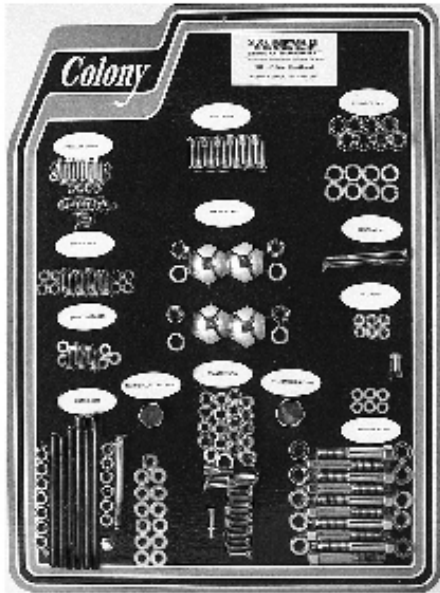


# Section 1A

## Shovel-Pan-Knuckle Motor Parts



### OEM Style Hardware Kits

Each kit contains all the stock engine nuts, bolts, washers and studs for your engine. Includes primary cover screws, lifter base screws, circuit breaker screws, case studs and nuts, timing plug, cam cover screws, cylinder base nuts and washers, oil pump nuts and bolts, transmission side cover nuts and washers, transmission top screws, transmission fill plug, generator screws, head bolts and washers. All hardware meets or exceeds original Harley specifications.

Chrome	Cad	Years
-	5226	40-47 Knucklehead
130	5227	48-57 Panhead
131	5228	58-65 Panhead
132	5233	66-69 Shovelhead

Andrews .....	41, 42, 45, 54, 65
Big Bore, Shovel .....	50-54
Breathers .....	31-32
Cams .....	41-43
Cam Covers	
BT 1936-69 .....	28-30
BT 1970-on .....	34-37
XL 1957-85 .....	37-40
Case Hardware .....	3-4
Crank Pins.....	23-24
Cylinders .....	32-40
Flywheel .....	24
Jims .....	6, 25, 27, 31, 32, 46, 48, 49
Knucklehead .....	91-94
Lifter .....	48-49
Motor & Case .....	2
Oil Pump .....	6-15
Pistons/ Rings .....	52-54, 58-61
Pushrods/ Covers .....	62-67
Rods/Components .....	26-27
S&S .....	2,6,7,20, 23, 26-32, 43, 46, 50-54, 56
Shafts .....	25
Valves & Guides & Springs .....	68-76
Wiseco .....	58-59

# Motor and Cases

All Motors & Cases warranted direct by manufacturer only

V-Twin engines offered by Preston Cycle are on a special order basis only.



## V-TWIN 74" Replica Pan Motors

- Cases and replica style heads with stock exhaust ports
- 1948-54 style features plumber intake manifold
- 1955-64 style has an o-ring intake manifold

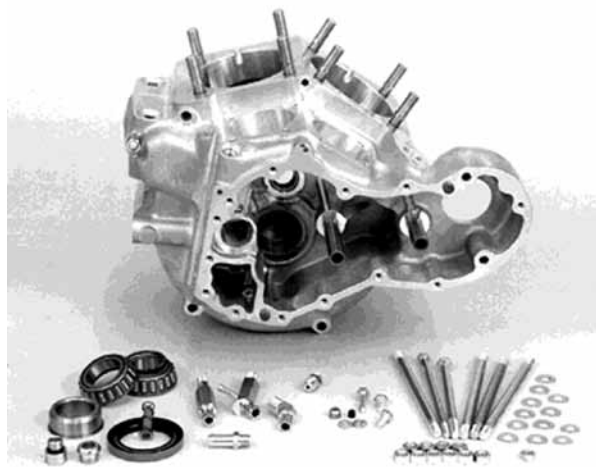
Chrome	Alloy	Application
99102	99103	1948-54
99104	99105	1955-61



## S&S Super Stock Alternator Style Crankcase

- Compatible with '70-on stock 8-1/2" flywheels, primary cover, and gearcovers
- Cleared for 38 amp stators
- Pre-cleared for strokes up to 5"
- Uses 1981-84 style oil pump
- Complete with bearings and installation hardware
- Natural finish

PCP	Bore	Application
310003	Standard	BT 1970-84
310004	3-5/8" BB	



## S&S Super Stock Generator Style Crankcase

- For late style two brush generator with 5/16" mounting bolts
- Pre-cleared for strokes up to 5"
- Uses 1936-69 style oil pump
- Features Timken sprocket shaft bearing in all years and 1958-on pinion bearings (will not accept 1957 and earlier flywheel assemblies)
- Natural finish

PCP	Bore	Fitment	Description
310006	Stock	1936-47 Knucklehead	Motor mounts are machined for stock 1936-47 frames. Machined for 1955-64 tin primary. Uses 1/4-24 hardware.
310008	Stock	1948-64 Panhead	Machined for 1948-65 Panhead cylinder base oil feed. Machined for 1955-64 tin primary.
310010	Stock	1965-69 Panhead or Shovelhead	Includes primary scavenge port machining. Machined for 1965-69 alloy primary.

# Motor Case Hardware



## Crankcase Breather Assembly

Assembly includes chrome mounting base with 5/16" inlet, one-piece filter molded to a chrome end cap and a hose clamp. The hose clamp holds the filter to the base when the vent hose is installed.

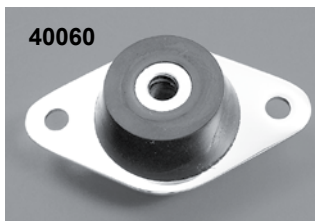
- 77101** Complete assembly
- 4634** Replacement filter only (no chrome)  
2" diameter x 1/2" height



## Engine Skid Plate

Engine skid plates protect engine cases from road hazards. Ribbed for added strength.

Chrome	Stainless Steel	Application	Replaces
3847	5477	1936-84 BT 4 Speed	24490-36
4903		1982-88 FXR	



## FLT-FXR Front Motor Mounts

Replaces front bottom engine mounts for rubber mounted engines. Fits 1979-08 FLT 5 speeds and 1982-94 FXR models. Replaces 16207-79B

- | PCP          | Description   |
|--------------|---|
| <b>40021</b> | Black   |
| <b>40060</b> | Sifton with anti-vibration polyurethane compound            |
| <b>40022</b> | Chrome  |
| <b>30056</b> | Velva-Ride, black finish with anti-vibration compound       |
| <b>21000</b> | Front bracket FLT 1980-06, FXR 1984-94 and 1999 (47159-79A) |



## Limiter Kit

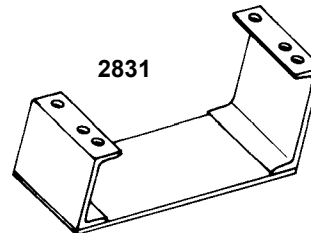
Dampen extreme movement on front motor mount cushion for FLT 1980-01 and FXR 1982-94.  
**40116**



## Stabilizer Linkages

Features a steel body with a urethane dampening plunger which together acts as a mini-shock absorber.

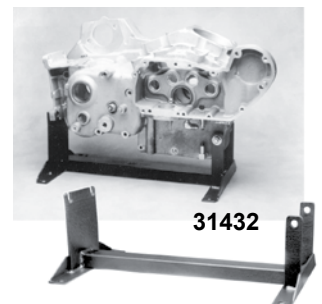
PCP	Fitment	Finish	OEM
<b>40019</b>	FLT 79-08 upper/lower FXR 82-94 upper/lower FXD 91-94 upper	Chrome	16219-79B
<b>40020</b>	FXD 95-13 upper	Zinc	16258-95A
<b>40063</b>	FXD 95-13 upper	Chrome	16258-95B
<b>40054</b>	FLT 79-08	Chrome	



## Engine Stand

Perfect for Harley Engine repair.

- | PCP          | Application      |
|--------------|------------------|
| <b>2831</b>  | Big Twin pre EVO |
| <b>31432</b> | Sportster 57-on  |



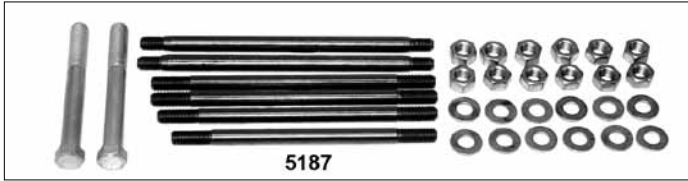
## Big Twin Motor Mount Shims

Fit on front and rear 1936-99.

- | PCP          | Thickness     |
|--------------|---------------|
| <b>13514</b> | .036 (5 pack) |
| <b>13515</b> | .048 (5 pack) |



# Motor Case Hardware



## Colony Big Twin Complete Motor Case Kits

Kits contain all the necessary hardware to bolt together the Harley motor cases. Each kit is packaged for the specific application. There are no universal "fits all" kits.

Year	Acorn Chrome	Stock Chrome	Stock Cad
1936-39	5178	1673	5179
1940-47	5180	1715	5181
1948-64	-	1716	5183
1965-69	-	1752	5185
1970-78	5186	1784	5187
1979-95	5188	1804	5189



## Cylinder Base Studs

Heat treated studs with interference threads. 8 Pack.

PCP	Application	Replaces
5472	1930-77 BT	16831-30
5473	1978-84 BT	16837-78
5474	1954-85 K and XL	16830-54, 16830-72
72367	1929-57 45's	16830-29



## Colony BT Motor Mount Kits

Complete upper and lower mount kits feature heat treated bolts, nuts and washers.

Year	Chrome	Cad
1936-69	2156	5199
1970-84	5396	5397

## Colony BT Motor Mount Kits

Heat treated chrome fastener kits with custom flanged acorn nuts and heavy duty washers.

Top	Lower	Application
1777	1776	1936-84 BT

## Colony Lower Motor Mount Kit

Stock replacement cad plated mounting kit for Big Twins 1930-1936 and all 45's.

5415



## BT Left Side Engine Case Seals

PCP	Years	Application	OEM	Brand	U/M
11820	40-54	61, 74, 80	24776-40		Ea
1754	36-54	BT	24776-40	Colony	Kit
1753	55-68	BT	24031-55	Colony	Ea
14084	Seal only for OEM# 24031-55				Ea
14085	1969	BT	24031-69		Ea
14016	70-99	74, 80 BT	12026B		5 Pk
79067	70-99	74, 80 BT	12026B	James	5 Pk

Note: PCP# 1753, #1754 are a screw-in insert with integral seal. PCP# 11820 includes seal, spacer and snap ring.



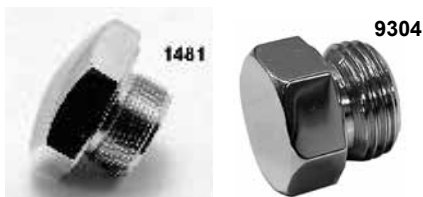
## Cylinder Head Motor Brace Mounting Kit

Accurately reproduced studs, nuts, and washers used to mount motor brace to cylinder head.

Application	Parkerized	Cad
1948-65 Panhead	72368	72369
1966-84 Shovelhead	-	72370

# Plugs

## Colony Timing Plugs



### Hex Style

- 7/8" Hex head
- Fits 1938-51 all models

Chrome	Cad	Replaces
9502	9503	2326-38

### Hex Style

- 3/4" Hex head with 5/8-18 thread
- Fits 1952-69 FL, XL

Chrome	Cad	Replaces
1481	8115	704

### Oversize Hex Style

- 3/4" Hex head with 11/16-16 threads

Chrome	Cad	Parkerized
9304	9404	9714

### 1936-39 Stock Hex Style

- 5/8-18 thread
- 1936-39 BT timing plug
- 1926-40 45 transmission fill plug
- All H-D 5/8-18 oil tank drain holes

Chrome	Cad	Parkerized	Replaces
3591	5282	5283	2326-26



### Allen Style

- Fits 1970-on all H-D

Chrome	Cad	Thread	Replaces
9402	9403	5/8-18	720
9960		11/16-16	



### Acorn Style for Timing & Oil Tank

Chrome	Thread
1690	5/18-18
1759	Oversize 11/16 x 16
1758	Oversize plug and tap kit



### Cap Style for Timing & Oil Tank

Chrome	Thread	Application
2896	5/8-18	Fits BT and XL
5258	1/2-20	BT 81-on

## Colony Drain Plugs



### Motor Case Drain Plugs

Reproduction of OEM 453-11 and 700. part fits most Fits 1911-70 BT case and 1968-84 oil pump body.

Chrome	Cad	Parkerized	Thread
5172	1553	9675	3/8-24



### Motor Case Drain Plugs

- Includes gasket
- Fits 1981-89 BT oil tank

Chrome	Thread
5258	1/2-20



### Domed Hex Style Drain Plug

- For use when cases are apart
- For 1965-on BT, 1967-on XL

Chrome	Thread
1761	9/16-18
1760	Oversize plug and tap kit

# BT Oil Pump



## S&S "Ultimate Oiling" Oil Pump Kits

- Complete Oil Pump Kits for Big Twin
- Designed to upgrade the oiling systems in pre 1981 engines
- Provides adequate oil volume to operate hydraulic lifters
- Converts the engine to pump RPM ration from 5:1 to 4:1
- Crankcase modifications required in most installations

PCP	Year	Application
316263*	48-53	Oil Pump Kit
316271	36-91	S&S Oil Pump Gasket Kit

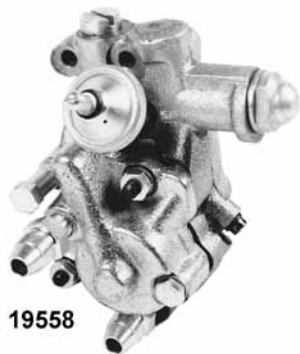
\* Limited to existing inventory

## Jims Flow Pro 1 Billet Oil Pump Assembly

- CNC machined polished billet aluminum oil pump body
- Increases oil return scavenge volume over stock pumps
- Increases horsepower by decreasing drag on the flywheels and other rotating parts
- Feed and return gears individually matched to each body
- Choice of end cover for custom or stock oil line connection
- No provisions for front or rear chain oiling.
- Available for late 1973-91 BT 74" to 140" motors.
- 1981-on bolts on with no modifications

PCP	Application	Description
31159	BT 1973-91	Oil pump body only
31165	BT 1973-91	With top feed and return
31167	BT 1973-91	With bottom feed and return

Note: 1973-80 cases will require a simple drilling for oil drain hole. Use Jims #2286 drilling tool



## V-Twin Replica Style BT Oil Pump 1941-49

Includes cast outer cover without rotator.  
19558

## BT Complete Cast Iron Oil Pump Assembly

Fits 1950-67 BT and replaces 26201-48D.  
19249

## V-Twin Oil Pump Assembly

- Improved oil pump pressure regulation for correct oiling
  - V-Twin engines 1936-on
  - Can be used with either chain drive or belt drive models
- Kit includes all necessary fittings, snap rings, keys, gaskets and mounting bolts.

Pump	With Breather	Year	Finish
30061	59560	36-53	Polished
30062	59561	36-53	Chrome
30061	59562	54-72	Polished
30062	59563	54-72	Chrome
30063		73-91	Polished
30064		73-91	Chrome

Note: On 1970-80 models a drilling operation is required. Use PCP #530013 drill.

# S&S BT Oil Pumps

## S&S Standard Billet Oil Pump Assemblies and Kits

Stock 1965-72 engines equipped with H-D oil pumps use different primary chain oiling methods than 1973-on engines. To convert an engine from this year group to 1973-on primary chain oiling method, an S&S oil pump kit #316202 or #316203 can be used in conjunction with a 1973-on breather gear.

**Note: Standard covers are like OEM and Universal Custom covers feature top and bottom feeds.**



### S&S Standard Billet Oil Pump Assembly

Oil pump only kit includes supply gears, return gears, drive shaft, drive shaft keys, drive shaft snap rings, check ball, check ball spring, pressure valve, pressure valve spring, cover screws with o-rings, miscellaneous hose fittings, plugs, screws, paper gaskets, and mounting hardware with both early style 1/4"-24 and late style 1/4"-20 mounting bolts

PCP	Year	Description
316200	36-69	Requires 1973-77 breather gear
316203	73-84	With universal cover
316060	36-72	Custom cover only



### S&S Oil Pump Assembly and Gear Kit

Oil pump assembly with drive gear, breather gear and shims.

PCP	Year	Description
316292	48-53	Polished
316293	54-69	Polished
316294	73-77	Polished
316295	78-84	Polished

**Note:** Kit # 316294 for 1970-77 and kit # 316295 for 1977-91 contain the same oil pump assembly. The difference between the kits is the pitch diameter of the breather gears provided. These gears match the pitch diameter of the pinion and cam gears in their respective year group. Therefore, if a late pinion and cam gear are used in an early engine, #316295 should be used to insure correct fit between cam and breather gear. The plugging and drilling steps required for the specific year crankcases used still apply regardless of which pump is used.

### Caution:

Incorrect gear fit causes binding and premature wear or damage to gears which may also result in damage to other engine components.



### S&S Oil Pump Assembly with Improved Oiling

Precise and automatic chain oiling, eliminates potential damage to the primary chain or dry clutch. Positive crankcase pressure provides an oil mist from the flywheel cavity through a metering hole in the breather valve gear like the stock 1973-84 systems.

PCP	Year	Description
316248*	65-69	Oil pump assembly with drive gear, breather gear, shims and upgraded oiling
316297*	70-72	

\* Limited to existing inventory

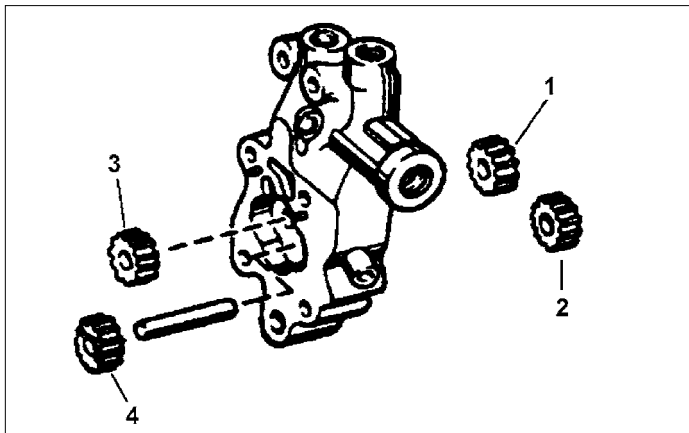


### S&S Oil Pump Assembly with Custom Cover

PCP	Year	Description
316245*	48-53	Oil pump assembly with drive gear, breather gear, shims and custom cover.
316246*	65-69	

\* Limited to existing inventory

# BT Oil Pumps



## BT Oil Pump Gears

Item	PCP	Year	Application	OEM
1	30095	48-61	Feed	26315-48
2	30096	48-61	Idler feed	26317-48
	30097	62-67	Idler feed	26317-62
3	30098	36-62	Scavenger	26320-36
4	30099	49-62	Scavenger idler	26325-49
	30102	62-99	Scavenger idler	26326-62A



**Oil Pump Drive Gear Kit**  
6T High flow pinion shaft oil pump drive gear for 1939-40 EL, 1941-53 FL OHV.  
**30115**



**Oil Pump Gear Set**  
Overdrive oil pump gear set includes 24T drive gear and a pinion shaft drive gear. Stock ratio for Shovelhead and Evolution models. Doubles the oil pump speed on Panhead. Fits FL and FX 1973-84.  
**30117**



**Jims Oil Pump Shaft Kit BT**  
1968-99  
**31193**



**Jims Oil Pump Drive Shaft**  
31190 BT 1968-on (26346-70)



**Jims Oil Pump Drive Gear**  
Precision machined and heat treated billet steel gear.  
**31350** 24T BT 1954-91 (26345-73)

## Oil Pump Repair Kits

PCP	Application
15420	BT 1936-67
15421	BT 1968-69
15422	BT 1970-on

## Chrome Oil Pump Covers for BT

- Designed to bolt-on to stock aluminum oil pumps
- Easy installation on right side of the motorcycle
- Fit all Big Twins from 1968-91 Dyna Glide™

PCP	Application
45030	Models with a primary chain oiler fitting
45031	Models without a primary chain oiler fitting



45030



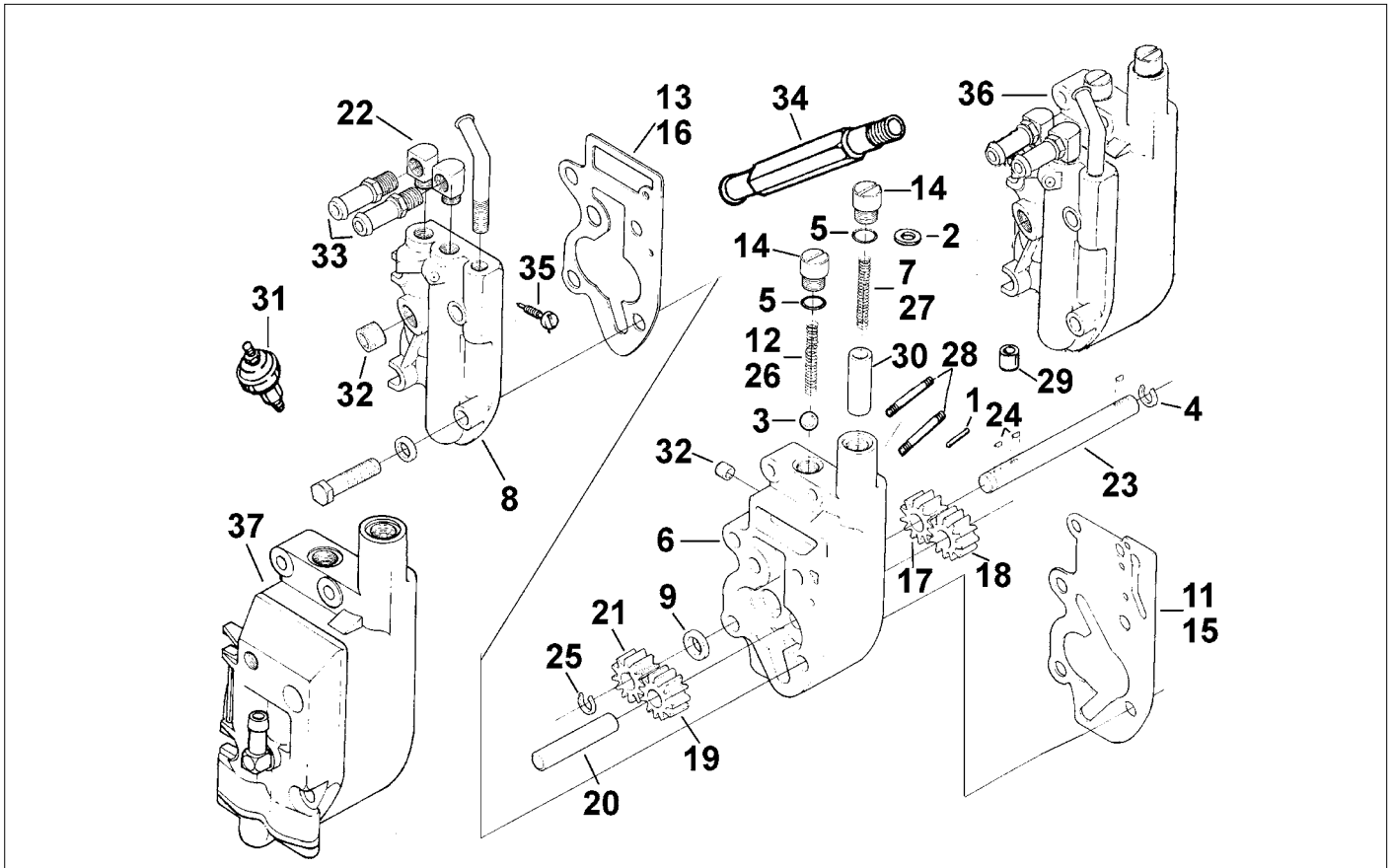
45031



**BT Chr. Oil Pump End Cover**  
Includes cover gasket.  
**3110** 1973-91 without chain oiler



# BT Oil Pump 1968-on



PCP	OEM	Description	Year	U/M	PCP	OEM	Description	Year	U/M		
1	10102	600	Pin Valve Stop	83-99	10 Pk	20	30104	26327-68	Idle Gear Shaft	68-99	Each
2	11700	6581	Brass Washer (.025)	54-78	5 Pk	21	30106	26328-74	Drive Gear	41-99	Each
3	15574	8873	Ball Chk Valve 3/8"	52-on	10 Pk	22	10520	26338-68	Elbow Fitting (2)	68-92	5 pk
4	11003	11002	Retaining Ring	68-99	10 Pk	23	1408	26346-70	Drive Shaft	68-99	Each
5	14505	11105	O-Ring Chk Valve (2)	79-99	10 Pk	24	10310	26348-15	Key, Drive Shaft (3)	36-99	10 pk
6	N/A	26190-73	Oil Pump Body	73-91	Each	25	11060	26348-36	Snap Ring, Shaft	36-99	10 pk
7	13131	26207-73A	Relief Valve Spring	73-82	10 Pk	26	13135	26363-36	Chk Valve Spring FL	66-80	10 pk
	13132	26207-83	" " "	83-99	10 Pk	27	13141	26374-54	Relief Valve Spring	54-72	10 pk
8	N/A	26216-84	Cover, Oil Pump	84-91	Each	28	10841	26390-68	Pump Mnt. Stud	68-79	Each
9	14032	26227-58	Oil Seal	68-99	5 Pk	29	30108	26400-54	Valve Oil Pump	L54-E82	Each
11	79126	26246-68A	Body Gasket (paper)	68-E80	10 Pk	30	30113	26400-82	Valve Oil Pump	82-99	Each
12	13133	26262-80	Check Valve Spring	81-99	10 Pk	31	5670	26552-72	Oil Pressure Switch	41-85	Each
13	79135	26258-68B	Gasket Cover Paper	68-E80	10 Pk		5672	26561-84	Oil Switch 5 Speed	84-99	Each
14	30111	26263-80	Plug check/relief	81-99	Each	32	10545	45830-48	Oil Plug (2)	48-99	5 pk
15	79141	26273-80B	Gasket Body Paper	L80-91	10 Pk	33	10575	63533-41	Fitting Oil Line (2)	41-99	5 pk
16	79143	26276-80A	Gasket Cover Paper	L80-91	10 Pk	34	10576	63533-65	Return Line Fitting	65-84	Each
17	30100	26315-68A	Drive Gear	68-99	Each	35	24510	63614-72	Screw Chain Slot	L72-E83	Each
18	30101	26317-68A	Idle Gear	68-99	Each	36	29800	26190-73	Oil pump assembly	1973-91	Each
19	30102	26326-62A	Drive Idler Gear	L62-99	Each						

## Stock O.E.M. Style

PCP	Application
2160	BT 1936-69 chrome
5192	BT 1936-69 cad
9621	BT 1936-69 parkerized
9794*	BT 1936-69 chrome 1/4-20
9795*	BT 1936-69 cad 1/4-20
9796*	BT 1936-69 parker. 1/4-20
9305	Shovel 1970-80 chrome
9306	Shovel 1970-80 cad

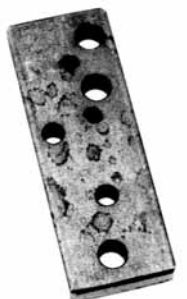
\*Note: Special thread for aftermarket 1/4-20 cases



## Oil Passage Drilling Jig

Allows builder to update early Crankcase to fit S&S Oil Pumps, made of heat treated steel.

530013



# BT Oil Pumps



## Oil Pump Rebuild Kit

Includes all gaskets, seals, clips, keys, check ball for 1968-up FX-FL Big Twin.

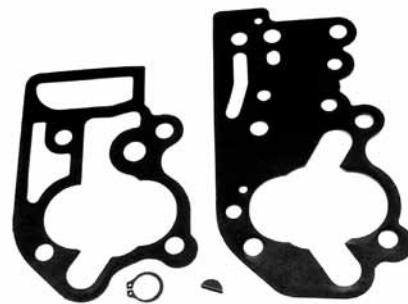
James	Jans	Year	Type
79815	-	48-67	Paper
79817	25601	68-80	Paper
79816	-	68-80	Mylar
79819	25602	81-91	Paper
79818	-	81-91	Mylar



## S&S Oil Pump Master Rebuild

• Fits all S&S pumps 1936-91

316275 Kit



## S&S Billet Oil Pump Gaskets

• BT 1936-91

• With paper gaskets

316271

# Oil Pump Mounting Hardware



## Stock OEM Style

Chrome	Cad	Zinc	Years
-	5331	-	36-67 OHV BT
5332	5333	-	68-77 BT
5334	-	9787	78-91 BT



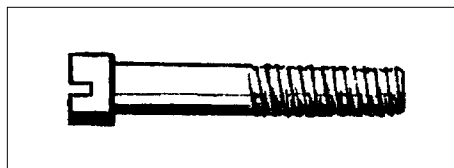
## Allen Style

Chrome	Years
5336	68-77 BT
5337	78-91 BT



## Acorn Style

Chrome	Years
1757	68-77 BT
1821	78-91 BT



## Oil Pump Mounting Screw

Replaces OEM #1397 on all Big Twins 1936-47.

24511



## Oil Pump Nuts Only BT '36-67

1685 Acorn



## Oil Pump Nut Kit

• 1/4-24 hex nuts fit the oil pump on pre-1968 Harleys

• Special size nut with many miscellaneous applications in early models

Chrome	Cad	Parkerized	Years	U/M
2149	5170	9673	36-68	6

## Oil Pump Nut

• Reproduction oil pump nut

• 1/4-24 thread for pre-1968 models

Chrome	Cad	Parkerized	Years	Size
2150	8109	-	36-67 OHV	Long
5309	5310	9631	1941-48 74 & 80 SV 1941-54 45's	Short

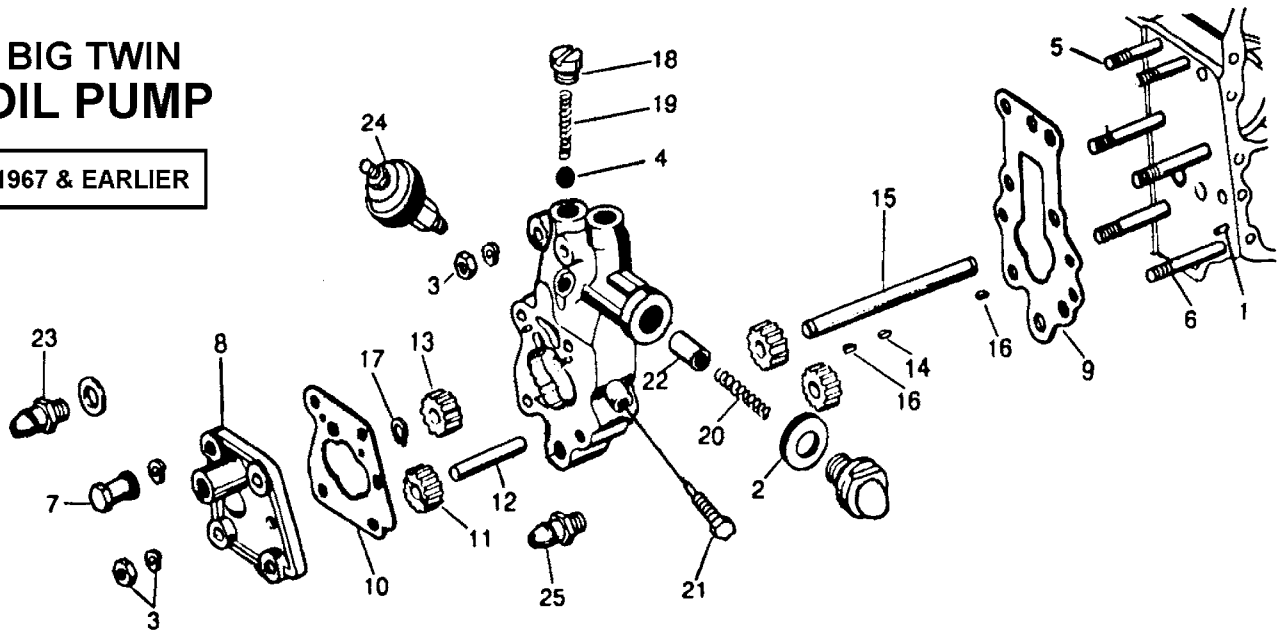
## OEM-Style



# Oil Pump

## BIG TWIN OIL PUMP

1967 & EARLIER



PC #	OEM #	Description	Year	U/M	PC #	OEM #	Description	Year	U/M
1	N/A	341 Dowel mount (2)	41-73	10 Pk	14	10308	26340-36 Key Pump Gear	36-67	10 Pk
2	11700	6581 Washer .025	54-78	5 Pk	15	1406	26346-36 Pump Shaft	41-67	Each
3	5170	7691W 5 Nut Kit w/washers 1/4-24 (2) 68-79	50-79	Kit	16	10310	26348-15 Key Drive Shaft	36-99	10 Pk
4	15574	8873 Ball Chk Vlv 3/8"	41-*	10 Pk	17	11060	26348-36 Snap Ring Shaft	36-69	10 Pk
5	10832	24819-36 Stud (2) 1-11/16"	41-67	Each	18	30107	26362-36 Cap, Valve Spring	41-80	Each
6	10834	24820-36 Stud (4) 2-1/4"	41-67	Each	19	13135	26363-36 Spring, Check Valve	41-55 & 66-80	10 Pk
7	2150	24831-41 Nut 1/4-24 Chrome	41-67	Each		13136	26363-56 Spring, Check Valve	56-65	10 Pk
8	17501	26237-50 Outer Pump Cover	50-64	Each	20	13141	26374-54 Spring Relief Valve	L54-72	10 Pk
9	79123	26245-41 Gasket Pump Body	41-67	10 Pk	21	24508	26383-32 Screw Chain Oiler	32-67	Each
10	79115	26257-50A Gasket Pump Cover	50-67	10 Pk	22	30108	26400-54 Valve Oil Pump	L54-E82	Each
11	30102	26326-62A Drive, Idler Gear	L62-99	Each	23	10592	26424-50 Fitting Pump Cover	50-64	Each
12	30103	26327-52 Idler Gear Shaft	L62-67	Each	24	5670	26552-72 Pressure Switch	41-67	Each
	30105	26328-41 Idler Gear Shaft	41-E62	Each	25	10574	63533-15 Fitting Short Line	36-64	Each
13	30106	26328-74 Drive Gear	41-99	Each					



### Oil Pump Adjusting Screw Kit

Fits BT and Side Valve. Includes screw, shims and washer.

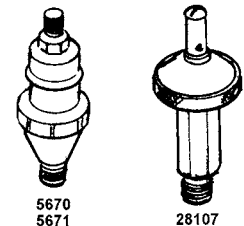
19089



### Colony Oil Pressure Switch Nipple Kit

Cad plated nipple (OEM 26569-39) is complete with screen (OEM 6440). For use on 1939-69 BT.

72623



### Oil Pressure Switches

- Precision calibrated
- heavy duty contacts, plastic insulator

PCP	Years	Application	OEM
28107	39-68	74 & 80 BT	26551-39
5670	72-83	BT	26552-72

# Oil Pump Plugs



## Oil Screen Plug

- Plug and washer or o-ring
- Each

Chrome	Cad	Years	Style	OEM
9603	9604	52-65 BT	Stock	24987-52 plug 24994 copper gasket
3585		52-65 BT	Hex	24987-52
	9875	66-69 BT	Stock	655 plug 62702-52 brass gasket
3587		66-69 BT	Hex	plug and o-ring
9876	9877	70-80 BT	Stock	657 plug and o-ring
3579	-	70-80 BT	7/16" Hex	657



## Colony Oil Pump Check Valve Plug

Chrome	Cad	Parkerized	Years	Style	OEM
-	9524	9525	37-80 OHV BT 37-on 45's All UL	7/16" Hex	26362-36
3581	-	-	36-80 BT	Stock	26362-36



## Oil Pump Relief Valve Plug

- Plugs included brass washer (OEM 6581)

Chrome	Cad	Years	Style	OEM	UM
9605	9606	54-67 BT	Domed	26377-54	Ea
9607	30134	68-80 BT	Stock	26377-68	Ea
3577	-	68-80 BT	9/16" Hex	26377-68	Ea

## Oil Pump Bypass Valve Plug

- Cad stock style plug replaces 26367-36
- Fits 37-80 OHV BT

9527 Each



## Chrome Oil Pump Plug Set

- Plugs for the tappet oil screen, check valve and relief valve
- Set of 3 chrome plugs

Note: #3575, use short plug for oil pump check valve

Chrome	Years	Style	OEM	UM
3575	70-80 BT	Hex		3
3576	81-99 BT	Hex	26263-80	3

## Oil Pump Check & Relief Valve Plugs

- Stock style plugs with o-ring replace OEM 26263-80)
- Fits FL, FX 1981-99
- 2 Pack

9634 Chrome  
9635 Cad



## Oil Pump Plugs

- Fits 1981-99 FL, FX

Chrome	Cad	Fitment	Style	OEM	UM
9644	9645	Oil screen	Stock	26263-80	Ea
3583		Oil screen Pump check valve Relief Valve	Hex	26263-80	Ea
72073		Relief plug Tappet Screen	Allen		Ea



## Chain Oil Kit

- Cad plated oiler body (63607-54), oiler adjusting screw (63610-53), nut and brass washer used on 1954-62 Panheads.

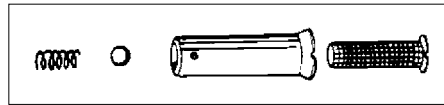
72321

# BT Oil Pump Hardware



## “Super-Pump” Spring Kit 1972-91 Big Twin

- Three interchangeable colour-coded steel springs for most pumps
  - Each spring applies more pressure on the relief valve plunger
  - Average output pressure at 60 MPH:
    - Blue spring 20psi
    - Yellow spring 24psi
    - Red spring 28psi.
  - At idle the pressure drops no lower than 10psi.
  - Choose the proper spring for weight of oil used, driving habits, climate, etc...
- 13260**



## Oil Screen Parts 1952-57

Complete kit includes all parts pictured. (24975-52 Screen), (24985-52 body) (8856 ball), (24992-52 spring).  
**2961**



## Oil Screen Springs

- For tappet oil screen
- Fits 1952-99 BT

PCP	Years	OEM	UM
16269	52-62	24992-52	10
13125	63-65	24979-63	Ea
13126	66-69	24982-66	Ea
13127	70-99	24982-70	5



## BT Oil Screen Kit

- Includes plug, screen, spring & o-ring

PCP	Years
16266	63-65
2989	66-69
2990	70-80
2991	81-84



## BT Tappet Oil Screens

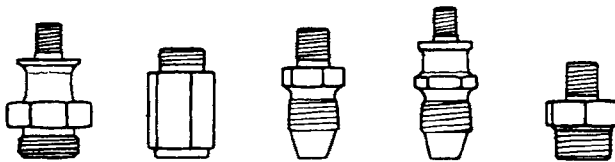
- Sold each

PCP	Years	OEM
16267	52-62	24975-52
16268	63-65	24975-63
13402	66-69	24981-66
3378	70-99	24981-70

Tappet Oil Screen and Spring Kits		
72496	66-69	24981-66, 24982-66
72146	70-99	24981-70, 24982-70

## BT Oil Pump and Filter Fittings



## Oil Pump and Filter Fittings

- Cad

PCP	Years	Application	OEM	UM
10574	36-64	Oil pump to line	63533-15	Ea
10569	40-64	Oil filter line connector	63525-50	Pr
10591	41-64	Oil filter cap adapter	63871-50	Ea
10592	50-64	Oil pump cover to line	26424-50	Ea
10573	50-64	Oil filter line nut	63527-50	Pr
10568	51-64	Oil filter line connector	63524-50	Ea
10571	58-64	Oil pump cover to filter line	63526-50	Pr

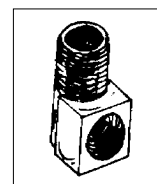


## BT Oil Pump Fitting Kit

Chrome	Years	Style
73597	68-84	Stock
73599	70-91	Custom

## Tight Spot Oil Pump Fittings

- Chrome with 5/16" allen socket
  - 1/8" NPT nipples
  - Easy installation or removal
- 16329** Set of 2

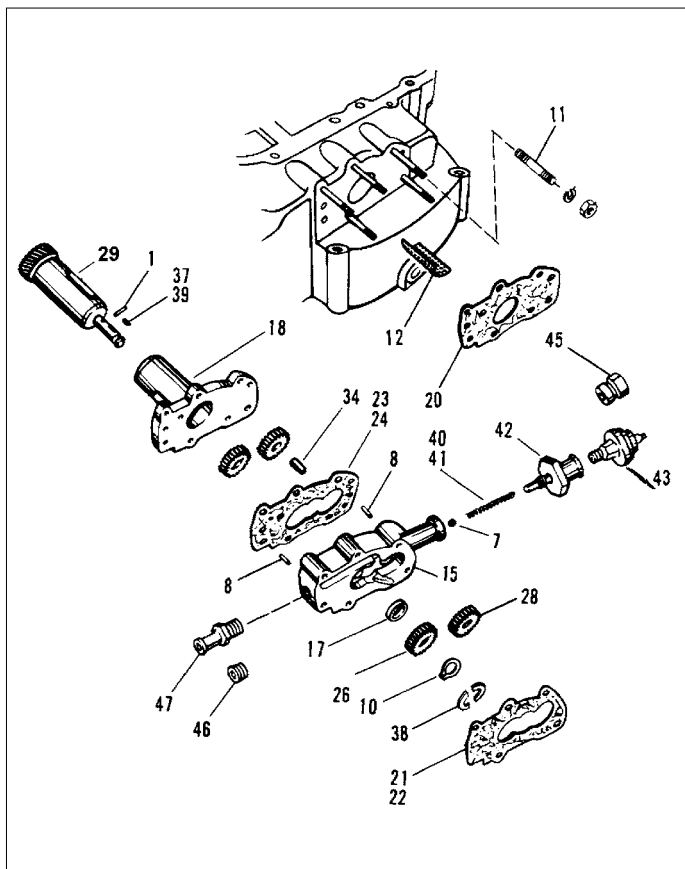


## Oil Pump Fitting

- Chrome 90° fitting
  - Fits 1968-92 Big Twins and many custom applications
  - Replaces 26338-68
- 10520** 5 Pack

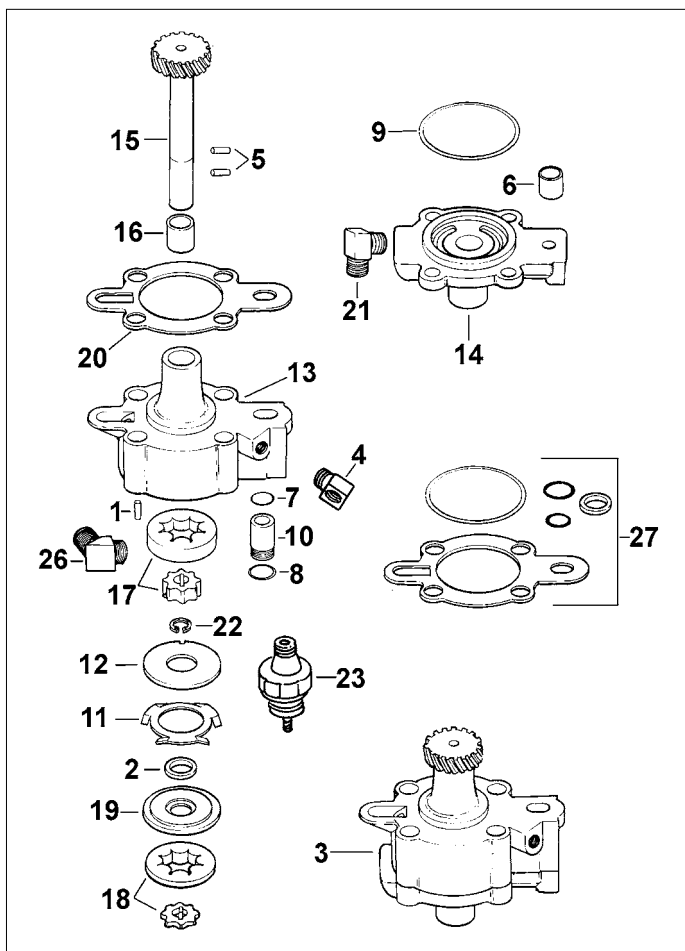
# Oil Pump XL 1952-76

	PC	OEM	Description	Year	U/M
1	10192	240	Feed pin	61-72	10Pk
7	15574	8873	Check ball	54-71	10Pk
8	10125	9095	Dowl	61-76	10Pk
10	11003	11002	Retainer	56-76	10Pk
11	5404	24819-52	Stud & nuts	54-76	Kit
12	4428	25276-52	Screen	54-73	Each
15	30122	26214-72	Body	72-76	Each
17	14032	26227-58	Seal	58-76	5 Pk
18	17518	26241-52	Inner pump	54-76	Each
20	79128	26256-52	Gasket, case	54-76	10Pk
21	79131	26258-52	Outer gasket	54-61	10Pk
22	79132	26258-62	Outer gasket	62-71	10Pk
23	79136	26259-52	Inner gasket	54-62	10Pk
24	79137	26259-62	Inner gasket	62-71	10Pk
26	29063	26315-72A	Gear, scavenger	72-76	Each
28	29064	26317-72A	Gear idler scavenger	72-76	Each
29	19578	26331-56	Breather valve	56-59	Each
	19579	26331-60	Breather valve	60-71	Each
	19703	26331-72	Breather valve	72-76	Each
30	19575	26322-52A	Feed Idler	54-62	Each
31	19576	26323-52A	Feed	54-E62	Each
37	10308	26340-36	Key	60-71	10Pk
38	11059	26341-37	Retainer half	62-71	5 Pk
39	10310	26348-15	Key	72-76	10Pk
40	3410	26364-57	Check spring	57-72	Each
41	3415	26364-72	Check spring	72-76	Each
42	4447	26420-57	Fitting	56-75	Each
43	5670	26552-72	Switch	54-76	Each
45	10523	26569-58	Fitting	54-76	Each
46	10545	45830-48	Plug	58-76	5 Pk
47	10575	63533-41	Feed fitting	67-76	5 Pk

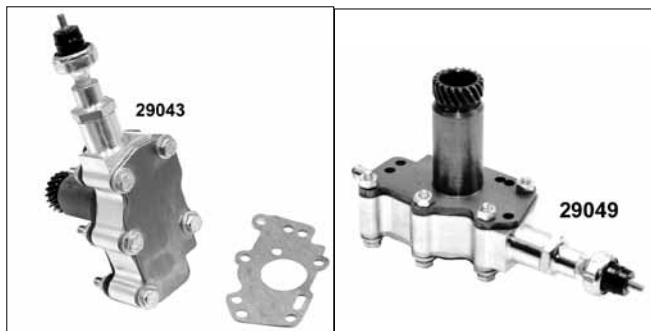


# Oil Pump XL 1977-on

	PCP	OEM	Description	Year	U/M
1	10185	643	Roll pin	77-*	10Pk
2	14020	12036A	Seal, outer plate	77-82	5 Pk
3	29050	26197-83	Oil pump	77-83	Each
4	10520	26338-68	Fitting, pump	86-*	5 Pk
5	N/A	26430-76	Pin, gear shaft (2)	76-*	5 Pk
6	18535	26431-76	Bushing, cover	77-*	5 Pk
7	14538	26432-76A	'O' Ring body	77-82	10Pk
8	14539	26433-77	'O' Ring check valve	79-82	10Pk
9	14540	26434-76A	'O' Ring	77-*	10Pk
10	29053	26435-76A	Check valve	77-82	Each
11	29054	26461-77	Spring, washer	77-*	Each
12	29055	26463-77	Inner plate	77-*	Each
13	29056	26484-86	Pump body	86-*	Each
14	29057	26486-75B	Pump cover	77-83	Each
15	29059	26488-75	Gear shift	77-*	Each
16	18536	26489-75	Bushing, body	77-90	5 Pk
	31382		As above, Jims		Each
17	29060	26491-83	Gerotor set, return	83-*	Set
18	N/A	26492-86	Gerotor set, feed	86-*	Set
19	29062	26493-75A	Outer plate	77-*	Each
20	25084	26495-75	Pump gasket	77-90	10Pk
21	10522	26496-75	Fitting 90 degree	L83-*	Each
22	11061	26497-75	Snap ring	77-*	10Pk
23	5671	26554-77	Switch	77-*	Each
26	10565	62601-86	Fitting connector	86-*	Each
27	25605	-	Gasket & seals	77-*	Kit



# Oil Pump



## XL Oil Pump Assembly 1957-76

Oil pump assembly features an aluminum body, oil pressure switch, and all internal parts.

**29043** Preston assembly 1957-66 (26204-56)

**29049** Preston assembly 1967-76 (26204-67A)

## Sportster Oil Pump Assembly

- Fully assembled oil pump with gears

- Natural Finish

- Replaces 26197-83

**29050** 1977-85 T/L

**30051** 1977-85 Import

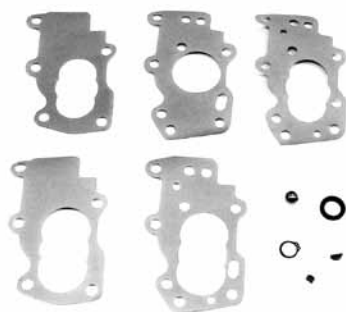


## Oil Pump Repair Kits

**PCP Application**

**15418** XL 1977-82

**15419** XL 1983-on



## James Oil Pump Gasket and Seal Kits

**79813** 1952-76

**79814** 1977-90

## Oil Pressure Switches

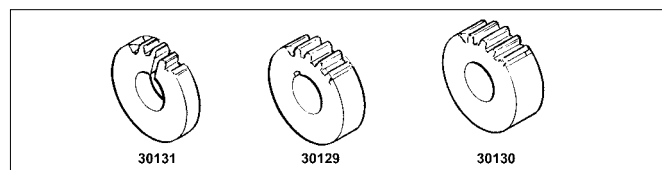
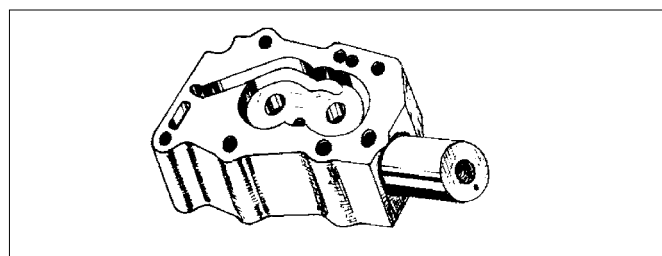
Oil pressure switches with precision calibrated heavy duty contacts, plastic insulator and a bright finish.

**PCP Fits**

**5670** XL and K 1954-76 (26552-72)

**5671** XL 1977-92 (26554-77)

**4447** Fitting XL 1957-75 (26420-57)



## XL Machined Oil Pump Body 1957-76

Machined body replaces 26214-72 on XL models from 1972-76 and accepts later gears listed in chart below. Includes gear dowel press and is American made.

**30122**

**Also accepts:**

**30129** 26315-72A

Scavenger gear

**30130** 26317-72A

Scavenger idle gear

**30131** 26322-52A

Idle gear



## XL Oil Pump Drive Gear

**PCP OEM Fits**

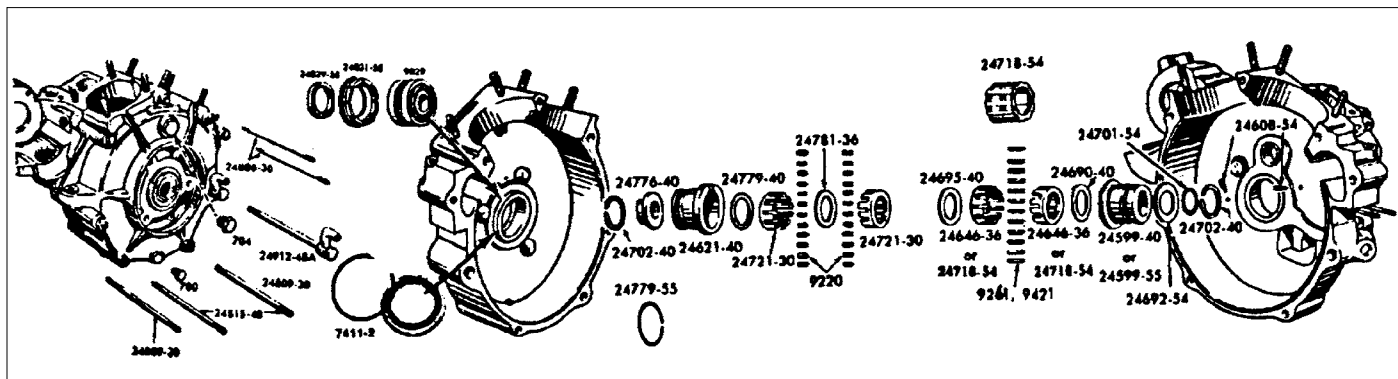
**29068** 26318-75 1977-87 Pinion



## Oil Pump Mounting Kit

PCP	Application	Style	Finish
<b>8815</b>	XL 1952-E71	Stock	Cad
<b>5404</b>	XL 1952-E71	Stock	Chrome
<b>9615</b>	XL L1971-76	Stock	Cad
<b>78816</b>	XL 1954-76	Allen	Chrome
<b>78817</b>	XL 1977-90	Allen	Chrome

# 1940-57 Big Twin



PCP	OEM	Description	Years	U/M
1754		Seal & Ring	36-54	Each
15516	9029	L/Case Bearing	55-68	Each
11801	24029-55	Spacer .336	55-64	Each
1753	24031-55	Seal and Nut	55-68	Each
954	24599-40	R/Bushing STD	40-54	Each
955	24601-40	R/Bushing .005	40-54	Each
1006	24599-55	R/Bushing STD	55-57	Each
1007	24601-55	R/Case Bushing .005	55-57	Each
1008	--	R/Case Bushing .010	55-57	Each
24505	24608-54	Screw, Bushing	54-78	10 Pack
946	24621-40	L/Case Bushing STD	36-54	Each
947	24623-40	L/Case Bushing .005	36-54	Each

PCP	OEM	Description	Years	U/M
10726	24646-36	R/Roller Retainer	37-53	Each
11817	24690-40	R/Bearing Washer	40-53	Each
11818	24692-54	R/Bearing Washer	54-57	Each
11819	24695-40	R/Bearing Spacer	40-54	Each
11054	24701-54	R/Bearing Ret. Ring	54-56	10 Pack
11055	24702-40	Crank Bearing Ring	40-52	5 Pack
10728	24718-54	R/Roller Retainer	54-57	Each
10729	24721-30	L/Roller Retainer	30-54	Each
11820	24776-40	L/Bearing End	40-54	Each
11821	24779-40	L/Bearing Washer	40-54	Each
11057	24779-55	L/Bearing Ring	55-68	Each
11822	24781-36	L/Bearing Spacer	37-54	Each
10904	24912-48A	Stud & Oiler	48-57	Each

## Left Case Rollers

BT 1930-54 (24 Pk)		
PCP	OEM	Size
957	9220	STD
958	9221	.0002
959	9222	.0004
960	9223	.0006
961	9224	.0008
962	9225	.001

## Right Case Rollers

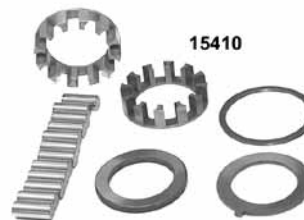
BT 1937-54 (12 Pk)			BT 1955-57 (13 Pk)		
PCP	OEM	Size	PCP	OEM	Size
963	9261	STD	1012	9421	STD
964	9262	.0002	1013	9422	.0002
965	9263	.0004	1014	9423	.0004
966	9264	.0006	1015	9424	.0006
967	9265	.0008	1016	9425	.0008
968	9266	.001	1017	9426	.001



## JIMS Steel Bushings

- American Made
- Sold each

PCP	OEM	Year	Application	Size
31062	24599-40	40-54	R/Bushing	STD
31063	24601-40	40-54	R/Bushing	.005
31066	24599-55	55-57	R/Bushing	STD
31067	24601-55	55-57	R/ Case Bushing	.005
31078	24621-40	40-54	L/ Case Bushing	STD



## Pinion Bearing Sets

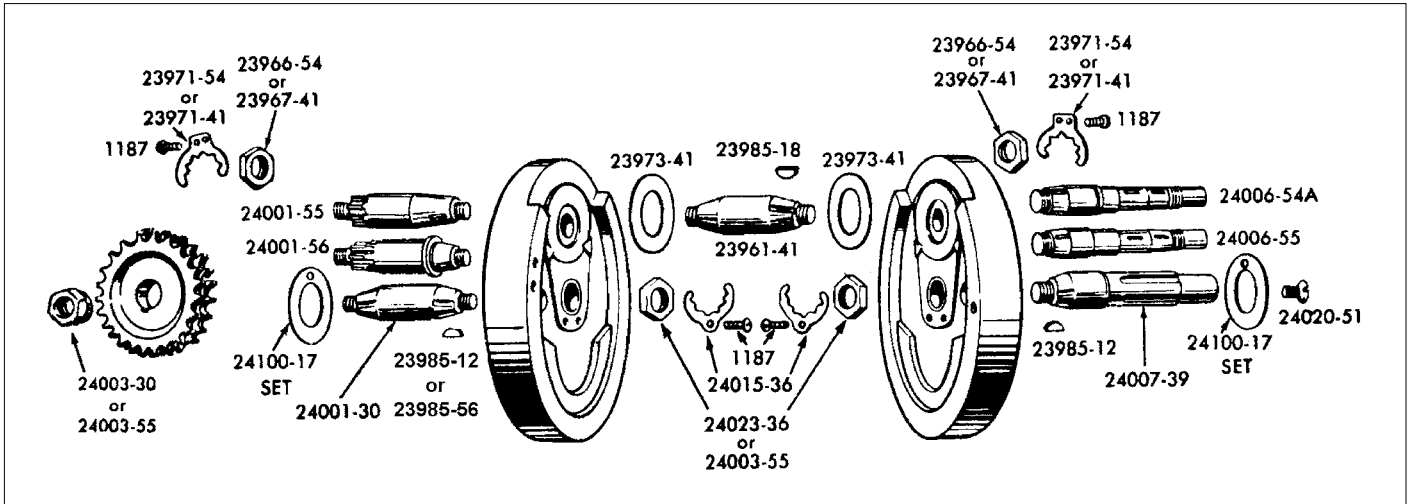
Bearing set for right side that includes rollers and cages. Snap rings and washers when required except for 45 models.

STD	Year	Application
15410	36-54	74" & 80"
15417	55-57	61" & 80"
15411	58-86	74" & 80"

**Sprocket Shaft Cage/Bearing and hardware kit**  
15414 BT 1941-54



# Flywheels BT 1940-57



PC #	OEM #	Description	Years	U/M	PC #	OEM #	Description	Years	U/M
24500	1187	Screw Lock Washer	40-on	10 Pk	970	24001-30	Sprocket Shaft	30-54	Each
975	23961-41A	Crank Pin 3 Hole	41-E81	Each	1024	24001-55	Sprocket Shaft	1955	Each
976	23962-50	Step C/Pin 61-80 OHV	40-52	Each	1025	24001-56	Sprocket Shaft	56-64	Each
12532	23966-36	Crank Pin Nut 61"	36-52	Pair	12537	24003-30	Nuts Motor Sprocket	30-54	Each
12599	23966-54A	Crank Pin Nut (2)	54-81	Pair	12538	24003-55	Nuts Motor Sprocket	55-69	Each
13703	23971-41	Crank Pin Lock Tab (2)	41-53	Pair	30142	24006-37	Pinion Shaft BT S/V	37-48	Each
13704	23971-54	Crank Pin Lock Tab (2)	54-80	Pair	1032	24006-54A	Pinion Shaft	55-57	Each
19570*	23972-36	Washer .055 (steel)	36-52	Pair	1030	24007-39	Pinion Shaft	39-54	Each
19571*		Washer .060 (steel)	36-52	Pair	13706	24015-36A	Lockwasher (2)	36-52	5 Pk
11526	23973-41	Washer, Steel STD (2)	41-69	Pair	24504	24020-51	Pinion Screw L.H.	51-53	Each
11527	-	Washer, Bronze +.005	41-69	Pair	12543	24023-36	Pin/Sprocket Nut (2)	36-E81	Each
10304	23985-12	Key, Pin/Sprocket (2)	41-E81	10 Pk	11530	24100-17	Thrust Washers .066 to .102	29-54	11 Pcs
10305	23985-18	Crank Pin Key (2)	41-E81	10 Pk					
10307	23985-56	Sprocket Key	56-71	10 Pk					

\*Note: Rod thrust washer BT 36-52 & S/V 37-48



**Crank Pin Nuts**  
Fits 1936-40 61" & 80".  
12532 (pair)



## BT Motor Nuts

PCP	OEM	Description	Model
31003	23966-36	Crank pin nuts (pair)	BT 1936-52
31004	23966-54A	Crank pin nuts (pair)	BT 1954-E81
31008	24017-80	Sprocket shaft nut (each)	BT 1972-85
31009	24023-36	Pinion shaft nut (each)	BT 1930-E81



## Left Bearing End Oil Slinger

• Replaces 24776-40

PCP	Colony	Year
11820	72742	36-54 BT



## Motor Sprocket Nut

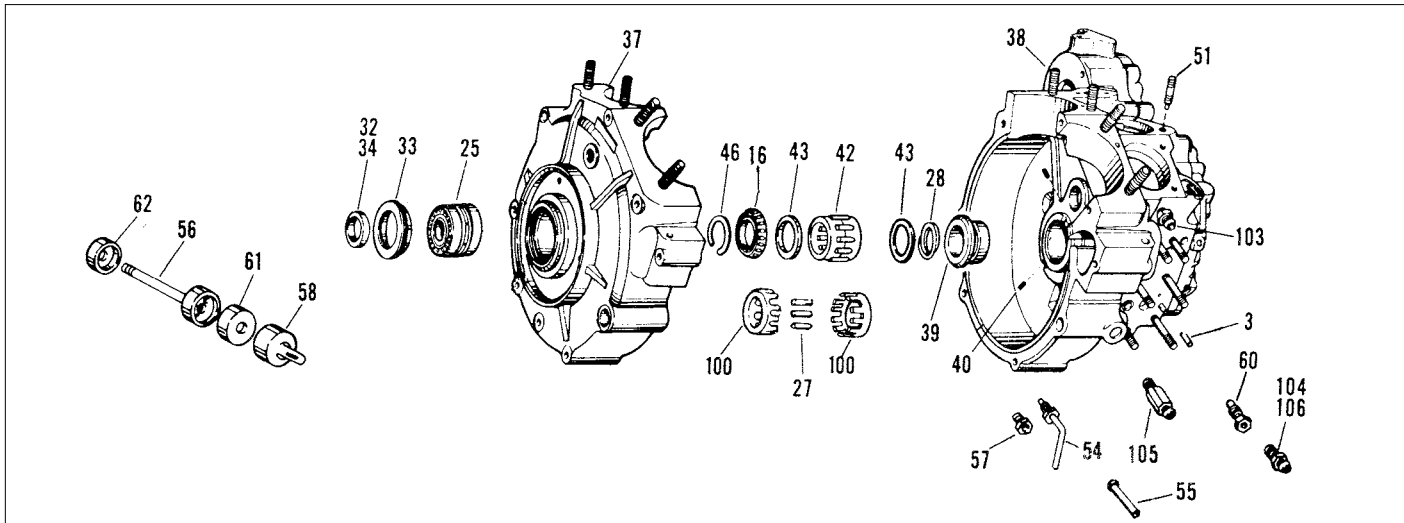
Original replacement style for 1930-54 Big Twins.  
12537



## BT Motor Sprocket Nut Set 1930-54

Kit includes correct nut, key, retaining ring, and left bearing oil slinger.  
12634

# Crankcase BT 1958-69



## FL Engine Case 1958-69

#	PCP	OEM	Application
3	N/A	341	Dowel pin, oil pump mounting 41-* (10 pk)
25	<b>15516</b>	9029	Bearing, left crankcase 55-68
	<b>15500</b>	9028	As above, 1969-on
27	<b>15050</b>	9220A	Roller, r/s bearing std 58-86 (28pk)
	<b>15051</b>	9221A	As above +.0002
	<b>15052</b>	9222A	As above +.0004
	<b>15053</b>	9223A	As above +.0006
	<b>15054</b>	9224A	As above +.0008
	<b>15055</b>	9225A	As above +.001
	<b>15056</b>	-	As above +.002
28	<b>14507</b>	11007	Retaining ring, right bearing 58-* (10pk)
4A	<b>5472</b>	16831-30	Cylinder studs 41-77 (8 pk)
4B	<b>13564</b>	23741-55	Bearing shim .003 55-84 (10 pk)
32	<b>11801</b>	24029-55	Spacer, sprocket shaft .336 thick 55-64, 66-*
	<b>11802</b>	24029-65	Spacer, sprocket shaft .621 thick 1965
33	<b>1753</b>	24031-55	Case nut with seal 55-*
34	<b>11803</b>	24032-66	Spacer, sprocket shaft .516 66-69
	<b>11804</b>	24033-66	Spacer, sprocket shaft .546 66-69
	<b>11805</b>	24034-66	Spacer, sprocket shaft .576 66-69
	<b>11806</b>	24035-66	Spacer, sprocket shaft .606 66-69
	<b>11807</b>	24036-66	Spacer, sprocket shaft .636 66-69
	<b>11808</b>	24037-66	Spacer, sprocket shaft .666 66-69
	<b>11809</b>		6 Piece assortment of above 66-69

#	PCP	OEM	Application
39	<b>1009</b>	24599-58	Bushing, right crankcase std. 58-99
	<b>31070</b>	24599-58	Jims, as above
	<b>1171</b>	24600-58	Bushing, right crankcase +.002
	<b>1010</b>	24601-58	Bushing, as above +.005
	<b>1011</b>		Bushing, right crankcase +.010
	<b>31071</b>		Jims, as above
40	<b>24505</b>	24608-54	Screw, crankcase gear side bushing 54-78 (10 pk)
42	<b>15920</b>	24650-58	Right bearing std. 58-85 (kit)
43	<b>11816</b>	24692-58	Washer, right bearing 58-86 (pr)
46	<b>11057</b>	24779-55	Snap ring, L/S bearing 55-68 (ea)
51	<b>10822</b>	24811-63	Stud, circuit breaker mounting clamp 66-69 (ea)
54	<b>17506</b>	24912-65	Breather pipe 1965-66
55	<b>17507</b>	24913-67	Breather pipe 1967
56	<b>10840</b>	24914-58	Breather stud 58-64
58	<b>1379</b>	24918-58	Breather nipple 58-64
100	<b>10732</b>	43578-35	Retainer, right roller bearing 58-86 (ea)
103	<b>10574</b>	63533-15	Nipple, vent pipe tubing 15-64 (ea)
104	<b>10575</b>	63533-41	Nipple, vent hose L66-* (5 pk)
105	<b>10576</b>	63533-65	Nipple, oiler return line hose 1965 (ea)

## Sprocket Shaft Seal and Snap Ring

Bearing retainer fits BT 1955-68.  
**1753**



## S&S Shaft Assemblies

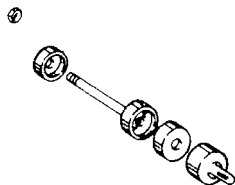
PCP      Application  
**332002**      Sprocket shaft BT 1955-64



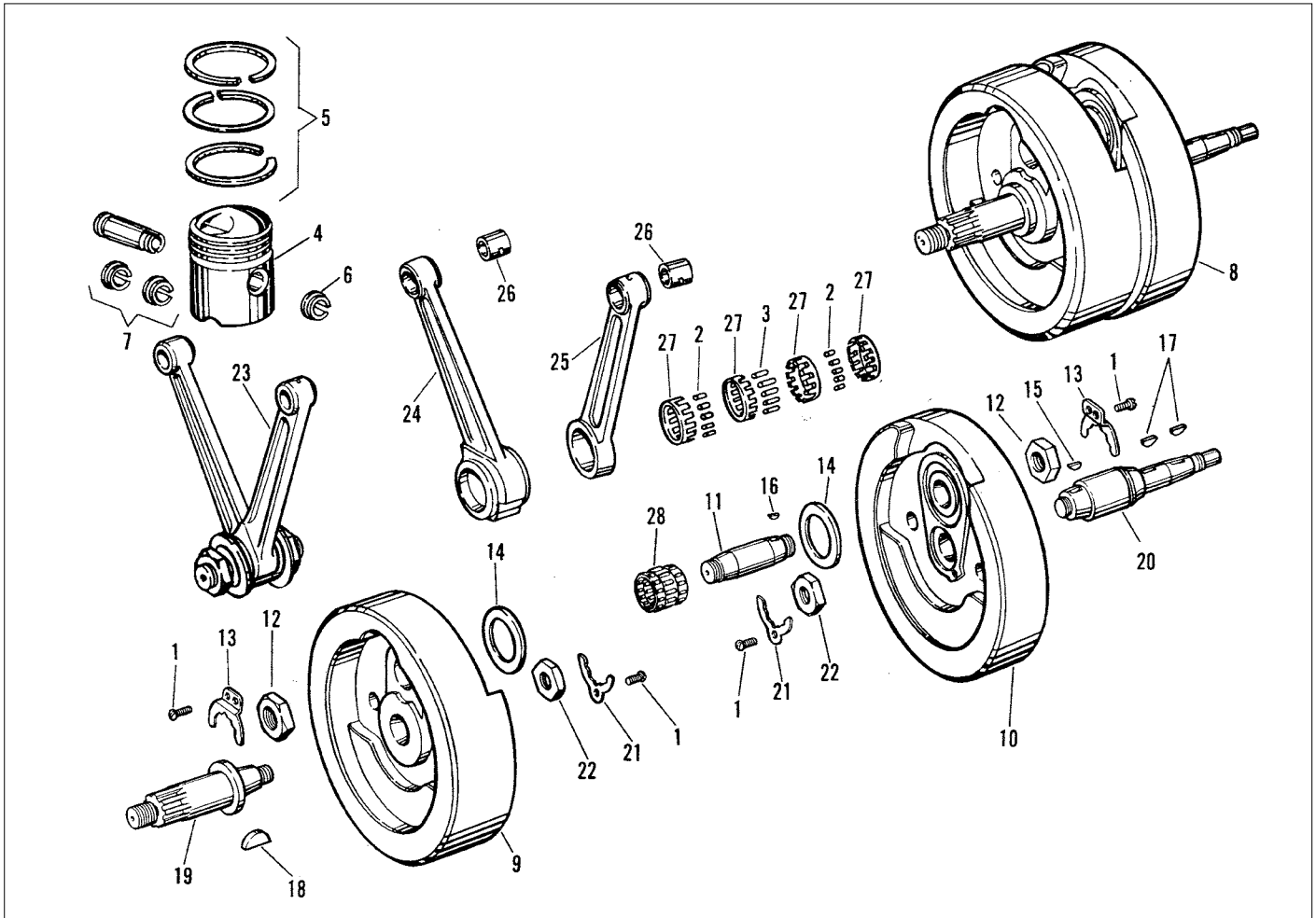
## Breather Stud Kit

Kit includes all parts pictures 24925-58 spacer, 24914-58 stud, 24922-58 collar, 24923-58 cap and 24918-58 rubber nipple, for 1958-64 Big Twin.

**17500** Complete kit  
**1379** Oil nipple only



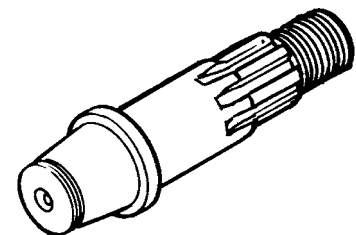
# FL Flywheels 1958-69



## FL Flywheels 1958-69

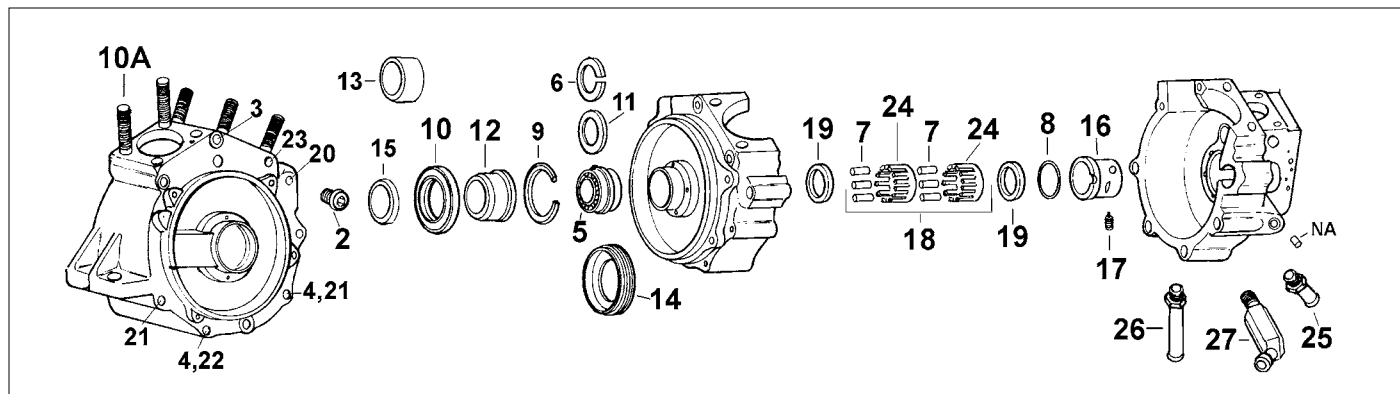
#	PCP	OEM	Application
1	24502	2660	Screw 1948-* 10-24 x 3/8 (10 pack)
6	11048	22581-32	Lock ring, old "L" style 1941-72 (pr)
	11049	22582-52	Lock ring, spiral style 73-E77 10pk
8	58001	23906-58	74" Flywheel assembly 1958-64
	58004	23906-65A	74" Flywheel assembly 1965-69
11	975	23961-41	Crank pin 1941-E81 3 hole
12	12599	23966-54A	Nut, crank pin 1954-81 (pr)
	31004		Jims As above
13	13704	23971-54	Lockplate, crank pin nut 54-80 (pr)
14	11526	23973-41	Washer, std flywheel 1941-70 (pr)
	11527		As above, +.005 (.060)
15	10304	23985-12	Key, gear shaft to f/w 41-E81 (10)
16	10305	23985-18	Key, crank pin 1941-81 (10 pk)
17	10306	23985-54	Key, gear shaft pinion 1954-89 (10)
18	10307	23985-56	Key, sprocket shaft 1956-71 (10 pk)
19	1025	24001-56	Sprocket shaft 1956-64
	31207		Jims, as above
	1026	24001-65	Sprocket shaft 1965-69
	31210		Jims, as above
20	1033	24006-58	Gear shaft 1958-72
	31245		Jims, as above
21	13709	24015-36	Lockplate, shaft nut 1941-* (pr)
	13706		As above, (5 pk)
22	12543	24023-36	Nut, gear/sprock/shafts 36-E81(ea)
	31009		Jims, as above (each)
	12538	24003-55	Sprocket nut 1955-69
23	34001	24281-41A	Connecting rod assembly 1941-73 (includes bearings and crank pin)

#	PCP	OEM	Application
26	18507	24334-36	Bushing, piston pin 1936-99 (pr)
	31354		Jims, as above
	32051		Bushing +.002 piston pin 36-99 (pr)
	18508		as above +.005 (pr)
	31355		Jims as above (pr)
	18509	24335-36	Bushing, piston pin +.010 (pr)
27	10721	24366-51	Retainer, c/pin roller 36-98 (4 pc)
28	2744	24385-40A	Rollers & retainers std. 41-* (set)
	2745	24386-40A	As above, +.0002
	2746	24387-40A	As above, +.0004
	2747	24388-40A	As above, +.0006
	2748	24389-40A	As above, +.0008
	2749	24390-40A	As above, +.001



- 32512** Special shaft for installing 1981-86 (6 degree main-shaft) 80" flywheels in all 1956-64 Big Twins
- 32513** Special shaft for installing 1981-86 (6 degree main-shaft) 80" flywheels in all 1965-69 Big Twins

# Crankcase BT 1958-83



PCP	OEM	Description	PCP	OEM	Description
2	<b>10503</b> <b>9402</b>	Timing plug, cad 70-on (ea) As above, chrome 70-on (ea)	14	<b>1753</b> <b>1762</b>	24031-55 Retainer & seal nut 55-68 (each) As above +.002 O.S.
5	<b>15516</b> <b>15500</b>	9029 Timken bearing 55-68 (set) 9028 Timken bearing 69-02 (set)	15	<b>11850</b> <b>11851</b> <b>11852</b>	35850-84 Shaft spacer .010 70-99 (5 pk) 35851-84 " " .020 70-99 (5 pk) 35852-84 " " .032 70-99 (5 pk)
6	<b>13540</b>	9120-9134 Spacer, bearing assembly (16 pk) assortment (.0915-.1205)	<b>11810</b> <b>11811</b> <b>11812</b> <b>11813</b>	24032-70 24033-70 24034-70 24035-70	Shaft spacer .060 70-99 (each) " " .090 70-99 (each) Shaft spacer .120 70-99 (each) " " .150 70-99 (each)
7	<b>15050</b> <b>15051</b> <b>15052</b> <b>15053</b> <b>15054</b> <b>15055</b> <b>15056</b>	9220A R/S Rollers STD 58-86 (28 pk) 9221A " .0002 58-86 (28 pk) 9222A " .0004 58-86 (28 pk) 9223A " .0006 58-86 (28 pk) 9224A " .0008 58-86 (28 pk) 9225A " .001 58-86 (28 pk) 9225A+2 " .002 58-86 (28 pk)	<b>11814</b> <b>11815</b> <b>11848</b>	24036-70 24037-70 -	" " .180 70-99 (each) " " .210 70-99 (each) 6 Pk assort.of above
8	<b>11007</b>	11007 R/S Retaining ring 58-86 (10 pk)	16	<b>1009</b> <b>31070</b>	24599-58A R/S case bush Std. 58-92 (each) Jims bushing Std. 58-92 (each)
9	<b>11057</b> <b>11039</b>	24779-55 L/S Retaining ring 55-68 (each) 11160 Snap ring (Timken) L83-on (5 pk)	<b>1171</b> <b>1010</b> <b>31071</b> <b>1011</b> <b>31090</b>	24600-58A 24601-58A Jims bushing .010 58-on (each) Eastern " .010 58-on (each) Jims bushing +.032 1958-85 (each)	Eastern " .002 58-on (each) " " " .005 58-on (each)
10	<b>14016</b>	12026B Oil seal 70-on (5 pk)	<b>17</b> <b>18</b> <b>19</b> <b>317003</b> <b>317004</b>	24608-54 24650-58 24692-58 As above S&S .070 (5 pk) As above S&S .050 (5 pk)	Screw R/S bush. (2) 54-78 (10 pk) R/S bear. kit STD 58-85 (kit) " " washer .070 58-86 (pair)
10A	<b>5472</b> <b>5473</b>	16831-30 Cylinder studs 30-77 (8 pack) 16837-78 Cylinder studs 78-84 (8 pack)	<b>24</b> <b>25</b> <b>26</b> <b>27</b>	<b>10732</b> <b>10575</b> <b>10576</b> <b>10500</b>	43578-35 R/S retainer cage 58-86 (each) 63533-41 Fitting vent hose L66-* (5 pk) 63533-65 " return hose 65-on (each) 63541-70 Tee, chain oiler 71-78 (each)
11	<b>13564</b>	23741-55 Bearing shim .003 55-84 (10 pk)			
12	<b>11800</b>	24002-70 Sprocket spacer 70-on (each)			
13	<b>11801</b>	24029-55 Sprocket spacer .336 55-64 & 66-68 (each)			
	<b>11802</b> <b>11803</b> <b>11804</b> <b>11805</b> <b>11806</b> <b>11807</b> <b>11808</b> <b>11809</b>	24029-65 " " .621 1965 (each) 24032-66 " " .516 66-69 (each) 24033-66 " " .546 66-69 (each) 24034-66 " " .576 66-69 (each) 24035-66 " " .606 66-69 (each) 24036-66 " " .636 66-69 (each) 24037-66 " " .666 66-69 (each) -- 6 Piece assortment of above 66-69			



**S&S 1958-81 Big Twin Pinion Shaft Assembly**  
Replaces 24006-54A, 24006-58, 24006-73.  
**332024** Fits S&S L, AL, SE or stock flywheels

## Jims Sprocket Shaft Nuts

**PCP Description**  
**31014** BT 1955-69 (24003-55)

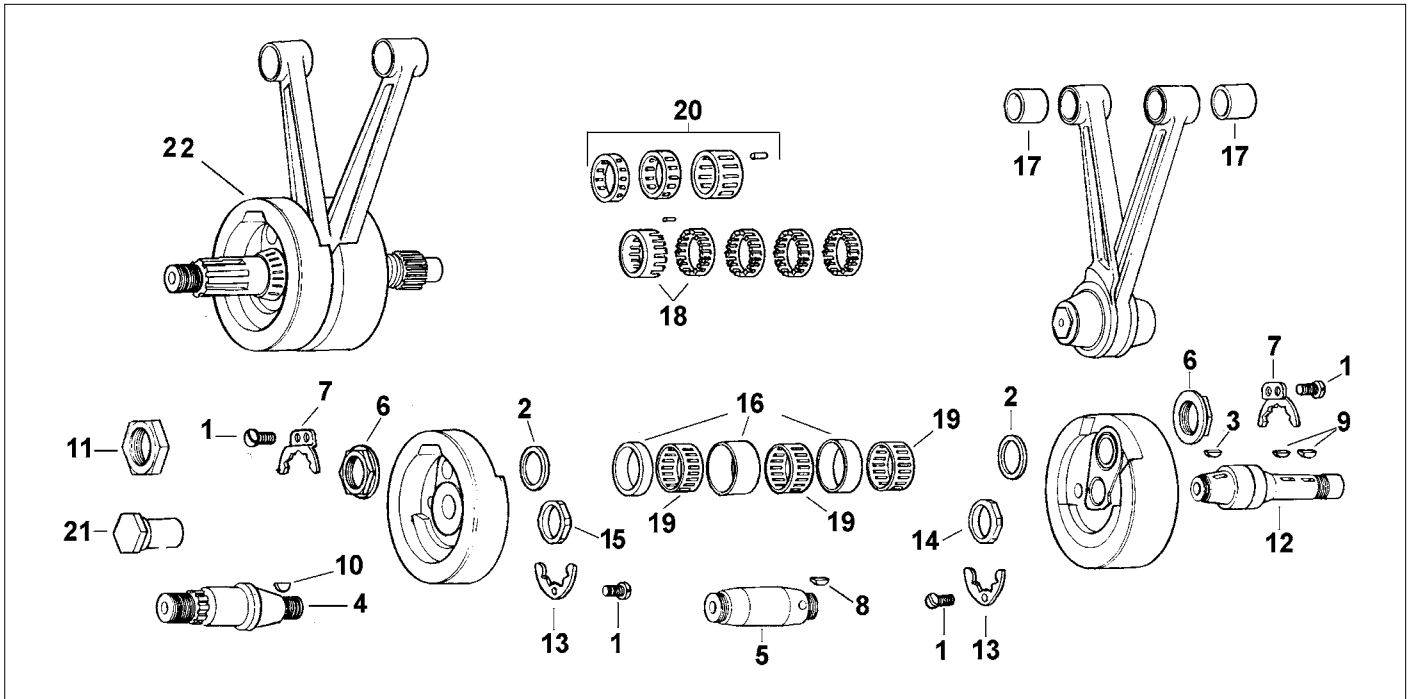


## Jims Pinion Shaft Nuts

**31016** BT 1954-89 (24023-54)



# Flywheels BT 1958-83



	PCP	OEM	Description		PCP	OEM	Description
1	24502	2660	Screw 10-24x3/8 48-78 (10 pk)	12	1033	24006-58	Pinion shaft 58-72
2	11520	6506	Bronze washer L70-99 (pair)		31245		As above Jims
	11523		As above +.005 (0.65) (pair)		1046	24006-73	Pinion shaft 73-81
	11526	23973-41	Thrust .055 washer 41-70 (pair)		31246		As above Jims
	11527	-	Thrust washer bronze +.005 O.S.		2743	24006-80	Pinion shaft L81-E83
3	10301	11218	Key, pinion to wheel L81-* (10 pk)	13	13708	24018-36	Lock plate shaft nut (2) 41-71 (pr)
	10304	23985-12	Key, pinion to wheel 41-E81 (10pk)	14	12543	24023-72	Nut gear & Sproc. (2) 36-E81 (ea)
4	1025	24001-56	Sprocket shaft 56-64		12539	24016-80	Nut, pinion shaft L81-89 (each)
	31207		As above Jims	15	12541	24017-80	Nut, sprocket 72-E85 (each)
	1026	24001-65	Sprocket shaft 65-69	16	977	24345-36A	Rod race, narrow (2) 41-99 (set)
	31210		As above Jims			24356-36A	Rod race, wide (1)
	31213	24001-70	Sprocket shaft, Jims 70-71		31049		As above Jims
	1035	24001-72	Sprocket shaft 72-E81	17	18507	24334-36	Pin Bushing STD 36-98 (pair)
	31214		As above Jims		32051		" " .002 36-98 (pair)
	31200	23909-80	Sprocket shaft L81-E85 (Jims)		18508		" " .005 36-98 (pair)
5	975	23961-41	Crank pin (3 Hole) 41-E81		18509		" " .010 36-98 (pair)
	31136		As above Jims 1 hole	18	31047	24366-51	Cage set, steel-Jims (4) 41-on
	31137		As above Jims 3 hole		344010		As above S&S 41-on
	3380	23961-80	Crank pin (3 hole) L81-on	19	10723	24366-71	Cage set (Alloy) (2) 73-86
	31140		As above Jims			24367-71	Cages (Alloy) (1)
6	12599	23966-54A	Nut, crank pin 54-E81 (pair)	20	15850	24385-40B	Rollers/Cages set STD 41-86
	12535	23969-80	Nut, crank pin L81-E83 (pair)	21	12569	40392-70	Nut, sprocket 70-90 (each)
7	30201	23971-54	Lock plate, c/pin 54-80 (pair)	22	N/A	23906-78G	Flywheel assembly 1978-90
8	10305	23985-18	Key, c/pin 41-E81 (10 pk)				
9	10306	23985-54	Key, pinion (2) 54-on (10 pk)				
	10310	26348-15	Key, pinion 36-on (10 pk)				
10	10307	23985-56	Key, sprocket 56-71 (10 pk)				
11	12538	24003-55	Nut, sprocket 55-69 (each)				

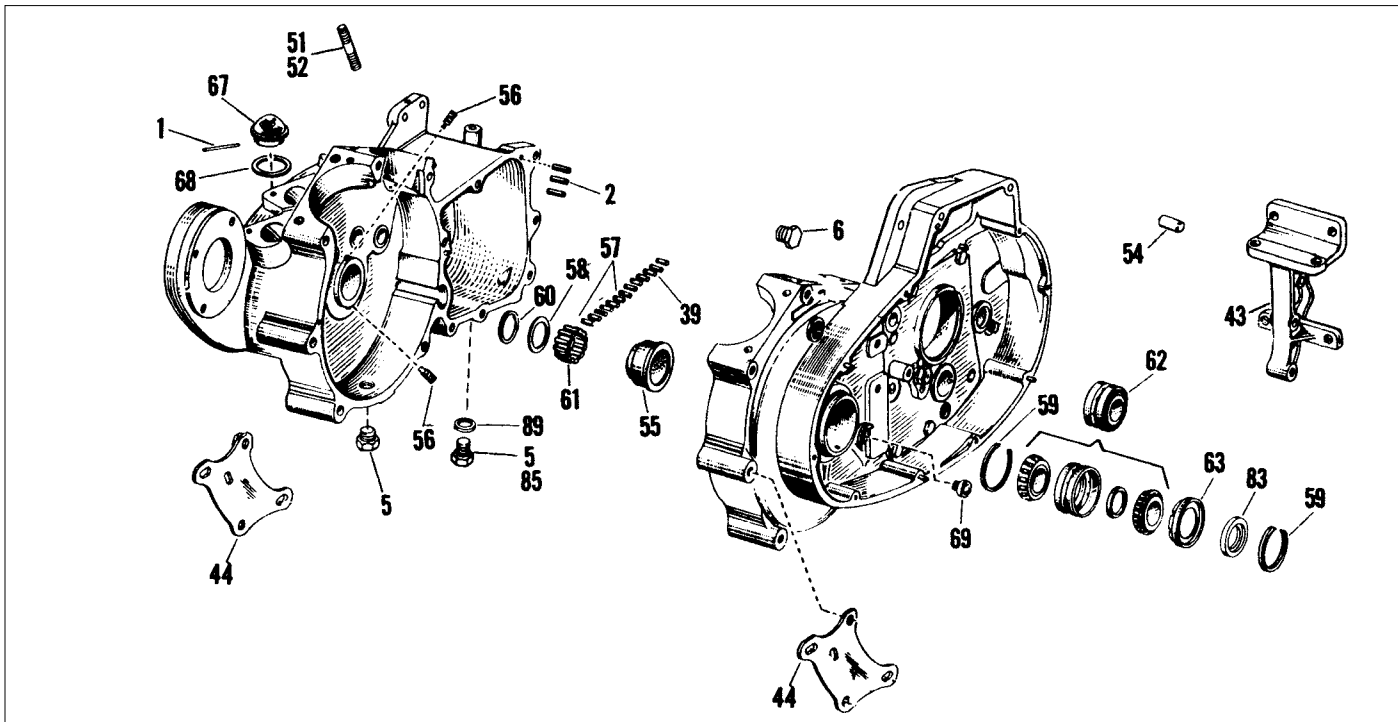


**Sprocket Lock Plate and Screw Kit**  
3385 24018-72



**Jims Crank Pin Nuts BT 1954-E81**  
31004 1"-18 (23966-54A) (pair)

# Sportster



## Crankcase Replacement Parts

Applications listed for all models fit 1954-57 KH and 1957-on XL models including XLH and XLCH.

	PCP	OEM	Description	Application	U/M
1	10139	333	Pin, oil strainer	54-on All	5 Pk
2	10110	358	Dowel pin	54-on All	10 Pk
5	10611	707	Drain plug, 1/2-13	54-on All	Each
6	10612	720	Plug, 5/8-18	72-on XLH, XLCH	Each
39	1072	9421	Bearing roller 3/16x800	57-on all XL	Set (13 PK)
	1073	9422	Bearing roller +.0002"	57-on all XL	Set
	1074	9423	Bearing roller +.0004"	57-on all XL	Set
	1075	9424	Bearing roller +.0006"	57-on all XL	Set
	1076	9425	Bearing roller +.0008"	57-on all XL	Set
	1077	9426	Bearing roller +.001"	57-on all XL	Set
43	4057	16203-67	Rear engine mount plate	67-on all XL	Each
	4058	16203-82A	Rear engine mount plate	82-90 XLH	Each
44	1155	16210-52A	Front engine mount plate	54-81 KH, XL, XLH	Set
51	10810	16830-54	Cylinder base stud 2-5/16"	54-71 All	4 Pk
52	5474	16830-72	Cylinder base stud 2-11/32"	54-71 XLH, XLCH	8 Pk
54	10129	24578-57	Dowel pin	57-on all XL	Pair
55	1069	24585-57	Bushing, right crankcase	57-on all XL	Each
	31054	24585-57	Bushing, r/crankcase, Jims	57-on all XL	Each
56	24505	24608-54	Screw, gear shaft bushing	57-on all XL	10 Pk
57	15890	24650-55	Cages and rollers STD	57-on all XL	Set
58	11818	24692-54	Washer, gear shaft bearing	54-on All	Each
59	11053	24701-52	Retainer, sprocket shaft bearing	54-76 All	5 PK
60	11054	24701-54	Retainer, gear shaft bearing	54-76 All	10 Pk
61	10728	24718-54	Retainer, gear shaft bearing rollers	54-76 All	Each
62	15505	24729-52	Bearing, sprocket shaft	54-76 All	Set
	15506	24729-74	Bearing, sprocket shaft	77-85 all XL	Set
63	3116	24781-54	Bearing spacer, sprocket shaft	54-on All	Each
67	2671	24975-37	Oil strainer	54-76 All	Each
68	25059	24978-57	Gasket, oil strainer	57-81 all XL	10 Pk
69	3411	25075-55	Oil transfer valve	57-76 all XL	Each
83	14041	35151-52A	Oil seal, sprocket shaft	54-E74 All	5 Pk
	79347	35151-52A	Oil seal, sprocket shaft	54-E74 All	5 Pk
85	10618	60348-65	Drain plug, 1/2-20 magnetic	67-on XLH, 70-on XLCH	Each
89	79455	62702-52	Washer, drain plug	54-66 KH, XLH, 54-67 XLCH	10 Pk



# Flywheels



## Complete Flywheel Assembly By V-Twin

- Flywheel is fully assembled and trued
- Includes shafts

PCP	OEM	Application	Years
58000	23906-41	BT 74" OHV	41-53
58044	23907-54A	BT 74"	1954
58047	23907-55A	BT 74"	55-57
58001	23906-58	BT 74"	58-64
58004	23906-65A	BT 74"	65-69



## BT 4-1/4" Stroker Kit

Top quality stroker kit made in Japan  
**58045** 1958-64



## Genuine Torrington Bearing Set XL L58-90

**15632** 4 Piece set

## Breather Valve with Gear

• Fits 1972-76 XL and replaces 26331-72  
**19703**



## Pinion Bushing

PCP	Description
18526	XL 1957-76 (25593-57)
31375	XL 1957-76 .005 (Jims)
31376	XL 1977-on (25593-74) (Jims)



## Jims Pinion Shaft Spacer

**31043** 24703-54B



## Pinion Bearing/Race XL 77-85

**29140** 24648-77



**58054**



**58055**

## Sportster Stock Flywheel Assemblies

Comes assembled and trued with shafts.

### PCP Application

<b>58054</b>	XL 1957-76 (23900-57A)
<b>58055</b>	XL 1977-80
<b>58056</b>	XL 1981-85



## Colony Motor Case Kit

PCP	Application	Style
<b>9878</b>	XL 1957-76	Stock cad
<b>9879</b>	XL 1977-90	Stock zinc



## Sportster Crank Pin Flywheel Washers

Sold in pairs. Bronze washers except where noted.

PCP	OEM	Application	Size
<b>11520</b>	6506	L1972-86	Standard
<b>11523</b>	6506B	L1972-86	.005 oversize
<b>1100</b>	23972-57	1957-71 (steel)	.072
<b>11525</b>	23972-57A	1957-71	.073 with fly cut
<b>4118</b>	23972-72	1972-E79	.062
<b>11528</b>	23972-72B	1972-E79	.005 oversize



# BT Motor Shafts



## Motor Nuts Master Listing

Crank Pin Nuts				
PCP	JIMS	OEM	Year	U/M
12532	31003	23966-36	36-52 BT	Pr
12599	31004	23966-54A	54-E81 BT	Pr
12535		23969-80	L81-E83 BT	Pr
12534	31005	23967-54A	54-E81 XL 1"-20	Pr
12530	31001	23901-81	L81-on XL	Pr



## BT Shafts Master Listing

• Sold each

Sprocket Shafts			
PCP	JIMS	OEM	Year
970	31205	24001-30	30-54
1024	31206	24001-55	1955
1025	31207	24001-56	56-64
1026	31210	24001-65	65-69
	31213	24001-70	70-71
1035	31214	24001-72	70-71
	31200	23909-80	L81-E85



Special Sprocket Shafts		
• Use to install 81-86 80" 6° mainshaft flywheels in 56-69 BT		
32512	Custom	56-64
32513	Custom	65-69

Sprocket Shaft Nuts				
PCP	JIMS	OEM	Year	U/M
12537		24003-30	30-54 BT	Ea
12538	31014	24003-55	55-69 BT	Ea
12541	31008	24017-80	72-E85 BT	Ea
12543	31009	24023-36	36-E81 BT	Ea
12539		24016-80	L81-89 BT	Ea
12569		40392-70	70-90 BT	Ea
12524		8025	57-69 XL	Ea
12568		40387-70	70-88 XL	Ea
	31002	23902-81	L81-85 XL	Ea



Pinion Shaft Nuts				
PCP	JIMS	OEM	Year	U/M
12543	31009	24023-36	36-E81 BT	Ea
	31016	24023-54	54-89 BT	Ea
12539		24016-80	L81-89 BT	Ea
	31002	23902-81	L81-85 XL	Ea

Pinion Shafts			
PCP	JIMS	OEM	Year
1030	31249	24007-39	39-53
1032	31244	24006-54A	54-57
1033	31245	24006-58	58-72
1046	31246	24006-73	73-81
2743	31247	24006-80	L81-E83

# Rods



## Preston Stock Replacement Rod Sets

- Includes new rods, crank pin nuts, cages & Std rollers
- Piston pin bushings are installed & honed for stock wrist pin

PCP	OEM	Year	Application
34000*	22427-37	36-51	61" Panhead, Knuckle (step pin)
34001*	24281-41A	41-73	74" Panhead, Shovelhead
*Note: Rod sets include steel rod roller cages			
34002	24281-74A	74-E81	74" & 80" Shovelhead
34009	24281-74A	74-E81	+ .120" across beams
34003	24281-80	81-83	80" Shovel
34005	24275-57	57-80	XL 900-1000
34006	24275-80A	81-85	XL 1000

•Always check rod roller fitting before assembly•



## BT Rod Bearing Sets 1941-99

- Torrington rod bearings with steel cages
- They will retro fit to 1941.

JIMS	S&S	Application	Years	Size	OEM
31169	344010	BT	41-99	STD	24356-87A



## Rod Bearing Sets with Cages

- Cages fitted with standard size Torrington rollers
- For connecting rods

PCP	OEM	Year	Application	Cages
15850	24385-40B	41-86	74" & 80" BT	Alloy
15840	24370-52B	52-86	XL	Alloy

## S&S Supreme Connecting Rods

- made even stronger than S&S's heavy duty rods
- are recommended for all drag strip applications and any street situation where the best is warranted
- Includes steel cages

PCP	Model	Year	Description
347206	BT OHV	41-80	.791 pin O.D. 7.440
347210	80 OHV	81-84	.791 pin O.D. 7.440
347700	XL	57-80	3-5/16" bore .791 pin OD
347710	XL	57-80	89" Stokers .791 pin OD
347720	XL	81-85	89" Stokers .791 pin OD

## S&S Heavy Duty Connecting Rods

- recommended for any street application
- Includes steel cages

347003	EL 61"	36-52	With step crank pin
347004	BT OHV	41-80	.791 Pin O.D. 7.440"
347011	80 OHV	81-84	.791 Pin O.D. 7.440"
347500	XL	57-80	7.440" rods
347510	XL	81-85	7.440" rods



## S&S Alloy Rod Bearing Retainers

Replacement roller type for Harley connecting rods.

- 344020 1941-99 BT (24366-71, 24367-71)
- 344520 1954-86 XL (24362-54A, 24364-54A)



## Connecting Rod Cage Set

- Constructed of iron

PCP	JIMS	S&S	Years	Application
10721	31047	344010	41-81	74" & 80" BT OHV
10720	-	-	54-86	XL

# Rod Components



## Crank Pins

• American made pins are made of heat treated steel

PCP	Application	OEM	Holes	Brand
976	61" - 80" 40-52	23962-40	3	Eastern
31146	61" OHV 40-52 74" & 80" S/V		Step	JIMS
975	41-E81	23961-41	3	Eastern
31136	41-E81		1	JIMS
31137	41-E81		3	JIMS
31150	41-E81 (less end play)		1	JIMS
31151	41-E81 (less end play)		3	JIMS
31148	41-E81 (A Cut Above)			JIMS
3380	L81-99	23961-80A	3	Import
31140	L81-99		3	JIMS
31142	L81-99 AF (new oil location)		3	JIMS
31149	L81-99 (A Cut Above)		3	JIMS
1098	54-E81 XL	23960-54	3	Eastern
31132	54-E81 XL		3	JIMS
3412	L81-99 XL	23960-80A	3	Import
31133	L81-99 XL		1	JIMS
31134	L81-99 XL		3	JIMS



## S & S Crank Pin

• Includes 2 nuts and key

PCP	OEM	Year	Application
342003	23961-41	41-81	74" & 80" OHV BT
342102	23961-80A	81-86 81-99	BT and S&S 1.249 O.D.
342503	23960-54	57-81	XL
342602	23960-80A	81-on	XL and S&S 1.249 OD
342603	23948-87	81-on	XL and S&S 1.250 OD

## Wrist Pin Bushings

- Bronze OEM type bushings for 1936-98 BT
- Sold in pairs

Size	Big Twin		Sportster	
	PCP	JIMS	PCP	JIMS
STD	18507	31354	18504	
+ .002	32051		18598	
+ .005	18508	31355	18505	31353
+ .010	18509		18599	



## Kibblewhite Engine Builder

### Wrist Pin Bushing

• SAE660 bearing bronze construction

PCP	BT 1936-98	UM
32050	Std. O.D.	Pair
32051	+0.002" O.D.	Pair



## Kibblewhite High Performance

### Wrist Pin Bushing

• Machined from solid nickel bronze alloy  
• Exceptional Rockwell hardness

PCP	Application	UM
32049	BT 36-98 Std. O.D.	Ea
32353	XL 57-83 Std. O.D. 0.8972"	Ea



## Connecting Rod Race Sets

• Hardened steel races are designed for extreme pressure

PCP	JIMS	Application	UM
977	31049	BT 1936-on	Set
1102		XL 1957-on	Set

## BT Connecting Rod

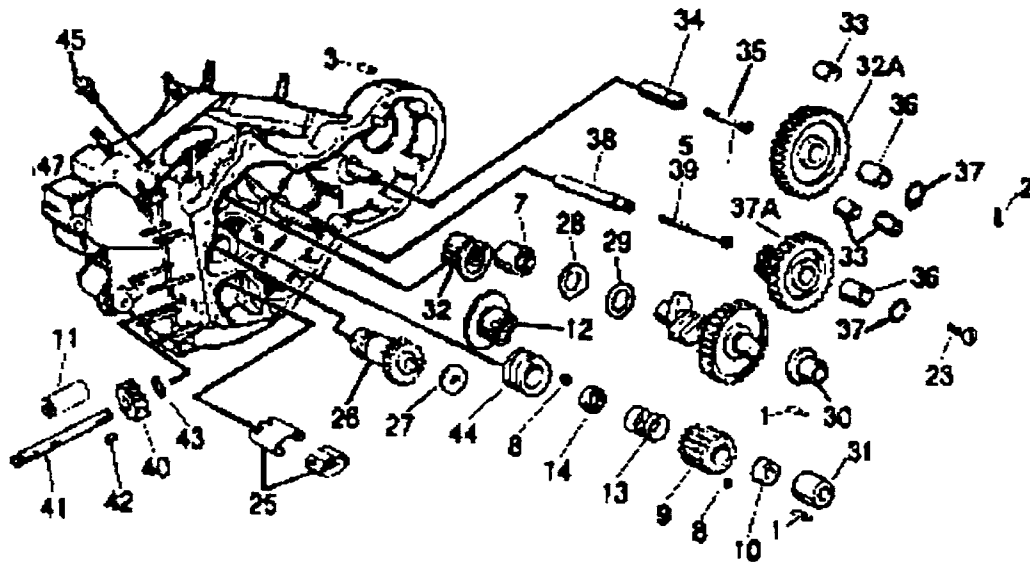
### Roller Sets

• Each set supplies enough rollers for that application only

Size	1941-72 Early BT	1973-on Late BT	1954-85 XL
-.0002	-	15100	15120
STD	2744	1040	2663
.0002	2745	1041	2664
.0004	2746	1042	2665
.0006	2747	1043	2666
.0008	2748	1044	2667
.001	2749	1045	2668
.002	5269	4113	15127
.003	3529	3548	15128



# Cam Cover BT 1936-69



	PCP	OEM	Description	Year	U/M		PCP	OEM	Description	Year	U/M
1	10155	275	Dowel/Pin (2) 1/8x1/4	41-69	10 Pk	30	18511	25581-36	Bush Cam Cov STD	41-69	Each
2	10195	327	Dowel Pin 1/8x3/4	41-69	10 Pk	31	18512	-	Bush Cam Cov +.005	41-69	Each
3	10196	377	Dowel Pin Gear Cov (2)	41-64	Pair		18515	25582-36	Bush Pinion STD	36-53	Each
	10114	378	Dowel Pin Gear Cov	65-69	Pair		31362	-	As above, Jims		
5	24501	1430	Screw Circuit L/H	L59-69	Each		18516	--	Bush Pinion +.005	36-53	Each
7	15607	9058	Bearing Cam	58-*	Each		31363	-	As above, Jims		
8	10306	23985-54	Key Pinion (2)	54-89	10 Pk		18517	25582-54	Bush Pinion STD	54-E73	Each
9	30114	24010-39	Pinion Gear	39-53	Each		31364	-	As above, Jims		
	334124	24010-54	Pinion Gear	54-77	Each		18610	--	Bush Pinion +.005	54-E73	Each
10	12544	24023-54	Nut, Pinion	54-*	Each		31365	-	As above, Jims		
11	18510	24641-36	Bushing, Pump	36-*	Each	32	18529	25597-36	Bush Inner Cam STD	36-57	Each
12	3387	24697-40	Pinion Seal Ring	40-53	Each		31378	-	As above, Jims		
13	13123	24699-37	Spring Pinion	39-69	10 Pk		18530	--	Bush Inner Cam .005	36-57	Each
14	2781	24703-40	Spacer, Pinion	40-53	Each		31379	-	As above, Jims		
	1193	24703-54	Spacer, Pinion	54-*	Each	32A	30121	25775-36	Idler Gear	36-69	Each
23	5362	25218-63	Bolt, Oil Passage	63-69	Each	33	18534	25785-30A	Bush Idler Gear (3)	41-69	Pair
25	30118	25275-36	Breather Screen	36-69	Kit	34	1088	25791-36	Idler Gear Stud	36-69	Each
		25279-36	Separator Breather	41-69		35	24506	25794-36	Idler Gear Stud Screw	36-69	Each
26	30128	25300-36	Steel Breather	48-77	Each	36	1199	25800-36	Space/Idle/Circuit (2)	41-69	Pair
	30135	25313-73	Steel Breather Valve	41-77	Each	37	11058	25810-15	Snap Ring/Idler (2)	32-69	10 Pk
27	11540	25313-50	Thrust Washer .115	50-E79	5 Pk	37A	30120	25850-36A	Circuit Drive Gear	36-69	Each
	11541	25314-50	" " .120	50-E79	5 Pk	38	1089	25856-36	Stud/Circuit Gear	36-69	Each
	11542	25315-50	" " .125	50-E79	5 Pk	39	24507	25859-36	Screw/Drive Gear	41-58	Each
	11543	25316-50	" " .110	50-E79	5 Pk	40	650	26345-39	Drive Gear Pump 25T	39-72	Each
	11544		Set of above	50-E79	4 Pk	41	1406	26346-36	Shaft, Oil Pump	41-67	Each
28	11529	25550-57	Lock Washer	58-*	5 Pk		1408	26346-70	Shaft, Oil Pump	70-99	Each
29	13521	25555-84	Cam Washer .045	41-*	5 Pk	42	10310	26348-15	Key Pump	36-69	10 Pk
	13522	25550-36	" " .050	41-*	5 Pk	43	11060	26348-36	Snap ring	36-69	10 Pk
	13523	25551-36	" " .055	41-*	5 Pk	44	30110	26349-39	Gear, Oil Pump	39-53	Each
	13524	25552-36	" " .060	41-*	5 Pk		781	26349-54	Gear, Oil Pump	54-72	Each
	13525	25553-36	" " .065	41-*	5 Pk	45	N/A	63526-57	Fitting Oil Line	57-*	
29	13526	25554-36	" " .070	41-*	5 Pk						
	13527	25555-36	" " .075	41-*	5 Pk						
	13528	25556-79	" " .080	41-*	5 Pk						
	13529	25557-79	" " .085	41-*	5 Pk						
	13530	25558-79	" " .090	41-*	5 Pk						
	13531	25559-79	" " .095	41-*	5 Pk						
	13532	-	" " .100	41-*	5 Pk						
	13520		Asst. of sizes .050-.095		10Pk						

## Jims BT Cam Cover Bushings

PCP Description (Each)  
31357 BT 1936-69 (25581-36)



31357

\* Must use 1979-82 Steel Thrust Washer

# BT Cam Covers 37-69



30217

## Chrome Cam Cover

- Forged alloy with 4 fins

Chrome	Years	OEM
30216	48-53 BT	25216-65
30217	54-62 BT	25216-66

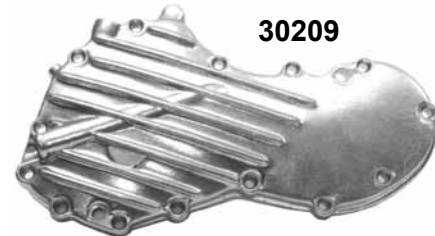


30215

## Flatside Style Cam Cover

- Aluminum cover with bushings
- PCP #30214 accepts oil passage bolt.

Stock	Chrome	Years	OEM
30214	30218	63-65	25216-65
30215	30219	66-69	25216-66



30209



30211

## Big Twin Gear Cover 1936-69

- Stock natural finish
- Includes bushings and breather pipe
- Improved oil separator can be used with side or end pinion shaft oiling
- Covers must be reamed for final fit

PCP	Years	Fins	OEM
30207	37-39	Smooth	584-37
30208	40-47	8	25216-36
30209	48-53	8	25216-48
30210	48-53	4	25216-48
30211	54-62	4	25216-58



## S&S Gear Cover Kit 1954-62

Includes installed bushings, gasket, and extraction screws. Requires 1954-69 pinion shaft and mounting screws with countersunk heads (not included).

Replaces OEM 25216-54,65,66.

**310240** 1954-69 Requires 1/4-20 screws on cover and 5/16-24 for generator

**310201** 1936-53 requires 1936-53 pinion shaft and screws

## Oil Passage Bolts

Chrome	Cad	Years
5362	8772	63-69



## Colony Cam Cover Screws



## BT Cam Cover Screws

- Chrome finish

Allen	Acorn	Cap	Years	Thread
2160	1703	-	36-69	1/4-24
9794	-	-	36-69	1/4-20*

\*Special thread for aftermarket 1/4-20 cases



Cap

Acorn



## BT Timing Cover Screw Kit

Chrome	Cad	Years
72101	72102	50-52



## Timing Cover Screw Kit

- Chrome Allenhead screws

Chrome	Years	Thread
5347	36-69	
9827	36-69	1/4-20*

\*Special thread for aftermarket 1/4-20 cases



9621

## OEM Style Gearcover Screws

- 1/4-24 Stock thread or 1/4-20 thread

Chr.	Cad	Parker.	Years	Thread
2160	5192	9621	36-69	1/4-24
9794	9795	9796	36-69	1/4-20*

\*Special thread for aftermarket 1/4-20 cases



79278

## James Cam Cover Gaskets

- Replaces 25225-36

PCP	Year	Type	U/M
79278	41-69	Paper	10
79582	41-69	Paper with silicone bead	5

# BT Cam Cover 36-69



**S&S Circuit Breaker Drive Gear BT 36-69**  
 334215 Std clockwise rotation (25850-36A)

**S&S Idler Gear Assembly BT 36-69**  
 334216 Replaces 25775-36

**S&S Circuit Breaker Gear**  
 Gear with roll pin fits BT 1936-69 and features std clockwise rotation. Replaces OEM 32531-36.  
 334217

**S&S Generator Crankcase Gear Kit BT 36-69**  
 Includes circuit breaker drive gear and idler gear assemblies, circuit breaker gear and two shims. Features std clockwise rotation.  
 334226

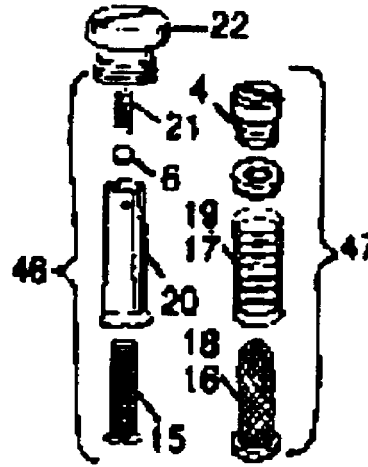


**S&S Shafts**  
 312037 Intermediate shaft 1936-69  
 312039 Idler gear shaft 1936-69



## BT Circuit Breaker Stud & Bushing Kit

PCP	Years	Notes
30143	36-69	Does not include screw
30144	36-58	
30145	59-69	



	PCP	OEM	Description	Year	U/M	
	4	10580	655	Plug Oil Screen	66-69	Each
	6	15570	8856	Ball, Oil Screen	52-57	10 Pk
	15	13400	24975-52	Oil Screen	L52-62	Each
	16	N/A	24975-63	Oil Screen	63-E66	Each
	17	13125	24979-63	Oil Screen Spring	63-E66	Each
	18	13402	24981-66	Oil Screen	66-69	Each
	19	13126	24982-66	Oil Screen Spring	66-69	Each
	20	30116	24985-52	Check Valve Body	L52-62	Each
	21	13128	24992-52	Spring Oil Screen	52-62	Each
	22	3585	24987-52	Cap Check Valve	L52-65	Each
	46	2961	--	Tappet Screen Kit	52-57	Kit
	47	2989	--	Tappet Screen Kit		



## Circuit Breaker Drive and Idler Gear

Fits 1936-69 BT. Order shims separately to fit. Available as lightening with holes or solid. \*Note: for high lift cams.

PCP	Type	Style
30121	Idler	Solid (25775-36)
19661	Idler	Lightening (25775-36)
30120	Drive	Solid (25850-36A)
19664	Drive	Lightening (25850-36A)
19663	Drive	Solid (25850-36B)

# BT Breather



## S&S BT Steel Breather Gear Kits

Machined breather valve and gear by S&S. Designed to replace the stock steel or plastic OEM parts. Offered in stock duration only in stock O.D. and +.030 oversize (for use in worn or damaged breather holes). Washers are also available separately in sets

PCP	Description
334243	Gear only STD size 1936-47 (slotted) Knuckle
334252	Gear kit 1936-47 STD (25300-36)
334246**	Gear only, Std size 1948-E77 (25313-73)
334247**	Gear only, +.030 1948-E77
334253	Gear kit 1948-E77 STD (25313-73)
334263	Gear kit 1948-E77 +.030"
334241	Gear only, Std size L1977-99 (25313-77A/B)
334242	Gear only, +.030 L1977-99
334250*	Valve gear kit, Std L1977-99 (25313-77A/B)
334260*	Valve gear kit, +.030 L1977-99
334249	Washer set BT 1939-99 (8pc)

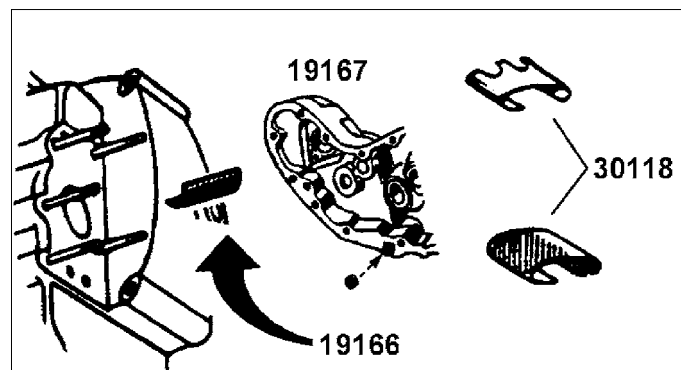
\*NOTE: Requires the use of 1977-on style and diameter cam and pinion gears; and steel spacing shims.

\*\*NOTE: Must be used with 1954-77 pinion & cam gears; and steel spacing shims

## S&S BT Steel Breather Gear & Valve Gear Kits

Machined breather valve and gear by S&S. Designed to replace the stock steel or plastic OEM parts. Offered in stock duration only in stock O.D. and +.030 oversize (for use in worn or damaged breather holes). Washers are also available separately in sets.

PCP	OEM	Description
334243	25300-36	Gear only, Std size 1936-47
334249		Washer set, 8pc, 39-99



## Breather Screens and Separator

PCP	OEM	Description
30118	25275-36 25279-36	Screen and separator BT 1936-69
4428	26276-52	Scavenger screen XL 1952-73



## ET Breather Kit

PCP	Years
30126	48-77
30127	L78-85



## BT Breather Valve

PCP	Years	OEM
30135	41-77	25313-73
30168	L77-99	25313-77A



## Jims BT Breather Valve Gear

- Steel CNC machined breather valve
- Controls exhaust crank case pressure
- +.030" to correct a damaged breather valve hole.

Size	48-E77	L77-99
STD	31252	31254
+.030"	31253	31255

# Pinion Gear



## Jims Pinion Gear BT 1954-77

• Replaces 24010-54

PCP	Size	Colour
31301	1.4490-1.4485	Orange
31302	1.4485-1.448	Black
31303	1.4480-1.4475	Red
31304	1.4475-1.447	Blue
31305	1.4470-1.4465	Green
31306	1.4465-1.446	White
31307	1.4460-1.4455	Brown
31308	1.4455-1.445	Yellow

## Jims Pinion Gear BT 1977-89

• Replaces 24040-78

PCP	Size	Colour
31309	1.4751-1.4756	Orange
31310	1.4745-1.4751	White
31311	1.4737-1.4745	Yellow
31312	1.4729-1.4737	Red
31313	1.4721-1.4729	Blue
31314	1.4715-1.4721	Green
31315	1.4710-1.4715	Black

## BT Pinion Parts 1937-69

Kit is complete with all parts necessary for the application.

PCP	Years	Fit	U/M
19296	36-53	OHV only	5
19297	55-69	BT	4



L-R: early, mid and late pinion gears

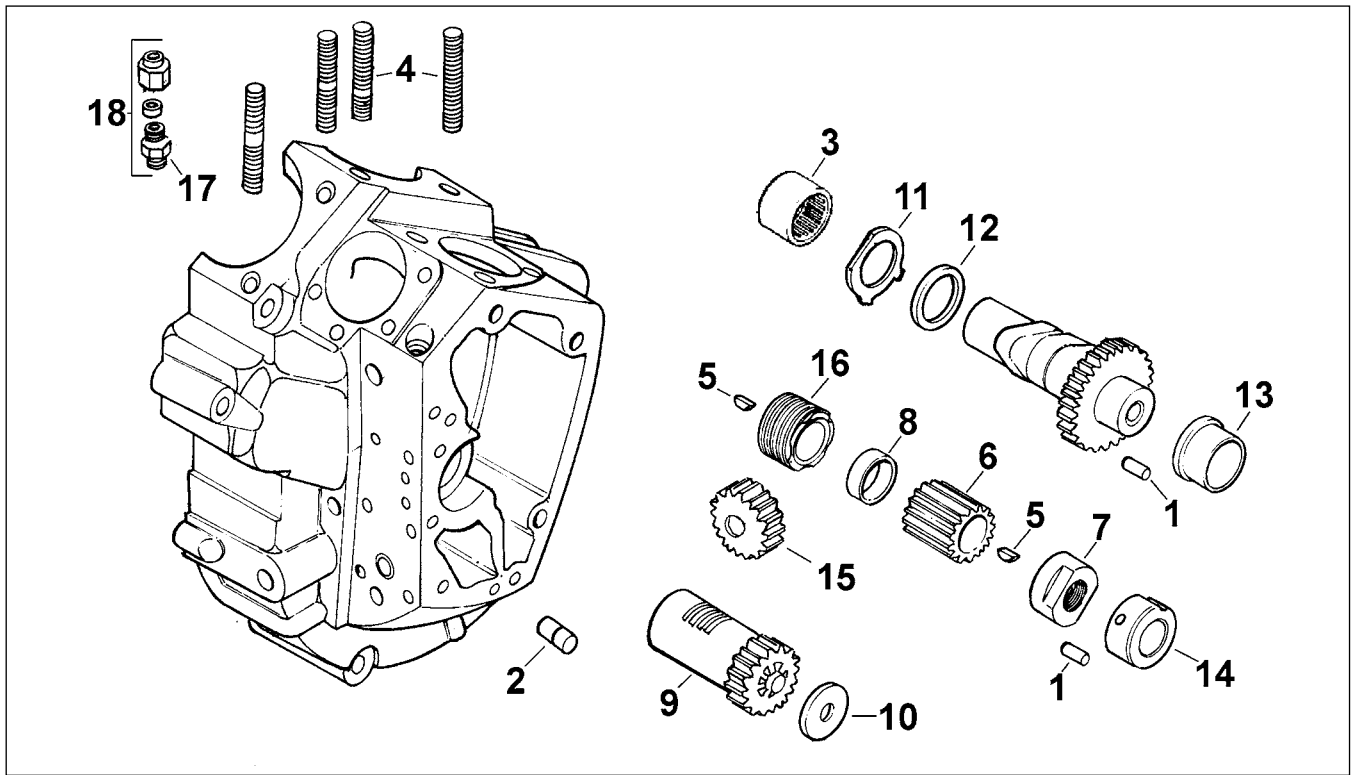
## S&S Big Twin Pinion Gears and Related Parts

Engine	Pinion Shaft Colour (ordered L-R by largest to smallest)								Pump Drive Gear	Gear Spacer	Gear Nut	Key (10 pk)
	Largest	Average			Smallest							
1939-53	Orange	Black		Blue	Green	White	Brown	Yellow				
		<b>334102</b>						<b>334107</b>	<b>334237*</b>			
1954-77	Orange	Black	Red	Blue	Green	White	Brown	Yellow				
	<b>334121</b>	<b>334122</b>	<b>334123</b>	<b>334124</b>	<b>334125</b>	<b>334126</b>	<b>334127</b>	<b>334128</b>	<b>334232*</b>	<b>334289</b>	<b>334244</b>	<b>10306</b>
1977-89	Orange	White	Yellow	Red	Blue	Green	Black					
	<b>334141</b>	<b>334142</b>	<b>334143</b>	<b>334144</b>	<b>334145</b>	<b>334146</b>	<b>334147</b>		<b>334232</b>	<b>334289</b>	<b>334244</b>	<b>10306</b>

Notes: Gear sizes are listed from largest (Orange) to smallest (Yellow/Black). This colour coding sequence is identical to stock H-D coding. When in doubt use a gear from the middle to the small side of the range. A combination of smaller gears should provide adequate gear clearance under most circumstances. Both excessive and zero gear lash combinations cause engine noise, but no clearance or zero gear lash causes binding and premature wear. \* Requires H-D #26345-73 oil pump drive shaft drive gear, Preston #2268 or Jim's #31350



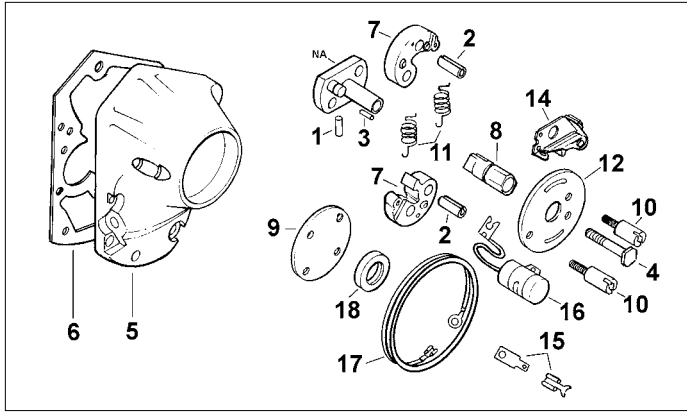
# BT Cam Case 1970-on



## Big Twin Gear Case 1970-on Shovel

PCP	OEM	Description	Year	U/M	PCP	OEM	Description	Year	U/M				
1	10155	275	Dowel pin (2)	57-on	10 Pk	10	11565	25326-82	" "	.155	L82-*	5 Pk	
2	10112	358	Dowel pin (2)	41-on	10 Pk		11566	25327-82	" "	.160	L82-*	5 Pk	
3	15607	9058	Cam bearing	58-99	Each		11567	25328-82	" "	.165	L82-*	5 Pk	
4	5472	16831-30	Cylinder stud	30-77	8 Pk		11568	-	Ass't of above sizes		L82-*	8 Pk	
	5473	16837-78	Cylinder stud	78-84	8 Pk	11	11529	25550-57	Lock washer, cam		58-*	5 Pk	
5	10306	23985-54	Key, pinion	54-89	10 Pk	12	13522	25550-36	Cam washer .050		36-*	5 Pk	
6	31304	24010-54	Pinion gear (blue)	54-77	Each		13523	25551-36	" "	.055	36-*	5 Pk	
7	12544	24023-54	Nut, pinion	54-89	Each		13524	25552-36	" "	.060	36-*	5 Pk	
8	1193	24703-54	Spacer, pinion	54-89	Each		13525	25553-36	" "	.065	36-*	5 Pk	
9	30128	25300-36	Breather, steel	48-77	Each		13526	25554-36	" "	.070	36-*	5 Pk	
	30135	25313-73	Breath valve, steel	41-E77	Each		13521	25555-84	" "	.045	36-*	5 Pk	
	30119	25310-82A	Breath valve, plastic	L77-99	Each		13527	25555-36	" "	.075	36-*	5 Pk	
	30168	25313-77A	Breather valve, steel	L77-99	Each		13528	25556-79	" "	.080	36-*	5 Pk	
10	11540	25313-50	Breather washer .115	50-E79	5 Pk		13529	25557-79	" "	.085	36-*	5 Pk	
	11541	25314-50	" "	.120	50-E79	5 Pk	13530	25558-79	" "	.090	36-*	5 Pk	
	11542	25315-50	" "	.125	50-E79	5 Pk	13531	25559-79	" "	.095	36-*	5 Pk	
	11543	25316-50	" "	.110	50-E79	5 Pk	13532	-	" "	.100	36-*	5 Pk	
	11544	-	Ass't of above (steel)	50-E79	4 Pk		13520	-	Ass't (.050-.095)			10Pk	
	11550	25320-79	Breather washer .110	L79-E82	5 Pk	13	18513	25581-70	Cam bushing cover		70-*	Each	
	11551	25321-79	" "	.115	L79-E82	5 Pk		18514	--	" " "	.005	70-*	Each
	11552	25332-79	" "	.120	L79-E82	5 Pk		18629	" " "	.010	70-*	Each	
	11553	25323-79	" "	.125	L79-E82	5 Pk	14	18517	25582-54A	Pinion bushing cover		54-E73	Each
	11554	25325-79	" "	.130	L79-E82	5 Pk		18610	" " "	.005	55-72	Each	
	11555	25326-79	" "	.135	L79-E82	5 Pk		18518	25582-73	Pinion bushing cover		L73-92	Each
	11556	25327-79	" "	.140	L79-E82	5 Pk		18639	As above +.005			Each	
	11557	25328-79	" "	.145	L79-E82	5 Pk	15	650	26345-39	Pump drive gear 25T		39-72	Each
	11558	-	Ass't of above (steel)	L79-E82	8 Pk		2268	26345-73	" " "	24T	73-91	Each	
	11560	25320-82	Plastic washer .130	L82-*	5 Pk	16	781	26349-54	Pinion pump gear		54-72	Each	
	11561	25321-82	" "	.135	L82-*	5 Pk		544	26349-73A	Pinion pump gear		73-on	Each
	11562	25322-82	" "	.140	L82-*	5 Pk	17	N/A	63526-57	Fitting, oil line		63-84	
	11563	25323-82	" "	.145	L82-*	5 Pk	18	2260		Chrome fittings kit		57-85	12Pc
	11564	25325-82	" "	.150	L82-*	5 Pk							

# BT Cam Case



## Big Twin Cam Cover (Points Ignition) 1970-78

	PCP	OEM	Description	Year	U/M
1	10127	615	Pin breaker plate	70-78	10 Pk
2	10183	620	Pin breaker weight	70-78	10 Pk
3	10115	623	Pin	70-78	10 Pk
4	2556	3570	Timer bolt	70-on	Each
5	45469	252268-84A	Chrome gear cover	73-92	Each
6	79280	23225-70B	Gasket, James .030	70-92	10 Pk
	79282	25225-70-X	Gasket, black w/silicone	70-92	5 Pk
7	2555	32522-70	Advance weights	70-78	Pair
8	30052	32542-70A	Cam, breaker	70-78	Each
9	79565	32591-70	Gasket 2 hole	70-79	10 Pk
	25110	32591-80	Gaskets 4 hole	80-99	10 Pk
10	10844	32601-78	Stud timer cover	L72-E82	Pair
	10846	32606-82	" " "	L82-99	Pair
	10896		OS w/12-24 threads	82-99	Pair
11	12165	32605-70	Advance springs	70-78	10 Pk
12	3333	32618-70	Points plate, bare	70-78	Each
14	724	32661-70	Points	70-78	10 Pk
16	727	32726-30A	Condensers	48-78	10 Pk
18	14074	83162-51	Oil seal cover	70-99	5 Pk
	79503		As above w/double lip		5 Pk

## Jims Pinion Shaft Spacer

31043 24703-54B



## BT Cam Cover Bushings

• Sold each

Size	JIMS	PCP	Years	OEM
STD	31357	18511	36-69	25581-36
STD	31359	18513	70-99	25581-70
.005	31360	18514	70-99	
.9875	31361		70-99	25581-80AB



## BT Cam Bushing Kit

• Includes cam and gear shaft bushings/bearings with lock pins and thrust plate.

PCP	Years
15405	36-53
15404	54-57
15403	58-69
15402	70-72
15401	73-92



## BT Cam Cover Gaskets 1970-84

James Brand	OEM #	Year	Description	U/M
79280	25225-70-B	70-92	Gasket, .031 black paper	10
79281	25225-70-K	70-92	Gasket & seal quick change w/.031 paper cam gasket	kit
79580	25225-70-KX	70-92	Gasket & seal quick change w/coated steel cam gasket	kit
79282	25225-70-X	70-92	Gasket, .031 paper with bead	5
79561	25225-70-XM	70-92	Gasket, .036 metal core w/silicone on 2 sides (excellent torque retention)	ea
79565	32591-70	70-79	Point gasket, 2 hole	10
79502	83162-51	70-99	Oil seal, cam gear shaft, metal O.D.	5
79503	83162-51-DL	70-99	Oil seal, cam gear shaft, rubber O.D.	5



# BT Cam Cover



45467



45469



45049

## BT Nose Cone Gear Covers

- 1970 -E73 BT with side oiling pinion shaft
- 1973-on BT with end oiling
- Come with bushings installed and includes seal

Chrome	Polished	Years	OEM
45467	-	70-72	
45469	45470	73-92	25216-73, 25258-80B

## Chrome Cam Cover BT 1970-92

- Stamped steel cover encloses cam and point cover
- Includes mounting hardware.

45049



27531



## Chrome Nose Cone Cover BT 1970-92

- Slips over your existing nose cone
- Mount with existing hardware

45332

## Ignition Wire Hold-Downs (5 packs)

Die-cast aluminum, chrome-plated ignition wire hold-downs neatly secure the ignition wire to the cam cover. They accept a socket head screw (not included).

**27530** Small wire hold-down for point-type ignitions

**27531** Large wire hold-down for electronic-type ignitions.



## FX Timing Cover Screw Kit

- Smooth polished chrome or stainless steel screw kits

Chrome	S/S	Years
8761	24038	70-92



## OEM Style Cam Cover Screws

Chrome	Cad	Years
9305	9306	70-80 BT



## BT Cam Cover Screws

- Chrome finish

Allen	Acorn	Cap	Years
5353	1748	8466	70-92



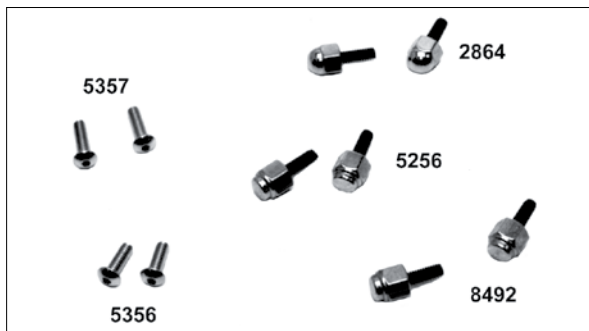
Acorn

# BT Point Covers



## BT Two Hole Multi-Fit Point Covers

PCP	Design	Finish	Fitment	Holes
3409	Domed	Smooth chrome	1970-99 BT	Any
5486	6 Bolt Domed Racer	Chrome with 6 non-functional buttonhead allen screws	1970-99 BT	
45112	LTR-Eagle Spirit	Chrome	1970-99 BT	Horizontal
45212	LTR-Eagle Spirit	Chrome with gold overlay	1970-99 BT	Horizontal
59001	Spinner	Chrome with multi-holes	1970-99 BT	
44065	Mesh skull	Chrome with black mesh skull	1970-99 BT	Horizontal
45482	Raised skull	Chrome with black eyes	1970-98 BT	Horizontal
44136	Chained Skull	Chrome	1970-99 BT	Horizontal
44133	Modern skull	Chrome with raised black skull	1970-99 BT	Horizontal
44131	Pirate skull	Black with chrome skull and band	1970-99 BT	Horizontal
59707	Flaming Skull	Polished billet	1970-on BT	Horizontal
45165	Flames	Chrome	1970-98 BT	Horizontal
59186	Maltese Cross	Chrome	1970-98 BT	Horizontal



## Point Cover Allen Screws

Fits BT & XL 1970-on.

PC #	Style	Length	Year
2864	Acorn	.400	70-99
5256	Cap	.400	70-99
8492	Gold Cap		70-99
5356	B/Head	.500	70-78
5357	B/Head	.600	79-99



## Ignition Cover Gasket

Use on all 1970-99 Twins.

Preston	James	Type (10 pack)
-	79565	2-Hole (32591-70)
25110	79309	4-Hole (32591-80)
25224	-	2 Hole rubber

## Points Plate Hardware Kit

Screws, nuts, and washers to mount points plate.  
 24004 1970-78 (11 piece kit)

# BT & XL Cam Cover



## S.S. Competition Advance Mechanism

Rivera Engineering's advance unit features:

- Stainless steel: shaft, plate, pins and washers
- Heat treated and coated advance weights
- BT 1970-99 mechanical advance applications

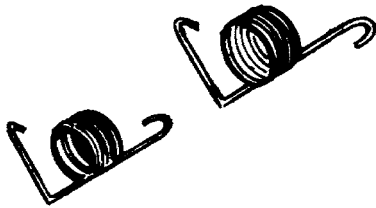
**76009** Replaces 32505-78A



## Tuneable Advance Unit

- Features stainless base, heat treated weights, cam bolt and colour coded springs
- Can be used with all ignitions which utilize an advance unit
- Springs also available separately

**28127**



## Advance Weight Spring BT & XL 1970-99

PCP	Type	Colour	RPM	Uses	U/M
<b>12165</b>	Stock	Black	1400	OEM style	10
<b>13001</b>	Heavy	Silver	2000	For slightly modified stock low compression or mild Stroker. Helps solve minor idle problems.	Pr
<b>13002</b>	Severe	Gold	2600	High compression and heavily modified engines. Also for engines experiencing pinging or erratic idling.	Pr



## Advance Unit Assembly

- Replacement unit for stock 1970-E78 models
- Can use to convert L78 models with electronic ignitions back to point style ignitions

**681** Complete kit

**4396** Points wire only

**28123** Kit with needle bearings



## Needle Bearing Advance Unit

- Includes base: cam, weights and stock springs
- Weights feature miniature needle bearings
- For all ignitions which utilize an advance unit
- Various springs are available separately
- Fits BT 1970-99 & XL 1971-on

**28123**



## Rotor & Weight Assembly

Replaces frozen or worn hubs & weights on 1970-78 XL-FX-FL. Includes shaft, weights, springs and cam assembled.

**30054** 32505-78A



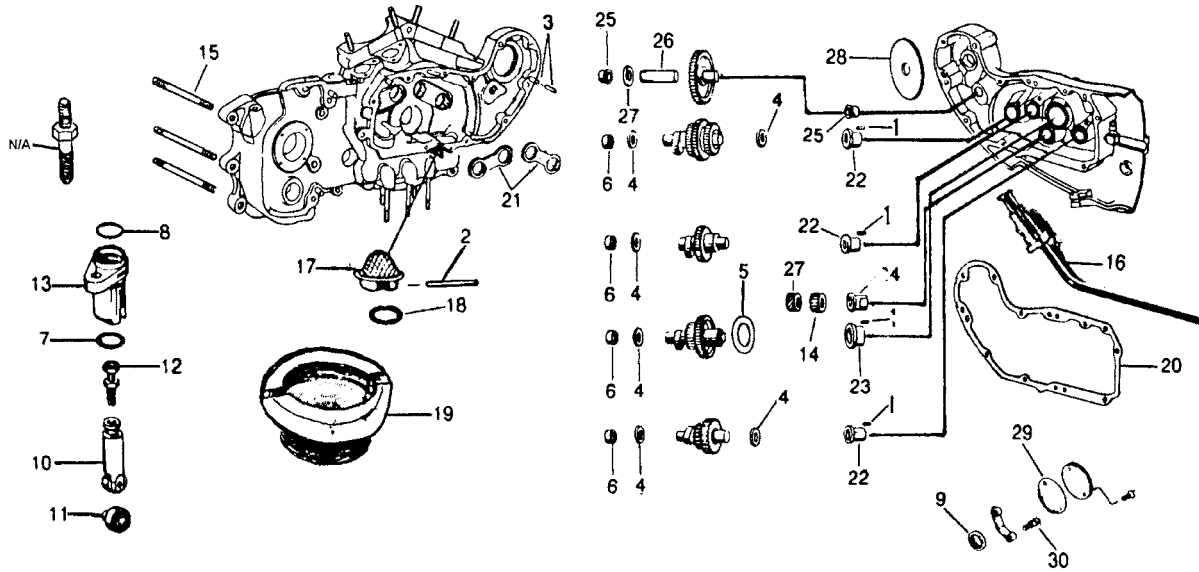
**29100**

## Gold Tone Ignition Rotor Cup

Fits 1983-99 BT and replaces 32402-83.

**29100**

# XL Cam Cover 1957-85



	PCP	OEM	Description	Year	U/M
1	10155	275	Pin, bushing	57-*	10 Pk
2	10139	333	Pin, strainer	52-76	5 Pk
3	10113	375	Pin, casing	57-70	10 Pk
4	13561	6769	Shim cams .007	57-85	10 Pk
	13562	6770	As above .005	57-85	10 Pk
	13582	6771	As above .015	52-*	10 Pk
5	13550	6773	Shim #2 cam .005	52-*	10 Pk
	13551	6775	As above .010	52-*	10 Pk
	13552	6778	As above .015	52-*	10 Pk
6	15606	9057	Bearing cam	58-*	Each
7	14500	11100	'O' Ring, block	57-85	10 Pk
8	14501	11101	'O' Ring, push rod	57-84	10 Pk
	25043	17955-36	Cork, push rod (12)	52-E79	10 Pk
9	14008	11124	Seal, cam cover	71-03	5 Pk
10	2072	18508-52B	Cam follower STD	57-85	Each
	2073	--	Cam follower .005	57-85	Each
	32311	--	Cam follower .010	57-85	Each
11	15614	18534-29A	Bearing	57-85	Each
	15622	--	Bearing set	57-85	Set
	10184	--	Bearing pins	52-85	10 Pk
12	1470	18554-57	Tappet adjusters	57-85	4 Pk
13	31130	18607-57A	Tappet block (Jims)	57-85	Each
14	29020	24011-37	Pinion gear	52-76	Each

	PCP	OEM	Description	Year	U/M
15	N/A	24817-52	Stud (3) casing	54-*	Each
16	1434	24912-52A	Breather pipe, chr.	54-76	Each
17	2671	24975-37	Oil strainer	54-76	Each
18	25059	24978-57	Gasket, strainer	54-81	10 Pk
19	3411	25075-55	Breather valve	52-76	Each
20	79276	25224-52	Gasket, cam cover	52-81	10 Pk
	79288	25263-81	Gasket, cam cover	82-85	10 Pk
21	13711	25551-58	Cam thrust plate	58-*	Each
22	18519	25586-37	Bushing cam	52-*	Each
	18557	--	As above .005	--	Each
23	18521	25588-57	Bushing #2 cam	57-90	Each
	18596	--	As above +.005	--	Each
24	18526	25593-57	Bushing pinion	57-76	Each
	18614	--	As above, +.005	57-76	Each
	18527	25593-74	Bushing cam	77-*	Each
25	18531	25597-57	Bushing idler	57-84	Each
26	10901	25787-57	Stud, idler gear	57-85	Each
27	79116	25811-11	Washer, idler gear	54-74	20 Pk
27A	19291	26318-37	Pump scavenger	57-76	Each
28	12002	31067-63	Washer, generator	58-81	5 Pk
29	25110	32591-80	Gasket 4 Hole	70-*	10 Pk
	79309	--	James, as above	70-*	10 Pk
30	10844	32601-78	Stud, ignition	72-E82	Pair



**Jims Sportster Cam Bushings (each)**  
**31370** XL 1954-on .005 (25586-37)  
**31371** R/Int. XL 1957-90 (25588-57)  
**31372** R/Int. XL 1957-90 .005

**Cam Bushing Kit**  
 XL kits include all cam and gear bushings/bearings, lock pins and shims as required.  
**15408** 1977-85  
**15409** 1957-77

# Sportster 1957-on

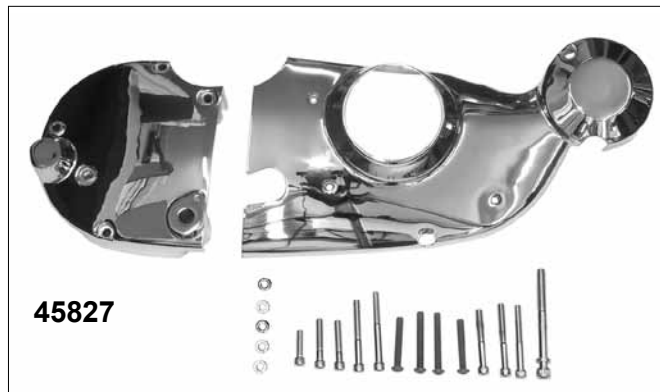


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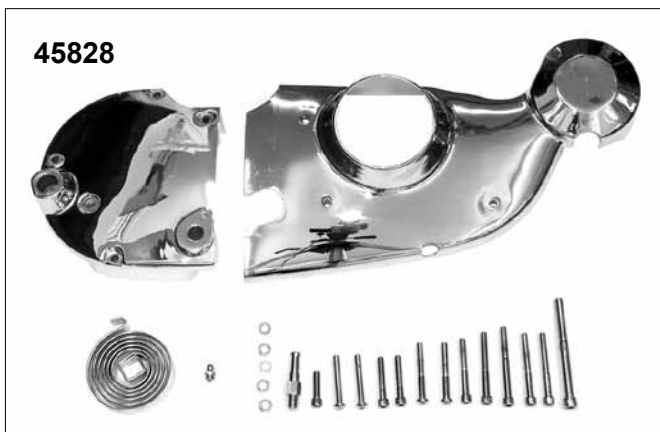
## XL Custom Dress-Up Kit

1980-82 kits include chrome sprocket cover, master cylinder cam cover trim and hardware. Kits for XL 1983-on models fit right side and include chrome steel cam cover trim, sprocket cover, master cylinder reinforcement bracket, and hardware.

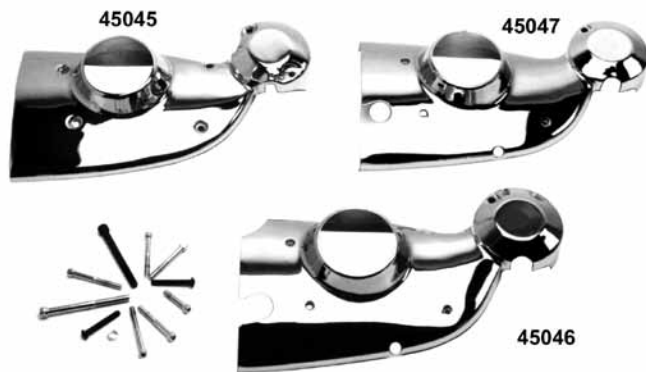
PCP	Year	Drive	Type
45823	1971-76	Chain	Kick
45824	1971-76	Chain	Electric
45825	1971-76	Chain	Kick and electric
45826	1977-78	Chain	Kick
45827	1977-78	Chain	Electric
45828	1977-78	Chain	Kick and electric
45812	1980	Chain	Electric
45813	1981-82	Chain	Electric
45808	1983-90	Chain	Electric



45827



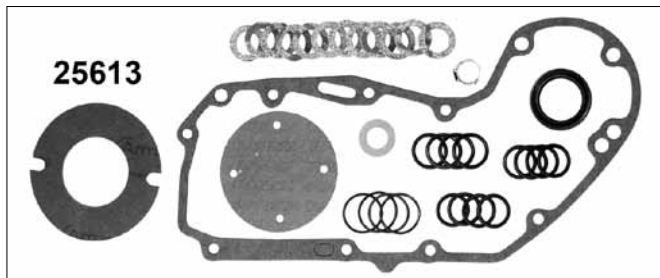
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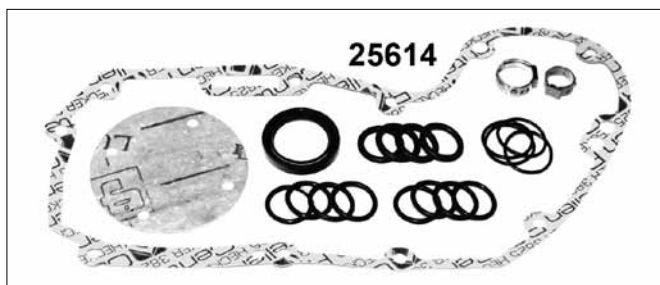
## Chrome XL Cam Covers 1971-on

These form fitting chrome steel covers fit over stock cam cases on 1971-on Sportster models. No need to remove cam case or disturb cams or gears. Both covers held in place by existing screws.

45046	1971-78 XLH electric start
45047	1971-78 XLCH kick start (with hardware)
45019	1979-80 XLH
45053	1981-82 XLH
45045	1983-90 Sportster



25613



25614

## Quick Change Cam Gear Gasket and Seal Kit

Includes both cork and quad seals for pushrods to fit all year ranges.

PCP	Application
25613	1957-81
25614	1982-85



5374 Allen, cam cover screw kit XL 1971-84

## Stock OEM Style Cam Cover Screws

PCP	Application
8895	XL 1954-70 cad (9 pack)



# XL Point Covers



## XL Two Hole Multi-Fit Point Covers

•Vertical 2-hole covers for 1971-85 XL

PCP	Design	Finish	Holes
3409	Domed	Smooth chrome	Any
5486	6 Bolt Domed Racer	Chrome with 6 non-functional buttonhead allen screws	Any
59001	Spinner	Chrome with multi-holes	Any
3102	Ribbed	Chrome	Vertical
59186	Maltese Cross	Chrome	Any
44067	Bird	Chrome	Vertical
45113	LTR-Eagle Spirit	Chrome	Vertical
44064	Mesh skull	Chrome with black mesh skull	Vertical
45483	Raised skull	Chrome with black eyes	Vertical
44108	Raised skull	Black with raised chrome skull	Vertical
44132	Pirate skull	Black with chrome skull and band	Vertical
44137	Chained skull	Chrome	Vertical

## Crankcase Oil Strainer Kit

Reproduction of OEM 24975-37 strainer, gasket (24978-57), pin (333) used on all 1957-76 Sportster.  
72704







## Andrews Sportster Ironhead Cams and Related

Pushrods are available in either steel or aluminum. Steel pushrods are the best choice for stroker motors and drag applications where the greatest strength is needed. For street applications where quiet operation is desired, aluminum pushrods are recommended. Pushrods are made from 7/16 diameter tubing which will not interfere with rod covers. Lower spring collars are similar to late style HD parts and will provide .060 more spring travel over stock collars. High lift cams are easier to install with these collars.

### PCP Item

- 240040** 4 steel pushrods
- 240060** 4 aluminum pushrods
- 277160** 4 lower collars

## Touring and High Performance Cams

PCP	Year	Grind	Timing (*)	CL	Duration (*)		Max Lift	TDC Lift	Application
					.053	.020			
<b>Stock</b>	76-85	Q	10/32 35/07	101 104	222 222	262 262	.400 .380	.114 .114	Specifications for stock Q cams listed for reference and comparison purposes.
<b>214010</b>	57-70	P PB+	34/40 43/31	93 96	254 254	294 298	.400 .410	.200 .192	Kit includes two PB+ exhaust cams (1&4). Must be installed with stock P intake cams. Bolt-in power with no head work required. (Stock P exhaust is .380 lift, 242 deg. duration)
<b>214014</b>	71-80								
<b>214020</b>	81-E84								
<b>214025</b>	L84-85								
<b>214040</b>	57-70	PB+	34/40 43/31	93 96	254 254	298 298	.410 .410	.208 .208	Bolt-in replacement cams for stock P or Q cams. Street grind cam offers more horsepower and torque. Stock springs will rev to 7000 RPM.
<b>214045</b>	71-80								
<b>214050</b>	81-E84								
<b>214055</b>	L84-85								
<b>214080</b>	71-80	Y	35/47 53/29	96 102	262 262	310 310	.425 .425	.206 .182	Street 900/1000. Biggest cam available for no head work installation. Stock springs OK. Great mid-range and upper end power. Best output with CR 9:1 to 10:1.
<b>214085</b>	81-E84								
<b>214090</b>	L84-85								
<b>214110</b>	71-80	R5	33/41 43/31	94 96	254 254	306 306	.445 .445	.209 .200	Street or drag. Stock or modified 900/1000 motors and strokers. Big boost intorque over stock cams (2000-7500RPM). Stock springs OK but checking valve and piston clearances is required.
<b>214115</b>	81-E84								
<b>214120</b>	L84-85								
<b>214135</b>	57-70	X	35/55 57/33	100 102	270 270	314 314	.450 .450	.210 .206	Street or drag. For stroker motors to 76 inches. More mid-range and upper end power. Low lift cams means easier installation in 1977 and later engines. Stock springs are okay but pistons should be 9 to 10 CR.
<b>214140</b>	71-80								
<b>214145</b>	81-E84								
<b>214150</b>	L84-85								
<b>214195</b>	71-80	V9	32/52 52/32	100 100	264 264	311 311	.490 .490	.207 .207	Street or drag. Excellent cams for 65-76 inches. High lift short duration cams for broad RPM and torque curve. RPM range 2500-7000 RPM.
<b>214200</b>	81-E84								
<b>214210</b>	L84-85								

Note: (\*) Timing listed for .053 lift figures  
 1981-E84 cam gear kits with generators do not have tachometer drive gears  
 L1984-85 cam gear kits with alternators (do not have generators)

# Cams

## Andrews Cams For Shovel, Pan , Knuckle

Whether you want a better street cam for a stock motor, a big lift cam for a dragster or something in between, Andrews has it. All Andrews cams for these engines are computer designed and precision ground from alloy steel billets. Rocker arm ratios are: Shovel:1.42, Pan:1.50, Knuckle:1.00. Installation of "S" cams requires machine work. "S" series cams are not made for early Shovel or Pan engines.



Panhead and Shovelhead Cams										
PCP#	Year	Grind	Timing *	Duration		Valve Lift		Lift** @TDC	Spring	Application
				.053	.020	Shovel	Pan			
Stock	Front cylinder	H	-06/46 44/20	220 244	256 282	.390 .390	.412 .412	.051 .176	Stock	Stock H-D front cylinder timing listed for comparison. Later stock "S"Grind cams have similar specs.
Stock	Rear cylinder	H	14/38 44/20	232 244	274 282	.390 .390	.412 .412	.129 .176	Stock	Stock H-D rear cylinder timing listed for comparison. Later stock "S"Grind cams have similar specs.
<b>212011</b>	48-69	J	21/41 41/21	242 242	292 292	.405 .405	.425 .425	.154	Stock	Mild street: Pans and Shovels. Smooth idle with more power through RPM range. Bolts-in with no head work. OK for stock heads.
<b>212020</b>	70-77									
<b>212030</b>	78-84									
<b>212260</b>	48-69	A2	19/43 50/18	242 248	280 290	.450 .450	.470 .470	.156 .142	Stock	Bolt-in Shovel cam (except 1980-81). More mid-range to hi-end power. Idle unaffected. Head set-up required on 1980-81. See notes below.
<b>212263</b>	70-77									
<b>212267</b>	78-84									
<b>212130</b>	48-69	1	16/36 36/16	232 232	288 288	.427 .427	.450 .450	.136 .136	Stock	Low compression piston version of an "A" grind cam for 74-80 engines with 7.5:1 pistons.
<b>212140</b>	70-77									
<b>212150</b>	78-84									
<b>212360</b>	48-69	B	26/50 50/26	256 256	298 298	.485 .485	.507 .507	.182 .182	Hi-Lift	Street/Drag: Much more mid-range and high-end power. Smooth idle. For modified 74s, 80s and small strokers. Spring spacing required.
<b>212353</b>	70-77	B2	26/50 53/25	256 258	295 296	.485 .485	.507 .507	.187 .176	Hi-Lift	Street/Drag: More mid and high end power, smooth idle. Best cam for modified 74s, 80s and small strokers. Spring spacing required.
<b>212358</b>	78-84									
<b>212430</b>	70-77	BH	24/52 52/24	256 256	302 302	.450 .450	.470 .470	.156 .156	Hi-Lift	Hydraulic version of a "B" cam. Usually a bolt-in but spring spacing required on stock 1980-81 Shovelheads.
<b>212440</b>	78-84									
<b>212536</b>	70-77	7	29/53 59/27	262 266	303 325	.510 .510	.535 .535	.206 .186	Hi-Lift	Upgrade of original #6. Great street cam for 84/88 inch strokers. Maximum torque available from 2200 to 6500 RPM.
<b>212539</b>	78-84									
<b>212610</b>	70-77	C	37/61 61/37	278 278	318 318	.525 .525	.550 .550	.234 .234	Hi-Lift	Best cam made for big street engines. Stokers from 84 to 96 inches will really turn on with this cam. Broad torque band from 2000 to 7000+ RPM.
<b>212620</b>	78-84									

(\*) Timing and duration listed for .053 cam lift  
 (\*\*) TDC Shovel valve lift listed: TDC Pan valve lift will be 5% higher.  
 Note: 1980 and 1981 engines: The height of the original stock H-D valve guides restricts spring travel and valve lift to .430 or less!



Knucklehead Cams								
PCP#	Grind	Timing *	Duration		Valve Lift	Lift** @TDC	Spring	Application
			.053	.020				
<b>212965</b>	N	13/41 44/16	234 240	270 276	.348 .348	.089 .105	Stock	Stock Knuckle replacement cam. This is the cam to use for stock motors and for restoring an older classic engine.
<b>212970</b>	S	27/55 55/27	262 262	308 308	.370 .370	.130 .130	Stock	Bolt-in Knuckle performance cam for stock motors. Smooth idle and strong pull to 6000 RPM. This is the Knuckle equivalent of a Shovelhead "B" cam.

Knuckle cam bearings are ground to .8115 to fit stock bushings.  
 (\*) Timing and duration listed for .053 cam lift



## S&S 514 Shovelhead Cams

- Timing designation is function of zero lash @.053" off base circle
- Lifts at TDC are measured at the valve and are for reference only. Overlap valve lifts must be checked on assembled motor.
- Minimum valve to valve clearance of .040" is recommended
- **All cams require spring spacing!**

PCP#	Grind	Year	O/C		Duration		Lift** @TDC		Lifter	Application
			INT	EXH	INT	EXH	INT	EXH		
335051	514	70-77	23/43	43/23	246	246	.125	.125	Solid	80" to 96" engines with 8:1 CR
335052	514	78-84								To 9:1 CR. Good mid range performance



## Preston BT Motor Shop Cam Chest Kit

- Includes a Sifton cam and internal replacement parts
- Order cam bearings and bushing kit separately

PCP	Years	Application
30025	36-47	OHV Knucklehead
30026	48-53	Panhead
30027	54-69	Pan-Shovel
30028	70-84	Shovelhead



## Preston Performance Cam Kit

Includes cam solid lifters, pushrods, and chrome lifter bases.

PCP	Lift	Model
30157	.412	Shovel 1970-E77
30158	.412	Shovel 1978-84

# Lifter Base



## Solid Lifter Kit

- Includes 4 STD tappets with adjusters and 4 lifter blocks
- Fits 1957-85 XL

30172



## Stock Solid Alloy Tappet Kit

- Includes tappets with adjuster screws, pushrods and tappet blocks. Fits 1957-85.

30047



## Sifton Hydraulic Pushrod/Lifter Set

- Includes 4 max axle lifters with integral pump and 4 adjustable steel pushrods for 1966-84 Shovel.

30165



## Sifton Solid Tappet Assembly

- Includes roller tappets and fully adjustable pushrod set. Fits XL 1957-84.

30053



## Tappet Block Kit 1936-47

- Includes 4 standard size lifters with adjusters and raw finish tappet blocks.

19792

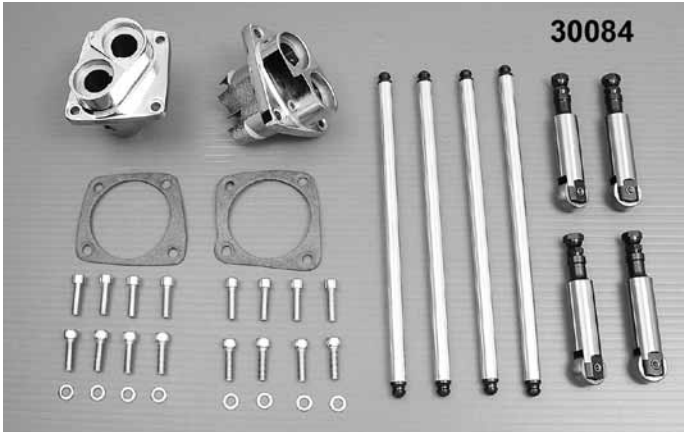


## Sifton Tappet Block Set

- Includes blocks, o-rings and screws

30169

# Lifter Base



30084



## Preston Lifter Kit

- Includes chrome tappet blocks, integral pump lifter set and steel pushrods

PCP	Years	Fit	Blocks
30164	48-65	Panhead	Chrome
30154	66-84	Shovelhead	Chrome



30156

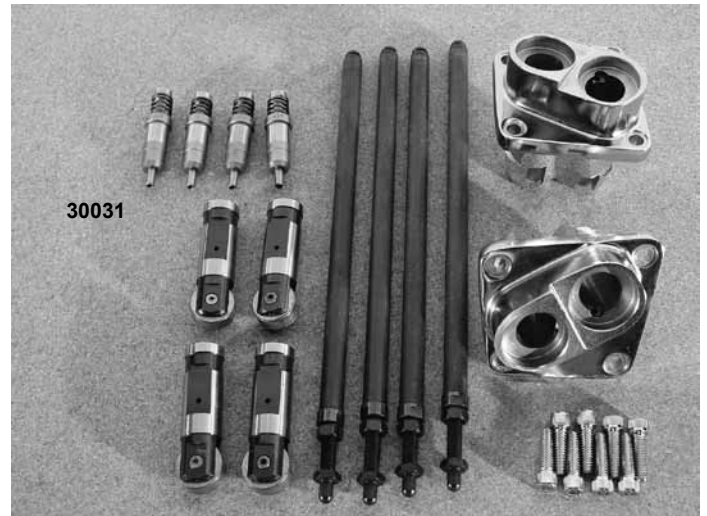
## Stock Solid Tappet Kit

- Includes lifters, adjuster screw, pushrods & tappet blocks

PCP	Years	Fit	Blocks
30155	48-65	Panhead	Chrome
30156	48-65	Panhead	Zinc
30084	66-84	Shovelhead	



30029



30031

## Preston Lifter and Pushrod Assembly

- Includes 4 hydraulic lifter tappets, 4 hydraulic lifter units, 4 pushrods and a lifter base

PCP	Years	Fit	Blocks
30029	48-65	Panhead	Chrome
30030	48-65	Panhead	Zinc
30031	66-84	Shovelhead	Chrome
30032	66-84	Shovelhead	Zinc

# Lifter Base



## S&S Shovelhead Hydraulic Lifter Update Kit

- Upgrade your Shovelhead to modern hydraulic lifters
- Includes: 4 1984-99 style tappets with HL2T kits, polished guide blocks, gaskets, hardware, pushrod cover keepers and a set of Quickie adjustable pushrods.

PCP	Years	Fit	For Use With
335451	66-84	Shovelhead	S&S roller rocker arms with oil thru pushrods
335452	66-84	Shovelhead	Stock rocker arms



## Jims Shovel Super Tappet Block Kit

- Complete block kit for stock or performance Shovel motors
- Includes blocks, Pro-Lite pushrods, gaskets and .761" diameter hydraulic tappets
- Pushrods do not have oiling hole
- Tappets offer total hydraulic lift of 0.100"

PCP	Years	Fit	Blocks
31267	66-84	Shovelhead	Polished



## S&S Tappets and Blocks for Shovelheads

- Polished billet aluminum blocks and hydraulic tappets
- Stock or high performance applications
- Tappets include HL2T travel limiter kit

PCP	Application
335450	Tappet guide block set
335353	Hydraulic tappet with HL2T kit (4 Pk)



## Chrome XLH-XLCH Tappet Block Cover Set

Set fits 1957-85 and features exact contour to fit over existing stock style lifter blocks. Covers are securely held in place by the 4 chrome allen bolt included with your kit. Please note: pushrods must be removed for installation.

45074

## Jim's Billet Power Glide Shovel Tappet Blocks

- Includes aluminum blocks and PowerGlide tappets
- Can be used for up to .700" lift with the right valves, valve springs, cam, oil, etc.
- Eliminates the total oil loss of hydraulic units
- .761" diam. tappet is not compatible with stock .731" tappets or blocks

PCP	Years	Fit	Blocks	OEM
31290	53-65	Panhead	Polished	17920-53A
	66-84	Shovelhead		



## Chrome Lifter Base Screw Kits XL 1957-84

PCP	Style
1714	Acorn
5373	Allen

# Lifter Base



## Preston Lifter Block Set for BT Shovelheads

- 74" & 80" Big Twins 1966-83.
  - Replaces OEM 18600-66B Front and 18610-66C rear
  - Chrome
- 32330**



## Chrome Tappet Block Cover Set

- Chrome stamped steel covers and 12 point screws
  - Can be installed without removing your pushrods
  - Hold in place with a small amount of silicone
- 45041** Fits Shovelheads 1966-84

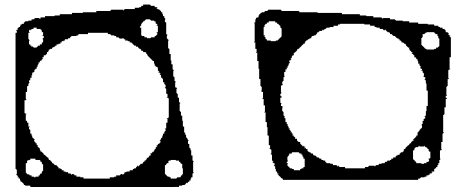
\*NOTE: Will **NOT** fit 1981-E82 Big Twins equipped with tappet blocks with oil drain fittings.



## Big Twin Cast Tappet Block Gaskets

- Sold in packs of 10

PCP	OEM	Years	Type
79270	18633-48C	48-90	.031" Rear tappet
25029	18633-48		.038" Rear tappet, foamet
79273	18634-48B		.031" Front tappet
25028	18634-48		.038" Front tappet, foamet



## Special Tappet Gaskets 74 & 80

Tappet base gaskets without oil return holes for use in engines with solid lifter (5 front, 5 rear).

**25057**



## Stock OEM Style

**2158** Big Twin 1936-1953 Chrome

Chrome	Cad	Years	Head
2158	-	36-53 BT 37-73 45's	Slot
72099	72100	50-53	Phillips
5276	5277	54-75 BT	5/16" Hex

## Chrome Lifter Base Screws

Acorn	Cap	Years	Thread
1706	2884	36-75 OHV	1/4-24
1788	2885	76-on 74"	1/4-20
2632	2886	pre 76	1/4-24

\* Mounts late style lifter base to early 1/4-24 motor case

## Chrome Allen Base Screws

Stock	Polished	Knurled	Years	Thread
5352			36-75 OHV	1/4-24
	8726	5315	76-on 74"	1/4-20
	5316		pre 76	1/4-24

\* Mounts late style lifter base to early 1/4-24 motor case



## Lifter Block Bolt Caps BT 76-99

- Chromed aluminum caps for all
  - Use a dab of clear silicone to install on stock 12-point mounting bolts
- 44001** (8 pack)

## 12 Point Lifter Base Screws

Chrome	Cad	Black	Years	Thread
5299	5300	5301	76-on	1/4-20
	5303	5304	pre 76	1/4-24*

\* Mounts late style lifter base to early 1/4-24 motor case

# Tappets

## Jim's Solid Adjustable BT 1948-84

STD O.D. .731. (86 grams)

**Big Axle Size**

**31609** STD  
**31610** .002  
**31611** .005



## Jim's Solid Adjustable Tappet XL 1957-85

**(18508-52B)**

(STD O.D. .731)

**Big Axle Std Size**

**31602** - STD  
**31603** - .002  
**31604** **31120** .005



## American Made Tappet Bodies from Eastern (Tappet Screws & Nuts Must Be Ordered Separately).

PCP	Size	OEM	Application
1078	STD	18491-36	36-47 Knuckle Intake
1079	.005		
1080	STD	18493-36	36-47 Knuckle Exhaust
1081	.005		
1082	STD	18492-48	48-52 BT
1083	.005		
1084	STD	18522-53A	53-84 BT
1085	.005		
32317	.010	18508-52B	57-85 XL
2072	STD		
2073	.005		
32311	.010		



## Sifton Solid Tappet Assembly

Features centrifugal surface fine grinding and precision fit rollers and pins. Solid units include adjuster screws and locknuts.

**30136** 1948-52



## Tappet Roller Repair Kit

Contains new roller assembly and roller pin. Fits all V-Twins, 1929-85. Replaces OEM 18534-29A. Set of 4.

- 15622** Roller kit for 4 tappets
- 15614** Roller kit for one tappet (18534-29A)
- 10184** 10 Pins only
- 15635** Roller kit for Big Axle tappets



## S&S 1948-52 Style Adjusting Unit Assembly

Converts stock 1953-84 style hydraulic lifter to 1948-52 style adjustable solid lifter. Includes one adjusting unit sleeve, one adjusting unit screw and one locknut.

**335334**

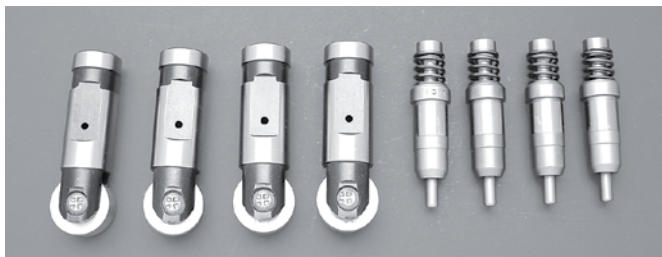
## S&S Solid Lifter Conversion Kit 1953-84

- Panhead and Shovelheads 1953-84.
  - Install in place of stock hydraulic units in 1953-84 lifters.
  - Use with stock adjustable pushrods
  - Includes four hardened steel adapters.
- 335348**

**1470** Adj. tappet screw (18554-57) (4pk)



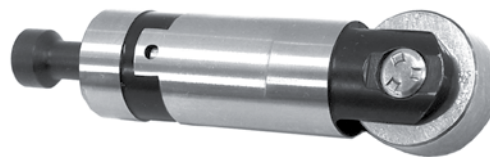
# Tappets



## Sifton Hydraulic Tappet Assembly Kit

Includes tappets with large single axle roller design and hydraulic units. Fits BT 1953-84.

**30166**



## Power Glide Performance Hydraulic Tappets for Pan and Shovel Performance Cams

- Perfect for 18600-53/front & 18610-53/rear or any tappet block using oil passages to tappets
- Will accommodate a .550" lift without modification if used with Jims 18602/3-80A tappet blocks
- For stock blocks check for roller to block clearances & use HD#17904-66 or equivalent push rods.

**Big Axle Size (STD O.D. .731)**

**31616** STD

**31617** .002

**31618** .005



## Sifton Hydraulic Tappet Assemblies

- Available as 4 piece replica tappet body set or 8 piece tappet and hydraulic lifter kit

**PCP Item**

**30088** Tappet body set (18522-53A)

**30089** Hydraulic tappet body and lifter set



## Jim's BT Hydraulic Tappet 1953-84 (18522-53A)

- 89 grams with STD O.D. .731

**Big Axle Size**

**31612** STD

**31613** .002

**31614** .005



## Hyd. Pushrod Adjusting Unit

- Fits all BT 1953-85 with hydraulic lifter.
- Replaces OEM 17920-53
- Sold each

**34020**

## Sifton BT Hydraulic Tappet Assembly Set

- 4 Piece set fits Panhead and Shovelhead 1953-84
- Features installed replica roller and pin

**PCP Size**

**30086** .005 (.7367 O.D.)

**30087** .010



## Sifton Maxi Axle Tappet Assembly

Fits BT 1953-84 and features a built-in integral pump unit.

**PCP Size**

**30137** STD

**30138** .002

**30093** .005

**30139** .010



## Sifton Hydraulic Lifter Set

- 4 Piece set replaces 17920-53 on BT 1953-85 models

**30090**

# S&S Cylinders and Pistons

## S&S Cylinders and Pistons for 1936-47 OHV BT

- For 1936-47 74" Knuckle engines
- High strength, engineering-grade grey cast iron
- Excellent wear resistance
- Durable high temp gloss black powder coat finish
- For 3-7/16" bore sizes
- Cylinder and piston kits include, 2 cylinders, 74LC series forged piston kit with rings, wristpins, and clips; head bolts, base nuts, and head & base gaskets
- Cylinder sets include cylinders and head & base gaskets
- Cylinders replace 16483-41 and 16492-41



Cylinder & Piston Kit	Cylinder Set	Displacement	Stroke	Bore	Cylinder Length	CR	Piston Series
1064519	1064512	74"	3-31/32"	3-7/16"	5.530"	8:1	74LC Forged

Recommended Piston Fit: Close: .0035" to .004", Loose: .0045" to .0055"  
 S&S 1940-47 OHV cylinder heads are machined for 7/1620 head bolts and are not compatible with stock 7/16-16 head bolts  
 Cylinder kits with pistons are are honed to fit the included pistons

## S&S Cylinder Sets for 1966-84 BT

- Durable gloss black powder coat finish
- For 3-7/16", 3-1/2" & 3-5/8" bore sizes
- Cylinder sets include cylinders and head & base gaskets
- Cylinder sets are bored slightly under nominal size and **are not honed**

Cylinder Set	Displacement
919011	74", 84" 86", 88" Stock Bore Stokers
919021	80", 84"
919000	88"
919100	93"
919030	93" HC
919400	96"
919200	98" SD*

\*Small diameter flywheels: Some early S&S 93" and 96" Sidewinder kits where sold with 5.530" length cylinders



# S&S Cylinders and Pistons

## S&S Cylinders and Pistons For 1966-84 BT

- Fits 1966-84 Shovelhead engines, S&S Vintage SH-Series and P-series engines
- Cylinders for P- series are machined with stock Shovel head bolt pattern and do not have an internal oil feed passage for top end oiling. Not compatible with stock pan cases or heads
- High strength, engineering-grade grey cast iron
- Excellent wear resistance
- Durable black powder coat finish
- P-series are silver powder coated
- For 3-7/16", 3-5/8" and 3-1/2" bore sizes
- Cylinder and piston kits include, 2 cylinders, piston kit with rings, wristpins, and clips; head bolts, base nuts, and head & base gaskets
- Cylinder sets include cylinders and head & base gaskets

## S&S Cylinder and Piston Kits

With Stock Replacement Cylinders					
Cylinder & Piston Kit	Displacement	Stroke	Bore	Cylinder Length	CR
919013	74" LC	3-31/32"	3-7/16"	5.330"	8:1
919012	74" HC	3-31/32"	3-7/16"	5.330"	9:1
919024	80" LC	4-1/4"	3-1/2"	5.330"	8:1
919023	80" HC	4-1/4"	3-1/2"	5.330"	9:1

Recommended Piston Fit: Close: .0035" to .004", Loose: .0045" to .0055"



With Stock Bore Stroker Cylinders					
Cylinder & Piston Kit	Displacement	Stroke	Bore	Cylinder Length	CR
919017	84"	4-1/2"	3-7/16"	5.330"	8:1
919027	84"	4-1/2"	3-1/2"	5.330"	9:1
919017	86"	4-5/8"	3-7/16"	5.330"	8:1
919017	88"	4-5/8"	3-7/16"	5.330"	9:1

Recommended Piston Fit: Close: .0035" to .004", Loose: .0045" to .0055"



With 3-5/8" Bore Stroker Cylinders					
Cylinder & Piston Kit	Displacement	Stroke	Bore	Cylinder Length	CR
919001	88"	4-1/4"	3-5/8"	5.330"	8:1
919201	98"*	4-3/4"	3-5/8"	5.530"	8.9:1

Recommended Piston Fit: Close: .0035" to .004", Loose: .0045" to .0055"  
\*Small diameter flywheels



# S&S Piston Kits

## S&S Forged Piston Kits for 1936-84 OHV BT

- 74" pistons fit 1936-78 74"OHV engines
- 80" pistons fit 1979-84 80"BT engines and may be used in mild stroker engines with 4-1/4"stroke flywheels
- Forged pistons offer superior strength
- Modern alloys and skirted pistons for quiet operation
- Piston kits include pistons, rings, wristpins and clips
- Choice of 8:1 or 9:1 compression

Dome Volumes:

74LC = 46cc      74HC = 57cc  
80LC = 41cc      80HC = 53cc

S&S Stock Bore Piston Specifications				
Displacement	Stroke	Bore	CR	Piston Deck Height
74"	3-31/32"	3-7/16"	8:1 and 9:1	1.436"
80"	4-1/4"	3-1/2"	8:1 and 9:1	1.270"
Recommended Piston Fit: Close: .0035" to .004", Loose: .0045" to .0055"				

## S&S Forged Piston Kits



### S&S Forged 74" Pistons

Size	8:1 CR Piston Kit	Replacement 74" Ring Set
STD (3-7/16")	1065495	942200
+.010"	1065496	942201
+.020"	1065497	942202
+.030"	1065498	942203
+.040"	1065773	942204

### S&S Forged 80" Pistons

Size	8:1 CR Piston Kit	9:1 CR Piston Kit	Replacement 74" Ring Set
STD (3-1/2")	1065511	1065519	942206
+.010"	1065512	1065520	942207
+.020"	1065513	1065521	942208
+.030"		1065522	942209



## S&S Replacement Wristpin Keeper C-Clip

• 4 pack  
**949254**

### Attention:

Since many older motorcycles have been modified, be sure to confirm that your engine is still stock before ordering replacement pistons. Using 80" pistons with 74" (3-31/32" stroke) flywheels will result in very low compression and poor performance. Using 74" pistons with 80" (4-1/4" stroke) flywheels will result in contact between piston and cylinder head, and potential engine damage.

# S&S Piston Kits



## S&S Forged Stock Bore Stroker Piston Kits

- 84", 86" and 88" stroker engines for 1936-84 OHV engines
- Forged pistons offer superior strength
- Modern alloys and skirted pistons for quiet operation
- Piston kits include pistons, rings, wristpins and clips
- Dome Volume: 50cc

## S&S Forged Piston Kits

### S&S Forged Stock Bore Stroker Piston Kits

Size	Piston Kit	Replacement Ring Set
STD (3-7/16")	1065527	942200
+ .010"	1065528	942201
+ .020"	1065529	942202
+ .030"	1065530	942203
+ .040"	1065777	942204
+ .050"	1065778	942205
+ .060"	1065779	942206
+ .070"	1065780	942207
+ .080"	1065781	942208
+ .090"	1065782	942209

### S&S Forged Stock Bore Stroker Piston Specifications

Displacement	Bore	Stroke	CR	Piston Deck Height
84"	3-7/16"	4-1/2"	8.1:1	1.100
86"	3-7/16"	4-5/8"	9.4:1	
88"	3-7/16"	4-3/4"	10.8:1	

Recommended Piston Fit: Close: .003" to .0035", Loose: .004" to .005"



## S&S Replacement Wristpin Keeper C-Clip

- 4 pack
- 949254

### Attention:

When ordering pistons for a Shovel engine, pistons are sized by 3-7/16" standard bore for a 74" engine. If using 80" cylinders standard bore is 3-1/2" or 3-7/16"+.060".

# S&S Piston Kits

## S&S Forged 3-5/8" Bore Kits

- 88", 93", 96", 98" and 103" engines for 1936-84 OHV BT
- Forged pistons offer superior strength
- Modern alloys and skirted pistons for quiet operation
- Piston kits include pistons, rings, wristpins and clips
- Dome Volume: 30cc



## S&S Forged Piston Kits BT 1936-84

S&S Forged 3-5/8" Bore Piston Kits		
Size	Piston Kit	Replacement Ring Set
STD (3-5/8")	<b>1065535</b>	<b>941220</b>
+.010"	<b>1065536</b>	<b>941221</b>
+.020"	<b>1065537</b>	<b>941222</b>
+.030"	<b>1065538</b>	<b>941223</b>
+.060"	<b>1065789</b>	<b>941226</b>

S&S Forged 3-5/8" Bore Stroker Piston Specifications						
Displacement	Stroke	Flywheel Diameter	CR	Cylinder Length		Wristpin Deck Height
				SH & P-Series Engines	KN-Series Engines	
88"	4-1/4"	8 1/2"	7.5:1	5.330"		1.260"
93"	4-1/2"	8 1/2"	8.5:1	5.405"	5.625"	
93" HC	4-1/2"	8 1/2"	9.1:1	5.363"		
96"	4-5/8"	8 1/2"	9.1:1	5.440"		
98"	4-3/4"	8 1/2"	8.9:1	5.530"		
103"	5"	8-1/4"	9.7:1	5.630"		

Recommended Piston Fit: Close: .003" to .0035", Loose: .004" to .005"



## Hastings Ring Sets for 3-5/8" Shovelhead

- Includes cast compression rings and 3 piece oil rings
- Can be used on Preston and many aftermarket pistons
- Sold in sets for 2 pistons

5/64" Top Ring Sets (2M5722)		1/16" Top Ring Sets (2M5721)	
PCP	Bore	PCP	Bore
<b>4133</b>	STD	<b>35266</b>	STD (3-5/8")
	+.010	<b>35267</b>	+.010
<b>4137</b>	+.020	<b>35268</b>	+.020
	+.030	<b>35269</b>	+.030
<b>4141</b>	+.040	<b>35270</b>	+.040
Top/Second .078, Oil .187		Top/Second .065, Oil .187	

### Attention:

Compression ratios will change when replacing existing pistons in S&S engines with this series of forged pistons. If higher compression is desired, S&S suggests shortening of cylinders, or decking heads to achieve the desired compression ratio. A change of .060" will produce approximately 1 point of change in the compression ratio.



## S&S Replacement Wristpin Keeper C-Clip

- 4 pack
- 949254**

# Cylinders



## Cylinder and Piston Kits

- Honed and pre-fitted with stock compression cast pistons and Hastings rings
- Ready to run and will require break-in as suggested in the appropriate shop manual.
- Sold in pairs for stock stroke only
- Order gasket set separately

PCP	Application	Compression
53057	1936-47 61" Knuckle	7.5:1
53058	1941-47 74" Knuckle	8.5:1
53059	1948-65 Panhead	8.5:1
53060	1966-78 74" Shovelhead	8.5:1
53061	1979-85 80" Shovelhead	8:1
53047	1957-71 XL 900cc	9:1
53065	L1973-85 XL 1000cc	9:1



## Cast Alloy Iron Replacement Cylinders

PCP	OEM	Years	Model	Type
4835	16483-36	36-47	61" Knuckle	Front
4837	16490-36	36-47	61" Knuckle	Rear
4833	16483-41	41-47	74" Knuckle	Front
4841	16491-41	41-47	74" Knuckle	Rear
177	16485-55	48-65	74" Panhead	Front
176	16492-55	48-65	74" Panhead	Rear
179	16484-66	66-78	74" Shovelhead	Front
178	16492-66	66-78	74" Shovelhead	Rear
34810	16498-80A	79-85	80" Shovelhead	Front
34811	16499-80A	79-85	80" Shovelhead	Rear
3032	16464-58	57-71	Sportster 900	Front
3033	16465-58	57-71	Sportster 900	Rear
3039	16464-72	1972	Sportster 1000	Front
3040	16465-72	1972	Sportster 1000	Rear
3035	16464-73A	73-85	Sportster 1000	Front
3038	16465-73A	73-85	Sportster 1000	Rear



## Pan and Shovel Head Bolt Kits 1948-on

- Includes 10 bolts and 10 washers
- 7/16" 12 point bolts suitable for big bore cylinders

Cad	Chrome	Black	Description
1820	5214	-	Grade 8 stock hex bolts
	5305	3582	Heat treated 7/16" 12 point bolts



## Chrome Shovel Rocker Box Oil Line Set

- Fit up to plus .200 longer cylinders for Big Twin 1966-84
- 1982-85 style

1354

## Head Bolt Washer Kits

Cad	Chrome	Fit	U/M
5200	8488	All 48-on H-D with 7/16" bolts	10 Pk



## S&S 1948-84 Pan and Shovel Head Bolts

Stainless steel 12 point bolt measures 3 7/16" x 2-3/8" and includes a washer.

933024 Bolt and washer (20 pack)

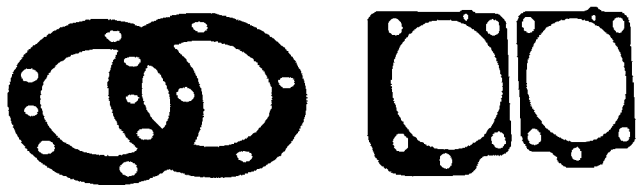
# Cylinders



## Big Bore Cylinder Small Parts Kit

For installing 3-5/8" barrels on Shovelhead cases, includes 2 head gaskets one each front and rear cylinder base gasket, 8 cylinder base nuts, and 10 head bolts with washers.

**1957** Complete Kit



## Big Bore Gasket Kit

- Fits all 3-5/8" cylinders for Shovel 1966-84
- Includes 2 head & 2 base gaskets

**79213** James blue teflon gasket kit

**25027** Cylinder base gaskets front & rear (set)



949254



949258

## S&S Teflon Button Style Keepers (4 pack)

Keepers are available in different sizes (thickness) to control wrist end play that varies with bore size. Button style keepers must be fully supported by wrist pin hole.

### 3 5/8" Bore

**PCP** Range (Series 1800, 1830)

**949258** STD to +.030

**949259** +.040 to +.070

### 3 7/16" and 3 1/2" Bore (Series 2800-2900)

**PCP** Range

**949251** STD to +.040

**949252** +.050 to +.090

### 3 3/16" Bore (Series 3700)

**PCP** Range

**949351** STD to +.070 (pair)

### "C" Style Piston Pin Clips (most other series)

**949254** 4 Pack



## Replica Knuckle Cylinder Sets

Cylinders feature cast iron construction, original markings with black painted surfaces and are pre-fitted with cast pistons and Hastings rings.

PCP	Application	Compression
<b>53062</b>	1936-47 61"	7.5:1
<b>53063</b>	1941-47 74"	8.5:1



## S&S Shovel Head & Base Gaskets

• Sold in pairs

PCP	Size	Type	Material	
<b>931070</b>	.018	Base	Fibre reinforced graphite	Std
<b>931069</b>	.020	Base	Fibre reinforced graphite	3-5/8"
<b>931061</b>	.032	Head	Copper	Std
<b>931062</b>	.032	Head	Copper	3-5/8"



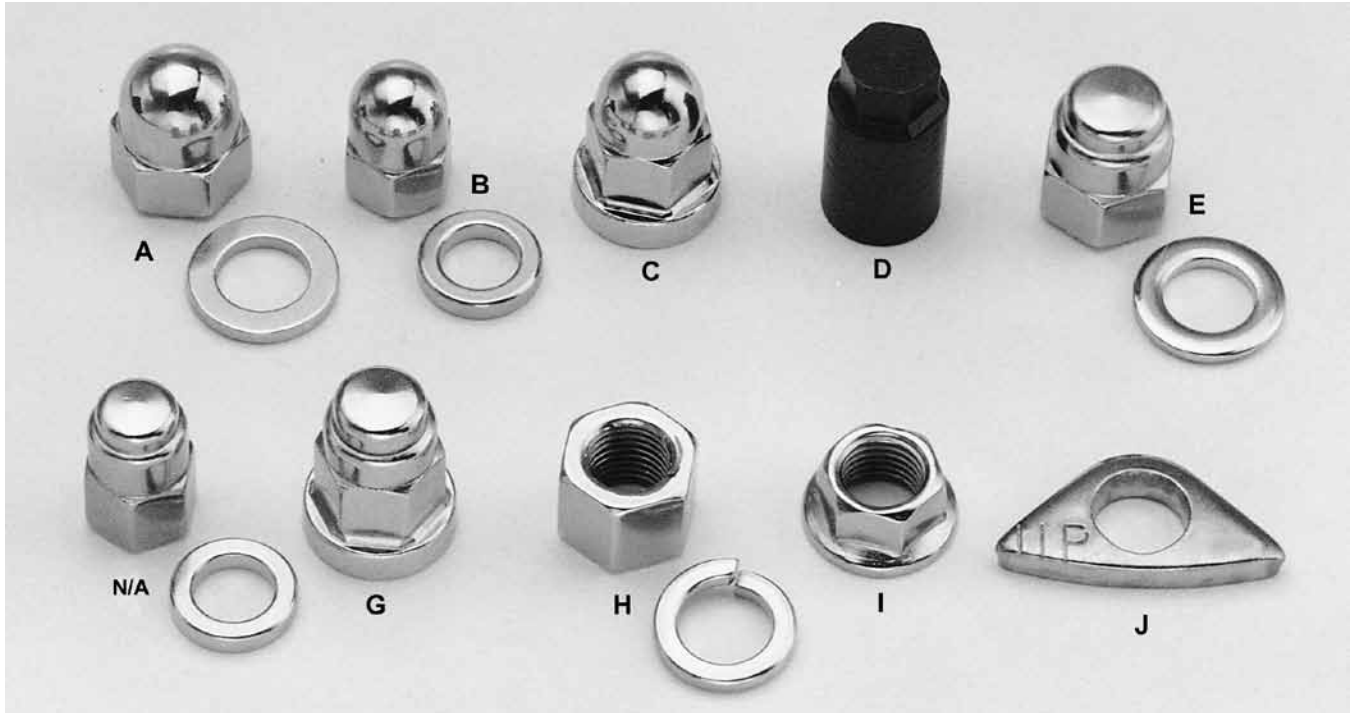
## S&S Finished Cylinder Base Plate Set

- Used in S&S 86" Shovel stroker kits with cast pistons
- Stock bore x 1/32" 1948-84 BT models.

**932229**



# Cylinder Base Nuts



## Cylinder Base Nuts

Item	Chrome	Cad	Black	Parker.	Fitment	Details	OEM
A	1683	-	-	-	36-77 BT	Acorn	
B	1684	-	-	-	57-85 XL	High crown acorn	
C	1812	-	-	-	78-84 BT	Milled hex acorn	
D	3578	-	5275	-	Pre-Evo BT	7/16" Hex for Big Bore	
	3580	-	5123	-	57-84 XLR	7/16" Hex	
E	2878	-	-	-	30-77 BT	Cap	
G	2879	-	-	-	78-84 BT	Milled hex cap	
H	2153	5167	-	9623	36-78 BT	Stock hex nut	
	2154	5168	-	9624	XL	Stock hex nut and lockwashers	
	9715	5201	-	9716	36-78 BT	7/16" Lock washers only (8 Pk)	7055
I	9100	9101	9102	-	78-84 80" Shovelhead	9/16" Flanged hex nuts	16836-78
J	8860	-	3898	-	78-84 Shovelhead	Stud spacer	16836-78



## Cylinder Base Studs

- Precision formed with rolled threads
- Stock replacement

PCP	OEM	Years	U/M
5472	16831-30	30-77 FL/FX	8 Pk
5473	16837-78	78-84 FL/FX	8 Pk
5474	16830-54	54-71 XL, XLH	8 Pk
	16830-72	72-85 XL, XLH	

# Wiseco Piston Kits

Wiseco's extensive R&D programs have revolutionized the power and performance of Wiseco's HD piston kits. All Wiseco pistons are forged for superior strength and dependability. Kits include forged pistons, rings, circlips and wrist pins. Will not fit XR style heads. Top ring .062, 2nd ring .062, oil ring .158.



## Wiseco 74" 1200 FL-FLH Pan and Shovel 48-77

Wiseco K kits include forged pistons, rings, circlips, and chrome piston pins.

9:1 CR Domed					
PCP	Displ.	Bore	Stroke	Dome Specs	Wiseco
35905	1200cc	3.437"/STD	3.968"	Volume: +52cc Int. Depth: -.087" Diam 2.045" Ext. Depth: -.089" Diam.: 1.800"	K1605
35906	1213cc	3.447"/.010			K1606
35907	1220cc	3.457"/.020			K1607
35908	1227cc	3.467"/.030			K1608
35909	1234cc	3.477"/.040			K1609
1966-77 Shovelhead Only					
35910	1241cc	3.487"/.050			K1610
35911	1249cc	3.497"/.060			K1611

## Wiseco Replacement Piston Rings

• Sold per cylinder

PCP	Bore
35945	STD
35946	.010
35947	.020
35949	.040
35950	.050

## Wiseco 80" 1340 Shovelhead Piston Kits

Shovelhead 1978-84 80 cubic inch models. Wiseco K kits include forged pistons, rings, circlips, and chrome piston pins.

7:1 CR Domed					
PCP	Displ.	Bore	Stroke	Dome Specs	Wiseco
35913	1340cc	3.497"/STD	4.250"	Volume: +29.7cc Int. Depth: -.130" Diam 2.000" Ext. Depth: -.090" Diam.: 1.870"	K1613
35914	1345cc	3.507"/.010			K1614
35915	1353cc	3.517"/.020			K1615
35916	1361cc	3.527"/.030			K1616
35917	1367cc	3.537"/.040			K1617
8.5:1 CR Domed					
PCP	Displ.	Bore	Stroke	Dome Specs	Wiseco
35936	1340cc	3.497"/STD	4.250"	Volume: +44.5cc Int. Depth: -.130" Diam 2.000" Ext. Depth: -.090" Diam.: 1.870"	K1767
35938	1353cc	3.517"/.020			K1769
35939	1361cc	3.527"/.030			K1770
9.5:1 CR Domed					
PCP	Displ.	Bore	Stroke	Dome Specs	Wiseco
35918	1340cc	3.497"/STD	4.250"	Volume: +56.0cc Int. Depth: -.115" Diam 2.000" Ext. Depth: -.085" Diam.: 1.870"	K1623
35919	1345cc	3.507"/.010			K1624
35920	1353cc	3.517"/.020			K1625
35921	1361cc	3.527"/.030			K1626
35922	1367cc	3.537"/.040			K1627

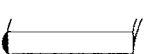
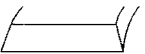

Valve pocket depths measured measured from deck height

## Wiseco Replacement Piston Rings

• Sold per cylinder.

PCP	Bore
35954	.030
35955	.040

**NOTE:** Hastings X rings and Wiseco XC rings are NOT interchangeable. Wiseco rings sold per cylinder.

<b>Hastings X-Rings</b> .062" Top Ring Moly Filled Barrel Faced Cast Iron Compression Ring		.062" Second Ring Taper Faced Cast Iron Second Ring		.158" Oil Ring 3 Piece Low Tension Oil Ring	
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# Pistons



Wiseco's extensive R&D programs have revolutionized the power and performance of Wiseco's HD piston kits. All Wiseco pistons are forged for superior strength and dependability. Kits include forged pistons, rings, circlips and wrist pins. Will not fit XR style heads. Top ring .062, 2nd ring .062, oil ring .158.

## Piston Kits

Each piston kit includes 2 pistons, 2 pins, 4 clips, and a cast ring set.

EL Models = 3-5/16" 61" O.H.V. 1936-52

**Size EL Models**

STD	<b>35510</b>
.010	<b>35511</b>
.020	<b>35512</b>
.030	<b>35513</b>
.040	<b>35514</b>
.050	<b>35515</b>
.060	<b>35516</b>
.070	<b>35517</b>
.080	<b>35518</b>



## 1000 Iron Sportster 1972-85

10:1 Compression with Hastings X Ring package.  
Top ring .062, 2nd ring .062, oil ring .158.

PCP	Wiseco	Bore	Rings (Per Cylinder)
<b>35900</b>	K1600	STD	<b>35940</b>
<b>35901</b>	K1601	.010	<b>35941</b>
<b>35902</b>	K1602	.020	<b>35942</b>
<b>35903</b>	K1603	.030	<b>35943</b>
<b>35904</b>	K1604	.040	<b>35944</b>



## Wiseco Wrist Pins, (Sold Each)

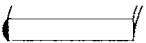
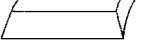

**35934** 1000 Sportster 1972-on 1200 "74" FL-FLH 1948-on

## Wiseco Wrist Pin Circlips (sold in pairs)

**35933** All Wiseco pistons

Compression Ratio					
Model	Engine	Bore	Stock CR	Low CR	High CR
Sportster	900cc	3"	9:1	N/A	N/A
Sportster	1000cc	3-3/16"	9:1	8.4:1	N/A

**NOTE:** Hastings X rings and Wiseco XC rings are NOT interchangeable. Wiseco rings sold per cylinder.

<b>Hastings X-Rings</b> <b>.062" Top Ring</b> Moly Filled Barrel Faced Cast Iron Compression Ring		<b>.062" Second Ring</b> Taper Faced Cast Iron Second Ring		<b>.158" Oil Ring</b> 3 Piece Low Tension Oil Ring	
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# Pistons



## Shovelhead 80" 3-1/2" 1979-E83 (3.498 OD)

Standard and low compression pistons with pins & clips are sold each. Hastings ring sets sold separately and packed for 2 pistons and have .062x.062x.185 oil scraper.

Size	Piston		Rings	
	Low Comp	Std Comp	1/16" Cast	1/16" Moly
STD	2716	2713	35106	35235
.010	2404	694	35107	35236
.020	2405	695	35108	35237
.030	2406	696	35109	35238
.040	2407	697	35110	35239



## Panhead & Shovelhead 74 " 1948-78 3-7/16" (3.4375 OD)

Standard and low compression pistons with pins & clips are sold each. Hastings cast ring sets sold separately and packed for 2 pistons and have .062x.062x.185 oil scraper.

Size	Piston		Hastings Rings	
	Low	STD	Cast	Moly
STD	2396	671	35056	35210
.010	2397	672	35057	35211
.020	2398	673	35058	35212
.030	2399	674	35059	35213
.040	2400	675	35060	35214
.050	2401	676	35061	35215
.060	2402	677	35062	35216
.070	2403	678	35063	35217



## Shovelhead 80" 3-1/2" 1979-E83 (3.498 OD)

Piston kits include 2 STD compression pistons with pins, clips and cast ring set.. Hastings ring sets also sold separately and packed for 2 pistons with 1/16" (.062) compression rings.

Size	Piston Kit	Hastings Rings	
		1/16" Cast	1/16" Moly
STD	35633	35106	35235
.010	35634	35107	35236
.020	35635	35108	35237
.030	35636	35109	35238
.040	35637	35110	35239



## Panhead & Shovelhead 74" 3-7/16" 1948-78 (3.4375 OD)

Piston kits include 2 STD compression pistons with pins, clips and cast ring set.. Hastings ring sets also sold separately and packed for 2 pistons with 1/16" (.062) compression rings.

Size	Piston Kit	Hastings Rings	
		Cast	Moly
STD	35610	35056	35210
.010	35611	35057	35211
.020	35612	35058	35212
.030	35613	35059	35213
.040	35614	35060	35214
.050	35615	35061	35215
.060	35616	35062	35216
.070	35617	35063	35217



## BT Piston Pin Locks

PCP	OEM	Type	Year	U/M
11048	22581-32	Old "L"	1941-72	Pair
11049	22582-52	Spiral	1973-E77	10 Pk
11050	22588-78	Snap ring	L77-E83	10 Pk

## Compression Ratio

Model	Engine	Bore	Stock CR	Low CR	High CR
Harley 74"	1200cc	3-7/16"	8.5:1	7.5:1	10:1
Harley 80"	1340cc	3.298	8:1	7:1	N/A

# Pistons



## Sportster 900 CC 1957-71 (3.000 OD)

Piston kits include 2 STD compression pistons with pins, clips and cast ring set. Hastings cast rings are sold in sets for 2 pistons with 1/16" (.062) compression rings.

Size	Piston Kit	Hastings Rings Cast
STD	35540	35040
.010	35541	35041
.020	35542	35042
.030	35543	35043
.040	35544	35044
.050	35545	35045
.060	35546	35046
.070	35547	35047



## Sportster 900 CC 1957-71 (3.000 OD)

Standard compression pistons with pin & clips are sold each. Hastings cast ring sets sold separately and packed for 2 pistons and have .062x.062x.185 oil scraper..

Size	Piston Each	Hastings Rings Cast
STD	35840	35040
.010	2711	35041
.020	2712	35042
.030	658	35043
.040	659	35044
.050	660	35045
.060	661	35046
.070	662	35047



## Sportster 1000 CC 1972-E85 (3.1875 OD)

Piston kits include 2 STD compression pistons with pins, clips and cast ring set. Hastings ring sets are also sold separately and packed for 2 pistons with 1/16" (.062) compression rings. Kits include cast rings.

Size	Piston Kit	Hastings Rings Cast	Moly
STD	35550	35048	35200
.010	35551	35049	35201
.020	35552	35050	35202
.030	35553	35051	35203
.040	35554	35052	35204
.050	35555	35053	35205
.060	35556	35054	35206
.070	35557	35055	



## Sportster 1000 CC 1972-E85 (3.1875 OD)

Standard compression 9:1 pistons with pin & clips are sold each. Hastings ring sets sold separately and packed for 2 pistons and have .062x.062x.185 oil scraper.

Size	Piston Each	Hastings Rings Cast	Moly
STD	663	35048	35200
.010	664	35049	35201
.020	665	35050	35202
.030	666	35051	35203
.040	667	35052	35204
.050	668	35053	35205
.060	669	35054	35206
.070	670	35055	



## XL Piston Pin Locks

PCP	OEM	Type	Year	U/M
11049	22582-52	Spiral	XL 54-E78	10 Pk
11050	22588-78	Snap ring	XL 1978-85	10 Pk



## Piston Pins

PCP	OEM	Fitment
32351	22719-52	XL 1954-84 (each)

# Pushrods

30043



## V-Thunder Pushrod Kits

- .049 wall 4130 chrome moly steel rods
- Made to exacting tolerances for reliability
- Rods fit stock or Velva Touch lifter units

PCP	Years	Model
30043	48-65	Panhead
30044	66-84	Shovelhead
30040	66-84	Stroker Shovelhead



## Preston Shovel Pushrod Kit

- Pushrods to fit 1966-84 Shovelheads
  - Tapered split lock nut locks the adjusting bolt into the lifter
  - 5/16-32 extra fine thread for easy close adjustments
  - Pushrods are long enough for Stroker cylinders
  - Hardened wear surfaces for maximum wear and durability
- 2924



## Preston BT Shovel Stock Pushrod

Replaces 17904-66 including screw and locknut for all Shovel motors with Hydraulic lifters. 1966-84. Sold each.

PCP	Description
30500	Steel construction (17904-66)

4133



## Hastings Ring Sets for 3-5/8" Shovelhead

- Includes cast compression rings and 3 piece oil rings
- Can be used on Preston and many aftermarket pistons
- Sold in sets for 2 pistons

5/64" Top Ring Sets (2M5722)		1/16" Top Ring Sets (2M5721)	
PCP	Bore	PCP	Bore
4133	STD	35266	STD (3-5/8")
	+ .010	35267	+ .010
4137	+ .020	35268	+ .020
	+ .030	35269	+ .030
4141	+ .040	35270	+ .040
Top/Second .078, Oil .187		Top/Second .065, Oil .187	



## Stroker Shovel Pushrod Set

This set features alloy rods with an .O.D of .440 (no rubbing) and 32 T.P.I. adjusters for precise settings. Designed for +.200 longer cylinders and includes solid converters and chrome longer upper push rod clips.

1709

# Pushrods

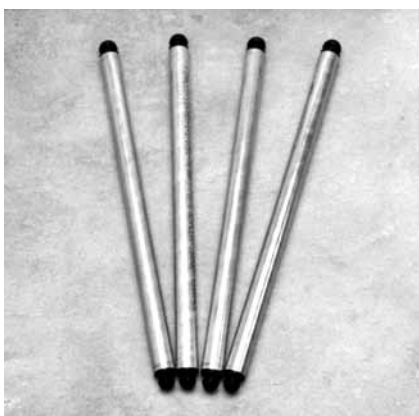


## Preston Shovelhead Solid Lifter Kit

Made from aircraft quality 4130 seamless chrome moly tubing. Extremely rigid, resists flexing even when used with radical cams and high spring rates. Lighter than OEM pushrods. Lengths as long as possible for added rigidity of adjuster. Set includes 4 pushrods and 4 adjustable solid lifter adapters.

Smaller diameter than most moly pushrod sets. Won't rub on stock pushrod tubes. (NOT FOR STROKER)

**2921** Kit



## Aluminum Alloy Pushrod Kits

- Lightweight aircraft grade aluminum pushrods
- Heat treated steel ends for maximum durability

PCP	Years	Model
1763	36-47	61" Knucklehead
1769	36-47	74" Knucklehead
1770	48-52	61"
1701	48-52	74"
1764	48-52	Panhead with Shovelhead
1702	57-85	Sportster



## Pushrod and Hydraulic Lifter Conversion Kit

- Corrects problems associated with hydraulic lifters
- Aluminum alloy substantially reduces valve train weight

PCP	Years	Model
1707	48-65	74"
1708	66-83	74"



## Andrews BT Shovel Pushrods and Adjusters

- 4 pushrods and adjusters

PCP	Model	Material	Remarks
240030	Shovelhead	Chrome moly 4130 steel	Maximum strength
240055	Shovelhead	Aluminum	Quiet operation



## Preston Pushrods-Use With Hydraulic Lifters

- Replace stock rods and retain the hydraulic lifters
- .500 O.D. Aluminum pushrods

PCP	Years	Model
1766	53-65	Panhead
1767	66-84	Shovelhead

# Pushrods

## Pushrod Kits

S&S pushrods are engineered to help you obtain maximum horsepower through positive valve action and can be used in any stock replacement or high performance engine application. All chrome moly steel pushrods are made of 7/16" OD chrome moly steel tubing with pressed-in heat treated steel ends. This combination provides maximum strength and durability regardless of the performance application.

## Important Note

It is recommended that an appropriate cam change be made when using solid lifter pushrods in late 1977-on engines. It is S&S' experience that excessive valve train noises are prevalent when a combination of solid lifter pushrods and the stock hydraulic cam is used.



### S&S Adjustable Pushrod Solid Lifter Conversion

Kit Includes 4 adjustable type, chrome moly steel pushrods and 4 special solid lifter conversion hardened steel adapters that are installed in the lifter in place of stock hydraulic unit.

- 935067** 74" & 80" Shovel 1966-84
- 935014** As above, +1/16"
- 935016** As above, +5/16"



S&S BT 1953-65, converts hydraulic to 1948-52 style adjustable tappets

- 935058** STD
- 935082** +1/16"

S&S BT 1953-65 stock replacement aluminum pushrods. Your stock adjustable screws must be used.

**935091**



935068

S&S BT 1966-84 Shovel solid tappet conversion kit. Use with 1953-84 lifters.

**935068**

S&S BT 1948-52 74" Pan solid style kit.

**935059**



S&S BT 1966-84 Solid tappet pushrod kit. Requires 1948-52 style adjustable tappet.

**935069**



S&S Sportster 1957-85 stock replacement pushrods

**935037**



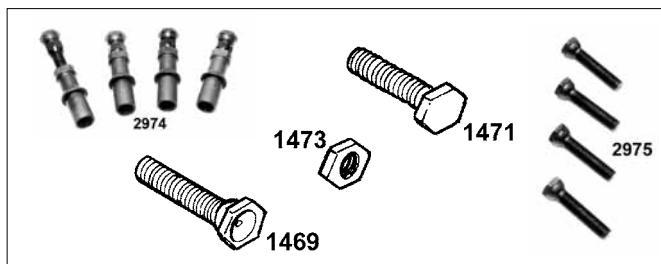
S&S BT 1966-84 stock steel replacement with 1953-84 hydraulic lifters. Stock screws must be used

**935070**





# Pushrods



## Tappet Adj. Screws & Nuts

PCP	Fits
1469	Screw BT (18555-36) (4 pk)
1470	Screw XL (18554-57) (4 pk)
1471	Screw. Flathead (18556-40) (4)
2974	4 Lifters with adjusters
2975	Adjusting screws (4 pack)
1473	Flat Nut. 5/16-24 aftermarket tappets(4 pk)



## Pushrod Tappet Adjuster Locknuts

Split locknuts with 9/32-32 thread fit 1915-1984 Singles, Flat-heads, O.H.V. BT, 45's, XL and K models (18570-38).

12529	Stock lock nuts 9/32-32 thread (4 pack)
12623	Replacement locknuts 5/16-24 thread (10 pack)



## Preston Hydraulic Lifter Converters

Convert 74 hydraulic lifters to solids and still use factory pushrods. Easy and inexpensive way to convert to solid lifters.

2180



## Andrews Ironhead Pushrods

Pushrods are made from 7/16 diameter tubing which will not interfere with rod covers. Steel pushrods are the best choice for stroker motors and drag applications where the greatest strength is needed. For street applications where quiet operation is desired, aluminum pushrods are recommended.

PCP	Type
240040	4 steel pushrods
240060	4 aluminum pushrods



## James Tappet Quad Seals BT 1981-84

79025 11133-A (25 pack)



## Pushrod Cover Seal Kit 80" BT L1979-84

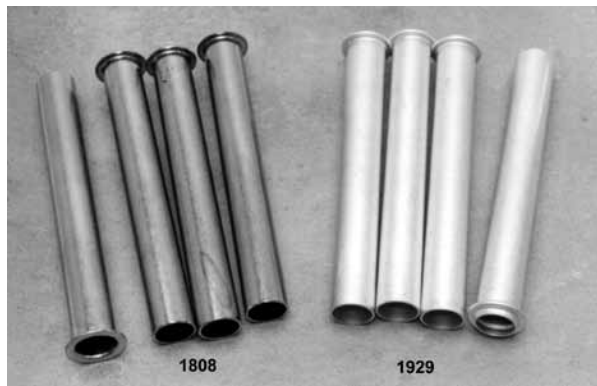
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# Pushrod Covers



## Chrome Push Rod Cover Hardware 1936-on

PCP	OEM	Item	Model	U/M
2000	17950-66	Clips, long	FX-FL 66-on	4 Pk
2001	17950-48	Clips, short	Panhead, XL	4 Pk
13101	17947-36	Spring		10 Pk
2002	17945-36	Chrome cup		4 Pk
13557	6762B	Spring washer		10 Pk



## Upper, Inner Pushrod Covers

Shovelhead (longest length) inner pushrod covers fit O.H.V. Harley 1936-on.

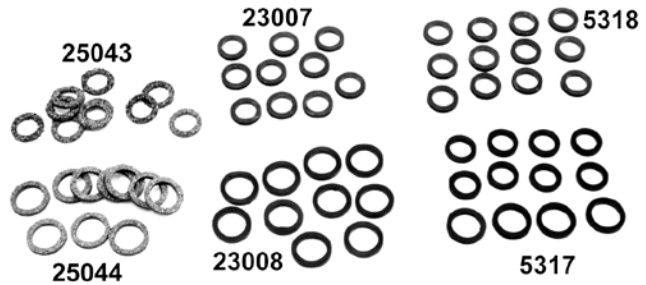
- 1808** Cork seal style
- 1929** Quad seal style
- 9213** L1979-on Shovel and L79-90 Sportster



## BT Chrome Pushrod Cover Dress-Up Kit

Kit includes chrome lifter base covers.

- | PCP   | Application        |
|-------|--------------------|
| 59174 | 1980-84 Shovelhead |



## OEM Push Rod Corks and Seals

Cork	Rubber	OEM	Size	U/M
25043	23007	17955-36	Small	10 Pk
25044	23008	17955-48	Large	10 Pk
<b>Machined Rubber Seal Kits</b>				
• offers improved sealing and longer life than old style cork seals				
PCP	Year	Model	Size	U/M
5317	to 1979	Pan/Shovel	4 Lrg/ 8 sm.	12
5318	36-47	Knucklehead	Small	12



## Upper Pushrod Cover Kits

Each kit contains 4 chrome plated retaining clips, 4 chrome plated cups, 4 springs, 4 cork gaskets, and 4 steel washers. Exact duplicates.

### Chrome Plated (Outer)

- | Part Number | Application                        | Clip Length |
|-------------|------------------------------------|-------------|
| 1765        | Knucklehead 1936-39                | 2"          |
| 1771        | Panhead and Sportster              | 2-3/8"      |
| 1772        | Shovelhead and 1940-47 Knucklehead | 3-1/2"      |



## S&S Pushrod Cover Kits

Includes top and bottom covers, cover cap, cover spring, and spring washer for four pushrods.

- | PCP    | Application                                    |
|--------|--|
| 934040 | Shovelhead 1979-84 (o-ring style bottom cover) |

# Pushrod Covers



## Complete Pushrod Cover Kit

All parts from top to bottom fit all V-Twin engines. Visible parts are all chrome and includes upper covers, inner cover, and lower covers.

### PCP Fits

- 1954** BT Knuckle 1936-39
- 1953** BT 74" Knuckle 1940-47
- 1952** BT Panhead 1948-65
- 1955** All Sportsters 1957-E79
- 34102** Sportster L1979-85
- 1959** Big Twins 1966-E79
- 1956** Stroker (longer) BT 1966-84
- 1951** BT Shovelhead Quad Type 1979-84



## Billet Chrome Pushrod Cover Set BT 1966-84

Features chromed aluminum construction and includes all parts shown including inner steel tubes, springs and silicone seals.

**34716** Kit



## Chrome Pushrod Cover Kits

These chrome plated pushrod covers have a decorative grooved pattern that will add a custom look.

**5105** Panhead/Shovel 1948-84



## Lower Pushrod Cover Kits

These stock pushrod covers are beautifully plated duplicates of the Harley part. Available in sets of 4 with cork gaskets for the following:

### Chrome Plated

- 1817** Sportster 1957-84
- 1818** Panhead/Shovelhead 1948-up
- 1819** Knucklehead 1940-47
- 1928** Shovelhead Quad Seal Type L1979-84
- 72091** Colony as above



## Skull Push Rod Cover Cups

Feature die-cast construction with chrome or gold plating, set of 4. Matching Kromettes with 1/4 x 20 studs in 5 packs also available.

### PCP Description

- 44010** Chrome cups
- 44002** Chrome kromett
- 44005** Chrome kromett w. red eyes
- 44003** Gold kromett

# Valves



## Panhead Valves with Forged Stems 1948-65

Head	Standard		Black Nitride		Hard Chrome	
	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust
STD	353	-	4173	2706	4175	-



## Rowe Forged Shovel Intake Valves

Drop forged from from silicone #1 material. Offered with black melonite heat treating process (nitride), chromed or plain stems.

PCP	Rowe	Application	Head Diam. ± .005
4177	720-12	Intake, chromed	1.940
32205	720-11	Intake, plain	1.940
32153	720-21	Intake, black +1/16"	2.000



## AV&V Stainless Steel Valves

Heat treated and nitride processed for excellent wear resistance. Features a 45 degree angle, cut below the lock groove to reduce stress and improve valve seal installation.

## Shovelhead Valves 1966-84

PCP	Valve	Head Diam.
31664	Exhaust	1.750" (also Pan intake/exhaust)
31665	Intake	1.955"

## Shovelhead Valves with Forged Stems 1966-84

For standard size heads.

2706 Nitride exhaust valve



## Rowe Knuckle Valves with Machined Heads

Head	Standard		Black Nitride	
	Intake	Exhaust	Intake	Exhaust
STD	32200	32201	32202	32203



## Preston Valves with Forged Stems

Model	Head	Standard	
		Intake	Exhaust
1936-47 Knuckle	STD	30017	30018
1936-47 Knuckle	OS 1/8	4187	4185

## Kibblewhite Black Diamond Valves

Panhead 1948-65						
PCP	Type	Head Diam.	Stem Diam.	Tulip	OL	Remarks
32053	IN	1.750"/44.45mm	0.3765"	23°	3.800"	Standard (OEM 18071-48)
32054	EX	1.750"/44.45mm	0.3760"	29°	3.820"	Standard (OEM 18082-57)
Shovelhead 1966-83						
PCP	Type	Head Diam.	Stem Diam.	Tulip	OL	Remarks
32093	IN	1.950"/49.53mm	0.3765"	23°	3.885"	Standard (18078-80)
32094	IN	2.000"/50.80mm	0.3765"	23°	3.885"	Oversize
32054	EX	1.750"/44.45mm	0.3760"	29°	3.810"	Standard (18082-57)
32096	EX	1.780"/45.21mm	0.3760"	29°	3.820"	Oversize
32097	EX	1.812"/46.02mm	0.3760"	29°	3.820"	Oversize
Large Stem Shovelhead 1978-83						
32098	IN	1.950"/49.53mm	0.3780"	23°	3.885"	Standard (18075-81)
32099	EX	1.750"/44.45mm	0.3760"	29°	3.820"	Standard (18086-81)
Recommended Valve Guide Seals-4 Pack						
PCP	Type of Seal					Guide Top Diam.
32019	IN/EX, Steel clad Viton					0.565"
32073	IN/EX, Solid White PC style Seal					0.565"



## Kibblewhite Powdered Metal Valve Seats

- Compatible with leaded and unleaded fuels including methanol and ethanol fuel blends
- Excellent thermal characteristics

PCP	OD +/- .0002	ID +/- .0005	HT +/- .0005	Type	Application
32367	2.0070"	1.562"	0.450"	IN/EX	Panhead 48-65
32370	2.1640"	1.750"	0.450"	IN	Shovelhead 66-77
32368	2.0600"	1.562"	0.450"	EX	Shovelhead 66-77



## XL Oversize Valve Seat

Can be used with unleaded gas.

PCP	Years	Size
17730	1957-69	2 x 1.687 x 9/32" (Stock 1.690 port size)
17731	1970-85	2-1/16" x 1.687 x 9/32" (Stock 1.650 port)

## AV&V Valve Seats

Made from heat and wear resistant high quality alloy steel, and are manufactured with clear identification markings and radius edges for easy installation. Resists intense valve pounding and effectively dissipates heat for consistent valve sealing. Choose size as needed. Machining may be required.

PCP	O.D.	I.D.	Thickness
31787	1.630"	1.180"	.385"
31789	1.757"	1.371"	.315"
31780	1.757"	1.410"	.430"
31788	1.880"	1.439"	.410"
31784	1.944"	1.570"	.400"
31781	2.008"	1.610"	.440"
31782	2.040"	1.590"	.420"
31790	2.068"	1.750"	.315"
31783	2.070"	1.610"	.460"
31785	2.135"	1.750"	.400"
31786	2.163"	1.750"	.455"

# Valves



## AV&V Stainless Steel Valves

These valves are heat treated and nitride processed for excellent wear resistance. These valves feature a 45 degree angle, cut below the lock groove to reduce stress in this area, as well as making valve seal installation easier.

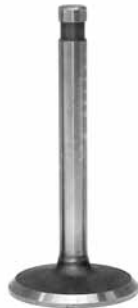
## Sportster 900-1000cc Valves

PCP	Valve	Application	Diameter	
			Head	Stem
31666	Exhaust	900cc 1958-69	1.562"	.339
31818	Intake	900cc 1957-71	1.812"	
31666	Exhaust	1000cc 1970-84	1.562"	.339
31667	Intake	1000cc 1970-84	1.940"	.311



## Preston Sportster Valves 1957-84

2708 Black nitride exhaust 1957-84



## Rowe Forged Sportster Valves

These valves are forged, shot peened with tip, stem and seat area machined. Exhaust valves made from 21-4N stainless steel and intakes from silicone #1 material. Offered with black melonite heat treating process (nitride), chromed or plain stems.

Head Diam.			
PCP	Rowe	Application	± .005
32175	734-03	Intake black 1957-69	1.822
32145	731-33	Exhaust black 1957-84 +1/16"	1.625
32146	731-53	As above, + 1/8"	1.687



## Kibblewhite Back Diamond Valves

• Black Nitroreg stems

Sportster 1957-69						
PCP	Type	Head Diam.	Stem Diam.	Tulip	OL	Remarks
32075	IN	1.825"/46.36mm	0.3095"	23°	3.565"	Standard (18071-58)
32076	EX	1.570"/39.88mm	0.3384"	29°	3.510"	Standard (18080-58R)
32077	EX	1.630"/41.40mm	0.3384"	29°	3.510"	Oversize
Sportster 1970-83						
PCP	Type	Head Diam.	Stem Diam.	Tulip	OL	Remarks
32086	IN	1.935"/49.15mm	.3090"	23°	3.620"	Standard (18080-70)
32087	IN	1.950"/49.53mm	.3090"	23°	3.690"	Standard (18069-65R)
32088	IN	2.000"/50.80mm	.3090"	23°	3.620"	Oversize
32076	EX	1.570"/39.88mm	0.3384"	29°	3.510"	Standard (18080-58R)
32077	EX	1.630"/41.40mm	0.3384"	29°	3.510"	Oversize
32091	EX	1.750"/44.45mm	0.3384"	29°	3.620"	Standard (18080-70R)



## Rowe Machined Sportster Valves

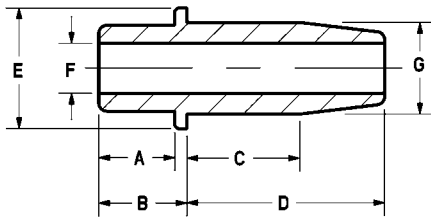
Forged one piece exhaust valves made from 21-4N stainless steel and intakes from silicone #1 material. Precision CNC machined with black melonite heat treating process (nitride), chromed or plain stems.

Head Diam.			
PCP	Rowe	Application	± .005
32147	730-13	Intake black 1970-84	1.940
32149	730-11	Intake plain 1970-84	1.940
32150	731-13	Exhaust black 1957-84	1.562
2709	731-12	Exhaust chromed 1957-84	1.562
32151	731-11	Exhaust plain 1957-84	1.562

# Valve Guides

## Kibblewhite Valve Guides

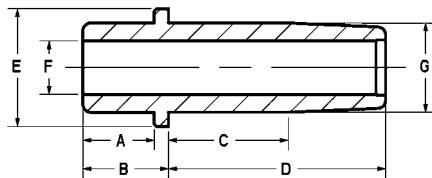
- Sportster 1957-83



<b>A</b>	0.470"	<b>D</b>	1.225"
<b>B</b>	0.545"	<b>E</b>	0.745"
<b>C</b>	0.700"	<b>F</b>	0.3085"



Intake-G (Std. 0.5650") Cast Iron	
PCP	Size
32078	Std.
32079	+0.001"
32080	+0.002"
32081	+0.010"



<b>A</b>	0.470"	<b>D</b>	1.225"
<b>B</b>	0.545"	<b>E</b>	0.745"
<b>C</b>	0.600"	<b>F</b>	0.33755"



Exhaust-G (Std. 0.5650") Cast Iron	
PCP	Size
32082	Std.
32083	+0.001"
32084	+0.002"
32085	+0.010"



## Kibblewhite Powdered Metal Valve Seats

PCP	O.D.	I.D.	Height	Type
32365	1.7570"	1.375"	.450"	Exhaust
32369	2.132"	1.690"	.450"	Intake



## Rowe Sportster Valve Guides

- 1957-E83 Sportster with shoulder
- .5645"

Type	Cast Iron		Ampco 45	
	Intake	Exhaust	Intake	Exhaust
STD	17640	17646	17552	
+0.001	17641		17553	
+0.002	17642	17648	17554	17558
+0.003	17643		17555	17559
+0.004	17644	17650		

## Rowe Unhoned Small Bore Cast Iron Guides

Sportsters 1979-on without flange

Intake	Exhaust	Size
17524	17582	STD
17525	17583	.001
17526	17584	.002
17527	17585	.003
17528	17586	.004



31741



31748

## AV&V Sportster Cast Iron Valve Guides

- Made from micrograin cast iron
- Use with stock style or machine for use with .530" teflon seals
- .309" Intake I.D.
- .339" Exhaust I.D.

Model	Sportster 1957-E83 Flange models only		Sportster 1957-E83 Models without Flange
	Intake	Exhaust	Intake
STD		31744	31748
+0.001	31741		
+0.002	31742		
+0.003	31743	31747	31751

These items may be AV&V or Jims Machining AV&V valves



## No Lead Seat Conversions

Nickle Chrome Alloy Composition for Shovelheads. Shovel intake seats may be used in Pans as oversize intake seats. Stock fit .0035. These are .006 interference fit.  
17520 Shovel Intake





# Valve Guides

## AV&V BT Valve Guides

- CNC machined with special hi-temp, Viton o-ring to prevent oil infiltration between guide and head
- Tapered and radiused nose for easier installation and better intake and exhaust flow
- Valves have a unique super grip finish at the top end to better grip valve seal.
- Use for stock replacement applications with OEM valve seal or machined for use with appropriate seals
- Can be used for intake or exhaust
- .375" I.D.

## AV&V Manganese Bronze Valve Guides

- Can be used with Stock style or Viton seals.
- Valves have a shortened top to allow for clearance in high lift applications
- intake guides can be fit to .0008" and exhaust guides to .0012" or greater when used with AV&V valves only
- Manganese bronze alloy lets valves be fit at tighter clearances with increased heat dissipation and greater durability

## AV&V Cast Iron Valve Guides

- Can be used with stock style or machined for use with .530" teflon seals.
- Has an unfinished I.D. and is ready to be honed or reamed after installation
- Made from micrograin cast iron

Model	Bronze Manganese				Cast Iron	
	Pan, Shovel 1200cc 1948-79		Shovel 1340cc 1979-84		Pan, Shovel 1200cc 1948-79	Shovel 1340cc 1979-84
Size	PCP	O.D.	PCP	O.D.	PCP	PCP
STD	<b>34050</b>	.566"			<b>31710</b>	
+.001	<b>34051</b>	.567"				
+.002	<b>34052</b>	.568"	<b>34060</b>	.627"	<b>31712</b>	
+.003	<b>34053</b>	.569"	<b>34061</b>	.628"		
+.004	<b>34054</b>	.570"	<b>34062</b>	.629"		
+.005	<b>34055</b>	.571"				<b>31725</b>
+.006	<b>34056</b>	.572"			<b>31716</b>	
+.025	<b>34057</b>	.591"	<b>34063</b>	.650"		



## K/W Pan/Shovel Valve Guide Seals 1948-83

Guide top diameter of 0.565". 4 Pack.

PCP	Type	Style
<b>32019</b>	IN/EX	Steel clad viton
<b>32073</b>	IN/EX	Solid white



## Valve Guide Oil Seals

PCP	Fits
<b>14001</b>	Intake XL 54-85 (10 pk)
<b>14002</b>	Exhaust XL 54-85 for .530" guide (10 pk)

## Installation Protectors

PCP	Stem Diam.	Type	UM
<b>32213</b>	0.3125"	IN	Pair
<b>32227</b>	0.3437"	EX	Pair



## Fluoro-Viton Seals

Seals are made from a fluoro-viton polymer with teflon added to prevent valve to seal friction. A metal spring keeps constant seal to valve tension to prevent oil consumption. These seals are then bonded to a steel jacket that provides a secure fit to the guide. The internal ribs are designed to allow for installation without any tools, but hold secure after installation. These seals are sold each.

PCP	Application	Stem	Guide
<b>32270</b>	XL int.	5/16	.531
<b>32271</b>	XL exh.	11/32	.531

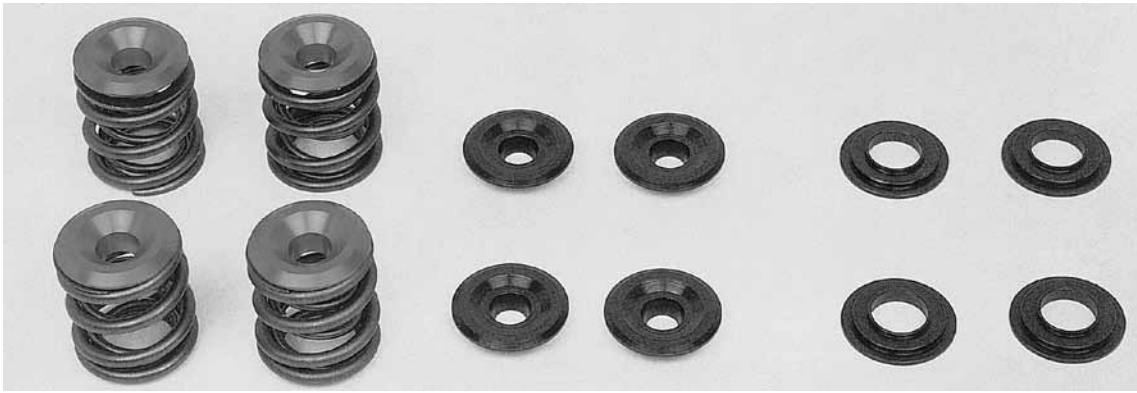
## Valve Guide Seal Installer Tool

White plastic valve guide seal installer tool. Fits Sportster 1980-84.  
**4110**



**Note:** Valve guide oil seals will require machining of valve guide and/or collar in order to re-establish overall valve guide height on all but the latest-style valve guides. Installation tools are available separately. Refer to service manual and valve guide specifications for modifications required.

# Valve Springs



If you are installing cams in a Shovel engine, the valve spring collars and related parts shown above will make things go a lot smoother. Our springs and collars are designed for easy installation and maximum reliability.

## Andrews High Lift Upper Spring Collars

Fits 74 & 80 motors. Used with high lift springs, cams with .600 lift can easily be accommodated. Made from T6 aluminum, collars are light weight, hard coated and very strong.

**271100** (4 collars)

## Andrews High Lift Springs

Fits 74 & 80" motors and will provide correct spring force for any of our performance cams. Installation does not require complicated machining.

**272110** (4 springs)

## Andrews Medium Lift Upper Spring Collars

For 74 & 80" motors. Springs are intended to work with stock springs and add approximately .060" spring travel with no modification. This is the easy way to install B or #2 cams in stock heads.

**276150** (4 medium lift collars)

## Andrews Low Profile Lower Spring Collars

For 74 & 80" motors and are similar to stock 1980 style parts but are lower profile for easier installation of higher lift cams. They are required parts if you are using 1980 style valve guides which utilize the "K" line stem seals. Material is heat treated steel.

**273120** (4 low profile lower collars)



## Shovelhead Valve Spring Kit by Sifton

Includes 4 intake and 2 exhaust valves with nitrated finish, complete spring set, keepers with upper and lower collars. 4 Piece valve set available separately.

### PCP Application

**34023** 1966-79 Kit  
**34024** 1980-81 Kit  
**34025** 1982-84 Kit  
**34026** 1966-84 Valve set



## Valve Spring Compressor

Necessary for removing or installing valves. Fits all overhead valve Big Twins except Evolution.

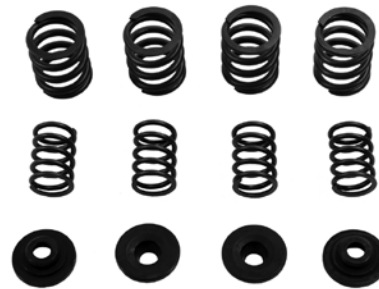
**2856** OEM 96600-36



## Kibblewhite XL Valve Spring Kit

For pre-evolution XL models. Heat treated steel retainers, keepers, lower collars and chrome silicone springs. Valve lift to .400" with seat pressure 90-100 lb. 330-340lb @ .400" lift.

**32074**



## Manley Valve Spring Set

Manley .490 valve spring kit features OD springs with steel top collars. Interference fit to reduce harmonics and control spring surge. Springs have 20% more pressure than stock. No machining required for installation. Use with stock lift cams to .490. Uses stock lower collars. Fits XL 1957-1985.

**32024**

# Valve Springs



## Valve Guide Oil Seals (Sold in 10 packs)

PCP	Fits
14003	BT 1948-78
14004	BT 1979-84



## Valve Guide Seal Installer Tool

- 4110** White plastic valve guide seal installer tool. Fits Sportster and Big Twins 1980-84.
- 4115** Black plastic valve guide seal installer tool. Fits BT models 1948-79

**Note:** Valve guide oil seals will require machining of valve guide and/or collar in order to re-establish overall valve guide height on all but the latest-style valve guides. Installation tools are available separately. Refer to service manual and valve guide specifications for modifications required.



## Fluoro-Viton Seals

Seals are made from a fluoro- viton polymer with teflon added to prevent valve to seal friction. A metal spring keeps constant seal to valve tension to prevent oil consumption. These seals are then bonded to a steel jacket that provides a secure fit to the guide. The internal ribs are designed to allow for installation without any tools, but hold secure after installation. These seals are sold in 5 packs.

PCP	Application	Stem	Guide
32272	80" Late Shovel	3-8	.625
32269	80" Shovel	3/8	.531
32271	XL exh.	11/32	.531



## S&S 1948-84 Valve Spring Kits

.550" Lift double valve spring kit for Panhead and Shovelhead models 1948-84 offers up to .550" lift. Includes 4 inner springs, 4 outer springs and 4 aluminum top collars. Use with stock style bottom collar, valve guides, valves with stock 3/8" stem and stock keepers. Compatible with thin stem valves if thicker keepers that maintain correct valve-stem top collar engagement are used. Late single bottom collars are available for use in S&S Shovel style heads and stock late 1981-85 Shovels.

PCP	Description
902053	1948-84 BT kit



## S&S .590" Lift Triple Valve Spring Kit 1948-84

1948-84 BT with up to .590" lift. Includes 4 top collars, 4 bottom collars, 4 each of outer, middle and inner springs; shims, and 8 keepers. Use with stock valve guides, stock valves with 3/8" stem and stock keepers. Compatible with thin stem valves if thicker keepers that maintain correct valve stem-top collar engagement are used. Note: .590" kit is year-group specific because of different bottom collars supplied with early and late kits. S&S heads require late 1981-84 style kit #902063 or #902064.

### 1948-E1981 For Up To .590"

902060	Kit with steel top collars
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### Late 1981-84 or S&S Shovel-Style

902063	Kit with steel top covers
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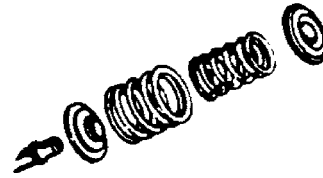
## K/W Valve Guide Oil Seal Set

Set of two seals only.

PCP	Item
32213	5/16" Green
32225	3/8" Red 1948-83
32227	11/32" Yellow or clear



# Valve Springs



## Stock Valve Spring Kits

Each valve spring kit is manufactured from top quality materials. Heat treated with machined ground end for a perfect fit. Available for all 1948-83 BT and 57-Up XL's. Made in USA.

### Valve Springs

PCP	OEM	Year	Model
902053	18201-57B	48-84	BT, S&S with top collars
32007	18203-83	83-85	Sportster
32006	18203-57A	57-80	Sportster

Valve Collars			
Lower Valve Collars			
PCP	OEM	Years	Application
30000	18222-36	36-47	61" & 74" OHV
30001	18222-48	48-79	61", 74", 80"
30002	18222-79	81-84	74", 80"
30007	18220-57	57-E81	900, 1000
30008	18220-81	81-E83	900, 1000
30009	18220-83	L-83-85	900, 1000
Upper Valve Collars			
PCP	OEM	Years	Application
30004	18221-36	36-80	61", 74", 80"
30005	18219-81	81-84	80"
30010	18221-57B	57-84	900, 1000



## Valve Spring Kits (Eastern)

Includes all springs, collars and keepers necessary for each application.

PCP	Model	Year	Replaces
32014	61 & 74	36-47	18201-57B, 18204-36A, 18221-36, 18222-36, 18228-36
32015	Pan, BT Shovel	48-79	18201-57B, 18204-36A, 18221-36, 18222-48, 18228-36
32016	Shovel Big Twin	80-81	18201-82, 18202-82, 18221-36, 18222-48, 18228-36
32017	Shovel Big Twin	81-84	18201-82, 18202-82, 18209-81, 18222-81, 18228-36
32021	XL	57-81	All Models
32022	XL	81-83	18203-57A, 18204-57A, 18220-81, 18221-57B, 18228-30
32023	XL	83-85	18203-83, 18204-83, 18220-83, 18221-57A, 18228-30

Kibblewhite OEM Replacement Valve Spring Kit				
Manufactured to exact OEM specifications.				
Panhead 1948-65				
PCP	Lift	Seat Pressure		Retainers
32052	.415"	125-135 lb.	265-275 lb. @ .415"	Steel
32004	Replacement keepers			
Shovelhead 1966-83				
PCP	Lift	Seat Pressure		Retainers
32092	.415"	125-135 lb.	265-275 lb. @ .415"	Steel

## Valve Shims



PCP	Fits	Years	U/M
13508	Big Twins .030" thick	48-79	25 Pack
13509	Shovelhead .015" thick	79-84	25 Pack
13510	Shovelhead .030" thick	79-84	25 Pack



## AV&V High Performance Valve Springs

Pan and Shovel valve springs are manufactured from an ultra clean, high silicon and vanadium alloy wire and are then subjected to an intensive shot peen process to provide fatigue resistance. Recommended for up to .530" lift.

PCP	Diameter Inside-Out-side	*Seat Pressure and Initial Height	Nominal Open Pressure and Height	Coil Bind
34034	0.950" - 1.540"	155 # @ 1.455"	320# @ .980"	.850

\* Note: On late style Shovelheads (1980-84) 1.455" = +/- 1.630" valve stem protrusion (stock protrusion = 1.600" to 1.640")

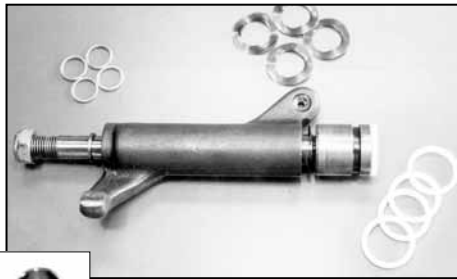
# BT Shovelhead



## Rocker Adjuster Kit

Fits all Shovelheads and stops noisy top end clatter. Kit contains 4 steel spacers, 4 tempered preload washers and 4 no-leak rocker seals. Fits all 1966-83 FL, FX models.

- 4959** Rocker adjuster kit
- 14502** No leak seals 57-86 (4 pack)



## Jims Rocker Arm Bushing (Must be Reamed)

**31100** Stock replacement BT 1966-on, XL 1957-on (17428-57) (8 pack)



## Kibblewhite Rocker Arm Bushings

•Constructed of SAE660 bearing bronze bar stock.

PCP	Application	OD	U/M
<b>32233</b>	1986-11	0.6795"	8 Pk



## 12 Point Head Bolt Kits

These are chrome plated and include washers. The big bore types allows wrench clearance on 1948-84 Pan & Shovels. Special flat washers are included in the XL kit.

- PCP Model**
  - 5305\*** BT 74-80" 1948-84, chrome (16814-48)
  - 3582\*** As above, black oxide
- \* Install these bolts with a 7/16" 12 pt. box Wrench.



## Chrome Shovelhead Rocker Arm Cover

Chromed rocker arm cover sets for all Shovelhead powered motors, 1966-84. Triple step chrome plate. Replaces OEM 17516-77B; 17517-77B; 17518-80, 17519-80

- 2935** Chrome set
- 34930** Rear, polished
- 34931** Front, polished
- 34932** Pair, polished
- 10819** Stud set



## Allen Rocker Shaft Plugs

Set of 4 chrome shaft plugs fits 1971-on FL-XL models. Includes sockets and cups.

**5419**



## Engine Air Scoop for Harley

Copper-buffed and chrome-plated. This attractive and functional item forces needed air to rear cylinders.

- 3218** Pre-1975 (29092-77)
- 441** With cutaway for petcock 1975-84 Shovelhead

# BT Shovelhead



## S&S High Output Super Stock Cylinder Heads

**Single plug**, designed primarily for stock replacement including, front and rear cylinder heads completely assembled with valve seals and guides, valves, valve springs, required gaskets including cylinder base and head gaskets, rocker cover and exhaust pipe mounting hardware, and installation instructions. Intake valve is 1-15/16" and exhaust valve is 1-3/4".

All parts are interchangeable with stock parts.

Engine Type	Bore	Aluminum Finish		Black Powdercoat Finish	
		Complete Assembly	Head Set Only	Complete Assembly	Head Set Only
1966-78 O-ring	Stock	901496		901596	901592
	3-5/8"	901497		901597	
1979-84 Band	Stock	901498	901494	901598	
	3-5/8"	901499	901495	901599	901595

Note: Head set only is bare, valves and springs are **NOT** included



## S&S Shovelhead Style Rocker Arms

Forged steel and shot peened for maximum strength. Roller tip reduces side thrusting on valve stem in high lift applications and .750" bushings provide 50% more load bearing area than stock. Can be oiled through the pushrods when used with S&S Shovel tappet guides and pushrods. Compatible with stock or S&S billet rocker boxes. Set includes two each front and rear rocker arms.

**904320** Set

**904350** Replacement rocker shaft



## Colony Head Bolts and Washers

- Accurately machined high strength steel
- Hardened to original Harley specifications
- Features rolled threads for superior strength and fit.
- Kits include bolts and washers

Head Bolt Kits			
Cad	Chrome	Parker.	Application
2118	5212	-	1936-39 Knucklehead
2119	-	9726	1940-47 Knucklehead
1820	5214	-	1948-on Panhead/Shovelhead
Replacement Washer Kits			
5200	8488	2010	All HD with 7/16"bolts



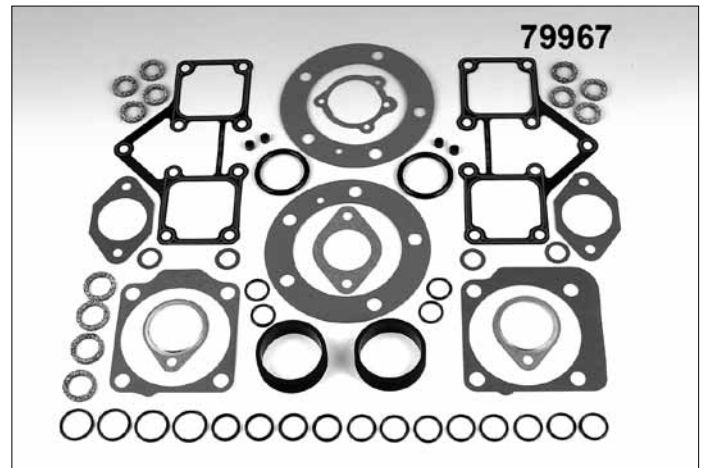
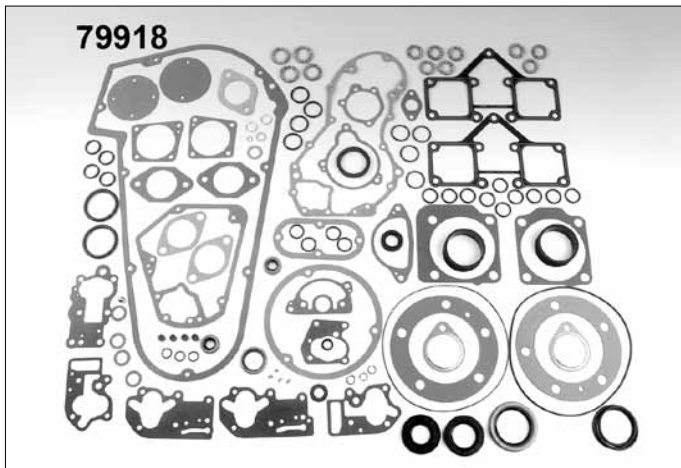
# BT Shovelhead



## Shovelhead Top End Kits

Includes prefitted cylinder set, late style assembled heads, cylinder base nuts, rocker box studs and nuts, top end gasketset and choice of polished or chrome assembled rocker boxes. All kits offer 8.5:1 compression.

	74"	80"	Rocker Finish
950860	950862		Polished
950861	950863		Chrome



## James Motor Gasket Kits

PCP	OEM	Description
79916	17028-48	FL 74" 1948-65 w/blue teflon
79918	17029-70	FL,FX,FLT 1966-84 w/blue teflon
79919	17029-70-A	Shovelheads 1966-84 w/fire ring

SEE THE GASKET SECTION FOR MORE GASKETS

## Top End Kits

These kits include all gaskets and O-rings including push rod corks from the cylinder base and up. Perfect for piston and valve jobs.

PCP	OEM	Fits
79967	17034-66	James 1966-84 with blue teflon head gasket
79962		As above, big bore
79968	17034-66X	James 1966-84 Fire ring head gasket, cork o-rings and silicone rocker gaskets.



## Jims Shovelhead Rocker Shaft

Std. O.D. on big end is .937", smaller end is .434".

31103 BT 1966-83 (17611-66B)

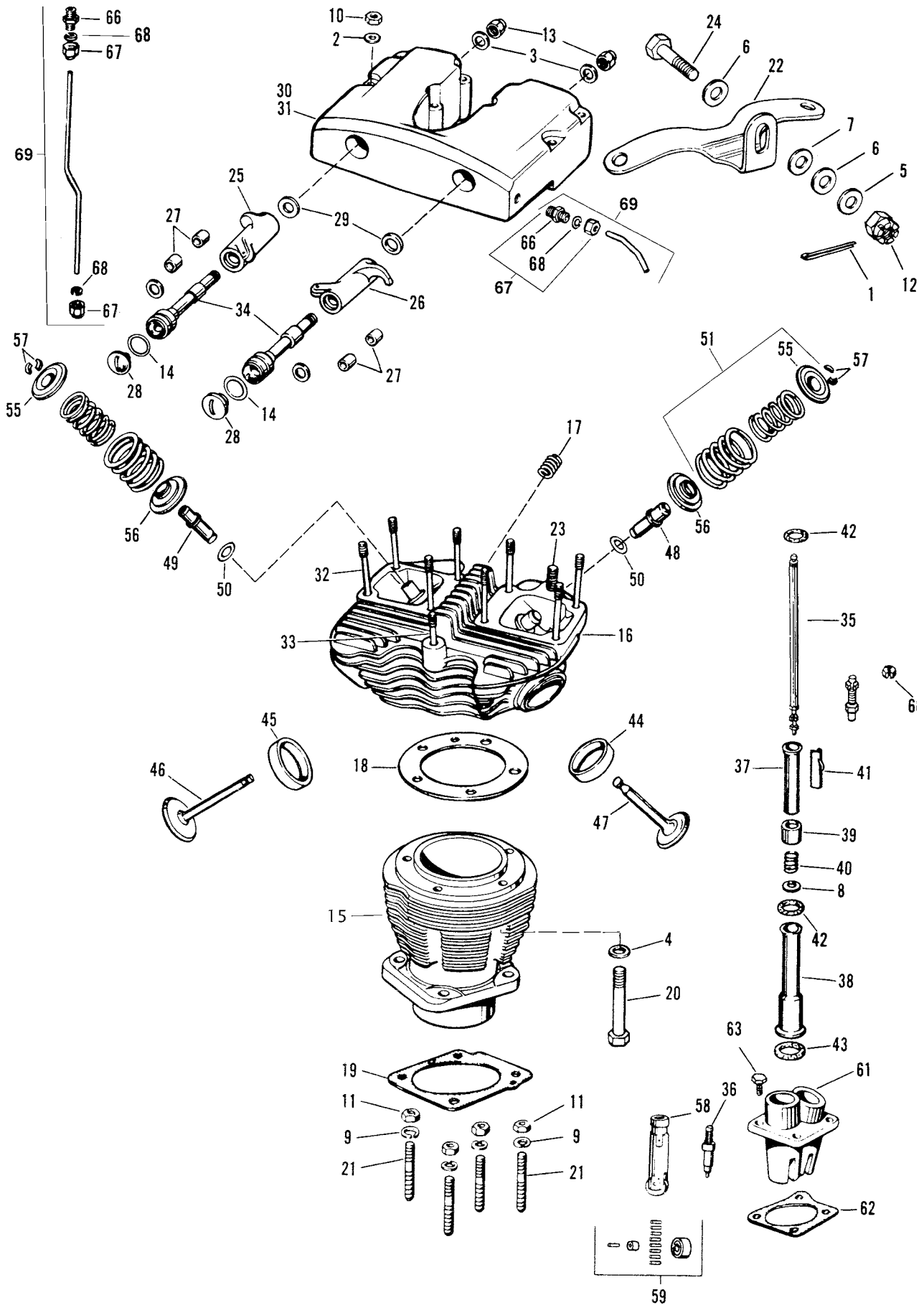


## Sifton Rocker Arm and Shaft Kit Shovel 66-84

Kit includes 4 rocker arms with bushings installed, 4 shafts, shims, spacers and chrome end caps and nuts.

30071

# BT Shovel Top End





# BT Shovel Top End

## 1966-on Cylinders, Rocker Arms, Valves and

### Gaskets

#	PCP	OEM	Description
1	20092	531	Cotter pins 3/32 x 7/8 (100 pk)
3	12000	6466W	Washer 7/16 x 3/4 x .025 (10 pk)
4	5200	6469HW	Washer, head bolt cad (10 pk)
	8488		As above, chrome
8	13557	6762B	Spring washer (10 pk)
11	9101	7839	Cad nut 7/16 x 1/2 x 5/8 hex (8pk)
13	12511	7872	Red cap nut 3/8-20 (4 pk)
14	14501	11101	O-ring, rocker arm shaft
	14572		Oversize as above (10 pk)
	79004		James as above (25 pk)
15	179	16484-66	74" Front cylinder 1966-78
	34810	16498-80A	80" Front cylinder 1978-84
	178	16492-66	74" Rear cylinder 1966-78
	34811	16499-80	80" Rear cylinder 1979-84
16	(See S&S for front and rear heads)		
17	1546	16725-66A	Heli-coil insert, spark plug hole
18	25296	16770-66	Gasket, cylinder head, blue
	79212	16770-66	Gasket, cylinder head
	25003	16770-66	Gasket, 0.40 cyl. head, MLS (2)
19	79232	16776-63	Gasket, front cylinder base
	79234	16777-63	Gasket, rear cylinder base
	79550		As above steel/coated .018 (set)
20	1820	16814-48	Cyl/head bolt kit cad 12pt (20 pc)
	5214		Chrome head bolt kit (20pc)
	5368		Chrome allen bolt kit (20 pc)
	1727		Chrome acorn head bolts (20 pc)
	3898	16836-78	Black stud spacers 78-84 (8 pk)
21	5472	16831-30	Cylinder base stud 1930-77 (8 pk)
	5473	16837-78	As above, 1978-84 (8 pk)
22	1372	16852-67	Bracket, chrome motor mount
	4492	16853-48	As above with choke bracket



### James Shovelhead Gaskets

79212	16770-66-A	Head gasket, blue teflon (5 pk)
79213	16770-66-S	BB top set, blue teflon, paper base
79214	16770-66-X	Firing head gasket set 1966-84
79232	16776-63	Front cylinder gasket (10 pk)
79234	16777-63	Rear cylinder gasket (10 pk)
79235	16777-66-S	Big bore front & rear cylinder (10 pk)
79471	16777-66X	As above, metal coated .038 (set)
79263	17540-69-A	Rocker box gasket .031 thick (10 pk)
79264	17540-69-X	Rocker box gasket w/silicone (5 pk)
79311	17540-99-X	As above metal (pair)
79104	17955-48	Large cork pushrod gasket (100 pk)
79106	17955-48-FL	Cork pushrod gasket kit
79270	18633-48-A/C	Rear tappet guide 1948-91.031 (10)
79271	18633-48D	As above .020 1992-99 (10 pk)
79273	18634-48-A/B	Front tappet guide 1948-91.031 (10)
79274	18634-48C	As above .020 1992-99 (10 pk)
79278	25225-36-C	Gear cover gasket 1941-69 (10 pk)
79280	25225-70-B	Gear cover 70-92 black .031 (10 pk)
79281	25225-70-K	Gear cover gasket kit 1970-92
79282	25225-70-X	Cam cover w/silicone 1970-92 (5 pk)

#	PCP	OEM	Description
23	10817	16864-48	Stud, cylinder head motor brace
25	2678	17360-66	Rocker arm, rear exhaust and front intake
26	2679	17375-66	Rocker arm, front exhaust and rear intake
27	18503	17428-57	Bushing rocker arm (4 pk)
28	(See Colony for rocker arm shaft end screw)		
29	822	17452-66	Spacer, rocker arm (4 pk)
30	34930	17500-66	Rocker arm cover polished
31	34931	17502-66	Rocker arm cover polished
32	10818	17506-66	Stud, rocker arm cover (ea)
33	10820	17508-66	Stud, rocker arm cover (ea)
34	1365	17611-66	Shaft, rocker arm
35	30500	17904-66	Push rod assembly (ea)
36	34020	17920-53	Push rod hydraulic unit (ea)
37	1808	17935-66	Inner p/rod cover 1966-78 (4 pk)
	9213		As above L1979-84 (4 pk)
38	1818	17938-48B	Lower p/rod cover 1966-78 (4 pk)
	1928		As above quad seal type L79-84 (4 pk)
39	2002	17945-36B	Cap, cover spring (4 pk)
40	13101	17947-36	Spring, pushrod cover (10 pk)
41	2000	17950-66	Retainer, spring cap (4 pk)
42	25043	17955-36	Small cork p/rod washer (10 pk)
	79268		James as above (100 pk)
43	25044	17955-48	Large cork p/rod washer (10 pk)
	79104		James as above (100 pk)
44	17520	18018-66	Insert, intake valve seat
45	N/A	18017-66	Insert, exhaust valve seat
46	32093	18074-66	Intake valve
47	32054	18082-57	Exhaust valve
48	17616	18163-48	Valve guide, intake STD 48-78
	17630		As above 1979-84
49	17660	18188-48A	Valve guide, exhaust STD 48-78
	32128		As above 1979-84
50	79090	18196-51	Gasket, valve guide (20 pk)
51	902053	18201-57	S&S valve spring set 1966-84
	32015	18202-57	Complete valve spring set 48-79
	32016		As above 1980-81
	32017		As above 1981-84
55	30004	18221-36	Upper collar 1936-80 (4 pk)
	30005	18219-81	Upper collar 1981-84 (4 pk)
56	30001	18222-48	Lower collar 1948-79 (4 pk)
	30002	18222-79	Lower collar 1981-84 (4 pk)
57	30012	18228-36	Valve key (8 pk)
58	1084	18522-53A	Tappet with roller 1953-84
59	15614	18534-29A	Tappet roller kit (ea)
	15622		As above (set of 4)
60	12529	18570-38	P/rod split nuts 5/16-32 (4 pk)
61	32330	18600/10-66	Tappet blocks, chrome (set)
62	79270	18633-48A	Gasket, R/tappet guide (10 pk)
	79273	18634-48A	Gasket, F/tappet guide (10 pk)
63	5277	18660-53	Cad screw, tappet guide (16 pc)
	5300		Cad 12 point screw 1976-* (8 pk)
66	N/A	63526-57	Oil line fitting, arm cover (5 pk)
67	2260		Chrome fittings kit 1966-on
68	14073	63529-57	Oil line sleeve (10 pk)
69	1354		Complete oil line kit chrome 1966-84 (1982-85 style)
N/S	25004		0.038 Rocker gasket, foamet 10

# BT & XL Rocker Box Nuts/Bolts



## Chrome Rocker Box Cap Nut Kit

Chrome plated rocker shaft nuts and washers, plus rocker box cap nuts add a fresh new detailed look to all Shovelhead engines 1966-83.

**2875**



## Rocker Shaft End Nut Kit

Cap style end nuts and washers will replace the "Red Dot" nuts found on all Shovelhead 1966-84 and Sportster 1957-84.

**2634** Chrome Plated



## Chrome Plated Rocker Shaft End Plugs

These chrome plated rocker arm shaft end plugs will add that classic Knucklehead look to any Sportster or Shovelhead engine. Installation or removal is much easier than original slotted Harley part. Packaged 4 per set.

**1717** Fits Sportster & Shovelhead 1971-84

**1718** Fits Sportster 1957-1970 & Shovelhead 1966-70



## Rocker Shaft End Nut Kit

Acorn style end nuts and washers will replace the "Red Dot" nuts found on all Shovelhead 1966-84 and Sportster 1957-84.

**5319** Chrome Plated



## Shovelhead Stud Kit

This kit contains 8 long studs, 2 short stud and 1 motor mount stud.

**PCP** **OEM**

**10819** 17506-66, 17508-66 & 16864-48



## Cylinder Head Motor Brace Mounting Kit

Accurately reproduced studs, nuts, and washers used to mount motor brace to cylinder head.

**PCP** **Description**

**72368** 1948-65 Panhead, parkerized

**72369** 1948-65 Panhead, cadmium

**72370** 1966-84 Shovelhead

## Rocker End Shaft Plastic

### Cap Nut

OEM type nut with coloured plastic end 7/16 x 20 thread.

4 pack. Replaces OEM 7872.

**PCP** **Colour**

**12511** Red

**12512** Black

**12605** Green

**12606** Blue

**12607** Orange



# BT & XL Rocker Box Nuts/Bolts

## Rocker Shaft End Caps

Colony designed end caps provide ease of installation, ample clearance between gas tank, and a custom touch for all Shovelhead 1971-on and Sportster 1971-84.

- 3589** Chrome Plated
- 5285** Cad Plated
- 5286** Black Oxide



## Rocker Box Bolt Kit

Chrome plated acorn style bolts fit rocker boxes all Sportster 1957-84.

- 1712** 1957-76
- 1789** 1977-84

## Rocker Box Bolt Kit

Chrome plated cap style bolts fit rocker boxes all Sportster 1957-84.

- 2876** 1957-76
- 2877** 1977-84



## Rocker Box Nut Kit

Chrome plated acorn nuts fit rocker boxes and rocker arm shafts. Kit includes rocker arm shaft washers. Fits all Shovelhead 1966-84.

**1713**

## Rocker Box Nut Kit

Plated hex nuts and flatwashers add a clean, detailed, stock look to all Shovelhead Harley Davidson 1966-83.

- 5280** Chrome Plated
- 5281** Cad Plated



## Rocker Shaft End Cap and Nut Kit

Nice reproduction of original style end caps in choice of chrome or cad plating for Sportster and Shovelhead.

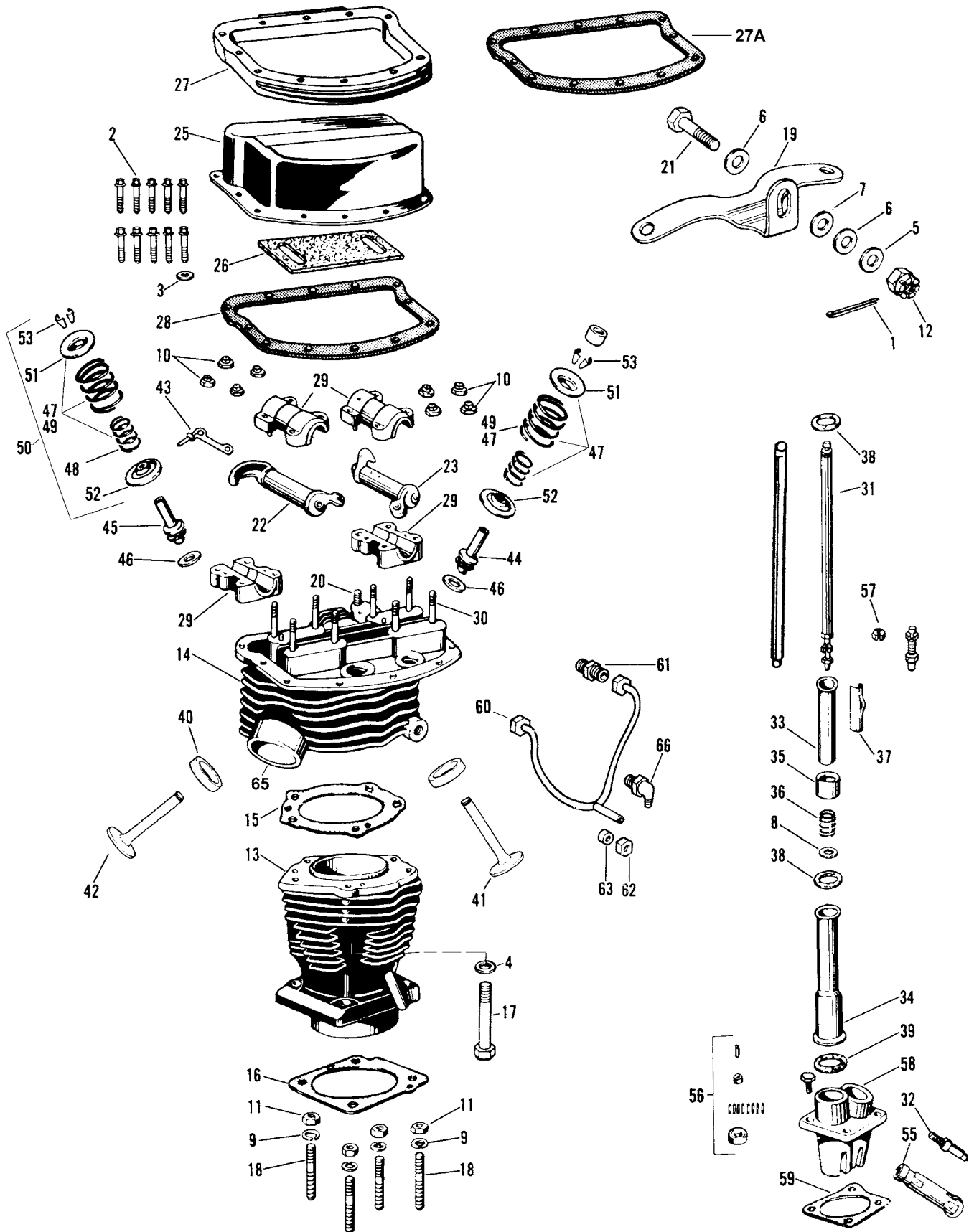
- 3586** 1957-70 Chrome
- 5216** 1957-70 Cad
- 3588** 1971-84 Chrome
- 5217** 1971-84 Cad
- 72020** 1957-70 Cad XL slot style

## Rocker Box Bolt Kit

Chrome plated allen style bolts fit rocker boxes all Sportster 1957-84.

- 5380** 1957-76
- 5381** 1977-84

# Panhead Top End



# Panhead Top End 1948-65

#	PCP	OEM	Description			
1	<b>20092</b>	531	Cotter pin 3/32 x 7/8 (100 pk)	35	<b>2002</b>	17945-36B Cup, cover spring (4 pc)
2	<b>5323</b>	3578W	Cad hex screw 10-24 x 1-1/4 (24 pc)	36	<b>13101</b>	17947-36 Spring, push rod cover (10 pk)
3	<b>9985</b>	6150W	Cad washer for above (24 pc)	37	<b>2001</b>	17950-48 Retainer, spring cap (4 pk)
	<b>9984</b>		As above, chrome (24 pc)	38	<b>25043</b>	17955-36 Small push rod cork (10 pk)
4	<b>5200</b>	6469	Cad head bolt washers (10 pc)		<b>79268</b>	17955-36 James, as above (100 pk)
	<b>8488</b>		Chrome as above	39	<b>25044</b>	17955-48 Large push rod cork (10 pk)
8	<b>13557</b>	6762B	Push rod spring washer (10 pk)		<b>79104</b>	17955-48 James, as above (100 pk)
9	<b>5201</b>	7055	Cad lockwasher (8 pc)	40	<b>N/A</b>	18057-48 Valve seat int & exh (no lead)
	<b>9715</b>		Chrome as above	41	<b>353</b>	18071-48 Intake valve
	<b>9716</b>		Parkerized as above	42	<b>32054</b>	18082-52A Exhaust valve
10	<b>12506</b>	7727	Nut 5/16 x 24 flexloc (8 pk)	43	<b>4102</b>	18100-49 Oiler, front intake valve
11	<b>2154</b>		Chrome as above		<b>4106</b>	18102-49 Oiler, rear intake valve
	<b>9624</b>		Parkerized as above	44	<b>17616</b>	18163-48 Valve guide, intake STD (See guides for more options)
13	<b>177</b>	16485-55	Front cylinder w/internal oil line	45	<b>17660</b>	18188-48A Valve guide, exhaust STD (See guides for more options)
	<b>176</b>	16492-55	Rear cylinder w/internal oil line	46	<b>79090</b>	18196-51 J/gasket, valve guide (20 pk)
15	<b>79210</b>	16770-48	Gasket, cylinder head (5 pk)	47	<b>902053</b>	18201-57B S&S Spring set w/top collars
16	<b>25023</b>	16776-48	Gasket F/cylinder 48-62 (10 pk)	50	<b>32015</b>	Complete valve spring kit
	<b>79231</b>		James as above (10 pk)	51	<b>30004</b>	18221-36 Collar, upper valve spring (4 pk)
	<b>79232</b>		Gasket, F/cylinder 63-84 (10 pk)	52	<b>30001</b>	18222-48 Collar, lower valve spring lower (4 pk) 1948-79
	<b>25025</b>	16777-48	Gasket, R/cylinder 48-62 (10 pk)	53	<b>30012</b>	18228-36 Valve key (8 pk)
	<b>79233</b>		James as above (10 pk)		<b>30023</b>	Valve key (8 pk)
	<b>79234</b>	16777-63	Gasket, R/cylinder 63-84 (10 pk)	55	<b>1084</b>	18522-53A Hydraulic tappet with roller STD
17	<b>1820</b>	16814-48	Cad headbolt/washers (20 pc)	56	<b>15614</b>	18534-29A Tappet roller kit (each)
	<b>5214</b>		As above, chrome (20 pc)		<b>15622</b>	As above, set of 4
18	<b>5472</b>	16831-30	Studs, cylinder base (8 pk)	59	<b>79270</b>	18633-48A Gasket, .031 tappet guide rear cylinder (10 pk)
19	<b>4492</b>	16853-48	Bracket, motor mount		<b>79273</b>	18634-48A Gasket, .031 tappet guide front cylinder (10 pk)
20	<b>10817</b>	16864-48	Stud, cylinder head motor brace	60	<b>3845</b>	62780-63 Chrome rocker feed oil line 1963-65
22	<b>2333</b>	17360-48	Rocker arm, R/exh., F/intake		<b>21008</b>	As above, raw finish
23	<b>2334</b>	17375-48	Rocker arm, F/exh., R/intake	61	<b>N/A</b>	63526-57 Fitting, oil line 1963-65 (5 pk)
25	<b>912</b>	17500-54	Chrome rocker arm cover set	63	<b>14073</b>	63529-57 Rubber seal 1963-84 (10 pk)
26	<b>25035</b>	17507-48	Pad, rocker arm cover (pr)		<b>79459</b>	James as above (25 pk)
27	<b>3993</b>	17509-54A	Chr/alloy "D" rings (w/screws)	64	<b>10593</b>	63542-63 Elbow, oil line 1963-65
27A	<b>16507</b>		Chr/steel "D" rings (no screws)	65	<b>16505</b>	Exhaust manifold repair 48-65 (weld-on) (pr)
28	<b>79265</b>	17541-48B	Thick gasket, cover (10 pk)			
	<b>25042</b>		Thin gasket, cover (10 pk)			
	<b>79266</b>		James as above (thin) (10 pk)			
29	<b>3379</b>	17611-48A	Rocker block assembly R/exh. and F/intake			
	<b>3381</b>	17611-48A	Rocker block assembly F/exh. and R/intake			
30	<b>10906</b>	17647-48	Stud, rocker arm block (8 pk)			
31	<b>1701</b>		Push rods 1948-52 solid (set)			
	<b>1766</b>	17905-53B	Push rods 1953-65 (set)			
32	<b>34020</b>	17920-53	Push rod, hydraulic unit			
33	<b>1808</b>	17935-48B	Upper push rod cover (4 pc)			
34	<b>1818</b>	17938-48B	Lower push rod cover (4 pc)			



## 12 Point Head Bolt Kits

These are chrome plated and include washers. The big bore types allows wrench clearance on 1948-84 Pan & Shovels.

PC #	OEM #	Model	Years
<b>5305*</b>	16814-48	BT 74-80	1948-84
<b>3582*</b>	Black Oxide	BT 74-80	1948-84

\* Install these bolts with a 7/16" 12 pt. box Wrench.

# Panhead Motor



## Chrome Panhead "D" Rings

Thick aluminum "D" rings and steel "D" rings to fit all original equipment pan covers as well as any of the aftermarket offerings.

PCP	Finish	Size	Material
3993	Chrome	Thick	Aluminum w/screws
16507	Chrome	Thin	Steel (17541-48)
19870	Zinc	Thin	Steel (17541-48)
19868	Chrome	Thin	Aluminum (17509-54A)
19867	Polished	Thick	Aluminum (17509-54A)
19877	Cast	Thick	Alloy



## Replica Stainless Steel Panhead Valve Covers

Covers feature the original shape for exact fitment. Replaces 17500-48.

- 19796 Stainless steel
- 19797 Chrome



- 5324 Chrome Plated. Use with Steel "D" Rings
- 5325 Cad Plated. Use with Steel "D" rings



## Panhead Valve Cover Screws

Exact duplicate of special screws used on all Harley Panhead valve covers 1948-1965.

- 5321 Chrome, use with aluminum "D" rings
- 5323 Cad, use with aluminum "D" rings
- 5326 Chrome allen screws for aluminum "D" rings
- 5327 Chrome allen screws for steel D rings
- 1755 Chrome acorn style
- 2874 Chrome cap style



## Steel Panhead Valve Covers

Covers feature the original shape for exact fitment. Replaces 17500-48.

- 912 Chrome Pan cover (17500-48)
- 19871 Chrome Pan cover, Paughco (17500-48)
- 19872 Aluminum Pan covers (17500-48)
- 19869 Chrome ribbed cover, Paughco

## Chrome Valve Cover Washers (not shown)

Duplicate of washers used under hold down screws on 1954-65 Panhead (6150W).

- 9984 Chrome
- 9985 Cad

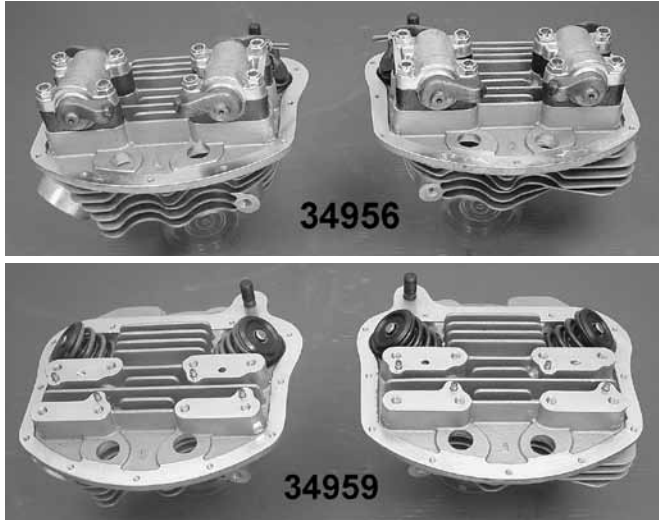


## Oversized Panhead Valve Cover Screws

Stock style screws with oversized 1/4-20 threads to be used for stripped heads on 1948-65 Panheads. 6 Screws per kit.

Chrome	Cad	Application
72013	72014	Use with aluminum D rings
72015	72016	Use with steel D rings

# Panhead Motor



## Replica 1948-65 "Shop Ready" Panheads

Features original contour castings with the added detail of the stock intake and exhaust port areas and are assembled with cast iron guides, valve stem seals, oilers and nitrated valves Pan exhaust, Shovel intake in combination with a complete spring and collar set. Matched rocker arm assemblies installed with heat treated studs and nuts complete the assembly. Fully assembled and ready to install. Order original plumber style or o-ring type intake manifold style. PCP# 34956 accepts outside overhead oil line also available without rocker arm assemblies.

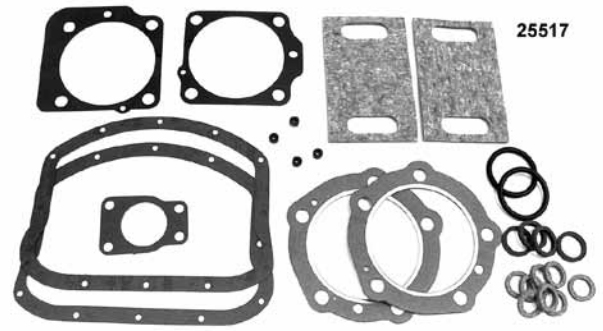
Full Asbly	Heads w/Valves	Year	Intake
34954	-	1948-54	Plumber
34955	-	1955-62	O-ring
34956	34959	1963-65 (OHO)	O-ring



## 1948-65 Panhead Rocker Arm Assembly Kit

Includes all pieces to completely assemble the rocker arms on both heads. Includes 4 rocker arm assemblies with matching fitted rocker arms, heat treated studs and lock nuts, intake oiler tubes and dowel pins.

30034



## Preston Pan-Shovel Motor Gasket Kits

PCP	Application
25517	Top end gasket set Pan 61", 74" 1948-65
25518	Top end gasket set Shovel 1966-84
25500	Engine set Pan 61", 74" 1948-65
25501	Engine set BT Shovel 74" 1966-69



## Panhead Valve Cover Screw Kit

OEM stock style fasteners used on 1951-54 Panhead.

72850



## Exhaust Spigot

Machined aluminum spigot allows the rebuilding of the exhaust attachment point on a classic Panhead engine.

PCP	Model	UM
32009	All Panhead	Each

# Panhead 1948-65



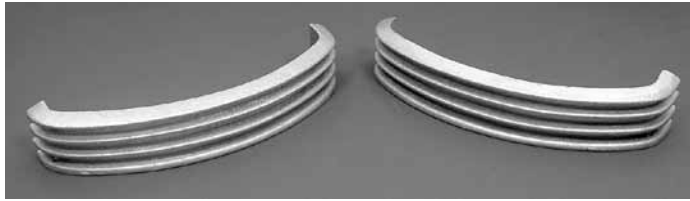
## Panhead Engine Case

- Accepts Panhead lifter blocks and cylinders

Includes:

- #1009 std. pinion right side case race
- Cam chest idler shaft kit & circuit breaker idler shafts
- #15607 cam needle bearing
- #5472 Cylinder base stud set
- #1553 Cad motor case drain/oil pump body plug
- #10904 primary breather tube
- Requires #5472 Timken bearing assembly for the left side
- Features blank number boss, there is no serial # on the case

PCP	Fitment
58058	1958-62 FL



## Panhead Finned Accessories

Cast replica Panhead fins are to be used with thin D-rings. (you must supply the original parts)

**45075** Panhead fins (pair)



## Panhead 1/8" Fibre Paper Gaskets

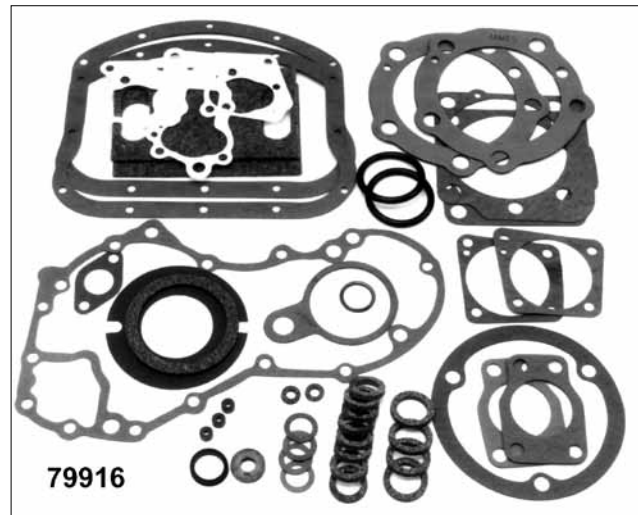
Sold in pairs for BT 1948-65.

**25245**



## James Top End Gasket Kits (Pre-Shovel)

PCP	OEM	Description
<b>79964</b>	17034-38	E, EL 1941-47 w/blue teflon
<b>79965</b>	17034-48	FL 1948-65 w/blue teflon
<b>79966</b>	17034-48-X	FL 1948-65 w/fire ring



## James Motor Gasket Kits

PCP	OEM	Description
<b>79915</b>	17028-36	61 & 74 1936-47 w/blue teflon
<b>79916</b>	17028-48	FL 74" 1948-65 w/blue teflon



## Copper Gaskets

PCP	Application
<b>25287</b>	Head gasket EL 1936-48 (16770-36C) (pair)
<b>25288</b>	Head gasket Pan 1948-65 (16770-48C) (pair)





### Jims Ironhead Sportster Rocker Shaft

Available in +.005" for worn out rocker boxes. Std. O.D. on big end is .937", smaller end is .434". Oversize is +.005 at the two diameters that are held by rocker boxes. Oversize O.D. on big end is .942, small end is .439.

**PCP Description**

**31101** Use on XL 1957-85 (17435-57B)

**31196** Oversize +.005" (17435-57B5)



### Sifton Rocker Arm and Shaft Kit

Kit fits 1957-84 XL Iron Head models and includes 4 rocker arms with bushings installed, 4 shafts, shims, spacers, chrome replica end caps and nuts.

**30070**



### Jims Rocker Arm Bushing (Must be Reamed)

**31100** Stock replacement XL 1957-on (17428-57) (8 pack)



### Colony Rocker Box Bolt Kit

Stock style hex head bolts and washers fit all XL 1957-85.

**PCP Application**

**9829** 1957-76 chrome

**9830** 1957-76 cad

**9831** 1977-85 chrome

**9832** 1977-85 cad

### Rocker Arm Bushing

•Machined from bearing bronze bar stock  
•Sportster 1957-83

PCP	Application	UM
<b>32233</b>	O.D. 0.6795"	8 pk



### Head Bolt Covers

Fit over 12 point head bolts on 1973-85 XL Sportster and include 8 covers.

PCP	Finish	Style	Model	Year
<b>9111</b>	Gold	Acorn	XLH	1973-85
<b>9112</b>	Chrome	Cap	XLH	1973-85
<b>9113</b>	Gold	Cap	XLH	1973-85



### Sportster Head Bolt Kits

Cad	Chrome	Application	Style
<b>8945</b>	<b>8944</b>	1957-72	Hex
<b>9212</b>	<b>9211</b>	1973-85	12 Point (4709)

### Head Bolt Washer Kits

**5200** **8488** All HD with 7/16" bolts



### Colony Cylinder Head Bolt Kit for Sportsters

PCP	Application	Style
<b>1725</b>	1957-E73	Acorn
<b>2859</b>	1957-72	Cap
<b>1744</b>	1973-85	Acorn



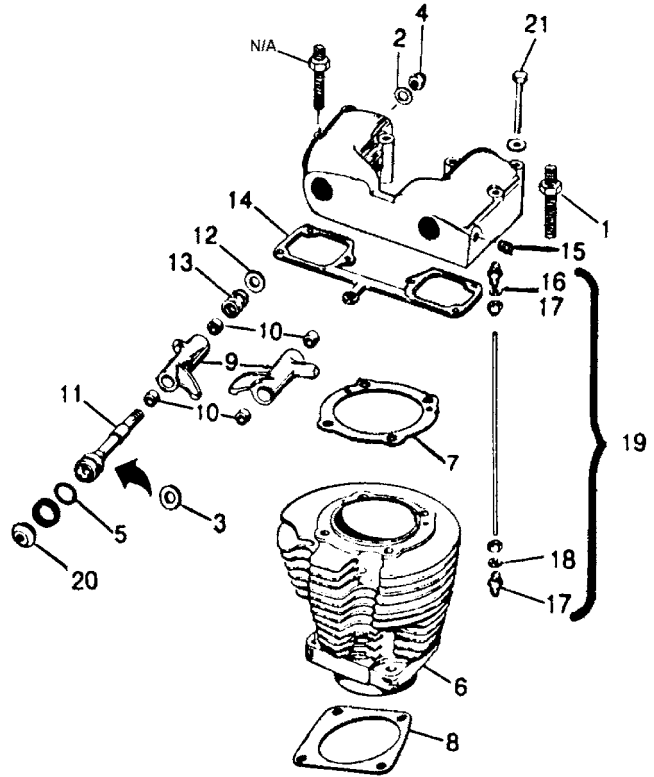
### 12 Point Head Bolt Kits

Chrome plated with special flat washers for XL 1973-85.

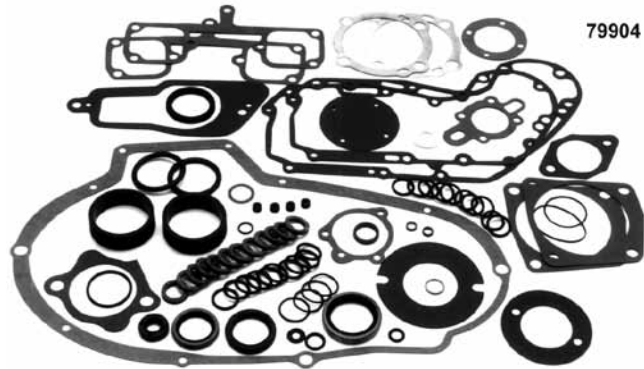
PCP	Finish
<b>9211</b>	Chrome (4709)
<b>9212</b>	Cad finish

# XL Top End 1957-85

	PCP	OEM	Description	Year	U/M
1	N/A	3412	Stud	79-85	Each
2	12000	6466W	Washer	57-85	10 Pk
3	13559	6767	Rocker shim .007	57-85	10 Pk
	13560	--	Rocker shim .015	57-85	10 Pk
4	12511	7872	Red end cap	57-85	4 Pk
	5319	7875	Acorn nut, chrome	57-85	4 Pk
5	14501	11101	'O' Ring, rocker	57-85	10 Pk
6	3035	16464-73C	Front cylinder 1000	73-85	Each
	3038	16465-73C	Rear cylinder 1000	73-85	Each
7	79204	16769-57	Head gasket	57-71	10pk
	79205	16769-72A	Head gasket, copper	72-E73	10 Pk
	79206	16769-73	Head gasket	73-85	10 Pk
		16769-82	.016 copper		
8	79221	16774-57	Base gasket	57-71	10 Pk
	25020	16774-72	Base gasket	72-85	10 Pk
9	2013	17394-57A	Front exhaust arm	57-85	Each
	2014	17395-57A	Rear exhaust arm	57-85	Each
	2015	17396-57A	Front intake arm	57-85	Each
	2016	17397-57A	Rear intake arm	57-85	Each
10	18503	17428-57	Bushing, rocker	57-85	4 Pk
11	1364	17435-57B	Rocker shaft	57-85	Each
12	11531	17451-57	Spacer (4)	57-85	10 Pk
13	13100	17483-57	Spring	57-85	10 Pk
14	79259	17536-70	Gasket rocker	57-85	10 Pk
15	10545	45830-48	Plug	57-85	5 Pk
16	10561	62484-81	Fitting, oil line	81-85	Each
17	N/A	63526-57	Fitting, oil line	57-85	5 Pk
18	14073	63529-57	Seals	57-85	10 Pk
	14402		As, above red silicone		10 Pk
19	1355	-	Oil line kit	57-85	Kit



30221



79904

## XL Rocker Box Sets 1957-85

Rocker boxes are available bare or assembled with arms and shafts. These rocker boxes are manufactured using gravity casting which uses the force of gravity instead of high pressure to fill the mold. As a result minor imperfections may show in chrome finishing.

PCP	Type	Finish
30220	Bare	Chrome
30221	Bare	Polished
30222	Assembled	Chrome
30223	Assembled	Polished



25289

## Copper Gaskets

PCP	Application
25289	.022 Head gasket XL L1973-85 (16769-73) (pair)

## James Motor Gasket Kits (Iron Head)

PCP	OEM	Description
79902	17026-71	XL 900cc 1957-71 w/teflon
79904	17026-73	XL 1000cc L1973-85 w/.032 copper

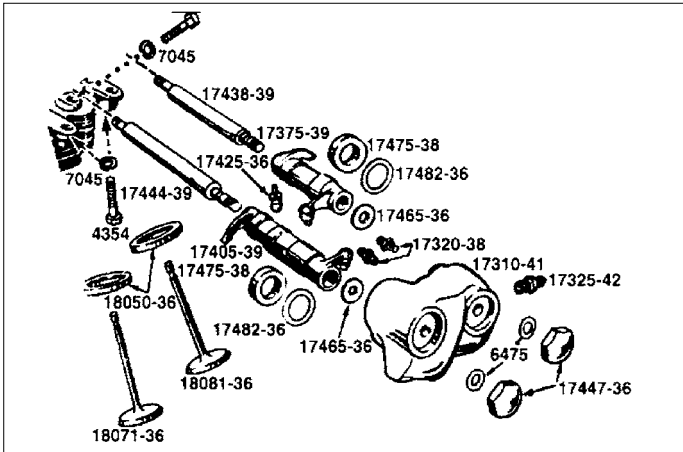


79988

## James Top End Gasket Kits (Iron Head)

PCP	OEM	Description
79950	17030-57	XL 900cc 1957-71 w/teflon
79988	17030-72-A	XL 1000cc 1973-85

# Knuckle Parts



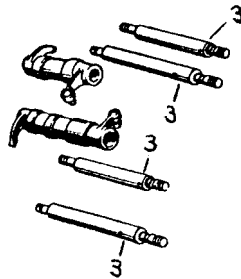
## Knuckle Top End Parts

Chrome nuts are sold in a set of 4. Thrustwasher sets include 4 packing washers (17482-36) and 4 thrustwashers (17465-36).

PCP	OEM	Description
12008	6182	Washer
12007	6475	Brass nut washer (6475)
19321	17300-36	Rocker box set, natural finish
	17310-41	
1797	17320-38	Drain tube fitting
8941	17325-42	Oil feed fitting
5113	17465-36	Thrustwasher and seal washer set
	17482-36	
14025	17475-38	Oil seal (4 pk)
79087		James, as above (5 pk)
19199	18050-36	Valve seat
19475	18600-36	Tappet block set
	18610-36	
9622	2329	Tappet block screw, parkerized, (set)
8103	2329	Tappet block screw, cad, (set)
2158	2329	Tappet block screw, chrome, (set)
1692		Chrome nuts without o-rings
19476	17425-36	Rocker arm ball stud

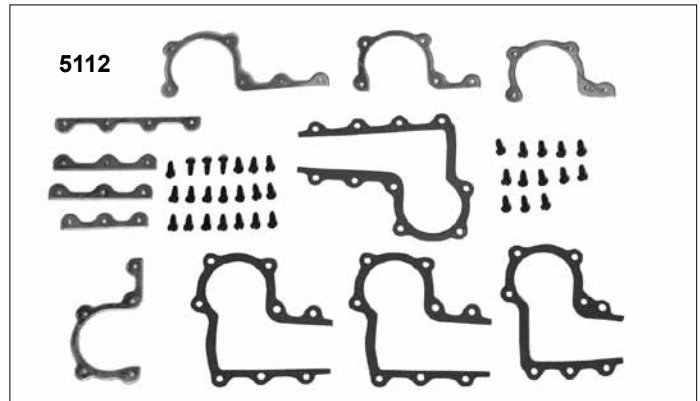
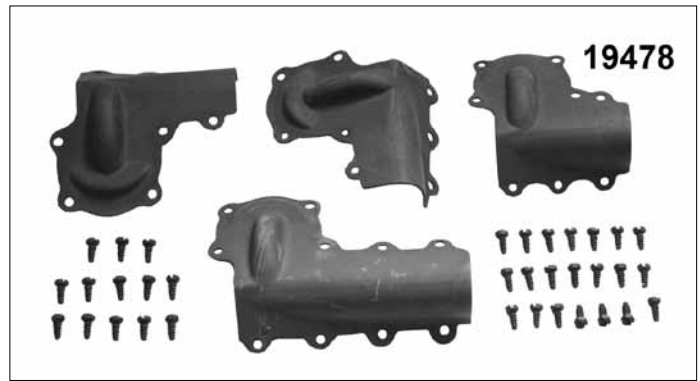
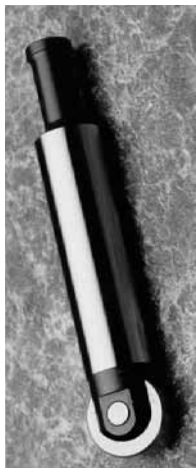
## Knucklehead Rocker Arm Shafts

1939-47 (17435-39, 17438-39, 17441-39, 17444-39)  
 2676 Set of 4



## 1936-47 Knucklehead Cam Followers

Eastern	Size	Type
1078	STD	Intake (18491-36)
1079	.005	Intake
1080	STD	Exhaust (18493-36)
1081	.005	Exhaust, Eastern
Jims Machining		
31607	STD	Intake, Jims big axle
31110	STD	Intake, Jims std
31608	.005	Intake, Jims big axle
31111	.005	Intake, Jims pin
31605	STD	Exhaust Jims big axle
31116	STD	Exhaust, Jims pin
31606	.005	Exhaust, Jims big axle
31117	.005	Exhaust, Jims pin



## Knucklehead Rocker Parts

PCP	Description
19477	Chrome replica rocker cover set
19478	Parkerized rocker cover set
5112	Zinc rocker cover strip and gasket set
19479	Parkerized rocker cover strip and gasket set
19359	Chrome cover strip and gasket kit
24555	Parkerized rocker cover screws (3477) (34 pk)



## OHV Knuckle Head Bolts and Washers 1936-47

PCP	Finish
2118	Cad
5212	Chrome
9725	Parkerized
1940-47 Knucklehead with washers	
2119	Cad
9726	Parkerized
Washers only 1936-47 OHV	
2009	Cad
2008	Chrome
2010	Parkerized



# Knuckle Parts



## Rocker Box Mounting Kit

Stock replacement hex head bolts machined from solid bar as original in choice of cad or chrome plating. Fits Knucklehead 1936-47.

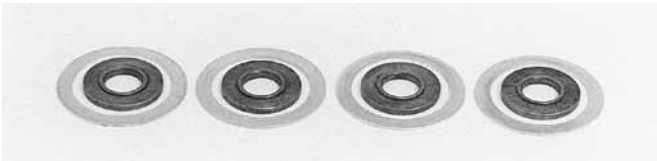
- 5369** Chrome Plated
- 5370** Cad Plated
- 9699** Parkerized



## Rocker Box and Cam Cover Oil Feed Line Fitting Kit

Duplicate of oil feed line fittings used on Knucklehead 1942-47. Replaces OEM 17330-42 and 17325-42.

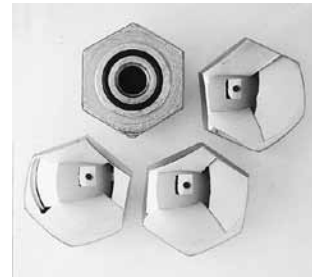
- | PCP         | Description    |
|-------------|----------------|
| <b>1741</b> | Chrome (shown) |
| <b>8941</b> | Cad            |



## Knucklehead Rocker Arm Thrust Washer

Precision-machined, heat-treated replacements for Knucklehead 1936-47.

- 5113** Replaces OEM 17465-36



## Knuckle Nut Set

Duplicate of original part except the addition of a positive O-ring seal to prevent oil leakage. Contains 4 nuts and 4 seals. Fits all Knucklehead engines 1936-47.

- 1692**



## Rocker Shaft End Nut Kit

OEM 7831 nuts and lockwashers fit Knucklehead 1936-47.

- | PCP         | Description |
|-------------|-------------|
| <b>9840</b> | Chrome      |
| <b>9841</b> | Cad         |
| <b>9842</b> | Parkerized  |



## Knucklehead Rocker Box Drain Tube Fittings

Fits all Knucklehead motors 1938-47.

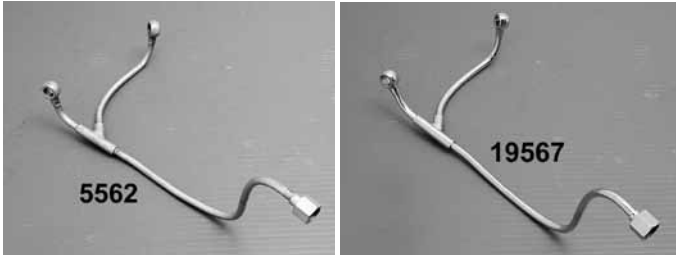
- 1797** Set of 4

## Kibblewhite Black Diamond Valves

Knucklehead 1936-47						
PCP	Type	Head Diam.	Stem Diam.	Tulip	OL	Remarks
<b>32040</b>	IN	1.750"/44.45mm	0.3765"	23°	3.590"	Standard (18071-36)
<b>32041</b>	IN	1.940"/49.28mm	0.3765"	23°	3.590"	Oversize
<b>32042</b>	EX	1.750"/44.45mm	0.3760"	27°	3.670"	Standard (18081-36)



# Knuckle Parts



## Top Oiler Knucklehead 1936-47

1936-41 is banjo type. 1942-47 is flared nut type

PCP	Year	Item	Finish
5562	1936-41	Banjo line	Cad (3573-36)
19567	1936-41	Banjo line	Chrome (3573-36)
19438	1936-41	Banjo bolt	Cad (63578-36) (ea)
9848	1936-41	Banjo nipple kit (banjo bolt & washer)	Cad
9847	1936-41	As above	Chrome
14007	1936-41	Washer for above	(6440) brass (5 Pk)
21009*	1942-47	Oil line	Chrome (63480-42)
3843*	1942-47	Oil line	Cad (63480-42)
8941	1941-47	Line fittings	Cad (17330-42, 17325-42) (3 pk)
1741	1941-47	As above	Chrome
5297	1936-41	Line fitting for timing cover	Cad (33615-36)
9701	1936-41	As above	Parkerized

\*Note: Nut type ends



## Knucklehead Top Motor Mount Kit

Fits 1936-47, 61 & 74 Model OHV

19053	Black (1938-47)
19055	Chrome (1938-47)
19330	Black (1936-37)



## Kibblewhite OEM Replacement Valve Spring Kit

Manufactured to exact OEM specifications.

### Knucklehead 1936-47

PCP	Lift	Seat Pressure		Retainers
32039	.415"	125-135 lb.	265-275 lb. @ .415"	Steel



## Banjo Style Oil Feed Line

### Fitting Kit

OEM 3572-36B banjo bolt, 95-36 threaded bushings, 3615-36 cam cover fitting and 3572-36C brass washers fit Knucklehead 1936-41.

PCP	Description
9847	Chrome
9848	Cad

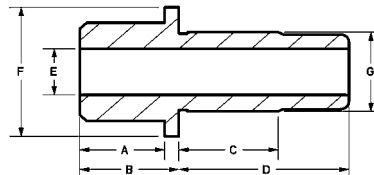


## Rocker Feed Line Nipple

Fits feed oil line 1936-41 OHV, vent line 1937-64 45's. (33615-36)

5297	Cad
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## Kibblewhite Valve Guides



Intake/Exhaust Std. 0.6440"			
A	0.600"	D	1.200"
B	0.700"	E	1.050"
C	0.700"	F	0.3755"

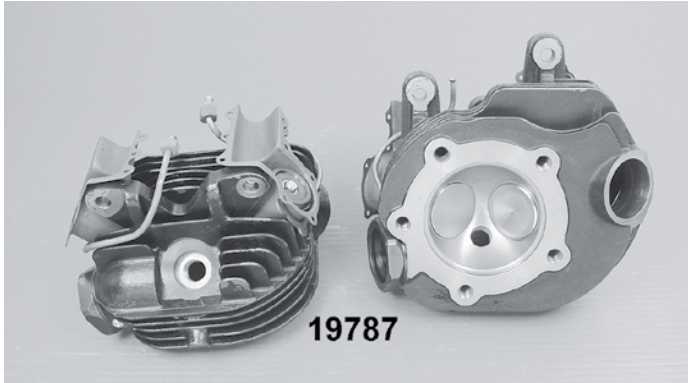


## Kibblewhite Cast Iron Valve Guides

For 74" 1936-47 Knucklehead engines. Sold each.

Size	Intake/Exhaust
Std.	32043
+0.002"	32044
+0.004"	32045
+0.006"	32046
+0.008"	32047
+0.025"	32048

# Knuckle Parts

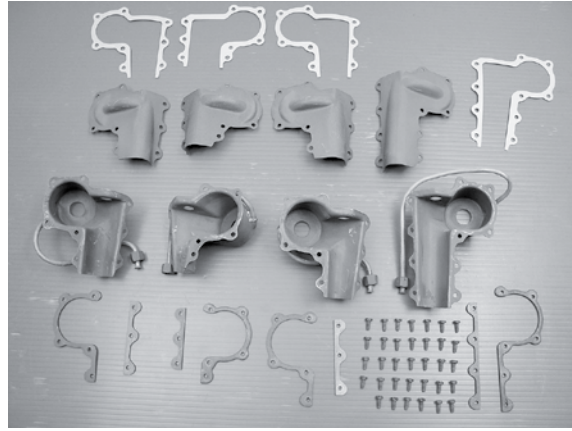


## Replica Knucklehead Head Set 1937-47

Feature original cast iron with black finish. Head sets include valves, springs, collars, guides with parkerized upper and lower valve cover sets installed.

### PCP Type of Head Set

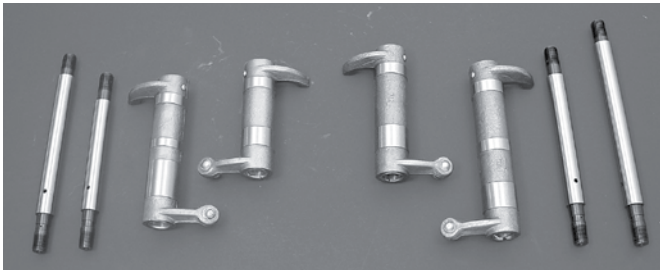
- 19787** With valves
- 19788** With rocker assembly
- 19789** With rocker assembly and chrome covers



## Knucklehead Lower Valve Spring Cups 39-47

Parkerized set includes 4 piece lower cover set with oil lines and nuts attached. Also includes rocker cover strip set with parkerized screws and chrome or parkerized cover set with gaskets.

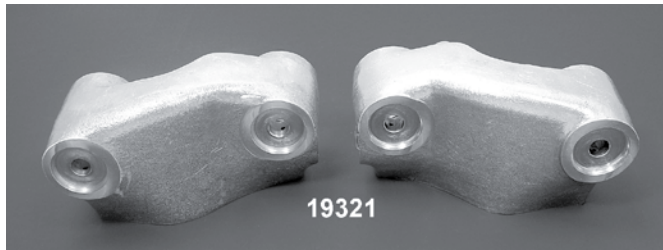
- 19517** Kit with parkerized covers
- 19518** Kit with chrome covers



## Knucklehead Rocker Arm and Shaft Kit

Includes 4 forged steel rocker arms with ball studs installed and 4 matching shafts.

**19791**



## Knucklehead Rocker Box Set 1938-47

### PCP Finish

- 19321** Natural
- 19790** Polished

### Rocker Mounting Bolt and Washer Kit 1936-47

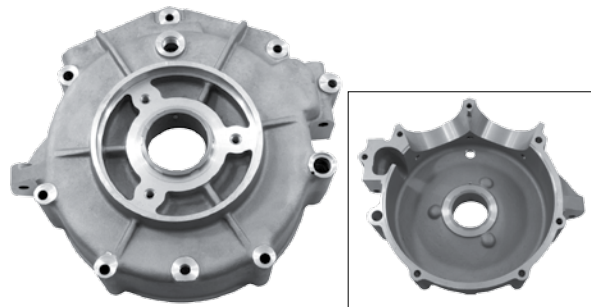
- 5369** Chrome
- 5370** Cad
- 9699** Parkerized



## Knucklehead Engine Case Set

- Top end oil returns through pushrod tubes, not cylinder base
- Accepts loose roller bearings for the sprocket shaft side
- Features blank number boss, there is no serial # on the case
- Sold with invoice, MSO available upon request
- USA Made

PCP	Fitment
<b>58057</b>	1941-47 FL, 1937-47 EL



## Knucklehead Left Side Engine Case

- Not a direct bolt on part
- Features cast-in steel bearing insert
- Left hand case is machined to fit stock right side case
- Order cylinder base studs, case race, timing plug, & drain plug separately
- Cylinder deck height & motor mount surface must be fit and machined to match the right case
- Features blank number boss, there is no serial # on the case
- USA Made

PCP	Item
<b>21968</b>	1941-47 FL Left case