore engines		2 pack	55-1323 32342-04, 32311-83		



JETS & CARB REBUILD KITS FOR S&S SUPER E & G CARBURETORS

For those who need to rejet their carburetor because of engine modifications, exhaust modifications, or changes in altitude, we have extra jet kits available which are designed to cover most jetting situations.

DEALER JET KITS[±]

Description	Part #
S&S Carb Parts Kit (Contains needed parts to maintain S&S Super E and G carburetors)	11-3103
S&S Jet Kit (Includes 3 each of all intermediate jets and 5 each of all main jets, plus a main jet tool)	11-3102



*WARNING: Cancer and Reproductive Harm — www.P65Warnings.ca.gov

JET PACKS[±]

.082", .084").

Description	Part #	
Low Range Jet Pack — For jetting most stock and r	noderate performance engines.	
Includes one each intermediate jets (.025", .0265", .028", .0295") one each main jets (.062", .064", .066", .068", .070", .072", .074").		
High Range Jet Pack — For jetting some stock and all performance engines.		
Includes one each intermediate jets (.0295", .031", .032", .033") and one each main jets (.072", .074", .076", .078", .080", .082", .084").	11-7271	
Master Jet Pack — For jetting all Super B, E, and G equipped engines.		
Includes one each intermediate jets (.025", .026", .028", .0295", .031", .032", .033") and one each main jets (.065", .064", .066", .068", .077", .077", .077", .078", .07	11-7272	

^{*}WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

.064", .066", .068", .070", .072", .074", .076", .078", .080",

INTERMEDIATE JETS - SERIES #94 INDIVIDUAL SELECTION*

Size	QTY	Part #	Size	QTY	Part #
025	each	11-0250	.032	each	11-0320
.025	3 pack	11-7107		3 pack	11-7112
.0265	each	11-0265	022	each	11-0330
.0205	3 pack	11-7108	.033	3 pack	11-7113
.028	each	11-0280	.036	each	11-0360
.020	3 pack	11-7109		3 pack	11-7114
.0295	each	11-0295	.040	each	11-0400
.0295	3 pack	11-7110		3 pack	11-7115
.031	each	11-0310	Blank	each	11-0000
.031	3 pack	11-7111			

^{**}WARNING: Cancer and Reproductive Harm — www.P65Warnings.ca.gov

Early Series #94 gas jets were stamped with single digit numbers. Conversions for these numbers are:

umpers are:	
1025"	4
2028"	5
3031"	6040"











106-3517±



No returns or exchanges on jets.

MAIN IFTS - SERIES #72 INDIVIDIAL SIZE SELECTION

MAIN	MAIN JETS - SERIES #72 INDIVIDUAL SIZE SELECTION [±]						
Size	QTY	Part #	Size	QTY	Part #		
040	each		000	each	11-4080		
.040	5 pack	11-7220	.080	5 pack	11-7240		
042	each	11-4042	002	each	11-4082		
.042	5 pack	11-7221	.082	5 pack	11-7241		
.044	each	11-4044	.084	each	11-4084		
.044	5 pack	11-7222	.004	5 pack	11-7242		
046	each	11-4046	.086	each	11-4086		
.046	5 pack	11-7223	.000	5 pack	11-7243		
0.49	each	11-4048	.088	each	11-4088		
.048	5 pack	11-7224	.000	5 pack	11-7244		
.050	each	11-4050	.090	each	11-4090		
.030	5 pack	11-7225	.090	5 pack	11-7245		
.052	each	11-4052	.092	each	11-4092		
.032	5 pack	11-7226	.092	5 pack	11-7246		
054	each	11-4054	.094	each	11-4094		
.054	5 pack	11-7227	.094	5 pack	11-7247		
.056	each	11-4056	.096	each	11-4096		
.050	5 pack	11-7228	.090	5 pack	11-7248		
.058	each	11-4058	.098	each	11-4098		
.036	5 pack	11-7229	.090	5 pack	11-7249		
.060	each	11-4060	.100	each	11-4100		
.000	5 pack	11-7230	.100	5 pack	11-7250		
.062	each	11-4062	.102	each	11-4102		
.002	5 pack	11-7231	.102	5 pack	11-7251		
.064	each	11-4064	.104	each	11-4104		
.00-	5 pack	11-7232	.104	5 pack	11-7252		
.066	each	11-4066	.106	each	11-4106		
.000	5 pack	11-7233	.100	Cucii			
.068	each	11-4068	.110	each	11-4110		
.000	5 pack	11-7234		5 pack	11-7255		
.070	each	11-4070	.115	each	11-4115		
	5 pack	11-7235		5 pack	11-7256		
.072	each	11-4072 .120 each	11-4120				
.072	5 pack	11-7236	.120	5 pack	11-7257		
.074	each	11-4074					
.07 T	5 pack	11-7237					
.076	each	11-4076	± W	± WARNING: Cancer and Reproductive			
.070	5 pack	11-7238			arnings.ca.gov		
.078	each	11-4078					
.070	5 pack	11-7239					

MAIN JET AIR BLEED KIT[±] (One Jet Each Size)

Sizes	Part #
.042"060"	106-3517
.084"120"	106-3518

^{± ★} WARNING: Cancer and Reproductive Harm — www.P65Warnings.ca.gov



S&S® CARBURETOR REBUILD KITS

To insure that you continue to get the utmost in performance from your S&S carburetor, we have put together a series of rebuild kits that are designed to provide the proper parts to return a worn carburetor to top shape. We have assembled different types of kits to cover the different degrees of rebuild necessary.

MASTER REBUILD KITS

Master rebuild kits contain a body rebuild kit, accelerator pump rebuild kit (Super E and G only), all new fasteners, springs, idle mixture screw, seat, and needle assembly. Everything needed to completely rebuild one carburetor.

MASTER REBUILD KIT[±]

Description	Part#
Super E	11-2923
Super G	11-2924

^{*}WARNING: Cancer and Reproductive Harm — www.P65Warnings.ca.gov

BODY REBUILD KITS

Body rebuild kits for Super E and G carbs also contain throttle shaft nuts, nylon washers, accelerator pump o-ring, and accelerator pump boot. Body rebuild kits for Super E and G carbs do not contain throttle shaft bushings since these carbs have stainless steel throttle shaft bushings already installed.

BODY REBUILD KIT[±]

Description	Part #
Super E	11-2906
Super G	11-2907



**WARNING: Cancer and Reproductive Harm — www.P65Warnings.ca.gov

BASIC REBUILD KIT

A gasket and seal kit for low mileage Super E & G carbs. Perfect to reassemble carbs taken apart for inspection and cleaning.

RASIC RERIIII D KIT±

DASIC REDUIED RIT			
	Description	Part #	PCP
	Super E & G	110-0067	0 100

^{**}WARNING: Cancer and Reproductive Harm — www.P65Warnings.ca.gov

ACCELERATOR PUMP REBUILD KITS

Accelerator pump rebuild kits contain diaphragm, diaphragm spring, check balls, check ball spring, pump pushrod, and required hardware and o-rings.

ACCELERATOR PUMP REBUILD KIT

Description	Part #
Super E & G	11-2918



FUEL LINE KIT

Fuel Line Kit for Super E and G Carburetors p/n 190-0005 $^\pm$

FUEL LINE KIT

Description	Part #
Fuel Line, Kit, Carb, Super E/G, Swivel Retrofit	190-0005 [±]
Fuel Line,.311" x .563" x 17.5",SAE 30R14 (replacement fuel line only)	190-0001

^{**}WARNING: Cancer and Reproductive Harm — www.P65Warnings.ca.gov

TOUCH UP PAINT, LUBRICANT AND SEALANTS



106-3023









500-0143

TOUCH UP PAINT

Description	Part #	
S&S touch up paint is included with each powdercoated S&S engine, but it's handy to have a spare! one in the shop and one in your saddle bag. Sold in $\frac{1}{2}$ oz. bottles with applicator cap.		
Wrinkle Black ½ oz, matte finish (used after April 2009)* 510-0053		
Silver ½ oz	106-3023	
Stone Gray ½ oz 510-0350		
*NOTE: Wrinkle Black (51–9001) has a slightly glossy finish. Wrinkle Black (510–0053) has a matte finish with no gloss.		
LURDICANT AND SEALANTS		

LUBRICANT AND SEALANTS

Use what the pros use! S&S assembles a lot of engines and customers often ask what sealants and lubricants we use. We recommend and use the following:

Torco®	Fnaine	Assemb	olv Luhe

lorco® Engine Assembly Lube	
Protect engine components during assembly	and initial start up!
4 oz. Bottle	51-9000
1 oz. Tube	51-9002
Gasgacinch® Gasket Sealer	
4 oz. (118ml) Can	51-9009
ThreeBond® Liquid Gasket 1194	
Great for sealing crankcases! 3.5 oz. (100g) Tube	500-0143

ENGINE STANDS

- An economical way to hold an engine on the work bench, for shipping, or for display
- Constructed of heavy gauge stamped steel with "S&S" laser cut in both ends
- Bullet proof, blue powder coat finish gives the stands a professional appearance that is suitable for display and protects them from corrosion and minor abrasions



S&S® ENGINE STANDS

Application	Part#
S&S X-Wedge® Engines	53-0147
1936—'99 Big Twin Engines	53-0141
1999—Up Unbalanced Big Twin Engines	53-0143
1999—'06 Balanced Big Twin Engines	53-0145

DEALER SERVICE KIT FOR STREET LEGAL EXHAUST



DEALER SERVICE KIT 510-0684

(Includes S&S proprietary tamper-proof bit (available only to dealers) and spare fasteners. Provides everything necessary to perform any required service or end cap replacement.)

APPENDIX & INDEX

Appendix Identification of flywheels Ordering S&S Manifolds Year codes Custom head bolt length Index	347 348 349

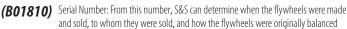
IDENTIFICATION OF FLYWHEELS

S&S® flywheels are manufactured in sets only We do not sell individual right or left flywheels, nor do we recommend mixing flywheels This is because the manufacturing techniques and/or tooling changes periodically

To prevent mixing flywheels, as well as to identify each set, the right and left flywheels are stamped with identical serial numbers (see picture).

Serial Number Identification Information

Serial Number ID, B01810-3SLX, deciphered as follows:



- (3) Stroke Code: Determines the stroke of the flywheels In this case the stroke is 4¾"
- **(SL)** Year Code: The year of the engine the flywheels were machined to fit and that the flywheels were machined to accept an S&S design sprocket shaft
- (X) Diameter Code: Diameter of the flywheels In this case the diameter is 81/4"

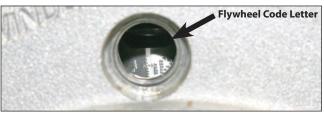


S&S® FLY\	S&S® FLYWHEEL IDENTIFICATION CODES FOR 1936—UP BIG TWIN							
Stroke Code	Stroke	Year Code	Engine Year	Sprocket Shaft	Pinion Shaft	Crankpin Type	Diameter Code	Flywheel Diameter
1	43/8"	E	1936–'54	Stock	Stock	1941–'81	None	8½" (Stock)
2	4½"	L	1955–'71	Stock	Stock	1941–'81	Α	83/8"
3	4¾"	AL	1972-Early '81	Stock	Stock	1941–'81	Х	81/4"
4	5"	SE	1955-Early '81	S&S	Stock	1941–'81		
5	4¼" (Stock 80")	BL	Late 1981-'99	Stock	Stock	1981–'99		
6	45/8"	SL	Late 1981-'99	S&S	Stock	1981–'99		
9	Special order	SF	1999-up	Press In	Press In	Press In		
12	51/4"	SG	S&S 41/8" Bore	Press In	Press In	Press In		
13	3½" (Stock 61")	SM	1995-'99 EFI	Press In	S&S	1981–'99		
14	331/32" (Stock 74")	Υ	74"/80" Indian®	Stock	Stock	Stock		
16	51/8"							
17	4"							
18	35/8"							
19	41/8"							
TA	37/8"	Titan Cuasial						
TB	4450"	Titan Special						

FLYWHEEL CODES:

Codes that pertain to the most common regular production flywheels have been listed. Many other codes for racing flywheels and special orders also exist. If you have a question about a set of S&S flywheels with codes different than those shown, contact an S&S technical assistant to properly identify what you have.

Flywheel ID codes that end with an "A" or an "X" designate flywheels with a smaller than stock diameter. Stock big twin flywheels measure 8½", and stock flywheels for Harley-Davidson® Sportster® models are 7½" in diameter. Typically, "A" means ½" smaller, and "X" means ½" smaller. To verify the code, it is best to measure the flywheels



Serial numbers can be seen through the timing hole to identify the stroke of an assembled engine Keep in mind they will appear upside down in the hole

Stroke Code	Stroke	Year Code	Engine Year	Sprocket Shaft	Pinion Shaft	Crankpin Type	Rod Bearing Type	Diameter Code	Flywheel Diameter
1	41/16"	None	1957-'76	Stock	Stock	Stock	Stock	None	7%" (Stock)
2	43/16"	В	1957-Early '81	Stock	Stock	Stock	Stock	Α	7¾"
3	45/16"	SB	1957-Early '81	S&S	Stock	Stock	Stock	Χ	75/8"
4	47/16"	BD	1957-Early '81	Stock		Stock	Stock		
6	45%"	SBD	1977-Early '81	S&S		Stock	Stock		
7	413/16"	(*	Late 1981-'85	Stock	Stock	Stock	Stock		
8	5"	SC	Late 1981-'85	S&S	Stock	Stock	Stock		
9	Special Order	SCD	Late 1981-'85	S&S		Stock	Stock		
11	4½"	SCR	Late 1981-'85	S&S	Stock	Stock	1987-Up		
12	51/4"	SCDR	Late 1981-'85	S&S		Stock	1987-Up		
15	313/16"	D	Late 1986-'03	S&S	S&S	S&S	S&S		
16	51/8"	DR	Late 1986-'03	S&S	S&S	S&S	1987-Up		
17	4"	PS	S&S Prostock	Press In	Press In	Press In			
18	3%"	KRS	45" WR/KR	Stock	Stock	1957-'81 XL	1957-'81 XL		
19	41/8"	YS	45" Indian	Stock	Stock	Stock	Stock		

ORDERING S&S® MANIFOLDS

We make one style of manifolds for both Harley-Davidson® Evolution® and Twin Cam 88® engines to fit stock cylinder heads and S&S cylinder heads—meaning manifolds supplied in S&S carburetor kits can be used with stock or S&S Super Stock® cylinder heads. The only thing that you have to keep in mind is that due to the slightly larger port diameter, these manifolds must be used with S&S manifold seals.

Replacement & Special Order Intake Manifolds

Stock, S&S Engine or S&S Kit: To order a replacement manifold, refer to the manifold size chart for your particular engine type. Manifolds are listed for various sized carburetors and throttle bodies in the correct lengths for engines and kits offered by S&S.

Custom Engine: If the effective cylinder length is different from the standard offerings, a special manifold can be machined to your specifications. Order manifolds using the special order part numbers listed in the charts. Allow two weeks for delivery

Specifying Manifold Length

When ordering a special manifold, specify the length of the manifold required for your application. There are several methods to specify the length of a manifold:

Port-To-Port Distance: S&S Manifold Measuring Tools

The most accurate method for specifying length for a special order manifold:

- Use the S&S Manifold Measuring Tools to measure port-center to port-center distance on an engine or an existing manifold.
- Specify whether the measurement was from an engine or from an existing manifold. (Manifold measurements will be approximately 030" shorter than engine measurements due to clearance normally built into the manifold).

Port-To-Port Distance: Flange Method

Another accurate method of specifying manifold length for special order is to measure the port-to-port distance on an assembled or mock-up engine:

- Assemble or mock-up the engine & install the intake flanges on heads
- Scribe a circle around the port using the mounting flange as a template The circle
 must be the same size as the ID of the flange. (It is recommended that front flange be
 installed upside down on the rear head and vice versa, to avoid inaccuracy in the circle
 diameter).
- Remove the flanges and measure the shortest distance between the scribed circles See Diagram 1

Effective Cylinder Length

Ordering a special manifold by effective cylinder length is commonly used since it does not require any special tools, however, this method will not account for machining inaccuracy in the cases or heads.

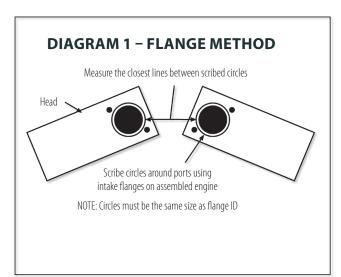
- Measure the cylinder length from gasket-surface to gasket-surface without the head and base gaskets in place. (A precision measuring instrument, such as a dial caliper, should be used to insure accurate results).
- If all components except the cylinder are stock, the actual cylinder length and the effective cylinder length are equal. However, if base plates will be used under the cylinders or if the crankcase deck height is taller than stock, the thickness of the base plates and any extra base gaskets, or the change in deck height must be added to the cylinder length to determine the effective cylinder length.
- If the cylinder heads have been decked to increase compression, the amount they have been shortened must be subtracted from the effective cylinder length.
- If the effective cylinder length is equal to or no more than 030" longer than the cylinder length listed for a specific manifold in a chart, that manifold will fit the engine.
- If the effective cylinder length is significantly different from any manifold that is available, the manifold must be special ordered. (When placing an order for a special manifold by effective cylinder length, you will be asked for actual dimensions of the cylinders and other components. S&S will calculate the effective cylinder length).

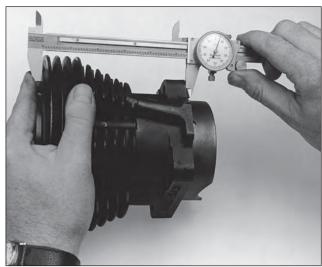
Manifold Size Number

Specifying the length of a special order manifold by size number has proven not to be a reliable method. Many manifolds ordered by this method have proved to be too long because the customer took a size number from a part that had been shortened and no longer matched the original specifications. Manifolds ordered by size number are not returnable because of fitment problems.

Manifolds For Panhead & Knucklehead Engines

Port-to-port measurement is easy since the ports are parallel to each other. On an assembled or mocked up engine, a measurement from head-to-head on opposite sides of each port should ideally be taken before the head bolts and base nuts are tightened. To insure that the ports are parallel, the heads and cylinders should be positioned so both measurements are equal. A precision measuring instrument, such as a dial caliper, should be used to ensure accurate results.





S Late Models 1999–up

YEAR CODES FOR OUR SERIALIZED PRODUCTS

S&S serial numbers begin with the following manufacturing year codes Year codes coincide with S&S Cycle's fiscal year, which starts on Oct 1st of the previous calendar year A product with serial number beginning with the letter "A" was manufactured in fiscal year 1978, between 10-01-77 and 09-31-78, or in the fiscal year 2000

A 1978	R 1992	INOT USED
B 1979	S 1993	J 2008
C 1980	T 1994	K 2009
D 1981	U 1995	L 2010
E 1982	VNOT USED	M 2011
F 1983	W 1996	N 2012
G 1984	X1997	ONOT USED
Н 1985	Υ 1998	P 2013
INOT USED	Z 1999	QNOT USED
J 1986	A 2000	R 2014
K 1987	B 2001	S 2015
L 1988	C 2002	T 2016
M 1989	D 2003	U 2017
N 1990	E 2004	VNOT USED
ONOT USED	F 2005	W 2018
P 1991	G 2006	X 2019
QNOT USED	Н 2007	

OLDER S&S® CARBURETOR REPLACEMENT PARTS

When ordering parts for older S&S carburetors, it is necessary to determine the correct style of float, needle and bowl S&S has used two different mechanisms to connect the float to the inlet needle

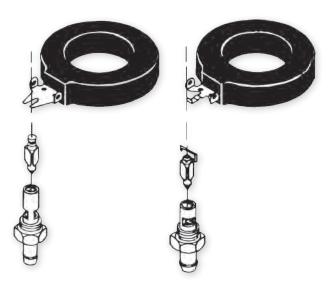
Forked Mechanism: Older style that utilizes a forked float tang, which slides into a slot in the top of the needle

Wire Mechanism: Current style that features a needle with a wire hook which attaches to the tang of the float

Parts of differing styles may not be used together For example, although the carburetor bowls of the two styles look very similar, they are not interchangeable due to differences in the float retaining pin position Some parts are no longer available for carbs with forked style mechanisms If these parts must be replaced, the entire bowl assembly must be replaced with wire mechanism style components

FORKED TYPE MECHANISM (OBSOLETE)

WIRE TYPE MECHANISM



CALCULATING CUSTOM HEAD BOLT LENGTHS

Add:

A Cylinder Length

(Gasket surface to gasket surface measurement)

+ B Base Gasket Thickness + C Head Gasket Thickness + D or E Cylinder Head Thickness

(Gasket surface to head bolt washer pad measurement:)

D Short Side All S&S = 1.207" Late 1985-'90 Stock = 1.207" 1991-up Stock = 1.405"

E Long Side All S&S = 2.700" All Stock = 2.700"

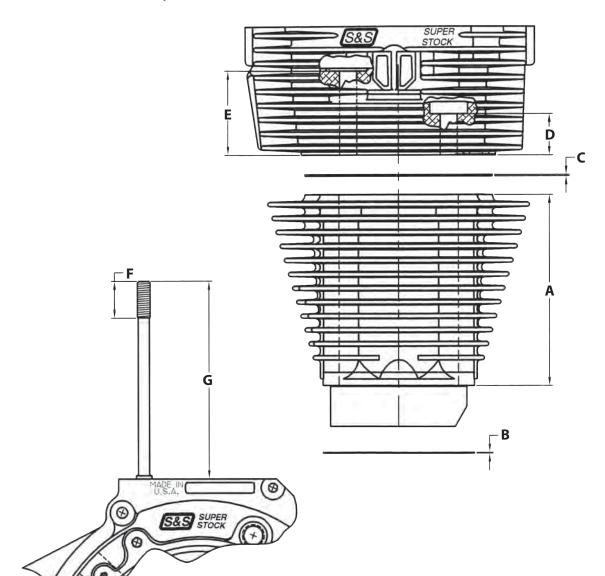
+ F Desired thread engagement .563"

Usually 11/2 times stud diameter - stock studs are 3/8"

Subtract:

G Cylinder Stud Installed Height

(Crankcase deck to top of stud measurement)



AIR CLEANERS		BEARINGS	
AIR CLEANER KIT		INNER PRIMARY BEARING RACE	
2014-2015 INDIAN® MODELS	320, 321	1999-2006 BIG TWINS	205
REPLACEMENT PARTS	322	2007-2016 BIG TWINS	109
MINI TEARDROP STEALTH AIR CLEANER KIT		BREATHER REED VALVES	
STREET®/STREET ROD™	311, 312	CRANKCASE BREATHER REED VALVES	
SINGLE BORE TUNED INDUCTION SYSTEM		1999-2006 BIG TWINS	172
1999-2006 BIG TWINS	159	REPLACEMENT PARTS	240
REPLACEMENT PARTS	228	2007-2016 BIG TWINS	77
2007-2016 BIG TWINS	64		
REPLACEMENT PARTS	134 , 135	C	
SPORTSTER® & BUELL® MODELS	252	CAMPIATES	
REPLACEMENT PARTS	300	CAM PLATES	174
STEALTH AIR CLEANER KITS		1999-2006 BIG TWINS	
1999-2006 BIG TWINS	155, 156, 157	REPLACEMENT PARTS	
REPLACEMENT PARTS	227	2007-2016 BIG TWINS	
2007-2016 BIG TWINS	59, 60, 61	REPLACEMENT PARTS	
ADAPTOR FOR RUSHMORE COVER	66	MILWAUKEE-EIGHT®	
REPLACEMENT PARTS		REPLACEMENT PARTS	4/
S&S® ENGINES	62	CAMSHAFTS	
MILWAUKEE-EIGHT®	21, 22	CAM CHEST UPGRADES	
REPLACEMENT PARTS	35	1999-2006 BIG TWINS	
SPORTSTER® & BUELL® MODELS	249, 250	2007-2016 BIG TWINS	91
REPLACEMENT PARTS	297	CAM RELATED REPAIR PARTS	
STREET® MODELS	311	1999-2006 BIG TWINS	
REPLACEMENT PARTS	314	2007-2016 BIG TWINS	90
STREET ROD™	312	CAMSHAFTS	
REPLACEMENT PARTS	315	1999-2006 BIG TWINS	
STEALTHTWO AIR CLEANER KITS		2007-2016 BIG TWINS	
INDIAN® MODELS	320	SPORTSTER® & BUELL® MODELS	267
VICTORY® MODELS		CHAIN DRIVE CAM KITS	
TEARDROP AIR CLEANER KITS		1999-2006 BIG TWINS	
1999-2006 BIG TWINS	160	2007-2016 BIG TWINS	
REPLACEMENT PARTS	234	MILWAUKEE-EIGHT®	28
2007-2016 BIG TWINS	65	GEAR DRIVE CAM KITS	
REPLACEMENT PARTS	136–137	1999-2006 BIG TWINS	
SPORTSTER® & BUELL® MODELS	253	2007-2016 BIG TWINS	
REPLACEMENT PARTS	298, 304	MILWAUKEE-EIGHT®	28
AIR FILTER		HYDRAULIC CAM CHAIN TENSIONER KIT	
HIGH FLOW AIR FILTER KIT		1991-2006 BIG TWINS	
1999-2006 BIG TWINS	161	2007-2016 BIG TWINS	91
2007-2016 BIG TWINS	66	CARBURETOR KITS	
SPORTSTER® & BUELL® MODELS	254	BLACK CARBURETORS	
PRE-FILTERS		1999-2006 BIG TWINS	
1999-2006 BIG TWINS	161	SPORTSTER® & BUELL® MODELS	282
2007-2016 BIG TWINS	66	BREATHER CONVERSION KIT	
SPORTSTER® & BUELL® MODELS		SPORTSTER® & BUELL® MODELS	282
STANDARD REPLACEMENT FILTERS		JETS & CARB REBUILD KITS	
1999-2006 BIG TWINS	161	1999-2006 BIG TWINS	
2007-2016 BIG TWINS		SPORTSTER® & BUELL® MODELS	
SPORTSTER® & BUELL® MODELS		OLDER S&S® CARBURETOR REPLACEMENT KITS	348
		RIGID CARB SUPPORT BRACKETS	
		SPORTSTER® & BUELL® MODELS	282
		SUPER E & G COMPLETE CARBURETOR KITS	
		1999-2006 BIG TWINS	
		REDI ACEMENT PARTS	238

SPORTSTER® & BUELL® MODELS......281

REPLACEMENT PARTS306

CLUTCH	CYLINDERS & PISTON KITS
HEAVY DUTY DIAPHRAGM SPRING	1999-2006 BIG TWINS176, 177
1999-2006 BIG TWINS206	2007-2016 BIG TWINS81
2007-2016 BIG TWINS109	SPORTSTER® & BUELL® MODELS263, 264
HIGH PERFORMANCE CLUTCH	·
1999-2006 BIG TWINS	D
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