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# Motor Shop Cylinder Finishing



Power Stroke Hone



Kwik-way Boring Bar



## Shop Services Procedure:

- Call for Return Goods Authorization (RGA)#
- Obtain RGA # and return to

## Motor Shop Procedure

9 Scobie Drive

Newburgh, New York 12550

- Finished work order will be returned by UPS

**Cylinder Boring Service.** The V-Twin Motor Shop will bore and hone customers cylinder and fit to next oversize required pistons. Boring will done on a Kwik-way Boring Bar and honing will be done on a vertical Winona Van Norman Powerstroke Hone for a precision fit. Choose any brand of piston from our catalog section and note VT Part Number on Work Order/ Authorization Form. Work will be performed on sets of cylinders only. Pack cylinders with care as we are not responsible for broken fins in shipping.

**VT No. 60-0167**



**Motor Shop Services Cylinder Sleevling.** Send in your worn out original cylinder and Motor Shop Services will bore and fit new LA sleeves liner. Cylinder will then be finished honed to V-Twin standard piston size. Work Order Authorization Number required before sending in. Pack carefully as we are not responsible for broken fins. Service is done per cylinder. Sleeves are also available separately.

Service	VT No	Bore	Application
	<b>Sleeve Only</b>		
60-0124	11-1175	2.745	45" Side Valve
60-0124	11-1176	3.312	61" Knucklehead
60-0124	11-1177	3.422	80" Side Valve
60-0124	11-1178	3.437	74" Overhead Valve
60-0124	11-1179	88.8 mm	80" Overhead Valve
60-0124	11-1180	3.00	900 cc Sportster
60-0124	11-1181	3.188	1000 cc Sportster



## Motor Shop Ready Long Block or Short Remanufacturing Service.

Ship in your assembled long block or short block and we will disassemble and glass bead base, remanufacture fly-wheels, inspect oil pump and reassemble with new bearings, washers, races and internal hardware. Early lower ends (1936-69) will be fitted with new case races and line honed for proper fit. Long block remanufacturing service will include short block service plus the addition of a cylinder boring, new piston, valve job and assembly with new hardware. Call shop service for RA# prior to return.



Short Block Remanufacturing 60-0176 60-0177

Long Block Remanufacturing 60-0178 60-0179

Year 1936-57 1958-99



#### FLYWHEEL REBUILDING SERVICE.

We will install new shafts, crank pin, rollers, cages and wrist pin bushings for years listed. Ship your rebuildable matched right and left Flywheels with connecting rods and we will return the Flywheel C.O.D. and notify you if any extra charges are incurred during the rebuilding. Tedd Cycle, Inc. original service since 1969 with a turn around time of 15 working days.

**V-Twin Motor Shop Twin Cam Flywheel Remanufacturing Services**  
**Flywheel** that are out of round or scissored can be repaired. The new flywheels on the 1999-up Big Twin are pressed together, but no match for our V-Twin Motor Shop. We will press apart and disassemble this style wheel assembly, inspect shafts, and crank pin components. V-Twin Motor Shop will rebuild your Twin Cam flywheel assembly to OEM specification using new bearings, crank pin and solid plugs, then balance and true. We can also weld the pin and plugs, if requested, at the flywheel and crank pin interface, for rigid power. We stock the bearings, cages and oversize crank pins to provide you with the components at hand when your flywheel arrives. We will hone the rods to allow the oversize pin to be fitted as required. Flywheel set will be trued and balanced. The final assembly and press is complete in our dedicated TC-88 flywheel fixture assembly.

We install new hardened crank pin and bearing set into the rebuildable rods. If required, new connecting rods can be installed with customer's authorization. We balance the wheels for the new parts and stock piston weight. We press the flywheel halved back together and true the bearing journals to .001" or less. Truing the bearing journal eliminates engine vibration at cruise speeds.

V-Twin Motor Shop can also install solid crank pin expansion plugs and then tig weld the pin and plugs so flywheels won't flex or scissor. This extra step can help prevent future problems. The rebuilt flywheel is stronger than stock OEM.

For a smoother running engine, high speed balancing is done on a Sunnen Dynamic Balancer. This service will require customer's piston or purchase of new piston kits from V-Twin.

We also offer several other machine shop services. V-Twin Motor Shop can also weld and repair all types of metal and aluminum parts like crank cases, cylinders and heads.

Our newly developed TC-88 Flywheel program allow Twin Cam model flywheels professionally rebuilt in V-Twin Motor Shop.

To Request a work order RA number, or for any questions call:  
1-800-833-8946 ext. 6

#### VT No. Service

- 60-0249** Twin Cam Remanufacturing Service
- 60-0248** TC Remanufacturing with New Connecting Rod Set
- 60-0247** Crank Pin/Plug Welding Service
- 60-0123** High Speed Balancing with a flywheel remanufacturing service



**Connecting Rod Set** includes crank pin, two solid caps, and bearings. The upper bushing is installed. Wrist pin bushings installed fits for twin cam Big Twin models. Set is crafted with high precision.

**VT No. 10-1607**

## Flywheel Rebuilding



**Motor Shop Flywheel Rebuilding Service.** We will install new shafts, crank pin, rollers, cages and wrist pin bushings for years listed. Service includes flywheel truing. Dynamic balancing is also available for any flywheel remanufacturing service for an smoother running engine.



VT No.	Item
<b>10-0115</b>	1929-73 45"
<b>10-1110</b>	1930-36 VL
<b>10-0114</b>	1936-48 74" and 80" Side Valve
<b>10-0122</b>	1970-72 Shovelhead
<b>10-0123</b>	1973-84 Shovelhead
<b>10-1104</b>	1987-89 Evolution, 1340, 1985-86 Shovelhead
<b>10-1102</b>	1990-99 Evolution, 1340, 1985-86 Shovelhead
<b>10-0124</b>	1957-76 XL, XLH
<b>10-1100</b>	1977-80 XL
<b>10-1101</b>	1981-86 XL
<b>10-1103</b>	1987-99 XL
<b>10-1120</b>	2000-up XL
<b>10-1111</b>	1936-39 Knucklehead 61"
<b>10-0116</b>	1940-47 Knucklehead 61"
<b>10-1109</b>	1941-47 Knucklehead 74"
<b>10-0117</b>	1948-53 Panhead 74"
<b>10-0118</b>	1954-55 Panhead 74"
<b>10-0119</b>	1956-57 Panhead 74"
<b>10-0120</b>	1958-64 Panhead 74"
<b>10-0121</b>	1965-69 Pan and Early Shovelhead
<b>60-0123*</b>	Dynamic Balancing for the Above

**\*Note:** Requires purchase of a V-Twin Piston Kit



#### Flywheel Assembly Installation.

This service includes pressing flywheel shaft into left side bearing and setting up required crankshaft end play. Parts extra as required.

**VT No. 60-0173**

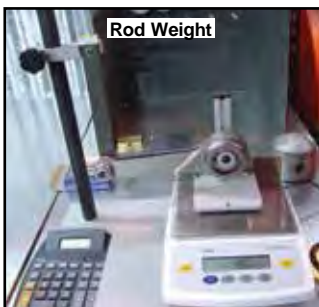




# Flywheel Balancing



Rod Weight



Rod Weight



Bob Weight



60-0169



Ring and Pin Weight



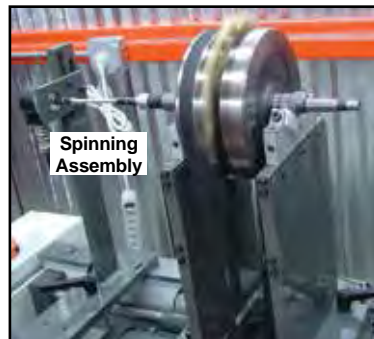
Piston Weight



Flywheel with Bob Weight



Weight Removal



Spinning Assembly



Balancing Machine



41-0991 41-0992 41-0993 41-0994 41-0995 41-0996

**Motor Shop Oil.** All are sold in case of six in quart size bottles.

VT No.	Type	Weight
41-0991	SynGold	20w50w
41-0992	Heavy Duty	60w
41-0993	Synthetic Gear Lube	Transmission/Primary
41-0994	Synthetic Clean	20w50w
41-0995	Heavy Duty	20w50w
41-0996	Heavy Duty/Synthetic	50w

**Motor Shop Ready Transmission/Primary Formulated Lube** is a synthetic blend lube to provide excellent lubricity for the anti-wear requires of transmission gears and primary components. Adds protection between moving parts and out performs conventional oils. Use in all Big Twin transmissions and primary chain case 1984-up Sportster transmission and primary case 1971-up.

VT No. 41-0993

**Dynamic Flywheel Balancing.** We use the latest in Sunnen Technology to balance flywheels and rods with appropriate piston.

**VT No. Service**

**60-0169** True/Balance

**60-0173** Case Installing 1958-up

**60-0180** Case Installing 1936-57

**Motor Shop Ready Oil** is available in heavy duty, synthetic blend and full synthetic weights.

**Heavy Duty Oil** is designed and licensed to meet API service category SN specification. Meets SAE specifications and warranty requirements for gasoline engines.

**SynClean Synthetic Blend** type extends engine life significantly reduces engine wear, resists thermal breakdown and out performs conventional oils in engine cleanliness, fuel economy and protection between moving parts.

**SynGold Full Synthetic Oil** is uniquely designed to help provide outstanding levels of fuel economy performance, cleaning power and engine protection even during longer oil change intervals. **SynGold** is proven to significantly reduce wear and viscosity breakdown because of its advancements in oil technology.

All are sold in case of six. Our quart bottles designed for easy pouring and storage.

**The V-Twin Motor Shop has the components in stock, at the Motor Shop, No Excuses for Parts Availability!**

**We have the machines, machinists and components to facilitate your rebuild!**  
1262



# Case Boring

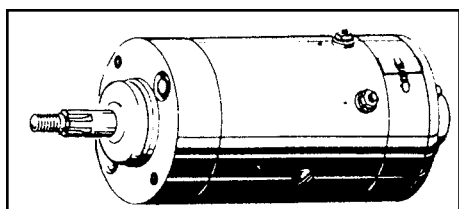


## Precision Case Boring Service.

- V-Twin Motor Shop will use a vertical mill to enlarge the cylinder hole or head chamber to accept Big Bore Spigot barrels.
- Ship cases to V-Twin with a turn around time of 15 days.

VT No.	Type
60-0165	Case
60-0171	Heads

## Generator Rebuilding Service



**Motor Shop Services.** We now offer generator rebuilding service for original H-D generators. Send us your old, tired, worn out generator and we will completely rebuild with new field coils, armature, brushes, seals, gear and corresponding regulator. All units are tested for correct output. Specify regulator type desires.

### VT No. Item

- 60-0200 12 Volt 2 Brush for 1965-up Generator  
 60-0202 6 Volt 2 Brush for 1958-64 Generator  
 60-0203 6 Volt 3 Brush for 1930-57 Generator  
 60-0204 Convert 3 Brush 6 Volt to 2 Brush 12 Volt  
 60-0205 6 Volt 2 Brush for Cooled Generator 1958-64



## Brake Drum Sprocket Replacement Service

for 1930-72 Big Twins, 1952-78 Sportster and 1935-52 45" Solo models. Send in your old brake drum and we will install new sprocket, splash or dust ring correctly with hot riveting as original. All drums inspected for suitability and customer notified if not serviceable. Work order number required before sending in. Contact Motor Shop Service Department prior to shipping your drum in.

VT No. 60-0259



VT No.  
60-0188



VT No.  
60-0148

VT No. Carb  
60-0195 M88,  
M51L, M41, M51  
and M74  
60-0345 M88,  
M51L, M41, M51  
and M74

Linkert  
M74

**Linkert Rebuild Service.** Parts billed separately as required.

## Alternator Sealing Ring Service



Alternator Repair Ring Only.  
VT No. 16-0692



**Motor Shop Alternator Sealing Ring Replacement Service.** Ship in 1970-up left hand case with damaged O-Ring lip and we will machine out and replace with new steel sealing ring.

VT No. 60-0164

**Big Twin Alternator Rotor Puller** uses the two threaded holes in rotor to allow removal of rotor.

VT No. 16-0693



**Big Twin Alternator Rotor Puller** uses the sprocket shaft end to center and the two threaded holes in rotor to allow removal of rotor.

VT No. 16-1054



# Head Service

**Motor Shop Ready!**  
Ship Heads to V-Twin with turn around time of 15 working days. We will return by UPS!



**Spark Plug Hole Service.**  
Motor Shop will HeliCoil spark plug hole on head set that utilize 14 mm spark plugs. 15 day turn around time. Chose HeliCoil only or Weld-Up and HeliCoil.

<b>VT No.</b>	<b>Type</b>
60-0168	HeliCoil
60-0170	Weld/HeliCoil



Service Performed on Sunnen VGS20



**Head Resurfacing Service** is performed on a Winona machine for accuracy and surface flatness .

**VT No. 60-0172**

## Shop Services Procedure:

- Call for Return Goods Authorization (RGA)#
- Obtain RGA # and return to  
**Motor Shop Service**  
9 Scobie Drive  
Newburgh, New York 12550
- Finished work order will be returned by UPS



**Motor Shop Ready Head Remanufacturing Service.** Available as a valve job only or as a valve seat/valve job remanufacturing service. We will glass bead heads, install new cast iron guides, nitrated coated valves, spring, collars and keepers for both services. For valve seat

service all of the above will be done with the addition of installing new no-lead valve seats. Heads must be in rebuildable condition and will be done in sets only. Service will be performed on a Sunnen Valve Machine that will insure correct valve stem to seat alignment.

For stock lift cams.

Valve Job Service	Valve Seat/Job Service	Item
11-9049	11-9050	1948-65 Panheads
11-9048	11-9051	1966-80 Shovelheads
11-9047	11-9052	1981-84 Shovelheads
11-9046	11-9055	1986-up Evolution Big Twin
11-9045	11-9053	1957-69 Sportster
11-9044	11-9057	1970-82 Sportster
11-9043	11-9054	1983-85 Sportster
11-9042	11-9056	1986-up Sportster

## Cam Bushing



**Motor Shop Cam Bushing Service** will replace bushings in Big Twin cam cover for 1936-up models.

**VT No. 60-0133**



**Motor Shop Cam Cover Bushing Service** will install new bushings in right side case and cam cover for 1957-up XL models.

**VT No. 60-0131**





## Breather Valve Service



**Motor Shop Ready Breather Valve Machining Service** can be performed on any 1936-99 Big Twin right hand case. Breather hole will be honed out and fitted with a +.030 steel breather valve. If Breather Hole will not clean up with oversize machining process we also offer sleeving service requires boring of breather hole and then fitting with sleeve. We will then final hone and fit with standard size breather valve. Ship in your right hand case and we will return to you by UPS with a turn around time of 15 working days.

O/S Service	Sleeving Service	Fits
60-0156	60-0159	1936-47
60-0157	60-0160	1948-77
60-0158	60-0161	1978-99

## Fork Bushing Service



**Fork Leg Bushing Service.** We will remove old bushings, install and size new bushings to standard inner diameter for new fork tubes. Service includes new bushings and labor.

VT No.	Years	Model
60-0150	1949-76	FL, FLH
60-0155	1984-up	FXST-FLT

### FX Models

60-0151	1952-72	FX
60-0152	1984-87	FX
60-0153	1988-up	FX

### XL Models

60-0151	1952-72	XL
60-0152	1984-87	XL
60-0153	1988-up	XL

**Leg Assembly Service.** We install internals and lower leg on to fork tubes. **VT No. 60-0166**



**Early Spring Fork Rebuilds.** Send us your early springer fork (pre1958) any model and we will rebuild completely. Includes new bushings, studs, bearings, locks and washers. Rockers and powder coating available at additional cost spring inspection assessment done replaceable at additional cost.

### VT No. Item

60-0190	Complete Spring Fork Rebuild
60-0191	As Above with New Rockers
60-0192	As Above with Powder Coating (Black Only) Strip/Phosphorize/Coat
60-0193	As Above with Powder Coating and New Rockers

## Wheel Truing



### Since 1969! Wheel Building Service

Select any of our hubs, a set of spokes including stainless steel, chrome, twirled or diamond spokes and rim. We will lace and true in our plant. The finished wheel can be shipped in 24 hours. Complete wheel will be billed as follows: Rim, spokes, hub and labor. Service limited to components in stock.

**VT No. 60-0125**

## Exhaust Port



**Exhaust Port Replacement Service.** Available for both Pan and Shovelhead applications. Ship in old disassembled cylinder heads and the broken or stripped exhaust ports will be replaced with new factory style exhaust ports. Service includes ports as shown.

### VT No. Replacement Service

60-0162	Panhead
60-0163	Shovelhead

## Transmission Remanufacturing



**Motor Shop Ready Big Twin Transmission Remanufacturing Service.** Ship in your fully assembled transmission and we will disassemble and glass bead case, replace mainshaft, countershaft, thrustwashers, bearings and reassemble with new hardware. All gears will be reused unless they are damaged and then customer will be advised of added cost early transmission (1936-76) will be fitted with new main drive race and sized for correct roller. Call shop service for RA# prior to return.

### VT No. Year Type

60-0174	1936-76	4-Speed Big Twin
60-0175	1977-84	4-Speed Big Twin
60-0183	1986-99	5-Speed Big Twin
60-0260	1929-73	3-Speed 45"

### 5 To 6 Speed Conversions

**1994-2005.** Ship in your 5 Speed Transmission and we will glass bead and install a complete 6 speed conversion kit. This service will be performed in house by our highly experienced machinist. Transmission will be shipped back to you fully assembly and tested ready to "bolt in." All you do is add oil. **VT No. 60-0184**





# Display Center Stands



16-1111



16-1600 Installed



16-1600



16-1109



16-1110



16-1116



16-1521



16-1521 Installed

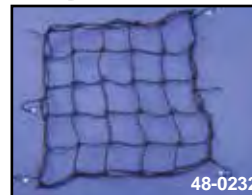


16-1522

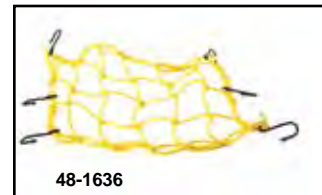


16-1511

## Bungee Cord & Security



48-0232



48-1636

**Helmet Net** secures the helmet to the seat with elastic tension.

**VT No. Item Color**

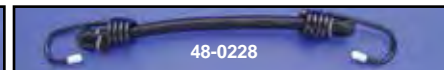
**48-0232** 20" x 20" Black

**48-0339** 15" x 15" Black

**48-1636** 15" x 15" Yellow



37-8982



48-0228

**Bungee Cords** are black elastic sold in 10 packs.

**VT No. Item**

**48-0228** 12" Single

**37-8982** Bungee Nut  $\frac{3}{8}$  x 24 mounts to stock studs

**37-8983** Bungee Nut  $\frac{3}{8}$  x 16 mounts to stock studs



**Disc Brake Rotor Lock** acts as dead bolt through rotor.

**VT No. 48-0703**



**Chrome Helmet Lock** clamps to  $\frac{7}{8}$ " through  $1\frac{1}{4}$ " diameter tubing, secures helmet. **VT No. 48-1732**

**Adjustable Display Center Stands** show your bikes. Single lever on left side allows bikes to be lifted up on stand. Very little effort required. Entire assembly fits neatly under frame rails. 2 bolt installation. **Caution:** Not intended for use as a ride off stand.

**Note:** 16-1600 is non-adjustable.

VT No.	Year	Model	Finish
16-1111	1965-84	FLH	Chrome
16-1600	1980-08	Touring	Black
16-1109	1989-08	Touring	Black/Chrome
16-1110	2009-up	Touring	Chrome
16-1116	2009-up	Touring	Black
16-1521	1992-07	Softail	Chrome
16-1522	2008-up	Softail	Chrome
16-1511	1970-79	FLH	Chrome



**DOWCO INC.**

## Covers

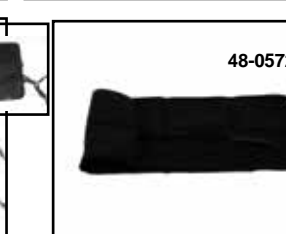
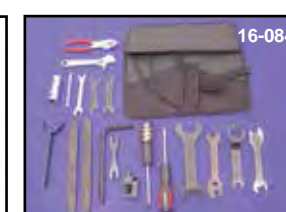
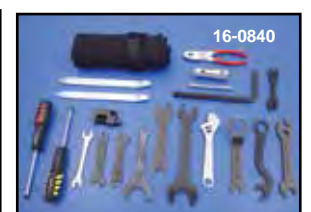
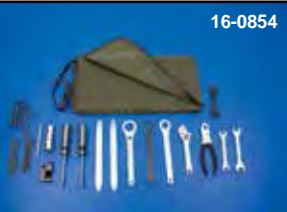
**Guardian Custom Bike Cover** by Dowco. Available for custom bikes with wheel bases up to 72". This cover features soft cotton fabric interior lining to protect painted and chrome surfaces, shock cord hem along the bottom for easy installation, reinforced grommets for use with cable lock to help prevent theft and breathable material that lets damaging moisture escape. **VT No. 48-1228**





# Tool Kit

**V-Twin Rider Tool Kits.** Complete kits, supplied as appropriate for each year and model; includes tool roll. Entire kit fits individual kidney shaped tool box!



## Tool Kits

VT No.	Fits
16-0849	1957-70 XL
16-0846	1977-84 XL
16-0746	1986-up XL, TC-88 ST
16-0850	1979-84 FLT
16-0857	1985-up FLT
16-0854	1985-88 FXST, 1986-88 FLST
16-0856	1989-up FXST, 1989-up FLST
16-1007	1989-up Softail Tool Kit
16-0011	1999-13 FLT
16-0098	2014-up FLST

## Early Tool Kits.

16-0843	1936-57 61 and 74 OHV
16-0844	1958-72 OHV
16-0840	1929-73 45" and Solo
16-0841	1930-40 SV-VL-ULH
16-0842	1941-48 SV-VL-ULH
16-1270	Universal

## Tool Rolls and Pouches

48-0570	Nylon	Pouch
48-0571	Nylon	Roll
48-0572	Canvas	Roll



**13 in 1 Folding Tool.**  
VT No. 16-0078

# Tool Pouch & Roll



## Replica FLH Windshield Bag.

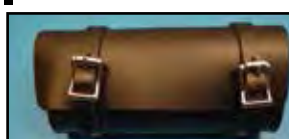
Gold Trim	Silver Trim	Color
48-0582	48-0812	White
48-0583	48-0813	Black



**Double Strap Tool Roll** with duo strap. Heavy leather roll, measures 10" x 4 1/2" x 3" tall.  
VT No. 48-3112



**Soft Leather Tool Roll** features fully padded inside zipper and velcro secured flap. Includes two heavy leather mount straps with roller buckles. The tool roll measures 11 1/2" L x 4" W x 4 1/4" H.  
VT No. 48-3116



**Heavy Leather Tool Bag** with duo strap measures 10" x 4 1/2" x 3" and is 8 oz. leather. Full grain top leather is tanned oiled and wax treated. Features 4-way adjustable straps for easy mounting.  
VT No 48-3113

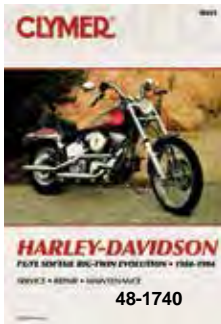


**FLH Windshield Pouch.** Windshield bag. Heavy oily leather, glued, sewn, riveted. Black, 9" x 3" x 6".  
VT No. 48-3125



# Big Twin

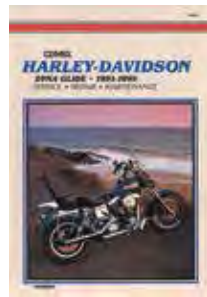
# Sportster



48-1740



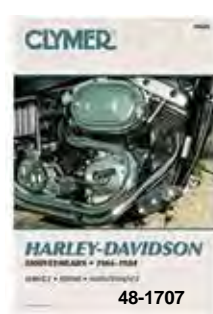
48-1753



48-1711



48-1755



48-1707



48-1800

**Clymer Repair Manuals** contain tips from engine tuning to complete wiring. Feature exploded views and photos, step by step instructions. New editions.

VT No.	Year/Model		
48-1707	1966-84 Shovelhead	48-1763	2006-11 Dynaglide
48-1740	1984-99 FXST-FLST	48-1753	1995-98 FLT-FXR
48-1759	2000-05 FXST-FLST	48-1754	1999-05 FLT
48-1761	2006-09 FXST-FLST	48-1762	2006-09 FLT
48-1711	1991-98 Dynaglide	48-1800	2010-13 FLT
48-1755	1999-10 Dynaglide		
48-1810	2011-up FXST-FLST		



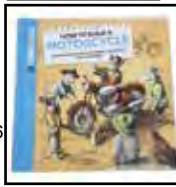
**Bruce Palmer's How to Restore Your Harley-Davidson (Latest Edition).**  
VT No. 48-1356



**How to Rebuild & Restore Classic Harley-Davidson Big Twins Book** by Rick Schunk.  
VT No. 48-0579



**Q&A Repair** by Uncle Frank. This repair manual cover most Harley-Davidson and Indian tech tips. 216 pages.  
VT No. 48-0407



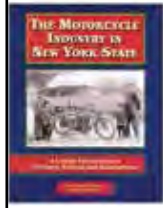
**How to Build a Motorcycle** is an 64 page book, with 100 color illustrations, by Saskia Lacey. Ages 6 and up.  
VT No. 48-0487



**Hard Covered Motorcycle Books.**  
VT No. Title  
48-0936 ABC 1920  
48-0935 1912  
48-0938 1906



**Early Motorcycle Construction Operation Service** by Victor W. Pagé. 700 pages.  
VT No. 48-0366



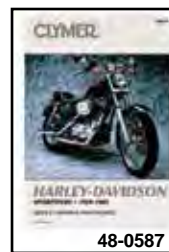
**The Motorcycle Industry in New York State History** by Geoffrey N. Stein.  
VT No. 48-1242



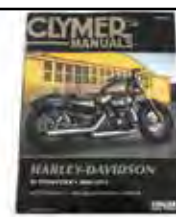
**Bobby and Jean of Newburgh**, a children's book about Newburgh, New York written in 1937. 64 pages.  
VT No. 48-0985



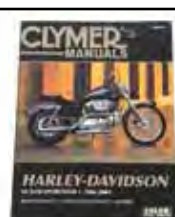
**Temple Hill Booklet.** 32 pages about the historical landmarks in Newburgh, New York and surrounding areas. Special features regarding the dedication of the Temple Hill monument. Historical map of area where George Washington set up his camp.  
VT No. 48-2200



48-0587



48-0598



48-1760

**Clymer Repair Manuals** for XL's. Contain tips from engine tuning to complete wiring. Features lots of exploded views and photos, step by step instructions. New editions.

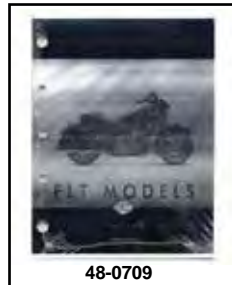
VT No.	Years
48-0587	1959-85
48-1760	1986-03
48-0598	2004-up

# Big Twin Parts Book

Spare Parts Books provide OEM numbers with exploded views to help identify exact parts required for each year application and range of fitment for each part.



48-0766



48-0709

**Spare Parts Books** provide detailed exploded views and OEM factory numbers for specific models.

VT No.	OEM	Years/Model
48-0520		45 Army Spare Parts Book
48-1245		Servi Car Spare Parts Book
48-1626		Spare Parts for for 1941Knucklehead
48-0974	99439-86A	1984-86 FXR
48-0591	99426-99	1999 FXR <sup>2</sup>
48-0592	99427-99	1999 FXR <sup>3</sup>
48-0601	99429-00	2000 FXR <sup>4</sup>
48-1558	99450-92	1991-92 Big Twin
48-1590	99450-94	1993-94 1340 Big Twin
48-0971	99438-86B	1984-86 FLT
48-0709	99456-99A	1999 FLT
48-0602	99456-01	2001 FLT
48-0718	99456-03	2003 FLT
48-0951	99439-97	1997 Dynaglide
48-0811	99439-98A	1998 Dynaglide
48-0680	99439-00	2000 Dynaglide
48-0603	99439-01	2001 Dynaglide
48-0719	99439-03	2003 Dynaglide
48-0624	99439-04	2004 Dynaglide
48-0766	99439-07	2007 Dynaglide
48-0771	99439-08	2008 Dynaglide
48-1239	99439-09	2009 Dynaglide
48-0997	99455-98A	1998 Softail
48-0604	99455-01A	2001 Softail Deuce
48-0720	99455-03	2003 Softail
48-0623	99455-04	2004 Softail
48-0772	99455-08	2008 Softail
48-1240	99455-09	2009 Softail
48-0617	99457-02	2002 VRSC
48-0721	99457-03	2003 VRSC
48-0621	99457-04	2004 VRSC
48-0730	99457-05	2005 VRSC
48-0738	99457-06	2006 VRSC
48-0768	99457-07	2007 VRSC
48-0773	99457-08	2008 VRSC
48-1241	99457-09	2009 VRSC
48-1302	99457-10	2010 VRSC
48-1311	99457-11	2011 VRSC
48-0475		Motorshop Factory Tool Guide
48-1817		1970-73 FL Repair Guide
48-1880		Accessory Book
48-1573		Rider's Handbook



**Two Wheel Treasures** by Ed Youngblood for Antique Motorcycle Foundation, 88 pages.  
VT No. 48-0179



# Big Twin Factory Service Manual



48-0627



48-0628



48-0683



48-0992



48-0716



48-0715

**Service Manuals** for years listed. Manuals cover disassembly, renewal and reassembly procedures. Includes information about engines, electrical systems, frame and forks, fuel system, transmissions, wheels and more.

VT No.	OEM	Year/Model
48-0607	99480-00	2000 FXR <sup>4</sup>
48-0714	99483-03	2003 FLT
48-0731	99483-05	2005 FLT
48-0752	99483-06	2006 FLT
48-0852	2006-09	Side Cars
48-1577	99481-92	1991-92 Dynaglide
48-0707	99481-99A	1999 Dynaglide
48-0609	99481-01	2001 Dynaglide
48-0613	99481-02	2002 Dynaglide
48-0715	99481-03	2003 Dynaglide
48-0627	99481-04	2004 Dynaglide
48-0732	99481-05	2005 Dynaglide
48-0775	99481-07	2007 Dynaglide
48-1578	99965-89	1989 Big Twin International
48-0683	99482-00A	2000 FXST-FLST, deuce
48-0614	99482-02	2002 FXST-FLST
48-0716	99482-03	2003 FXST-FLST
48-0628	99482-04	2004 FXST-FLST
48-0615	99501-02	2002 VRSC
48-0717	99501-03	2003 VRSC
48-0629	99501-04	2004 VRSC
48-0777	99501-08	2008 VRSC
48-1237	99501-09	2009 VRSC
48-1298	99501-10	2010 VRSC

# For XL



48-0713

**Service Manuals** for years listed. Manuals cover disassembly, renewal and reassembly procedures. Includes information about engines, electrical systems, frame and forks, fuel system, transmissions, wheels and more.

VT No.	OEM	Years
48-1719	99484-69	1959-69
48-1559	99484-92	1991-92
48-0964	99484-97	1997
48-0681	99484-00	2000
48-0606	99484-01	2001
48-0713	99484-03	2003
48-0723	99484-04	2004
48-0778	99484-08	2008



48-0722



**Spare Parts Books** provide detailed exploded views and OEM factory numbers for specific models.

VT No.	OEM	Years
48-0306	—	1954-65
48-1557	99451-92	1991-92
48-1591	99451-93	1993-94
48-0953	99451-97	1997
48-0677	99451-00A	2000
48-0722	99451-03	2003
48-0724	99451-04	2004
48-0725	99451-05	2005
48-0739	99451-06	2006
48-0758	99451-07	2007
48-1232	99451-09	2009

**Note: For our Product Descriptions “XL” denotes for Sportster models (including XLH, XLCH, XLS).**

## Movie Studio Lighting.

VT No.	Item
33-7000	DTW 150 Tungsten Light
33-7001	DTW 300 Tungsten Light
33-7002	DTW 650 Tungsten Light
33-7003	DTW 1000 Tungsten Light
33-7004	DTW 2000 Tungsten Light
33-7005	C-Stand
33-7007	600M High Overhead Roller Stand
33-7008	300M High Roller Stand
<b>Replacement Bulbs for Fresnel Tungsten lights</b>	
33-7020	150 watt bulb 120 volt
33-7021	300 watt bulb 120 volt
33-7022	650 watt bulb 120 volt
33-7023	1000 watt bulb 120 volt
33-7024	2000 watt bulb 120 volt
33-7015	Midi Pro Stand
33-7016	Stand
33-7017	Handy Stand

Spare Parts Books provide OEM numbers with exploded views to help identify exact parts required for each year application & range of fitment for each part.



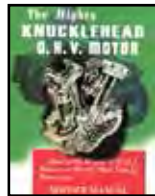
# Book and Manual



48-1244



48-0299



48-0308



48-0310



48-0307



48-1718



48-0692



48-0521

Service Manuals for years listed.

VT No.	Years	Model
48-1244	1959-70	G
48-0299	1929-52	WL
48-0308	1940-47	FL and 1937-48 UL
48-0310	1940-58	1940-52 WL and 1940-58 G
48-0307	1948-57	FL, Rigid (version with service charge manual)
48-0373	1948-57	FL, Rigid
48-0477	1970-76	FLH
48-0835	1958-69	FL
48-1718	1959-69	FL
48-0521	1941-44	45 Army
48-1381	1959-65	EL
48-1719	1959-69	XL
48-0326	1959-69	XL
48-1573	1966-69	FL Rider's Guide



48-0928



48-1166



48-1175



48-0832

Parts-Service Manual

48-0928	Knucklehead
48-1166	Panhead
48-1175	Shovelhead
48-0832	1909-1932



48-0763



48-0473



48-0745



48-1271



48-0479



48-0478

Book Sets.

VT No.	Books	Type
48-0763	6	Flathead
48-0473	4	45"
48-0745	6	1948-65 Panhead
48-0478	3	Servi-Car
48-0531	5	WLA Set
48-0524		45" Army Manual Set
48-0943	3	Rigid Panhead
48-0941	3	1958-69 Set
48-0479	3	1936 Set
48-0941	3	1959-65 Set
48-0826	4	1941-80 FLH Library
48-1271	8	Set 8 books; Shop Parts Books Series
48-1648	3	Shovelhead
48-1471		Vintage Motorcycle Set



48-0826



48-0323



48-0309



48-0314



48-0313



48-0304



48-0328



48-0319



48-0834

Spare Parts Books provide detailed exploded views and OEM factory numbers for specific models. Parts Books provide OEM numbers with exploded views to help identify exact parts required for each year application and range of fitment for each of those parts

VT No.	Years/Model
48-0336	1913-21 F, 1920-21 J
48-0328	1927-36 JD
48-0474	1930-36 VL, 1936-40 EL, UL, W
48-0834	1941
48-0323	1936-40 EL, 1937-48 UL, 1941-47 FL
48-0309	1941-48 UL, 1941-54 FL, 1941-54 WL
48-0835	1930-up W, V, FL, FX, G
48-0314	1949-57 FL
48-0313	1958-68 FL
48-0304	1940-52 WL
48-0319	1958-73 G
48-0525	1952-56 K
48-0933	1961-76
48-1382	1970-78
48-0333	1971-80 FX
48-0488	45" Parts and Guide



48-0488



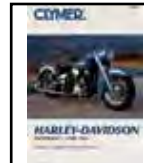
48-1958



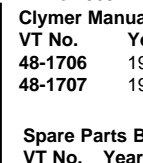
48-1959

Mechanics and Owners Guide for 1941-1959 Harley-Davidson OHV Big Twins by Kirk Perry, drawings, photos and tips.

VT No.	Volume
48-1958	1
48-1959	2



48-1706



48-1707

Clymer Manuals.

VT No.	Year/Model
48-1706	1948-65 Panhead
48-1707	1966-85 Shovelhead

Spare Parts Books for Hummer.

VT No.	Year
48-0981	1948-55
48-0982	1956-65



48-0329



48-0311



48-0305



48-0320

Factory Service Bulletins. "Shop Dope" is a compilation of service tips from factory to dealers for years listed. Great for trouble shooting. Bound.

VT No.	Year	Volume
48-0329	1912-26 Twins	1
48-0311	1930-40 Twins	2
48-0305	1941-56 Twins	3
48-0320	1957-69 Twins	4
48-0740	Complete Series (4 Books)	
48-1331	Knucklehead Dope	
48-1520	Dope	5

Paint and Number Reference Manual

includes cross reference of new numbers to old and old to new. Also included is the paint reference 1903-1976, 64 pages.

VT No. 48-1757





# Goggle

48-0222



48-0622



**Road Goggles** feature original designs with adjustable elastic straps. Face area available in either vinyl or leather, rim around the lens available in black or chrome.

VT No.	Type	Face	Rim	Lens
48-0222	Red Baron	Vinyl	Black	Split
48-0622	Aviator	Leather	Chrome	Smooth
48-0223	MK4		Chrome	Split, Stadium

48-0853



48-0854



**Retro Goggles** are available with smokey or clear lenses.

VT No.	Type
48-0853	Smokey
48-0854	Clear

**Original Stadium MK4 Goggles.**  
VT No. 48-0223



**PJ1 Blue Label** is heavy duty. Won't fly off.  
VT No. 41-0134  
8 oz.  
41-0135  
18 oz.



**Nevr-Dull Wadding Polish** is a cotton wadding to clean and polish chrome aluminum and brass. Tear off a small wad and rub surface to be cleaned, then polish with a dry cloth, leaving a protective film, 5 oz. can.  
VT No. 41-0119



**PJ1 Chain Lube** is a heavy duty chain lube for street or off road.  
VT No. 41-0132  
6 oz.  
41-0133  
17 oz.



**Super Cleaner by PJ1 Points and Spark Plug Cleaner** removes grease and dust, while displacing moisture. 13 oz. size.  
VT No. 41-0128



**PJ1 Cable Lube** cleans and lubricates in one application, 11 oz. can.  
VT No. 41-0175



# Chemical

**All Paints and Chemicals Shipped Ground Only!**



41-0123



41-0125



41-0149



41-0124



41-0126



41-0144

**VHT Special Finishes** 11 oz. size, each.

VT No.	VHT Finish
41-0123	Black wrinkle
41-0125	Flame proof 1350 flat
41-0149	Heat Silver finish
41-0124	Black oxide paint
41-0126	Black epoxy
41-0144	Black barrel paint satin restores factory look to cast iron cylinders

**Simi Chrome** is the original German formula. Available in case of 24 tubes in a display box.  
VT No. 41-0117



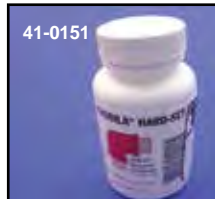
**Air Filter Oils and Cleaners.**  
K&N type is for paper elements.  
Unifilter type for foam elements.

VT No.	Size	Item
41-0171	12 oz.	K&N Cleaner
41-0172	6.5 oz.	K&N Oil
41-0173	16 oz.	Unifilter Cleaner
41-0174	5.5 oz.	Unifilter



# Sealant

41-0151



41-0152



**Gasolite Sealant** available in hard setting red varnish or soft set blue/white with teflon. Red Sealant is the original sealer for inside crank cases or cam covers for sealing pin holes on porous surfaces. Blue/White seals threaded joints on pipe threads and fittings. Both types are insoluble in oil, gas and solvents. The 1/4 pint can includes brush, each.

VT No.	Item
41-0151	Red Varnish
41-0152	Blue/White soft set



**GE Red RTV Hi-Temp Silicone** 2.8 oz. tube. VT No. 41-0182

41-8034



**Gasket Related Materials by Permatex.**

VT No.	Item/Size
41-8034	White Lithium Grease, 1.5 oz



**Gasgacinch Gasket Sealer** in a 4 oz can sold each.

VT No. 41-0168

**Thread Lockers and Repair by Loctite.**

VT No.	Item/Size
41-1202	Tank Repair Flexible Ribbon Seals, .25 oz.



**Handlebar Grip Adhesive** fastens grips to bars.

VT No. 41-0190



41-0110



41-0112



41-0113

**Kreem Sealer and Kits.** Pint can of tank sealer, producing tank within a tank, stopping leaks and corrosion. Prep cleaner and conditioner sold as kit or as 3 piece combination kit.

VT No.	Item
41-0110	Kreem Sealer
41-0112	Prep
41-0113	Kit
41-0180	Tank Degreaser



# Motor Oil



**Motor Shop Oil.** All are sold in case of six in quart size bottles.

VT No.	Type	Weight
41-0991	Synthetic Gold	20w50w
41-0992	Heavy Duty	60w
41-0993	Synthetic Gear Lube	Transmission/Primary
41-0994	Synthetic Clean	20w50w
41-0995	Heavy Duty	20w50w
41-0996	Heavy Duty/Synthetic	50w

**Motor Shop Ready Transmission/Primary Formulated Lube** is a synthetic blend lube to provide excellent lubricity for the anti-wear requires of transmission gears and primary components. Adds protection between moving parts and out performs conventional oils. Use in all Big Twin transmissions and primary chain case 1984-up Sportster transmission and primary case 1971-up.

VT No. 41-0993



**Oil Change Service Kits.**

VT No.	Fits
41-0050	1984-88 FXST, 1980-98 FLT, 1982-94 FXR, 1984-up XL
41-0051	1991-98 Dynaglide
41-0052	1999-up All TC-88 Big Twins
<b>Complete Oil Change Kits</b>	
41-0053	1984-98 FXST, FLT
41-0054	1999-06 FXST, FLST, FLT, FXD
41-0055	2007-up FXST, FLST, FLT, FXD



**Spectro Oils.** Special Blend in Premium or Golden synthetic blends, sold in quarts by case which is 12 or as each.



VT No.	Type	Blend	U/M
41-0108	70 wt	Premium	12
41-0114	60 wt	Premium	12
41-0115	50 wt	Premium	12
41-0109	20-50 wt	Premium	12
41-0155	20-50 wt	Synthetic Blend	12
41-0189	20-50 wt	Full Synthetic	12
41-0156	Primary	Big Twin for Wet Clutch 1984-up 5-Speed,	12
41-0160	Synthetic Trans	75W-140 GL-1	1
	Transmission	5 Speed Big Twin	1
41-0186	85W140	Premium Transmission Lube	12
41-0193	75W140	Platinum 6-Speed Transmission Lube	12
41-0195	75W140 GL-1	Sportster Trans/Primary Lube Platinum STL	1
41-0157	20 wt Fork Oil	Type E	12
41-0158	40 wt Fork Oil	Heavy	12
41-0194	DOT 5	Golden	



**Synthetic Transmission Lube** OE type, including semi-synthetic transmissions lube for 4 and 5-Speed Big Twin FL-FXR-FXST models. Each. OEM # 99892-84.  
VT No. 41-0162



**16 oz. Fork Oil.**  
VT No. Weight  
41-0148 10W  
41-0136 20W  
41-0116 30W



**Linkert Carb Black Paint.** VT No. 41-0144



**Brake Fluid** in DOT 4 for disc or drum, or DOT 5 for special requirements. Sold each.

VT No.	Size	Type
41-0142	12 oz.	DOT 4
41-0194	12 oz.	DOT 5

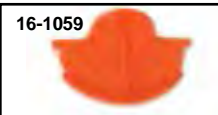


**Gear Oil SAE 90 Heavy Duty Gear Lube.** Non-foaming oil specially formulated for transmissions. Sold each.  
VT No. 41-0130

# Tools



**Jims Engine Dipstick Socket** for FLT or FXD models. Allows easy removal of to hot exhaust pipe. Features 3/8" ratchet drive hole, 7/8" hex for wrench fitment and a cutout for clearance around exhaust piper. Use on all 2007-up FLT models and 2006-up FXD models.  
VT No. 16-2759



**Oil Fill Primary Funnel** allows the oil to be added to the primary cover with no mess or spills. This funnel snaps into the bottom of the derby cover hole. Use on 1970-84 FL, 1971-84 FX, 1991-up FXD, 1984-up FXST, 1986-up FLST, 1979-up FLT.

VT No. 16-1059



**Oil Catcher Pan** is used when removing oil filter to avoid spilling oil onto engine cases. 12" tube directs oil flow into oil drain pan.

VT No.	Fits
16-0094	2009-up FXD, 2004-up XL, 2009-16 FLT
16-0256	2017-up FLT



**Slim Design Oil Filter Wrench** features a slim 14 flute design to fit most filters, and 3/8 ratchet drive hole and slim design that allows more clearance for oil filter removal especially oil coolers and crank position sensors.  
VT No. 16-1941



**Black Oxide Oil Filter Wrench** fits all spin on filters. 3/8" drive. Fits all models and TC-88.  
VT No. 16-0743



**Oil Drain Spigot** fits 2009-up FLT.  
VT No. 16-0096



**Oil Filter Wrench Pliers** fits all 60-90mm diameter filter. Features rubber coated handles and serrated jaws for better gripping. Removes stuck on oil filters easily.  
VT No. 16-1125



**Oil Drain Reservoir.** 2.5 gallon. Low profile fits under frames on Softail and FLT models.  
VT No. 16-0585



# Motor and Transmission Work Stand



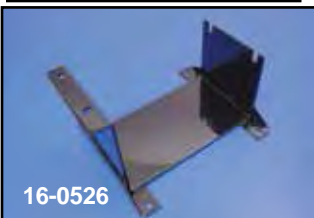
16-0507



16-0509



16-0501



16-0526



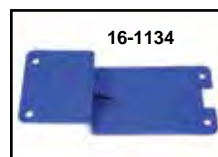
16-1285



16-1285

## Motor Stands

VT No.	Type
16-0507	1952-03 XL
16-0509	Big Twin Engine, Heavy
16-0501	Big Twin Engine, Standard
16-0526	TC-88 Engine
16-1285	45 Side Valve



16-1134



16-1135



16-1136

## Jims Rolling Buddy Engine Dummy Plate

VT No.	Fits
16-1134	1984-98 FLT, FXD, FXR
16-1135	1999-2006 FLT, 1999-2005 FXD
16-1136	2006-up FXD, 2007-up FLT



16-0506



16-0504

Transmission Stands are welded steel for shop use.

VT No.	Type
16-0506	4 Speed Trans, Vise Mount
16-0504	5-Speed Rubber Mount



## TC Beta Engine Stand

- Powder coated steel.
- Clears the rear balancer housing of the Beta style TC case.

VT No. 16-1273



16-0211



16-1907

Mini-Lift use with table lift to raise bike while on table with 3" to 12" range 600lbs.

VT No.	Item
16-0211	Mini Lift
16-1907	Extender
16-0529	Mini Lift V-Twin Logo



Roller Dolly facilitates mounting your motorcycle on the kickstand for placement in your garage. Motorcycle dolly lift holds up to 1250 lbs.

VT No. 16-1026



16-1907

Note: Motor installed.



Motor Stand with motor base fits 1936-99 Big Twin and 1999-up TC-88 solid mount engines. Will mount to most universal engine dollies which are available at most automotive outlets. Auto engine stand not included.

VT No. 16-0543



Roller Dolly with nylon wheel and has a capacity of 1250 lbs  
VT No. 16-1999

# Wheel Chock



Pingel® Wheel Chock features quick mounting and removal by sliding in and out of slotted mount pads. Chock is a chrome steel tube. Mounting kit also available separately. The appearance of the Wheel Chock including the cross brace is a trademark of Pingel Enterprises. The brackets used in the Wheel Chock are patented.

VT No.	Item
16-1501	Chock with mounts, 16", 18" or 19" wheels
16-1503	Chock with mounts, 21" wheel
16-1502	Mount Kit



# Lift



Mini-Lift use with table lift to raise bike while on table with 3" to 12" range 600lbs.

VT No.	Item
16-0211	Mini Lift
16-1907	Extender
16-0529	Mini Lift



16-0211 in use



Roller Dolly with nylon wheel and has a capacity of 1250 lbs  
VT No. 16-1999



**Tie Downs** are 1" x 5'6" in length, 1600 lb strength, 2 per set. Tie downs assist is pair of 12" black nylon straps which acts as cinch around part of the cycle first, then hook tie down to the other end of the loop, to prevent scratching.

VT No.	Item	Brand
48-0180	Tie Downs	V-Twin
48-0650	Tie Down Assist	Wright



16-2008



16-1993

# V-Lift

**Standard V-Lifts** include a jack which features a foot operated pump and release mechanism. Both units include a stay bar to keep lift in full up position when in use. Units are 4 1/2" in their unextended height. Lift top is compatible with 1936-99 Big Twin frames FXST-FLT-FLST-FLH. The FXR, Sportster and Dyna models require adapters as noted.

VT No.	Height	Jack	Jack Replacement.
16-1993	16"	4 ton	16-2007 6 Ton
16-2008	24"	6 ton	16-2006 4 Ton

All C-G lifts are manufactured in the USA using structural steels that exceed the lifting requirements. The lift mechanism keeps the motorcycle in a vertical position relative to the lifting platform during the entire lifting range. For the safe operation of the lifts, the manufacturer recommends the use of tie downs on all models equipped with eyebolts and installation of hairpin cotter as supplied in safety bar when lift is in use.



**Handy B.O.B. Motorcycle Extension**  
VT No. 16-1984  
Item 13" Front Extension





# Flywheel Tool



**Original Style Factory Type Crank Truing Machine** features cast iron construction. Designed to true stock style flywheels. 10" swing right side, 6" swing left side, 18" maximum center to center. Weighs over 80 pounds. Shipped truck only.

VT No. 16-0586



**Sprocket Shaft/Flywheel Holder** used to hold flywheel assembly in vise with or without left case attached. Can also be used to check case clearance on stroker flywheels. Use on all TC-88, 2006-up FXD's, 2007-up FL's and FXST's.

VT No. 16-0326



**Jims Flywheel Runout Inspection Gauge** allows engine builder to check flywheel runout of the pinion shaft while assembled in engine case. Also allows the checking of gear lash on gear driven cams on Twin Cam engines. Gauge fits 1970-84 FL, 1971-84 FX, 1984-up FXST, 1986-up FLST, 1991-up FXD, 1979-up FLT, 1982-94 FXR.

VT No. 16-0383



**Jims Twin Cam Flywheel Locking and Decommissioned Tool** locks the flywheel in place making service procedures easier. This tool is very visible

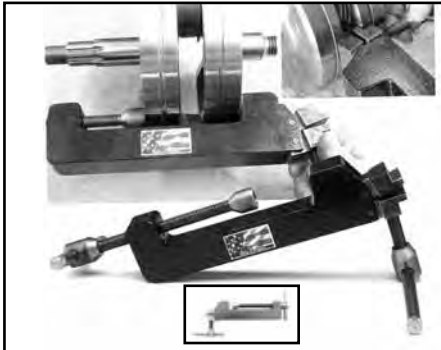
and useful to designate a bike as decommissioned. The bike will not start and clutch must be engaged in order to move bike when this tool is installed. Use on all Twin Cams 1999-up.

VT No. 16-2753



**Flywheel Truing Hammer** is a three pound zinc aluminum that lasts longer than a lead hammer and is still soft enough so that it will not mar flywheels.

VT No. 16-1020



**Flywheel Truing Tool** to fine tune flywheel assemblies when truing. This tool features both a flywheel expander, and contractor in one easy to use package. Use on all tapered shaft flywheel assemblies.

VT No. 16-0325



**1930-54 Big Twin Flywheel End Play Gauge.**

VT No. 16-0131



**Jims Top Center Oversize Case Bolt and Spot Facer Tool.** Required when any Twin Cam case spigot hole is enlarged for Big Bore Cylinders Tool is need to spot face the right case so that bolt head will seat flat on the case surface.

VT No. 16-0380 Item  
16-0380 Oversize Case Bolt  
16-0381 Spot Face Tool



**Crank Assembly Removal Tool** is used to press flywheels from cases, press cases apart and break sealant bond, for 1955-up Big Twin, by Jims.

VT No. 16-1839



**Flywheel Nut Sockets** feature a low profile of 1" tall to give 100% nut contact, machined flat at nut receiving end to eliminate rounding off the nut, by Jims.

VT No. Nut OEM Fits Drive

VT No.	Nut OEM	Fits	Drive
<b>Crank</b>			
16-1809	23966-54A	1954-81 Big Twin	1/2"
16-1810	23969-83	1983-up Big Twin	1/2"
16-1813	23901-81	1981-up XL	1/2"
16-0887	23901-81	1981-up XL	3/4"

Pinion	Nut OEM	Fits	Drive
16-1811	24017-80	1981-89 Big Twin	1/2"
16-0886	24017-80	1981-89 Big Twin	3/4"

Sprocket	Nut OEM	Fits	Drive
16-1812	24017-80	1972-up Big Twin	3/4"



**Flywheel Spreader Tool** spreads wheels while truing for Big Twins and XL's.

VT No. 16-0517



**Jims Case Splitter.** Use this tool to break the case sealant by pushing apart both case halves. Use on 2006-up Dynaglide and 2007-up FXST-FLT models.

VT No. 16-1354

# Rod Tool



**Rod Clamping Tool** allows rod to be held for straightening or to replace wrist pin bushing. 95952-33.

VT No. 16-0029 Item  
16-0029 Early Tool  
37-1045 Thumb Screw Only



**Jims TC-88 Connecting Rod Bushing Tool** use to remove and replace wrist pin bushing without removing connecting rods from crankcase.

VT No. 16-1051



**Jims Rod Race Press Tool** for easy installation or extraction of rod races makes it easy to support without bending rods for 74's and Sportsters.

VT No. 16-1838



**Jims TC-88 Wrist Pin Remover** allows easy removal of wrist pins on all TC-88.

VT No. 16-1276



**Jims Timken Bearing Race Installer** is used to press race in straight in left crank case for 1969-up Big Twin, 1977-up XL's.

VT No. 16-0668

# For TC-88 B



16-1375

**Twin Cam Timken® Case Bearing Conversion Tool** is a must for the big cubic inch late model Twin Cam 88" or 96" engine. Utilizing the special Jims precision insert, it is designed to easily and accurately convert the left side crank roller bearing (OEM# 24604-00D) to the more durable Timken Bearing (OEM# 9028). This insert is manufactured from aerospace quality steel that is several times stronger than the aluminum case material the standard bearing rides in. The tool includes:

- A new steel bearing insert held under .002" TIR (total indicator reading).
- A press plate that will hold the bearing insert in line with the case bearing bore at the time it is being pressed into case.
- All the necessary drill bits to drill oil feed and return holes, hardware and detailed instructions.

This job can be performed with normal hand tools, a hand drill and a 2 ton press.

Use on Twin Cam engines 2003 to the present. Must also use existing Jims Tool (16-0668) for race installation. Order bearing inserts and Timken bearings separately.

VT No. 16-1375 Item  
16-1375 Tool  
16-1379 Bearing Insert  
60-0181 Motor Shop Service to Machining Crankcase for above Insert requires work order number contact service dept



16-1379



# Piston Pin Tool



16-0029



16-0152



16-0725

## Wrist Pin Bushing Reamer.

VT No.	Fits
16-0725	1936-99 Big Twin
16-0216	1936-99 Big Twin
16-0726	1957-up XL
16-0727	TC-88



16-0154



16-0154



16-0181



16-0539

**Rod Clamping Tool** allows rod to be held for straightening or to replace wrist pin bushing. **Bushing Piston Pin Tool** will remove and install bronze bushing.

VT No.	OEM	Tool	Brand
16-0029	95952-33	Clamping Tool	V-Twin
16-0539	Set	Clamp & Bushing	
16-0152	95970-32	Bushing Tool	Jims
16-0154	95970-32	Bushing Tool	V-Twin
16-0181	—	Bushing Tool	V-Twin



**Wrist Pin Bushing Rod Clamp Tool Set.**  
Fits 1936-73.  
**VT No. 16-0776**



**Wire Type Wrist Pin Circlip Tool** easily installs and removes wrist pin clips without damage on 1984-up.

**VT No. 16-0075**



**Jim Piston Ring End Gap Tool** makes measuring ring end gap faster, more accurate and eliminates guess work. The flanged design that allows the piston ring to fit squarely in the cylinder bore every time. This is the first tool that is designed to test oil ring gaps by propriety cutout feature. Just install any ring, top, 2nd, or oil control rails on the tool. Install tool into a cylinder bore and then view the ring end gap in the "Key Slot". Use a feeler gauge to get your end gap measurement. Each side of the tool is made for checking standard size piston rings. Fits Twin Cam standard size pistons for 95", 103" or 110" with 3.875" or 4.00" bore.

**VT No. 16-3200**



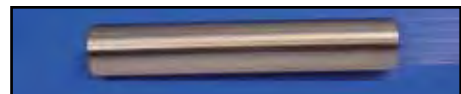
16-0142



16-0987

## Piston Pin Lock Ring Installer Tools.

VT No.	OEM	Type	Years	Model
16-0142	96780-32A	Split	1932-51	All Models
16-1757	96780-58A	Spiral	1952-73	All Models
16-1831	96781-72	Spiral	1973-77	All Models
16-0987	22582-52	Ring	1984-up	Evolution All



**Piston Pin Align Tool** fits through wrist pin bushings.

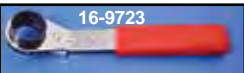
VT No.	Type
16-1747	Early
16-1148	TC-88

# Oil Pump

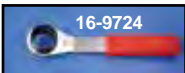


**Sifton Oil Pump Check Ball Reseater** will recut the seat to allow the ball to sit properly to prevent sumping for Big Twin and XL aluminum and cast iron pumps.

**VT No. 16-0519**



16-9723



16-9724

**Oil Pressure Sending Unit Wrenches.** These reversible ratcheting wrenches are used to install and remove oil pressure indicator lamp or gauge sending unit on all FL Touring models 1999-up.

VT No.	Year
16-9723	1999-up
16-9724	1984-98



**Oil Pump Snap Ring Installer** makes it easy to install outer snap ring on oil pump shaft, without stretching the ring. Just apply oil to ring expander, holder up to the big end of ring expander, hold up to the end of the shaft, then push ring onto the shaft with sleeve. Use on Big Twin oil pumps.

**VT No. 16-0889**



**Oil Pump Seal Installer** easily installs oil pump seal perfectly below gear surface for no leak fit.

**VT No. 16-0890**



**Oil Pump Drill Fixture** allows drilling of cases to accept late model stock or S&S oil pumps.

**VT No. 16-0986**

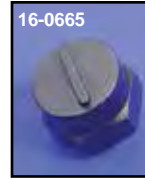


**Ball Burnish Tool** will facilitate ball burnishing of the relief valve seat on cast iron pumps.

**VT No. 16-1033**



16-0875



16-0665

**Tappet Oil Screen Plug Tool.** Wide slot type to remove stock slotted plug without removing exhaust pipes.

VT No.	Brand
16-0875	V-Twin
16-0665	Jims



**Oil Pump Drill Jig** replaces 94461-81 for installation of factory type updated pump VT No. 12-9900 on 1973-78 crank cases.

**VT No. 16-1843**





16-1796



16-1795



16-1758

**Sprocket Shaft Timken Bearing Inner Race Puller** fits 1952-76 XL.  
VT No. 16-1758

**Main Bearing End Plug Tool** allows the setting of proper end play in Big Twin Timken Bearing Assemblies by selection of proper spacer from the catalog. Use when refitting bearings or bearing sets on late models when spacers are not included. Not needed for our VT No. 12-0309 or 12-0310 Timken sets, these are pre-spaced from the factory.

**VT No. Fits**  
16-1795 Big Twin  
16-1796 1977-up XL



**Sprocket Shaft Bearing Adapter** upgrades Jims bearing installer tool (VT No. 16-1353) for work on fine-splined Twin Cam sprocket shafts. Allows for installation of Timken bearing (OEM# 8028) & roller bearing race assembly (OEM#24004-03) onto the

sprocket shaft. For Dynaglide; all 2007 Big Twin.

VT No. 16-1364



**Jims Crankshaft Bushing Remover/Installer** will facilitate removal and installation of bushing in cam support plate on TC-88 model engines.

VT No. 16-0791



**1990-up Big Twin Snap Ring Remover** will remove the Timken Bearing outer race snap ring without damage to the case.

VT No. 16-0705



**Balancer Shaft Bearing Service Tool** use to remove and install bearing fits 2000-up Twin Cam Engines.

VT No. 16-1915



16-0667



16-1833



16-1834



16-0704



**Timken Bearing Removers** remove bearing from shaft without removing shaft from flywheels.

**VT No. Fits**  
16-0667 1957-76 XL  
16-1833 1977-up XL  
16-1834 1955-85 Big Twin  
16-0704 1986-up Big Twin



16-0661



16-0664

**Sprocket Shaft Seal Installer** use this kit to install sprocket shaft seal to proper depth, and for holding the seal perfectly square, for a no leak fit. Driver sold separately, order 16-0664.

**VT No. Use**  
16-0661 1995-up Sportster and Buell®  
16-0664 Driver Set



**Timken Bearing Simulator** allows quick and easy removal and replacement of flywheel assembly in the left crankcase when checking clearances before the final assembly. Constructed of Delrin plastic.

VT No. 16-0706



**Sprocket Shaft Holder** will hold the flywheel in vise, without left case attached. Use on Big Twin 1955-up. By Jims.

VT No. 16-0683



**Crank Pin Nut Clearance Gauge** fits 1937-57.  
VT No. 16-1855

# Crankshaft Installer



16-0065



16-0058

**Sprocket Shaft Bearing Removal and Installation Tool.** Removes and installs engine sprocket shaft bearings from crankcase. Use with 33416 driver handle. Replaces 94547-80. 2 part set, 4 halves.

**VT No. Item**  
16-0058 2 Part Set  
16-0065 Driver



16-0138



16-0045



16-0046

**Bearing Race Press Plug** is used to remove and install Timken bearing outer race.

**VT No. Fits**  
16-0138 1955-up Big Twin, (97194-57)  
16-0045 1957-76 XL  
16-0046 1977-up XL



16-0140



16-1836

**Sprocket Shaft Timken Bearing Installer Tool.**

VT No.	Jims	OEM	Year/Model
16-0140	—	97225-55	1955-up Big Twin
—	16-1836	As Above	Jims
—	16-1837	97081-54	Jims, 1954-76 XL
—	16-1760*	2.500 Long	1977-up XL
—	16-1761*	2.060 Long	1977-up XL

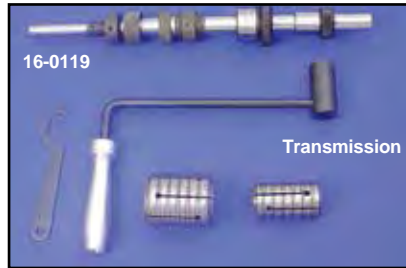
\*Note: Sold separately for 1977-up use with 16-0140 and 16-1837.



# Lapping Tool



**Lapping Tools** used for precision alignment of engine and transmission shafts. Engine unit replaces 96710-40 to lap right and left crankcase races for oversized bearings. Transmission tool insures proper fitting of oversized rollers with mainshaft races on Big Twin and Sportsters. The dual-purpose "Combo Lap" for both engine and transmission is also available. Rod laps not included.



VT No.	#	Use	Model	Years
16-0135	C	Engine	Big Twin	1936-up
16-0119	B	Trans.	Big Twin XL	1936-77
16-0039	A	Combo	C and B	1952-83
16-0012		All	Spanner Wrench	
16-0204			Pilot Set	



**Replacement Lapheads** are sold each. For Eastern tool only.

Laphead	Pilot#	Type	Fits
16-0032	1.750"	Engine	1958-up Big Twin
16-0026	1.50"	Engine	1940-54 Big Twin
16-0025	1.375"	Engine	1954-76 Sportster
			1955-57 Big Twin
			1929-73 45"
16-0018	1.562"	Engine	1987-up Sportster
16-0034	1.870"	Transmission	1936-77 Big Twin
16-0024	1.300"	Transmission	Sportster
16-0022	1.6250"	Rod	Big Twin XL
16-0021	1.50"	Rod	45"

**Rod Lapping Tool** includes arbor assembly 1.500 lap for 45", Indian and some case races, 1.625 lap for Big Twin, Sportster and K Model rods.

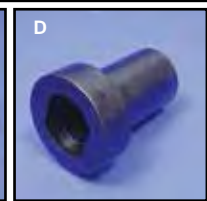
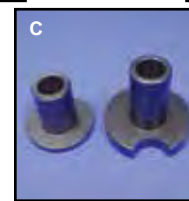
VT No.	Item
16-0027	Rod Tool
16-0012	Spanner Wrench

**Lap Head Pilots**, sold each. For Eastern tool only.

VT No.	OEM	Type	Years
16-1724	96727-56	Motor	1955-up Big Twin
16-1725	96728-56	Motor	1954-76 XL
16-1726	96715-40	1½ Motor	1930-54 Big Twin
16-1727	96716-40	Motor	1955-57 45", Big Twin

16-1832	Motor	1987-up XL
16-0216	Pilot Shaft Only	
16-0219	Sunnen Portable Head Hone	

**1278**



**Pinion Gear Puller** with collars, used to remove and install pinion gear on all Big Twins, and 1976 and earlier XL. Order nut wrench separately.

VT No.	Brand	#	Item
16-0129	VT	A	Puller Kit
16-0162	Jims	B	Puller Kit
16-1060	Sifton	B	Puller Kit
16-0406	VT	C	Collar Set
16-0141	VT	D	Nut Wrench
16-0168	Jims	D	Nut Wrench
16-0747	Motorshop		Puller Wrench Set



**1958-up Big Twin Case Lap Tool** features a lap which is supported on both sides by a pilot on the bushing side and plate which locates on the case pins of the cam cover, by Jims. Order lap and pilot VT No. 16-0881 for 1937-early 77 4-speed main race separately.

VT No.	Item
16-1835	Big Twin Case Lap Tool
16-0893	Case Lap Head only
16-0892	4-Speed Lap Head only

## Pinion Tool



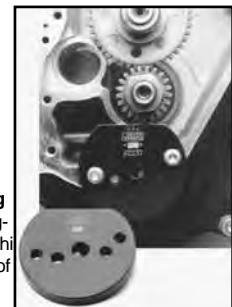
**Crankshaft Locking Tool** locks all crankshafts by engaging the pinion shaft splines. This allows removal and torquing of the pinion nut during installation. Fits 1999-up. VT No. 16-1672



**Big Twin Pinion Bearing Race Removal and Installation Tool** is used to remove and install the outer race on 1958 and later models replaces 39958. VT No. 16-0648



**1991-99 Crankshaft Locking Tool** fits XL models by engaging the pinion shaft splines. This allows removal and torquing of the pinion nut during installation. Replaces 41506. VT No. 16-1055



**Pinion Gear Lock Tool** fits 1954-up Big Twin, when applying torque to pinion nut. By Jims. VT No. 16-0659



**Jims TC-88 Crankshaft Guide** use to spread pinion bearing rollers while reassembling right side engine case on to flywheel assembly. VT No. 16-1281



**Jims Sportster Crankshaft Locking Tool.** Use on Pinion side of all 1991-up XL to keep crankshaft assembly from rotating during assembly on valve train repair. VT No. 16-1666 1991-2002 16-1665 2003-up



**Pinion Shaft Race Installer** fits 1977-E81 Sportster models. Replaces 97080-77A. VT No. 16-0965





# Sprocket Shaft Tool



16-0153



16-0888



16-1754

**Sprocket Shaft Seal and Lock Installers for Big Twins.**

VT No.	OEM	Years	Application
16-0153	97235-55B	1955-69	Installs Nut and Seal
16-0888	97235-55B	1955-69	As Above, Jims
16-1754*	39361-69	1970-up	Installs seal only, Jims

\*Note: Use with 16-0140 or 16-1836 to install seal.



**Jims Twin Cam Case Support Block for Balancer.** Engine 2000-up. These blocks properly support the case on a level plane when using a press for work.  
VT No. 16-1916



**1955-up Sprocket Shaft Hard Cap** protects shaft when using press. By Jims.  
VT No. 16-0666



**Crankshaft Stabilizer Bracket** acts as third hand. Sliding over crank splines, and bolting to a primary mount hole prevents crank from turning while installing pistons, cylinders or rings.  
VT No 16-5051



**Twin Cam 24 Tooth Crankshaft Rotating Wrench** for use on all 2006-up Big

Twins with 24T spline sprocket shaft to check engine timing and parts clearance.  
VT No. 16-9280



16-0883



16-0130

**Compensating Sprocket Wrench** to install or remove compensating sprockets. Replaces 94557-55 for 1955-69.

VT No.	Item
16-0130	Flat Type
16-0883	1/2" Drive Type, Jims



16-0150



16-1850



16-1378



16-1852

**Shaft Turning Tool** fits spline or taper on assembled motor and allows engine to be turned over by 1/2" ratchet or impact driver. Sifton unless noted.

VT No.	Years	Type
16-0150	1930-54	Big Twin, Taper
16-1850	1955-05	Big Twin, Spline
16-1378*	2006-up	FXD, 2007-up FL, FXST
16-1852	1957-up	XL, Spline

\*Note: Jims

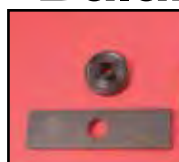


**Jims Balancer Shaft Inner Bearing Remover and Installer Tool** for all 2000-up Twin Cams. This tool will accurately remove and install the inner balancer bearing mounted in the left case.  
VT No. 16-1915

## Balance Tool



**Balancer Shaft Removal Tool** designed to remove both front and rear counter-balancer shaft bearing assembly, from the left engine case on the new 96" and 110" Beta engines.  
VT No. 16-1374



**Balancer Shaft Inner and Outer Bearing Remover and Installer** for TC-88B models 2000-up includes thrust bearing. Replaces 44066.  
VT No. 16-0540



**Outer Balancer Bearing Installer and Remover Tool** removes and installs the outboard balancer bearing on the new 96" and 110" "B" Softail engines chain guide support plate.  
VT No. 16-1376



**Jims TC-88 Balancer Shaft Alignment Tool** use for correct balancer drive assembly. Use on all 2000-up TC-88B models.  
VT No. 16-1166



**Balancing Shaft and Bearing Installer Tool** designed to align and safely install a new balancer bearing and counter balancer shaft into the new Twin Cam 96" or 110" "B" Softail engine case. For removal of balancer shaft from the engine case use Jims tool No. 960.  
VT No. 16-1377

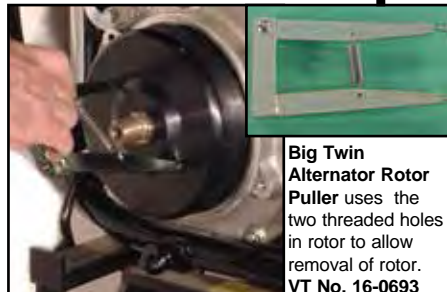


**Balancer Shaft Retention Pin** use this tool to secure the engine balancers on TC-88B engines when servicing flywheel assembly. This tool locks into the balancers sprocket pin holes to prevent the balancer from turning out of sync with flywheel.  
VT No. 16-1163

## Alternator Repair



**Moto Shop Alternator Sealing Ring Replacement Service.** Ship in 1970-up left hand case with damaged O-Ring lip and we will machine out and replace with new steel sealing ring.  
VT No. 60-0164



**Big Twin Alternator Rotor Puller** uses the two threaded holes in rotor to allow removal of rotor.  
VT No. 16-0693



**Big Twin Alternator Rotor Puller** uses the sprocket shaft end to center and the two threaded holes in rotor to allow removal of rotor.  
VT No. 16-1054



**Alternator Repair Ring Only.**  
VT No. 16-0692

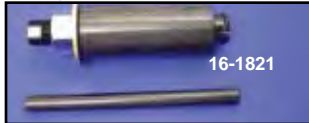
**Left Side Case Repair Ring** for TC-88 engines at inner primary.  
VT No. 16-0562



# Cam Tool



**Jims Cam Bearing Installer Tool** presses the inner cam bearings smoothly into the right case with the bearings installed to the proper depth. **VT No. 16-0660**



**Cam Bearing Puller Tool** removes inner cam bearing (Torrington type) without splitting cases while preventing rollers from coming out during removal. Not for Twin Cams.

VT No.	Fits
16-1821	1958-99 Big Twins
16-1840	1957-up XL



16-0126



16-1841



16-0127



16-1857



16-0711

**Cam Shaft Needle Bearings and Bushing Tool.** Rods install needle bearings without damage. Bushing tool positions pinion bushing in cam cover on all 1970-up Big Twin to correct depth.

VT No.	OEM	Model	Brand
16-0126	97272-60	Big Twin Needle	Sifton
16-1841	97272-60	Big Twin Needle	Jims
16-0127	97273-60	XL Needle	Sifton
16-1857	97273-60	XL Needle	Jims
16-0711	—	Big Twin Bushing	Sifton



**Tune-A-Cam Kit** includes easy to read degree wheel dial indicator, T.D.C. locator, lightweight checking springs and packed in a plastic case. Also checks cam or crank end play, shaft and gear run out.

**VT No. 16-0970**



**Jims Cam Locking Tool** allows removal and torquing of cam sprocket bolts by locking camshaft and crankshaft sprockets. Use on 2006-up Dynaglide and 2007-up FXST-FLT models. **VT No. 16-1352**



16-1351

**Inner Cam Bearing Remover Tool** allows removal of needle bearing and will also keep needles from falling into engine.

VT No.	Year
16-1821	1958-99 Big Twin (Jims)
16-1271	1958-99 Big Twin (Sifton)
16-1840	1957-up XL (Jims)
16-1351	2007-up Big Twin



16-1271



16-0684

**Cam Bearing Gauge** is a Go-No-Go gauge to check if the cam is too tight or too loose in the 9058 Torrington Bearing on 1958-up Big Twins. Set of 2.

**VT No. 16-0684**



**Cam Gear Check Pins** measure precise fit for selection. Sold in pairs.

VT No.	Size
16-1749	.105
16-1750	.108



16-0030

**Crane Cams Installation Tool** comes with easy instructions for the mechanic to install Crane's adjustable pushrods without removing the gas tank or rocker covers. In all FL-FX with adjustable pushrods, the tool makes it easy for cam changes. No removal of pushrods, pushrod covers, tappets or tappet guides. Tappets never have to fall out of the guides while doing cam changes.

**VT No. 16-0030**



16-1282

**Jims Cam Gear Remover and Alignment Tools.** The alignment tool is designed to index the cam gears position while removing or installing the cam gear. This tool will allow you to accurately

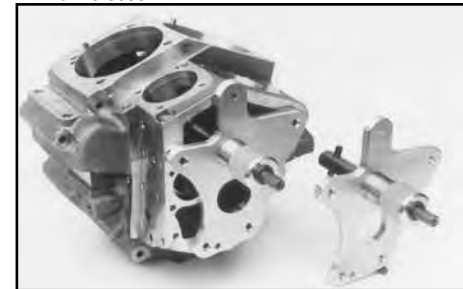
position and or reposition the cam gear from one camshaft to another, as well as allowing you to retard or advance the gear position by up to 10 degrees with the accuracy of a 1/4 degree. The cam gear remover tool is use to remove the cam gear from the camshaft. This tool acts as stable base to keep the camshaft perpendicular to the press.

VT No.	Item
16-1282	Alignment Tool
16-1283	Remover Tool



**Jims Big Twin Breather Chamber Reaming Tool** will size the hole to .030 so the oversize breather can be used for 1936-up models.

**VT No. 16-0695**



**Cam Clearance Cutter** bolts to 1970-up Big Twin cases and features an adjustable cutter and threaded depth feed. Power by 1/2" drill or use in milling machine. **VT No. 16-0879**



16-0909

**S&S Degree Wheel Kit** designed to fit the sprocket shaft of any Big Twin or XL model. Each kit also comes with pointer that is held in place by center crankcase bolt.

**VT No. 16-0909**





# Cam Shaft



**Jims Camshaft/Crankshaft Locking Tool** will lock the gear teeth on the TC 88 model engine. Instructions included.  
VT No. 16-0790



**Jims TC-88 Camshaft Bearing Tool** designed to remove and replace the right crankcase bearing in and out with no damage to crankcase.  
VT No. 16-1275



**Jims TC-88 Inner Cam Bearing Remover** replaces inner bearing easily without damage to crankcase and also prevents rollers from falling into crankcase. Use on TC-88.

VT No. 16-1279



**Jims TC-88 Crankshaft Guide** use to spread pinion bearing rollers while reassembling right side engine case on to flywheel assembly.  
VT No. 16-1281



**Jims Cam Chain Tensioner Unloader** will hold the tension of the primary cam chain on the TC-88 model engine. Instruction included.  
VT No. 16-0793



**Jims Outer Balancer Bearing Installer and Remover Tool.** This tool removes and installs the outboard balancer bearing on 96" and 110" "B" Softail engines 2007-up.  
VT No. 16-0324



**Inner Cam Bearing Remover Tool** allows removal of needle bearing and will also keep needles from falling into engine.

VT No.  
16-1821  
16-1271  
16-1840  
16-1351

**Year**  
1958-99 Big Twin (Jims)  
1958-99 Big Twin (Sifton)  
1957-up XL (Jims)  
2007-up Big Twin



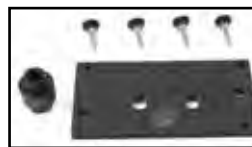
16-1271



**Jims Camshaft Remover and Installer Tool** allows removal and installation of cams in the TC-88 model engine. Tool is used in conjunction with VT No. 16-0793 cam chain tensioner unloader.  
VT No. 16-0792



**Jims TC-88 Cam Bearing Puller** used to remove bearing from camshaft, this tool is designed to remove the bearing straight with no slipping or binding. Use on all TC-88.  
VT No. 16-1280



**Jims TC-88 Inner Cam Bearing Tool.** This tool will safely install the inner cam bearing in all 1999-up FXST-FLST and Dynaglide models.

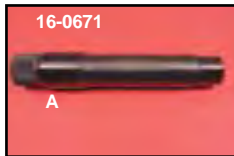
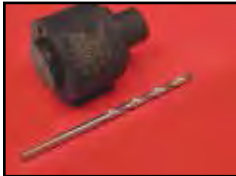
Installs bearings to the proper depth in case without damaging bearings.

VT No. 16-1384



**Jims Cam Assembly Tool** for all 2006-up Dyna and 2007-up FXST, FLT models. Used to hold both cams in an upright position while lowering the cam support plate over cam journal.  
VT No. 16-0323

# Cam Bushing



**1970-up Big Twin Cam Bearing and Bushing Alignment Tool** aligns to within .0003" of the center line. Any binding of this tool indicates misalignment of cam cover and or bushing. By Jims.

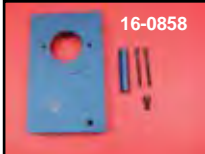
VT No. 16-0671 (A)

**1936-69 Cam Cover Bushing Remover Tool** removes bushing in one operation. Fits Overhead Valve (OHV).

VT No. 16-0669 (B)



**Pinion Bushing Puller** Tool is used to remove the pinion bushing from the cam cover on 1954-up Big Twins.  
VT No. 16-1822



**Cam Cover Holding Tool** holds 1970-up Big Twin Covers while removing and installing bushings. Holds cover flat, to avoid scratches.  
VT No. 16-0858



**1991-up XL Crankshaft Bushing Plate Pilot and Reamer.** Reams in board camshaft and camshaft crankcase bushing, replaces 38871.  
VT No. 16-1823

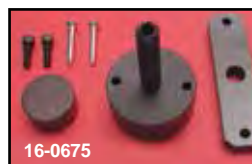


**Bushing Reaming Tools** fit pinion bushing in cam cover.

VT No.	OEM	Year	Model
16-0982	94805-80A	1958-up	Big Twin
16-0981	94812-37A	1954-76	XL & 45"
16-0980	94812-80A	1977-85	Sportster
16-0979	94813-80A	1941-54	Big Twin
16-0978	94814-80A	1955-57	Big Twin
16-0962	94812-89	1986-up	Sportster
16-1791	—	1957-up	Sportster
16-1797	94802-70	1970-up	Big Twin Cam
16-1802	—	1936-69	BT Cam



**Sifton Cam Cover Puller** easily removes 74 and 80 cam cover on 1970-99 models.  
VT No. 16-0839



**Big Twin Cam Seal Installer Tool** can be used to remove or install seal and will also remove cover from case. Fits Big Twin, 1970-up.  
VT No. 16-0675

**Cam and Pinion Bushing Drill Jigs** allow the installation and drilling of a dowel pin to factory location supplied with #31 drill by Jims.

**Cam Bushing Drill Jigs**

VT No.	Year	Models
16-1814	1936-69	Big Twin (Fits Overhead OHV)
16-1779	1970-99	Big Twin (Fits Overhead OHV)
16-1818	1954-up	XL

**Pinion Bushing Drill Jigs**

VT No.	Fits
16-1820	1936-53 Big Twin
16-1780	1954-92 Big Twin
16-1817	1937-73 45"
16-1819	1937-48 74" and 80" Side Valve



# Lubrication



**Combination Oil Filter Wrench** includes drain plug hex at opposite end.  
**VT No. 16-0451**



**Swivel-Flex Oil Filter Wrenches** feature gripper teeth and a durable treated band with a vinyl covered flex handle which swivels to clear frame and exhaust obstructions. Replaces 96221-80. **VT No. 16-0903**



**E-Z Squeeze Bearing Packer.** Patented design greases all tapered bearings with a  $\frac{5}{8}$ " or larger inner diameter Canister holds grease for clean operation.  
**VT No. 16-0755**



**Seal Puller Tool.** Simply insert the tip of the tool behind the oil or grease seal, press and pull leverage works for you. No more pounding, hammering and digging that might damage bearings. Two size tips reach in and fit nearly all seal applications.



**Grease Fittings.** Special thread.

VT No.	Year	Type	U/M
8770-6	1909-38	Nickel	6 pack
49-0595	1909-38	Nickel	10 pack
44-0533	1938-up	Zinc	10 pack
9864-6	1938-84	Cadmium	6 pack
9897-6	1938-84	Chrome	6 pack
44-0558	1938-up	Nickel	10 pack
37-0511	1938-up	67.5°, Zinc	5 pack
37-0521	1938-up	90°, Zinc	5 pack
49-0688	1936-37	90°	5 pack
49-0636	Cad	Straight	10 pack
49-0637	Cad	67.5°	10 pack
49-0687	Cad	Assortment	20 piece



44-0533



**Oil Drain Reservoir.** 2.5 gallon. Low profile fits under frames on Softail and FLT models.

**VT No. 16-0585**



**Oil Filter Wrench** use with  $\frac{3}{8}$ " drive.  
**VT No. 16-1941**

**VT No. 16-0838**



**Wheel Bearing Greaser.** Fitting and spigot greases 1973-99 tapered bearings without removing seals, use existing seal spacer or purchase separately.

VT No.	Item
16-0803	Tool
44-0303	Collar



16-0565



16-0566



16-1674



16-0594

**Grease Kit and Metal Squirt Can.**

VT No.	Item
16-0565	Metal Squirt Oil Can
16-0566	Squirt Oil Can with flexible nozzle
16-1674	Grease Kit
16-0594	500cc Can



**Flat Top Alemite Grease Fitting Adapter** is designed to be used on alemite grease fitting, 0340. Tapped  $\frac{1}{8}$ " NPT to use with standard grease gun.

VT No.	Brand/Item
9929-1	Colony/Adapter
9929-1T	VT/Adapter



Works Best!

**Oil Filter Wrench** fits all spin on filters.  $\frac{3}{8}$ " drive. Fits all models and TC-88.  
**VT No. 16-0743**



**Clone Speed Wrench** allows removal of head bolts on 1936-84 Overhead Valve models, after they are broken loose with wrench.

**VT No. 16-0953**

**Clone Cycle! Original Design by Frank Andrus of New London, Ohio in the mid-1990's.**

# Early Tools



16-1735

**Tappet Guide Puller** for 1930-73 45 Side Valve, 1930-40 Big Twin Side Valve. Note for use on all Flatheads with screw type valve covers. Replaces 11906-38.

**VT No. 16-1735**



16-0840



16-0841



16-0842

**Side Valve Tool Kits** includes tool roll.

VT No.	Fits
16-0840	1929-73 45" & Solo
16-0841	1930-40 SV-VL-ULH
16-0842	1941-48 SV-VL-ULH



**Clutch Puller and Sprocket Nut Tool Kit** for Knucklehead and clutch Flathead models.

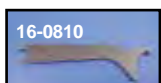
**VT No. 16-0571**



16-0414



16-0805



16-0810



16-0812

**Valve Cover Wrenches.**

VT No.	OEM	Type	Years	Model
16-0414	11806-31	Lower, Nut	1929-73	45
16-0805	11806-30	Upper, Nut	1930-38	74 and 80
16-0810	11806-30A	Lower, Hook	1930-38	74 and 80
16-0812	11959-39	Clip Type	1939-48	74 and 80



16-0823



49-0366

**Big Twin Countershaft Sprocket Nut Tools** are factory style forged tools.

VT No.	Models	Use
16-0823	1941-73	45
49-0366	1936-40	Big Twin



**Clutch Puller** fits 1936-61 and 1937-40 Big Twins, except VL.  
**VT No. 2556-1T**

Adjust tappets so that there is .004" to .005" clearance between intake valve stems and tappets, and .007" to .008" clearance between exhaust valve stems and tappets.





# Early Tools



16-0108

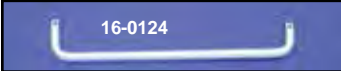


16-0141

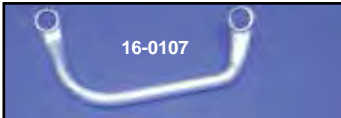


**Eight Piece Factory Style Wrench Set** features exact replicas as the dealers used.

Fits:  
EL 1936-1952  
FL 1941-1984  
G 1941-1957  
W 1936-1952  
VT No. 16-1296



16-0124



16-0107



16-0804



16-0518



16-1019



16-0103



**Left Rear Engine Mount Bolt Wrench** allows removal and installation of left rear motor mount bolt on Big Twins without removing the inner primary cover. VT No. 16-0518



16-1003

**Spring Fork Assembly Clamp** facilitates building of stock type forks by compressing upper and lower spring. Fits 1936-57.

VT No. 16-1003



**Fiberglass Saddlebag Rivets**, 50 pack.

VT No.	OEM	Length
37-0566	90965-63	5/16"
37-0567	90966-63	1/4"
37-0568	90967-64	3/8"



**Clutch and Brake Brass Rivets.**

VT No.	OEM	Type	Use
37-8805	—	Short 4-4 1/2	Brake
37-8806	41871-31	Long 4-5	Brake
37-8807*	8226	Short 7-4	Clutch

\*Note: For clutch hub friction disc.



16-1735

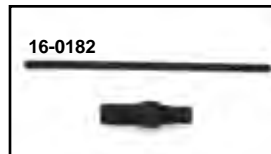
**Tappet Guide Puller Tool.**

11906-38. Fits 1930-73 45 Side Valve, 1930-40 Big Twin Side Valve. \*Note: Use on all Flatheads with screw type valve covers.

VT No. 16-1735\*



16-0615



16-0182

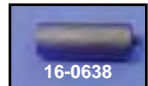
**Gas Valve Shut Off Tool** replaces 96365-42 to correct alignment of bottom and top holes of 1940-65 gas tanks.

VT No.	Item
16-0615	OE Style
16-0182	Motor Shop



**Cone Nut Wrench** features pins to turn cog style cone nut 3/8" drive. Fits Big Twin.

VT No. 16-0178



16-0638

**Generator Gear Puller** Center Cap use with claw type pullers. OEM# 95636-46.

VT No. 16-0638

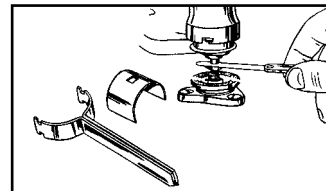


**Clutch Hub Wrench Kit** includes a factory style wrench and nut. Fits 1936-40 EL and UL.

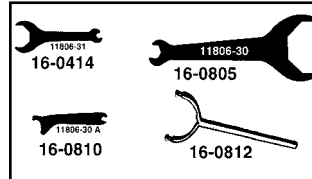
VT No. 16-1038

## Shop Wrenches.

VT No.	OEM	Use
16-0141	94555-55A	Big Twin Pinion Nut, 1954-up
16-0124	94590-73	3/8" Drive for Head Bolts
16-0107	94585-30	Cylinder Base, 5/8"
16-0875	—	Tappet Oil Screen, Plug
16-0108	94589-29A	Cylinder Base, Head Bolt fit 5/16" Nuts
16-0804	11929-29	Spark Plug and Tappet 1 5/32"
16-0103	94501-56	Circuit Breaker Big Twin 1 7/16" Hex
16-0067	12047-30	UL Head Bolt
16-0068	12047-36	OHV Head Bolt
16-1019	—	UL Head Bolt
16-0518	—	Rear Motor Mount



16-0812



16-0414

16-0805

16-0810

16-0812

Adjust tappets so that there is .004" to .005" clearance between intake valve stems and tappets, and .007" to .008" clearance between exhaust valve stems and tappets.

## Valve Cover Wrenches.

VT No.	OEM	Type	Years	Model
16-0414	11806-31	Lower, Nut	1929-73	45"
16-0805	11806-30	Upper, Nut	1930-38	74" and 80"
16-0810	11806-30A	Lower, Hook	1930-38	74" and 80"
16-0812	11959-39	Clip Type	1939-48	74" and 80"
16-0345	Set	U and L	1930-38	74" and 80"



**Rivet Set** will cap head of solid steel rivets for 3/8" round head size.

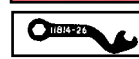
VT No. 16-0709

## Kit Tools Sold Separately.

VT No.	OEM	Use
16-0804	11929-39	45" Tappet and Spark Plug
16-0806	11904X	Tappet Wrench, pair
16-0816	12051-30	74" Axle Sleeve
16-0818	11814-35	45" Axle Sleeve
16-0817	11815-26	5/8" x 1 1/16" All Purpose
16-0808	11804X	5/16" x 1/2" All Purpose
16-0822	11814-26	45" Rear Axle
16-0814	94426-78	1 1/16" Rear Axle
16-0815	94427-78	1 1/16" Front Axle
16-0813	94428-78	3/4" Wrench
16-1286	—	Spark Plug
16-1345	—	Spark Plug Socket
49-0862	—	Socket, 18mm
16-1614	—	18mm
16-0371	—	18mm Spark Plug Wrench Set



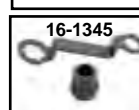
16-0806



16-0817



16-0822



16-1345



16-1362

**Gasket Locator Tool (3 Piece Set)** will align primary, cam and transmission end cover gaskets, to prevent misalignment and oil leaks.

VT No. 16-1362



**Spring Fork Rocker Bushing Remover-Installer Tool** will replace stock steel bushings on 1930-57 Spring Forks.

VT No. 7611-2



# Tool for EFI & Carburetor



**Slow Jet Screw Driver** facilitates removal of Keihin slow jets with no damage to jet.  
**VT No. 16-0546**



**Fuel Pressure Check GaugeTool** provides simple, fast, and accurate fuel pressure checks. Includes 100psi gauge, hose, and adapter. The adapter features stainless

steel springs and a push button that releases all fuel through the drain line. Fits all models with EFI.  
**VT No. 16-0591**



**Adjustable Main Jet Conversion Kit** fits all Bendix carburetors. Thumb screw adjustment makes tuning a five minute cinch.  
**VT No. Item**

**35-0202** Jet Kit  
**16-0865** Jet Tap 3/32" x 32.  
Some early carbs require drilling and tapping for jet installation.



**Jims Fuel Pressure Test Gauge Tool** includes all the necessary hose connections and fittings to safely perform a fuel pressure test on all 2002-up FLT, 2004-up FXD and 2001-up FXST with fuel injection.  
**VT No. 16-0317**



**EFI Check Valve Rebuild Kit** for all EFI model Twin eliminates the need to replace the check valve and fuel line when only an O-ring is needed.  
**VT No. Item**

**35-0446** Rebuild Kit  
**14-0586** Check Valve O-Rings only  
**16-0592** Installation Tool



16-0186



16-0316

**Fuel Pump Retainer Remover Tool.** Safely removes the retaining ring holding the fuel pump inside gas tank on all 2008-up FLT models. Use for quick and easy service of fuel filter and other fuel related parts.  
**VT No. Item**

**16-0316** Tool, Jims  
**16-0186** Wrench

## Hose



**Hose Clamp and Tool.** Stock type clamp closing tool and clamps in bags in as sized (Inner Diameter (ID)).  
**VT No. ID Use/Fits**

**16-0053** 1 1/16" Feed Drain  
**16-0062** 1 7/32" Oil/Gas Hose  
**16-0061** 7/16" Oil Hose  
**16-0052** 1 3/16" Drain Hose  
**16-0064** 4 5/64" Oil Filter, 1979-up XL  
**16-0082** 1 3/16" Oil Hose, 1995-up XL  
**16-0063** 1 9/32" Brake Hose Reservoir  
1982-up FLT-FXR-FXST

**37-8933** 1/4" Battery Vent Clamp  
**16-0081** 1/2" Cam Cover Fitting Oil Line  
Vent, 1993-up XL

**16-0050** Tool, Pliers Only

**16-0000** Oil and Gas Hose Pliers.



**Snimp Hose Cutter** is a hand held device which quickly cuts any size rubber or nylon hose up to 3/4" diameter. leaves hose perfectly clean and square.  
**VT No. 16-0049**



16-0000



**Fuel Transfer Tool** for all 2001-up EFI Twins (except V-Rod). Attaches to the stock check valve and allows fuel transfer from one bike to another or to use for draining the fuel tank for seasonal storage. Transfer of fuel is at roughly one quart every 20 seconds. No modification required. **VT No. 16-0593**



**Oil Gas Line Clamp Assortment** includes pliers.  
**VT No. Oetiker No.**

**16-0080** Service Kit  
**16-0083** Pliers only



16-0083



**Fuel-Oil Line** are available in shop rolls in reinforced black or clear for fuel use.

Black	Clear	Size	Length
40-9999	—	1/8"	10'
40-0117	40-1250	3/16"	25'
40-0118	—	1/4"	25'
40-0119	40-1252	5/16"	25'
40-0120	—	3/8"	25'
40-0253	—	3/8"	6'
40-0126	—	1/2"	25'

## Hand Tool



**Stud Remover and Replacer** is a powerful tool that is designed to fit into the hard to reach spots and get out the hard to turn studs. Capacity from 1/4" to 3/4".  
**VT No. 16-0617**



16-1881



16-1610

**Saddlebag Latch Rivet Tool** gives secure fastening of rivets while providing a clean factory look.  
**VT No. Type**

**16-1881** Jims  
**16-1610** VT



**Safety Wire Tools.** Wire twisting pliers have an automatic twisting and playing motion which gives uniform twists without damaging wire, with an attractive end result. Bolt drill fixture allows drilling of 1/16" diameter holes in heads of hex, 12 point, or allen head cap screws from 3/16" to 5/8" shank diameter. Includes drills and bushings, which secure the bolts during the drilling operation. Tools sold separately.

**VT No. Item**  
**16-0749** Drill Fixture  
**16-0983** Twisting Pliers  
**16-0972** Tie Wire, .032  
**16-0971** Tie Wire, .041





# Cylinder



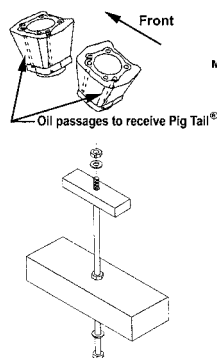
**Jims Twin Cam Case Boring Jig** used for boring out Twin Cam Case sets to accept 4" Bore Cylinders. This tool is designed to be used in a heavy duty 15" drill press. Works on TC-88 A&B Crank Cases. VT No. 16-1177



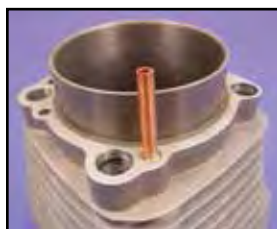
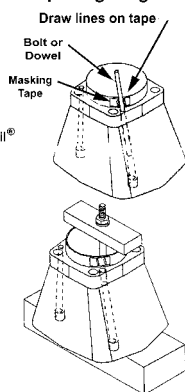
**Cylinder Head and Crankcase Boring Fixture** designed to simplify and reduce the time required to prepare the crankcase and cylinder heads for big bore kit installations. The boring plate is made of cast iron and is precision ground and machined with Panhead and Shovelhead head bolt patterns in one end. The other end has been finished with the cylinder base patterns of Knuckleheads, Panheads, Shovelheads and V2 Sportsters and Big Twins. When adapted to boring bar it is possible to bolt the crankcases or heads to the plate and perform the boring modifications necessary for 3 5/8" bore cylinders. V2s require use of spacers because of the extreme length of the cylinder and head spacer, part VT No. 16-1868. Big Twin V2's with male style studs require on spacer VT No. 16-1868 and one spacer VT No. 16-1869. Note: Big Twins V2's with female type studs must be changed to the male type of studs, when installing a sidewinder.

VT No.	Item
16-1867	Boring Plate with screws
16-1868	3 1/16" Spacer
16-1869	7/8" Spacer

**Figure 1: Identifying the correct oil passages**



**Figure 2: Marking oil passage angle**



VT No. 16-0911  
**Tube Installed**



**Evolution Cylinder Oil Passage Drain Tubes** for stock bore size cylinders only. Each kit is supplied with tap, hex wrench two drain tubes and instructions.

VT No.	Item
16-0911	Kit
16-0912	Pair Replacement Tubes only



VT No. 16-0912



**Jims TC-88 Cylinder Torque Plates** lasered with correct torquing sequence for TC-88 and TC-96 OEM cylinders. VT No. 16-1287



**Jims Evolution Case Cylinder Spigot Bore Tool** allows boring of cylinder spigot hole, up to 3.8125" by utilizing the stock cylinder stud holes. Use on all 1984-99 style Evolution crankcases.

VT No. 16-1409



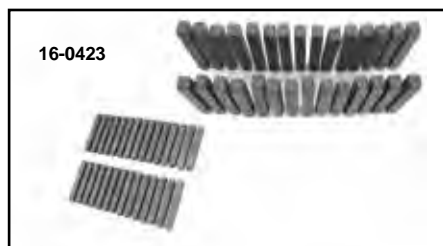
**Ring Groove Cleaner.**  
VT No. 16-0619



16-1039



16-1264



16-0423

**Motor Number Stamp Set for FL models.**

VT No.	Year
16-1039	1936-47
16-1264	1950-69
16-0423	1970-99



**S&S Evolution Cylinder Torque Plate Kit** simulates stress conditions when boring and honing Evolution Cylinders. Machined from chrome moly steel, fits all Big Twin 1340 and Sportster 883-1100-1200 cylinder, and 3 5/8" S&S cylinder.

VT No. 16-0928



**Cylinder Hold Down Nuts** are used to hold down cylinders during service. Allows motor to be turned over with heads off. Use on all Twin Cam and Evolution Twins. Set of 4.

VT No. 16-0446



**Cylinder Wall Flex Hone** features silicone carbide globules which allow the deglazing of cylinders 3" to 4 1/4" when powered by a 3/8" or larger drill, 180 Grit.

VT No.	Bore
16-0574	4 1/4"
16-0576	4"
16-0575	3 5/8" - 3 3/4"
16-0616	3 7/16" - 3 1/2"
16-0618	3" - 3 1/16"



**Piston Ring Installer Tool.**  
VT No. 16-0628



**Ring Compressor Kit.**  
VT No. 16-0622



**Jims Piston Support Plate** provides a non-marring flat support to push the bottom of the piston as rings and cylinder are installed over piston. VT No. 16-1164



**Piston Ring Grinder Tool.**  
VT No. 16-0976



16-1264



# Cylinder



16-1845



16-1846

**Evolution Cylinder Tools** allow installation of stud to correct height or removal by locking to stud.

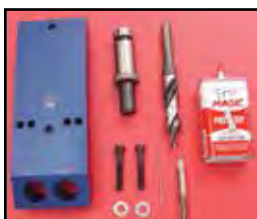
VT No.	Item
16-1845	Assembly Tool
16-1846	Extracting Tool



**Cylinder Jig Assembly** use to repair stripped damaged cylinder base threads up to a 4" bore, in engine case. This will hold centerline

and squareness to where the factory intended them to be. All this with the engine still in the frame using an angle head drill (drill not included). Use on all 1984-99 Big Twin Evolution and 1986-up XL.

VT No. 16-0891



**Jims Compression Release Valve Tool** use this tool for machining all Twin Cam heads 1999-up for compression releases. Installs on front or rear head, with or without valves installed. Order

threaded tap tool and compression releases separately.

VT No.	Item
16-1169	Compression Release Tool
16-1170	Threaded Tapping Tool
16-1171	Compression Release Valve, pair
60-0132	Machine Head and Install Release Valves



**Cylinder Head Support Stand** fits Evo, Shovelhead and Ironhead Sportsters. Adapters are to be used with a bar press and the stand included to push guides in and out in a straight line. Set includes stand and 6 adapters.

VT No. 16-0651



**Jims Rocker Box Alignment Tool Set.** Fits 1999-up FXST, FLST, FLT, FXD

VT No. 16-1882



16-1884

**Jims Exhaust Pipe Retaining Ring Tool** fits 1984-up FXST, FLST, 1986-up FLST, XL.

VT No. 16-1884



**Exhaust Stud Drill Fixture** fits 1984-up Ex Big Twin and XL ports to align for drilling of broken exhaust stud.

VT No. 16-0698



**Head Bolt Torque Gauge** for all Evolutions. This gauge allows the measuring of 90° when tightening Evolution head bolts. Torquing sequence lasered on gauge. Use on all 1984-up Evolution models.

VT No. 16-0679

# Head



**Head Holder Tool** by Pingel® has 12 and 14mm ends to hold head through spark plug hole, by support in a vise. VT No. 16-1842



**Jims Beta Engine Interconnect Seal Leak Testing Tool** will check the sealing of interconnect seal 45359-00. This seal is required to seal the oil passage way from right case to the balancer plate in all Beta engines. After you have built the "B" lower end with flywheels, balancer assembly and then before you install the cam support, you will be using this new tool to inspect sealing of the rubber interconnect seal. You should also check this deal when installing a new cam set or any time you have the cam support off. If this new or old rubber interconnect seal is leaking it can cause over oiling of the lower end decreasing horse power from oil drag, and oil carry over (oil coming out the breathers). This taxes the other seals and gaskets and lower end oil pressure. Can also be used to check pressure lost at the balancer tension plate. Tool is easy to use, just screw tool to right case and install leakdown tester. Test time takes about the same as changing a set of spark plugs. Use on all Beta Twin engines 2000-up.

VT No. 16-1859



**Cylinder De-Glazer** feature spring action on the stones keep the stones against the cylinder wall at the correct pressure. Capacity 2" to 5½".

VT No. 16-0610



**Clone Speed Wrench** allows removal of head bolts on 1936-84 Overhead Valve models, after they are broken loose with wrench.

VT No. 16-0953

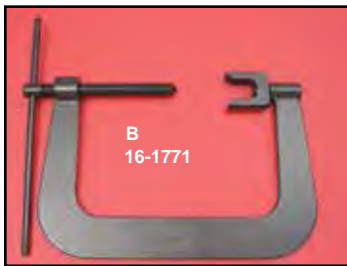
**Clone Cycle! Original Design by Frank Andrus of New London, Ohio in the mid-1990's.**



**Jims Beta Engine Hydraulic Balancer Retainer Tool** use these retainers to hold the hydraulic tensioners in place when repairing all Beta engines. The hydraulic tensioners are used to keep constant chain tension on the counter balancer system. Without the use of these retaining tools you will not be able to remove or install the balancing system. Use on all Beta Twin Cam engines 2000-up.

VT No. 16-1858





16-0320



**Conical Valve Spring Collar** add this to the Jims or Motorshop valve spring compressor tool (96600-36B) to remove and replace valves and conical valve springs (Bee Hive) OEM 18245-02. A must have tool for safe valve work. Use on all 2005-up Big Twin, except S.E. models and all 2004-up XL's.  
VT No. 16-0320



16-0146



16-1788

**Valve Spring Compressors** Factory style replaces 96600-36 for all Big Twins OHV.

VT No.	Fits	Brand	Fits
16-0146	1936-84	Replica	Big Twin
16-1771	1936	Jims	Big Twin/Evolution
16-1788	1936-up All	Sifton	Big Twin/Evolution
16-0320*	2005-up		Big Twin
	2004-up		XL

**\*Note:** Conical Valve Spring Adapter only to be used with 16-1771 valve spring compressors.

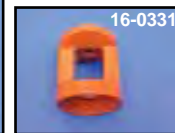


**Jims Exhaust Gasket Installer Tool** will correctly install exhaust port gaskets into cylinder heads, minimizes gasket distortion. Helps heads flow better.  
VT No. 16-2112



**Sunnen Valve Seat Driver Kit** includes driver, 1.50 x 1.625 ring, 1.75 x 1.875 ring and 2.00 x 2.215 ring.  
VT No. 16-0523

## Valve



**Sifton Valve Spring Tool** is bench mounted to compress springs on 1936-up engines also used for checking valve travel and coil bind of the valve springs by placing a dial indicator on the top of the threaded shaft.

VT No.	Item
16-1774	Bench Tool
16-0331	Cone Adapter

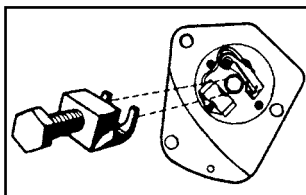


**Rear Intake Valve Spring Compressor.** Compresses intake valve spring on the rear cylinder of the Softail so the rocker box can be removed while the engine is still in the frame. It does this without damage to the valve stem, valve spring, or rocker cover. Replaces 34641.  
VT No. 16-0868



**Valve Grinding Stick** for hand grinding valves. Synthetic rubber vacuum cup is resistant to oil, grease and gasoline. 1/16" cup diameter.  
VT No. 16-0604

## Timing



**Acu-Time Device** locks advance mechanism on all 1970-78 models for accurate static timing. Includes instructions.

VT No. 16-0161



**Spark Plug Indexer** fits 14mm plugs allows electrode to be placed in proper position.

VT No. 16-0623 Tool  
16-0676 Index Washer 30 Assorted



**Spark Plug Firing Indicator.** Captive type spark plug firing indicator. No need to puncture cable. Reads flashes from neon bulb to indicate plug firing.  
VT No. 16-0624



**Spark Tester** is adjustable for all voltages, gauge background makes spark easy to see for accurate measure.  
VT No. 16-0991



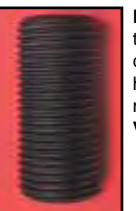
**Clear Timing Plugs** available long optically clear type or short standard version with or without the internal hex.

VT No.	Type	U/M
16-1731	Long	Each
16-0829	Hex	Each
16-0099	Standard	10 pack
16-0160	Standard	Each



**TDC Indicator** is a 14mm tool that locates top dead center of piston with heads on engine, when degreasing camshaft.

VT No. 16-0047



**Flywheel Locking Tool** screws into timing hole and allows holding of the crank for top dead center. It has a hollow center to allow view of timing mark.

VT No. 16-1851



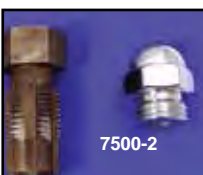
**Timer Device** bolts inside primary cover on 1970-up Big Twin models. After installation, only inspection oval of outer primary has to be removed for accurate timing.

VT No. 16-1736



**Clean Time** pushes into timing hole and wipes flywheel clean for strobe timing.

VT No. 16-0715



**Oversize Plugs with Tap.** Kit includes a tap and a chrome dome head plug.

VT No.	Type	Includes
7502-2	Engine Drain	Plug and Tap
7503-1	Engine Drain	Oversize Plug
7500-2	Timing	Tap and Plug, Acorn
7501-1	Timing	Acorn Plug, O.S.
9407-1	Timing	Tap only

16-7443



16-7444

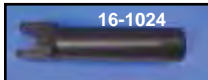


**Timing Tools.** Screw into timing axle, and are spring loaded for a positive location.

VT No.	Type
16-7443	Slot
16-7444	Point



# Tappet Tool



**16-1024 Pushrod Cover Removal Tool** fits TC-88 models.  
VT No. 16-1024



**Sifton Tappet Guide/Oil Pump Alignment Tool.** Use to align tappet guide to engine case on all Evolution 1340 Big Twins and also aligns oil pump on TC-88 Big Twins. Also available in width 1/4 x 24 threads for after market crankcase sets. Sold in pairs.

**VT No. Fits**  
**16-0998** Evolution Tappet Guide/TC-88 Oil Pump  
**16-0977** 1/4" x 24

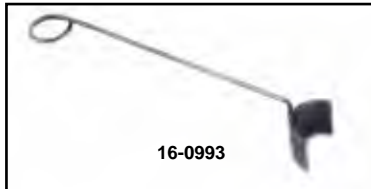
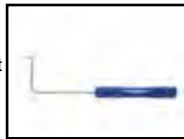


**16-0874 Sifton Tappet Roller Fixture.** Positions and holds roller and tappet for removal and reassembly for all Big Twins including Evolution. Instructions are included. Punch and drill not supplied.  
VT No. 16-0874



**Tappet Guide Puller Tool** for 1957-85 Sportster, replaces 95724-57.  
VT No. 16-0157

**Jims Tappet Adjuster Hand Tool** verifies proper adjustment on most hydraulic tappets for Evo and Twin Cam models.  
VT No. 16-1886



**Sifton Pushrod Adjustment Gauge** for use on Big Twins 1953-84 with hydraulic lifter. Replaces 91438-79. Complete with instructions.

VT No. 16-0993



**Sifton Magnetic Tappet Lifter** holds tappets up while changing cam on all Evolution or TC-88 Engines.  
VT No. 16-1035

**Jims Twin Cam Oversize Reamer.** Designed to ream the case to fit a +.010 oversize Twin Cam tappet. Includes reamer and two flex hones. Tappet sold separate.

**VT No. Item**  
**16-2789** Tool  
**16-1811** Tappet



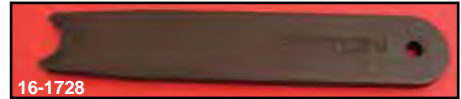
**Jims Pushrod Cover Clip Tool** allows installation and removal of pushrod tube clips on all Twins. Made of black delrin. This tool will not slip on main pushrod cover clips.

VT No. 16-0384

**Jims Tappet Test Stand Adapter** for 1984-98 Twins.  
**Note:** Adapter for use with tester on Evolution Style tappets that bleed down.  
VT No. 16-1863



**Sifton Pushrod Cover Compressor Tool** allows removal and installation of pushrod clip.  
VT No. 16-1728



**Pushrod Cover Compressor Tool** pushes against top rocker box to allow one hand operation.

VT No. 16-1052



**Sifton Pushrod Adjusting Wrench** eliminates the need for 3 hands, dual wrench holds 2 outer nuts. The inner is tightened with a separate wrench, fits 7/16" hex nuts and is fully adjustable for solid tappets.

VT No. 16-0819

**Jims Tappet Position Holding Tool** for all 1991-up Twin Cam and 2000-up XL engines. This tool allows the tappets and anti-rotation pins to be safely and accurately stored for proper reinstallation. Tappet locations are clearly referenced on the tool, which also serves to protect the tappets from damage when removed from engine.  
VT No. 16-1031



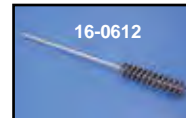
## Rocker Arm



**Rocker Arm Bushing Reamer** fits Big Twin and Sportster Arms by Jims.  
VT No. 16-1804



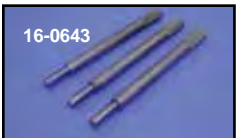
**Cast Fin for Repair** cut to fit and weld in!  
VT No. 11-1710



**Rocker Arm Bushing and Roller Bearing Puller** for 1957-up Big Twin and XL. Replaces 95760-57.

**VT No. Item**  
**16-1848** Puller  
**16-0673** Installer  
**16-0612** .554 Ball Hone

## Valve Guide



**Valve Guide Driver Tool Set.** Three sizes of drift valve guides for Sportsters, 74's and 45's. Includes 5/16", 11/32", and 3/8" valve guide drive.

**VT No. Type**  
**16-0132** V-Twin  
**16-0643** Jims



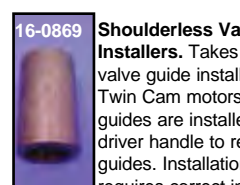
**VT No. Fits**  
**16-0403** 1948-79 Big Twin Kit  
**16-0404** 1980-84 Big Twin Kit  
**16-1745** 1985-up Big Twin and XL Evolution Kit  
**16-0405** 1957-84 XL Kit  
**16-0133** 1948-79 Big Twin Tool, Black, only  
**16-0134** 1957-84 Sportster and 1981-83 Big Twin  
**16-1746** 1984-up Evolution Tool

**Valve Guide Flex Hones** used to finish valves guides. Made from 180 grit silicon carbide to ensure smooth finish.

**VT No. Size Models**  
**16-0759** 10mm Shovelheads  
**16-0760** 8mm Evolution and XL



**Valve Guide Seal Installer** installs valve guide seals to proper height without damage, for Shovel. OEM 35103. VT No. 16-0870



**Shoulderless Valve Guide Remover and Installers.** Takes the guess work out of valve guide installation on all Evolution and Twin Cam motors. Insures that the valve guides are installed to proper depth. Use driver handle to remove or install valve guides. Installation of shoulderless guides requires correct installation socket.

Installation Socket	Driver Handles	Driver Handles Fits
VT No. 16-0869	—	Evolution
16-0321	16-0322	2005-up Twin Cam



**Valve Guide Driver and Sockets** install shoulderless 83-up XL and Evolution

guides to correct depth. Includes three sockets and one driver.

VT No. 16-0422

VT No.	Size	VT No.	Size
16-0761	.310	16-0769	.343
16-0762	.311	16-0770	.344
16-0763	.312	16-0771	.376
16-0764	.313	16-0772	.377
16-0765	.314	16-0773	.378
16-0766	.340	16-0774	.379
16-0767	.341	16-0775	.380
16-0768	.342	16-1860	7 mm



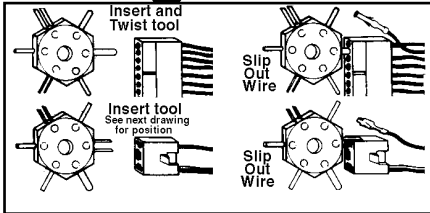


# Wiring Tools



**Pin and Receptacle Extractor** for Molex style connectors.

VT No.	Type
16-1258	Pin
16-1259	Receptacle



**Wire Terminal Tool** replaces 97362-71, depresses terminal lock tabs in disassembly of factory wiring harness.  
VT No. 16-0959



**Spark Plug Wire Tool** strips 7 and 8 mm ignition wire, crimps spark plug and distributor terminals.  
VT No. 16-0514



**Jims Ignition Switch and Fork Lock Tool** used to make installing or removing the ignition switch and fork lock a easy process.  
VT No. 16-1179



**Ignition Switch Housing Tool** will align the ignition switch housing as the retaining screws are being torqued. Use for proper alignment of switch knob with housing. Use on all 2003-13 FLT models and 2002-up V-Rods.

VT No.	Year	Type
16-0318	2003-13	Jims
16-0319	2003-up	Jims
16-0017	2003-13	VT
16-0003	2003-13	VT
16-1137	2014-up	Jims
16-1265	2014-up	VT



**Wire Terminal Tool** crimps factory style wire end.  
VT No. 16-0710



Deutsch Pin Tools.	VT No.	Size	Color
	16-0087	20	Red
	16-0088	16	Blue
	16-0089	14	Green



**Removal Tool Set** for Deutsch HD10, HD20, HD30 Connectors.  
VT No. 16-0090



**Deutsch Terminal Crimping Tool** is designed to correctly crimp Deutsch Connectors. Replaces 39965.  
VT No. 16-1295

# Deutsch Tools



**VO Scope Tool** allow the technician the ability to inside mot any hole that is larger than a 1/4". This is a live remote video with the following features high resolution, auto focus, color camera and 2 1/2" full color viewing monitor. Equipped

with a sealed, fluid proof, flexible 24" long 6mm diameter cable, high output LED illumination with dimming control. A mirror used to see 90 degrees and a magnet for picking up steel parts weighing less than 1/4 lb. Used for checking inside cylinders, cylinder heads, etc.

VT No 16-0385



**Deutsch Terminal Tool** use with stamped type terminals  
VT No. 16-0476



**Deutsch Terminal Tool** use with solid type terminals  
VT No. 16-0475



**Wire Removal Terminal Tools.**

VT No.	Style
16-1618	Mate-N-Lock
16-1619	Molex MX-150
16-0478	Delphi-Packard Weather Pack

# Service Scan Tool



**Computer Diagnostic Service Tool.** This tool is capable of diagnosing trouble codes for all 1994-99 computer controlled Big Twins. Available as a standard tool that includes scan tool, software cables, adapters, A/C power adapter and instruction manual. For USA 110v 60 cycles application.

VT No.	Item
16-5000	Scan tool
16-5002	Delphi System Cartridge 2001-2002 FXST



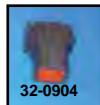
**Daytona Twin Tec Twin Scan II** for all 2001-up fuel injected models using Delphi system and 2003-06 carbureted models with 12 pin ignition modules reads and cleans diagnostic trouble codes from engine control unit, turn signal/security module, speedometer and tachometer. The Twin Scan II is especially useful for diagnosing hard to find intermittent trouble codes. The motorcycle can be operated while the unit is installed under normal condition (no trouble codes) the unit will store data of the last hour of operation. If a trouble code is set the unit automatically stop logging data 30 minutes after the code is set. This allows you examine data before and after the code was set. The Twin Scan II interfaces to a laptop PC minimum PC requirement is 300MHz Pentium running Windows 98/ME/XP with SVGA display and available USB port. Also available Twin Cam II and Tuning aid for Screamin' Eagle Race tuner includes all feature of Scan II but allows the tuner to analyze logged data and display front and rear cylinder air/fuel ratio and the required volumetric efficiency correction (in percent) with the same RPM rows and throttle position sensor columns used in the SERT tables. Twin Scan II+ includes WEGO IID dual channel wide ban exhaust gas oxygen sensor interface for logging AFR date along with engine date.

VT No.	Item	Fits
16-0376	Twin Scan 2	2001-12 with J1850 bus
16-0378*	Twin Scan II Plus	As Above
16-0379	Twin Scan 3	2011-u with CAN data bus

\*Note: Same features as Twin Scan II with the addition of extended data logging time, USB interface and waterproof construction.



# Electrical Connector



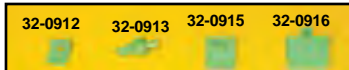
## Pin Housings, each.

# of Pins	OEM	VT No.
8	72108-94	32-0904
12	72109-94	32-0905



## Socket Housings, each.

# of Pins	OEM	VT No.
2	72112-94	32-0906
4	72114-94	32-0908
8	72118-94	32-0910
12	72119-94	32-0911



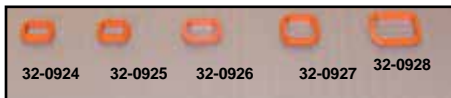
## Pin Housing Locks, 10 pack.

# of Pins	OEM	VT No.
2	72142-94	32-0912
3	72143-94	32-0913
4	72144-94	32-0914
6	72146-94	32-0915
8	72148-94	32-0916
12	72149-94	32-0917



## Socket Housing Locks, 10 pack.

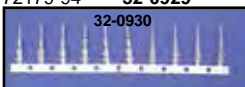
# of Pins	OEM	VT No.
2	72152-94	32-0918
4	72154-94	32-0920



## Deutsch Seal Rings

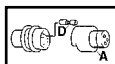
### Seal Rings, 10 pack.

# of Pins	OEM	VT No.
2	72172-94	32-0924
3	72173-94	32-0925
4	72174-94	32-0926
6	72176-94	32-0927
8	72178-94	32-0928
12	72179-94	32-0929



## Pin and Socket, 10 pack.

Item	OEM	VT No.
Pin	72190-94	32-0930
Socket	72191-94	32-0931
Pin	72990-01	32-7438
Socket	72991-01	32-7437



## Regulator Connector Fittings.

VT No.	#	OEM	Item
32-9092	A	72051-77	Regulator Plug
32-9090	D	74539-77A	Regulator Connector Socket



Deutsch	OEM#	VT No.	U/M
Pin	74190-98	32-6514	10
Socket	74191-98	32-6515	10
Pin blank	74195-98	32-6518	10



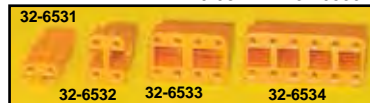
Pin Housing	OEM	VT No.	U/M
2	74102-98BK	32-6519	1
3	74103-98BK	32-6537	1
4	74104-98BK	32-6520	1
6	74106-98BK	32-6538	1
8	74108-98BK	32-6521	1
12	74109-98BK	32-6522	1



Socket Housing	OEM	VT No.	U/M
2	74112-98BK	32-6523	1
3 (Kit)	74113-98BK	32-6539	1
4	74114-98BK	32-6524	1
6 (Kit)	74106-98BK	32-6538	1
6 (Kit)	74116-98BK	32-6540	1
8	74118-98BK	32-6525	1
12	74119-98BK	32-6526	1



Pin lock	OEM#	VT No.	U/M
2	74142-98	32-6527	1
4	74144-98	32-6528	1
12	74149-98	32-6530	1



Socket lock	OEM	VT No.	U/M
2	74152-98	32-6531	1
4	74154-98	32-6532	1
8	74158-98	32-6533	10
12	74159-98	32-6534	1

Socket Housing replaces 4 socket for alternators. 72614-01. Black. Each.

## VT No. 32-7438



## Fuel gauge

2 Pin housing 72902-01BK 32-6535 2

**Namz O2 Enrichment Device.** Recommended for bikes with high flow air cleaner performance exhaust systems. Reduces engine operating temperature between 20 to 30 degrees. Simply plug in between oxygen sensors and wiring harness. Works with stock ECM. Sold in sets.

VT No.	Fits
32-6533	2007-08 FLT, 2007-11 FXST, FLST
32-6554	As Above with Stage 1 Kit installed
32-6555	2010-up FLT, 2012-up FXST, FLST with Stage 1

## Replacement Fuses for stock custom applications.

VT No.	Amps	Replacement OEM	Type
32-6561	1	72300-89	ATO
32-6562	3	72301-89	ATO
32-6563	5	72302-94	ATO
32-6564	10	72340-94	ATO
32-6565	15	72347-94	ATO
32-6566	40	72314-01	Maxi
32-6577		ATO Sealed Fuse Holder with leads	



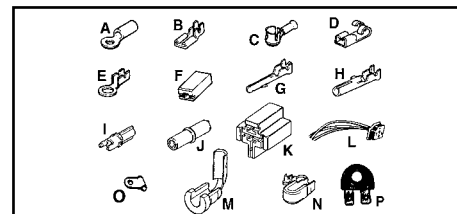
## Deutsch Terminal Crimping

Tool is designed to correctly crimp Deutsch Connectors.

Replaces 39965.

VT No. 16-1295

## Wire Terminals

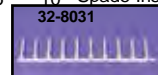
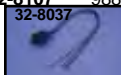


## Ring Type Terminals.

VT No.	#	OEM	U/M Item	Gauge
32-8015	A	9856	25 #6 eye	16-22
32-8016	A	9871	25 #6 eye	14-16
32-8017	A	9857	25 #10 eye	16-22
32-8018	A	9902	25 #10 eye	14-16
32-8019	A	9866	25 #10 eye	10-12
32-8020	A	9858	25 1/4" eye	16-22
32-8021	A	9862	25 1/4" eye	14-16
32-8022	A	9863	25 5/16" eye	14-16
32-8023	E	9945	25 5/16" eye	10-16
32-8101	A	9859	25 3/8" eye	16-22
32-8102	A	9864	25 3/8" eye	14-16
32-8103	A	9868	25 3/8" eye	10-12
32-8104	A	9892	25 5/16" eye	14-16

## Flag Type Terminals

32-8025	B	9904	10 1/8" Female Spade
32-9303	C	9905	5 Big Twin Neutral Switch
32-8027	B	9914	10 1/4" Female Spade
32-8028	D	9925	10 1/4" Right Angle Female Spade
32-8026	B	9930	10 3/16" Female Spade
32-8029	F	71774-77	10 Female Spade Insulator
32-8024	O	9901	25 5/32" Flag
32-8100	P	32604-78	10 Coil Adapter
32-8106		9907	10 1/4" Spade Insulator 16-22 gauge
32-8107		9885	10 Spade Insulator 16-22 gauge



## Amp Mate-N-Lock

### Pins and Sockets

32-8030	G	72039-71	10 Pin
32-8031	H	72038-71	10 Socket
32-8032	I	72043-71	10 Single Pin Insulator
32-8033	J	72044-71	10 Single Socket Insulator
32-8036	K	72046-79	1 Starter Relay Connection
32-8037	L	72047-71	1 Head Lamp Connection
32-9333	M	72501-74	1 Harness Bushing Straight
32-9334	N	72502-74	1 Harness Bushing Right Angle



## Amp Mate-N-Lock

### Connector Blocks.

VT No.	OEM	Type
32-8032	72043-71	Single Pin Insulator, 10 pk
32-8033	72044-71	Single Socket Insulator, 10 pk
32-9095	72035-71	2 Pin Insulator
32-9094	72034-71	2 Pin Socket Insulator
32-6547	72036-71	3 Pin Socket Insulator
32-6548	72040-71	3 Pin Socket
32-6549	70292-89	4 Pin Socket Insulator
32-6550	70291-89	4 Pin Socket
32-8034	72041-71	6 Pin Insulator
32-8035	72037-71	6 Pin Socket Insulator
32-6551	70287-81A	8 Pin Socket Insulator
32-6552	70288-81A	8 Pin Socket
32-9097	70294-87	10 Pin Insulator
32-9096	70293-87	10 Pin Socket Insulator
32-9033	72276-74	12 Pin Insulator
32-9034	72278-74	12 Pin Socket Insulator



## Amp 40 Series Connectors

32-6542	2 Wire Plug
32-6543	4 Wire Cap
32-6544	4 Wire Cap Housing





# Molex MX150 Wiring Connectors



**LED Gear Indicator Kit** features a chrome housing and a bright LED display. Kit control module, housing, and wire harness for easy plug and play installation. Fits 2007-up FLT, 2007-11 FXD, 2007-10 FXST, FLST and 2007-up XL models.  
VT No. 32-0296



**Front Turn Signal 36" Extension Harness** for all 2011-up FXST, FLST, and 2012-up FXD models with turn signals mounted under the handlebar switch housing. This extension harness will allow the installation of taller than stock bars and the relocation of turn signal assemblies. The only way to move the turn signals is to cut the turn signal wiring that is hard wired into the circuit board installed in the handlebar switch housing. This harness will allow you to cut the wiring, heat shrink the cut wire to prevent a short, solder on extension harness and simple connect the other end of the harness into the factory connector located under the fuel tank.  
VT No. 32-3601

## Molex Wiring Connectors

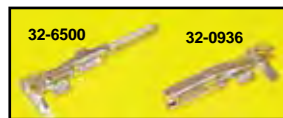
VT No.	OEM	Female Connectors	VT No.	OEM	Male Connectors
32-9673	72512-07BK	3 Position Black	32-9682	72511-07BK	3 Position Black
32-9697	72514-07GY	3 Position Grey	32-9694	72513-07GY	3 Position Grey
32-9675	72177-04BK	4 Position Black	32-9685	72175-07BK	4 Position Black
32-9677	72414-07BK	6 Position Black	32-9690	72188-07BK	6 Position Black
32-9678	72479-07BK	8 Position Black	32-9686	72478-07BK	8 Position Black
32-9691	72469-07GY	8 Position Grey	32-9687	72447-07GY	8 Position Grey
32-9679	72487-07BK	12 Position Black	32-9695	72488-07BK	12 Position Black
32-9692	72489-07GY	12 Position Grey	32-9688	72490-07GY	12 Position Grey
32-9680	72166-07BK	16 Position Black	32-9689	72177-07BK	16 Position Black
32-9693	72491-07GY	16 Position Grey	32-9698	72492-07GY	16 Position Grey
32-9681	72500-07BK	20 Position Black			
32-9699	72473-07	Blade Cavity Plugs			
32-9700	72169-07	16-20 Gauge			
32-9701	72168-07	16-20 Gauge			

Pack of 10  
Stamped Pins Pack of 100  
Stamped Sockets Pack of 100



**Auxiliary Lamp Wire Harness Kit** fits 1998-up FL when installing H-4 updated bulbs.  
VT No. OEM tem  
33-0082 69200441 Wire Harness  
33-0083 69200442 Wire Harness

# AMP Multi-Lock Wire Connectors



Pin Housing	OEM#	VT No.	U/M
AMP			
2	73102-96BK	32-6501	2
3	73103-96BK	32-6502	2
4	73104-96BK	32-6503	2
6	73106-96BK	32-6504	2
8	73108-96BK	32-6505	1

AMP Pin Socket	OEM#	VT No.	U/M
	73190-96	32-6500	10
	73191-96	32-0936	10

Socket Housing	OEM#	VT No.	U/M
AMP			
2	73152-96BK	32-6508	2
3	73153-96BK	32-6509	2
4	73153-96BK	32-6510	2
6	73156-96BK	32-6511	2
8	73158-96BK	32-6512	1

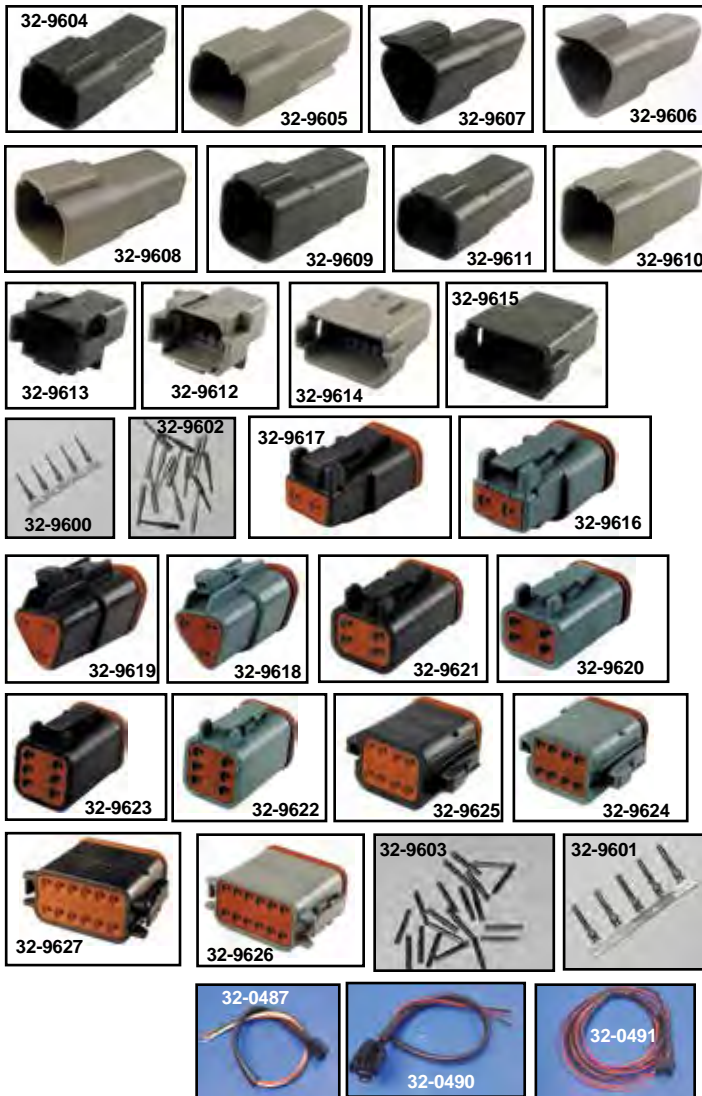
## AMP Wire Connectors

VT No.	OEM	Wiring Pin Housing
32-6501	73102-96BK	2 Position
32-6502	73103-96BK	3 Position
32-6503	73104-96BK	4 Position
32-6504	73106-96BK	6 Position
32-6505	73108-96BK	8 Position
VT No.	OEM	Wiring Socket Housing
32-6508	73152-96BK	2 Position
32-6509	73153-96BK	3 Position
	73154-96BK	4 position
32-6511	73156-96BK	6 Position
32-6512	73158-96BK	8 Position
32-6500	73190-96	16-20 Gauge (Pin Terminal Pack of 10)
32-0936	73191-96	16-20 Gauge (Socket Terminal Pack of 10)





# Deutsch Sealed Connector Components



Deutsch Connector includes wire harness to be spliced to replacement as listed.

VT No.	Type
32-0485	1996-up Side Switch
32-0487	Headlamp
32-0490	Starter Relay
32-0491	Tail Lamp
32-0492	Module End



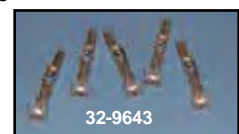
Deutsch Sealed Connector Components		
VT No.	OEM	Wiring Receptacles
32-9605	72102-94BK 72142-94 72172-94	2 Wire Receptacle, Seal and Wedgelock-Black
32-9604	72122-94GY 72142-94 72172-94	2 Wire Receptacle, Seal and Wedgelock-Grey
32-9607	72103-94BK 72143-94 72173-94	3 Wire Receptacle, Seal, and Wedgelock-Black
32-9606	72123-94GY 72143-94 72173-94	3 Wire Receptacle, Seal and Wedgelock-Grey
32-9609	72104-94BK 72144-94 72174-94	4 Wire Receptacle, Seal, and Wedgelock-Black
32-9608	72124-94GY 72144-94 72174-94	4 Wire Receptacle, Seal and Wedgelock-Grey
32-9611	72106-94BK 72146-94 72176-94	6 Wire Receptacle, Seal, and Wedgelock-Black
32-9610	72126-94GY 72146-94 72176-94	6 Wire Receptacle, Seal, and Wedgelock-Grey
32-9613	72108-94BK 72148-94 72178-94	8 Wire Receptacle, Seal, and Wedgelock-Black
32-9612	72128-94GY 72148-94 72178-94	8 Wire Receptacle, Seal, and Wedgelock-Grey
32-9615	72109-94BK 72149-94 72179-94	12 Wire Receptacle, Seal, and Wedgelock-Black
32-9614	72129-94GY 72149-94 72179-94	12 Wire Receptacle, Seal, and Wedgelock-Grey
32-9600	72693-06	Stamped Type Pin Terminal Pack of 100
32-9602	72192-98	Solid Type Pin Terminal Pack of 100
Wiring Plugs		
VT No.	OEM	
32-9617	72112-94BK 72152-94 72172-94	2 Wire Plug, Seal, and Wedgelock-Black
32-9616	72132-94GY 72152-94 72172-94	2 Wire Plug, Seal, and Wedgelock-Grey
32-9619	72113-94BK 72153-94 72173-94	3 Wire Plug, Seal, and Wedgelock-Black
32-9618	72133-94GY 72153-94 72173-94	3 Wire Plug, Seal, and Wedgelock-Grey
32-9621	72114-94BK 72154-94 72174-94	4 Wire Plug, Seal, and Wedgelock-Black
32-9620	72134-94GY 72154-94 72174-94	4 Wire Plug, Seal, and Wedgelock-Grey
32-9623	72116-94BK 72156-94 72176-94	6 Wire Plug, Seal, and Wedgelock-Black
32-9622	72136-94GY 72156-94 72176-94	6 Wire Plug, Seal, and Wedgelock-Grey
32-9625	72118-94BK 72158-94 72178-94	8 Wire Plug, Seal, and Wedgelock-Black
32-9624	72138-94GY 72158-94 72178-94	8 Wire Plug, Seal, and Wedgelock-Grey
32-9627	72119-94BK 72159-94 72179-94	12 Wire Plug, Seal, and Wedgelock-Black
32-9626	72139-94GY 72159-94 72179-94	12 Wire Plug, Seal, and Wedgelock-Grey
32-9601	72694-06	Stamped Type Socket Terminal Pack of 100
32-9603	72193-98	Solid Type Socket Terminal Pack of 100

## Delphi Connectors



### Delphi Wire Connectors

VT No.	Male Connectors With Wire Seals
32-9634	1 Wire
32-9635	2 Wire
32-9636	3 Wire
32-9637	5 Wire
VT No.	Female Connectors With Wire Seals
32-9639	1 Wire
32-9640	2 Wire
32-9641	3 Wire
32-9642	5 Wire
32-9638	Replacement Wire Seals Pack of 10
32-9643	Stamped Male Crimp Terminals Pack of 50
32-9644	Stamped Female Crimp Terminals Pack of 50





# Throttle by Wire "Plug-n-Play" Harness



**Throttle-by-Wire "Plug-n-Play" Wiring Harness** is a no brainer when adding taller handlebars. It is longer than stock and is one size fits ALL handlebars. Simply remove the OEM harness and plug ours in. It comes complete with OEM connectors installed for simple installation. Fits all 2008-up Touring models.  
**VT No. 32-6651**



**Namz On Board Power Port** with dust cover. Plugs into on board diagnostic port. Fits 1994-11 FLT models.

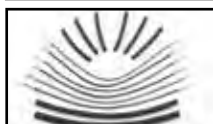
**VT No. 32-6579**



**Headlamp Static Harness.**  
**VT No. 32-1721**



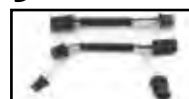
**Turn Signal Kits.**  
**VT No. Length**  
32-6672 4"  
32-6673 8"  
32-6674 12"  
32-6675 15"



**Front Turn Signal Extension Harness** used for installing taller handlebars on all models when keeping turn signals mounted on handlebar switch housings on 1996-12 models.

No crimping required. De-pin factory harness and connector and install new extension harness.

**VT No. Extension Over Stock Length**  
32-6557 4"  
32-6558 8"  
32-6559 12"  
32-6560 15"



**Ready to Install Handlebar Extension Harnesses**  
• All the items needed to successfully extend the wiring to a set of handlebar switches.

Harnesses include both male and female Molex terminals crimped on each end. Feature color matching wire as per original harness.

**Fit 2011-up FXST, FLST, 2012-up FXD, 2014-up XL**

32-6676 +4"  
32-6677 +8"  
32-6678 +12"  
32-6679 +15"

**Fit 2007-10 FXST, FLST, 2007-11 FXD, 2007-13 XL**

32-6656 +4"  
32-6657 +8"  
32-6658 +12"  
32-6659 +15"

**Fit 1996-06 FXST, FLST, FXD, XL**

32-6664 +4"  
32-6665 +8"  
32-6666 +12"  
32-6667 +15"

**Throttle by Wire Handlebar Wiring Extension Kits** includes factory type connectors for easy assembly.

32-6688 +8" 2016-up FLT, FXST, FLST  
32-6689 +15 2016-up FLT, FXST, FLST

## Wire Clamp



28-0721



28-0710

**Nylon Tie Straps, 25 pack**

Chrome	Black	Length
25 pack	100 pack	
28-0720	28-0710	4"
28-0721		7"
	28-0711	7 3/4"
	28-0712	15 1/8"

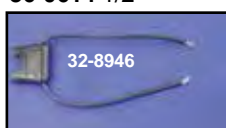


36-0614

**Chrome Handlebar Wiring Clips** snap into handlebars with holes at bends, 10 pack.

**VT No. Inner Diameter**

36-0613 3/8"  
36-0614 1/2"



32-8946



32-0410

**In-Line Fuse Holder** has 6" long wire leads.

**VT No. Type**  
32-0410 Fuse  
32-8946 ATC Type



**Vinyl Coated Cable Clamps** can be mounted to frame fork or fenders to help route cable wires or brake lines. Mount hole available in 1/4" or to fit #10 screws (.200).

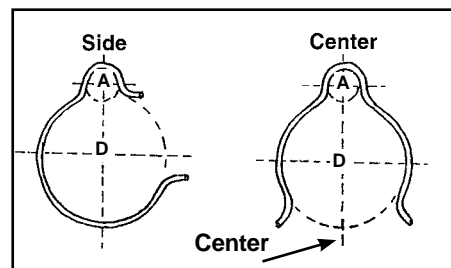
VT No.	Qty.	Inner Diameter	Mt. Hole
37-8128	10	1/4"	1/4"
37-8129	10	3/8"	1/4"
37-8132	10	1/2"	1/4"
37-8904*	25	7/16"	.200"
37-0832	5	3/8"	.200"
37-8905	Each	1/2"	.200"

\*Note: Uncoated.



**Zinc Plated Strap Clamps** with 9/32" hole, sold in 10 pack.

VT No.	U Size
37-9139	7/16"
37-9141	9/16"
37-9142	5/8"



"D" is the diameter of the tube it fits. "A" is the size wire/loom that is secured.



37-8680

**Control Cable and Wire Clamps** are zinc plated spring steel, packs of 10.

**VT No. D-Tube Size A-Wire Size**

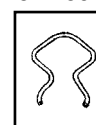
37-8677	1" Side	3/16"-7/32"
37-8678	1 1/4" Side	3/16"-7/32"
37-8679	1" Center	3/16"-7/32"
37-8680	1" Center	5/16"
37-8681	1 1/8" Center	5/16"



**Chrome Billet "G" Clamps** to hold wiring or line, 5 packs with 7/16" screw.

**VT No. Clamp Tube Size Finish**

37-1506	1/4"	1 1/16"	Alloy
37-1500	1/4"	1 1/16"	Chrome
37-1501	7/16"	1 1/8"	Chrome



**Stainless Handlebar Wiring Clip** attaches wire to bars, at stock hole locations or can be drilled, 10 pack.

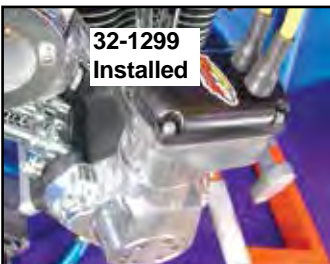
**VT No. 32-0343**



# Magnetos



32-1299  
Installed



32-1299  
Installed



32-1296



32-1299



32-1253



32-1251



32-1255

**Joe Hunt H-4 Automatic Advance Vertical Magnetos** for Big Twins features include H4 automatic advance for easier starting and hotter spark, aluminum cam cover in either natural or polished finish (no frame, pipe, or-brake pedal modification are required) and rare Earth magnets that never need to be recharged.

VT No.	Fits	Finish
32-1296	1970-92	Natural
32-1250	1970-92	Polished
32-1251	1993-99	Natural
32-1252	1993-99	Polished
32-1299	TC-88 Carburetor Models Only	Natural
32-1253	TC-88 Carburetor Models Only	Polished
32-1254	TC-88 with S&S Gear Drive	Polished
32-1300	TC-88 with S&S Gear Drive	Natural
32-1255	1970-92	Drive
32-1275	1993-99	Drive

32-0169

**1966-69 Big Twin Distributor Mount Clamp Kit** includes zinc plated clamp, stud, O-ring and nyloc nut.

VT No. Item

32-0169 Kit

12-0547 Stud only, 5 pack



**Fairbanks 1/2 Scale Magneto**  
Model. Pewter construction.  
VT No. 48-1675



**Magneto Assembly** with right hand rotation features internal female hex drive on rotors to fit all Joe Hunt, Morris and Fairbanks Morse drive units.

VT No. 32-1311

## Magneto Rebuilds



**Magneto Rebuilds.** Our Motor Shop will completely rebuild Joe Hunt, Fairbanks Morse or Morris Magnetos. We stock the most complete selection of replacement components.

VT No. 60-1957

**Got a Good Body with Good Magnets...  
We Can Rebuild!**



**Forged Aluminum Magneto Cap** features a recessed design to hold gasket in place and features a natural finish with Burkhardt logo. VT No. 32-0284



48-2292



48-1772



48-0472



48-1603

**Cloth Patches** available. Sold as a pair.

VT No. Item

48-2292 Vertical Magneto

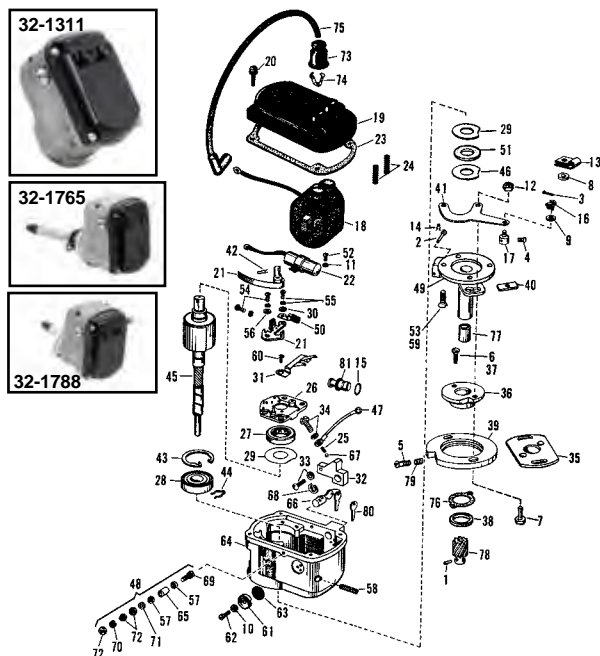
48-1772 Vintage Logo

48-0472 Rectangular Logo

48-1603 Burkhardt Logo

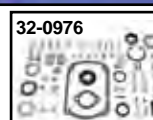


# Magneto



- 36-0513 92077-62 Tach Cable 1965-1969
- 32-1348 Adapter Plate Set (3 pc)
- 14-0107 12023 Magneto Base Plate Seal
- 32-0976 Magneto Rebuild Kit
- 32-1045 Tag, Points, Condenser Kit
- 32-1346 Magneto Base and Gear
- 32-1807 Magneto Tach Plug Kit
- 32-0971 Drive Kit
- 32-1057 29534-55A Condenser
- 12-0181 29562-55 Bearing Set
- 29563-55
- 12-1114 Race
- 13-9208 Coil Springs, 10 pack
- 32-7784 Lighting Capacitor
- 32-0116 Points and Condenser Kit
- 15-1020 Top Gasket
- 15-0972 Magneto Neoprene Cap Gasket
- 32-0064 Screw Kit
- 32-1038 Metal Morse Tag
- 32-1081 Kill Button
- 32-1563 Kill Button Kit, 1959-70
- 32-1082 Bearing Kit
- 32-1102 Drive 1971-80
- 32-1247 Rotor and Magneto Shaft Assembly
- 32-1255 Angle Drive
- 32-1347 Base 1971-80
- 32-1490 Magneto Base
- 32-1664 Adapter Plate
- 32-0823 Cast Base
- 32-1284 Terminal Kit
- 32-1293 Magneto Base Mount Kit
- 32-1345 Magneto Base Kit
- 32-1298 Magneto Body
- 37-1030 Magneto Advance Screw
- 32-1425 Magneto Name Tag
- 32-1314 Insulator Block
- 32-0269 Rotor Kit
- 32-1146 Kill Switch Kit
- 32-1232 Magneto Ignition Points and Condenser Kit
- 32-1453 Kill Switch Kit
- 32-1563 Kill Switch Kit
- 32-1766 Vent Cap Kit (2)
- 32-0283 Magneto Drive Assembly
- 32-1356 Magneto Screw Set

- | VT No.  | #  | OEM       | Description                             |
|---------|----|-----------|---|
| 32-0029 | 1  | 255       | Pin, Drive Gear                         |
| 12-1112 | 2  | 491       | Pin, Tachometer Plug                    |
| 37-8660 | 3  | 510       | Cotter Pin 1/16 x 1/2                   |
| 32-1027 | 5  | 1074W     | Screw, No. 8-32 x 7/8 Fillister         |
| 32-1029 | 7  | 3791      | Bolt, 1/4-28 x 3/4 Hex Head (2)         |
| 37-1020 | 8  | 6107B     | Washer, 5/16 x 1 1/16 x 1/8             |
| 37-1021 | 9  | 6165      | Washer, 3/16 x 3/8 x 1/32               |
| 37-1022 | 10 | 7010      | Lockwasher, No. 6                       |
| 37-8917 |    |           | Lockwasher, No. 8, and Screws, 25 pack  |
| 37-1024 | 12 | 7683      | Nut, 1/4-28 (2)                         |
| 31-1031 | 13 | 9958      | Clamp, on tappet guide                  |
| 31-1030 |    | 9994      | Clamp, on crankcase stud                |
| 31-1032 | 14 | 11024     | Spring Clip, tachometer plug pin        |
| 14-0506 | 15 | 11110     | O-ring, tachometer plug                 |
| 13-0157 | 16 | 27291-32  | Spring, wire block                      |
| 2658-5  | 17 | 27450-36  | Wire Block, magneto control             |
| 32-0716 | 18 | 29524-55A | Coil                                    |
| 32-0645 | 19 | 29530-55A | Cover, Black, each                      |
| 32-0644 |    |           | 29530-55A Cover, Clear, each            |
| 32-1564 |    |           | 29530-55A Cover, Red, each              |
| 37-1025 | 20 | 29531-55  | Screw, magneto cover (4)                |
| 32-0119 | 21 | 29533-55A | Circuit Breaker Points Set              |
| 32-0122 | 22 | 29534-55A | Condenser Only                          |
| 15-0149 | 23 | 29550-55  | Magneto Cover Gasket                    |
| 32-1800 | 26 | 29561-55  | Bearing Support, right hand             |
| 32-0026 | 27 | 29562-55  | Rotor Cam End Bearing                   |
| 32-0027 | 28 | 29563-55  | Bearing, rotor shaft end                |
| 37-1027 | 30 | 29565-55  | Contact Screw Washer (2)                |
| 32-0028 | 32 | 29590-62  | Primary Insulator Block Kit for ground  |
| 37-1028 | 33 | 29591-62  | Insulating Block Screw and Washer Set   |
| 37-1029 | 34 | 29593-62  | Ground Wire to Block Screw and Washer   |
| 32-1292 | 35 | 29600-48  | Magneto Base Adapter Plate              |
| 32-0646 | 35 | 29600-62  | Magneto Base Adapter Plate              |
| 32-0515 | 36 | 29600-65C | Magneto Base Adapter Plate              |
| 37-1030 | 37 | 29601-48  | Magneto Adapter Screw (2)               |
| 14-0528 | 38 | 29603-48  | Timer Seal Ring Housing (5)             |
| 32-0516 | 39 | 29604-65  | Magneto Advance Lower Adapter Plate     |
| 37-1031 | 40 | 29607-62  | Washer, magneto adapter (2)             |
| 36-0514 |    |           | Tach Cable Driven Gear                  |
| 31-0485 | 41 | 29607-65  | Magneto Control Arm                     |
| 31-1033 | 42 | 29620-55  | Breaker Spring Clip                     |
| 12-1113 | 43 | 29621-55  | Rotor shaft end Shaft End Snap Ring     |
| 31-1034 | 44 | 29622-55A | Rotor shaft end Spring Clip             |
| 32-2110 | 45 | 29623-55A | Magneto Rotor Assembly with Hex drive   |
| 37-1032 | 46 | 29624-55  | Washer, rotor shaft end                 |
| 32-0079 | 47 | 29625-55  | Ground Terminal Wire                    |
| 32-0080 |    | 29625-62  | Ground Terminal Wire                    |
| 32-0081 | 48 | 29626-55  | Ground Terminal Assembly                |
| 32-0082 | 49 | 29626-62  | Drive Housing and Screws                |
| 32-0036 | 50 | 29628-55  | Wick and Holder                         |
| 32-0037 |    | 29629-55  | Breaker Arm Wick                        |
| 14-0166 | 51 | 29630-55  | Rotor Shaft End Seal                    |
| 15-1539 |    | 29631-55  | Magneto Gasket Kit                      |
| 37-1033 | 52 | 29632-55  | Condenser Mount Screw                   |
| 2884-6  | 53 | 29632-66  | Magneto Adaptor Plate Screw Kit         |
| 37-1035 | 54 | 29633-55  | Breaker Arm Screw and Washer (2)        |
| 37-1036 |    | 29633-62  | Breaker Arm Screw and Washer (2)        |
| 37-1037 | 55 | 29634-55  | Breaker Arm Contact Screw and Washer    |
| 37-1038 | 56 | 29635-55  | Breaker Arm Washer                      |
| 37-1039 | 57 | 29635-62  | Ground Terminal Washer (2)              |
| 37-1040 | 58 | 29636-55  | Coil Set Screw (2)                      |
| 37-1041 | 59 | 29632-62  | Taper Screw Set (4)                     |
| 37-1042 | 60 | 29638-55  | Safety Gap Plate Screw                  |
| 32-1002 | 61 | 29639-55  | Vent Cover                              |
| 37-1043 | 62 | 29640-55  | Vent Cover Screw                        |
| 32-1018 | 63 | 29641-55  | Vent Screen                             |
| 32-1229 |    |           | Mount Kit                               |
| 32-1019 |    | 29642-55  | Magneto Housing                         |
| 32-1801 |    | 29642-62  | Magneto Housing                         |
| 32-1022 | 65 | 29645-62  | Ground Terminal Bushing                 |
| 32-0073 | 66 | 29646-62  | Ignition Ground Lock & Keys Kit         |
| 32-1037 | 67 | 29647-62  | Ground Switch Ball                      |
| 32-1033 | 68 | 29648-62  | Ground Lock Retainer Clip               |
| 37-1046 | 69 | 29657-62  | Ground Terminal Screw                   |
| 37-1047 | 70 | 29658-62  | Ground Terminal Lockwasher              |
| 37-1048 | 71 | 29659-62  | Lockwasher, ground terminal, int. tooth |
| 37-1044 | 72 | 29660-62  | Nut, ground terminal (3)                |
| 15-0154 | 76 | 32522-37  | Adapter Plate Gasket                    |
| 15-1031 | 76 | 32522-37  | Adapter Plate Gasket                    |
| 10-0717 | 77 | 32525-36A | Bushing, drive housing                  |
| 32-0198 | 78 | 32531-36  | Drive Gear                              |
| 32-0077 | 80 | 71626-62  | Ground Switch Lock Key                  |
| 32-1034 | 81 | 92077-62  | Tach Plug and O-Ring                    |





# Magnetos



**Magneto Assembly** fits Big Twin Overhead Valve 1936-69.

VT No.	Item	Brand
32-1765	Adjustable	BH
32-1452	Adjustable	JH
32-1301	Solid	JH

**Distributor Hold Down Clamp** fits 1965-69 BT.

VT No.	Finish
32-0135	Zinc
32-1342	Chrome

## For Sportsters



**Magneto.**

VT No.	Year	Brand
32-1276	1957-64	Direct Drive
32-0285	1965-70	Direct Drive
32-1869	1957-70	Burkhardt
32-1302	1971-80	Joe Hunt
32-1305	1971-80	Burkhardt
32-1863	1971-80	Burkhardt
32-1346	1957-70	Shaft Assembly
32-1680	1957-70	Shaft Assembly, cad
32-1358	1971-80	Shaft Assembly

**Shaft Assembly**

VT No.	Year	Base
32-1490	1957-70	Base
32-0579	1957-70	Shaft



**Flathead Magneto** fits 1930-73 45 1936-48 Big Twin SV.

**VT No. Item**

32-1788	Burkhardt
32-1276	Burkhardt
32-1297	Hunt
32-1741	Indian
32-1490	Base Drive Assembly
32-1137	SV Drive Assembly
32-1294	SV Shaft features snap ring groove and hex drive



**1973-92 Big Twin Nose Cone Magneto Assembly.** Full kit includes Joe Hunt magneto. Head has a vertical Burkhardt drive. Features adjustable manual advance.

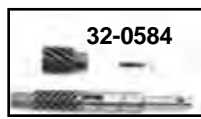
**VT No. Item**

32-1973	Complete Assembly
32-1860	Burkhardt Cover & Magneto Drive Assembly



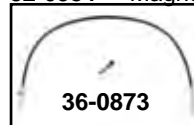
**Joe Hunt Magneto.** Order related mount plates separately.

VT No.	Item
32-1311	Magneto Head
32-1303	Magneto Head without shaft, JH
32-1298	Magneto Head, JH
32-1290	Magneto Assembly
32-1803	Burkhardt Housing, 1970-84
32-1210	Shaft Kit, 1941-69
32-1970	Shaft Assembly Kit
32-1317	Gear Set
32-0971	Drive Kit, 1970-92
32-1357	Drive Cam Gear
32-0971A	Gear Set



**Cad Plated Components**

VT No.	OEM	Item
32-0577	29600-62	Adapter Plate
32-0580	29604-65	Magneto Adapter Advance Ring
32-0582	29600-65C	Magneto Mount Base
32-0583		Replica Magneto Drive Shaft Assembly
32-0584		Magneto Drive Shaft and Gear Kit



**XLCH Tachometer Cables and Gears.**

VT No.	OEM	Item	Years	Type
36-0873		Set		Gear and Cable
36-0514	92063-63	Gear	1962-70	Magneto
36-0513	92065-67A	Cable	1965-69	Magneto
36-2575	92062-65A	Cable	1965-69	XLH Dist.
36-0990	92065-70	Cable	1970-73	XLH-XLCH
36-2549	92097-71	Drive	1971-80	XLH-XLCH
12-1400	25517-71	Drive	1971-80	Gear for Cam
36-0991	92065-74	Cable	1974-80	XLH-XLCH
36-2573	As Above	Cable	Stainless	XLH-XLCH
36-0999	+6"	Cable	1974-80	XLH-XLCH





# Battery Maintenance



**Dyna Charge Monitor.** The DCM-1 evaluates voltage in a charging system and indicates whether system voltage is too low or high. Unit is designed for 12 volt systems and features LED indicators. VT No. 32-9088



**Battery Hydro-meter** is a great tester for cycle batteries because of its small size. VT No. 16-0864



**"Activator" Battery Filler** attaches to any standard acid pack tube. Positive thumb release valve absolutely controls acid flow. No acid spills, burns or holes in clothing. VT No. 16-0037



**Custom Battery Cable Kit** includes 25' cable, (20) 1/4" terminals, (12) 5/16" terminals, (8) 3/8" terminals, 40 pieces black heat shrink and 12 pieces red heat shrink. Available with clear or black cable.

VT No.	Item
32-1350	Clear Kit
32-1351	Black Kit
16-0351	Crimping Tool



**Jims Main Drive Gear Case Seal Installer** ensures correct alignment and installs seal to the correct depth without damaging seal. Fits 1986-2006 FLST, FXST, 1991-2005 FXD, 1985-2005 FLT. VT No. 16-1028



16-1792



16-1870

**Super Smart Battery Tender** constantly monitors battery without the damaging effects of a trickle charger. Initial charge brings battery up to full charge then converts to a float charger, keeps a 12 volt battery at 13.6 volts.

VT No.	Type
16-1792	12 volt
16-1870	12 volt, Junior Tender
16-1794	Snap Cord



**Deka Power Sports Advanced Battery Charging System.** A 12 volt 2.0 amp automatic battery tender for both AGM and lead acid batteries. Features LED indicator lights. Reverse polarity protection, spark free operation and automatic switch to float mode. VT No. 16-0086



**AGM Battery Tender Lightweight Charger (Power Tender).** 6 amp features ring type terminals without quick disconnect. Available for standard lead/acid batteries or sealed AGM batteries. 12 volt batteries. VT No. 16-1875



**Battery Booster Cable Set.** 10 feet in length. 10 gauge in size. VT No. 16-0350

## The First Catalog!



**Spring 1968 Catalog, 12 pages!**

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16-1390

**V-Twin Inner Cam Bearing Tool** safely installs the inner cam bearings to the proper depth in the case without damaging bearings. VT No. 16-1390



**Rocker Arm Shaft Adjusting Tool** for use on Knucklehead models. VT No. 16-0001



# Bushing-Race Pullers



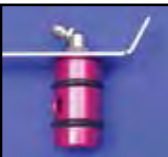
**Wheel Race Puller.** Replaces service tool 33071, for hubs with tapered races 1973-99. All models.

**VT No. Item**  
**16-0425** Puller and Installer  
**16-0065** Driver



**Cross Arm Puller** is 1" square bar 4 3/4" long slotted, with 3/8" - 16 bolts, use any size bolt to pull gears and sprockets that have 2 tapped holes, or use with bearing separator 16-0602.

**VT No. 16-0499**



**Wheel Bearing Greaser.** Fitting and spigot greases 1973-99 tapered bearings without removing seals, use existing seal spacer or purchase separately.

**VT No. Item**  
**16-0803** Tool  
**44-0303** Collar

## 4-Speed Transmission Tools



**Big Trans Stud Installer Tool** for 1936-86 4 and 5-Speed Softail.  
**VT No. 16-0719**



**Mainshaft/Drive Bearing Press Tools.**

VT No.	OEM	Fits	Press
<b>16-0105</b>	33428A	1979-84 BT 4-speed	Shaft
<b>16-0036</b>	34734	1979-90 BT 5-speed	Seal
<b>16-0028</b>	34810	1984-90 XL	Drive
<b>16-0057</b>	34733	1977-84 Big Twin	Countershaft
<b>16-1755</b>	35820-86	1986-90 XL	Countershaft
<b>16-0117</b>	34735	1936-38	Gear



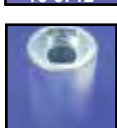
**2000-up Wheel Bearing Puller and Installer Tools.** Use on all 2000-up Twins. 16-0561 includes arbor to pull 3/4", 1" and 25mm sealed bearings.

VT No.	Item	Fits
<b>16-0561</b>	Puller and Installer	2000-up (18 pc)
<b>16-0732</b>	Puller and Installer	2000-06
<b>16-0558</b>	Puller and Installer	2000-06
<b>16-1370*</b>	Puller	2007-up
<b>16-1371*</b>	Installer	2007-up
<b>16-1641</b>	Washer Puller Tool	

**\*Note:** Requires 16-0732 tool also for use.



**Mainshaft Starter Clutch Gear Puller** for 1936-84 4 Speed model.  
**VT No. Brand**  
**16-0712** V-Twin  
**16-0740** Jims



**Mainshaft Ball Bearing Lock Nut Wrench** replaces 94635-41A. Fits 1940-up Big Twin models. Handle is not included.  
**VT No. 16-0116**



**Adjustable Reamers** use to fit I.D. on new bushings.

VT No.	Years	Fits
<b>16-1798</b>	1941-85	BT Main Drive Gear
<b>16-1799</b>	1936-84	BT-XL Kicker Shaft
<b>16-0878</b>	1936-57	BT Brake Cross Shaft
<b>16-1801</b>	1936-84	BT Clutch Release Shaft



**16-0558 Shown in use**



**Wheel Bearing Wrench** removes the slotted lock nut on spoke wheels. Sportster and 1967-72 Big Twins. Replaces 94630-67.

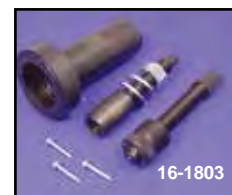
**VT No. Type**  
**16-0155** V-Twin with Handle  
**16-0657** Jims with 1/2" Drive



**Bushing Puller Tool** will extract bushings in blind holes of cam covers.  
**VT No. 16-0231**

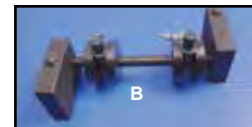
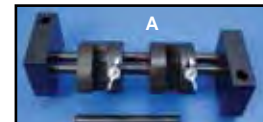


**Jims Rear Wheel Compensator Bearing Remover/Installer Tool** used to remove or install the ball bearing in rear pulley on all 2008-up FLT models. Tool will center and guide the bearing for proper installation.  
**VT No. 16-0315**



**Big Twin Mainshaft Seal Remover and Installer** replaces 95660-42. Use to install and remove main seal. This tool will push seal in as flat and straight as possible to .050 below housing for a no leak fit.

VT No.	Years	Speed
<b>16-1803</b>	1936-76	4
<b>Additional Drivers for Above</b>		
<b>16-0702</b>	1977-86	4, (2.4 O.D.)
<b>16-0701</b>	1980-84	5
<b>16-0700</b>	1985-up	5



**Shifter Fork Gauge** is used to set and align shifter forks on Big Twin 4-speed models.

VT No.	Jims	#	Years
<b>16-0121</b>	<b>16-0641</b>	A	1939-78
<b>16-0120</b>	<b>16-0642</b>	B	1979-84

## Countershaft Sprocket Nut Tool

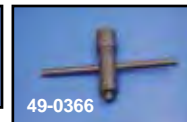
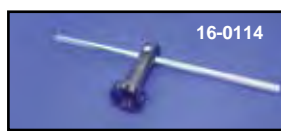


**4-Speed Transmission Arbor** replaces clutch hub nut to allow test rotation with 1/2" drill.  
**VT No. 16-1274**



**Countershaft Sprocket Lock Nut Wrench** features an extra long two piece design inner collar which will retain wrench to nut. Fits 1936-2005 Big Twins, 1 1/2" hex, 4 and 5 speed models.

VT No.	OEM	Brand
<b>16-0821</b>	94660-37A	V-Twin
<b>16-0054</b>	99660-37A	V-Twin
<b>16-1505</b>	Collar	V-Twin
<b>16-0757</b>	94660-37A	Jims 1/2" Drive



**Big Twin Countershaft Sprocket Nut Tool** is a factory style tool.

VT No.	Models	Use
<b>16-0114</b>	1937-84	4-Speed Big Twin 4th Gear Sprocket Nut
<b>16-0901</b>	All	Handle for above
<b>16-0823</b>	1941-73	45
<b>49-0366</b>	1936-40	Big Twin



# 5 & 6 Speed Transmission



**Big Twin Mainshaft Seal Remover and Installer** replaces 95660-42. Use to install and remove main seal. This tool will push seal in as flat and straight as possible to .050 below housing for a no leak fit.

VT No.	Years	Speed
16-1803	1936-76	4
<b>Additional Drivers for Above</b>		
16-0702	1977-86	4, (2.4 outer diameter)
16-0701	1980-84	5
16-0700	1985-up	5



**Jims Right Side Drive Transmission Trap Door Puller Tool.** Removes access door on all right side drive transmissions.  
VT No. 16-1356



**Transmission Main Drive Gear Nut Wrench Tool.** Use to remove the 2 1/4" hex nut from main drive gear which secures the rear drive trans pulley. Use with 1/2" drive ratchet. Use on all 2006-up Dynaglide and 2007-up FXST-FLT models.

VT No.	Brand
16-1359	Jims
16-1261	Sifton



**5-Speed Main Drive Gear Seal Installer Sets** seal to proper depth with transmission assembled. By Jims.  
VT No. 16-0664



**Shifter Shaft Sleeve Tool** fits 5 and 6 Speed transmission.  
VT No. 16-1664



**Countershaft Support Plate Tool** fits 1991-up 5-speed Sportster.  
VT No. 16-1756



**Transmission Door Puller Tool.** Fits 1957-90 XL and 1952-56 K.  
VT No. 16-0139



**Jims Transmission Countershaft Bearing Tool** will install and remove the closed end countershaft bearing on 5 and 6 speed Big Twin transmissions without using a press or tapping with a transmission shaft. Fits 1984-up FXST, 1986-up Flstn 1984-1994 FXR, FLT 1999-UP

VT No. 16-1883



**Cruise Drive 6-Speed Maindrive Gear Remover Tool** removes the main drive gear from the main bearing correctly while in the transmission case. This eliminates the need of an arbor press and the risk of case damage. For use on all Twin Cam 6-Speed Cruise Drive models and all 2006 Dynaglide and all 2007 to present Twin Cam models.

VT No. 16-2130



**Jims Transmission Door Removal Tool** use this tool to pull complete door with gears and shafts from transmission. Use on 2006-up Dynaglide and 2007-up FXST-FLT models.

VT No. 16-1358



**Jims Main Bearing Installer Tool.** Allows proper installation of transmission case main bearing by holding bearing square to its bore. Use on 2006-up Dyna and 2007-up FXST-FLT models.

VT No. 16-1355



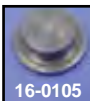
**Big Twin 5-Speed Transmission Shift Pawl Adjuster Tool Set** fits mid 1992 and later. Includes a tool to loosen the jam nut on the pawl adjuster and the other to adjust the shifter pawl set. Replaces 41184.

VT No. 16-0646



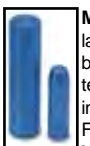
**Jims 5-Speed Transmission Main Drive Gear Tools.** Use 16-0994 to remove and install main drive gear and install main bearing. Use 16-0718 for remove main drive bearing. Both tools can be used without removing transmission case. Use on all 5 or 6-Speed 1980-up Big Twins.

VT No.	Type
16-0994	Main Drive Gear Installer
16-0718	Main Drive Bearing Remover



**Mainshaft/Drive Bearing Press Tools.**

VT No.	OEM	Fits	Press
16-0105	33428A	79-84 Big Twin 4-speed	Shaft
16-0036	34734	79-90 Big Twin 5-speed	Seal
16-1767	37842	1991-up Big Twin-XL	Drive



**Main Drive Gear Seal Installer** allows installation of main drive gear oil seal on assembled transmission to proper depth. The protective sleeve included is used for protecting inner bearings of main drive for installation. For 2006-up FXD and 2007-up FLST.

VT No. 16-1363



**Big Twin Mainshaft Primary Bearing Race Remover and Installer** for use on all 1984-up Big Twins, replaces 34902.

VT No.	Brand
16-1645	Sifton
16-0877	Jims



**Cruise Drive 6-Speed Maindrive Gear and Bearing Remover/Installer Kit** for servicing the main drive gear or the main bearing on the latest 6-Speed transmission. This precision tool removes or installs both parts correctly without damaging the case. Use on all Twin Cam 6-Speed Cruise Drive models, 2006 Dynaglide and all 2007-up Twin Cam models.

VT No. 16-2131



**Jims Main Drive Gear Installer Tool.** This tool will hold the main drive gear square to its bearing bore for proper main

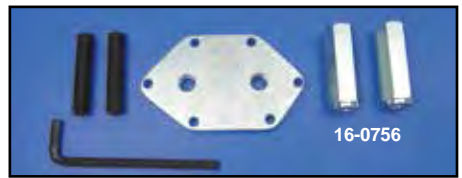
drive gear installation. Use on 2006-up Dynaglide and 2007-up FXST-FLT models.

VT No. 16-1350



**Jims Main Drive Gear Bearing and Seal Installer.** This tool will hold bearings and seal square to its bore for proper installation and will also allow both to be installed to proper depth. Use on all 2006-up Dynaglide and 2007-up FXST-FLT models.

VT No. 16-1353



**5-Speed Transmission Door Remover and Installer** removes and replaces the door bearings Saves time as the complete transmission does not have to be dismantled allowing the mainshaft and countershaft clusters to remain in place for use when installing 5-Speed kicker kit.

VT No.	Item/Brand
16-0756	V-Twin Door Remover and Installer
16-0663	Jims Remover Only
16-0731	Jims Installer Only
16-0672	Bearing Remover/Installer



**Cruise Drive 6-Speed Trap Door Bearing Remover/Installer** will accurately install a lubed ball bearing into the transmission trap door. Also removes bearing without error and can be performed on a work bench, no need for an arbor press. Use on all Twin Cam 6-Speed cruise drive models, 2006 Dynaglide and all 2007-up Twin Cam models.

VT No. 16-2132



**Jims Transmission Assembly Vise Stand** assists in the assembly of transmission gears and shafts. This tool holds the shafts in perfect alignment while protecting them from damage. Use on all 2006-up 6-speed transmissions.

VT No. 16-1029



# Primary



**Outer Primary Cover Starter Bearing Removal Tool** removes 9063 Torrington Needle Bearing for Big Twin and XL covers. **VT No. 16-0717**  
**Note:** This tool will also remove the 35961-52 Bearing in Countershaft Gear (Late) 4 Speed Big Twin, and also the 4-Speed Sportster Clutch Gear.



**Big Twin Primary Drive Locking Tool** is used as a wedge type device to hold the primary drive gear while the proper torque is applied without damaging the primary gear. Constructed of nylon, OEM# 41214.  
**VT No. 16-0650**



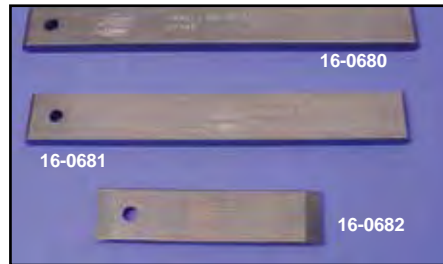
**Ratchet Plate Riveting Fixture** securely aligns plate to drum while setting rivets on 1971-79 XL model clutch drum.  
**VT No. 16-0165**



**Starter Jackshaft Seal Installer Tool** will easily allow alignment and installation of starter jackshaft seal (OEM#12066) without distortion or damage to seal. For 1994-06 Big Twins except 2006 Dynaglide.  
**VT No. 16-1373**



**Inner Primary Cover Bearing and Seal Remover Installer Tool** safely removes and installs inner primary bearing (OEM# 9135) without damage to the new bearing by pushing on the outer perimeter of the bearing. Removes and installs inner primary and seal that the transmission mainshaft passes through (OEM#12052A). For L1984-06 FXST/FLST; 85-up FLT/FLHT/FXR/FXD/FXDWG.  
**16-1367** 1984-06  
**16-1027** 2007-up



**Primary Locking Bars** use to lock primary for servicing.

VT No.	Use
<b>16-0680</b>	4-Speed BT's and 5-Speed FXST
<b>16-0681</b>	5-Speed FXR-FLT
<b>16-0682</b>	1991-up Sportster and Buell®
<b>16-1357</b>	2007-up Dyna
<b>16-0327</b>	2007-up FLT



**Primary Plug Wrenches** for Sportster models.

VT No.	OEM	Years
<b>16-0158</b>		1971-84
<b>16-0985*</b>	33186	1971-up
<b>8862-1</b>	Evolution	1986-up
<b>8862-1T</b>	Evolution	1986-up

\*Note: Uses 3/8 socket handle



**Clutch Adjusting Gauges** are used to find the correct distance between the outer drive plate and outer releasing disc for 1971-83 Sportsters, 1936-67 early and 1968-84 late Big Twins. Set of 3 tools. **VT No. 16-1807**



**Starter Pinion Gear Holder** Tool fits 9 and 10 tooth gears.  
**VT No. 16-0484**



**Starter Ring Gear Rivet Fixture** Tool removes the starter ring gear rivets from Big Twin clutch shells. For 2006-07 Big Twin except Dyna.  
**VT No. 16-1368**

# Belt



**Final Drive Tool** fits final drive pulley, so the nut can be properly set to torque specifications.

VT No.	Type
<b>16-0649</b>	Big Twin
<b>16-0588</b>	XL



**Belt Tension Gauge** designed to aid in properly adjusting belt tension on models with a secondary drive belt.  
**VT No. 16-1765**



**Calibrated Belt Tension Gauge.** Accurately measures belt tension.  
**VT No. 16-0589**

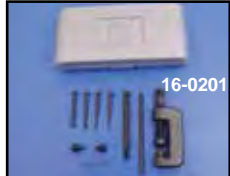
# Chain



**Standard Chain Puller** eliminates the annoyances of installing the master link in rear chain. Conveniently pulls chain halves together without loosening at rear wheel. Fits all sizes.  
**VT No. 16-0611**



**Chain Puller Tool.**  
**VT No. 16-1615**



**Diamond Chain Breaker** is excellent for cutting 530 heavy chain.  
**VT No. 16-0255**



**Link Press Tool** presses the side plates on all 530 O-Ring Chains.  
**VT No. 16-1729**



**Small Chain Breaker** replaces 12039X.  
**VT No. 16-0144**

**Chain Riveting Tool and Chain Breaker.**

VT No.	Item
<b>16-1740</b>	Breaker
<b>16-1741</b>	Riveting Tool Set
<b>16-0201</b>	Riveting Tool Set (V-Twin)





# Wheel Truing Stand



**Wheel Truing Stand** includes  $\frac{3}{4}$ " and 1" shafts.  
VT No. 16-1525

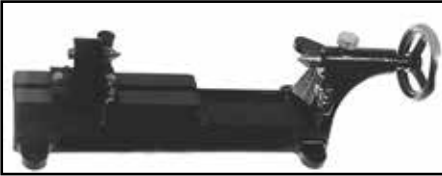


**Wheel Truing/Balancing Stand** includes tapered adapters and hub arbors.

VT No.	Type
16-0867	Full
16-1272	Bearings for centering



**Professional Wheel Truing Stand** includes roller stanchions to facilitate flywheels or crank shafts.  
VT No. 16-0799



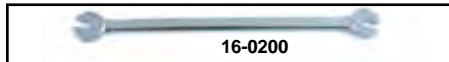
**Wheel Truing Fixture** of cast alloy construction. Adjustable width for all wheels, with or without axle in place. Order 16-0071 roller stanchions for use with flywheels and shafts or wheels with non-removable axle.

VT No.	Item
16-0586	Truing Machine
16-0071	Roller Stanchions



**Spoke Wrenches.** Available as multi-fit 6 jaw type or 8 gauge forged.

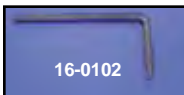
VT No.	Type
16-0164	6 Jaw
16-0200	1-piece, 8 gauge, forged
2693-1	Spoke Nipple Wrench, Parkerized
2662-1	Spoke Nipple Wrench, Cadmium



## Tire Tool



**Spoon Style Tire Iron.** 10 $\frac{1}{2}$ " long.  
VT No. 16-0694



**Wheel Lug Allen Wrench** fits all front and rear wheels 1935-72 FL models.



16-1789

VT No.	Item
16-0102	Lug Wrench
16-1730	Drive Socket
16-1789	"T" Lug Wrench

**FLT Wheel Lug Wrench** is a  $\frac{3}{8}$ " hex key shaft which fits all 1982-up FLT models. Sold each.

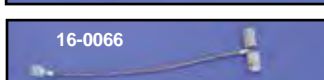
VT No. 16-0996



**Mini Air Compressor** powered by cigarette lighter socket or connects to battery with cables supplied. Features a compact design to fit inside a saddlebag.  
VT No. 16-1634



**Motion Pro Bead Popper** designed to break the bead on all types of motorcycle tires. Made of durable high impact plastic that will not scratch the wheel.  
VT No. 16-0542



**Tire Changing Tools.** Breezer Tools makes tire changing a breeze by its patented design which lifts the bead without bending the rim. Instructions included, use in conjunction with the breezer iron. Valve fishing tool combines core driver and deflating pin with full length cable to facilitate working valve through rim hole.

VT No.	Item
16-0163	8 $\frac{1}{2}$ " Forged Iron
16-1764	15" Forged Iron
16-0973	240 mm
16-0066	Valve Fisher



**Tire Pressure and Temperature Monitor.** The tire pressure and temperature monitor tool requires a pressure range of 10-70 PSI and a temperature range of -22 degrees to 185 degrees F.  
VT No. 16-9725



**Digital Tire Gauge.** 0-150 PSI.  
VT No. 16-0997



**Bead Breaker** is made of heavy duty cast iron.  
VT No. 16-1778



**Tire Bead Starter** is a safe way to start and seat beads on all tire sizes. The linked straps apply even seating pressure to tire beads

without compressed air. Tool is portable for on the go use and is simple and effective for even mounting a new 300 Series tire.

VT No. 16-9016

## Brake



**Brake Drum Turning Arbor** for all 5-bolt Big Twin brake drums. Replaces 97280-60A.  
VT No. 16-0122



**Brake Caliper Piston Remover Tool** to aid in removal of piston from 2000-up front and rear caliper assembly. Replaces 43293A.  
VT No. 16-0541



**One Man Brake Bleeder** includes tubing and canister and complete instructions.  
VT No. 16-1784



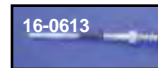
**Front Low Pressure Master Cylinder Bleeder Covers** will allow one person to bleed brake lines or to check system for leaks and can drain the entire system to replace brake fluid.

VT No.	Year
16-7319	1972-81
16-7320	1982-95
16-7322	1996-98



**Flex Hone for Rotor** designed to produce a swirl or cross hatch pattern with a non-directional finish which reduces friction induced breaking noise: medium grit. Designed for low speed operation using a  $\frac{3}{8}$ " drill. Available for master cylinder bore.

VT No.	Use
16-0640	Rotor
16-0785	$\frac{5}{8}$ " Master Cylinder
16-0786	$\frac{1}{2}$ " Master Cylinder
16-0787	$\frac{3}{4}$ " Master Cylinder



**Brake Cylinder Hone.**  $\frac{3}{4}$ " to 3"  
VT No. 16-0613



**Snap Ring Pliers** are specially designed with long reach fingers for use on master cylinders.  
VT No. 16-0788



# Clutch Tool



**Clutch Assembly Service Tool** will safely disassemble and assemble the clutch shell assembly and also remove and install the clutch hub from the bearing. Safe removal and installation of clutch shell ball bearing (OEM# 37906-90) with no damage to new bearing.  
**VT No. 16-1366**



16-0967



16-0156



16-0410



16-0059

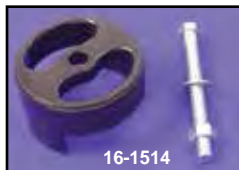


16-1769

**Clutch Compressor Tools** allows disassembly of clutch pack.

VT No.	Year	Model
16-0410	1941-84	Big Twin
16-0967	1990-up	Big Twin
16-1769*	1991-up	XL's (Screw)
16-0156	1971-84	XL's
16-0059	1985-90	XL's

\*Note: Adapts 16-0967 to fit 1991-up XL.



16-1514

**Clutch Compression Tool** fits 1990-up Big Twin and 1991-up XL models.

**VT No. 16-1514**



16-1805



16-1849

**1990-up Big Twin Clutch Compressor Tool** features access windows to ease the removal and installation of snap ring, by Jims.

**VT No. Fits**

**16-1805** Big Twin

**16-1849** Adapter to fit 1991-up XL



**Jims Clutch Adjusting Tool** allows mechanic to quickly and accurately tighten the clutch adjusting screw jam nut without having the screw change position. Includes wrench and correct hex key. Use on all 1985-up Big Twins.

**VT No. 16-1030**



2556-1



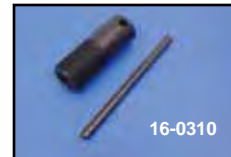
16-0113



16-0115



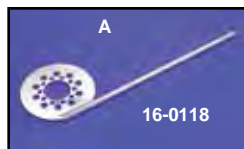
16-0961



16-0310

**Clutch Hub Pullers.** 16-0113 pointed type pulls clutch hubs on 74" and 45", motor sprockets on 74" and XL transmission sprocket on XL, also rotor assembly on 74" and 80" Big Twin, 1970 and later. 16-0115 swivel style fits over clutch push rod on 1970-85 Big Twin so there is no need to remove the kick cover.

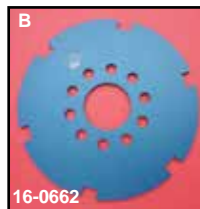
VT No.	Item	Type
2556-1	1936-40	Point
16-0113	1941-84	Point
16-0115	1941-84	Swivel
16-0961	1984-up Wet Clutch Type	
16-0310	Primo Brand Pro Clutch	Big Twin



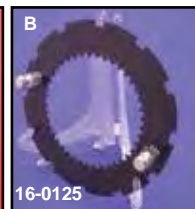
16-0118



D



16-0662



16-0125



E

**Clutch Drum Locking Tools** for removing clutch hub and motor nuts.

VT No.	#	Year	Model
16-0118	A	1941-84	Big Twin
16-0662	B	1941-84	Big Twin, Jims
16-1775	E	1984-89	Big Twin
16-0125	B	1952-70	XL
16-0159	D	1956-84	XL
16-0992	C	1971-84	XL



**Gasket Locator Tool (3 Pc Set)** will align primary, cam and transmission end cover gaskets, to prevent misalignment and oil leaks.

**VT No. 16-1362**

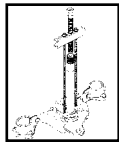
## For V-Rod



16-1667

**V-Rod Clutch Hub Holder** by Jims.  
**VT No. 16-1667**





**Lower Neck Bearing Puller Set** includes cross arm puller, rods and lower puller claw. Simply remove roller from old bearing, install claw and turn puller.  
VT No. 16-0073



**Fork Bearing Installer Tool** fits over 1" stem allowing bearing to be "driven" on.  
VT No. 16-0724



**Hex Top Fork Nut Socket** has 3/8" drive, rubber protector on inside for Glide Forks, 35mm. By Jims.  
VT No. 16-0670



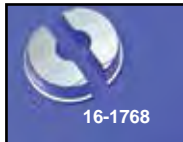
**Socket Wrench** is designed for easy removal and installation of stock 1 3/8 hex flat top fork tube plugs. Installed O-Ring eliminates damage to top of plug. Black oxide.  
VT No. 2317-1



**Fork Tube Spring Retainers and Pin Wrench Kit** includes 2 retainers for 1952-72 XL and pin wrench for installation removal of retainers.  
VT No. 7700-3



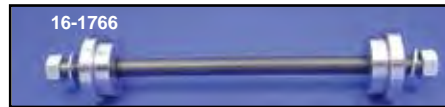
**FXSTS Fork Stem Bearing End Play Setup Wrench.** Offset Handle allows for proper clearance of fuel tank and other accessories.  
VT No. 16-0444



16-1768



16-0895



16-1766



16-0065

**Steering Head Bearing Tools** fit 1988-up FXST, 1982-up XL, 1992-up FXDB-FLT to remove or install races.

VT No.	Item
16-1768	Remover
16-1766	Installer
16-0065	Driver Handle for A
16-0895	Driver Handle Adapter, 1992-up FLT-FXD

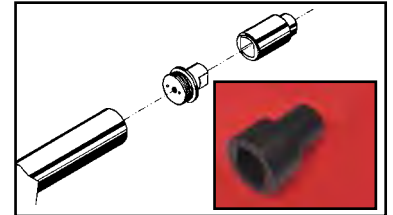


**Fork Stem Nut Wrench** fits FLT.  
VT No. 16-1977



**Fork Pre-Load Assembly Tool** allows pre-load to be set on 41mm forks during assembly.  
VT No. 16-0745

## Fork



**Fork Tube Plug Tool** has a special socket which fits 1948-up Glide Fork Plug, 1/2" drive.

VT No.	Brand
16-0630	V-Twin
16-1008	Jims



**Fork Spring Compressor Tool** puts pressure on top fork plug to compress spring to ease in assembly.

VT No.	Type
16-1009	Jims
16-1025*	Jims

\*Note: Use with 16-1009 for extended length fork tubes.



**Fork Cap Wrench.**  
VT No. 16-1034



**Fork Tube Assembly Stand Tool.**  
VT No. 16-2600

## Fork Seal Drivers



**Fork Seal Driver** for 41 mm bushing and seal installation.  
VT No. 16-0557



**Seal Driver Kit** quickly installs seal without damage, includes 16 adapters for seals up to 3 3/8" diameter. Includes special adapters for "shielded" seals.  
VT No. 16-0069



**Bearing Race and Seal Driver** includes driver handle and 6 machined aluminum collets to fit most bearings.  
VT No. 16-0505



16-0055



16-0056



16-0964

**Fork Seal Installer.** Installs bushing and seal without damaging components.

VT No.	OEM	Use
16-0055	34190	1983-up FXRT 1983-up XR 1984-up FX-XL
16-0056	34634	1984-Later FLT-FXWG
16-0964	36583	1987-up FXR-FXRS, 88-up XL



**49mm Fork Seal and Dust Shield Installer Tool** installs the lower leg 49mm fork seal squarely into the bore with no damage to the lip seal surface. Also installs dust shield cover. It is a two-price design to aid in some assembly applications.  
VT No. 16-1369



**Adjustable Split Fork Seal Driver Set** use on all 35mm, 39mm and 41mm forks. Includes seal drive and three seal guides.  
VT No. 16-0074



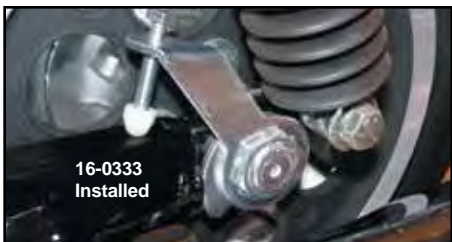
**Duo-Glide Nut Double Ended Wrench** used for removing and installing crenulated nuts and dust covers with internal thread.  
VT No. 16-1344



# Swingarm



16-0329 in use



16-0333 Installed



Axle lock tool. This tool holds the axle in place and prevents movement of adjustment while you torque the rear axle on 2002 and up FLT

**3rd Hand Axle Locker Tool.** If you have noticed, as you are torquing down the axle nut after you set the proper belt tension, (Deflection) the welded axle nut will move to the low side of adjuster cam. This movement will allow the belt to lose adjustment. Now with **3rd Hand Axle Tool**, you will not need to find a helper to hold the nut or yourself having to reach around the tire and hold the nut from moving. Just place this tool over the welded nut on left side with the neck portion of tool resting over the swing arm. Hand screw the adjusting screw to take up any slack in tool. Torque the axle nut from right side knowing that the welded nut will not turn allowing the belt to lose it's adjustment.

VT No.	Brand
16-0329	Jims
16-0333	VT



**Rear Swing Arm Section Bearing Remover/Installer** for use on 1986-99 FXST-FLST models.  
VT No. 16-0688



**Jims Powertrain Alignment Tool** aligns powertrain to proper position safely and easily on most touring models. Performing alignment service must be done when engine,

transmission or swing arm has been repaired or removed. This tool helps to provide the accurate alignment necessary for handling safety and performance. For 1993-97 FLHT; FLHR; FLHX and FLTR.

VT No. 16-1365



**Jims Rear Axle Nut Torque Adapter** for 2006-up FL Touring models. This tool is designed with a 1/2" drive receiver hole for inserting your torque wrench thus letting you torque the axle nut from an offset position. Removal of muffler is not required for use of this tool.

VT No 16-1906



16-1733



16-1734

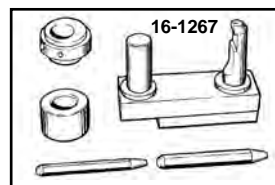
**5-Speed Swing Arm Tools** cleve block spreading tool facilitates installation of swing arms on rubber mount models. Swing arm assembly tool removes and installs swing arm pivot components.

VT No.	OEM	Item
16-1733	33805	Spreading Tool
16-1734	96200-80	Assembly Tool



**Hollow Axle Plug Tool** will give the correct center point required for safe vehicle alignment. Lube the o-ring ends of these tools and insert in left and right ends of axle on Dynaglide and XL models. Use on all 2008-up Dynaglide and XL models.

VT No.	Brand
16-0328	Jims
16-0332	Sifton



16-1267

**Rear Sprocket Rivet Tool.** This fixture will support sprcket for riveting. Fits 1930-48 U, 1957-78 XL, 1947-72 FL.

VT No 16-1267

# Suspension



**Shock Absorber Tool.** Replaces 97010-52A to simplify shock absorber disassembly or assembly by holding spring in compression while disassembling parts. Includes 97019-52A block.

VT No.	Item
16-0079	Tool
16-1847	Bolt for Above



**Shock Tool** for use with 3/8" ratchet drive. Fits 1989-up Softail.  
VT No. 16-0917



**Shock Tool Set** is a five piece set of each of the numbers listed below.

VT No.	#	OEM	Model
16-0136	A-E	Complete	Set
16-0101	B	94820-75	1975-78 XL's Gabriel
16-0409	C	94409-78	1979-up Sportster
		94448-82	1979-up FXR-FLT
16-0408	A	94408-78	1982-up FL-FLH
		94444-82	1982-up FX-FXE
16-0100	D	94700-65	1952-74 Sportster
			1958-81 FL-FX Scissor Type
16-0748	E	94555-89	1989-up FXST-FLST
16-0954	F	94448-82A	1989-up ST, 1979-up XL-FXR



F



**Bead Breaker** will depress bead on mag or spoked wheels.  
VT No. 16-0570





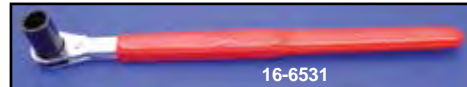
**Evolution Ratcheting Intake Manifold Wrench** features ball end allen bit end for flexibility in tight areas.

VT No. 16-5530



**Evolution Rocker Box Cover Ratcheting Wrench** features low profile to allow clearance between frame and engine, long handle for increases reach and replaceable bit.

VT No.	Item
16-6529	Wrench
16-6530	Replacement Bits



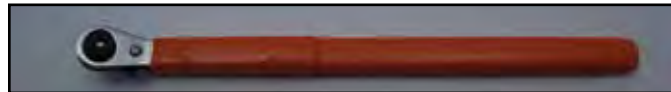
**Lower Rocker Box Wrench for Evolution and Twin Cam Models** is used to install and remove lower rocker  $\frac{7}{16}$ " mounting bolts.

VT No.	Fits
16-6531	Evolution
16-6532	TC-88



**Exhaust Bracket Wrench** used to remove and install front exhaust bracket bolts on all 1999-up TC-88 Dynaglide models.

VT No. 16-6538



**Speedometer Sending Unit Wrench** features a shortened  $\frac{3}{16}$ " ball end hex bit for removal or installation of hex screw used on all Big Twin models. Equipped with electronic sending units.

VT No. 16-6738



**Oil Pressure Gauge and Indicator Lamp Sending Unit Wrenches.** These reversible ratcheting wrenches are used to install and remove oil pressure indicator lamp or gauge sending unit on all FL Touring models 1999-up.

VT No.	Item
16-9723	Indicator Lamp
16-9724	Sending Unit



**Manifold-Side Car Wrenches** large type, heavy duty for shop use.

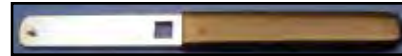
VT No.	OEM	Size	Use
16-0111	94536-18	1 $\frac{3}{4}$ "	Side Car
16-0110	94537-26	1 $\frac{7}{8}$ "	45 Manifold
16-0112	94538-30	2"	SV Manifold
16-0109	94538-48	2 $\frac{1}{8}$ "	Big Twin Manifold
16-0447		1 $\frac{5}{8}$ "	Panhead
16-0448	94538-48	2 $\frac{1}{8}$ "	Panhead



**Chrome "S" Wrench** is for  $\frac{5}{16}$ " &  $\frac{3}{8}$ " bolts.

VT No. 16-0734

# Wrench



**Evolution Rocker Box Cover Wrench** is designed to reach  $\frac{3}{16}$ " allen on Evolution Big Twins and Sportster models. Features a  $\frac{3}{8}$ " drive for use with torque wrench and a vinyl covered handle. VT No. 16-0220



**FLT Rear Axle Nut Ratchet Wrench** for 36mm axle nut. Low profile design allows access to rear axle nut without removal of exhaust system.

VT No. 16-9636



**Spark Plug Socket Set** features  $\frac{3}{8}$ " drive to fit 12 and 14mm plugs.

VT No. 16-0202



**Swivel Spark Plug Wrench** for all 12 and 14mm plugs. 180° rotation.

VT No. 16-0824



**Standard Spark Plug Wrench** 14mm type with bar handle fits under FL tanks.

VT No. 16-0825



**Twin Cam 24 Tooth Crankshaft Rotating Wrench** for use on all 2006-up Big Twins with 24T spline sprocket shaft to check engine timing and parts clearance.

VT No. 16-9280



**Three Piece Upper and Lower Valve Cover Wrench set** fits hex and clip style covers.

VT No. 16-1864



**Jims Oxygen Sensor Wrench.**

VT No.	Fits
16-2755	2012-up FXD front and rear, 2012-up FXST
16-2756	2012-up FXST rear only



**Open End Wrench**

VT No.	Size
16-0833	$\frac{9}{16}$ x $\frac{1}{2}$
16-0834	$\frac{3}{8}$ x $\frac{7}{16}$



**Jims Seat Mounting Screw Tool**

VT No. 16-1178



**11 Piece Open End and Box Wrench Set.**

VT No. 16-1744



48-0498  
80" UL



48-0470  
Knucklehead



48-0030  
1340 cc



48-0033  
Dual Cam



48-0025  
Panhead



48-0044  
Shovelhead



48-0048  
Shovelhead



48-0372  
XLCH 1971



48-1824  
45"



# HELI COIL



## Thread Repair Kit

### Heil-Coil Thread Repair Kits.

are individually packaged by size in either a special thread series or contain special length inserts for the specific applications listed below. All kits come with tap, installation tool, a quantity of size inserts and complete instructions.

### Heli-Coil Kits and Replacement.

Kits For HD	Thread Size	Length	Repair Kit	Inserts Per Kit	Inserts Only	Insert Qty.	Drill Size
Spark Plugs	18mm	.500	16-0906	24	16-0907	6	23/32
Pan D Rings	10-24	.285	16-0918	12	16-0919	12	13/64
Front/Rear Brake Drum Threads	3/8-20	.375	16-0921	6	16-0931	6	25/64
Head Bolt Threads	7/16-16	.656	16-0922	6	16-0932	6	29/64
XL Engine/Transmission Drain Plug, Early	1/2-13	.375	16-0923	6	16-0933	6	17/32
Drain PI Big Twin Chain case, XL Transmission	1/2-20	.375	16-0924	6	16-0934	6	33/64
Timing Plug	5/8-18	.325	16-0925	6	16-0935	6	41/64
Case Bolt and Gen.	5/8-24	.469	16-0926	12	16-0936	12	21/64
Big Twin Trans Cover w/Locking Insert	5/8-18	.469	16-0927	12	16-0937	12	21/64
Cam cover screw, tappet guide, oil pump stud and timer, and mounting threads							
	1/4-24	.500	16-0920	12	16-0930	12	17/64
	1/4-20	.375	16-0941	12	16-0944	12	25/64
	3/8-16	.562	16-0942	12	16-0945	12	25/64
	3/8-24	.562	16-0943	12	16-0946	12	25/64



**18mm Adapter Set** allows 14mm plugs to be used in earlier heads with 18mm spark plug threads.

VT No. 32-0057



**Spark Plug Hole Service.** Motors hop will HeliCoil 14 mm spark plug holes on head sets. 15 day turn around. time. Chose Heli-Coil only or Weld-Up and Heli-Coil.

VT No. Type  
60-0168 Heli-Coil  
60-0170 Weld/Heli-Coil



**Universal Thread Gauge Set** identifies USS, Metric, pipe size and spark plug size, four piece set. VT No. 16-1763



**14-18mm Spark Plug Hole Thread Chaser** renews damaged threads 13/16. Removes carbon and corrosion with a few turns. Allows firm seating of plugs. Assures metal to metal contact for effective heat transfer.

VT No. 16-0603



**Die Tool and Tap Set.** 8 piece set is for special threads. Set includes headbolt tap tool, tap brake drum tool, tap tool, mainshaft die left hand tool, Spring Fork handlebar end tap, linkert tap tool 1/4" x 40", 1/4" die tool and tap set.

VT No.16-0187



**Heli-Coil Sav-A-Thread** repairs spark plug holes for 14mm short or long reach plugs on aluminum heads. Includes items pictured. No drilling necessary.

VT No. OEM Item  
16-0044 Kit, Complete  
16-0043 16725-66A 1/2" Insert, each  
16-0042 16725-75 3/4" Insert, each



### Special Taps and Dies.

VT No.	Thread	Use
16-0807	3/8" x 20	1930-72 Brake Drum
16-0809	5/16" x 32	Grease Fitting, 9851
16-0416	7/16" x 16	UL-VL-45 Head Bolt
16-0014	1/4" x 24	Timing and Transtop Die
16-0407	1/4" x 24	Die Set
16-1263	1/4" x 24 Tap	1931-35 H Bars
16-0904	13/16" x 24	1936-48 H Bars
16-0905	7/8" x 24	Bendix Adjuster Jet
16-0865	9/32" x 32	Timing Hole
2282-1	11/16"	Handlebar Tap
16-1262	5/64" x 24	Linkert
16-0271	1/4" x 40	Tap
16-0091	3/4" x 16	



**Dies** are round type adjustable to restore damaged or mistreated threads.

VT No. Type/Use  
16-0836 1936-84 Big Twin 1" x 24T  
FL-FLH Fork Stem  
16-0801 1971-84 FX-FXE, 54-85 XL  
7/8" x 24T Fork Stem  
16-0811 1936-84 Big Twin Mainshaft  
3/4" x 18 Left



**Fork Stem Die Holder.** Order die separately.

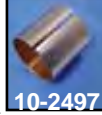
VT No. Item  
16-0272 Holder Only  
16-0051 Set  
16-0836 Die Only 1" x 24





# Bushing

10-2515	35316-41	Low Gear 45 Side Valve
10-2517	35320-41	Second Gear 45 Side Valve
10-0728	35322-38	38-58 Big Twin Mainshaft Third Gear
10-2516	35787-52	54-72 All XL's Countershaft 1st Gear
10-0752	35787-72	73-84 XL Countershaft 1st Gear
10-0729	35789-36	41-85 Big Twin 4-Spd Countershaft Low Gear
10-0730	35791-36	41-85 Big Twin 4-Spd Countershaft 2nd Gear
10-2547	36035-26	29-73 45" Countershaft Left
10-2490	36042-41	41-73 45" Countershaft Side Cover
17-9830	37436-36	36-84 Big Twin 4-Speed Mainshaft End Bushing
10-0753	37458 41	Clutch Gear 45 Side Valve
10-0751	37458-52	52-85 All XL Models Clutch Gear
10-0733	40520-63	77-up XL Shifter Shaft In Right
		Crankcase 66-up XL Shifter Shaft In Chain Cover
10-0740	41685-37	37-57 Big Twin Brake Backing Plate Cam
10-2496	—	Same as above .015 O/S
10-1256	42443-80	80-up XL Brake Pedal All
10-2497	47094-58	58-84 Big Twin Seat Post
8859-1	47581-29	29-73 45's Seat Post
7708-1	47583-36	36-57 Big Twin Seat Post
10-0741	47755-31	37-57 Big Twin Brake Crossover Shaft
10-2505	47757-52	75-78 XL Shifter Cross Shaft
		52-78 XL Brake Cross Shaft
10-2500	51925-37	37-64 Big Twin Seat Tee
10-2501	51925-65	65-80 Big Twin Seat Tee
10-0743	60593-74	74-85 FX 4-Speed Inner Primary Shifter



# Shim



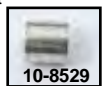
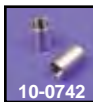
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**Shims.** Check list for proper applications.

VT No.	OEM	Fits
12-0700	6743	Armature .030 1930-57 Big Twin
12-0701	6743A	Armature .060 1930-57 Big Twin
12-0702	6750	Shifter Fork .005 1941-85 Big Twin 4-Speed
10-1257	6750	.007 As Above
12-0703	6752	Shifter Fork .015 1941-85 Big Twin 4-Speed
12-0711	6762B	Pushrod Cover 1941-up all Twins
12-0704	6767	Rocker Arm .005 1966-84 Big Twin
		Rocker Arm .005 1957-84 Sportster
12-0710	—	Same as above .007
12-0715	—	Same as above .015
12-0705	6769	Cam Shaft .007 #1, 3, and 4 Cams
		1957-85 Sportster, 1932-73 Flathead
12-0706	6770	Same as above .005
12-0716	6771	Same as above .015
12-0717	6773	Camshaft .005 #2 Cam 1957-85 Sportster, all 1932-73 Flatheads
12-0718	6775	Same as above .010
12-1258	6778	Same as above .015
12-0709	6802	Starter Crank 1954-79 Sportster
12-0712	23741-55	Sprocket shaft bearing .003 1955-84 Big Twin
12-0713	—	As Above .003 1952-76 All XL
12-0714	—	As Above .003 1977-up All XL
12-0708	43560-35	Wheel Hub Shim .007 1935-66 Big Twin
12-9917	—	As Above .015
10-1259	35404-74	Shift Lever Shim .030 1977-up

VT No.	OEM	Item
10-2498	413-30	30-36 74" 80" Right Case
10-2519	416-30	30-36 74" 80" Left Case
10-8524	662-29	30-36 Big Twin and 45 Timer Shaft
10-8525	662-30	30-36 Big Twin and 45 Cam Gear Shaft
10-8526	662-34VL	34-36 Big Twin and 45 Oiler Drive Shaft
10-0700	17428-57	66-up Big Twin 57-up XL Rocker Arm 8 pack
10-0760	24331-36	57-up XL 29-73 45" Std Pstn Pin, pair
10-0762	—	As above .005 Oversize
10-0763	24332-36	As above .010 Oversize
10-0756	24334-36	36-99 Big Twin Std Piston Pin, pair
10-0757	—	As above .002 Oversize
10-0758	—	As above .005 Oversize
10-0759	24335-36	As above .010 Oversize
10-0703	24641-36	36-99 Big Twin Oil Pump Shaft
10-0704	25581-36	41-69 Big Twin Crankcase Cover Gear Standard
10-2524	—	Same as above .005 Oversize
10-0705	25581-70	70-99 Big Twin Crnkse Cover Gear Standard
10-2525	—	Same as above .005 Oversize
10-0706	25582-36	41-54 Big Twin Cover Pinion Shaft Standard
10-2526	—	Same as above .005 Oversize
10-0707	25582-54	54-72 Big Twin Gear Cover Pinion Shaft Standard
10-0708	25582-73	73-92 Big Twin Gear Cover Pinion Shaft
10-2529	—	As above .005 Oversize
10-8536	25582-93	93-up Big Twin Gear Cover Pinion Shaft Standard
10-8556	—	As above .005 Oversize
10-0709	25586-37	57-up XL Cam Gear #1, 3, 4 Cams
		Cam Cover Front In L Ex Cam 74/80
		Side Valve, Front Exhaust Cam 45
10-2540	—	As above .005 Oversize
10-0731	25588-37	45" 74" 80" Cam Cover Rear Intake Cam Side Valve
10-0710	25588-57	57-90 XL Cam Gear #2 Cam Standard
10-2541	—	As above .005 Oversize
10-0711	—	57-90 XL Gear Kit #1-2-3-4 Standard
10-8538	25588-91	91-up XL Gear #2 Cam Standard
10-2507	25590-37	45" 74" 80" Cam Cover Rear EX Cam
10-2512	25591-37	74" 80" Pinion Shaft Side Valve Standard
10-2503	25593-37	Pinion Shaft 45 Side Valve Standard
10-0712	25593-57	57-76 XL Cam Cover Pinion Standard
10-2544	—	As above .005 Oversize
10-0713	25593-74	77-up XL Cover Pinion Standard
10-8268	25594-75	77-81 XL Brk Pedal Operating Shaft
10-2506	25595-37	Cover Front In Cam 45 Side Valve
10-8271	25595-52	52-56 K Exhaust Cam
10-0714	25597-36	36-54 Big Twin Crankcase Cam Gear Standard
10-2527	—	As above .005 Oversize
10-0715	25597-57	57-E84 XL Idler Gear Standard
10-2546	—	As above .005 Oversize
10-2552	25598-91	1991-up XL Inner Cam
10-2504	25599-37	74" 80" Side Valve Crankcase Cam Shaft
10-2495	25601-37A	45 Side Valve Crankcase Cam Shft Bush
10-0716	25785-30A	41-69 Big Twin Idler and Circuit Breaker Gear
10-0749	26431-76	77-90 XL Oil Pump Cover
10-0750	26489-75	77-90 XL Oil Pump Body
10-0742	27290-24	Linkert Throttle Shaft, pair
10-0717	32525-36A	36-39 Big Twin Circuit Breaker Housing
		56-69 XL Magneto Housing
		54-79 XL Kick Starter Shaft
10-0718	33099-52A	54-79 XL Kick Starter Shaft with Seal
10-0719	—	Kick Starter Shaft 45 Side Valve
10-2493	33101-32	Kicker Pedal All Twins
10-2494	33213-30	41-69 Big Twin Kick Start Shaft with Seal
10-0720	33288-37	50-85 Big Twin Mainshaft Starter Gear
10-0721	33438-50	4-Speed with Stock Gear
		As above .005 Oversize for Aftermarket Gear
10-2486	—	57-72 XL Starter Ratchet Gear
10-0722	33442-57A	73-79 XL Starter Ratchet Gear
10-0723	33442-73	89-93 Big Twin Prim Housing Starter Shaft
10-8527	33445-89	89-93 Big Twin Prim Housing Starter Shaft
10-8528	33446-89	52-69 FL-FLH Foot Shift Bracket
10-2502	33638-52	70-85 FL-FLH All FXWG-FXST
10-2511	33638-70	Foot Shift Bracket
10-8529	33713-85	87-up FLT Prim Housing Shifter Shaft
10-0724	34037-52	54-74 XL Shifter Shaft Shifter
		77-85 XL Shaft In Chain Cover
		75-76 XL Shift Pedal Shaft
10-2483	34037-75	(Small) Shifter Shaft 45 Side Valve
10-2518	34427-38	37-76 Big Twin Hand Shift Shifter Shaft
10-0732	34430-36	(Large) Shifter Shaft 45 Side Valve
10-2514	34432-38	41-79 Big Twin Shifter Shaft
10-0725	34435-52	52-79 Big Twin Pawl Carrier
10-0726	34498-52	84-up FXR All Shifter Shaft
10-2488	34632-84B	78 only, All XL Brake Pivot Shaft
10-0748	34898-79	65-85 4-Spd Big Twin Mainshaft Drive Gear
10-0727	35094-65	As above for Andrews Gear only
10-2487	—	





# Gasket

## COPPER HEAD GASKETS

GB No.	James	OEM
15-0739	—	11-30
15-0185	15-1084	16768-36
15-0228	15-1251	16769-36
15-0268	—	16770-36
15-1104	—	—

## CYLINDER HEAD GASKETS

GB No.	James	OEM
15-0574	—	469-15
15-0234	—	16768-39
—	15-1131	16770-36
15-0337	—	16765-53
15-0103	—	16770-48
15-0269	—	—
15-1241	—	—
15-0273	15-1011	16770-66
15-0104	15-1010	—
15-0266	15-0977	—
—	15-1442	—
15-1242	—	—
—	15-0599	Set
15-0366	—	16773-85
—	15-1082	16773-85
—	15-1132	—
—	15-1083	16773-85T
15-0643	—	—
—	15-1219	—
—	15-1443	—
15-1250	—	—
15-1298	15-1196	16775-99
15-0376	—	16775-99B
—	15-1222	16787-99
15-0272	15-1009	—
15-0257	—	—
—	15-0970	16665-86
15-0258	—	—
15-0366	15-1082	16773-86B
—	15-1083	—
—	15-1132	—
15-0643	—	—
—	15-1012	16769-57
15-0355	—	16769-57
15-0101	15-0973	16769-72A
—	15-1130	16769-73T
15-0102	15-0974	16769-73
15-0189	15-1015	16769-82

## CYLINDER BASE

GB No.	James	OEM
15-0412	15-0271	16774-21
15-1290	15-1227	—
—	15-0984	16774-86
15-1420	15-1121	—
15-0284	15-1133	16775-29
15-0725	—	16775-52
15-0107	15-0986	16776-48
15-0108	15-0987	16776-63
15-0109	15-0988	16777-48
15-0110	15-0989	16777-63
15-1289	15-1090	—
—	15-1440	—
15-1580	15-1087	—
—	15-1441	—
15-0222	15-0990	—
15-0235	15-0984	16777-83A
15-0735	15-1072	16774-94
15-0736	—	—
—	15-1247	—
15-0460	—	—
15-1534	—	16789-04

## ROCKER COVER

GB No.	James	OEM
15-0221	14-0673	6114
—	15-1194	16719-99
15-0259	—	16778-84A
15-0251	15-0707	16779-84A
15-1229	15-1245	16800-99X
—	15-1252	16779-84X
15-0252	15-0995	17355-84
15-0651	15-0996	17355-84A
15-0652	15-0999	17356-84A
14-0945	15-0997	17355-92
14-0946	15-1000	17356-92
15-0253	15-0998	17356-84
15-0254	15-1001	17358-84
15-0653	15-1002	17358-84A
—	15-1195	17386-99
14-0172	14-0620	17535-38
15-0075	—	17535-38
15-0076	—	17537-38
15-0077	—	17539-38
—	15-1004	17540-69A
15-0113	15-1136	17540-69
15-1218	15-0705	17540-69X
—	15-1213	17540-99X
—	15-1203	17591-99
—	15-1444	17591-99
—	15-1204	17592-99
—	15-1445	17592-99
11-0584	—	63815-99
15-0663	—	63858-49
15-0112	15-1003	17536-70
15-0640	—	Beaded
—	15-1134	17353-86
15-0260	15-0991	17353-86
—	15-0993	17354-86A
15-0386	15-1135	17354-86A
14-0933	15-0992	17353-89
—	15-1449	17353-04
—	15-0994	17354-89
—	15-1447	17362-07
—	15-1448	17393-07
—	15-1446	17695-07

## Fits

1930-35 74" .VL  
1939-73 45"  
1936-48 74" and 80" Side Valve  
1936-47 Knucklehead  
883-1200 XL .010

## Fits

Knucklehead Rocker Shaft  
1939-73 45"  
1936-47 Knucklehead, Teflon  
165cc  
1948-65 Teflon  
As Above Stock Type  
1948-65 Copper  
1966-84 Head Fire Ring  
1966-84 Head Teflon  
As Above Stock Type  
1966-84 Multi Layered Steel  
1966-84 Copper  
1966-84 3% Big Bore Teflon  
1984-99 80" Evolution Head, Blue Teflon (.062")  
As Above Graphite with Fire Ring  
As Above (.030") Teflon  
1984-99 80" Evolution Head, Teflon Coated (.045")  
As Above Graphite Stock Type  
As Above .045 Blue Teflon Fire Ring  
As Above Multi Layered Steel  
As Above Black Teflon Fire Ring  
1999-2000 Twin Cam 88  
1999-2000 Twin Cam 88 .045" graphite  
1999-up Twin Cam 95" (1550 Cylinders)  
As Above with Armor Coating  
1948-65 Panhead Fire-Ring  
86-2000 883 XL Fire Ring™  
86-87 1100 XL Blue Teflon  
As Above Fire Ring™  
88-2000 1200 XL Blue Teflon  
As Above .045"  
As Above .030"  
As Above Graphite  
1957-71 XL Teflon  
1957-71 XL Copper  
1972-E73 XL Copper  
1973-85 XL Teflon  
1973-85 XL Copper  
1973-85 1000 XL Copper (.045")

## Fits

1921-36 Big Twin SV and 1936-47 OHV  
As Above, Coated Metal  
1986-03 XL  
As Above Metal with Silicone Bead  
1929-73 45"  
1952-56 K model  
1948-62 Panhead; front  
1963-84 Panhead, Shovelhead; front  
1948-62 Panhead; rear  
1963-84 Panhead/Shovelhead; rear  
1948-62 Pan Metal, Silicone Bead  
1948-62 Pan Foam® Set  
1966-84 Shovel Metal, Coated  
1966-84 Shovel Foam® Set  
1966-84 3% Big Bore Shovelhead, (front or rear)  
1984-99 Evolution; front or rear  
1984-99 Evolution Metal with silicone bead (.017 thick)  
1984-99 Evolution 3% Big Bore Cylinders; front or rear  
As Above Paper Type without silicone bead  
As Above, 3% Big Bore Cylinders; front or rear, metal w/fiber  
2004-up XL

## Fits

1984-99 80 Evolution Top Rocker Cover Washer, Copper  
1999-up Twin Cam 88 Rocker Housing, Coated Metal  
1984-99 Evolution Lower Right with Silicone  
1984-99 Evolution Lower Left with Silicone  
1984-99 Evolution Lower Left and Right Metal with Rubber Coating  
As Above Paper with Silicone Beading  
1984-91 80" Evolution Lower Cork  
1984-91 80" Evolution Lower Rubber  
1984-91 80" Evolution Upper Rubber  
1992-99 80" Evolution Lower Rubber  
1992-99 80" Evolution Upper Rubber  
1984-91 80" Evolution Upper Cork  
1984-91 80" Evolution Inner Cork  
1984-99 80" Evolution Center Rubber  
1999-up Twin Cam 88 Rocker Cover, Coated Metal  
1938-47 Knucklehead Rocker Arm Shaft Housing  
1938-47 Knucklehead Rocker Cover Front Intake and Rear Exhaust  
1938-47 Knucklehead Rocker Cover Rear Intake  
1938-47 Knucklehead Rocker Cover Front Exhaust  
1966-84 Shovelhead (.30 thickness)  
1966-84 Shovelhead without Silicone  
1966-84 Shovelhead with Silicone  
1966-84 Shovelhead Metal with Silicone  
1999-up Twin Cam 88 Breather Case  
As Above Foam®  
1999-up Twin Cam 88 Breather Baffle  
As Above Foam®  
1999-2000 Twin Cam Rocker Cover Breather Element  
1984-98 Evolution Rocker Cover Bolt Washer  
1957-84 XL Rocker Cover  
As Above  
1986-88 XL Lower Rubber  
1986-88 XL Lower Cork  
1986-89 XL Upper Cork  
1986-90 XL Upper Rubber  
1989-03 XL Lower Rubber  
2004-06 XL Rocker Cover  
1991-06 XL Upper Rubber  
2007-up XL Rocker Cover Upper  
2007-up XL Rocker Cover Breather Seal  
2007-up XL Center Rocker Cover



15-1241



15-0268



15-1242



15-0266



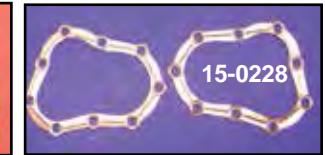
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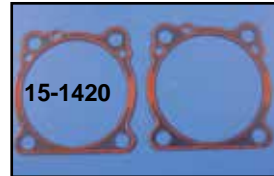
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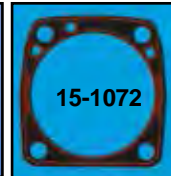
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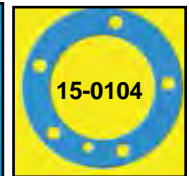
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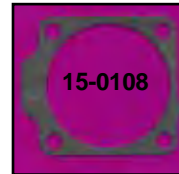
15-1420



15-1072



15-0104



15-0108



15-0273



15-1004



15-0113



15-0705



15-1218



15-1213



15-1203



# Gasket



## CAM COVER

GB No.	James	
15-0334	15-0277	24921-37
15-0564	—	25224-52A
15-0300	15-1077	25225-36A
15-0122	15-0928	25225-36C
15-0122	15-0928	25225-36C
15-0122	15-0928	25225-36B
15-0567	—	25225-36B
—	15-1267	25225-36X
15-0390	—	25225-36C
—	15-0929	25225-70A
15-0123	15-1141	25225-70B
15-0741	15-0713	25225-70X
—	15-1434	—
15-0692	15-0930	25225-93
—	15-0722	25225-93X
—	15-1435	—
15-0879	15-0286	25226-37A
15-0407	15-0276	25227-37
15-1501	15-1198	25244-99
—	15-1432	—
15-0153	15-1031	32521-36
15-0154	15-1031	32591-37
15-0339	15-0214	24978-57
15-0121	15-1078	25224-52A
15-0564	—	Pair
15-0124	15-0931	25263-81
15-0245	15-0932	25263-86
—	15-1433	—
15-0308	15-0933	25263-90A
15-0365	15-1223	25263-00

## PUSHROD TUBE

GB No.	James	
14-0501	14-0904	11101
14-0905	—	11101X
14-0508	—	11118
14-0512	—	11138
14-0514	—	11133
14-0513	—	11133A
14-0550	—	11145
14-0532	—	11157
14-0803	—	11293
15-0116	15-1137	17955-36
14-0028	—	—
15-0348	—	—
15-0117	15-1138	17955-48
14-0029	—	—
15-0349	—	—

## STARTER-GENERATOR

GB No.	James	
15-0217	15-1143	25811-11
15-0226	15-1021	30138-30
15-0287	15-1022	30143-30
15-0150	15-1023	30143-58
15-0566	—	30143-30
15-0410	—	30105-30
15-0655	15-1024	31320-80
15-0656	15-0966	31321-80
15-0174	15-0916	60518-65
15-0290	15-1064	60559-80
15-0181	15-0917	60645-65

## OIL PUMP

GB No.	James	
15-0306	—	24990-52
15-0310	—	24994-52
15-0299	15-0935	26231-78
15-0333	15-0275	26244-37
15-0727	—	26245-41
—	15-0126	26245-41
15-0338	15-0274	26246-37
15-0294	15-0940	26246-68A
—	15-0939	26246-68D
15-0127	15-0128	26255-41
15-0740	15-0130	26257-41
15-0131	15-0944	26257-50A
15-0134	15-0948	26258-68
15-0293	15-0949	26258-68B
15-0295	15-0953	26273-80A
15-0137	15-0952	26273-80B
15-0682	15-0954	26276-92
15-0958	15-0955	26276-90A
15-0296	15-0956	26276-80M
15-0683	15-0957	26276-92

## TAPPET GUIDE

GB No.	James	
15-0281	—	18245-39
15-0282	—	18257-39
15-0283	—	18259-39
14-0170	14-0621	18260-29
15-0255	—	18630-26
15-0330	15-0278	18631-30
15-0118	15-0925	18632-36
15-0119	15-0926	18633-48A
—	15-1438	18634-48
15-0120	15-0927	18634-48A
—	15-1439	18634-48
15-1542	—	—
—	15-1197	18635-99
—	15-1296	18635-99

## PRIMARY COVER GASKETS

GB No.	James	
—	15-1253	31434-06
15-0163	15-0909	34901-79
15-0743	15-1115	34901-85
15-0239	15-0904	34901-85
15-0050	—	—
15-0967	15-0937	34901-94A
15-0051	15-1336	—
15-1512	—	34901-07
15-1547	—	34901-07
15-0164	15-1080	34902-79A
15-0165	15-1081	34903-79
15-0229	—	60538-81
15-0176	15-0906	60538-81C
15-0401	15-0900	—
—	15-1338	—
15-0645	—	60539-89
15-0677	15-0902	60539-89X
15-0404	15-0921	60539-94
15-0052	15-1337	—
15-0175	15-0905	60540-36
15-0644	15-1128	60540-65
15-0400	—	60540-65A
15-1510	15-1254	60547-06
15-1525	—	—

1937-73 Flathead Cam Cover Breather  
 1952-56 K, 1957-80 XL  
 1936-40 Knucklehead  
 1941-69 Big Twin  
 1941-47 Knucklehead  
 1941-62 Big Twin  
 1936-47 Big Twin  
 As Above with Silicone Bead  
 1963-69 Big Twin  
 1970-92 Big Twin (white .030")  
 1970-92 Big Twin (black)  
 1970-92 Big Twin with Silicone  
 As Above Foamet® with Silicone Bead  
 1993-99 80" Evolution Big Twin with silicone  
 1993-99 80" Evolution Big Twin with silicone  
 As Above Foamet® with Silicone Bead  
 1937-73 45" Flathead  
 1937-48 74" /80" Flathead  
 1999-up Twin Cam 88 Cam Cover Gasket  
 As Above Foamet® with Silicone Bead  
 BT OHV Knuckle Circuit Breaker Base  
 UL and 45 Circuit Breaker Base  
 1957-81 Oil Strainer  
 1954-Early 81 XL Cam Cover  
 1954-Early 81 XL Cam Cover  
 1982-85 XL Cam Cover  
 1986-90 XL Cam Cover  
 1986-90 XL Cam Cover Foamet®  
 1991-up XL Cam Cover  
 2000-up XL Cam Cover w/Bead

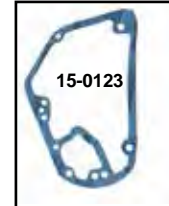
Late 1979-E81 Upper O-Ring  
 Late 1979-81 Upper O-Ring (oversized)  
 Late 1979-81 Upper Quad Seal  
 Late 1979-2000 Middle O-Ring  
 Late 1979-E81 Lower O-Ring  
 Late 1981-84 Lower Quad Seal  
 1984-2000 Lower O-Ring  
 1984-99 80" Evolution Upper O-Ring  
 1999-2000 Twin Cam 88 Upper O-Ring  
 1936-Early 79 Small Cork  
 As Above Silicone  
 As Above Rubber  
 1948-Early 79 Large Cork  
 As Above Silicone  
 As Above Rubber

Generator stud washer for 1911-85 FL  
 1937-48 Generator End Cover  
 1930-57 Generator Mount Gasket  
 1958-69 Generator Mounting  
 Generator Gasket  
 1930-64 Generator Bearing End  
 1980-86 Belt Drive Starter Housing to Primary  
 1980-86 Belt Drive Starter (between two housings)  
 1965-86 Starter Hole Cover with Kicker only  
 1980-85 Chain Drive Starter Housing Oil Deflector Plate  
 Late 1965-88 Solenoid

1952-57 Tappet Oil Screen Plug  
 1952-92 Tappet Oil Screen Plug  
 1954-80 Oil Pump Cap Washer Blue Teflon  
 1937-59 W/WLA Body to Motor  
 1941-67 FL Oil Pump Body to Case (Mylar)  
 As Above Paper  
 Side Valve Scavenger Pump Base  
 1968-80 Body to Motor, Mylar  
 1968-Early 80 Body to Motor, Paper  
 1941-Early 50 Cover (Governor Fitted), Paper  
 1941-Early 50 Cover, Black Paper  
 Late 1950-67 Cover, Black Paper  
 1968-Early 80 Cover, Black Paper  
 1968-Early 80 Cover, Mylar  
 Late 1980-91 Body to Motor, Mylar  
 Late 1980-91 Body to Motor, Black Paper  
 Late 1980-91 Evolution Body to Motor, Black Paper  
 Late 1980-91 Cover, Black Paper  
 Late 1980-91 Pump Cover, Mylar  
 1992-99 80" Evolution Cover, Black Paper

1939-48 Flathead Upper Guide Cover  
 1939-48 Flathead Lower Guide Cover  
 1936-48 Tappet Block Fiber Washer  
 1929-68 Flathead Valve Spring Cover Seal  
 1926-73 45" Flathead Spring Cover  
 1930-73 Flatheads, Tappet Guide  
 1936-47 Overhead Valve Tappet Guide  
 1948-99 Rear Tappet Guide  
 1948-99 Rear Tappet Guide Foamet®  
 1948-99 Front Tappet Guide  
 1941-48 Front Tappet Guide Foamet®  
 1948-99 Set  
 1999-2000 Twin Cam 88 Tappet Cover Gasket  
 1999-up Twin Cam 88 Tappet Cover Gasket with Foamet®

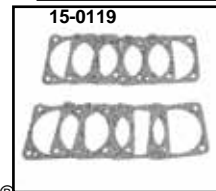
2007-up Big Twin Inner Primary Mounting Bolt  
 1980-93 FXR/FLT Primary Cover (.030")  
 1980-93 FXR/FLT Primary Cover (.062")  
 1983-93 FXR/FLT Primary Cover (.062"), Beaded  
 As Above Metal with Foam Rubber Coating  
 1994-2006 FXR/FLT Primary Cover  
 As Above Metal with Foam Rubber Coating  
 2007-up FLT, Touring  
 2007-up FLT  
 1980-84 FXR/FLT Primary to Trans (large)  
 1980-84 FXR/FLT Primary to Trans (small)  
 1982-88 Rigid Mount Primary Cover 1/16" thick 9 hole  
 As Above 1/32" thick  
 Late 1982-88 Rigid Mount 9 Hole Primary, Beaded  
 As Above, Foamet® with bead  
 1989-93 Softail, Dyna Primary Cover (.062)  
 1989-93 Softail, Dyna Primary Cover, Beaded  
 1994-06 Softail, Dyna Primary Cover Beaded  
 As Above Metal with Foam Rubber Coating  
 1936-64 Primary Cover, cork  
 1965-80 FX/FL Primary Cover (8 hole)  
 1965-82 4 Speed, 8 hole Primary Cover Beaded  
 2006-up FXD Beaded, 2007-up FXST Primary Cover Beaded  
 Inner Primary Gasket



15-0127



15-1542



15-0119



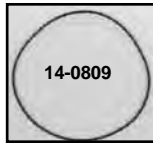
15-0118



15-1510



# Gasket



## DERBY COVER Gaskets

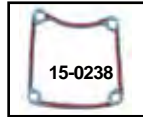
GB No.	James
15-1511	—
15-0125	15-0934
15-0882	—
—	15-1142
15-1249	—
—	15-1422
15-1248	—
—	15-1279
15-0765	15-0701
14-0535	—
14-0809	—
15-1286	15-1224
15-0883	—
37-8868	15-1150
37-8931	15-1151
15-0177	15-0919

## OEM

17369-06
25416-70
25416-70B
25416-70-C
25416-99D
25419-99D
25416-70C
—
25416-70X
25416-84
25416-99A
—
25416-99B
31433-84
31433-84A
60565-36

## Fits

2006-up FXD Derby
1970-Early 84 Derby Cover (.030")
1970-Early 84 with Bead
1970-Early 84 Derby Cover (Cork, .030")
1999-up Derby Beaded
1999-up Derby Foamet® with bead
1970-98 Derby Beaded
1970-98 Derby Molded Rubber
1970-Early 84 Derby Cover Gasket, Beaded
1985-98 Derby Cover O-Ring
1999-up TC-88 Derby Cover Seal
As Above Gasket with Silicone
1999-up with Bead Gasket
1984-98 Derby Cover Bolt Washer, Nylon
1984 98 Primary Cover Bolt Washer with Seal
1936-64 Derby Cover, Cork



## INSPECTION COVER Gaskets

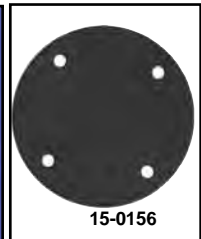
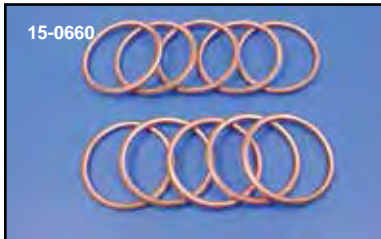
GB No.	James
15-0167	15-0922
—	15-0704
15-0238	15-0702
—	15-1202
—	15-1278
—	15-0916
15-0178	15-0920
—	15-0700
15-0179	15-0915
15-1217	15-0703
—	15-0465
—	15-1421
15-0408	15-0180
—	15-1161

## OEM

34906-79
34906-79A
34906-85
34906-85A
—
60518-65
60567-36
60567-65
60567-65C
60567-90
60567-90
60567-90
60629-55
63859-95

## Fits

1980-84 FXR/FLT Inspection Cover (.030")
1980-84 FLT/FXR Inspection Cover (.062"), Beaded
1986-up FLT/FXR Inspection Cover with Bead
1986-up FLT/FXR Inspection Steel Core, two side bead, .045", beaded
As Above Metal with Molded Rubber
1965-69 Starter Plate
1936-64 Primary Inspection Cover, Cork
1965-84 4 Speed, 1991-up Dynaglide and 1984-up Softail Inspection Cover (.062") beaded on two sides
1965-84 4 Speed, Dynaglide and Softail Inspection Cover (.032")
1965-84 4 Speed, Dynaglide and Softail Inspection Cover(.062") beaded on one side
1965-84 4 Speed, 1991-up Dynaglide and 1984-up Softail Inspection Cover Metal with rubber coating
1965-84 4 Speed, 1991-up Dynaglide and 1984-up Softail Inspection Cover Foamet® w/bead
1955-64 Inner Primary to Crankcase
1994-up FXST/Dynaglide Inspection Cover Mounting Screw



## EXHAUST

GB No.	James
15-0267	—
15-0227	15-0712
15-0732	—
15-0696	15-0968
—	15-1076
15-0191	—
15-0197	—
15-0198	—
—	15-1074
15-0195	15-1073
15-0196	—
15-0660	15-1098

## OEM

65324-83
65324-83A
—
65721-85
65826-90
65834-68
65834-68A
—
65834-68C
65834-68C
—
—

## Fits

1984-2000 Exhaust Port Mesh Type
1984-2000 Graphite Exhaust Port Tapered
As Above, 10 pack
1985-94 FLT Muffler junction
1991-2000 Dyna Glide Exhaust interconnect
1966-84 Shovelhead (plain)
1966-84 Shovelhead (all copper)
As Above, 50 pack
1966-84 Shovelhead Steel Core
1966-84 Shovelhead Fire Ring™, 10 pack
As Above, 50 pack
1966-84 Shovelhead Copper Donut



## IGNITION COVER/DISTRIBUTOR BASE

GB No.	James
15-0149	15-1020
15-0153	15-1030
15-0154	15-1031
15-0155	15-1032
15-0156	15-1033

## OEM

29550-55
32521-36
32591-70
32591-70
32591-80

## Fits

Magneto Cap
1936-64 Distributor (base)
1937-48 Flathead Circuit Breaker
1970-79 Point Cover
1980-99 Point Cover 4 hole



# Gasket



## TRANSMISSION

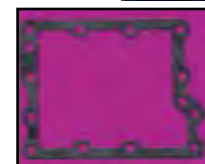
GB No.	James	OEM	Fits
14-0922	15-1129	6007	1980-up Transmission Drain Plug Nylon
—	15-1272	As Above	Rubber Bonded Washer
15-0411	—	2261-31	1930-36 VL Top Cover
15-0217	15-1143	25811-11	1952-85 Neutral Switch
—	15-1116	26072-90A	1991-98 Dyna Glide Oil Pan
—	15-1205	26072-90X	1991-98 Dyna Glide Oil Pan with Silicone Bead
—	15-1240	26072-99	1999-05 Dyna Glide Oil Pan with Silicone Bead
—	15-1117	26077-93	1993-99 FLT Oil Pan Transmission Housing
—	15-1206	26077-99	1999-2000 FLT Transmission Oil Pan Gasket
15-0685	—	33043-80	1980-97 Neutral Switch
15-0157	15-1034	33196-79	Late1979-86 4 Speed Side Shifter Shaft Cover
15-0158	15-1035	33295-36	1936-86 4 Speed Kicker Cover
—	15-0595	33295-36X	1936-86 4 Speed End Cover with Silicone
14-0633	14-0826	34459-26	Leather Shifter Shaft Washer
15-0331	15-0279	34825-41	1941-73 45" Top Cover
15-0332	15-0280	34826-41	1941-73 45" Side Cover
15-0159	15-1036	34552-52	1952-Early79 Shifter Cover
15-0160	15-1037	34565-52	1952-Early79 Shifter Adapter Plate to Transmission
15-0161	15-1038	34824-36	1936-Early79 4 Speed Shifter Cover Ratchet Lid
15-0162	15-1039	34824-79	Late1979-86 4 Speed Shifter Cover Ratchet Lid
15-0166	15-1040	34904-79	1980-85 5 Speed Transmission Top Cover
15-0237	15-1041	34904-86C	1986-2000 5 Speed Transmission Top Cover
15-1505	—	34904-86C	1986-06 Softail Top with Bead
—	15-1231	34917-90A	1991-98 FXD Top Cover with Bead
—	15-1049	36025-36	Countershaft End Plug
15-0184	15-1070	67141-36	1937-84 Speedometer Drive Unit

## 1999-UP TRANSMISSION GASKETS FOR TC-88. JAMES BRAND UNLESS NOTED.

GB No.	James	OEM	Fits
—	15-1129	6007	Nylon Drain Plugs
—	15-1116	26072-90A	1991-98 Dynaglide Trans Oil Pan
—	15-1205	26072-90X	As Above Silicone Beaded
—	15-1240	26072-99	1999-05 FXD Oil Pan Gasket
—	15-1117	26077-93	1993-98 FLT Trans Oil Pan
—	15-1206	26077-99	1998-06 TC-88 FLT Oil Pan
—	15-1041	34904-86	1986-06 Big Twin Trans Top Cover
—	15-1118	34917-90A	1991-98 Dynaglide Transmission Top Cover
—	15-1231	34917-90X	1991-87 FXD Transmission Cover Gasket with Silicone Bead
—	15-1232	34917-99	1999-05 FXD Transmission Top Cover with Silicone Bead
—	15-1257	34917-06X	Trans Top Cover 06-up Dynaglide, 07-up Big Twins with Silicone Bead
—	15-1258	34917-06	As Above Metal with Foam Rubber Coating
—	15-1263	35607-06	Transmission to Engine Interface 2006-up Dyna, 2007-up Big Twin
—	15-1048	35652-79A	1979-06 Big Twin 5 Speed Bearing Gasket
—	15-1207	35652-79X	1979-06 5-Speed Bearing Housing Gasket with Silicone Bead
15-1535	15-1259	35654-06-X	Bearing Housing 2006-up Dynaglide, 2007-up FXST with Silicone Bead
—	15-1260	35654-06F	As Above Metal with Foam Rubber Coating
—	15-1233	36801-79X	1979-85 FLT-FXR Clutch Release Cover with Silicone Bead
—	15-1230	36801-87X	1987-06 Big Twin Clutch Release Cover with Silicone Bead
15-1529	15-1261	36805-06X	Clutch Release Cover 2006-up Dyna, 2007-up Big Twin with Silicone Bead
—	15-1262	36805-06F	As Above Metal with Foam Rubber Coating
—	15-1155	37091-80	5 Speed Filler Plug Gasket
—	15-1120	62432-93	1993-up FLT Transmission Oil Washer
—	15-1275	63869-06	2006-up FXD Inner Chain Housing Shifter Shaft

## GLIDE/FLT

GB No.	James	OEM	Fits
—	15-1118	34917-90A	1991-98 Dynaglide Transmission Top Cover
—	15-1231	—	As Above with Silicone Bead
—	15-1232	34917-99	1999-05 Transmission Top Cover with Bead
15-0213	15-1048	35652-79A/B	1980-98 5 Speed Bearing Housing to Case
—	15-1207	35652-79X	1980-98 5 Speed Bearing Housing to Case with Silicone
15-1500	—	35653-98	1999-06 TC-88 Door
15-0171	15-1049	36025-36	1937-64 Countershaft End Cap
15-0172	15-1050	36801-79	1980-86 5 Speed Release End Cover
15-0346	15-1233	—	1980-86 5-Speed Release/End Cover with Silicone Bead
15-0240	15-1051	36801-87B	1987-06 Release/End Cover
—	15-1230	—	As Above with Silicone Bead
15-0225	15-1052	36821-68	1968-69 FL Transmission Cover Plug
—	15-1155	37091-80	1980-86 5 Speed Filler Plug
15-1538	—	62423-90	1990-99 FXD Filler
—	15-1120	62432-93	1991-2000 FLT, FXD Transmission Oil Sprout
15-0194	15-1158	62702-52	1941-86 Drain Plug Washer
15-0184	15-1070	67141-36	1937-84 Speedometer Drive Unit



15-0161



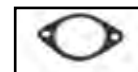
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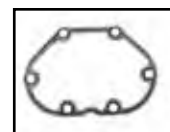
15-0159



15-0160



15-0157



15-0240



15-0346



15-0172



15-1529



# Gasket

## GAS TANK/OIL TANK GASKETS

GB No.	James	OEM	Fits
14-0561	15-1065	61109-85	1983-up Gas Cap
—	15-1066	61111-77	1977-82 Gas Cap
15-0756	—	61114-36	1936-47 Gas Cap
—	15-1156	61114-48	1941-82 Gas Cap Thin
15-0183	15-1067	61116-65	1965-82 Gas Cap Left
15-0265	15-1068	62172-75	1975-up Fuel Valve
15-0676	15-1157	62270-32	1932-65 Fuel Strainer
15-0341	—	62617-52	1952-64 XL Oil Tank Cap
15-0192	—	62628-36	1936-64 Oil Tank Cap Copper Filled Style
15-0329	15-0200	62628-52	1952-65 XL Oil Tank Cap
15-0328	15-0201	62628-66	1966-82 Big Twin, 1966-79 XL Oil Tank Cap
—	15-1159	63809-48	1948-64 Oil Filter Cap
—	15-1378	63809-48	As Above Molded Rubber
—	15-1160	63848-48	1948-64 Oil Filter Cap Retainer

## MASTER CYLINDER & RESERVOIR TOP GASKETS

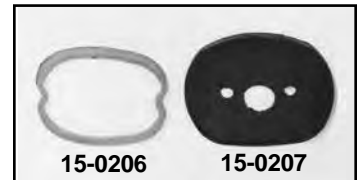
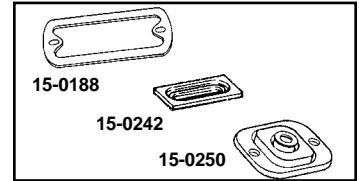
Front	—	OEM	Year/Type
15-0188	—	45012-72	1972-81 Master Cylinder
15-0204	—	45012-82	1982-84 Master Cylinder
15-0242	—	45005-85	1985-95 Master Cylinder
15-0250	—	45005-96	1996-up Master Cylinder
Rear			
15-0202	—	41766-58	1958-78 Master Cylinder Top
15-0203	—	42455-80	1979-84 Master Cylinder Top
15-0248	—	42455-82	1982-84 Reservoir
15-0540	—	42455-99	2000-up Reservoir
15-0242	—	45005-85	1985-95 Master Cylinder Top

## TURN SIGNAL/FENDER LIGHT/ TAILLIGHT GASKETS

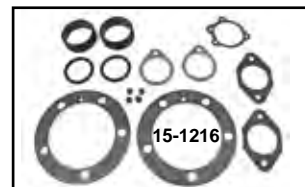
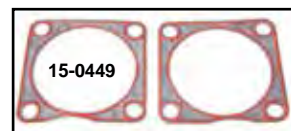
GB Stock	GB Beaded	OEM	Fits
15-0325	15-0291	5056-39	1939-46 Beehive Mounting
15-0695	—	59181-80	Fender Tip Lens Front
—	15-0289	59266-68	1968-84 Front Fender Lamp
15-0303	—	67716-60A	1960-84 FL Head Lamp Mounting Ring
15-0320	—	67734-35	1935-48 Head lamp Lens
15-0206	—	68025-73	1973-up Tail lamp Lens
15-0413	—	68121-47	1947-54 Tombstone License Plate Lens
15-0302	—	68121-55	1955-72 Tail Lamp Top Lens
15-0305	—	68122-47	1947-54 Tail Lamp Lens
15-0301	—	68122-55	1955-72 Tail Lamp Lens
15-0323	15-0208	68123-47	1947-54 Tail Lamp Mounting
15-0322	15-0209	68123-55	1955-72 Tail Lamp Mounting
15-0224	15-0207	68123-73	1973-up Tail Lamp Mounting
15-0718	—	68125-25	1925-54 Tail Lamp Lens
15-0719	—	68126-36	1936-54 Tail Lamp Lens Inner
15-0724	15-0205	68459-47	1935-49 Front Fender Lamp Mounting
15-0742	—	68121-68	1968-85 FL Turn Signal Lens
15-0409	—	68124-39	1939-46 Tail Lamp Mounting
15-0667	—	68127-42	1942-46 Tail Lamp Top Lens
15-0342	—	68226-97	1997-up Tombstone
15-0723	—	68456-35	Front Fender Lamp
15-0678	—	68456-89	License Plate Mounting Bracket
15-0187	—	68481-73	1973-85 FX-XL Turn Signal Lens
15-0665	—	—	Cateye Tail Lamp Lens
15-0709	—	—	Sparto Tail Lamp Mounting



15-0756



## Base and Head Gasket



### GB Cylinder Base Gaskets for XL

Size	3 1/2" Bore	3 5/8" Bore	3 13/16" Bore	3 3/4" Bore
1986-99 XL, 883-1200				
.010	15-0487	15-0489	—	—
.020	15-0488	15-0490	—	—
Head Gaskets 1986-99 XL				
.030	15-0475	15-0477	15-0479	15-0481
.040	15-0476	15-0478	15-0480	15-0482

Cylinder Gasket Set include head and base gasket for Evolution, with .040 head gasket.

15-0389	Metal Base
15-0392	Beaded

### Base Gasket Sets

VT No.	Brand	Size	Fits
15-0449			1936-52 W, 1935-75 G
15-1298	V-Twin		1996-up TC-88
15-0312	GB		1984-99 Evo 80"
15-0313	GB		1986-1991 XL
15-0414	James	.045"	1984-98 FXST, FLT, 1991-98 FXD, 84-94 FXR
15-0877	James	.062"	1984-98 FXST, FLT, 1991-98 FXD, 84-94 FXR
15-0376	V-Twin		1999-up FXST, FLST, FLT, FXD
15-1234	James	.045"	Special application for S&S 4" bore cylinders
15-1235	James	.045"	1999-up FXST, FLST, FLT, FXD
15-1293	GB .045		1999-up FXST, FLST, FLT, FXD
15-1216	Fire Ring		1966-84 FL, 1971-84 FX, 79-83 FLT, 82-83 FXR
15-0887	Fire Ring		1966-84 FL, 1971-84 FX, 79-83 FLT, 82-83 FXR
15-1193	Metal		1948-62 FL

All Service Products which include gaskets, pins bolts, rollers, bulk packs, hardware will be available for replacement only. No credit will be issued.



# Gasket



## CARB, AIR CLEANER AND MANIFOLD, BIG TWIN

GB No.	James	OEM	Fits
14-0180	14-0625	27002-89	1988-2000 Carburetor to Intake
15-0139	15-1085	27023-71	1971-75 Bendix Intake to Carburetor
15-0142	15-1086	27077-78	1978-89 Keihin Intake to Carburetor
—	15-1144	27077-78X	1979-89 Intake to carburetor
15-0744	—	27205-57	Linkert DC Body
15-0745	—	27329-57	Linkert DC Nozzle Vent
15-0746	—	27374-57	Linkert DC Float Bowl Nut
15-0232	15-1088	27376-28	1928-65 Float Bowl Lock Nut Gasket
15-0321	—	—	1952-65 Linkert Float Bowl
15-0747	—	27376-57	Linkert DC Float Bowl
15-0748	—	27386-57	Linkert DC Valve Seal
15-0304	15-1089	27391-36	1936-65 Float Bowl (Linkert)
14-0926	—	27402-33	Linkert Needle Valve
—	15-1145	27403-71	1971-75 FX/FL Main Jet Washer
15-0336	—	27410-21	Linkert Carburetor to Manifold 3 Bolt
15-0288	—	27410-29	Manifold, 1"
15-0146	15-0964	27414-61	2-Hole Manifold
15-0264	15-1091	27410-39	Linkert 3 Bolt 1.25
15-0144	15-1092	27410-57	1966 Intake to Carb
15-0145	15-1093	27411-40	1940-65 Big Twin Linkert to Carburetor
15-0262	—	27412-48	1948-65 Big Twin Linkert Carburetor Spacer
15-0147	—	27646-71	1971-76 Bendix Float Bowl
15-0148	15-1146	29058-77	L1977-89 Air Cleaner to Carburetor
—	15-1016	29058-77A	L1977-89 Air Cleaner to Carburetor (.062")
15-0285	15-1017	29059-88	1990-99 80" Evolution Air Cleaner to CV Carburetor
—	15-1148	29059-88A	1990-99 80" Evolution Air Cleaner to Carburetor, Adhesive
—	15-1147	29059-88X	1990-99 80" Ev Air Cleaner to Carburetor, Steel Core
—	15-1199	29062-95B	1999-2000 Twin Cam 88 Carburetor Back Plate Gasket
—	15-0596	29095-95	1995-99 FL Air Cleaner Back Plate
15-0263	15-1018	29242-83	1984-89 Compliance to Head
15-0141	15-1019	29250-78	Insulator Block, Carburetor to intake, Keihin/Bendix
—	15-1149	29313-95	1995-2000 Air Cleaner backplate
15-1536	15-1200	29368-99	1999-2000 Twin Cam 88 Induction Module Gasket
15-1537	15-1201	29463-99	1999-2000 Twin Cam 88 EFI Filter Element Gasket
15-0676	15-1157	62270-32	Fuel Strainer



Cometic AFM Gaskets feature a chemically blown compound nitrile synthetic rubber bonded to an aluminum core that has a temperature resistance of over 2500 degrees F. AFM does not require gasket sealers or silicone bead and re-torque of mounting bolts is not required.

### Big Twin Primary Gasket and Seal Kits

VT No.	Fits
15-1300	2006-up Dynaglide, 2007-up FXST
15-1326	2007-up FLT
15-1301	1994-06 FXST, 1994-05 Dynaglide
15-1302	1989-93 FXST, FXD
15-1303	1994-06 FLT, FLHT, FXR
15-1304	1980-93 FLT, FLHT, FXR
15-1305	1965-88 FX, FL, FXST

### Big Twin Primary Gasket

15-1327	2007-up FLT
15-1306	2006-up Dyna, 2007-up FXST
15-1307	1989-06 FXST, 1989-05 Dyna
15-1308	1994-up FLT, FXR
15-1309	1980-93 FLT, FXR
15-1310	1965-88 FX, FL, FXST

### Big Twin Primary Inspection Cover Gasket

15-1311	1965-up FX, FL, FXST, 1989-05 Dyna
15-1312	1985-up FLT, FXR

### Big Twin Derby Gasket

15-1313	2006-up Dynaglide, 2007-up All Twin Cam (O-Ring)
15-1314	1999-up FXST, FLT, FXD (Replaces O-Ring)
15-1328	1984-98 All Big Twins (Replaces O-Ring)
15-1315	1970-83 FX, FL

### Big Twin Cam Cover Gasket

15-1316	1999-up Twin Cam
15-1317	1993-98 Evolution
15-1318	1970-92 Shovelhead & Evolution

### Sportster Primary Gasket and Seal Kits

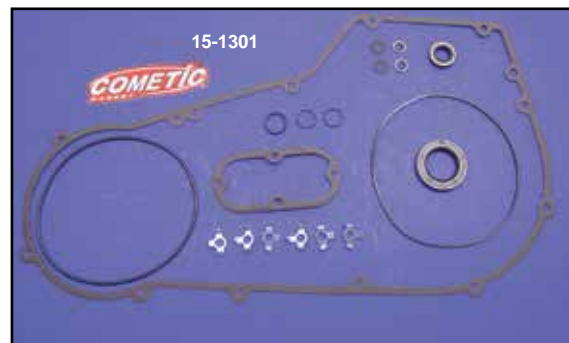
15-1319	2004-up All Models
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### Sportster Primary Gasket

15-1320	2004-up All Models
15-1321	51991-03 All Models
15-1322	1986-90 All Models

### Sportster Cam Cover

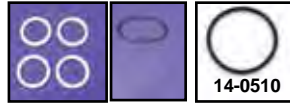
15-1323	2004-up All Models
15-1324	1991-03 All Models
15-1325	1986-90 All Models





# O-Ring

Sold in 10 packs unless noted.



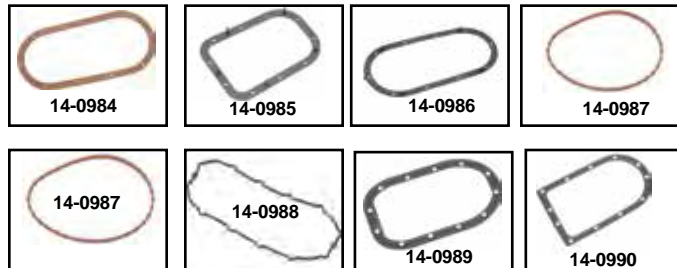
VT No.	OEM	Fits
14-0500	11100	1957-85 XL Tappet Guide
14-0501	11101	1957-85 XL, 1966-86 Shovelhead Rocker Shaft
14-0148		1957-85 XL, 1966-86 Big Twin Shovelhead No Leak Rocker Arm Seals
14-0904	11101	1966-84 Shovelhead, 1957-85 XL Rocker Arm, 100 pk
14-0905	11101X	As above Oversize, 100 pack
14-0527	11102	1966-69 XLH Timer Housing
14-0502	11103	1957-66 XL, 1967-69 XLCH Clutch Gear
14-0503	11105	1966-82 74" & 80" Oil Tank Cap
		1970-99 Big Twin Tappet Screen Plug
14-0504	11106	1971-78 XL Primary Cover Filler Cap
14-0505	11107	1966-71 XL, 1967-70 FL Carburetor Adapter
14-0506	11110	1986-90 XL Tappet Guide Mt Screw 1962-69 XL Tach Plug
14-0507	11115	1965-85 FL-FX 4 Speed Trans Countershaft
14-0537	11116	1981-90 XLH Starter Motor Housing
14-0538	11117	1984-up FXR Shifter Lever Sleeve
14-0508	11118	1981-85 Big Twin, Quad, Flat Pushrod O-Ring Small
14-0509	11119	1967-70 XLH, 70 XLCH Clutch Gear
14-0510	11123	45" S.V. Valve Spring Cover
14-0511	11125	1970-82 74", 80" except FXB In. Prim.
14-0512	11132	1979-E81 74" Pushrod Middle 1984-up V2 Big Twin XL O-ring
14-0513	11133A	Late 1981-85 80" quad FLT Pushrod large
14-0514	11133	Late 1979-E81 74" and 80" Pushrod Low
14-0907	11133	As above, 100 pack
14-0515	11139	Late 1978-90 XL Primary Filler Cap
14-0539	11140	1984-up FLT Front Fork Air Control
14-0550	11145	1984-up V2 Big Twin, 1986-90 XL, quad Lower Pushrod Cover
14-0531	11147	1984-99 Big Twin Inner Chain Housing
14-0556	11148	1986-90 XL quad Oil Filter Mount
14-0540	11156	1984 FLT Front Fork Air Control Solenoid
14-0532	11157	1984-up V2 Big Twin, 1986-90 XL, O-Ring Upper Pushrod Cover
14-0908	11157	As above 100 pack
14-0541	11159	1984-85 FXST Oil Tank Fitting
14-0542	11162	1982-84 FXR-FLT Mainshaft Right
14-0534	11165	1984-up Big Twin 5-speed Quad Mainshaft Ball Bearing Clutch Side
14-0543	11166	1985-86 FXWG-FXEP 4 Speed Countershaft
14-0544	11167	1986-90 XL Tappet Guide, Upper
14-0545	11168	1986-90 XL Tappet Guide, Lower
14-0546	11170	1984-99 FLT-FXRT Front Fork Air Cap
14-0547	11171	1985-99 FLT-FXRT Front Fork Air Control Solenoid
14-0554	11173	1987-99 FLST Wheel Hub Cap
14-0910	11174	1987-94 FXR Fuel Tank
14-0911	11176	1991-99 XL Pushrod Anti-rotation 1989-up FLTCU-FLHTCU Radio knob
14-0552	11178	1982-up Big Twin Transmission Filler Plug
14-0553	11179	1987-up Big Twin, 86-up XL Clutch Cable End
14-0916	11187	1991-up XL Clutch Inspection Cover
14-0917	11188	1991-up XL Chain Inspection Cover
14-0912	11190	1991-up XL Pushrod Cover
14-0913	11191	1990-up FXST-FLST Shifter Lever
14-0583	11201	2006-up Main Drive
14-0974	11241	1992-99 Big Twin Oil Pump End Cap
14-0800	11256	1999-up TC88 Cylinder Base
14-0801	11270	1999-up TC-88 Rocker Arm Support
14-0802	11273	1999-up TC-88 Cylinder Head Locating Dowel
14-0814	11286	1999-up TC-88 Oil Pump Outer
14-0815	11288	1999-01 TC-88 Cam Position Sensor
14-0816	11289	1999-up TC-88 Crankshaft Sensor
14-0817	11290	1999-up TC-88 Neutral Switch
14-0975	11292	1999-up FL Breather Bolt O-Ring
14-0803	11293	1999-up TC-88 Upper Pushrod Cover
14-0818	11297	1999-up FLT Fork Air Control
14-0819	11298	1999-up TC-88 Cam Support Plate Plug
14-0820	11301	1999-up TC-88 Oil Pump Inner
14-0933	17353-89	1989-03 Rocker Box Lower
14-0934	17354-89	1989-03 Rocker Box Upper
14-0535	25416-84	1985-98 FX-FXE-FXR-FLT-FXST Clutch Cover
14-0809	25416-99	1999-up BT Clutch Cover
14-0570	25463-94	1994-up XL Primary Derby (5 pack)
14-0516	26432-76A	1977-85 XL Oil Pump Body 1986-up XL Cylinder Stud Insert
14-0517	26433-77	1977-85 XL Oil Pump Check Valve 1986-90 XL Oil Filter Check Valve
14-0518	26434-76A	1977-85 XL Oil Pump Cover
14-0914	26434-91	1991-up XL Oil Pump



14-0165	26995-86A	1991-up XL Intake Manifold
14-0519	27060-55	1955-77 FL-FX-XL Intake Manifold
14-0915	27157-89	1990-up All Twins Carburetor Drain Screws
14-0560	27324-83	1983-87 Twins Keihin Carburetor Float Bowl, 5 pk
14-0520	27326-71	Bendix Main Jet
14-0521	27336-76	1976-78 FL-FX-XLCR Carburetor Flange
14-0559	27358-76	1976-78 Twin Keihin Carburetor Float Bowl
14-0564	27577-88	1987-91 All Twins Float Bowl
14-0937	27577-92	1992-up All Twins Float Bowl
14-0557	27889-78	L78-82 Twin Keihin Carburetor Float Bowl
14-0528	29603-48	1965 only FL Timer Housing
14-0949	31695-90	1990-up Twins Starter Motor Twins
14-0960	33340-90	1990-93 Big Twin Starter Shaft
14-0533	34036-80	1980-85 Big Twin 4 speed Shifter Cam
14-0572	43947-79	1981-99 FL Caliper Piston
14-0563	44059-83	1983-99 FXR-FXST-XL Front Caliper
14-0555	44152-77	1979-81 XL Rear Caliper Piston
14-0551	44277-74	1974-77 FX-XL Caliper Piston Front
14-0536	45443-86	1984-up FLT-FLHT Front Fork Upper Plug
14-0522	45780-52	1954-70 XL-FX Fork Tube Cap
14-0523	45845-77	Late 1977-85 FL, 1980-85 FXWG 1984-up FXST-FLST Fork Tube Plug
14-0524	45982-73	1973-86 FX-FXR-FXRT-FXRS-FXRT XL-XLS-XLX Slider Tube Cap
14-0558	45984-87	1987-up FXR-XL Fork Tube Plug
14-0901	49028-85T	Large O-Ring Pegs, 100 pack
14-0900	49031-84T	Small O-Ring Pegs, 100 pack
14-0902	49029-85T	Flat Kick Pedal, 100 pack
14-0903	49030-84T	Shifter Peg, 100 pack
14-0561	61109-85	1983-up Twins Gas Cap
14-0525	62094-40	1940-65 45", 61", 74" Gas Tank Shut-off
14-0530	62360-50	1950-65 Big Twin Fuel Line
14-0529	63529-50	1949-64 FL Filter Oil Line
14-0147	63529-57	Rocker Oil Line Seal, 100 pk
14-0526	63879-53	1958-82 Big Twin, 67-78 XLH Oil Filter Cap
14-0562	68425-86	1986-up Twins Turn Signal Lens Screw
14-0548	68451-86	1986-up FLT-FLST-FXRT Front Turn Signal
14-0549	68455-86	1986-up FXR-XL Front and Rear Turn Signal Lens, FXST-FLST-FXSTC Rear only

## 100 Pack O-Rings

14-0904	11101	1966-84 Rocker Arm
14-0905	11101X	As above Oversize
14-0906	27060-55	1955-77 Manifold
14-0147	63529-57	Oil Line Seal
14-0907	11133	Lower Pushrod Cover
14-0908	11157	Upper Pushrod Cover
14-0901	49028-85T	Large O-Ring Pegs
14-0900	49031-84T	Small O-Ring Pegs
14-0902	49029-85T	Flat Kick Pedal
14-0903	49030-84T	Shifter Peg



VT No.	OEM	Description
14-0984	61326-95	Top Plate Cork Gasket
14-0985	61381-02	Top Plate Gasket
14-0986	61402-08	Top Plate Gasket
14-0987	61402-02	Top Plate Gasket
14-0988	61402-08	Seal, Top Plate
14-0989	75245-04A	Seal, Fuel Tank
14-0990	75249-04A	Seal, Fuel Tank
14-0991	75301-07	Seal, Fuel Pump, Plate
14-0992	11324	O-ring 7.00 x 1.50 MM
14-0993	11345	O-ring
14-0980	12068	Oil Seal
14-0994	27444-00	O-ring
14-0995	34990-08	Gasket, Chain Inspection
14-0996	62673-90	O-ring FXDS
14-0997	11120	O-ring Dipstick





Seals are sold 5 pack unless noted other in U/M price list.

James	VT No.	OEM	Fits
—	14-0164	1400	1983-up Big Twin Evolution, TC-88, 1986-up XL Evolution Valve Guide, 10 pack
—	14-0143	1404	1954-85 XL Model Valve Guide Intake, 10 pack
—	14-0144	1405	1954-85 XL Valve Guide Exhaust 10 pack
—	14-0145	1408	1948-78 BT Valve Guide Intake-Exhaust 10 pack
—	14-0146	1427	1979-85 BT Shovelhead Valve Guide Intake/Exhaust, 10 pk
—	14-0255		1948-84 Big Twin Teflon Valve Guide
—	14-0256		1984-up Big Twin Teflon Valve Guide
14-0673	15-0221	6114	1984-99 All Twins Rocker Cover Copper
—	14-0031	6156	1941-69 Big Twin Chain Oiler Adj Screw
—	14-0178	6375	1946-57 Big Twin Oil Press Switch
—	14-0033	6377	1950-84 Big Twin Oil Pump Fitting
—	14-0032	6581	1954-78 Big Twin Oil Pump Relief Valve Plug
14-0674	—	7019	1991-up XL Shifter Lever
—	14-0100	11124	1954-up XL Cam Cover
14-0600	—	As Above	Double Lip
14-0675	14-0556	11148	1982-84 Big Twin Shifter Shaft
14-0687	—		Map Sensor 1999-up TC-88
14-0601	14-0101	12002	1961-73 XL, 1961-69 FL Generator Cover
14-0602	14-0102	12010	1979-85 4 Speed Big Twin Foot Shifter Cover
14-0603	14-0106	12013A	Late 1966-90 Big Twin 74"-80" Drive Gear
14-0604	14-0103	12014	1965-84 4 Speed Big Twin 74"-80" Clutch Nut
14-0605	14-0104	12018	1970-85 4 Speed Big Twin Inner Chain Housing
14-0606	14-0105	12021	1967-70 XLH Clutch Gear
14-0607	14-0107	12023	1962-69 XL Magneto Mount Plate
14-0608	14-0108	12026A	1970-99 74"-80" L Engine
14-0676	—	12026A	As Above Double Lip
14-0609	14-0918	12030	1991-99 5 Speed Trans Bearing
14-0821	14-0919	12035A	1991-06 Big Twin Mnsht 5th Gear
14-0821	14-0824	12035B	As Above Double Lip Metal
14-0611	14-0109	12036A	1977-90 XL Oil Pump
14-0612	14-0110	12043	1980-84 FLT-FXR Trans to Starter
—	14-0576	12044	1980-84 5 Speed Main Drive Gear, MTL
14-0613	14-0111	12044A	1980-84 FLT-FXR Main Drive Gear
14-0614	14-0149	12045	1980-up 5 Speed Shifter Shaft
14-0677	14-0825	12045	Double Lip Metal Outside Diameter
14-0664	—	12047	1980-81 FLT Wheel Bearing
14-0615	14-0150	12049	1984-90 XL Mainshft Sprocket
14-0616	14-0157	12050	1984-99 FXR-FLT, 91 XL Mainshaft Clutch Side
14-0617	14-0158	12051	1984-88 Big Twin Inner Chain Housing Start Shaft
14-0618	14-0159	12052	1984-up Big Twin Inner Chain Housing Mainshft
14-0619	14-0920	12053A	1989-93 Big Twin Inner Chain Housing Start Shaft
14-0665	14-0961	12066	1994-up Big Twin Inner Chain Housing Starter Shaft
14-0972	14-0962	12067A	1994-up Front Pulley
14-0810	—	12068	1999-up TC-88 Sprocket Shft
14-0696	—	12074	Main Drive Gear Outer
—	—	—	2006-up Dynaglide, 2007-up Big Twin
14-0697	—	12077	As Above Inner
—	7411-2	24776-40	1936-54 Big Twin Engine Seal
—	14-0177		Replacement seal
—	—	—	For above, each
14-0622	14-0171	25414-82	1982-84 FLT Rear Chain Housing
14-0623	14-0114	26227-58	1958-76 XL, 1968-up Big Twin Oil Pump
14-0963	14-0925	26856-89	1991-99 BT, 91-up XL Rocker Cover Umbrella
14-0811	14-0805	26858-99	1999-up TC-88 Umbrella
14-0624	14-0165	26995-86B	1986-up Intake Manifold to Cylinder Head Evo & TC-88
14-0573	—	26995-97X	As Above, Blue
14-0678	—	Oversize	As Above
14-0689	—		As Above Metal with Rubber Standard Size
14-0625	14-0180	27002-89	1989-up Evolution Carburetor to Manifold
14-0626	14-0113	27062-78	1978-85 Big Twin Shovelhead Intake Manifold to Cylinder Head Sleeve
14-0679	—	27385-76	Low Speed Jet Plug 1976-up Keihin Carburetors
14-0627	14-0168	29911-82	1982-84 XL Gen Gear End
14-0628	14-0112	30145-46A	1958-69 74", 1958-81 XL Generator, Large
14-0629	14-0156	31341-80	1980-84 FXB, 84-85 FXWG Starter Shaft Housing
14-0630	14-0115	33076-37	L1937-84 FL-FX 4 Speed Starter Crank
14-0631	14-0116	34035-52	1952-85 XL Shifter Shaft
14-0632	14-0117	34036-36	1941-79 Big Twin Shifter Cam Shaft
14-0635	14-0118	35151-52A	1952-74 XL Engine, 1952-Early 74 XL Transmission

## Seal

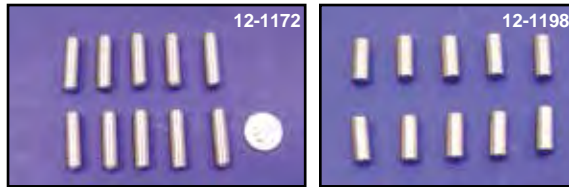


Seals are sold 5 pack unless noted U/M price list. \*Note: Metal Outside Diameter

James	VT No.	OEM	Fits
14-0636	14-0119	35151-74	Late 1974-up XL Engine
—	—	—	Late 1974-up XL Transmission
14-0637	14-0122	35230-39	1941-79 74"and 80" Transmission Mainshaft Double Lip
14-0638	14-0123	35231-36	1937-79 Transmission Mainshaft Cork Washer
—	14-0186	As Above	Rubber
14-0639	14-0160	37101-84	1984-86 FXR-FLT Clutch Release Lever
—	—	—	1986-up XL Primary Cover Shift Shaft
14-0695	—	37107-06	2006-up XL Primary Cover
—	14-0126	37335-41	1941-73 45" Clutch Pushrod
14-0640	14-0124	37337-36	1937-67 FL Clutch Pushrod Cork
14-0641	14-0125	37339-53	1954-70 XL Clutch Rod
14-0643	14-0127	37531-56B	1955-69 XL Transmission Clutch Gear
14-0644	14-0128	37740-57	Late 1957-66 XLH-XLCH, 1967-69 XLCH Clutch Hub Oil
14-0645	14-0129	37741-67	1967-70 XLH Clutch Hub
14-0646	14-0130	37741-82	1979-81 Big Twin Transmission Mainshaft
—	—	—	1982-85 Big Twin 4 Speed Transmission Mainshaft
14-0822	—	37741-82	As Above Double Lip Rubber Outside Dia
14-0647	14-0131	41210-55	1955-72 XL, 1967-71 Big Twin Wheel Hub
14-0648	14-0167	45378-87	1987-up FXLR-FXRSE Fork Slider
14-0649	14-0162	45387-83	1983-up FXR-FXRSE-FXRT, 1984-up XL Fork Slider
14-0650	14-0133	45400-75	1975-83 XL-FX Fork Slider, Showa
14-0651	14-0132	45733-48	1949-77 FL Model, 1987-up FLST-FXST Fork Tube Cap
14-0652	14-0134	45843-77	1977-83 FL, 80-86 FXWG Fork Slider
14-0653	14-0135	45852-48	1948-77 FL-FLH Fork Slider
14-0654	14-0163	45875-84	1984-up FXST, 1985-up FXWG, 1987-up FLT
14-0655	14-0136	45927-73	1973-74 FX-XL Fork Slider
14-0656	14-0137	45975-71	1971-72 FX-XL Fork Slider
14-0657	14-0138	47519-58	1973-82 FX Rear Wheel, 1973-82 FL Front/Rear Wire Wheel (Double Lip)
14-0658	14-0139	47519-72	1972-82 FX Front and Rear Wheel Seal, 1973-82 FL Front/Rear Mag Wheel
14-0659	14-0140	47519-83A	1983-99 FX-XL Front or Rear Wheel (Double Lip)
14-0660	14-0141	60641-74	1974-84 FX-74" All models Except FXWG, Shifter Shaft
40-9835	—	63525-92	1992-99 Big Twin Oil Line Feed Tube
40-9833	—	63528-92	1992-99 Big Twin Oil Filter Tube
14-0662	14-0147	63529-57	1957-85 XL, 1966-85 Big Twin Rocker Oil Line
14-0966	—	67096-87	1987-94 FLT Speedometer Drive
14-0944	—	67098-87	1987-94 FXR-Dynaglide-XL Speedometer Drive
14-0947	—	67118-87	1987-94 FXST-FLST Speedometer Drive
14-0663*	14-0682*	83162-51	1971-99 74"-80" All Cam Cover Single Lip
14-0680	14-0142	83162-51	As Above Double Lip



## Pin



**Dowel Pin-Roll Pin.** Special pins in 25 packs. Check factory parts book for more applications.

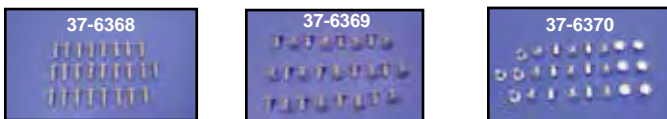
VT No.	OEM	Fits	Use
12-1198	221	1990-up	Primary
12-1176	255	1971-76	Solenoid
12-1175	271	1941-up 74, 1954-up XL 1931-up 45"	Cam
12-1184	275	1941-up Big Twin	Cam Case
12-1185	327	1941-up Big Twin	Gear Case
12-1173	333	1937 UL and 45" 1957-81 XL	Oil Strainer, 10 pack
12-1174	334A	1965-up FL-FXE	Starter
12-1153	358	1970-83	Cam Cover
12-1172	375	1941-up Big Twin	Transmission
12-1166	377	1930-up Big Twin	Cam Cover
12-1177	600	1979-up	Solenoid
12-1178	601	Shifter Cam	Solenoid
12-1160	603	1976-84 Big Twin	Rotor
12-1181	614, 640	1971-Early 75 Big Twin	Solenoid
12-1163	615	1970-78 All	Points
12-1164	620	1970-78 All	Points
12-1162	623	1970-78 All	Points

**Cotter Pins** are zinc plated, sold in 100 pack.

VT No.	OEM	Size
37-8660	510	1/16" — 1/2"
37-8795	511	5/32" — 1/4"
37-8659	512	1/16" — 5/8"
37-9042	515	1/16" — 3/4"
37-8786	528	3/32" — 5/8"
37-8787	531	3/32" — 7/8"
37-8661	534	3/32" — 1"
37-8788	513	3/32" — 1 5/16"
37-8789	550	1/8" — 9/8"
37-8790	559, 520W	1/8" — 1 1/4"
37-8663	566	3/16" — 1"
37-0747	Parkerized	1/16" — 1/2", 50 pk
37-0749	Parkerized	3/32" — 1", 50 pk



## Rivet



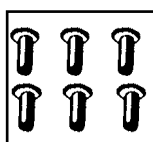
**Replacement Fender Rivets** fit all FL front and rear fenders and FX front fenders, 25 pack.

VT No.	Fits
37-6368	Big Twin Fender Brace
37-6369	Big Twin Fender Top
37-6370	FX Front, 1973-up Stainless
37-0938	Inner Primary

**Clutch and Brake Brass Rivets.**

VT No.	OEM	Type	Use	U/M
37-8805	—	Short 4-4 1/2	Brake	100 pack
37-8806	41871-31	Long 4-5	Brake	100 pack
37-8807*	8226	Short 7-4	Clutch	100 pack

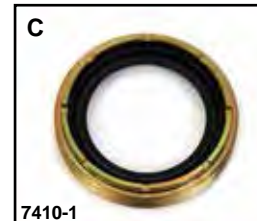
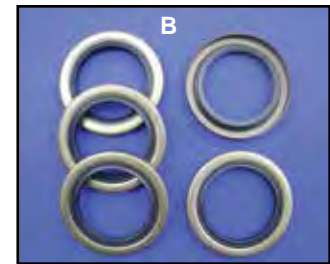
\*Note: For clutch hub friction disc.



**Fiberglass Saddlebag Rivets**, pack of 50.

VT No.	OEM	Length
37-0566	90965-63	5/16"
37-0567	90966-67	1/4"
37-0568	90967-64	3/8"

## Seal



**Big Twin Left Side Engine Case Seals**

VT No.	#	OEM	Year	Model
7411-2	A	24776-40	1936-54	61-74-80
7411-2T		24776-40	1936-54	61-74-80, V-Twin
14-0965		24031-55	1955-68	OE type
7410-1	C	24031-55	1955-68	Colony
7410-55T		24031-55	1955-68	V-Twin
7410-1-OS		Oversize	1955-68	Colony (+.002)
7410-1-US		Undersize	1955-68	Colony (-.002)
14-0177		Seal only	For above	
14-0185	B	24031-69	1969 only	Big Twin
14-0108	B	12026B	1970-99	Big Twin, 5 pack
14-0580	B	12026-B	1970-99	Big Twin, 5 pack
14-0810	B	12068	2000-up	TC-88
14-0980		12068	2000-up	TC-88

**Note:** 7410-1 and 7410-55T are a screw-in type insert with integral seal. 14-0965 is stock type screw-in without seal. 7411-2, 8211-2 both include seal, spacer & snap ring.

VT No.	OEM	Description
14-0984	61326-95	Top Plate Cork Gasket
14-0985	61381-02	Top Plate Gasket
14-0986	61402-08	Top Plate Gasket
14-0987	61402-02	Top Plate Gasket
14-0988	61402-08	Seal, Top Plate
14-0989	75245-04A	Seal, Fuel Tank
14-0990	75249-04A	Seal, Fuel Tank
14-0991	75301-07	Seal, Fuel Pump, Plate
14-0992	11324	O-ring 7.00 x 1.50 MM
14-0993	11345	O-ring
14-0980	12068	Oil Seal
14-0994	27444-00	O-ring
14-0995	34990-08	Gasket, Chain Inspection
14-0996	62673-90	O-ring FXDS
14-0997	11120	O-ring Dipstick



**Krommets** are available in traditional gold, chrome type or 10 point, 10 pack, 1/4" — 20 thread.

VT No.	Item
37-1954	Star Washer
37-0869	1 3/8" Outside Diameter Rubber Washer for Above
37-0503	Chrome Rocket with Fins
37-0501	Chrome Krommets
37-0502	Gold Krommets

**Krommets** feature 1/4" — 20 studs unless noted for decorative mounting. Available in 5 packs unless noted.

VT No.	Item
37-1100	Chrome
37-9076	Chrome Skull
37-9077	Gold Skull
37-2999	Chrome Skull, large, 5/16" — 18, no stud
37-9096	Chrome Skull, large 1/4" — 20, stud
37-9297	Chrome Skull large 5/16" — 18, stud
37-9218	Skull Valve Stem Cover, pair
37-1529	License Plate Skull Chrome Small, 1 1/8 x 1 1/8
37-1530	License Plate Skull Chrome Large, 1 1/4 x 1 1/4



# Stud



Factory Type Studs for stock applications.

VT No.	OEM	Fits
12-1197	11733	1984-up FX Transmission Stud Set
12-1187	16715-83	1985-up Evolution Exhaust, 5 pack
12-1192	16830-29	1929-up 45 Cylinder Base Set
12-2113	16830-54	1980-up Big Twin Inner Primary, Set
12-2100	16831-30	1930-77 Big Twin Cylinder Base Set
12-1188	16831-83	1985-up Evolution Top Mount
12-2107	16864-48	1948-84 Big Twin Top Mount 4 pack
12-2114	17647-48	1948-65 Panhead Rocker
9917-8	17647-48	1948-65 Panhead Rocker Arm
12-2106	17506-66	Shovelhead Rocker Box Cover Set
	17508-66	1 Head
	16864-48	10 piece Total
12-2524	Sifton	As Above
8741-19	24819-36	& 24820-36, 1936-67 Big Twin Oil Pump Set, Cadmium
12-2109	24823-80	1965-up Big Twin Kick Cover Set
12-2126	24824-67	1962-70 Carburetor 3/8"
12-1191	24914-58	1958-64 Big Twin Breather
12-2110	29254-78	1978-89 Carburetor Mount, 5/16"
12-2099	33298-36	1936-64 Big Twin Kick Cover Set
	33298-65	1965-77 Carburetor, 5/16"
12-2105	34723-47	1948-84 Big Twin Oversize Transmission, 4 pack
12-2104	34724-36A	1948-84 Big Twin Transmission Mount, 4 pack
37-6366	42301-79	1979-84 Big Twin Master Cylinder Mount, each
8813-4	45840-48	1949-76 Glide Leg, pair
8826-6	45998-73	1977 up Glide Leg, pair
	72341-48	1973-up FX Leg Stud, pair
12-2123	61605-36	1936-83 Rear Big Twin Tank Mount
8823-10	72341 48	1948-55 Big Twin Coil Mount, pair
8824-8	72341-56	1956-82 Big Twin Coil Mount, pair

# Key



Keys.		
VT No.	OEM	Fits
12-0213	11204	1980-85 XL Rear Intake Came
12-0209	11218	1981-90 XL-Big Twin Gear Shaft
		1981-90 XL-Big Twin Crank Pin
12-0215	11219	1988-99 XL Oil Pump Drive Gear
12-0216	11220	1941-81 Big Twin, 1954-81 XL Gear Shaft
12-0200	23985-12	1954-81 XL, 1930-54 Big Twin Sprocket Shaft
12-0201	23985-18	1941-81 Big Twin, 1954-81 XL Gear Shaft
12-0202	23985-54	1954-90 Big Twin Gear Shaft Pinion
12-0203	23985-56	1956-80 Big Twin Sprocket Shaft
12-0204	26340-36	1941-67 Big Twin Oil Pump Gear
12-0214	26341-37	1937-73 45", 62-71 XL Oil Pump Retainer Half
12-0205	26348-15	1971-90 Big Twin Oil Pump Gear
		1972-76 XL Breather Valve Gear
		1975-86 Big Twin Pinion Shaft
12-0206	33393-50	1941-85 Big Twin Starter Clutch
12-0207	35175-38	1941-77 Big Twin Transmission Sprocket
12-0211	35196-26	1926-73 45" Transmission Sprocket
12-0208	37523-15	1941-84 Big Twin Clutch Hub
12-0212	37523-85	1985-90 Big Twin Clutch Hub
12-0210	40390-54	1954-60 Big Twin Compensator Sprocket

# Lock Tab

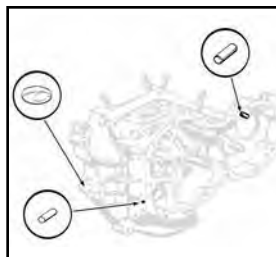


Replacement Lock Tabs.

VT No.	OEM	Fits
17-0918	7044A	Pinion Shaft 1979-up XL Gear End
17-9222	7402	1980-84 FLT-FXR Primary
17-0978	23970-36	Crank Pin 1936-40 61"
17-0914	23971-41	Crank Pin 1941-53 Big Twin, 1957-80 XL
17-0927	23971-54	Crank Pin 1954-80 Big Twin
17-0922	23982-12	45" Crank Pin 1929-73
17-0913	24015-36A	Pinion and Sprocket Shaft 1936-71 Big Twin
		Pinion only 1972-80 Big Twin, 1957-80 XL
17-0929	24016-29	Pinion/Spkt Shaft 1929-73 45" Side Valve
17-0917	24018-72	Sprocket Shaft Flywheel 1972-80 Big Twin
17-0908	25550-57	Cam Gear 1957-up Big Twin
10-1254	25554-84	Cam Gear .045 1957-up Big Twin
17-0921	25551-58	Cam Thrust Plate All 1958-up XL
17-0942	31479-65	1965-69 Big Twin Inner Primary
17-0937	—	1970-up Big Twin Inner Primary
17-0902	33082-16	Kicker & Countershaft 1941-84 Big Twin 4-Speed
17-0930	33125-89	Big Twin Starter Shaft 1989-up
17-0907	33197-79	Plunger Body Bolt 1978-84 Big Twin 4-Speed
17-0928	33318-85	Inner Primary 1985-up Big Twin
17-0905	33335-79	Transmission Sprocket 1980-83 FLT
17-0911	33362-52	Kicker Shaft All XL 1957-81
17-0903	33396-39	Kicker Clutch Gear 36-84 BT 4-Speed
17-0916	34066-52	Cam Follower 1952-78 Big Twin
17-0923	34067-52	Shifter Cam Retainer All 1957-85 XL
17-0919	34069-71	Shifter Cam 1954-up XL
17-0906	34180-33	Shifter Forks 1936-84 Big Twin 4-Speed
17-0943	34747-65	Transmission Plate 1965-84 Big Twin
17-0900	35050-40	Mainshaft Bearing 1940-84 Big Twin 4-Speed
17-0910	35050-52	Transmission Sprocket All 1952-up XL
17-0933	35216-26	45" Transmission Sprocket 1929-73
17-0901	35216-36	Transmission Sprocket 1936-84 Big Twin
17-0925	37462-41	45" Clutch Hub Nut 1936-84
17-0904	37503-41	Clutch Hub Nut 1941-84 Big Twin
17-0912	37533-52A	Clutch Hub All 1957-84 XL
17-0915	39996-65	Primary Adjuster 1965-up Big Twin
17-0934	40251-91	Pulley Lock Tab
17-0935	42575-30	Mechanical Brake Shaft 1936-57 Big Twin
17-0924	45717-63	Stem Nut 1960-85 FL's
17-0936	45752-50	Adjustable Fork Top Clamp
17-0909	47513-58	Swing Arm Bolt 1958-84 Big Twin
17-0920	47525-52	Swing Arm 1952-80 XL
17-0941	59166-80	FL Front Fender
17-0926	—	Transmission Lock Kit All Big Twin
39-0155	71069-47	Dash Stud L1947-67 Big Twin
49-2531	87136-36	Side Car Mount Lock Tab, 5 pack



Stud Installer Set. 9 Piece fits 1/4, 5/16, 3/8 and 7/16. VT No. 2398-9



Hardware for Early Cases, 5 pack.

VT No.	Size
12-0599	1/2" Welch Plug
12-0595	9/16" Welch Plug
12-0596	3/8" Welch Plug
12-0623	.619 Welch Plug
12-1166	Timing Cover Pin



# Snap Cap™ *Easy to Install!!*

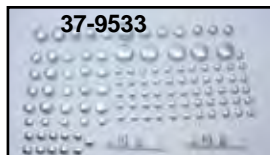
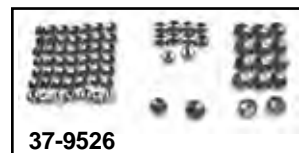
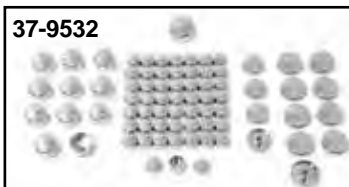
- Snap On
- Tight Fit
- Easy Installation

*Walt Stelling*



## Chrome Bolt Cap Cover Kit

VT No.	Model	Kit Quantity
<b>Touring</b>		
37-9526	2007-08	75
37-9539	2009-up	126
37-9540	1999-08	148
<b>Dyna</b>		
37-9541	1999-up	156
37-9528	2006-up	76
37-9529	1999-05	86
<b>Softail</b>		
37-9543	1999-up	175
37-9530	2007-up	81
37-9531	2000-06	87
37-9536	2009-up	125
<b>Engine</b>		
37-9535	TC-88	79
<b>Sportster</b>		
37-9532	2004-up	77
37-9534	2004-up Engine	63
37-9533	1984-03	74



These new bolt cover kits will make any bike look great and are also for custom builders use. Easy to install these new kits have beautifully designed pieces to cover the raw OE bolt heads on engine, transmission, primary and more, each kit includes detailed instruction for installation on each model as listed, all covers in each kit are individually packed and numbers for identification. installation has never been easier.



**Chrome Cap Assortment** includes 100 piece each 1/4", 5/16" and 3/8" caps.

VT No. 37-1505

## 100 Pieces!



**Chrome Pasties** are allen head bolt covers which install with a set screw for positive hold. Sold in pairs, for screw thread size listed.

VT No.	Size	U/M
37-8923	1/4"	2
37-8925	5/16"	2
37-0962	3/8"	4 piece set

# Chrome Cap



**Chrome End Caps for Allen Bolts** fit 1/4", 5/16" and 3/8" allen bolts (thread size). Available in an assortment tray with 100 of each and in refill packs of 10 or 50 packs.

VT No.	Item	Quantity	Material
37-9198	1/4" Refill Bag	100	ABS
37-9199	5/16" Refill Bag	100	ABS
37-9200	3/8" Refill Bag	100	ABS



**Press in Caps** for allen screws.

VT No.	Size	Qty
2164-100	1/4"	100
2165-100	5/16"	100
2166-100	3/8"	100

**Snap Caps™** snap on knurled allen screws for ease of installation. Packs of 25 or 100.

100 pack	25 pack	Fits
37-1502	37-1526	1/4"
37-1503	37-1527	5/16"
37-1504	37-1528	3/8"
300 Pieces		
37-1505	—	Assortment

- Snap On
- Tight Fit
- Easy Installation
- Universal Use



**Chrome Hole Plugs** snap in as replacements.

VT No.	OEM	Use/Model
37-8349	60650-54A	1955-64 Primary Big Twin
28-0618	56238-62	1962-up Handlebar Grip
37-8994	Stainless	1962-up Spotlight Bar
28-1500	67830-59	Visor Plug
37-9304	68797-68A	1968-84 Big Twin Swing Arm Frame







# Chrome and Zinc Plated Bolt



**Chrome Plated Bolts** are

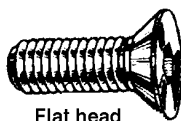
sold in 10 packs.

**Zinc Plated Bolts** are

sold in 25 packs.



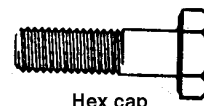
Button head



Flat head



Socket cap



Hex cap

Size	CHROME Allen Button Head		CHROME Allen Flat Head		CHROME KNURLED Allen Socket Cap		CHROME Hex Cap Bolt		ZINC Hex Cap Bolt	
	Coarse UNC	Fine SAE	Coarse UNC	Fine SAE	Coarse UNC	Fine SAE	Coarse UNC	Fine SAE	Coarse UNC	Fine SAE
1/4 — 1/2	37-8700	37-8725	37-0153	37-0106	37-8356	—	—	—	—	—
1/4 — 5/8	37-8701	37-8726	37-0154	—	37-8300	37-8324	37-8602	37-8573	37-0600	37-0628
1/4 — 3/4	37-8702	37-8727	37-0155	37-0107	37-8301	37-8325	37-8603	37-8574	37-0601	37-0629
1/4 — 7/8	37-8703	37-8728	37-0156	—	37-8302	37-8326	37-8604	—	37-0602	37-0630
1/4 — 1	37-8704	37-8729	37-0157	37-0108	37-8303	37-8327	37-8605	37-8576	37-0603	37-0631
1/4 — 1	37-8704	37-8729	37-0157	37-0108	37-8303T	37-8327	37-8605	37-8576	37-0603	37-0631
1/4 — 1 1/4	37-8705	37-8730	37-0158	37-0109	37-8304	37-8328	37-8606	37-8577	37-0604	37-0632
1/4 — 1 1/4	37-8705	37-8730	37-0158	37-0109	37-8304T	37-8328	37-8606	37-8577	37-0604	37-0632
1/4 — 1 1/2	37-8706	37-8731	37-0159	37-0110	37-8305	37-8329	37-8607	37-8578	37-0605	—
1/4 — 1 3/4	37-8707	—	37-0160	—	37-8306	37-8330	—	—	37-0606	37-0634
1/4 — 1 3/4	37-8707	—	37-0160	—	37-8306T	37-8330	—	—	37-0606	37-0634
1/4 — 2	37-8708	—	37-0161	—	37-8307	—	37-8609	—	37-0607	37-0635
1/4 — 2 1/4	37-8709	—	—	—	37-8308	—	—	—	37-0608	37-0636
1/4 — 2 1/4	37-8709	—	—	—	—	—	—	—	37-0608	37-0636
1/4 — 2 1/2	37-8710	—	37-0163	—	—	—	—	—	—	—
1/4 — 2 5/8	37-8738	—	—	—	—	—	—	—	—	—
5/16 — 1/2	37-8711	37-8732	37-0164	—	—	—	—	—	—	37-0550
5/16 — 5/8	—	37-8798	—	—	37-8309	37-8331	37-8611	37-8582	37-0609	37-0637
5/16 — 5/8	—	37-8798	—	—	37-8309T	37-8331	37-8611	37-8582	37-0609	37-0637
5/16 — 3/4	37-8712	37-8733	37-0165	37-0115	37-8310	37-8332	37-8612	37-8583	37-0610	37-0638
5/16 — 7/8	—	—	37-0166	—	37-8311	37-8333	37-8613	37-8584	37-0611	37-0639
5/16 — 1	37-8713	37-8734	37-0167	37-0116	37-8312	37-8334	37-8614	37-8585	37-0612	37-0640
5/16 — 1 1/4	37-8714	37-8735	—	37-0117	37-8313	37-8335	37-8615	37-8586	37-0613	37-0641
5/16 — 1 1/2	37-8716	37-8736	37-0169	37-0118	37-8314	37-8336	37-8616	37-8587	—	37-0642
5/16 — 1 3/4	37-8717	37-8737	37-0170	—	37-8315	37-8337	37-8981	—	37-0615	37-0643
5/16 — 2	37-8718	—	—	—	37-8316	—	37-8617	—	37-0616	37-0644
5/16 — 2 1/4	—	—	—	—	37-8317	37-8339	37-8618	37-8590	37-0617	37-0645
5/16 — 3 1/2	—	—	—	—	37-8462	—	—	—	—	—
5/16 — 3 1/2	—	—	—	—	37-8462T	—	—	—	—	—
5/16 — 24 — 3 1/2	—	—	—	—	37-8463	—	—	—	—	—
5/16 — 24 — 3 1/2	—	—	—	—	37-8463T	—	—	—	—	—
5/16 — 24 — 3 1/4	—	—	—	—	37-8464	—	—	—	—	—
5/16 — 24 — 3 1/4	—	—	—	—	37-8464T	—	—	—	—	—
3/8 — 3/4	37-8719	37-8739	37-0173	37-0122	37-8318	37-8340	37-8619	37-8591	37-0618	—
3/8 — 7/8	37-8355	—	—	—	—	—	—	—	—	—
3/8 — 1	37-8720	37-8740	37-0174	37-0123	37-8319	—	37-8620	37-8592	37-0619	37-0647
3/8 — 1 1/4	37-8721	37-8741	—	37-0124	37-8320	—	37-8621	37-8593	37-0620	37-0648
3/8 — 1 1/2	37-8722	37-8742	—	37-0125	37-8321	37-8343	37-8622	37-8594	37-0621	37-0649
3/8 — 1 3/4	37-8723	37-8743	—	—	37-8322	—	37-8623	37-8595	37-0622	37-0650
3/8 — 2	37-8724	37-8744	37-0178	—	37-8323	—	37-8624	37-8596	37-0623	37-0651
3/8 — 2 1/4	—	—	—	—	—	37-8346	—	—	—	—
3/8 — 16 — 2 1/4	—	—	—	—	37-8354	—	—	—	—	—
3/8 — 2 1/2	—	—	—	—	37-8352	37-8347	—	—	—	—
3/8 — 16 — 3 1/2	—	—	—	—	37-8353	—	37-8682	—	37-8658	—
7/16 — 1	—	—	—	—	—	—	—	37-8597	—	—
7/16 — 1 1/4	—	—	—	—	—	—	37-8625	37-8598	37-0625	—
7/16 — 1 1/2	—	—	—	—	—	—	37-8626	37-8599	37-0626	37-0654
1/2 — 1 1/2	—	—	—	—	—	—	—	—	—	—
1/2 — 2	—	—	—	—	—	—	—	—	—	—
1/2 — 2 1/4	—	—	—	—	—	—	37-8627	37-8600	—	—
1/2 — 2 1/2	—	—	—	—	—	—	37-8980	37-8601	—	—
1/2 — 2 3/4	—	—	—	—	—	—	37-0793	37-0795	—	—



# Spacer

## Zinc Spacers

VT No.	ID	OD	L
37-0469	1/4	15/32	5/32
37-0404	1/4	9/16	3/4
37-0405	1/4	9/16	3/4, Black
37-0473	5/16	1/2	1/2
37-0406	5/16	5/8	1/4
37-0428	5/16	3/4	1/4
37-0408	5/16	3/4	1/4
37-0410	5/16	5/8	3/8
37-0411	5/16	7/8	3/8
37-0412	5/16	5/8	3/4
37-0413	5/16	5/8	1 1/8
37-0454	5/16	1/2	5/8
37-0455	5/16	1/2	1/2
37-0984	5/16	1/2	2 1/4, Black
37-0458	3/8	3/4	5/8
37-0414	3/8	1	1
37-0430	3/8	1	1 1/4
37-1018	3/8	1	1 5/16, Black
37-0417	25/64	1	1/2
37-0954	3/8	5/8	1/2
37-1210	7/16	1 1/8	1
37-0431	1/2	5/8	1 1/4, Black
37-0418	1/2	1	1 1/2
37-0418T	1/2	1	1 1/2
37-0439	1/2	3/4	1
37-0420	1/2	3/4	2 1/4
37-0421	5/8	1	1 1/4
37-0421T	5/8	1	1 1/4

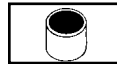
## Chrome Steel Spacers.

### Pack of 5.

VT No.	ID	OD	L
37-0447	1/2	5/8	1 1/4
37-0459	1/4	1/8	5/8
37-0460	1/4	5/8	1
37-0462	5/16	5/8	1/4
37-0463	5/16	5/8	3/8
37-0464	5/16	5/8	1/2
37-0465	5/16	5/8	3/4
37-0466	3/8	3/4	3/8
37-0467	3/8	3/4	3/4
37-0445	3/8	5/8	1
37-0468	3/8	3/4	1

## Aluminum

VT No.	ID	OD	L
37-0422	1/4	5/8	5/8
37-0423	5/16	1 1/16	7/16
37-0424	3/8	1	7/8
37-0425	3/8	5/8	1 1/8



## Chrome Steel Spacer 10 pack.

VT No.	ID	OD	L
37-0433	5/32	1/4	1/2
37-0457	5/32	15/32	1/2
37-8628	1/4	7/16	3/16
37-8629	1/4	7/16	1/4
37-8630	1/4	7/16	3/8
37-0470	1/4	1/2	3/32
37-0435	1/4	3/4	1/2
37-8631	1/4	7/16	5/8
37-8632	1/4	7/16	3/4
37-8633	1/4	7/16	7/8

VT No.	ID	OD	L
37-8635	5/16	1/2	17/32
37-0400	5/16	3/4	1
37-0401	5/16	5/8	1 1/8
37-0401T	5/16	5/8	1 1/8
37-8636	3/8	9/16	1/8
37-8637	3/8	13/16	1/2
37-0402	3/8	3/4	1/2
37-0403	3/8	5/8	7/8
23-0600	3/8	9/16	1/4 (a)
23-1742	3/8	3/4	3/16 (b)
37-8638	7/16	1 1/16	5/16
37-0448	5/8	3/4	1

(a): Replaces 44132-72 Disc Brake Caliper Washer

(b): Replaces 50668-35 1958-78 Master Cylinder Spacer

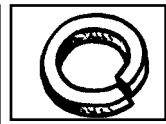
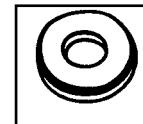
**Chrome Countersunk Washer Sets** are the 82° type to accept flat head socket screws.

VT No.	Size	Quantity
9843-8	#10	8
9835-8	5/16"	8
9836-5	3/8"	5
9844-5	7/16"	5



**Chrome Top Engine Mount Spacer Set** for spacing out top mount or wide tire conversions. Spacers have 7/16" inner diameter with 1 1/8" outside diameter.

VT No.	Thickness
37-0419	3/4"
37-0419T*	3/4" *Note: Zinc
37-0437	1/2"



# Washer



**Lockwasher Biter Assortment** includes 50 pieces of each size.  
VT No. 37-0535

## Lock Washers

Zinc	Chrome	OEM	Inner Diameter	Qty.
37-0689	37-9053	—	#8	100
37-0852	—	—	#10	25
37-0690	—	6998	1/4"	100
—	37-9054T	6998	1/4"	100
—	9516-12	6998	1/4"	12
37-0691	37-9055	7041	5/16"	100
—	9517-12	7041	5/16"	12
37-0692	37-9056	7038	3/8"	100
—	9518-6	7038	3/8"	6
37-0693	37-9057	7039	7/16"	100
—	9519-6	7039	7/16"	6
49-1499	—	7/16"	<b>Note:</b> Parkerized, sold each.	
37-0694	37-9058	7068	1/2"	100
37-0798	—	7238	1/2"	25
—	9971-5	—	1/2"	5
37-0695	37-9059	7022	5/8"	50

## Flat Washers

Zinc	Chrome	Inner Diameter	Type	Qty.
—	37-8557	#8	Standard	100
—	37-8558	#10	Standard	100
—	8166-12	1/4"	Standard	12
—	8166-12T	1/4"	Standard	12
37-0683	37-8559	1/4"	Standard	100
—	8167-12	5/16"	Standard	12
37-0684	37-8560	5/16"	Standard	100
—	37-8560T	5/16"	Standard	100
—	8168-6	3/8"	Standard	6
37-0685	37-8561	3/8"	Standard	100
—	8169-6	7/16"	Standard	6
37-0686	37-8562	7/16"	Standard	100
37-0687	37-8563	1/2"	Standard	100
—	9972-5	1/2"	Standard	5
37-0688	37-8564	5/8"	Standard	50
37-9273**	37-8565	5/8"	5/8" (Outside Diameter) OE	100
37-9272	—	1/4"	OE	25
—	9633-50	1/4"	OE	50
—	9633-50T	1/4"	OE	50
—	37-8567*	1/4"	Special	50
—	2115-12*	1/4"	Special	12
—	37-8568*	5/16"	Special	50
—	2110-12*	5/16"	Special	12
—	37-8569*	3/8"	Special	50
—	2114-6*	3/8"	Special	6
—	37-8570*	7/16"	Special	50
—	2112-6*	7/16"	Special	6
—	37-8571*	1/2"	Special	25
—	37-8572*	5/8"	Special	25

**\*Note:** Extra thick with tighter fitting inner diameter than standard SAE washers.

**\*\*Note:** 25 pieces per pack



# Nut

Thread Size Application Chart			
Fine Size	Thread Type	Coarse Size	Thread Type
1/4-28	SAE	1/4-20	UNC
5/16-24	SAE	5/16-18	UNC
3/8-24	SAE	3/8-16	UNC
7/16-20	SAE	7/16-14	UNC
1/2-20	SAE	1/2-13	UNC
9/16-18	SAE	9/16-12	UNC



6901-5

Pike Nuts, Fine			Pike Nuts, Coarse		
VT No.	Size	U/M	VT No.	Size	U/M
6901-5	10-32 SAE	5 pack	6910-5	10-24	5 pack
6902-5	1/4-28 SAE	5 pack	6911-5	1/4-20	5 pack
6900-5	1/4-24 HD	5 pack	6912-4	5/16-18	4 pack
6903-4	5/16-24 SAE	4 pack	6913-3	3/8-16	3 pack
6904-3	3/8-24 SAE	3 pack	6914-2	7/16-14	2 pack
6905-2	7/16-20 SAE	2 pack	6915-1	1/2-13	Each
6906-1	1/2-20 SAE	Each	6916-1	9/16-12	Each
6907-1	9/16-18 SAE	Each	6917-1*	5/8-11, (1")	Each
6908-1*	5/8-18 SAE, (1")	Each	6918-1*	5/8-11, (1 1/4")	Each
6908-1T	5/8-18 SAE, (1")	Each			
6909-1*	5/8-18 SAE, (1 1/4")	Each	*Note: Hex Size		
6909-1T	5/8-18 SAE, (1 1/4")	Each	*Note: Hex Size		
44-0647*	3/4-16 SAE, (1 1/4")	Pair			



Cap Nuts, Fine			Cap Nuts, Coarse		
VT No.	Size	U/M	VT No.	Size	U/M
8415-5	10-32,	5 pack	8423-5	10-24	5 pack
8416-5	1/4-28	5 pack	8424-5	1/4-20	5 pack
8417-4	5/16-24	4 pack	8425-4	5/16-18	4 pack
8418-3	3/8-24	3 pack	8426-3	3/8-16	3 pack
8419-2	7/16-20	2 pack	8427-2	7/16-14	2 pack
8420-1	1/2-20	Each	8428-1	1/2-13	Each
8422-1*	5/8-18, 15/16"	Each	8429-1	9/16-12	Each
*Note: Hex Size			8430-1*	5/8-11 15/16"	Each
			*Note: Hex Size		



6930-5

Acorn Nuts, Fine			Acorn Nuts, Coarse		
VT No.	Size	U/M	VT No.	Size	U/M
6930-5	1/4-24 HD	5 pack	6941-5	10-24	5 pack
6931-5	10-32	5 pack	6942-5	1/2-20	5 pack
6932-5	1/4-28	5 pack	6943-4	5/16-18	4 pack
			6943-4T	15/16-18	4 pack
6933-4	5/16-24	4 pack	6944-3	3/8-16	3 pack
6933-4T	5/16-24	4 pack			
6934-3	3/8-24	3 pack	6945-2	7/16-14	2 pack
6935-2	7/16-20	2 pack	6946-1	1/2-13	Each
			6946-1T	1/2-13	Each
6936-1	1/2-20	Each	6947-1	9/16-12	Each
6937-1	9/16-18	Each	6948-1*	5/8-11 (15/16)	Each
6938-1*	5/8-18, (15/16)	Each	*Note: Hex Size		
6938-1T*	5/8-18, (15/16)	Each			
6939-1*	3/4-16, (1 1/8)	Each			
6939-1T*	3/4-16, (1 1/8)	Each			
6940-1*	5/8-18, (1 1/4)	Each			
37-0889	3/4-16, (1 1/4)	Each			



Hex Nuts sold either in zinc or chrome, Nylloc or Standard. Nylloc features a plastic insert for vibration proof mounting, 20 pack for chrome and 50 pack for zinc

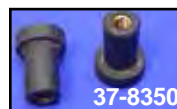
Chrome Standard	Chrome Nylloc	Zinc Standard	Zinc Nylloc	Size
—	—	39-0166	—	9/32
—	—	39-0167	—	9/32
37-8110	37-8119	37-0657	37-0666	1/4-20
37-8111	37-8120	37-0658	37-0667	1/4-28
37-8112	37-8121	37-0659	37-0668	5/16-18
—	37-8121T	—	—	5/16-18
37-8113	37-8122	37-0660	37-0669	5/16-24
37-8113T	37-8122T	—	—	5/16-24
37-8114	37-8123	37-0661	37-0670	3/8-16
37-8115	37-8124	37-0662	37-0671	3/8-24
37-8115T	—	—	—	3/8-24
37-8116	37-8125	37-0663	37-0672	1/2-20
37-8116T	—	—	—	1/2-20
37-8117	37-8126	37-0664	37-0673	7/16-20
37-8117T	—	—	—	7/16-20
—	37-8127*	—	37-0674	5/8-18
37-8145	—	—	—	5/8-11

\*Note: Sold in 10 pack.



Flexloc Nuts Replicas are all metal, cadmium plated.

VT No.	Size	VT No.	Size
37-9144	10/24	37-0875	5/16-18
37-0850	10/32	37-9146	5/16-24
37-9150	1/4-20	37-0876	3/8-16
37-9145	1/4-28 Fine	37-9149	1/2-20
12-0571	5/16-24 Thin		
9918-8	5/16-24 Thin 8pc		



Well-Nuts are rubber inserts which press in panels as threaded inserts.

VT No.	OEM	Thread	Type
37-9193	5210	9/32	Headlight
37-9194	5207	10/32	Module
37-8348	8099	1/4-20	FXR Cover
37-8350	8098	10/24	FXR Horn Mount



Red Cap Nuts are replica nuts as used on rocker shaft ends. Available in popular sizes for matching engine and transmission, SAE fine thread only.

VT No.	Size
37-8778	10-32
37-8783	1/2-20





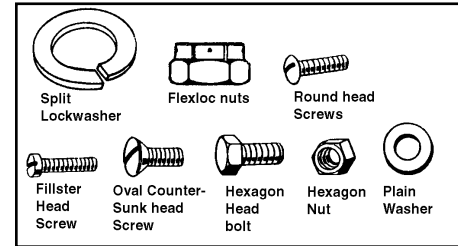
# Factory Type Washer, Nut and Screw

**Replica Steel Washers.** Zinc plated unless noted. Check Parts Book for fitment.

VT No.	OEM	Size/Thickness
37-9307	6001	7/16 — 3/4 — 1/16, Black
37-9333	6002	5/16 — 5/8 — 1/16
37-9340	6011	3/32 — 5/16 — 1/32, Brass
37-9195	6016	11/32 — 11/16 — 1/16
37-9266	6019	3/8 — 29/32 — 1/16
37-0836	6026	3/8 — 7/8 — 7/64
37-0801	6033	3/8 — 9/16 — 1/16
37-0802	6052	9/16 — 5/16 — 1/16
37-9339	6053	3/16 — 7/16 — 1/16, Nylon
37-9338	6054	3/16 — 9/16 — 1/16, Nylon
37-9352	6072	3/8 — 1 1/4 — 1/16
37-0532	6083	3/8 — 2 — 3/50
37-9267	6099	1/4 — 7/16 — 1/16
37-9268	6109	5/16 — 11/16 — 1/8
37-9269	6113	1/2 — 13/16 — 1/32
37-9270	6115	13/32 — 23/32 — 1/16
9985-24	6150	3/16 — 3/8 — 1/16, Cadmium
14-0031	6156	3/16 — 3/8, Brass (5)
37-0843	6187W	13/64 — 9/16 — 1/16
37-9271	6189W	#8 — 3/8 — 1/32
37-9309	6192	#8 — 7/16 — 3/64
37-0856	6194	13/64 — 1 1/16 — 3/64
37-9337	6228W	1/4 — 1/2 — 1/16
37-9336	6229W	5/16 — 1 1/16 — 3/64
23-1700	6230	11/32 — 13/32 x 4/125
37-9043	6220W	1/4 — 7/16 — 1/32
37-9319	6235	1/4 — 23/32 — 1/16
37-9298	6237	5/16 — 1 1/8 — 5/64
37-9394	6239	1/4 — 1/2 — 3/32
37-9272	6242W	1/4 — 9/16 — 1/32
37-9523	6310	1/4 — 9/16 — 1/32
37-9273	6316HW	9/16 — 5/16 — 1/32
37-9335	6317	3/4 — 1 1/2 — 1/32, Nylon
12-1158	6320	5/16 — 5/8 — 1/16
37-9362	6324W	5/16 — 11/16 — 1/16
37-9274	6327B	5/16 — 3/4 — 3/64
37-9347	6329	5/16 — 7/8 — 5/64
37-0837	6332B	5/16 — 15/16 — 3/64
37-9275	6333	5/16 — 7/8 — 5/64
37-0811	6365	1/2 — 1 1/4 — 1/16
12-0418	6366	1/2 — 1 1/4 — 3/32
37-9310	6379W	3/8 — 5/8 — 3/64
37-0838	6388HB	3/8 — 23/32 — 1/16
37-9326	6341B	5/16 — 1 1/8 — 3/64
37-9276	6334	7/16 — 1 — 1/8
37-0838	6388HB	3/8 — 23/32 — 1/16
37-9277	6395B	3/8 — 13/16 — 1/16
37-0839	6408	25/64 — 55/64 — 1/8
37-0797	6408	25/64 — 55/64 — 1/8, Zinc
37-8858	6410	1/4 — 9/16 — 1/16, Nylon
54-0432	6415W	3/8 — 1 1/8 — 3/32
37-9278	6417W	3/8 — 1 1/8 — 1/8
37-9324	6418B	3/8 — 1 1/8 — 11/64
12-9918	6443W	13/32 — 11/16 — 1/16
37-9313	6440	13/32 — 11/16 — 1/32
12-1193	6466W	13/32 — 5/8 — 1/32
8170-10	6469HW	7/16 — 3/4 — 1/8
37-9239	6469	7/16 — 3/4 — 1/8
37-9279	6473HB	29/64 — 51/64 — 1/16
37-0570	6474	3/8 — 13/16 — 5/32
37-9280	6481	15/32 — 13/16 — 9/64
37-9281	6486HW	29/64 — 13/16 — 3/32
37-9283	6495HW	7/16 — 15/16 — 1/8
37-9133	6495HW	7/16 — 1 1/8 — 3/64
37-9320	6516W	7/16 — 1 1/8 — 1/8
37-9284	6521W	7/16 — 1 1/8 — 3/32
37-9285	6522HB	7/16 — 1 1/8 — 5/32

## Washers Continued

37-9286	6524W	7/16 — 1 1/8 — 1/32
37-0010	6543	31/64 — 3/4 — 1/64
37-0011	6565W	1/2 — 3/4 — 3/32
37-9305	6645	31/64 — 11/32 — 1/8
37-9291	6653A	5/8 — 1 5/16 — 3/32
37-9292	6655	5/8 — 1 1/2 — 3/32
37-9308	6663HB	9/16 — 1 1/8 — 3/32
37-0696	6701	3/8 — 13/16 — 1/16
37-9287	6702	5/16 — 11/16 — 1/16
37-0697	6703	1/4 — 5/8 — 1/16
37-9351	6716	#10 — 1/2 — 3/64
54-0437	6724W	21/32 — 1 1/16 — 1/16
37-9135	6736	9/32 — 5/8 — 1/16
12-1157	6737	57/64 — 1 3/64 — 1/32
37-9288	6738	17/32 — 7/8 — 7/64
37-9344	6758	3/8 — 37/64 — 1/16
37-9342	6759	3/16 — 3/8 — 1/32
37-9323	6771A	21/64 — 33/64 — 1/16
37-9361	6780	11/16 — 29/32 — 1/16
37-0791	6788	5/16 — 1 — 1/16, Stainless Steel
37-9353	6804	1/2 — 1 1/8 — 1/16
37-0857	6807W	1/2 — 3/4 — 1/32
37-9325	6846	29/64 — 71/200 — 1/16
37-0814	7400HB	3/8 — 13/16 — 7/64
<b>Nuts</b>		
37-0436	10-24 Hex Nut	
37-0701	1/4 -28 N.F. Thread Acorn Nut, Chrome	
37-0702	1/4 -20 N.C. — 1/4 — 1/2" Hex Nut	
37-0703	1/4 -24 N.S. — 5/32 — 7/16 Hex Nut	
37-0704	1/4 -24 N.S. — 1/4 — 1/2 Hex Nut	
37-0706	5/16 -18 N.C. — 17/64 — 1/2 Hex Nut	
37-0707	5/16 -24 N.F. — 17/64 — 1/2 Hex Nut	
37-0829	5/16 -24 N.F. — 17/64 — 1/2 Hex Nut	
	Cadmium	
37-0708	5/16-24 N.F. — 5/16 — 9/16 Hex Nut	
37-0709	3/8 -24 N.F. — 1/4 — 9/16 Hex Nut	
37-0710	3/8 -24 N.F. — 21/64 — 9/16 Hex Nut	
37-0712	3/8 -24 N.F. — 1/2 — 9/16 Hex Nut	
37-0714	7/16 -20 N.F. Thread Flexloc Nut	
37-0715	7/16 -20 N.F. — 1/4 — 9/16 Hex Nut	
37-0716	7/16 -20 N.F. — 1/4 — 5/8 Hex Nut	
37-0717	7/16 -20 N.F. — 3/8 — 5/8 Hex Nut	
37-0718	7/16 -20 N.F. — 3/8 — 5/8 Hex Nut	
37-0719	7/16 -20 N.F. — 1/2 — 5/8 Hex Nut	
37-0720	7/16 -20 N.F. — 3/8 — 3/4 Hex Nut	
37-0721	7/16 -20 N.F. — 7/16 — 3/4 Hex Nut	
37-0862	7/16 -20 N.F. (7859) Hex Nut	
37-0871	7/16 -20 N.F. (7859) Hex Nut, Chrome	
37-0723	1 1/2"-20 N.F. x. 3/8 — 3/4 Hex Nut	
37-0724	1 1/2"-20 N.F. — 5/16 — 13/16 Hex Nut	
37-0725	1 1/2"-20 N.F. — 7/32 — 7/8 Hex Nut	
37-0726	1 1/2"-20 N.F. — 7/16 — 7/8 Hex Nut	
37-0727	1 1/2"-20 N.F. — 17/32 — 7/8 Hex Nut	
37-0728	9/16"-18 N.F. — 11/32 — 15/16 Hex Nut	
37-0729	9/16"-18 N.F. — 1/2 — 15/16 Hex Nut	
37-0731	5/8"-18 N.F. — 7/16 — 7/8 Hex Nut	
37-0733	1"-20 N.E.F. — 3/8 — 1 3/8 Hex Nut	
<b>Washers</b>		
37-0737	3/16 — 7/16 — 1/32 Plain Steel Washer	
37-0738	1/4 — 5/8 — 1/16 Plain Steel Washer	
37-0740	5/16 — 1/2 — 1/16 Plain Steel Washer	
37-0741	5/16 — 11/16 — 1/16 Plain Steel Washer	
37-0742	25/64 — 1 — 1/8 Plain Steel Washer	
37-0743	3/8 — 13/16 — 1/16 Plain Steel Washer	
37-0744	7/16 — 15/16 — 1/8 Plain Steel Washer	
37-0746	8-32 N.C. — 5/8 Round Head Screw	



**Parkerized finish unless noted otherwise.**



## Screws

37-0739	8-32 N.C. — 3/8 Fillister Head Screw
37-0736	8-32 N.C. — 1/4 Round Head Screw
37-0750	10-24 N.C. — 1/2 Fillister Head Screw
37-0751	10-32 N.F. — 1/4 Round Head Screw
37-0752	10-32 N.F. — 3/8 Fillister Head Screw
37-0753	10-32 N.F. — 1/2 Fillister Head Screw
37-0851	10-32 N.F. — 1/2 Flathead Screw, SS
12-0583	10-32 N.F. — 5/8 Fillister
37-0755	1/4 — 15/32 Countersunk Shake Proof Washer, Parkerized
37-0756	10-32 N.F. — 5/8 Fillister Head Screw
37-0757	5/16 — 5/8 Countersunk Shake Proof Lockwasher, Parkerized
12-0583	10-32 N.F. x 5/8 Fillister Head Screw, Zinc
37-0953	12-24 N.C. x 1/2 Fillister Zinc
37-0758	10-24 N.C. x 1/2 Fillister Head Screw
37-0956	10-24 x 5/8 Fillister, Stainless Steel
37-0759	12-24 N.C. — 13/16 Oval Countersunk
37-0760	12-24 N.C. — 1/2 Oval Countersunk
37-0761	1/4-24 N.S. — 7/16 Round Head Screw
37-0762	1/4-24 N.S. — 1/2 Round Head Screw
37-0763	1/4-24 N.S. — 5/8 Round Head Screw
37-0764	1/4-24 N.S. — 5/8 Round Head Screw, Chrome
37-0834	1/4-24 N.S. — 5/8 Round Head Screw, Cadmium
37-0765	1/4-24 N.S. — 3/4 Hexagon Head Bolt
37-0766	1/4-24 N.S. — 1 1/8 Oval Countersunk
37-0767	1/4-24 N.S. — 13/16 Oval Countersunk
37-0768	5/16-24 N.F. — 3/4 Hexagon Head Bolt
37-0769	5/16-24 N.F. — 7/8 Hexagon Head Bolt
37-0770	5/16-24 N.F. — 1 Hexagon Head Bolt
37-0771	5/16-24 N.F. — 1 1/8 Hexagon Head Bolt
37-0774	3/8-16 N.C. — 1 3/8 Hexagon Head Bolt
<b>Flatwashers and Lockwashers</b>	
37-0777	1/4 Parkerized Flatwashers
37-0778	1/4 Parkerized Lockwashers
37-1022	#6 Lockwashers
37-1023	#8 Lockwashers
37-0779	#10 Parkerized Flatwashers
37-0780	#10 Parkerized Lockwashers
37-0781	#12 Parkerized Flatwashers
37-0782	#12 Parkerized Lockwashers
37-0783	3/8 Parkerized Flatwashers
37-0784	3/8 Parkerized Lockwashers
37-0785	5/16 Parkerized Flatwashers
37-0786	5/16 Parkerized Lockwashers
37-0828	5/16 Cadmium Lockwashers
37-0787	7/16 Parkerized Flatwashers
37-0788	7/16 Parkerized Lockwashers
37-0789	#8 Parkerized Flatwashers
37-0790	#8 Parkerized Lockwashers
<b>Cotter Pin</b>	
37-0747	1/16 — 1/2 Cotter Pin
37-0749	3/32 — 1 Cotter Pin



# Cloth Patches Sold as a pair except where noted.



- Cloth Patches can be ironed or sewn on. Sold as a pair unless noted.
- |                                |                             |                               |                                    |                                   |
|--------------------------------|-----------------------------|-------------------------------|------------------------------------|-----------------------------------|
| 48-0368 Sifton Handshake       | 48-1340 Super X             | 48-1481 B and M Shifter       | 48-1764 Oilzums                    | 48-2289 Stelling & Helling's Co   |
| 48-0369 AEE                    | 48-1341 Yale                | 48-1482 Lodge Spark Plug      | 48-1772 Joe Hunt Early             | 48-2290 Klieg Newburgh            |
| 48-0472 Joe Hunt Rectangle     | 48-1342 Iver Johnson        | 48-1483 DuCoil                | 48-1777 Avon Mud Plugger           | 48-2291 Hudson Valley AMCA        |
| 48-0544 Tedd Cycle, 1969       | 48-1343 Linkert Air Dam     | 48-1484 POSA Fuel             | 48-1780 Matchless                  | 48-2292 Vertical Magneto          |
| 48-0634 Shovelhead             | 48-1346 VL Spark Plug       | 48-1485 McCulloch             | 48-1781 York Drive Train           | 48-2293 Superior Dixie            |
| 48-0930 Purple Heart           | 48-1347 V-Twin Customizer   | 48-1486 Daytona Race          | 48-1782 1964 World's Fair          | 48-2294 NYS License Plate         |
| 48-0946 Sifton Pack            | 48-1348 Servi Cycle         | 48-1487 KLG                   | 48-1783 Square V-Twin Mfg.         | 48-2295 Angola Roller Rink        |
| 48-1064 Knucklehead Wings      | 48-1349 Hap Jones 50 years  | 48-1488 Speed Industry        | 48-1785 National Custom Cycle      | 48-2297 Oilzums Bike              |
| 48-1163 Knucklehead            | 48-1350 British Patent Tag  | 48-1489 CZ Motorcycle         | 48-1786 Hurst                      | 48-2298 Triangle Chicago          |
| 48-1164 Line Knucklehead       | 48-1354 Hap Jones Tank      | 48-1491 Stromberg Carb        | 48-1787 Flanders                   | 48-2300 Vincent                   |
| 48-1187 Knucklehead            | 48-1355 World's Fair        | 48-1492 Dover Drag            | 48-1788 Indian Time Line           | 48-2301 Visco Motor Oil           |
| 48-1208 Sifton                 | 48-1357 XLH 1000            | 48-1493 Montgomery Drag       | 48-1819 Motorcyclepedia            | 48-2302 Police Eagle              |
| 48-1324 Buco                   | 48-1358 Anderson Supply     | 48-1494 Hallcrafts            | 48-1889 V-Twin Motor Service       | 48-2303 Penton                    |
| 48-1325 Bates                  | 48-1359 Stewart Warner      | 48-1515 Bobber                | 48-1890 International Car Show     | 48-2304 Norton                    |
| 48-1326 Beck                   | 48-1360 FLH 1200            | 48-1523 Rowe                  | 48-1891 Sifton Cam                 | 48-2305 Well Made In Taiwan       |
| 48-1327 Sifton                 | 48-1361 V-Twin Square       | 48-1531 Wall of Death         | 48-1961 Doering Spark Plug         | 48-2306 Wico                      |
| 48-1328 R Racing               | 48-1362 Newburgh Lumination | 48-1533 Oil Fill              | 48-1962 Orange County New York     | 48-2307 Washington's Headquarters |
| 48-1329 H Racing               | 48-1363 Stewart Warner      | 48-1603 Burkhardt Magneto     | 48-1968 Tedd Cycle                 | 48-2308 Delivery Stamp            |
| 48-1330 BSA                    | 48-1432 Cycle Shack         | 48-1604 SAE 60 Weight Oil     | 48-1972 Drain Oil                  | 48-2309 1000 XLCH                 |
| 48-1332 Split Dorf Plug        | 48-1472 Motorcyclepedia QR  | 48-1605 Johnson Motors        | 48-1973 Made in America            | 48-2310 Alphabet Exhaust          |
| 48-1333 Replicat V-Twin Shield | 48-1474 Thor                | 48-1634 Motorcyclepedia Round | 48-1974 FLH                        | 48-2311 1913 Motorcycle Stamp     |
| 48-1334 True to Original       | 48-1475 Motorcycle Museum   | 48-1635 Iver Johnson Round    | 48-1975 KHK                        | 48-2313 Motor Patrol              |
| 48-1335 V-Twin Product Sign    | 48-1476 Helling's Hollywood | 48-1637 45 VW Army            | 48-1977 Motorcyclepedia Spark Plug | 48-2314 Pit's Wall of Death       |
| 48-1336 V-Twin Motor Shop      | 48-1477 Delco Remy          | 48-1642 Beck 18mm Spark Plug  | 48-2123 Whizzer                    | 48-2318 Avalon                    |
| 48-1337 Corbin-Gentry          | 48-1478 Guide Cycle Ray     | 48-1649 Lockhart              | 48-2176 Hunt Magneto Shape         | 48-2319 No One Has...             |
| 48-1338 Wyatt Gatling          | 48-1479 Hastings Rings      | 48-1650 Tracy Products        | 48-2177 Newburgh Kleig             | 48-2320 New Parts Slogan          |
| 48-1339 Pope                   | 48-1480 Stewart Warner      | 48-1672 Motorcyclepedia Wing  | 48-2288 Akront Rim                 |                                   |





# Pewter



Pewter Motors are mounted on a wooden base.

VT No.	Type	VT No.	Type
48-1765	Flathead	48-0940	5 Piece Set
48-1766	Panhead	48-1372	Metal Box
48-1767	Knucklehead	48-1628	6 Piece Set
48-1768	Shovelhead	48-1771	Knucklehead
48-1770	Evolution	48-1798	TC-88 1999 Replica
48-1901	De Dion Bouton		



1/6" Motor Models.

VT No.	Type	VT No.	Type
48-1365	74" Indian Chief Model	48-1675	TC-88 1999 Replica
48-1366	61" Powerplus Model		

883 XL Model.  
Ironhead motor model  
features 1:10 scale  
with authentic 1957  
Sportster 900cc details!  
VT No. 48-0746

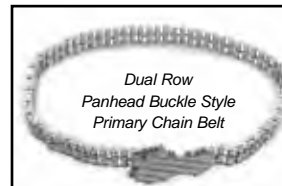


Linkert M Carburetor is a detailed 3/8" scale model! Fully pewter casted and mounted on a wooden base. VT No. 48-1467



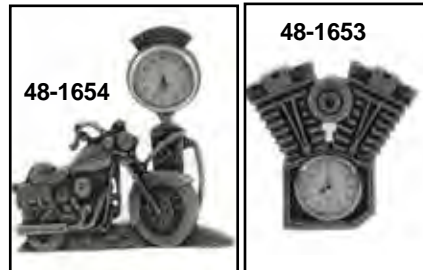
Lapel Pins with silver patina.

VT No.	Style
48-1501	Panhead
48-1502	Knucklehead
48-1503	Flathead
48-1511	Shovelhead
48-1513	Evolution
48-1518	Skull Set
48-1627	Evolution Gift Set
48-1370	Set



Dual Row Panhead Buckle Style Primary Chain.

VT No.	Size
48-0594	36"
48-0595	38"
48-0596	40"
48-0597	42"



Pewter Clocks with silver patina. Battery included.

VT No.	Item
48-1654	Motorcycle
48-1653	V-Twin Motor



Key Chains.

VT No.	Type
48-0233	Wrench
48-0234	Shock Absorber
48-0235	Piston
48-0236	Spark Plug
48-0237	Hand Cuff
48-0238	Crankshaft
48-0240	Lever Blade
48-0241	Wheel
48-0243	Bearing

VT No.	Type
48-0244	Chain
48-1657	Motor
48-1661	Shovelhead
48-1662	Panhead
48-1663	Knucklehead
48-1664	45
48-1665	Evolution
48-1247	Knuck Motor
48-1469	Evo Motor
48-1468	1999 88" Engine



Motorcycle Key Holder has a bronze finish. Mounting hardware included.

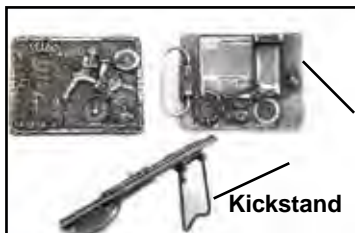
VT No. 48-0947





**Note:** Fit standard size men's 1½" belt.

# Belt Buckles



**Note:** Some belt buckles include kickstand which makes for easy displaying.

**Belt Buckles** fit standard size men's 1½" belt.

VT No.	Item
48-0297	Laconia
48-0448	British Motorcycle
48-0471	Panhead Cam Cover
48-0823	Electra Glide
48-0839	1999 88" Engine
48-0824	Motorcyclepedia, Brass
48-0825	Duo-Glide, Oval
48-0879	Knucklehead 61" 1936-47
48-0901	Skeleton Hand
48-0929	Tedd Cycle
48-0934	Chopper
48-0937	Live to Ride 75th Anniversary
48-0948	Flatside Shovelhead Cam Cover
48-0949	Knucklehead 1939 Cam Cover
48-0959	Curtiss
48-1112	Oval First V-Twin
48-1113	1936 Knucklehead Bronze Accent

VT No.	Item
48-1115	V-Twin Round Bronze
48-1193	Hillclimber
48-1351	Ironhead 1972-85
48-1352	Shovelhead Round, Brass
48-1371	50th Daytona
48-1473	Ironhead XLH Electric Start Style
48-1507	V-Twin Round
48-1508	Teardrop
48-1509	Round Schebler
48-1510	1948 Panhead
48-1512	Wyatt Gatling Sportster Gas Tank
48-1514	Shovelhead
48-1545	XL Cam Cover
48-1632	Motorcycle Postage Stamp
48-1633	Beck Spark Plug
48-1645	Linkert Carburetor
48-1655	45" Cam Cover
48-1660	Liberty 100 Year Anniversary

VT No.	Item
48-1674	Liberty "Stand Up for America"
48-1769	Loud Pipes Save Lives
48-1773	JD Motor
48-1775	Motorcycling "Greatest Sport"
48-1784	Skull
48-1892	Motorcyclepedia
48-1928	Indian 101
48-1970	Nose Cone Cam Cover
48-7779	Skull with wings
48-7780	Skull with wings
48-7783	1936 Knucklehead
48-7784	Live to Ride, 75th 3" diameter
48-7787	XLCH 1957 Sportster



VT No.	Finish
48-1820	Brass
48-1821	Chrome
48-1822	Polished Pewter
48-1823	Black Pewter



VT No.	Style
48-0233	Wrench
48-0235	Piston
48-0236	Spark Plug
48-0244	Chain



# Gift Sets

48-1521



48-1522



48-1524



48-1526



48-1470



48-1527



48-1528



## Belt Buckle Series.

VT No.	Item
48-1521	Shovelhead Series (5)
48-1522	Ironhead Series
48-1524	Motorcyclepedia Series
48-1525	Shovelhead Series
48-1526	Beck/Linkert Series
48-1470	Sportster
48-1527	Chopper Series
48-1528	Evo Series



Oilzum Novelty Oil Can Coin Bank with colorful graphic body, 6 pack. Top and bottom are non-removable.

VT No. 48-0534

48-1637



48-0837



48-8001



48-8002



48-8003



48-8004



48-8005



48-8006



48-8008



48-8009



48-8010



48-8003



48-0549



48-8011



48-0543

## Cloth Patch Series.

**48-8001** Series 1, Joe Hunt Magneto, Vintage Style Oilzum Oil, AEE Chopper, V-Twin MFG Customizer, and an "I Bought American" patch.  
**48-8002** Series 2, Beck, Sifton Motorcycle Products, Sifton Handshake, V-Twin Motorshop, and a FLH patch, V Hap Jones 50 Years, Tedd Cycle  
**48-8003** Series 3, V Hap Jones 50 Years, Tedd Cycle, SAE 60 Weight Oil, and a Drain Oil  
**48-8004** Series 4, Linkert Air Dam, New Parts for an Old Standard, Replica V-Twin Shield, Guide Cycle Ray Logo, and a Lockhart  
**48-8005** Series 5, Flanders, Akront Rim, Joe Hunt Magneto Vintage, and Speed Industry, Hellings and Stellings  
**48-8006** Series 6, XL 1000, Joe Hunt Magneto Vintage, Akront Rim, Flanders  
**48-8007** Series 7, KHK, Made in America,  
**48-8008** Series 8, Wall of Death, World's Fair 1940, Motorcyclepedia Museum, Made in America, and a Hellings and Stellings  
**48-8009** Series 9, V-Twin Motorshop, Akront Rim, KHK, Joe Hunt Vertical Magneto, and a Lockhart patch.  
**48-8010** Series 10, V-Twin Product, V-Twin Motor Service, Replica V-Twin Shield, V-Twin MFG Customizer, and a Linkert Air Dam patch  
**48-8011** Series 11, Yale, Pope, Motorcyclepedia Museum, Made in America, and a Hellings and Stellings  
**48-0549** V-Twin Brands; Sifton Cam, Replica V-Twin Shield, V-Twin Product Sign, V-Twin Motorshop, V-Twin MFG Customizer, Hellings Company, New Parts for an Old Standard, Tedd Cycle, and Burkhart Magneto  
**48-0543** Vintage Brands; Oilzum, Alphabet Exhaust, Anderson Supply, Hellings Company, Hudson Valley AMCA, Sifton Handshake, AEE Chopper, Linkert Air Dam, Sifton Motorcycle Products, and Tedd Cycle  
**48-1637** Army Patch Set  
**48-1623** Tedd Cycle Local Patch Set  
**48-0837** Hot Rod Patch Set





## Gift Sets



48-1373



48-1374



48-1375



48-1530



48-1376



48-0371



48-1117



48-0781



48-0828



48-1525

### Gift Sets

VT No.	Model
48-1373	Panhead
48-1374	Shovelhead
48-1375	Knucklehead,
48-1530	Knucklehead,
48-1376	Flathead
48-0371	Oilzum
48-1117	JD Racer
48-0741	Sportster Set (6)

48-0828	British Motorcycle Set
48-1627	Evo
48-1370	Motor Lapel Pin Set (5)
48-0827	Motorcyclopedia
48-0224	Twin Cam Set
48-0781	Sportster
48-1525	Shovelhead



48-0926

48-1383



### V-Twin™ Metal Containers.

VT No.	Size
48-0926	Round Can 6.61" x 3.94"
48-1383	112mm x 112mm x 125mm
48-1372	89mm x 89mm x 98mm
48-1369	69mm x 69mm x 65mm
48-1690	Waste Basket, 5 gallon



**Brando Style Hats.** Pleated top has button on top for detail. Yellow braided rope is fastened by button on each side. Visor is white trimmed with black.

VT No.	Size
48-0871	Child
48-0872	Small
48-0873	Medium
48-0874	Large



**Accel Floor Mat**  
VT No. 48-0201



48-0741



48-1627



48-1370



48-0224



Endorsed by  
Pit and Esther  
Lengner [www.steilwand.de](http://www.steilwand.de)  
For more information  
about the original.

**Wall of Death model by Faller.** Unassembled. This is an original reproduction of the breathtaking Pit's steep face show. It functions like the original with three motorcycles driving around the steep face, complete with drive motor and automatic electronic control unit (16v AC/DC). With truck and trailer. H-O scale.

VT No. 48-0867



**Matchbox Collector Set** includes five toys and one patch.  
VT No. 48-7627





# V-Twin™ Reference



**V-Twin™ Catalog Racks** are black with a V-Twin logo. Feature steel construction to firmly sit on countertop.

VT No.	Item
48-1702	18" Rack
48-1712	Turntable for Rack



**V-Twin™ Dealer Promo Wall Banner Pack** includes banner and (2) V-Twin Catalogs. The banner is in full color. Measures 3' x 6'. Heavy gauge vinyl.

VT No. 48-0068



**Wyatt Gatling** 18" x 24" features metal product logo.  
VT No. 48-0103



48-0945

**Tedd Cycle Metal Sign** with embossed letters. 18" wide.  
VT No. 48-0945



VT No. 48-0004



VT No. 48-0001

**V-Twin™ Dealer Promo Items.** V-Twin™ Hours Open Sign in double faced for use on windows or opaque surfaces. V-Twin™ Authorized Dealer Decal is in full color on mylar.

VT No.	Decal
48-0004	Hours
48-0001	Dealer



**V-Twin™ Shop Bag.** Full color V-Twin™ Logo, 8" x 16" deep. Sold in 50 pack.

VT No.	Type
48-0040	White with logo
48-0054	Clear without logo



**V-Twin Mouse Pad** made of natural rubber. Measures 8 3/4" x 7" with 1/8" thickness. Purple and orange cloth.  
VT No. 48-1505



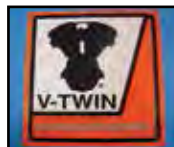
**V-Twin Product Sign** is constructed of 30 gauge steel measuring 18" x 18"  
VT No. 48-1114



**Tedd Cycle, Inc. Company Profile Brochure** includes credit card application and order forms.  
VT No. 48-0159



**Bottler Opener**  
VT No. Type  
48-0545 Tedd Cycle  
48-1965 Motorcyclepedia



**V-Twin Dealer Decal** features full color on adhesive vinyl for indoor or outdoor display, measuring 14" x 14".  
VT No. 48-0164



**Wire Tags** in a pack of 25, 1 7/8" x 3 3/4" with wire attached.  
VT No. 48-0118



**V-Twin Patches and Brand Set** includes ten different patches. VT No. 48-0549



**V-Twin Catalogs** are available for dealers to supply to customers.

VT No.	Item
48-0035	Product Reference Guide (1328 pages)
48-1331	Knucklehead
48-1364	Panhead



48-1263



48-1264



48-1265

**V-Twin™ Commemorative** is 1/25" scale measuring 7" long, lockable coin bank and authentic Tedd Cycle, Inc., V-Twin™ logos and colors.

VT No.	Type
48-1263	Chevy Truck, 13th Edition
48-1264	Dodge Pickup, 14th Edition
48-1265	Coupe, 15th Edition



**Cloth Patches** available with V-Twin Mfg. and our brands. Sold as a pair.



**V-Twin™ Counter mat** features our colorful logo. Orange, purple and black on carpet.  
VT No. 48-0012

**V-Twin™ Metal Containers.**

VT No.	Size
48-0926	Round Can 6.61" x 3.94"
48-1383	112mm x 112mm x 125mm
48-1372	89mm x 89mm x 98mm
48-1369	69mm x 69mm x 65mm
48-1690	Waste Basket



48-0498  
80" UL

48-0470  
Knucklehead

48-0030  
1340 cc

48-0033  
Dual Cam

48-0025  
Panhead

48-0044  
Shovelhead

48-0048  
Shovelhead

48-0372  
XLCH 1971

48-1824  
45"

**Motor Plaques** measure 18" x 24" and are made of metal.

**Motor Plaque Set** includes 9 plaques. VT No. 48-1811