

# 96" HOT SET UP KIT®

## FITMENT

- 1984-'99 carbureted engines
- 1995-'98 EFI engines

## FEATURES AND BENEFITS



- Economical route to a large displacement motor
- Enhance performance with the addition of S&S® Super Stock® cylinder heads
- Includes a 96" Sidewinder® kit with 4½" stroker flywheels assembled with mainshafts and rods, 3½" bore cylinder and piston kit, an S&S 585 cam, .585" valve springs, adjustable chromoly pushrods, an HL<sub>2</sub>T kit, a Super E carb kit, and installation instructions



## OPTIONS

- Kits are available with S&S Super Stock® heads or without heads if S&S Performance Replacement heads or stock heads will be used
- Configured to order – Get what you want and need
- Factory installation available – See S&S Service & Speed Center on PAGE 506

### S&S® 96" HOT SET UP KIT® SPECIFICATIONS

Displacement	Stroke	Bore	Compression Ratio			Piston Type	Cylinder Length	Application	Engine Life
			Stock Heads	S&S Super Stock Heads	S&S 82cc Performance Replacement Heads				
96"	4½"	3½"	9.75:1	10.1:1	9.5:1	Forged	5.565"	Street and Strip	Good

S&S 96" HOT SET UP KIT® WITHOUT HEADS FOR HARLEY-DAVIDSON® EVOLUTION® ENGINES							
	Year Group	Stroke	Fuel Delivery	Cam	Finish	Part No.	MSRP
	1984-'92 bt	4½"	Super E	585	WBlack	<b>32-2298</b>	\$2,983.34
	1993-'99 bt	4½"	Super E	585	Natural	<b>32-2297</b>	\$2,882.99
					WBlack	<b>32-2299</b>	\$2,983.34
		Specify	Specify	Specify	Specify	<b>106-5836</b>	Call for Pricing

S&S 96" HOT SET UP KIT® WITH S&S® SUPER STOCK® HEADS FOR HARLEY-DAVIDSON® EVOLUTION® ENGINES							
	Year Group	Stroke	Fuel Delivery	Cam	Finish	Part No.	MSRP
	1993-'99 bt	4½"	Super E	585	Natural	<b>90-0122</b>	\$3,694.02
					WBlack	<b>90-0123</b>	\$3,894.72
		Specify	Specify	Specify	Specify	<b>106-5836</b>	Call for Pricing

## NOTES

IMPORTANT: 1977-'89 style pinion gears, spacer, and nut are required when installing S&S flywheel assemblies. For installation in 1990-'99 or scratch built engines, order S&S Pinion Shaft Conversion Kit 33-4148.

S&S can provide quality, professional machine shop and engine building services through our remanufacturing program. 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.

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..

# 89" STROKER KIT

## FITMENT

- 1984-'99 carbureted engines
- 1995-'98 EFI engines

## FEATURES AND BENEFITS

- Stock, S&S Super Stock® or performance replacement heads can be used with this configuration, depending on which pistons are purchased with the stroker flywheels.
- 89" strokers can be installed in carbureted or fuel injected engines. Note that recalibration of the fuel injection system is required.
- Requires a simple crankcase clearance operation and normal piston fitting.
- Low cost boost in performance - Add S&S 3⅜" cylinders later for 96" engine



## S&S® FLYWHEEL ASSEMBLIES FOR S&S® 89" STOCK BORE STROKER KITS FOR HARLEY-DAVIDSON® EVOLUTION® ENGINES

Application	Part No.	MSRP
Carbureted	<b>32-2230</b>	\$1,260.93
Fuel Injected	<b>32-2146</b>	\$1,260.93

## S&S® 89" STOCK BORE STROKER KITS FOR HARLEY-DAVIDSON® EVOLUTION® ENGINES SPECIFICATIONS

Displacement	Stroke	Bore	Compression Ratio*	Piston Type	Cylinder Length	Application	Engine Life
89"	4⅞"	3½"	9.25:1	Forged	Stock	Trips	Very Good

\* Compression ratio with stock heads.

1990 and later installations require 1977 to 1989 pinion shaft gears. Kit 33-4148 includes cam and oil pump drive gears, spacer and nut.



**THESE KITS REQUIRES SPECIAL S&S PISTONS.** Order the required piston oversize from the chart below.



**106-5554**

## 3½" BORE FORGED STROKER PISTON KITS FOR STOCK HEADS OR S&S PERFORMANCE REPLACEMENT HEADS

Standard	MSRP	+0.010"	MSRP	+0.020"	MSRP	+0.030"	MSRP
<b>106-5554</b>	\$322.58	<b>106-5555</b>	\$322.58	<b>106-5556</b>	\$322.58	<b>106-5793</b>	\$322.58

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

Recommended cast piston fitment: Close: 0.0008" – 0.0013" Loose: 0.0020" – 0.0025"

## 3½" BORE FORGED PISTON KITS FOR S&S® SUPER STOCK® HEADS

Displacement	Stroke	Piston Deck Height	CR	Standard	MSRP	0.005"	MSRP	+0.010"	MSRP	+0.020"	MSRP	+0.030"	MSRP
89" LC	4⅞"	1.1875"	10:1	<b>92-2046</b>	\$366.71	<b>92-20465</b>	\$321.95	<b>92-2047</b>	\$366.71	<b>92-2048</b>	\$366.71	<b>92-2049</b>	\$321.95
89" HC	4⅞"	1.1875"	12.2:1	<b>92-2016</b>	\$366.71	-	-	-	\$366.71	<b>92-2018</b>	\$366.71	-	-

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

Recommended cast piston fitment: Close: 0.0008" – 0.0013" Loose: 0.0020" – 0.0025"

## NOTES

If ordering replacement pistons for an older 89" Stroker Kit, the flywheels will require rebalancing.

S&S Super Stock cylinder heads do not have provision for the stock head temperature sensor. For this reason they are not compatible with fuel injected applications. Fuel injected stroker engines must use stock cylinder heads or S&S performance replacement heads. (See PAGE 234)

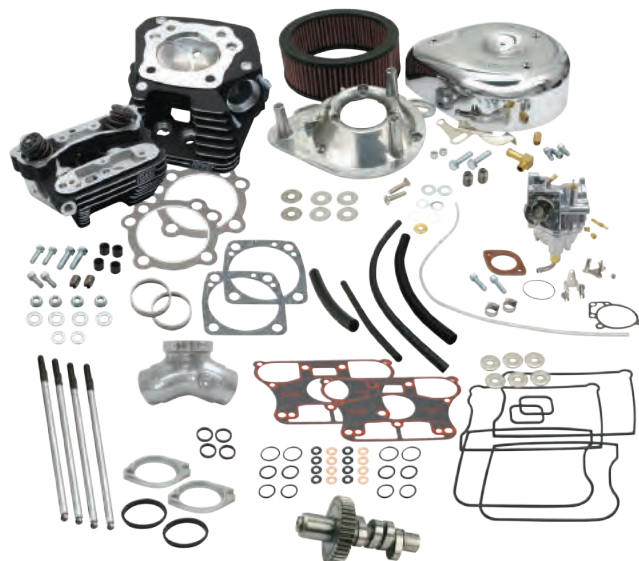
# 80" HOT SET UP KIT®

## FITMENT

- 1984-'99 carbureted engines

## FEATURES AND BENEFITS

- Installation is as easy as a stock top-end rebuild
- Flywheel rebalancing is not required
- Yields 80 cubic inches at 10.2:1 compression ratio with included S&S cylinder heads
- Includes S&S Super Stock cylinder head kit with valves and springs installed, manifold with o-rings and flanges, required hardware, top end gaskets, an S&S 561 cam, adjustable chromoly pushrods, an HL<sub>2</sub>T kit, a Super E carb kit, and installation instructions
- Pistons of the required oversize must be ordered separately. Pistons fitted to S&S cylinders are also available



### S&S® 80" HOT SET UP KIT® FOR HARLEY-DAVIDSON® EVOLUTION® ENGINES SPECIFICATIONS

Displacement	Stroke	Bore	Compression Ratio	Piston Type	Cylinder Length	Application	Engine Life
80"	4¼"	3½"	10.2:1	Forged	Stock	Trips	Very Good



90-0082

### S&S® 80FLSS HOT SET UP KITS® WITH SUPER STOCK® CYLINDER HEADS FOR CARBURETED HARLEY-DAVIDSON® EVOLUTION® BIG TWINS

Model Year	WBlack	MSRP	Natural	MSRP
1984-'92	90-0083	\$2,160.85	90-0081	\$1,960.86
1993-'99	90-0084	\$1,960.86	90-0082	\$2,055.31

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 KITS REQUIRES SPECIAL S&S PISTONS.** Order the required piston oversize from the chart below.



92-2026

### 92-2026 SERIES PISTONS FOR S&S® 80" HOT SET UP KITS® 10:1 COMPRESSION

Standard	MSRP	+ .0005"	MSRP	+ .010"	MSRP	+ .020"	MSRP	+ .030"	MSRP	CYLINDER & PISTON KIT			
										Natural	MSRP	WBlack	MSRP
92-2026	\$366.71	92-20265	\$366.71	92-2027	\$366.71	92-2028	\$366.71	92-2029	\$366.71	91-7213	\$912.07	91-7713	\$1,012.06

## ENGINE OVERVIEW



S&S engines for 1984-'99 Harley Davidson® big twins with carbureted Evolution® engines are available as complete engines. V80 and V111 engines are also available as long blocks, with no fuel or ignition systems. Choose from natural, as-cast aluminum finish, wrinkle black powder coat, or Black Edition finishes. In addition to the S&S line of Performance Engines, emissions compliant engines are available that meet EPA, CARB, and European Union requirements for certain models.

### **BLACK EDITION**

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

### **V124 (124 cid)**

The V124 engine first appeared in the S&S Catalog in 2002, and being the biggest engine we make that will fit in a stock frame for this year group, has been the go-to engine for daily rider hot rods. Natural aluminum, wrinkle black powder coat, or polished finishes. Available as a complete engine only in performance and emissions compliant versions.

### **V111 (111 cid)**

The S&S V111 engine was engineered to be the ultimate sport touring engine. The shorter stroke produces less vibration and engine noise, and it increases engine life. The 111 cid produces plenty of power. Available in natural aluminum, wrinkle black, polished, or black edition finishes. Performance versions are available as long blocks or complete engines. Emissions compliant versions are available as complete engines only. Super E carbs and HI-4N ignition modules are recommended engine management for long blocks.

### **V96 (96 cid)**

The S&S V96 engine has been a popular choice with performance riders and builders since it was introduced in the mid-1990s. Near stock engine height makes it easy to install, and there's plenty of power to pass. Available in natural aluminum, wrinkle black, or polished finishes. Complete engines only. Performance and emissions compliant versions are available.

### **V80 (80 cid)**

The S&S V80 engine is logical choice for riders who just want to repower their trusty Evolution® powered Harley-Davidson® big twin. With slightly more power than a stock 80" engine, the V80 offers great engine life, low vibration, and trouble free operation. Natural aluminum or wrinkle black powder coat finishes. Available as a complete engine or as a long block, without fuel or ignition systems. Super E carbs and HI-4N ignition modules are recommended engine management for long blocks.

# V124 ENGINES

## FITMENT

- 1984–'99 carbureted chassis
- Custom chassis designed for Harley-Davidson® Evolution® engines

## FEATURES AND BENEFITS

- Long piston stroke and high performance gear driven cam result in large horsepower increase over stock engine
- 1.671" diameter crankpin
- .927" wristpin
- Piston cooling jets
- Large fin pack – heads and cylinders
- Press together crankshaft
- HVHP oil pump
- Electric compression release – easy starting under any circumstance
- Natural, Wrinkle Black (WBlack) powder coat, and polished finish. Diamond cut black powder coat, fully polished, and diamond cut fully polished finishes are available, but have longer lead times
- Chrome gearcover, tappet covers, and rocker covers

## CARBURETED ENGINES

- S&S Super G carburetor with slotted "Slasher" air cleaner cover
- Super Stock® ignition system

## FUEL INJECTION ENGINES

- Single bore EFI throttle body with S&S Classic Teardrop air cleaner
- Magneti Marelli® style S&S Variable Fuel Injection (VFI) module with built-in three stage engine overheat protection
- Closed loop fuel system, dual oxygen sensors provide air-fuel ratio feedback for correct fuel delivery under any condition
- Included S&S ProTune II software provides base fuel maps for most aftermarket exhaust systems



31-9886

## S&S® V124 ENGINE SPECIFICATIONS

Displacement	Bore	Stroke	Camshaft	Piston Type	Compression Ratio
124"	4 1/8"	4 5/8"	640	S&S forged	10.8:1


## NOTES

A high performance clutch **must be used**. See PAGE 257 for more information.

If an aftermarket exhaust or intake system is used, the fuel maps must be modified. It is highly recommended that this tuning be done by a certified S&S® VFI tuning center. Visit our website at [www.sscycle.com](http://www.sscycle.com) to locate your nearest certified S&S VFI tuning center. S&S VFI tune files can also be found on our web page and are available for many common exhaust systems.

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

## S&S® V124 ENGINES

Chassis Style	Fuel Delivery	Ignition	Warranty Period	Finish	Part No.	MSRP
1984-'99 Carb	S&S® Super G Carb	Super Stock®	2 Year	Natural	<b>31-9860</b>	\$5,757.00
				WBlack	<b>31-9885</b>	\$6,110.50
				Polished	<b>31-9886</b>	\$6,868.00
	Specify	Specify	Varies	Specify	<b>319-0008</b>	Call for Pricing

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



V111 ENGINES

FITMENT

- 1984-’99 carbureted chassis
- Custom chassis designed for Evolution® engines

FEATURES AND BENEFITS

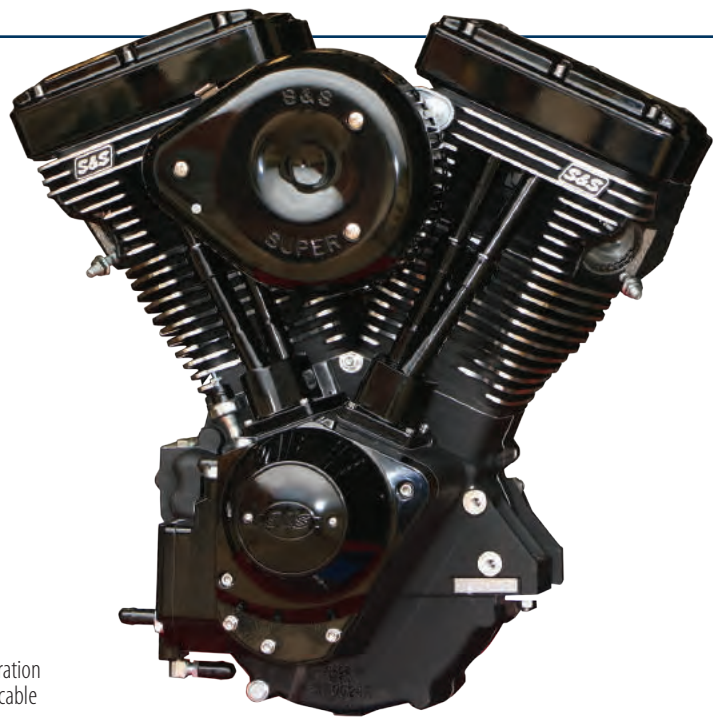
- Short stroke produces less vibration and longer engine life
- Large cooling fins - increases cooling efficiency
- HVHP (High Volume High Pressure) oil pump
- S&S 585 cam and lightweight single coil valve springs minimize valve train noise
- S&S forged rocker arms
- Shorter than stock height engine makes installation easy
- Chrome plated rocker covers, tappet guides, and gearcover

CARBURETED ENGINES (1984-’99)

- S&S Super E carburetor with Classic Teardrop air cleaner


Super Stock® ignition system

- Protects engine with a 3-step break-in rev-limiter during first 24-hours of operation
- Logs engine data that can be viewed via a PC when equipped with diagnostic cable and software part #55-1271
- Initially configured for electric start, however, it is kick-start capable
- Two-year warranty





S&S® V111 ENGINE SPECIFICATIONS					
Displacement	Bore	Stroke	Camshaft	Piston Type	Compression Ratio
111"	4 1/8"	4 1/8"	585	S&S forged	9.8:1

COMPLETE ENGINE REBUILD GASKET KITS

S&S Engine Family	Year Group	Bore Size	Part No.	MSRP
V-Series	1984-’99	4 1/8"	106-0964 	\$116.57

S&S® V111 ENGINES

Chassis Style	Fuel Delivery	Ignition	Warranty	Finish	Part Number	MSRP
1984-’99 Carb	S&S Super E Carburetor	Super Stock®	2 Year	 Black Edition	310-0828	\$6,249.95
				Natural	106-5703	\$5,457.65
				WBlack & Chrome	106-5704	\$5,901.81
				Polished	310-0385	\$6,449.40
	Specify	Specify	Varies	Natural or WBlack Finish	319-0008	Call for Pricing

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

# V96 ENGINES

## FITMENT

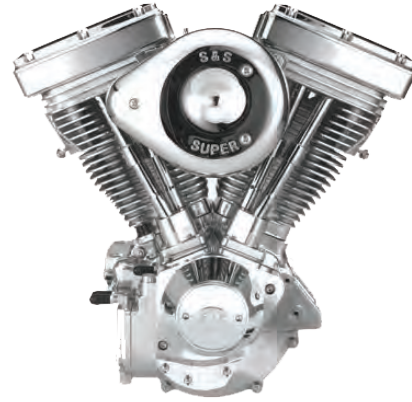
- 1984-'99 carbureted chassis
- Custom chassis designed for Evolution® engines

## FEATURES AND BENEFITS

- Nearly stock height engine makes installation easy (+.015")
- S&S Super E carburetor with Classic Teardrop air cleaner cover
- S&S 585 cam and lightweight single coil valve springs reduce engine noise
- S&S forged rocker arms
- Chrome plated rocker covers, tappet guides, and gearcover

## Super Stock® ignition

- Protects engine with a 3-step break-in rev-limiter during first 24 hours of operation
- Logs engine data that can be viewed via a PC when equipped with diagnostic cable and software part #55-1271
- Initially configured for electric start, however it may be switched to kick-start mode using diagnostic cable and software
- Two-year warranty



31-9955

## S&S® V96 ENGINE SPECIFICATIONS

Displacement	Bore	Stroke	Camshaft	Piston Type	Compression Ratio
96"	3⅝"	4⅞"	585	S&S flat top forged	9.5:1

## COMPLETE ENGINE REBUILD GASKET KITS

S&S Engine Family	Year Group	Bore Size	Part No.	MSRP
V-Series	1984-'99	3⅝"	<b>106-0992</b>	\$123.86

## S&S® V96 ENGINES

Chassis Style	Fuel Delivery	Ignition	Warranty	Natural Finish	MSRP	WBlack Finish	MSRP	Polished Finish	MSRP
1984-'99 Carb	S&S Super E Carb	Super Stock®	2 Years	<b>31-9955</b>	\$5,353.00	<b>31-9956</b>	\$5,706.50	<b>31-9957</b>	\$6,464.00
	Specify	Specify	Varies	<b>319-0006</b>	Call for Pricing	<b>319-0006</b>	Call for Pricing	<b>319-0006</b>	Call for Pricing

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

# V80 ENGINES

## FITMENT

- 1984-1999 carbureted

## FEATURES & BENEFITS

- Adjustable pushrods
- Standard forged rocker arms
- High performance hydraulic lifters
- .585" lift single coil valve springs
- Flat top cast pistons
- 508 cam
- Performance replacement heads

## OPTIONS

- Complete engine with an S&S Super E carb and ignition or basic engines without carb, ignition or oil



310-0233

## S&S® V80 ENGINE SPECIFICATIONS

Displacement	Bore	Stroke	Camshaft	Piston Type	Compression Ratio
80"	3½"	4¼"	508	Cast	8.4:1

## S&S® V80 ENGINES

Chassis Style	Fuel Delivery	Ignition	Warranty	Natural Finish	MSRP	WBlack Finish	MSRP
1984-1999	Super E	Super Stock	2 years	<b>310-0237</b>	\$4,646.00	<b>310-0238*</b>	\$4,999.50

\*EFI Compatible

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.

# V-SERIES LONG BLOCKS

Why rebuild that old stock engine? Upgrade, and replace it with an all-new S&S® V111 or V80 engine. Get a 2-year warranty and a lot more power!

## FITMENT

- 1984-'99 Harley-Davidson® big twin chassis and custom frames designed for Evolution® big twin engines.

## FEATURES AND BENEFITS

- Save time — Replacement is faster than rebuilding.
- Save money — Fuel and ignition systems not included, use the carburetor, air cleaner, and aftermarket ignition you may already have.
- Specially machined cylinder heads allow use of stock length manifolds. Use your existing carb (re-jetting is required)
- EFI compatible - Calibration required (must use aftermarket module or add-on tuner).
- Premium S&S Components - S&S cylinder heads, S&S 585 valve springs, forged rocker arms
- Made in the USA!

## V111

- Easy Installation — Actually shorter than a stock engine. No clearance problems.
- More Power — 111 cubic inches at 9.8:1 compression — runs great on pump gas.
- Superior Cooling — S&S big-fin cylinders with more fin area, and exclusive oil jets to cool the bottom of the pistons.
- S&S HVHP oil pump.

For maximum performance, the following fuel and ignition products are recommended



**310-0766**


## CARBURETED APPLICATIONS

- S&S Super E Carb Kit - 11-0419
- S&S HI-4N Ignition Module Only - 550-0501
- S&S HI-4N Ignition, complete Kit - 550-0502

## SUGGESTED ACCESSORIES

- Stealth Air Cleaner Kits. See PAGE 245

## S&S® V-SERIES LONG BLOCK ENGINES

Displacement	Bore	Stroke	Camshaft	Piston Type	Compression Ratio	Warranty	Finish	Part Number	MSRP
V111	4 1/8"	4 1/8"	585	Forged	9.8:1	2 Year	WBlack	<b>310-0766</b>	\$5,171.69
							 Black Edition	<b>310-0829</b>	\$5,499.95
V80	3 1/2"	4 1/4"	508	Cast	8.4:1	2 Year	WBlack	<b>310-0233</b>	\$4,191.50
							Natural	<b>310-0232</b>	\$3,838.00

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.



# 49-STATE EPA ENGINES

Certified for "new build" bikes, S&S offers two options for 49-state EPA engine packages.

## FITMENT

- Aftermarket frames with motor mounts for 1984-'99 big twins

## FEATURES AND BENEFITS

- 49-state emissions legal
- S&S Delphi® style EFI with Classic Teardrop air cleaner cover
- Chrome gearcover, tappet covers, and rocker covers
- Includes all required certification, documentation and labels
- Two-year warranty



### S&S® V-SERIES 49-STATE EPA ENGINE SPECIFICATIONS

Engine Name	Displacement	Bore	Stroke	Camshaft	Piston Type	Compression Ratio
V124Ei	124"	4 1/8"	4 3/8"	543	S&S Forged	9.0:1
V111Ei	111"	4 1/8"	4 1/8"	543	S&S Forged	9.0:1

### S&S® V-SERIES 49-STATE EPA ENGINES

Engine Name	Chassis Style	Fuel Delivery	Warranty Period	Finish	Part No.	MSRP
V124Ei	1984-'99 carb	EFI	2 years	Black	<b>310-0664</b>	\$7,422.89
				Polished	<b>310-0665</b>	\$7,877.39
V111Ei	1984-'99 carb	EFI	2 years	Black	<b>310-0661</b>	\$7,057.83

## NOTE

These engines are not to be used in a previously certified vehicle or a custom motorcycle built from a previously certified vehicle.

S&S 49-state engine packages are only available through S&S dealers and select distributors.

Requirements for bikes built with S&S EPA certified engine packages:

Vehicles must have a maximum N/V ratio\* of no greater than 43.3 for V-Series engines.

Maximum vehicle curb mass for V124E and V111E engines is 1058 lbs.

Exhaust system selected must create back pressure within the specified limits. Min. 3" H2O, Max. 21" H2O

\*Engine rpm divided by miles per hour in top gear.

# 50-STATE LEGAL ENGINES

## FITMENT

- V96R - 1984-'98 carbureted, non catalyst bikes
- V111Ci - 1984-'99 style custom big twin chassis

## V96R FEATURES AND BENEFITS

- Nearly stock height engine makes installation easy
- S&S Super E carburetor with Classic Teardrop air cleaner
- S&S forged roller rocker arms
- Chrome gearcover, tappet covers, and rocker covers
- No certification problems — documentation and compliance stickers included
- Exempt from emissions tampering regulations under CARB EO# D-355-5 when used in 1984-1998 carbureted, non-catalyst, big twin powered models

## V111Ci FEATURES AND BENEFITS

- 50-state emissions legal
- S&S Super E or G carburetor with Classic Teardrop air cleaner cover
- Chrome gearcover, tappet covers, and rocker covers
- Super Stock® ignition system protects engine with a low rev-limiter during first 24 hours of operation
- Logs engine data that can be viewed via a PC when equipped with diagnostic cable and software part #55-1271
- Initially configured for electric start, however, it is kick start capable
- Carbon canister
- Vapor valve
- Non-permeable installation tubing
- Instructions and all required documentation
- Two-year warranty





**CARB**  
compliant  
EO #D-355-5

## S&S® V-SERIES 50-STATE LEGAL ENGINE SPECIFICATIONS

Engine Name	Displacement	Bore	Stroke	Camshaft	Piston Type	Compression Ratio
V96R	96"	3 7/8"	4 1/8"	520	S&S Forged	10.1:1

## S&S® V-SERIES 50-STATE LEGAL ENGINES

Engine Name	Chassis Style	Fuel Delivery	Ignition	Warranty Period	Finish	Part No.	MSRP
V111Ci	1984-'99 carb	S&S EFI	S&S VFI	2 years	Black	<b>310-0673</b>	\$7,179.52
V96R	1984-'98 carb	Super E Carb	Super Stock®	2 years	Black	<b>31-9156*</b> 	\$6,514.50
					Natural	<b>31-9155*</b> 	\$6,161.00

\*Exempt from emissions tampering regulations under CARB EO# D-355-5 when used in 1984-1998 carbureted, non-catalyst, big twin powered models

## NOTES

### V96R

Gearing must be stock or have an N/V Ratio\* lower than stock.

A stock non-catalyst exhaust system must be used.

The stock evaporative system must be retained and connected to the engine as shown in the manual.

S&S® replacement engines are only for use as a replacement engine in 1984-'98 Harley-Davidson motorcycles originally equipped with a carbureted, non-catalyst, big twin Evolution® engine. They may not be used in any new or previously registered custom motorcycles.

\*Engine rpm divided by miles per hour in top gear.

This replacement engine is only legal when used to replace a stock 80" Evolution® engine. CARB compliance stickers must be affixed to frame.

### V111C/V124C

Vehicles must have a maximum N/V ratio\* of no greater than 43.3 for V-Series engines.

Maximum vehicle curb mass for V111Ci engines is 1058 lbs.

Exhaust system selected must create back pressure within the specified limits. Min. 3" H2O, Max. 21" H2O

Builder must return the included agreement form and required photographs of the vehicle to S&S before a manufacturer's statement of origin (MSO) for the engine can be issued.

Until the MSO is issued, the vehicle is not considered to be certified and the MSO is required to title a custom vehicle.

Maximum fuel capacity is five gallons.

\*Engine rpm divided by miles per hour in top gear.

# SHORT BLOCK ASSEMBLIES

Replace your entire stock lower end with an S&S Short Block assembly!  
A rock solid S&S flywheel assembly, installed in a set of bullet proof S&S Super Stock® crankcases.

## FITMENT

- 1984-'99 Carbureted and Fuel Injected 80" Evolution big twin

## FEATURES AND BENEFITS

- Stock 3 1/2" bore and 4 1/4" stroke
- Premium quality U.S. made S&S components
- Compatible with all stock and most aftermarket parts
- Full one year parts warranty
- Includes certificate of origin for new crankcases



**CARB**  
compliant  
EO #D-355-19

## S&S® SHORT BLOCK ASSEMBLIES

Chassis Style	Bore	Stroke	Warranty Period	Finish	Part No.	MSRP
1984-'91 big twins	3 1/2"	4 1/4"	One year parts only	Natural	<b>310-0780A</b>	\$2,488.87
				WBlack	<b>310-0801A</b>	\$2,299.95
1992-'99 big twins				Natural	<b>310-0781A</b>	\$2,488.87
				WBlack	<b>310-0802A</b>	\$2,488.87

1977-'89 style pinion gears, spacers, and nuts are required when installing S&S flywheel assemblies.  
For installation in 1990-'99 or scratch built engines, order S&S Pinion Shaft Conversion Kit  
Exempt from emissions tampering regulations under CARB EO# D-355-19



## S&S® PINION SHAFT CONVERSION KIT

Fitment	Part No.	MSRP
1990 -up big twins	<b>33-4148</b>	\$135.30

# SUPER STOCK® ALTERNATOR STYLE CRANKCASES

## FITMENT

- 1984-'99 big twins under 4" bore



## FEATURES AND BENEFITS

- Relocated cam chest oil pick-up increases gear case scavenging and virtually eliminates oil carry-over at sustained high speeds
- Machined to accept the stock oil filter assembly used on 1992-'99 big twins
- A ported breather passageway and a machined breather window allows the air/oil mist to flow from the flywheel cavity to the cam chest of the engine with the least possible restriction
- Crankcase venting can be achieved via two crankcase breathers, the cylinder heads, or both. We recommend using both crankcase breathers in engines larger than 95"
- Clearanced for strokes as long as 5"
- Compatible with stock 1984-'99 flywheel assemblies, primary covers and gearcovers, making them perfect for stock replacement or high performance applications
- Machined for installation of a crank position sensor. This allows the cases to be used in stock EFI applications and also allows easy installation of S&S IST® Ignition and VFI Fuel Injection. A plug kit is included for applications that do not use a crank position sensor
- Exempt from emissions tampering regulations under CARB EO# D-355-8 when used with stock bore cylinders for 3½" Bore (stock)



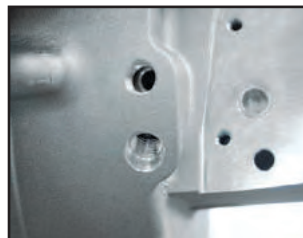
31-0005

## OPTIONS

- Available for stock, 3⅝", and 3⅞" bore applications with deck heights as much as ⅜" taller than 3½" stock

## KIT CONTENTS

- Crankcase assembly
- All required hardware, fittings, and bearings



Two crankcase breather holes allows increased flexibility.



Relocated oil scavenger pick-up reduces oil carry-over by increasing oil scavenge efficiency.

**REPLACEMENT PARTS: SEE PAGE 264**

## S&S® SUPER STOCK® ALTERNATOR CRANKCASES FOR 1984-'99 BIG TWIN

Crankcase Style	Finish	3½" Bore (Stock)	MSRP	3⅝" Bore	MSRP	Notes
1992-'99	Natural	<b>31-0005</b> 24469-83C, 24469-83A	\$1,283.15	<b>31-0077</b>	\$1,283.15	1, 3, 4
	WBlack	<b>31-0055***</b> 24571-93, 24569-95	\$1,422.02	<b>31-0078</b>	\$1,422.02	
	Polished	—	—	<b>31-0079</b>	\$1,689.95	
1984-'91	Natural	<b>31-0000</b> 24469-83C, 24469-83A	\$1,283.15	<b>31-0001**</b>	\$1,283.15	2, 3, 4
	WBlack	<b>31-0052***</b> 24473-85C	\$1,422.02	<b>31-0053**</b>	\$1,422.02	
Special Order**		<b>31-0002*</b>	Call for Pricing	<b>31-0002*</b>	Call for Pricing	

1. 1992-'99 style oil pump.

3. Machined for 1984-'99 alloy primary.

2. 1984-'91 style oil pump.

4. Machined for stock or S&S EFI crank position sensor.

Stock diameter only.

\*Special Order: Download the Special Order Form at [www.sscycle.com/soforms](http://www.sscycle.com/soforms)

\*\*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.

\*\*\*Exempt from emissions tampering regulations under CARB EO# D-355-8 when used with stock bore cylinders

## NOTE

All S&S crankcases manufactured after June 1, 2008 do not have case interlock groove and ring and do not use case alignment studs. Case mating surface is flat, and cases are aligned with alignment dowels.

# SPECIAL APPLICATION CRANKCASES

## FITMENT

- 1984-'99 big twins – 4" bore and over
- S&S 4", 4½" bore V-Series engines

## FEATURES AND BENEFITS

- Cam chest is moved outward .250" to allow crankcases to handle large cylinder bore sizes
- Relocated cam chest oil pick-up increases gear case scavenging and virtually eliminates oil carry-over at sustained high rpm
- Machined to accept the stock oil filter assembly used on 1992-'99 big twins
- A ported breather passageway and a machined breather window allows the air/oil mist to flow from the flywheel cavity to the cam chest of the engine with the least possible restriction
- Crankcase venting can be achieved via two crankcase breathers, the cylinder heads, or both! We recommend using both crankcase breathers in engines larger than 95"
- Clearanced for strokes as long as 5"
- Machined for installation of a crank position sensor. This allows the cases to be used in EFI applications and also allows easy installation of S&S IST® Ignition and VFI Fuel Injection. A plug kit is included for applications that do not use a crank position sensor

## KIT CONTENTS

- Crankcase assembly
- All required hardware, fittings, and bearings



31-0033

**NOTE**

All S&S crankcases manufactured after June 1, 2008 do not have case interlock groove and ring and do not use case alignment studs. Case mating surface is flat, and cases are aligned with alignment dowels.

**REPLACEMENT PARTS: SEE PAGE 266**

## S&S® SPECIAL APPLICATION ALTERNATOR CRANKCASES FOR 1984-'99 BIG TWIN

Crankcase Style	Bore	Deck Height	Natural	MSRP	WBlack	MSRP	Polished	MSRP
1984-'99*	4"	5.875"	31-0047 <sup>USA TÜV</sup>	\$1,384.95	31-0051 <sup>USA TÜV</sup>	\$1,677.55	-	-
1984-'99*	4 ½"	6.000"	31-0033 <sup>USA TÜV</sup>	\$1,588.69	31-0037 <sup>USA TÜV</sup>	\$1,727.55	31-0039 <sup>USA TÜV</sup>	\$2,144.17
Special Order	Specify	Specify	31-0015**	Call for Pricing	31-0015**	Call for Pricing	31-0015**	Call for Pricing

\* 1992-'99 style oil pump, machined for 1984-'99 alloy primary, machined for stock or S&S EFI crank position sensor. Stock diameter only.

\*\* Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

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 FLYWHEEL ASSEMBLIES

## FITMENT

- 1984-'99 big twins

## FEATURES AND BENEFITS

- Drive side flywheels have special keyed 6° large diameter taper that provides more contact area, increasing strength
- Standard S&S tapered crankpin and pinion shaft are used for ease of service
- Flywheels for EFI applications are machined with timing notches compatible with factory crank position sensors

## KIT CONTENTS

- Assembled:
  - Flywheels
  - Crankpin
  - Connecting rods



32-2239



32-2146

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

## FLYWHEELS FOR 1984-'99 CARBURETED BIG TWINS

Stroke	8½" Diameter (stock)	MSRP	8¼" Diameter	MSRP
4¼"	<b>32-2239</b> 23906-90, 23906-93B, 23906-90A	\$1,260.93	—	—
Special Order**	<b>32-2015**</b>	Call for Pricing	<b>32-2015**</b>	Call for Pricing

\*\*Use this special order part number to order flywheels assembled or unassembled, or balanced or unbalanced. Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

## FLYWHEELS FOR 1995-'98 EFI BIG TWINS

Stroke	Part No.	MSRP
4¼"	<b>32-2145</b> 23941-95	\$1,260.93

## NOTES

- IMPORTANT: 1977-'89 style pinion gears, spacers, and nuts are required when installing S&S flywheel assemblies. For installation in 1990-'99 or scratch built engines, order S&S Pinion Shaft Conversion Kit 33-4148.
- S&S flywheels are no longer available machined for stock Harley-Davidson® main shafts.
- 4¼" stroke assembly is balanced for stock H-D® 80" pistons.
- 4½" stroke assembly is balanced for S&S stock bore and 3½" bore stroker pistons.
- Use special order part number for flywheels balanced to other pistons or rods.
- All S&S crankcases for 1984-'99 big twin engines are machined to accept a crank position sensor (CPS), and can be used with these flywheels.

# REPLACEMENT FLYWHEELS FOR V-SERIES ENGINES



32-2239

## REPLACEMENT FLYWHEEL ASSEMBLIES FOR S&S V-SERIES ENGINES

Engine	Stroke	Diameter	Part No.	MSRP
V124* (3-piece)	4½"	8¼"	<b>320-0477</b>	\$1,416.47
V117* (3-piece)	4¾"	8¼"	<b>320-0363</b>	\$1,416.47
V111* (3-piece)	4½"	8¼"	<b>320-0420</b>	\$1,416.47
V96	4½"	8½"	<b>32-2230</b>	\$1,260.93
V96 (IST)*	4½"	8½"	<b>32-2146</b>	\$1,260.93
V80	4¼"	8½"	<b>32-2239</b>	\$1,260.93
1984-1999 4½" Bore	4½"	Specify	<b>329-0005**</b>	Call for Pricing
1984-1999 Carbureted (non 4½" Bore)	Specify	Specify	<b>32-2015**</b>	Call for Pricing

\* Left side flywheel is notched for crank position sensor.

\*\* Use this special order part number to order flywheels assembled or unassembled, balanced or unbalanced. Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

## NOTE

IMPORTANT: 1977-'89 style pinion gears, spacers, and nuts are required when installing S&S flywheel assemblies. For installation in 1990-'99 or scratch built engines, order S&S Pinion Shaft Conversion Kit 33-4148.

# HIGH VOLUME HIGH PRESSURE (HVHP) BILLET OIL PUMPS

## FITMENT

- 1984-'99 big twins
- S&S V-Series engines

## FEATURES AND BENEFITS

- No thicker than a stock pump
- Gears with fewer, but larger teeth provide increased oil volume for both supply and return sides of the pump
- Supply gears are 9% wider than stock and standard S&S oil pumps
- 28% wider than stock return gears ensure proper crankcase scavenging, reduce drag on the flywheels, and eliminate oil carryover
- Increased scavenging capacity results in:
- Less oil in the crankcase
- Less oil carryover
- Equipped with a stock length oil pump drive shaft

## OPTIONS

### Pump Only Kits:

- Complete oil pump assembly
- Oil pump driveshaft
- Miscellaneous hose fittings and plugs
- Paper gaskets
- Mounting hardware

### Pump And Gear Kits:

- For stock 1984-'89 engines or engines with S&S flywheel assemblies
- Everything in the "pump only" kits
- Oil pump drive shaft gear
- Oil pump pinion shaft gear
- Steel breather gear and shim kit



31-6208

## S&S® HIGH VOLUME HIGH PRESSURE OIL PUMP KITS FOR 1984-'99 BIG TWINS

Year Group	Cover Type	Pump Only Kit	MSRP	Pump w/ Gear Kit*	MSRP
1984-'91	Universal	31-6214	\$417.56	31-6307	\$544.91
1992-'99	Universal	31-6208	\$417.56	31-6302	\$544.91
	Standard	31-6209	\$417.56	31-6298	\$544.91

\*Pinion shaft gears included in these kits fit stock 1984-'89 pinion shafts and S&S pinion shafts for 1984-'99. Will not fit stock 1990-'99 straight pinion shafts. Standard style covers have feed and return holes in the stock locations. The universal cover has a number of oil feed and return options, allowing maximum flexibility for customized applications.



The gear tooth profile and the extra gear width of the HVHP oil pump work together to maintain higher oil pressure and to scavenge additional oil from the crankcase.

**REPLACEMENT PARTS: SEE PAGE 273**

# STANDARD BILLET OIL PUMPS

## FITMENT

- 1984-'99 big twins

## FEATURES AND BENEFITS

- Machined with an oil pressure relief bleed off valve to maintain consistent oil pressure from the time the engine is started to the time it's shut off
- Oil pressure regulation bypass route allows excess oil not used by the engine to return directly to the supply side of the pump, reducing foaming and cavitation
- No thicker than a stock pump
- Increased scavenging capacity results in:
  - Less oil in the crankcase
  - Less oil carryover
- Equipped with a stock length oil pump drive shaft

## OPTIONS

### Pump Only Kits

- Complete oil pump assembly
- Oil pump driveshaft
- Miscellaneous hose fittings and plugs
- Paper gaskets
- Mounting hardware

### Pump And Gear Kits

- For stock 1984-'89 engines or engines with S&S flywheel assemblies.
- Everything in the "pump only" kits
- Oil pump drive shaft gear
- Oil pump pinion shaft gear
- Steel breather gear and shim kit



31-6203

## S&S® OIL PUMP KITS FOR 1984-99 BIG TWINS

Year	Cover Type	Pump Only Kit	MSRP	Pump & Gear Kits	MSRP
1984-'91	Universal	31-6203	\$342.37	*31-6295	\$476.01
1992-'99	Standard	31-6206	\$342.37	*31-6296	\$476.01
	Universal	31-6205	\$342.37	—	—

\*Pinion shaft gears included in these kits fit stock 1984-'89 pinion shafts and S&S pinion shafts for 1984-'99. Will not fit stock 1990-'99 straight pinion shafts. Standard style covers have feed and return holes in the stock locations. The universal cover has a number of oil feed and return options, allowing maximum flexibility for customized applications.

**REPLACEMENT PARTS: SEE PAGE 272**

## NOTE

**Chrome Plating the Pump** — It is extremely difficult to chrome plate an oil pump without getting chrome in the passageways, cavities or on the machined surfaces where the gears, check ball, and pressure valve operates. Chrome in these areas as well as on the gasket surfaces impairs the pumps performance by altering the operating tolerances machined into the parts. In addition, abrasive particles of chrome may break loose causing damage to the pump and the engine. Because of this, S&S does not recommend chrome plating the pump body or cover. S&S voids its warranty if these parts are chrome plated.

## BILLET FILTER BRACKET

### FITMENT

- 1993-'99 big twins w/ stock crankcases
- S&S crankcases for 1984-'99 big twins

### FEATURES AND BENEFITS

- Includes oil line fittings and has provisions to plumb an oil cooler



Description	Part No.	MSRP
S&S Billet Filter Bracket	 <b>31-4105</b>	\$261.00

## STEEL ROTARY BREATHER GEARS

### FITMENT

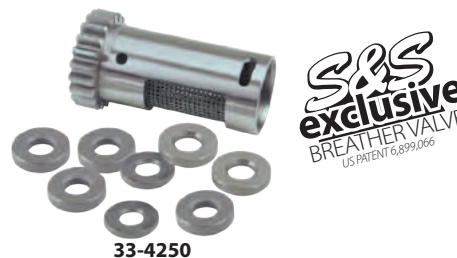
- 1984-'99 big twins

### FEATURES AND BENEFITS

- Abrasive particles are less likely to get imbedded in a steel gear body than a plastic one
- A welded-in screen prevents particles from entering the gear cavity and damaging either the gears or oil pump
- Larger diameter holes means improved air flow and oil scavenging from the flywheel cavity
- Improved breather window timing increases flywheel cavity vacuum and crankcase oil scavenging
- Slotted scavenge hole increases breather pocket oil scavenging for less carryover

### OPTIONS

- Available in standard and +0.030" for use in engines with damaged breather bores




Breather gear kits include breather gear and steel end play shim kit.

### BREATHER GEAR KITS FOR 1984-'99 BIG TWINS

Year	Standard Size	MSRP	+ .030"	MSRP
1984-'99	<b>33-4250</b>	\$114.31	<b>33-4260</b>	\$114.31

### BREATHER GEARS ONLY FOR 1984-'99 BIG TWINS

Year	Standard Size	MSRP	+ .030"	MSRP
1984-'99	<b>33-4241</b>  25310-82A, 25313-77B, 25311-90	\$90.18	<b>33-4242</b>	\$90.18

### BREATHER GEAR SPACING SHIM KIT

Description	Part No.	MSRP
Fits stock 1979-'82 and all S&S steel breather gears Includes one of each: .100", .110", .120", .130", .140", .150", .160", .170"	<b>33-4249</b>	\$23.02

### BREATHER GEAR SPACING SHIMS\*

Thickness	Part No.	MSRP
+.100"	<b>33-4200</b>	\$3.93
+.110"	<b>33-4201</b> 25320-79	\$3.93
+.120"	<b>33-4202</b> 25322-79	\$3.93
+.130"	<b>33-4203</b> 25325-79, 25320-82	\$3.25
+.140"	<b>33-4204</b> 25322-82, 25327-79	\$3.93
+.150"	<b>33-4205</b> 25325-82	\$3.93
+.160"	<b>33-4206</b> 25327-82	\$3.93
+.170"	<b>33-4207</b>	\$2.72

\* These shims must be used with steel breather gears only.

## CRANKCASE BREATHER REED VALVES FOR LARGE DISPLACEMENT ENGINES

### OPTIONS

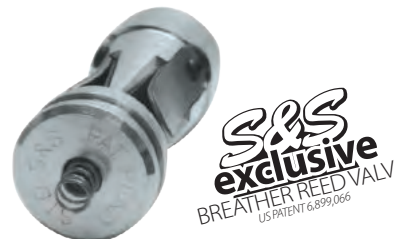
- Available in standard size or +.030" for use in engines with damaged breather bores

### CRANKCASE BREATHER REED VALVES FOR 1993-'99 BIG TWINS

Application	Standard Size	MSRP	+ .030"	MSRP
1993-'99	<b>31-2096</b>	\$123.86	<b>31-2100</b>	\$131.14

### NOTE

The crankcase reed valve should not be used in 1984 to 1992 crankcase breathing engines. It is only intended for head breathing applications.



# BILLET GEARCOVERS

## FITMENT

- 1984-'92 big twins with standard ignition

## KIT CONTENTS

- Billet gearcover
- Gaskets
- Mounting hardware
- Instructions

### S&S® BILLET GEARCOVERS AND IGNITION COVERS

Application	Finish	Part No.	MSRP
1984-'92*	Chrome Plated	<b>106-4211</b>	\$487.16

\*Gearcover has internal breather passage that is used to vent crankcase.



**106-4211**

REPLACEMENT PARTS: SEE PAGE 262

# CAST GEARCOVERS

## FITMENT

- 1984-'92 big twins

## FEATURES

- Machined from tough 356-T6 aluminum castings – *the same material used to make S&S crankcases*
- Inner cast aluminum cover and a decorative bolt-on outer cover
- Will accept either points or electronic ignition systems

## KIT CONTENTS

- Cast gearcover and gaskets
- Mounting hardware

### S&S® CAST GEARCOVERS AND IGNITION COVERS

Application	Finish	Flangeless Tall	MSRP
1984-'92 big twins *	Natural	<b>31-0203</b>	\$203.00

\*Gearcover has internal breather passage that is used to vent crankcase.



**31-0203**

REPLACEMENT PARTS: SEE PAGE 262

# IGNITION COVERS

## FITMENT

- S&S engines with "cone" style gearcovers



**31-0332**

### S&S® IGNITION COVER

Description	Part No.	MSRP
Chrome	<b>31-0332</b>	\$58.69

# CYLINDERS WITH PISTONS KIT

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



910-0224

## S&S® 4 1/8" BORE CYLINDERS WITH PISTONS KIT SPECIFICATION CHART

Displacement	Stroke	Cylinder Length	Piston Type	Compression Ratio
111"	4 1/8"	4.764"	Forged	9.7:1
117"	4 3/8"	4.889"		10.2:1
124"	4 5/8"	5.014"		10.8:1

## S&S® 4 1/8" BORE CYLINDERS WITH PISTONS FOR 124", 117", & 111" KIT

Displacement	Cylinders w/Pistons (Set)					
	Natural	MSRP	WBlack	MSRP	Polished	MSRP
111"	<b>910-0219</b>	\$1,053.18	<b>910-0359</b>	\$1,155.40	<b>910-0424</b>	\$1,208.74
117"	<b>910-0290</b>	\$1,067.60	<b>910-0225</b>	\$1,169.83	<b>910-0228</b>	\$1,319.80
124"	<b>910-0229</b>	\$1,053.17	<b>910-0224</b>	\$1,155.40	<b>910-0230</b>	\$1,305.37



91-7521

## S&S® 4" BORE CYLINDERS WITH PISTONS KIT SPECIFICATION CHART

Displacement	Stroke	Cylinder Length	Piston Type	Compression Ratio	
				92cc Heads	84cc Heads
100"	4"	4.745"	Forged	9.1:1	9.6:1
107"	4 1/4"	4.870"		9.5:1	10.2:1
113"	4 1/2"	4.995"		10.1:1	10.7:1

## S&S® 4" BORE CYLINDERS WITH PISTONS FOR 113", 107", & 100" KIT

Displacement	Cylinders w/Pistons (Set)					
	Natural	MSRP	WBlack	MSRP	Polished	MSRP
100"	<b>91-7011</b>	\$943.73	—	—	—	—
107"	<b>91-7021</b>	\$943.73	<b>91-7521</b>	\$1,043.72	<b>91-7066</b>	\$1,195.93
113"	<b>91-7111</b>	\$943.73	<b>91-7611</b>	\$1,043.72	<b>91-7067</b>	\$1,195.93



## S&S® 3 5/8" BORE CYLINDERS WITH PISTONS KIT SPECIFICATION CHART

Displacement	Stroke	Cylinder Length	STOCK HEADS		S&S SUPER STOCK® HEADS			
			Piston Type	Compression Ratio	Piston Type	Compression Ratio		
						Standard Compression	Intermediate Compression	High Compression
88"	4¼"	5.375"	Flat Topped	9:1	Domed	9.4:1	10.1:1	12.3:1
96"	4⅝"	5.565"		9.75:1		10.1:1	10.9:1	13.2:1
103"	5"	5.750"		10.5:1		10.9:1	11.8:1	14.2:1

\*Small Diameter Flywheels

## S&S® 3 5/8" BORE CYLINDERS WITH PISTONS FOR 96" & 88" KIT

Displacement	Stock Heads (Flat Topped Pistons)				S&S Super Stock® Heads (Domed Pistons)									
	Cylinders w/ Pistons				Cylinders w/ Standard Compression Pistons						Cylinders w/ Intermediate Compression Pistons			
	Natural	MSRP	WBlack	MSRP	Natural	MSRP	WBlack	MSRP	Polished	MSRP	Natural	MSRP	WBlack	MSRP
88"	<b>91-7002</b>	\$936.53	<b>91-7502</b>	\$1,036.51	<b>91-7009</b>	\$936.53	—	—	—	—	<b>91-7052</b>	\$936.52	<b>91-7552</b>	\$1,036.51
96"	<b>91-7202</b>	\$936.53	<b>91-7702</b>	\$1,036.51	<b>91-7207</b>	\$936.53	<b>91-7707</b>	\$1,036.51	<b>91-7152</b>	\$1,188.71	<b>91-7054</b>	\$936.52	<b>91-7554</b>	\$1,036.51



## CONTINUED CYLINDER & PISTON KITS



91-7715

### S&S® 3 1/2" BORE CYLINDERS WITH PISTONS KIT SPECIFICATION CHART

Displacement	Piston Type	Stroke	Cylinder Length	COMPRESSION RATIO		
				Stock Heads	S&S 76cc Performance Replacement Heads	S&S Super Stock® Heads
FLAT-TOPPED PISTONS FOR STOCK OR S&S PERFORMANCE REPLACEMENT CYLINDER HEADS						
80"	Cast/Flat-topped	4¼"	5.550" (Stock)	8.5:1	8.8:1	—
89"	Forged Flat-topped	4⅝"	5.550" (Stock)	9.25:1	9.4:1	—
SPECIAL DOMED PISTONS FOR S&S SUPER STOCK® CYLINDER HEADS						
80"	Forged/Super Stock® Domed	4¼"	5.550" (Stock)	—	—	10:1
89" LC	Forged/Super Stock® Domed	4⅝"	5.550" (Stock)	—	—	10:1
89" HC	Forged/Super Stock® Domed	4⅝"	5.550" (Stock)	—	—	12.5:1

### S&S® 3 1/2" BORE CYLINDERS WITH PISTONS KIT FOR STOCK HEADS, S&S PERFORMANCE REPLACEMENT HEADS AND S&S SUPER STOCK® HEADS

Displacement	Cylinders w/ Pistons for S&S Super Stock® Heads				Cylinders w/ Pistons for Stock Heads and S&S Performance Replacement Heads			
	Natural	MSRP	WBlack	MSRP	Natural	MSRP	WBlack	MSRP
80"	<b>91-7213</b>	\$912.07	<b>91-7713</b>	\$1,012.06	<b>910-0179</b> 16510-83A	\$722.09	<b>910-0182</b> 16512-86A	\$822.08
89"	—	—	—	—	<b>91-7211</b>	\$912.07	<b>91-7711</b>	\$1,012.06
89" LC	—	—	<b>91-7715</b>	\$1,012.06	—	—	—	—



#### ALL OTHER BORES AND FINISHES ARE AVAILABLE THROUGH SPECIAL ORDER

\* Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

**91-7504\*** Call for Pricing

## NOTES

Stock crankcases must be machined to accommodate the large spigot diameter of 3 5/8" bore cylinders.

**PISTON REPLACEMENT PARTS: SEE PAGE 226**



# CYLINDERS

- Cylinder sets without pistons are bored slightly under normal size and are not honed.
- Include dowel pins

## S&S® 4½" BORE CYLINDERS



Displacement		Natural	MSRP	WBlack	MSRP	Polished	MSRP
111"	Set	<b>910-0284</b>	\$619.60	<b>910-0358</b>	\$720.10	<b>910-0246</b>	\$866.52
117"	Set	<b>910-0267</b>	\$619.60	<b>910-0261</b>	\$720.10	-	-
124"	Set	<b>910-0270</b>	\$619.60	<b>910-0258</b>	\$720.10	<b>910-0273</b>	\$866.52

## S&S® 4" BORE CYLINDERS

Displacement		Natural	MSRP	WBlack	MSRP	Polished	MSRP
100"	Set	<b>91-7010</b>	\$575.49	-	-	-	-
107"	Set	<b>91-7020</b>	\$575.49	-	-	-	-
113"	Set	<b>91-7110</b> 	\$575.49	<b>91-7610</b>	\$675.99	<b>91-7064</b> 	\$822.63



Recommended Piston Fitment: Close: .0020"-.0025" Loose: .0037"-.0045"

## S&S® 3½" BORE CYLINDERS

Displacement		Natural	MSRP	WBlack	MSRP
88"	Set	<b>91-7000</b>	\$568.24	<b>91-7500</b>	\$668.74
96"	Set	<b>91-7200</b> 	\$568.24	<b>91-7700</b> 	\$668.74

\*Small Diameter Flywheels Recommended Piston Fitment: Close: .0015"-.0020" Loose: .0035"-.0045"

## S&S® 3½" BORE CYLINDERS

Displacement		Natural	MSRP	WBlack	MSRP
80"					
89"	Set	<b>91-7210</b> 	\$552.61	<b>91-7710</b> 	\$653.11



**ALL OTHER BORES AND FINISHES ARE AVAILABLE THROUGH SPECIAL ORDER**

\*Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

**91-7504\*** Call for Pricing

## NOTES

S&S 4½" pistons are machined to such close tolerances that it is not necessary to measure the piston. Additionally, the low friction coating on the piston skirt makes taking measurements very difficult. Therefore, hone cylinders to nominal diameter +/- 0.0005" for correct clearance.

Stock crankcases must be machined to accommodate the large spigot diameter of 3½" bore cylinders.

# PISTON KITS

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



1984-1999 Big Twins

## S&S® 4 1/8" 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 4 1/8"	<b>920-0046</b>	\$440.39	<b>920-0047</b>	\$440.39	<b>920-0050</b>	\$440.39	<b>920-0053</b>	\$439.60
124", 117" & 111" -Stock or S&S Heads Flat Top	1.050"	Up To 4 1/8"	<b>106-3491A</b>	\$440.39	<b>106-3872A</b>	\$440.39	<b>106-3964A</b>	\$440.39	<b>920-0094</b>	\$439.60

## NOTE

S&S 4 1/8" pistons are machined to such close tolerances that it is not necessary to measure the piston. Additionally, the low friction coating on the piston skirt makes taking measurements very difficult. Therefore, hone cylinders to nominal diameter +/- 0.0005" for correct clearance.

## S&S® 4" BORE FORGED PISTON KITS

Displacement	Deck Height	Stroke	Standard	MSRP	+ .010"	MSRP	+ .020"	MSRP	+ .030"	MSRP
Retro 100"	1.200"	4"	<b>92-1420</b>	\$366.71	<b>92-1421</b>	\$366.71	<b>92-1422</b>	\$366.71	—	—
100"		4"	<b>92-1400</b>	\$366.71	<b>92-1401</b>	\$366.71	<b>92-1402</b>	\$366.71	<b>92-1403</b>	\$366.71
107"		4 1/4"	<b>92-1400</b>	\$366.71	<b>92-1401</b>	\$366.71	<b>92-1402</b>	\$366.71	<b>92-1403</b>	\$366.71
113"		4 1/2"	<b>92-1410</b>	\$366.71	<b>92-1411</b>	\$366.71	<b>92-1412</b>	\$366.71	<b>92-1413</b>	\$366.71
116"		4 3/8"	<b>92-1420</b>	\$366.71	<b>92-1421</b>	\$366.71	<b>92-1422</b>	\$366.71	—	—

Recommended Piston Fitment: Close: 0.0020"-0.0025" Loose: 0.0037"-0.0045"

## FORGED 3 1/8" BORE FLAT TOPPED PISTON KITS FOR STOCK STYLE HEADS

Displacement	Deck Height	Stroke	Standard	MSRP	+ .010"	MSRP	+ .020"	MSRP	+ .030"	MSRP	+ .040"	MSRP	+ .060"	MSRP
88"	1.200"	4 1/4"	<b>92-1900</b>	\$342.14	<b>92-1901</b>	\$342.14	<b>92-1902</b>	\$342.14	<b>92-1903</b>	\$342.14	<b>92-1904</b>	\$342.14	<b>92-1906</b>	\$299.95
93"		4 1/2"												
98"*		4 3/4"*												
96"		4 5/8"												
103"*		5"*												

\*Small Diameter Flywheels Recommended Piston Fitment: Close: 0.0015"-0.0020" Loose: 0.0035"-0.0040"

## S&S® 3 5/8" BORE STANDARD COMPRESSION PISTON KITS FOR S&S SUPER STOCK® HEADS

Displacement	Deck Height	Stroke	Standard	MSRP	+ .010"	MSRP	+ .020"	MSRP	+ .030"	MSRP	+ .040"	MSRP
88"	1.200"	4 1/4"	<b>92-1060</b> USA TÜV	\$391.27	<b>92-1061</b>	\$391.27	<b>92-1062</b>	\$391.27	<b>92-1063</b>	\$391.27	<b>92-1064</b>	\$391.27
93"		4 1/2"										
96"		4 5/8"										
103"*		5"*										

## S&S® 3 5/8" BORE INTERMEDIATE COMPRESSION PISTON KITS FOR S&S SUPER STOCK® HEADS

Displacement	Deck Height	Stroke	Standard	MSRP	+ .010"	MSRP	+ .020"	MSRP	+ .030"	MSRP	+ .040"	MSRP
88"	1.200"	4 1/4"	<b>92-1110</b>	\$420.88	<b>92-1111</b>	\$420.88	<b>92-1112</b>	\$420.88	—	—	—	—
93"		4 1/2"										
96"		4 5/8"										
103"*		5"*										

\*Small Diameter Flywheels Recommended Piston Fitment: Close: 0.0023"-0.0025" Loose: 0.0035"-0.0045"

## CONTINUED PISTON KITS

### S&S® 3½" BORE CAST FLAT-TOPPED REPLACEMENT PISTON KITS FOR STOCK HEADS OR S&S PERFORMANCE REPLACEMENT HEADS

Displacement	Deck Height	Stroke	Standard	MSRP	+0.010"	MSRP	+0.020"	MSRP
80"	1.3750"	4¼"	<b>920-0015</b> 21940-83	\$119.41	<b>920-0026</b> 21942-83	\$119.41	<b>920-0027</b> 21943-83	\$119.41

No replacement wristpins are available. Recommended Cast Piston Fitment: Close 0.0010"-0.0015" Loose 0.0020"-0.0025"

### S&S® 3½" BORE FORGED FLAT TOPPED STROKER PISTON KITS FOR STOCK OR S&S PERFORMANCE REPLACEMENT HEADS

Displacement	Deck Height	Stroke	Standard	MSRP	+0.010"	MSRP	+0.020"	MSRP	+0.030"	MSRP
89"	1.1875"	4⅝"	<b>106-5554</b>	\$322.58	<b>106-5555</b>	\$322.58	<b>106-5556</b>	\$322.58	<b>106-5793</b>	\$322.58

Recommended Piston Fitment: Close .0020"-0.0025" Loose .0030"-0.0035" May require rebalancing if replacing old 92-2040 series pistons.

### S&S® 3½" BORE FORGED DOMED PISTON KITS FOR S&S® SUPER STOCK® HEADS

Displacement	Deck Height	Stroke	Standard	MSRP	+0.005"	MSRP	+0.010"	MSRP	+0.020"	MSRP	+0.030"	MSRP
80"	1.3750"	4¼"	<b>92-2026</b>	\$366.71	<b>92-2026S</b>	\$366.71	<b>92-2027</b>	\$366.71	<b>92-2028</b>	\$366.71	<b>92-2029</b>	\$366.71
89" LC	1.1875"	4⅝"	<b>92-2046</b>	\$366.71	<b>92-2046S</b>	\$321.95	<b>92-2047</b>	\$366.71	<b>92-2048</b>	\$366.71	<b>92-2049</b>	\$321.95
89" HC			<b>92-2016</b>	\$366.71	-	-	<b>92-2017</b>	\$366.71	<b>92-2018</b>	\$366.71	-	-

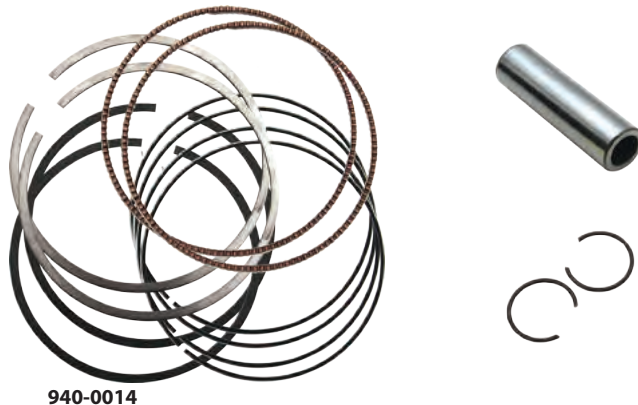
Recommended Piston Fitment: Close .0020"-0.0025" Loose .0030"-0.0035"

# REPLACEMENT PARTS FOR PISTONS

## PISTON RINGS, MOLY FACED

Bore	Deck Height	Standard	MSRP	+0.005"	MSRP	+0.010"	MSRP	+0.020"	MSRP	+0.030"	MSRP	+0.040"	MSRP	+0.060"	MSRP
4⅞"	1.050"	<b>940-0014</b>	\$43.70	-	-	<b>940-0012</b>	\$43.70	<b>940-0013</b>	\$38.95	<b>940-0017</b>	\$38.95	-	-	-	-
4"	1.200"	<b>94-1300X</b>	\$33.60	-	-	<b>94-1301X</b>	\$33.60	<b>94-1302X</b>	\$33.60	<b>94-1303X</b>	\$33.60	-	-	-	-
3⅝"	1.200"	<b>94-1210X</b> TUV	\$36.52	-	-	<b>94-1211X</b>	\$33.60	<b>94-1212X</b>	\$36.52	<b>94-1213X</b>	\$33.60	<b>94-1214X</b>	\$33.60	<b>94-1216X</b>	\$29.95
3½" Cast Flat-Topped*	1.3750"	<b>94-2216X</b>	\$35.85	-	-	<b>94-2217X</b>	\$35.85	<b>94-2218X</b>	\$35.85	-	-	-	-	-	-
3½" Forged Flat-Topped	1.1875"	<b>94-2206X</b> 22334-78A, 22334-78B, 21920-83	\$35.85	-	-	<b>94-2207X</b> 22335-78A, 22335-78B, 21922-83	\$35.85	<b>94-2208X</b> 22336-78B, 21923-83	\$35.85	<b>94-2209X</b> 22337-78B, 21924-83	\$35.85	-	-	-	-
3½" Forged Domed	1.3750" 1.1875"	<b>94-2216X</b>	\$35.85	<b>94-22165X</b> 21921-83	\$35.85	<b>94-2217X</b>	\$35.85	<b>94-2218X</b>	\$35.85	<b>94-2219X</b>	\$35.85	-	-	-	-

\*No replacement wristpins are available



940-0014

## WRISTPINS

Bore	Description	Part No.	MSRP
4⅞"	.927" x 2.825" long USA <sub>3</sub> TUV <sub>1,6,7</sub>	<b>94-9277</b>	\$16.15
4"	.792" x 2.825" long USA <sub>1,2</sub> TUV <sub>4,5</sub>	<b>94-9256</b>	\$15.11

## KEEPERS

Bore	Description	Part No.	MSRP
4⅞"	Keeper TUV <sub>22097-99</sub>	each <b>94-9278-S</b>	\$2.46
		2 pack <b>94-9278-2</b>	\$4.39
		4 pack <b>106-2304</b>	\$4.34
4"	Keeper 22589-83A	each <b>94-9254-S</b>	\$1.05
3⅝"		2 pack <b>94-9254-2</b>	\$1.53
3½"		4 pack <b>94-9254</b>	\$3.02

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.

# CAMSHAFTS

## RECOMMENDED APPLICATIONS FOR S&S CAMS

**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® L-Grind

**490LR:** Hydraulic Bolt-In. Designed for broad power range improvement. Good choice for heavy bikes and trailer towing. Increases low and mid range performance. Works well with stock compression ratio and stock exhaust. No valve spring change required. Basic rpm Idle-5000.

**490MR:** Hydraulic Bolt-In Street performance for heavier bikes that are slightly modified. Can be used with stock compression or increased up to 9.5:1. Complements exhaust and intake modifications. No valve spring change required. Basic rpm 1500-5500.

**508:** Bolt-in cam intended for stock engines with less than 10:1 compression ratio. Quiet valve-train with excellent low/mid range torque for touring and 2 up riding.

**510V:** Bolt-in cam that works well with stock or ported heads. Improved ramp design results in low valve train noise. Meant for engines up to 96" and 10:1 compression ratio. 3000-5000 rpm.

**520:** A replacement part for S&S emissions certified engines, this is a short duration emissions cam with very little overlap to reduce emissions of unburned hydrocarbons. Requires high lift springs and normal clearance checks. 1000-4500 rpm (80"-96").

**543:** A replacement cam for newer S&S 4 1/8" bore V-series emissions certified engines for OE and custom applications. High lift, short duration and no overlap. Requires high lift springs and normal clearance checks. 1000-4000 rpm (111"-124").

**561:** For 80"-96" engines at 9.5:1-10.5:1 compression ratio. Provides strong midrange power. 3000-5500 rpm.

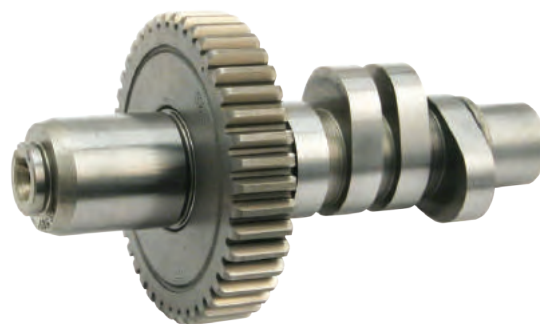
**585V:** A versatile cam for 80" to 96" engines with 10:1-10.5:1 compression, and larger engines with 9.5:1-10:1 compression ratios. 3500-6000 rpm.

**600:** An exceptional cam in any large displacement engine with 9.5:1 to 10.5:1 compression. 3500-6000 rpm.

**631:** For high rpm applications, an excellent choice for all street and racing engines with 11:1 and higher compression ratios. Great performance cam, but expect more "wear and tear" on valve train components. Valve spring spacing and other normal clearancing checks required. 4500-6500 rpm.

**640:** For large displacement motors with compression ratios of 10.5 - 11.5:1, or smaller motors with 11:1-12:1 compression ratio. Does not require as much compression as the 631 and provides a more linear power delivery. 3000-6000 rpm.

**675:** Designed for use with S&S special application cylinder heads, but can be used with other cylinder heads with appropriate valve springs. Intended for large displacement competition engines of 120 cubic inches or more, and 11:1 or greater compression. 4500-6500 rpm.



33-5124

## S&S® CAMS FOR 1984-'99 BIG TWIN ENGINES

Cam Name	Part No.	MSRP
OES	<b>330-0290</b>	\$156.56
490LR	<b>330-0371</b>	\$149.95
490MR	<b>330-0373</b>	\$156.60
508	<b>330-0093</b>	\$156.56
510V	<b>33-5124</b>	\$156.56
520	<b>33-5073</b> <small>USA 1,2 TÜV 4,5</small>	\$198.32
543	<b>330-0181</b>	\$198.32
561	<b>33-5076</b>	\$198.32
585V	<b>33-5109</b>	\$198.32
600	<b>33-5058</b>	\$198.32
631	<b>33-5080</b>	\$198.32
640	<b>33-5108</b>	\$198.32
675	<b>33-5133</b>	\$198.32

## NOTE

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

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

## S&S CAM SPECIFICATIONS FOR 1984 - '99 BIG TWIN ENGINES

Cam Name	Valve Timing Open/Close		Valve Duration		Valve Lift	Lift @ TDC		Spring Spacing Required	Tappet Type Required
	Intake	Exhaust	Intake	Exhaust		Intake	Exhaust		
	Open BTDC/Close ABDC	Open BBDC/Close ATDC							
OES	2.0°/34.0°	36.0°/4.0°	216.0°	220.0°	.475"	0.060"	0.060"	No	Hydraulic
490LR	12°/34°	41°/15°	226°	236°	.490"	.146"	.157"	No	Hydraulic
490MR	19°/37°	46°/16°	236°	242°	.490"	.184"	.162"	No	Hydraulic
508	11°/25°	50°/5°	217°	235°	.508"	.141"	.110"	No	Hydraulic
510V	20°/38°	52°/20°	238°	252°	.510"	.187"	.178"	No	Hydraulic
520	0°/40°	50°/2°	220°	232°	.520"	.086"	.094"	Yes	Hydraulic
543*	Front	-26°/52°	49°/-1°	206°	.543"	.017"	.083"	Yes	Hydraulic
	Rear	-25°/44°	33°/-10°	199°	.543"	.018"	.053"	Yes	Hydraulic
546	5°/55°	52°/5°	240°	237°	.546"	.126"	.106"	Yes	Hydraulic
561	32°/40°	50°/26°	252°	256°	.560"	.252"	.210"	Yes	Hydraulic
585V	20°/45°	60°/20°	245°	260°	.585"	.186"	.180"	Yes	Hydraulic
600	20°/55°	60°/20°	255°	260°	.600"	.192"	.184"	Yes	Hydraulic
631	34°/61°	66°/29°	275°	275°	.630"	.281"	.221"	Yes	Solid or Hydraulic
640	25°/60°	65°/20°	265°	265°	.640"	.222"	.192"	Yes	Hydraulic
675	25°/64°	70°/25°	269°	275°	.675"	.235"	.209"	Yes	Hydraulic

\*Emissions cams front and rear do not have identical timing. Negative values are due to special timing for reduced emissions.



# REPLACEMENT PINION GEARS

## FITMENT

- 1984-'89 big twins
- 1990-'99 engines with S&S flywheel assembly



33-4145

### S&S® 1984-'89 BIG TWIN STYLE PINION GEAR SELECTION CHART

Color Code	Size	H-D® Part No.	S&S Part No.	MSRP
Orange	Biggest	24040-78	<b>33-4141</b>	\$88.07
White		24041-78	<b>33-4142</b>	\$88.07
Yellow		24042-78	<b>33-4143</b>	\$88.07
Red	Average	24043-78	<b>33-4144</b>	\$88.07
Blue		24044-78	<b>33-4145</b>	\$88.07
Green		24045-78	<b>33-4146</b>	\$88.07
Black	Smallest	24046-78	<b>33-4147</b>	\$88.07

## NOTES

If the stock gear is unmarked and the size is unknown or you are scratch building an engine and have no gear, we recommend that you order a gear in the middle of the size range. These sizes were used more often and should provide adequate gear clearance under most circumstances. When in doubt, use a gear from the middle to the small side of the range, because a combination of looser fitting smaller gears is less likely to cause binding and premature wear. Consult the chart for the size and appropriate part number required. If you wish to achieve optimum cam gear to pinion gear fit, consult your factory service manual for instructions on fitting these gears before making a selection. Some sizes, particularly those on and near the ends of each range, are available on a limited basis because they are the extremes.

S&S® does not offer a replacement pinion shaft for 1990-'99 big twin engines that accepts a stock pinion gear, oil pump drive gear, gear spacer and pinion gear nut, because experience has shown that the design is not strong enough for performance applications. For this reason, we recommend and sell only the pre-1990 style pinion shaft for big twins. To make the change easier, S&S offers a conversion package consisting of a pinion gear, spacer, nut and oil pump drive gear for big twin engines.

# PINION SHAFT GEAR KITS

### S&S® PINION SHAFT GEAR KITS FOR 1984-'89 BIG TWINS

Color Code	Size	S&S Part No.	MSRP
Yellow	Biggest	<b>33-4185</b>	\$138.43
Red	Average	<b>33-4148</b>	\$135.30
Blue		<b>33-4181</b>	\$138.43
Black	Smallest	<b>33-4180</b>	\$138.43

Note - All S&S Pinion Shaft Gear Kits must be used with 1973-'99 style 24 tooth oil pump drive shaft gear such as S&S part # 33-4230. These kits when installing an S&S flywheel assembly in a 1990-'99 engine.

### S&S® INDIVIDUAL COMPONENTS

Description	S&S Part No.	MSRP
Pinion Shaft Gear Spacer	<b>33-4289</b>	\$4.62
Pinion Shaft Gear Nut 24023-54	<b>33-4244</b>	\$7.56
Pinion Shaft Oil Pump Drive Gear* 6 teeth 26349-73, 26349-73A	<b>33-4232</b>	\$39.82
Oil Pump Drive Gear** 24 teeth 26345-73	<b>33-4230</b>	\$28.27

\* Requires S&S part #33-4230 or 26345-73 drive shaft drive gear. Fits 1984-'89 stock and 1984-'99 S&S pinion shafts.

\*\*Requires S&S part #33-4232, part #33-4237 or 26349-73, 26349-73A pinion shaft drive gear.



33-4244



33-4230



33-4232



33-4289

# TAPPET GUIDES

## FITMENT

- 1984-1999 bt
- S&S V-Series engines
- S&S Special Application crankcases with .250" offset cam chest




106-5428

### S&S® BILLET TAPPET GUIDES FOR S&S V-SERIES ENGINES & S&S SA CRANKCASES

Tappet Guide	CRANKCASE STYLE					
	Stock/Super Stock®				Special Application	
	Polished	MSRP	Chrome	MSRP	Chrome	MSRP
Set	<b>106-6459</b>	\$345.04	<b>106-5428</b>	\$345.04	<b>106-3005</b>	\$380.57

### S&S® CAST TAPPET GUIDES FOR S&S V-SERIES ENGINES & S&S SA CRANKCASES

Tappet Guide	CRANKCASE STYLE							
	Stock/S&S Super Stock®				Special Application			
	Natural	MSRP	WBlack	MSRP	Natural	MSRP	WBlack	MSRP
Set	<b>33-5301</b> 	\$208.74	<b>33-5324</b>	\$229.62	<b>33-5309</b>	\$208.74	<b>33-5325</b>	\$229.62

## NOTE

S&S® engines for 1984-'99 chassis with larger than 3 1/16" bores are typically built using special crankcases such as S&S Special Application cases which have an offset right side gear cavity for more tappet guide to cylinder clearance. S&S offers special tappet guides machined to compensate for the change in pushrod angle caused by the cam chest offset of these cases.

# HIGH PERFORMANCE HYDRAULIC TAPPETS

## FITMENT

- 1984-'99 big twins
- S&S V-Series engines



## FEATURES AND BENEFITS

- .123" larger in diameter than the "raceless" roller axles currently used by some manufacturers
- Improved inner race-roller design allows use of more, and larger bearings to increase load-carrying surface area, further reducing stress and wear in the critical roller area
- Redesigned plunger assembly better withstands forces associated with heavy-duty valve springs and cams typically used in high-performance applications
- Improved metering device precisely controls oil delivery to top end, ensuring rapid lifter pump-up and reducing possibility of oil starvation to bottom end
- Each lifter body and plunger assembly is selective-fit and then leak down tested to ensure correct operation.



33-5352

### S&S® HIGH PERFORMANCE HYDRAULIC TAPPETS

Description	Part No.	MSRP
Without HL <sub>2</sub> T Kit 18523-86A	<b>33-5352</b>	\$278.70
With HL <sub>2</sub> T Kit	<b>33-5353</b>  	\$299.58

## OPTIONS

- Tappets are available with the HL<sub>2</sub>T Limited Travel Kit for improved cold starts and high rpm valve timing accuracy.

## KIT CONTENTS

- Four hydraulic tappets

### EXTRA PARTS NEEDED:

S&S tappets with HL<sub>2</sub>T Kit require the use of adjustable pushrods.

Because of close tolerances, tappets in set part #33-5353 may require slightly longer bleed down time than conventional tappets. At temperatures of 65°F and above, however, bleed-down should take 20 minutes or less using 20W50 engine oil.

# HYDRAULIC LIFTER LIMITED TRAVEL SPACER (HL<sub>2</sub>T)

## FITMENT

- 1984-'99 big twins
- All S&S tappets

## FEATURES AND BENEFITS

- Designed to limit the range of travel of the hydraulic tappet plunger
  - Easier starting
- Low noise and positive valve train activation
- More horsepower at higher RPMs



33-5338

### S&S® HYDRAULIC LIFTER LIMITED TRAVEL SPACER (HL<sub>2</sub>T)

Description	Part No.	MSRP
Set of four spacers (fits tappets with .612" I.D.)	<b>33-5338</b> 18526-89A	\$20.36

### EXTRA PARTS NEEDED:

Adjustable pushrods must be used with HL<sub>2</sub>T kit in order to obtain proper plunger position.

S&S HL<sub>2</sub>T kit will not fit the late stock replacement tappets H-D#18523-86B for 1984-'99 big twins. These tappets have a smaller bore size and a larger spring diameter than earlier versions.

Part #33-5338 fits tappets with .612" I.D.

VISIT US AT [WWW.SSCYCLE.COM](http://WWW.SSCYCLE.COM)

# TIME-SAVER ADJUSTABLE PUSHRODS



930-0052

## FEATURES AND BENEFITS

- Eliminates the need to disassemble the top end and remove the rocker arms to change pushrods or camshafts
- Reduce installation time by 75% - Hence the name Time Saver
- Larger 9mm diameter chrome moly tubing provides superior strength and minimizes pushrod flex
- Single adjuster end provides pushrod lengths from 9.5" to 11.5" for stock height and taller engines
- Kit includes set of four pushrods and installation instructions

## S&S® TIME-SAVER ADJUSTABLE PUSHRODS

Description	Part No.	MSRP
Pushrod Set	930-0052	\$150.76

# QUICKEE ADJUSTABLE PUSHRODS

## FITMENT

- 1984-'99 big twin

## FEATURES AND BENEFITS

- Easy to install - no need to remove rocker covers
- Adjustable to work with all stock and aftermarket cams
- Works with stock pushrod covers

REPLACEMENT PARTS: SEE PAGE 231



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

## S&S QUICKEE ADJUSTABLE PUSHRODS

Application	Displacement	Part No.	MSRP
1984 - '99 big twin	80" - 98", 113", 117", 124"	93-5120†	\$166.98
	107", 111" & S&S 88"	93-5123	\$166.98
	V92/V100	930-0022	\$166.98
Special Order	Specify	93-5135**	Call For Pricing

† Will not fit in an 88" engine which is .175" shorter. The rear intake pushrod is too long.  
 \*\* Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)



93-5120

# STANDARD ADJUSTABLE PUSHRODS

## FITMENT

- 1984-'99 big twins

## FEATURES AND BENEFITS

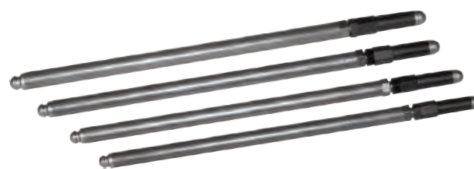
- Made out of 7/16" O.D. chromoly steel tubing for strength and durability
- Adjustable to work with all stock or aftermarket cams
- Compatible with solid and hydraulic lifters

## S&S® PUSHROD SETS FOR 1984-'99 BIG TWINS

Displacement	Cylinder Length	Part No.	MSRP
100"	4.745"	93-5090	\$115.35
88", 107"	5.375" (-.175")/4.870*	93-5017	\$115.35
93", 113"	5.500" (-.050")/4.995*	93-5018	\$115.35
80", 89", 96"	5.550" (Stock)	93-5076	\$115.35
98"	5.625" (+.075")	93-5019	\$115.35
103"	5.750" (+.200")	93-5020	\$115.35
Special Order	Specify	93-5073**	Call For Pricing

\* These are S&S 4" bore engines using +.500" deck crankcases. Cylinder lengths are .500" shorter.

\*\* Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)



93-5076

## S&S® PUSHROD SETS FOR 1984-'99 4 1/8" BORE BIG TWINS

Displacement	Cylinder Length	Part No.	MSRP
111"	4.764"	93-5017	\$115.35
117"	4.889"	93-5018	\$115.35
124"	5.014"	93-5019	\$115.35
Special Order	Specify	93-5073**	Call For Pricing

NOTE: Crankcases used in S&S 4 1/8" bore engines have 6.000" cylinder deck height. The increased deck height effects the cylinder length. Do not use cylinder lengths in this chart to select pushrods for engines built in crankcases with stock, 5.375" deck height.

\*\*Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

REPLACEMENT PARTS: SEE PAGE 231

# NON-ADJUSTABLE PUSHRODS

## FITMENT

- 1984-'99 Harley-Davidson® Evolution big twin engines

## FEATURES AND BENEFITS

- Replaces stock pushrods perfectly
- 7/16" 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	<b>930-0041</b>	\$53.62



# PUSHROD COVERS AND RELATED PARTS

## S&S® PUSHROD REPLACEMENT PARTS

Item Description	Part No.	MSRP
S&S Pushrod Cover Kit* (includes Top and bottom covers, Cover cap, Cover spring, & Spring washers)	Stock Height	<b>93-4039</b> \$146.12
	1" or more taller than stock	<b>93-4038</b> \$146.12
Top Cover   1,2,3,6,7 17935-661, 17935-798	each	<b>93-4016</b> \$12.23
Bottom Cover 17938-83	each	<b>93-4015</b> \$12.75
Cover Cap   1,2,3 17945-368	each	<b>93-4017</b> \$8.07
Cover Spring   1,2,3 17947-36	each	<b>93-4018</b> \$1.09
Cover Cap Washer 67628	each	<b>50-7131</b> \$1.15
Bottom Cover Washer	each	<b>50-7051</b> \$1.15
Top O-ring	each	<b>50-8039</b> \$1.68
Middle O-ring	each	<b>50-8038</b> \$1.05
Bottom O-ring	each	<b>50-8037</b> \$1.05
Quad Seal 11133A	each	<b>50-8064-S</b> \$2.19
Pushrod O-ring Kit   2,4,5	each	<b>93-4022</b> \$6.98
Ball End   1,2,3,5,6,7	each	<b>93-5002</b> \$10.45
Adjusting Unit Locknut	Fits S&S adjustable with 3/16"-32 threads. (Manufactured after 2-1-1996)	<b>93-5002</b> \$10.45
	Fits S&S adjusting unit #33-5334 and S&S adjustable pushrods with early stock 3/32"-32 threads	<b>33-5333</b> \$2.16
	Fits S&S adjustable pushrods with 3/16"-32 threads. (Manufactured after 2-1-1996)	<b>93-5003-S</b> \$2.20

## S&S® PUSHROD COVER KEEPER SETS FOR 1984-'99 BIG TWINS

Length	Application	Part No.	MSRP
2.400" 17950-48		<b>93-4070</b>	\$29.33
2.500"		<b>93-4100</b>	\$29.33
2.600"	79", Retro 100"	<b>93-4101</b>	\$29.33
2.800" 17950-86		<b>93-4115</b>	\$29.33
2.900"		<b>93-4102</b>	\$29.33
3.000"	100"	<b>93-4103</b>	\$29.33
3.100"	88", 107", 110", 111", 113"	<b>93-4104</b>	\$29.33
3.200"	93", 89", 96", 117"	<b>93-4105</b>	\$29.33
3.330" 17949-40, 17950-66	98", 124"	<b>93-4106</b>	\$29.33
3.500"	103"	<b>93-4107</b>	\$29.33
3.625"		<b>93-4108</b>	\$29.33
4.250"		<b>93-4109*</b>	\$58.29

\*Custom extra long stainless steel 4.250", customer to cut to required length  
Keepers are sold in sets of four. Keeper length for stock Harley-Davidson® with 80" engines is 3.330"



**93-4016**



**93-4015**



**93-4017**



**93-4018**



**50-7131**



**50-8037**



**50-8039**



**50-8038**



**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.

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.

# SIDEWINDER® .650" LIFT VALVE SPRINGS

## FITMENT

- 1984-'99 Evolution® with stock heads

## FEATURES AND BENEFITS

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

## KIT CONTENTS

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



900-0050

### 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

NOTE

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

### S&S® .650" LIFT VALVE SPRING KIT

Description	Part No.	MSRP
1984-'99 Evolution® with stock heads	900-0050	\$181.25

# STREET PERFORMANCE .585" VALVE SPRINGS

## FITMENT

- 1984-'99 Evolution® with stock heads
- All S&S Super Stock® heads

## FEATURES AND BENEFITS

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

## KIT CONTENTS

- Springs, Top & Bottom Collars, Keepers, Shims

### S&S® STREET PERFORMANCE .585" VALVE SPRINGS SPECIFICATIONS

Lift	Installed Height	Seat Force	Force @ Max Lift
.585"	1.850"	135 lb.	325 lb.

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

Description	Part No.	MSRP
1984-'99 big twins with stock heads	900-0593	\$122.36
All S&S Super Stock® heads	900-0595	\$122.36



900-0593

VALVE SPRING REPLACEMENT PARTS STARTING ON PAGE 279



# FORGED ROCKER ARMS

## FITMENT

- 1984-up big twins

## FEATURES AND BENEFITS

### ROLLER ROCKER ARMS

- Extremely durable rollers reduce valve side thrusting with high lift cams
- Superior wear and fatigue resistance even in the most demanding applications
- $\frac{3}{4}$ " long bushings provide 50% more bushing support area than  $\frac{1}{2}$ " long bushings

### STANDARD ROCKER ARMS

- $\frac{3}{4}$ " long bushings provide 50% more bushing support area than  $\frac{1}{2}$ " long bushings

## KIT CONTENTS

- 2 front and 2 rear rocker arms



900-4065A

### S&S® FORGED ROLLER ROCKER ARM KIT

Description	Part No.	MSRP
2 front and 2 rear rocker arms (1.625:1)	<b>900-4065A</b>	\$500.02

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



900-4119A

### S&S® STANDARD FORGED ROCKER ARM KIT

Description	Part No.	MSRP
2 front and 2 rear rocker arms (1.625:1)	<b>900-4119A</b>	\$258.38

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



90-4036

### S&S® ROCKER ARM SHAFTS

Description	Part No.	MSRP
Set of 4	<b>90-4036</b> 17611-83B	\$36.68
Individual	<b>90-4006</b> 17611-83B	\$11.02

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



90-4104

### REPLACEMENT PARTS FOR FORGED ROCKER ARMS

Rocker Arm Type	Description	Part No.	MSRP
Roller	Front exhaust or rear intake rocker arm	<b>900-4065FA</b>	\$150.28
	Rear exhaust or front intake rocker arm	<b>900-4065RA</b>	\$150.28
Standard	Front exhaust or rear intake rocker arm	<b>900-4119FA</b> 17375-83A	\$77.96
	Rear exhaust or front intake rocker arm	<b>900-4119RA</b> 17360-83A	\$77.96
Roller	Rebuild kits (rebuilds 4 rocker arms)	<b>90-4104</b>	\$125.84
Roller & Standard	Rocker arm bushing ( $\frac{3}{4}$ " long)	<b>90-4014</b>	\$3.47

## NOTES

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.

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.

# PERFORMANCE REPLACEMENT CYLINDER HEADS FOR 3-1/2" AND 3-5/8" BORE

## FITMENT

- 1984-'99 big twins
- Stock displacement
- Stock bore strokers
- Big bore engines up to 96"

## FEATURES AND BENEFITS

- Compatible with stock or other flat topped pistons
- Heads can be decked .060" if higher compression is desired
- Port design increases flow, while maintaining velocity specifically designed for stock and small displacement engines
- Compatible with up to .585" lift cams with TDC lifts of .252" intake and .210" exhaust
- Stock diameter ports allows installation of original intake manifolds and exhaust
- Stock temperature sensor location for EFI equipped engines
- High compression is 76cc, low compression is 82cc in chamber

## KIT CONTENTS

- Two complete heads with valves and springs

## COMPRESSION RATIO COMPARISON CHART

Engine Size	S&S® Performance Replacement		Stock H-D®
	High Compression 76cc	Low Compression 82cc	
96"	10:1	9.5:1	9.75:1
89"	9.4:1	8.9:1	9.25:1
80"	8.8:1	8.4:1	8.5:1

## FLOW COMPARISON CHART

Cylinder Head Type	Valve Diameter		.600" Lift Flow @ 10"	
	Intake	Exhaust	Intake	Exhaust
Stock H-D®	1.840"	1.610"	125cfm	98cfm
S&S Performance Replacement	1.900"	1.575"	142cfm	109cfm
S&S® Super Stock®	2.000"	1.605"	158cfm	122cfm



106-4570

## S&S® PERFORMANCE REPLACEMENT CYLINDER HEADS

Finish	Low Compression 82cc*	MSRP	High Compression 76cc	MSRP
Natural	<b>106-3466</b>	\$1,092.06	<b>106-6059</b>	\$1,092.06
WBlack	<b>106-4570</b> 16696-92A	\$1,155.38	<b>106-6064</b>	\$1,155.38
Polished	<b>106-4575</b>	\$1,516.46	—	—

\*Used on V96 engines with flat top pistons

## S&S® GASKET KITS FOR S&S PERFORMANCE REPLACEMENT CYLINDER HEADS

Bore Size	Part No.	MSRP
3 1/2"	<b>90-1905</b>	\$32.87
3 5/8"	<b>90-1906</b>	\$32.87

## ALL OTHER SPECIFICATIONS AND FINISHES ARE AVAILABLE THROUGH SPECIAL ORDER

\* Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

**106-5696\*** Call for Pricing

## NOTE

S&S recommends that all clearances be checked with high lift cams, especially if the heads have been decked to increase compression.

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 FOR 3-1/2" AND 3-5/8" BORE

## FITMENT

- 1984-'99 big twin with 3 1/2" or 3 5/8" bore  
(not compatible with stock or flat top pistons)

## FEATURES AND BENEFITS

- Machined with a stock bolt pattern
- Larger, more open combustion chamber presents less resistance to air flow around the valves
- 2.000" intake valves and 1.605" exhaust valves
- Special "cast to shape" intake ports with a special directional fin for improved air flow
- Precision CNC machined from heat treated aircraft quality aluminum castings

## KIT CONTENTS

- Complete head assembly with valves and S&S .650" lift springs



## ADDITIONAL PARTS (REQUIRED)

Super Stock® Pistons  
 3 1/2" bore. .... See PAGE 226  
 3 5/8" bore. .... See PAGE 225  
 Gasket Kit ..... See chart

**REPLACEMENT PARTS: SEE PAGE 278**



90-1504

## ASSEMBLED S&S® SUPER STOCK™ HEAD KITS

Finish	Part No.	MSRP
Natural	<b>90-1004</b>	\$1,092.06
WBlack	<b>90-1504</b>	\$1,155.38
Polished	<b>90-1091</b>	\$1,516.46

## S&S® GASKET KITS

### FOR S&S SUPER STOCK™ CYLINDER HEADS

Bore Size	Part No.	MSRP
3 1/2"	<b>90-1905</b>	\$32.87
3 5/8"	<b>90-1906</b>	\$32.87

## ALL OTHER SPECIFICATIONS AND FINISHES ARE AVAILABLE THROUGH SPECIAL ORDER

\* Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

**106-5695\*** Call for Pricing

# SUPER STOCK™ CYLINDER HEADS FOR 4" BORE S&S ENGINES

## FITMENT

- 4" bore S&S V-Series engines

## FEATURES AND BENEFITS

- Special S&S 4" bore bolt pattern
- Machined for S&S manual or electric compression releases
- 2.000" intake valves and 1.605" exhaust valves
- Special "cast-to-shape" intake ports with a special directional fin for improved air flow
- Precision CNC machined from heat treated aircraft quality aluminum castings

## KIT CONTENTS

- 2 fully assembled cylinder heads with S&S valve springs (.640" or .585" lift)
- Threaded plugs to seal compression release holes



90-1015

## ASSEMBLED S&S® SUPER STOCK® HEAD KITS FOR 4" V-SERIES ENGINES

Description	Valve Springs	FINISH					
		Natural	MSRP	WBlack	MSRP	Polished	MSRP
84cc	.650" lift	<b>90-1015</b>	\$1,264.81	-	-	<b>90-1071</b>	\$1,554.95
93cc	.650" lift	<b>90-1009</b>	\$1,264.81	<b>90-1509</b>	\$1,332.03	<b>90-1070</b>	\$1,729.22
	.585" lift	<b>90-1280</b>	\$1,264.81	<b>90-1281</b>	\$1,332.03	<b>90-1282</b>	\$1,729.21

## NOTES

Due to expanded stud pattern, these heads will not fit on stock Evolution® engines  
84cc heads are stock on 100" engines  
93cc heads are stock on 107" and 113" engines

## EXTRA PARTS NEEDED:

Gasket Kit For S&S® 4" Bore Heads ..... **90-1909**

**REPLACEMENT PARTS: SEE PAGE 276**

**ALL OTHER SPECIFICATIONS AND FINISHES ARE AVAILABLE THROUGH SPECIAL ORDER**

\*Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

**106-5695\*** Call for Pricing

# CYLINDER HEADS FOR 4-1/8" BORE V-SERIES ENGINES

## FITMENT

- 4 1/8" bore S&S V-Series engines

## FEATURES AND BENEFITS

- Redesigned cooling fins – reduces mechanical noise
- 2.00" intake – 1.605" exhaust
- Complete head with .650 springs



90-1362

## 91cc 4 1/8" BORE S&S® REPLACEMENT CYLINDER HEADS

Finish	Part No.	MSRP
Natural	<b>90-1360</b>	\$1,438.69
WBlack	<b>90-1361</b>	\$1,499.79
Polished	<b>90-1362</b>	\$1,860.87

## NOTE

Replacement heads for existing engines with the old fin profile are available as complete front or rear head assemblies only, by special order.

**REPLACEMENT PARTS: SEE PAGE 278**

## S&S® GASKET KITS

## FOR S&S SUPER STOCK™ CYLINDER HEADS

Bore Size	Part No.	MSRP
4 1/8"	<b>90-1910</b>	\$46.53




**ALL OTHER SPECIFICATIONS AND FINISHES ARE AVAILABLE THROUGH SPECIAL ORDER**

\*Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

**90-1013\*** Call for Pricing

# HEAD BOLTS WITH WASHERS

## S&S® HEAD BOLT INFORMATION CHART

Length w/ Washer	Washer Thickness	Head Bolt w/Washer	MSRP	Washers Only	MSRP
1.690"	.250"	<b>93-3028</b> 	\$9.31	<b>50-7091</b>	\$1.63
1.840"	.100"	<b>93-3027</b>	\$9.31	<b>50-7088</b>	\$2.00
1.920"	.250"	<b>93-3036</b>	\$14.31	<b>50-7091</b>	\$1.63
2.070"	.100"	<b>93-3031</b>	\$14.31	<b>50-7088</b>	\$2.00
2.220"	.250"	<b>93-3038</b>	\$14.31	<b>50-7091</b>	\$1.63
2.370"	.100"	<b>93-3032</b>	\$14.31	<b>50-7088</b>	\$2.00
3.134"	.250"	<b>93-3029</b> 	\$14.31	<b>50-7091</b>	\$1.63
3.284"	.100"	<b>93-3030</b>	\$14.31	<b>50-7088</b>	\$2.00
3.501"	.250"	<b>93-3037*</b>	\$14.31	<b>50-7091</b>	\$1.63
3.651"	.100"	<b>93-3033*</b> 	\$14.31	<b>50-7088</b>	\$2.00






\* Drilled & tapped deeper to allow shortening for custom lengths.



## HEAD BOLT WASHERS

Thickness	Part No.	MSRP
.100"	<b>50-7088</b>	\$2.00
.150"	<b>50-0418-S</b>	\$1.52
.250"	<b>50-7091</b>	\$1.63

## S&S® HEAD BOLTS FOR HARLEY-DAVIDSON® 1984-'99 BIG TWINS

Displacement	Cylinder Length	Cylinder Head Type	Short Bolt w/Washer	MSRP	Long Bolt w/Washer	MSRP	Head Bolt Kit	MSRP
S&S® 89 / H-D® 80	5.550"	S&S + Late 1985-'91 H-D	<b>93-3027</b>	\$9.31	<b>93-3030</b>	\$14.31	<b>93-3010</b> 	\$78.48
		1991-99 H-D	<b>93-3036</b>	\$14.31	<b>93-3030</b>	\$14.31	<b>93-3014</b> 	\$112.14
S&S V96	5.565"	S&S + Late 1985-'91 H-D	<b>93-3027</b>	\$9.31	<b>93-3030</b>	\$14.31	<b>93-3010</b> 	\$78.48
		1991-99 H-D	<b>93-3036</b>	\$14.31	<b>93-3030</b>	\$14.31	<b>93-3014</b> 	\$112.14
S&S V100	4.745"	S&S	<b>93-3027</b>	\$9.31	<b>93-3037</b>	\$14.31	<b>93-3010</b> 	\$78.48
S&S V103	5.750"	S&S + Late 1985-'91 H-D	<b>93-3036</b>	\$14.31	<b>93-3037</b>	\$14.31	<b>93-3015</b>	\$112.14
		1991-99 H-D	<b>93-3038</b>	\$14.31	<b>93-3037</b>	\$14.31	<b>93-3016</b>	\$112.14
S&S V107	4.870"	S&S	<b>93-3038</b>	\$14.31	<b>93-3037</b>	\$14.31	<b>93-3016</b>	\$112.14
S&S V113	4.995"	S&S	<b>93-3032</b>	\$14.31	<b>93-3033</b>	\$14.31	<b>93-3013</b>	\$112.14
S&S V111	4.763"	S&S	—	—	<b>93-3030</b>	\$14.31	<b>93-3070</b>	\$112.14
S&S V117	4.888"	S&S	—	—	<b>93-3030</b>	\$14.31	<b>93-3070</b>	\$112.14
S&S V124	5.013"	S&S	—	—	<b>93-3033</b>	\$14.31	<b>93-3072</b>	\$112.14


## CALCULATING CUSTOM HEAD BOLT LENGTHS SEE PAGE 529



**50-0333**

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.

## S&S® CHROME HEAD BOLT COVERS

Set of 4	<b>50-0333</b> 	\$65.02
----------	--	---------

# BILLET AND DIE-CAST ROCKER COVERS

## FITMENT

- 1984-'99 big twins
- S&S 4 1/8" Bore

## FEATURES AND BENEFITS

- OEM-style "umbrella" fittings are included with billet rocker boxes for 1993-'99 big twin engines with cylinder head venting.
- Cast rocker boxes use an exclusive one way valve, which is built into the rocker cover gasket to control oil carry over in "head breathing" engines.
- S&S billet rocker covers are available in two finishes: show quality chrome or unfinished. Unfinished is ideal for powder coating and other custom cosmetic treatments. Die-cast covers are available in chrome finish only.
- Installation on stock and most comparable sized engines can be performed without removing the engine from the frame.



## KIT CONTENTS

- 2 covers
- All necessary gaskets, o-rings, and mounting hardware



90-4110

## S&S® DIE-CAST ROCKER COVER KITS & REPLACEMENT GASKET KIT

Application	Description	Part No.	MSRP
1984-'99 big twins	Chrome Die-Cast Rocker Cover Kit 	<b>90-4095</b>	\$724.93
	Replacement Gasket Kit	<b>90-4091</b>	\$62.77
S&S 4 1/8" Bore Engines	Chrome Die-Cast Rocker Cover Kit 	<b>90-4110</b>	\$724.93
	Replacement Gasket Kit	<b>90-4111</b>	\$54.51



S&amp;S billet rocker covers

## S&S® BILLET ROCKER COVER KITS & REPLACEMENT GASKET KIT

Description	Part No.	MSRP
Chrome Billet Rocker Cover Kit	<b>90-4050</b>	\$1,066.50
Unfinished Billet Rocker Cover Kit	<b>90-4055</b>	\$810.97
Replacement Gasket Kit	<b>90-4049</b>	\$64.11

## NOTES

In spite of the similarities between different S&S billet and cast rocker covers, not all parts are interchangeable. See PAGE 280 & PAGE 281 for correct part numbers.

The performance-oriented design of the billet rocker boxes permits valve lifts up to .710" with stock or S&S Super Stock® heads, and up to .810" with S&S Special Application heads. S&S roller rocker arms are recommended for high lift cams. Cast rocker boxes may require some minor clearancing, and it is recommended that they be ordered either polished or unfinished, so that clearancing may be done without disturbing chrome plated surfaces.

S&S billet rocker covers accept valve springs up to 1.660" O.D. without modification. Cast rocker boxes may require minor clearancing. Cylinder heads must be set up correctly for high-lift cams, and it remains the builder's responsibility to confirm all clearances.

Kits include front and rear cover assemblies with base and top cover, rocker shaft supports, gaskets and o-rings, and instructions.

REPLACEMENT PARTS: ON PAGE 280



# MANIFOLDS FOR CARBURETED ENGINES

## FITMENT

- 1984-'99 big twins
- S&S and other butterfly carbs
- CV carbs

## FEATURES AND BENEFITS

- Fits stock or S&S heads
- Available for stock engines and engines with longer or shorter cylinders
- Other lengths are available by special order
- Provision for VOES lines, MAP sensors, and cylinder head vents in 4 1/8" bore engines

### S&S® CV MANIFOLDS FOR 1984-'99 BIG TWINS

Displacement	Cylinder Length	Size Number	Part No.	MSRP
80", 89", 96"	5.550"	410	<b>160-1736</b>	\$116.57
88"	5.375"	397	<b>160-1733</b>	\$116.57
93"	5.500"	406	<b>160-1734</b>	\$116.57
100"	*4.745"	387	<b>160-1732</b>	\$116.57
107"	*4.870"	397	<b>160-1733</b>	\$116.57
113"	*4.995"	406	<b>160-1734</b>	\$116.57
Special Order	Specify	Specify	<b>169-1725A**</b>	Call for Pricing

\* Cylinder lengths reflect the use of S&S SA crankcases with +.500 deck height in S&S 4" bore engines.

\*\* Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

**SEE PAGE 239 FOR U-RINGS FOR CONSTANT VELOCITY CARBS**



**160-1628**  
Big twins with stock or  
S&S Super Stock® ignition



**16-2588**  
Engines with S&S IST® Ignition  
(MAP Sensor ready manifold)



**16-2594**  
S&S 4 1/8" bore engines  
with Super Stock ignition



**160-1736**  
CV style carbs

**NOTE**

S&S style o-rings must be used with these manifolds. S&S o-rings are slightly thinner to accommodate the larger S&S port diameter. Use of stock o-rings may damage the manifold. See PAGE 261.

### S&S® MANIFOLDS FOR CARBURETED 1984-'99 EVOLUTION® AND S&S ENGINES WITH STOCK OR S&S SUPER STOCK™ IGNITION – VOES FITTING

Displacement	Cylinder Length	Size Number	S&S ES, LS, Super A, B, E, Tillotson®, Bendix®, Keihin®	MSRP	Super G	MSRP	Super D	MSRP
88"	5.375"	397	<b>160-1626</b>	\$100.54	<b>16-2526</b>	\$100.54	—	—
93"	5.500"	406	<b>160-1627</b>	\$100.54	<b>16-2527</b>	\$100.54	—	—
80", 89", 96"	Stock (5.550")	410	<b>160-1628</b>	\$100.54	<b>16-2528</b>	\$100.54	<b>16-3528</b>	\$95.95
103"	5.750"	426	<b>160-1632</b>	\$100.54	<b>16-2532</b>	\$100.54	<b>16-3532</b>	\$100.54
107"	*5.375"	397	<b>160-1626</b>	\$100.54	<b>16-2526</b>	\$100.54	—	—
111"	4.763"	398	<b>160-1760</b>	\$116.57	—	—	—	—
113"	*5.500"	406	<b>160-1627</b>	\$100.54	<b>16-2527</b>	\$100.54	—	—
Special Order	Specify	Specify	<b>169-1639**</b>	Call for Pricing	<b>16-2539**</b>	Call for Pricing	<b>16-3539A**</b>	Call for Pricing

\* Cylinder lengths reflect the use of S&S SA crankcases with +.500 deck height in S&S 4" bore engines.

\*\* Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

### SPECIAL INTAKE MANIFOLDS FOR CARBURETED S&S® ENGINES FOR 1984-'99 BIG TWINS (REQUIRING MAP SENSOR MACHINING)

Displacement	Cylinder Length	Size Number	Super E	MSRP	Super G	MSRP	Super D	MSRP
<b>Evolution and S&amp;S Engines with Intelligent Spark Technology (IST®) Ignition – MAP Sensor Port</b>								
80", 89", 96"	5.550"	410	<b>160-1718</b>	\$100.54	<b>16-2588</b>	\$100.54	—	—
107"	4.870"	397	<b>160-1643</b>	\$100.54	—	—	—	—
111"	4.763"	398	<b>160-4487</b>	\$116.57	<b>16-2604</b>	\$123.86	—	—
113"	4.995"	406	—	—	<b>16-2606</b>	\$100.54	—	—
117"	4.888"	408	—	—	<b>16-2603</b>	\$100.54	—	—
124"	5.013"	417	—	—	<b>16-2598</b>	\$100.54	<b>16-3593</b>	\$100.54
Special Order	Specify	Specify	<b>169-1639**</b>	Call for Pricing	<b>16-2539**</b>	Call for Pricing	<b>16-3539A**</b>	Call for Pricing
<b>4 1/8" Bore S&amp;S Engines with Super Stock® Ignition – Extra Vacuum Fitting</b>								
111"	4.763"	398	<b>160-1760</b>	\$116.57	<b>16-2594</b>	\$100.54	—	—
117"	4.888"	408	—	—	<b>16-2595</b>	\$100.54	—	—
124"	5.013"	417	—	—	<b>16-2596</b>	\$100.54	<b>16-3592</b>	\$100.54
Special Order	Specify	Specify	—	—	<b>16-2539**</b>	Call for Pricing	<b>169-0002**</b>	Call for Pricing

\*\*Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

## REPLACEMENT PARTS FOR MANIFOLDS

Description	Part No.	MSRP
Manifold Fitting VOWS Rubber Cap $\frac{3}{16}$ " I.D. x $\frac{5}{16}$ " O.D. x $\frac{1}{2}$ "	50-8372	\$1.33
Manifold Vacuum Fitting	16-0136-S	\$2.99

## U-RINGS FOR CONSTANT VELOCITY CARBS

Description	Part No.	MSRP
U-ring, 40-42mm 27002-89	16-0242	\$22.95
U-ring, 44-48mm	16-0241	\$16.48



16-0136-S



50-8372



16-0241



16-0242

## MANIFOLDS FOR SINGLE BORE EFI ENGINES

## FITMENT

- Stock or S&S Hot Set Up Kit® equipped 1995-'98 big twins with S&S 52mm or 58mm throttle bodies, stock or S&S heads
- S&S V-Series engines

## NOTE

The included S&S style o-ring, part #16-0235, must be used with these manifolds. S&S o-rings are slightly thinner to accommodate the larger S&S port diameter. Stock o-rings may damage the manifold.



16-5141

## S&amp;S SINGLE BORE EFI MANIFOLDS

Displacement	Cylinder Length	Size Number	Part No.	MSRP
80", 89", 96"	5.550"	410	16-5141	\$166.46
V107"	4.763"	398	16-5136	\$154.99
V111"	4.763"	398	16-5136	\$154.99
V117"	4.888"	408	16-5138	\$154.99
V124"	5.013"	417	16-5139	\$166.46
Special Order	Specify	Specify	16-5142**	Call for Pricing

Manifolds include the required S&S style o-ring.

\*\*Special Order: Download the Special Order Form at [sscycle.com/soforms](http://sscycle.com/soforms)

## MANIFOLD CONVERSION KIT

## S&amp;S® MANIFOLD CONVERSION SELECTION CHART

Application	Cylinder Length	Size No.	S&S ES, LS, Super B, Super E Tillotson®, Bendix®, Keihin®	MSRP
1984-'89 big twin	5.550"	410	160-1658	\$123.86

## REPLACEMENT PARTS

Description	Part No.	MSRP
Manifold	160-1628	\$100.54
Flanges	Front 27009-86A each	16-0232 \$20.40
	5 pack	16-0600 \$100.54
	Rear 27010-86A each	16-0233 \$20.40
	5 pack	16-0601 \$100.54
	Set (Front & Rear)	106-3516 \$40.00
O-Rings	each	16-0235 \$5.03
	10 pack	16-0243 \$45.07
0.350" Spacers	50-7044	\$1.85



## NOTES

S&S rigid mount manifolds are designed to improve intake tract air flow.

These manifolds may change the way a stock carburetor and air cleaner assembly fit. This means that these components may require shimming and/or a slight change in mounting bracketing.

S&S manifold conversion kits for Harley-Davidson® Evolution® are designed to fit stock displacement engines.

Series #16-1600 manifolds included in Manifold Conversion Kits are machined with a  $1\frac{1}{8}$ " throat and will fit stock Keihin® butterfly carburetors, all S&S  $1\frac{3}{4}$ " and  $1\frac{7}{8}$ " carbs, and any other carburetors with the same mounting bolt pattern.

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

# BLACK SUPER E & G CARBURETORS

## FEATURES AND BENEFITS

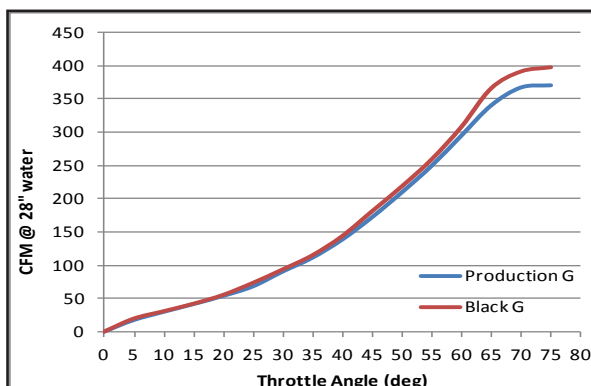
- Exclusive black satin Enduraguard® coating — heat and chemical resistant
- Increased venturi diameter! — specially machined for 7% more flow— See flow chart

## S&S® BLACK CARBURETORS

Fitment	Description	Part No.	MSRP
1984-'05 big twins	Super E Carb	<b>110-0099</b>	\$403.36
	Super G Carb	<b>110-0100</b>	\$424.24



110-0099



Flow at WOT (wide open throttle) for the Black G carb increases 7% vs. the base S&S G carb

## NOTE

These black carb kits do not include air cleaners. Air cleaner options are available starting on PAGE 245.

DISCLAIMER: FOR CLOSED COURSE COMPETITION USE ONLY. NOT INTENDED FOR STREET USE.

# TÜV APPROVED SUPER E CARBURETOR KITS

## FITMENT

- 1984-'99 big twins (except FXR Models)

## KIT CONTENTS

- Documentation proving TÜV approval
- 1 7/8" bore Super E carburetor
- Chrome Classic Teardrop air cleaner cover, Air filter, Intake manifold
- All mounting hardware and gaskets
- Complete instructions

## TÜV APPROVED S&S® SUPER E CARB KIT

Application	Part No.	MSRP
1993-'99 big twin (except FXR Models)	<b>106-2480</b>	\$664.10
1984-'92 big twin (except FXR Models)	<b>106-2478</b>	\$723.55



106-2480

# SUPER E & G COMPLETE CARBURETOR KITS

## FITMENT

- 1984-'99 big twins

## FEATURES AND BENEFITS

- Four fuel delivery ports — Better throttle response
- O-ring sealed idle mixture screw
- Increased air flow for more power
- Adjustable accelerator pump for quick throttle response and easy starting
- Utilization of the factory dual cable system ensures safe operation
- Direct replacement and high quality fit and finish — less down time and better performance
- Variable position enrichment starting system

## KIT CONTENTS

- Super E or G carburetor
- S&S intake manifold (For engines with stock length cylinders)
- Classic Teardrop air cleaner kit
- Mounting hardware
- Gaskets, seals and hoses
- Instructions



11-0419

## S&S® SUPER E & G COMPLETE CARBURETOR KITS

Fitment	Super E	MSRP	Super G	MSRP
1993-'99 big twin	<b>11-0419</b>	\$609.00	<b>11-0434</b>	\$626.36
1984-'92 big twin	<b>11-0407</b>	\$609.00	<b>11-0427</b>	\$626.34

## S&S® SUPER E & G PARTIAL KIT (NO MANIFOLD)

Fitment	Super E	MSRP	Super G	MSRP
1993-'99 big twin	<b>11-0442</b>	\$539.40	-	-
1984-'92 big twin	<b>11-0440</b>	\$539.40	-	-
1993-'99 big twin	-	-	<b>11-0446</b>	\$553.28

Does not include intake manifold. Partial kit designed for engines with longer/shorter than stock cylinders. Manifold is ordered separately. See PAGE 238

## S&S® SUPER E & G CARBURETOR ONLY

Fitment	Super E	MSRP	Super G	MSRP
All Years & Models	<b>11-0420</b>	\$365.36	<b>11-0421</b>	\$386.24



As the throttle plate opens, it exposes more of these holes to engine vacuum and delivers more fuel as rpm increases. When you run out of holes in the intermediate system, the main jet comes in and handles fuel delivery for the higher rpm.

**REPLACEMENT PARTS: SEE PAGE 294**

## OPTION

Optional cruise control adapter kits allows riders to keep factory cruise feature.



## CRUISE CONTROL ADAPTER KIT

Fitment	Part No.	MSRP
1998-'99 big twin	<b>11-2927</b>	\$71.30

## NOTES

S&S® does not recommend polishing or chrome plating Super E & G carbs. Our repair department has seen many carbs with plugged passages due to polishing compounds, and some carbs that have been destroyed because the polishing or chrome plating had altered critical machined surfaces.

Recommended for closed circuit use only—S&S Super E & G carbs shown are not approved for use on motor vehicles operated on California public highways, or in other states where similar pollution laws may apply. The user shall determine the suitability of the product for his or her use and shall assume all risk and liability in connection therewith.

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.

# TWO CABLE THROTTLE ASSEMBLIES

The S&S two cable throttle assemblies are high quality "pull open – pull close" type throttles designed for use on any two cable carburetor installations on bikes with 1" O.D. handlebars. A special soft plastic material used to mold the grips makes them look and feel exactly like stock grips. There are four different assemblies available to make installation on most chassis easy.

## TWO CABLE THROTTLE REQUIRED

S&S Super E and G carburetors require the use of a two cable, pull open–pull closed throttle assembly. Any chassis including 1980 and earlier stock models equipped with a single cable throttle mechanism requires conversion to a two cable, pull open–pull closed type. S&S offers high quality two cable throttle assemblies for this purpose. Stock big twin models from 1981 to present have a two cable throttle and should not require changing. Super E and G Carb kits for 1990 and later models come with the new longer throttle cable guide bracket which allows the use of the stock CV style throttle cables.



## NOTE

The chart on this page is used only when using throttle cable bracket part #11-2339. This bracket is standard on all S&S Super E & G carburetor kits for big twins 1989 and earlier and all kits for Harley-Davidson® Sportster® models with the exception of the kit for 2004-'05 models. Carburetor kits for 1990 and later big twin models come with the longer cable bracket part #11-2338 for use with stock CV throttle cables. Super E and G carburetors ordered for big twin models 1981 and later are being shipped with the correct throttle cable bracket to fit the stock cables. Big twin carbs that are not year specific will be shipped with both cable brackets. All Sportster models 1988-'03 will still require conversion to butterfly style cables.

## S&S® THROTTLE CABLE APPLICATION CHART

Application	Fastening Method	Length Total Housing	Length Vinyl Housing	Open Side	MSRP	Close Side	MSRP
FX and FL models 1985 and earlier* Big Twin models 1995 and earlier*	Threaded	36"	32"	<b>19-0432</b>	\$42.26	<b>19-0433</b>	\$42.26
To 1995 Harley-Davidson® Softail® (FXSTC, FXST, FLSTC, FLSTF) 1986-'94 FXR, 1993-'95 Dyna®	Threaded	39"	35"	<b>19-0434</b>	\$42.26	<b>19-0435</b>	\$42.26
To 1995 All FLT models	Threaded	48"	44"	<b>19-0462</b>	\$42.26	<b>19-0463</b>	\$42.26
To 1995 custom application	Threaded	42"	38"	<b>19-0446</b>	\$42.26	<b>19-0447</b>	\$42.26
1996-'99 Softail (FXSTS, FXSTC, FLSTC, FLSTF) 1996-'99 Dyna®	Snap-in	39"	35"	<b>19-0438</b>	\$42.26	<b>19-0439</b>	\$42.26
1996-'99 All FLT models	Snap-in	48"	44"	<b>19-0464</b>	\$42.26	<b>19-0465</b>	\$42.26
1996-'99 custom application	Snap-in	42"	38"	<b>19-0440</b>	\$42.26	<b>19-0441</b>	\$42.26

\*1980 and earlier must be converted to dual cable throttle assembly  
1998 and later required Harley-Davidson® throttle assembly #71831-96.

## REPLACEMENT PARTS

Description	Part No.	MSRP
S&S Universal Throttle Cable	<b>106-3520</b>	\$22.38
Throttle Grip Clamp Set 1985-'95	<b>106-3519</b>	\$22.38
Top Throttle Grip Clamp only	<b>19-0222</b>	\$11.66
Bottom Throttle Grip Clamp only	<b>19-0220</b>	\$12.58
Throttle Grip Clamp Screw (Fits S&S throttle assemblies: Part #19-0448, #19-0449, #19-0482, #19-0450, #19-0229)	<b>50-0043</b>	\$2.29
Throttle Grip Set	<b>106-3521</b>	\$42.26
Right Hand Grip only	<b>19-0225</b>	\$29.14
Left Hand Grip only	<b>19-0226</b>	\$23.31
Cable Adjuster (Fits S&S throttle assembly part #19-0229)	<b>19-0223</b>	\$3.70
Cable Adjuster Jam Nut (Fits S&S throttle assembly part #19-0229)	<b>19-0227</b>	\$0.68
Handlebar Spacing Sleeve 4" x 1" O.D. – converts 7/8" handlebars to 1" O.D.	<b>19-0235</b>	\$17.40



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.



# JETS & CARB REBUILD KITS FOR S&S SUPER E & G CARBURETORS

For those who need to rejet their carburetor because of engine modifications, exhaust modifications, or changes in altitude, we have extra jet kits available which are designed to cover most jetting situations.

## DEALER JET KITS

Description	Part No.	MSRP
S&S Carb Parts Kit (Contains needed parts to maintain S&S Super E and G carburetors)	<b>11-3103</b>	\$355.96
S&S Jet Kit (Includes 3 each of all intermediate jets and 5 each of all main jets, plus a main jet tool)	<b>11-3102</b>	\$331.93

## JET PACKS

Description	Part No.	MSRP
Low Range Jet Pack – For jetting most stock and moderate performance engines.		
Includes one each intermediate jets (.025", .0265", .028", .0295") one each main jets (.062", .064", .066", .068", .070", .072", .074").	<b>11-7270</b>	\$49.25
High Range Jet Pack – For jetting some stock and all performance engines.		
Includes one each intermediate jets (.0295", .031", .032", .033") and one each main jets (.072", .074", .076", .078", .080", .082", .084").	<b>11-7271</b>	\$49.25
Master Jet Pack – For jetting all Super B, E, and G equipped engines.		
Includes one each intermediate jets (.025", .0265", .028", .0295", .031", .032", .033") and one each main jets (.062", .064", .066", .068", .070", .072", .074", .076", .078", .080", .082", .084").	<b>11-7272</b>	\$84.92

## INTERMEDIATE JETS - SERIES #94 INDIVIDUAL SELECTION

Size	QTY	Part No.	MSRP	Size	QTY	Part No.	MSRP
.025	each	<b>11-0250</b>	\$9.22	.032	each	<b>11-0320</b>	\$9.22
	3 pack	<b>11-7107</b>	\$25.12		3 pack	<b>11-7112</b>	\$25.12
.0265	each	<b>11-0265</b>	\$9.24	.033	each	<b>11-0330</b>	\$9.22
	3 pack	<b>11-7108</b>	\$25.12		3 pack	<b>11-7113</b>	\$25.12
.028	each	<b>11-0280</b>	\$9.24	.036	each	<b>11-0360</b>	\$9.22
	3 pack	<b>11-7109</b>	\$25.12		3 pack	<b>11-7114</b>	\$25.12
.0295	each	<b>11-0295</b>	\$9.24	.040	each	<b>11-0400</b>	\$9.22
	3 pack	<b>11-7110</b>	\$25.12		3 pack	<b>11-7115</b>	\$25.12
.031	each	<b>11-0310</b>	\$9.22	Blank	each	<b>11-0000</b>	\$9.22
	3 pack	<b>11-7111</b>	\$25.12				

Early Series #94 gas jets were stamped with single digit numbers. Conversions for these numbers are:

1.....	.025"	4.....	.033"
2.....	.028"	5.....	.036"
3.....	.031"	6.....	.040"

## NOTES

No returns or exchanges on jets.

Refer to Section 8: Racing for the S&S fuel and turbo carburetors.



11-3103



11-3102



11-7272



106-3517

# 1984-1999 Big Twins

## MAIN JETS - SERIES #72 INDIVIDUAL SIZE SELECTION

Size	QTY	Part No.	MSRP	Size	QTY	Part No.	MSRP
.040	each	<b>11-4040</b>	\$8.07	.080	each	<b>11-4080</b>	\$8.07
	5 pack	<b>11-7220</b>	\$36.66		5 pack	<b>11-7240</b>	\$36.66
.042	each	<b>11-4042</b>	\$8.07	.082	each	<b>11-4082</b>	\$8.07
	5 pack	<b>11-7221</b>	\$36.66		5 pack	<b>11-7241</b>	\$36.66
.044	each	<b>11-4044</b>	\$8.07	.084	each	<b>11-4084</b>	\$8.07
	5 pack	<b>11-7222</b>	\$36.66		5 pack	<b>11-7242</b>	\$36.66
.046	each	<b>11-4046</b>	\$8.07	.086	each	<b>11-4086</b>	\$8.07
	5 pack	<b>11-7223</b>	\$36.66		5 pack	<b>11-7243</b>	\$36.66
.048	each	<b>11-4048</b>	\$8.07	.088	each	<b>11-4088</b>	\$8.07
	5 pack	<b>11-7224</b>	\$36.66		5 pack	<b>11-7244</b>	\$36.66
.050	each	<b>11-4050</b>	\$8.07	.090	each	<b>11-4090</b>	\$8.07
	5 pack	<b>11-7225</b>	\$36.66		5 pack	<b>11-7245</b>	\$36.66
.052	each	<b>11-4052</b>	\$8.07	.092	each	<b>11-4092</b>	\$8.07
	5 pack	<b>11-7226</b>	\$36.66		5 pack	<b>11-7246</b>	\$36.66
.054	each	<b>11-4054</b>	\$8.07	.094	each	<b>11-4094</b>	\$8.07
	5 pack	<b>11-7227</b>	\$36.66		5 pack	<b>11-7247</b>	\$36.66
.056	each	<b>11-4056</b>	\$8.07	.096	each	<b>11-4096</b>	\$8.07
	5 pack	<b>11-7228</b>	\$36.66		5 pack	<b>11-7248</b>	\$36.66
.058	each	<b>11-4058</b>	\$8.07	.098	each	<b>11-4098</b>	\$8.07
	5 pack	<b>11-7229</b>	\$36.66		5 pack	<b>11-7249</b>	\$36.66
.060	each	<b>11-4060</b>	\$8.07	.100	each	<b>11-4100</b>	\$8.07
	5 pack	<b>11-7230</b>	\$36.66		5 pack	<b>11-7250</b>	\$36.66
.062	each	<b>11-4062</b>	\$8.07	.102	each	<b>11-4102</b>	\$8.07
	5 pack	<b>11-7231</b>	\$36.66		5 pack	<b>11-7251</b>	\$36.66
.064	each	<b>11-4064</b>	\$8.07	.104	each	<b>11-4104</b>	\$8.07
	5 pack	<b>11-7232</b>	\$36.66		5 pack	<b>11-7252</b>	\$36.66
.066	each	<b>11-4066</b>	\$8.07	.106	each	<b>11-4106</b>	\$8.07
	5 pack	<b>11-7233</b>	\$36.66				
.068	each	<b>11-4068</b>	\$8.07	.108	5 pack	<b>11-7254</b>	\$34.95
	5 pack	<b>11-7234</b>	\$36.66				
.070	each	<b>11-4070</b>	\$8.07	.110	each	<b>11-4110</b>	\$8.07
	5 pack	<b>11-7235</b>	\$36.66		5 pack	<b>11-7255</b>	\$36.66
.072	each	<b>11-4072</b>	\$8.07	.115	each	<b>11-4115</b>	\$8.07
	5 pack	<b>11-7236</b>	\$36.66		5 pack	<b>11-7256</b>	\$36.66
.074	each	<b>11-4074</b>	\$8.07	.120	each	<b>11-4120</b>	\$8.07
	5 pack	<b>11-7237</b>	\$36.66		5 pack	<b>11-7257</b>	\$36.66
.076	each	<b>11-4076</b>	\$8.07	Blank	each	<b>11-4040</b>	\$8.07
	5 pack	<b>11-7238</b>	\$36.66		5 pack	<b>11-7258</b>	\$36.66
.078	each	<b>11-4078</b>	\$8.07				
	5 pack	<b>11-7239</b>	\$36.66				

## MAIN JET AIR BLEED KIT (One Jet Each Size)

Sizes	Part No.	MSRP
.042" - .060"	<b>106-3517</b>	\$66.26
.084" - .120"	<b>106-3518</b>	\$53.49

## S&S® CARBURETOR REBUILD KITS

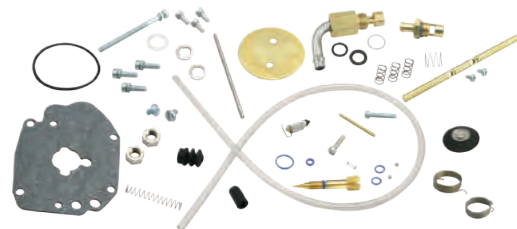
To insure that you continue to get the utmost in performance from your S&S carburetor, we have put together a series of rebuild kits that are designed to provide the proper parts to return a worn carburetor to top shape. We have assembled different types of kits to cover the different degrees of rebuild necessary.

## MASTER REBUILD KITS

Master rebuild kits contain a body rebuild kit, accelerator pump rebuild kit (Super E and G only), all new fasteners, springs, idle mixture screw, seat, and needle assembly. Everything needed to completely rebuild one carburetor.

### MASTER REBUILD KIT

Description	Part No.	MSRP
Super E	<b>11-2923</b>	\$84.92
Super G	<b>11-2924</b>	\$84.92



**11-2923**

## BODY REBUILD KITS

Body rebuild kits for Super E and G carbs also contain throttle shaft nuts, nylon washers, accelerator pump o-ring, and accelerator pump boot. Body rebuild kits for Super E and G carbs do not contain throttle shaft bushings since these carbs have stainless steel throttle shaft bushings already installed.

### BODY REBUILD KIT

Description	Part No.	MSRP
Super E	<b>11-2906</b>	\$42.97
Super G	<b>11-2907</b>	\$42.97



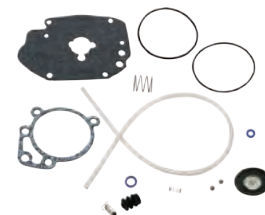
**11-2907**

## BASIC REBUILD KIT

A gasket and seal kit for low mileage Super E & G carbs. Perfect to reassemble carbs taken apart for inspection and cleaning.

### BASIC REBUILD KIT

Description	Part No.	MSRP
Super E & G	<b>110-0067</b>	\$36.43



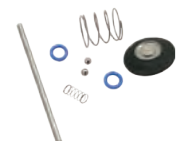
**110-0067**

## ACCELERATOR PUMP REBUILD KITS

Accelerator pump rebuild kits contain diaphragm, diaphragm spring, check balls, check ball spring, pump pushrod, and required hardware and o-rings.

### ACCELERATOR PUMP REBUILD KIT

Description	Part No.	MSRP
Super E & G	<b>11-2918</b>	\$20.94



**11-2918**

# STEALTH AIR CLEANER KITS

## FITMENT

- 1993-'99 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™ air cleaner cover – *the word "sleeper" comes to mind (except 2015 air cleaner covers)*
- Can also be used with any of several S&S designed covers. See PAGE 246
- High flow (1" taller) filter kit available

## NOTES

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 vehicle.

### S&S STEALTH AIR CLEANER KITS\*



STEALTH

Application	Fuel System	Part No.	MSRP
1993-'99 bt	Stock CV	<b>170-0100</b>	\$135.31
	S&S Super E & G Carbs	<b>170-0057</b>	\$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 WITH CHROME AIRSTREAM COVER



AIRSTREAM

Application	Fuel System	Part No.	MSRP
1993-'99 bt	Stock CV	<b>170-0055</b>	\$272.30
	S&S Super E & G Carbs	<b>170-0062</b>	\$272.30

### S&S STEALTH AIR CLEANER KITS WITH CHROME MUSCLE COVER



MUSCLE

Application	Fuel System	Part No.	MSRP
1993-'99 bt	Stock CV	<b>170-0103</b>	\$225.66
	S&S Super E & G Carbs	<b>170-0109</b>	\$225.66

### S&S STEALTH AIR CLEANER KITS WITH CHROME BOBBER-DISHED COVER



BOBBER-DISHED

Application	Fuel System	Part No.	MSRP
1993-'99 bt	Stock CV	<b>170-0101</b>	\$225.66
	S&S Super E & G Carbs	<b>170-0107</b>	\$225.66

### S&S SUPER STOCK® STEALTH AIR CLEANER KITS WITH CHROME BOBBER-DOMED COVER



BOBBER-DOMED

Application	Fuel System	Part No.	MSRP
1993-'99 bt	Stock CV	<b>170-0102</b>	\$263.86
	S&S Super E & G Carbs	<b>170-0108</b>	\$263.86

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

Fitment	Fuel System	Part No.	MSRP
V111 Long Block 1984-'99 bt (p/n 310-0766)	S&S E or G Carburetor	<b>170-0057</b>	\$135.31
V111 Long Block 1984-'99 bt (p/n 310-0766)	Stock CV/EFI Delphi®	<b>170-0100</b>	\$135.31
V80 Long Block 1984-'99 bt (p/n 310-0233 & 310-0232)	S&S E or G Carburetor	<b>170-0057</b>	\$135.31
V80 Long Block 1984-'99 bt (p/n 310-0233 & 310-0232)	Stock CV/EFI Delphi®	<b>170-0100</b>	\$135.31
1995-1999 S&S Super Stock Engines	S&S Single Bore VFI 52mm Throttle Bodies	<b>170-0287</b>	\$199.95
1995-1999 EFI big twins	S&S Single Bore VFI 58mm Throttle Bodies	<b>170-0283</b>	\$199.95
1999-2017 EFI big twins	S&S Single Bore VFI 58mm Throttle Bodies	<b>170-0284</b>	\$199.95

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.

# STEALTH AIR CLEANER KIT COVERS

## FITMENT

- All S&S Stealth Air Cleaners



**Air 1**



**Tri-Spoke**



**Torker**



**Airstream**



**Muscle**



**Bobber-dished**

## S&S STEALTH COVERS

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



# CLASSIC TEARDROP AIR CLEANER KIT

## FITMENT

- 1984-'99 big twins
- S&S V-Series engines

## FEATURES AND BENEFITS

- Uniquely designed backplate has air horn style radiused entryway to reduce turbulence
- Dimpled cover with directional air cone on inside creates smooth path for air
- Great addition to performance exhaust or cams

## KIT CONTENTS

- Filter
- Classic Teardrop air cleaner cover
- Backing plate
- All mounting hardware



17-0450

## CLASSIC TEARDROP AIR CLEANER KITS

Model/Engine	Finish	Stock Carb/EFI		S&S L, H-D®Tillotson®, Bendix®, Keihin®		S&S Super E/G	
1993-'06 HD® Carbureted Big Twins	Chrome	<b>17-0450</b>	\$250.50	—	—	<b>17-0404</b>	\$250.50
	Gloss Black	<b>170-0181A</b>	\$250.50	—	—	—	—
1990-'92	Chrome	—	—	—	—	<b>17-0399</b>	\$250.50
1984-'89	Chrome	—	—	<b>17-0108</b>	\$239.95	<b>17-0399</b>	\$250.50
S&S 4 1/8" Bore Engines	Slasher Chrome	—	—	—	—	<b>17-0416</b>	\$250.50

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.

## CLASSIC TEARDROP AIR CLEANER KITS S&S SINGLE BORE EFI

Model/Engine	Finish	52mm	MSRP	58mm	MSRP
S&S 4 1/8" Bore Engines	Chrome	<b>17-0496</b>	\$239.95	<b>106-4668</b>	\$243.56

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 STARTING ON PAGE 284



17-0378



170-0384A




17-0071



17-0004

## TEARDROP AIR CLEANER COVERS

Style	Finish	Part No.	MSRP
Classic Teardrop	Chrome	<b>17-0378</b> 	\$150.29
	Gloss Black	<b>170-0384A</b>	\$145.00
Slasher Teardrop	Chrome	<b>17-0004</b>	\$150.29
Nostalgic Teardrop	Polished	<b>17-0071</b>	\$174.13

## NOTE

Fuel delivery (carbureted or EFI) may need to be modified to maintain the correct air and fuel mixture.



# CARB EXEMPT AIR CLEANER KITS

## FITMENT

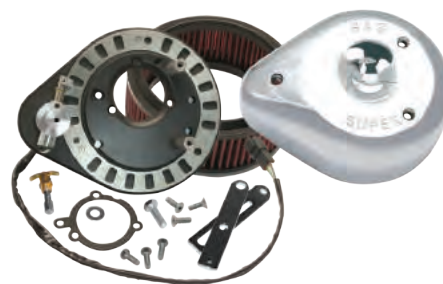
- 50-State emissions compliant S&S V-Series engines

## KIT CONTENTS

- Filter
- Cover
- Valve assembly, backplate, sealed air cleaner
- Necessary mounting hardware and o-rings

## SEALED AIR CLEANER KITS

Engine	Part No.	MSRP
V96, V100, V113	<b>106-1449</b>	\$768.99
V111, V117, V124	<b>106-3082</b>	\$768.99



106-1449

S&S® sealed air cleaner kit uses a solenoid operated nickel plated rotary valve to keep hydrocarbons from escaping into the atmosphere when the engine is not running, but opens to allow air to enter when the starter button is depressed.

# SINGLE BORE TUNED INDUCTION SYSTEM

## FITMENT

- 1984-'99 big twin
- S&S V-Series

## 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

## S&S SINGLE BORE TUNED INDUCTION SYSTEM KITS

Fitment	Fuel Delivery	Finish	Part No.	MSRP
4 1/8" Bore S&S V-Series	S&S Single Bore EFI	Chrome/Red Filters	<b>170-0083</b>	\$587.19
4 1/8" Bore S&S V-Series	S&S Super E/G	Chrome/Red Filters	<b>170-0084</b>	\$587.19
1984-'99 big twins	S&S Single Bore EFI	Chrome/Red Filters	<b>170-0085</b>	\$587.19
1984-'99 big twins	S&S Super E/G	Chrome/Red Filters	<b>170-0086</b>	\$587.19
1984-'06 big twins	Stock CV	Chrome/Red Filters	<b>170-0087</b>	\$587.19
<b>CTO</b>	Specify	Specify	<b>106-5337*</b>	Call for Pricing

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



106-0248



17-1020



17-1023



106-1163



106-1164

## NOTES

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

Tuned induction system does not fit Dyna® Wide Glide® models due to runner to gas tank interference.

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

## REPLACEMENT PARTS: SEE PAGE 283

## ACCESSORIES

Description		Part No.	MSRP
Air Filter (each sold with clamp)	Red	<b>17-1020</b>	\$54.00
	Blue	<b>17-1023</b>	\$54.00
Air Filter Oil, 8 oz. Bottle	Red	<b>106-1163</b>	\$16.03
	Blue	<b>106-1164</b>	\$16.03
Nylon Air Filter Cover	each	<b>106-0247</b>	\$26.17
	2 pack	<b>106-0248</b>	\$47.15

# BREATHER CONVERSION KIT

## FITMENT

- 1993-'99 big twin

## FEATURES AND BENEFITS

- Instead of o-rings, banjo fittings are sealed with durable silicon coated washers

## S&S® BREATHER CONVERSION KIT

Application	Part No.	MSRP
1993-'99 big twins	<b>17-0486</b>	\$34.56

Breather conversion kit for big twin engines updates earlier S&S air cleaner kits for 1993-'99 big twins to the latest breather hardware.



17-0486

# 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 Stealth Air Filter	<b>170-0193</b>	\$24.28
1" Tall Stealth Air Filter	<b>170-0197</b>	\$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 (includes spacers)	Classic Teardrop	<b>17-0045</b>	\$55.55
	Stealth, 1" Taller	<b>170-0127*</b>	\$61.16
1" Taller Filter Only		<b>106-4724</b>	\$23.42
	Stealth	<b>170-0154</b>	\$40.80
Spacer	Classic Teardrop & Stealth, 1" Taller	<b>50-5009-S</b>	\$12.69

\*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.



**170-0127**



**17-0045**

# STANDARD REPLACEMENT FILTERS

### S&S® STANDARD REPLACEMENT AIR FILTERS

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

1984-1999 Big Twins

# 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

*\*Tested with S&S Power Tune Dual Header and Stealth Air Cleaner Kit*

**S&S® Mk45 4.5" TOURING MUFFLERS W/END CAPS**

Muffler Body Finish	End Cap Finish & Style	Part No.	MSRP
Chrome	Chrome Thruster	550-0620	\$699.95
	Black Contrast Cut Thruster	550-0619	\$699.95
	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

**NOTES**

SEE SPECIAL NOTES ON PAGE 254 FOR DISCLAIMERS

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

# new 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 horsepower
- Made in the USA!
- 50-state legal



# 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	<b>550-0689</b>	\$499.95
Grand National End Cap/Black	<b>550-0690</b>	\$539.95
Slash-Down/Chrome	<b>550-0691</b>	\$459.95
Slash-Down/Black	<b>550-0692</b>	\$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

- 1995 - 2008 Harley-Davidson® touring 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

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

## NOTE

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

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

California Models:

FL Touring Fuel Injected MY 1995-2003, and 2007

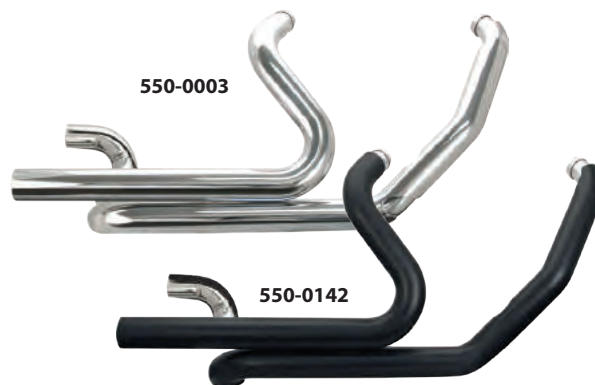
CVO FL Touring MY 2000-2003

49 State Models:

FL Touring Carbureted MY 1995-2005

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

CVO FL Touring MY 2000-2005



## S&S® POWER TUNE DUAL HEADERS

Fitment	Finish	Part No.	MSRP
1995-2008* big twins	Chrome	<b>550-0003</b>	\$524.95
	Black	<b>550-0142</b>	\$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 tuning. Plugs are included if ports are not used.

## REPLACEMENT HEAT SHIELD KITS

Fitment	Finish	Part No.	MSRP
1995-2008 big twins	Chrome	<b>550-0154</b>	\$299.95
	Black	<b>550-0156</b>	\$349.95



# SPO TOURING MUFFLERS

## FITMENT

- 1995-2016 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
- Made in the USA

## OPTIONS

- Change end caps to change your look



550-0246A

## S&S® SPO® TOURING MUFFLERS

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

\*(except 2010 Road Glide & Street Glide and all Tri Glide models)

## REPLACEMENT END CAPS

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

## NOTE

### SEE SPECIAL NOTES: ON PAGE 254 FOR DISCLAIMERS

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

# SLIP-ON PERFORMANCE MUFFLERS

**FITMENT**

- 1995-'99 Harley-Davidson® Dyna® models

**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

**S&S SLIP-ON PERFORMANCE MUFFLERS**

Application	Slash-cut	MSRP	Tapered	MSRP
1995-2016 Harley-Davidson® Dyna® Models <i>except 2008-later fat bob &amp; 2010-later wide glide</i>	<b>106-5769</b>	\$324.95	<b>106-5770</b>	\$324.95



**106-5769 Slash-cut**

**106-5770 Tapered**

**NOTE**

SEE SPECIAL NOTES ON PAGE 254 FOR DISCLAIMERS

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.

All reference to Harley-Davidson® part numbers is for identification purposes only. We are in no way 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.

# COMPRESSION RELEASES

## FITMENT

- S&S cylinder heads with compression release machining

## 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.


## S&S® COMPRESSION RELEASE KITS

Description	Part No.	MSRP
Electric	<b>90-4915</b>	\$348.00
Manual	<b>90-4925</b>	\$565.50

## TOOLS AND ACCESSORIES

Description	Part No.	MSRP
S&S Cable Knob: <i>Special billet accessory knob for manual compression release (see picture)</i>	<b>50-8700-S</b>	\$6.45
S&S Two-Piece Socket Kit: <i>Allows in-frame installation of S&amp;S compression releases and protects wiring from damage during installation.</i>	<b>53-0045</b>	\$98.90
S&S Compression Release Hole Plug	<b>90-4916</b>	\$10.33

## REPLACEMENT PARTS

Description	Part No.	MSRP
Silicone Solenoid Caps	<b>55-1009</b>	\$3.83
Wiring Harness 	<b>55-1010</b>	\$111.15
Electric Compression Release Assembly	<b>90-4914</b>	\$145.07



## NOTES

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

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


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

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

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

# HIGH OUTPUT COILS

## S&S® HIGH OUTPUT COILS

S&S High Output 3.0Ω Single Fire Coil	<b>55-1571</b>	MSRP \$153.42
<i>The perfect complement for S&amp;S IST ignition systems. This single fire coil is actually two separate coils in a single package. Coil impedance is 3Ω per coil.</i>		
S&S High Output 0.5Ω Single Fire Coil 	<b>55-1576</b>	\$132.13
<i>High output 0.5Ω single fire coil for S&amp;S IST ignition.</i>		



55-1571



55-1576

# HI-4N PERFORMANCE IGNITION

## FITMENT

- 1984-1999 big twins

## FEATURES AND BENEFITS

- One piece machined aluminum housing reduces vibration and improves heat dissipation and reliability
- Improved kick start algorithm designed to start as easily as points
- BCD switches with solid detent and legible marking allow easy and repeatable adjustments of mode, advance rate, and rev limit
- Single-fire and dual-fire function built into a single module
- Flexible wiring harness makes installation easier
- Initial timing marks allow precise adjustment and reinstallation
- Sensor covers integrated into housing to provide protection during installation
- Three year warranty

### S&S® HI-4N PERFORMANCE IGNITION

Fitment	Part No.	MSRP
Ignition only	<b>550-0501</b>	\$317.95
Kit Includes S&S® HI-4N Ignition, Single-Fire Coil, and 8.8mm double silicone, premium quality spark plug wires	<b>550-0502</b>	\$438.65

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.



550-0502

# SUPER STOCK™ IGNITIONS

## FITMENT

- V-Series engines
- V80, V92, V96, V100, V107, V111, V113, V117, V124, V145

## FEATURES & BENEFITS

- New updated modules can be set to kick-start or electric-start mode by an S&S dealer using the Super Stock diagnostic cable and software
- Electric-start mode allows the pre-ignition cranking to be set anywhere from 1 to 4 engine revolutions (only available with current modules – earlier modules cannot be updated)

- Pre-programmed ignitions are custom tailored for a specific S&S engine – no need for adjustments
- Single fire operation – requires a single fire coil for single spark plug applications
- Dual plugged applications require a pair of two tower coils or a single four tower coil
- Minimum 3.0Ω primary resistance
- Overload and short circuit protected
- VOES switches to less aggressive curve under load or hard acceleration
- 6300 rpm rev-limiter
- 24-hour break-in rev-limiter – prevents damage during break-in
- Data logging diagnostic capabilities



### S&S® SUPER STOCK® IGNITION MODULE AND KITS

Engine	Kit	MSRP	Module	MSRP
V80	<b>550-0140</b>	\$262.32	<b>550-0139</b>	\$193.37
V96	<b>55-1354</b>	\$262.32	<b>55-1344</b>	\$193.37
V100, V107, V113	<b>55-1355</b>	\$262.32	<b>55-1345</b>	\$193.37
V111, V117, V124	<b>55-1356</b>	\$262.32	<b>55-1346</b>	\$193.37

NOTE – Only modules and kits with the above part numbers have the updated features.

### S&S® SUPER STOCK® IGNITION KIT REPLACEMENT PARTS

Description	Part No.	MSRP
Pick-up Cup and Mounting Screw	<b>55-1247</b>	\$14.05
Connector Kit	<b>55-1249</b>	\$8.48
VOES Switch with Hardware	<b>55-1248</b>	\$64.11
VOES Hose, 9"	<b>19-0395</b>	\$2.40
VOES Manifold Fitting	<b>16-0136-S</b>	\$2.99
VOES Hose Tee	<b>50-8124-S</b>	\$2.48
<b>Optional Parts</b>		
S&S Single Fire Coil (3.0Ω)	<b>55-1571</b>	\$153.42
Super Stock Diagnostic Cable & Software	<b>55-1271</b>	\$124.48

## NOTES

S&S Super Stock ignition systems are available in complete ignition kits and as replacement modules. S&S single fire ignition coils are available separately.

Keep in mind that the curves are preset for a specific S&S engine, and that modules intended for one engine may not yield optimum results when used on another configuration.

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.

# INNER PRIMARY BEARING RACE

## FITMENT

- All 1991-'06 big twins (except '06 Dyna®)

## FEATURES AND BENEFITS

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



## S&S® INNER PRIMARY BEARING RACE

Fitment	Part No.	MSRP
All 1991-'06 big twins (except '06 Dyna®)	<b>56-5089</b>	\$58.29

**ANY JOB IS EASY WITH THE RIGHT TOOLS**  
**S&S INNER BEARING RACE INSTALLER, SEE PAGE 494**

# HIGH PERFORMANCE CLUTCH

## FITMENT

- Available for 1991-'06 big twin models (except 2006 Dyna®)
- 1994-'99 models require an early style starter pinion gear

## FEATURES AND BENEFITS

- Updated clutch to simplify installation — no need for retention epoxy
- Superior to competitively priced high performance clutches
- Fits in stock primary with minor modification
- With supplied springs, lever effort is slightly less than a stock Harley-Davidson® clutch, but handles engines up to 150 hp
- Optional high pressure clutch springs, available for competition applications, increases power handling capacity to nearly 200 hp
- Light duty springs for light clutch pull in less demanding stock street applications
- 11 friction plate, 10 steel plate design — *narrow friction rings increase contact diameter for increased torque capacity*
- Supplied with early style 66-tooth ring gear for increased strength and reduced tooth breakage
- Perfect for use with the S&S six-speed transmission

## OPTIONS

- Mechanical or hydraulic actuation
- Early style starter pinion gear required for 1994-'99 models to match 66-tooth ring gear supplied

## KIT CONTENTS

- Clutch assembly
- Special inner transmission mainshaft bearing race
- Installation hardware
- Instructions



## S&S HIGH PERFORMANCE CLUTCH

Description	Part No.	MSRP
Mechanical Actuation	36-Tooth Sprocket	<b>56-5150A</b>
		\$749.95

## OPTIONAL PARTS

High Pressure "Race" Clutch Springs	6 pack	<b>56-5106</b>	\$84.09
-------------------------------------	--------	----------------	---------

## LEVER EFFORT COMPARISON CHART

	Stock Clutch	S&S Standard Clutch	S&S Race Springs
<b>Max. HP</b>	Up to 90 HP	Up to 150 HP	Up to 200 HP
<b>Lever Pull</b>	26.0 lbs	27.4 lbs	45.0 lbs

**REPLACEMENT PARTS: SEE PAGE 298**



# GATES® HIGH STRENGTH FINAL DRIVE BELTS

S&S final drive belts by Gates are available with 14mm pitch in 11/2" and 11/8" widths. See the chart below 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	1 1/8" Wide	MSRP	1 1/2" Wide	MSRP
125	<b>106-0357</b>	\$199.71	—	—
126	—	—	<b>106-0348</b>	\$211.18
127	—	—	<b>106-0349</b>	\$211.18
128	<b>106-0358</b>	\$199.71	<b>106-0350</b>	\$211.18
130	<b>106-0359</b>	\$199.71	<b>106-0351</b>	\$211.18
132	<b>106-0360</b>	\$199.71	<b>106-0352</b>	\$211.18
133	<b>106-0361</b>	\$211.18	<b>106-0353</b>	\$215.37
135	<b>106-0362</b>	\$211.18	<b>106-0354</b>	\$217.44
136	—	—	<b>106-0355</b>	\$217.44
139	<b>106-0363</b>	\$211.18	<b>106-0356</b>	\$223.72
149	<b>106-1338</b>	\$219.78	<b>106-2695</b>	\$207.95
156	—	—	<b>106-2827</b>	\$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 V-SERIES 1984-'99 ENGINES AND HOT SET UP KIT®

4 1/8"	<b>106-0964</b>	\$116.57
4"	<b>106-1020</b>	\$129.69
3 5/8"	<b>106-0992</b>	\$123.86

### TOP END GASKET KITS V-SERIES 1984-'99

4 3/8"	<b>90-9511</b>	\$84.51
4 1/8"	<b>90-9506</b>	\$85.33
4"	<b>90-9503</b>	\$66.46
3 5/8"	<b>90-9502</b>	\$65.40

### CYLINDER HEAD GASKET KITS V-SERIES 1984-'99

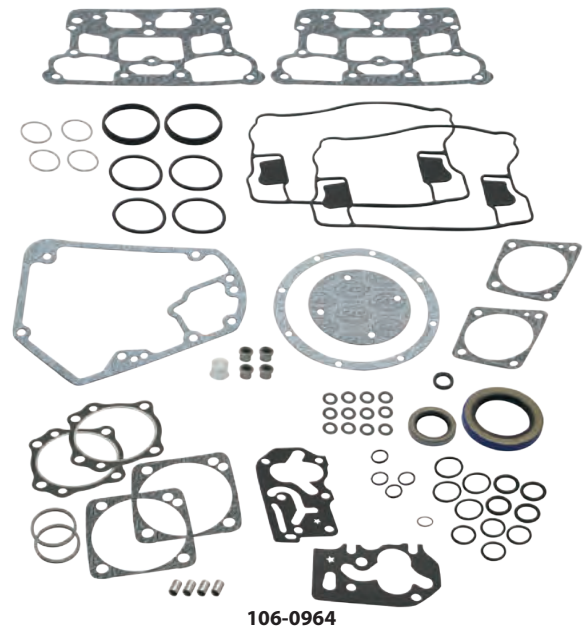
4 1/8"	.043" Micropore	<b>90-1910</b>	\$46.53
4"	.045" Micropore	<b>90-1909</b>	\$32.87
3 5/8"		<b>90-1906</b>	\$32.87
3 1/2"		<b>90-1905</b>	\$32.87
3 1/2"	.030" Layered Steel	<b>900-0532</b>	\$51.58

### HEAD GASKETS V-SERIES 1984-'99

4 1/8"	.043" Micropore	each	<b>93-1047-S</b>	\$10.96
		10 pack	<b>93-1073</b>	\$101.07
4"	.043" Micropore	each	<b>93-1040-S</b>	\$7.71
		10 pack	<b>93-1071</b>	\$71.71
3 5/8"	.045" Micropore	each	<b>93-1037-S</b>	\$7.71
		10 pack	<b>93-1052</b>	\$71.71
3 5/8"	.0625" Micropore	each	<b>93-1016-S</b>	\$14.89
		10 pack	<b>93-1053</b>	\$144.68
3 1/2"	.045" Micropore 16770-84D, 16770-84F	each	<b>93-1011-S</b>	\$7.50
		10 pack	<b>93-1024</b>	\$85.71
3 1/2"	.0625" Micropore 16770-84D, 16770-84F, 10773-85	each	<b>93-1313-S</b>	\$8.96
		10 pack	<b>93-1051</b>	\$144.26
3 1/2"	.030" Layered Steel	each	<b>900-0530</b>	\$22.51
		2 pack	<b>900-0531</b>	\$42.95

### BASE GASKETS AND O-RINGS V-SERIES 1984-'99

4 3/8"	.018" Micropore	2 pack	<b>93-1082</b>	\$13.11
4 1/8"	.018" Micropore	each	<b>93-1048-S</b>	\$5.51
		10 pack	<b>93-1074</b>	\$50.30
4"	.018" Micropore	each	<b>93-1031-S</b>	\$4.52
		10 pack	<b>93-1067</b>	\$40.87
3 5/8"	.018" Micropore	each	<b>93-1033-S</b>	\$3.93
		10 pack	<b>93-1064</b>	\$37.07
3 1/2"	.018" Micropore	each	<b>93-1035-S</b>	\$5.71



106-0964



93-1047-S



93-1048-S



106-5029



900-0338

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.

## CONTINUED GASKETS

### EXHAUST GASKETS

1984-up Big Twins	each	<b>106-5029</b>	\$5.03
65324-83B, 65324-83A	10 pack	<b>93-1072</b>	\$44.43

### VALVE GUIDE SEALS

1984-'02 Big Twin and 1986-'00 Sportster Models	each	<b>900-0338</b>	\$1.46
	8 pack	<b>90-2158</b>	\$16.83

### ROCKER BOX GASKET KITS AND INDIVIDUAL GASKETS

#### S&S Billet Rocker Boxes

Gasket Kit		<b>90-4049</b>	\$64.11
O-ring, (-223), 1.625" ID x 1.875" OD, Viton		<b>50-8044</b>	\$1.28
Valve Cover Seal 26856-89, 26856-89A		<b>90-4030</b>	\$1.38
Gasket, Rocker Cover, S&S® Billet, O-ring, 1984-'99		<b>90-4048</b>	\$13.62
Gasket, Bottom, Rocker Cover, 1984-99 bt	each	<b>900-0538</b>	\$9.18
	2 pack	<b>900-0592</b>	\$18.94

#### S&S Die Cast Rocker Boxes - S&S 4 1/8" Bore Engines

Gasket Kit		<b>90-4111</b>	\$54.51
O-ring, (-223), 1.625" ID x 1.875" OD, Viton		<b>50-8044</b>	\$1.28
Gasket, Bottom, Rocker Cover, 4-1/8" 1984-up 16719-99B	each	<b>90-4071-S</b>	\$4.60
	2 pack	<b>90-4071</b>	\$9.19
	10 pack	<b>90-4099</b>	\$69.19
Gasket, Rocker Cover, S&S® Die Cast, O-ring, 1984-up		<b>90-4079</b>	\$10.49

#### S&S Die Cast Rocker Boxes - 3 1/2", 3 5/8" and 4" Bore Engines

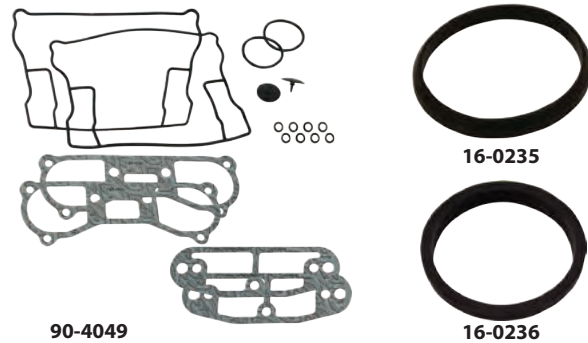
Gasket Kit		<b>90-4091</b>	\$62.77
O-ring, (-223), 1.625" ID x 1.875" OD, Viton		<b>50-8044</b>	\$1.28
Gasket, Bottom, Rocker Cover, 1984-99 bt	each	<b>900-0538</b>	\$9.18
	2 pack	<b>900-0592</b>	\$18.94
Gasket, Rocker Cover, S&S® Die Cast, O-ring, 1984-up		<b>90-4079</b>	\$10.49

#### Stock Rocker Boxes

Gasket Kit, Rubber, 1984-'91 17038-90		<b>90-4046</b>	\$64.29
Gasket Kit, Rubber, 1992-'99		<b>90-4047</b>	\$47.17

### LOWER END GASKETS AND SEALS

Gear Cover Gasket For 1970-'99		each	<b>31-2107</b>	\$3.28
25225-93A, 25225-93B, 25225-70C, 25257-80		10 pack	<b>106-0232</b>	\$32.79
Camshaft Oil Seals, 1970-'99 83162-51		each	<b>31-4022</b>	\$3.83
Tappet Cover Gasket	Set (includes Front & Rear) 18633-48	each	<b>33-5302</b>	\$4.95
		10 pack	<b>33-5313</b>	\$46.10
	Front 18634-48C	each	<b>33-5302F</b>	\$3.48
		10 pack	<b>33-5313F</b>	\$12.23
	Rear 18633-48B, 18633-48D	each	<b>33-5302R</b>	\$3.48
		10 pack	<b>33-5313R</b>	\$12.23



### PUSHROD O-RINGS

O-ring, Kit, Pushrod Cover, 1984-'99 bt, 1986-2003 xl		<b>93-4022</b>	\$6.98
Top O-ring (H-D*11101, 11157, 11293)		<b>50-8039</b>	\$1.68
Middle O-ring 11132A		<b>50-8038</b>	\$1.05
Bottom O-ring 11145A		<b>50-8037</b>	\$1.05
Oil Jet O-ring - S&S 4 1/8" Bore Engines	each	<b>50-8270</b>	\$1.05
	5 pack	<b>50-8275</b>	\$2.97

### SPROCKET SHAFT SEAL

1970-up BT 12026B	each	<b>31-4010</b>	\$5.83
	5 pack	<b>31-4110</b>	\$26.23

### S&S OIL PUMP GASKETS

#### S&S Standard Cast and Billet Oil Pumps

1936-'91 Standard		<b>31-6271</b>	\$5.25
1992-'99 Standard		<b>31-6273</b>	\$5.25

See PAGE 272 for Standard Oil Pump Master Rebuild Kits

#### S&S High Volume High Pressure (HVHP) Oil Pumps

1984-'91 Big Twin HVHP 31-6306		<b>31-6308</b>	\$7.56
1992-'99 Big Twin HVHP		<b>31-6299</b>	\$7.56

See PAGE 273 for High Volume High Pressure Oil Pump Master Rebuild Kits

#### Oil Pump Drive Shaft Seal

S&S Standard Cast and Billet Oil Pumps 26227-58		<b>31-6005</b>	\$3.47
S&S High Volume High Pressure (HVHP) Oil Pumps		<b>31-6064-S</b>	\$3.83

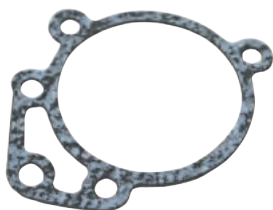


33-5302

## CONTINUED GASKETS



106-6022



106-1724

### FUEL SYSTEM GASKETS

#### Manifold Seals

S&S Manifold O-Ring	each	16-0235	\$5.03
	10 pack	16-0243	\$45.07
Stock Manifold O-ring 26995-86B, 26995-86A, 26992-99	each	16-0236	\$4.72
	10 pack	16-0244	\$40.87
Cap, Rubber, Manifold, Fitting		50-8372	\$1.33

### CLASSIC TEARDROP AIR CLEANER

Back Plate Gasket	each	106-1724	\$1.57
	10 pack	106-2328	\$13.87
Vent Seal Washers, Silicone Coated Steel	each	50-7054	\$1.12
	10 pack	50-7059	\$11.18

### STEALTH AIR CLEANER

Back Plate gasket			
Stock CV Carb & EFI Throttle Body, 1991-up xl/bt 29062-95B		106-6022	\$1.46
Super E/G	each	106-1724	\$1.57
	10 pack	106-2328	\$13.87
Muscle Air Cleaner (includes lanyards)		170-0137	\$18.94
Vent Seal Washers, Nitrile Rubber Coated, .520" x .880" x .024"	each	50-7055	\$1.12
	10 pack	50-7057	\$11.18

### TUNED INDUCTION

Back Plate gasket			
Gasket, Backplate - E/G/SBEFI	each	106-1724	\$1.57
	10 pack	106-2328	\$13.87
Gasket, S&S SBEFI 58mm		106-4662	\$3.10
Gasket, Stock Carb/Throttle Body 29062-95B		106-6022	\$1.46
Adaptor Plate Gasket		17-1022	\$1.60
Adaptor Plate Bracket O-ring	(each)	50-0446	\$2.36

### SINGLE BORE EFI THROTTLE BODY

Back Plate gasket			
52mm	each	106-1724	\$1.57
	10 pack	106-2328	\$13.87
58mm	each	106-4662	\$3.10
O-ring, Throttle Body to Manifold		50-7967-S	\$0.47
Air Temp Sensor Gasket		16-5009-S	\$3.15
IAC O-ring		50-8149-S	\$0.74
Fuel Injector O-ring, Top		50-8264-S	\$1.89
Fuel Injector O-ring, Bottom		50-8265-S	\$1.75
Fuel Rail Inlet O-ring 27237-95	each	50-8137-S	\$1.05

### TRANSMISSION GASKETS

O-ring, (-114), .625" ID x .812" OD, Vitron 11270	50-8033	\$1.46
O-ring, Quad Seal, (-031), 1.734" X 1.875", Nitrile 11165	50-8045	\$6.19
Seal, Transmission Output Shaft, 2.255" x 3.388" x .250120678	56-3033	\$11.02

### PRIMARY GASKETS

Gasket, Primary Cover, 1990-'99 Softail® and Dyna®	56-4049	\$23.31
--	---------	---------













170-0137

170-0137

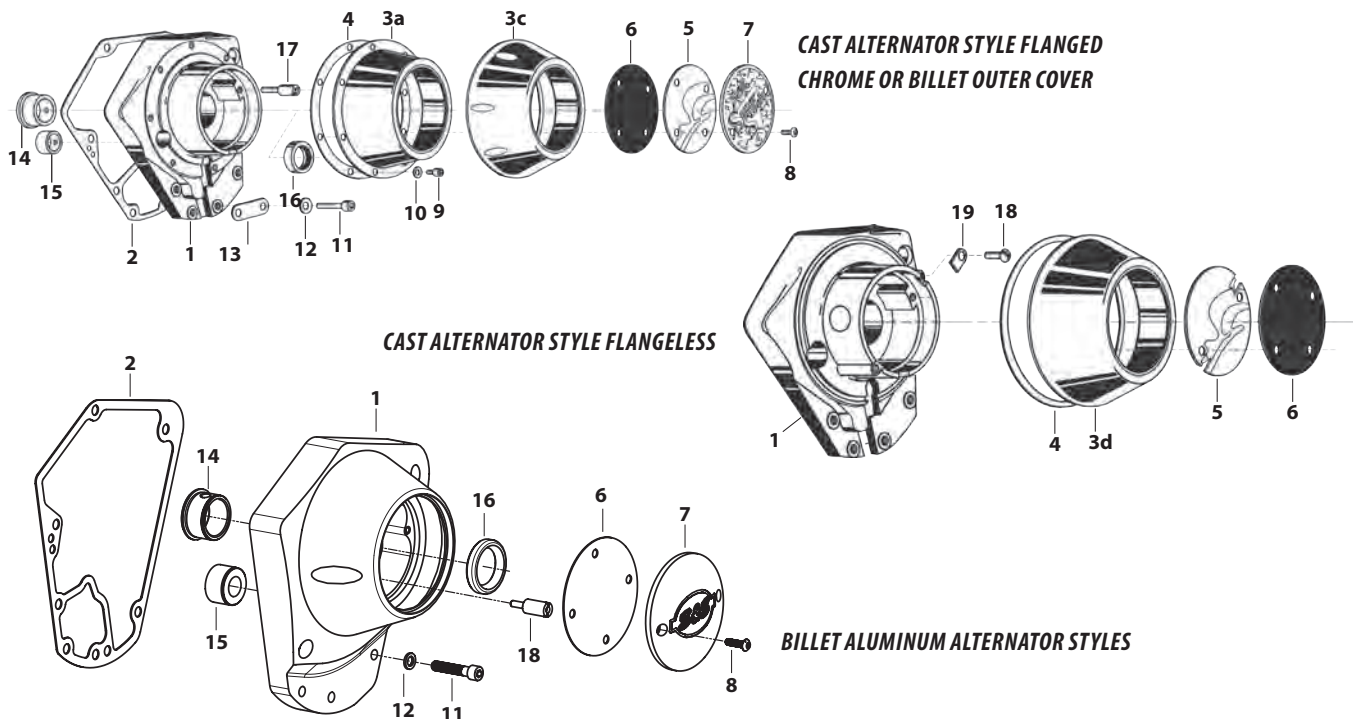
All reference to H-D® part numbers is for identification purposes only. We in no way are implying that any of S&S® Cycle's products are original equipment parts or that they are equivalent to the corresponding H-D part number shown.

# GEARCOVER KIT REPLACEMENT PARTS

1. Gearcover assembly ..... N/A
2. Gasket, gearcover  
25225-93A, 25225-93B, 25225-70C, 25257-80  
each .....  **31-2107** \$3.28  
10 pack .....  **106-0232** \$32.79
3. Outer cover for cast gearcovers - 1984-'99 BT
  - a. Flanged type - steel, chrome ..... N/A
  - b. Flanged type - steel, black ..... N/A
  - c. Flanged type - billet ..... N/A
  - d. Flangeless type - chrome .....  **31-0238** \$41.92
  - e. Flangeless type - black ..... N/A
4. Gasket, outer cover - 1984-'99 BT
  - Flanged type (each) ..... **31-0218** \$1.24
  - 5 pack ..... **31-0256** \$12.86
  - Flangeless type (each) ..... **31-0237** \$2.99
  - 5 pack ..... **31-0261** \$15.30
5. Ignition cover, inner - 1984-'99 BT
  - Flanged type 32504-80 .....  **31-0215** \$2.75
  - Flangeless type .....  **31-0235** \$2.89
6. Gasket, ignition cover - 1984-'99 BT 32591-80, 32591-70  
each .....  **31-0225** \$1.05
7. Ignition cover, outer - 1984-'99 BT
  - Die-cast (H-D® #32524-83) ..... N/A
  - Billet, Chrome with S&S Logo .....    **31-0332** \$58.69
8. Screw, RSH - 8-32 x 1/2" (replaces stock rivets)
  - Stainless Steel (each) ..... **50-0048** \$1.03
  - Chrome (each) ..... **50-0266-S** \$2.52
9. Screw, SH
  - 10-24 x 1/4" for steel cover (each) ..... N/A -
  - 10-24 x 3/8" - chrome for billet cover 4091 (each) ..... **50-0023** \$1.69

10. Washer, flat .192" x 5/16" x .035"  
each ..... **50-7009** \$1.03
11. Screw, SH 1/4"-20 x 1 1/4" - 4740A, 3482A  
Zinc (each) ..... **50-0008** \$1.06  
Chrome (each) 4740A ..... **50-0257-S** \$1.94
12. Washer, flat  
1/4" x .474" x .050" (each) ..... **50-7020** \$1.03  
1/4" Flat washer, chrome, billet covers  
each ..... **50-7017** \$1.03  
12 pack ..... **50-7013** \$6.16
13. Wire harness clip 38711-93 ..... **31-2029** \$0.83
14. Cam bushing, gearcover  
1984-'99 BT 25581-70 ..... **31-4019** \$10.45
15. Pinion shaft bushing, gearcover  
1984-'99 BT 25582-93, 25582-73 ..... **31-4031** \$11.02
16. Gearcover oil seal 1984-'99 BT  
(each) .....  **31-4022** \$3.83
17. Screw, timing mechanism 32606-82  
each ..... **31-0224** \$3.41  
2 pack ..... **31-0224P** \$6.28
18. Screw, standard panhead 8-32 x 3/8"  
each ..... **50-0004** \$1.08
19. Clip, outer cover (each) ..... **31-0233** \$3.41

N/A = No longer available

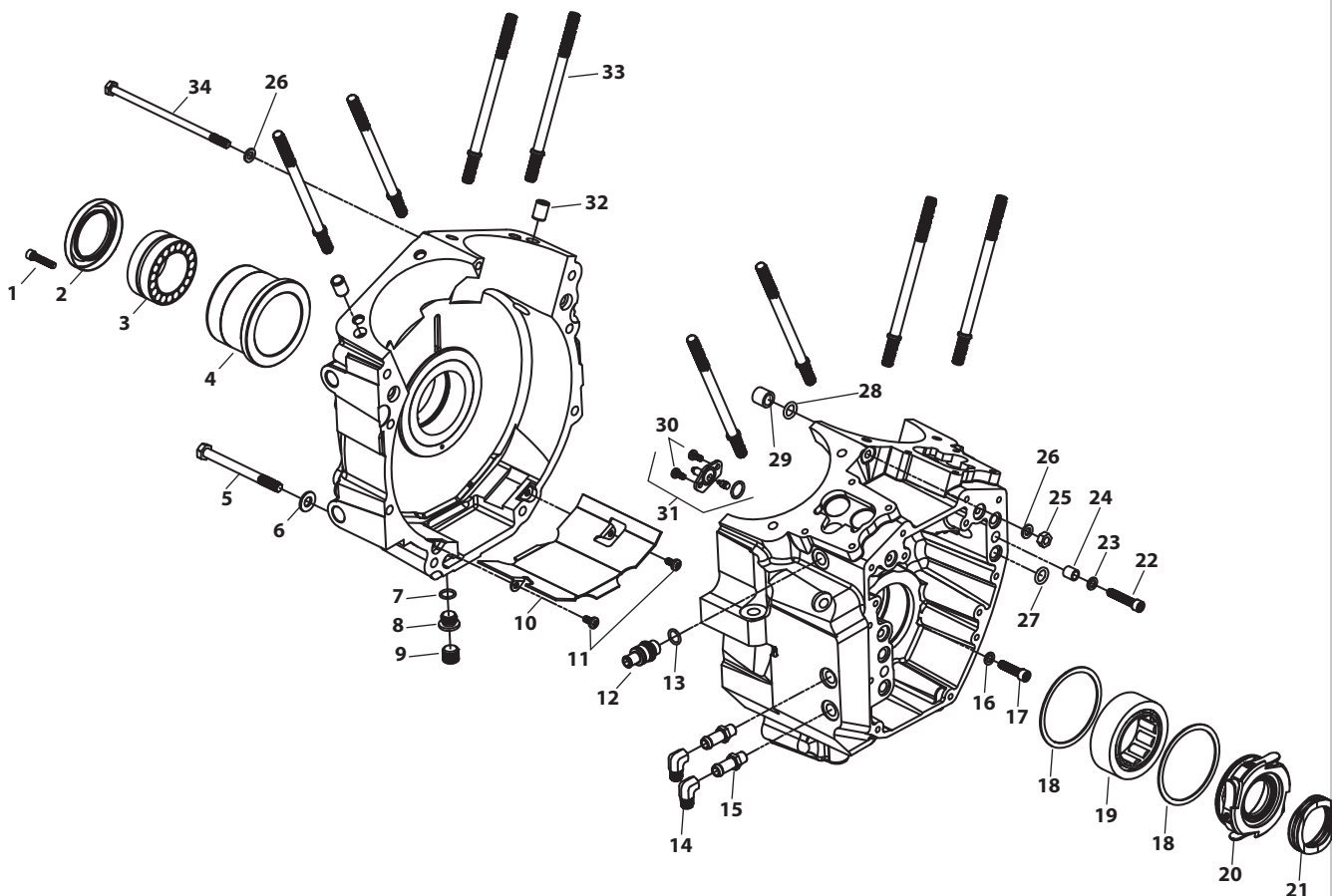


All reference to H-D® part numbers is for identification purposes only. We in no way are implying that any of S&amp;S® Cycle's products are original equipment parts or that they are equivalent to the corresponding H-D part number shown.



# 2 CAM V-SERIES CRANKCASE REPLACEMENT PARTS FOR 1984-'99 BIG TWIN ENGINES

- |  |                  |          |
|--|------------------|----------|
| 1. Screw, SHCS, 10-24 x 1", Alloy Steel 2720.....  | <b>50-0044</b>   | \$1.08   |
| 2. Seal, Left, Main Bearing, 1.750" x 2.507" x .3130", 1970-up bt<br>12026B.....   | <b>31-4010</b>   | \$5.83   |
| 3. Bearing, Assembly, Left, Main 9028.....   | <b>31-4013</b>   | \$68.49  |
| 4. Insert, Left, Main Bearing.....   | <b>N/A</b>       |          |
| 5. Screw, HHC, Gr8, 5/16-18 x 3 1/2", Zinc, Steel 3427.....  | <b>50-0117</b>   | \$1.09   |
| 6. Washer, Flat, .344" x .688" x .065", Zinc, Steel<br>6320, 70907-07, 6016, 6702.....   | <b>50-7034</b>   | \$0.26   |
| 7. O-ring, (-013), .437" ID x .565" OD, Viton® 11105, 11273.....   | <b>50-8008</b>   | \$1.05   |
| 8. Plug, Drain, w/ O-ring, Magnetic, 1/2-20, Zinc, Steel.....  | <b>50-8335</b>   | \$11.18  |
| 9. Plug, Pipe, 3/4 Taper, 1/4-18 NPTF x .460", Zinc, Steel<br>765.....   | <b>50-8330</b>   | \$1.09   |
| 10. Plate, Baffle, Crankcase, 1999-up bt.....  | <b>31-0119-S</b> | \$7.29   |
| 11. Screw, PH, 10-24 x 3/8", Zinc, Steel, ASTM-A307.....   | <b>50-0050</b>   | \$1.08   |
| 12. Fitting, Vent, 3/8", Plated, 1999-2006 bt.....   | <b>50-0454</b>   | \$12.23  |
| 13. O-ring, (-013), .437" ID x .565" OD, Viton® 11105, 11273.....  | <b>50-8008</b>   | \$1.05   |
| 14. Fitting, Pipe, 90°, Male/Female, 1/8-27 NPTF x .500", Zinc Plated, Steel<br>26338-68, 26561-84A, 26561-81A, 26338-68A..... | <b>106-2682</b>  | \$5.09   |
| 15. Fitting, Hose, Straight, 1/8-27 NPTF x .500", Zinc, Steel.....   | <b>50-8115</b>   | \$2.46   |
| 16. Washer, Flat, .260" x .425" x .060", Chrome, Steel.....  | <b>50-7017</b>   | \$1.03   |
| 17. Screw, SHCS, 1/4-20 x 1", Zinc, ASTM A574-92A 852.....   | <b>50-0084</b>   | \$1.05   |
| 18. Retaining Ring, Internal, 2.731" x .031" x .158", Steel, SAE 1070-1090<br>35114-02.....                                    | <b>50-8160-S</b> | \$1.15   |
| 19. Bearing, Right, Main, S&S Crankcases 1999-'06 bt, 2000-up Bal bt, 2003-up NB bt<br>24604-00D.....                          | <b>31-4085</b>   | \$57.16  |
| 20. Valve, Assembly, Breather Reed, 2003-2010 bt.....  | <b>310-0742</b>  | \$110.95 |
| 21. Wave Spring, 2"OD X 1.6"ID X .375".....  | <b>50-8404</b>   | \$7.46   |
| 22. Screw, SHCS, 1/4-20 x 1 1/4", Zinc 4740A, 3482A.....   | <b>50-0008</b>   | \$1.06   |
| 23. Washer, Flat, .260" x .425" x .060", Chrome, Steel.....  | <b>50-7017</b>   | \$1.03   |
| 24. Pin, Dowel, .275" x .397", Steel (4 pack).....   | <b>500-0219</b>  | \$11.15  |
| 25. Nut, HH, 1/4-28 UNC-2B x .226", Zinc, Steel 7683.....  | <b>50-5011</b>   | \$0.26   |
| 26. Washer, .261" x .474" x .050", Annealed, Stainless Steel.....  | <b>50-7020</b>   | \$1.03   |
| 27. O-ring, (-110), .375" ID x .562" OD, Viton® 11301 (each).....  | <b>50-8066-S</b> | \$1.06   |
| 28. O-ring, (-015), .562" ID x .068" OD, Black, Viton® 26432-76A (each).....   | <b>50-8034-S</b> | \$1.15   |
| 29. Pin, Dowel, .557" x .500", Black, Steel 16574-99A, 16573-83, 16573-83A (2 pack).....                                       | <b>50-8034</b>   | \$2.40   |
| 30. Screw, Torx Panhead, 8-32 x 3/8", Zinc, Steel 68042-99.....  | <b>50-8023</b>   | \$1.68   |
| 31. Jet, Kit, Piston Cooling, 4 1/8" 1984-'99 bt, 1999-up bt, (2 pack)<br>22307-99.....  | <b>50-0054-S</b> | \$0.36   |
| 32. Pin, Dowel, .437" x .610", Steel 16595-99A.....  | <b>31-2026</b>   | \$54.92  |
| 33. Stud, Cylinder Base, 3/8-16 UNC x 6.070", Black, Steel.....  | <b>50-8177</b>   | \$2.26   |
| 34. Screw, HHC, Gr8, 1/4-28 x 5 1/2", Zinc, Steel.....   | <b>31-2325-S</b> | \$5.76   |
|  | <b>50-0090</b>   | \$1.98   |



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.

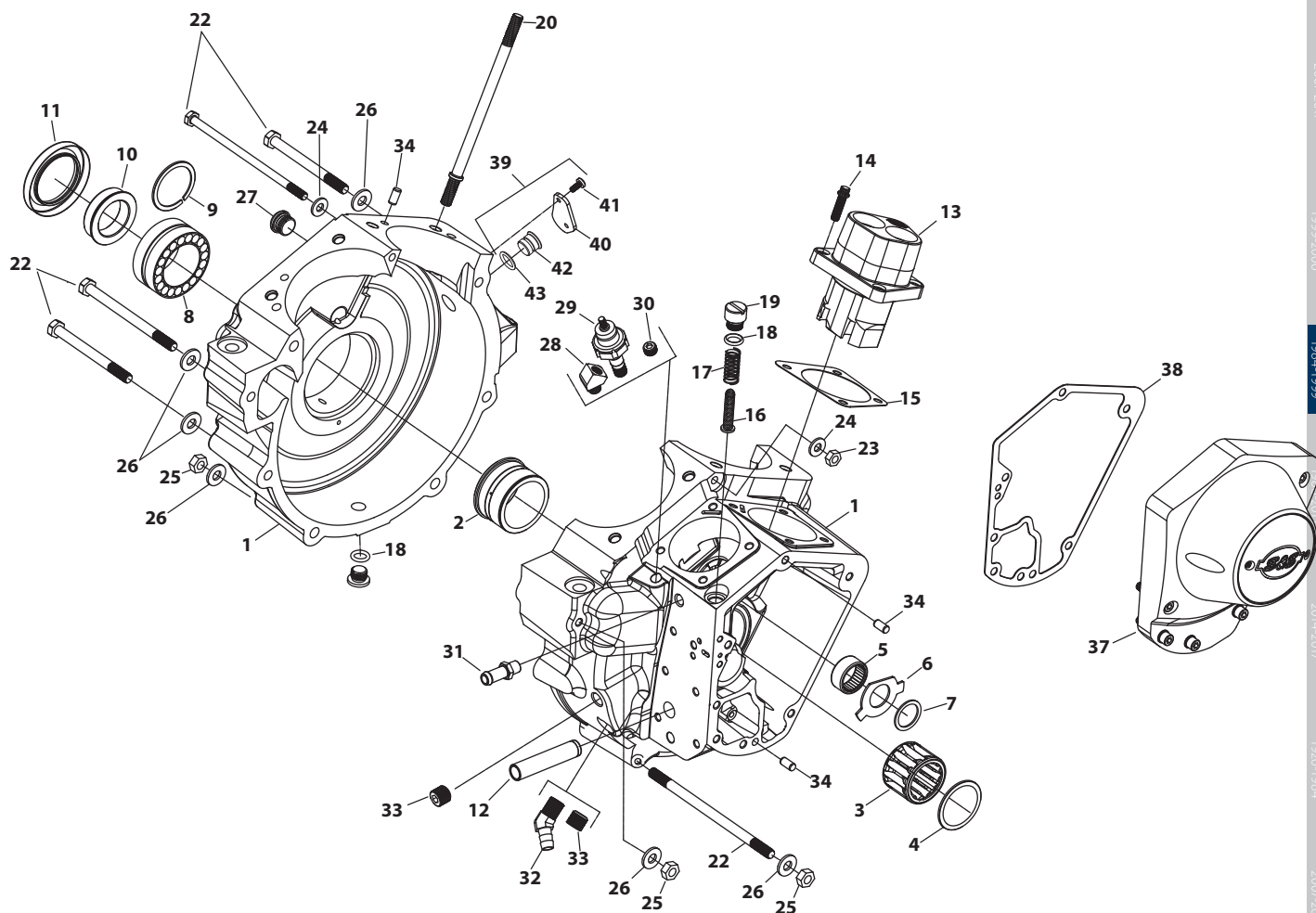
# SUPER STOCK® CRANKCASE REPLACEMENT PARTS

## FOR BIG TWIN ENGINES OF LESS THAN 4" CYLINDER BORE

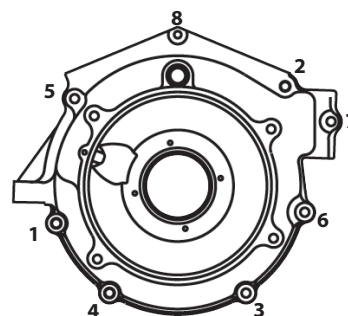
1. Crankcase assembly, half . . . . .	N/A	
2. Race, right main bearing, All S&S BT		
Standard (H-D® #24599-58A, 24599-58B, 24599-93) . . . . .	<b>31-4004</b>	\$67.10
+ .005" O.S. (H-D® #24601-58B) . . . . .	<b>31-4007</b>	\$63.95
+ .030" O.S. . . . .	<b>31-4030</b>	\$61.95
3. Right main bearing assembly BT		
White (H-D® #24626-87A) . . . . .	<b>31-4005</b>	\$33.51
Green (H-D® #24628-87A) . . . . .	<b>31-4016</b>	\$35.61
Red (H-D® #24641-87A) . . . . .	<b>31-4017</b>	\$35.61
Blue (H-D® #24643-87A) . . . . .	<b>31-401</b>	\$33.95
4. Retaining ring, main bearing BT		
(H-D® #11177A) (each) . . . . .	<b>50-8057</b>	\$1.22
5 pack . . . . .	<b>50-1004</b>	\$8.74
5. Cam needle bearing assembly BT		
(H-D® #9058) . . . . .	<b>31-4009</b>	\$10.20
6. Washer, cam lock - BT		
(H-D® #25550-57A) (each) . . . . .	<b>33-5201</b>	\$4.88
5 pack . . . . .	<b>33-5213</b>	\$28.27
7. Cam thrust washer - BT		
.050" (H-D® #25550-36) (each) . . . . .	<b>33-5200</b>	\$6.46
.055" (H-D® #25551-36) (each) . . . . .	<b>33-5202</b>	\$6.46
.060" (H-D® #25552-36) (each) . . . . .	<b>33-5203</b>	\$6.46
.065" (H-D® #25553-36) (each) . . . . .	<b>33-5204</b>	\$6.46
.070" (H-D® #25554-36) (each) . . . . .	<b>33-5205</b>	\$6.46
.075" (each) . . . . .	<b>33-5206</b>	\$6.46
.080" (each) . . . . .	<b>33-5207</b>	\$13.38
.090" (each) . . . . .	<b>33-5209</b>	\$13.38
8. Left Timken® main bearing assembly 1984-'99		
S&S BT cases (H-D® #9028) . . . . .	<b>31-4013</b>	\$68.49
9. Timken Main Bearing Spacers, 1984-'99 BT		
.0995" - .1005" (H-D® #9124) . . . . .	<b>31-4071</b>	\$6.98
.1015" - .1025" (H-D® #9125) . . . . .	<b>31-4072</b>	\$6.98
.1035" - .1045" (H-D® #9126) . . . . .	<b>31-4073</b>	\$8.74
.1055" - .1065" (H-D® #9127) . . . . .	<b>31-4074</b>	\$6.98
.1075" - .1085" (H-D® #9128) . . . . .	<b>31-4075</b>	\$6.98
.1195" - .1205" (H-D® #9134) . . . . .	<b>31-4076</b>	\$6.98
10. Spacer, drive sprocket, 1984-'99 S&S BT cases		
Standard (H-D® #24002-70) . . . . .	<b>31-4011</b>	\$29.32
45A Charging System, 1970-'99 bt, (H-D® #24008-97) . . . . .	<b>31-4033</b>	\$15.50
11. Seal, sprocket shaft oil 1936-'99 S&S BT cases		
(H-D® #12026B) (each) . . . . .	<b>31-4010</b>	\$5.83
5 pack . . . . .	<b>31-4110</b>	\$26.23
12. Bushing, oil pump shaft - (H-D® #24641-36) . . . . .	<b>31-4008</b>	\$12.23
13. Tappet guide - Shown for reference only (not included)		
14. Screw, 12 pt. DHH 1/4"-20 x 7/8" (H-D® #3770)		
Each . . . . .	<b>50-0068</b>	\$1.05
5-pack . . . . .	<b>50-0068P</b>	\$3.12
15. Gasket, tappet guide - 1948-'99 BT		
Front (H-D® #18634-48C) (each) . . . . .	<b>33-5302F</b>	\$3.48
10 pack front . . . . .	<b>33-5313F</b>	\$12.23
Rear (H-D® #18633-48D) (each) . . . . .	<b>33-5302R</b>	\$3.48
10 pack rear . . . . .	<b>33-5313R</b>	\$12.23
Set (each front & rear) . . . . .	<b>33-5302</b>	\$4.95
10 pack set . . . . .	<b>33-5313</b>	\$46.10
16. Crankcase oil screen - 1948-'99 BT (H-D® #24981-70)		
(each) . . . . .	<b>31-2010</b>	\$4.82
5 pack . . . . .	<b>31-7008</b>	\$21.99
17. Crankcase oil screen spring - 1948-'99 BT		
(H-D® #24982-70) (each) . . . . .	<b>31-2011-S</b>	\$1.25
18. O-ring, drain plug and cover screw		
(H-D® #11105, 11273) (each) . . . . .	<b>50-8008</b>	\$1.05
10 pack . . . . .	<b>50-8078</b>	\$8.41
19. Cover screw - 1948-'99 S&S BT (H-D® #26263-80, 26362-36)		
each . . . . .	<b>31-6021</b>	\$4.62
5 pack . . . . .	<b>31-7005</b>	\$20.94
20. Cylinder stud		
1984-up BT (H-D® #16837-85C) (each) . . . . .	<b>31-2321-S</b>	\$4.62
8 pack . . . . .	<b>31-2321</b>	\$35.85
21. Crankcase hardware Kits (N/S - include studs, screws, nut and washers)		
Zinc Plated . . . . .	<b>106-4908</b>	\$39.34
Chrome . . . . .	<b>106-4909</b>	\$56.83
22. Crankcase studs and screws		
(Position 1, 2, 3, & 4) Alignment Stud,		
5/16" - 24 x 53/4" (H-D® #3506, 24806-36) . . . . .	<b>31-2003</b>	\$8.74
(Position 5 & 6) Screw, HHCS, 5/16" - 18 x 3 1/2" . . . . .	<b>50-0117</b>	\$1.09
(Position 7) Screw HHCS, 5/16" - 24 x 5" . . . . .		
Zinc (H-D® #3430) . . . . .	<b>50-0119</b>	\$1.63
Chrome (each) . . . . .	<b>50-0253-S</b>	\$4.60
(Position 8) Screw HHCS, 1/4" - 28 x 5 1/2" (each) . . . . .		
Zinc . . . . .	<b>50-0090</b>	\$1.98
Chrome (each) . . . . .	<b>50-0252-S</b>	\$4.60
23. Nut, Hex - 1/4" - 28 (H-D® #7683) . . . . .	<b>50-5011</b>	\$0.26
24. Washer, flat - 1/4" x 5/8" x 1/16" (each)		
Zinc (H-D® #6194, 6245, 6703, 6736, 6228W) . . . . .	<b>50-7021</b>	\$1.08
Chrome . . . . .	<b>50-7104-S</b>	\$1.37
25. Nut, hex - 5/16" - 24 (each)		
Zinc (H-D® #7833, 7883) . . . . .	<b>50-5023</b>	\$0.26
Chrome . . . . .	<b>50-5029-S</b>	\$3.93
26. Washer, flat - 5/16" x 1 1/16" x 1/16"		
(H-D® #6016, 6320, 70907-07) . . . . .	<b>50-7034</b>	\$0.26
27. Plug, timing hole (H-D® #720) . . . . .	<b>31-2005</b>	\$4.33
28. Fitting, 45° 1/8" x 1/8" pipe male/female . . . . .	<b>50-8112</b>	\$3.09
29. Oil pressure switch (H-D® #26561-84)		
(Includes: switch, nut, lock washer) . . . . .	<b>31-2016</b>	\$15.26
30. Plug, SH pipe - 1/8" - 27 (H-D® #45830-48) (each) . . . . .	<b>50-8331</b>	\$1.00
10 pack . . . . .	<b>50-1015</b>	\$5.83
31. Fitting, hose - 1/8" - 27 pipe male . . . . .	<b>50-8115</b>	\$2.46
32. Fitting, 45° hose - 1/4" pipe male x 3/8" male hose		
(H-D® #16302-81) . . . . .	<b>50-8113</b>	\$5.83
33. Plug, SH pipe, 1/4" - 18, 1965-'69 S&S BT (H-D® #765)		
(each) . . . . .	<b>50-8330</b>	\$1.09
34. Dowel pin, .250" diameter x 1/2" (H-D® #358, 366)		
(each) . . . . .	<b>50-8022</b>	\$2.49
2 pack . . . . .	<b>50-8022-2</b>	\$4.46
5 pack . . . . .	<b>50-8105</b>	\$5.25
35. Screw, SHC - 10-24 x 1" (Stator) (N/S) (H-D® #2720)		
each . . . . .	<b>50-0044</b>	\$1.08
36. Screw, SHS - 10-24 x 5/16" - (Stator plug clamp) (N/S)		
each . . . . .	<b>50-0045</b>	\$1.02
37. Gearcover - Shown for reference only (not included)		
38. Gearcover gasket 1970-up S&S BT (H-D® #25225-70A,		
25225-93B, 25225-93, 25257-80, 25225-70C) . . . . .	<b>31-2031</b>	\$2.35
39. CPS hole plug kit . . . . .	<b>106-2997</b>	\$19.41
40. Cover, CPS hole . . . . .	<b>31-2056-S</b>	\$5.83
41. Screw, Torx, 8-32 x 3/8" . . . . .	<b>50-0054-S</b>	\$0.36
42. CPS hole plug . . . . .	<b>106-1189</b>	\$9.28
43. O-ring (each) . . . . .	<b>50-8270</b>	\$1.05
5 pack . . . . .	<b>50-8275</b>	\$2.97

(N/S) = Not Shown

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



**Bolt Position Diagram**



# SPECIAL APPLICATION CRANKCASE REPLACEMENT PARTS FOR BIG TWIN ENGINES WITH 4", 4-1/8" AND 4-3/8" CYLINDER BORE

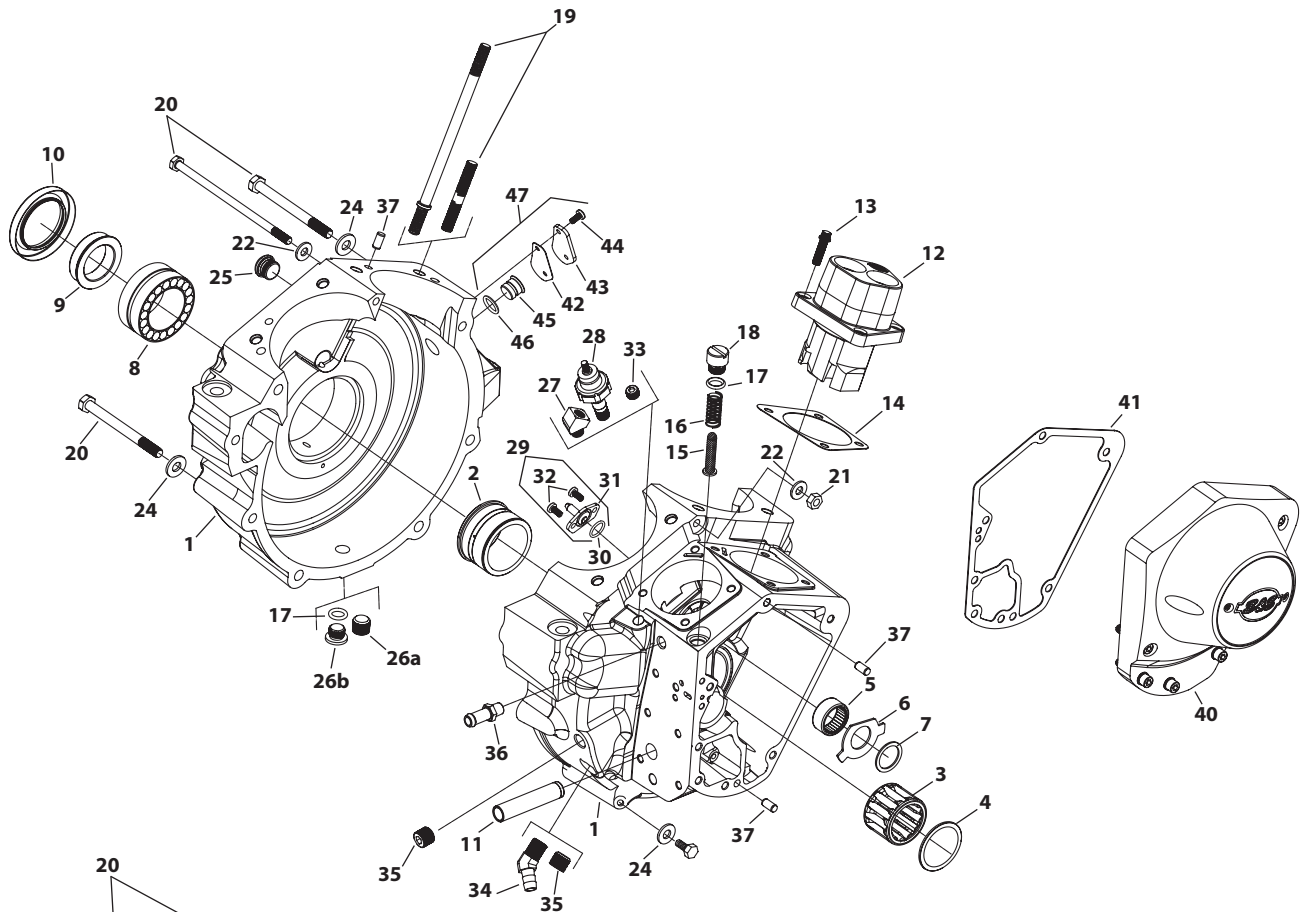
1. Crankcase assembly, half	N/A
2. Race, right main bearing, for 1936-'99 big twin Standard #24599-93, 24599-58A, 24599-58B)	
+ .005" O.S. 24601-58B)	
3. Right main bearing assembly BT	
White 24626-87A	31-4004 \$67.10
Green 24628-87A	31-4007 \$63.95
Red 24641-87A	31-4005 \$33.51
Blue 24643-87A	31-4016 \$35.61
4. Retaining ring, main bearing BT 11177A	31-4017 \$35.61
each	31-4018 \$35.61
5 pack	50-8057 \$1.22
5. Cam needle bearing assembly BT 9058	50-1004 \$8.74
6. Washer, cam lock - 1984-'99 BT (H-D #25550-57A)	
each	31-4009 \$10.20
5 pack	33-5201 \$4.88
7. Cam thrust washer - 1984-'99 BT	33-5213 \$28.27
.050" 25550-36 (each)	33-5200 \$6.46
.055" 25551-36 (each)	33-5202 \$6.46
.060" 25552-36 (each)	33-5203 \$6.46
.065" 25553-36 (each)	33-5204 \$6.46
.070" 25554-36 (each)	33-5205 \$6.46
.075" 25555-36 (each)	33-5206 \$6.46
.080" 25556-36 (each)	33-5207 \$13.38
.090" 25558-36 (each)	33-5209 \$13.38
8. Left Timken® main bearing assembly	
1984-'99 S&S BT cases 9028	31-4013 \$68.49
9. Spacer, drive sprocket	
1984-'99 S&S BT cases 24002-70	31-4011 \$29.32
10. Seal, sprocket shaft oil 1936-'99 S&S BT cases	
120268 (each)	31-4010 \$5.83
5 pack	31-4110 \$26.23
11. Bushing, oil pump shaft - All S&S BT cases	
Standard 24641-36	31-4008 \$12.23
12. Tappet guide assembly (See PAGE 229)	
13. Screw, 12 pt. DHH 1/4" - 20 x 7/8" 3770	50-0068 \$1.05
4 pack	50-0068P \$3.12
14. Gasket, tappet guide - 1984-'99 BT	
Front 18634-48C (each)	33-5302F \$3.48
10 pack front	33-5313F \$12.23
Rear 18633-48B, 18633-48D (each)	33-5302R \$3.48
10 pack rear	33-5313R \$12.23
Set (each front & rear) 18633-48	33-5302 \$4.95
10 pack set	33-5313 \$46.10
15. Crankcase oil screen - 1984-'99 BT	
24981-66, 24981-70 (each)	31-2010 \$4.82
5 pack	31-7008 \$21.99
16. Crankcase oil screen spring - 1984-'99 big twin	
24982-66, 24982-70 (each)	31-2011-S \$1.25
17. Cover screw o-ring - 1984-up S&S BT 11105, 11273	
each	50-8008 \$1.05
10 pack	50-8078 \$8.41
18. Cover screw - 1984-'99 S&S BT 26263-80, 26362-36	
each	31-6021 \$4.62
5 pack	31-7005 \$20.94
19. Cylinder stud	
1984-up BT with +.500" cases 16832-86C	31-2331-S \$5.46
each	31-2331 \$42.58
8 pack	
20. Crankcase Hardware	

Special Application Crankcases (For Engines With 4" Cylinder Bore or Greater)  
4" and 4 1/8" Bore Cases Manufactured Before 6-1-08

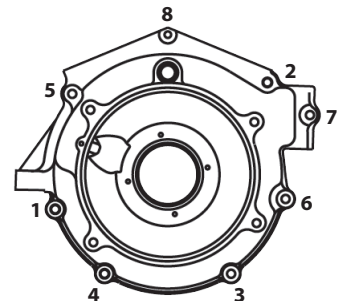
(Positions 1 - 4)	
Alignment Stud, 5/16" - 24 x 6 1/16" 24809-30	31-2034 \$10.20
(Positions 5 & 6)	
Screw, HHCS, 5/16" - 18 x 3 1/2" 3427	50-0117 \$1.09
Screw, HHCS, 5/16" - 18 x 3 1/2" chrome (each)	50-0254-S \$3.45
(Position 7)	
Screw HHCS, 5/16" - 24 x 5"	
Zinc 3430	50-0119 \$1.63
Chrome (each)	50-0253-S \$4.60
(Position 8)	
Screw HHCS, 1/4" - 28 x 5 1/2" (each)	50-0090 \$1.98
Screw HHCS, 1/4" - 28 x 5 1/2" Chrome (each)	50-0252-S \$4.60
4" and 4 1/8" Bore Cases Manufactured After 6-1-08	
(Positions 1 - 7)	
1936-'69 S&S BT cases & S&S BT SA cases	
Screw, HHCS, 5/16" - 18 x 3 1/2" zinc 3427	50-0117 \$1.09
Screw, HHCS, 5/16" - 18 x 3 1/2" chrome (each)	50-0254-S \$3.45
(Position 8)	
Screw HHCS, 1/4" - 28 x 5 1/2" zinc (each)	50-0090 \$1.98
Screw HHCS, 1/4" - 28 x 5 1/2" Chrome (each)	50-0252-S \$4.60
4 3/8" Bore Cases Manufactured Before 6-1-08	
(Positions 1 - 4) Alignment Stud	
Alignment Stud, 5/16" - 24 x 6 1/16" 24809-30	31-2034 \$10.20
(Positions 5 & 6)	
Screw, HHCS, 5/16" - 18 x 3 1/2" 3427	50-0117 \$1.09
(Position 7)	
Screw HHCS, 5/16" - 24 x 5"	
Zinc 3430	50-0119 \$1.63
Chrome (each)	50-0253-S \$4.60
(Position 8) All S&S BT cases Special Application	
Screw, HHCS, 1/4" - 28 x 6", zinc (each)	50-0020 \$6.06
4 3/8" Bore Cases Manufactured After 6-1-08	
(Positions 1 - 7) 1936-'69 S&S BT cases & S&S BT SA cases	
Screw, HHCS, 5/16" - 18 x 3 1/2", zinc 3427	50-0117 \$1.09
Screw, HHCS, 5/16" - 18 x 3 1/2", chrome (each)	50-0254-S \$3.45
(Position 8) All S&S BT cases Special Application	
Screw, HHCS, 1/4" - 28 x 6", zinc (each)	50-0020 \$6.06
21. Nut, Hex - 1/4" - 28 7683	50-5011 \$0.26
22. Washer, .261" x .474" x .050"	
Zinc (each)	50-7020 \$1.03
Chrome (each)	50-7105-S \$0.39
23. Nut, hex - 5/16" - 24	
Zinc 7833, 7883	50-5023 \$0.26
(for Special Application Cases Manufactured Before 6-1-08)	
Chrome (each)	50-5029-S \$3.93
24. Washer, flat - 5/16" x 1 1/16" x 1/16" 6320, 70907-07, 6016, 6702	50-7034 \$0.26
25. Plug, timing hole 720	31-2005 \$4.33
26. Drain plug - Manufactured before 5-1-2000	
3/8" - 18 NPT	31-2006 \$2.84
Manufactured after 5-1-2000	
1/2" - 20	50-8335 \$11.18
27. Fitting, 1/8" x 1/8" pipe male/female	50-8112 \$3.09
28. Oil pressure switch 26361-84 (Includes: 1 each switch, nut, lock washer.)	
each	31-2016 \$15.26
29. Piston Oiler Jet Kit 22307-99 includes #30 (1), #31 (1), #32 (2)	
2 pack	31-2026 \$54.92
30. O-ring, (-014), .500" ID x .625" OD	

CONTINUED ON NEXT PAGE

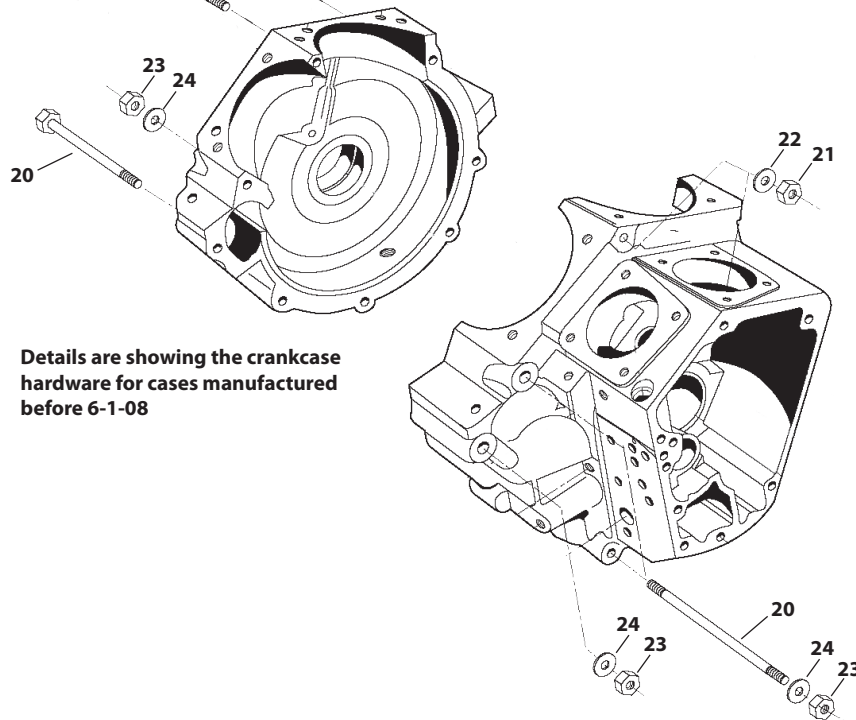




## BOLT POSITION DIAGRAM






Details are showing the crankcase hardware for cases manufactured before 6-1-08





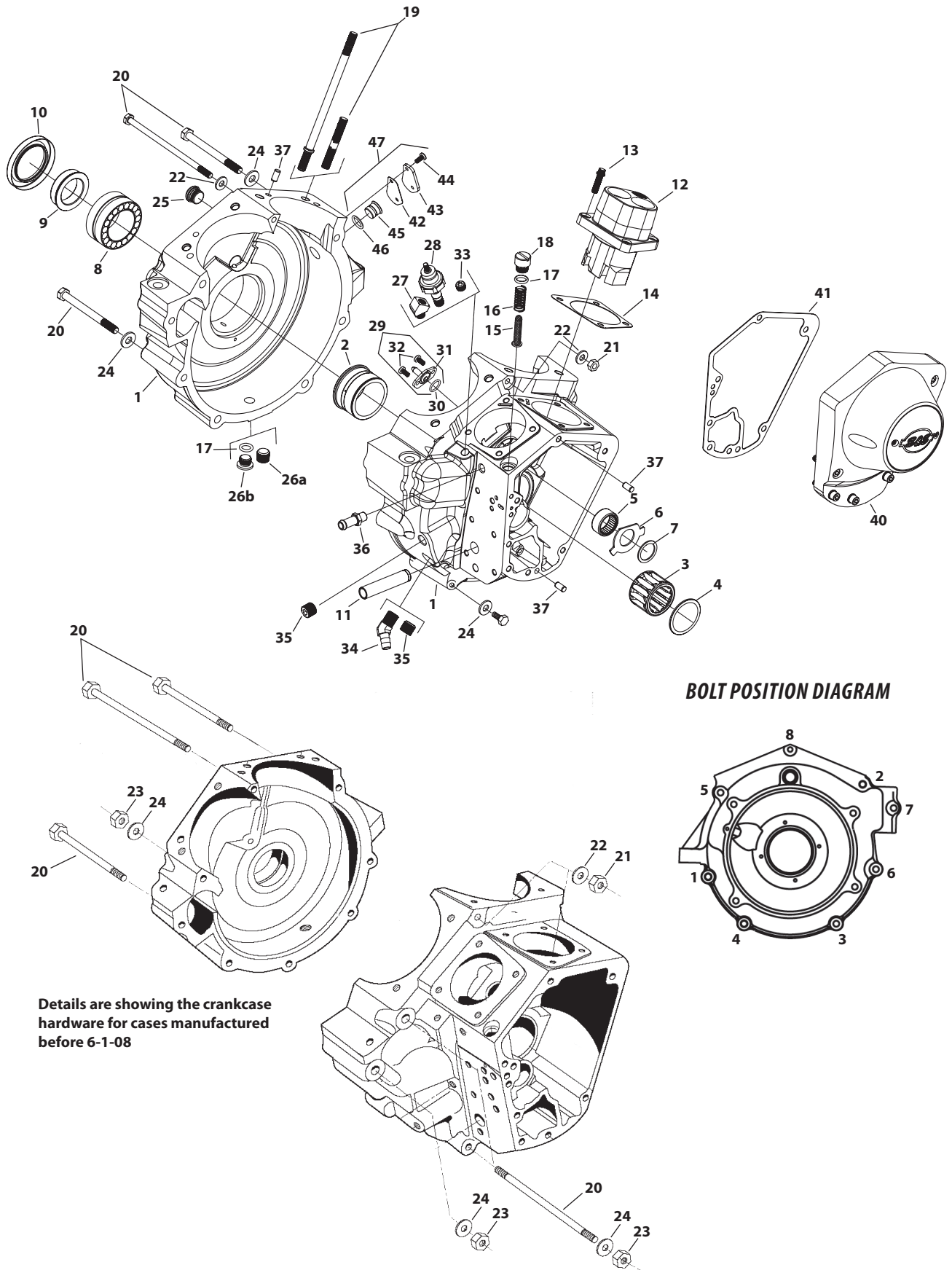
## CONTINUED

## SPECIAL APPLICATION CRANKCASE REPLACEMENT PARTS FOR BIG TWIN ENGINES WITH 4", 4-1/8" AND 4-3/8" CYLINDER BORE

each .....	<b>50-8270</b>	\$1.05
10 pack .....	<b>50-8130</b>	\$4.78
<b>31.</b> Jet, Assembly, Piston Cooling 22371-99, 22307-99 (each) .....	<b>31-2025B</b>	\$28.27
<b>32.</b> Screw, Torx Panhead, 8-32 x 3/8", Zinc, Steel 68042-99		
each .....	<b>50-0054-S</b>	\$0.36
<b>33.</b> Plug, SH pipe - 1/8"-27 45830-48 (each) .....	<b>50-8331</b>	\$1.00
10 pack .....	<b>50-1015</b>	\$5.83
<b>34.</b> Fitting, 45° hose - 1/4" pipe male x 3/8" male hose		
.....	 <b>50-8113</b>	\$5.83
<b>35.</b> Plug, SH pipe, 1/4"-18, 1965-'69 S&S BT 765		
.....	 <b>50-8330</b>	\$1.09
<b>36.</b> Fitting, hose - 1/8"-27 pipe male .....	 <b>50-8115</b>	\$2.46
<b>37.</b> Dowel pin, .250" diameter x 1/2" (1970-up S&S BT) 358, 366		
each .....	<b>50-8022</b>	\$2.49
2 pack .....	<b>50-8022-2</b>	\$4.46
5 pack .....	<b>50-8105</b>	\$5.25
<b>38.</b> Screw, SHC - 10-24 x 1" (Stator) (N/S) 2720		
each .....	<b>50-0044</b>	\$1.08
<b>39.</b> Screw, SHS - 10-24 x 5/16" - (Stator plug clamp) (N/S)		
each .....	<b>50-0045</b>	\$1.02
<b>40.</b> Gearcover (See PAGE 221)		
<b>41.</b> Gearcover gasket 1970-up S&S BT		
25225-93A, 25225-93B, 25225-70C, 25257-80 .....	<b>31-2107</b>	\$3.28
<b>42.</b> Gasket, CPS hole (obsolete) .....	<b>N/A</b>	
<b>43.</b> Cover, CPS hole .....	<b>31-2056-S</b>	\$5.83
<b>44.</b> Screw, Torx, 8-32 x 3/8" 68042-99 (each) .....	<b>50-0054-S</b>	\$0.36
<b>45.</b> CPS hole plug .....	<b>106-1189</b>	\$9.28
<b>46.</b> O-ring (each) .....	<b>50-8270</b>	\$1.05
5 pack .....	<b>50-8275</b>	\$2.97
<b>47.</b> CPS hole plug kit. ....	<b>106-2997</b>	\$19.41

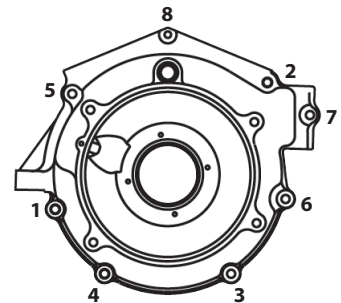
(N/S) = Not Shown

N/A = No longer available



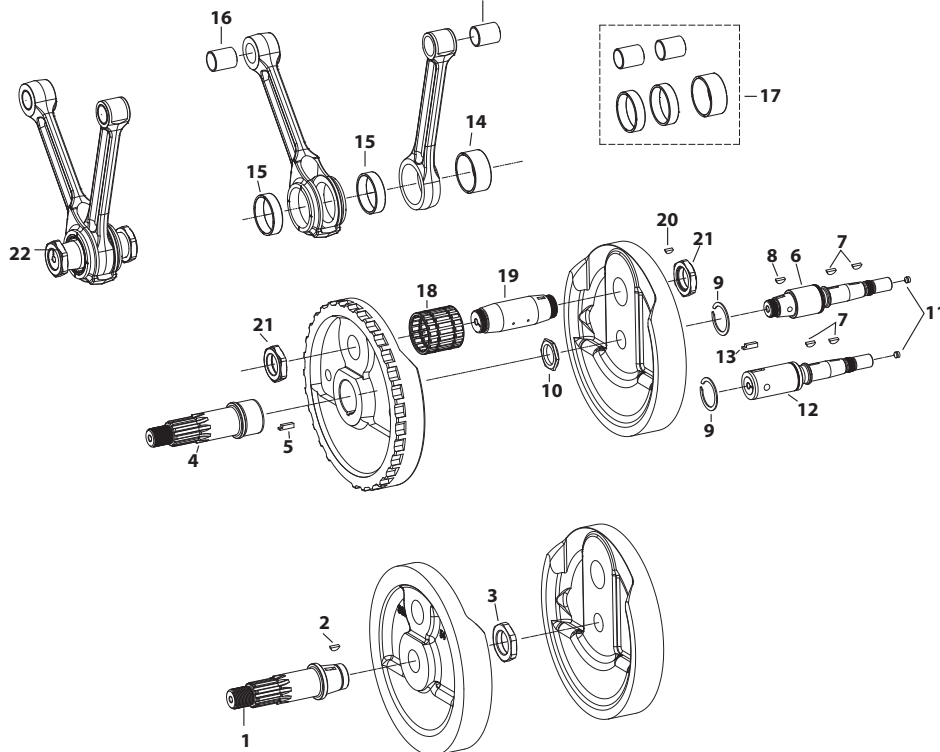
Details are showing the crankcase hardware for cases manufactured before 6-1-08

## BOLT POSITION DIAGRAM



# FLYWHEEL REPLACEMENT PARTS FOR V96, V107 AND V113

- |   |                    |          |
|---|--------------------|----------|
| 1. Sprocket Shaft, 1984-1999 w/ S&S SE/SL flywheels<br>(includes #2 & 3) .....  | <b>33-2004</b>     | \$122.24 |
| 2. Key (each) .....   | <b>50-8225-S</b>   | \$1.05   |
| 3. Sprocket Shaft Nut .....   | <b>33-2033</b>     | \$14.31  |
| 4. Sprocket Shaft, 1984-'99 w/ S&S SGX/SF/SM flywheels<br>(includes #5) .....   | <b>TUV 33-2009</b> | \$122.25 |
| 5. Key (each) .....   | <b>50-8227</b>     | \$2.07   |
| 6. Pinion Shaft (includes #7, 8, 9, 10, 11)<br>1984-1986 Stock Flywheels, L1981-99 S&S BL/SL/SM flywheels<br>Stock or S&S® Super Stock® Cases<br>Standard ..... | <b>USA 33-2027</b> | \$142.01 |
| + .001" .....   | <b>33-2028</b>     | \$198.97 |
| 1984-1999 S&S BL/SL/SM flywheels S&S SA cases + .250"<br>Standard .....   | <b>33-2040</b>     | \$142.03 |
| 7. Key, pinion & oil pump (each) .....  | <b>50-8221-S</b>   | \$2.16   |
| 5 pack .....  | <b>50-1008</b>     | \$4.21   |
| 8. Pinion Shaft Key 11218 (each) .....  | <b>50-8222-S</b>   | \$1.52   |
| 5 pack .....  | <b>50-1009</b>     | \$7.45   |
| 9. Bearing Retaining Ring 11177A (each) .....   | <b>50-8057</b>     | \$1.22   |
| 5 pack .....  | <b>50-1004</b>     | \$8.74   |
| 10. Pinion Shaft Nut .....  | <b>USA 33-2034</b> | \$9.94   |
| 11. Meter Plug<br>.0625" hole .....   | <b>USA 50-8316</b> | \$4.33   |
| .0925" hole .....   | <b>TUV 50-8317</b> | \$2.46   |
| 12. Pinion Shaft (+.250" longer) (includes #7, 9, 13)<br>1984-1999 S&S SG flywheels/SA crankcases .....   | <b>33-2047</b>     | \$151.10 |
| 13. Pinion Shaft Key .....  | <b>50-8234</b>     | \$4.04   |
| 14. Front Rod Bushing, 1941-1999 all S&S flywheels 24356-36A .....  | <b>USA 34-4005</b> | \$19.73  |
| 15. Rear Rod Bushing 24345-36A (each) .....   | <b>USA 34-4006</b> | \$15.11  |
| 16. Wristpin Bushing 24334-36 .....   | <b>USA 34-4007</b> | \$5.25   |
| 17. Race and Bushing Set (includes #14, 15, 16) .....   | <b>USA 34-4040</b> | \$58.29  |
| 18. Cage and Bearing Set (std.) 24346-87A, 24385-40B .....  | <b>USA 34-4010</b> | \$56.60  |
| 19. Crankpin (includes #20, 21), late 1981-1999 all S&S flywheels<br>Standard 23961-80A .....   | <b>34-2102</b>     | \$128.97 |
| .001" OS 23974-87 .....   | <b>34-2103</b>     | \$128.97 |
| .002" OS 23975-87 .....   | <b>34-2105</b>     | \$128.97 |
| .003" OS .....  | <b>34-2106</b>     | \$128.97 |
| 20. Crankpin Key, late 1981-1999 all S&S flywheels 11218<br>each .....  | <b>50-8222-S</b>   | \$1.52   |
| 5 pack .....  | <b>50-1009</b>     | \$7.45   |
| 21. Crankpin Nut, late 1981-1999 all S&S flywheels<br>23967-54A, 23969-83, 23901-81, 23981-98 .....   | <b>USA 34-2104</b> | \$8.01   |
| 22. Connecting Rod Assembly, 1984-'99 all big twins<br>(includes #14, 15, 16, 18, 19, 20, 21)<br>Heavy Duty 24281-80, 24281-83 .....                            | <b>34-7013</b>     | \$446.54 |



## NOTES

S&S rods with their beefier than stock construction are slightly heavier than stock connecting rods. Therefore, rebalancing the flywheels is recommended when S&S rods are used in stock replacement applications. We realize that rebalancing is an inconvenience, but we did not want to sacrifice rod strength. In addition, given the variations in stock and aftermarket components available to engine builders, flywheel rebalancing is a desirable step in any major engine overhaul.

We recommend and sell only the pre-1990 big twin shaft. Since the S&S pinion shafts are of the earlier design, they will not accept the late style stock pinion gear, oil pump drive gear, gear spacer and pinion gear nut – to make it easier to install S&S flywheels.

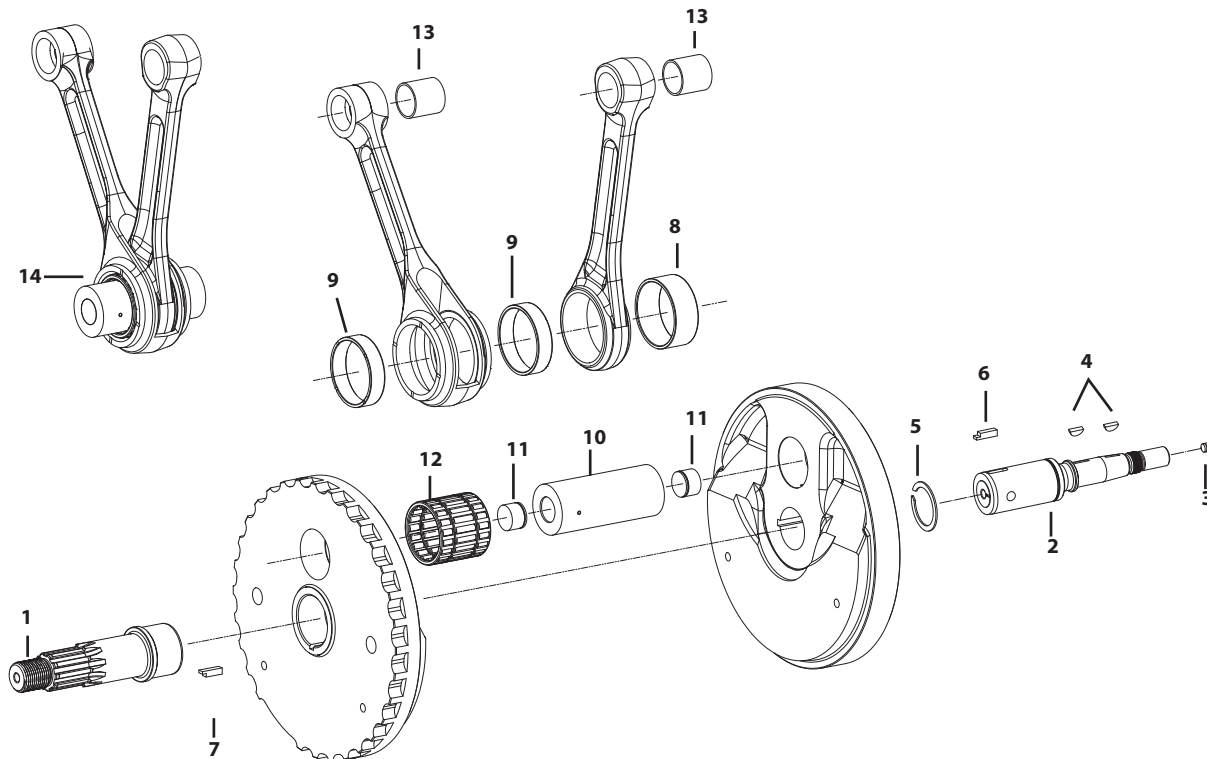
1989-'99 big twin engines: S&S offers a conversion package consisting of earlier style pinion gear, spacer, nut, and oil pump drive gear to fit the S&S pinion shaft. S&S offers pinion and oil pump drive gears to fit the S&S pinion shaft for Harley-Davidson® Sportster® models.

Crankpins must be measured prior to final honing of bearing races to ensure proper clearance. (Inquire about S&S flywheel rebuild program if adequate measurement equipment is not available.) Dimensions shown are nominal.

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.

# FLYWHEEL REPLACEMENT PARTS FOR V111, V117 AND V124

- |  |                                      |          |
|--|--------------------------------------|----------|
| 1. Sprocket Shaft, 1984-'99 bt (includes key).....   | <b>TUV</b> <b>33-2009</b>            | \$122.25 |
| 2. Pinion Shaft (+.250" longer) (includes #7, 9, 13)<br>1984-1999 S&S SG flywheels/SA crankcases ..... | <b>33-2047</b>                       | \$151.10 |
| 3. Meter Plug<br>.0625" hole .....   | <b>USA</b> <b>50-8316</b>            | \$4.33   |
| .0925" hole .....  | <b>USA</b> <b>TUV</b> <b>50-8317</b> | \$2.46   |
| 4. Key, pinion & oil pump 11218 .....  | <b>50-8221-S</b>                     | \$2.16   |
| 5 pack.....  | <b>50-1008</b>                       | \$4.21   |
| 5. Bearing Retaining Ring 11177A .....   | <b>50-8057</b>                       | \$1.22   |
| 5 pack.....  | <b>50-1004</b>                       | \$8.74   |
| 6. Pinion Shaft Key .....  | <b>50-8234</b>                       | \$4.04   |
| 7. Key .....   | <b>50-8227</b>                       | \$2.07   |
| 8. Front Rod Race .....  | <b>USA</b> <b>TUV</b> <b>34-4008</b> | \$25.12  |
| 9. Rear Rod Race .....   | <b>USA</b> <b>TUV</b> <b>34-4013</b> | \$25.12  |
| 10. Crankpin (std.) .....  | <b>106-6239</b>                      | \$128.97 |
| 11. Crankpin Plug (each) .....   | <b>106-5256</b>                      | \$3.83   |
| 2 pack.....  | <b>50-8329-2</b>                     | \$7.46   |
| 12. Race/Bearing Set .....   | <b>340-0028</b>                      | \$138.43 |
| 13. Wristpin Bushing,<br>1984-'99 bt, straight bushing .....   | <b>USA</b> <b>TUV</b> <b>34-4012</b> | \$5.77   |
| 14. Connecting Rod Set<br>1984-'99 bt, straight wristpin ends .....                                    | <b>N/A</b>                           |          |
























## NOTES

Due to different crankpin diameters, S&S® connecting rod assemblies cannot be used with stock Harley-Davidson® flywheels.

S&S flywheels for S&S V111, V117 AND V124 engines are pressed together as opposed to using the traditional tapered shafts and crankpin. Assembly and truing requires special equipment. If you do not have the capability of servicing pressed together flywheel assemblies, S&S will remanufacture your S&S flywheel assembly to like new specifications. See Section 10: Dealer Services or call your S&S customer support representative for more information.

# STANDARD OIL PUMP KIT REPLACEMENT PARTS

1. Pump body assembly Fits 1984-'91 31-6042 Fits 1992-'99 31-6043		31-6050	\$152.38
		31-6051	\$152.38
2. Shaft, idler 26327-68		31-6004	\$9.28
3. Seal, drive shaft 26227-58		31-6005	\$3.47
4. Gear, return drive 26317-68A		31-6013	\$19.73
5. Gear, return idler 26317-68A		31-6014	\$19.73
6. Gear, supply drive 26328-74, 26320-36		31-6015	\$18.62
7. Gear, supply idler 26326-62A		31-6016	\$18.62
8. Shaft, drive 26346-70		31-6011	\$16.26
9. Key, drive shaft 26347-15 (each)		50-8220-S	\$1.05
10 pack		50-8229	\$8.07
10. Plug, 1/8"-27 45830-48 (each)		50-8331	\$1.00
10 pack		50-1015	\$5.83
11. Ball, check valve 8866, 8873		50-8091	\$0.61
12. Spring, check valve 26363-36, 26363-56, 26262-80 (each)		31-6022	\$1.41
10 pack		31-6092	\$12.75
13. Relief valve 26400-82, 26400-82B		31-6082	\$6.98
14. Spring, relief valve 26207-83 (each)		31-6018	\$1.37
10 pack		31-6084	\$12.33
15. Screw, check valve & relief valve cover 26263-80, 26362-36 each		31-6021	\$4.62
5 pack		31-7005	\$20.94
16. O-ring 11105, 11273 (each)		50-8008	\$1.05
10 pack		50-8078	\$8.41
17. Pump cover assembly			
a. Pre-1992 (Top or bottom fittings; accepts pressure gauge.)		31-6059	\$84.92
b. Pre-1992 (Custom bottom fittings only.)		31-6060	\$84.92
c. 1992-'99 (Universal)		31-6061	\$84.92
d. 1992-'99 (Bottom fittings or central supply fitting.)		31-6062	\$84.92
18. Fitting, front chain hose		50-8116	\$2.46
19. Plug, pipe 1/8"-27 x 1/4" pipe		50-8332	\$0.63
20. Elbow, supply/return 26338-68A, 26561-81A, 26561-84A, 26338-68		106-2682	\$5.09
5 pack		50-1007	\$24.63
21. Fitting, supply/return hose		50-8115	\$2.46
22. Return fitting, compression 63523-92, 63523-62		50-8120	\$10.20
		50-8271	\$7.29
23. Seal, tubing, 3/8" x 1/2" O.D. x 1/4"		50-0069	\$1.08
24. Plug, 1/4"-20 (each)		50-0069P	\$1.09

25. Screws, mounting - 1984-'99			
a. 1/4"-24 x 1-1/2" (HHCS)		50-0082	\$2.16
b. 1/4"-24 x 2-1/4" (HHCS) 5430W		50-0088	\$2.77
c. 1/4"-20 x 1-1/2" (HHCS)		50-0080	\$0.26
d. 1/4"-20 x 2-1/4" (SHCS) 4717A		50-0078	\$0.68
e. 1/4"-20 x 1-1/2" (SHCS) 4718A		50-0079	\$0.42
26. Washer, 1/4" (each)		50-7017	\$1.03
12 pack		50-7013	\$6.16
27. Retaining ring 695-36, 26348-36 (each)		50-8058	\$1.24
10 Pack		50-8106	\$12.40
28. Retaining ring, external 11002 (each)		50-8059	\$1.03
10 Pack		50-8107	\$4.94
29. Gear, pump drive, 24T 26345-73		33-4230	\$28.27
30. Gear, pinion shaft pump drive - 1984-'89 26349-73, 26349-73A		33-4232	\$39.82
31. Gear, steel breather valve Standard 25310-82A, 25313-77B, 25311-90. +.030"		33-4241	\$90.18
		33-4242	\$90.18
32. Shim, steel breather kit - 8 pack (includes one of each thickness)		33-4249	\$23.02
a. +.100" thick		33-4200	\$3.93
b. +.110" thick 25320-79		33-4201	\$3.93
c. +.120" thick 25322-79		33-4202	\$3.93
d. +.130" thick 25325-79, 25320-82		33-4203	\$3.25
e. +.140" thick 25322-82, 25327-79		33-4204	\$3.93
f. +.150" thick 25325-82		33-4205	\$3.93
g. +.160" thick 25327-82		33-4206	\$3.93
h. +.170" thick		33-4207	\$2.72
33. Gasket rebuild kit (N/S) Includes key and retaining ring			
a. 1984-'91		31-6271	\$5.25
b. 1992-'99		31-6273	\$5.25
34. Master rebuild kit - (N/S) Includes: gasket rebuild kit, seal, retaining ring, relief valve spring, check valve spring, check valve ball, and cover screw o-rings.			
a. 1984-'91		31-6275	\$14.48
b. 1992-'99		31-6278	\$14.48
35. Drill jig, oil pump (N/S)		53-0013	\$51.77

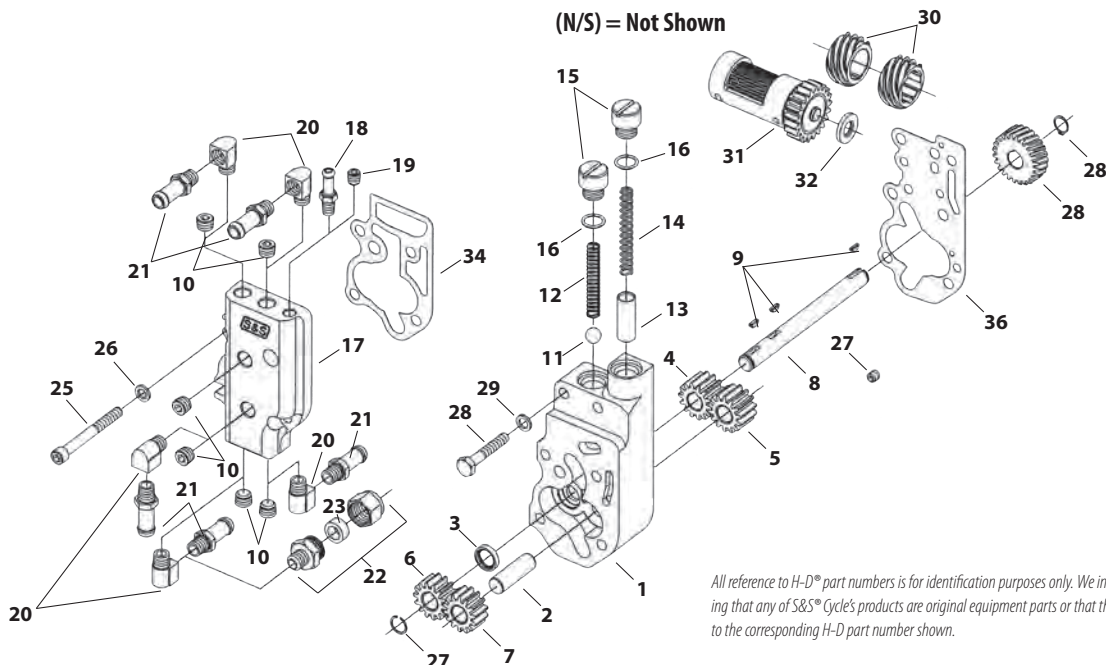
## Oil pump mounting hardware kit (N/S)

1984-91 (Includes # 25a, 25b, 25c, 25d, 26)	31-6288	\$11.53
1992-99 (Includes # 25d, 25e, 26)	31-6290	\$10.16

## Hardware Kit, Oilpump Cover (N/S)

1984-91 (Includes #10, 18, 19, 20, 21, 22)	31-6283	\$29.46
1992-99 (Includes #10, 20, 21, 22)	31-6286	\$24.77

(N/S) = Not Shown



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.



# HIGH VOLUME HIGH PRESSURE OIL PUMP REPLACEMENT PARTS

1. Pump body assembly Fits 1984-'91	31-6097	\$152.38
Fits 1992-'99	31-6078	\$152.38
2. Shaft, idler	31-6080-S	\$7.61
3. Seal, drive shaft (each)	31-6064-S	\$3.83
4. Gear, return drive, HVHP	31-6075	\$40.87
5. Gear, return idler, HVHP	31-6083	\$34.56
6. Gear, supply drive, HVHP	31-6074	\$40.86
7. Gear, supply idler, HVHP	31-6081	\$30.37
8. Shaft, drive 26346-70	USA 1,2,3 TÜV 3,4,5,6,7 31-6011	\$16.26
9. Key, drive shaft (each)	50-8228-S	\$2.30
9a. Key, Woodruff, .094" x .313" x .311", Steel 26347-15 each	50-8220-S	\$1.05
10 pack	50-8229	\$8.07
10. Plug, 1/8"-27 45830-48 (each)	50-8331	\$1.00
10 pack	50-1015	\$5.83
11. Ball, check valve (H-D® #8866, 8873)	USA 1,2,3 TÜV 1,2,3,4,5,6,7 50-8091	\$0.61
12. Spring, check valve 26363-36, 26363-56, 26262-80 each	31-6022	\$1.41
10 pack	31-6092	\$12.75
13. Relief valve 26400-82, 26400-82B	TÜV 31-6082	\$6.98
14. Spring, relief valve 26207-83 (each)	31-6018	\$1.37
10 pack	31-6084	\$12.33
15. Screw, check valve & relief valve cover 26263-80, 26362-36 each	31-6021	\$4.62
5 pack	31-7005	\$20.94
16. O-ring 11105, 11273 (each)	50-8008	\$1.05
10 pack	50-8078	\$8.41
17. Pump cover assembly 1984-'91 (Universal)	31-6098	\$84.92
1992-'99 (Universal)	31-6079	\$84.92
1992-'99 (Standard Style)	31-6094	\$84.92
18. Elbow, supply/return 26338-68A, 26561-81A, 26561-84A, 26338-68 each	106-2682	\$5.09
5 pack	50-1007	\$24.63
19. Fitting, supply/return hose	USA 1,2,3 TÜV 1,2,3,4,5,6,7 50-8115	\$2.46
20. Return fitting, compression 63523-92, 63523-62	USA 1,2,3 TÜV 1,2,3,4,5,6,7 50-8120	\$10.20
21. Seal, tubing 3/8" x 1/2" O.D. x 1/4"	TÜV 1,2,3 50-8271	\$7.29
22. Screws, mounting		

a. 1/4"-20 x 1-1/2" (SHCS) 4718A	50-0079	\$0.42
b. 1/4"-20 x 1-1/2" (HHCS)	50-0080	\$0.26
c. 1/4"-20 x 2-1/2" (SHCS)	50-0086	\$0.63
23. Washer, 1/4" (each)	50-7017	\$1.03
12 pack	50-7013	\$6.16
24. Retaining ring 695-36, 26348-36 (each)	50-8058	\$1.24
10 Pack	50-8106	\$12.40
25. Retaining ring, external 11002 (each)	50-8059	\$1.03
10 Pack	50-8107	\$4.94
26. Gear, pump drive, 24T 26345-73	TÜV 33-4230	\$28.27
27. Gear, pinion shaft pump drive 1954-'89 26349-73, 26349-73A	TÜV 33-4232	\$39.82
28. Gear, steel breather valve Standard 25310-82A, 25313-77B, 25311-90 +.030"	33-4241	\$90.18
	33-4242	\$90.18
29. Shim, steel breather kit 8 pack (Includes one of each thickness)	33-4249	\$23.02
+ .100" thick	33-4200	\$3.93
+ .110" thick 25320-79	33-4201	\$3.93
+ .120" thick 25322-79	33-4202	\$3.93
+ .130" thick 25325-79, 25320-82	33-4203	\$3.25
+ .140" thick 25322-82, 25327-79	33-4204	\$3.93
+ .150" thick 25325-82	33-4205	\$3.93
+ .160" thick 25327-82	33-4206	\$3.93
+ .170" thick	33-4207	\$2.72
30. Gasket rebuild kit Includes key and retaining ring (N/S) 1984-'91 BT HVHP 31-6306	31-6308	\$7.56
1992-'99 BT HVHP	31-6299	\$7.56
31. Master rebuild kit (N/S) Includes gasket rebuild kit, seal, retaining ring, relief valve spring, check valve spring, check valve, ball, and cover screw o-rings. 1984-'91 BT HVHP	31-6309	\$19.73
1992-'99 BT HVHP	31-6300	\$19.73

## Hardware Kit, Oilpump Cover (N/S)

(Includes # 10, 18, 19, 20) 31-6285 \$26.23

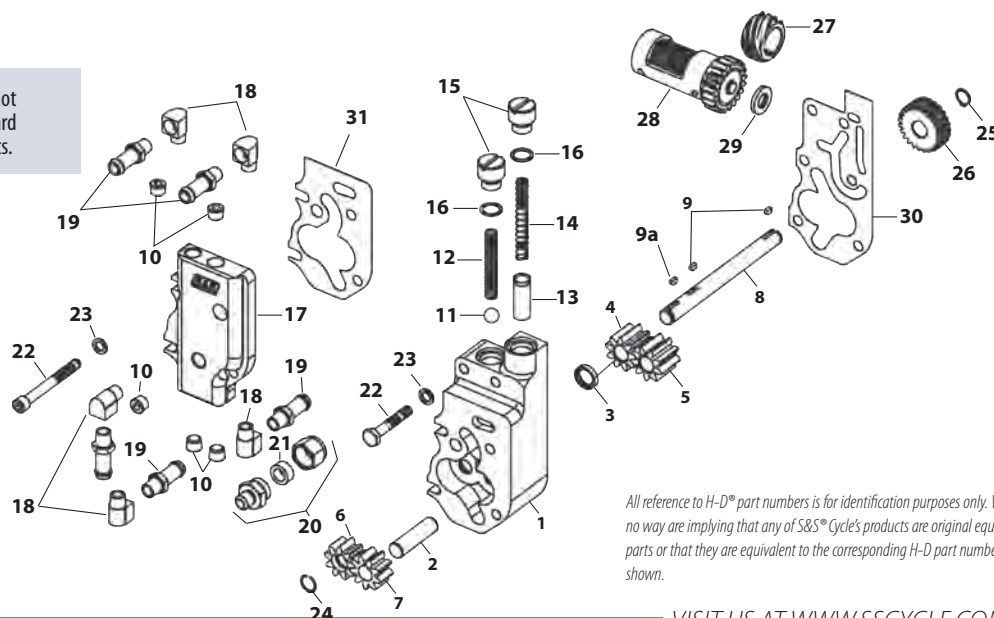
## Oilpump Mounting Hardware Kit (N/S)

(Includes # 22a, 22b, 22c, 23) 31-6301 \$5.87

(N/S) = Not Shown

## NOTE

HVHP oil pump gaskets are not interchangeable with standard S&S or stock oil pump gaskets.



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.

VISIT US AT WWW.SSCYCLE.COM

Milwaukee  
Eight  
2017

Twin Cam  
96/103/110  
2001-2017

Twin Cam  
88  
1999-2006

Evolution®  
1984-1999

Sportster®  
& Buell®  
1966-2017

Street &  
Street Rod™  
2014-2017

Vintage  
Engines  
1926-1984

X-Wedge®  
2007-2015

Indian® &  
Victory®  
Models

Racing  
Products











Tools &  
Shop  
Supplies






Dealer  
Services  
& Promo  
Items

Warranty &  
Company  
Policy



Appendix  
& Index

# PERFORMANCE REPLACEMENT HEAD REPLACEMENT PARTS FOR 1984-'99 BIG TWIN ENGINES

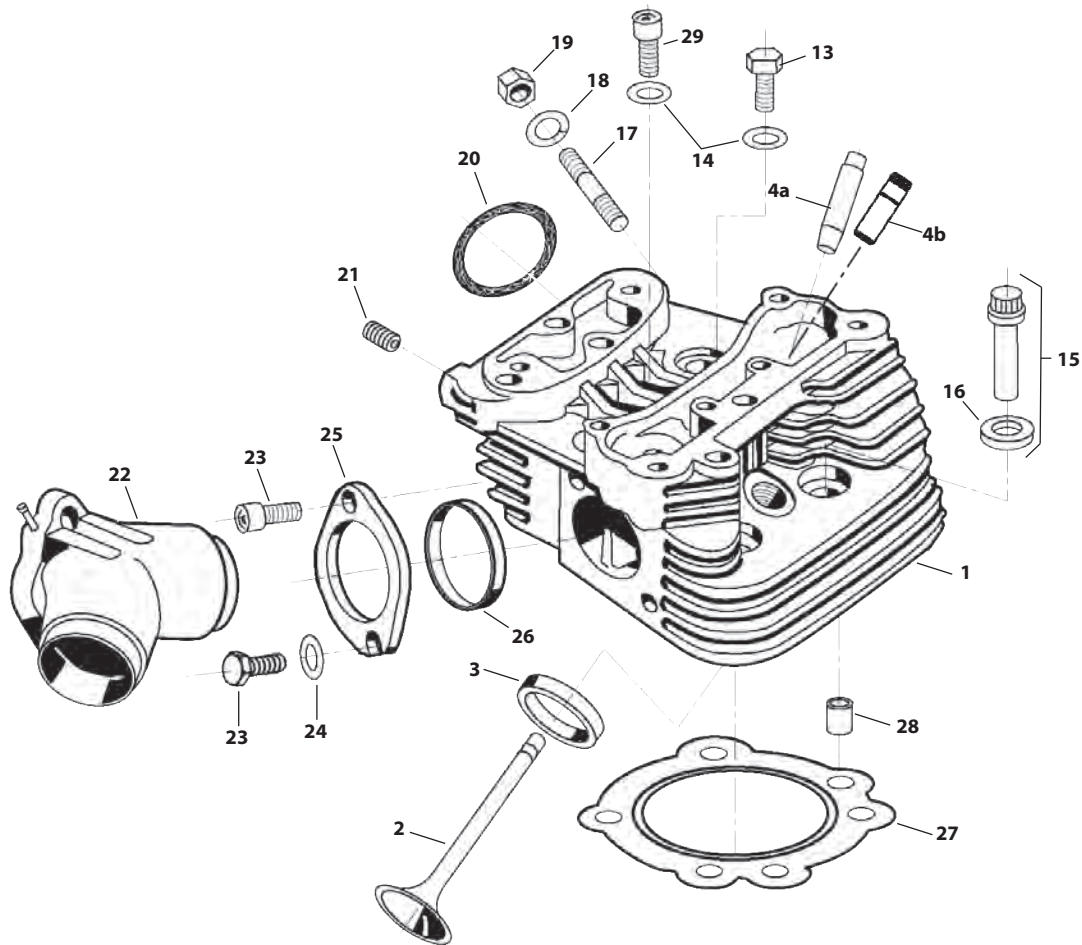
1. Cylinder head (See cylinder heads on PAGE 234)
2. Valve
  - Intake — 1.900" diameter..... **90-2139** \$50.43
  - Exhaust — 1.575" diameter..... **90-2026** \$51.00
3. Valve seats
  - Intake — 1.900" diameter..... **90-2138** \$20.47
  - Exhaust — 1.575" diameter..... **90-2003** \$51.57
- 4a. Valve guide — Cast — intake or exhaust
  - Standard *Diameter .5625/.5620 18112-92*
    -   **90-2210** \$10.49
    - + .001" *Diameter .5635/.5630 18130-83C*.....  **90-2211** \$43.71
    - + .002" *Diameter .5645/.5640 18133-83A, 18133-83D*.....  **90-2212** \$43.71
    - + .003" *Diameter .5655/.5650 18131-83C*.....  **90-2213** \$43.71
    - + .030" *Diameter .5925/.5920*.....  **90-2219** \$36.43
- 4b. Valve Guide — Powder Metal — Intake/Exhaust
  - Standard..... **900-0553** \$32.06
  - + .001..... **900-0554** \$32.06
  - + .002..... **900-0555** \$32.06
  - + .003..... **900-0556** \$32.06
13. Head mount bolt —  $\frac{3}{8}$ " — 16 x 1 $\frac{1}{4}$ " (H-D#4716W)
  -   **50-0168** \$1.03
14. Flat washer —  $\frac{3}{8}$ "
  - Zinc (each).....   **50-7051** \$1.15
  - Chrome (each)..... **50-7106-S** \$2.56
15. Head bolt assembly — Includes head bolt washer. (See PAGE 236)
16. Head bolt washer
  - .100" (each)..... **50-7088** \$2.00
  - .250" (each)..... **50-7091** \$1.63
17. Exhaust port stud 16715-83 (each)..... **50-0493** \$2.65
  - 5 pack..... **50-1028** \$12.05
18. Lock washer —  $\frac{5}{16}$ "..... **50-7032** \$0.26
19. Nut, HH —  $\frac{5}{16}$ " — 24 7833, 7883..... **50-5023** \$0.26
20. Exhaust pipe gasket 65324-83B, 65324-83A (each)..... **106-5029** \$5.03
  - 10 pack..... **93-1072** \$44.43
21. Thread conversion insert,  $\frac{1}{2}$ " — 13 to  $\frac{5}{16}$ " — 18..... **50-8151** \$6.16
22. Intake manifold (See PAGE 238)
23. Screw, manifold mounting
  - SH  $\frac{5}{16}$ " — 18 x 1" 3201WA, 2708..... **50-0101** \$0.57
  - HH —  $\frac{5}{16}$ " — 18 x 1" 3987 (each)..... **50-0108** \$1.05
24. Washer, flat —  $\frac{5}{16}$ " 6320, 70907-07, 6016, 6702..... **50-7034** \$0.26

25. Flange, manifold mounting
  - Front 27009-86A (each).....  **16-0232** \$20.40
  - 5 pack.....  **16-0600** \$100.54
  - Rear 27010-86A (each).....  **16-0233** \$20.40
  - 5 pack.....  **16-0601** \$100.54
  - Set of Two..... **106-3516** \$40.00
26. O-ring, manifold 
  - Stock manifolds 26995-86B, 26995-86A, 26992-99 (each)..... **16-0236** \$4.72
  - 10 pack..... **16-0244** \$40.87
  - S&S manifolds (each)..... **16-0235** \$5.03
  - 10 pack..... **16-0243** \$45.07
27. Head gasket, 1984-'99 big twin (No o-rings required)
  - 3 $\frac{1}{2}$ " Bore
    - .045" thick 16770-84D, 16770-84F (each)..... **93-1011-S** \$7.50
    - 10 pack..... **93-1024** \$85.71
    - .0625" thick 16770-84D, 16770-84F, 10773-85 (each)..... **93-1313-S** \$8.96
    - 10 pack..... **93-1051** \$144.26
  - 3 $\frac{5}{8}$ " Bore
    - .045" thick (each)..... **93-1037-S** \$7.71
    - 10 pack..... **93-1052** \$71.71
    - .062" thick (each)..... **93-1016-S** \$14.89
    - 10 pack..... **93-1053** \$144.68
28. Alignment dowel 16574-99A, 16573-83, 16573-83A (each)..... **50-8023** \$1.68
  - 10 pack..... **50-8109** \$16.26
29. Temp Sensor Hole Plug Screw, SHCS,  $\frac{3}{8}$ " — 16 x 1" (each)..... **50-0161** \$1.06




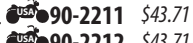
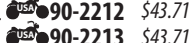
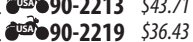
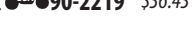





## TOP END REBUILD GASKET KITS FOR S&S® ENGINES FOR BIG TWINS

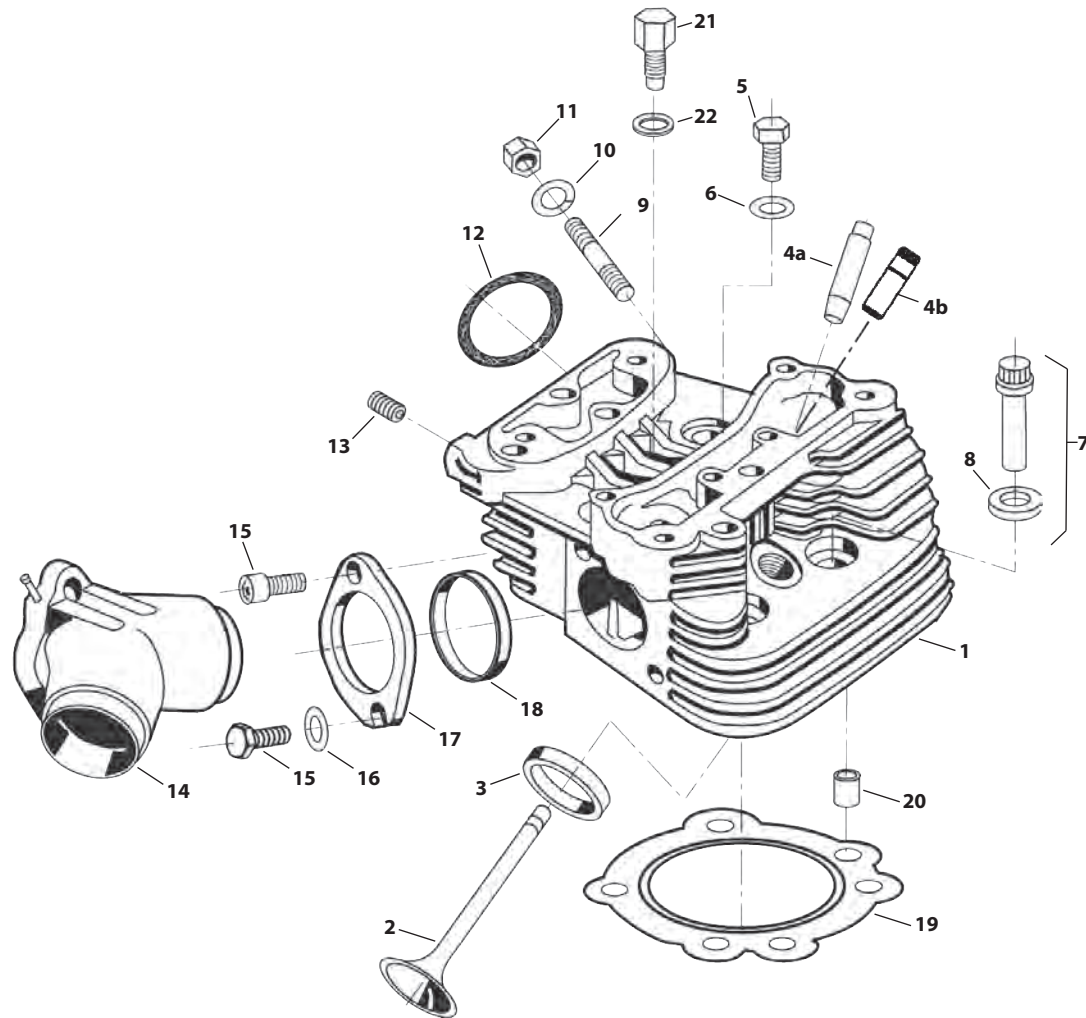
S&S Engine Family	Year Group	Bore Size	Part No.	MSRP
V-Series	1984-'99	3 $\frac{5}{8}$ "	<b>90-9502</b>  	\$65.40
V-Series	1984-'99	3 $\frac{1}{2}$ "	<b>90-9507</b>	\$70.66

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.







# SUPER STOCK™ CYLINDER HEAD REPLACEMENT PARTS FOR 1984-'99 BIG TWIN 3-5/8" TO 4" BORE

1. Cylinder head (See PAGE 234 & PAGE 235)
2. Valves
  - Intake
    - 2.000" diameter ..... **90-2000** \$26.87
    - 2.000" diameter+.085" stem length ..... **90-2004** \$28.95
    - 2.000" diameter+.005" stem diameter ..... **90-2029** \$46.63
  - Exhaust
    - 1.605" diameter ..... **90-2001** \$60.53
    - 1.605" diameter+.005" stem ..... **90-2030** \$60.53
3. Valve seats
  - Intake - 2.000" diameter .....  **90-2002** \$21.77
  - Exhaust - 1.605" diameter .....  **90-2003** \$51.57
- 4a. Valve guide - intake or exhaust
  - Standard Diameter .5625/.5620 18112-92 .....  **90-2210** \$10.49
  - +.001" Diameter .5635/.5630 18130-83C .....  **90-2211** \$43.71
  - +.002" Diameter .5645/.5640 18133-83A, 18133-83D .....  **90-2212** \$43.71
  - +.003" Diameter .5655/.5650 18131-83C .....  **90-2213** \$43.71
  - +.030" Diameter .5925/.5920 .....  **90-2219** \$36.43
- 4b. Valve Guide - Powder Metal - Intake/Exhaust
  - Standard ..... **900-0553** \$32.06
  - +.001 ..... **900-0554** \$32.06
  - +.002 ..... **900-0555** \$32.06
  - +.003 ..... **900-0556** \$32.06
5. Head mount bolt - 3/8"-16 x 1 1/4" 4716W ..... **50-0168** \$1.03
6. Flat washer - 3/8"
  - Zinc (each) .....  **50-7051** \$1.15
  - Chrome (each) ..... **50-7106-S** \$2.56
7. Head bolt assembly - Includes head bolt washer (See PAGE 236)
8. Head bolt washer
  - .100" (each) ..... **50-7088** \$2.00
  - .250" (each) ..... **50-7091** \$1.63
9. Exhaust port stud 16715-83 (each) ..... **50-0493** \$2.65
  - 5 pack ..... **50-1028** \$12.05
10. Lock washer - 5/16" (each) ..... **50-7032** \$0.26
11. Nut, HH - 5/16" -24 7833, 7883 (each) ..... **50-5023** \$0.26
12. Exhaust pipe gasket 65324-83B, 65324-83A (each) ..... **106-5029** \$5.03
  - 10 pack ..... **93-1072** \$44.43
13. Thread conversion insert 1/2"-13 to 5/16"-18 ..... **50-8151** \$6.16
14. Intake manifold (See PAGE 238)
15. Screw, manifold mounting
  - SH - 5/16"-18 x 1" 3201WA, 2708 (each) ..... **50-0101** \$0.57
  - HH - 5/16"-18 x 1" 3987 (each) ..... **50-0108** \$1.05
16. Washer, flat - 5/16" 6320, 70907-07, 6016, 6702 (each) ..... **50-7034** \$0.26
17. Flange, manifold mounting
  - Front 27009-86A (each) .....  **16-0232** \$20.40
  - 5 pack .....  **16-0600** \$100.54
  - Rear 27010-86A (each) .....  **16-0233** \$20.40
  - 5 pack .....  **16-0601** \$100.54
  - Set ..... **106-3516** \$40.00
18. O-ring, manifold (each) ..... **16-0235** \$5.03
  - 10 pack ..... **16-0243** \$45.07
19. Head gasket 3 1/2" Bore
  - .045" thick (no o-rings required) 16770-84D, 16770-84F ..... **93-1011-S** \$7.50
  - each ..... **93-1011-S** \$7.50
  - 10 pack ..... **93-1024** \$85.71
  - .0625" thick (no o-rings required) 16770-84D, 16770-84F, 10773-85 ..... **93-1313-S** \$8.96
  - each ..... **93-1313-S** \$8.96
  - 10 pack ..... **93-1051** \$144.26
  - 3 5/8" Bore .045" thick (no o-rings required) (each) ..... **93-1037-S** \$7.71
  - 10 pack ..... **93-1037-S** \$7.71
  - .062" thick (no o-rings required) (each) ..... **93-1016-S** \$14.89
  - 10 pack ..... **93-1053** \$144.68
  - 4" Bore
    - .045" thick (each) ..... **93-1040-S** \$7.71
    - 10 pack ..... **93-1071** \$71.71
    - .070" diameter 26432-76A ..... **50-8034-S** \$1.15
20. Alignment dowel 16574-99A, 16573-83, 16573-83A (each) ..... **50-8023** \$1.68
  - 10 pack ..... **50-8109** \$16.26
  - Dowel pin - 1/4" diameter x 1/2" - 4" bore 358, 366 (each) ..... **50-8022** \$2.49
  - 2 pack ..... **50-8022-2** \$4.46
  - 5 pack ..... **50-8105** \$5.25
21. Plug, HH - 14mm (each) ..... **90-4916** \$10.33
  - 2 pack ..... **90-4916-2** \$18.83
22. Washer, compression release- 14mm
  - .507" x .705" x .047" (each) ..... **50-7094** \$4.29



## TOP END REBUILD GASKET KITS FOR S&S® ENGINES FOR BIG TWINS

S&S Engine Family	Year Group	Bore Size	Part No.	MSRP
V-Series	1984-'99	4"	90-9503  	\$66.46
V-Series	1984-'99	3 7/8"	90-9502  	\$65.40

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.



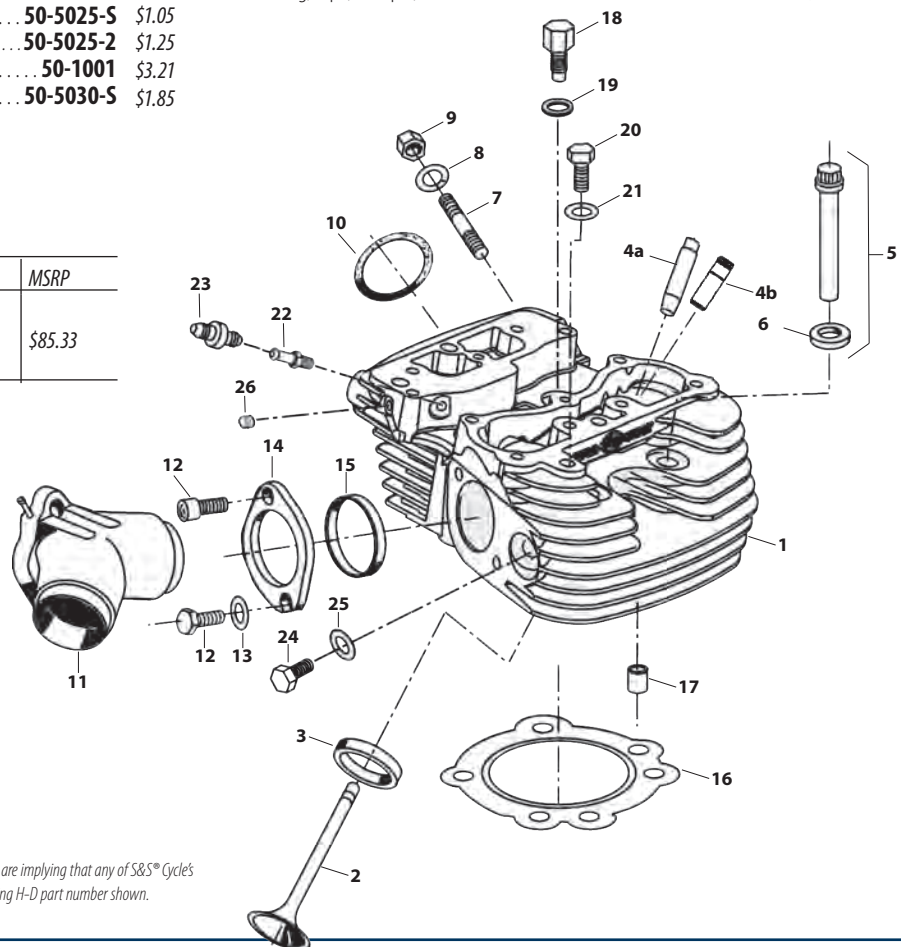
# SUPER STOCK™ CYLINDER HEADS REPLACEMENT PARTS FOR S&S 4-1/8" V-SERIES

1. Cylinder head - All S&S 4 1/8" bore (See PAGE 235)	—
2. Valve Intake	
2.000" diameter	90-2000 \$26.87
2.000" diameter +.085" stem length	90-2004 \$28.95
Exhaust	
1.605" diameter	90-2001 \$60.53
3. Valve seat	
Intake - 2.000" diameter	USA 1,2,3 TÜV 1,4,5,6,7 90-2002 \$21.77
Exhaust - 1.605" diameter	USA 1,2,3 TÜV 1,2,4,5,6,7 90-2003 \$51.57
4a. Valve guide - Cast - Intake/Exhaust (see valve guide diameter chart)	
Standard Diameter .5625/.5620 18112-92	USA 1,2,3 TÜV 1,2,3,5,6,7 90-2210 \$10.49
+ .001" Diameter .5635/.5630 18130-83C	USA 1,2,3 TÜV 1,2,3,5,6,7 90-2211 \$43.71
+ .002" Diameter .5645/.5640 18133-83A, 18133-83D	USA 1,2,3 TÜV 1,2,3,5,6,7 90-2212 \$43.71
+ .003" Diameter .5655/.5650 18131-83C	USA 1,2,3 TÜV 1,2,3,5,6,7 90-2213 \$43.71
+ .030" Diameter .5925/.5920	USA 1,2,3 TÜV 1,2,3,5,6,7 90-2219 \$36.43
4b. Valve Guide - Powder Metal - Intake/Exhaust	
Standard	900-0553 \$32.06
+ .001	900-0554 \$32.06
+ .002	900-0555 \$32.06
+ .003	900-0556 \$32.06
5. Head bolt assembly (Includes head bolt washer)	
111" (Includes washer .100")	93-3030 \$14.31
117" (Includes washer .250")	93-3037 \$14.31
124" (Includes washer .250")	93-3037 \$14.31
6. Head bolt washer	
.100" (each)	50-7088 \$2.00
.250" (H-D® #6016) (each)	50-7091 \$1.63
7. Exhaust port stud 16715-83 (each)	50-0493 \$2.65
5 pack	50-1028 \$12.05
8. Lock washer - 5/16"	50-7032 \$0.26
9. Nut, flanged - 5/16"-24 7593	
Zinc (each)	50-5025-S \$1.05
2 pack	50-5025-2 \$1.25
5 pack	50-1001 \$3.21
Chrome (each)	50-5030-S \$1.85

10. Exhaust pipe gasket (each) 65324-83B, 65324-83A	106-5029 \$5.03
10 pack	93-1072 \$44.43
11. Intake manifold (See Manifolds on PAGE 238)	
12. Manifold mounting screw	
SH - 5/16"-18 x 3/4" 3275 (each)	50-0302-S \$1.06
HH - 5/16"-18 x 1" 3987 (each)	50-0108 \$1.06
13. Flat washer - 5/16" 6320, 70907-07, 6016, 6702	50-7034 \$0.26
14. Manifold mounting flange	
Front 27009-86A (each)	USA 1,2,3 TÜV 1,2,3,5,6,7 16-0232 \$20.40
5 pack	USA 1,2,3 TÜV 1,2,3,5,6,7 16-0600 \$100.54
Rear 27010-86A (each)	USA 1,2,3 TÜV 1,2,3,5,6,7 16-0233 \$20.40
5 pack	USA 1,2,3 TÜV 1,2,3,5,6,7 16-0601 \$100.54
Set of two	106-3516 \$40.00
15. Manifold o-ring (each)	16-0235 \$5.03
10 pack	16-0243 \$45.07
16. Head gasket - All S&S SSW+ - 4 1/8" Bore, Micropore	
each	93-1047-S \$10.96
10 pack	93-1073 \$101.07
17. Alignment dowel, base and head 16595-99A (each)	50-8177 \$2.26
4 pack	50-8177-4 \$8.23
18. Plug, HH - 14mm (Use when compression releases are not installed)	
each	90-4916 \$10.33
2 pack	90-4916-2 \$18.83
19. Washer, compression - 14mm - .507" x .705" x .047"	50-7094 \$4.29
20. Head mount bolt 3/8"-16 x 1 1/4" 4716W	50-0168 \$1.03
21. Flat washer - 3/8"	USA 1,2,3 TÜV 1,4,5,6,7 50-7051 \$1.15
22. Vent hose fitting,	
Front, 1/16"-27 pipe	USA 1,2,3 TÜV 1,2,3,5,6,7 50-8117 \$2.46
Rear, 1/8"-27 pipe	USA 1,2,3 TÜV 1,2,3,5,6,7 50-8115 \$2.46
23. Check Valve	TÜV 50-8122 \$7.46
24. Screw, HHC, 5/16"-18 x 5/8" (each)	50-0106 \$1.06
25. Washer, flat, .319" x .545" x .42" (each)	50-7026 \$1.03
26. Plug, Pipe, 3/4 Taper, 1/16"-27 NPTF x .156"	50-8332 \$0.63

## TOP END REBUILD GASKET KITS FOR S&S® ENGINES FOR BIG TWINS

Engine Family	Year Group	Bore Size	Part No.	MSRP
V-Series	1984-'99	4 1/8"	90-9506 USA 1,2,3 TÜV 1,2,3,5,6,7	\$85.33



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.

# VALVE SPRING REPLACEMENT PARTS

## .650" Lift Sidewinder® Valve Springs

(Stock, Super Stock® and Performance Replacement Cylinder Heads)

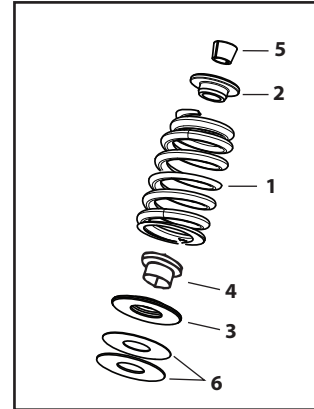
1. Spring, Valve .650"	106-5689	\$34.97
2. Collar, Top, Steel	106-5690	\$6.19
3. Collar, Bottom, Steel (each)	106-5691	\$4.52
4. Valve Seal		
.420" Cast	900-0338	\$1.46
.562" Powder Metal	900-0737	\$6.56
5. Valve Keeper 18229-83 (each)	90-2094-S	\$2.19
8 pack	50-7166	\$15.65
6. Valve Spring Shim		
.015" (each)	500-0013	\$1.18
.030" (each)	500-0014	\$1.18

## .585" Lift Street Performance Valve Springs

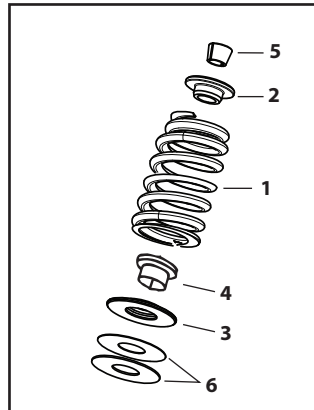
(Stock, Super Stock® and Performance Replacement Cylinder Heads)

1. Spring	900-0444	\$26.23
2. Collar, top, steel (each)	N/A	
3. Collar, bottom, steel	N/A	
4. Valve Seal		
.420" Cast	900-0338	\$1.46
.562" Powder Metal	900-0737	\$6.56
5. Valve Keeper 18229-83 (each)	90-2094-S	\$2.19
8 pack	50-7166	\$15.65
6. Valve spring shim		
.015" (each)	90-2086	\$1.05
5 pack	50-7161	\$4.21
.030" (each)	90-2087	\$1.47
5 pack	90-2198	\$6.76

## .650" Lift Sidewinder® Valve Springs



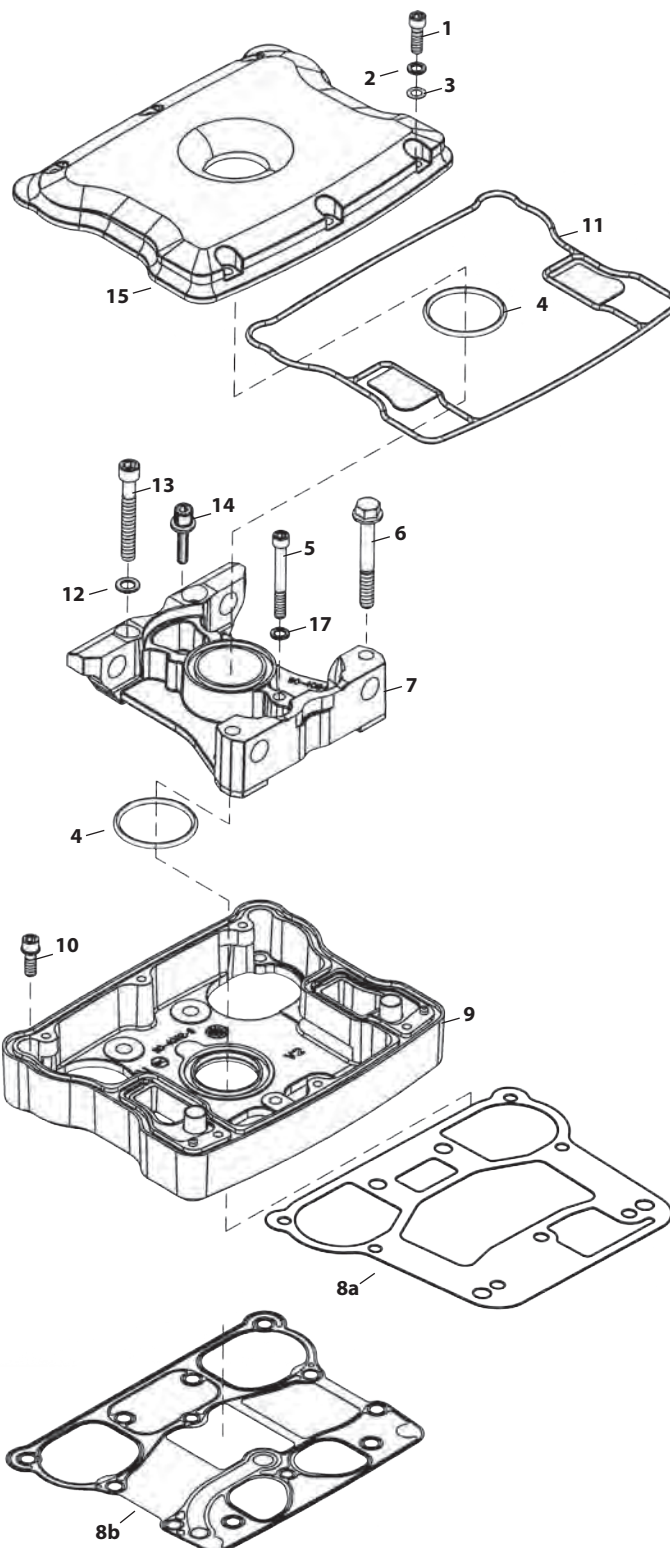
## .585" Lift Street Performance Valve Springs



# DIE-CAST ROCKER COVER REPLACEMENT PARTS FOR 1984-'99 BIG TWINS & S&S 4-1/8" BORE ENGINES

1. Screw, socket head 1/4"-20 x 3/4" 4069A (each) ..... **50-0067** \$1.03
2. Washer, flat 1/4" (each) ..... **50-7017** \$1.03
- 12 pack ..... **50-7013** \$6.16
3. Washer, rubber coated 1/4" (each) ..... **50-7015** \$1.15
- 8 pack ..... **50-7015-8** \$5.55
- 12 pack ..... **50-7015-12** \$9.49
4. Seal, o-ring (Included in gasket set see #16 below.) ..... **50-8044** \$1.28
5. Screw, SH 1/4"-20 x 2" 25794-36 ..... **50-0013** \$1.25
6. Screw, hex flange head 5/16"-18 x 2 1/4" 3501 ..... **50-0123** \$1.57
7. Support, rocker arm ..... **90-4140** \$52.46
8. Gasket, rocker housing, 1984-'99 bt
  - a. Gasket, Bottom, Rocker Cover, 1984-99 bt
    - each ..... **900-0538** \$9.18
    - 2 pack ..... **900-0592** \$18.94
  - b. S&S 4 1/8" Bore 16719-99B (each) ..... **90-4071-S** \$4.60
  - 2 pack ..... **90-4071** \$9.19
  - 10 pack ..... **90-4099** \$69.19
9. Housing, rocker, chrome
  - 1984-'99 bt ..... **900-0790** \$229.94
  - S&S 4 1/8" Bore ..... **900-4283** \$246.50
10. Screw, 1984-'99 bt, SHCS 1/4"-20 x 1" 4741A (each) ..... **50-0092-S** \$1.31
- 4 pack ..... **50-0092P** \$3.88
- S&S 4 1/8" Bore, SHCS 5/16"-18 x 1" ..... **50-0125-S** \$1.84
11. Seal, rocker cover (Included in gasket set see #16 below.) ..... **90-4079** \$10.49
12. Washer, flat 5/16" (each) ..... **50-7026** \$1.03
13. Screw, SH 5/16"-18 x 2 1/4" (each) ..... **50-0115-S** \$1.17
14. Screw, socket head, 1/4"-20 x 1" (S&S 4 1/8" bore only) 4741A
  - each ..... **50-0092-S** \$1.31
  - 4 pack ..... **50-0092P** \$3.88
15. Cover, rocker, chrome ..... **900-0706** \$159.50
16. Gasket Set (N/S)
  - 1984-'99 bt ..... **90-4091** \$62.77
  - S&S 4 1/8" Bore ..... **90-4111** \$54.51
17. Washer, flat, .261"x.474"x.050" Annealed, Stainless Steel
  - each ..... **50-7020** \$1.03

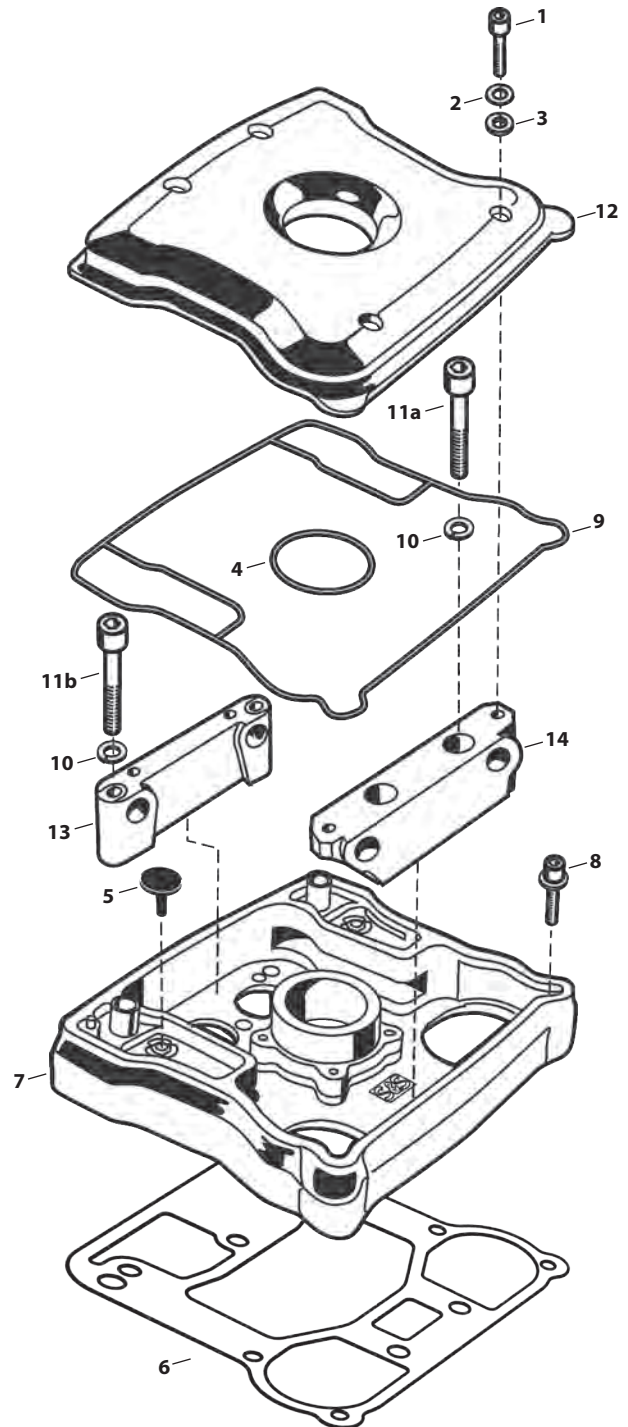
(N/S) = Not Shown



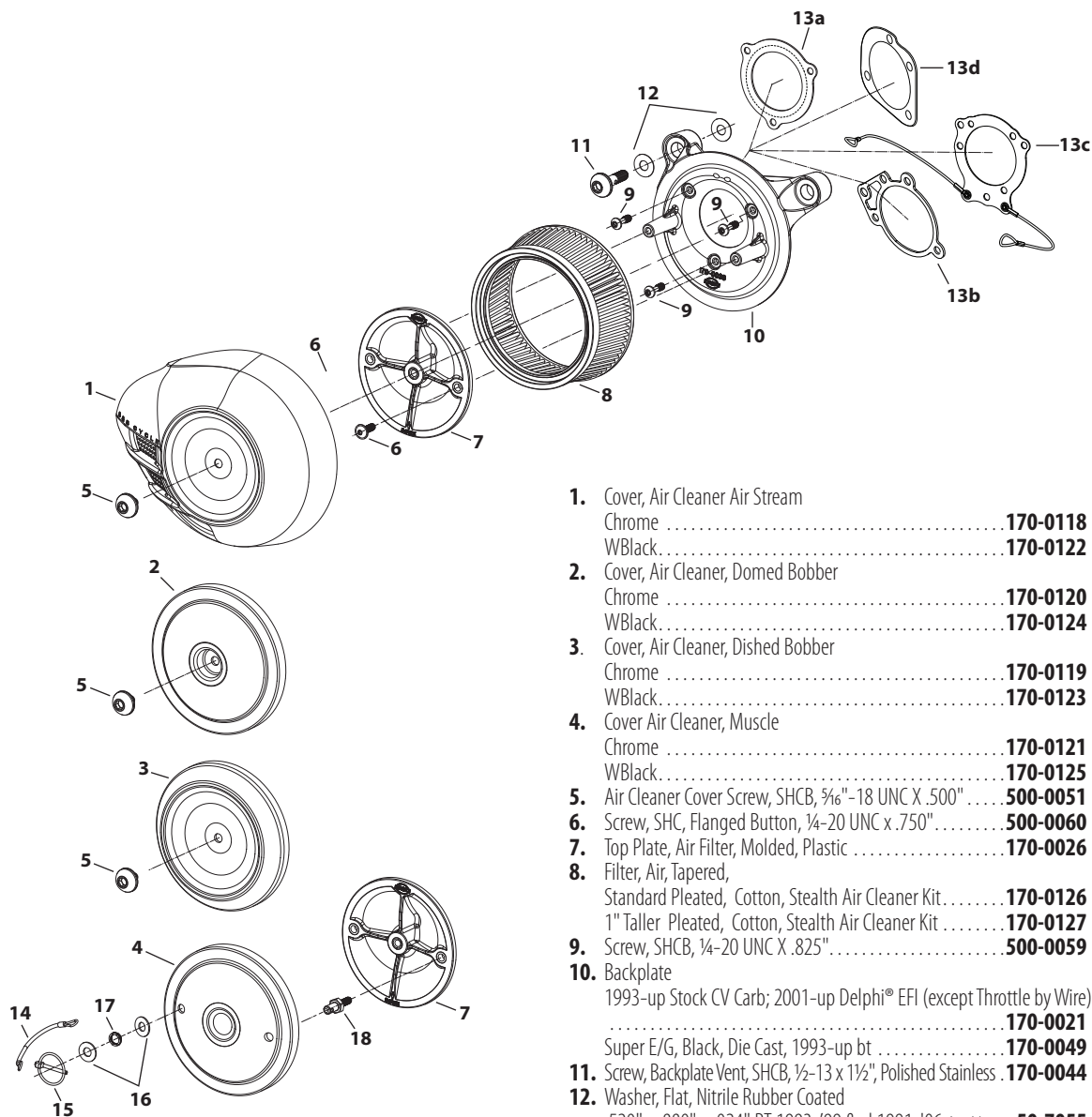
# BILLET ROCKER COVER REPLACEMENT PARTS FOR 1984-'99 BIG TWIN ENGINES

- |  |                   |          |
|--|-------------------|----------|
| 1. Screw, SH - 1/4"-20 x 3/4" 4069A (each).....  | <b>50-0067</b>    | \$1.03   |
| 2. Washer, flat - 1/4" (each).....   | <b>50-7017</b>    | \$1.03   |
| 12 pack.....   | <b>50-7013</b>    | \$6.16   |
| 3. Washer, flat - 1/4" rubber covered (each).....  | <b>50-7015</b>    | \$1.15   |
| 8 pack.....  | <b>50-7015-8</b>  | \$5.55   |
| 12 pack.....   | <b>50-7015-12</b> | \$9.49   |
| 4. O-ring - 1 5/8" I.D. x 1 7/8" O.D. x 1/8" CS Viton®<br>(Included in gasket set - See #16 below.)  |                   |          |
| 5. Rocker cover umbrella valve cover - 1992-'99 big twin<br>(Included in gasket set. See #16 below.) |                   |          |
| 26856-89, 26856-89A.....   | <b>90-4030</b>    | \$1.38   |
| 6. Gasket, Bottom, Rocker Cover, 1984-99 bt (each).....  | <b>900-0538</b>   | \$9.18   |
| 2 pack.....  | <b>900-0592</b>   | \$18.94  |
| 7. Rocker cover base - billet  |                   |          |
| Chrome.....  | <b>90-4051</b>    | \$310.98 |
| Natural.....   | <b>90-4056</b>    | \$248.92 |
| 8. Screw, SH w/washer - 1/4"-20 x 1" 4741A (each).....   | <b>50-0092-S</b>  | \$1.31   |
| 4 pack.....  | <b>50-0092P</b>   | \$3.88   |
| 9. Rocker cover o-ring gasket - S&S billet rocker cover<br>(Included in gasket set. See #16 below.)  |                   |          |
| 10. Washer, flat - 5/16" (each).....   | <b>50-7026</b>    | \$1.03   |
| 11. Bolt, rocker support - socket head   |                   |          |
| a. 5/16"-18 x 2-1/4" (left support).....   |                   |          |
| each.....  | <b>50-0115-S</b>  | \$1.17   |
| b. 5/16"-18 x 2-1/2" (right support) 876A  |                   |          |
| each.....  | <b>50-0118</b>    | \$1.33   |
| 12. Rocker cover top - billet  |                   |          |
| Chrome.....  | <b>90-4054</b>    | \$223.24 |
| 13. Right rocker shaft support - billet.....   | <b>90-4053</b>    | \$84.49  |
| 14. Left rocker shaft support - billet.....  | <b>90-4052</b>    | \$84.91  |
| 15. Rocker cover gasket set - S&S billet rocker cover - (N/S).....                                   | <b>90-4049</b>    | \$64.11  |
| 16. Rocker cover hardware kit - (N/S).....   | <b>90-4050A</b>   | \$30.56  |

(N/S) = Not Shown



# STEALTH AIR CLEANER KIT REPLACEMENT PARTS



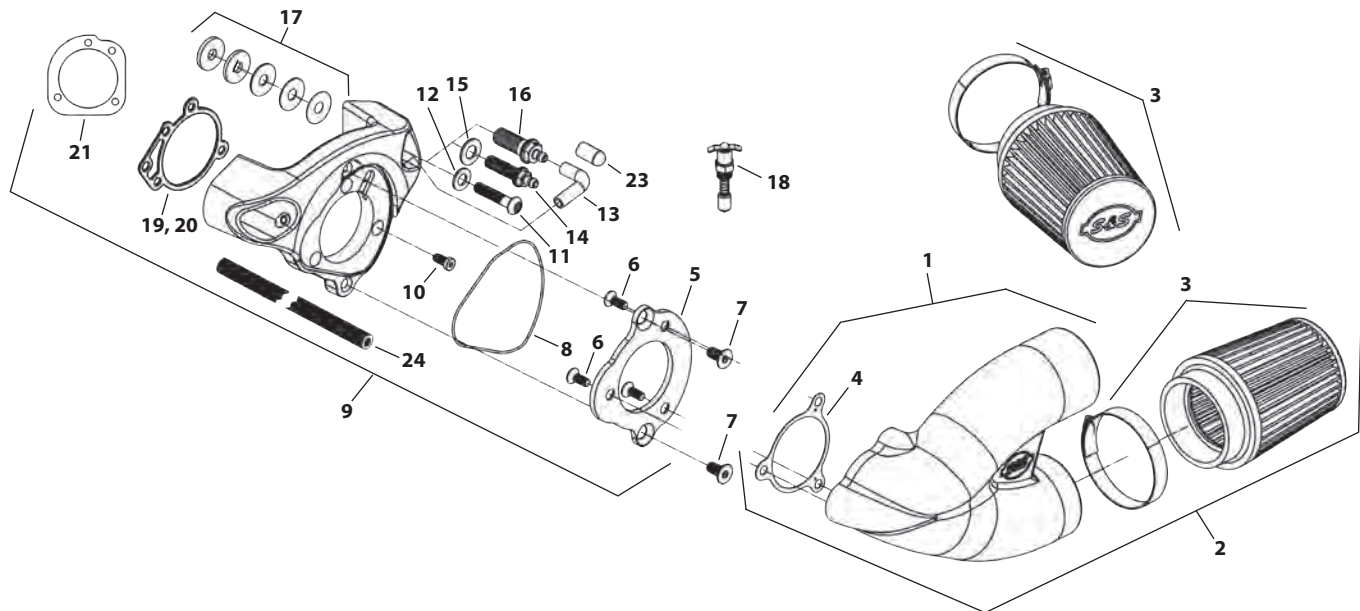
- |  |                 |          |
|--|-----------------|----------|
| 1. Cover, Air Cleaner Air Stream   |                 |          |
| Chrome .....   | <b>170-0118</b> | \$142.80 |
| WBlack .....   | <b>170-0122</b> | \$142.80 |
| 2. Cover, Air Cleaner, Domed Bobber  |                 |          |
| Chrome .....   | <b>170-0120</b> | \$96.83  |
| WBlack .....   | <b>170-0124</b> | \$96.83  |
| 3. Cover, Air Cleaner, Dished Bobber   |                 |          |
| Chrome .....   | <b>170-0119</b> | \$96.83  |
| WBlack .....   | <b>170-0123</b> | \$96.83  |
| 4. Cover Air Cleaner, Muscle   |                 |          |
| Chrome .....   | <b>170-0121</b> | \$137.66 |
| WBlack .....   | <b>170-0125</b> | \$132.57 |
| 5. Air Cleaner Cover Screw, SHCB, 3/16"-18 UNC X .500"                               | <b>500-0051</b> | \$10.16  |
| 6. Screw, SHC, Flanged Button, 1/4-20 UNC x .750"                                    | <b>500-0060</b> | \$2.00   |
| 7. Top Plate, Air Filter, Molded, Plastic  | <b>170-0026</b> | \$10.88  |
| 8. Filter, Air, Tapered,   |                 |          |
| Standard Pleated, Cotton, Stealth Air Cleaner Kit .....                              | <b>170-0126</b> | \$40.76  |
| 1" Taller Pleated, Cotton, Stealth Air Cleaner Kit .....                             | <b>170-0127</b> | \$61.16  |
| 9. Screw, SHCB, 1/4-20 UNC X .825"   | <b>500-0059</b> | \$1.28   |
| 10. Backplate  |                 |          |
| 1993-up Stock CV Carb; 2001-up Delphi® EFI (except Throttle by Wire)                 |                 |          |
| .....  | <b>170-0021</b> | \$45.83  |
| Super E/G, Black, Die Cast, 1993-up bt .....   | <b>170-0049</b> | \$45.83  |
| 11. Screw, Backplate Vent, SHCB, 1/2-13 x 1 1/2", Polished Stainless                 | <b>170-0044</b> | \$10.16  |
| 12. Washer, Flat, Nitrile Rubber Coated  |                 |          |
| .520" x .880" x .024" BT 1993-'99 & xl 1991-'06 (each) .....                         | <b>50-7055</b>  | \$1.12   |
| 10 pack .....  | <b>50-7057</b>  | \$11.18  |
| .380" x .880" x .024" BT 1999-'06 (each) .....                                       | <b>50-7054</b>  | \$1.12   |
| 10 pack .....  | <b>50-7059</b>  | \$11.18  |
| 13. Gasket, Backplate  |                 |          |
| a. Throttle by Wire, .0625" Thick, 2008-up bt .....                                  | <b>160-0035</b> | \$1.43   |
| b. Super E/G .....   | <b>106-1724</b> | \$1.57   |
| c. Stock CV Carb & EFI Throttle Body, Throttle by Wire, Lanyard style, 1991-up xl/bt |                 |          |
| .....  | <b>170-0137</b> | \$18.94  |
| d. Stock CV Carb & EFI Throttle Body, 1991-up xl/bt (except Throttle by Wire)        |                 |          |
| 29062-958 .....  | <b>106-6022</b> | \$1.46   |
| 14. Lanyard, 6" Stainless Steel .....  | <b>500-0095</b> | \$6.28   |
| 15. Lynch Pin .....  | <b>500-0083</b> | \$8.74   |
| 16. Washer, Fender, Chrome Plated .....  | <b>500-0094</b> | \$1.38   |
| 17. Spring, Wave Washer, Stainless Steel .....                                       | <b>500-0093</b> | \$4.85   |
| 18. Screw, Hex, Hood-pin, 1/4-20, UNC .....  | <b>500-0113</b> | \$7.14   |

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.



# SINGLE BORE TUNED INDUCTION SYSTEM REPLACEMENT PARTS

1. Tuned Intake Kit, 2.19" Single Bore	Natural.....	106-4968	\$136.33
	Wrinkle Black.....	106-4969	\$150.16
	Chrome Plated.....	106-4970	\$167.42
2. Tuned Intake Assembly, 2.19" Single Bore	Wrinkle Black.....	106-4966	\$260.94
	Chrome Plated.....	106-4967	\$271.38
3. Air Filter, with Clamp	Stainless Cap — Conical — 2 1/4" I.D. x 4"		
	Red (each).....	17-1020	\$54.00
	Blue (each).....	17-1023	\$54.00
4. Gasket, Intake — Adapter Plate	2.19" Single Bore Tuned Intake.....	17-1022	\$1.60
	Plate, Adapter, 2.19" Single Bore Tuned Intake		
5. Plate, Adapter, 2.19" Single Bore Tuned Intake	Chrome Steel.....	17-1014	\$46.63
	6. FHSC 1/4-20 x 5/8".....	50-0433	\$2.46
7. FHSC 5/16-18 x 5/8".....	50-0432	\$4.25	
	8. O-Ring, Adapter Plate Bracket		
9. Bracket Kit, 2.19" Single Bore Tuned Intake	3 3/8" O.D. x 3 1/2" I.D. 1/16 CS, Viton®.....	50-0446	\$2.36
	Super E/G, S&S V124 — Chromed.....	106-4973	\$313.14
10. Backplate Screw	Super E/G, 1984-'99 BT — Chromed.....	106-4974	\$313.14
	Single VFI, S&S V124 — Chromed.....	106-4976	\$313.14
11. Screw, 5/16-18 x 1 1/4, BHC, Chrome.....	Single VFI, 1984-'99 BT — Chromed.....	106-4977	\$313.14
	Stock carb, Delphi® EFI, 1984-'99 BT — Chromed.....	106-4978	\$313.14
12. Flat Washer 5/16" x 1/4" 6320, 70907-07, 6016, 6702.....	10. Backplate Screw		
	Screw, SHC, w/Threadlock, 1/4-20 x 1/2".....	106-2084	\$1.06
13. Hose, Breather, 1/4" I.D., 90°.....	10 pack.....	106-2105	\$6.83
	11. Screw, 5/16-18 x 1 1/4, BHC, Chrome.....	50-0309-S	\$4.76
14. Screw, Breather Fitting, 3/8-16 x 1 1/4".....	12. Flat Washer 5/16" x 1/4" 6320, 70907-07, 6016, 6702.....	50-7034	\$0.26
	13. Hose, Breather, 1/4" I.D., 90°.....	19-0178A	\$4.78
15. Washer, Flat, 3/8" x 1 3/16" x 1/16", Chrome.....	14. Screw, Breather Fitting, 3/8-16 x 1 1/4".....	50-0436	\$10.55
	15. Washer, Flat, 3/8" x 1 3/16" x 1/16", Chrome.....	50-7106-S	\$2.56
16. Screw, Breather Fitting, 1/2-13 x 1.25.....	16. Screw, Breather Fitting, 1/2-13 x 1.25.....	50-0435	\$10.55
	17. Shim Kit		
17. Shim Kit	a. 5/16" I.D. 1984-'92 BT.....	17-0314	\$9.28
	b. 1/2" I.D. 1993-'99 BT.....	17-0464	\$16.15
18. Enrichment Device, S&S Super E & G carbs (Use in place of enrichment device on air cleaner backplate).....	18. Enrichment Device, S&S Super E & G carbs (Use in place of enrichment device on air cleaner backplate).....	11-2084	\$24.04
	19. Gasket, Backplate — E/G/SBEFI.....	106-1724	\$1.57
19. Gasket, Backplate — E/G/SBEFI.....	10 pack.....	106-2328	\$13.87
	20. Gasket, S&S SBEFI 58mm.....	106-4662	\$3.10
20. Gasket, S&S SBEFI 58mm.....	21. Gasket, Stock carb/Throttle Body 29062-958.....	106-6022	\$1.46
	22. Hardware Kit, 1984-'99 — (N/S)		
21. Gasket, Stock carb/Throttle Body 29062-958.....	Stock Carb & S&S Single Bore EFI.....	17-5098	\$85.62
	S&S Super E or G Carb.....	17-5099	\$105.58
22. Hardware Kit, 1984-'99 — (N/S)	S&S 124 V-Series.....	500-0016	\$52.76
	23. Canister Purge Fitting Cap (each).....	50-8266-S	\$4.09
23. Canister Purge Fitting Cap (each).....	24. Breather Vent Hose.....	106-4982	\$7.87
	(N/S) = Not Shown		



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.

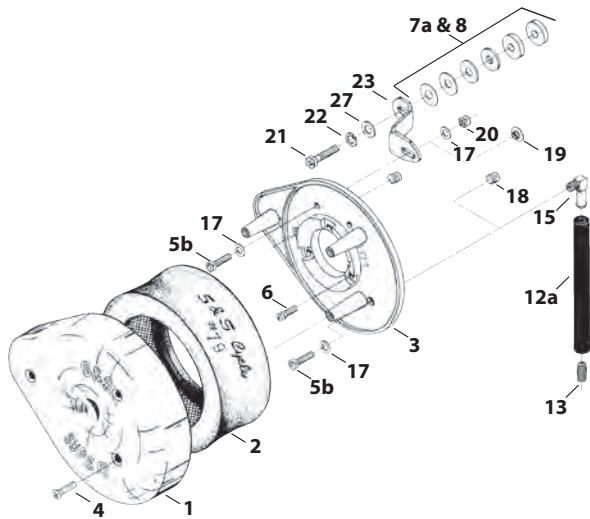
# AIR CLEANER REPLACEMENT PARTS FOR STOCK FUEL SYSTEMS

- |  |                   |          |  |
|--|-------------------|----------|--|
| 1. Air cleaner cover   |                   |          |  |
| Chrome .....   | <b>17-0078</b>    | \$156.31 |  |
| Black .....  | <b>17-0075</b>    | \$127.95 |  |
| 2. Element .....   | <b>17-0079</b>    | \$17.41  |  |
| 3. Backplate   |                   |          |  |
| BT 1966-'89 .....  | <b>106-0907</b>   | \$98.58  |  |
| BT 1993-up .....   | <b>17-0003</b>    | \$93.95  |  |
| 4. Cover screw 1305 (each) .....   | <b>50-0072</b>    | \$1.03   |  |
| 3 pack .....   | <b>50-1052</b>    | \$2.30   |  |
| 10 pack .....  | <b>50-0094</b>    | \$7.46   |  |
| Black 902 (each) .....   | <b>50-0310-S</b>  | \$3.31   |  |
| 3 pack .....   | <b>50-0310</b>    | \$9.65   |  |
| 5. Screw HHCS 1/4"-28 x 7/8" .....   | <b>50-0074</b>    | \$0.42   |  |
| 6. Backplate screw   |                   |          |  |
| Zinc Plated (each) .....   | <b>106-2084</b>   | \$1.06   |  |
| 10 pack .....  | <b>106-2105</b>   | \$6.83   |  |
| 7. Shim kit  |                   |          |  |
| a. BT 1966-'89 (Includes 2 each 5/16" x .018"; 5/16" x .030"; 5/16" x .048"; 5/16" x .105" and 4 each 5/16" x .125") ..... | <b>17-0314</b>    | \$9.28   |  |
| b. BT 1993-'99 (Includes 2 each 1/2" x .018"; 1/2" x .030"; 1/2" x .048"; 1/2" x .105"; and 4 each 1/2" x .125") .....     | <b>17-0464</b>    | \$16.15  |  |
| 8. Replacement shims   |                   |          |  |
| BT 1966-'89  |                   |          |  |
| a. 5/16" x .018" (each) .....  | <b>50-7038</b>    | \$1.05   |  |
| b. 5/16" x .030" (each) .....  | <b>50-7039</b>    | \$1.05   |  |
| c. 5/16" x .048" (each) .....  | <b>50-7040</b>    | \$1.05   |  |
| d. 5/16" x .105" (each) .....  | <b>50-7041</b>    | \$1.73   |  |
| e. 5/16" x .125" (each) .....  | <b>50-7042</b>    | \$1.68   |  |
| BT 1993-up   |                   |          |  |
| f. 1/2" x .018" (each) .....   | <b>50-7085</b>    | \$1.46   |  |
| g. 1/2" x .030" (each) .....   | <b>50-7086</b>    | \$0.57   |  |
| h. 1/2" x .048" (each) .....   | <b>50-7087</b>    | \$1.56   |  |
| i. 1/2" x .105" (each) .....   | <b>50-7089</b>    | \$1.57   |  |
| j. 1/2" x .125" (each) .....   | <b>50-7090</b>    | \$3.10   |  |
| BT 1999-up, All 2002-up EFI BT   |                   |          |  |
| k. 5/8" x .025" (each) .....   | <b>50-7113</b>    | \$1.05   |  |
| 10 pack .....  | <b>50-7110</b>    | \$6.00   |  |
| l. 5/8" x .050" (each) .....   | <b>50-7114</b>    | \$1.03   |  |
| 10 pack .....  | <b>50-7111</b>    | \$7.80   |  |
| m. 5/8" x .075" (each) .....   | <b>50-7115</b>    | \$1.11   |  |
| 10 pack .....  | <b>50-7112</b>    | \$10.83  |  |
| 9. Shim, head vent - .62" I.D. x .80" O.D. x .175"   |                   |          |  |
| 10. O-ring   |                   |          |  |
| a. (-.014), .500" ID x .625" OD, Nitrile (each) .....  | <b>50-8270</b>    | \$1.05   |  |
| 5 pack .....   | <b>50-8275</b>    | \$2.97   |  |
| b. (-.012), .375" ID x .500" OD, Viton® 11110 (each) .....   | <b>50-8006</b>    | \$1.05   |  |
| 10 pack .....  | <b>50-8077</b>    | \$6.79   |  |
| 11. Breather fitting (each) .....  | <b>17-0350</b>    | \$3.57   |  |
| 2 pack .....   | <b>17-0355</b>    | \$6.27   |  |
| 12. Crankcase breather vent hose   |                   |          |  |
| a. BT 1984-'92 .....   | <b>50-17-0113</b> | \$1.73   |  |
| b. BT 1993-'99 .....   | <b>50-17-0339</b> | \$6.35   |  |
| 13. Vent hose connector,   |                   |          |  |
| BT 1984-'92 .....  | <b>50-8111</b>    | \$0.68   |  |
| 14. Vent hose, with angle cut .....  | <b>17-0365</b>    | \$2.84   |  |
| 15. 90° Elbow fitting (each) .....   | <b>50-8110</b>    | \$11.66  |  |
| 16. Hose fitting .....   | <b>17-0336C-S</b> | \$6.00   |  |
| 17. Flatwasher, 1/4" 6194, 6245, 6703, 6736, 6228W, 6192   |                   |          |  |
| each .....   | <b>50-7021</b>    | \$1.08   |  |
| 18. Backplate plug, 1/8" -27 NPT 45830-48  |                   |          |  |
| each .....   | <b>50-8331</b>    | \$1.00   |  |
| 10 pack .....  | <b>50-1015</b>    | \$5.83   |  |
| 19. Plug, press-in clear plastic .....   | <b>50-8313</b>    | \$0.26   |  |
| 20. Support bracket locknut - 1/4"-28 x 7/8"   |                   |          |  |
| each .....   | <b>50-5010</b>    | \$1.08   |  |
| 21. Support bracket screw - 5/16"-18 x 1 1/4" .....  | <b>50-0110</b>    | \$0.47   |  |
| 22. Lockwasher, 5/16" .....  | <b>50-7032</b>    | \$0.26   |  |
| 23. Support bracket, Air cleaner to head   |                   |          |  |
| BT 1984-'99 .....  | <b>17-0311</b>    | \$28.27  |  |
| 24. Rubber tubing - 1/4" x 5/8" x 3' 63500-68 .....  | <b>19-0169A</b>   | \$8.95   |  |
| 25. Wire tie (N/S) .....   | <b>50-8003</b>    | \$0.10   |  |
| 26. Hardware kit, air cleaner mounting (N/S)   |                   |          |  |
| BT 1984-'99 .....  | <b>17-0244</b>    | \$20.95  |  |
| 27. Washer, flat - 3/8" x 7/8" x .146"   |                   |          |  |
| each .....   | <b>50-7053</b>    | \$3.02   |  |
| 28. Carb support bracket -   |                   |          |  |
| BT 1999-up & EFI Softail® 2001 .....   | <b>17-0308</b>    | \$6.05   |  |
| 29. Shim - 1/4" x 3/4" x .200" .....   | <b>50-7024</b>    | \$1.95   |  |
| 30. Screw vent fitting   |                   |          |  |
| a. BT 1993-'99 .....   | <b>17-0347</b>    | \$10.20  |  |
| b. BT 1999-up .....  | <b>17-0345</b>    | \$11.66  |  |
| 31. Screw air cleaner backplate .....  | <b>17-0346</b>    | \$4.04   |  |
| 32. Spring clamps (N/S) .....  | <b>50-8001</b>    | \$0.48   |  |
| 33. Breather cap screw .....   | <b>17-0338</b>    | \$7.25   |  |
| 34. Breather screw seal  |                   |          |  |
| a. BT 1993-'99, All 2002 EFI BT - Washer .520 (each) .....   | <b>50-7055</b>    | \$1.12   |  |
| 10 pack .....  | <b>50-7057</b>    | \$11.18  |  |
| b. BT 1999-up, All 2002 EFI BT - Washer .380 (each) .....  | <b>50-7054</b>    | \$1.12   |  |
| 10 pack .....  | <b>50-7059</b>    | \$11.18  |  |

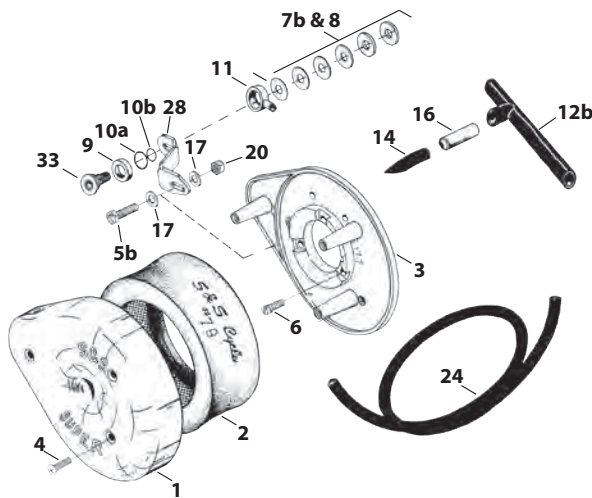
FI = fuel injected  
(N/S) = Not Shown

**CONTINUED ON NEXT PAGE**

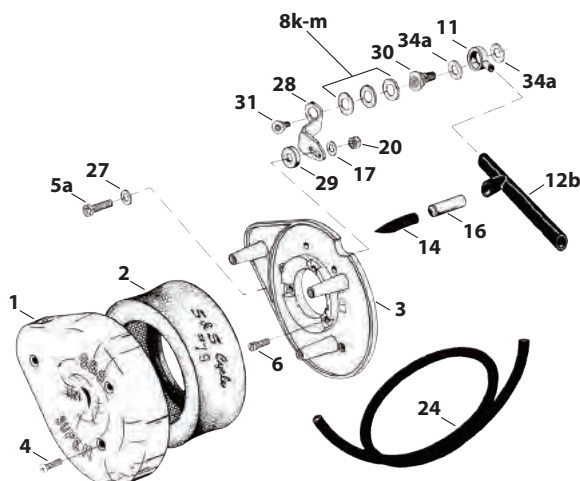
All reference to H-D® part numbers is for identification purposes only. We in no way are implying that any of S&S® Cycle's products are original equipment parts or that they are equivalent to the corresponding H-D part number shown.



**1984-'89 BIG TWIN  
(WITH BUTTERFLY CARBURETOR) 17-0108**



**1993-'99 BIG TWIN  
(WITH CV CARBURETOR) (OBSOLETE) 17-0100**




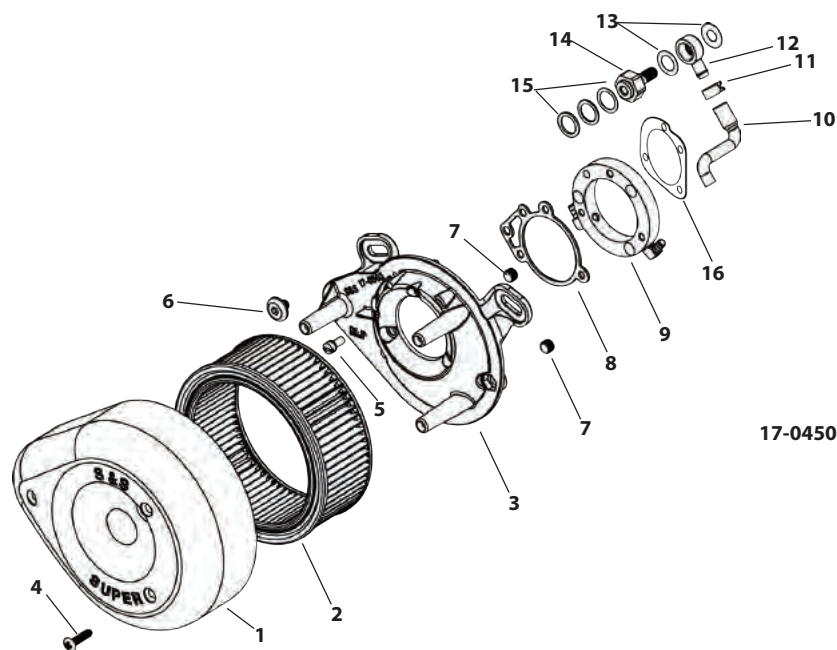
**1993-'06 CARBURETED BIG TWIN MODELS,  
2001 EFI SOFTAIL® MODELS, AND 2002-UP ALL EFI  
MODELS (EXCEPT 2006-UP DYNA®) (OBSOLETE)  
17-0117**

## CONTINUED

## AIR CLEANER REPLACEMENT PARTS FOR STOCK FUEL SYSTEMS



### 1993-UP (EXCEPT 2008-UP TOURING MODELS) BT STOCK CV AND DELPHI® SINGLE BORE EFI

1. Air cleaner cover			
Chrome	 <b>17-0378</b>	\$150.29	
Gloss Black	<b>170-0384A</b>	\$145.00	
Slasher	<b>17-0004</b>	\$150.29	
2. Element, pleated	<b>106-4722</b>	\$21.86	
3. Backplate			
1993-2007 BT	<b>106-0907</b>	\$98.58	
4. Cover screw 1305 (each)	<b>50-0072</b>	\$1.03	
3 pack	<b>50-1052</b>	\$2.30	
10 pack	<b>50-0094</b>	\$7.46	
Black 902 (each)	<b>50-0310-S</b>	\$3.31	
3 pack	<b>50-0310</b>	\$9.65	
5. Backplate screw			
Zinc Plated (each)	<b>106-2084</b>	\$1.06	
10 pack	<b>106-2105</b>	\$6.83	
6. Screw, air cleaner backplate	<b>17-0346</b>	\$4.04	
7. Backplate plug 1/8"-27 45830-48			
each	<b>50-8331</b>	\$1.00	
10 pack	<b>50-1015</b>	\$5.83	
8. Gasket, backplate (each)	<b>106-1724</b>	\$1.57	
10 pack	<b>106-2328</b>	\$13.87	
9. Adaptor assembly			
1993-'99 bt	<b>106-0881</b>	\$56.04	
10. Hose, vent, breather, formed,			
.250" x .375" x 1.825", 1993-'07 BT	<b>17-0364A</b>	\$4.84	
11. Clamp, spring, 3/16"	<b>50-8001</b>	\$0.48	
12. Banjo fitting (each)	<b>17-0350</b>	\$3.57	
2 pack	<b>17-0355</b>	\$6.27	
13. Washer, silicone coated steel			
1993-up BT, 1/2" (each)	<b>50-7055</b>	\$1.12	
10 pack	<b>50-7057</b>	\$11.18	
1999-up BT, 1/2" (each)	<b>50-7054</b>	\$1.12	
10 pack	<b>50-7059</b>	\$11.18	
14. Breather screw,			
1993-'98 BT	<b>106-0845</b>	\$21.38	
1999-up BT	<b>17-0348</b>	\$9.14	
15. Replacement shims			
5/8" x .025" (each)	<b>50-7113</b>	\$1.05	
10 pack	<b>50-7110</b>	\$6.00	
5/8" x .050" (each)	<b>50-7114</b>	\$1.03	
10 pack	<b>50-7111</b>	\$7.80	
5/8" x .075" (each)	<b>50-7115</b>	\$1.11	
10 pack	<b>50-7112</b>	\$10.83	
16. Backplate Gasket 29062-958	<b>106-6022</b>	\$1.46	

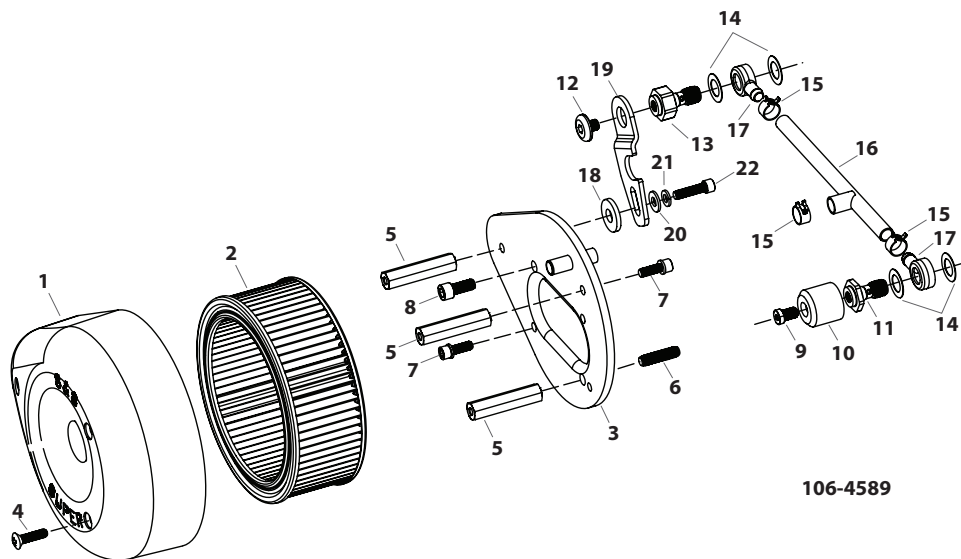


# CONTINUED AIR CLEANER REPLACEMENT PARTS FOR STOCK FUEL SYSTEMS

## REPLACEMENT PARTS FOR S&S AIR CLEANER FOR MAGNETI MARELLI® EFI 1995-'01 BIG TWIN

1. Cover	 <b>17-0378</b>	\$150.29	13. Screw, Breather, +.250" (Rear Head) 1995-'98, 1/2 -13 UNC	<b>106-0845</b>	\$21.38
2. Filter	<b>106-4722</b>	\$21.86	1999-'01	<b>17-0348</b>	\$9.14
3. Backplate, Assembly, Air Cleaner, Stock EFI, Magneti Marelli®, 1995-2001	N/A		14. Washer, flat, Nitrile Rubber Coated, Cold Rolled Steel 1995-'98, .520" x .880" x .024"		
4. Screw, PHIL/OH 1/4-20x1" 1305			each	<b>50-7055</b>	\$1.12
each	<b>50-0072</b>	\$1.03	10 pack	<b>50-7057</b>	\$11.18
3 pack	<b>50-1052</b>	\$2.30	1999-'01, .380" x .880" x .024"		
10 pack	<b>50-0094</b>	\$7.46	each	<b>50-7054</b>	\$1.12
5. Spacer, 1/2" Hex, Threaded	N/A		10 pack	<b>50-7059</b>	\$11.18
6. Stud, Fully Threaded, 1/4-20 x 1.25", Zinc Plated 1995-'98	N/A		15. Clamp Spring, 9/16"	<b>50-8001</b>	\$0.48
1999-'01	N/A		16. Hose, Vent Breather, Epichlorohydrin Polymer	 <b>17-0339</b>	\$6.35
7. SHCS, 1/4-20 x 3/4" SEMS (each)	<b>50-0066</b>	\$1.10	17. Banjo Fitting (each)	<b>17-0350</b>	\$3.57
8. Screw, SHCS, 1995-'98, 1/4-20 x 3/4", SEMS 4069A			2 pack	<b>17-0355</b>	\$6.27
each	<b>50-0067</b>	\$1.03	18. Spacer, .406" x .975" x .250" (each)	<b>50-7140-S</b>	\$5.41
12 pack	<b>50-0144</b>	\$7.50	19. Bracket, Support, Air Cleaner To Head Nickel Plated	<b>106-1285</b>	\$11.60
1999-'01, 5/16-18 x 3/4" 3275			20. Washer, Flat, .281" x .625" x .080", Zinc, Steel 6194, 6245, 6703, 6736, 6228W, 6192 (each)	<b>50-7021</b>	\$1.08
each	<b>50-0302-S</b>	\$1.06	21. Washer, Lock, .250" 7036, 7035	<b>50-7019</b>	\$0.26
9. Screw, LSHC 5/16-24, x 1/2" Stainless Steel Front Head	<b>106-2023</b>	\$4.68	22. Screw, SHCS, 1/4-20 x 1 1/4" 4740A, 3482A (each)	<b>50-0008</b>	\$1.06
10. Cover, Breather Screw, Front Head Chrome, Aluminum	<b>106-2022</b>	\$17.49			
11. Screw, Backplate Vent, Front Head 1995-'98, 1/2-13	<b>17-0347</b>	\$10.20			
1999-'01, 3/16-18	<b>17-0345</b>	\$11.66			
12. Screw, Backplate, Rear Head, Socket Panhead 5/16 - 24 x .360", Zinc, Alloy Steel	<b>17-0346</b>	\$4.04			






N/A = No longer available





# CLASSIC TEARDROP AIR CLEANER REPLACEMENT PARTS

## FOR S&S® SINGLE BORE EFI

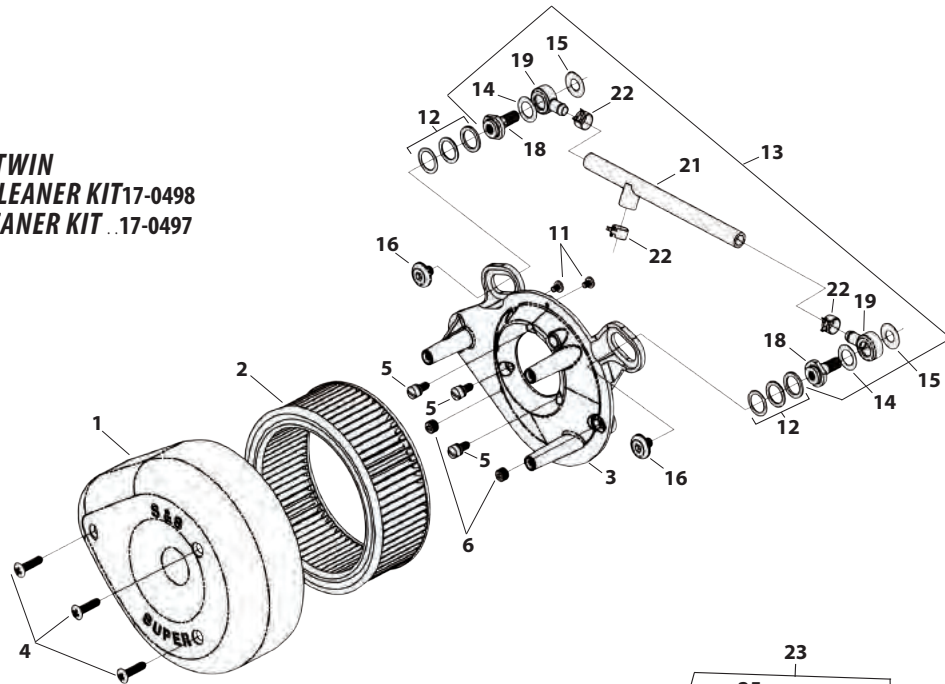
1. Air Cleaner Cover Slasher (slotted chrome) .....	17-0004	\$150.29	
Chrome .....	 17-0378	\$150.29	
Gloss Black (includes black screws) .....	170-0384A	\$145.00	
2. Element, pleated .....	106-4722	\$21.86	
3. Backplate SBFFI .....			
BT 1999-up .....	17-0120	\$76.53	
S&S 4-1/8" bore engines .....	17-0380	\$98.58	
4. Screw, oval 1/4-20 x 1 1/305 (each) .....	50-0072	\$1.03	
3 pack .....	50-1052	\$2.30	
10 pack .....	50-0094	\$7.46	
5. Backplate screw .....			
Zinc Plated (each) .....	106-2084	\$1.06	
10 pack .....	106-2105	\$6.83	
Black 902 (each) .....	50-0310-S	\$3.31	
3 pack .....	50-0310	\$9.65	
6. Pipe plug, 1/8, air cleaner backplate 45830-48 (each) .....	50-8331	\$1.00	
10 pack .....	50-1015	\$5.83	
7. Mounting bracket bolt, hex 5/16-18 x 1 1/4 .....	50-0110	\$0.47	
8. Flat washer, 5/16" x 1/16" 6320, 70907-07, 6016, 6702 .....	50-7034	\$0.26	
9. Shim, .850" x .325" x .400" .....	 50-7027	\$3.09	
10. Shim kit for 4 1/8" bore .....	17-0314	\$9.28	
Individual shims:			
5/16" x .018" (each) .....	50-7038	\$1.05	
5/16" x .030" (each) .....	50-7039	\$1.05	
5/16" x .048" (each) .....	 50-7040	\$1.05	
5/16" x .105" (each) .....	50-7041	\$1.73	
5/16" x .125" (each) .....	50-7042	\$1.68	
11. Screw, cable guide & air cleaner backplate .....			
10-24 x 1/4" (each) .....	50-0041	\$1.08	
10 pack .....	50-0062	\$3.74	
12. Shims, individual .....			
5/8 x 7/8 x .025 (each) .....	50-7113	\$1.05	
10 pack .....	50-7110	\$6.00	
5/8 x 7/8 x .050 (each) .....	50-7114	\$1.03	
10 pack .....	50-7111	\$7.80	
5/8 x 7/8 x .075 (each) .....	50-7115	\$1.11	
10 pack .....	50-7112	\$10.83	
13. Breather Hardware for 1999-up BT .....	17-0455	\$35.61	
(not included in air cleaner kit) .....			
14. Silicone washer, 1/2" ID (each) .....	50-7055	\$1.12	
10 pack .....	50-7057	\$11.18	
15. Silicone washer, 3/8" ID (each) .....	50-7054	\$1.12	
10 pack .....	50-7059	\$11.18	
16. Screw, wide head, 5/16-24 x .36 .....	17-0346	\$4.04	
17. Air cleaner hardware kit (N/S) .....			
BT 1999-up .....	17-0482	\$19.25	
S&S 4-1/8" bore engines .....	17-0481	\$23.52	
18. Breather vent fitting .....			
BT 1993-'99 .....	17-0347	\$10.20	
19. Breather fitting (each) .....	17-0350	\$3.57	
2 pack .....	17-0355	\$6.27	
20. Check Valve .....	 50-8122	\$7.46	
21. Hose, Vent Breather, Epichlorohydrin Polymer .....	17-0339	\$6.35	
22. Clamp Spring, 5/16" .....	50-8001	\$0.48	
23. Breather hardware for 4 1/8" bore .....	 50-8121	\$31.62	
(Not included in air cleaner kit) .....			
24. Clamp, Spring, .660" .....	50-8076-S	\$1.05	
25. Hose one .....	50-8263-S	\$7.29	
26. Hose two .....	50-8262-S	\$12.20	
27. Clamp, Spring, .440" .....	50-8143-S	\$0.47	
28. Hose, Cut To Size, 1875" x 6", Black, Rubber .....	50-8142AS	\$3.35	

(N/S) = Not Shown

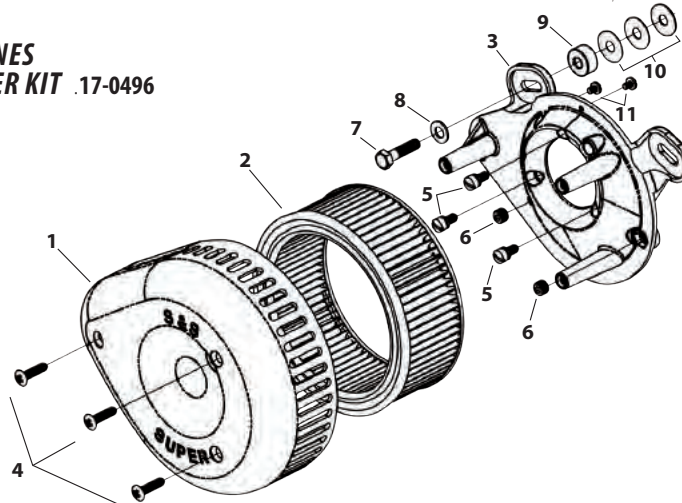
**NOTE**

Breather hardware not included in these air cleaner kits.

**1995½ - '99 BIG TWIN  
TEARDROP AIR CLEANER KIT 17-0498  
SLASHER AIR CLEANER KIT 17-0497**



**S&S 4½" BORE ENGINES  
SLASHER AIR CLEANER KIT 17-0496**

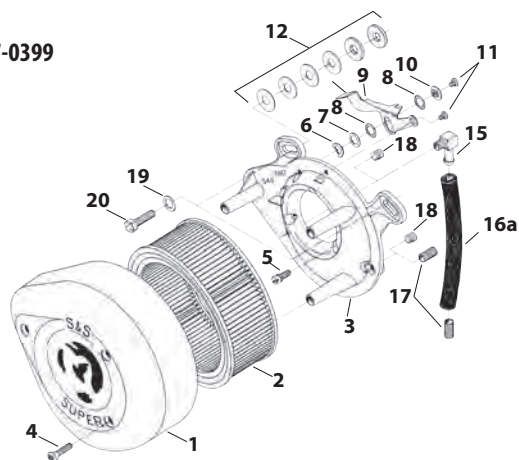


# SUPER E & G AIR CLEANERS REPLACEMENT PARTS FOR 1984-'99 BIG TWINS

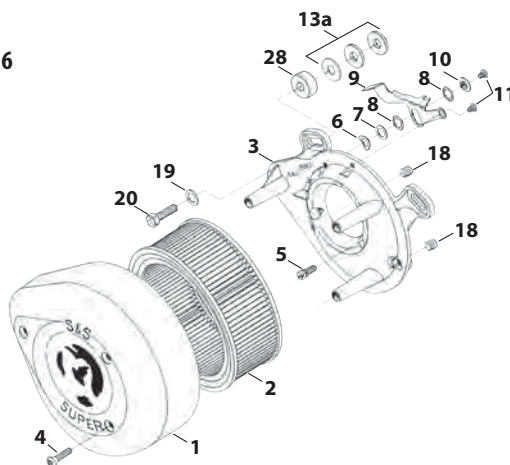
- |  |   |           |          |
|--|---|-----------|----------|
| 1. Air cleaner cover —   |   |           |          |
| Chrome   | TÜV <sub>2,7</sub>                              | 17-0378   | \$150.29 |
| Gloss Black  |   | 170-0384A | \$145.00 |
| Slasher  |   | 17-0004   | \$150.29 |
| 2. Element, pleated  |   | 106-4722  | \$21.86  |
| Element, pleated carbon  | TÜV <sub>1,2,3,7</sub>                          | 17-0375   | \$50.30  |
| 3. Backplate   |   |           |          |
| BT 1993-'99  | USA <sub>1,2</sub> TÜV <sub>4,5</sub>           | 17-0336   | \$98.58  |
| BT 1984-'92, S&S 4 1/8" bore Manufactured Prior to 1-1-03  |   | 17-0380   | \$98.58  |
| 4 1/8" Bore — Manufactured After 1-1-03  | USA <sub>3</sub> TÜV <sub>1,6,7</sub>           | 17-0387   | \$98.58  |
| 4. Cover screw 1305 (each)   |   | 50-0072   | \$1.03   |
| 3 pack   |   | 50-1052   | \$2.30   |
| 10 pack  |   | 50-0094   | \$7.46   |
| Black 902  |   | 50-0310-S | \$3.31   |
| 3 pack   |   | 50-0310   | \$9.65   |
| TÜV style (each)   | TÜV <sub>2</sub>                                | 50-0347-S | \$1.79   |
| 5. Backplate screw, Zinc (each)  |   | 106-2084  | \$1.06   |
| 10 pack  |   | 106-2105  | \$6.83   |
| 6. Fast idle friction washer (each)  |   | 50-7035   | \$1.03   |
| 10 pack  |   | 50-7058   | \$6.00   |
| 7. Fast idle steel washer (each)   |   | 50-7037   | \$1.08   |
| 10 pack  |   | 50-7061   | \$2.97   |
| 8. Fast idle nylon washer (each)   |   | 50-7036   | \$1.08   |
| 10 pack  |   | 50-7060   | \$2.97   |
| 9. Fast idle lever   | USA <sub>1,2,3</sub> TÜV <sub>1,3,4,5,6,7</sub> | 17-0329   | \$8.07   |
| 10. Fast idle brass washer (each)  |   | 50-7007   | \$1.15   |
| 10 pack  |   | 50-7010   | \$11.45  |
| 11. Fast idle lever screw (one required for current backplate) (each)  |   | 50-0041   | \$1.08   |
| 10 Pack  |   | 50-0062   | \$3.74   |
| 12. Shim kit   |   |           |          |
| BT 1984-'92  |   | 17-0314   | \$9.28   |
| (Includes two each 3/16" x .018", 3/16" x .030", 3/16" x .048", 3/16" x .105", and four each 5/16" x .125")  |   |           |          |
| BT 1993-'99  |   | 17-0464   | \$16.15  |
| (Includes two each 1/2" x .018", 1/2" x .030", 1/2" x .048", 1/2" x .105", and four each 1/2" x .125")       |   |           |          |
| 13. Shims  |   |           |          |
| a. BT 1984-'92, S&S 4 1/8" Bore  |   |           |          |
| 3/16" x .018" (each)   |   | 50-7038   | \$1.05   |
| 3/16" x .030" (each)   |   | 50-7039   | \$1.05   |
| 3/16" x .048" (each)   | USA <sub>1</sub>                                | 50-7040   | \$1.05   |
| 3/16" x .105" (each)   |   | 50-7041   | \$1.73   |
| 3/16" x .125" (each)   |   | 50-7042   | \$1.68   |
| b. BT 1993-'99   |   |           |          |
| 5/8" x .025" (each)  |   | 50-7113   | \$1.05   |
| 10 pack  |   | 50-7110   | \$6.00   |
| 5/8" x .050" (each)  |   | 50-7114   | \$1.03   |
| 10 pack  |   | 50-7111   | \$7.80   |
| 5/8" x .075" (each)  |   | 50-7115   | \$1.11   |
| 10 pack  |   | 50-7112   | \$10.83  |
| 14. Elbow fitting (each)   |   | 50-8110   | \$11.66  |
| 15. Breather fitting (each)  |   | 17-0350   | \$3.57   |
| 2 pack   |   | 17-0355   | \$6.27   |
| 16. Crankcase breather hose  |   |           |          |
| a. BT 1984-'92   | TÜV <sub>3</sub>                                | 17-0113   | \$1.73   |
| b. BT 1993-'99   | USA <sub>1,2</sub>                              | 17-0339   | \$6.35   |
| 17. Vent hose connector  |   | 50-8111   | \$0.68   |
| 18. Backplate plug 1/8"-27 45830-48 (each)   |   | 50-8331   | \$1.00   |
| 10 pack  |   | 50-1015   | \$5.83   |
| 19. Flatwasher — 5/16" x 1/16" 6320, 70907-07, 6016, 6702  |   | 50-7034   | \$0.26   |
| 20. Mounting bracket bolt — 5/16"-18 x 1 1/4" 1984-'92, S&S 4 1/8" Bore                                      |   | 50-0110   | \$0.47   |
| 21. Wire tie (N/S)   |   | 50-8003   | \$0.10   |
| 22. Hose clamp (N/S)   |   | 50-8002   | \$1.19   |
| 23. Air cleaner assembly   |   |           |          |
| Includes: Chrome cover, backplate, filter element, and hardware kit.   |   |           |          |
| BT 1984-'92  |   | 17-0399   | \$250.50 |
| BT 1993-'99  |   | 17-0404   | \$250.50 |
| BT 1984-'05, 4 1/8" Bore   |   | 17-0416   | \$250.50 |
| 24. Mounting hardware package (N/S)  |   |           |          |
| Includes all parts needed to install following style air cleaners:   |   |           |          |
| BT 1984-'92  |   | 17-0458   | \$45.94  |
| BT 1993-'99  |   | 17-0436   | \$50.96  |
| BT 1984-'05, 4 1/8" Bore   |   | 17-0460   | \$23.95  |
| 25. Screw vent fitting, BT 1993-'99  |   | 17-0347   | \$10.20  |
| 26. Screw, air cleaner to head   |   | 17-0346   | \$4.04   |
| 27. Washer, .520" silicone coated steel, BT 1993-'99 (each)  |   | 50-7055   | \$1.12   |
| 10 pack  |   | 50-7057   | \$11.18  |
| 28. Shim, .850" x .325" x .400"  |   |           |          |
| S&S 4 1/8" Bore  | TÜV <sub>1,7</sub>                              | 50-7027   | \$3.09   |
| 29. Spring clamps (N/S)  | USA <sub>1</sub>                                | 50-8001   | \$0.48   |
| 30. Thread insert 1/2"-13 to 3/16"-18 (N/S) (Used on 1992 big twins)   |   | 50-8151   | \$6.16   |
| 31. Breather conversion kit BT (N/S)   |   | 17-0486   | \$34.56  |
| Convert early S&S air cleaners for 1993-'99 BT with o-ring breather fittings to new style breather hardware. |   |           |          |

(N/S)= Not Shown

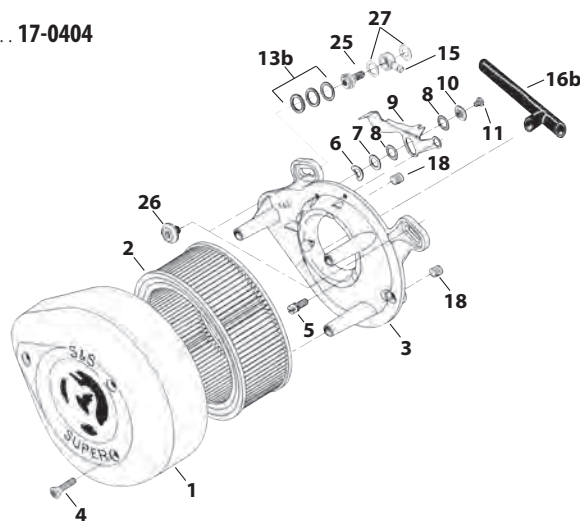
## 1984-'92 BIG TWIN ..... 17-0399



## 1984-'05 BIG TWIN 41/8" BORE ..... 17-0416

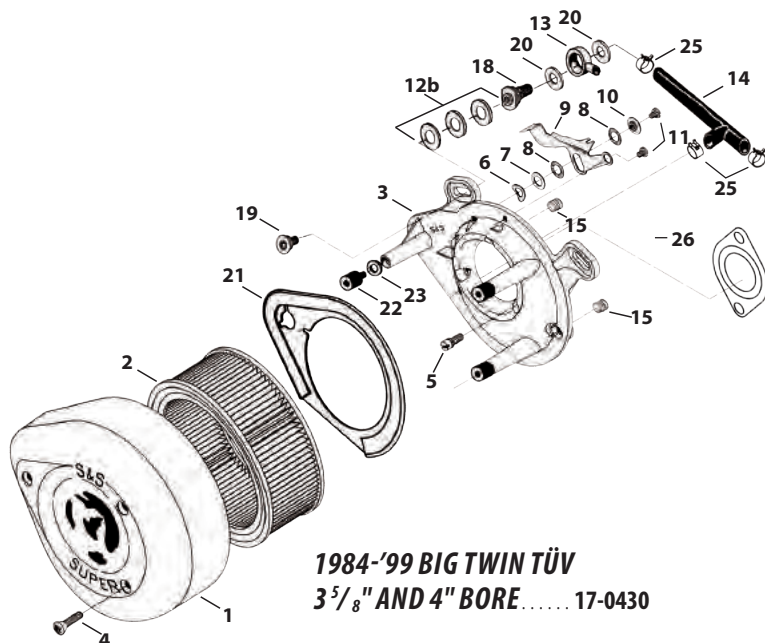


## 1993-'99 BIG TWIN ..... 17-0404

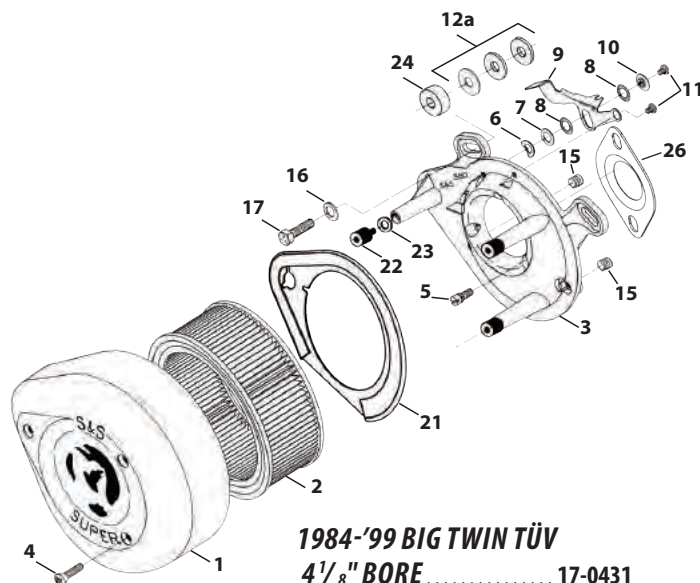


# TÜV APPROVED SUPER E & G AIR CLEANER REPLACEMENT PARTS

- |   |                           |           |          |
|---|---------------------------|-----------|----------|
| 1. Air cleaner cover                                      |                           |           |          |
| Chrome  | TÜV 2,7                   | 17-0378   | \$150.29 |
| 2. Element, pleated carbon - TÜV                          | TÜV 1,2,3,7               | 17-0375   | \$50.30  |
| 3. Backplate  |                           |           |          |
| TÜV 1984-'99 - 3 5/8" and 4" Bore                         |                           | 17-0388   | \$98.58  |
| TÜV S&S - 4 1/8" Bore                                     | TÜV 1,7                   | 17-0395   | \$98.58  |
| 4. Cover screw, TÜV style (each)                          | TÜV 5                     | 50-0347-S | \$1.79   |
| 5. Backplate screw  |                           |           |          |
| Zinc Plated (each)  |                           | 106-2084  | \$1.06   |
| 10 pack   |                           | 106-2105  | \$6.83   |
| Black 902 (each)  |                           | 50-0310-S | \$3.31   |
| 3 pack  |                           | 50-0310   | \$9.65   |
| 6. Fast idle friction washer (each)                       |                           | 50-7035   | \$1.03   |
| 10 pack   |                           | 50-7058   | \$6.00   |
| 7. Fast idle steel washer (each)                          |                           | 50-7037   | \$1.08   |
| 10 pack   |                           | 50-7061   | \$2.97   |
| 8. Fast idle nylon washer (each)                          |                           | 50-7036   | \$1.08   |
| 10 pack   |                           | 50-7060   | \$2.97   |
| 9. Fast idle lever  | USA 1,2,3 TÜV 1,3,4,5,6,7 | 17-0329   | \$8.07   |
| 10. Fast idle brass washer (each)                         |                           | 50-7007   | \$1.15   |
| 10 pack   |                           | 50-7010   | \$11.45  |
| 11. Fast idle lever screw (each)                          |                           | 50-0041   | \$1.08   |
| 10 Pack   |                           | 50-0062   | \$3.74   |
| 12. Shims   |                           |           |          |
| a. S&S 4 1/8" Bore  |                           |           |          |
| 5/16" x .018" (each)                                      |                           | 50-7038   | \$1.05   |
| 5/16" x .030" (each)                                      |                           | 50-7039   | \$1.05   |
| 5/16" x .048" (each)                                      | USA                       | 50-7040   | \$1.05   |
| b. 1984-'99 3 5/8" & 4" bore TÜV                          |                           |           |          |
| 5/8" x .025" (each)                                       |                           | 50-7113   | \$1.05   |
| 10 pack   |                           | 50-7110   | \$6.00   |
| 5/8" x .050" (each)                                       |                           | 50-7114   | \$1.03   |
| 10 pack   |                           | 50-7111   | \$7.80   |
| 5/8" x .075" (each)                                       |                           | 50-7115   | \$1.11   |
| 10 pack   |                           | 50-7112   | \$10.83  |
| 13. Breather fitting (each)                               |                           | 17-0350   | \$3.57   |
| 2 pack  |                           | 17-0355   | \$6.27   |
| 14. Crankcase breather hose                               |                           |           |          |
| TÜV 1984-up   | USA 1,2                   | 17-0339   | \$6.35   |
| 15. Backplate plug 1/8"-27 45830-48                       |                           |           |          |
| each  |                           | 50-8331   | \$1.00   |
| 10 pack   |                           | 50-1015   | \$5.83   |
| 16. Flatwasher - 5/16" x 1/16" 6320, 70907-07, 6016, 6702 |                           | 50-7034   | \$0.26   |
| 17. Mounting bracket bolt - S&S 4 1/8" Bore               |                           |           |          |
| 5/16"-18 x 1 1/4"   |                           | 50-0110   | \$0.47   |
| 18. Screw vent fitting - BT 1993-'99                      |                           | 17-0347   | \$10.20  |
| 19. Screw, air cleaner to head                            |                           | 17-0346   | \$4.04   |
| 20. Washer, silicone coated steel .520" -                 |                           |           |          |
| BT 1993-'99 (each)  |                           | 50-7055   | \$1.12   |
| 10 pack   |                           | 50-7057   | \$11.18  |
| 21. Plate, air cleaner noise reducer                      | TÜV 1,2,5                 | 17-0389   | \$48.20  |
| 22. Rubber isolator mounts (each)                         | TÜV 5                     | 50-8510-S | \$7.24   |
| 23. Shim, spacers, 1/2" OD x 1/4" ID x .080" (each)       |                           | 50-7971-S | \$1.88   |
| 24. Shim, .850" x .325" x .400" - S&S 4 1/8" Bore         | USA 3 TÜV 1,7             | 50-7027   | \$3.09   |
| 25. Spring clamp  |                           | 50-8001   | \$0.48   |
| 26. Restrictor Plate                                      |                           | 16-0489   | \$24.07  |



**1984-'99 BIG TWIN TÜV  
3 5/8" AND 4" BORE..... 17-0430**



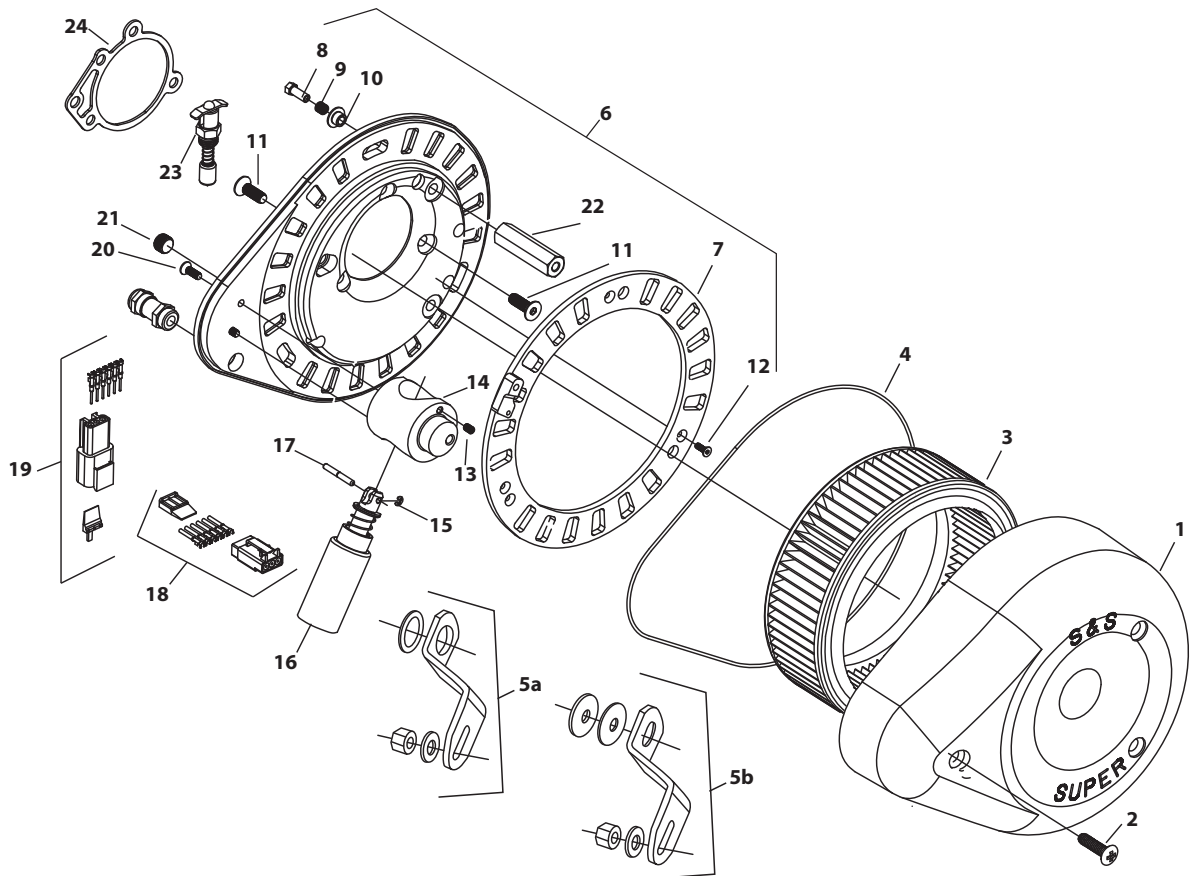
**1984-'99 BIG TWIN TÜV  
4 1/8" BORE..... 17-0431**



# CARB EXEMPT AIR CLEANER REPLACEMENT PARTS FOR S&S SUPER E OR G CARBS


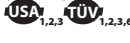
- |  |                  |          |
|--|------------------|----------|
| 1. Cover, air cleaner teardrop, chrome.....                        | <b>17-0378</b>   | \$150.29 |
| 2. Screw, phil/oval head ¼ - 20 x 1 1305 (each).....               | <b>50-0072</b>   | \$1.03   |
| 3 pack.....  | <b>50-1052</b>   | \$2.30   |
| 10 pack.....   | <b>50-0094</b>   | \$7.46   |
| 3. Filter, air, sealed air cleaner.....                            | <b>106-1451</b>  | \$61.16  |
| 4. O-ring, 7.613" x 7.753" x .070" Viton®.....                     | <b>N/A</b>       |          |
| 5. Bracket Kit, head to backplate.....                             | <b>106-5209</b>  | \$14.57  |
| a. V96, V100, V113.....  |                  |          |
| Includes:  |                  |          |
| Bracket, V96, V100, V113.....                                      | <b>17-0308</b>   | \$6.05   |
| Washer, Flat, .281" x .625" x .080", Zinc, Steel                   |                  |          |
| 6194, 6245, 6703, 6736, 6228W, 6192 (each).....                    | <b>50-7021</b>   | \$1.08   |
| Shim, .625" x .880" x .050", Stainless Steel (each).....           | <b>50-7114</b>   | \$1.03   |
| 10 pack.....   | <b>50-7111</b>   | \$7.80   |
| Nut, Lock, HH, Gr5, ¼-20.....                                      | <b>N/A</b>       |          |
| b. V111, V117, V124.....   | <b>106-5210</b>  | \$94.71  |
| Includes:  |                  |          |
| Bracket, V111, V117, V124.....                                     | <b>17-0311</b>   | \$28.27  |
| Washer, Flat, .281" x .625" x .080", Zinc, Steel                   |                  |          |
| 6194, 6245, 6703, 6736, 6228W, 6192 (each).....                    | <b>50-7021</b>   | \$1.08   |
| Shim, .325" x 1" x .048", Stainless Steel.....                     | <b>50-7040</b>   | \$1.05   |
| Shim, .325" x 1" x .105", Stainless Steel.....                     | <b>50-7041</b>   | \$1.73   |
| Nut, Lock, HH, Gr5, ¼-20.....                                      | <b>N/A</b>       |          |
| 6. Backplate Assembly (Backplate assembly includes #7-22) ...      | <b>106-1450</b>  | \$443.64 |
| 7. Valve assembly, backplate, sealed air cleaner.....              | <b>N/A</b>       |          |
| 8. Pin, guide, stainless (each).....                               | <b>17-0086</b>   | \$9.60   |
| 9. Spring, 5.2 lb/in .24" OD x .208" ID x .25 stainless (each).... | <b>50-0489</b>   | \$8.66   |
| 10. Washer, flat with .18" step .192" x .500" x .030" (each)....   | <b>106-5772</b>  | \$7.29   |
| 11. Screw, FHSC, ¼-20 x ¾" zinc (each).....                        | <b>50-0491</b>   | \$1.05   |
| 12. Screw, FHSC 5-40 x ¾" stainless (each).....                    | <b>106-1098</b>  | \$1.05   |
| 13. Screw, SHS set cup point, 8-32 x ¼" stainless (each).....      | <b>106-1648</b>  | \$1.36   |
| 14. Housing, solenoid, aluminum.....                               | <b>N/A</b>       |          |
| 15. Retaining ring, external E-type ¾ shaft stainless.....         | <b>106-3391</b>  | \$1.11   |
| 16. Solenoid assembly, pull dual coil 12v.....                     | <b>N/A</b>       |          |
| 17. Pin, dowel, grooved .094" x 1" stainless.....                  | <b>106-3275</b>  | \$13.35  |
| 18. Connector, kit, style DTM, 3-position male.....                | <b>106-2595</b>  | \$13.67  |
| 19. Connector, kit, style DTM, 3-position female.....              | <b>N/A</b>       |          |
| 20. Screw, FHSC, 8-32 x ½", stainless 1601 (each).....             | <b>50-0353-S</b> | \$1.05   |
| 21. Plug, SH pipe, ¼-27, NPT, zinc 45830-48 (each).....            | <b>50-8331</b>   | \$1.00   |
| 10 pack.....   | <b>50-1015</b>   | \$5.83   |
| 22. Stand-off.....   | <b>N/A</b>       |          |
| 23. Enrichment device.....   | <b>11-2084</b>   | \$24.04  |
| 24. Gasket, backplate (each).....                                  | <b>106-1724</b>  | \$1.57   |
| 10 pack.....   | <b>106-2328</b>  | \$13.87  |

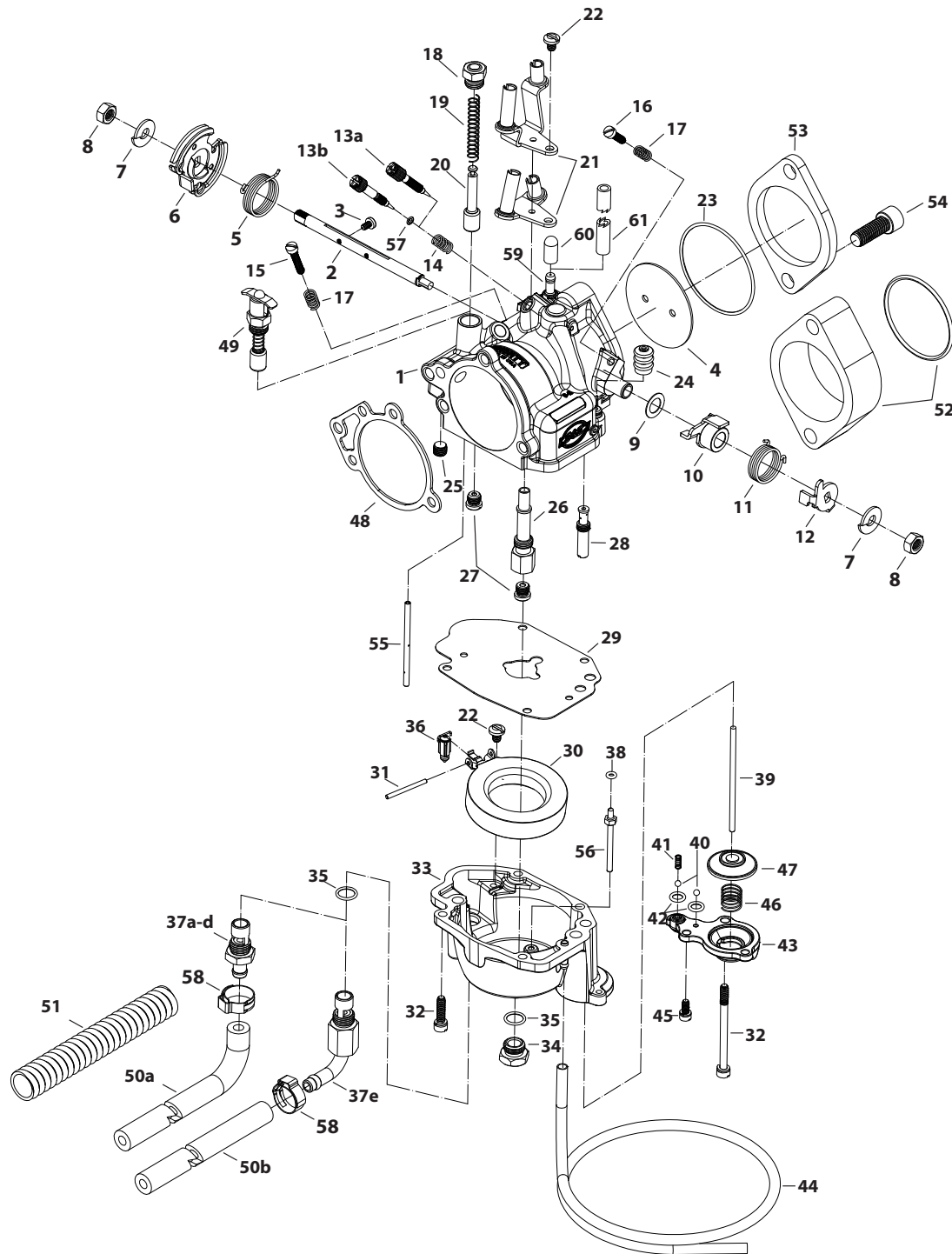
N/A = No longer available



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.

# SUPER E & G CARBURETOR REPLACEMENT PARTS

1. Carb body assembly			
1 7/8" Super E.....	11-2381	\$239.02	
2 1/4" Super G.....	11-2391	\$239.02	
2. Throttle shaft			
1 7/8" Super E — Includes two plate screws.....	11-2383	\$22.08	
2 1/4" Super G — Includes two plate screws.....	11-2483	\$20.94	
3. Throttle plate screw 11-2045- (two required) (each).....	50-0055-S	\$1.08	
10 pack.....	50-0064	\$8.41	
4. Throttle plate			
1 7/8" Super E.....	11-2055	\$70.45	
2 1/4" Super G.....	11-2355	\$75.11	
5. Throttle return spring (each).....	11-2382	\$1.41	
5 pack.....	11-3502	\$6.35	
6. Throttle spool.....	11-2385	\$16.83	
7. Throttle shaft lock washer (two required).....	50-7031	\$1.06	
10 pack.....	50-7073	\$3.20	
8. Throttle shaft nut (two required) (each).....	11-2350	\$1.41	
5 pack.....	11-2363	\$6.35	
9. Throttle shaft nylon washer (each).....	50-7050	\$1.06	
10 pack.....	50-7072	\$6.19	
10. Pump actuator lever.....	11-2376	\$6.98	
11. Actuator spring (each).....	11-2375-S	\$1.41	
5 pack.....	11-3501	\$6.35	
12. Pump actuator arm.....	11-2377	\$2.89	
13. Idle mixture screw			
a. Idle mixture screw, brass (each).....	11-2354	\$8.77	
5 pack.....	11-2378	\$39.81	
b. Idle mixture screw only			
each.....	110-0003	\$70.45	
5 pack.....	110-0069	\$52.40	
Idle mixture screw w/ 500-0036 o-ring			
each.....	110-0068	\$11.50	
5 pack.....	110-0069	\$52.40	
14. Idle mixture screw spring (each).....	11-2052	\$1.05	
10 Pack.....	11-2060	\$6.76	
15. Idle speed screw (each).....	50-0038	\$1.08	
10 Pack.....	50-0150	\$7.29	
16. Pump adjustment screw (each).....	50-0039	\$1.08	
10 Pack.....	50-0146	\$4.78	
17. Idle speed/pump adjuster spring (each).....	11-2048	\$1.06	
10 pack.....	11-2053	\$6.19	
18. Plunger nut (each).....	11-2344	\$2.68	
5 Pack.....	11-2372	\$12.23	
19. Plunger spring (each).....	11-2340	\$1.11	
10 Pack.....	11-2359	\$9.81	
20. Fast idle plunger.....	11-2343	\$12.23	
21. Cable guide assembly with screw			
Use with butterfly style cables.....	11-2339P	\$16.76	
Use with constant velocity style cables.....	11-2338P	\$16.03	
22. Cable clamp/float pin screw (each).....	50-0041	\$1.08	
10 Pack.....	50-0062	\$3.74	
23. O-ring			
1 7/8" Super E (each).....	50-8016	\$1.05	
10 Pack.....	50-8094	\$9.94	
2 1/4" Super G (each).....	50-8015	\$1.06	
10 pack.....	50-8093	\$9.31	
24. Bellows seal (each).....	11-2266	\$3.82	
5 Pack.....	11-2279	\$17.41	
25. Bowl vent plug (each).....	50-0105	\$1.03	
10 pack.....	50-0151	\$5.83	
26. Main discharge tube.....	11-2085	\$11.02	
27. Main jet — See PAGE 243			
28. Intermediate Jets — See PAGE 243			
Series #94 fits all Super 1 7/8", 2 1/4" 2 1/4" gas carburetors.			
29. Bowl gasket (each).....	11-2386	\$2.78	
10 pack.....	11-2387	\$25.12	
30. Float.....	11-2187	\$20.36	
31. Float pin (each).....	11-2369	\$1.41	
5 Pack.....	11-2370	\$6.35	
32. Bowl screw			
10-24 x 3/4" — Three required (each).....	50-0034	\$1.46	
10 Pack.....	50-0063	\$13.62	
10-24 x 2 3/8" — One required (each).....	50-0040	\$1.05	
10 Pack.....	50-0061	\$8.64	
33. Carb bowl (only).....	11-2388	\$74.43	
Carb bowl complete assembly.....	11-2388P	\$163.85	
34. Bowl plug (each).....	11-2090	\$2.42	
5 pack.....	11-2092	\$11.02	
35. Seat o-ring* (required with part #11-2465 & #11-2466 only when replaces 360° style fuel inlet.)			
each.....	50-8009	\$1.25	
10 pack.....	50-8095	\$12.40	
36. Needle			
1 7/8" Super E & 2 1/4" Super G.....	11-2195	\$12.23	
Racing only.....	11-2197	\$50.30	
37. Seat — Includes O-ring #35			
(Replaces obsolete seats 11-2347 and 11-2348)			
a. 1 7/8" E & 2 1/4" G (Uses part #11-2195 needle).....	11-2465	\$12.23	
b. Racing only (Uses part #11-2197 needle).....	11-2466	\$11.75	
c. Racing only - threaded fuel inlet (6AN .157" ID)			
(Uses part #11-2195 needle).....	11-2395	\$31.43	
d. Racing only - threaded fuel inlet — (6AN .235" ID)			
(Uses part #11-2197 needle).....	11-2396	\$29.95	
e. Permeation Compliant fuel inlet seat Super E or G.			
(Uses part #11-2195 needle).....	106-2011	\$23.42	
38. Ejector nozzle o-ring (each).....	50-8011	\$1.05	
10 Pack.....	50-8096	\$8.64	
39. Pump pushrod (each).....	11-2373	\$5.07	
5 Pack.....	11-2393	\$23.02	
40. Ball check — (two required) (each).....	50-8090	\$1.06	
10 pack.....	50-8125	\$4.94	
41. Ball check spring (each).....	11-2374	\$1.91	
5 Pack.....	11-2392	\$8.71	
42. Pump cap o-ring — (two required) (each).....	50-8012	\$1.09	
10 Pack.....	50-8100	\$10.49	
43. Pump cap assembly.....	11-2389	\$25.12	
44. Overflow hose per 24" 27369-76 (each).....	19-0262-S	\$4.95	
5 Pack.....	19-0263	\$24.63	
45. Pump cap screw 8-32 — (two required) (each).....	50-0042	\$1.03	
10 Pack.....	50-0098	\$4.94	
46. Diaphragm spring (each).....	11-2275	\$1.05	
10 pack.....	11-2278	\$6.97	
47. Diaphragm.....	11-2282	\$14.48	
48. Gasket, backplate (each).....	106-1724	\$1.57	
10 pack.....	106-2328	\$13.87	
49. Enrichment device (Use with air horn only).....	11-2084	\$24.04	
50. Fuel line With 90° bend* 19"			
a. Fuel line With 90° bend* 19" (Use with part #11-2465 or #11-2466)			
 .....	N/A		
b. Permeation Compliant straight, 311" x .563" x 17.5"			
(Use with part #106-2011, 90° seat).....	190-0001	\$6.44	
51. Fuel line insulator — 12"  .....	19-0172	\$14.57	
52. Spacer, Kit, w/ O-ring			
1 7/8" x 1".....	16-0057*	\$56.42	
2 1/4" x 1".....	16-0357*	\$64.42	
2 1/4" x 1".....	16-0157*	\$62.89	
* Use with 1" Spacer Block.....	16-0058	\$96.86	
53. Insulator Block, Manifold, Super E, w/ O-ring			
1 7/8" x 1/4".....	16-0491	\$26.23	
1 7/8" x 3/8".....	16-0497	\$26.23	
2 1/4" x 1/4".....	16-0492	\$26.23	
2 1/4" x 3/8".....	16-0498	\$26.23	
2 1/4" x 1/4".....	16-0499	\$28.84	



<b>54. Screw</b>		
1" x 3/8" -16 (each) .....	<b>50-0161</b>	\$1.06
1 1/4" x 3/8" -16 (each) .....	<b>50-0162</b>	\$1.03
10 pack .....	<b>50-0177</b>	\$9.03
1 3/8" x 3/8" -16 (each) .....	<b>50-0163</b>	\$2.10
5 pack .....	<b>50-0178</b>	\$10.21
2" x 3/8" -16 (each) .....	<b>50-0164</b>	\$2.74
5 pack .....	<b>50-0185</b>	\$13.25
<b>55. Tube, Fast Idle Pick-Up, Super E/G, 125" x 2.350", Brass .....</b>	<b>0381F</b>	\$4.60
<b>56. Tube, Ejector Nozzle, Super E/G, Flared, Brass. ....</b>	<b>106-6124</b>	\$8.67
<b>57. O-ring, 3mm x 5mm x 1mm (each) .....</b>	<b>500-0036</b>	\$1.05
10 pack .....	<b>500-0148</b>	\$6.66
<b>58. Clamp, 5/8" - 7/8" .....</b>	<b>50-8002</b>	\$1.19
<b>59. Hose, Fitting straight, .040" .....</b>	<b>16-0134</b>	\$2.04
<b>60. VOES Fitting Cap .....</b>	<b>50-8372</b>	\$1.33
<b>61. VOES/Oil Return Hose .....</b>	<b>19-0395</b>	\$2.40

*\*360° banjo style fuel inlet fitting used on early S&S E&G carbs is no longer available. Replace with one of the inlet/seat fittings listed under #37 on this page. We highly recommend inlet/seat #106-2011.*

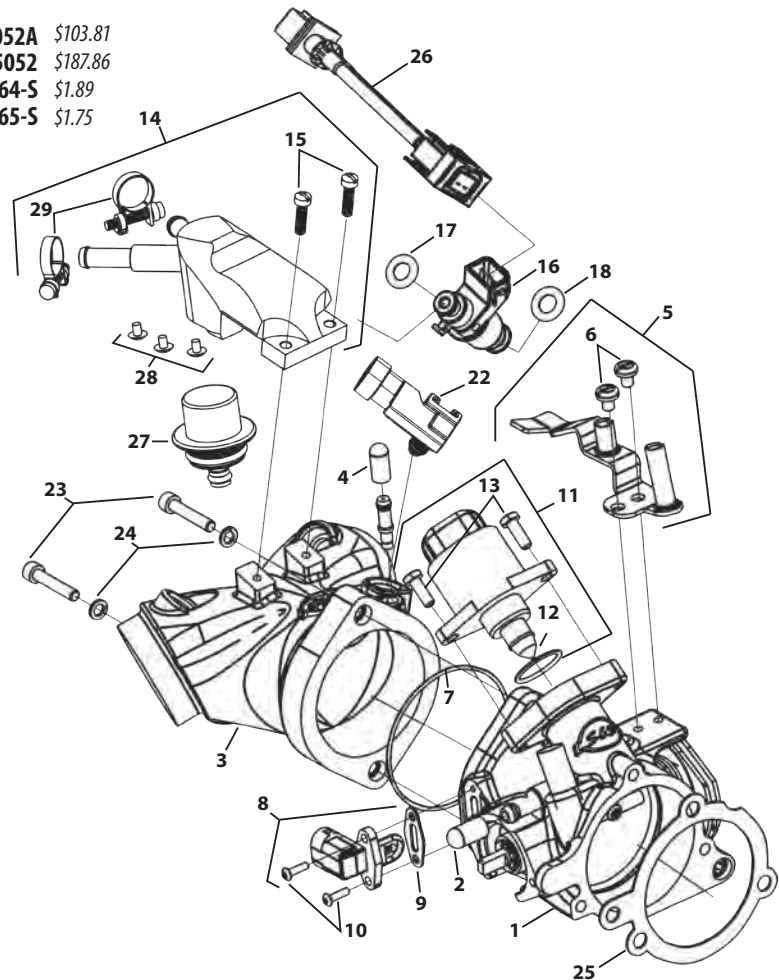
## CARBURETOR REBUILD KITS PAGE 243

# SINGLE BORE EFI THROTTLE BODY AND RELATED REPLACEMENT PARTS

1. Throttle body 52mm 1995-'99.....	16-5101	\$347.61
58mm 1995-'99.....	106-3954	\$255.74
2. Cap, canister purge (each).....	50-8266-S	\$4.09
3. Manifold (See PAGE 239)		
4. Cap, rubber, manifold, fitting.....	50-8372	\$1.33
5. Throttle cable guide packet with hardware.....	55-5084	\$21.77
6. Screw, cable guide & air cleaner backplate (each).....	50-0041	\$1.08
10 pack.....	50-0062	\$3.74
7. O-ring, throttle body to manifold.....	50-7967-S	\$0.47
8. Intake air temperature sensor packet with hardware 27270-95.....	55-5041	\$15.21
9. Gasket, IAT.....	16-5009-S	\$3.15
10. Screw, M3, IAT.....	50-0357-S	\$0.58
11. Idle air control motor SS EFI packet with hardware - 1995-'99 27628-01, 27628-01A.....	55-5085	\$90.18
12. O-ring, IAC.....	50-8149-S	\$0.74
13. Screw, 10-24, IAC, 1995-'99 each.....	50-0356-S	\$1.05
14. Fuel rail kit 1995-'99 (Fuel inlet tube included) (N/S).....	16-5207	\$179.51
15. Screw, rail, 1995-'99 (each).....	50-0039	\$1.08
10 pack.....	50-0146	\$4.78
16. Fuel injector 1 pack.....	55-5052A	\$103.81
2 pack.....	55-5052	\$187.86
17. O-ring, injector top, black.....	50-8264-S	\$1.89
18. O-ring, injector bottom, orange.....	50-8265-S	\$1.75

20. Screw, TP sensor & fuel rail (each).....	50-0358-S	\$1.05
23. Screw, throttle body to manifold (each).....	50-0359-S	\$1.03
24. Washer, lock, .200" x .334" x .047", Stainless Steel Throttle body to manifold.....	50-7000	\$0.26
25. Gasket, backplate 52mm (each).....	106-1724	\$1.57
10 pack.....	106-2328	\$13.87
58mm (each).....	106-4662	\$3.10
26. Harness, injector adapter kit, 1995-'99.....	55-5074	\$14.57
27. Pressure regulator, 1995-'99.....	16-5297	\$40.49
28. Screw, pressure regulator, 6-32 x 3/16", 1995-'99.....	50-0279-S	\$0.68
29. Clamps, Hose, 1/2" diameter, smooth, 1995-'99.....	50-8352	\$2.10
30. Plug, assembly, MAP sensor hole, 1995-'99 (N/S).....	50-8350	\$9.59
31. O-ring, MAP plug, 1995-'99 (N/S) (each).....	50-8133-S	\$1.05

(N/S)= Not Shown



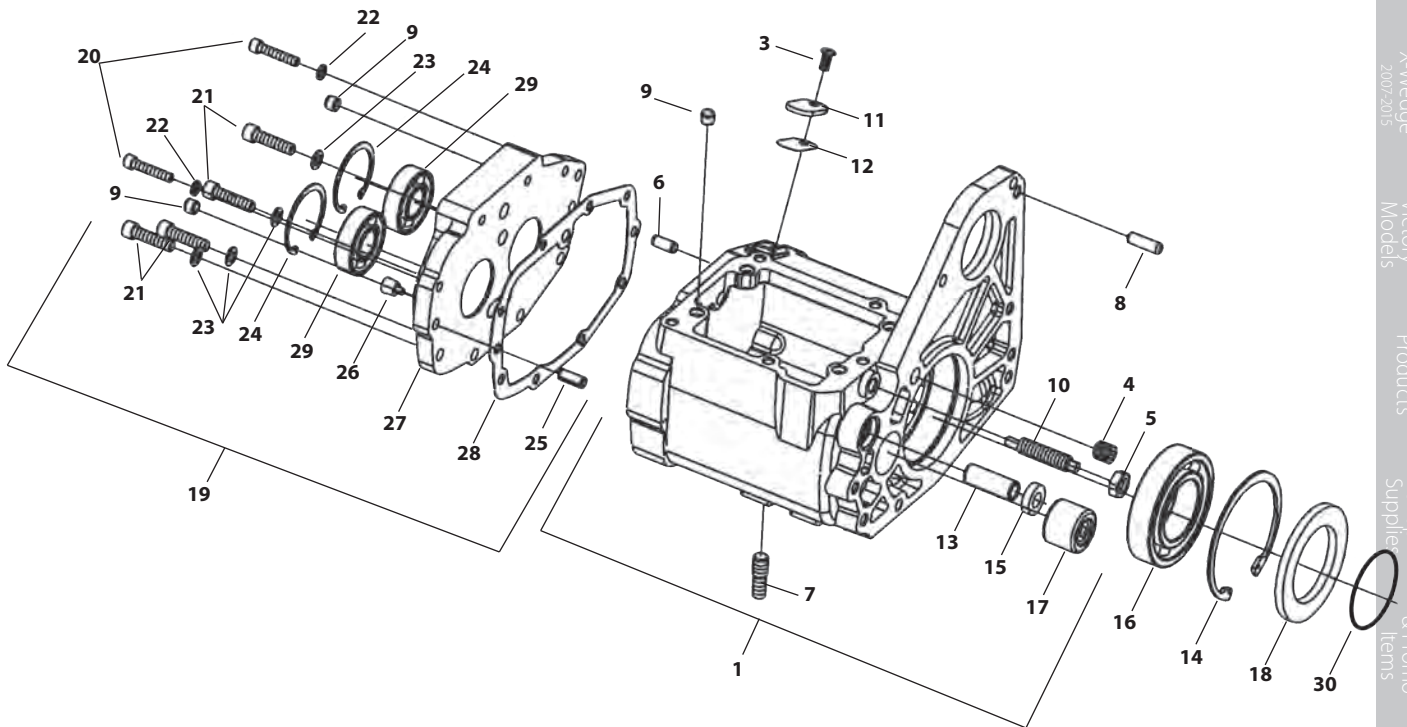
All reference to H-D® part numbers is for identification purposes only. We in no way are implying that any of S&S® Cycle's products are original equipment parts or that they are equivalent to the corresponding H-D part number shown.



# TRANSMISSION CASES REPLACEMENT PARTS FOR 1986-'99 SOFTAIL® MODELS

1. Transmission case assembly, 5-speed, rigid mount  
1986-'99 Harley-Davidson® Softail® ..... **560-0032** \$508.95
2. Case only ..... **N/A**
3. Screw, socket buttonhead, 1/4"-20 x 1/2" ..... **50-0065** \$1.46
4. Set-screw, sockethead, 1/2"-20 x 1/2"  
(H-D® #3784) ..... **50-0203** \$6.95
5. Nut, hex head, 7/16"-14 (each) ..... **50-5044** \$1.03
6. Pin, dowel, .308" diameter x .70" 375 ..... **50-8029** \$1.73
7. Stud, 3/8"-24, 7/16"-14 x 1.300" 11733A ..... **50-8084** \$4.33
8. Pin, dowel, 5/16" diameter x 1" 337 ..... **50-8171** \$1.73
9. Pin, roll, 3/8" x .300" 609 ..... **50-8173** \$1.73
10. Screw, shift lever adjustment  
33119-79B ..... **56-1002** \$27.42
11. Cover, speedo sensor hole ..... **56-1061** \$1.73
12. Gasket, speedo sensor hole cover ..... **N/A**
13. Guide, shifter shaft, 5-speed rigid mount  
1986-'99 BT 33114-79 ..... **56-1067** \$6.35
14. Ring, internal retaining, 3.734" O.D. x .109" tru-arc  
11161, 11599 ..... **50-8051** \$10.20
15. Seal, oil - 1984-'99 BT (H-D® #12045) ..... **56-1064** \$4.95
16. Bearing, transmission output shaft, 1984-'99 BT  
8996A ..... **56-1280** \$57.08
17. Bearing, transmission countershaft 8977 ..... **56-3031** \$23.31
18. Seal, oil 12067B ..... **56-3033** \$11.02

19. Door assembly, transmission access, 5-speed  
1986-'99 BT ..... **56-1027** \$271.15
20. Capscrew, sockethead 1/4"-20 x 1 1/4" 4740A, 3482A  
each ..... **50-0008** \$1.06  
10 pack ..... **50-0153** \$3.20
21. Capscrew, SH 5/16"-18 x 1 1/4" 3210A ..... **50-0121** \$0.57
22. Washer, flat - 1/4" x 7/16" x 1/16" (each) ..... **50-7017** \$1.03  
12 pack ..... **50-7013** \$6.16
23. Washer, flat - 5/16" x .545" x .042" (each) ..... **50-7026** \$1.03  
10 pack ..... **50-7028** \$4.85
24. Ring, internal retaining, 2.072" O.D. x .062"  
Tru-Arc 35021-89 ..... **50-8053** \$2.55
25. Pin, roll - 5/16" x 3/4" 634 (each) ..... **50-8175** \$1.03  
10 pack ..... **106-3175** \$6.45
26. Plug, magnetic - 1/8" -27739A ..... **50-8334** \$5.83
27. Door, transmission access 35258-87C  
Only 5-speed rigid mount 1986-'99 BT ..... **56-1025** \$223.24
28. Gasket, transmission access door  
35652-79B, 35653-98A ..... **56-1026** \$2.30
29. Bearing, transmission access door 8992A, 8998 ..... **56-3026** \$26.23
30. O-ring, Quad Seal 11165 ..... **50-8045** \$6.19

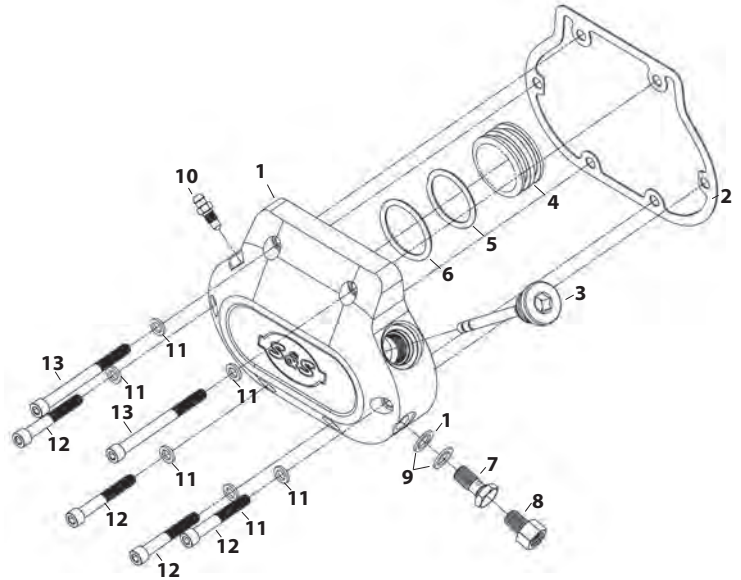


All reference to H-D® part numbers is for identification purposes only. We in no way are implying that any of S&S® Cycle's products are original equipment parts or that they are equivalent to the corresponding H-D part number shown.



# CHROME PLATED BILLET TRANSMISSION SIDE COVER REPLACEMENT PARTS

1. Hydraulic Clutch Side Cover (Chrome Billet) .....	N/A
Cable Actuated (Chrome Billet) .....	N/A
2. Gasket Side Cover (H-D®35652-76B, 36801-87C) (each) .....	N/A
3. Dipstick Assembly .....	N/A
4. Piston, Hydraulic Clutch (Billet) .....	N/A
5. O-ring, 1 1/4 ID x 1/8 CS, Buna-N 70 (each) .....	N/A
6. O-ring, 1 1/4 ID x 1/8 CS, Viton .....	N/A
7. Banjo Bolt 3/8-24 x 3/4 .....	N/A
8. Adapter, Hydraulic Clutch Line .....	N/A
9. Crush Washer, Copper .400 ID x .590 OD x .050 .....	N/A
10. Valve, Bleed Fitting, 1/4-28 .....	N/A
11. Washer, Flat .260 x .420 x .06 Chrome .....	50-7017 \$1.03
12 pack .....	50-7013 \$6.16
12. Screw, Cap Hex SH 1/4-20 UNC x 1.75 Zinc (H-D®#3480A, 891, 4810) .....	N/A
13. Screw, Cap Hex SH 1/4-20 UNC x 2.75 Zinc .....	N/A



# HIGH PERFORMANCE CLUTCH REPLACEMENT PARTS

1. Race, inner primary bearing, 5/6 speed main shaft All 1991-'05 BT and 2006 Harley-Davidson® Softail® models .....	USA 56-5089 \$58.29
2. Basket, Clutch, 36-tooth .....	USA N/A
Clutch, 37-tooth .....	USA N/A
3. Bearing, clutch (basket to hub) .....	USA N/A
4. Hub, clutch .....	USA N/A
5. Washer, thrust, 19.5 mm I.D. x 35.6 mm O.D. ....	N/A
6. Nut, mainshaft, clutch hub, 3/4-18 UNS-2B .....	N/A
(Recommended early style mainshaft nut H-D® #37496-84)	
(Recommended late style mainshaft nut H-D® #37496-90)	
7. Plate, pressure - clutch Mechanical (3-piece pushrod actuated) .....	USA N/A
8. Spring, pressure plate, clutch Light duty, 334 lbs. (6 pack) .....	USA N/A
Standard, 370 lbs. ....	USA N/A
Heavy duty, 408 lbs. (each) .....	USA 56-5106-S \$14.37
6 pack .....	USA 56-5106 \$84.09
9. Nut, flange, M10 x 1.25" .....	USA N/A
10. Screw, clutch adjuster, M10 x 1.25" .....	USA N/A
11. Bolt, special, M6 x 30, w/washer .....	USA 50-8413-S \$5.70
12. Jutter spring with seat .....	USA N/A
13. Clutch pack, 11 frictions, 10 steels .....	USA 56-5085-S \$277.95
14. Kit, shim, clutch inner race .....	USA 56-5090 \$32.95
Shim, 5/6 speed main shaft	
1.300" O.D. x .960" I.D. x .0075" (36 gauge) thick .....	USA N/A
1.300" O.D. x .960" I.D. x .0150" (28 gauge) thick .....	USA N/A
1.300" O.D. x .960" I.D. x .0240" (24 gauge) thick .....	USA N/A
1.300" O.D. x .960" I.D. x .0470" (18 gauge) thick .....	USA N/A

