

# Tool Index '08

## A

ADVERTISING.....1203  
 AIR BLASTER.....1222  
 ALLEN SCREW KIT.....1269  
 ALTERNATOR.....1220  
     Ring Replacement.....1208  
 AXLE.....1240

## B

BATTERY.....1248  
 BEARING.....1224,1246,1252  
 BELT DRIVE.....1252  
 BOLT LIST.....1269  
 BOOKS .....1214-1215  
 BRAKE  
     Caliper Piston.....1250  
     Fluid.....1217  
 BREATHER  
     Valve Service.....1210  
 BUNGEE CORD.....1205  
 BUSHING LIST.....1246,1255

## C

CABLE OILER.....1216,1252  
 CABLE RACK.....1221  
 CAM.....1226-1228,1246  
     Bushing Replace.....1206  
 CAPS(Chrome).....1268  
 CARBURETOR.....1231  
 CASE BORING.....1206  
 CATALOG & RACK.....1203  
 CHAIN & LUBE.....1216,1247  
 CHARGER.....1243  
 CHOPPER (MINI).....1208  
 CHROME CAPS.....1268  
 CLEANER/ POLISH.....1216  
 CLUTCH .....1247-1248  
     Spring Tester.....1262  
 COLLECTIBLES  
     Cast Iron Toy.....1202  
     Scale Models.....1202  
     Sky King Trike.....1202  
 COTTER PIN LIST.....1270  
 COUNTERSHAFT.....1244  
 CRANKCASE.....1221,1236  
 CRANKSHAFT...1223-1224,1237  
     Balance Service.....1209  
 CYLINDER.....1235-1237  
     Boring Service.....1206

## D

DEALER PROMOTION...1203  
     Banner.....1203  
     Bank.....1226  
     CD Catalogue.....1203  
     Cable Rack.....1221  
     Catalogue.....1203  
     Catalogue Rack.....1203  
     Catazine.....1202  
     Counterpart.....1203  
     Dealer Decals.....1203  
     Labels.....1203  
     Mat.....1203  
     Poster.....1202  
     Shop Bag.....1203  
     Sign/Postcard.....1203  
     V-Twin Promo.....1203  
     V-Twin OEM List.....1203  
     Wire Tag.....1202  
 DEUTCH.....1242  
 DIAGNOSTIC.....1229,1243  
 DOWEL PIN LIST.....1263  
 DRIVERS.....1254  
 DYNA.....1232

## E

ELECTRICAL.....1242-1243  
 EXHAUST  
     Port Replacement.....1210

## F

FLYWHEEL.....1221,1225  
     Remanufacture.....1208  
 FORK.....1246,1249  
     Leg Bushing.....1210  
     Oil.....1217  
     FXST-FLT.....1232  
 FUEL LINE.....1231

## G

GAS TANK  
     Line.....1231  
     Sealant.....1218  
     Shut Off.....1230  
 GASKET LIST.....1256-1263  
     Removal.....1254  
     Sealant.....1218  
 GEAR OIL.....1217  
 GENERATOR  
     Gear Puller.....1270  
 GOGGLES .....1204  
 GREASE .....1216

## H

HEADS.....1235  
     Remanufacture.....1207  
     Resurfacing.....1207  
 HELICOIL.....1253  
     Installation Service.....1207  
 HELMET NET.....1205  
 HOSE .....1231

## I

IGNITION  
     Timing.....1229,1243  
 IMPACT DRIVER.....1254  
 INTAKE WRENCH.....1240

## K

KEYS.....1266  
 KROMMETTS.....1271

## L

LAPPING.....1225,1236  
 LEAN RITE.....1219  
 LIFTER.....1230  
 LIFTS.....1219,1222  
 LOCK TAB LIST.....1267  
 LOCKS.....1205  
 LONG BLOCK SERVICE.1208  
 LUBRICATION.....1252  
     Bearing Packer.....1252  
     Brake.....1217  
     Cable/Oiler.....1216,1252  
     Chain.....1216  
     Gear.....1217  
     Grease Fitting.....1252  
     Grease Gun.....1252  
     Motor/Fork/Trans...1217,1253  
     Tire Seal.....1216  
     Wrench (Oil Filter).....1217

## M

MAGNETIC TRAY.....1254  
 MAINSHAFT.....1244,1246  
 MANUALS.....1211-1215  
 MASTER CYLINDER.....1250

## MOTOR SHOP SERVICE

Alternator Ring Replacement..1208  
 Breather Valve Machining...1210  
 Cam Bushing XL.....1207  
 Cam Cover Bushing BT.....1207  
 Case Boring.....1206  
 Crankshaft Balance.....1209  
 Cylinder Boring.....126  
 Exhaust Port Replacement...1210  
 Flywheel Balancing.....1209  
 Flywheel Remanufacture...1208  
 Fork Leg Bushing Installation.1210  
 4-Speed Rebuild Service...1210  
 Head Remanufacturing...1207  
 Head Resurfacing.....1207  
 Long Block Remanufacture.1208  
 Short Block Remanufacture...1208  
 Spark Plug Helicoil Installation.1207  
 Transmission Remanufacture...1210  
 Valve Seat Service.....1207  
 Wheel Truing/Building....1210

## MOTOR STAND.....1220

## MOTORCYCLE COVER...1204

## N

NECK BEARING.....1249  
 NUT LIST.....1271-1272

## O

O RING LIST.....1264  
 OIL.....1217  
 OIL DRAIN RESERVE.....1236  
 OIL FILTER WRENCH.....1252  
 OIL LINE.....1231  
 OIL PRESSURE.....1240,1242  
 OIL PUMP.....1242

## P

PAINT.....1216  
 PARTS MANUAL...1211-1215  
 PINION.....1223,1228  
 PISTON.....1223,1237  
 PISTON RING.....1237  
 PLIERS.....1247  
 PLUGS .....1226,1253  
 POLISH/CLEANER.....1216  
 POSTER.....1202  
 PRIMARY.....1247  
     Oil.....1217  
 PROMO.....1203  
 PULLER.....1246  
 PUNCH.....1254  
 PUSHROD.....1230

## R

RACE.....124  
 RATCHET PLATE RIVET.1247  
 RIVET.....1254  
 ROCKER.....1235  
 ROD.....1223  
 ROLL PIN.....1263  
 ROTOR.....1250

## S

SCREW LIST.....1272  
 SEAL LIST.....1265-1266  
     Driver Kit.....1246  
 SEALANT.....1218  
 SECURITY.....1205  
 SERVICE MANUAL..1213-1215  
 SHIFT FORK GAUGE.....1248  
 SHIFT SHAFT.....1245  
 SHIM LIST.....1268  
 SHOCK.....1250

## SHOP SERVICES...1206-1210

## SPACER LIST.....1270

## SPARK PLUG

Helicoil Replacement....1253  
 Plug/Tap.....1226,1253  
 Test/Firing/Indexer.....1253  
 Repair Kit.....1253  
 Thread Chaser.....1253  
 Wrench.....1254

## SPOTLAMP.....1254

## SPROCKET

Comp Wrench.....1224  
 Nut.....1244

## SPROCKET SHAFT.....1224

## STARTER BEARING.....1245

## STUD LIST.....1254,1267

## SUSPENSION.....1250

## SWING ARM.....1250

## T

## TAP & DIES.....1253

## TAPPET.....1230

## TC-88.....1233-1234

## THREADING.....1253

## TIE DOWN.....1219

## TIMING.....1226

## TIRE

Changer.....1251  
 Sealer.....1218

## TOOL ROLL.....1205

## TOOL KIT.....1211,1254

## TRANSMISSION.....1245

4 Speed Rebuild.....1210  
 Oil.....1217  
 Stand.....1220

## TRUING STAND.....1251

## V

## V-ROD.....1233

## V-TWIN PROMO.....1203

## VALVE.....1230,1238

## VALVE GUIDE.....1239

## VISE JAW PADS.....1254

## VOLT METER.....1242

## W

## WASHER LIST.....1270,1272

## WHEEL.....1251

Bearing Greaser.....1252  
 Building & Truing.....1210  
 Chock.....1221  
 Race/Driver.....1246  
 Truing.....1210,1251  
 Truing Stand.....1251

## WIRING.....1252,1254

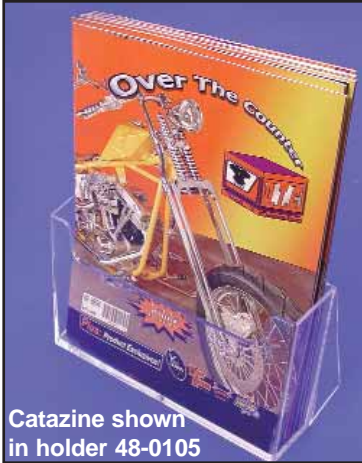
Crimper .....1254  
 Plier.....1242

## WRENCHES.....1240

## WRIST PIN .....1223



# Catazine



Catazine shown in holder 48-0105

V-Twin's "Over The Counter" Catazine 48 pages. Features project building, tech tips and products with retail pricing for our dealers. Pack of 10. Free to our dealers. Published quarterly.

- VT No. Item**  
**48-0865** Catazine (10)  
**48-0870** Catazine (ea)  
**48-0105** Holder

**WYATT CULLING'S OVER THE COUNTER Catazine**

"Over The Counter" Catazine features full color photos of our products with retail prices for our dealers. They are available for free to our dealers in packs of 10.

Cat's zine: is the best of a catalog and a magazine with content on:

- Project Motorcycles - Technical Articles - Historical Items of Interest - New Products
- Editorials - Product Reference Guides and Industry Profiles.

Wyatt Culling's "OVER THE COUNTER" is the first of its kind for the customer who increasingly looks to the motorcycle aftermarket for new style and ready availability.

**VT No.**  
**48-0865** Catazine, 10 Pack  
**48-0105** Catazine Rack



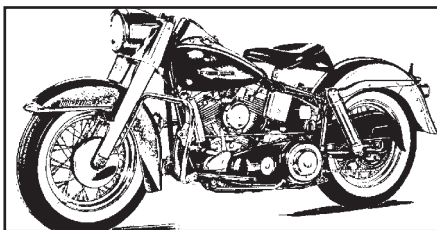
**Sky King Replica Tricycle** features aero-dynamic 1936 styling. All steel construction with 16" front wheel, functional decorative headlamp, solid rubber tires and coil spring seat. Unit weighs 26 pounds. For display only.  
**VT No. 48-0467**



**H-D Flame Rubber Mat** measures 14" x 17".  
**VT No. 48-0071**



**Wire Tags** in a pack of 50, 1 7/8" x 3 3/4" with wire attached.  
**VT No. 48-0118**



**Gigantic Poster Mural** are 42" x 96" black & white of the models listed. Posters shipped folded flat in a box.

- | VT No.  | Model          |
|---------|----------------|
| 48-0087 | Servi-Car      |
| 48-0091 | Indian Chief   |
| 48-0099 | 1947 Knuckle   |
| 48-0097 | 1958 Duo Glide |
| 48-0092 | Pan Chopper    |
| 48-0089 | 1970 FLH       |

## Scale Models



48-1262



48-1261



48-1262

**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**  
**48-1261** Dodge (11th Edition)  
**48-1262** Panel (12th Edition)



48-0160



48-0700

**Cast Iron Toys** are collectable, from the original models of the 1920's, last for generation.

- VT No. Item**  
**48-0700** Large VL, Side Car, 8 1/2" long  
**48-0160** Police Solo





**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**



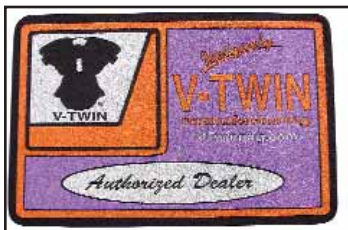
**VT No. 48-0001**



**VT No. 48-0004**

**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.

<b>VT No.</b>	<b>Decal</b>
<b>48-0004</b>	Hours
<b>48-0001</b>	Dealer



**V-Twin™ Counter mat** features our colorful logo. Orange, purple and black on carpet.

**VT No. 48-0012**



**Promo Labels** are great for tool boxes and workshops.

<b>VT No.</b>	<b>Brand</b>
<b>48-0184</b>	MCM Chrome
<b>48-0185</b>	V-Twin Mfg.
<b>48-0186</b>	V-Twin Replica
<b>48-0187</b>	V-Twin Customizer
<b>48-0188</b>	Sifton Cams
<b>48-0017</b>	Motor Shop Ready
<b>48-0156</b>	Wyatt Gatling



**VT No. 48-0002**

**48-0011**

**V-Twin Catalog** is available for dealers to supply to customers.

<b>VT No.</b>	<b>Item</b>
<b>48-0002</b>	Catalog
<b>48-0036</b>	Catalog with Retail Price Guide
<b>48-0008</b>	Retail Price Guide
<b>48-0011</b>	OEM Cross Reference
<b>48-0003</b>	Update Flyers
<b>48-5010</b>	Catalog CD
<b>48-2102</b>	Price Incentive Flyer



**V-Twin™ Mfg. Metal Dealer Promo Sign Pack** includes 3 V-Twin Catalogs and metal sign. The sign measures 18" x 24", in 3 colors on formed steel.

**VT No. 48-0086**



**V-Twin™ Shop Bag.** Full color V-Twin™ Logo, 8" x 16" deep. Sold in 50 pack.

<b>VT No.</b>	<b>Type</b>
<b>48-0040</b>	White
<b>48-0054</b>	Clear



**Wyatt Gatling** features metal product logo measuring 18" x 24".

**VT No. 48-0103**



**Tedd Cycle, Inc. Company Profile Brochure** includes credit card application and order forms.

**VT No. 48-0159**



**V-Twin Product Sign** is constructed of 30 gauge steel measuring 18" x 18"

**VT No. 48-1114**

# V-Twin™ Reference



**V-Twin™ Mfg. Post Mount Sign Kit** is a double sided 18 x 24 unit which includes angle bracket.

<b>VT No.</b>	<b>Item</b>
<b>48-0090</b>	Sign with bracket
<b>48-0093</b>	Bracket only



**V-Twin™ Catalog Racks** are black with a V-Twin logo. Feature steel construction to firmly sit on countertop. The 24" model holds twelve 1" and three 2" catalogs. The 3-ring sections in 1" or 2" size and swivel base are available separately.

<b>VT No.</b>	<b>Item</b>
<b>48-1702</b>	16" Rack
<b>48-1700*</b>	24" Rack
<b>48-1712</b>	Turntable for Rack
<b>48-1703</b>	1" Ring Section
<b>48-1704</b>	2" Ring Section
<b>48-0468</b>	3" Ring Section

\*Note: Order ring sections separately.



**V-Twin Dealer Decal** features full color on adhesive vinyl for indoor or outdoor display, measuring 14" x 14".

**VT No. 48-0164**



**Promo-Counter Postcards** available to dealers for their customers. Retail Prices shown

**VT No. 48-0115**



**CD ROM** of 2007 V-Twin Mfg Catalog for Computers. For Windows or Macs.

**VT No. 48-5010**



**Guardian Covers by Dowco** feature a Moisture-Guard venting system which eliminates harmful condensation. A flannel liner is provided in the 125 and 100 series to protect the windshield area from unsightly scratches. Standard features include scratch resistant aluminized panel reinforced grommets for use with a cable or bar lock, elastic cord sewn into the entire bottom hem to provide a secure fit.

**VT No. Dow # Fits**

- 48-2010** G-125 Full Dresser with Fairing, Windshield, Tour Pack, Backrest, etc.
- 48-2012** G-100 All Twins with Sissy Bars. Will not fit Full Dresser models.
- 48-2011** G-50 All models without Sissy Bars
- 48-2013** G-150 XX-Large



**Guardian Ultra Lite Covers by Dowco** are water resistant nylon with vent-aires to protect your bike from moisture. Reinforced grommets for cable or bar locks and elastic bottom rim for snug fit in burgundy with light gray bottom and include storage bag.

**VT No. Part# Description**

- 48-2014** Leg-02 Touring/Full Dress (XL)
- 48-2015** Leg-01 Full Dress (L)

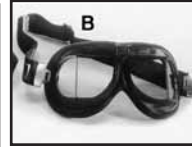
**Guardian Custom Bike Covers** by Dowco. Available for custom bikes with wheel bases up to 72" and 109". These covers feature soft cotton fabric interior lining to protect painted and chrome surfaces, shock cord hem along the bottom for easy installation, reinforced grommets for use with cable lock to help prevent theft and breathable material that lets damaging moisture escape.

**VT No. Max Wheel Base**

- 48-1228** 72"
- 48-1227** 109"



**The Original Stadium MK4.** Made in England.  
**VT No. 48-0223**



**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
<b>48-0119</b>	A	Over glasses	Leather	Chrome	Split
<b>48-0222</b>	B	Red Baron	Vinyl	Black	Split
<b>48-0622</b>	C	Aviator	Leather	Chrome	Smooth



Motor Power	110cc Forced Air Cooled
Suspension System	Front Shocks
Transmission	4 Speed
Fuel/Oil	Unleaded Gas
Body Material	Steel & Plastic
Brake	Front and Rear Disc
Wheel	15"
Fuel Tank	.26 Gallon
Ground Clearance	5"
Ignition	Magneto
Starter System	Electric Start
Speed	70 MPH
Range	Street Terrain Tires w/13" rim
Net Weight	156.2 lbs
Gross Weight	200.2 lbs
Max. Rider Weight	330 lbs
Overall Dimensions	67" L x 19" W x 32 H

**Spider Mini-Chopper** designed for non-highway use for ages 12 and older, for display only.

VT No.	Color
<b>48-1550</b>	Red
<b>48-1552</b>	Black
<b>48-1553</b>	Silver





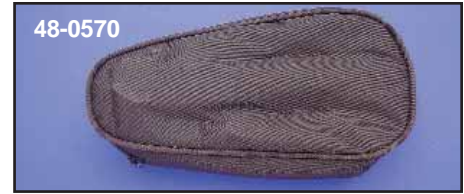
# Tool Rolls



**Tool Pouch** with duo strap has extra thick leather, measures 8 3/4 x 2 3/4 x 5 1/2. Black. **VT No. 48-3136**



**Heavy Leather Tool Bag** with duo strap measures 10" x 4 1/2" x 3", 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**



48-0570



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



**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**



48-0572

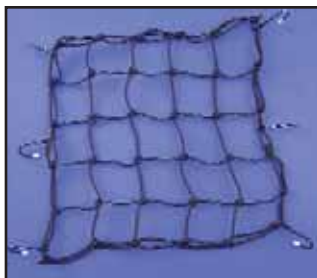
### Tool Kits and Tool Rolls Only.

VT No.	Type	Type
48-0570	Nylon	Pouch
48-0571	Nylon	Roll
48-0572	Canvas	Roll



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

# Bungee Cords



**Helmet Net** secures the helmet to the seat with elastic tension. **VT No. 48-0232**



48-0228



37-8982



48-0227

**Bungee Cords** are black elastic sold in 10 packs.  
**VT No. Item**  
48-0228 12" Single  
48-0227 2-12", 4 hook  
37-8982 Bungee Nut 3/8 x 24 mounts to stock studs  
37-8983 Bungee Nut 3/8 x 16 mounts to stock studs

# Security



**Disc Brake Rotor Lock** acts as dead bolt through rotor. **VT No. 48-0703**



**Chrome Padlock** is factory style with 2 keys.  
**VT No. Item**  
48-0121 Lock with 2 Keys  
48-1721 Leather Lock Holder



**Lockster™ Stainless Steel Lock Holder** includes 3/8 allen bolt to mount on frame tubes. Patented by Pingel®. **VT No. 48-0158**



**Chrome Helmet Lock** clamps to 7/8" through 1 1/4" diameter tubing, secures helmet. **VT No. 48-1732**



# Services

## Motor Shop Cylinder Area



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

## 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





**Spark Plug Hole Service.**  
 Motor Shop will Heli-Coil 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**

# Head Services



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



Sunnens in action!



**Head Resurfacing Service** is performed on a Winnona 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 Cam Bushing Service** will replace bushings in BT cam cover for 1936-up models.  
**VT No. 60-0132**



**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**



Service Performed on Sunnen VGS20



**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 Evo 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

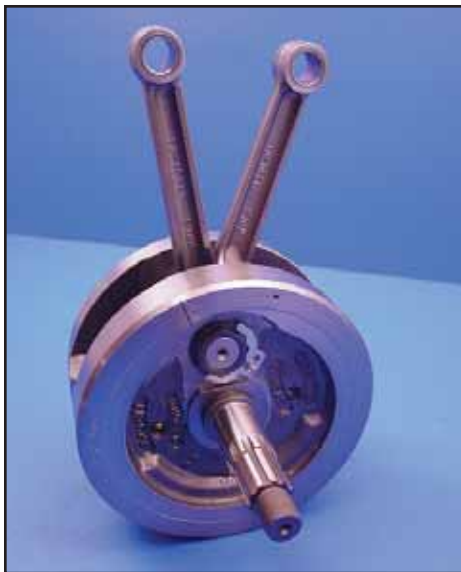


- Shop Services Procedure:**
- Call for Return Goods Authorization (RGA)#
  - Obtain RGA # and return to  
**Motor Shop Service**  
9 Scobie Drive  
Newburgh, New York 12550
  - Finished job will be returned by UPS

# Services



**Flywheel  
ReManufacturing**



**Flywheel ReManufacturing Service.** We will install new shafts, crank pin, rollers, cages and wrist pin bushings for years listed.

VT No.	Item
10-0115	1929-73 45"
10-1110	1930-36 VL
10-0114	1936-48 74" & 80" SV
10-0122	1970-72 Shovelhead
10-0123	1973-86 Shovelhead
10-1104	1987-89 Evo, 1340
10-1102	1990-99 Evo, 1340
10-0124	1957-76 XL, XLH
10-1100	1977-80 XL
10-1101	1981-86 XL
10-1103	1987-99 XL
10-1111	1936-39 Knuckle 61"
10-0116	1940-47 Knuckle 61"
10-1109	1941-47 Knuckle 74"
10-0117	1948-53 Panhead 74"
10-0118	1954-55 Panhead 74"
10-0119	1956-57 Panhead 74"
10-0120	1958-64 Panhead 74"
10-0121	1965-69 Pan & E Shovel

**FLYWHEEL REMANUFACTURING 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.



**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 flywheels, inspect oil pump and reassemble with new bearings, washers, races and 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	Long Block Remanufacturing	Year
60-0176	60-0178	1936-57
60-0177	60-0179	1958-99



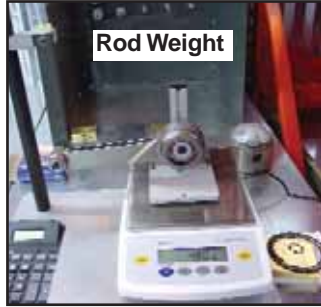
**Motor Shop Alternator Sealing Ring Replacement Service.** Ship in 1970-up left hand case with damaged O-Ring lip and we will machine out and replace with new steel sealing ring.  
**VT No. 60-0164**



# Flywheel Balancing



Rod Weight



Rod Weight



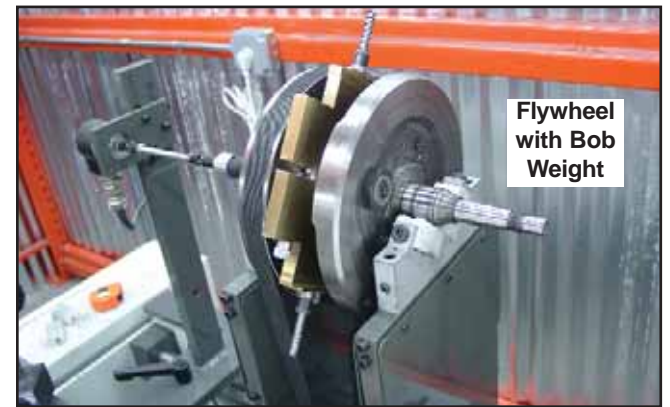
Bob Weight



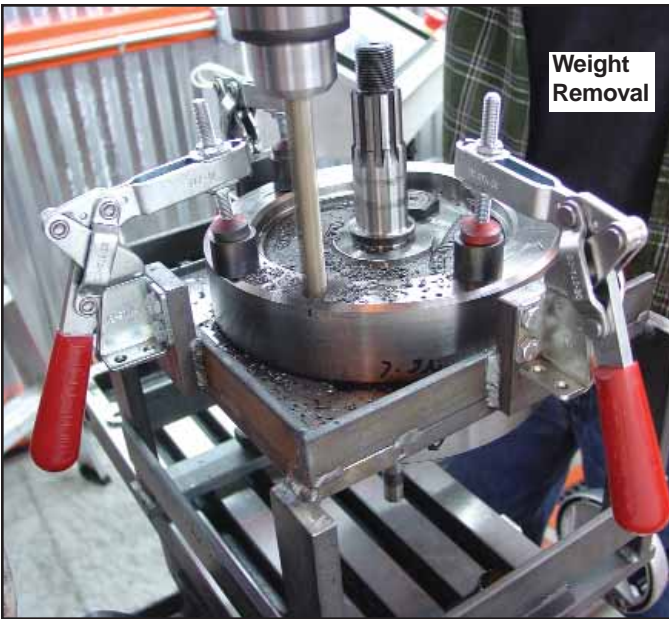
Ring & Pin Weight



Piston Weight



Flywheel with Bob Weight



Weight Removal



Spinning Assembly



Balancing Machine

**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 58-up**

**60-0180 Case Installing 36-57**





**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 Leg Bushing Service.**

We will remove old bushings, install and size new bushings to Standard I.D. for new fork tubes. Service includes new bushings and labor.

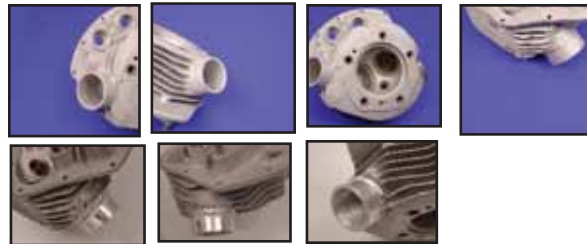
VT No.	Years	Model
60-0150	1949-76	FL, FLH
60-0155	1984-up	FXST-FLT
<b>FX Models</b>		
60-0151	1952-72	FX
60-0152	1984-87	FX
60-0153	1988-up	FX
<b>XL Models</b>		
60-0151	1952-72	XL
60-0152	1984-87	XL
60-0153	1988-up	XL

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



**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 & Labor. Service limited to components in stock. **VT No. 60-0125**



**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



**Motor Shop Ready Big Twin 4-Speed 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
60-0174	1936-76
60-0175	1977-84





# Tool Kits



VT No. 16-1007 fits 1989-up ST models



### Tool Kits and Tool Rolls Only.

VT No.	Type	Type
16-1007	Kit	
48-0570	Nylon	Pouch
48-0571	Nylon	Roll
48-0572	Canvas	Roll



VT No. 16-0840 for 1929-73 45" & Solo



VT No. 16-0843 for 1936-57 61&74 OHV



VT No. 16-0841 for 1930-40 SV-VL-ULH



VT No. 16-0844 for 1958-72 OHV



VT No. 16-0842 for 1941-48 SV-VL-ULH



Universal Rider Tool Kit includes zippered vinyl case.  
VT No. 16-0910

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

### Tool Kits

#### VT No. Fits

- 16-0849 1957-70 XL
- 16-0845 1971-74 XL
- 16-0855 1975-76 XL
- 16-0846 1977-84 XL
- 16-0853 1985-up 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

### Early Tool Kits.

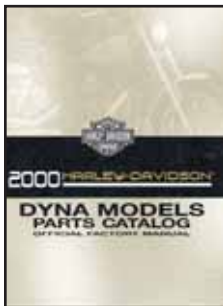
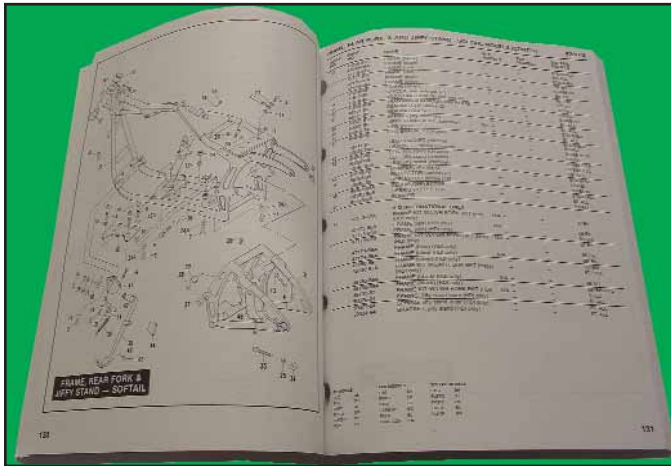
- 16-0843 1936-57 61&74 OHV
- 16-0844 1958-72 OHV
- 16-0840 1929-73 45" & Solo
- 16-0841 1930-40 SV-VL-ULH
- 16-0842 1941-48 SV-VL-ULH



Replica Tool Kit fits TC-88 ST and 1986-up XL models.  
VT No. 16-0746



# Big Twin Parts Books



48-0680



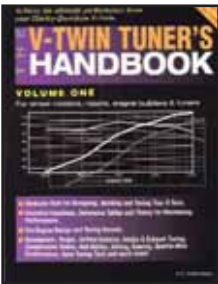
48-0604



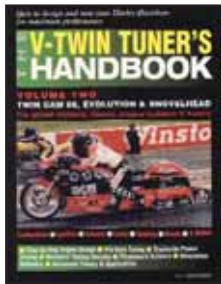
48-0679



48-0800



48-0801



48-0799

**Big Twin High Performance Guide** includes new performance secrets for horsepower gain. 238 pages.

**V-Twin Tuner Handbook I** includes essential equations, reference tables and theory for maximum performance, pro engine design and tuning secrets. 158 pages.

**V-Twin Tuner Handbook II** instructions on how to design and tune for maximum performance, step by step scientific engine design, advance theory and design. 270 pages.

**VT No. Type**

48-0800 Performance Guide

48-0801 Tuner's Handbook I

48-0799 Tuner's Handbook II

**V-Twins™ OEM Cross Reference Guide**

with cross factory number to V-Twin Numbers on over 20,000 items.

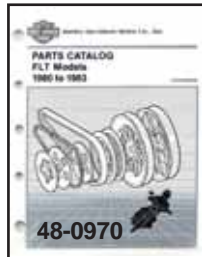
**VT No. 48-0011**



48-0718



48-0330



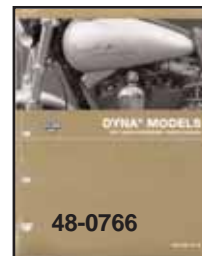
48-0970



48-0709



48-0765



48-0766

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

VT No.	OEM	Years/Model
48-0330	99456-84B	1941-84 FLH
48-0333	99455-83C	1971-84 FX
48-0972	99455-86A	84-86 FXST, 85-86 FX
48-0973	99439-83B	1982-83 FXR
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>
48-0976	99450-90A	1987-90 1340 Big Twin
48-1558	99450-92	1991-92 Big Twin
48-1590	99450-94	1993-94 1340 Big Twin
48-0986	99450-90	1995-96 1340 Big Twin
48-0970	99438-83B	1980-83 FLT
48-0971	99438-86B	1984-86 FLT
48-0950	99456-97	1997 FLT
48-0698	99456-98A	1998 FLT
48-0709	99456-99A	1999 FLT
48-0678	99456-00A	2000 FLT
48-0602	99456-01	2001 FLT
48-0620	99456-02	2002 FLT
48-0718	99456-03	2003 FLT
48-0625	99456-04	2004 FLT
48-0727	99456-05	2005 FLT
48-0735	99456-06	2006 FLT
48-0765	99456-07	2007 FLT
48-0770	99456-08	2008 FLT
48-0951	99439-97	1997 Dyna
48-0811	99439-98A	1998 Dyna
48-0710	99439-99	1999 Dyna
48-0680	99439-00	2000 Dyna
48-0603	99439-01	2001 Dyna
48-0619	99439-02	2002 Dyna
48-0719	99439-03	2003 Dyna
48-0624	99439-04	2004 Dyna
48-0728	99439-05	2005 Dyna
48-0736	99439-06	2006 Dyna
48-0766	99439-07	2007 Dyna
48-0771	99439-08	2008 Dyna
48-0952	99455-97	1997 Softail
48-0997	99455-98A	1998 Softail
48-0711	99455-99	1999 Softail
48-0679	99455-00A	2000 Softail, deuce
48-0604	99455-01A	2001 Softail, deuce
48-0618	99455-02	2002 Softail
48-0720	99455-03	2003 Softail
48-0623	99455-04	2004 Softail
48-0729	99455-05	2005 Softail
48-0737	99455-06	2006 Softail
48-0767	99455-07	2007 Softail
48-0772	99455-08	2008 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

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.





# Big Twin Factory Service Manuals



48-0683



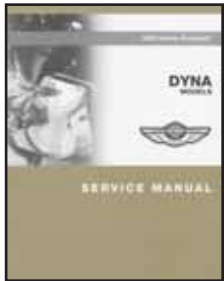
48-0992



48-1561



48-0716



48-0715



48-0629



48-1740



48-1741



48-1749



48-1750

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

VT No.	Year/Model
48-1740	1984-99 FXST-FLST
48-1741	1984-94 FLT-FXR
48-1753	1995-98 FLT-FXR
48-1711	1991-98 Dyna
48-1749	1999-01 Dyna
48-1752	2002-03 Dyna
48-1755	2004-up Dyna
48-1707	1966-84 Shovel
48-1750	1999-2003 FLT
48-1751	2000-03 FXST-FLST
48-1759	2004-03 FXST-FLST
48-1754	2004-2005 FLT

Flat Rate Manual estimates job time for repair and replacement of parts.

VT No. 48-1727



48-0626



48-0627



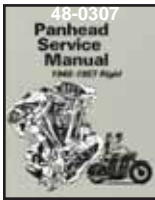
48-0628

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/Model
48-0692	99482-78	1970-E78 FL-FX
48-0696	99482-84	1978 <sup>1</sup> /2-84 FL-FX
48-0663	99483-83	1980-83 FXR-FLT
48-0993	99483-90	1984-90 FXR-FLT
48-1560	99483-92	1991-92 FXR-FLT
48-1587	99483-94A	1993-94 FXR-FLT
48-1745	99483-96	1995-96 FXR-FLT
48-0593	99480-99	1999 FXR <sup>2</sup> /FXR <sup>3</sup>
48-0607	99480-00	2000 FXR <sup>4</sup>
48-0954	99483-97	1997 FLT
48-0697	99483-98	1998 FLT
48-0706	99483-99A	1999 FLT
48-0682	99483-00A	2000 FLT
48-0608	99483-01	2001 FLT
48-0612	99483-02	2002 FLT
48-0714	99483-03	2003 FLT
48-0626	99483-04	2004 FLT
48-0731	99483-05	2005 FLT
48-0752	99483-06	2006 FLT
48-0759	99483-07	2007 FLT
48-0774	99483-08	2008 FLT
48-1577	99481-92	1991-92 Dyna Glide
48-1588	99481-94	1993-94 Dyna Glide
48-1793	99481-96	1995-96 Dyna Glide
48-0955	99481-98	1997-98 Dyna Glide
48-0707	99481-99A	1999 Dyna Glide
48-0684	99481-00	2000 Dyna Glide
48-0609	99481-01	2001 Dyna Glide
48-0613	99481-02	2002 Dyna Glide
48-0715	99481-03	2003 Dyna Glide
48-0627	99481-04	2004 Dyna Glide
48-0732	99481-05	2005 Dyna Glide
48-0753	99481-06	2006 Dyna Glide
48-0775	99481-07	2007 Dyna Glide
48-0760	99481-08	2008 Dyna Glide
48-0992	99482-90	1985-90 FXST-FLST
48-1578	99965-89	1989 Big Twin International
48-1561	99482-92	1991-92 FXST-FLST
48-1589	99482-94	1993-94 FXST-FLST
48-1744	99482-96	1995-96 FXST-FLST
48-0956	99482-98	1997-98 FXST-FLST
48-0708	99482-99	1999 FXST-FLST
48-0683	99482-00A	2000 FXST-FLST, deuce
48-0610	99482-01	2001 FXST-FLST, deuce
48-0614	99482-02	2002 FXST-FLST
48-0716	99482-03	2003 FXST-FLST
48-0628	99482-04	2004 FXST-FLST
48-0733	99482-05	2005 FXST-FLST
48-0754	99482-06	2006 FXST-FLST
48-0761	99482-07	2007 FXST-FLST
48-0776	99482-08	2008 FXST-FLST
48-0615	99501-02	2002 VRSC
48-0717	99501-03	2003 VRSC
48-0629	99501-04	2004 VRSC
48-0734	99501-05	2005 VRSC
48-0756	99501-06	2006 VRSC
48-0769	99501-07	2007 VRSC
48-0777	99501-08	2008 VRSC

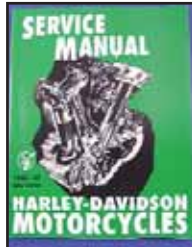


# Books & Manuals

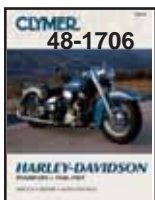


**Service Manuals** for years listed.

VT No.	Years	Model
48-0310	1940-58	45 Models Solo
48-1564	1959-73	Servi-Car
48-0299	1929-52	45 Engine Only
48-0308	1940-47	Knuckle + 74 & 80 Flathead
48-0316	1940-47	Big Twin, Knuck
48-0307	1948-57	Panhead, Rigid
48-1718	1959-69	Pan-Shovel
48-0692	1970-E78	Shovel

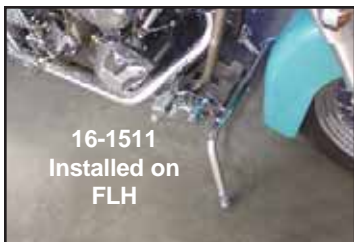


48-0316



**Clymer Manuals.**

VT No.	Year
48-1706	1948-65 Pan
48-1707	1959-85 Shovel



16-1511  
Installed on  
FLH



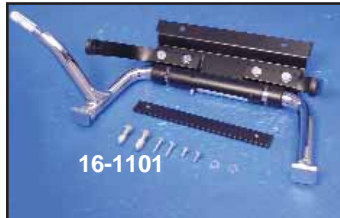
16-1511



16-1600 Installed



16-1600



16-1101

**Chrome Display Stand** shows off 'Dresser' on stand by standing upright, also able to check fluid levels. Tucks under floor boards when not in use.

VT No.	Fits
16-1511	1970-79 FLH
16-1600	1997-up FLT
16-1101	As Above Chrome



Bagger Products

**CAUTION: NOT FOR USE AS RIDE OFF STAND.**



48-0323



48-0314



48-0309

**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 Twins
48-0323	1936-48 Knuckle & Flat BT
48-0309	1941-54 74-80, 45 Servi
48-0314	1949-57 Pan
48-0313	1958-68 BT
48-0306	1954-65 K-XLH-XLCH
48-0304	1940-52 45 Solo
48-0319	1958-73 Servi Car



48-0311



48-0305

**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)
48-0311	1930-40 Twins (2)
48-0305	1941-56 Twins (3)



**Mechanics and Owners Guide for 1941-1959 Harley-Davidson OHV Big Twins** by Kirk Perry, 300 pages of drawings, photos and tips. **VT No. 48-1958**



**How To Restore Your H-D.** 640 pages. **VT No. 48-1738**



**Cross Index** cross references old 6 digit factory part numbers with new 7 number listing. Helps reference obsolete numbers in old parts books, 53 pages. **VT No. 48-0331**



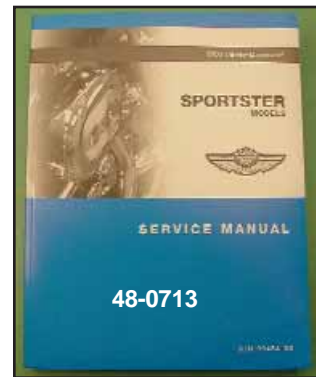
**V-Twin™ OEM Cross Reference Guide** with cross factory number to V-Twin Numbers on over 20,000 items. **VT No. 48-0011**

**The Most Comprehensive in the Aftermarket Industry!**

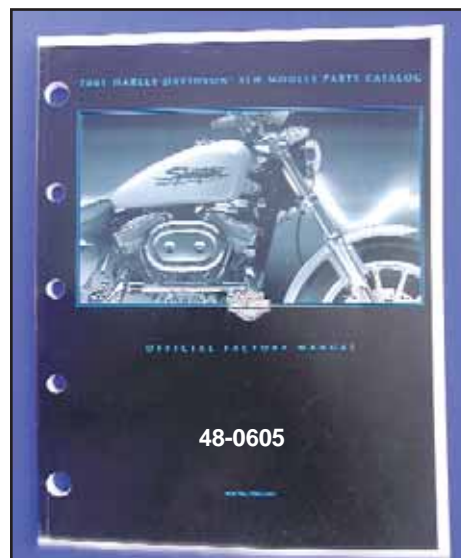




# Parts Books & Service Manuals for XL's



**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.

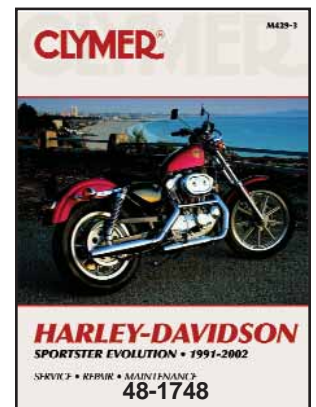
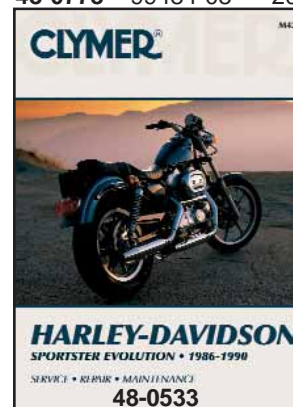


VT No.	OEM	Application
48-1719	99484-69	1959-69
48-0659	99484-78	1970-78
48-1723	99484-85	1979-85
48-0990	99484-90	1986-90
48-0991	99484-91	1991
48-1559	99484-92	1991-92
48-1586	99484-94	1993-94
48-0808	99484-96	1995-96
48-0964	99484-97	1997
48-0704	99484-98	1998
48-0705	99484-99	1999
48-0681	99484-00	2000
48-0606	99484-01	2001
48-0611	99484-02	2002
48-0713	99484-03	2003
48-0723	99484-04	2004
48-0726	99484-05	2005
48-0755	99484-06	2006
48-0757	99484-07	2007
48-0778	99484-08	2008

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.

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

VT No.	OEM	Application
48-0306	—	1954-65
48-0322	99426-77	1977 Cafe
48-0332	99451-78B	1954-78
48-0977	99451-85A	1979-85
48-0978	99451-90	1986-90
48-1557	99451-92	1991-92
48-1591	99451-93	1993-94
48-0987	99451-96A	1995-96
48-0953	99451-97	1997
48-0676	99451-98A	1998
48-0712	99451-99A	1999
48-0677	99451-00A	2000
48-0605	99451-01	2001
48-0616	99451-02	2002
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
48-0779	99451-08	2008



**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.	Application
48-0587	1959-85
48-0533	1986-90
48-1748	1991-02
48-1756	2004-up
48-1760	1986-03

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



# Finishes

VHT Special Finishes 13 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 enamel gloss  
 41-0144 Black barrel paint satin restores factory look to cast iron cylinders



41-0126



41-0149



41-0144



41-0123



41-0125



41-0124



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



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



**Kreem Heat Coating** protects pipes from bluing.  
 VT No. 41-0163



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



## Lubes

**Balance Plus and Tire Sealer** precision balances tire through centrifugal force allows for continuous balancing for life of tire, no need to remove weights. Eight oz. bottle does one tire.  
 VT No. 41-0153



**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         |



**X-Treem Products** are sold each.  
 VT No. Size Item  
 41-7001 32 oz. Cycle Cleaner  
 41-7010 8 oz. Cycle Wax



**Chrome Guard** is a heat resistant coating for exhaust pipes, sold each.  
 VT No. 41-0161



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





# Motor Oil



**Motor-Trans-Primary-Fork Lubes**  
OE type, including semi-synthetic transmissions lube for 4 and 5-Speed Big Twin FL-FXR-FXST models.



**Spectro Oils.** Special Blend in Premium or Golden synthetic blends, in quarts.



VT No.	OEM	Model/Type	Qty
41-0183	99816-2050	Motor SAE 20-50-360	12
41-0184	99816-50	Motor SAE 50-360	12
41-0185	99816-60	Motor SAE 60-360	12
41-0162	99892-84	BT Trans, Synthetic	Ea
41-0192*	99851-05	BT Trans Formulated	Ea
41-0150	99887-84	BT Chaincase	Ea
41-0154*	99896-88	XL Trans 1971-up	Ea
41-0178	99880-73	B Type Fork Oil	Ea
41-0179	99884-80	E Type Fork Oil	Ea
41-0191	99881-87	SE Type Fork Oil	Ea

\*Note: Also for Sportster Primary.

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	BT for Wet Clutch	12
41-0160	Synthetic Trans	1984-up 5 Spd, 75W-140 GL-1 5 Spd Big Twin	1
41-0186	85W140	Premium Trans Lube	12
41-0157	20 wt Fork Oil	Type E	12
41-0158	40 wt Fork Oil	Heavy	12
41-0159	14.5 oz.	Waterproof Grease	1



**Screamin' Eagle Synthetic 20W50 Lubricant** can be used in engine, transmission and primary chain case on all Evo, BT, Twin Cam and Evo XL models. Quart bottles, case of 12.  
VT No. 41-0188



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



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



**Brake Fluid** in DOT 3 for disc or drum, or DOT 5 for special requirements. Sold each.  
VT No. Size Type  
41-0146 12 oz. DOT 3  
41-0142 12 oz. DOT 4  
41-0145 12 oz. DOT 5

**Oil Change Service Kit**

**Includes:**  
**Chrome Motor Shop Filter**  
with  
**4 Bottles of Superior Spectro® Heavy Duty Lubricant**

VT No. Fits  
41-0050 1984-88 FXST, 1980-98 FLT, 1982-94 FXR, 1984-up XL  
41-0051 1991-98 Dyna  
41-0052 1999-up All TC-88 Big Twins

# Tools



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



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

Works Best!



# Sealants



## Thread Lockers and Repair by Loctite.

VT No.	Item/Size
41-2710	271 Red threadlocker High Strength, 6 ml.
41-2900	290 Green threadlocker Med Strength, 6 ml.
41-2420	242 Blue threadlocker Med Strength, 6 ml.
41-5921	Pipe Sealant with Teflon, 6 ml.
41-8166	Form-A-Thread for stripped threads, .44 oz.
41-1202	Tank Repair Flexible Ribbon Seals, .25 oz.



## Gasket Related Materials by Permatex.

VT No.	Item/Size
41-8116	Hi-Temp RTV Silicone Permatex, 3 oz.
41-8064	Remover Permatex, 16 oz.
41-8001	Form-a-gasket No. 2 Sealant, 3 oz.
41-8006	Hi-Tach Spray-A-Gasket Sealant, 6 oz.
41-8005	Clear Silicone Adhesive Sealant, 3 oz.
41-8003	Valve Grinding Compound, 1.5 oz.
41-8195	Vetra Slick Engine Assy Lube, 4 oz.
41-8034	White Lithium Grease, 1.5 oz.
41-2510	Fast Orange Hand Cleaner Pumice, 7.5 oz
41-0038	Prussian Blue



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

VT No.	#	Item
41-0110	C	Kreem Sealer
41-0112	A, B	Prep
41-0113	A, B, C	Kit
41-0180		Tank Degreaser
41-0181		Tank Surface Mask
41-0163		Blue Shield Exhaust coating, Pint



**Gasola 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 Hi-Temp Silicone** 2.8oz tube.  
VT No. 41-0182



**Würth® DP300 Sealer** has strong adhesive properties, 100 gram tube stands heat to 300°C.  
VT No. 41-0187



**Gaseinch Gasket Sealer** in a 4 oz can sold each.  
VT No. 41-0168





**Handy B.O.B. Motorcycle Air Lift** features drop out rear panel, 1500 capacity, foot pedal operation and a 40" max lift height. Requires 90-100 psi of air for operation. Includes wheel vise.

VT No.	Item
16-1985	Lift
16-1984	13" Front Extension
16-1983	12" Side Extension

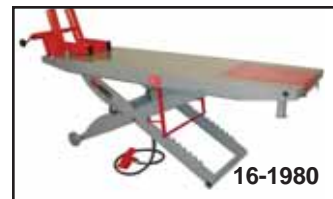


**Handy Motorcycle Air Lift** is designed for all shops. Ideal for raising up to 1000 pounds to 31" level for working on an infinite number of products. The Handy Air Lift is powered by a rugged pneumatic cylinder from your air source and allows operator to set up for up and down with automatic limit shut off. Packed in a 7" high package, when lift is in down position, for ease of on and off loading of machine. Cycle Vise wheel clamp fixture also included.

VT No.	Item	Height	Down	7"
16-1990	Air Lift w/Clamp	Raised		31"
16-1991	Wheel Clamp	Length	Table Ramp	80"
16-1986	13" Front Ext.	Width	Table	24"



**Handy Airlifts** are stocked in both New York and Kansas City warehouses. Requires full payment before shipment. We then ship prepaid freight charges to your address. Lift uses 100lbs. of air to operate.



**S.A.M. 1000 Air Lift** features 1000 lb lifting capacity, 84" table length, maximum work height of 30". Drop out rear panel and requires 90-100 PSI of air to operate. Includes wheel clamp.

VT No.	Item
16-1980	S.A.M. 1000 Lift
16-1981	13" Front Extension
16-1982	Wheel Clamp



**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
48-0182	Tie Downs	Wright
48-0650	Tie Down Assist	Wright

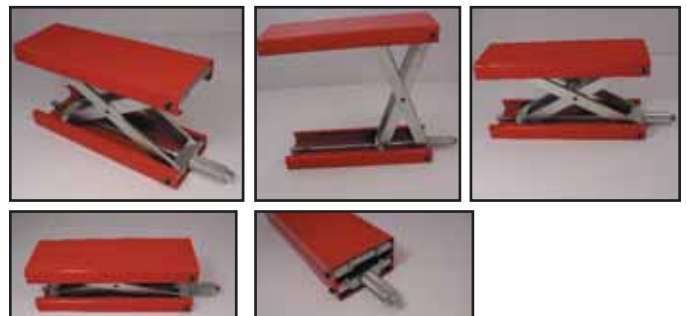


**Mini-Lift** use with table lift to raise bike while on table with 3" to 12" range 600lbs.  
**VT No.**  
**16-0211**



**Lean-Right Service Tool** is designed so that any Twin can be leaned over on either the right or the left side by hooking tool to bottom frame rail. Features a rubberized coating to prevent scratching of frame.

VT No.	Fits
16-0552	BT
16-0553	XL

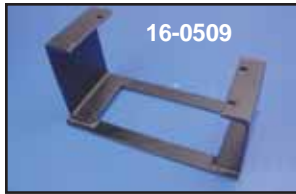




# Motor and Trans Work Stands



16-0507



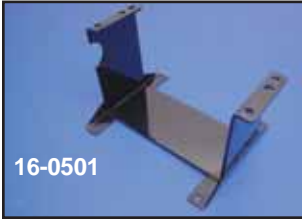
16-0509



16-0506



16-0500



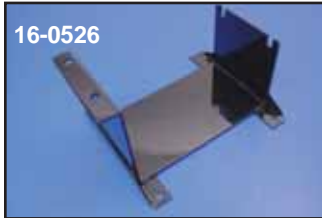
16-0501



16-1013



16-0504



16-0526

## Motor Stands

VT No.	Type
16-0507	1952-03 XL
16-0509	Big Twin Engine, Heavy
16-0501	Big Twin Engine, STD
16-1013	Big Twin Engine
16-0526	TC-88 Engine
16-1668	TC-88B Engine

Transmission Stands are welded steel for shop use.

VT No.	Type
16-0506	4 Speed Trans, Vise Mount
16-0500	4 Speed Trans, Bench Mount
16-0504	5-Speed Rubber Mount



Transmission Repair Fixture is a 4 position mount carriage in which a retractable pin allows transmission to be positioned in horizontal 45° right or left or full vertical. This will assist in loading gear-shaft groups or kick cover assemblies. Includes tab to affix chain for locking 4th gear main drive nut. Fits 4 or 5 speed cases.

VT No. 16-0508

# 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 sprocket shaft end to center and the two threaded holes in rotor to allow removal of rotor.

VT No. 16-1054



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

VT No. 16-0693



16-0691

**Trock Crankcase Repair Fixture.** A precision machined cast iron fixture that allows BT left hand crankcase o-ring seal area to be machined out so new sealing lip ring can be installed. Sealing ring is manufactured from ductile iron and must be loctited in place.

VT No. Item

16-0691	Fixture
16-0692	Sealing Ring
60-0164	Machine & Install Case for sealing





# Flywheel Tools



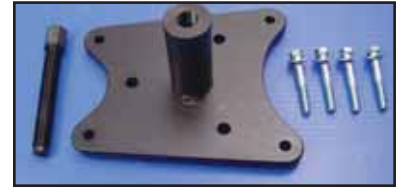
**Original Style Factory Type Crank Truing Machine** features cast Iron Construction. Designed to true stock style fly wheels. 10" swing right side, 6" swing left side, 18" maximum center to center. Weighs over 80 pounds.  
**VT No. 16-1000**



**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**



**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 Rebuilding Fixture.** Allows servicing and disassembly of flywheels in a standard shop vise. Holds unit from turning when tightening nuts, when installing or removing sprocket and pinion shafts.  
**VT No. 16-1002**



**Flywheel Spreader Tool** spreads wheels while truing for Big Twins and XL's.  
**VT No. 16-0517**



**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 Crank**

<b>16-1808</b>	23967-54A	54-81 XL	1/2"
<b>16-1809</b>	23966-54A	54-81 BT	1/2"
<b>16-1810</b>	23969-83	83-up BT	1/2"
<b>16-1813</b>	23901-81	81-up XL	1/2"
<b>16-0887</b>	23901-81	81-up XL	3/4"

**Pinion**

<b>16-1811</b>	24017-80	81-89 BT	1/2"
<b>16-0886</b>	24017-80	81-89 BT	3/4"

**Sprocket**

<b>16-1812</b>	24017-80	72-up BT	3/4"
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**Flywheel Thrustwasher Tool** holds washer in place while staking. Punch included. Fits 71-up Big Twin, 79-86 XL.  
**VT No. 16-1785**

# Wheel Chock



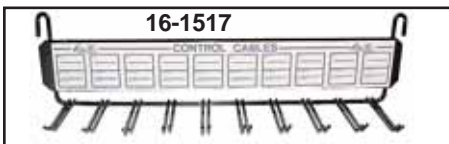
**Pingel® Wheel Chock** features quick mounting and removal by sliding in and out of slotted mount pads. Chock is a chrome steel tube. Mounting kit also available separately. The appearance of the Wheel Chock including the cross brace is a trademark of Pingel Enterprises. The brackets used in the Wheel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

**VT No. Item**

- 16-1501** Chock w/mounts, 16", 18" or 19" wheels
- 16-1503** Chock with mounts, 21" wheel
- 16-1502** Mount Kit

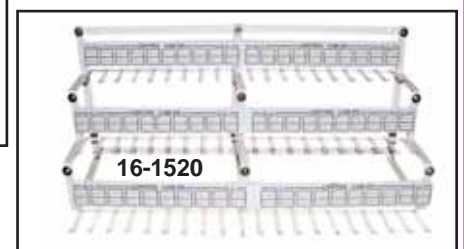


# Cable Racks



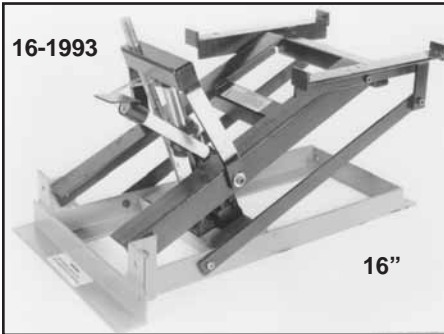
**Cable Racks** have epoxy finish, wall mount.

VT No.	Length	Capacity
<b>16-1517</b>	18"	50
<b>16-1518</b>	36"	100
<b>16-1519</b>	18 x 2	200
<b>16-1520</b>	36 x 3	500





# V-Lifts



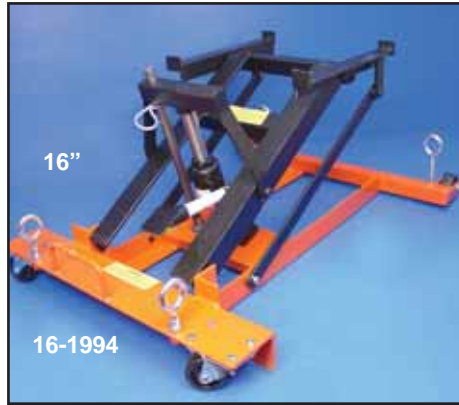
16-1993

16"



16-2008

24"



16"

16-1994

**Moto Shop Lift** has 16" lifting height, 1200 lb capacity, jack with foot operated pump and release mechanism, four 3" steel swivel casters, heat treated shoulder pivot bolts, four eye lock floor levelers, tie down hooks and stay bar w locking device. Locking device keeps lift in full up position. Lift is compatible with 1936-99 Big Twin frames. Unextended height is 4½".

**VT No. Item**  
**16-1994** Big Twin Lift  
**Lift Adapters** fit all V-Lifts and Moto Shop models. FXR-FXD models can be lifted with the kickstand in the retracted position.

**VT No. Fits**  
**16-2015** FXD-FXR, 1982-98  
**16-2028** FXD, 1999-up

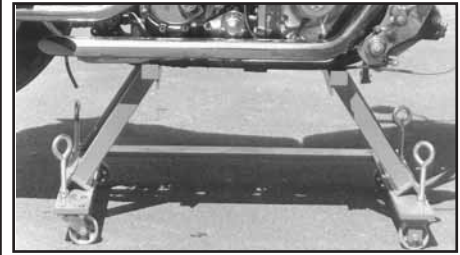
*All C-G lifts are manufactured in the USA using structural steels that exceed the lifting requirements. The lift mechanism keeps the motorcycle in a vertical position relative to the lifting platform during the entire lifting range. For the safe operation of the lifts, the manufacturer recommends the 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.*

**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 4½" 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
16-1993	16"	4 ton
16-2008	24"	6 ton

**Jack Replacement.**

16-2007	6 Ton
16-2006	4 Ton

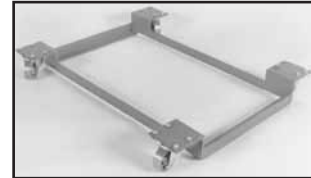


**Dolly Supports Project Motorcycles during construction**



**Roller Dolly** is used as a building stand or work station and facilitates the moving of bikes or projects out of the way. 16" tall dolly straddles all V-lifts, Moto Jack and Moto Shop lifts allowing 1936-99 Big Twin (except FXR-FLT-FXD) only to be lowered on dolly. Dolly comes with 4 wheels, 2 swivel and 2 fixed. Includes 4 eye bolts on corners which act as floor levelers and tie down hook posts. The 16" dolly accepts VT No. 16-1993, 16-1994, 16-2004, 16-2008, 16-2013, 16-2003 lifts. Not compatible with adapter plates.

**VT No. 16-1995**



**Standard Lift Trolley** allows 16" standard lift to be placed on trolley to be "Rollerized". Unit includes (4) four 3½" swivel wheels.

**VT No. 16-2016**

# Air Blaster



**Metro Air Force Blaster** the fastest easiest way to dry a bike. Features rugged all steel construction, 4.0 peak HP motor (29,000FPM), 10 foot hose and four interchangeable attachments. Blows clean filtered air.

**VT No. 16-1879**

**Blaster Sidekick Dryer.** A compact powerful handheld dryer that weighs approximately 3 lbs. and includes a 12' power cord, rubber neoprene nozzle and air flare attachment.

**VT No. 16-1880**

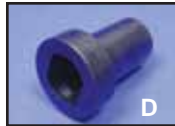
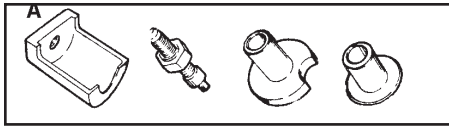




# Pinion Tools



**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**



**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.	OEM	#	Item
16-0129	96830-51	A	Puller Set
16-0162	96830-51	B	Jims
16-0406	—	C	Collar Set
16-0141	94555-55A	D	Nut Wrench
16-0168	As Above	D	Jims



**Crankshaft Locking Tool** locks all Big Twin crankshafts by engaging the pinion shaft splines. This allows removal and torquing of the pinion nut during installation. Replaces 41492-A.  
**VT No. Year**  
**16-1053** 1991-2002  
**16-1672** 2003-up



**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 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.	Fits
16-1666	1991-2002
16-1665	2003-up



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

# Piston Pin Tools



**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	A	95952-33	Clamping Tool V-Twin
16-0152	B	95970-32	Bushing Tool Jims
16-0154	B	95970-32	Bushing Tool V-Twin

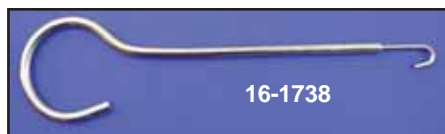


**Wire Type Wrist Pin Circlip Tool** easily installs and removes wrist pin clips without damage on 1984-up.  
**VT No. 16-0075**



**Wrist Pin Bushing Reamer** for 1973-99 late size Big Twin, 1957-up XL models, TC-88 models. By Jims.

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



VT No.	Item
16-1737	Piston Pin Press Tool
16-1738	Spring Removal Hook



**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

Installs Ring, 22582-52, in piston with wrist pin of .515 I.D.

16-1831	96781-72	Spiral	1973-77 All Models
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Installs Ring 22582-52 in piston with wrist pin of .535 I.D.

16-0987	34623A	Ring	1984-up Evolution All
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**Piston Pin Align Tool** fits through wrist pin bushings.  
**VT No. 16-1747**



# Crankshaft Installers



16-0065



16-0058

**Sprocket Shaft Bearing Removal & 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



**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

**Sprocket Shaft Timken Bearing Installer Tool.**

VT No.	OEM	Year	Model
16-0140	97225-55	1955-up	Big Twin
16-1836	As Above	Jims	
16-0149	97081-54	1954-76	Sportster
16-1837	As Above	Jims	
16-1056	42579	1977-up	Sportster
16-1760*	2.500 Long	1977-up	Sportster
16-1761*	2.060 Long	1977-up	Sportster

\*Note: Sold separately for 1977-up use with 16-0149 & 16-1837.



**Big Twin Cam Seal Installer Tool** can be used to remove or

install seal and will also remove cover from case. Fits BT, 1970-up.

VT No. 16-0675



**Crank Pin Nut Clearance Gauge.**

VT No.	Year
16-1855	1937-57
16-1866	1958-up



16-1758

**Sprocket Shaft Timken Bearing Inner Race Puller.**

VT No.	OEM	Model
16-1829	96015-77B	1977-E81 XLs
16-1758	96015-52	1952-76 XLs



16-1758



**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



16-1834



16-0661

**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®
16-0677	1986-94 Sportster, 1987-94 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



16-1796

**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 Twins
16-1796	1977-up XLs



16-0153

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

VT No.	OEM	Years Application
16-0153	97235-55B	1955-69 Installs Nut & 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.



**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



**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





# Lapping Tools

LAPPING TOOLS BY  
**EASTERN**  
MOTORCYCLE PARTS



**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



**1958-up Big Twin Case Lap Tool** features a lap which is supported on both sides by a pilot on the bushing side & plate which locates on the case pins of the cam cover, by Jims. Order lap & pilot VT No. 16-0881 for 1937-E77 4-spd main race separately.

VT No.	Item
16-1835	BT Case Lap Tool
16-0893	Case Lap Head only
16-0881	4-Speed Trans. Lap & Pilot
16-0892	4-Speed Lap Head only



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

Laphead Pilot#	Type	Fits
16-0032	1 3/4" Motor	1958-up Big Twin
16-0026	1 1/2" Motor	40-54 Big Twin
16-0025	1 3/8" Motor	54-76 Sportster 55-57 Big Twin 29-73 45"
16-0018	1.562" Motor	87-up Sportster
16-0034	1.870" Trans.	36-77 Big Twin
16-0024	1.300" Trans.	Sportster
16-0022	1 5/8" Rod	Big Twin XL
16-0021	1 1/2" Rod	45"



**Trans. Lap Head** includes pilot. For Eastern tool only.

VT No.	Size	Model
16-0020	1.870	BT 74 & 80
16-0019	1.300	1957-85 Sportster



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

VT No.	OEM	Type	Years
16-1724	96727-56	Motor	55-up BT
16-1725	96728-56	Motor	54-76 XL
16-1726	96715-40	1 1/2" Motor	30-54 BT
16-1727	96716-40	Motor	55-57 45", BT
16-1832		Motor	87-up XL



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

VT No. 16-0029



16-0147



16-1838

**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.	Brand
16-0147	V-Twin
16-1838	Jims



**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*	1955-06	Big Twin, Spline
16-1378*	2006-up	FXD, 07-up FL, FXST
16-1852	1957-up	XL, Spline

\*Note: Jims



**Jims Timken Bearing Race Installer** is used to press race in straight in left crank case for 1969-up BT, 1977-up XLs.

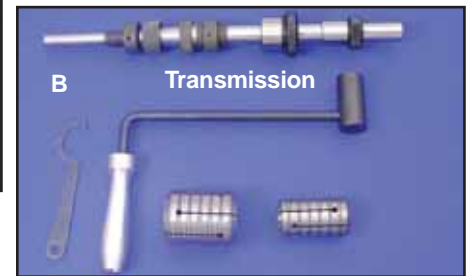
VT No. 16-0668



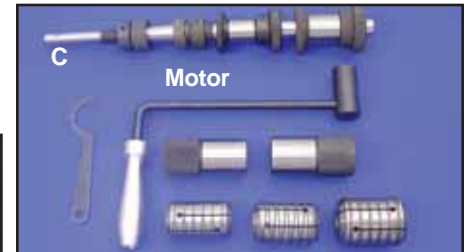
**1930-54 BT Flywheel End Play Gauge.**  
VT No. 16-0131



A Combo



B Transmission



C Motor

**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 BT 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	Motor	Big Twin	1936-up
16-0119	B	Trans.	Big Twin XL	1936-77 1952-83
16-0039	A	Combo	C & B	As Above
16-0012	All	Spanner Wrench		



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



**Sifton Flywheel Washer Tool** will "stake" washers in 1971-up BT.  
VT No. 16-1785



# Cam Tools



**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**



**Delkron Space-N-Time Tool** attaches to pinion shaft of 1970-up BT, allowing you to set cam end play, check gear lash, breather timing, valve timing, and 12 other checks for blue print quality engine building. Instructions included.  
**VT No. 16-0714**

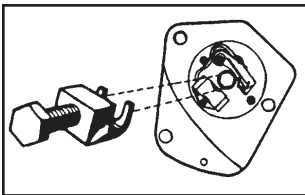


**S&S Degree Wheel Kit** designed to fit the sprocket shaft of any Big Twin or XL model. Each kit also comes with pointer that is held in place by center crankcase bolt.  
**VT No. 16-0909**

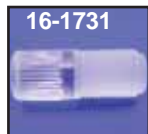


**Crane Cams Installation Tool** comes with easy instructions for the mechanic to install Crane's adjustable pushrods without removing the gas tank or rocker covers. In all FL-FX with adjustable pushrods, the tool makes it easy for cam changes. No removal of pushrods, pushrod covers, tappets or tappet guides. Tappets never have to fall out of the guides while doing cam changes.  
**VT No. 16-0030**

## Timing



**Acu-Time Device** locks advance mechanism on all 1970-78 models for accurate static timing. Includes instructions.  
**VT No. 16-0161**



**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



**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**



**Rite On Timing Tool** provides accuracy in timing of up to 70 degrees before or after TDC for all points on electronic ignition systems used on 1970-99 Big Twins. This tool allows one person to perform all timing from the right hand side of motorcycle and is more accurate than static timing.  
**VT No. 16-6739**



**TDC Indicator** is a 14mm tool that locates top dead center of piston with heads on engine, when degreasing camshaft.  
**VT No. 16-0047**



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



**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**



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

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





# Cam Tools



**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



**Evolution Camshaft Gear Alignment Tool** is used for degreasing camshaft to stock specification. Tool locks the radial position of the gear and camshaft together and allows the gear to be more easily and accurately pressed onto the camshaft.

VT No. 16-0485



**Cam End Play Checker** includes dial indicator for 1970-up models.

VT No. 16-0572



**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



**Troack Cam Jack** allows raising of cam shaft on 1970-up Big Twin models when cam cover is removed to change pinion gear or check clearances.

VT No. 16-0658



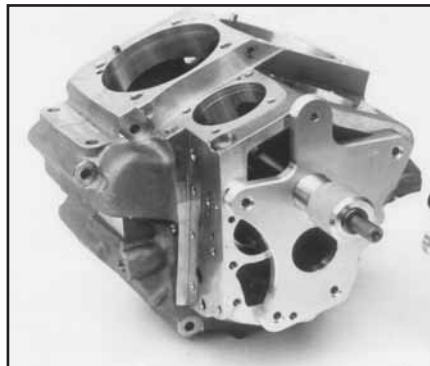
**Cam Bearing Gauge** is a Go-No-Go gauge to check if the cam is too tight or too loose in the 9058 Torrington Bearing on 1958-up Big Twins. Set of 2.

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



**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.	Item
16-0879	Cutter 1970-99
16-0915	Cutter TC-88
16-0880	Bit



**Evo XL Cam Relief Tool** allows the installation of high lift cams in 5-Speed XL models by removing some of case material at the base of the lifter bores and around the pinion bearing for lobe swing clearance. This tool cuts clearance quickly and can be performed on an assembled engine in the frame.

VT No. 16-0353



**Cam Bearing Tools (A)** will remove the 9058 Big Twin Torrington Bearing, (B) fastens to cam cover mount holes and will install new bearing.

VT No.	Item	Brand	Type
16-1827	Puller	Trock	A
16-0629	Installer	Trock	B
16-0660	Installer	Jims	



**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



**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	BT Needle	Sifton
16-1841	97272-60	BT Needle	Jims
16-0127	97273-60	XL Needle	Sifton
16-1857	97273-60	XL Needle	Jims
16-0711	—	BT Bushing	Sifton



# Cam Bushing



16-1780



16-1820



16-1814



16-1817



16-1818



16-1819

## Cam and Pinion Bushing Drill Jigs

allow the installation and drilling of a dowel pin to factory location supplied with #31 drill by Jims.

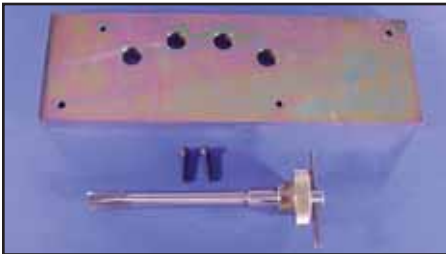
### Cam Bushing Drill Jigs



VT No.	Year	Models
16-1814	1936-69	Big Twin
16-1779	1970-99	Big Twin
16-1818	1954-up	XL

### Pinion Bushing Drill Jigs

VT No.	Fits
16-1820	1936-53 Big Twin
16-1780	1954-92 Big Twin
16-0882	1993-99 Big Twin
16-1817	1937-73 45"
16-1819	1937-48 74" & 80" Side Valve



**1991-up XL Crankshaft Bushing Plate Pilot & Reamer.** Reams in board camshaft and camshaft crankcase bushing, replaces 38871.

VT No. 16-1823



A



B

**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.

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



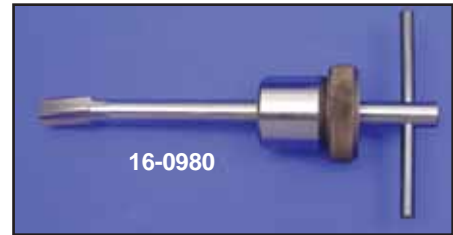
**Cam Cover Holding Tool** holds 1970-up Big Twin Covers while removing and installing bushings. Holds cover flat, to avoid scratches.

VT No. 16-0858



**Jims Cam Bushing Reamer and Fixture Plates**

VT No.	Year	Type
16-0697	1970-up	Cam Cover
16-1802	1936-69	Cam Case and Cover



16-0980

**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
		1-3-4 Cam Cover Bushing	
16-1830	1957-up	#2 XL Cam Bushing	
16-1797	94802-70	1970-up	BT Cam
16-1802	—	1936-69	BT Cam



16-1708



16-0839

**Cam Cover Puller** easily removes 74 & 80 cam cover on 1970-99 models.

VT No.	Brand
16-1708	Trock
16-0839	Sifton



**Sifton Cam and Pinion Gear Lash Tool.** The indicator base mounts to the gear cover and the indicator foot mounts directly to the end of the cam. A simple adjustment of the foot and you can see exactly what the gear lash is in .001" increments.

VT No. 16-0230





# Service Scan Tool



**Daytona Twin Tec Twin Scan 88 Tool** for all 2001-up TC-88 models with Delphi fuel injection system and all 2003-up TC-88 carbureted models with 12 pin ignition module. The Twin Scan 88 provides diagnostic capabilities not found in other scan tools. The Twin Scan 88 is especially useful for diagnosing hard to find intermittent trouble codes. The motorcycle can be operated while the unit is installed. Under normal conditions (no trouble code), the unit will store data for the last hour of operation. If a trouble code is set the unit automatically stops logging data 30 minutes after the code is set. Reads and clears diagnostic trouble codes from ECU module, turn signal module, speedometer and tach. Use laptop PC for display and includes Windows software.

**VT No. 16-0375**



**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

32-0380



**Pro EFI Race Tuner.** This software package will make tuning the EFI models a professional endeavor. It is divided into two mode:

- **Data (Real Time)**
  - **Tuning Changes**
- The kit includes**
- **CD Software**
  - **User's Manual**

Requirements for use are Windows 98, a CD-ROM, serial port, 32MB RAM, 10MB hard drive and a highly skilled technician. Replaces 32107-01F.

VT No.	Item
32-0380	Tuner
32-0382	Cable



**Oxygen Sensor Tool** will remove and install oxygen sensors on fuel injected models. Socket has 3/8" drive receive. Can also be used with 7/8" wrench. The socket can withstand 125 ft. lbs of torque. For 2006 Dyna Glide; all 2007 BT.

VT No.	Brand
16-1361	Jims
16-1131	Motorshop



**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 clears 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
16-0376	Twin Scan
16-0378*	Twin Scan II Plus

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



# Lifter Tools



### Sifton Tappet Guide/Oil Pump Alignment Tool.

Use to align tappet guide to engine case on all Evo 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** Evo Tappet Guide/TC-88 Oil Pump

**16-0977** 1/4" x 24



**Sifton Valve Lifter Remover** simplifies removal of frozen or loctited hydraulic lifters for Shovelheads.

Replaces 97102-81.

**VT No. 16-0988**



**Sifton Pushrod Cover Compressor Tool** allows removal and installation of pushrod clip.

**VT No. 16-1728**



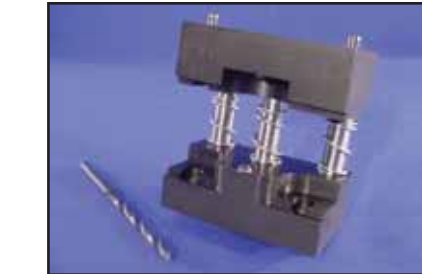
**Sifton Pushrod Adjustment Gauge** for use on Big Twins 1953-84 with hydraulic lifter. Replaces 91438-79. Complete with instructions.

**VT No. 16-0993**



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

**VT No. 16-1052**



### Sifton Tappet Roller Fixture.

Professionally positions and holds roller and tappet for removal and reassembly for all Big Twins including Evo. Instructions are included. Punch and drill not supplied.

**VT No. 16-0874**



**Sifton Magnetic Tappet Lifter** holds tappets up while changing cam on all Evo or TC-88 Engines.

**VT No. Engines**

**16-0720** Evo

**16-1035** TC-88



**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 lifters.

**VT No. 16-0819**



### Tappet Guide Puller Tool

for 1957-85 Sportster, replaces 95724-57.

**VT No. 16-0157**

# Early Tools



**16-1735**



**16-1787**



**16-1787**

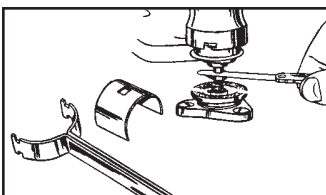
### Tappet Guide Puller Tools.

**VT No. OEM Fits**

**16-1735\*** 11906-38 1930-73 45 SV, 1930-40 BT SV

**16-1787** 11906-38 1941-48 BT SV

**\*Note:** Use on all Flatheads with screw type valve covers.



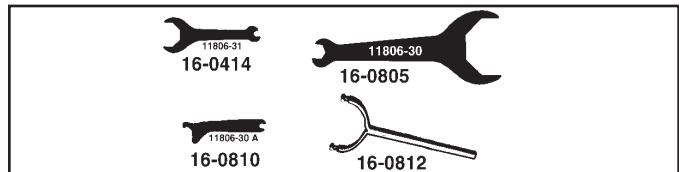
Adjust tappets so that there is .004" to .005" clearance between intake valve stems and tappets, and .007" to .008" clearance between exhaust valve stems and tappets.



### Gas Valve Shut Off Tool

replaces 96365-42 to correct alignment of bottom and top holes of 1940-65 gas tanks.

**VT No. 16-0615**



### Valve Cover Wrenches.

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

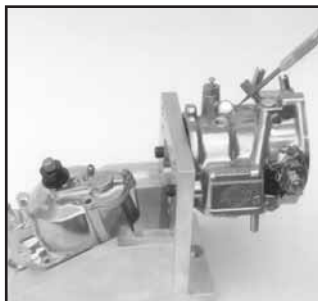


### Kit Tools Sold Separately.

VT No.	OEM	Use
<b>16-0804</b>	11929-39	45" Tappet & Spark Plug
<b>16-0806</b>	11904X	Tappet Wrench, pair
<b>16-0816</b>	12051-30	74 Axle Sleeve
<b>16-0818</b>	11814-35	45" Axle Sleeve
<b>16-0817</b>	11815-26	5/8" x 11/16" All Purpose
<b>16-0808</b>	11804X	9/16" x 1/2" All Purpose
<b>16-0144</b>	12039X	Chain Breaker
<b>16-0822</b>	11814-26	45" Rear Axle
<b>16-0814</b>	94426-78	1 1/16" Rear Axle
<b>16-0815</b>	94427-78	1 5/16" Front Axle
<b>16-0813</b>	94428-78	3/4" Wrench







**ThunderJet™ Installation Fixtures** facilitate Thunder-Jet™ installations in S&S and Keihin CV carburetors. Designed to hold the carburetor for precise locating of the Thunder-Jet's™ components. Fixture for S&S carburetors can be clamped or bolted to mill table; float bowl and carb body bolt to it at correct angles for machining. CV fixture can be clamped in a vise; it has drill guide bushings for use with a hand drill motor.

VT No.	Fits
16-0782	S&S E/G, B/D
16-0783	Keihin CV
16-0784	Jet Tool, All



**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 9/32" x 32,  
 Some early carbs require drilling and tapping for jet installation.



**Slow Jet Screw Driver** facilitates removal of Keihin slow jets with no damage to jet.

**VT No. 16-0546**

# Carb Tools



**Induction Alignment Bracket Kit** will insure accurate installation of intake manifolds on TC-88 and Ev 1340cc engines with CV Carb or electronic fuel injection replaces 40054-01.

**VT No. 16-1004**



# Hose



**Hose Clamp and Tool.** Stock type clamp closing tool and clamps in bags in as sized (I.D.).

VT No.	OEM	I.D.	Use/Fits
16-0053	10080	11/16"	Feed Drain
16-0062	10014	17/32"	Gas Hose
16-0060	9992	23/64"	Battery Vent
16-0061	9996	7/16"	Oil Hose
16-0052	10086	13/16"	Drain Hose
16-0064	10020A	45/64"	Oil Filter, 1979-up XL
16-0082	10142	13/16"	Oil Line, 1995-up XL
16-0063	10038	19/32"	Brake Hose Reservoir
			1982-up FLT-FXR-FXST
37-8933	10067	1/4"	Battery Vent Hose
16-0081	10117	1/2"	Cam Cover Fitting Oil Line Vent, 1993-up XL
16-0080	Plier and Clamp Assortment		
16-0050	97087-65A	Tool Plier Only	



**Oil Gas Line Clamp Assortment** includes pliers. Refill for clamps as noted by Oetiker#.

VT No.	Oetiker No.
16-0080	Service Kit
16-0083	Pliers only
16-0062	16700995
16-0084	16700999
16-0081	15500003
16-0085	15500009
16-0053	16701009



**Fuel-Oil Line** in 25 ft shop rolls in reinforced black or clear for fuel use.

Black	Clear	Size
40-9999	—	1/8"
40-0117	40-1250	3/16"
40-0118	40-1251	1/4"
40-0119	40-1252	5/16"
40-0120	40-1253	3/8"
40-0253	—	3/8" (6')
40-0126	—	1/2"



**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**



# 2006-up Dyna/2007-up for FXST-FLT



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



**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 Dyna and 2007-up FXST-FLT models.

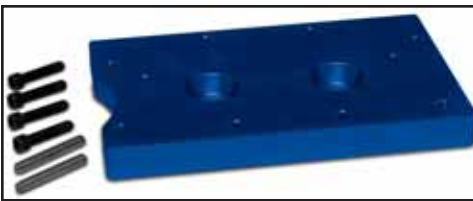
VT No. 16-1350



**Jims Primary Locking Tool** use this tool to lock clutch hub sprocket to the front engine sprocket. Allows removal or torquing of clutch hub and engine nuts. Use on all 2006-up Dyna and 2007-up models.  
VT No. 16-1357



**Jims Inner Cam Bearing Remover Tool** allows removal of needle bearing and will also keep needles from falling into engine. Use on 2006-up Dyna and 2007-up FXST-FLT models.  
VT No 16-1351



**Jims Transmission Door Removal Tool** use this tool to pull complete door with gears and shafts from

transmission. Use on 2006-up Dyna and 2007-up FXST-FLT models.

VT No. 16-1358



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



**Jims 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 Dyna and 2007-up FXST-FLT models.

VT No. 16-1359



**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 Dyna and 2007-up FXST-FLT models.  
VT No. 16-1353



**Jims Inner Cam Bearing Installer Tool.** Use this tool to press in the two inner cam bearings without damage to bearings. Installs bearing to proper depth in case. Use on 2006-up Dyna and 2007-up FXST-FLT models.

VT No. 16-1360



**Jims Case Splitter.** Use this tool to break the case sealant by pushing apart both case halves. Use on 2006-up Dyna and 2007-up FXST-FLT models.  
VT No. 16-1354



**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 Dyna.

VT No. 16-1373



**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



**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







# TC-88 Tools



**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**



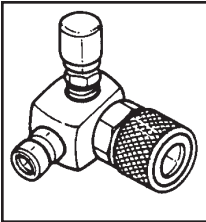
**Jims TC-88 Wrist Pin Remover** allows easy removal of wrist pins on all TC-88.  
**VT No. 16-1276**



**Jims TC-88 Cylinder Torque Plates** lasered with correct torquing sequence and will also work on Screamin' Eagle Big Bore Cylinders.  
**VT No. 16-1287**



**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**



**Fuel Pressure Gauge Adapter.** Two adapters must be used to check fuel pressure on 2001 and later Softail models. Replaces 44061.  
**VT No. 16-1289**



**Gasket Locator Tool (3 Pc Set)** will align primary, cam & transmission end cover gaskets, to prevent misalignment & oil leaks.  
**VT No. 16-1362**

## Tools for V-Rod



**V-Rod Service Tools** by Jims.  
**VT No. 16-1130** Clutch Alignment  
**16-1667** Clutch Hub Holder



16-1667



**Sprocket Shaft Bearing & Seal Installation Tool 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 Dyna Glide; all 2007 BT.  
**VT No. 16-1364**



**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, pr  
**60-0132** Machine Head and Install Release Valves



**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**



**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**





# Tools for TC-88



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



**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 TC-88 Connecting Rod Bushing Tool** use to remove and replace wrist pin bushing without removing connecting rods from crankcase.  
**VT No. 16-1051**



**Inner Primary Cover Bearing & 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; 85-06 FLT/FLHT/FXR/FXD/FXDWG  
**VT No. 16-1367**



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



**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**



**Jims TC-88 Cylinder Torque Plates** lasered with correct torquing sequence and will also work on Screamin' Eagle Big Bore Cylinders.  
**VT No. 16-1287**



**Jims TC-88 Inner Cam Installer** positions the two inner cam needle bearings and perfectly aligns to the shaft bores for a precision press fit.  
**VT No. 16-1278**



**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 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 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 swingarm 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 & FLTR.  
**VT No. 16-1365**



**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 & installation of clutch shell ball bearing (OEM# 37906-90) with damage to new bearing.  
**VT No. 16-1366**



**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**



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



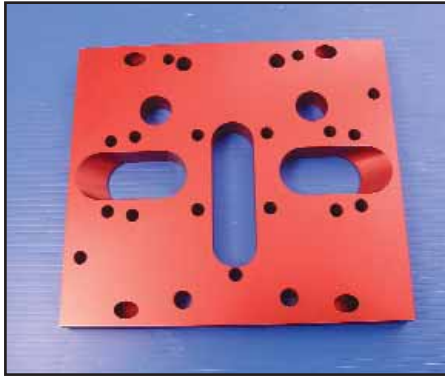




**Head Holder Tool** by Pingel® has 12 and 14mm ends to hold head through spark plug hole, by support in a vise.  
**VT No. 16-1842**

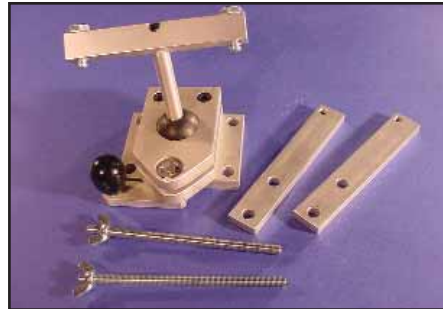


**Cylinder Head Support Stand** fits Evo, Shovelhead and Ironhead Sportsters. Adapters are to be used with a bar press and the stand included to push guides in and out in a straight line. Set includes stand and 6 adapters.  
**VT No. 16-0651**



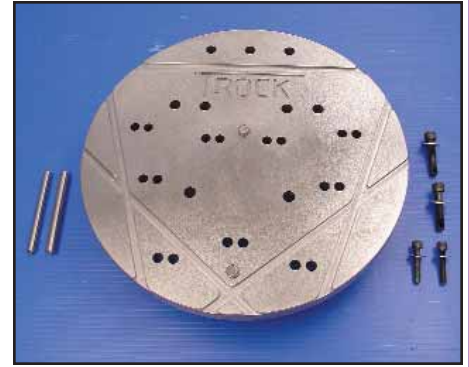
**Powerhouse Head Plate** anodized aluminum plate that will hold Evolution, Shovel and Sportster Cylinder Heads for porting, polishing, guide work, grinding seats and check stem heights. Can also be used for mounting on a seat and guide machine or bolting to a resurfacer. Order peg-style head holder separately.

VT No.	Item
16-0524	Head Plate
16-0525	Peg Holders



**Ball Vise** allows positioning of heads for porting.  
**VT No. 16-0577**

## Head



**Trock Evo Cylinder Head Face Plate** is a cast iron fixture used to locate dimensions on all Evo 1984-up cylinder heads for rocker box bolt pattern, exhaust flange head bolt studs, and head surface.  
**VT No. 16-1772**



**Clone Speed Wrench** allows removal of head bolts on 1936-84 OHV models (after they are broken loose with wrench).  
**VT No. 16-0953**



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



**Jims TC-88 Wrist Pin Remover** allows easy removal of wrist pins on all TC-88.  
**VT No. 16-1276**



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

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

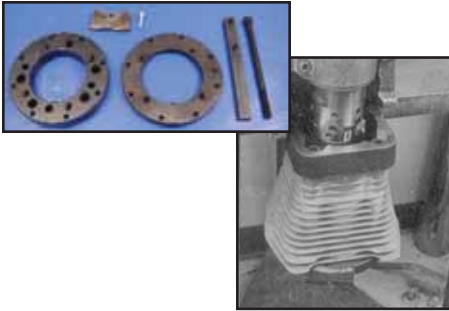


**Rocker Arm Refacer.** The rocker arm refacer in combination with an ordinary drill press allows you to do an excellent job of refacing pitted and worn rocker arms on Shovel, Evo and Sportster models.  
**VT No. 16-0754**

## Rocker Arm



# Cylinder



**S&S Evo Cylinder Torque Plate Kit** simulates stress conditions when boring and honing Evo Cylinders. Machined from chromemoly steel, fits all Big Twin 1340 and Sportster 883-1100-1200 cylinder, and 35/8 S&S cylinder.

**VT No. 16-0928**



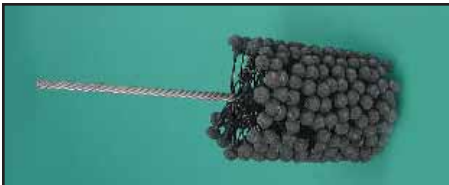
**Cylinder Torque Plate Kit** by Delkron tool fits Shovel and Evo cylinder up to 4" bore to simulate stress condition when boring and honing cylinders. Order studs for XL separately.

VT No.	Item
16-0929	Delkron BT
16-0940	Delkron, Studs for Ev XL



**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 Evo Twins. Set of 4.

**VT No. 16-0446**



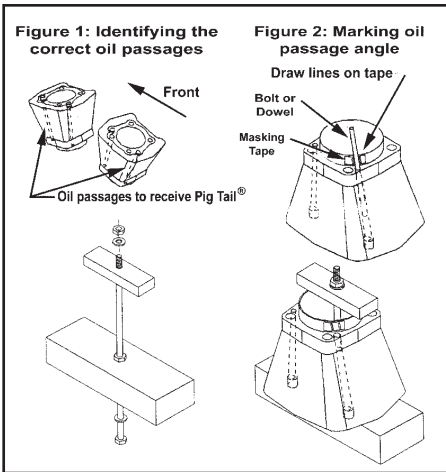
**Cylinder Wall Flex Hone** features silicone carbide globules which allow the deglazing of cylinders 3" to 4 1/4" when powered by a 3/8" or larger drill, 180 Grit.

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



**Jims Evo 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 Evo crankcases.

**VT No. 16-1409**



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



**VT No. 16-0912**

**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



**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 Pan and Shovel head bolt patterns in one end. The other end has been finished with the cylinder base patterns of Knuckles, Pans, Shovels 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 11/16 Spacer
16-1869	7/8 Spacer



**Troch Cylinder Base Lapping Plate** is constructed of cast iron and has 2 sides to lap warped Stock Evo or 3 5/8" Cylinder base, supplied with compound.

VT No.	Item
16-0713	Plate
41-8003	Compound





# Cylinder

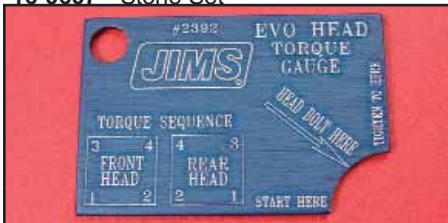


**Sifton Dowel Guide Plate** is precision drilled to press cylinder dowels in straight on 1984-up BT and XL models.  
**VT No. 16-0837**



**Cylinder De-Glazer** feature spring action on the stones keep the stones against the cylinder wall at the correct pressure. Capacity 2" to 5 1/2".

- 16-0610** De-Glazer
- 16-1759** Set of 3 replacement stones 220 medium grit
- 16-0607** Stone Set



**Head Bolt Torque Gauge** for all Evos. This accurate gauge allows the measuring of 90° when tightening Evo head bolts. Torquing sequence lasered on gauge. Use on all 1984-up Evo models.  
**VT No. 16-0679**

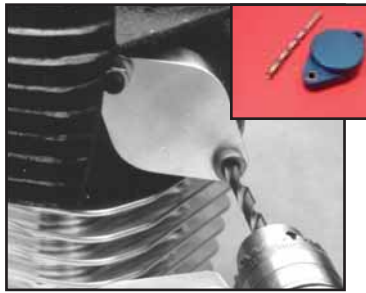


**Piston Ring Installer with Safety Stop** insert ring ends in jaws, then expand gently

and slip over piston into groove. A simple time saving tool. Wedge jaw handles 3/64" to 1/4". Also removes rings without damage.  
**VT No. 16-0628**



**Jims Piston Pin Support Plate** provides a non-marring flat support to push the bottom of the piston against as rings and cylinder are installed over piston. Use on all 1936-up Twins.  
**VT No. 16-1164**



**Exhaust Stud Drill Fixture** fits 1984-up Ex BT & XL ports to align for drilling of broken exhaust stud.  
**VT No. 16-0698**



**SPI Hole Micrometers** are used to determine cylinder bore size (2.80-3.20)  
**VT No. 16-7433**



**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**

# Piston



**Piston Ring Grinder** accurately sizes end gap on any piston ring by rotary filing.  
**VT No. 16-0976** Grinder  
**16-0722** Replacement Cutter File



**Ring-O-Matic Ring Compressor** has pliers which incorporate precision locking action for exact holding and quick release. Includes pliers and 6 bands, size range from 2 7/8" thru 4 3/8". Complete kit.  
**VT No. 16-0622**



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

- | VT No.         | Item            |
|----------------|-----------------|
| <b>16-1845</b> | Assembly Tool   |
| <b>16-1846</b> | 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 Evo and 1986-up XL.  
**VT No. 16-0891**



**Multi-Blade Groove Cleaner** offers a 1-piece blade arrangement for 1/16", 5/64", 3/32", 1/8" & 3/16" groove widths. Available for pistons 2 to 5 inches in diameter. **VT No. 16-0619**



**Jims TC-88 Piston Pin Alignment Tool** use on all TC-88 A or B motors with .927" diameter wrist pins.  
**VT No. 16-1148**



# 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. 16-1774**



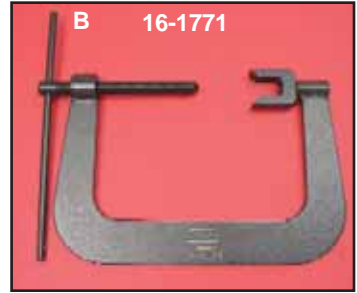
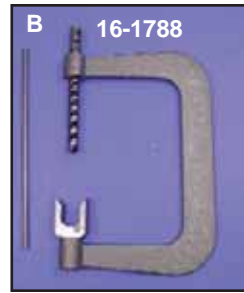
**Rear Intake Valve Spring Compressor.** Compresses intake valve spring on the rear cylinder of the ST so the rocker box can be removed while the engine is still in the frame. It does this without damage to the valve stem, valve spring, or rocker cover. Replaces 34641.

**VT No. 16-0868**



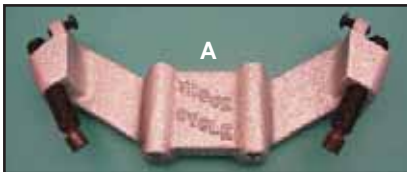
**Valve Grinding Stick** for hand grinding valves. Synthetic rubber vacuum cup is resistant to oil, grease and gasoline. 15/16" cup diameter.

**VT No. 16-0604**



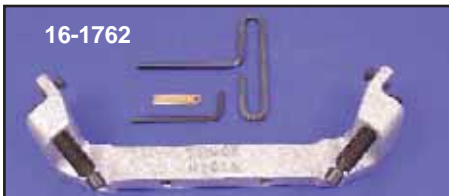
**Valve Spring Compressors** Factory style replaces 96600-36 for all Big Twins OHV.

VT No. #	Fits	Brand	Fits
16-0146A	1936-84	Replica	BT
16-1771B	1936-up	Jims	BT/Evo
16-1788B	1936-up All	Sifton	BT/Evo



**Trock Valve Travel Checkers** are the most accurate method of measuring valve travel on Shovel, Evo, TC-88 or Sportster. If valve guides or springs do not have proper clearance, a valve checker will pinpoint the problem easily.

VT No.	#	Type
16-0753	A	Evo/TC-88
16-0752	B	Sportster
16-0751	C	Shovel
16-1762		Panhead
16-0750	D	Dial Indicator



**Valve Stem Height Gauge** features one side reading in direct lift and the opposite side on .025" increments, making stem height easy to measure.

**VT No. 16-0143**



**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**



**Clutch and Valve Spring Tester** fits springs up to 2" diameter and 4 1/2" free length and accurately measures pressure from 0-300 pounds, in one pound increments.

VT No.	Item
16-0632	Tester
16-0653	Drill Press Flange



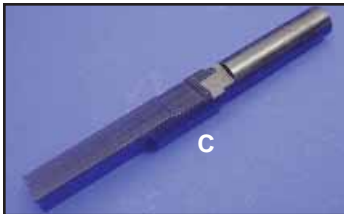
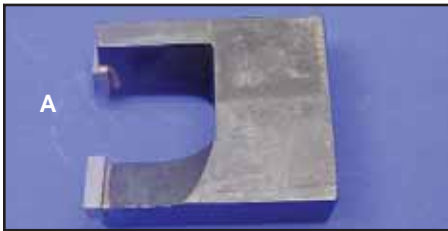


# Valve Guide



**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



**Machining Tools.** Value spring seat and valve guide machining tools are job-shop quality with carbide cutting tops. Used for lowering spring seats or high lift cams and for machining valve guide outside diameters for Teflon valve stem seals.

VT No.	#	Application
16-0172	A	Spring Seat Machining Tools 1948-84 61"-80" Cuts Spring Seats to 1.630" O.D. 16-0174 Arbor required
16-0171	B	1984-up Evo 80", cuts 5/16" valve guides to .531" O.D., arbor included
16-0174	C	Arbor for 3/8" valve guides
16-0175	C	Arbor for 5/16" valve guides



**Valve Guide Oil Seal Kits** include 4 pieces of proper guide seal and installation tool. Tool sold separately.

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



**Valve Guide Plug Gauge Kit** includes 12 gauges (.3105, .3115, .3120, .3405, .3410, .3415, .3770, .3755, .3780, .3785 and .3790) and 2 handles.

VT No. 16-0758



**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



**Manley Valve Spring Seat Cutter** is designed for cutting valve spring seat to gain sufficient

spring height when Manley kits are used with high lift cam.

VT No.	Fits
16-0400	1948-84 BT .500"-.600" lift cams
16-0402	1957-84 XL .500"-.600" lift cams



**Shoulderless Valve Guide Installer.** Takes the guess work out of valve guide installation on all Evo motors and insures that the guide is installed to proper depth.

VT No.	OEM	Item
16-0869	34731	Installer
16-0872	34740	Driver



**Valve Guide Pusher** lets you push guides into the head rather than use a punch. By Rowe.

VT No.	Fits
16-1828	1984-up Evo
16-1854	Pre-Evo



**Valve Guide Driver & Sockets** install shoulderless 83-up XL & Evo guides to correct depth. Includes 3 sockets, 1 driver.

VT No. 16-0422



Valve Guide Reams. Sold each.			
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		

**Valve Guide Seal Installer** installs valve guide seals to proper height without damage, for Shovel. OEM 35103.

VT No. 16-0870



# Wrenches



**Evo Rocker Box Cover Wrench** is designed to reach 3/16" allens on Evo Big Twins and Sportster models. Features a 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**



16-6530



16-6529

**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 & engine, long handle for increases reach and replaceable bit.

**VT No. Item**  
16-6529 Wrench  
16-6530 Replacement Bits



**Intake Manifold Allen Wrench** cuts work in half, no need to remove gas tanks, on all Evo BT & Sportsters. **VT No. 16-1806**



16-6531



16-6532

**Lower Rocker Box Wrench for Evo & Twin Cam Models** is used to install and remove lower rocker 7/16" mounting bolts.

**VT No. Fits**  
16-6531 Evo  
16-6532 TC-88



**Exhaust Bracket Wrench** used to remove and install front exhaust bracket bolts on all 1999-up TC-88 Dyna models. **VT No. 16-6538**



**Speedometer Sending Unit Wrench** features a shortened 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**

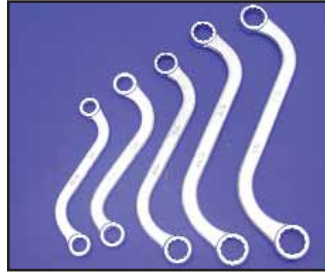


**Oil Pressure Gauge and Indicator Lamp Sending Unit Wrenches.** These reversible ratcheting wrenches are used to install and remove oil pressure indicator lamp or gauge sending unit on all FL Touring models 1999-up.

**VT No. Item**  
16-9723 Indicator Lamp  
16-9724 Sending Unit



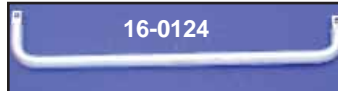
**Left Rear Motor Mount Bolt Wrench** allows removal and installation of left rear motor mount bolt on Big Twins without removing the inner primary cover. **VT No. 16-0518**



**5 Piece "S" Box Wrench Set** includes 3/8 x 13/32, 7/16 x 1/2, 9/16 x 19/32, 5/8 x 11/16, 11/16 x 3/4. **VT No. 16-0013**



16-0108



16-0124



16-0107



16-0103

## Shop Wrenches.

VT No.	OEM	Use
16-0141	94555-55A	BT Pinion Nut, 1954-up
16-0106	94644-65	BT Primary Shoe, fits through cover access hole
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	Cyl. Base, Head Bolt fit 9/16" Nuts
16-0804	11929-29	Spark Plug & Tappet
16-0103	94501-56	Circuit Breaker BT 17/18" Hex
16-0067	12047-30	UL Head Bolt
16-0068	12047-36	OHV Head Bolt



**Manifold-Side Car Wrenches** large type, heavy duty for shop use.

VT No.	OEM	Size	Use
16-0111	94536-18	1 3/4"	Side Car
16-0110	94537-26	1 7/8"	45 Manifold
16-0112	94538-30	2"	SV Manifold
16-0109	94538-48	2 1/8"	BT Manifold





10-0568



10-0569

**Powerglide II™ Advantage.** For over a year, the Jims R&D team has been developing a tappet built for today's engine dynamics. Big power, big torque, increased spring weights, greater piston speed, etc... means increased demand on the tappet & tappet roller. Jims is proud to introduce the **PowerGlide II**. This tappet has undergone extensive development to increase its load, lubrication, hydraulic and life capacities. Jims has been manufacturing tappets for over 30 years, and is the only aftermarket manufacturer that manufactures tappets in house. The Powerglide II, has all the advantages of it's predecessor-billet body, superior hydraulic unit, roller perpendicularity held to .0002", hand-honed hydraulic unit cavity, and now includes the following advantages:

- The total Dynamic load capacities have been increased over 30% straight across the board.
- The lubrication capacities for the hydraulic unit and valve train (top end) have increased 10%.
- The lubrication capacities for the roller cams, and cam bearings have increased 100%. (Increased cooling)

**VT No. Item**

**10-0568** Performance Hydraulic Tappet, for use with Twin Cam

**10-0569** Performance Hydrosolid Tappet, for use with Twin Cam

# New for '08



**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 aluminum 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**

## For TC-88 B



**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**



**Outer Balancer Bearing Installer & Remover Tool** removes and installs the out-board balancer bearing on the new 96" & 110" "B" Softtail engines chain guide support plate.

**VT No. 16-1376**



**Balancer Shaft Inner and Outer Bearing Remover and Installer** for TC-88B models 2000-up includes thrust bearing. Replaces 44066.

**VT No. 16-0540**



**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**



**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 counterbalancer shaft into the new Twin Cam 96" or 110" "B" Softtail engine case. For removal of balancer shaft from the engine case use Jims tool No. 960.

**VT No. 16-1377**





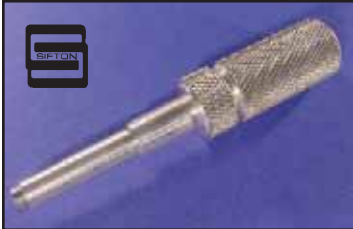
# Oil Pump



**Sifton Oil Pump Check Ball Reseater** will recut the seat to allow

the ball to sit properly to prevent sumping for BT and XL aluminum and cast iron pumps.

**VT No. 16-0519**



**Sifton Oil Pump Pressure Relief Plunger Tool** is designed to safely remove the pressure relief plunger from oil pump without damaging the oil pump bore. Can also be used in priming of the oil system before startup. Use on all Big Twins with aluminum type oil pump.

**VT No. 16-0210**



**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 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.

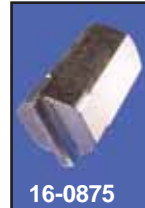
**VT No. 16-0890**



**Oil Pressure Switch Wrench** installs and removes oil pressure switches without damage to the switch, the extension

handle is not used when servicing Sportsters used on 1340cc Evo, and late 1983-84. Sportster replaces 34816.

**VT No. 16-0990**



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**



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

**VT No. 16-0986**

## Wiring Tools



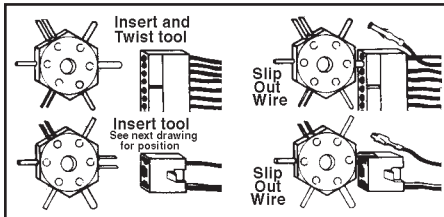
**Deutsch Terminal Crimping Tool** is designed to correctly crimp Deutsch Connectors. Replaces 39965.

**VT No. 16-1295**



**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**



**Wire Terminal Tool** replaces 97362-71, depresses terminal lock tabs in disassembly of factory wiring harness.

**VT No. 16-0959**



**Wire Terminal Tool** crimps factory style wire end.

**VT No. 16-0710**



16-1293



16-1295

**Terminal Crimper** is used for the new smaller multi lock terminals.

**VT No. OEM Fits**  
**16-1293** 44695 01-up model w/fuel gauge  
**16-1295** 39965 Deutsch Connectors



**Spark Plug Wire Tool** strips 7 and 8 mm ignition wire, crimps spark plug and distributor terminals.

**VT No. 16-0514**



**Volt Meter** reads 8-16 volts on a 48 mm diameter face.

**VT No. 32-0702**





# 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 pc, black heat shrink and 12pc red heat shrink. Available with clear or black cable.

<b>VT No.</b>	<b>Item</b>
<b>32-1350</b>	Clear Kit
<b>32-1351</b>	Black Kit
<b>16-0351</b>	Crimping Tool



**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.

<b>VT No.</b>	<b>Type</b>
<b>16-1792</b>	12 volt
<b>16-1793</b>	6 volt
<b>16-1870</b>	12 volt, Junior Tender
<b>16-1871</b>	6 volt, Junior Tender
<b>16-1794</b>	Snap Cord



**Battery Booster Cable Set.** 10 feet in length. 10 gauge in size.

**VT No. 16-0350**



**Battery Tender Lightweight Chargers (Power Tender).** 6 amp features ring type terminals without quick disconnect.

Available for standard lead/acid batteries or sealed AGM batteries.

**For Lead/Acid Batteries**

**VT No. Volts**

**16-1873** 6

**16-1875\*** 12

**\*Note:** Also For Sealed AGM Batteries



**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**



**Chrome “Motor Style” Battery Tender.** Charges and maintains voltage on 2 batteries at once at .800 amp for conventional batteries or maintenance free batteries. An internal sound chip mimics the sound of a motorcycle engine starting when you connect the charger to a battery. There is also a button to let you activate the sound.

**VT No. 16-0547**



# Mainshaft



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



**Big Twin Mainshaft Seal Remover & 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

### Additional Drivers for Above

16-0702	1977-86	4, (2.4 O.D.)
16-0703	1979-81	5
16-0701	1980-84	5
16-0700	1985-up	5



### Mainshaft/Drive Bearing Press Tools.

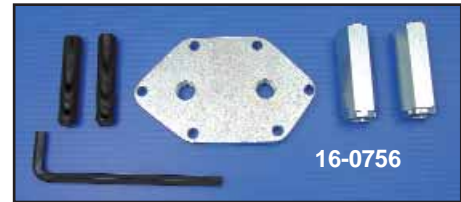
VT No.	OEM	Fits	Press
16-0105	33428A	79-84 BT	4-spd Shaft
16-0036	34734	79-90 BT	5-spd Seal
16-0028	34810	1984-90 XL	Drive
16-1767	37842	1991-up BT-XL	Drive



**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



**5-Speed Transmission Door Remover & Installer** removes and replaces the door bearings. Saves time as the complete transmission does not have to be dismounted 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 & Installer

16-0663 Jims Remover Only

16-0731 Jims Installer Only

16-0672 Bearing Remover



**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 Big Twins 1980-up.

VT No. Type

16-0994 Main Drive Gear Installer

16-0718 Main Drive Bearing Remover



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

VT No. 16-0877

# 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.



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

VT No. Use

16-0680 4-Speed BT's & 5-Speed FXST

16-0681 5-Speed FXR-FLT

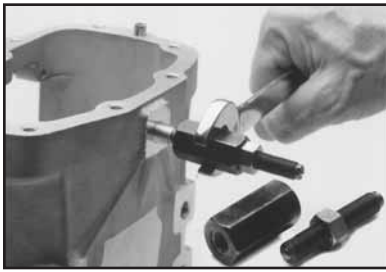
16-0682 1991-up Sportster & Buell®







# Transmission

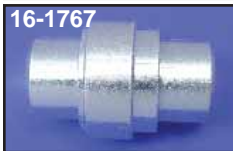


**Big Trans Stud Installer Tool** for 1936-86 4 and 5-Speed Softail.  
VT No. 16-0719



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

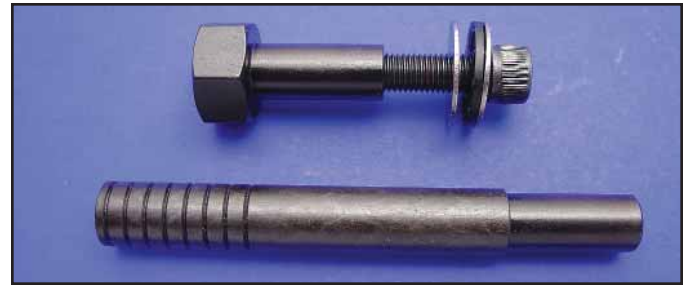
VT No.	Years	Fits
16-1798	1941-85	BT Main Drive Gear
16-1799	1936-84	BT-XL Kicker Shaft
16-0878	1936-57	BT Brake Cross Shaft
16-1801	1936-84	BT Clutch Release Shaft



## Transmission Tools For Sportster

VT No.	OEM	Year	Use
16-0028*	34810	84-90	Mainshaft bearing installer 2pc
16-1755	35820-86	86-90	Gear spacing checker
16-1756	37404-91	91-up	Countershaft support plate
16-0139	95560-57	57-84	Door puller
16-1767	37842	91-up	5-Speed bearing installer

\*Note: Uses 16-0065 driver



**Shifter Shaft Sleeve Tool** use to remove and install the shifter shaft sleeve in all 5 and 6-speeds. This tool may be used to remove or install replacement, or upgrade shifter sleeve, assembly and drum. Use to upgrade to latest shifter assembly for 5-speeds, 1980-99 Big Twins, and 1980-2000 FLHT, FXR-FXD. Use to replace shifter sleeve for 5-speeds 2000-up FLHT & FXD

VT No.	Item	Year	Model
16-1664	Tool	All	All
10-2489	Bushing	1982-84	FXR
10-2488	Bushing	1985-up	FXR-FXD
10-2529	Bushing	1985-99	FLT
10-8752	Bushing	2000-up	FLT



## Sprocket Nut Tool



**Bushing Tools** remove and replace main drive gear (4th gear) bushings 1936-84 4-speeds and kicker cover bushings for 1936-85 4-speed models.

VT No.	Item
16-0117	Main Drive Gear
16-0128	Main Drive Gear, Jims
16-1732	Kicker Cover



**Countershaft Sprocket Lock Nut Wrench** features an extra long two piece design inner collar which will retain wrench to nut. Fits 1936-up Big Twins, 1 7/8" hex, 4 and 5 speed models.

VT No.	OEM	Brand
16-0821	94660-37A	V-Twin
16-0757	94660-37A	Jims 1/2" Drive



**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



**Big Twin Countershaft Sprocket Nut Tool** is a factory style forged tools. Includes handle.

VT No.	Models	Use
16-0114	1937-84 4-Speed BT 4th Gear	Sprocket Nut
16-0901	All	Handle for above
16-0823	1941-73 45	



# Bushing-Race Pullers



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



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



**Fork Bushing & 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



**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



16-0117



16-0105



16-0711



16-0126



16-0965

## Needle Bearing Bushing Race Press Tools.

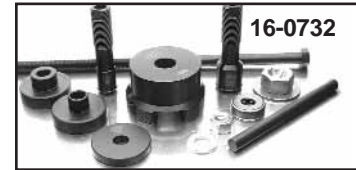
VT No.	OEM	Fits	Item	Use
16-0117	31735	1936-84 BT	Bushing	Md gear
16-0057	34733	1977-84 BT	Needle	Countershaft
16-0965	97080-77A	1977-E81 XL	Race	Pinion
16-0126	97272-60	1958-up BT	Needle	Cam
16-0127	97273-60	1957-up XL	Needle	Cam
16-0711	Cover	1970-up BT	Bushing	Cam
16-0105	33428A	1979-84 BT	Needle	Mainshaft 4sp
16-0036	34734	1979-up BT	Bearing	Mainshaft 5sp
16-0028	34810	1984-90 XL	Bearing	Mainshaft
16-1732	—	1936-84 BT	Bushing	Kicker Cover
16-0055	34190	83-up FXR	Fork Bushing & Seal	
16-0056	34634	84-up FLT FXWG-FXST	Fork Bushing & Seal	
16-0964	36583	87-up FXR 1988-up XL	Fork Bushing & Seal	



16-0425



16-0065

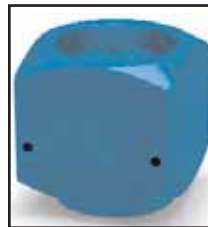


16-0732

**Driver Handle.** Replaces 33416 to drive wheel race, crank bearing race and cam needle installers.

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

VT No.	Item	Year
16-0425	Puller	1973-99
16-0065	Driver	1973-99
16-0732	Puller	2000-up



## 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



## 25 mm Wheel Bearing Puller Tool

removes new front 25 mm wheel bearings found on most of the 2007 ST models with 25 mm front wheels bearings. Note: this tool must be used with the current Jims wheel bearing/remover tool.

VT No. 16-1370



**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 & Seal Driver** includes driver handle and 6 machined aluminum collets to fit most bearings.

VT No. 16-0505



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

VT No. 16-0638



**Cross Arm Puller** is 1" square bar 43/4" long slotted, with 3/8" x 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



**Mainshaft Starter Clutch Gear Puller** for 1936-84 4 Speed model.

VT No.	Brand
16-0712	V-Twin
16-0740	Jims





# Primary



**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**



**Primary Drive Aligning Fixture** will align teeth on clutch shell with motor sprocket. Fits Ev.  
**VT No. 16-0203**



**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**



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



**Primary Plug Wrenches** for Sportster models.

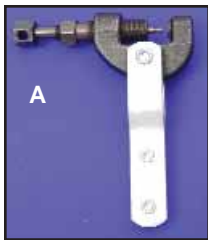
VT No.	OEM	Years
16-0158		1971-84
16-0985*	33186	1971-up
8862-1	Evo	1986-up

\*Note: Uses 3/8 socket handle



**1971-85 XL Clutch Adjust Tool.**  
**VT No. 16-0123**

# Chain



**Chain Riveting Tool and Chain Breaker.**

VT No.	#	Item
16-1740	A	Breaker
16-1741	B	Riveting Tool Set
16-0201	B	Riveting Tool Set (V-Twin)



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



**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**



**Diamond Chain Breaker** is excellent for cutting 530 heavy chain.

VT No.	Item
16-0255	Breaker Complete
16-0950	Replacement Tip



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



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



**Wheel Bearing Wrench** removes the slotted lock nut on spoke wheels.

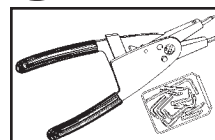
Sportster and 1967-72 Big Twins. Replaces 94630-67.

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

# Snap Ring Pliers



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



**Internal/External Retaining Ring Pliers** will remove and install the main drive gear bearing retaining rings for 1980 and later 5-speeds. Included are six pairs of color coded steel tips in sizes .090, .108 and .120 bent 15° and 90° with hex wrench in plastic pouch. External ring size range is 1 1/2"-4", internal ring size is 1 13/16"-4".

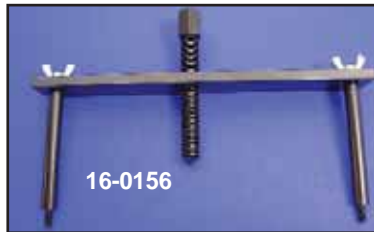
**VT No. 16-0689**



# Clutch Tools



16-0967



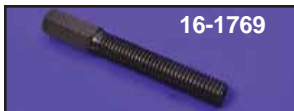
16-0156



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.



16-1805



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



16-1514

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

VT No. 16-1514



16-0113



16-0115



16-0179



16-0961



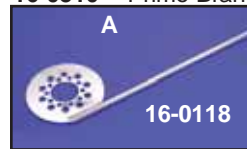
16-0310



16-0176

**Clutch Hub Pullers.** 16-0113 Pointed type pulls clutch hubs on 74 & 45, motor sprockets on 74 & XL trans sprocket on XL, also rotor assembly. on 74-80 BT, 1970 & 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
16-0113	1941-84	Point
16-0115	1941-84	Swivel
16-0176	1941-84	Point
16-0179	As Above with stencil	
16-0961	1984-up Wet Clutch Type	
16-0310	Primo Brand Pro Clutch BT	

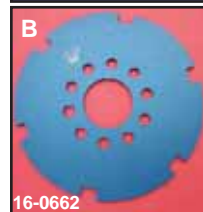


A

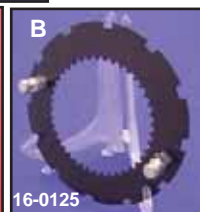
16-0118



C



16-0662



16-0125



D



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
16-1773	E	1990-up	Big Twin
16-1776	E	1984-89	XL
16-0125	B	1952-70	XL
16-0159	D	1956-84	XL
16-0992	C	1971-84	XL

## 4-Speed Big Twin



A



B

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

VT No.	Jim	#	Years
16-0121	16-0641	A	1939-78
16-0120	16-0642	B	1979-84



**Clutch Hub Stud & Pin Tool.** Hold tool in vise, insert new stud, place clutch hub over pin, then peen over pin.

VT No. 16-0145



**Mainshaft Ball Bearing Lock Nut Wrench**

replaces 94635-41A. Fits 1940-up Big Twin models. Handle is not included.

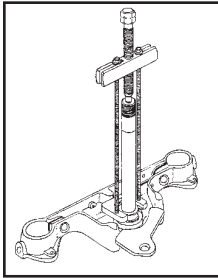
VT No. 16-0116



**Clutch Hub Removal Tool** acts upon impact as striking tool to free hubs frozen on 1936-84 4-Speed Mainshafts.

VT No. 16-0656





**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.

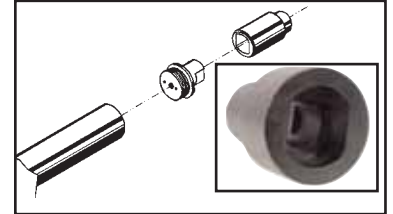
**VT No. 16-0073**



**FXSTS Fork Stem Bearing End Play Setup Wrench. Offset Handle** allows for proper clearance of fuel tank and other accessories.

**VT No. 16-0444**

# Fork



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

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



**Fork Bearing Installer Tool** fits over 1" stem allowing bearing to be "driven" on.

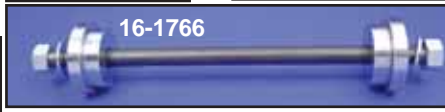
**VT No. 16-0724**



16-1768



16-0895



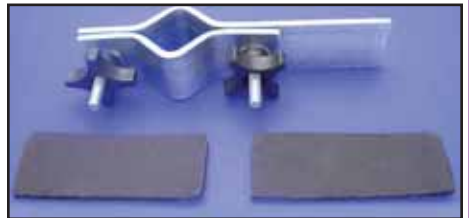
16-1766



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	A	Remover
16-1766	B	Installer
16-0065	C	Driver Handle for A
16-0895	D	Driver Handle Adapter, 1992-up FLT-FXD



**Fork Leg Holding Tool** holds for prevent fork tube from turning when removing top nuts.

**VT No. 16-0898**



**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**

**Socket Wrench** is designed for easy removal and installation of 1 3/8 Hex Colony custom dome style fork tube plugs. Will also fit stock and Colony Knucklehead rocker arm shaft nuts (7110-8). Installed O-Ring eliminates damage to top of plug. Black oxide.

**VT No. 2319-1**



**Fork Tube Spring Retainers and Pin Wrench Kit** includes 2 retainers for 1952-72 XL and pin wrench for installation removal of retainers.

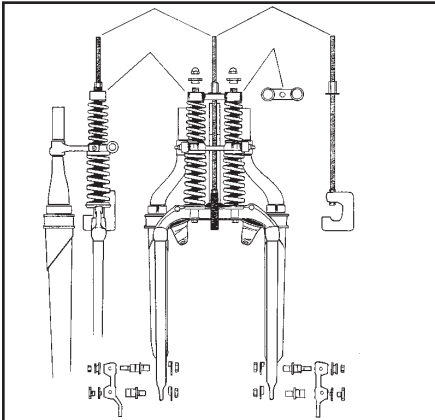
VT No.	Item
7700-3	Kit
7701-2	Retainers only, pair



**Spring Fork Rocker Bushing Remover-Installer**

**Tool** will replace stock steel bushings on 1930-57 Spring Forks.

**VT No. 7611-2**



**VT No. 16-1003 Shown**

**Spring Fork Assembly Clamp** facilitates building of stock type forks by compressing upper & lower spring.

VT No.	Years
16-1003	1936-57
16-0739	1988-up



**Fork Pre-Load Assembly Tool** allows pre-load to be set on 41mm forks during assembly.

**VT No. 16-0745**



16-0573



16-1009

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

VT No.	Type
16-0573	Trock
16-1009	Jims



**1936-48 Big Twin Cone Nut Wrench** features pins to turn cog style cone nut 3/8" drive.

**VT No. 16-0178**

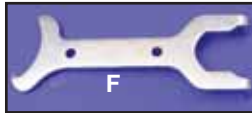


# Suspension



**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 94448-82	1979-up Sportster 1979-up FXR-FLT
16-0408	A	94408-78 94444-82	1982-up FL-FLH 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



**Shock Tool** allows disassembly and assembly of shocks on Softail models.  
**VT No. 16-5506** 1986-up



**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. 16-0079** Tool  
**16-1847** Bolt for Above



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



**Shock Change Tool** holds swing arm in position during shock change.  
**VT No. 16-0076**



**Swing Arm Bearing Installer Tool** will install both right and left swing arm bearings squarely on their bores to the installed depth on 2002-up FLT models. Replaces 45327.  
**VT No. 16-1058**



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



**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



**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**



**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 3/8" drill. Available for Master Cylinder Bore.

VT No.	Use
16-0640	Rotor
16-0785	5/8" Master Cylinder
16-0786	11/16" Master Cylinder
16-0787	3/4" Master Cylinder



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



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



**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



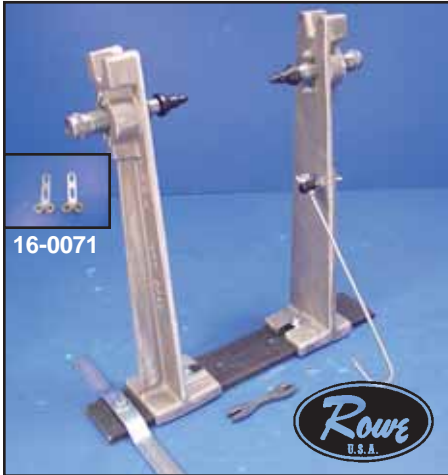
**Brake Cylinder Hone.**  
**16-0613** Brake Cylinder Hone 3/4" to 3"  
**16-0614** Set of Stones for 3183 Hone





**Bead Breaker** will depress bead on mag or spoked wheels.  
**VT No. 16-0570**

## Wheel Truing Stands



16-0071

**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
16-0498	Wheel Truing Stand
16-0071	Roller Stanchions
37-8928	Wheel Weight Kit



**Professional Wheel Truing Stand** includes roller stantions to facilitate flywheels or crank shafts.

**VT No. 16-0799**



**Brake Drum Turning Arbor** for all 5-bolt Big Twin brake drums. Replaces 97280-60A.

**VT No. 16-0122**



The **280 Balancer** has a specially designed balancing shaft, plus a large, easy to read optical balance indicator that allows for fast and simple wheel attachment.

**VT No. 16-0511**



**Wheel Balance Stand** includes 3/4" & 1" shafts.

**VT No. 16-1525**

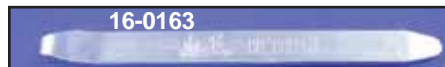


**Motion Pro Bead Popper** designed to break the bead on all types of motorcycle tires. Made of durable high impact plastic that will not scratch the wheel.

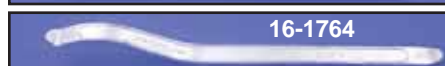
**VT No. 16-0542**



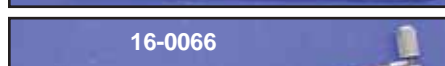
16-0939



16-0163



16-1764



16-0066

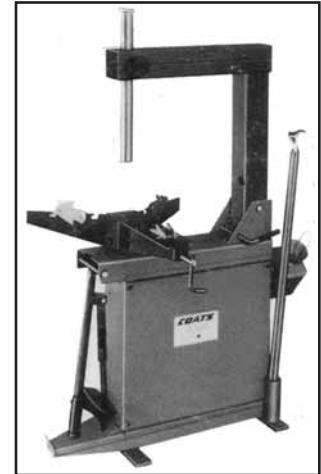


16-0957

**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
16-0939	15½" Forged Iron
16-0163	8½" Forged Iron
16-1764	15" Forged Iron
16-0973	240 mm
16-0066	Valve Fisher
16-0957	Breezer Flat Iron
16-0167	Breezer Tool

## Tire Changers



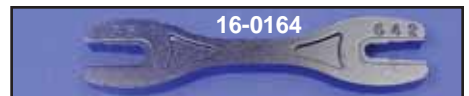
The **220 Cycler** is a simple to operate manual changer designed to handle motorcycle wheels, including the new custom alloy wheels and tubeless tires, easier and faster. Shipped by UPS.

VT No.	Item
16-0510	Tire Changer
16-0938*	Plastic Iron Ends

\*Note: Replacements for tire bar included with cycle changer.



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



16-0164



16-0200

**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



**Spoon Style Tire Iron.** 10 1/2" long.  
**VT No. 16-0694**



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

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

**FLT Wheel Lug Wrench** is a 3/8" hex key shaft which fits all 1982-up FLT models. Sold each.

**VT No. 16-0996**



# Lubrication



Works Best!

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



**E-Z Squeeze Bearing Packer.** Patented design greases all tapered bearings with a 5/8" or larger I.D. Canister holds grease for clean operation.  
**VT No. 16-0755**



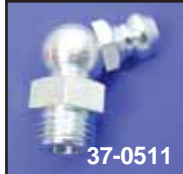
**Lincoln Grease Gun.** Small type as early units.  
**VT No. 16-0548**



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



**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**



**Grease Fittings.** Special thread.

VT No.	Year	Type	U/M
8770-6	1909-38	Nickel	6 pk
49-0595	1909-38	Nickel	10 pk
44-0533	1938-up	Zinc	10 pk
9864-6	1938-up	Cadmium	6 pk
9897-6	1938-up	Chrome	6 pk
44-0558	1938-up	Nickel	10 pk
37-8856	1979-84	Zinc	10 pk
37-0511	1938-up	67.5°, Zinc	5 pk
37-0521	1938-up	90°, Zinc	5 pk



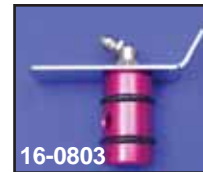
**Flat Top Alemite Grease Fitting Adapter** is designed to be used on alemite grease fitting, 0340. Tapped 1/8" NPT to use with standard grease gun.  
**VT No. 9929-1**



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



**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.  
**VT No. 16-0838**



**Wheel Bearing Greaser.** Fitting & spigot greases 1973-99 tapered bearings without removing seals, use existing seal spacer or purchase separately.  
**VT No. 16-0803**

**Item**  
**16-0803** Tool  
**44-0303** Collar



**Cable Oiler** directs lubricant into the cable core.  
**VT No. 16-0686**

# Belt



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

VT No.	Type
16-0649	BT
16-0588	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**



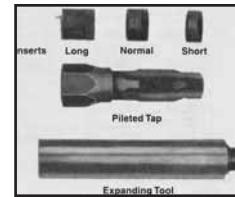


### Heli-Coil Kits & Replacements

Kits For HD	Thread Size	Length	Repair Kit	Inserts Per Kit	Inserts Only	Insert Qty.	Drill Size
Spark Plugs	18mm	.500	<b>16-0906</b>	24	<b>16-0907</b>	6	23/32
Pan D Rings	10-24	.285	<b>16-0918</b>	12	<b>16-0919</b>	12	13/64
Front/Rear Brake Drum Threads	3/8-20	.375	<b>16-0921</b>	6	<b>16-0931</b>	6	25/64
Head Bolt Threads	7/16-16	.656	<b>16-0922</b>	6	<b>16-0932</b>	6	29/64
XL Engine/Trans Drain Plug, Early	1/2-13	.375	<b>16-0923</b>	6	<b>16-0933</b>	6	17/32
Drain PI BT Chain case, XL Trans	1/2-20	.375	<b>16-0924</b>	6	<b>16-0934</b>	6	33/64
Timing Plug	5/8-18	.325	<b>16-0925</b>	6	<b>16-0935</b>	6	41/64
Case Bolt & Gen.	5/16-24	.469	<b>16-0926</b>	12	<b>16-0936</b>	12	21/64
BT Trans Cover w/Locking Insert	5/16-18	.469	<b>16-0927</b>	12	<b>16-0937</b>	12	21/64
Cam cover screw, tappet guide, oil pump stud and timer, and mounting threads							
	1/4-24	.500	<b>16-0920</b>	12	<b>16-0930</b>	12	17/64
	1/4-20	.375	<b>16-0941</b>	12	<b>16-0944</b>	12	17/64
	3/8-16	.562	<b>16-0942</b>	12	<b>16-0945</b>	12	25/64
	3/8-24	.562	<b>16-0943</b>	12	<b>16-0946</b>	12	25/64

### Heilcoil 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 Spark Plug Inserts** replace stock inserts in 1966-up Shovelhead heads.

VT No.	OEM	Type/Year
<b>16-0043</b>	16725-66A	Short, 1966-74
<b>32-0050</b>	16725-75	Long, 1975-up



**18mm Adapter Set** allows 14mm plugs to be used in earlier heads with 18mm spark plug threads.

VT No. **32-0057**

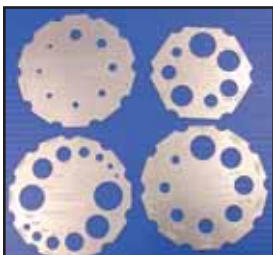


### Spark Plug Hole Service.

Motorshop will Heli-Coil 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
<b>60-0168</b>	Heli-Coil
<b>60-0170</b>	Weld/Heli-Coil



### Universal Thread Gauge Set

identifies USS, Metric, Pipe size and Spark Plug size, 4 piece set.

VT No. **16-1763**



**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.	Item
<b>16-0044</b>	Kit, Complete
<b>16-0043</b>	17/32" Insert, each
<b>16-0042</b>	3/4" Insert, each



### Special Taps & Dies.

VT No.	Thread	Use
<b>16-0807</b>	3/8" x 20	1930-up Brake Drum
<b>16-0809</b>	5/16" x 32	Grease Fitting, 9851
<b>16-0416</b>	7/16" x 16	UL-VL-45 Head Bolt
<b>16-0014</b>	1/4" x 24	Timing and Transtop
<b>16-0407</b>	1/4" x 24	Die
<b>16-0904</b>	13/16" x 24	1931-35 H Bars
<b>16-0905</b>	7/8" x 24	1936-48 H Bars
<b>16-0913</b>	5 7/64" x 24	1910-21, 1937-48 H Bars
<b>16-0865</b>	9/32" x 32	Bendix Adj. Jet
<b>2282-1</b>	11/16"	Timing Hole

**Rethreader Die Sets.** Hex shape die set lets you use common socket set for a holder.

**Old Forge Deluxe Kit pictured**

VT No.	Type
<b>16-0625</b>	Fine Set, Hex only, 7 piece
<b>16-0802</b>	Coarse Set, Hex only, 7 piece



**16-0836**

**Dies** are round type adjustable to restore damaged or mistreated threads.

VT No.	Type/Use
<b>16-0836</b>	1936-84 Big Twin 1" x 24T FL-FLH Fork Stem
<b>16-0801</b>	1971-84 FX-FXE, 54-85 XL 7/8" x 24T Fork Stem
<b>16-0811</b>	1936-84 Big Twin Mainshaft 3/4" x 18 Left



**Fork Stem Die Holder.** Order die separately. VT No. **16-1011**



# Hand Tool



**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 & Brake Brass Rivets.**

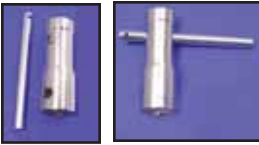
VT No.	OEM	Type	Use
37-8805	—	Short 4-41/2	Brake
37-8806	41871-31	Long 4-5	Brake
37-8807*	8226	Short 7-4	Clutch
37-8808	8232	Long 7-5	Clutch
23-0522	8475	1974-76F	Brake

\*Note: For clutch hub friction disc.



**Hand Held Impact Driver** is a very efficient tool for those hard to loosen screws. Complete set includes main body, adapter, 2 screw bits and 2 phillips bits.

VT No. 16-0151



**Standard Spark Plug Wrench** 14mm type with bar handle fits under FL tanks.

VT No. 16-0825



**Spotlamp Holder** assists in assembly procedure in conjunction with signal lamp.

VT No. 16-0515



**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



**Riveting Tool** installs rivets in saddlebag top and other fiberglass items. Replaces 39787-A

VT No. 16-0896



**Swivel Spark Plug Wrench** features patented design for all 12 & 14mm plugs. 180° rotation.

VT No. 16-0824



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

VT No. 16-0709



**Magnetic Parts Tray** features a steel construction with rubberized magnetic surface, so small parts can be arranged in order. Holds up to 8 ounces.

VT No. 16-0969



**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" dia. 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



**Punch Holder.**

VT No. 16-0005



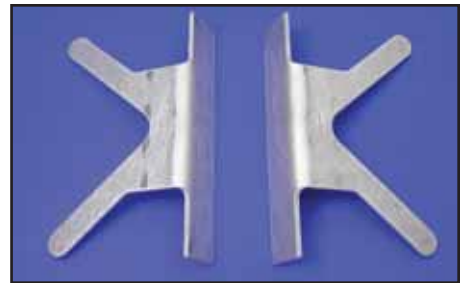
**Piercing Punch.** Heavy 7 1/4" long, use as drift, punch or scribe.

VT No. 16-0968



**Spark Plug Socket Set** features 3/8" drive to fit 12 and 14mm plugs.

VT No. 16-0202



**Vise Jaw Pads** available in aluminum.

VT No. 16-0420



**Gasket Removal Brush Tool** is 2" in diameter and can be used for cleaning, deburring and resurfacing. Excellent for removal of silicone glue and paper gasket material from gasket surface.

VT No. 16-0794





# Bushings

<b>10-0719</b>	—	54-79 XL Kick Starter Shaft w/Seal
<b>10-2493</b>	33101-32	Kick Starter Shaft 45 Side Valve
<b>10-2494</b>	33213-30	Kicker Pedal All Twins
<b>10-0720</b>	33288-37	41-69 BT Kick Start Shaft with Seal
<b>10-0721</b>	33438-50	50-85 BT Mainshaft Starter Gear 4-Speed w/Stock Gear
<b>10-2486</b>	—	As above .005 O/S for Aftrmrkt Gear
<b>10-0722</b>	33442-57A	57-72 XL Starter Ratchet Gear
<b>10-0723</b>	33442-73	73-79 XL Starter Ratchet Gear
<b>10-8527</b>	33445-89	89-93 BT Prim Housing Starter Shaft
<b>10-8528</b>	33446-89	89-93 BT Prim Housing Starter Shaft
<b>10-2502</b>	33638-52	52-69 FL-FLH Foot Shift Bracket
<b>10-2511</b>	33638-70	70-85 FL-FLH All FXWG-FXST Foot Shift Bracket
<b>10-8529</b>	33713-85	87-up FLT Prim Housing Shifter Shaft
<b>10-0724</b>	34037-52	54-74 XL Shifter Shaft Shifter
<b>10-2483</b>	34037-75	77-81 XL Shift Pedal Shaft
<b>10-2518</b>	34427-38	(Small) Shifter Shaft 45 Side Valve
<b>10-0732</b>	34430-36	37-76 BT Hand Shift Shifter Shaft
<b>10-2514</b>	34432-38	(Large) Shifter Shaft 45 Side Valve
<b>10-0725</b>	34435-52	41-79 Big Twin Shifter Shaft
<b>10-0726</b>	34498-52	52-79 Big Twin Pawl Carrier
<b>10-2488</b>	34632-84B	84-up FXR All Shifter Shaft
<b>10-0748</b>	34898-79	78 only, All XL Brake Pivot Shaft
<b>10-0727</b>	35094-65	65-85 4-Spd BT Mainshaft Drive Gear
<b>10-2487</b>	—	As above for Andrews Gear only
<b>10-2515</b>	35316-41	Low Gear 45 Side Valve
<b>10-2517</b>	35320-41	Second Gear 45 Side Valve
<b>10-0728</b>	35322-38	38-58 BT Mainshaft Third Gear
<b>10-2516</b>	35787-52	54-72 All XL's Countershaft 1st Gear
<b>10-0752</b>	35787-72	73-84 XL Countershaft 1st Gear
<b>10-0729</b>	35789-36	41-85 BT 4-Spd Cntrshft Low Gear
<b>10-0730</b>	35791-36	41-85 BT 4-Spd Cntrshft 2nd Gear
<b>10-2547</b>	36035-26	29-73 45" Countershaft Left
<b>10-2490</b>	36042-41	41-73 45" Countershaft Side Cover
<b>17-9830</b>	37436-36	36-84 Big Twin 4-Speed Mainshaft Clutch Pushrod, 5 pk
<b>10-0753</b>	37458 41	Clutch Gear 45 Side Valve
<b>10-0751</b>	37458-52	52-85 All XL Models Clutch Gear
<b>10-0733</b>	40520-63	77-up XL Shifter Shaft In Right Crankcase 66-up XL Shifter Shaft In Chain Cover
<b>10-0740</b>	41685-37	37-57 BT Brake Backing Plate Cam
<b>10-2496</b>	—	Same as above .015 O/S
<b>10-1256</b>	42443-80	80-up XL Brake Pedal All
<b>10-2497</b>	47094-58	58-84 BT Seat Post
<b>8859-1</b>	47581-29	29-73 45's Seat Post
<b>7708-1</b>	47583-36	36-57 BT Seat Post
<b>10-0741</b>	47755-31	37-57 BT Brake Crossover Shaft
<b>10-2505</b>	47757-52	75-78 XL Shifter Cross Shaft
		52-78 XL Brake Cross Shaft
<b>10-2500</b>	51925-37	37-64 BT Seat Tee
<b>10-2501</b>	51925-65	65-80 BT Seat Tee
<b>10-0743</b>	60593-74	74-85 FX 4-Spd Inner Primary Shifter
<b>10-2489</b>	60629-82	82-83 Shifter Shaft

<b>VT No.</b>	<b>OEM</b>	<b>Item</b>
<b>10-2498</b>	413-30	30-36 74" 80" Right Case
<b>10 2519</b>	416-30	30-36 74" 80" Left Case
<b>10-8524</b>	662-29	30-36 BT & 45 Timer Shaft
<b>10-8525</b>	662-30	30-36 BT & 45 Cam Gear Shaft
<b>10-8526</b>	662-34VL	34-36 BT & 45 Oiler Drive Shaft
<b>10-0700</b>	17428-57	66-up BT 57-up XL Rocker Arm 10 pk
<b>10-0760</b>	24331-36	57-up XL 29-73 45" Std Pstn Pin, pr
<b>10-0761</b>	—	As above .002 O/S
<b>10-0762</b>	—	As above .005 O/S
<b>10-0763</b>	24332-36	As above .010 O/S
<b>10-0756</b>	24334-36	36-99 BT Std Piston Pin, pr
<b>10-0757</b>	—	As above .002 O/S
<b>10-0758</b>	—	As above .005 O/S
<b>10-0759</b>	24335-36	As above .010 O/S
<b>10-0703</b>	24641-36	36-99 BT Oil Pump Shaft
<b>10-0704</b>	25581-36	41-69 BT Crnkse Cover Gear Std
<b>10-2524</b>	—	Same as above .005 O/S
<b>10-0705</b>	25581-70	70-99 BT Crnkse Cover Gear Std
<b>10-2525</b>	—	Same as above .005 O/S
<b>10-0706</b>	25582-36	41-54 BT Cover Pinion Shaft Std
<b>10-2526</b>	—	Same as above .005 O/S
<b>10-0707</b>	25582-54	54-72 BT Gear Cvr Pinion Shft Std
<b>10-0708</b>	25582-73	73-92 BT Gear Cover Pinion Shaft
<b>10-2529</b>	—	As above .005 O/S
<b>10-8536</b>	25582-93	93-up BT Gear Cvr Pinion Shaft Std
<b>10-8556</b>	—	As above .005 O/S
<b>10-0709</b>	25586-37	57-up XL Cam Gear #1, 3, 4 Cams Cam Cover Front In L Ex Cam 74/80 Side Valve, Front Ex Cam 45
<b>10-2540</b>	—	As above, .005 O/S
<b>10-0731</b>	25588-37	45" 74" 80" Cam Cvr R. In Cam SV
<b>10-0710</b>	25588-57	57-90 XL Cam Gear #2 Cam Std
<b>10-2541</b>	—	As above .005 O/S
<b>10-0711</b>	—	57-90 XL Gear Kit #1-2-3-4 Std
<b>10-8538</b>	25588-91	91-up XL Gear #2 Cam Std
<b>10-2507</b>	25590-37	45" 74" 80" Cam Cover Rear EX Cam
<b>10-2512</b>	25591-37	74" 80" Pinion Shaft Side Valve Std
<b>10-2503</b>	25593-37	Pinion Shaft 45 Side Valve Std
<b>10-2543</b>	—	As above .005 O/S
<b>10-0712</b>	25593-57	57-76 XL Cam Cover Pinion Std
<b>10-2544</b>	—	As above .005 O/S
<b>10-0713</b>	25593-74	77-up XL Cover Pinion Std
<b>10-2545</b>	—	As above .005 O/S
<b>10-8268</b>	25594-75	77-81 XL Brk Pedal Operating Shaft
<b>10-2506</b>	25595-37	Cover Front In Cam 45 Side Valve
<b>10-8271</b>	25595-52	52-56 K Exhaust Cam
<b>10-0714</b>	25597-36	36-54 BT Crankcase Cam Gear Std
<b>10-2527</b>	—	As above .005 O/S
<b>10-0715</b>	25597-57	57-E84 XL Idler Gear Std
<b>10-2546</b>	—	As above .005 O/S
<b>10-2552</b>	25598-91	1991-up XL Inner Cam
<b>10-2504</b>	25599-37	74" 80" SideValve Crnkcs Cam Shaft
<b>10-2495</b>	25601-37A	45 Side Valve Crnkcs Cam Shft Bush
<b>10-0716</b>	25785-30A	41-69 BT Idler & Circuit Breaker Gear
<b>10-0749</b>	26431-76	77-90 XL Oil Pump Cover
<b>10-0750</b>	26489-75	77-90 XL Oil Pump Body
<b>10-0742</b>	27290-24	Linkert Throttle Shaft, pr
<b>10-0717</b>	32525-36A	36-39 BT Circuit Breaker Housing
		56-69 XL Magneto Housing
<b>10-0718</b>	33099-52A	54-79 XL Kick Starter Shaft



# Gaskets

## COPPER HEAD GASKETS

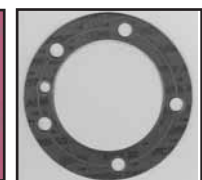
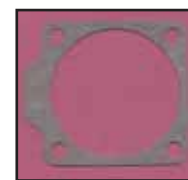
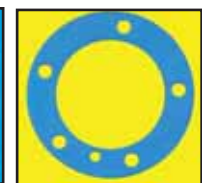
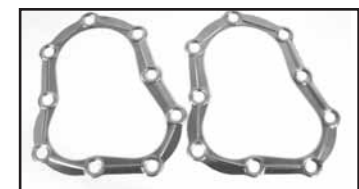
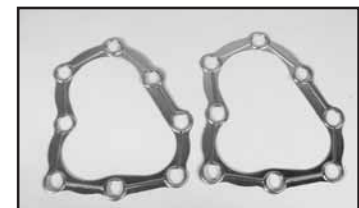
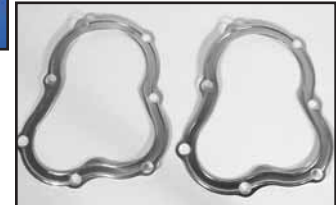
GB No.	James	OEM	Fits
15-0739	—	11-30	1930-35 74" ,VL
15-0185	15-1084	16768-36	1939-73 45"
15-0228	15-1251	16769-36	1936-48 74" & 80" Side Valve
15-0268	—	16770-36	1936-47 Knucklehead
15-1104	—	—	883-1200 XL, .010

## CYLINDER HEAD GASKETS

15-0574	—	469-15	Knuckle Rocker Shaft
15-0234	—	16768-39	1939-73 45
15-0370	15-1131	16770-36	1936-47 Knucklehead, Teflon
15-0337	—	16765-53	165cc
15-0103	15-1008	16770-48	1948-65 Teflon
15-0269	—	—	As Above Stock Type
15-1241	—	—	1948-65 Copper
15-0273	15-1011	16770-66	1966-84 Head Fire Ring
15-0104	15-1010	—	1966-84 Head Teflon
15-0266	15-0977	—	As Above Stock Type
15-1242	—	—	1966-84 Copper
—	15-0599	Set	1966-84 3 5/8" Big Bore Teflon
15-0366	—	16773-85	1984-99 80" Evolution Head, Blue Teflon (.062")
—	15-1082	—	As Above Graphite with Fire Ring
—	15-1132	—	As Above (.030") Teflon
15-1524	—	—	EV 85" .040 Set
—	15-1083	16773-85T	1984-99 80" Evolution Head, Teflon Coated (.045")
15-0643	—	—	As Above Graphite Stock Type
15-0380	15-1219	—	As Above .045 Blue Teflon Fire Ring
15-1250	—	—	As Above Black Teflon Fire Ring
—	15-1196	16775-99	1999-2000 Twin Cam 88
15-0376	—	16787-99	1999-up Twin Cam 95" (1550 Cylinders)
—	15-1222	—	As Above with Armor Coating
15-0272	15-1009	—	1948-65 Panhead Fire-Ring
15-0257	—	—	86-2000 883 XL Fire Ring™
—	15-0970	16665-86	86-87 1100 XL Blue Teflon
15-0258	—	—	As Above Fire Ring™
15-0366	15-1082	16773-86B	88-2000 1200 XL Blue Teflon
15-0380	15-1083	—	As Above .045"
—	15-1132	—	As Above .030"
15-0643	—	—	As Above Graphite
—	15-1012	16769-57	1957-71 XL Teflon
15-0355	—	16769-57	1957-71 XL Copper
15-0101	15-0973	16769-72A	1972-E73 XL Copper
—	15-1130	16769-73T	1973-85 XL Teflon
15-0102	15-0974	16769-73	1973-85 XL Copper
15-0189	15-1015	16769-82	1973-85 1000 XL Copper (.045")

## CYLINDER BASE

15-0412	15-0271	16774-21	1921-36 SV BT and 1936-47 OHV
—	15-1227	—	1936-47 Base Gasket with metal
15-0235	15-0984	16774-86	C/D 1984-99 80" Evolution (front or rear)
15-0735	15-1072	16774-94	1984-99 80" Evolution Metal with Silicone (.017 thick)
15-0284	15-1133	16775-29	1929-73 45
15-0725	—	16775-52	K Base Gasket
15-0107	15-0986	16776-48	1948-62 Panhead (front)
15-0108	15-0987	16776-63	1963-84 Pan, Shovelhead (front)
15-0109	15-0988	16777-48	1948-62 Panhead (rear)
15-0110	15-0989	16777-48	1963-84 Panhead, Shovelhead (rear)
15-0222	15-0990	16777-63	1966-84 3 5/8 big bore Shovelhead, (front or rear)
15-0737	—	—	1966-84 Metal Base Gasket
15-1193	—	—	1955-65 Metal Base Gasket
15-0110	15-0989	16777-63	1963-84 Panhead, Shovelhead (rear)
15-0222	15-0990	—	1966-84 3 5/8 Big Bore Shovelhead, (front or rear)
—	15-1121	16777-86AC	1984-88 Big Twin with seal coating
15-0736	15-1101	16777-86S	1984-99 Evolution 3 5/8 Big Bore with silicone
—	15-1247	—	As Above Paper Type .020 Thick
15-0460	—	—	As Above for 3 3/4" Bore
—	15-1121	—	1986-up XL Evo



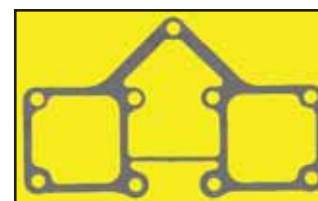


# Gaskets



## ROCKER COVER

GB No.	James	OEM	Fits
15-0221	14-0673	6114	1984-99 80 Evolution Top Rocker Cover Washer, Copper
—	15-1194	16719-99	1999-2000 Twin Cam 88 Rocker Housing, Coated Metal
15-0259	15-0706	16778-84A	1984-99 Evolution Lower Right with Silicone
—	15-0749	16778-97X	1984-99 Evolution Lower Right Steel
—	15-0750	16779-97X	1984-99 Evolution Lower Left Steel
15-0251	15-0707	16779-84A	1984-99 Evolution Lower Left with Silicone
15-1229	15-1245	16800-99X	1984-99 Evolution Lower Left and Right Metal with Rubber Coating
—	15-1252	16779-84X	As Above Paper with Silicone Beading
15-0252	15-0995	17355-84	1984-91 80" Evolution Lower Cork
15-0651	15-0996	17355-84A	1984-91 80" Evolution Lower Rubber
15-0652	15-0999	17356-84A	1984-91 80" Evolution Upper Rubber
14-0945	15-0997	17355-92	1992-99 80" Evolution Lower Rubber
14-0946	15-1000	17356-92	1992-99 80" Evolution Upper Rubber
15-0253	15-0998	17356-84	1984-91 80" Evolution Upper Cork
15-0254	15-1001	17358-84	1984-91 80" Evolution Inner Cork
15-0653	15-1002	17358-84A	1984-99 80" Evolution Center Rubber
—	15-1195	17386-99	1999-2000 Twin Cam 88 Rocker Cover, Coated Metal
15-0270	14-0620	17535-38	1938-47 Knucklehead Front Intake & Rear Exhaust
—	15-1004	17540-69A	1966-84 Shovelhead (.30 thickness)
15-0113	15-1136	17540-69	1966-84 Shovelhead without Silicone
15-1218	15-0705	17540-69X	1966-84 Shovelhead with Silicone
—	15-1213	17540-99X	1966-84 Shovelhead Metal with Silicone
—	15-1203	17591-99	1999-up Twin Cam 88 Breather Case
—	15-1204	17592-99	1999-up Twin Cam 88 Breather Baffle
11-0584	—	63815-99	1999-2000 Twin Cam Rocker Cover Breather Element
15-0663	—	63858-49	1984-98 Evolution Rocker Cover Bolt Washer
15-0112	15-1003	17536-70	1957-84 XL Rocker Cover
15-0640	—	Beaded	As Above
—	15-1134	17353-86	1986-up XL Lower Rubber
15-0260	15-0991	17353-86	1986-up XL Lower Cork
15-0261	15-0993	17354-86A	1986 XL Upper Cork
15-0386	15-1135	17354-86A	1986-90 XL Upper Rubber
15-0934	15-0992	17353-89	1989-up XL Lower Rubber
—	15-0994	17354-89	1991-up XL Upper Rubber



15-0113



11-0584

## CAM COVER

15-0334	15-0277	24921-37	1937-73 Flathead Cam Cover Breather
15-0300	15-1077	25225-36A	1936-40 Knucklehead
15-0122	15-0928	25225-36C	1941-69 Big Twin
15-0122	15-0928	25225-36C	1941-47 Knucklehead
15-0122	15-0928	25225-36B	1941-62 Big Twin
—	15-1267	25225-36X	As Above with Silicone Bead
15-0390	—	25225-36C	1963-69 Big Twin
—	15-0929	25225-70A	1970-92 Big Twin (white .030")
15-0123	15-1141	25225-70B	1970-92 Big Twin (black)
15-0741	15-0713	25225-70X	1970-92 Big Twin with Silicone
15-0692	15-0930	25225-93	1993-99 80" Evolution Big Twin, black
—	15-0722	25225-93X	1993-99 80" Evolution Big Twin with silicone
15-0879	15-0286	25226-37A	1937-73 45" Flathead
15-0407	15-0276	25227-37	1937-48 74" /80" Flathead
15-1501	15-1198	25244-99	1999-2000 Twin Cam 88 Cam Cover Gasket
15-0153	15-1031	32521-36	BT OHV Knuckle Circuit Breaker Base
15-0154	15-1031	32591-37	UL and 45 Circuit Breaker Base
15-0339	15-0214	24978-57	1957-81 Oil Strainer
15-0121	15-1078	25224-52A	1954-E81 XL Cam Cover
15-0124	15-0931	25263-81	1982-85 XL Cam Cover
15-0245	15-0932	25263-86	1986-90 XL Cam Cover
—	15-0933	25263-90A	2000-up XLCam Cover
15-0308	—	—	1991-up XL Cam Cover
15-0385	15-1223	25263-00	2000-up XLCam Cover w/Bead



15-0123



# Gaskets

## PUSHROD TUBE

14-0501	14-0904	11101	L1979-E81 Upper O-Ring
14-0905	—	11101X	L1979-81 Upper O-Ring (oversized)
14-0508	—	11118	L1979-81 Upper Quad Seal
14-0512	—	11132	L1979-2000 Middle O-Ring
14-0514	—	11133	L1979-E81 Lower O-Ring
14-0513	—	11133A	L1981-84 Lower Quad Seal
14-0550	—	11145	1984-2000 Lower O-Ring
14-0532	—	11157	1984-99 80" Evolution Upper O-Ring
14-0803	—	11293	1999-2000 Twin Cam 88 Upper O-Ring
15-0116	15-1137	17955-36	1936-E79 Small Cork
14-0028	—	—	As Above Silicone
15-0348	—	—	As Above Rubber
15-0117	15-1138	17955-48	1948-E79 Large Cork
14-0029	—	—	As Above Silicone
15-0349	—	—	As Above Rubber

## STARTER-GENERATOR

GB No.	James	OEM	Fits
15-0217	15-1143	25811-11	Generator stud washer for 1911-85 FL
15-0226	15-1021	30138-30	1937-48 Generator End Cover
15-0287	15-1022	30143-30	1930-57 Generator Mount Gasket
15-0150	15-1023	30143-58	1958-69 Generator Mounting
15-0410	—	31015-30	1930-64 Generator Bearing End
15-0655	15-1024	31320-80	1980-86 Belt Drive Starter Housing to Primary
15-0656	15-0966	31321-80	1980-86 Belt Drive Starter (between two housings)
15-0174	15-0916	60518-65	1965-86 Starter Hole Cover with Kicker only
15-0290	15-1064	60559-80	1980-85 Chain Drive Starter Housing Oil Deflector Plate
15-0181	15-0917	60645-65	L1965-88 Solenoid

## OIL PUMP

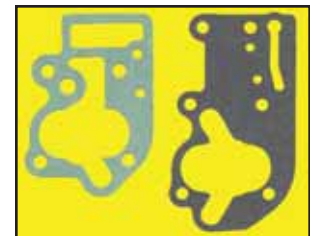
15-0306	—	24990-52	1952-57 Tappet Oil Screen Plug
15-0310	—	24994-52	1952-92 Tappet Oil Screen Plug
15-0299	15-0935	26231-78	1954-80 Oil Pump Cap Washer Blue Teflon
15-0333	15-0275	26244-37	1937-59 W/WLA Body to Motor
15-0727	—	26245-41	1941-67 FL Oil Pump Body to Case (Mylar)
—	15-0126	26245-41	As Above Paper
15-0338	15-0274	26246-37	Sidevalve Scavenger Pump Base
15-0294	15-0940	26246-68A	1968-80 Body to Motor, Mylar
—	15-0939	26246-68D	1968-E80 Body to Motor, Black Paper
15-0127	15-0128	26255-41	1941-E50 Cover (Governor Fitted), Black Paper
15-0740	15-0130	26257-41	1941-E50 Cover, Black Paper
15-0131	15-0944	26257-50A	L1950-67 Cover, Black Paper
15-0134	15-0948	26258-68	1968-E80 Cover, Black Paper
15-0293	15-0949	26258-68B	1968-E80 Cover, Mylar
15-0295	15-0953	26273-80A	L1980-91 Body to Motor, Mylar
15-0137	15-0952	26273-80B	L80-91 Body to Motor, Black Paper
15-0682	15-0954	26273-92	1992-99 80" Evolution Body to Motor, Black Paper
15-0138	15-0955	26276-80A	L1980-91 Cover, Black Paper
15-0296	15-0956	26276-80M	L1980-91 Pump Cover, Mylar
15-0683	15-0957	26276-92	1992-99 80" Evolution Cover, Black Paper

## TAPPET GUIDE

15-0281	—	18245-39	1939-48 Flathead Upper Guide Cover
15-0282	—	18257-39	1939-48 Flathead Lower Guide Cover
15-0283	—	18259-39	1936- 48 Tappet Block Fiber Washer
14-0170	14-0621	18260-29	1929-68 Flathead Valve Spring Cover Seal
15-0255	—	18630-26	1926-73 45" Flathead Spring Cover
15-0330	15-0278	18631-30	1930-73 Flatheads, Tappet Guide
15-0118	15-0925	18632-36	1936-47 OHV Tappet Guide
15-0119	15-0926	18633-48A	1948-99 Rear Tappet Guide
15-0120	15-0927	18634-48A	1948-99 Front Tappet Guide
15-1519	—	18634-48C	1948-99 Front Tappet Guide
15-1542	—	—	1948-99 Set
—	15-1197	18635-99	1999-2000 Twin Cam 88 Tappet Cover Gasket



15-0150



15-0127

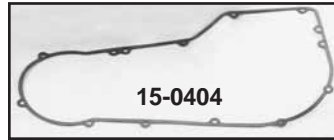
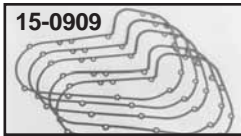


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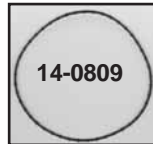


# Gaskets



## PRIMARY COVER GASKETS

GB No.	James	OEM	Fits/Type
—	15-1253	31434-06	2007-up Big Twin Inner Primary Mounting Bolt
15-0163	15-0909	34901-79	1980-93 FXR/FLT Primary Cover (.030")
15-0743	15-1115	34901-79A	1980-93 FXR/FLT Primary Cover (.062")
15-0239	15-0904	34901-85	1980-93 FXR/FLT Primary Cover (.062"), Beaded
15-0050	—	—	As Above Metal with Foam Rubber Coating
15-0967	15-0937	34901-94A	1994-2000 FXR/FLT Primary Cover
15-0051	—	—	As Above Metal with Foam Rubber Coating
15-1512	—	34901-07	2007-up FXST
15-0164	15-1080	34902-79A	1980-84 FXR/FLT Primary to Trans (large)
15-0165	15-1081	34903-79	1980-84 FXR/FLT Primary to Trans (small)
15-0229	—	60538-81	1982-88 Rigid Mount Primary Cover 1/16" thick 9 hole
15-0176	15-0906	—	As Above 1/32" thick
15-0401	15-0900	60538-81C	L1982-88 Rigid Mount 9 Hole Primary, Beaded
15-0645	—	60539-89	1989-93 Softail, Dyna Primary Cover (.062)
15-0677	15-0902	60539-89X	1989-93 Softail, Dyna Primary Cover, Beaded
15-0404	15-0921	60539-94	1994-06 Softail, Dyna Primary Cover Beaded
15-0052	—	—	As Above Metal with Foam Rubber Coating
15-0175	15-0905	60540-36	1936-64 Primary Cover, cork
15-0644	15-1128	60540-65	1965-80 FX/FL Primary Cover (8 hole)
15-0400	—	60540-65A	1965-82 4 Speed, 8 hole Primary Cover Beaded
15-1510	15-1254	60547-06	2006-up FXD Beaded, 2007-up FXST Primary Cover Beaded



## DERBY COVER GASKETS

15-1511	—	17369-06	2006-up FXD Derby
15-0125	15-0934	25416-70	1970-E84 Derby Cover (.030")
15-0882	—	25416-70B	1970-E84 with Bead
—	15-1142	25416-70C	1970-E84 Derby Cover (Cork, .030")
15-1249	—	25416-70C	1999-up Derby Beaded
15-1248	—	25416-70C	1970-98 Derby Beaded
—	15-1279	—	1970-98 Derby Molded Rubber
15-0765	15-0701	25416-70X	1970-E84 Derby Cover Gasket, Beaded
14-0535	—	25416-84	1985-98 Derby Cover O-Ring
14-0809	—	25416-99A	1999-up TC88 Derby Cover Seal
—	15-1224	—	As Above Gasket with Silicone
15-0883	—	25416-99B	1999-up with Bead Gasket
37-8868	15-1150	31433-84	1984-98 Derby Cover Bolt Washer, Nylon
37-8931	15-1151	31433-84A	1984 98 Primary Cover Bolt Washer w/Seal
15-0177	15-0919	60565-36	1936-64 Derby Cover, Cork



## INSPECTION COVER GASKETS

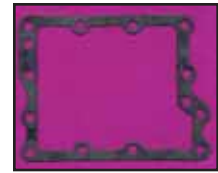
15-0167	15-0922	34906-79	1980-84 FXR/FLT Inspection Cover (.030")
—	15-0704	34906-79A	1980-84 FLT/FXR Inspection Cover (.062"), Beaded
15-0238	15-0702	34906-85	1986-up FLT/FXR Inspection Cover with Bead
—	15-1202	34906-85A	1986-up FLT/FXR Inspection Steel Core, 2 side bead, .045", Beaded
—	15-1278	—	As Above Metal with Molded Rubber
—	15-0916	60518-65	1965-69 Starter Plate
15-0178	15-0920	60567-36	1936-64 Primary Inspection Cover, Cork
—	15-0700	60567-65	1965-up 4 Speed, Dyna and Softail Inspection Cover (.062)
—	—	—	Beaded on Two Sides
15-0179	15-0915	60567-65C	1965-up 4 Speed, Dyna and Softail Inspection Cover (.032)
15-1217	15-0703	60567-90	1965-up 4 Speed, Dyna and Softail Inspection Cover (.062)
—	—	—	Beaded on One Side
—	15-0465	60567-90	1965-up 4 Speed Dyna & Softail Inspection Cover Metal w/rubber coating
15-0408	15-0180	60629-55	1955-64 Inner Primary to Crankcase
—	15-1161	63859-95	1994-up FXST/Dyna Inspection Cover Mounting Screw



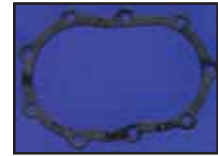
# Gaskets

## TRANSMISSION

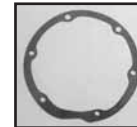
GB No.	James	OEM	Fits
14-0922	15-1129	6007	1980-up Transmission Drain Plug Nylon
—	15-1292	As Above	Rubber Bonded Washer
15-0411	—	2261-31	1930-36 VL Top Cover
15-0217	15-1143	25811-11	1952-85 Neutral Switch
—	15-1116	26072-90A	1991-98 Dyna Glide Oil Pan
—	15-1205	26072-90X	1991-98 Dyna Glide Oil Pan 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	L1979-86 4 Speed Side Shift 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-E79 Shifter Cover
15-0160	15-1037	34565-52	1952-E79 Shifter Adapter Plate to Transmission
15-0161	15-1038	34824-36	1936-E79 4 Speed Shifter Cover Ratchet Lid
15-0162	15-1039	34824-79	L1979-86 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 ST 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 Speedo Drive Unit
<b>1999-UP TRANSMISSION GASKETS FOR TC-88. JAMES BRAND UNLESS NOTED.</b>			
—	15-1129	6007	Nylon Drain Plugs
—	15-1116	26072-90A	1991-98 Dyna 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 BT Trans Top Cover
—	15-1118	34917-90A	1991-98 Dyna Trans Top Cover
—	15-1231	34917-90X	1991-987 FXD Trans Cover Gasket with Silicone Bead
—	15-1232	—	1999-06 FXD Trans Top Cover with Silicone Bead
—	15-1257	34917-06X	Trans Top Cover 06-up Dyna, 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 BT 5 Speed Bearing Gasket
—	15-1207	35652-79X	1979-06 5-Speed Bearing Housing Gasket with Silicone Bead
—	15-1259	35654-06-X	Bearing Housing 2006-up Dyna, 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 BT Clutch Release Cover with Silicone Bead
—	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 Trans Oil Washer
—	15-1275	63869-06	2006-up FXD Inner Chain Housing Shifter Shaft
<b>GLIDE/FLT</b>			
—	15-1118	34917-90A	1991-98 Dyna Glide Transmission Top Cover
—	15-1231	—	As Above with Silicone Bead
—	15-1232	34917-99	1999-05 Transmission Top Cover with Bead
15-0186	15-1047	35607-73	1973-77 FX, FXS Speedo Drive Block Off
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
—	15-1120	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 Speedo Drive Unit



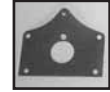
15-0161



15-0158



15-0159



15-0160



15-0157





# Gaskets

## GAS TANK/OIL TANK GASKETS

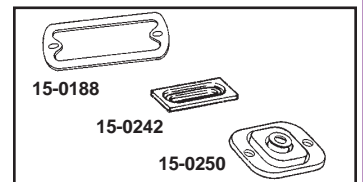
GB No.	James	OEM	Fits
14-0561	15-1065	61109-85	1983-up Gas Cap
—	15-1066	61111-77	1977-82 Gas Cap
15-0756	—	61114-36	1936-47 Gas Cap
—	15-1156	61114-48	1941-82 Gas Cap Thin
15-0183	15-1067	61116-65	1965-82 Gas Cap Left
15-0265	15-1068	62172-75	1975-up Fuel Valve
15-0676	15-1157	62270-32	1932-65 Fuel Strainer
15-0341	—	62617-52	1952-64 XL Oil Tank Cap
15-0192	—	62628-36	1936-62 Oil Tank Cap
15-0329	15-0200	62628-52	1952-65 XL Oil Tank Cap
15-0328	15-0201	62628-66	1966-82 BT, 1966-79 XL Oil Tank Cap
—	15-1159	63809-48	1948-64 Oil Filter Cap
—	15-1160	63848-48	1948-64 Oil Filter Cap Retainer



15-0756

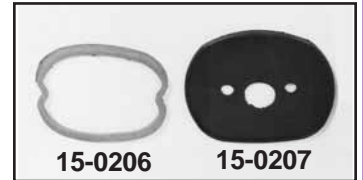
## MASTER CYLINDER & RESERVOIR TOP GASKETS

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	1979-81	MC Top
15-0248	—	42455-82	1982-84	Reservoir
15-0540	—	42455-99	2000-up	Reservoir
15-0242	—	45005-85	1985-95	Master Cylinder Top



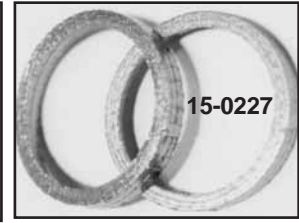
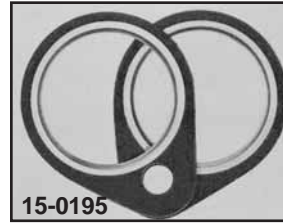
## TURN SIGNAL/FENDER LIGHT/ TAILLIGHT GASKETS

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 Headlamp Mounting Ring
15-0320	—	67734-35	1935-48 Headlamp Lens
15-0206	—	68025-73	1973-up Taillamp Lens
15-0413	—	68121-47	1947-54 Tombstone License Plate Lens
15-0666	—	68120-42	1939-46 Beehive Taillamp Lens
15-0302	—	68121-55	1955-72 Taillamp Top Lens
15-0305	—	68122-47	1947-54 Taillamp Lens
15-0301	—	68122-55	1955-72 Taillamp Lens
15-0323	15-0208	68123-47	1947-54 Taillamp Mounting
15-0322	15-0209	68123-55	1955-72 Taillamp Mounting
15-0224	15-0207	68123-73	1973-up Taillamp Mounting
15-0718	—	68125-25	1925-54 Taillamp Lens
15-0719	—	68126-36	1936-54 Taillamp Lens Inner
15-0724	15-0205	68459-47	1935-49 Front Fender Lamp Mounting
15-0742	15-0326	68121-68	1968-85 FL Turn Signal Lens
15-0409	—	68124-39	1939-46 Taillamp Mounting
15-0667	—	68127-42	1942-46 Taillamp Top Lens
15-0342	—	68226-97	1997-up Tombstone
15-0723	—	68456-35	F.F. Lamp
15-0343	—	68237-97	1997-up Tombstone Taillamp Pad
15-0678	—	68456-89	License Plate Mounting Bracket
15-0187	—	68481-73	1973-85 FX-XL Turn Signal Lens
15-0318	—	—	Sport Taillamp Mounting
15-0665	—	—	Cateye Taillamp Lens
15-0709	—	—	Sparto Taillamp Mounting





# Gaskets

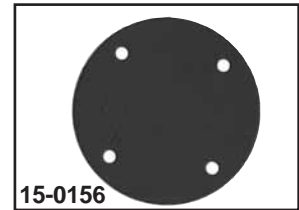


## EXHAUST

GB No.	James	OEM	Fits
15-0344	—	65084-98	1999-up TC-88 Exhaust Port
15-0267	—	65324-83	1984-2000 Exhaust Port Mesh Type
15-0227	15-0712	65324-83A	1984-2000 Graphite Exhaust Port Tapered
15-0732	—	—	As Above, 10 pk
15-0696	15-0968	65721-85	1985-94 FLT Muffler junction
15-0247	15-1069	65781-82	1982-94 FXR Crossover pipe
—	15-1076	65826-90	1991-2000 Dyna Glide Exhaust interconnect
15-0191	—	65834-68	1966-84 Shovelhead (plain)
15-0197	15-1099	65834-68A	1966-84 Shovelhead (all copper)
15-0198	—	—	As Above, 50 pk
—	15-1074	65834-68C	1966-84 Shovelhead Steel Core
15-0195	15-1073	65834-68C	1966-84 Shovelhead Fire Ring™, 10pk
15-0196	—	—	As Above, 50 pk
15-0660	15-1098	—	1966-84 Shovelhead Copper donut

## IGNITION COVER/DISTRIBUTOR BASE

GB No.	James	OEM	Fits
15-0149	15-1020	29550-55	Magneto Cap
15-0153	15-1030	32521-36	1936-64 Distributor (base)
15-0154	15-1031	32591-70	1937-48 Flathead Circuit Breaker
15-0155	15-1032	32591-70	1970-79 Point Cover
15-0156	15-1033	32591-80	1980-99 Point Cover 4 hole



**Cometic AFM Gaskets** feature a chemically blown compound nitrite 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 Dyna, 2007-up FXST
15-1326	2007-up FLT
15-1301	1994-06 FXST, 1994-05 Dyna
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 Dyna, 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
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

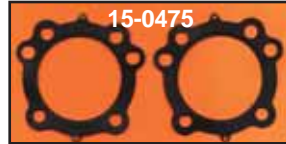




# Gaskets

## CARB, AIR CLEANER AND MANIFOLD, BT

GB No.	James	OEM	Fits
14-0180	14-0625	27002-89	1988-2000 Carb to Intake
15-0139	15-1085	27023-71	1971-75 Bendix Intake to Carb
15-0142	15-1086	27077-78	1978-89 Keihin intake to carb
—	15-1144	27077-78X	1979-89 Intake to carb, with
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 Carb 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 Carb
15-0262	—	27412-48	1948-65 Big Twin Linkert Carb Spacer
15-0147	15-1094	27646-71	1971-76 Bendix Float Bowl
15-0148	15-1146	29058-77	L1977-89 Air Cleaner to carb
—	15-1016	29058-77A	L1977-89 Air Cleaner to carb (.062")
15-0285	15-1017	29059-88	1990-99 80" Evolution Air Cleaner to CV Carb
—	15-1148	29059-88A	1990-99 80" Evoluton Air Cleaner to Carb, Adhesive
—	15-1147	29059-88X	1990-99 80" Evoluton Air Cleaner to Carb, 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, carb to intake, Keihin/Bendix
—	15-1149	29313-95	1995-2000 Air Cleaner backplate
—	15-1200	29368-99	1999-2000 Twin Cam 88 Induction Module Gasket
—	15-1201	29463-99	1999-2000 Twin Cam 88 EFI Filter Element Gasket
15-0676	15-1157	62270-32	Fuel Strainer



### 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	.020	Head Gaskets 1986-99 XL	.030	.040
	15-0487	15-0488		15-0475	15-0476
	15-0489	15-0490		15-0477	15-0478
	—	—		15-0479	15-0480
	—	—		15-0481	15-0482

Cylinder Gasket Set include head and base gasket for Ev, with .040 head gasket.

15-0389	Metal Base
15-0392	Beaded

All Service Products which include gaskets, pins bolts, rollers, bulk packs, hardware will be available for replacement only. No credit will be issued.



**Dowel Pins-Roll Pins.** Special pins in 25 packs. Check factory parts book for more applications.

VT No.	OEM	Fits	Use
12-1169	216	1971-73 FX	Transmission
12-1198	221	1990-up	Primary
12-1176	255	1971-76	Solenoid
12-1182	256	1977-up BT	Solenoid
12-1175	271	41-up 74, 54-up XL	Cam
		1931-up 45"	
12-1184	275	1941-up BT	Cam Case
12-1185	327	1941-up BT	Gear Case
12-1215	328	1980-up	Trans
12-1216	329	1980-up	Starter
12-1217	332	1980-up	Starter
12-1173	333	1937 UL &45	Oil Strainer, 10 pk
		1957-81 XL	
12-1174	334A	1965-up FL-FXE	Starter
12-1219	336	1979-up	Trans
12-1167	341	1941-up FL-FX	Oil Pump
12-1172	375	1941-up BT	Transmission
12-1166	377	1930-up BT	Cam Cover
12-1177	600	1979-up	Solenoid
12-1178	601	Shifter Cam	Solenoid
12-1160	603	1976-84 BT	Rotor
12-1183	606	1952-70 XL	Clutch Hub
12-1181	614, 640	1971-E75 BT	Solenoid
12-1163	615	1970-78 All	Points
12-1164	620	1970-78 All	Points
12-1162	623	1970-78 All	Points
12-1170	625	1975-79 FX	Transmission
12-1171	9106A	1971-79	Transmission



# O-Rings

Sold in 10 packs



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 BT 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 pk
14-0527	11102	1966-69 XLH Timer Housing
14-0502	11103	1957-66 XL, 1967-69 XLCH Clth Gear
14-0503	11105	1966-82 74" & 80" Oil Tank Cap 1970-99 BT Tappet Screen Plug
14-0504	11106	1971-78 XL Primary Cover Filler Cap
14-0505	11107	1966-71 XL, 1967-70 FL Carb Adapter
14-0506	11110	1986-90 XL Tappet Guide Mt Screw 1962-69 XL Tach Plug
14-0577	11114	1982-84 FL-FX Main Drive Gear
14-0507	11115	1965-85 FL-FX 4 spd Trans Ctrshaft
14-0537	11116	1981-90 XLH Starter Motor Housing
14-0538	11117	1984-up FXR Shifter Lever Sleeve
14-0508	11118	1981-85 BT, 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 BT XL O-ring
14-0513	11133A	L1981-85 80" quad FLT Pushrod large
14-0514	11133	L1979-E81 74" & 80" Pushrod Low
14-0907	11133	As above, 100 pk
14-0515	11139	L1978-90 XL Primary Filler Cap
14-0539	11140	1984-up FLT Front Fork Air Control
14-0550	11145	1984-up V2 BT, 1986-90 XL, quad Lower Pushrod Cover
14-0531	11147	1984-99 BT Inner Chain Housing
14-0556	11148	1986-90 XL quad Oil Filter Mount
14-0540	11156	1984 FLT F. Fork Air Control Solenoid
14-0532	11157	1984-up V2 BT, 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 BT 5 spd Quad Mainshaft Ball Bearing Clutch Side
14-0543	11166	1985-86 FXWG-FXEP 4 spd Cntrshaft
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 BT Transmission Filler Plug
14-0553	11179	1987-up BT, 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
14-0974	11241	1992-99 BT 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 Cyl. Head Locating Dowel
14-0814	11286	1999-up TC-88 Oil Pump Outer
14-0815	11288	1999-up TC-88 Cam Position Sensor
14-0816	11289	1999-up TC-88 Crankshaft Sensor
14-0817	11290	1999-up TC-88 Neutral Switch
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
14-0516	26432-76A	1977-85 XL Oil Pump Body
14-0517	26433-77	1986-up XL Cylinder Stud Insert 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 Carb Drain Screws
14-0560	27324-83	1983-87 Twins Keihin Carb Float Bowl
14-0520	27326-71	Bendix Main Jet
14-0521	27336-76	1976-78 FL-FX-XLCR Carb Flange
14-0559	27358-76	1976-78 Twin Keihin Carb 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 Carb 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 BT Starter Shaft
14-0533	34036-80	1980-85 BT 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	L1977-85 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 pk
14-0900	49031-84T	Small O-Ring Pegs, 100 pk
14-0902	49029-85T	Flat Kick Pedal, 100 pk
14-0903	49030-84T	Shifter Peg, 100 pk
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 BT 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 BT, 67-78 XLH Oil Filter Cap
14-0562	68425-86	1986-up Twins Turn Sig Lens Screw
14-0548	68451-86	1986-up FLT-FLST-FXRT Front Turn Signal
14-0549	68455-86	1986-up FXR-XL F & R Turn Signal Lens, FXST-FLST-FXSTC Rear only
<b>100 Pack O-Rings</b>		
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 Shifter





# Seals

Seals are sold 5 pack unless noted other in U/M price list.

James	VT No.	OEM	Fits
14-0616	14-0157	12050	1984-99 FXR-FLT, 91 XL Mainshaft Clutch Side
14-0617	14-0158	12051	1984-88 BT Inner Chain Housing Start Shaft
14-0618	14-0159	12052	1984-up BT Inner Chain Housing Mainsht
14-0619	14-0920	12053A	1989-93 BT Inner Chain Housing Start Shaft
14-0665	14-0961	12066	1994-up BT Inner Chain Housing Starter Shaft
14-0972	14-0962	12067A	1994-up Front Pulley
14-0810	—	12068	99-up TC-88 Sprocket Shft
14-0696	—	12074	Main Drive Gear Outer
14-0697	—	12077	06-up Dyna, 07-up Big Twin As Above Inner
—	7411-2	24776-40	1936-54 BT Engine Seal
—	7410-55	24031-55	1955-69 BT 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 BT Oil Pump
14-0963	14-0925	26856-89	1991-99BT, 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 & TC88
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 Ev Carb to Manifold
14-0626	14-0113	27062-78	1978-85 Big Twin Shovel Intake Manifold to Cylinder Head Sleeve
14-0679	—	27385-76	Low Speed Jet Plug
14-0627	14-0168	29911-82	1976-up All Keihin Carbs
14-0628	14-0112	30145-46A	1982-84 XL Gen Gear End
14-0629	14-0156	31341-80	1958-69 74", 1958-81 XL Generator, Large
14-0630	14-0115	33076-37	1980-84 FXB, 84-85 FXWG Starter Shaft Housing
14-0631	14-0116	34035-52	L1937-84 FL-FX 4 Speed Starter Crank
14-0632	14-0117	34036-36	1952-85 XL Shifter Shaft
14-0635	14-0118	35151-52A	1941-79 Big Twin Shifter Cam Shaft
			1952-74 XL Engine
			1952-E74 XL Trans

James	VT No.	OEM	Fits
—	14-0164	1400	1983-up Big Twin Ev, TC-88 1986-up XL Ev Valve Guide, 10 pk
—	14-0143	1404	1954-85 XL Model Valve Guide Intake, 10 pk
—	14-0144	1405	1954-85 XL Valve Guide Exhaust 10 pk
—	14-0145	1408	1948-78 BT Valve Guide In-Ex 10 pk
—	14-0146	1427	1979-85 BT Shovel 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 BT Chain Oiler Adj Screw
—	14-0178	6375	1946-57 BT Oil Press Sw
—	14-0033	6377	1950-84 BT Oil Pump Fitting
—	14-0032	6581	1954-78 BT 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 BT Shifter Shaft
14-0687	—		Map Sensor 1999-up TC-88
14-0601	14-0101	12002	1961-73 XL, 1961-69 FL Gen Cover
14-0602	14-0102	12010	1979-85 4 Speed Big Twin Foot Shifter Cover
14-0603	14-0106	12013A	L1966-90 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 BT 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 Spd 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 OD
14-0664	—	12047	1980-81 FLT Wheel Bearing
14-0615	14-0150	12049	1984-90 XL Mainsht Sprocket



14-0256



# Seals



Seals are sold 5 pack unless noted U/M price list. \*Note: Metal O.D.

James	VT No.	OEM	Fits
14-0636	14-0119	35151-74	L1974-up XL Engine
14-0637	14-0122	35230-39	L1974-up XL Trans
14-0638	14-0123	35231-36	1941-79 74"-80" Trans Mainshaft Double Lip
—	14-0186	As Above	1937-79 Trans Mainshaft Cork Washer
14-0639	14-0160	37101-84	Rubber
Release Lever	14-0126	37107-06	1984-86 FXR-FLT Clutch
14-0695	—	37107-06	2006-up XL Primary Cover
—	14-0126	37335-41	41-73 45" Clutch Pushrod
14-0640	14-0124	37337-36	37-67 FL Clutch Pushrod Cork
14-0641	14-0125	37339-53	1954-70 XL Clutch Rod
14-0643	14-0127	37531-56B	1955-69 XL Trans Clutch Gear
14-0644	14-0128	37740-57	L1957-66 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 BT Trans Mainshaft
14-0822	—	37741-82	1982-85 BT 4 Speed Trans Mainshaft
14-0647	14-0131	41210-55	As Above Double Lip Rubber O.D.
14-0648	14-0167	45378-87	1955-72 XL, 1967-71 BT Wheel Hub
14-0649	14-0162	45387-83	1987-up FXLR-FXRSE Fork Slider
14-0650	14-0133	45400-75	1983-up FXR-FXRS-FXRT, 1984-up XL Fork Slider
14-0651	14-0132	45733-48	1975-83 XL-FX Fork Slider, Showa
14-0652	14-0134	45843-77	1949-77 FL Model, 1987-up FLST-FXST Fork Tube Cap
14-0653	14-0135	45852-48	1977-83 FL, 80-86 FXWG Fork Slider
14-0654	14-0163	45875-84	1948-77 FL-FLH Fork Slider
14-0655	14-0136	45927-73	84-up FXST, 85-up FXWG, 1987-up FLT
14-0656	14-0137	45975-71	1973-74 FX-XL Fork Slider
14-0657	14-0138	47519-58	1971-72 FX-XL Fork Slider
14-0658	14-0139	47519-72	1973-82 FX Rear Wheel, 1973-82 FL Front/Rear Wire wheel (Double lip)
14-0659	14-0140	47519-83A	1972-82 FX Front and Rear Wheel Seal, 1973-82 FL Front/Rear Mag Wheel
14-0660	14-0141	60641-74	1983-99 FX-XL Front or Rear Wheel (Double lip)
40-9835	—	63525-92	1974-84 FX-74" All models Except FXWG, Shifter Shaft
40-9833	—	63528-92	1992-99 BT Oil Line Feed Tube
14-0662	14-0147	63529-57	1992-99 BT Oil Filter Tube
14-0966	—	67096-87	1957-85 XL, 1966-85 BT Rocker Oil Line
14-0944	—	67098-87	1987-94 FLT Speedo Drive
14-0947	—	67118-87	1987-94 FXR-Dyna-XL Speedo Drive
14-0663*	14-0682*	83162-51	1987-94 FXST-FLST Speedo Drive
14-0680	14-0142	83162-51	1971-99 74"-80" All Cam Cover Single Lip
			As Above Double Lip

## BT Left Side Engine Case Seals

VT No.	#	OEM	Year	Model
7411-2	A	24776-40	1936-54	61-74-80
14-0965	—	24031-55	1955-68	OE type
7410-55	C	24031-55	1955-68	VT
7410-1	C	24031-55	1955-68	Colony
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	BT
14-0108	B	12026B	1970-99	BT, 5 pk
14-0580	B	12026-B	1970-99	BT, 5 pk
14-0810	B	12068	2000-up	TC-88
14-0980	—	12068	2000-up	TC-88

Note: 7410-1, 7410-55 area screw-in insert with integral seal. 14-0965 is stock type screw-in without seal. 7411-2, 8211-2 both include seal, spacer & snap ring.

# Keys



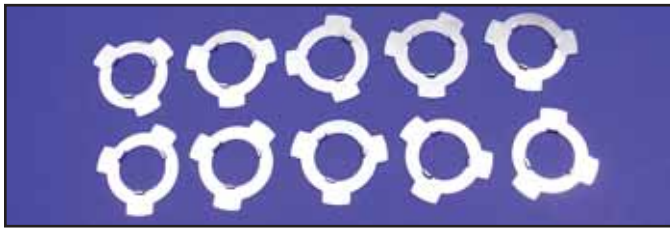
## Keys.

VT No.	OEM	Fits
12-0213	11204	80-85 XL Rear Intake Came
12-0209	11218	1981-90 XL-BT Gear Shaft
12-0215	11219	1981-90 XL-BT Crank Pin
12-0216	11220	1988-99 XL Oil Pump Drive Gear
12-0200	23985-12	1941-81 BT, 54-81 XL Gear Shaft
12-0201	23985-18	1954-81 XL, 30-54 BT Sprocket Shaft
12-0202	23985-54	1941-81 BT, 54-81 XL Gear Shaft
12-0203	23985-56	1954-90 BT Gear Shaft Pinion
12-0204	26340-36	1956-80 BT Sprocket Shaft
12-0214	26341-37	1941-67 BT Oil Pump Gear
12-0205	26348-15	1937-73 45", 62-71 XL Oil Pump Retainer Half
12-0206	33393-50	1971-90 BT Oil Pump Gear
12-0207	35175-38	1972-76 XL Breather Valve Gear
12-0211	35196-26	1975-86 BT Pinion Shaft
12-0208	37523-15	1941-85 BT Starter Clutch
12-0212	37523-85	1941-77 BT Transmission Sprocket
12-0210	40390-54	1926-73 45" Transmission Sprocket
		1941-84 BT Clutch Hub
		1985-90 BT Clutch Hub
		1954-60 BT Compensator Sprocket





# Lock Tabs



## Replacement Lock Tabs.

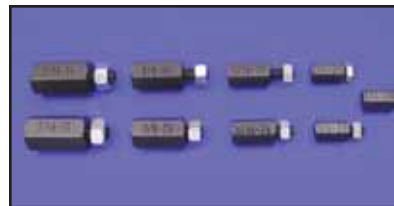
VT No.	OEM	Fits
17-0918	7044A	Pinion Shaft 1979-up XL Gear End
17-9222	7402	1980-84 FLT-FXR Primary
17-0978	23970-36	Crank Pin 1936-40 61"
17-0914	23971-41	Crank Pin 1941-53 BT, 1957-80 XL
17-0927	23971-54	Crank Pin 1954-80 Big Twin
17-0922	23982-12	45" Crank Pin 1929-73
17-0913	24015-36A	Pinion & Sprocket Shaft 1936-71 BT Pinion only 1972-80 BT 1957-80 XL
17-0929	24016-29	Pinion/Spkt Shaft 1929-73 45" S.V.
17-0917	24018-72	Sprocket Shaft Flywheel 1972-80 BT
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
17-0948	29168-83A	Air Cleaner Mount
17-0942	31479-65	1965-69 BT Inner Primary
17-0937	—	1970-up BT Inner Primary
17-0902	33082-16	Kicker & Cntrshft 1941-84 BT 4-Sp.
17-0930	33125-89	Big Twin Starter Shaft 1989-up
17-0907	33197-79	Plunger Body Bolt 1978-84 BT 4-Sp.
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-Spd.
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 BT 4-Speed
17-0943	34747-65	Trans Plate 65-84 BT
17-0900	35050-40	Mainshaft Bearing 1940-84 BT 4-Sp.
17-0910	35050-52	Trans Sprocket All 1952-up XL
17-0933	35216-26	45 Transmission Sprocket 1929-73
17-0901	35216-36	Transmission Sprocket 1936-84 BT
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 BT
17-0924	45717-63	Stem Nut 1960-85 FL's
17-0936	45752-50	Adj. 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	—	Trans Lock Kit All Big Twin
39-0155	71069-47	Dash Stud L1947-67 BT
49-2531	87136-36	Side Car Mount Lock Tab, 5 pack

# Studs



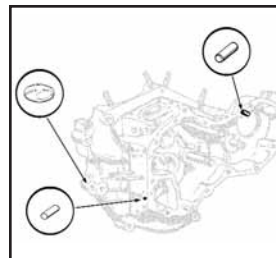
## Factory Type Studs for stock applications.

VT No.	OEM	Fits
12-1197	11733	1984-up FX Trans Stud Set
12-1187	16715-83	1985-up Evo Ex, 5 pk
12-1192	16830-29	1929-up 45 Cylinder Base Set
12-2113	16830-54	1980-up BT Inner Primary, Set
12-2100	16831-30	1930-77 BT Cyl. Base Set
12-1188	16831-83	1985-up Evo Top Mt.
12-2101	16837-78	1978-84 BT Cyl. Base Set
12-2107	16864-48	1948-84 BT Top Mt
12-2114	17647-48	1948-65 Pan Rocker
9917-8	17647-48	1948-65 Pan Rocker Arm
12-2106	17506-66	Shovel Rocker Box Cover Set
	17508-66	1 Head
	16864-48	10 piece Total
		As Above
12-2524	Sifton	& 24820-36, 1936-67 Big Twin
8741-19	24819-36	Oil Pump Set, Cadmium
12-2109	24823-80	1965-up BT Kick Cover Set
12-2126	24824-67	1962-70 Carb 3/8"
12-1191	24914-58	1958-64 BT Breather
12-2127	24253-78	1978-85 Carb, 5/16"
12-2110	29254-78	1978-89 Carb Mount, 5/16"
12-2108	33298-36	1936-64 BT Kick Cover Set
	33298-65	1965-77 Carb, 5/16"
12-2105	34723-47	1936-84 BT O.S. Trans, 4 pk
12-2104	34724-36A	1936-84 BT Trans Mt, 4 pk
12-2112	34725-26	1926-73 45 Trans Case
9919-3	34725-26	1926-73 45 Trans Case
37-6366	42301-79	1979-84 BT MC Mount, ea
8813-4	45840-48	1949-76 Glide Leg, pr
8826-6	45998-73	1977 up Glide Leg, pr
	72341-48	1973-up FX Leg Stud, pr
12-2123	61605-36	1936-83 R. BT Tank Mount
8823-10	72341 48	1948-55 BT Coil Mount, pr
8824-8	72341-56	1956-82 BT Coil Mount, pr



**Stud Installer Set.** 9 pc 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
12-0598	1/4" Welch Plug
12-0623	.619 Welch Plug
12-1166	Timing Cover Pin



# Chrome Caps



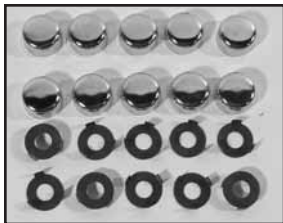
**Chrome Pasties** are allen head bolt covers which install with a set screw for positive hold. Sold in pairs, for screw thread size listed.

VT No.	Size
37-8923	1/4"
37-8924	5/16"
37-8925	3/8"



**Chrome Hole Plugs** snap in as replacements.

VT No.	OEM	Use/Model
37-8349	60650-54A	1955-64 Primary Big Twin
14-0707	O-Ring	For Above
28-0618	56238-62	1962-up HB Grip
37-8994	Stainless	1962-up Spotlight Bar
28-1500	67830-59	Visor Plug
37-0526	68796-88	1988-up FXSTS Spotlamp Bracket
37-9304	68797-68A	1968-84 BT Swing Arm Frame



**Chrome Hide-A-Bolt Caps** is a 13/16" chrome cap with a snap on base which mounts under bolt head, up to 3/8" diameter, 10 pack.  
VT No. 37-0870



**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
37-9197	End Plug Assortment	300	Steel
37-9198	1/4" Refill Bag	100	ABS
37-9199	5/16" Refill Bag	100	ABS
37-9200	3/8" Refill Bag	100	ABS



**Chrome Cap Assortment** includes 100 pc each 1/4", 5/16" and 3/8" caps.  
VT No. 37-1505



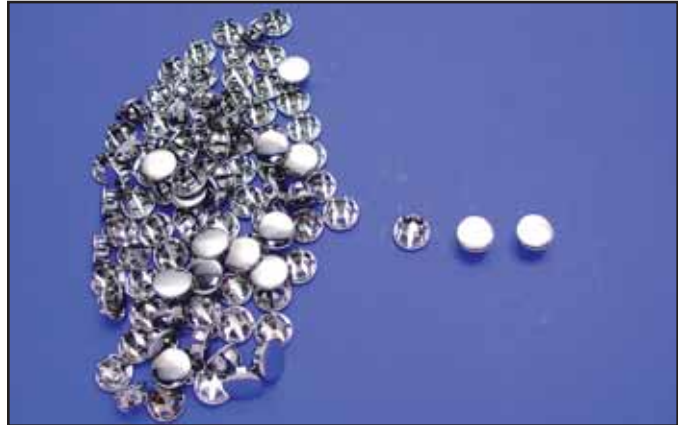
**Chrome Handlebar End Plugs** are accessorized with jewels and skulls. Sold in pairs.

VT No.	Type
37-8972	Sapphire Jewel
37-8974	Red Jewel
37-8975	Skull Spot
28-0618	Plain Chrome, 10 pk



**Chrome Caps** snap on outside knurled allen screws for ease of installation. Packs of 100.

VT No.	Fits
37-1502	1/4"
37-1503	5/16"
37-1504	3/8"



**Press in Caps** for allen screws.

VT No.	Size	Qty
2162-300	Asst	300
2164-100	1/4"	100
2165-100	5/16"	100
2166-100	3/8"	100



12-0704



**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 BT 4 -Spd
12-1257	6750	.007 As Above
12-0703	6752	Shifter Fork .015 1941-85 BT 4-Spd
12-0711	6762B	Pushrod Cover 1941-up all Twins
12-0704	6767	Rocker Arm .005 1966-84 Big Twin
12-0710	—	Rocker Arm .005 1957-84 Sportster
12-0715	—	Same as above .007
12-0705	6769	Same as above .015
12-0706	6770	Cam Shaft .007 #1, 3, & 4 Cams
12-0716	6771	1957-85 Sportster, 1932-73 Flathead
12-0717	6773	Same as above .005
12-0718	6775	Same as above .015
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 BT
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 BT
12-9917	—	As Above .015
10-1259	35404-74	Shift Lever Shim .030 1977-up, 10 pk





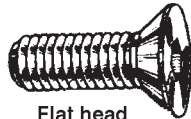
# Chrome and Zinc Plated Bolts



**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	Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine
	UNC	SAE	UNC	SAE	UNC	SAE	UNC	SAE	UNC	SAE
1/4 X 1/2	37-8700	37-8725	37-0153	37-0106	—	—	—	—	—	—
1/4 X 5/8	37-8701	37-8726	37-0154	—	37-8300	37-8324	37-8602	37-8573	37-0600	37-0628
1/4 X 3/4	37-8702	37-8727	37-0155	37-0107	37-8301	37-8325	37-8603	37-8574	37-0601	37-0629
1/4 X 7/8	37-8703	37-8728	37-0156	—	37-8302	37-8326	37-8604	37-8575	37-0602	37-0630
1/4 X 1	37-8704	37-8729	37-0157	37-0108	37-8303	37-8327	37-8605	37-8576	37-0603	37-0631
1/4 X 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 X 1 1/2	37-8706	37-8731	37-0159	37-0110	37-8305	37-8329	37-8607	37-8578	37-0605	37-0633
1/4 X 1 3/4	37-8707	—	37-0160	—	37-8306	37-8330	37-8608	37-8579	37-0606	37-0634
1/4 X 2	37-8708	—	37-0161	—	37-8307	—	37-8609	37-8580	37-0607	37-0635
1/4 X 2 1/4	37-8709	—	—	—	37-8308	—	37-8610	37-8581	37-0608	37-0636
1/4 X 2 1/2	37-8710	—	37-0163	—	—	—	—	—	—	—
1/4 X 2 5/8	37-8738	—	—	—	—	—	—	—	—	—
5/16 X 1/2	37-8711	37-8732	37-0164	37-0114	—	—	—	—	—	37-0550
5/16 X 5/8	—	—	—	—	37-8309	37-8331	37-8611	37-8582	37-0609	37-0637
5/16 X 3/4	37-8712	37-8733	37-0165	37-0115	37-8310	37-8332	37-8612	37-8583	37-0610	37-0638
5/16 X 7/8	—	—	37-0166	—	37-8311	37-8333	37-8613	37-8584	37-0611	37-0639
5/16 X 1	37-8713	37-8734	37-0167	37-0116	37-8312	37-8334	37-8614	37-8585	37-0612	37-0640
5/16 X 1 1/4	37-8714	37-8735	37-0168	37-0117	37-8313	37-8335	37-8615	37-8586	37-0613	37-0641
5/16 X 1 1/2	37-8716	37-8736	37-0169	37-0118	37-8314	37-8336	37-8616	37-8587	37-0614	37-0642
5/16 X 1 3/4	37-8717	37-8737	37-0170	—	37-8315	37-8337	37-8981	37-8588	37-0615	37-0643
5/16 X 2	37-8718	—	37-0171	—	37-8316	37-8338	37-8617	37-8589	37-0616	37-0644
5/16 X 2 1/4	—	—	—	—	37-8317	37-8339	37-8618	37-8590	37-0617	37-0645
5/16 X 3 1/2	—	—	—	—	37-8462	—	—	—	—	—
3/8 X 3/4	37-8719	37-8739	37-0173	37-0122	37-8318	37-8340	37-8619	37-8591	37-0618	37-0646
3/8 X 1	37-8720	37-8740	37-0174	37-0123	37-8319	37-8341	37-8620	37-8592	37-0619	37-0647
3/8 X 1 1/4	37-8721	37-8741	37-0175	37-0124	37-8320	37-8342	37-8621	37-8593	37-0620	37-0648
3/8 X 1 1/2	37-8722	37-8742	37-0176	37-0125	37-8321	37-8343	37-8622	37-8594	37-0621	37-0649
3/8 X 1 3/4	37-8723	37-8743	37-0177	—	37-8322	37-8344	37-8623	37-8595	37-0622	37-0650
3/8 X 2	37-8724	37-8744	37-0178	—	37-8323	37-8345	37-8624	37-8596	37-0623	37-0651
3/8 X 2 1/4	—	—	—	—	—	37-8346	—	—	—	—
3/8 X 2 1/2	—	—	—	—	37-8352	37-8347	—	—	—	—
3/8 X 16 X 3 1/2	—	—	—	—	37-8353	—	37-8682	—	37-8658	—
7/16 X 1	—	—	—	—	—	—	—	37-8597	37-0624	37-0652
7/16 X 1 1/4	—	—	—	—	—	—	37-8625	37-8598	37-0625	37-0653
7/16 X 1 1/2	—	—	—	—	—	—	37-8626	37-8599	37-0626	37-0654
1/2 X 1 1/2	—	—	—	37-0891	—	—	—	—	—	—
1/2 X 2	—	—	—	—	—	37-8351	—	—	—	—
1/2 X 2 1/4	—	—	—	—	—	—	37-8627	37-8600	37-0627	37-0655
1/2 X 2 1/2	—	—	—	—	—	—	37-8980	37-8601	37-0796	37-0656
1/2 X 2 3/4	—	—	—	—	—	—	37-0793	37-0795	—	—
1/2 X 3 3/4	—	—	—	—	—	—	37-0794	—	—	—



# Spacers



## Zinc Spacers

VT No.	ID x OD x L
37-0469	1/4 x 15/32 x 5/32
37-0404	1/4 x 9/16 x 3/4
37-0405	1/4 x 9/16 x 3/4, Black
37-0473	5/16 x 1/2 x 1/2
37-0406	5/16 x 5/8 x 1/4
37-0407	5/16 x 7/8 x 3/8, Black
37-0428	5/16 x 3/4 x 1/4
37-0408	5/16 x 3/4 x 1/4
37-0409	5/16 x 3/4 x 1/2
37-0410	5/16 x 5/8 x 3/8
37-0411	5/16 x 7/8 x 3/8
37-0412	5/16 x 5/8 x 3/4
37-0413	5/16 x 5/8 x 1 1/8
37-0468	5/16 x 3/4 x 1/4
37-0454	5/16 x 1/2 x 5/8
37-0455	5/16 x 1/2 x 1/2
37-0984	5/16 x 1/2 x 2 1/4, Black
37-0458	3/8 x 3/4 x 1/4
37-0414	3/8 x 1 x 1
37-0430	3/8 x 1 x 1 1/4
37-0415	3/8 x 5/8 x 1 1/8, Cadmium
37-0416	3/8 x 1 x 1 1/2
37-0417	25/64 x 1 x 1/2
37-0431	1/2 x 5/8 x 1 1/4, Black
37-0418	1/2 x 1 x 1/2
37-0439	1/2 x 3/4 x 1
37-0420	1/2 x 3/4 x 2 1/4
37-0421	5/8 x 1 x 1/4
37-0432	25/64 x 3/4 x 1 1/2, Zinc Spacer

## Chrome Steel Spacers.

Pack of 5.	VT No.	ID x L	OD
	37-0459	1/4 x 1/8	5/8
	37-0460	1/4 x 1	5/8
	37-0461	5/16 x 1/8	5/8
	37-0462	5/16 x 1/4	5/8
	37-0463	5/16 x 3/8	5/8
	37-0464	5/16 x 1/2	5/8
	37-0465	5/16 x 3/4	5/8
	37-0466	3/8 x 3/8	3/4
	37-0467	3/8 x 3/4	3/4
	37-0468	3/8 x 1	3/4

## Aluminum

VT No.	ID x OD x L
37-0422	1/4 x 5/8 x 5/8
37-0423	5/16 x 1 1/16 x 7/16
37-0424	3/8 x 1 x 7/8
37-0425	3/8 x 5/8 x 1 1/8

## Chrome Steel Spacer 10 pack.

VT No.	ID x OD x L	VT No.	ID x OD x L
37-0457	1/4 x 15/32 x 1/4	37-0400	5/16 x 3/4 x 1
37-8628	1/4 x 7/16 x 3/16	37-0401	5/16 x 5/8 x 1 1/8
37-8629	1/4 x 7/16 x 1/4	37-8636	3/8 x 9/16 x 1/8
37-8630	1/4 x 7/16 x 3/8	37-8637	3/8 x 13/16 x 1/2
37-0470	1/4 x 1/2 x 3/32	37-0402	3/8 x 3/4 x 1/2
37-0435	1/4 x 3/4 x 1/2	37-0403	3/8 x 5/8 x 7/8
37-8631	1/4 x 7/16 x 5/8	23-0600	3/8 x 9/16 x 1/4 (a)
37-8632	1/4 x 7/16 x 3/4	23-1742	3/8 x 3/4 x 3/16 (b)
37-8633	1/4 x 7/16 x 7/8	37-8638	7/16 x 1 1/16 x 5/16
37-8634	1/4 x 7/16 x 1 1/16		
37-8635	5/16 x 1/2 x 17/32		

(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
9834-8	1/4"	8
9835-8	5/16"	8
9836-5	3/8"	5
9844-5	7/16"	5



Chrome Top Motor Mount Spacer Set for spacing out top mount or wide tire conversions. Spacers have 7/16" ID with 1 1/8" OD.

VT No.	Thickness
37-0438	5/8"
37-0419	3/4"
37-0437	1/2"



# Washers



Lockwasher Biter Assortment includes 50 piece of each size.  
 VT No. 37-0535

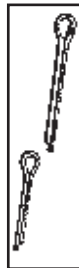


## Lock Washers

Zinc	Chrome	OEM	I.D.	Qty.
37-0689	37-9053	—	#8	100
37-0852	—	—	#10	25
37-0690	37-9054	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
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

Cotter Pins are zinc plated, sold in 100 pack.

VT No.	OEM	Size
37-8660	510	1/16" x 1/2"
37-8795	511	5/32" x 1 1/4"
37-8659	512	1/16" x 5/8"
37-9042	515	1/16" x 3/4"
37-8786	528	3/32" x 5/8"
37-8787	531	3/32" x 7/8"
37-8661	534	3/32" x 1"
37-8788	513	3/32" x 1 5/16"
37-8789	550	1/8" x 5/8"
37-8790	559, 520W	1/8" x 1 1/4"
37-8663	566	3/16" x 1"



## Flat Washers

Zinc	Chrome	I.D.	Type	Qty.
37-0681	37-8557	#8	Standard	100
37-0682	37-8558	#10	Standard	100
	8166-12	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
	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	5/16"	5/8" OD OE	100
37-9272	—	1/4"	OE	25
—	9633-50	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
—	37-0456	3/4"	Special	10

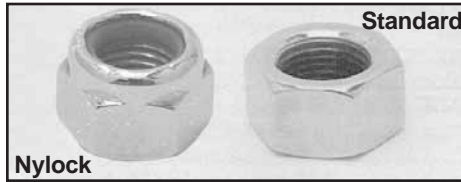
\*Note: Extra thick with tighter fitting I.D. than standard SAE washers.

\*\*Note: 25 pieces per pack





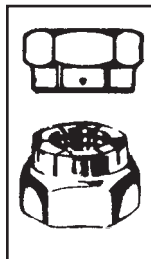
# Nuts



**Hex Nuts** sold either in zinc or chrome, Nylock or Standard. Nylock features a plastic insert for vibration proof mounting, 20 pack for chrome and 50 pack for zinc

Chrome STD	Chrome Nylock	Zinc STD	Zinc Nylock	Size
—	—	<b>39-0166</b>	—	5/32
—	—	<b>39-0167</b>	—	5/32
—	—	—	<b>12-0582</b>	10/32 NF
<b>37-8110</b>	<b>37-8119</b>	<b>37-0657</b>	<b>37-0666</b>	1/4-20
<b>37-8111</b>	<b>37-8120</b>	<b>37-0658</b>	<b>37-0667</b>	1/4-28
<b>37-8112</b>	<b>37-8121</b>	<b>37-0659</b>	<b>37-0668</b>	5/16-18
<b>37-8113</b>	<b>37-8122</b>	<b>37-0660</b>	<b>37-0669</b>	5/16-24
<b>37-8114</b>	<b>37-8123</b>	<b>37-0661</b>	<b>37-0670</b>	3/8-16
<b>37-8115</b>	<b>37-8124</b>	<b>37-0662</b>	<b>37-0671</b>	3/8-24
<b>37-8116</b>	<b>37-8125</b>	<b>37-0663</b>	<b>37-0672</b>	1/2-20
<b>37-8117</b>	<b>37-8126</b>	<b>37-0664</b>	<b>37-0673</b>	7/16-20
<b>37-8118*</b>	<b>37-8127*</b>	<b>37-0665</b>	<b>37-0674</b>	5/8-18

\*Note: Sold in 10 pack



**Flex-Lock Nuts Replicas** are all metal, cadmium plated.

VT No.	Size	VT No.	Size
<b>37-9144</b>	10/24 NC	<b>37-0875</b>	5/16-18
<b>37-0850</b>	10/32 N. F.	<b>37-9146</b>	5/16-24
<b>37-9150</b>	1/4-20	<b>37-0876</b>	3/8-16
<b>37-9145</b>	1/4-28 Fine	<b>37-9147</b>	3/8-24
<b>12-0571</b>	5/16-24 Thin	<b>37-9148</b>	7/16-20
<b>9918-8</b>	5/16-24 Thin 8pc	<b>37-9149</b>	1/2-20



**Well-Nuts** are rubber inserts which press in panels as threaded inserts.

VT No.	OEM	Thread	Type
<b>37-9193</b>	5210	5/32	Headlight
<b>37-9194</b>	5207	10/32	Module
<b>37-8348</b>	8099	1/4-20	FXR Cover
<b>37-8350</b>	8098	10/24	FXR Horn Mount



**Krommetts** are available in traditional gold, chrome type or 10 point, 10 pk, 1/4" x 28 thread.

VT No.	Item
<b>37-1954</b>	Star Washer
<b>37-0869</b>	1 3/8" OD Rubber Washer for Above
<b>37-0503</b>	Chrome Rocket with Fins
<b>37-0501</b>	Chrome Krommetts
<b>37-0502</b>	Gold Krommetts



**Red Cap Nuts** are plastic red caps on cadmium replica nuts as used on rocker shaft ends, replacing 7872 in 7/16 x 20 thread. Available in popular sizes for matching engine and transmission, SAE fine thread only.

VT No.	Size	VT No.	Size
<b>37-8778</b>	10-32	<b>37-8781</b>	3/8-24
<b>37-8779</b>	1/4-28	<b>37-8782</b>	7/16-20
<b>37-8780</b>	5/16-24	<b>37-8783</b>	1/2-20



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

## Pike Nuts, Fine

VT No.	Size	U/M
<b>6901-5</b>	10-32 SAE	5 pk
<b>6902-5</b>	1/4-28 SAE	5 pk
<b>6900-5</b>	1/4-24 H.D	5 pk
<b>6903-4</b>	5/16-24 SAE	4 pk
<b>6904-3</b>	3/8-24 SAE	3 pk
<b>6905-2</b>	7/16-20 SAE	2 pk
<b>6906-1</b>	1/2-20 SAE	Ea
<b>6907-1</b>	9/16-18 SAE	Ea
<b>6908-1*</b>	5/8-18 SAE, (1")	Ea
<b>6909-1*</b>	5/8-18 SAE, (1 1/4")	Ea
<b>44-0647</b>	3/4-16 SAE, (1 1/4")	Pair

## Pike Nuts, Coarse

U/M	VT No.	Size	U/M
5 pk	<b>6910-5</b>	10-24	5 pk
5 pk	<b>6911-5</b>	1/4-20	5 pk
4 pk	<b>6912-4</b>	5/16-18	4 pk
3 pk	<b>6913-3</b>	3/8-16	3 pk
2 pk	<b>6914-2</b>	7/16-14	2 pk
Ea	<b>6915-1</b>	1/2-13	Ea
Ea	<b>6916-1</b>	9/16-12	Ea
Ea	<b>6917-1*</b>	5/8-11, (1")	Ea
Ea	<b>6918-1*</b>	5/8-11, (1 1/4")	Ea

\*Note: Hex Size



## Cap Nuts, Fine

VT No.	Size	U/M
<b>8414-5</b>	1/4-24	5 pk
<b>8415-5</b>	10-32,	5 pk
<b>8416-5</b>	1/4-28	5 pk
<b>8417-4</b>	5/16-24	4 pk
<b>8418-3</b>	3/8-24	3 pk
<b>8419-2</b>	7/16-20	2 pk
<b>8420-1</b>	1/2-20	Ea
<b>8421-1</b>	9/16-18	Ea
<b>8422-1*</b>	5/8-18, 15/16"	Ea

## Cap Nuts, Coarse

U/M	VT No.	Size	U/M
5 pk	<b>8423-5</b>	10-24	5 pk
5 pk	<b>8424-5</b>	1/4-20	5 pk
4 pk	<b>8425-4</b>	5/16-18	4 pk
3 pk	<b>8426-3</b>	3/8-16	3 pk
2pk	<b>8427-2</b>	7/16-14	2pk
Ea	<b>8428-1</b>	1/2-13	Ea
Ea	<b>8429-1</b>	9/16-12	Ea
Ea	<b>8430-1*</b>	5/8-11 15/16"	Ea

\*Note: Hex Size



## Acorn Nuts, Fine

VT No.	Size	U/M
<b>6930-5</b>	1/4-24	5pk
<b>6931-5</b>	10-32	5 pk
<b>6932-5</b>	1/4-28	5 pk
<b>6933-4</b>	5/16-24	4 pk
<b>6934-3</b>	3/8-24	3 pk
<b>6935-2</b>	7/16-20	2 pk
<b>6936-1</b>	1/2-20	Ea
<b>6937-1</b>	9/16-18	Ea
<b>6938-1*</b>	5/8-18, (15/16)	Ea
<b>6939-1*</b>	3/4-16, (1 1/8)	Ea
<b>6940-1*</b>	5/8-18, 1 1/4	Ea
<b>37-0889</b>	3/4-16, (1 1/4)	Ea

## Acorn Nuts, Coarse

U/M	VT No.	Size	U/M
5 pk	<b>6941-5</b>	10-24	5 pk
5 pk	<b>6942-5</b>	1/4-20	5 pk
4 pk	<b>6943-4</b>	5/16-18	4 pk
3 pk	<b>6944-3</b>	3/8-16	3 pk
2pk	<b>6945-2</b>	7/16-14	2pk
Ea	<b>6946-1</b>	1/2-13	Ea
Ea	<b>6947-1</b>	9/16-12	Ea
Ea	<b>6948-1*</b>	5/8-11 (15/16)	Ea
Ea	<b>6949-1*</b>	5/8-11 (1 1/4)	Ea

\*Note: Hex Size



# Factory Type Washers, Nuts and Screws

## Replica Steel Washers. Zinc plated

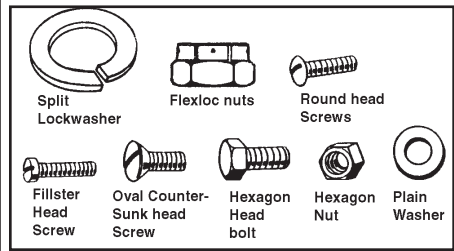
unless noted. Check

Parts Book for fitment.

VT No.	OEM	Size/Thickness
37-9307	6001	7/16 X 3/4 X 1/16
37-9333	6002	5/16 X 5/8 X 1/16
37-9340	6011	3/32 X 5/16 X 1/32, Brass
37-9195	6016	11/32 X 11/16 X 1/16
37-9266	6019	3/8 X 29/32 X 1/16
37-0836	6026	3/8 X 7/8 X 7/64
37-0801	6033	3/8 X 9/16 X 1/16
37-0802	6052	9/16 X 5/16 X 1/16
37-9339	6053	3/16 X 7/16 X 1/16, Nylon
37-9338	6054	3/16 X 9/16 X 1/16, Nylon
37-9352	6072	3/8 X 1 1/4 X 1/16
37-0532	6083	3/8 X 2 X .060
37-9267	6099	1/4 X 7/16 X 1/16
37-9268	6109	5/16 X 11/16 X 1/8
37-9269	6113	1/2 X 13/16 X 1/32
37-9270	6115	13/32 X 23/32 X 1/16
9985-24	6150	3/16 X 3/8 X 1/16, Cad
14-0031	6156	3/16 X 3/8, Brass (5)
37-0843	6187W	13/64 X 9/16 X 1/16
37-9271	6189W	#8 X 3/8 X 1/32
37-9309	6192	#8 X 7/16 X 3/64
37-0856	6194	13/64 X 1 1/16 X 3/64
37-9337	6228W	1/4 X 1/2 X 1/16
37-9336	6229W	5/16 X 1 1/16 X 3/64
23-1700	6230	11/32 X 13/32 X .032
37-9043	6220W	1/4 X 7/16 X 1/32
37-9319	6235	1/4 X 23/32 X 1/16
37-9298	6237	5/16 X 1 1/8 X 5/64
37-9394	6239	1/4 X 1/2 X 3/32
37-9272	6242W	1/4 X 9/16 X 1/32
37-9273	6316HW	5/16 X 5/8 X 1/16
37-9335	6317	3/4 X 1 1/2 X 1/32, Nylon
12-1158	6320	5/16 X 5/8 X 1/16
37-9362	6324W	5/16 X 11/16 X 1/16
37-9274	6327B	5/16 X 3/4 X 1/16
37-9347	6329	5/16 X 7/8 X 5/64
37-0837	6332B	5/16 X 15/16 X 3/64
37-9275	6333	5/16 X 7/8 X 5/64
37-0811	6365	1/2 X 1.25 X 1/16
12-0418	6366	1/2 X 1 1/4 X 3/32
37-9310	6379W	3/8 X 5/8 X 3/64
37-0838	6388HB	3/8 X 23/32 X 1/16
37-9326	6341B	5/16 X 1 1/8 X 3/64
37-9276	6334	7/16 X 1 X 1/8
37-0838	6388HB	3/8 X 23/32 X 1/16
37-9277	6395B	3/8 X 13/16 X 1/16
37-0835	6400HB	5/16 X 13/16 X 3/32
37-0533	6402	25/64 X 55/64 X 7/64
37-0839	6408	25/64 X 55/64 X 1/8
37-0792	6408	25/64 X 55/64 X 1/8, Parkerized
37-0797	6408	25/64 X 55/64 X 1/8, Zinc
37-8858	6410	1/4 X 9/16 X 1/16, Nylon
54-0432	6415W	3/8 X 1 1/8 X 3/32
37-9278	6417W	3/8 X 1 1/8 X 1/8
37-9324	6418B	3/8 X 1 1/8 X 11/64
12-9918	6443W	3/8 X 1 1/8 X 1/8
37-9313	6440	13/32 X 11/16 X 1/32
12-1193	6466W	13/32 X 5/8 X 1/32
8170-10	6469HW	7/16 X 3/4 X 1/8
37-9239	6469	7/16 X 3/4 X 1/8
37-9279	6473HB	29/64 X 51/64 X 1/16
37-0570	6474	3/8 X 13/16 X 5/32
37-9280	6481	15/32 X 13/16 X 9/64
37-9281	6486HW	29/64 X 13/16 X 3/32
37-9282	6490HB	7/16 X 15/16 X 1/8
37-9283	6495HW	7/16 X 15/16 X 1/8
37-9133	6495HW	7/16 X 1 1/8 X 3/64
37-9320	6516W	7/16 X 1 1/8 X 1/8
37-9284	6521W	7/16 X 1 1/8 X 3/32
37-9285	6522HB	7/16 X 1 1/8 X 5/32
37-9286	6524W	7/16 X 1 1/8 X 1/32

## Washers Continued

37-0010	6543	31/64 X 3/4 X 1/64
37-0011	6565W	1/2 X 3/4 X 3/32
37-9305	6645	31/64 X 1/32 X 1/8
37-1951	6911A	1/2 X 1 1/8 X 3/32, Parkerized
37-1952	6590HW	1/2 X 1 1/8 X 3/32, Zinc
37-9291	6653A	5/8 X 1 1/16 X 3/32
37-9292	6655	5/8 X 1 1/2 X 3/32
37-9308	6663HB	9/16 X 1 1/8 X 3/32
37-0696	6701	3/8 X 13/16 X 1/16
37-9287	6702	5/16 X 11/16 X 1/16
37-0697	6703	1/4 X 5/8 X 1/16
37-9351	6716	#10 X 1/2 X 3/64
54-0437	6724W	21/32 X 1 1/16 X 1/16
37-9135	6736	9/32 X 5/8 X 1/16
12-1157	6737	57/64 X 13/64 X 1/32
37-9288	6738	17/32 X 7/8 X 7/64
37-9344	6758	3/8 X 37/64 X 1/16
37-9342	6759	3/16 X 3/8 X 1/32
37-9323	6771A	21/64 X 33/64 X 1/16
37-9361	6780	11/16 X 29/32 X 1/16
37-0791	6788	5/16 X 1 X 1/16 SS
37-9353	6804	1/2 X 1 1/8 X 1/16
37-0857	6807W	1/2 X 3/4 X 1/32
37-9325	6846	29/64 X .355 X 1/16
37-0814	7400HB	3/8 X 13/16 X 7/64
<b>Nuts</b>		
37-0700	10-24 N.C. Flexloc Nut	
37-0436	10-24 Hex Nut	
37-0701	1/4"-28 N.F. Thread Acorn Nut, Chrome	
37-0702	1/4"-20 N.C. x 1/4" x 1/2" Hex Nut	
37-0703	1/4"-24 N.S. x 5/32" x 7/16" Hex Nut	
37-0704	1/4"-24 N.S. x 1/4" x 1/2" Hex Nut	
37-0705	5/16"-24 N.F. Thread Flexloc Nut	
37-0706	5/16"-18 N.C. x 17/64" x 1/2" Hex Nut	
37-0707	5/16"-24 N.F. x 17/64" x 1/2" Hex Nut	
37-0829	5/16"-24 N.F. x 17/64" x 1/2" Hex Nut, Cad	
37-0708	5/16"-24 N.F. x 5/16" x 9/16" Hex Nut	
37-0709	3/8"-24 N.F. x 1/4" x 9/16" Hex Nut	
37-0710	3/8"-24 N.F. x 21/64" x 9/16" Hex Nut	
37-0711	3/8"-24 N.F. x 21/64" x 5/8" Hex Nut	
37-0712	3/8"-24 N.F. x 1/2" x 9/16" Hex Nut	
37-0713	3/8"-24 N.F. x 19/32" x 9/16" Cast/ldt	
37-0714	7/16"-20 N.F. Thread Flexloc Nut	
37-0715	7/16"-20 N.F. x 1/4" x 9/16" Hex Nut	
37-0716	7/16"-20 N.F. x 1/4" x 5/8" Hex Nut	
37-0717	7/16"-20 N.F. x 3/8" x 5/8" Hex Nut	
37-0718	7/16"-20 N.F. x 3/8" x 5/8" Hex Nut	
37-0719	7/16"-20 N.F. x 1/2" x 5/8" Hex Nut	
37-0720	7/16"-20 N.F. x 3/8" x 3/4" Hex Nut	
37-0721	7/16"-20 N.F. x 7/16" x 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	
37-0722	7/16"-18V x 1/4" x 11/16" Hex Nut	
37-0723	1/2"-20 N.F. x 3/8" x 3/4" Hex Nut	
37-0724	1/2"-20 N.F. x 5/16" x 13/16" Hex Nut	
37-0725	1/2"-20 N.F. x 7/32" x 7/8" Hex Nut	
37-0726	1/2"-20 N.F. x 7/16" x 7/8" Hex Nut	
37-0727	1/2"-20 N.F. x 17/32" x 7/8" Hex Nut	
37-0728	9/16"-18 N.F. x 11/32" x 15/16" Hex Nut	
37-0729	9/16"-18 N.F. x 1/2" x 15/16" Hex Nut	
37-0730	5/8"-18 N.F. x 7/32" x 15/16" Hex Nut	
37-0731	5/8"-18 N.F. x 7/16" x 7/8" Hex Nut	
37-0732	5/8"-24 N.E.F. x 7/32" x 7/8" Hex Nut	
37-0733	1"-20 N.E.F. x 3/8" x 1 3/8" Hex Nut	
37-0734	5/16"-24 N.F. x 17/64" x 7/16" Hex Nut	
37-0735	5/16"-24 N.F. x 3/16" x 1/2" Hex Nut	
<b>Washers</b>		
37-0737	3/16" x 7/16" x 1/32" Plain Steel Washer	
37-0738	1/4" x 5/8" x 1/16" Plain Steel Washer	
37-0740	5/16" x 1/2" x 1/16" Plain Steel Washer	
37-0741	5/16" x 11/16" x 1/16" Plain Steel Washer	
37-0742	25/64" x 1" x 1/8" Plain Steel Washer	
37-0743	3/8" x 13/16" x 1/16" Plain Steel Washer	
37-0744	7/16" x 15/16" x 1/8" Plain Steel Washer	
37-0745	29/64" x 1 1/8" x 3/32" Plain Steel Washer	



Parkerized finish unless noted otherwise. **COLONY**

37-0746	8-32 N.C. x 5/8" Round Head Screw
37-0739	8-32 N.C. x 3/8" Fillister Head Screw
37-0736	8-32 N.C. x 1/4" Round Head Screw
37-0750	10-24 N.C. x 1/2" Fillister Head Screw
37-0751	10-32 N.F. x 1/4" Round Head Screw
37-0752	10-32 N.F. x 3/8" Fillister Head Screw
37-0753	10-32 N.F. x 1/2" Fillister Head Screw
37-0851	10-32 N.F. x 1/2" Flathead Screw, SS
12-0583	10-32 N.F. x 5/8" Fillister
37-0754	1/4" x 1/2" Ext. Tth Shake Proof Washer
37-0755	1/4" x 15/32" Cntrsnsk Shke Prf Wshr, Prk.
37-0756	10-32 N.F. x 5/8" Fillister Head Screw
37-0757	5/16" x 5/8" Cntrsnsk Shake Proof Lockwasher, Prk
12-0583	10-32 N.F. x 5/8" Fillister Head Screw, Zinc
37-0758	12-24 N.C. x 1/2" Fillister Head Screw
37-0759	12-24 N.C. x 13/16" Oval Countersunk
37-0760	12-24 N.C. x 1/2" Oval Countersunk
37-0761	1/4"-24 N.S. x 7/16" Round Head Screw
37-0762	1/4"-24 N.S. x 1/2" Round Head Screw
37-0763	1/4"-24 N.S. x 5/8" Round Head Screw
37-0764	1/4"-24 N.S. x 7/8" Round Head Screw, Chrome
37-0834	1/4"-24 N.S. x 5/8" Round Head Screw, Cadmium
37-0765	1/4"-24 N.S. x 3/4" Hexagon Head Bolt
37-0766	1/4"-24 N.S. x 1 1/8" Oval Countersunk
37-0767	1/4"-24 N.S. x 13/16" Oval Countersunk
37-0768	5/16"-24 N.F. x 3/4" Hexagon Head Bolt
37-0769	5/16"-24 N.F. x 7/8" Hexagon Head Bolt
37-0770	5/16"-24 N.F. x 1" Hexagon Head Bolt
37-0771	5/16"-24 N.F. x 1 1/8" Hexagon Head Bolt
37-0772	5/16"-24 N.S. x 1 1/4" Hexagon Head Bolt
37-0773	3/8"-24 N.C. x 13/16" Hexagon Head Bolt
37-0774	3/8"-16 N.C. x 1 3/8" Hexagon Head Bolt
37-0775	3/8"-24 N.F. x 1 3/8" Hexagon Head Bolt
37-0776	3/8"-24 N.F. x 1 1/8" Hexagon Head Bolt
<b>Flatwashers &amp; Lockwashers</b>	
37-0777	1/4" Parkerized Flatwashers
37-0778	1/4" Parkerized 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" x 1/2" Cotter Pin
37-0748	3/32" x 5/8" Cotter Pin
37-0749	3/32" x 1" Cotter Pin





# Auto Slip Clutch

VT No.	Price
20-2023	\$242.71



**Auto Slip Clutch fits  
BDL and York Units.**



### Auto Slip Clutch Instructions

VT Part No. 20-2023

(For use with BDL and York Belt Drive Units)

**This is a custom application and should only be installed by a knowledgeable and trained motorcycle technician. V-Twin Mfg. accepts no responsibility for improper installation.**

- Remove adjuster screw by first loosening jam nut then back allen bolt completely out.
- Remove shoulder bolts and springs.
- Discard pressure plate.
- Remove ALL clutch disc and plates.
- Remove six outer drive dowels (which is every other one), six will be left in place.
- Install six new supplied dowels in the spaces where you just removed the original six.
- Reinstall clutch disc and plates as follows:
  - Thick plate.
  - Disc (these are the ones with fibers).
  - Thin plate.
  - Disc.
  - Thin plate.
  - Disc.
  - Thin plate.
  - Disc.
  - Thin plate.
  - Disc.

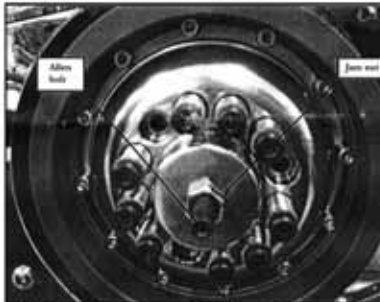
- Thin plate.
- Disc.
- Thin plate.
- Disc.
- Supplied plate.
- Disc.

**Note:** You must follow this order and finish with a fiber disc last (against pressure plate).

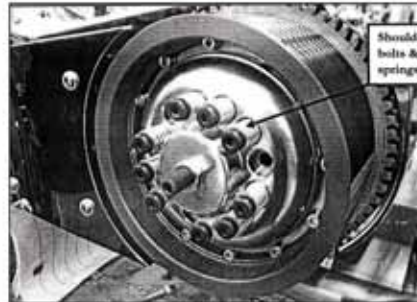
- Install new pressure plate assembly using supplied 8-32 socket head screws, make sure to use loctite on screw heads. At this point check for proper clearance by pushing in on center of pressure plate. You should have .070-.100 of movement.

If you do not have enough travel (.070-.100) do the following: Replace supplied plate step 15 with the original thin plate and then repeat steps 8 and 9.

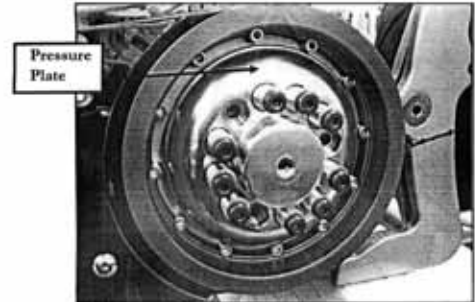
- Install adjuster bolt and jam nut. Adjust clutch for proper free travel. Run adjuster in until it just touches. Then back it out TWO full turns. This is a good starting point. Clutches typically adjust properly between 1 1/2 and 3 turns.



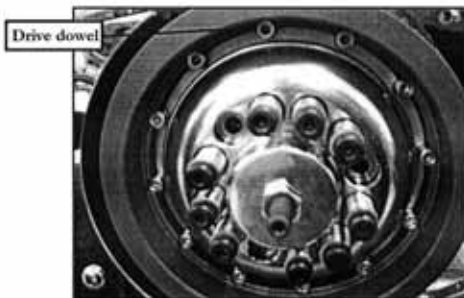
- Remove adjuster screw by first loosening jam nut then back allen bolt completely out.



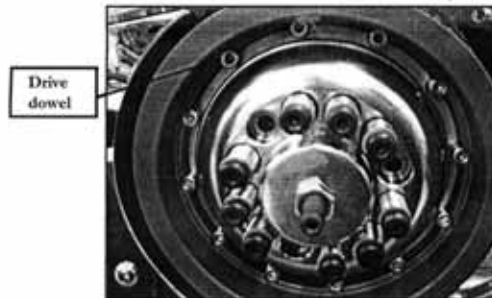
- Remove shoulder bolts and springs.
- Discard pressure plate.



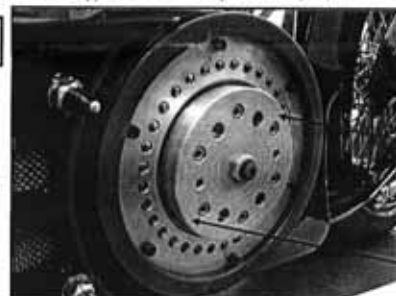
- Remove ALL clutch disc and plates.
- Remove six outer drive dowels (which is every other one), six will be left in place.



- Install six new supplied dowels in the spaces where you just removed the original six.



- Install new pressure plate assembly using supplied 8-32 socket head screws, make sure to use loctite on screw heads. At this point check for proper clearance by pushing in on center of pressure plate. You should have .070-.100 of movement.



If you do not have enough travel (.070-.100) do the following: Replace supplied plate step 15 with the original thin plate and then repeat steps 8 and 9.



- Install adjuster bolt and jam nut. Adjust clutch for proper free travel. Run adjuster in until it just touches. Then back it out TWO full turns. This is a good starting point. Clutches typically adjust properly between 1 1/2 and 3 turns.





# Stator/Rotor Kits

## Featuring:

- Resilient Insulation
- Heat-Set Molded Plugs, will not separate or crack
- Consistent Output, to reduce battery discharge
- Chrome Regulator

V-Tech Stator and Rotors deliver improved output and durability while retaining stock replacement interchangeability. Our Stators, Rotors and Regulators replace the OEM components as a direct refitment for service or upgrade. Full warranty direct through V-Twin Distribution.

## 32 Amp High Output, Alternator Kit Fits 1989-99 BT



VT No.	Price
32-7775	\$264.14

**V-Twin offered the first Stator kits in 1982.**

**Note: Prices listed are O.T.C Over The Counter. Taxes and freight are not included.**





# Motorcycle Display Stand



<b>VT No.</b>	<b>Price</b>
16-1600	\$132.21

## Center Stand

### VT 16-1600

#### Installation instructions

- 1) Insert the clamping bracket (Figure 1) between the transmission and the frame bow tie (Figure 2).
- 2) Align the screw holes in the stand (Figure 3) with the holes in the bow tie and the holes in the clamping bracket.
- 3) Install the two 1/2" screws with lock washers through and into the clamping bracket. Tighten the screws.

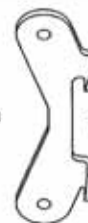


Figure 1



Figure 2

#### How To Use:

Once the stand is installed, use your right foot to push the stand lever back towards the tire and downward until both feet of the stand contact the ground. Apply pressure with your foot until the bike settles completely on the stand. It is suggested you have someone on the other side of the bike until you become accustomed to this procedure. Only use this stand on level ground with the bike in first gear.

#### Parts list

Parts list	Quantity
Stand Assembly	1
Stand Clamp	1
1/2-13NC x 1-1/4 Hex Head Cap Screw	2
1/2 Split Lock Washer	2



Figure 3

**Show your Custom Dresser, and FLT's, 1980-UP, all models. 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!**





# Chassis Upgrades



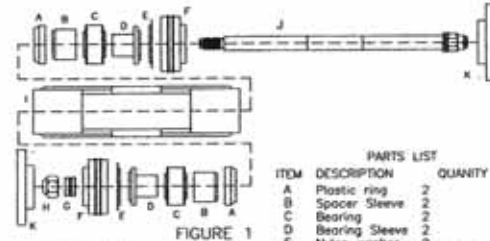
**1982-02 FLT-FXR Kit updated with aligning bearing. All pieces included for ease of installation.**

**VT No. Price**  
**44-0941 \$214.14**

## 1982-02 FLT/FXR SWING ARM BEARING KIT

### INSTALLATION INSTRUCTIONS

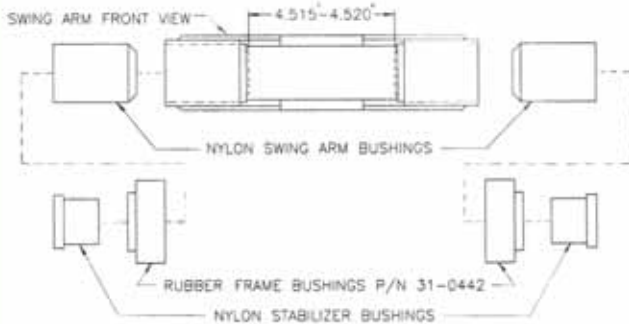
- 1) Refer to the HD manual for removal of the swing arm and Clevisbolts.
- 2) Press one of the spherical bearings (C) onto one bearing bearing sleeve (D). It is important to press only on the bearing inner race to not damage the bearing. The bearing must be all the way onto the sleeve so it contacts the shoulder. Repeat for the other bearing and sleeve.
- 3) Clean the swing arm housing using a degreaser and clean the spherical bearing outer races with the degreaser.
- 4) Insert one spacer (B) into an inner seal (A) and push the two pieces into one side of the swing arm.
- 5) Coat the outer race of one spherical bearing with red Loctite (626) and start it into the side of the swing arm housing as shown where the inner seal was positioned. Press the bearing and sleeve assembly into the swing arm housing using a hydraulic or arbor press. The outside face of the sleeve must be flush with the outside surface of the swing arm housing as shown in figure 2.
- 6) Allow the Loctite to cure for two hours before proceeding. This will insure that the bearing does not move during swing arm installation and that proper center alignment is maintained.
- 7) Coat the outer race of the second spherical bearing with Loctite and press it into the swing arm housing as was done in step #5.
- 8) Immediately install the swing arm onto the transmission before the Loctite is cured so that the bearing can move to its exact proper position when the pivot shaft is tightened.
- 9) Install the plastic washers (E), rubber mounts (F), pivot shaft (J), cup washer (G), lock nut (H) and swing arm brackets (K). Refer to the HD manual for the proper installation.



ITEM	DESCRIPTION	QUANTITY	VT
A	Plastic ring	2	44-2038
B	Spacer Sleeve	2	44-0959
C	Bearing	2	
D	Bearing Sleeves	2	44-0960
E	Nylon washer	2	44-2041
F	Rubber Mount	Not included	31-0443
G	Cup Washer	Not included	44-2042
H	Nut	Not included	
I	Swing Arm	Not included	
J	Pivot Shaft	Not included	44-1991
K	Swing Arm Bracket	Not included	

Assembled position of parts for each side  
**FIGURE 2**

## 1982-02 FLT-FXR BUSHING SET



### INSTALLATION INSTRUCTIONS

1. Clean swing arm bushing from all debris.
2. Install bushings Nylon centered in swing arm as shown in drawing. The Nylon bushing replaces the O.E.M style bushing, plastic retaining ring, spacer, Nylon washer and bushing ring. Use the spacer tube provided to obtain the correct spacing between the Nylon bushings.
3. Install new rubber frame bushings. Order bushing P/N 31-0442 separately.
4. Install the Nylon stabilizer bushings in the rubber bushings with the eccentric holes aligned.
5. Replace the swing arm mounting brackets. Torque screws to 34-42 FT.-LBS.
6. Replace the swing arm shaft, cup washer and nut. Torque nut to 40-45 FT.-LBS.



**Nylatron Swing Arm Bushing Set fits 1982-02 FLT.**

**VT No. Price**  
**44-0671 \$132.21**





# 5-Speed Kicker Kit

5/6 Speed Kick Start Kit features slim profile design. Push rod modification may be required. Order kick arm and pedal separately. Chrome.

VT No.	Item	Price
17-0858	Kit	\$402.57
17-0857	Gear Set	\$58.17
17-0989	Clutch Kick Gear	\$32.67
17-0869	Longer Kick Shaft	\$49.83



## 5-Speed Transmission Kick Start Kit

VT Part No. 17-0858

### Installation Instructions

1. Drain oil from the transmission. Remove the clutch release cover.
2. Disconnect the clutch cable from the coupling in the clutch release cover, as outlined in the H-D manual. Remove the cable from the cover.
3. Remove the thrust bearing from the clutch push rod extension and install it on the push rod extension supplied in the kick start kit.
4. Remove the main shaft nut and thrust washer.
5. Clean the oil off the clutch gear and main shaft threads. Install the clutch gear on the main shaft with Loctite and tighten.
6. Install the clutch push rod extension in the main shaft.
7. Disassemble the clutch release cover assembly and screw the clutch cable into the cover and tighten.
8. There is an optimal three ball ramp available if more clutch travel is desired. A longer kick shaft is available if required.
9. Connect the clutch cable end to the coupling and install it with the three balls and the outer ball ramp. Reassemble the clutch release cover as originally received. The kick arm return spring should have one turn wind up when the crank gear is installed. It is recommended the screws be installed with Loctite.
10. Install the kick start clutch release cover using the screws and gasket provided.
11. Fill the transmission with oil. The pipe hole at the rear of the cover is used to determine the oil level. Install the fill plug.
12. Adjust the clutch, as outlined in the H-D manual, by first turning the clutch cable adjuster until there is a large amount of free play at the clutch level. Next, remove the clutch inspection cover and loosen the clutch adjuster screw jam nut. Turn the adjuster screw in while working the clutch hand lever so as to seat the balls in the low point of the ramps. Back the adjuster out an additional 1/2 turn. Tighten the jam nut while holding the screw from turning. Turn the cable adjuster until there is 1/16 inch free play at the cable ferrule. Work the hand lever several times and readjust if needed. Replace the inspection cover.
13. Install the kick arm and pedal, available separately.

### Parts List:

1 Clutch release cover assembly	1 Cover gasket
1 Clutch gear	1 Retaining ring
1 Push rod extension	
4 1/4-20NC x 2-1/4 socket head screw	
2 1/4-20NC x 3 socket head cap screw	





# PERFORMANCE AIR CLEANERS

## 8" Chrome Velocity Air Cleaner



34-1281 Installed

VT No.	Kits
34-0807	1993-up BT
34-1281	1991-up XL



8" Air Cleaner includes built-in breather bracket. 52 square inches of filter space fits EV and TC-88 1993-up with S&S Carb.

## Sifton Air Cleaners



34-0662 Installed

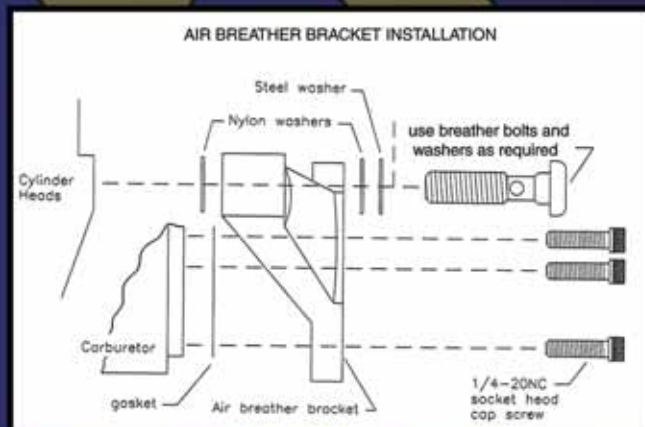


34-0705 Installed



Front and Rear Breather Passages

**Sifton Carb, Bracket No Hoses Needed!**



Chrome Billet Carb Bracket Kits feature integral breather passage to air intake. Kits include breather bolts and hardware. For use on 1993-up EV, TC-88 and 1991-up XL's as noted. Allows mounting of CV or S&S pattern air cleaners or velocity stacks to model/carb types as noted.

- Utilize the integral carb/EFI support with built-in breather passage to the front and rear heads.
- Sealed full diameter breather bolts secure the bracket in place to eliminate leaks.
- No external holes or oil fittings required.
- 8" Hi-flow filter will accept the 8" steel cover or dome to cover the 20% larger filter.
- Replacement bolts and hardware available.
- Multiple bolt patterns allow use of a variety of air cleaners and back plates.

VT No.	Model/Carb Type	Note
34-0661	BT CV	CV
34-0662	BT S&S "E"	CV
34-1179	BT S&S "E"	S&S "E"
34-0445	BT 42/45/48 Mikuni	CV
34-0667	XL CV	S&S "E"
34-0705	BT EFI	CV
34-1185	BT S&S "E"	S&S
34-1505	BT & CV & EFI	CV/S&S
34-1510	BT S&S "E"	CV/S&S





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VT No.  
48-0865 Catazine, 10 Pack  
48-0105 Catazine Rack



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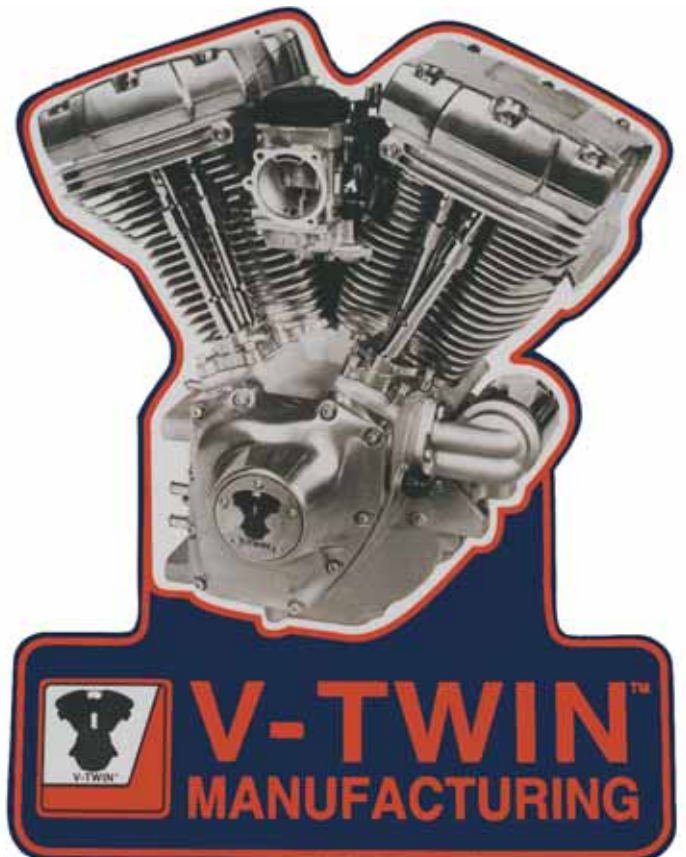
48-0030 1340cc

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