

new products



BLACK EDITION ENGINES









SEE PAGE 56



PERFORMANCE KIT OVERVIEW FOR HARLEY-DAVIDSON® TWIN CAM 96TM AND 103TM



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 39



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 %". The kit's cylinders open the stock 3 34" bore to 4 1/4". 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 23



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 24.



103" AND 106" HOT SET UP KIT

This kit gives you the flexibility to build the performance package you want. 103" owners can have their stock cylinders bored or purchase pistons and cylinders already sized. S&S Easy Start 585 chain drive cams are included in all kits or select a specific camshaft from the CTO options. 106" kits can be purchased with or without heads. Retain your stock heads or select 83cc CNC heads for even greater performance. See page 28

No crankcase machining is required with either displacement package. Fuel injection tuning required.



107" & 106" BIG BORE KIT

A low cost bolt-on kit provides big displacement! Just like the 97" kit, the 107" and 106" Big Bore Kits offer the simplicity of a bolt-on cylinder kit. Satisfy your thirst for speed with the largest bolt-on cylinders available. 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 26

PERFORMANCE KIT SPECIFICATIONS FOR HARLEY-DAVIDSON® TWIN CAM 96™/103™/110™

						COMPRESS	ION RATIO					HORSEPOWER	TORQUE
KIT DESCRIPTION	BORE	STROKE	Stock Heads	79сс	89cc	91cc	CNC Heads				CAMSHAFT	(CNC He	ads)
							83cc	85cc	87cc	90сс		(ununuu)	
Power Pack	4"										585		
124" Hot Set Up Kit (Flat Top Piston)	4 1/8"	4 5%"	11.4:1	*	11:1	10.8:1	11.6:1	11.4:1	11.2:1	10.9:1	640	127	130
106" Hot Set Up 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	585	106	108
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
103" Hot Set Up Kit	3 %"	4 3/8"	10.5:1	11.2:1	10.1:1	9.9:1	10.7:1	10.5:1	10.3:1	10:1	585	100	102

^{*}Not Recommended

PERFORMANCE KIT CONTENTS, OPTIONS AND REQUIREMENTS FOR HARLEY-DAVIDSON® TWIN CAM 96™/103™/110™

					PACKAG	E CONTENT	S				MACHINING	сто	REJETTING OR CALIBRATION CHANGE
KIT DESCRIPTION	Flywheels	Cylinders	Pistons w/rings	Rocker Arms	Pushrods w/covers	Lifters	Camshafts	Valve Springs	Heads w/ springs	Gaskets	REQUIRED	OPTIONS*	
Power Pack		•	•			•	•						
124" Hot Set Up Kit	•	•	•	•	•	•	•		0	•	84	900	•
117" Big Bore Kit		•	•						0	•	84	900	•
106" Hot Set Up Kit		•	•		•	•	•		0	•		900	•
106" Big Bore Kit		•	•							•			•
103" Hot Set Up Kit			0		•	•	•			•	0	9008	•

 $\mathbf{o} = Optional$

 $\mathbf{S} = Crankcase \ machining \ for \ center \ stud$

 $\mathbf{6}$ = Camshaft selection

(a) = CNC heads **(c)** = Combustion chamber size selection

Order separatelyBore & hone cylinders

 $\mathbf{4}$ = Crankcase machining for cylinder spigots

8 = Cylinder & piston set available

FUEL INJECTION TUNING REQUIRED. S&S OFFERS FUEL INJECTION TUNING SOLUTIONS: SEE PAGE 72.

^{*}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.



BORE BOLT-IN SIDEWINDER® BIG BORE KITS



S&S 4" big bore cylinder and piston kits boost 96/103" Harley-Davidson® big twin engines to 110" réspectively. 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

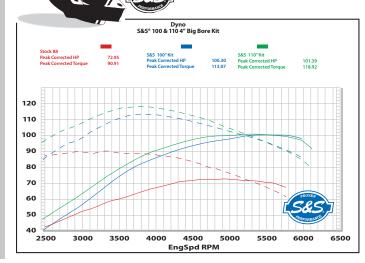
• 2007–17 big twins (except 2017 Touring)

	SPECS FOR S&S 4" BORE BOLT-IN CYLINDER & PISTON KITS											
	Year Stroke			Culinday			(Compression Ratio	0			
		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			

S&S® 4" BORE BOLT-IN SIDEWINDER® BIG BORE KITS

inder) [®] S&S® 4" BORE BO	OLT-IN SIDEWINDER® BI	IG BORE KITS			
	Displacement	Year	Stroke	Finish	Part #	MSRP
180	110	2007-'17 Big Twin (except 2017 Touring)	43/8"	Silver	910-0598	\$1,099.95
5	110	2007-'17 Big Twin (except 2017 Touring)	43/8"	WBlack	910-0599	\$1,099.95

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.



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 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 (WBlack) Powder coat finish heads match factory finish
- .045" MLS (multi-layered steel) head gaskets
- Requires crankcase boring —S&S can provide quality, professional machine shop and engine building service through our S&S® Service & Speed Center®. Contact your S&S customer service representative for details.
- 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 91cc high flow Super Stock® heads

Sas 91cc flight flow super stock fleads
 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 of the sadd bird stocks 10.4:1 compression ratio intended for stock 85cc chamber

cylinder heads) includes:

10.9cc Dished pistons Silver finish available through C10.

S&S® 124" HOT SET UP KIT® SPECIFICATIONS

Year Stroke B	Bore	Cylinder	Piston Type/Compression Ratio							
	Stroke	Dure	Length	91cc S&S Heads	89cc S&S Heads	85cc Stock Heads	95cc Stock 110 CVO Heads			
2007-'16	4 5%"	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 Type	Cam	Finish	Part No.	MSRP
2006 Dyna® & 2007-'17 Twin Cam 96™/103™ & 2008-up Touring Models	640GE	WBlack	900-0568	\$5,230.36
2007-'17 big twins w/Balancer	0400E	WDIACK	900-0569	\$5,230.36
Other Finishes and Combinations Available Here	Specify	Specify	106-5752	Call for Pricing

Does not fit Twin-Cooled™ models

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900-0569



S&S® 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 No.	MSRP
2007-'17 CVO 110 engines	640	Stone Gray	900-0690	\$4,328.50

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Stock crankcases need to be bored to accept new 41/8" bore cylinders. S&S can provide this service for you! See S&S Service & Speed Center® on page 506.

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 single bore throttle bodies and manifolds. (page 58) For 2008-up touring models with electronic throttle control S&S recommends a S&S Throttle Hog 58mm or 66mm Throttle body (page 57).

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 The S&S Service & Speed Center® can preform this modification for you. See page 506.

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 24604-00E 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: page 72

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.

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 (WBlack) Powder coat cylinders and heads match 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

SPECIAL ORDER OPTIONS

- CNC heads Available in 83, 85, 87, 90cc chambers
- Camshafts Gear or Chain Drive: 570, 585, 625, or 640



S&S® 117" BIG BORE KITS

Model or Engine Type	Piston	Finish	Part No.	MSRP
117" Standard Compression	Flat Top	Silver	910-0213	\$1,155.38
117 Standard Compression	riat iop	WBlack	910-0221	\$1,155.38
11711 (Disk s d	Silver	910-0321	\$1,155.38
117" Low Compression	Dished	WBlack	910-0318	\$1,155.38
Special Order*		Specify	91-7506*	Call for Pricing

Jaj 117	AS 117 DIG DORERIT SI ECHTEATIONS												
				Cvlinder			COMPRE	SSION 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	4 3/8"	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.

Stock crankcases must be bored to accommodate the larger 41/8" bore cylinders. S&S can provide this service for you!

2008-up touring models with electronic throttle control recommends S&S Throttle Hog 58mm or 66mm Throttle body (See page 57) and Dynojet® Power Vision flash tuner, see page 73 or Harley-Davidson® race tuner.

.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. S&S can provide this service for you.

Requires recalibration.

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S&S can provide quality, professional machine shop and engine building service through our S&S° Service & Speed Center°. We can handle any job from fitting a set of pistons in your cylinders, to complete installation of any engine kit. Contact your S&S customer service representative for details.

ppendix Index

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 big hog really run. Here's how.

- 1. Install an S&S performance exhaust and air cleaner a must for any performance ungrade
- 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 - except Twin Cooled models

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
- Easy EFÍ tuning with free calibration downloads for Dynojet® Power Vision® tuner or S&S EZ Loader — no expensive dyno time required







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

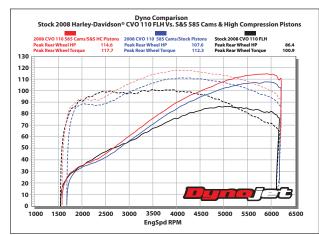
Fitment	Deck Height	Wristpin Diameter	Standard	MSRP	+.010"	MSRP
2007-'17 bt CVO™ 110" engines - except Twin Cooled™ models	1.0895"	.927"	920-0114	\$413.21	920-0115	\$413.21

S&S 585 CAMSHAFTS FOR HARLEY-DAVIDSON® CVO™ 110 ENGINES

Cam Style	Easy Start*	MSRP	Standard	MSRP
Chain Drive 585 cams (includes installation kit)	106-5233	\$428.00	106-4382	\$328.82
Gear Drive 585 cam kits (includes inner and outer gears and installation kit)	106-5225	\$857.01	33-5268	\$758.32

*S&S Easy Start cams feature a built-in automatic compression release for reliable starting. For more information go to http://www.sscycle.com/easy-start-cams/

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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.





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 the maximum bores size 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 performant
- 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



• Hot Set Up Kit – options for heads, cams, pushrods, tappets and gaskets



910-0500



S&S® 107" BIG BORE KIT AND HOT SET UP KIT SPECIFICATION CHART

					COMPRESSION RATIO (with provided .045" head gasket)				
Year	ar Stroke Bore Cylinder Length Pist		Piston Type	79cc S&S Heads	83cc CNC Ported Stock Heads	85cc Stock Heads	89cc S&S Heads		
2007-2017	4 3/8"	3.937"	4.937"	Forged, 3cc Dome	11.2:1	10.7:1	10.5:1	10.1:1	

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

S&S® 107" BIG BORE KITS

Fitment	Cylinder Finish	Finish Part No.			
2007 117 his train	Silver Powder coat	910-0480	\$975.00		
2007-'17 big twin, except 2017 touring models	WBlack Powder coat	910-0500	\$975.00		

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S&S® 107" HOT SET UP KITS® WITH 83CC CNC PORTED HEADS, CYLINDERS & PISTONS

Model Year	Cam	Compression Ratio	Piston Type	Valve Springs	Finish	Part No.	MSRP
CTO	Specify	Specify	Specify	Specify	Specify	106-5744	Call for Pricing

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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. When used on EFI models, S&S recommends Dynojet® Power Vision flash tuner, for more information, see page 73.

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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
 - S&S logo and part numbers are less conspicuous
 - Better overall appearance

OPTIONS

 Oversize pistons available - See page 38

KIT CONTENTS

- S&S cylinders with gasket
- Piston set with rings
- Top end gasket kit
- Instructions



910-0206

S&S® 106" BIG BORE KIT SPECIFICATION CHART

V	Voor Stroko	D	C-1:1	Distant Tona	COMPRESSION RATIO				
Year	Stroke	Bore	Cylinder Length	Piston Type	85cc Stock Heads	79cc S&S Heads	89cc S&S Heads	83cc CNC Ported Stock Heads	
2007-'17	4 3/8"	3.927"	4.937"	Forged Flat Top	10.0:1	10.7:1	9.7:1	10.2:1	

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

S&S® 106" BIG BORE KITS

Fitment	Finish	Part No.	MSRP
2007 117 his toric and 2014 11/ Toric Cooled Madels	WBlack	910-0206	\$850.00
2007-'17 big twin and 2014-'16 Twin Cooled Models	Silver	910-0202	\$850.00

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

					-		
Model Year	Cam	Compression Ratio	Piston Type	Valve Springs	Finish	Part No.	MSRP
2007-'17 big twin and			WBlack	900-0354	\$1,655.62		
2014-'16 Twin Cooled Models	585CE	10.0:1	Flat top	_	Silver	900-0355	\$1,655.62
CTO	Specify	Specify	Specify	Specify	Specify	106-5744	Call for Pricing

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

Model Year	Cam	Compression Ratio	Piston Type	Valve Springs	Finish	Part No.	MSRP
2007-'17 big twin (except Twin-Cooled™ models)	585CE	10.2:1	Flat top	.585"	WBlack	900-0352	\$3,174.29
CTO	Specify	Specify	Specify	Specify	Specify	106-5744	Call for Priding

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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. When used on EFI models, S&S recommends Dynojet® Power Vision flash tuner, for more information, see page 73

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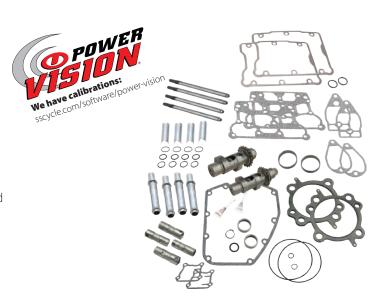
900-0352

FITMENT

• 2007-'17 big twins, except 2017 touring models

FEATURES AND BENEFITS

- Up to 25hp increase! (when combined with upgraded fuel system and a performance exhaust)
- No crankcase modification required. Uses your stock flywheels!
- S&S high lift cams are included for maximum power increase
- Kits include S&S Easy Start chain drive cams
- S&S adjustable pushrods are made from high strength chromoly tubing
- For 103" customers, stock cylinders can be bored to 37%", honed and reused
- 103" pop-up domed pistons increase compression and add horsepower
- Valve pocket recesses in S&S pistons are enlarged for oversized valves and high lift cams
- .045" MLS head gaskets included
- · Maintains stock engine height and stock piston weight



S&S® 103" AND 106" HOT SET UP KIT® SPECIFICATIONS

Year	Displacement	Stock	Bore	Cylinder	Piston Type	Compression Ratio			
icai	Displacement	Stroke	Doic	Length	r istori type	85cc Stock Heads	79cc S&S Heads	83cc CNC Ported Stock Heads	
2007 - '17	103"	4 3/8"	3 %"	4.937"	Forged, 5.2cc pop-up dome	10.5:1	11.2:1	10.7:1	

S&S® 103" HOT SET UP KITS®

(REQUIRES SPECIAL S&S PISTONS. SEE CHART BELOW)

Model Year	Cam	Induction	Piston Type	Valve Springs	Part No.	MSRP
CTO	Specify	Specify	5.2cc Domed	Specify	106-5744	Call for Pricing



THIS KIT REQUIRES SPECIAL S&S PISTONS.

Order the required piston oversize from this chart.

106-0432 SERIES PISTONS FOR S&S® 103" HOT SET UP KIT®

Oversize	Standard	MSRP	+.005"	MSRP	+.010"	MSRP
Part No.	106-0432	\$366.71	106-0433	\$366.71	106-0434	\$366.71

 ${\it Pistons are designed for 43\%" stroke flywheels in 2007-'12~96" engines and are coated to reduce friction.}$



106-0432



These kits require tuning, for EFI models S&S recommends Dynojet® Power Vision® flash tuners, see page 73 for more details.

2008-up touring models with electronic throttle control require throttle body and Dynojet® Power Vision flash tuner, page 73 or Harley-Davidson® race tuner.

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S&S can provide quality, professional machine shop and engine building service through our S&S® Service & Speed Center®. We can handle any job from fitting a set of pistons in your cylinders, to complete installation of any engine kit. Contact your S&S customer service representative for details.

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.

ENGINE OVERVIEW

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.



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&S T143 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
- S&S high flow oil pump and cam cover
- S&S 635 Easy Start Gear Drive Cams and S&S 1.725:1 rocker arms for .674" total lift
- S&S Premium High Performance Tappets
- 1 year warranty

OPTIONS

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

SUGGESTED ACCESSORIES

- Dynojet® Power Vision® for tuning
- Stealth Air Cleaner Kit 143 Cover: See page 62



310-0870



310-0435

S&S® T143 ENGINES WITHOUT FUEL AND IGNITION SYSTEMS

July 1113 Ententes 1	***************************************	THE TOTAL		71 E11113				170-0253			
Chassis Style	Displacement	Bore	Stroke	Cam	Piston Type	Compression Ratio	Warranty Period	Finish	Part No.	MSRP	
								WBlack & Chrome	310-0548	\$9,568.23	
2007-2016 Touring Models 143" 4.425" 458" 6	635	S&S Forged	10.5:1	1 year	Stone Gray	310-0549	\$9,568.23				
					Flat Top		·	Black Edition	310-0837	\$9,750.00	
2006-'17	14211	4 42511	45/11	(25	S&S Forged	10.5.1	1	Black Edition	310-0901	\$9,750.00	
Dyna® Models	143"	4.425"	4%"	635	Flat Top	10.5:1	1 year	WBlack & Chrome	310-0883	\$9,250.00	

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REQUIRES OIL LINE INSTALLATION KIT. See chart.

CRC® INSTALLATION PARTS

3&3 INSTALLATION PART	13			
Description		Part No.	MSRP	
Oil Line Install Kit	WBlack	310-0870	\$550.00	
for 2006-'17 Dyna® Models	Silver	310-0871	\$550.00	
Oil Line Kit	310-0435	\$114.29		
Transmission Drilling Fixture Kit for 2007-16 touring models"	Transmission Drilling Fixture Kit for 2007-16 touring models"			
Head Marriet Director	2009-16 Touring	900-0798	\$37.89	
Head Mount Bracket	2008 Touring	900-0797	\$46.63	
Fuel Injector 2 pack	550-0603	\$171.43		

Description	Part No.	MSRP
70mm Induction Kit* 2008-'16 Touring (includes injectors)	170-0253	\$1,399.57
70mm Induction Kit Cable operated 2007-17 Dyna® models & 2007 Touring (includes injectors)	170-0288	\$1,659.29
Exhaust Flange Starter Kit	550-0216	\$73.37

^{*}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, page 57 for more details.

T-SERIES T2 LONG BLOCK ENGINES

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 Héad machining Fits stock length intake manifolds (S&S manifold size 405)
- 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
- S&S high flow oil pump and cam cover
- S&S Easy Start gear drive cams
- Stock Twin Cam 96™ bolt pattern

OPTIONS

- T111 111 cubic inches, France perfect sport-touring engine
- T124 124 cubic inches, hotrod performance, 640 Easy Start gear drive cams
- 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 engine



SUGGESTED ACCESSORIES

• Stealth Air Cleaner Kits. See page 61

S&S® T124 ENGINES WITHOUT FUEL AND IGNITION SYSTEMS

Chassis Style	Displacement	Bore	Stroke	Cam	Piston Type	Compression Ratio	Warranty	Finish	Part No.	MSRP			
					S&S Forged			Black Edition	310-0835	\$6,795.00			
				640	Flat Top	3 10 8.1		WBlack & Chrome	310-0400	\$6,343.53			
2007-up	124"	41/8"	45%"					Stone Gray	310-0511	\$6,343.53			
Touring Models	124	478	478	S&S Forgeo 585 Dished, 11cc	585	'	85 Dished,			Black Edition	310-0836	\$6,695.95	
								10.2:1	2 Year	WBlack & Chrome	310-0401	\$6,262.00	
					11cc					Stone Gray	310-0512	\$6,262.00	
2006-'17	124"	41/8"	45/11		S&S Forged	10.01	2 Year	Black Edition	310-0900	\$6,795.00			
Dyna® Models	124		45/8"	640	Flat Top	p 10.8:1	10.8:1	10.8:1	10.8:1	op 10.8:1	2 fedi	WBlack & Chrome	310-0882
CTO				Specify		Specify	Varies	Specify	319-0010	Call for Pricing			

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S&S® T111 ENGINES WITHOUT FUEL AND IGNITION SYSTEMS

Chassis Style	Displacement	Bore	Stroke	Cam	Piston Type	Compression Ratio	Warranty	Finish	Part No.	MSRP	
2007-up Touring Models	111"	41/ !!	41/11	585	COC Formed	0.0.1	2 Veer	WBlack & Chrome	310-0402	\$6,053.92	
2007-up Touring Models		41/8"	41/8" 41/8"		585	S&S Forged	9.8:1	2 Year	Black Edition	310-0834	\$6,495.95
CTO				Specify		Specify	Varies	Specify	319-0010	Call for Pricing	

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REQUIRES OIL LINE INSTALLATION KIT. See chart.

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

Description	Part No	MSRP	
Oil Line Kit for 2007-'16 Touring Model	310-0435	\$114.29	
Transmission Drilling Fixture Kit	530-0006	\$169.95	
Oil Line Install Kit	WBlack	310-0870	\$550.00
for 2006-'17 Dyna® Models	Silver	310-0871	\$550.00

COMPLETE ENGINE REBUILD GASKET KITS

S&S Engine Family	Bore Size	Part No	MSRP
T-Series	41/8"	310-0335	\$181.25





NOTES

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 57.

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SUPER STOCK™ T2 CRANKCASE

FITMENT

- 2007-'16 Harley-Davidson® touring model big twins
- 2006-'17 Dyna® models

FEATURES AND BENEFITS

- Stock looking, but stronger Thicker wall sections and superior 356-T6 aircraft grade aluminum

 Tough powder cost fields
- 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 4 13/16" 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

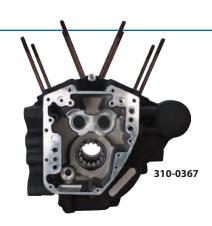
INSTALLATION PARTS

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





530-0006



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

S&S® INSTALLATION PARTS

Wrinkle Black

Silver

Description	Part No	MSRP	
Oil Line Kit for 2007-'16 Tou	310-0435	\$114.29	
Transmission Drilling Fixture	530-0006	\$169.95	
Oil Line Install Kit for 2006-'17 Dyna® Models	WBlack	310-0870	\$550.00
	Silver	310-0871	\$550.00

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

Bore Size	Stone Gray	MSRP	WBlack	MSRP	Silver	MSRP
Stock Bore (Stock Bolt Pattern) 2007-16 Touring Models	-	-	310-0367A [†]	\$1,370.71	310-0366A [†]	\$1,370.71
Stock Bore (Dyna® models)	-	_	310-0878	\$1,295.95	310-0881	\$1,295.95
CVO 110 Stock Bore	310-0543A†	\$1,478.93	_	_	_	_
41/4" Bore (Stock Bolt Pattern) 2007-16 Touring Models	310-0503	\$1,406.79	310-0369	\$1,406.79	310-0368	\$1,406.79
41/8" Bore (Dyna models with Stock Bolt Pattern)	-	_	310-0856	\$1,395.95	-	_
4%" Bore (S&S Bolt Pattern)** 2007-16 Touring Models	-	_	310-0371	\$1,406.79	310-0370	\$1,406.79
4.425" Bore 2007-16 Touring Models	310-0691	\$1,478.93	310-0690	\$1,478.93	_	-
4.425" Bore (Dyna models)	-	_	310-0859	\$1,464.95	_	_
Special Order*	319-0025	Call for Pricing	319-0025	Call for Pricing	319-0025	Call for Pricing

^{*}Special Order: Download the Special Order Form at sscycle.com/soforms. Use the special order part number to order crankcases with a special finish

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RANKCASE BREATHER REED VALVES FITMENT

- Twin Cam 96[™]/103[™] (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 No.	MSRP
For Engines with S&S Gear Oil Pump	2007-up S&S crankcases	310-0742	\$116.41

REPLACEMENT SPRING

Spring, Wave, 1.6" x 2" x 2", 2.8mm	31-2078	\$14.31
-------------------------------------	---------	---------



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.

^{**}Requires seperate purchase of tappet covers sets #330-0281

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

lwin Cam 96"/103"/110 2007-2017

Company Policy

> Appendix & Index

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
- 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!





FLYWHEEL ASSEMBLIES FOR 2007-2016 HARLEY-DAVIDSON® BIG TWIN MODELS

Engine Displacement	Stroke	Balanced to Total Piston Weight (gms)	Rod WP End Style	Sprocket Bearing Race		Harley-Davidson® Twin Cam 96®/103™		vidson [®] B™/103B™
96, 103, 106 big bore, 110, 117	43%"	1025	Caucialha	Yes**	320-0350	\$1,472.02	320-0356	\$1,478.86
w/S&S Pistons	4 7/8	1035	Straight	No	320-0351	\$1,444.24	320-0357	\$1,478.86
96, 103, 110 w/Stock Pistons*	43/11	1025	Tomound*	Yes**	320-0352	\$1,472.02	320-0358	\$1,478.86
	4 3/8"	1035	Tapered*	No	320-0353	\$1,444.24	320-0359	\$1,478.86
S&S 106 Stroker***	4 ½"	1108	Straight	No	320-0450	\$1,444.24t	320-0544	\$1,553.03
S&S 111	4 1/8"	1035	Straight	No	320-0407	\$1,444.24	320-0413	\$1,444.24
SE 120R (uses 7.575" length rods)	4 5%"	1035	Straight	No	320-0523	\$1,444.24	320-0529	\$1,444.24
S&S 124	4 5%"	1035	Straight	No	320-0464	\$1,444.24	320-0471	\$1,478.86
S&S 143	4 5/8"	1290	Straight	No	320-0545	\$1,515.00	_	
Special Order	Specify	Specify	Specify	Specify	329-0002	Call for Pricing	329-0002	Call for Pricing

^{*}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.

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



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.

The S&S Service & Speed Center® can perform this modification for you. See page 506.

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 24604-00A, 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.

S&S can provide quality, professional machine shop and engine building service through our S&S® Service & Speed Center®. We can handle any job from fitting a set of pistons in your cylinders, to complete installation of any engine kit. Contact your S&S customer service representative for details.

TRYING TO IDENTIFY AN S&S® FLYWHEEL? SEE FLYWHEEL I.D. CHART: PAGE 526.

REPLACEMENT PARTS: PAGE 81

^{**}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.

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
- Rebuildable bronze pinion shaft bushing in all models and bronze cam bushings in 2007-later style
- Made In The USA



310-0625

S&S® TC3 CAM PLATE

Fitment	Part No.	MSRP
2006 Dyna® models & 2007-'17 bt, except 2017 touring models	310-0625	\$349.95

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

• 2007-'16 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!



S&S® TC3 OIL PUMP

Fitment	Part No.	MSRP
2006 Dyna® models & 2007-'16 bt, except 2017 touring models	310-0641	\$399.95

TC3 OIL PUMP & CAM PLATE KITS



S&S® TC3 OIL PUMP AND CAM PLATE KITS

Fitment	Part No.	MSRP
2006 Dyna® models & 2007-'17 bt, except 2017 touring models	310-0732	\$674.95

^{*}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.

OIL PUMPS

FITMENT

- 2007-'17 big twins and 2006 Dyna® models
- Fits all engines built with S&ST-Series crankcases, except 2017 touring models

FEATURES AND BENEFITS

- Replaces stock oil pump, cams, cam support plate, bearing plate, bearings and decorative gearcover
- Uses drive gears of special S&S gear drive cams to pump oil
- Oil pressure is regulated after the more consistent pressure to the engine
- Increased scavenging capacity results in:
 - Less oil in the crankcase
 - Less power loss
 - Less heat build up
 - Less oil carryover
- Excess oil from pressure control valve is filtered longer pump life



106-3887

S&S® OIL PUMP KIT WITHOUT CAMS

Finish	Part No.	MSRP
Chrome	106-3887	\$1,346.69

Requires installation of gear drive cams, see chart. below

REPLACEMETNT PARTS: PAGE 84



S&S GEAR OIL PUMPS FOR 2007-'17 (EXCEPT 2017 TOURING MODELS) BIG TWIN AND 2006 DYNA® MODELS



330-0145

Cam* Part No. MSRP 585GPF 330-0145 \$626.36 635GPF 330-0369 \$626.36 640GPF 330-0144 \$626.36

*See Camshafts starting page 40 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 on any EPA pollution controlled motor vehicle.

BILLET GEARCOVER

FITMENT

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

S&S® BILLET GEARCOVER*

Finish	Part No.	MSRP
Polished	31-6516	\$386.22
Chrome	106-3774	\$435.00

^{*}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.



31-6516

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 BOLT-IN SIDEWINDER® KITS SPECIFICATION CHART

			Cylinder				Compress	sion Ratio	
Displacement	Stroke	Bore	Length	Piston Type Dome Volume	Dome Volume	79cc S&S Heads	83cc CNC Heads	85cc Stock Heads	89cc S&S Heads
110"	4 3/8	4.00"	4.937"	Forged	.75 pop up	11.2:1	10.7:1	10.5:1	10.2:1

S&S° 4" BORE BOLT-IN SIDEWINDER° BIG BORE KITS

Displacement	Silver	MSRP	WBlack	MSRP
110	910-0598	\$1,099.95	910-0599	\$1,099.95

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PISTON REPLACEMENT PARTS: PAGE 38

S&S® 4%" BORE CYLINDERS WITH PISTONS SPECIFICATION CHART FOR 124" AND 117" KITS

Displacement	Stroke	Cylinder Length	Forged Piston	Compression Ratio				
Displacement	placement 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	10.5:1	10.2:1	10.0:1	9.7:1	
117"	4.375	4.878	Flat Top	10.9:1	10.5:1	10.3:1	10.0:1	
117" Dish	4.375	4.878	10.9 cc dish	10.0:1	9.7:1	9.6:1	9.3:1	
111"	4.125	4.754	Flat Top	10.3:1	9.9:1	9.8:1	9.4:1	

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

Diselection of		STOCK HEADS OR S&S HEADS WITH STOCK BOLT PATTERN								
Displacement	Stone Gray	MSRP	Silver	MSRP	WBlack	MSRP				
124"	910-0469	\$1,155.38	910-0341	\$1,155.38	910-0338	\$1,155.38				
124" dish	910-0490	\$1,155.38	910-0327	\$1,155.38	910-0324	\$1,155.38				
117"	910-0474	\$1,155.38	910-0213	\$1,155.38	910-0221	\$1,155.38				
117" dish	_	_	910-0321	\$1,155.38	910-0318	\$1,155.38				

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S&S® BIG BORE KIT SPECIFICATION CHART FOR 106" & 107" KITS

					COMPR	ESSION RATIO (with p	provided .045" head <u>c</u>	jasket)
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	11.2:1	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 include pistons and cylinders that require no boring or honing.

S&S® BOLT-IN BIG BORE KITS

Displacement	Silver	MSRP	WBlack	MSRP
107"	910-0480	\$975.00	910-0500	\$975.00
106"	910-0202	\$850.00	910-0206	\$850.00

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CYLINDERS

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

S&S® 4.425" BORE CYLINDERS WITHOUT PISTONS FOR T143

Displacement		Stone Gray	MSRP	WBlack	MSRP
143"	Set	910-0562	\$1,125.43	910-0565	\$1,125.43

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

Displacement		Stone Gray	MSRP	Silver	MSRP	WBlack	MSRP
124" & 124" dish	Set	910-0494	\$720.10	910-0392	\$760.10	910-0401	\$668.38
117" & 117" dish	Set	910-0497	\$720.10	910-0231	\$720.10	910-0252	\$720.10

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S&S 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 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.

S&S® 3.937" BORE CYLINDER

Displacement		Silver	MSRP	WBlack	MSRP
107"	Front or Rear	910-0478	\$374.10	910-0477	\$374.10

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S&S® 3.927" BORE CYLINDERS

Displacement		Silver	MSRP	WBlack	MSRP
106"	Front or Rear	910-0210	\$386.05	910-0212	\$374.07



S&S 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.

S&S® 3%" BORE CYLINDERS

Displacement		Silver	MSRP	WBlack	MSRP	
103"	Set	910-0207	\$628.53	910-0208	\$628.53	



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.



ALL OTHER BORES AND FINISHES ARE AVAILABLE THROUGH SPECIAL ORDER

* Special Order: Download the Special Order Form at sscycle.com/soforms

91-7506* Call for Pricing

PISTON KITS

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



S&S® 4" BORE FORGED PISTON KITS FOR 110

Displacement	Deck Height	Stroke	Standard	MSRP
110	1.090"	43/8"	920-0127	\$384.95

S&S® 4.425" BORE FORGED PISTON KITS FOR T143

Displacement	Deck Height	Stroke	Standard	MSRP	+.020"	MSRP
T143	1.167"	45/8"	920-0106	\$616.25	920-0111	\$616.25

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

Displacement	Deck Height	Stroke	Standard	MSRP	+.010"	MSRP	+.020"	MSRP	+.030"	MSRP
124" & 117" Stock Heads 10cc Dished	1.050"	Up To 45%"	920-0046	\$440.39	920-0047	\$440.39	920-0050	\$440.39	920-0053	\$439.60
124", 117" & 111" -Stock or S&S Heads Flat Top	1.050"	Up To 45%"	106-3491A	\$440.39	106-3872A	\$440.39	106-3964A	\$440.39	920-0094	\$439.60

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

Fitment	Deck Height	Wristpin Diameter	Standard	MSRP	+.010"	MSRP
2007-'17 bt CVO™ 110" engines - except Twin Cooled™ models	1.0895"	.927"	920-0114	\$413.21	920-0115	\$413.21

S&S® 3.937" BORE FORGED PISTON KIT

Displacement	Deck Height	Stroke	Standard	MSRP
107"	1.085"	43/8"	920-0100	\$379.90

S&S® 3.927" BORE FORGED PISTON KITS FOR 106" TOP END KITS

Displacement	Deck Height	Stroke	Standard	MSRP	+.010"	MSRP
106" Flat top	1.090"	43/8"	106-3690	\$396.85	106-4416	\$386.73

S&S® 37%" BORE FORGED PISTON KITS FOR 103" ENGINES

Displacement	Deck Height	Stroke	Standard	MSRP	+.005"	MSRP	+.010"	MSRP
103" Forged, 5.2cc pop-up dome	1.083"	43/8"	106-0432	\$366.71	106-0433	\$366.71	106-0434	\$366.71



S&S' $4\frac{1}{8}$ " and 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.

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.

LACEMENT PARTS FOR PISTONS

REPLACEMENT CHROMOLY FACED PISTON RINGS

Bore	Standard	MSRP	+.005"	MSRP	+.010"	MSRP	+.020"	MSRP	+.030"	MSRP
4.425"	940-0043	\$131.14	_	_	_	_	940-0044	\$131.14	_	_
41/8"	940-0014	\$41.97	_	_	940-0012	\$41.97	940-0013	\$41.97	940-0017	\$131.14
3%"	94-1290X	\$36.97	94-1294X	\$36.97	94-1291X	\$36.97	_	_	_	-
3.927"	106-3709A	\$41.12	_	_	106-4422A	\$43.67	_	_	_	_
3.937"	940-0032*	\$49.12	_	_	_	_	_	_	-	_
new 4"	940-0056	\$69.95	_	_	_	_	_	_	_	_

^{*}Only includes one set of rings.

REPLACEMENT PISTON WRISTPINS

Description		Part No.	MSRP
Wristpin	For 4.425" Pistons	940-0037	\$10.93
	For 4 1/8", 3 7/8", 3.927" Pistons	106-1052	\$21.97
	For 3.937" Pistons	940-0033	\$21.38
	For 4" Pistons	940-0057	\$44.95

REPLACEMENT PISTON KEEPERS

Description	Part No.	MSRP	
	each	94-9278-S	\$2.46
Keeper	2 pack	94-9278-2	\$4.39
	4 pack	106-2304	\$4.34
Keeper for 4.425"	each	94-9278-S	\$2.46
Keeper for 3.937" & 4"	2 pack	940-0034	\$12.20

39

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
- 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 88 to 100 cu inches
- 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



S&S® POWER PACKAGE KIT

Fitment	Finish	Cam	Drive	Part Number	MSRP
2007-'17 except '17 touring	Silver	585CE	Chain	330-0580	\$2,750.00
2007-'17 except '17 touring	Silver	585GE	Gear	330-0581	\$2,850.00
2007-'17 except '17 touring	Black	585CE	Chain	330-0582	\$2,750.00
2007-'17 except '17 touring	Black	585GE	Gear	330-0583	\$2,850.00

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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

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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 H–D® A–Grind

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.

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 low-end 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.

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 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. Bolt-in. 583 cams are not recommended for enginess having comression ratios greater than 10.1:1.

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.

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.



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.

CAMSHAFT OVERVIEWCON'T

SPECIFICATIONS OF S&S® CHAIN DRIVE AND GEAR DRIVE CAMSHAFTS FOR 2007-17 BIG TWIN (EXCEPT 2017 TOURING MODELS)

		Valve Timing	Valve Timing (open/close) Valve Dur		Valve Duration		Cent	erline	Lift	@ TDC	APPLICATION	CROSS REFER	ENCE CHART
Cam Name	Bolt-In	Intake Open BTDC/ Close ABDC	Exhaust Open BBDC/ Close ATDC	Intake	Exhaust	Valve Lift	Intake	Exhaust	Intake	Exhaust	H-D® Screamin' Eagle®	Andrews®	Most Fitting Application
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®
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
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

^{**}551 cams are not recommended with compression ratio of 10:1 or higher.

S&S® CAMSHAFT SPECIFICATIONS

	Valve T	Valve Timing		Valve Duration		Valve Lift		Lobe Center Line		Valve Lift @ TDC	
Cam Name	Intake	Exhaust						Exhaust	Intake	Exhaust	
	Open BTDC/Close ABDC	Open BBDC/ Close ATDC	Intake	Exhaust	Intake	Exhaust	Intake				
OES	-9°/25°	42°/-3°	196°	219°	.474"	.474"	107°	112.5°	.087"	.110"	
MR103	13°/33°	50°/22°	226°	252°	.585"	.585"	100°	104°	.172"	.177"	
HP103	20°/49°	45°/26°	249°	251°	.575"	.575"	102.7°	101.5°	.199"	.206"	
635 H.O.	19.5°/43.5°	58.5°/37.5°	243°	276°	.635"	.635"	102°	100.5°	.186"	.284"	



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

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.



106-5737

S&S GEAR DRIVE CAMS FOR 2007-'17 BIG TWIN MODELS (EXCEPT 2017 TOURING MODELS)

		EASY START CAMS						STANDARD CAMS				
Cam Name	Complete Kit*	Complete Kit**		Cams w/Inner Gears [†]				Complete Kit**		Cams w/Inner Gears†		
	Stock Oil Pump	MSRP	Stock Oil Pump	MSRP	S&S Gear Oil Pump	MSRP	Stock Oil Pump	MSRP	Stock Oil Pump	MSRP		
510	_	_	-	-	_	_	33-5266	\$758.32	33-5246	\$485.42		
551	106-5737	\$857.01	106-5736	\$584.60	_	_	106-4868	\$758.32	106-4870	\$485.42		
557*	330-0057	\$857.01	330-0056	\$584.60	_	_	330-0109	\$729.95	_	_		
570	106-5221	\$857.01	106-5220	\$584.60	_	-	33-5267	\$758.32	_	_		
583	106-5811	\$857.01	_	-	_	_	330-0111	\$729.95	330-0112	\$464.95		
585	106-5225	\$857.01	106-5224	\$584.60	330-0145	\$626.36	33-5268	\$758.32	33-5248	\$464.95		
625	106-5229	\$857.01	106-5228	\$584.60	_	-	33-5269	\$758.32	_	_		
640	106-4850	\$857.01	106-4849	\$584.60	330-0144	\$626.36	33-5270	\$758.32	33-5250	\$464.95		
675	106-5741	\$857.01	106-5740	\$584.60	_	-	330-0113	\$758.32	330-0114	\$464.95		
MR103	330-0303	\$857.01	330-0302	\$584.60	_	_	_	_	_	_		
HP103	330-0354	\$833.21	330-0353	\$568.36	_	_	330-0350	\$737.26	330-0349	\$471.93		
635 H.O.	330-0339	\$833.21	330-0338	\$568.36	330-0369	\$626.36	330-0335	\$737.26	330-0334	\$471.93		

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.



106-6068

INSTALLATION KIT FOR S&S GEAR DRIVE CAM*

Models	Part No.	MSRP
2006 Dyna® and 2007-'17 big twins, except 2017 touring models	106-6068	\$48.09

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.



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

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.

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Appendix & Index

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

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

(EXCEPT 2017 TOURING MODELS)

Cam Name	Standard	MSRP	Easy Start	MSRP
0ES	330-0293	\$328.09	_	_
510	106-4380	\$328.82	_	_
551	106-4858	\$328.82	106-4947	\$428.00
557*	330-0105	\$314.95	330-0053	\$428.00
570	106-4381	\$328.82	106-5234	\$428.00
583	330-0106	\$328.82	106-5807	\$428.00
585	106-4382	\$328.82	106-5233	\$428.00
625	106-4383	\$328.82	106-5239	\$428.00
640	106-4399	\$328.82	106-5235	\$428.00
MR103	330-0470	\$319.68	330-0299	\$416.11
HP103	330-0343	\$319.68	330-0346	\$416.11
635 H.O.	330-0328	\$319.68	330-0331	\$416.11

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

EXCLUSIVE EXCLUSIVE EAST START CAMS EAST START TOPPOS



106-4947

REPLACEMENT INSTALLATION KIT FOR S&S CHAIN DRIVE CAM*

Models	Part No.	MSRP
2006 Dyna® and 2007-'17, except 2017 touring models	106-5929	\$36.43

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

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



Fuel injection tuning required.

551 & 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 REPAIR PARTS





33-4160Z



REPLACEMENT GEARS* FOR 2006 DYNA® AND 2007-'17 MODELS EXCEPT 2017 TOURING MODELS

LACEL I ZUTA TUUTIING MODELS	<u>′ </u>		
Description		Part No.	MSRP
Outer cam drive gear only		33-4269	\$179.51
Front inner cam gear		330-0593	\$120.95
	Standard	330-0593	\$120.95
Rear inner cam gear	Undersized	330-0594	\$120.95
	Oversized	330-0595	\$120.95
	Standard	33-4160	\$93.33
	Undersized	33-4160X	\$102.76
Pinion Gears	Double Under	33-4160XX	\$102.76
	Oversized	33-4160Z	\$102.76
	Double Over	33-4160ZZ	\$102.76

^{*}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 No.	MSRP
2006 Dyna® and all 2007-'17 models, except 2017 touring models	33-4285	\$501.06

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

OUTER CAM GEAR DRIVE KIT

Fitment	Part No.	MSRP
2006 Dyna® and all 2007-'17 models, except 2017 touring models	33-4268	\$280.78

Includes 2 outer gears and hardware

REPLACEMENT HARDWARE FOR OUTER CAM GEAR DRIVE

Description	Part No.	MSRP
Hardware Kit for 2006 Dyna® and all 2007-'17 models, except 2017 touring models	33-4271P	\$9.81
Replacement Key for 2006 Dyna® and all 2007-'17 models, except 2017 touring models	106-1348	\$3.21

CAM NEEDLE BEARINGS ASSEMBLIES

Description		Part No.	MSRP
Inner Cam Bearing	each	31-4199-S <i>9215</i>	\$16.03
	2 pack	31-4499 <i>9215</i>	\$27.50

All reference to H-D® 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 H-D® part number shown.

CAM CHEST UPGRADE GFAR OR CHAIN DRIVE

FITMENT

• 2007-'16 Harley-Davdison[®] big twins & 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
- Improved engine performance higher lift and optimized cam timing
- Better, more consistent oil pressure



CHAIN DRIVE CAM CHEST UPGRADE KIT FOR 2007-UP BIG TWIN & DYNA® MODELS

Fitment	Cam	Part #	MSRP
	551CE	330-0544	¢1.740.05
	Easy Start	330-0344	\$1,749.95
	583CE	330-0545	\$1,749.95
2007-up bt and 2006 Dyna models	Easy Start	330-0343	\$1,749.95
2007-up bt and 2000 Dyna models	585CE	330-0546	\$1,749.95
	Easy Start	330-0340	\$1,749.95
	585C	220 0552	¢1 650 05
	Standard	330-0553	\$1,659.95

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

GEAR DRIVE CAM CHEST UPGRADE KIT FOR 2007-UP BIG TWIN & DYNA® MODELS

Fitment	Cam	Part #	MSRP	
2007-up bt and 2006 Dyna Models	510G	310-0814	\$1,818.00	
	Standard	310-0014		
	551GE Easy Start	310-0815	\$1,908.90	
	585GE Easy Start	310-0816	\$1,908.90	

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA

use on any EPA pollution controlled motor vehicle.

HYDRAULIC CAM CHAIN TENSIONER KIT

FITMENT

- 2007-'17 except 2017 Touring
- 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

ON ANY

Fitment	Part #	MSRP
2007-'17 except 2017 Touring	330-0518	\$132.60

REPLACEMENT PARTS

Description	Part #	MSRP
Tensioner,Asm,Inner,Body,Cam Chain	330-0519	\$68.49
Tensioner, Assembly, Outer, Body, Cam Chain	330-0520	\$68.49
Tensioner Shoe,Chain,Camshaft	330-0521	\$23.31



legal

for sale

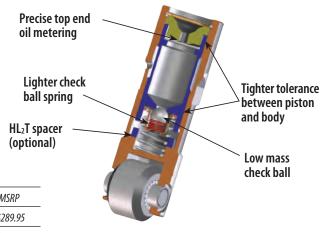
PREMIUM HIGH PERFORMANCE TAPPETS

FITMENT

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

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
- Low mass, bearing grade, silicon nitride check ball and lighter check ball spring - enhances fast pump up and quiet operation
- 100% tested to ensure that leak down and top end oil flow are within specification





S&S PREMIUM HIGH PERFORMANCE TAPPETS

Tappet Sets	Part No.	MSRP		
Set of 4 tappets with HL₂T kit	330-0174	\$289.95		
Set of 4 tappets without HL₂T kit	330-0175	\$269.95		

HIGH PERFORMANCE HYDRAULIC TAPPETS

FITMENT

- 1999-'17 big twins
- S&ST-Series engines



S&S® HIGH PERFORMANCE HYDRAULIC TAPPET SETS

Description		Part No.	MSRP
Standard Tappet	Without HL ₃ T Kit	33-5350	\$129.95
Set (4)		18538-99A, 18538-99B, 18538-99C	7127.73

^{*}S&S tappets with HL₃T Kit require the use of adjustable pushrods.

HYDRAULIC LIFTER LIMITED TRAVEL SPACER (HL₂T)

FITMENT

- Stock 1999-'17 big twin
- All S&S tappets

FEATURES AND BENEFITS

- Designed to limit the range of travel of the hydraulic tappet plunger Easier starting
- More horsepower at higher RPMs

S&S® HYDRAULIC LIFTER LIMITED TRAVEL SPACER

Description	Part No.	MSRP
	33-5338 \$20.3	
(fits tappets with .612" I.D.)	18526-89A	720.00

Adjustable pushrods must be used with HL₃T kit in order to obtain proper plunger position. If replacing lifters in a 1999-'02 with H-D® #18538-99B, order S&S part #33-5338.

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



S&S® TAPPET COVER KITS

Finish	Part No.	MSRP
Polished	33-5601	\$198.30
Chrome	106-3883	\$208.74
Chrome 43%" style	330-0281	\$202.96

REPLACEMENT PARTS FOR TAPPET COVERS

Descriptions		Part No.	MSRP
Gasket	each	33-5303-S 18635-99B	\$1.69
Gasket	2 pack	33-5303-2 18635-99B	\$3.95
Tappet Cover Gasket 4 %" style	each	330-0282	\$4.37
Caraum Hat washer 7ins	each	50-0092-S 4741A	\$1.31
Screw w/flat washer, Zinc	4 pack	50-0092P 4741A	\$3.88
Screw, Chrome	each	50-0482	\$2.91
Washer, Flat, Chrome	each	50-7017	\$1.03

All reference to H-D® 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 H- D^{\otimes} part number shown.

TIME-SAVER ADJUSTABLE PUSHRODS

FITMENT

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

FEATURES AND BENEFITS

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

S&S® TIME-SAVER ADJUSTABLE PUSHRODS

Description	Part No.	MSRP
Pushrod Set	930-0053	\$150.76



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 box not needed
- Perfect for S&S HL₂T
- No threads on wrench flats

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.



S&S® QUICKEE ADJUSTABLE PUSHRODS

Description	Part No.	MSRP
Pushrod Kit (includes chrome pushrod covers, o-rings & cover keepers)	106-6051	\$224.95
Pushrods Only*	93-5122	\$159.95
Special Order	93-5135**	Call for Pricing

Longer keepers are required for taller than stock engines. page 47 of this catalog for pushrod cover keepers.

STANDARD ADJUSTABLE PUSHRODS

FIIMENI

- 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
- Perfect for HL₂T kits

KIT CONTENTS

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



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

Displacement	Engine Height	Cylinder Length	Pushrod Kit	MSRP	Pushrods Only	MSRP	Pushrod Covers	MSRP	Cover Keepers	MSRP
96", 103", 106"	Stock	4.937"	93-5095	\$187.88	93-5096	\$115.35	106-1340	\$146.12	93-4100	\$29.33
124"	+.096"	5.013"	_	_	93-5098	\$115.35	106-1340	\$146.12	93-4115	\$58.29
143"	+.2875"	5.057"	930-0103	\$135.51	_	_	_	_	_	_
Special Order	Specify	Specify	_	_	93-5102**	Call for Pricing	_	_	93-4109*	Call for Pricing

^{*1984-&#}x27;99 style pushrod covers are required for access to the Quickee Adjustable Pushrod adjusters in 2007-'12 big twins, page 47 of this catalog for pushrod covers.

^{**}Special Order: Download the Special Order Form at sscycle.com/soforms

NON-ADJUSTABLE PUSHRODS

FITMENT

• 2007-'17 Harley-Davidson® Twin Cam 96™ and 103™ big twin enginess, except 2017 touring models



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

S&S® NON-ADJUSTABLE PUSHRODS

Description	Part No.	MSRP
Pushrods Only	930-0046	\$56.83

PUSHROD COVERS & RELATED PARTS

PUSHROD REPLACEMENT PARTS

T OSHROD REFERCEMENT FARTS		
Description	Part No.	MSRP
Pushrod Cover Kit (includes top and bottom covers, cover cap, cover spring, spring washer, and o-rings for four pushrods)	106-1340	\$146.12
Top Cover USA, 2,3, TÜV, 1,2,3,6,7	93-4016 17935-66T, 17935-79B	\$12.23
Bottom Cover USA 1,2,3 TÜV 1,2,6,7	93-4015 17938-83	\$12.75
Cover Cap (USA _{1,2,3} (ÜV) _{1,2,3,6,7}	93-4017 17945-36B	\$8.07
Cover Spring (USA),2,3 (UV),2,3,6,7	93-4018 17947-36	\$1.09
Cover Cap Washer	50-7131 6762B	\$1.15
Pushrod O-ring Kit (includes top, middle, and bottom o-rings for four pushrods)	93-4022 11293, 11157, 11101, 11190	\$6.98
Top O-ring	50-8039	\$1.68
Middle O-ring	50-8038 11132A	\$1.05
Bottom 0-ring	50-8037 11145A	\$1.05









93-4017 93-4018

50-7131





50-8038

S&S® PUSHROD COVER KEEPER SETS FOR 2007-'17 BIG TWINS

Length	S&S Tubes	Part No.	MSRP
2.400"	All stock height TC 96/103	93-4070 17950-48	\$29.33
2.500"	96", 100", 117", 103", 106" HSU	93-4100	\$29.33
2.600"	124"	93-4101	\$29.33
2.800"		93-4115 17950-86	\$29.33
2.900"		93-4102	\$29.33
3.000"		93-4103	\$29.33
3.100"		93-4104	\$29.33
3.200"		93-4105	\$29.33
3.330"		93-4106 17949-40, 17950-66	\$29.33
3.500"		93-4107	\$29.33
3.625"		93-4108	\$29.33
4.250"*		93-4109	\$58.29



93-4101

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.

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

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% "diameter stemmed valves and S&S collars only. Pro Stock spring kits include keepers for valves with 1\(\frac{1}{2}\)2" or \(\frac{5}{6}\)" 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

- These springs can be set up for use with S&S 675 cams
- 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"



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

Description	Part No.	MSRP
.660" Lift Triple Valve Spring	90-2079	\$284.95
.720" Lift Triple Valve Spring	90-2080	\$283.95

REPLACEMENT PARTS

Description		Part#	MSRP
Top collar - titanium .660"/.720" lift		90-2155A	\$42.90
Bottom collar660"/.720" lift	each	90-2090	\$10.14
Valve keeper 5/16" valve stem SA	each	90-2153A	\$5.04
	each	90-2086	\$1.05
Shim015"	5 pack	50-7161	\$4.21
China 020"	each	90-2087	\$1.47
Shim030"	5 pack	90-2198	\$6.76



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

Description	Part No.	MSRP
Spring,Kit,Valve,.650,84–04bt/xl	900-0050	\$181.25

/& Appendi

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 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



S&S®.650" LIFT VALVE SPRING KIT

Description	Part No.	MSRP
2005-'17 big twins (7mm stems) except 2017 touring models	106-5909	\$188.50



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 Height	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

S&S® STREET PERFORMANCE .585" VALVE SPRING KIT

Description	Part No.	MSRP
2005-'17 big twins (7mm stems) except 2017 touring models	900-0594	\$132.56
All S&S Super Stock Heads	900-0595	\$122.36
S&S CNC Ported Heads	900-0596	\$132.56



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 34" 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



S&S® FORGED ROLLER ROCKER ARM KIT

DESCRIPTION		PART NO.	MSRP
2 front and 2 rear rocker arms	1.625:1	900-4065A 🕬	\$500.02
	1.725:1	900-4098A	\$558.48

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.



S&S® STANDARD FORGED ROCKER ARM KIT

Description		Part No.	MSRP	
2 front and 2 rear rocker arms	1.625:1	900-4119A 🗺	\$258.38	

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

S&S® ROCKER ARM SHAFTS

Description	Part No.	MSRP				
Set of 4	90-4036 17611-83B	\$36.68				
Individual	90-4006 TEA TÜV,1,2,4,5,6,7	\$11.02				
	17611-83B	7.1102				

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



REPLACEMENT PARTS FOR FORGED ROCKER ARMS

Rocker Arm Type	Description	Part No.	MSRP
Dollar	Front exhaust or rear intake rocker arm	900-4065FA USA _{1,2,3} ÜV _{2,3,4,5,6,7}	\$150.28
Roller	Rear exhaust or front intake rocker arm	900-4065RA (\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex{	\$150.28
	Front exhaust or rear intake rocker arm	900-4119FA 🕬 17375-83A	\$77.96
Standard	Rear exhaust or front intake rocker arm	900-4119RA 🍑 17360-83A	\$77.96
Roller	Rebuild kits (rebuilds 4 rocker arms)	90-4104	\$125.84
Roller & Standard	Rocker arm bushing (¾" long)	90-4014	\$3.47



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.

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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 4%" 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 41/8" bore and larger (special order only)
- S&S SB-Series 4½" bore and larger engines for 1986-'03 Sportster® models (special order only)
- Old style B2 replacement heads still available by special order
- 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 readv
- Available in Wrinkle Black (WBlack) or Silver Powder coat

OPTIONS BY SPECIAL ORDER

- CNC ported intake and exhaust ports more air, more power!
- wo-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
- 4½" to 4¾" bore sizes
- Stock 1999-'17, 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



900-0458

S&S B2 HEADS WITH STOCK BOLT PATTERN

Finish	Part No.	MSRP
Silver Powder Coat	900-0450	\$2,077.64
WBlack Powder Coat	900-0458	\$2,077.64

*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*	Call for Pricing
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^{*}Download the Special Order Form at sscycle.com/soforms



ADDITIONAL PARTS REQUIRED

Product Description		Part No.	MSRP
Special 41/8" Bore	Standard	92-1580	\$490.78
Pistons & Ring Set	+.010"	92-1581	\$490.78
Special Length Pushrods	For 124" engines	93-5106	\$112.16
(+.250")	Stock height engines	93-5098	\$115.35
Intake Manifold	Carbureted engines	16-3629*	\$139.95
Intake Manifold Flange Kits	All B2 heads 16-0250		\$139.95
	B2 to stock header	550-0217	\$108.25
Exhaust Adaptor Kit	B2 to exisiting 2" header	550-0216	\$73.37
	Stock & 2" header	550-0218	\$179.58

^{*}Download the Special Order Form at sscycle.com/soforms

REPLACEMENT PARTS: PAGE 86

OTES

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.

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.

SUPER STOCK® CYLINDER HEADS WITH STOCK BOLT PATTERN

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 H-D® heads)
- 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 (WBlack), 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	nfiguration 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 pop-up piston								



106-3233

900-0666

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

Description	Chamber Volume	Manifold** Surface	Compression Release Machining	Springs	Finish	Part No.	MSRP
2006-'17 big twins	79cc		•	.650" lift	Silver	106-3227	\$1,283.15
except 2017 touring models	/900		•	.650" lift	WBlack	106-3233	\$1,283.15
2006-'17 big twins	89сс		•	.650" lift	Silver	106-3255	\$1,283.15
except 2017 touring models	89cc		•	.650" lift	WBlack	106-3240	\$1,283.15
		+.032"	•	.650" lift	Silver	106-4278	\$1,349.95
	91cc	Stock		.650" lift		900-0344	\$1,349.95
2006-'17 big twins, 2008-'16 touring models		+.032"		.650" lift		900-4278	\$1,349.95
2000 10 10 11111 1110 1110		+.032"	•	.650" lift		106-3249	\$1,283.16
S&S 124" Hot Set Up Kits	01	Stock		.650" lift	WBlack	900-0349	\$1,349.95
	91cc	. 022"		(FO!! I:f4		900-3249	\$1,349.95
		+.032"		.650" lift	Stone Gray	900-0666	\$1,349.95

^{**}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. 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

* Special Order: Download the Special Order Form at sscycle.com/soforms

90-1060* Call for Pricing

S&S® TOP END GASKET KITS FOR 1999-'17 BIG TWINS (EXCEPT 2017 TOURING MODELS)

37/8" & 3.927" Bore	MSRP	4" Bore	MSRP	S&S 41/8" Bore (Graphite)	MSRP	Stock 41/8" Bore (Layered Steel)	MSRP
910-0465	\$67.10	90-1913	\$42.97	90-1910	\$46.53	90-1914	\$88.07

Includes a set of head and base gaskets, exhaust gaskets and o-rings.

79cc heads

When 79cc stock compatible heads are used with stock H-D® 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 head:

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 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 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-'15, except 2008-'15 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 S&S Throttle Hog 58mm throttle body/manifold for 2008-up touring models with Electronic Throttle Control (ETC). These engines can be tuned with the Dynojet Power Vision Flash Tuner

REPLACEMENT PARTS: SEE PAGE 88

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 57. 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-thanstock 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 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



- 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)



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

S&S® CNC PORTING SERVICE

Fitment	Part No.	MSRP
1999-2017 big twins (except Twin-Cooled™ & 2017 touring models)	106-5880	\$949.95



106-5880





S&S® CNC PORTING SERVICE SPECIFICATION COMPARISON

Heads VALVE SIZE		Max Valve Lift	MAX TDC LIFT		PORT FLOW		Chamber	
neaus	Intake	Exhaust	Max valve Lift	Intake	Exhaust	Intake	Exhaust	Volume
Stock	1.805"	1.575"	.585"	_	-	216.2 cfm	191.8 cfm	85сс
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.

Uande					COMPF	RESSION RATIO			
Heads	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. See page 73 for information on the Dynojet® Power Vision® Tuner.

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

Must use Screamin' Eagle® high flow injectors, H-D #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. See page 57.

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HEAD BOLTS WITH WASHERS

S&S® HEAD BOLTS

Bolt Length w/Washer	Washer Thickness	Head Bolt w/Washer	MSRP	Washer Only	MSRP			
1.690"	.250"	93-3028 🖤	\$9.31	50-7091	\$1.63			
1.840"	.100"	93-3027	\$9.31	50-7088	\$2.00			
1.920"	.250"	93-3036	\$14.31	50-7091	\$1.63			
2.070"	.100"	93-3031	\$14.31	50-7088	\$1.63			
2.220"	.250"	93-3038	\$14.31	50-7091	\$1.63			
2.370"	.100"	93-3032	\$14.31	50-7088	\$1.63			
3.134"	.250"	93-3029 🐠	\$14.31	50-7091	\$1.63			
3.284"	.100"	93-3030	\$14.31	50-7088	\$1.63			
3.501"	.250"	93-3037*	\$14.31	50-7091	\$1.63			
3.651"	.100"	93-3033* ឃ	\$14.31	50-7088	\$1.63			
_	.150"	_		50-0418-S	\$1.52			
* Drilled 9 tenned deeper to allow chartening for custom lengths								



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

Engine Displacement	Stroke	Cylinder Length	Cylinder Head Type	Short Bolt w/Washer	MSRP	Long Bolt w/Washer	MSRP	Head Bolt Kit	MSRP
Stock 96 and 103	43/8"	4.937"	Stock H-D®	93-3031	\$14.31	93-3030	\$14.31	93-3014	\$112.14
117" Big Bore	43/8"	4.878"	S&S®	_	_	93-3030	\$14.31	93-3070	\$112.14
124" Big Bore Stroker	45/8"	5.013" or	Stock H-D®	93-3038	\$14.31	93-3037	\$14.31	93-3016	\$112.14
		5.004"	S&S®	_	_	93-3037	\$14.31	93-3071	\$112.14

CALCULATING CUSTOM HEAD BOLT LENGTH SEE INSTRUCTIONS IN THE APPENDIX: PAGE 529

All reference to H-D® 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 H-D® 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.



50-0333

S&S® CHROME HEAD BOLT COVERS

Description	Part No.	MSRP
Set of 4, for S&S Head Bolts only	50-0333	\$65.02

DIE-CAST ROCKER COVERS

FITMENT

• 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

NOTES

S&S® DIE-CAST ROCKER COVER KIT

Description	Part No.	MSRP
Chrome	90-4110 USA3 UV _{1,2,6}	\$724.93

REPLACEMENT PARTS: PAGE 91

ANY JOB IS EASY WITH THE RIGHT TOOLS S&S ROCKER COVER WRENCH SET, PAGE 495 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" 0.D.

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

90-4110

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



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

FEATURES & BENEFITS

- 2002–'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
- 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!

S&S® THROTTLE HOG CABLE OPERATED THROTTLE BODIES FOR 2006-2017 BT

Year	Size (mm)	Engine Fitment	Manifold Size	Part Number	MSRP
		96", 103", 106", 107", 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	\$699.95
	58	S&S T-Series 111" Long Block Engines**	398	170-0347	\$699.95
		S&S T-Series 124" Engines with S&S bolt pattern, and 124" Hot Set Up Kit® (w/stock or standard S&S heads)**	417	170-0345	\$699.95
2006-2017 bt	66	96", 103", 106", 107", 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	\$699.95
		S&S T-Series 111" Long Block Engines**	398	170-0350	\$699.95
		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 after 2013)	417	170-0348	\$699.95

^{**}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 61

REPLACEMENT FLANGE KITS





• 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

58MM 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)
- Screamin' Eagle® Pro high flow injectors H-D® PN 27796-08
- Intake Manifold Flange kit for 2006 -up PN 160-0168 (includes seals)
- For B2 head applications see page 51
- A performance motorcycle tuning module. S&S recommends Dynojet® Power Commander®, Dynojet Power Vision®, or Screamin' Eagle Super Tuner

SOLD ON EXCHANGE ONLY – HERE'S HOW IT WORKS

Your S&S® dealer sends your stock throttle body to S&S Cycle, Inc

58mm

- S&S tests your incoming throttle body and its electrical components
- S&S transfers your functional electrical components to your new S&S Throttle Hoq
- (along with your original throttle body)
- Your new Throttle Hog will typically be shipped within 2–3 days of receipt at S&S.

S&S® THROTTLE HOG THROTTLE BODIES AND AIR CLEANER KITS

Size	Throttle Hog Throttle Body	MSRP	Stealth Air Cleaner Kits***	MSRP	Backplate only*	MSRP
58mm	160-0034	\$466.93	170-0164	\$152.18	170-0167	\$61.13
66mm	160-0010	\$467.39	170-0165	\$152.18	170-0168	\$61.13
70mm B2	160-0112	\$864.27	170-0263	\$179.73	170-0247**	\$65.71

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

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B3 applications found on page 30

WARRANTY:

S&S THROTTLE HOG THROTTLE BODIES

S&5° 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.



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66mm

Rig Twins

70mm

- a non-functional unit cannot be used and will be returned
- The complete Throttle Hog is tested and shipped to your S&S dealer

We have calibrations: secile com/software/power

^{**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. Be creative and fabricate your own cover, or see page 61 for S&S Stealth covers.

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



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

Engine Displacement	Cylinder Length	Manifold Size	Part No.	MSRP
96", 103" & 106" (S&S engines with stock bolt pattern)	4.937"	405	16-5134	\$166.46
124" Hot Set Up Kit® (w/stock or standard S&S heads) **	5.004"	417	16-5139	\$166.46
124" Hot Set Up Kit® (w/S&S +.032" heads only)**	5.004"	405	16-5134	\$166.46
111" S&S T-Series Long Block Engines	4.754"	398	16-5136	\$154.99
117" Hot Set Up Kit®	4.878"	405	16-5134	\$166.46
124" S&S T-Series Engines, S&S bolt pattern	5.013"	417	16-5139	\$166.46
Special Order (All Styles)	Specify	389-428	16-5142*	Call for Pricing

^{*} Special Order: Download the Special Order Form at sscycle.com/soforms

NOTES

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 H-D® intake manifold flanges pn 26993-06 (1 pack).

^{**}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 58mm

S&S 52mm

Appendix & Index

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-'16 EFI big twins (except 2008-up touring models with electronic throttle control)

FEATURES AND BENEFITS

- Excellent performance
- Recommended tuning products:
 - S&S VFI
 - Dynojet® Power Vision Tuner
- Cruise control compatible with no extra bracket



OPTIONS

- 52mm
- 58mm

....

Stock

KIT CONTENTS

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

S&S® SINGLE BORE EFI THROTTLE BODY KIT

Description	Part No.	MSRP
52mm Kit including Fuel Rail Kit	17-5070	\$652.60
58mm Kit including Fuel Rail Kit	106-4408	\$652.60

NEW & IMPROVED!

Cable-Operated Throttle Hogs page 56

MAKE MORE POWER!

S&S° Stealth Air Cleaners on page 61 S&S Air Cleaner Kits for on page 64



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)

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50-STATE COMPLIANT AIR CLEANER KITS EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# D-355-21





S&S STEALTH AIR CLEANER KITS*

Application	Fuel System	Part No.	MSRP
2001-'16 HD® Big Twin (except Throttle By Wire and CVO® Models)	Stock EFI Delphi®	170-0300B	\$135.51
2008-'16 HD® Touring Stock-Bore and '16 Softail® (except Tri-Glide® & CVO® Models)	Throttle By Wire	170-0301B	\$135.51

^{*}These kits do not contain covers — use your stock Twin Cam 88®, 96™ or 103™ cover or choose an S&S cover

SEE PAGE 62 FOR COVER OPTIONS
SEE PAGE 65 FOR THE
RUSHMORE BACKPLATE ADAPTOR

CLASSIC TEARDROP AIR CLEANER KITS FOR STOCK EFI



	Fitment	Fuel System	Finish	Stock EFI, With 96 & 103 Engines	MSRP
	2001-'16 HD® Big Twin Models	Stock EFI Delphi®	Chrome	170-0303B	\$250.85
	(except Throttle By Wire and CVO® Models)		Gloss Black	170-0304B	\$250.85
	2008-'16 HD® Touring Stock-Bore and	Throttle By Wire	Chrome	170-0305B	\$250.85
	'16 Softail® Models (except Tri-Glide® & CVO® Models)		Gloss Black	170-0312B	\$250.85

SEE PAGE 64 FOR COVER OPTIONS



S&S SINGLE BORE TUNED INDUCTION SYSTEM KITS

Fitment	Fuel System	Finish	Part No.	MSRP
2001-'16 Harley-Davidson® Big Twin (except Throttle By Wire and CVO® Models)	Stock EFI Delphi®	Chrome/Red Filters	170-0308B	\$469.80
2008-'16 HD® Touring Stock-Bore and '16	Throttle By Wire	WBlack/Red Filters	170-0309B	\$459.65
Softail ® (except Tri-Glide® & CVO® Models)		Chrome/Red Filters	170-0310B	\$587.25

SEE PAGE 63 FOR ACCESSORIES.

STEALTH AIR CLEANER KITS

FITMENT

• 1999-'16 model big twins

FEATURES AND BENEFITS

- For the rider who likes to go fast, but doesn't like to advertise
- Air directional stinger cone in the filter
- Use with your stock Harley-Davidson® Twin Cam 88®, 96™ or 103™ "football style" air cleaner cover
- Pre-filters are available See page 65
- Can also be used with any of several S&S designed covers. See page 62 High flow (1" taller) filter kit available –See page 65
- Backplate adaptor for Rushmore covers also available-See page 65



Fuel injection tuning is not required for this product.

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



S&S® STEALTH AIR CLEANER KITS*

D	Application	Fuel System	Part No.	MSRP
	1999-'06 HD® Carbureted Big Twins and 2007-'10 Softail® CVO® Models	Stock CV/EFI Delphi® (except '99 Softail® carb & Throttle by Wire)	170-0060	\$135.31
	2008-'16 HD® Tri-Glide and CVO® Stock-Bore Models	Throttle by Wire	170-0061	\$135.31

*These kits do not contain covers — use your stock Twin Cam 88®, 96™ or 103™ cover or choose an S&S cover



S&S® STEALTH AIR CLEANER KITS W/CHROME AIRSTREAM COVER

Application	Fuel System	Part No.	MSRP
1999-'06 HD® Carbureted Big Twins and 2007-'10 Softail® CVO® Models	Stock CV/EFI Delphi® (except '99 Softail® carb & Throttle by Wire)	170-0056	\$272.30
2008-'16 HD® Tri-Glide and CVO® Stock-Bore Models	Throttle by Wire	170-0054	\$272.30



S&S® STEALTH AIR CLEANER KITS W/CHROME MUSCLE COVER

Application	Fuel System	Part No.	MSRP
1999-'06 HD® Carbureted Big Twins and 2007-'10 Softail® CVO® Models	Stock CV/EFI Delphi® (except '99 Softail® carb & Throttle by Wire)	170-0106	\$263.86
2008-'16 HD® Tri-Glide and CVO® Stock-Bore Models	Throttle by Wire	170-0099	\$263.86

MUSCLE

	3&3 STEALIN AIR CLEANER KITS W/CHROME BUBBER-DISHED COVER					
G C	Application	Fuel System	Part No.	MSRP		
(0)	1999-'06 HD® Carbureted Big Twins and 2007-'10 Softail® CVO® Models	Stock CV/EFI Delphi® (except '99 Softail® carb & Throttle by Wire)	170-0104	\$225.66		
DODDED DICHED	2008-'16 HD® Tri-Glide and CVO® Stock-Bore Models	Throttle by Wire	170-0097	\$228.33		



S&S® SUPER STOCK® STEALTH AIR CLEANER KITS W/CHROME BOBBER-DOMED COVER

Application	Fuel System	Part No.	MSRP
1999-'06 HD® Carbureted Big Twins and 2007-'10 Softail® CVO® Models	Stock CV/EFI Delphi® (except '99 Softail® carb & Throttle by Wire)	170-0105	\$225.66
2008-'16 HD® Tri-Glide and CVO® Stock-Bore Models	Throttle by Wire	170-0098	\$225.66

BOBBER-DOMED

S&S® STEALTH AIR CLEANER KITS FOR S&S ENGINES

Fitment	Fuel System	Part No.	MSRP
T124LC 2008-'16 Touring Models	S&S 66mm Throttle Hog	170-0165	\$152.18
T111 2008-'16 Touring Models	S&S 58mm Throttle Hog	170-0164	\$152.18
1995-1999 S&S Super Stock Engines	S&S Single Bore VFI 52mm Throttle Bodies	170-0287	\$199.95
1995-1999 EFI big twins	S&S Single Bore VFI 58mm Throttle Bodies	170-0283	\$199.95
1999-2017 EFI big twins	S&S Single Bore VFI 58mm Throttle Bodies	170-0284	\$199.95
T124 1999-'06 bt (except '06 Dyna®) (Engines produced after 2013)	S&S E or G Carburetor	170-0058	\$135.31
T124 1999-'06 bt (except '06 Dyna®) (Engines produced after 2013)	Stock CV/EFI Delphi®	170-0060	\$135.31
T111 1999-'06 bt (except '06 Dyna®) (Engines produced after 2013)	S&S E or G Carburetor	170-0058	\$135.31
T111 1999-'06 bt (except '06 Dyna®) (Engines produced after 2013)	Stock CV/EFI Delphi®	170-0060	\$135.31

STEALTH AIR CLEANER KIT COVERS

FITMENT

• All S&S Stealth Air Cleaners

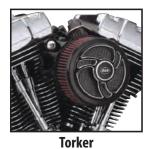


















Alisticalli

Muscle

Bobber-dished

S&S STEALTH COVERS

Style	Finish	Part No.	MSRP
Tri-Spoke	Gloss Black with Highlights	170-0210	\$141.78
Torker	Gloss Black with Highlights	170-0206	\$141.78
Air 1	Gloss Black with Highlights	170-0214	\$141.78
Airstream	Chrome	170-0118	\$142.80
Allstream	WBlack	170-0122	\$142.80
	Chrome	170-0121	\$137.66
Muscle	WBlack	170-0125	\$132.57
	WBlack with Highlighted Logo	170-0190	\$137.66
Bobber-Dished	Chrome	170-0119	\$96.83
DODDEI-DISHEG	WBlack	170-0123	\$96.83
Bobber-Domed	Chrome	170-0120	\$96.83
DODDET-DOTTIEU	WBlack	170-0124	\$96.83
111	Gloss Black with Highlights	170-0319	\$162.40
124	Gloss Black with Highlights	170-0321	\$162.40
143	Gloss Black with Highlights	170-0323	\$162.40

SINGLE BORE TUNED INDUCTION SYSTEM

FITMENT

 Single bore intake big twin models including Harley-Davidson® Tri Glide® models (except 2007-'08 FXDWG & 2009 FXDC/FXDF)

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





Molded black adaptor bracket for 2008-'15 touring models



Chrome billet adaptor bracket for 2007-'15 big twins, except touring

S&S SINGLE BORE TUNED INDUCTION SYSTEM KITS

Fitment	Fuel Delivery	Finish	Part No.	MSRP
2007-'15 big twins (except 2007-'08 FXDWG & 2009 FXDC/FXDF)	S&S Single Bore EFI	Chrome/Red Filters	170-0085	\$587.19
2007-'10 Softail® CVO® Models	Stock CV & EFI Delphi®	Chrome/Red Filters	170-0087	\$587.19
2008-'16 HD® Tri-Glide and CVO® Stock-Bore Throttle By Wire Models	Flacture wie Threattle Countrel	WBlack/Red Filters	106-2447	\$469.76
2008-'16 HD® Tri-Glide and CVO® Stock-Bore Throttle By Wire Models	Electronic Throttle Control	Chrome/Red Filters	106-2448	\$480.20
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.

ACCESSORIES

Description		Part No.	MSRP
Air Filter (al ld ith law-u)	Red	17-1020	\$54.00
Air Filter (each sold with clamp)	Blue	17-1023	\$54.00
At File Oil O D at	Red	106-1163	\$16.03
Air Filter Oil, 8 oz. Bottle	Blue	106-1164	\$16.03
Nulson Air Files Course	each	106-0247	\$26.17
Nylon Air Filter Cover	2 pack	106-0248	\$47.15



1

17-1020

17-1023

REPLACEMENT PARTS: PAGE 94

106-1163

106-1163

"Lane"

106-1164

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. S&S offers fuel injection tuning products: page 73.



CLASSIC TEARDROP AIR CLEANER KIT

FITMENT

• Single bore intake big twin models including Harley-Davidson® Tri Glide® 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



106-2091

CLASSIC TEARDROP AIR CLEANER KITS FOR STOCK CARB/EFI

Fitment	Finish	Stock EFI, With 110 Engines	MSRP
2008-'16 HD® Tri-Glide and CVO® Stock-Bore Models	Chrome	106-2091	\$250.50
1993-'06 HD® Carbureted Big Twins	Chrome	17-0450	\$250.50
and 2007-'10 Softail® CVO® Models	Gloss Black	170-0181A	\$263.90

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

Fitment	Style/Finish	52mm	MSRP	58mm	MSRP
Stock Harley-Davidson® heads, S&ST-Series Long block engines or S&S Heads for stock breathing system	Teardrop/Chrome	17-0498	\$250.50	106-4669	\$243.56
S&S Heads for 41/8" bore engines with vacuum breathing	Teardrop/Chrome	_	-	106-4668	\$243.56

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REPLACEMENT PARTS: PAGE 96



Fuel injection tuning is not required with this product but is highly recommended for best results. S&S offers fuel injection tuning products: page 73

TEARDROP AIR CLEANER COVERS

Style	Finish	Part No.	MSRP
Classis Taavdvan	Chrome	17-0378 📆,,	\$150.29
Classic Teardrop	Gloss Black	170-0384A	\$145.00
Slasher Teardrop	Chrome	17-0004	\$150.29
Nostalgic Teardrop	Polished	17-0071	\$174.13









17-0071

Appendix & Index

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

S&S® STEALTH BACKPLATE ADAPTOR FOR RUSHMORE COVER

Fitment	Part No.	MSRP
2014-2016 touring models	170-0261	\$43.71



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

S&S® PRE-FILTERS

Application	Part No.	MSRP
Standard	170-0193	\$24.28
1" Tall	170-0197	\$24.28



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

S&S® HIGH FLOW AIR FILTERS

Description	Fitment	Part No.	MSRP	
High Flow Air Filter Kit	Classic Teardrop	17-0045	\$55.55	
(includes spacers)	Stealth, 1" Taller	170-0127*	\$61.16	
4117 11 514 0 1	Classic Teardrop	106-4724	\$23.42	
1" Taller Filter Only	Stealth	170-0154	\$40.80	
Spacer	Classic Teardrop & Stealth, 1" Taller	50-5009-S	\$12.69	

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17-0045

STANDARD REPLACEMENT FILTERS

S&S® STANDARD REPLACEMENT AIR FILTERS

Description	Fitment	Part No.	MSRP
Standard Filter Only	Classic Teardrop	106-4722	\$21.86
	Stealth	170-0126	\$40.76

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 end caps.

FITMENT

• 1995-2016 touring models

FEATURES AND BENEFITS

- 7 horsepower gain*
- Stainless steel baffle construction and fiberglass packing
- Mufflers offered in show quality chrome or black ceramic finishes
- Two end cap styles Thruster or Tracer
- SAE J2825 Compliant Stainless Steel Louvered Baffles included

S&S® MK45 4.5" TOURING MUFFLERS W/END CAPS

Muffler Body Finish	End Cap Finish & Style	Part No.	MSRP
	Chrome Thruster	550-0620	\$699.95
Chuama	Black Contrast Cut Thruster	550-0619	\$699.95
Chrome	Chrome Tracer	550-0624	\$699.95
	Black Contrast Cut Tracer	550-0623	\$699.95
Black Ceramic	Chrome Thruster	550-0622	\$739.95
	Black Contrast Cut Thruster	550-0621	\$739.95
	Chrome Tracer	550-0626	\$739.95
	Black Contrast Cut Tracer	550-0625	\$739.95





550-0620



550-0619



550-0624



550-0623



550-0622



550-0621



550-0626



550-0625



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*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, and 2007-2016;

CVO MY 2000-2005, and 2009-2016

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

4" GRAND NATIONAL SLIP-ONS

FITMENT

- 1995–2016 Harley-Davidson® touring models with non-catalyst mufflers (except 2010 Road Glide® and Street Glide®)
- 2009-'17 Tri Glide® models with non-catalyst mufflers

FEATURES AND BENEFITS

- Show quality chrome or black ceramic finish
- Race inspired Grand National end cap, or all-steel slash-cut end
- High flowing perforated baffle design with removable dB reducer
- Bolts directly to stock header pipes or S&S Power Tune duals
- Aggressive sound and excellent horsepowerMade in the USA!



Grand National

S&S® 4" GRAND NATIONAL MUFFLERS FOR 1995-2016 BIG TWINS AND '17 TRIGLIDE® MODELS

Style/Finish	Part No.	
Grand National End Cap/Chrome	550-0689	\$499.95
Grand National End Cap/Black	550-0690	\$539.95
Slash-Down/Chrome	550-0691	\$459.95
Slash-Down/Black	550-0692	\$499.95

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, and 2007-2016; CVO MY 2000-2005, and 2009-2016

POWER TUNE DUAL HEADERS

FITMENT

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

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 black ceramic heat shielding with 220° coverage
- Updated styling to give the bike a modern look
- · Oxygen sensor bungs*
- Durable 16 gauge construction
- Spherical inlet design for improved sealing and exhaust gasket durability
- Hardware included to mount crossover pipe
- Compatible with all slip-on mufflers
- · Exhaust port gaskets included
- · Made in the U.S.A.

OPTIONS

- Available in chrome or black ceramic finish
- Change looks with chrome or black ceramic heat shield kits available separately

NOTES

Fuel injection tuning is not required with this product but is highly recommended for best results. S&S offers fuel injection tuning products: See page 73.

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*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, and 2007-2016;

CVO MY 2000-2005, and 2009-2016

SPOTOURING MUFFLERS

FITMENT

 Harley-Davidson® touring models with non-catalyst mufflers (except 2010 Road Glide® Custom and Street Glide® and all Tri Glide® models)

FEATURES AND BENEFITS

- One of a kind styling and sound
- Big block rumble, but not too loud when cruising down the road
- Significant torque gains in the mid-rang *just where you need it*
- Double-walled muffler construction with insulation that virtually prevents bluing
- Mufflers offered in show quality chrome or black ceramic finishes
- · Made in the USA

OPTIONS

- Chrome finish with black Xylan® or chrome alloy end cap
- Black ceramic finish with chrome alloy end cap
- Change end caps to change your look





S&S® POWER TUNE DUAL HEADERS

Fitment	Finish	Part No.	MSRP
1005 /00* his tooling	Chrome	550-0003	\$524.95
1995-'08* big twins	Black	550-0142	\$624.95
2009-'16 non-catalyst equipped touring and	Chrome	550-0004B	\$524.95
2009-'16 Tri Glide† models	Black	550-0143B	\$624.95

^{*}Has 18mm sensor fittings in the stock locations for 2007–'08 bikes. If not equipped with oxygen sensors, the ports can be used for tunina. Pluas are included if ports are not used.

REPLACEMENT HEAT SHIELD KITS

Fitment	Finish	Part No.	MSRP
1005 /00 his twins	Chrome	550-0707	\$299.95
1995-'08 big twins	Black	550-0708	\$349.95
2009-'16 non-catalyst equipped touring and	Chrome	550-0709	\$299.95
2009-'16 Tri Glide® models	Black	550-0710	\$349.95



†PIPE EXTENSION ADAPTOR KIT

Fitment	Finish	Part No.	MSRP
2009-'16 Tri Glide® models	Chrome	550-0088	\$94.95





S&S® SPO® TOURING MUFFLERS

Style	Part No.	MSRP
Chrome with black Xylan® coated end caps	550-0246A	\$779.95
Chrome with chrome end caps	550-0001A	\$779.95

^{*(}except 2010 Road Glide & Street Glide and all Tri Glide models)

REPLACEMENT END CAPS

Style	Part No.	MSRP
Chrome End Cap (set)	550-0106A	\$135.95
Black End Cap (set)	550-0247A	\$124.95

[†]Requires the Pipe Extension Adaptor Kit. See chart.



Mk45 EL DORADO EXHAUST SYSTEM

FITMENT

• 2009-'16 Touring Models

FEATURES AND BENEFITS

- Improved power and torque for greater rideability
- Available in Show Chrome or Black Ceramic Finish
- Two popular end cap styles available—Contrast Cut Thruster and Tracer
- 02 sensor location same as stock
- Includes adapters for wide band 02 sensorsStainless steel header construction
- Uses Two High Flow Cats to increase exhaust flow while providing just the right amount of back pressure for optimum torque Produces a deep throaty exhaust note throughout the RPM range
- Relocation of cats to mufflers reduces rider heat
- 50-State EPA and CARB compliant: EO #K-010





Black w/Tracer



Black w/Thruster





Chrome w/Tracer

50-STATE COMPLIANT EXHAUST SYSTEM FOR 2009-2016 TOURING MODELS*

Description	Finish	End Cap	Part #	MSRP
Exhaust System	Chrome	Contrast Cut Thruster	550-0677A	\$1,250.00
Exhaust System	Chrome	Contrast Cut Tracer	550-0678A	\$1,250.00
Exhaust System	Black	Contrast Cut Thruster	550-0679A	\$1,375.00
Exhaust System	Black	Contrast Cut Tracer	550-0680A	\$1,375.00

REPLACEMENT MUFFLERS FOR 50-STATE COMPLIANT SYSTEM

Muffler Kit	Chrome	Contrast Cut Thruster	550-0685A	\$850.00
Muffler Kit	Chrome	Contrast Cut Tracer	550-0686A	\$850.00
Muffler Kit	Black	Contrast Cut Thruster	550-0687A	\$920.00
Muffler Kit	Black	Contrast Cut Tracer	550-0688A	\$920.00



*Exempt from emissions tampering regulations under CARB EO# K-010

SLIP-ON PERFORMANCE MUFFLERS

FITMENT

• Harley-Davidson® Softail® and Dyna® big twins with non-catalyst mufflers

FEATURES AND BENEFITS

- Low restriction, high performance
- Cost-effective performance upgrade best horsepower/dollar ratio
- Maintains a smooth power curve while delivering excellent low and midrange torque makes adjustments to the fuel delivery system minimal and straightforward
- Show chrome finish

S&S® SLIP-ON PERFORMANCE MUFFLERS

Application	Slash-cut	MSRP	Tapered	MSRP
1995-'17 Harley-Davidson® Dyna® Models (except 2008-'17 Fat Bob®, 2010-'17 Wide Glide®, 2009-'16 CVO, & 2014-'16 Wide Glide)	106-5769	\$324.95	106-5770	\$324.95
2007-'17 Softail Standard, Heritage, Rocker Models - Shorty*	55-6041	\$389.95	55-6040	\$389.95
2007-'17 Softail Fat Boy and Deuce Models - Shotgun*	55-6043	\$389.95	55-6042	\$389.95
2007-'17 Softail Deluxe, Blackline, Cross Bones, and Slim Models - Shotgun*	55-6045	\$389.95	55-6044	\$389.95
2008-'17 Fat Bob®, 2010 -'17 Dyna® Wide Glide®*	106-6016	\$389.95	_	-

^{*}Not intended for motorcycles originally equipped with a catalyst.



55-6042 Tapered



106-6016 Slash-cut Style



55-6043 Slash-cut



Fuel injection tuning is not required with this product but is highly recommended for best results. S&S offers fuel injection tuning products: See page 73

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 catalyst.

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

California Dyna Models:

Fuel Injected MY 2006-2007 except CVO

49 State Dyna Models:

All fitments for MY 1995-2009 except for CVO MY 2007 and later

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.

Exhaust Noise Disclaimer: Unless noted, S&S exhaust components do not meet U.S. EPA noise standards and may be restricted to closed course competition use. Check local noise ordinances before use.

COMPRESSION RELEASES

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

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, page 55

S&S® COMPRESSION RELEASE KITS

Description	Part No.	MSRP
Electric	90-4915	\$348.00
Manual	90-4925	\$565.50

TOOLS AND ACCESSORIES

Description		Part No.	MSRP
S&S Cable Knob		50-8700-S	\$6.45
S&S Two-Piece Socket Kit: Allows in-frame installation of S&S compression releases and protects wiring from damage during installation.		53-0045	\$98.90
COC Compression Dalance Hale Dlug	each	90-4916	\$10.33
S&S Compression Release Hole Plug		90-4916-2	\$18.83

REPLACEMENT PARTS

Description	Part No.	MSRP
Silicone Solenoid Caps	55-1009	\$3.83
Wiring Harness USA _{2,3} TÜV _{2,5,6}	55-1010	\$111.15
Electric Compression Release Assembly	90-4914	\$145.07



55-1009

90-4916













90-4915



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

90-4925

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)

DELPHI® STYLE S&S® VFI MODULE FITMENT

- 2007-'10 Harley-Davidson® Softail®
- 2007-'11 big twins, except 2008-up touring with electronic throttle control, 2011up Softail® or 2012-up Dyna®

FEATURES AND BENEFITS

- Replaces stock Harley-Davidson® fuel injection modules plugs directly into stock wiring harness
- Includes ProTune II software and can be updated at sscycle.com/software/protune
- 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 and knock sensor kit extend module capabilities
- Speedometer calibration function for 2004-up Harley–Davidson® models (does not require installation of separate speedometer calibrator)

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
- ProTune II software
- USB port cover kit
- Installation instructions

CLOSED LOOP CAPABILITY



55-5090



S&S® DELPHI® STYLE S&S VFI MODULE

Fitment/Description	Part No.	MSRP
VFI Module for 2001-'11 bt (except 2008-up touring and 2011 Softail®)**	55-5090*	\$815.95
S&S Delphi Style VFI Closed Loop Sensor Kit 😘 🕡,	106-2066	\$312.56
Knock Sensor Kit (55-5090 module only) 😘 🖜	106-0810	\$79.72

^{*}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 FOR VFI MODULES

Description	Part No.	MSRP
Service Kit, O ₂ Sensor USA TÜV,	106-2061	\$99.80
Service Kit, DTM Pin	55-1521	\$1.88
Service Kit, Oxygen Sensor Boss (SA) (USA)	55-6071-S	\$15.53
Service Kit, Subharness (Delphi Style)	55-1595	\$131.22
Hardware Kit (USB Cover)	55-5091	\$6.98

IOTES

All current production S&S modules are closed loop compatible, and all older S&S modules can be updated with current calibration by simply downloading software from the S&S website at www.sscycle.com/software/protune.

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.

Optional Delphi® style knock sensor adjusts timing to eliminate spark knock, prolonging engine life (55-5090 module only).

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. Check www.sscycle.com to find a tuning center near you.

DYNOJET® POWER VISION® TUNER

FITMENT

• 2001-'16 Harley-Davidson® models equipped with Delphi® ECM

FEATURES AND BENEFITS

- Flash tune all H-D® models equipped with a Delphi ECM, including 2015 models
- Does NOT require the user to interface with a computer in order to flash a tune.
 Change rev limit, idle speed, and other parameters directly from the device
- Display all H–D vehicle data as well as wide band AFR* and various calculated channels (such as Avg MPG)
- Customizable virtual gauges allow data to be monitored live, and/or logged while riding
- User defined visual alarms for any data channel
- AutoTune Basic and Pro calculates and stores fuel trims to help you optimize fuel curve utilizing the factory Ot, sensors (Basic), or Dynojet's Wide Band 2 System (Pro)!
- Check and clear diagnostic codes
- Reset adaptive fuel trims and idle offset (with bike running)

The Power Vision Suite includes a highly flexible tuning / data logging device, as well as a productive tuning application (WinPV) that's user friendly compared to other products on the market.

WINPV SOFTWARE FEATURES

- Allows you to import Power Commander Maps
- Tuning parameters laid out in a clear, concise manner utilizing a "tree view structure"
- A viewing mode for every type of user, beginners or professionals
- Individual tuning parameters are able to be saved as "value files." The value files can then be applied to other calibrations
- Compare, restore, and undo features
- Various math functions can be performed on any value
- Synchronized editing of front and rear VE and/or Spark tables
- Helpful tuning parameter descriptions
- Automatic update client ensures you have the latest tuning application, firmware, and tune file database



DYNOJET® POWER VISION® TUNER

Fitment	Mfr PN	Part No.	MSRP
2001-'13 H-D® models (except 2011 - Later Softail® & 2012 - Later Dyna®)	PV-1	- 550-0087	\$549.95
2011 - '16 Softail®, 2012-'16 Dyna®, and 2014-2016 Touring	PV-2	· 550-0111	\$549.95

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CALIBRATION FILES AVAILABLE FOR DOWNLOAD WWW.SSCYCLE.COM/SOFTWARE/POWER-VISION

VARIABLE PRESSURE CLUTCH

The VP clutch is the most cost effective kit for upgrading your H-D® 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 cover 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 H-D® 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 Spinning Pushing Pressure Plate

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.

560-0242

VARIABLE PRESSURE CLUTCH

Description	Part No.	MSRP
1998-2016 Big Twins with 6 Stud Clutch Hub	560-0242	\$284.95

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.



560-0241

INNER PRIMARY BEARING RACE

Description	Part No.	MSRP
2008-'17 Big Twins, except 2017 touring models with Stock 6 Speed Transmissions	560-0241	\$58.29

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 No.	MSRP
1998 - up Big Twins	560-0244	\$33.95



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.



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	MSRP	1½" Wide	MSRP
125	106-0357	\$199.71	_	-
126	_	_	106-0348	\$211.18
127	_	_	106-0349	\$211.18
128	106-0358	\$199.71	106-0350	\$211.18
130	106-0359	\$199.71	106-0351	\$211.18
132	106-0360	\$199.71	106-0352	\$211.18
133	106-0361	\$211.18	106-0353	\$215.37
135	106-0362	\$211.18	106-0354	\$217.44
136	_	_	106-0355	\$217.44
139	106-0363	\$211.18	106-0356	\$223.72
149	106-1338	\$219.78	106-2695	\$207.95
156	_	-	106-2827	\$219.78

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 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	\$131.14
1999-up, 41/8", Stock base bolt pattern	310-0335	\$181.25
1999-up T143 4.425" bore	310-0751	\$224.75

BASE GASKETS AND BASE O-RINGS FOR S&S® ENGINES

Description	Bore Size	Thickness	QTY	Part No.	MSRP	
	43/8"	.018"	2 pack	93-1082	\$13.11	
Missanasa	41/ II Cto de Dolt Dottom	010"	each	93-1092-S	\$8.57	
Micropore	4% Stock Boil Pattern	41/8" Stock Bolt Pattern .018"	10 pack	93-1921	\$71.43	
	4.425"	.018"	2 pack	900-0783	\$13.48	
	4"	.103"	each	50-8049	\$4.52	
Viton O-ring	37%", 334", 3.927"	102"	.103"	each	50-8048	\$4.25
	378,374,3.921	.103	eucii	11256	34.23	
Micropore	4 7/16"	.018"	2 pack	900-0783	\$13.48	



Micropore





Copper





90-1914

HEAD GASKETS AND HEAD O-RINGS FOR S&S® ENGINES

Description	Bore Size	Thickness	QTY	Part No.	MSRP
Copper	43/8"	.045"	2 pack	93-1081	\$56.83
Laurand Chaol	41/8" Stock Bolt Pattern	.043"	each	93-1091-S	\$26.18
Layered Steel	478 Stock boil Pattern	.043	10 pack	93-1920	\$253.75
Layered Steel	41/8" Stock Bolt Pattern	.030"	2 pack	900-0217	\$53.91
Layered Steel	4%" Stock Bolt Pattern with Twin Cooled™ Heads	.030"	2 pack	900-0609	\$53.91
Cranhita	4" Ctack Palt Dattorn	042"	each	93-1043-S	\$10.70
Graphite	4" Stock Bolt Pattern	.043"	10 pack	93-1058	\$97.53
Layered Steel	4" Stock Bolt Pattern	.045"	2 pack	900-0822	\$50.00
Layered Steel	4" Stock Bolt Pattern	.030"	2 pack	900-0821	\$50.00
Layered Steel	3.927" Stock Bolt Pattern	.030"	2 pack	900-0605	\$51.95
Layered Steel	3.927" Stock Bolt Pattern with Twin Cooled™ Heads	.030"	2 pack	900-0605	\$53.91
Graphite	3¾" Stock Bolt Pattern	.043"	each	93-1045-S 16775-99B	\$27.23
Layered Steel	4 7/16"	.045"	2 pack	900-0762	\$56.83
Layered Steel	4.125" Stock Bolt Pattern with Twin Cooled™ Heads	.045"	each	900-0608	\$25.46

GASKET KITS FOR TOP END

Bore	Part No.	MSRP
41/8" Stock Bolt Pattern	90-1914	\$88.07
4" Stock Bolt Pattern	90-1913	\$42.97
31/8" & 3.927" Stock Bolt Pattern	910-0465	\$67.10

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.



S&S® TOP END GASKET KIT FOR TWIN CAM 96%/103% AND S&S ENGINES

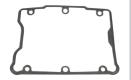
Bore	Part No.	MSRP
43%"	90-9511	\$84.51
41/8" Stock Cases	90-9510	\$87.43
4" Stock Bolt Pattern	90-9505	\$75.77
3%" Stock Bolt Pattern	90-9504	\$73.40

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.

S&S® ROCKER COVER GASKET KITS

Rocker Cover Style	Head Type	Part No.	MSRP
S&S Die-cast	S&S Heads	90-4111	\$54.51
Stock 1999-2017, except 2017 touring models	Stock or S&S Heads	90-4097*	\$65.57
Stock 1999-2017, except 2017 touring models	Stock heads	900-0534	\$54.63

All kits include gaskets for two rocker covers.



90-4096-S

INDIVIDUAL GASKETS FOR TOP END

Description		QTY	Part No.	MSRP
Valve Guide Seal		each	106-5688	\$2.24
Valve Stem Oil Seal, Hat	Style	each	900-059018094-02	\$83.70
Exhaust Gasket		each	106-5029 65324-83A, 65324-83B	\$5.03
Bottom Rocker Cover Ga	sket, S&S 4 ¼", 1999-up bt with	each	90-4071-S 16719-99B	\$4.60
stock head breathing		2 pack	90-4071 <i>16719-99B</i>	\$9.19
Bottom Rocker Cover Ga	sket, S&S 79cc heads with	each	90-4124	\$13.22
Stock Rocker Box		2 pack	90-4120	\$23.42
Top Rocker Cover Gasket,	Steel	each	90-4096-S 17386-99A	\$11.66
Gasket, Breather Cover	1999-'10	each	90-4077 17591-99, 17162-03, 17592-99	\$1.03
	2011-'17	each	900-0415	\$2.91
Gasket, Breather Baffle	1999-'10	each	90-4078 17162-03, 17592-99	\$1.03
	2011-'17	each	900-0416	\$2.91
O-ring, Breather to Base		each	50-8033 11270	\$1.46
Valve, Umbrella		each	900-0495 26858-99	\$2.36
Filter, Breather		each	900-0496 63815-99	\$1.18



90-4124



90-4071-S



106-5029



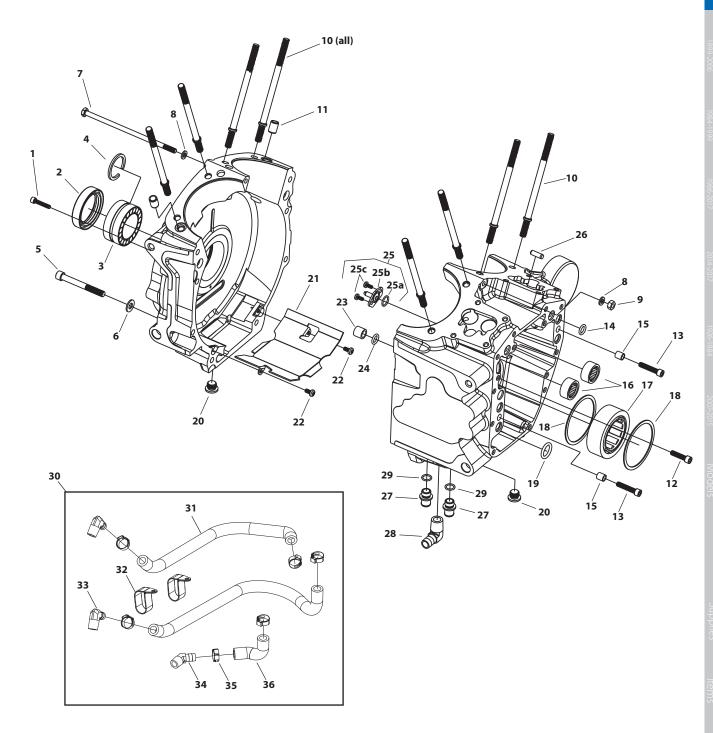
^{*}Kit contains bottom rocker gaskets for stock heads and S&S 79cc heads.

SUPER STOCK™ T2 CRANKCASE REPLACEMENT PARTS

1.	Bolt, stator 10-24 x1" SHC - 4 required 2720 50-0044	\$1.08	18.	Retaining Ring,In
2.	Seal, sprocket shaft <i>12068</i>	\$15.11		eacht
3.	Bearing, Timken® sprocket shaft 9028		19.	0-ring, oil pump
	1.3.4.5.6.7 31-4013	\$68.49		each
4.	Timken Main Bearing Spacers			Plug, magnetic d
	Fits 11/4" stock diameter shaft.			Baffle plate
	.0995"1005" 9124	\$6.98	22.	Screw 10-24 x 3/8
	.1015"1025" 9125	\$6.98		each
	.1035"1045" 9126	\$8.74	23.	Dowel, case align
	.1055"1065" 9127	\$6.98		each
	.1075"1085" 9128	\$6.98		10 pack
	.1195"1205" 9134	\$6.98	24.	O-ring, case aligr
5.	Bolt, case 5/16" -18 x 31/2" HHC - 8 required			%16" I.D. x ¹¹ /16" O.
	Chrome (each)	\$3.45		2 pack
	Zinc 3427 (each)	\$1.09	25.	Jet, Assembly, Pi
6.	Washer, flat 5/16" x 11/16" x 1/16" - 8 required 6320, 70907-07, 6016, 6702			Piston Oiler Jet K
	each	\$0.26		Piston Oiler Jet K
7.	Bolt center case Screw,HHC,Gr8,¼-28 x 5-½",Zinc,Steel			a. 0-ring, (-01
	each 50-0090	\$1.98		each
8.	Washer, flat, 1/4" x .474" x .050"			10 pack
	each	\$1.03		b. Jet, Assembly,
9.	Nut 1/4"-28 Grade 8 - 1 required 7683	\$0.26		each
10.	cymiaci stady sas soit rattern o regained (tath) o	\$5.76		c. Screw, Torx Pa
	8 pack	\$44.82		each
	Cylinder stud, Stock Bolt Pattern – 8 required (each)	\$4.74		Pin Dowel, 2 pack
	8 pack	\$42.95		Fitting, crankcase
	Pin, Dowel, .4377" x .500", Steel, 4 Pack	\$11.15		Fitting Pipe, 90°,
12.	Bolt, cam plate 1/4" -20 x 1" SHC - 4 required 852			0-ring, -13, .437
	each	\$1.05	30.	Installation Kit, O
13.	Bolt, cam plate 1/4" -20 x 11/4" SHC - 2 required 4740A, 3482A			Installation Kit In
	each	\$1.06		Hose,Oil Line,.50
	O-ring, cam plate - 9 required 11301 (each)			Clamp, Hose, Pinc
	Dowel, cam plate - 2 required 16589-99A 50-8148-5	\$2.89		Fitting Pipe, 90°,
16	Bearing,Inner,Needle,Cam,1.0" x 1.25" x .50" 9215			Fitting,Pipe,45°,N
	each	\$16.03		Clamp, Hose, Pinc
17.	Bearing, pinion shaft — Fits all S&S and OEM 2000-'02		36.	Hose,Oil Line,Feed
	(Balanced models only) & all OEM 2003-up			
	24604-00D	\$57.16	(N/	S) = Not shown

18.	Retaining Ring,Internal,2%",Black,Carbon Steel 2 required	
	eacht	\$2.91
19.	O-ring, oil pump 11/16" I.D. x 15/16" O.D. x 1/8" CS 11293, 11157, 11101, 11190	
	each	\$1.68
20.	Plug, magnetic drain	\$11.18
21.	Baffle plate	\$7.29
	Screw 10-24 x 3/8" pan head - 2 required	
	each	\$1.08
23.	Dowel, case alignment - 2 required 16574-99A, 16573-83, 16573-83A	
	each	\$1.68
	10 pack	\$16.26
24.	0-ring, case alignment, - 2 required 26432-76A	-
	%6" l.D. x 1½6" O.D. x ½" CS (each)	\$1.15
	2 pack	\$2.40
25.	Jet, Assembly, Piston Cooling, Low Profile, for T143 310-0646	\$14.57
	Piston Oiler Jet Kit	\$21.86
	Piston Oiler Jet Kit includes:	,
	a. 0-ring, (-014), .500" ID x .625" 0D11140, 11273	
	each	\$1.05
	10 pack	\$4.78
	b. Jet, Assembly, Piston Cooling	7 117 0
	each	\$21.86
	c. Screw, Torx Panhead, 8-32 x 3/8", Zinc, Steel 68042-99	72.1100
	each	\$0.36
26	Pin Dowel, 2 pack. 50-8195	\$3.47
27.	Fitting, crankcase vent, 2 pack	\$12.76
28.		\$12.20
	0-ring, -13, .437 ID, X .565 OD, Viton <i>11105</i> , <i>11273</i> 50-8008	\$1.05
	Installation Kit, Oil Line, 2007-up FL	\$114.29
50.	Installation Kit Includes:	7111.27
31	Hose,Oil Line,.500"x.750"x24"	\$30.60
	Clamp, Hose, Pinch Style, 812" OD Hose	\$1.75
	Fitting Pipe, 90°, Bared Male Pipe 3′k	\$1.75
	Fitting, Pipe, 45°, Male, 3/8 NPT x . 500", Brass	\$8.74
	Clamp, Hose, Pinch Style, 45/64" - 53/64"	\$0.66
	Hose,Oil Line,Feed.Formed,.500"ID, 2007-up Touring 310-0376-3	\$0.00 \$11.66
20.	1105C,011 LITIC,1 CCU.FUTTIEU,.300 TD, 2007-UP TOUTTING 3 TU-U33U	00.117

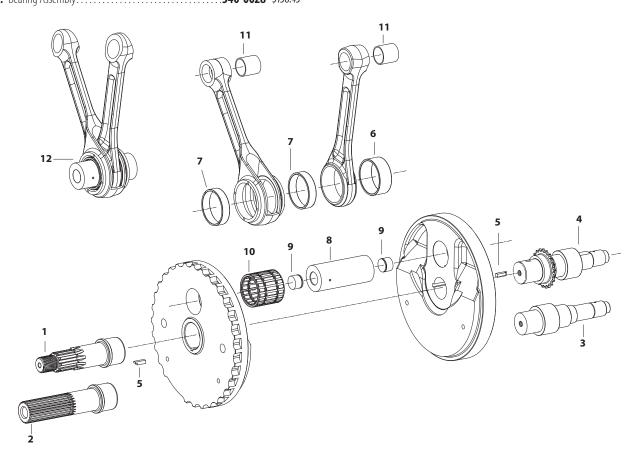




5-PIECE FLYWHEEL REPLACEMENT PARTS

1.	Sprocket Shaft, 1999-2006 bt (includes key #5) 33-2009	\$122.25
	Sprocket Shaft, 2006 Dyna®, 2007–2012 bt	
3.	Pinion Shaft, 1999–2012 bt (includes key #5)	\$129.95
	Pinion Shaft, 2000–2012 w/balancer (includes key #5) 33-2042	
5.	Key (each)	\$2.07
6.	Front Rod Race, 1999-2012	\$25.12
7.	Rear Rod Race	\$25.12
8.	Crankpin	
	Standard	\$128.97
	+.001 340-0017	\$128.97
	+.002 340-0018	\$128.97
9.	Crankpin Plug (each)	\$3.83
	2 pack	\$7.46
10.	Bearing Assembly. 340-0028	\$138.43

11.	Wristpin Bushing,	
	1999-2012* bt , straight bushing	\$5.77
12.	Connecting Rod Set,	
	T143, full width wristpin, 7.800" 340-0128	\$572.75





 $Due to different crankpin diameters, S\&S^{\circ} connecting rod assemblies cannot be used with stock Harley-Davidson^{\circ} flywheels.$

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.



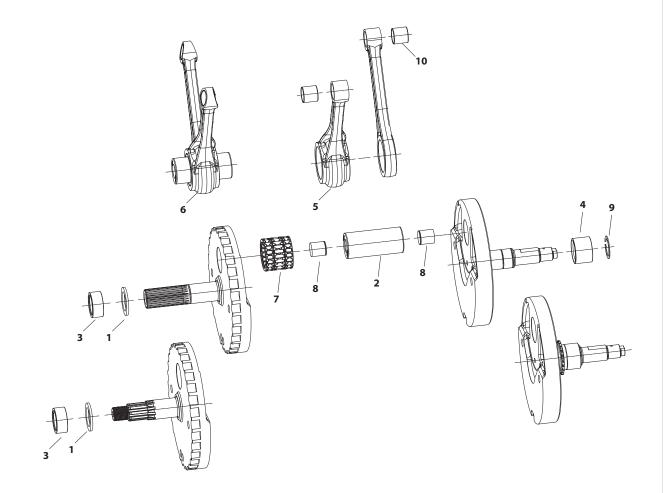
S&S will remanufacture your S&S flywheel assembly to like new specifications through the S&S Service & Speed Center®. See Section 12: Dealer Services or call your S&S customer support representative for more information.

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3-PIECE FLYWHEEL REPLACEMENT PARTS

1.	Washer, Flywheel, Thrust, 1.25" x 1.83" x .136", Hardened Steel	
	320-0198	\$11.18
2.	Crankpin, Press-In, Straight, 1.671", 1999-Up bt (includes plugs)	
	Standard 340-0069	\$117.26
	+.001340-0070	\$117.26
	+.002340-0071	\$117.26
3.	Race, Inner, Left Main Bearing,	
	1.25" x 1.65" x .713", Hardened Steel 340-0076	\$21.86
4.	Race, Inner, Right Main Bearing,	
	1.25" x 1.65" x 1.120", Hardened Steel 340-0077	\$21.86
5.	Connecting Rod, Set, Full Width Wristpin, 7.575", 120R 340-0062	\$507.50
	Connecting Rod, Set, Full Width Wristpin, 7.659" 340-0074	\$476.69
	Connecting Rod Set, Full Wristpin, 7.800", T143 340-0128	\$572.75

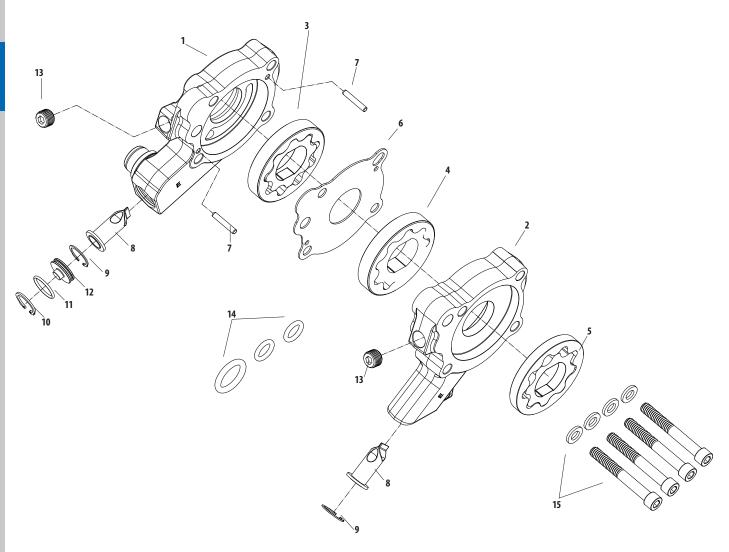
6.	Connecting Rod, Set, Tapered Wristpin, 7.659" 340-0061	\$507.50
7.	Bearing, Set, Rod, Standard	\$84.29
	Bearing Set, Rod, Standard, T143 340-0127	\$217.50
8.	Plug, Drive, .8965" x .850", Steel, Fatigue Proof	
	2 pack	\$14.24
9.	Retaining Ring, External, Pinion Bearing, 1.160" x 1.480" x .046"	
	Carbon Steel, SAE 1060-1090 111774 50-8057	\$1.22
10.	Bushing, Wristpin, .928", Bronze <i>each</i>	





S&S will remanufacture your S&S flywheel assembly to like new specifications through the S&S Service & Speed Center®. See Section 12: Dealer Services or call your S&S customer support representative for more information.

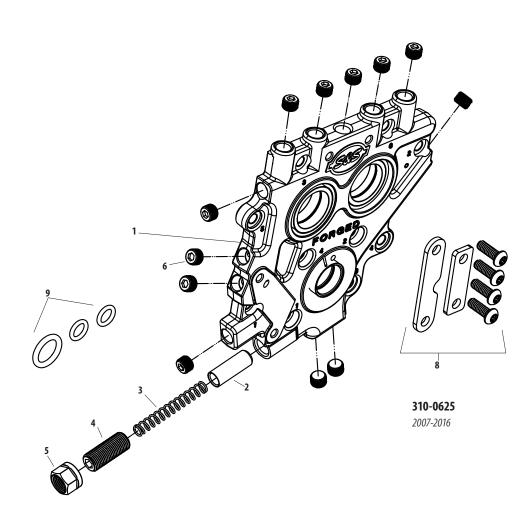
TC3 OIL PUMP REPLACEMENT PARTS



1.	Oil pump body case return section	-
2.	Oil pump body cam chest return / pressure feed	-
3.	Oil pump rotor set, flywheel cavity return310-0644	\$36.43
4.	Oil pump rotor set, cam chest cavity return	\$36.43
5.	Oil pump rotor set, supply	\$36.43
6.	Plate, divider	\$7.29
7.	Dowel Pin, .125 x .750 Hardened Steel	\$0.73
8.	Debris screen	\$8.74
9.	Internal Retaining Ring, .625 500-0320	\$1.46
10.	Internal Retaining Ring, 17mm 500-0209	\$1.46
	0-ring, 1.5mm x 14mm, Viton	\$1.82
	Oil pump return plug	\$3.64
	Plug, Pipe 1/8" 27 45830-48	\$1.00
	0-ring kit	\$5.10
	Screw, Kit, Oil Pump, 1999-Up BT	
	(¼" 20 x 2" SHCS w/washers)	\$5.83
	,	,

TC3 CAM PLATE REPLACEMENT PARTS

		MSRP
1.	Cam support plate	-
2.	Pressure relief valve	\$4.37
3.	Pressure relief spring	\$1.37
	Pressure relief adjusting screw	
5.	Pressure relief adjusting screw lock nut	\$5.10
6.	1/8" 27 taper pipe plug 50-8331	\$1.00
7.	Bearing retention plate kit	\$7.29
	Hydraulic tensioner block off kit	
	0-ring kit	



OIL PUMP REPLACEMENT PARTS FOR 2007-'16 HARLEY-DAVIDSON® BIG TWINS

1. Cover, assembly, camchest		25. Bushing, pinion shaft	\$25.75
Chrome		26. Screw FHSC 10-24 x 34" (<i>5 pack</i>)	\$3.70
2. Cover plate3		27. Screw FHSC 14"–20 x 2" (<i>S pack</i>)	\$5.83
3. Bushing, cam support (each)		28. Kit, cover screw	\$25.75
4. Nut, gear retainer, rear cam		29. Gasket (<i>each</i>)	\$6.66
5. O-ring, Viton (-220) (each)		30. Dowel pin, ³ / ₂ " diameter x 1" (each)	\$1.05
6. Screw, SHC - 10-24 x 1"(<i>each</i>)		31. Retaining ring (<i>5 pack</i>)	-
7. Alignment dowel (each)		32. Bushing	\$14.57
8. Idler gear shaft (<i>each</i>)	-2079-S \$15.53	0 : 5/ II 0 D 1/ II V(; / 011)	\$0.68
9. Divider plate		34. O-ring (-209) Viton (each)	\$1.68
10. Screw FHSC 10-24 x ½" (5 pack)		35 Wacher pipion goar 50 0221 C	\$30.24
11. Gear, cam chest return		36 Cerous EUUC 54-" 10 v 34" CO acces on EO 0100	\$0.99
12. Gear assembly, pinion shaft		27 (tool hall 16" /arch)	\$1.02
13. Gear, idler – Includes item PN 33-4214 bushing		20 Din dowel 275" ID v 2745" OD v 207" FA 9140 C	\$2.89
14. Gear, cam drive	3-4292 <i>\$143.67</i>	/	\$6.16
15. Gear, spacer	33-4171 <i>\$54.51</i>	39. Viton o-ring (-207) (5 pack)	\$13.11
16. Thread adapter 31 -	-2089-S \$19.19	40. Viton o-ring (-225) (5 pack)	\$5.83
17. Cam drive gear	3-4293 <i>\$261.00</i>	41. Viton o-ring (-16) (5 pack)	\$5.83 \$1.05
(For reference only, not included in pump kit.)		42. Screw, FLC 1/4"-20 x 1/4" 905 (each)	\$1.05
18. Body assembly	31-6505 <i>\$563.72</i>	43. Pipe plug 1/8"–27 (each)	\$5.83
19. Spring, pressure control(<i>each</i>)	31-6018 <i>\$1.37</i>	10 pack	\$5.65 \$11.45
10 pack	1-6084 <i>\$12.33</i>	44. Key kit - cams	<i>۱۱.4</i> ر
20. Plunger, pressure control valve <i>26400-82B</i> , <i>26400-82</i>		45. Camshafts – See Cam Selection Chart below.	
	31-6082 <i>\$6.98</i>	46. Ball, pressure relief valve %" diameter	\$0.61
21. Pressure control plug w/o-ring	60-8326 <i>\$25.75</i>	8866, 8873 50-8091	\$26.87
22. Fitting, flywheel cavity return	60-8183 <i>\$25.75</i>	47. Spring, pressure relief valve	\$23.04
23. Screw, SHC 8-32 x 5%" (5 pack)	60-0293 <i>\$3.70</i>	48. Seal rebuild kit (N/S) (Includes #5, 24, 29, 34, 39, 40, 41). 31-2097	\$23.04
24. O-ring, Viton <i>11301</i> (<i>each</i>) 50 -	- 8066-S \$1.06	N/S = Not Shown	
35 8 32 11 36 37 37 37 37 37 37 37 37 37 37 37 37 37	9 15	16 47 40 38 0 0 7 16 41 6 7 16 41 6 7 16 25 0 0 22 24 0 0 22 34 0 0 0 3 25 0 0 0 3 27 0 0 0 0 3 27 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
S&S® GEAR DRIVE EASY START CAM SETS FOR USE WITH S&S GEAR OIL PUMPS FOR 2007-'15 BIG TWIN AND 2006 DYNA® MODELS	0 0	39 26	
Cam* Part No. 585GPE 330-0145	MSRP \$626.36	40	
Cam* Part No.		28	

^{*}See page 40 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 on any EPA pollution controlled motor vehicle.

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

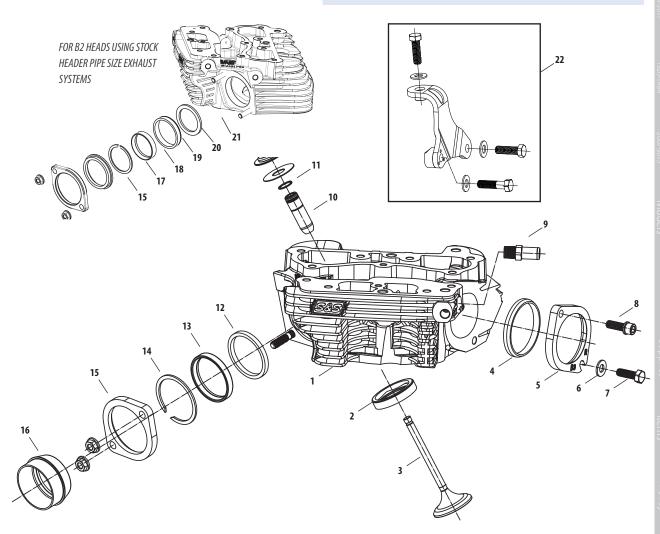
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B3 CYLINDER HEADS REPLACEMENT PARTSFOR S&S T143 ENGINES

1.	Cylinder Heads Set, B3	
	Black900-0803	\$2,200.36
	Stone Gray 900-0806	\$2,200.36
2.	Seat, Blank, B3 Heads, 2.300"	
	Intake	\$25.46
	Exhaust	
3.	Valve	
	Intake	\$44.82
	Exhaust 900-0679	\$70.99
4.	Seal,Manifold,B2 Heads,2.250" x 2.520" x .290" 16-0246-S	\$14.29
5.	Flange, Set	\$195.75
	Front	\$91.77
	Rear	\$91.77
6.	Washer, Flat, .344" x .688" x .065", Zinc, Steel 50-7034	\$0.26
7.	Bolt, Hex Head, Gr5, 5/16-18 x 1", Zinc 50-0108	\$1.05
8.	Screw, SHCS, w/Flat Washer, 5/6-18 x 1", Zinc 50-0125-S	\$1.84
9.	Fitting, Pipe, Straight, 1/4–18 NPTF x 1.510" X .500", Zinc, Steel	
		\$5.39
10.	Valve Guide, Intake, Powder Metal 900-0780	\$15.30

11. Retaining Ring, External, Spiral, Heavy Duty, .525" x .035" x .0	50",
Carbon Steel	\$1.06
12. Exhaust Gasket Backing Washer,	
2.18" x 1.885" x .200"	\$22.22
13. Exhaust Gasket, Tapered, Stainless Steel 550-0221	\$5.09
14. Exhaust Flange Retaining Ring, 2.125" x .078". 50-8159-S	\$4.81
15. Exhaust Flange	\$18.71
16. Weld-On Exhaust Header Pipe	\$26.68
17. Exhaust Adapter Flange for Stock Header Pipe . 550-0224	\$32.63
18. Exhaust Flange Retaining Ring, 1.759" x .062". 550-0226	\$4.68
19. Exhaust Gasket, Tapered Stainless Steel 106-5029	\$5.03
20. Press-in Aluminum Retaining Ring, 1984—up . 550-0225	\$26.68
21. Exhaust Gasket Backing Washer,	
2.18" x 1.690" x.125" 550-0220	\$22.22
22. Head Mount Bracket Kit	
2008 T143 900-0797	\$46.63
2009-up T143	\$37.89

VALVE SPRING REPLACEMENT PARTS: SEE PAGE 90



All reference to H-D® Part # 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 H-D® Part # shown.

B2 CYLINDER HEADS REPLACEMENT PARTS

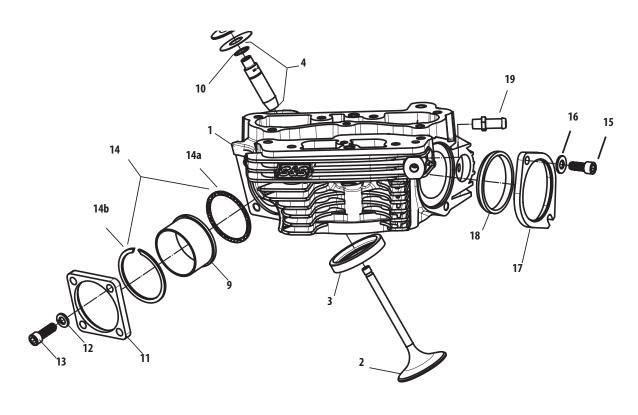
1.	Cylinder head — (See page 51)		
2.	Valve		
	Intake, 2.200" Dia	90-2127	\$45.73
	Exhaust, 1.800" Dia		\$74.55
3.	Valve Seat		
	Exhaust, 1.800" Dia,	90-2126	\$31.98
	Intake, 2.200" Dia,		\$30.05
4.	Valve guide, intake/exhaust, cast		
	STD	. 106-2166	\$34.95
	+.030"	. 106-2170	\$102.00
9.	Adaptor, Exhaust Flange	55-6022	\$38.93
10.	Snap ring (each)	. 106-2164	\$1.06
11.	Flange, exhaust, front/rear	55-6021	\$54.79
12.	Washer,Lock,.332" x .583" x .078"	50-7032	\$0.26
13.	Screw, SH, 5/16" -18 x 1" 3201WA, 2708	50-0101	\$0.57
14.	Gasket,Kit,Exhaust,B2 Heads,SA	90-1900	\$13.33
	Kit includes two each:		
	a. Gasket, exhaust pipe (each)	. 93-1083-S	\$2.62
	6 pack	93-1083	\$14.34
	b. Retaining Ring	N/A	
15.	Screw, SH, 5/16–18 x 3/4" (H-D° #3275) each	.50-0302-S	\$1.06
16.	Washer, 5/16" 6320, 70907-07, 6016, 6702)	50-7034	\$0.26

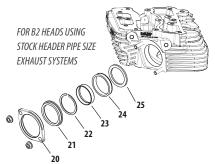
All reference to H-D® Part # is for identification purposes only. We in no way are implying that any of S&S Cycle's products are original equipment parts or that they are equivalent to the corresponding H-D® Part # shown.

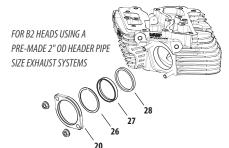
17. Manifold mounting flange	
Front 16-02	47 \$59.89
Rear	48 \$59.89
18. O-ring, manifold (each)	-S \$14.29
6 pack	
19. Fitting, vent hose, 1/8"–27 pipe 50-81	
20. Exhaust Flange, 1984—up S&S® B2 Heads 550-02	
21. Exhaust Adapter Flange for Stock Header Pipe,	
1984—up S&S® B2 Heads	24 \$32.63
22. Exhaust Flange Retaining Ring, 1.759" x .062". 550-02	
23. Exhaust Gasket, Tapered Stainless Steel, 1984—up bt, 198	
(H-D° #65324-83A, 65324-83B)	
24. Press-in Aluminum Retaining Ring, 1984—up	
S&S® B2 Heads	25 \$26.68
25. Exhaust Gasket Backing Washer	
2.18" x 1.690" x.125"	20 \$22.22
26. Exhaust Flange Retaining Ring, 2.125" x .078" 50-8159	
27. Exhaust Gasket, Tapered, Stainless Steel,	
1984—up S&S® B2 Heads	21 \$5.09
28. Exhaust Gasket Backing Washer	
2.18" x 1.885" x .200"	19 \$22.22
29. Weld-On Exhaust Header Pipe	
27. Weid on Exhibition reduced tipe	,

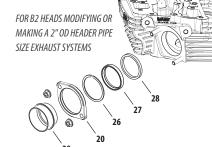
VALVE SPRING REPLACEMENT PARTS: SEE PAGE 90











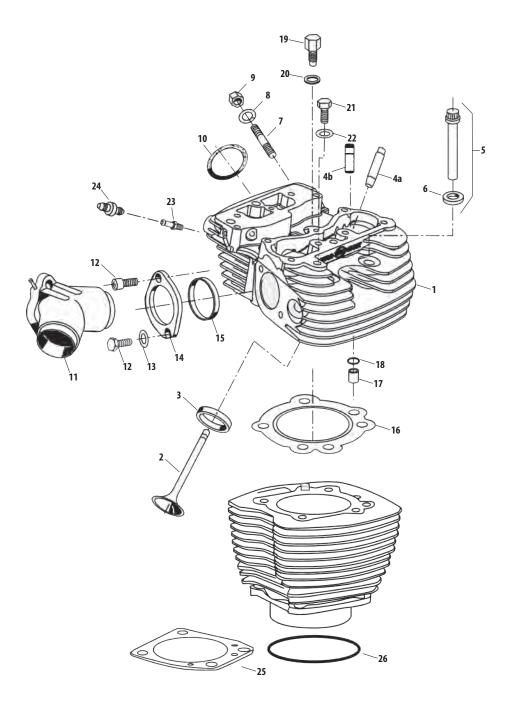
SUPER STOCK® CYLINDER HEADS REPLACEMENT PARTS FOR 2007-2016 BIG TWIN ENGINES

1.		
	Cylinder head (Starting page 52)	
2.	Valve	
۷.	All S&S heads with 89cc or 91cc chamber	
	Intake	
	2.000" diameter	\$26.87
	2.000 diameter + .085" stem length	\$28.95
	Exhaust	720.73
	1.605" diameter	\$60.53
	All S&S heads with 79cc chamber	700.55
	Intake — 1.940" diameter	\$31.37
	Exhaust — 1.575" diameter	\$51.00
,	Valve seat	43.100
3.	All S&S heads with 89cc or 91cc chamber	
	Intaka 2.000" diameter USA TÜV 00 2002	\$21.77
	Intake – 2.000" diameter.	\$51.57
	All S&S heads with 79cc chamber	۱۷.۱۱ کډ
	Intake – 1.940" diameter	\$18.01
	Exhaust – 1.575" diameter	\$10.01
	Extraust = 1.373 diameter	٦١٦.23
4.	What had selected	
	a. Valve guide - Intake or Exhaust Cast	440
	Standard 18112-92. (SA, 2,4,5,6,7 90-2210	\$10.49
	+.001" 18130-836.	\$43.71
	+.002" 18133-83D, 18133-83A 90-2212	\$43.71
	+.003" 18131-83C. 90-2213 +.030" 90-2219	\$43.71
		\$36.43
	b. Valve Guide – Intake or Exhaust Powder Metal (PM)	ć22.0 <i>c</i>
	Standard900-0553	\$32.06
	+.001	\$32.06
	+.002	\$32.06 \$32.06
_	+.003	\$32.00
5.	Head bolt assembly — (8 Required) (Includes head bolt washer)	
	each	\$14.31
	4 pack	\$49.19
6.	Head bolt washer, .250" (each)	\$1.63
7.	Exhaust port stud 16715-83 (each)	\$2.65
	5 pack	
8.		\$12.05
	Lock washer - 1/16"	\$12.05 \$0.26
9.		
9.	Lock washer - 1/16"	
9.	Nut, flanged - 5/6" - 24 7593 Zinc (each)	\$0.26
9.	Nut, flanged - 5/16" - 24 7593 Zinc (each). 50-5025-S 2 pack 50-5025-2 5 pack 50-1001	\$0.26 \$1.05
9.	Nut, flanged - 5/16" - 24 7593 Zinc (each). 50-5025-S 2 pack 50-5025-2 5 pack 50-1001	\$0.26 \$1.05 \$1.25
	Nut, flanged - 5/6" - 24 7593 Zinc (each)	\$0.26 \$1.05 \$1.25 \$3.21
	Nut, flanged - 5/16" - 24 7593 Zinc (each). 50-5025-5 2 pack. 50-5025-2 5 pack. 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-83A, 65324-83B each. 106-5029	\$0.26 \$1.05 \$1.25 \$3.21
	Nut, flanged - 5/16" - 24 7593 Zinc (each). 50-5025-5 2 pack. 50-5025-2 5 pack. 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-83A, 65324-83B	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85
10.	Nut, flanged - 5/16" - 24 7593 Zinc (each) 50-5025-5 2 pack 50-5025-2 5 pack 50-1001 Chrome (each) 50-5030-5 Exhaust pipe gasket, tapered 65324-83A, 65324-83B 106-5029 10 pack 93-1072	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03
10. 11.	Nut, flanged - 5/16" - 24 7593 Zinc (each). 50-5025-5 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-838 each 106-5029 10 pack 93-1072 Intake manifold (see page 58)	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03
10. 11.	Nut, flanged - 5/16" - 24 7593 Zinc (each). 50-5025-5 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-83A, 65324-83B each 10 pack 93-1072 Intake manifold (see page 58) Manifold mounting screw	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03 \$44.43
10. 11.	Nut, flanged - 5/16" - 24 7593 Zinc (each). 50-5025-5 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-838 each 106-5029 10 pack 93-1072 Intake manifold (see page 58) Manifold mounting screw SH - 5/16" - 18 x 3/4" 3275 (each) 50-0302-5	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03 \$44.43
10. 11.	Nut, flanged - 5/16" - 24 7593 Zinc (each). 50-5025-5 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-83A, 65324-83B each 10 pack 93-1072 Intake manifold (see page 58) Manifold mounting screw	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03 \$44.43
10. 11. 12.	Nut, flanged - 1/16" - 24 7593 Zinc (each). 50-5025-5 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-83A, 65324-83B each 106-5029 10 pack 93-1072 Intake manifold (see page 58) Manifold mounting screw SH - 1/16" - 18 x 3/4" 3275 (each) 50-0302-5 SH - 1/16" - 18 x 1" 3201WA, 2708. 50-0101 HH - 5/16" - 18 x 1" 3987 (each) 550-0108	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03 \$44.43 \$1.06 \$0.57
10. 11. 12.	Nut, flanged - 1/16" - 24 7593 Zinc (each). 50-5025-5 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-834, 65324-838 each 106-5029 10 pack 93-1072 Intake manifold (see page 58) Manifold mounting screw SH - 5/6" - 18 x 1/3 3275 (each) 50-0101 HH - 1/16" - 18 x 1/3 3987 (each) 50-0108 Flat washer - 1/16" 6320, 70907-07, 6016, 6702 50-7034	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03 \$44.43 \$1.06 \$0.57 \$1.05
10. 11. 12.	Nut, flanged - 1/16" - 24 7593 Zinc (each). 50-5025-5 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-83A, 65324-83B each 106-5029 10 pack 93-1072 Intake manifold (see page 58) Manifold mounting screw SH - 1/16" - 18 x 14" 3207 (each) 50-0101 HH - 1/16" - 18 x 1" 3987 (each) 50-0108 Flat washer - 1/16" 6320, 70907-07, 6016, 6702 50-7034 Manifold mounting flange	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03 \$44.43 \$1.06 \$0.57 \$1.05 \$0.26
10. 11. 12.	Nut, flanged - 1/16" - 24 7593 Zinc (each). 50-5025-5 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-83A, 65324-83B each 106-5029 10 pack 93-1072 Intake manifold (see page 58) Manifold mounting screw SH - 1/16" - 18 x 1/4" 3275 (each) 50-0302-5 SH - 1/16" - 18 x 1 1" 3201WA, 2708. 50-0101 HH - 1/16" - 18 x 1 1" 3987 (each) 50-0108 Flat washer - 1/16" 6320, 70907-07, 6016, 6702 50-7034 Manifold mounting flange Front 27009-864 (each) 16-0232	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03 \$44.43 \$1.06 \$0.57 \$1.05 \$0.26
10. 11. 12.	Nut, flanged - 1/16" - 24 7593 Zinc (each). 50-5025-5 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-83A, 65324-83B each 106-5029 10 pack 93-1072 Intake manifold (see page 58) Manifold mounting screw SH - 1/16" - 18 x 1/4" 3275 (each) 50-0302-5 SH - 1/16" - 18 x 1" 3987 (each) 50-0101 HH - 1/16" - 18 x 1" 3987 (each) 50-0108 Flat washer - 1/16" 6320, 70907-07, 6016, 6702 50-7034 Manifold mounting flange Front 27009-86A (each) 16-0232 5 pack 16-0600	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03 \$44.43 \$1.06 \$0.57 \$1.05 \$0.26 \$20.40 \$100.54
10. 11. 12.	Nut, flanged - 1/16" - 24 7593 Zinc (each). 50-5025-5 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-83A, 65324-83B each 106-5029 10 pack 93-1072 Intake manifold (see page 58) Manifold mounting screw SH - 1/16" - 18 x 1/4" 3275 (each) 50-0101 HH - 1/16" - 18 x 1" 3987 (each) 50-0101 HH - 1/16" - 18 x 1" 3987 (each) 50-0108 Flat washer - 1/16" 6320, 70907-07, 6016, 6702 50-7034 Manifold mounting flange Front 27009-86A (each) 16-0232 5 pack 16-0600 Rear 27010-86A (each) 16-06233	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03 \$44.43 \$1.06 \$0.57 \$1.05 \$0.26
10. 11. 12.	Nut, flanged - 1/16" - 24 7593 Zinc (each). 50-5025-5 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-834, 65324-838 each 106-5029 10 pack 93-1072 Intake manifold (see page 58) Manifold mounting screw SH - 5/6" - 18 x 1/" 3275 (each) 50-0302-5 SH - 5/6" - 18 x 1 " 3201W4, 2708 50-0101 HH - 5/6" - 18 x 1 " 3987 (each) 50-0108 Flat washer - 5/16" 6320, 70907-07, 6016, 6702 50-7034 Manifold mounting flange Front 27009-864 (each) 16-0600 Rear 27010-864 (each) 16-0601	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03 \$44.43 \$1.06 \$0.57 \$1.05 \$0.26 \$20.40 \$100.54 \$20.40
10. 11. 12.	Nut, flanged - ⅓6" - 24 7593 Zinc (each). 50-5025-S 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-834, 65324-838 each 106-5029 10 pack 93-1072 Intake manifold (see page 58) Manifold mounting screw SH - 5⅓6" - 18 x ¾" 3275 (each) 50-0302-5 SH - 5⅙6" - 18 x 1" 3987 (each) 50-0101 HH - ⅙6" - 18 x 1" 3987 (each) 50-0108 Flat washer - ⅙6" 6320, 70907-07, 6016, 6702 50-7034 Manifold mounting flange Front 27009-86A (each) 50-0232 5 pack 16-0600 Rear 27010-86A (each) 16-0601 Set (Front & Rear) 106-3516	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03 \$44.43 \$1.06 \$0.57 \$1.05 \$0.26 \$20.40 \$100.54 \$20.40 \$100.54
10. 11. 12.	Nut, flanged - ⅓6" - 24 7593 Zinc (each). 50-5025-5 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-834, 65324-838 each 106-5029 10 pack 93-1072 Intake manifold (see page 58) Manifold mounting screw SH - 5⅓6" - 18 x ¾" 3275 (each) 50-0101 HH - ⅙6" - 18 x 1" 3987 (each) 50-0108 Flat washer - ⅙6" 6320, 70907-07, 6016, 6702 50-7034 Manifold mounting flange Front 27009-86A (each) 50-0332 5 pack 16-0600 Rear 27010-86A (each) 16-06233 5 pack 16-0601 Set (Front & Rear) 106-3516 Manifold o-ring	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03 \$44.43 \$1.06 \$0.57 \$1.05 \$0.26 \$20.40 \$100.54 \$20.40 \$100.54 \$40.00
10. 11. 12.	Nut, flanged - ⅓6" - 24 7593 Zinc (each). 50-5025-S 2 pack 50-5025-2 5 pack 50-1001 Chrome (each). 50-5030-5 Exhaust pipe gasket, tapered 65324-834, 65324-838 each 106-5029 10 pack 93-1072 Intake manifold (see page 58) Manifold mounting screw SH - 5⅓6" - 18 x ¾" 3275 (each) 50-0302-5 SH - 5⅙6" - 18 x 1" 3987 (each) 50-0101 HH - ⅙6" - 18 x 1" 3987 (each) 50-0108 Flat washer - ⅙6" 6320, 70907-07, 6016, 6702 50-7034 Manifold mounting flange Front 27009-86A (each) 50-0232 5 pack 16-0600 Rear 27010-86A (each) 16-0601 Set (Front & Rear) 106-3516	\$0.26 \$1.05 \$1.25 \$3.21 \$1.85 \$5.03 \$44.43 \$1.06 \$0.57 \$1.05 \$0.26 \$20.40 \$100.54 \$20.40 \$100.54

For Stock manifold 26995-868, 26995-86A, 26992-99	
each	\$4.72
10 pack	\$40.87
16. Head gasket	Ş 1 0.07
For Stock Bolt Pattern	
3¾" x .043" Graphite (each)	\$27.23
37%"/3.927" x .030" Layered Steel (2 pack)	\$53.91
37%"/3.927" x .045" Layered Steel (each)	\$25.46
4" x .043" Graphite (each)	\$10.70
10 pack	\$97.53
41/8" x .043" Layered Steel (each)	\$26.18
10 pack	\$253.75
41/8" x .030" Layered Steel (2 pack)	\$53.91
For S&S Bores	
41/8" x .043" Graphite (each)	\$10.96
10 pack	\$101.07
43/8" x .045" Copper (2 pack)	\$56.83
17. Alignment dowel, base and head <i>16595-99A</i> (each) 50-8177	\$2.26
4 pack	\$8.23
18. Alignment dowel o-ring — Base (all bore sizes)	
S&S heads 3¾" bore only 11105, 11273 each	ć1 05
10 pack	\$1.05 \$8.41
19. Plug, HH - 14mm (<i>each</i>)	\$10.33
2 pack	\$18.83
20. Washer, compression – 14mm	710.05
507" x .705" x .047" (each)	\$4.29
21. Head mount bolt – 3/8"–16 x 11/4" 4716W	
each	\$1.03
22. Flat washer – 3/8" (each)	\$1.15
	71.15
23. Vent hose fitting, (For 41/8" Bore Only) Front, 1/16"-27 pipe	\$2.46
Rear, %"-27 pipe	\$2.46
	\$7.46
24. Check Valve (For 41/8" Bore Only) 50-8122	\$7.40
25. Base Gaskets	
For S&S Bores	ć12 11
4%" x .018" Graphite (2 pack) 93-1082 4%" x .018" Graphite (each) 93-1048-5	\$13.11
10 pack	\$5.51
4" x .018" Graphite (each) 93-1050-S	\$50.30
For Stock Bolt Pattern	\$3.47
4½" x .018" Graphite (each)	\$8.57
10 pack	\$71.43
26. Base O-ring (Used for early S&S bores)	
4" x .103" (each)	\$4.52
35%" or 3½" x.103" (each) 11256	\$4.25

VALVE SPRING REPLACEMENT PARTS: SEE PAGE 90





S&S® TOP END GASKET KIT FOR S&S ENGINES

Bore	Part No.	MSRP
43%"	90-9511	\$84.51
41/8" Stock Cases	90-9510	\$87.43
4" Stock Bolt Pattern	90-9505	\$75.77
37%" Stock Bolt Pattern	90-9504	\$73.40

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 kits" on page 77 to order separately.

VALVE GUIDE DIAMETERS FOR S&S® T-SERIES ENGINES

Oversize	Diameter	Part Number	MSRP
Std.	.5625/.5620	90-2210 USA _{1,2,3} (UV _{1,2,4,5,6,7}	\$10.49
+.001	.5635/.5630	90-2211	\$43.71
+.002	.5645/.5640	90-2212	\$43.71
+.003	.5655/.5650	90-2213	\$43.71
+.050	.5925/.5920	90-2219	\$36.43

VALVE SPRING REPLACEMENT PARTS

.720" & .660" Lift Valve Springs (B3 Cylinder Heads)

1.	Seal, valve guide, intake/exhaust 18001-83B (each)	\$2.20
	8 pack 90-2158	\$16.83
2.	Keeper, valve spring, SA	\$5.04
	Valve spring shim	
	.015" (each)	\$1.05
	5 pack	\$4.21
	.030" (each)	
	5 pack	\$6.76

.650" Lift Valve Springs (B2 Cylinder Heads)

1.	Seal, Valve Guide, fits .315" x .554"OD, Viton®	\$6.56
2.	Keeper, valve spring, Standard, 9° Degree	\$2.19

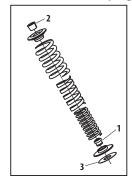
.650" Lift Sidewinder® Valve Springs (Stock, Super Stock® & CNC Ported Cylinder Heads)

1. 2. 3. 4.	Spring, Valve .650" 106-5689 Collar, Top, Steel 106-5690 Collar, Bottom, Steel 106-5691 Seal Valve 106-5691	\$34.97 \$6.19 \$4.52
4.	S&S CNC Ported Heads & 2005-up bt w/7mm valve stem 106-5688	\$2.24
5.	Keeper, valve spring	\$1.46 \$6.56 \$2.62
6.	Valve Spring Shim .015" (each) .500-0013 .030" (each) .500-0014	\$1.18 \$1.18

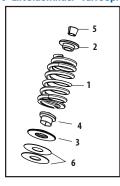
.585" Lift Valve Springs (Stock, Super Stock® & CNC Ported Cylinder Heads)

1. 2. 3.	Spring, Valve .585"	900-0444 900-0550	\$26.23 \$5.83
٥.	For Stock Heads w/7mm valve stem (includes seal)	.900-0549	\$83.70 \$8.74 \$6.92
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		\$83.70 \$2.24
	.420" Cast		\$1.46 \$6.56
5.	Keeper, valve spring For Stock and CNC Ported Heads		\$2.62 \$2.19
6.	Valve spring shim For Stock and CNC Ported Heads	202.2	
	.015"		\$1.18 \$1.18
	For Super Stock Heads .015"030"		\$1.05 \$1.47

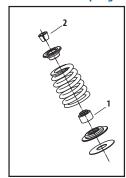
.720" & .660" Lift Valve Springs



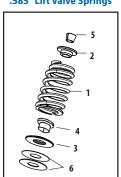
.650" Lift Sidewinder® Valve Springs



.650" Lift Valve Springs

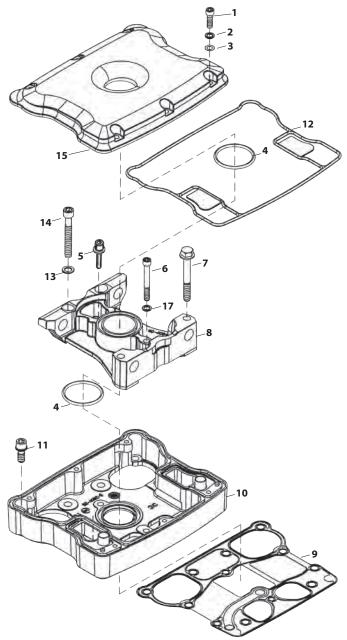


.585" Lift Valve Springs



DIE-CAST ROCKER COVER REPLACEMENT PARTS FOR 2007-2015 BIG TWIN ENGINES

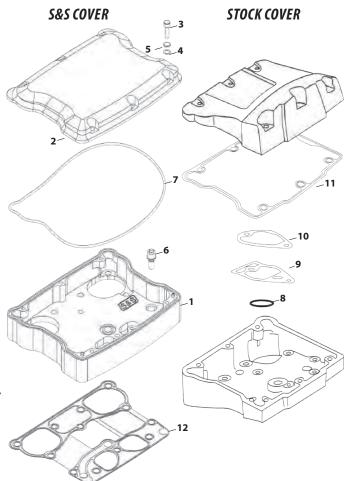
		44.44
1.		\$1.03
2.	Washer, flat ¼" (each)	\$1.03
	12 pack	\$6.16
3.	Washer, silicone coated ¼" (each)	\$1.15
	8 pack	\$5.55
	12 pack	\$9.49
4.	Seal, o-ring	
	(Included in gasket kit see #16 below.)	
5.	Screw, socket head, 1/4"-20 x 1" 4741A	
	each 50-0092-S	\$1.31
	4 pack	\$3.88
6.	Screw, socket head, 1/4"-20 x 2" 25794-36 50-0013	\$1.25
7.	Screw, hex flange head, 5/16"-18 x 2½" 3501 50-0123	\$1.57
8.	Support, rocker arm	\$52.46
9.	Gasket, rocker cover, Graphite	
	For Stock or S&S rocker covers on stock heads 16719-998	
	each 90-4071-S	\$4.60
	2 pack	\$9.19
	10 pack	\$69.19
	For Stock rocker covers on S&S heads (each) 90-4124	\$13.22
	2 pack	\$23.42
10.	Housing, rocker, Chrome	\$246.50
11.	Screw, socket head, 5/16"-18 x 1" 50-0125-S	\$1.84
12.	Seal, rocker cover	
	(Included in gasket kit see #16 below.)	
13.	Washer, flat 5/16" (each) 50-7056	\$5.16
14.	Screw, socket head %6"-18 x 2¼"	
	each	\$1.17
15.	Cover, rocker, chrome USA _{1,2,3} UV _{1,2,4,5,6,7} 900-0706	\$159.50
16.		\$54.51
17.	Washer, 261" x .474" x .050", Annealed, Stainless Steel	
	each	\$1.03



BILLET ROCKER COVER REPLACEMENT PARTS FOR 1999-2017 BIG TWIN ENGINES (DISCONTINUED) EXCEPT 2017 TOURING MODELS

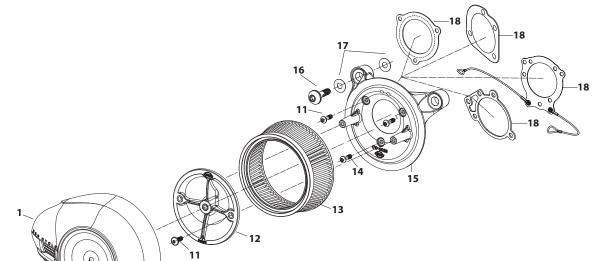
1.	Base assembly, rocker		
2.	Top, rocker cover		
3.	SHCS, 1/4"-20 x 3/4" 4069A (each)	\$1.03	
4.	Washer, flat, chrome, 260" x .425" x .060"	7.105	
٦.	each	\$1.03	
	12 pack	\$1.03 \$6.16	
5.	Washer, flat, rubber coated, ¼" x 7/16" x .020"	J0.10	0
٦.	each	\$1.15	6
	8 pack	\$5.55	
	12 pack	\$9.49	
6.	SHCS, 5/6"-18 x 1" with flatwasher	\$1.84	
7.	O-ring, rocker cover seal. Viton®	Ţ.10.	
,,	(Included in gasket kit #90-4073. See below)		
8.	O-ring, (-114), .625" ID x .937" OD <i>11270</i>	\$1.46	
9.	Gasket, Breather Baffle, Stock Pattern, Paper, 1999–'10 bt		
	17162-03, 17592-99 each	\$1.03	
10.	Gasket, Breather Cover, Stock Pattern, Paper, 1999–'10 bt		
	17591-99, 17162-03, 17592-99 each	\$1.03	
11.	Gasket, Rocker Cover, Steel, 1999-up bt 17386-99A 90-4096-S	\$11.66	
12.		,	
12.	2 pack	\$9.19	
	10 pack	\$69.19	1
13	Gasket kit, rocker cover (includes gaskets for 2 rocker covers) (Not Show	wn)	
15.	For S&S billet rocker covers	¥11 <i>)</i>	
	(includes #5,7,8,9,10,12) 90-4073	\$39.81	
	For 1999-'10 bt		
	(includes #8,9,10,11,12)	\$65.57	

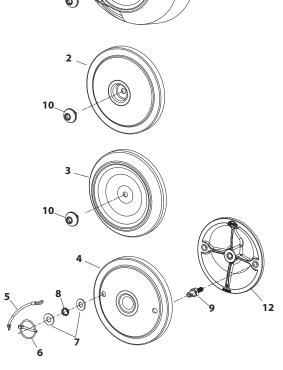
${\it N/A}={\it No longer available}$



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STEALTH REPLACEMENT PARTS



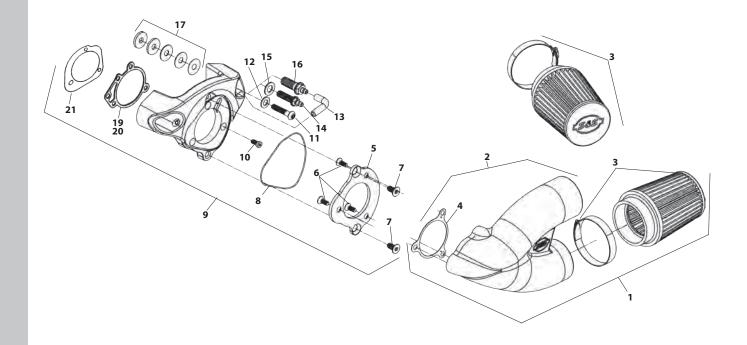


	Course Air Classes Airesterance	
1.	Cover, Air Cleaner Airstream Chrome	\$142.80
	WBlack	
2.	Cover, Air Cleaner, Domed Bobber	<i>₹1</i> 72.00
۷.	Chrome	\$96.83
	Black Jack	7
3.	Cover, Air Cleaner, Dished Bobber	,,,,,,,
٥.	Chrome	\$96.83
	WBlack	
4.	Cover Air Cleaner, Muscle	
	Chrome	\$137.66
	WBlack	
5.	Lanyard, 6" Stainless Steel	\$6.28
6.	Lynch Pin	
7.	Washer, Fender, Chrome Plated	
8.	Spring, Wave Washer, Stainless Steel 500-0093	\$4.85
9.	Screw, Hex, Hood-pin, 1/4-20, UNC	\$7.14
10.	Air Cleaner Cover Screw, SHCB, 5/16"-18 UNC X .500"	\$10.16
11.	Screw, SHC, Flanged Button, 1/4-20 UNC x .750" 500-0060	\$2.00
12.	Top Plate, Air Filter, Molded, Plastic	\$10.88
13.	Filter, Air, Tapered,	
	Standard Pleated, Cotton, Stealth Air Cleaner Kit 170-0126	\$40.76
	1" Taller Pleated, Cotton, Stealth Air Cleaner Kit 170-0127	
	1" Taller Pleated, Cotton Filter Only 170-0154	
14.	Screw, SHCB, ¼-20 UNC X .825" 500-0059	\$1.28
15.		
	1993-up Stock CV Carb; 2001-up Delphi® EFI	
	(except Throttle by Wire)	
	2008-up bt, Delphi® EFI w/Throttle by Wire 170-0065	\$45.83
16.	Screw, Backplate Vent, SHCB, %–16 x 1½", Polished Stainless	
		\$10.16
17.	Washer,Flat, ,Nitrile Rubber Coated, .380" x .880" x .024"	44.42
	each	
10	10 pack	\$11.18
18.	Gasket, Backplate Stock CV Carb & EFI Throttle Body, 1991-up bt	
	(except Throttle by Wire) 29062-958 106-6022	\$1.46
	2008-up bt, Throttle by Wire	
	Super E/G,CV Adapter	
	w/lanyards for use with Muscle Cover	
	manyanas for use manimusee cover	710.71

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	
	Wrinkle Black	\$260.94
	Chrome Plated	\$271.38
2.	Tuned Intake Assembly, 2.19" Single Bore	
	Natural	\$136.33
	Wrinkle Black 106-4969	\$150.16
	Chrome Plated 106-4970	\$167.42
3.	Air Filter, w/clamp, Stainless Cap — Conical — 27/16" I.D. x 4"	
	Red (each)	\$54.00
	Blue (each)	\$54.00
4.	Gasket, Intake — Adapter Plate	\$1.60
5.	Plate, Adapter, 2.19" Single Bore Tuned Intake	
	Chrome Steel	\$46.63
6.	FHSC ¼-20 x 5/8" (each)	\$2.46
7.	FHSC 5/16-18 x 5/8" (each)	\$4.25
8.	O-Ring, Adapter Plate Bracket 35%" O.D. x 31/2" I.D. 1/16 CS, Viton	
	each	\$2.36
9.	Bracket Kit, 2.19" Single Bore Tuned Intake, Chrome	
	Single VFI, S&S T124 106-4976	\$313.14
	Single VFI, 1984-up BT	\$313.14
	Stock Carb, Delphi® EFI, 1984-up BT 106-4978	\$313.14
10.	Backplate Screw, SHC, w/Threadlock, ¼-20 x ½" (each) 106-2084	\$1.06
	10 pack	\$6.83
11.	Screw, \% -18 x 1\%, BHC, Chrome (each)	\$4.76
12.	Flat Washer 5/16" x 1/16" 6320, 70907-07, 6016, 6702	\$0.26
13.	Hose, Breather, ¼" I.D., 90°	\$4.78
14.	Screw, Breather Fitting, % -16 x 1¼" 50-0436	\$10.55
	Washer, Flat, 3%" x 13/16" x 1/16", Chrome	\$2.56
16.	Screw, Breather Fitting, ½ -13 x 1.25	\$10.55

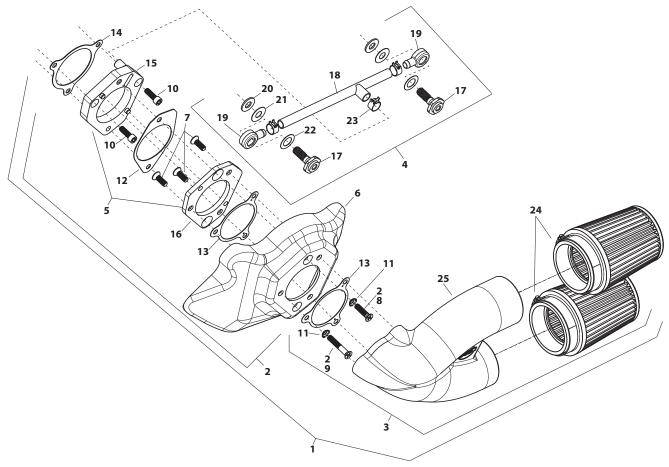
17.	Shim Kit	
	(a) 5/16" I.D. S&S 41/8" engines	\$9.28
	Includes:	
	.325" x 1" x .018", Stainless Steel (each)	\$1.05
	.325" x 1" x .030", Stainless Steel (each)	\$1.05
	.325" x 1" x .048", Stainless Steel (each)	\$1.05
	.325" x 1" x .105", Stainless Steel (each)	\$1.73
	.325" x 1" x .125", Stainless Steel (each)	\$1.68
	(b) ½" I.D. 1993-up BT	\$16.15
	Includes:	
	.515" x 1" x .018", Stainless Steel (each)	\$1.46
	.515" x 1" x .030", Stainless Steel (each)	\$0.57
	.515" x 1" x .048", Stainless Steel (each)	\$1.56
	.515" x 1" x .105", Stainless Steel (each)	\$1.57
	.515" x 1" x .125", Stainless Steel (each)	\$3.10
19.	Gasket, Backplate - E/G/SBEFI (each)	\$1.57
	10 pack	\$13.87
20.	Gasket, Backplate, S&S SBEFI 58mm	\$3.10
21.	Gasket, Backplate, Stock carb/Throttle Body 29062-958 106-6022	\$1.46
	Hardware Kit	
	2007-'12 bt, except 2008-'12 Touring	
	(indudes #7, 8, 10, 11, 12, 13, 14, 15, 16, 17a, 17b, 19, 21) 17-5098	\$85.62
	S&S 41%" Bore Heads (includes #7, 8, 10, 11, 12, 13, 17a, 19) 500-0016	\$52.76
	2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.	,



THROTTLE BY WIRE SINGLE BORE TUNED INDUCTION REPLACEMENT PARTS FOR 2008-2016 TOURING MODELS

1. 2. 3.	Intake Runner, Kit, Single Bore, 2.19", 2008–Up Touring (S Installation Kit, Throttle by Wire, 2008–up bt Intake Runner, Single Bore, w/Gasket & Air Filter, 2.19"		\$217.44
	Wrinkle Black	106-4966	\$260.94
	Chrome Plated		\$271.38
4.	Breather, Kit, Throttle by Wire, 2008-up bt	106-4827	\$35.66
5.	Mount, Kit, Spacer/Adapter, Throttle by Wire, 2008-up bt	106-4824	\$157.64
6.	Cover, Induction Module, Throttle by Wire, Plastic, 2008-up		\$17.49
7.	Screw, FHSC, 1/4–20 x 3/4", Zinc Plated		\$1.05
8.	Screw, FHSC, 1/4-20 x 1", Black Chrome		\$4.37
9.	Screw, FHSC, ¼-20 x 1½", Black Chrome.	106-4829	\$4.37
10.	Screw, SHC, 1/4-20 x 3/4", Chrome, ASTM A574-92A 4069A	. 50-0067	\$1.03
	Washer, countersunk, external tooth, ¼" x ½", parkerized		
	,, ,		\$1.02
12.	Gasket, Intake Adapter, Throttle by Wire, 2008-up bt		\$1.65
	Gasket, Intake Adapter, .020", 2.19", Gray, Paper		\$1.60
	Gasket, Throttle Body, Throttle by Wire, 2008-up bt 29645-0		
	each		\$2.00
	Gasket, S&S Throttle Hog, 58mm		\$2.00
	Gasket, S&S Throttle Hog, 66mm & 70mm		\$1.43
15.	Spacer, Plate, Throttle By Wire, Intake Runner, 2008-up bt		\$101.96
	Adapter, Plate, Throttle by Wire, Intake Runner		\$40.76
	Screw, Breather, 3%–16 UNC, +.250, 2008 Touring (each)		\$12.58
	seem, steamen, to one, 1.250, 2000 fouring (cutif) 1.		

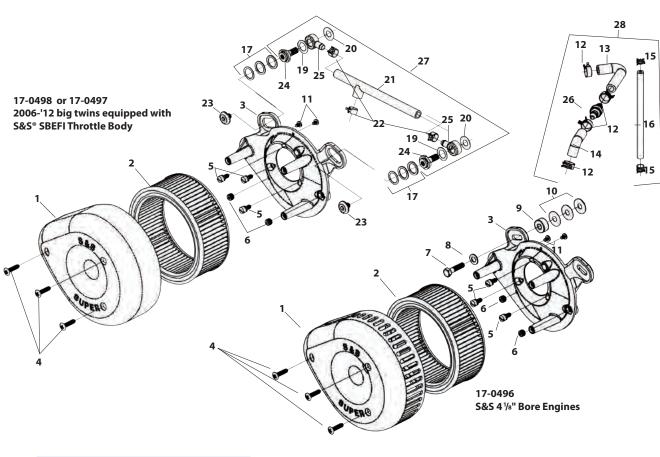
18.	Hose, Vent, Breather	\$6.35
	Fitting, Vent, Aluminum Alloy (each) 17-0350	\$3.57
	2 pack	\$6.27
20.	Washer, Flat, .375" x .813" x .063", Zinc, Steel	
	each	\$1.15
21.	Washer, Flat, .380" x .880" x .024", Nitrile Rubber Coated, Cold Rolled S	iteel
		\$1.12
	10 pack	\$11.18
22.	Washer, Flat, .520" x .880" x .024", Nitrile Rubber Coated, Cold Rolled S	iteel
	each	
	10 pack	\$11.18
23.	Clamp, Spring, %6"	\$0.48
	Air Filter, with Clamp, Stainless Cap, Conical, 27/16" I.D. x 4"	701.10
	Red (each)	\$54.00
	Blue (each)	\$54.00
25	Intake Runner, Single Bore, 2.19" + Gasket	75 1.00
23.	Natural	\$136.33
	Wrinkle Black. 106-4966	\$150.33
	Chrome Plated 106-4970	\$167.42
26	Oil, Air Filter, 8 oz. (Not shown)	₹107. 1 2
20.	Red	\$16.03
	Blue. 106-1164	\$16.03
	Diuc100-1104	دن.0۱ ډ



CLASSIC TEARDROP AIR CLEANER REPLACEMENT PARTS FOR S&S® SINGLE BORE EFI

1.	Air Cleaner Cover		
	Slasher (slotted chrome)	17-0004	\$150.29
	Chrome	17-0378	\$150.29
	Gloss Black (includes black screws)	. 170-0384A	\$145.00
2.	Element, pleated	106-4722	\$21.86
3.	Backplate SBEFI		
	2006-'16 bt	17-0120	\$76.53
	S&S 41/8" bore engines	17-0380	\$98.58
4.	Screw, Cover, oval ¼-20 x 1		770.30
	Chrome 1305 (each)	50-0072	\$1.03
	3 pack	50-1052	\$2.30
	10 pack	50-0094	\$7.46
	Black 902 (each)		\$3.31
	3 pack	50-0310	\$9.65
5.	Backplate screw	50 0510	•
٠.	Zinc Plated (each)	106-2084	\$1.06
	10 pack		\$6.83
6.	Pipe plug, 1/8, air cleaner backplate 45830-48 (each)		\$1.46
٠.	10 pack	50-1015	\$5.83
7.	Mounting bracket bolt, hex 5/16-18 x 11/4	50-0110	\$0.47
8.	Flat washer, 5/16" x 1/16" 6320, 70907-07, 6016, 6702		\$0.26
9.	Shim, .850" x .325" x .400"		\$3.09
10.	Shim kit for 4½" bore		\$9.28
	Individual shims:	12 0011	
	5/16" X .018" (each)	50-7038	\$1.05
	5/16" X .030" (each)		\$1.05
	5/16" X .048" (each)		\$1.05
	5/16" x .105" (each)		\$1.73
11.	Screw,PH,10-24 x ¼",Zinc,Steel (each)		\$1.08
•	10 pack	50-0062	\$3.74
12.	Clamp,Spring,.660"	. 50-8076-S	\$1.05
13.	Hose, Rear, Vent, Breather, Formed, Section 1, SAE J30	. 50-8262-S	\$12.20

	Hose,Rear,Vent,Breather,Formed,Section 2,SAE J30		
	Clamp,Spring,.440"		
16.	Hose, Cut To Size, 1875" x 6", Black, Rubber 5	0-8142AS	\$3.35
17.	Shims, individual		
	% x % x .025 (each)	. 50-7113	\$1.05
	10 pack		\$6.00
	5⁄8 x 1/8 x .050 (each)	. 50-7114	\$1.03
	10 pack		\$7.80
	% x 7/8 x .075 (each)	50-7115	\$1.11
	10 pack	50-7112	\$10.83
18.	Air cleaner hardware kit		
	2006-'16 bt (includes #4, 5, 6, 11, 17, 23)	17-0482	\$19.25
	S&S 41/8" bore (includes #4, 5, 6, 7, 8, 9, 10, 11)		\$23.52
19.	Silicone washer, ½" ID (each)		\$1.12
	10 pack		\$11.18
20.	Silicone washer, 3%" ID (each)	50-7054	\$1.12
	10 pack		
21.	Hose, Vent, Breather, Epichlorohydrin Polymer	1.17-0339	\$6.35
	Clamp,Spring,%6"		\$0.48
	Screw, wide head, 5/6-24 x 36.		\$4.04
	Breather vent fitting	. 17 03 10	7
	2006-'16 bt	17-0345	\$11.66
25	Breather fitting (each)		
23.	2 pack		
26	Check Valve	50-8122	\$7.46
	Breather hardware for 2006-'16 bt*		\$35.61
	Breather hardware for 41/8" bore*		\$31.62
20.	(*Not included in air cleaner kit)		1.02 رب





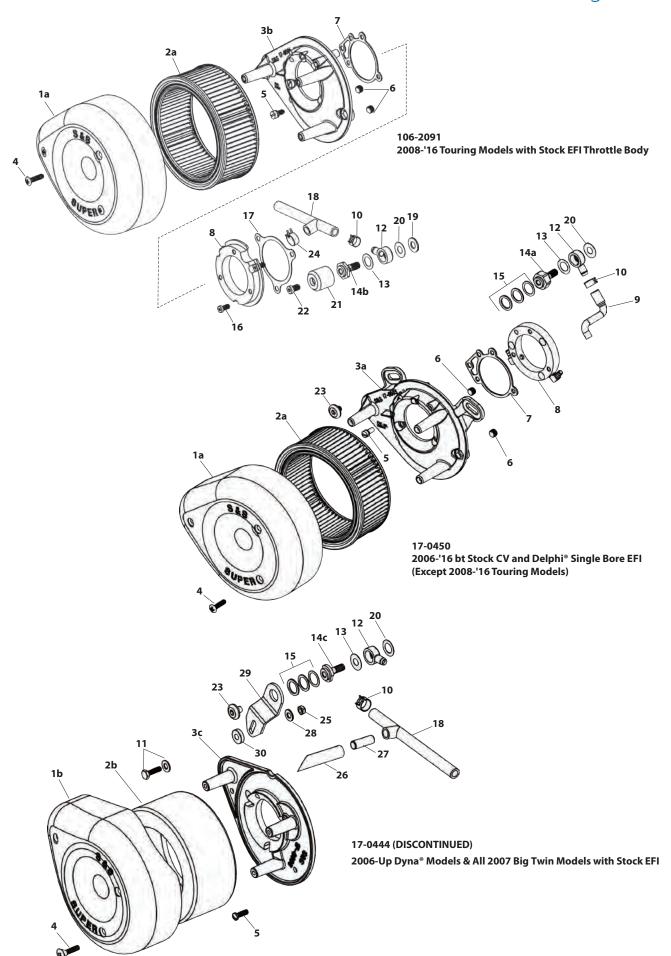
Breather hardware not included in these air cleaner kits.

CLASSIC TEARDROP AIR CLEANER REPLACEMENT PARTS FOR STOCK FUEL SYSTEMS

1.	Air cleaner cover	
	Chrome	\$150.29
	Gloss Black (includes black screws) 170-0384A	\$145.00
	Slasher	\$150.29
2.	Filter Element	
	a. Pleated	\$21.86
	b. Foam (for 17-0444 kit only)	\$17.41
3.	Backplate	
	a. 2006-'16 bt (except 2008-'16 touring models) 106-0907	\$98.58
	b. 2008-'16 touring models	\$98.58
	c. 2006-up Dyna® models & all 2007 bt with stock EFI . 17-0003	\$93.95
4.	Cover screw,1305	
	Chrome (each)	\$1.03
	3 pack	\$2.30
	10 pack	\$7.46
	Black (each)	\$3.31
	3 pack 50-0310	\$9.65
5.	buchpiate sereni, zinter iatea (each, iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	\$1.06
	10 pack	\$6.83
6.	buchpiate plag /c 2/ isoso io (caci)	\$1.46
		\$5.83
	Backplate plug .285" x .170"	\$0.47
7.	Gasket, backplate	
	CV Adaptor, .0625" (each)	
	10 pack	\$13.87
	2006 - '12 bt <i>29062-958.</i>	\$1.46
8.	Adaptor assembly	45.04
	2006-'12 bt (except 2008-'12 touring models) 106-0881	\$56.04
•	2008-'12 touring models	
9.	Hose, vent, breather, .250" x .375" x 1.825" (each) 17-0364A	
	Clamp, spring, %"	\$0.48
	Screw, w/lockwasher SLTD FH,¼-20 x ¾",Zinc,Steel 50-0073	\$1.08
12.	Banjo fitting (each)	\$3.57 \$6.27
12	2 pack	\$0.27 \$1.12
15.	Washer, silicone coated steel, %" (each)	\$1.12 \$11.18
14	10 pack	١١،١٥
14.	a. +.250", 2006-'12 bt (except 2008-'12 touring models) 17-0348	¢0 11
	b. %-16 UNC, +.250, 2008-'12 Touring (each) 106-2667	\$12.58
	c. %-16 NC, 2006-up Dyna models & all 2007 bt 17-0345	\$11.66
15	Replacement shims	711.00
15.	%" x .025" (each)	\$0.73
	·	\$6.00
	%" x .050" (each)	
	10 pack	
	%" x .075" (each)	\$1.11
	10 pack	
16.	Screw, LSHC, ¼-20 x ½", zinc plated (<i>each</i>)	\$1.05
	10 pack	
17.	Gasket, throttle body, throttle by wire, 2008-up BT 29645-08	
	each	\$2.00
18.	Hose, vent, breather	\$6.35
19.	Washer, flat, .375" x .813" x .063", zinc, steel	
	each	\$1.15

20.	Washer, silicone coated steel ½" (each)	¢1 12
	10 pack	
21.	Cover, breather screw, chrome, aluminum	
	Screw, LSHC, 5/16-24 x 1/2", stainless steel	
		\$4.04
24.	Clamp, Spring, .660" 50-8076-S	\$1.05
	Nut, HH, 1/4–28 UNC-2B x .328", Zinc, Steel 50-5010	
26.	Vent hose, with angle cut	\$2.84
27.	Hose fitting	\$6.00
		\$1.08
	Carb support bracket	
30.	Shim - 1/4" x 3/4" x .200"	\$1.95
31.	Mounting Hardware Kit	
	2006-'12 bt (except 2008-'12 touring models) 106-0838	\$53.91
	(includes 7,5,25,11,9,19,14,12,10,26,33)	
	2008-'12 touring models	\$87.43
	(includes 7,23,24,15,5,16,22,17,11,18,12,19,10,27,33)	
	Cable Tie (N/S)	
33.	Screw,PH,1/4-20 x 1",Nickel,Stainless Steel 1305 (N/S) 50-0072	\$1.03

(N/S) = Not Shown

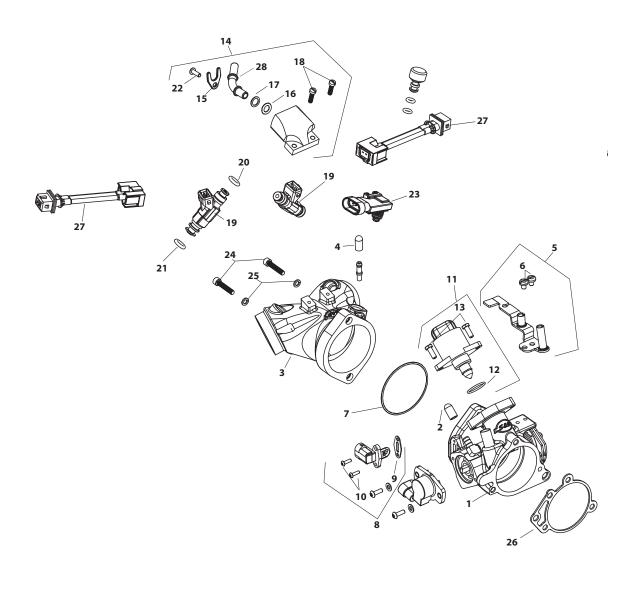


SINGLE BORE EFI THROTTLE BODY AND RELATED REPLACEMENT PARTS

1.	Throttle body	
	52mm, 2006-'16 bt (N/S)	
	58mm, 2006-'16 bt (N/S)	\$255.74
2.	Cap, canister purge (each)	\$4.09
3.	Manifold (See page 58)	
4.	Cap, rubber, manifold, fitting	\$1.33
5.	Throttle cable guide packet with hardware	
6.	Screw, cable guide & air cleaner backplate (each) 50-0041	
	10 pack	
7.	O-ring, throttle body to manifold <i>27270-95</i> 50-7967-S	\$0.47
8.	Intake air temperature sensor with hardware 27270-95	
	55-5041	\$15.21
	Gasket, IAT	
	Screw, M3, IAT	\$0.58
	Idle air control motor SS EFI with hardware	
	0-ring, IAC	
13.	Screw, Idle air control motor	44.05
	2006-'16 (each)	\$1.05
14.	Fuel rail kit	¢111 15
	2006-'16 (Fuel inlet tube not included.)	
	Tube clip, fuel rail inlet 2001-'16 (each)	
	O-ring, fuel rail inlet, 2001-'16 27237-95 (each)	
	Backing washer, fuel rail inlet, 2001–'15	
18.	Screw, rail, 1995-'16 (<i>each</i>)	
10	10 Pack	\$4./8
19.	Fuel injector (each)	\$103.81
20	2 Pack	\$187.80 ¢1.00
	O-ring, injector top, black	
	0-ring, injector bottom, orange 50-8265-S Screw, fuel rail (each) 50-0358-S	
	MAP sensor 32424-98, 32416-10, 32417-10	
	Screw, throttle body to manifold (each)	
	Gasket, backplate	30.20
20.	52mm (each)	¢1 57
	10 pack	
	58mm (each). 106-4662	
27	Harness, injector adapter kit	01.00
۷1.	1995-'05	\$14 57
	2006-'16 (N/S) 35-5074	\$10.58
28	Fuel inlet tube 45°, 2002-'16 27221-95	\$71.86
20.	Spacer, throttle position — 2002-16 (N/S)	\$5 1N
۷۶.	spaces, unotue position – 2002- 10 (19/3)	11.10

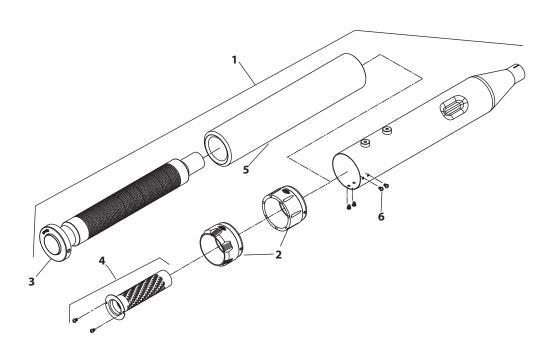
(N/S) = Not Shown N/A = Not Available





Mk45 41/2" MUFFLER REPLACEMENT PARTS

1.	4.5" Muffler Assembly Left, Chrome 551-0020 Right, Chrome 551-0021 Left, Black 551-0022 Right, Black 551-0023	MSRP \$204.95 \$204.95 \$293.48 \$293.48
2.	End Cap Thruster, Chrome. 550-0634A Thruster, Contrast Cut 550-0629A Tracer, Chrome. 550-0636A	\$99.00 \$85.00 \$99.00 \$85.00
3. 4. 5. 6. 7.	Tracer, Contrast Cut 550-0632A Main Baffle Assembly, 4.5" Muffler 551-0007 dB reducer 551-0026 Insulation, 4.5" Muffler 551-0003 Button Head Cap Screw, Stainless, ¼"-20X3/8" 500-0441 Hardware Kit, Muffler Clamps And Screws (N/S) 551-0027	\$52.02 \$35.66 \$18.36 \$0.80 \$15.30



1.	4" Muffler assembly with Grand National end cap Left, Chrome 551-0055 Right, Chrome 551-0056 Left, Black 551-0057 Right, Black 551-0058	MSRP \$307.92 \$310.02 \$375.71 \$377.81
2.	4" Muffler assembly Slash Down	
	Left, Chrome	\$317.71
	Right, Chrome	\$323.40
	Left, Black	\$400.22
	Right, Black	\$405.91
3.	End Cap (Left and Right)	\$25.00
4.	EEG AAES	\$60.00
5.	dB killer baffle (Left and Right)551-0063	\$22.75
6.	Button head cap screw, Stainless, 1/4"-20x3/8"	\$0.80
7.	Socket head cap screw, Stainless, 10-32x3/4"	\$1.50
8.	Button head cap screw, Stainless, 10-32x3/8"	\$1.75
9.	Hardware kit, muffler clamps and screws (N/S)	\$15.30

