Section 18

Twin Cam .......................... 1 to 11
Bottom End ......................... 12 to 23
Top End ............................ 24 to 27
Transmission ...................... 28 to 32
Chassis .............................. 33 to 37
General ............................. 38 to 42

JIMS Wheel Bearing Tool Support Plate
Accurate and precise bearing removal and installation on cast wheels without risk of damage. Attaches to the brake rotor mounting holes and is used in conjunction with JIMS #31587 or OEM wheel bearing puller. Fits 14-on cast FL wheels, 10-on CVO and open accessory hubs with 5 or 7 lug rotors.
31041

Jims 25MM Wheel Bearing Remover/Installer
This tool is used to remove & install 25mm, ABS and non-ABS, wheel bearings on most of the 2007-on models using a 25mm bearing. This tool must be used with the earlier Jims wheel bearing installer/remover tool (Jims 1042)
31034

Jims Rear Wheel Compensator Bearing Remover/Installer Tool
Use to remove and install a new compensator ball bearing, after the rear pulley is removed from the rear wheel drive bowl. This bearing is now positioned with the rubber isolators in the drive bowl. the tool will center and guide the installer plug with the center of the pulley for safe bearing installation. Use on all 2008-on XL, FL and V-Rod.
31449
Twin Cam Tools

Jims Late Model Twin Cam Case Splitter Tool
Use this tool to “break” the case sealant by pushing apart both case halves. Flywheels will be pushed from the left case. Not for use with impact tools. Use on all Twin Cam, 2006-on Dyna and all 2007-on FL and FXST.

Jims Twin Cam Engine Stand
Powder coated, steel stand will simplify engine repairs.

31519  All Twin Cam (not FXST 2000)

Jims Twin Cam Beta Engine Stand
Steel, powder coated stand uses special riser mounts to clear the rear balancer housing of the 2000-on Twin Cam B case.

31917

Jims Twin Cam Timken Case Bearing Conversion Tool
This tool is a must for the big cubic inch late model Twin Cam engine builder. It may also be used to replace bearing for stock 88” or 96” engines. Utilizing the special Jims precision insert, it is designed to easily and accurately convert the left side crankshaft roller bearing (24604-00D) to the more durable Timken bearing (9028). This insert is manufactured from aluminum that is several times stronger than the aluminum case material the standard bearing rides in. Conversion can be performed with normal hand tools, a hand drill, and a two ton press.

The tool includes:
- steel bearing insert held to under .0002” total indicator reading
- a press plate that will hold the bearing insert inline with the case bearing bore at the time it is being pressed into the case
- drill bits to drill oil feed and return holes and hardware.

31555  Use on Twin Cam engines 2003-on. Must also use tool #31558 for race installation. Order bearing inserts and Timken bearings separately.

JIMS Rolling Buddy
Rubber mounted H-D V-twins use the engine as a structural part of the chassis. When the engine is removed, it becomes impossible to roll the bike. Rolling buddy plates are designed to take place of the engine and bolt the chassis back together. When installed the bike can easily be rolled.

PCP  Application
31921  Evo Touring, Dyna & FXR
31922  1999-06 Touring & 1999-05 Dyna
31923  2007-on Touring & 2006-on Dyna
Jims Inner Bearing Remover
Use to remove bearing assembly easily without damage to the crankcase. Tool will also keep pin rollers from falling into the case.
31513 All Twin Cam

Jims Cam Assembly Tool
Use to hold both cams in an upright position while lowering the cam support plate over both guides and cam journal guides. Features non marring material that will not damage cam surfaces. Use on all Twin Cam, 2006-on Dyna and all 2007-on FL and FXST.
31502

Jims Cam Inner Bearing Installer
Use to install the two inner cam needle bearings on Twin Cams. It aligns to the shaft bores for a precision press fit
31512 All Twin Cam

Jims Camshaft/Crankshaft Locking Tool
Locks the gear teeth on the TC88 model engine.
31517

Jims Camshaft Remover and Installer
Use to remove and replace front and rear camshafts and ball bearings in Twin Cams. It provides the precision alignment of the camshaft to ensure a smooth press in and out of the support plate.
31511 All Twin Cam

Jims Cam Chain Tensioner
Use to unload the pressure on the primary and secondary chain tensioners to assemble and disassemble cams. Will also check spring loads on chain tensioners.
31516 All Twin Cam

Jims Timken Bearing/Race Installer Adapter Kit
Will upgrade Jims# 97222-55 bearing installer tool to work on the fine spline Twin Cam sprocket shafts. Designed to either install (8028) Timken bearing or the roller bearing race assembly (24004-03) onto the sprocket shaft. Use on BT 2006-on FXD or 2007-on FXST, FL. Also use on Jims 120" engines
31910

Jims Inner Cam Bearing Installer
Use to install the two inner cam needle bearings on Twin Cams. It aligns to the shaft bores for a precision press fit
31512 All Twin Cam

Jims Cam Bearing Puller
Use to remove the bearing from camshaft.
31514 All Twin Cam
Twin Cam Tools

Jims Crankshaft Bearing Tool
Use to remove and replace right crankcase bearing. Press bearing in and out straight without damage to the case.
31509  All TC 88A 1999-02
31544  TC 2003-on “A” & Beta l/s case

Jims Crankshaft Bushing Tool
Use to remove and install crankshaft bushing in the support plate on TC-88.
31515

Jims TC Crankshaft Bearing Installer and Remover
Designed to protect expensive engine cases by using a specially designed support block to remove or install cam side crankshaft bearing. Use press fit lube on case and bearings while installing.
31565

Jims Sprocket Shaft/Flywheel Holder
Use to hold flywheel assembly in vise, for assisting assembly or disassembly with or without the left case attached. Can also be used to check case clearance on stroker flywheels. Use on all Twin Cam, 2006-on Dyna and all 2007-on FL and FXST.
31018

Jims Rod Holder
Keeps connecting rods in place and eliminates twisting or bending of the connecting rod while reaming or honing the wrist pin bushings. Use on all Twin Cam A & B models.
31520

Jims Crankshaft Guide
Use to spread crankcase pinion bearing rollers while reassembling right side engine case on to flywheel assembly. 31566  All Twin Cam 88 1999-on

Jims Bearing and Race Puller Tool
This tool is designed to remove the flywheel sprocket shaft inner bearing race with the supplied Jims T-bar and hardware. For use on Twin Cams 2003-on. Use to remove Timken bearing #9028 or #9029 for 1955-on models and Jims 120” engines. Use to remove the flywheel sprocket shaft inner bearing race or the Timken bearing. Also removes pinion shaft inner bearing race on 1954-on Sportster, including all Buells. Use to correctly remove press fit transmission gears and bearings from input and output shaft on all V-ROD 2002-on.
31903

Jims Connecting Rod Bushing Tool
Use to remove and replace wrist pin bushings in Twin Cam without removing connecting rod from crankcases.
31508
Jims Beta Balancer Inner Bearing Remover/Installer
Accurately and safely install or remove the inner balancer bearing mounted in the left engine case. Designed for early or late Beta case work done on a bench without an arbour press. Use on all 2000-on Twin Cam B models.
31542

Jims Beta Engine Hydraulic Balancer Retainer Tool
Retainers hold the hydraulic chain tensioners in place when repairing Beta engines. Use on all 2000-on Twin Cam B models.
31543

Jims Outer Balancer Bearing Installer/Remover
Removes and installs the outboard balancer bearing on 96” and 110” “B” Softail engine’s chain guard support plate. Use on all 2007-on Softails.
31447

Jims Balancer Shaft Alignment Tool
This tool takes the guess work out of setting up your sprocket and chain alignment on a “B” Twin Cam Softail engine. Treat this tool with great care, just as you would treat a micrometer.
31584 2000-on Twin Cam “B” Softail models

Jims Outer Balancer Bearing Installer and Remover Tool
This tool removes and installs the outboard balancer bearing on the new 96” & 110” “B” Softail engine chain guide support plate. Use on all Softails 2007-on
31581

Jims Balancer Shaft and Bearing Installer Tool
This tool was designed to align and safely install a new balancer bearing and counter-balancer shaft into the Twin Cam 96” or 110” “B” Softail engine case. For removal of the balancer shaft from the engine case use Jims tool #31905.
31907 Use on 2007-on FXST

Jims Balancer Shaft Inner/Outer Bearing Remover and Installer
This tool will pull the bearings out of “B” motor cases in one easy motion preventing any damage to the bearing bores. The installing portion of this tool is designed to push on the outer diameter of bearings preventing any damage to the bearing or its bore. Includes thrust bearing for use on TC88B models 2000-on. Use installer portion with tool #31438.
31585

Jims Balancer Shaft Removal Tool
This tool is designed to remove both front and rear counter-balancer shaft bearing assembly from the left engine case of the 96” and 110” Beta engines.
31905 Use on Softail 2007-on

Jims Balancer Shaft Retention Pins
Use this tool to secure the engine balancers on TC88 “B” engines when servicing the flywheel assembly. This tool locks into the balancer’s sprocket pin holes to prevent the balancer from turning out of sync with the flywheel.
31492 2000-on TC “B” model Softails
Twin Cam Tools

S&S Crankcase/Cylinder Boring Plate Kit
Is designed for boring stock TC-88 engines to accept S&S Super Sidewinder 4" and 41/8" bore cylinders. A spacer included with the kit allows the cases to be bored without removing the cylinder studs. 530035

Jims Wrist Pin Bushing Reamer
Use with rods in or out of motor. Use to ream wrist pins to HD specifications. Reamers are made to exact tolerances and piloted to locate from the I.D. of the newly replaced wrist pin bushing. 31548 Twin Cam

Jims Wrist Pin Remover
Easy to use tool requires only one person to remove wrist pin. 31510 Use on all models

Jims Cylinder Torque Plates
These plates simulate stress conditions when boring and honing. Correct torquing sequence is lasered on surface. Can be used on Screamin Eagle big bore cylinders. 31518 All Twin Cam to 4"

Jims Cylinder Tools

Jims Compression Release Valve Tool
Use this tool for machining all TC 1999-on heads for preparing heads to install Jim’s compression release valves. Install on the front or rear head, with or without the valves installed. Simply drill, spot face, tap and install compression release valves. 31586

Jims Engine Dipstick Socket
Ingenious tool allows for the safe removal of the engine oil level dipstick that is located close to the scorching hot exhaust pipe on a Bagger or Dyna. Features a square hole for 3/8” ratchet fitment, 7/8” hex for wrench fitment and a cutout for clearance around the exhaust pipe. Made from non marring Delrio for durability and heat resistance. 31040

Jims Transmission Case Shifter Shaft Seal Installer
Precise and effortless installation of the shifter shaft seal. Align, center and install the shifter seal to the right depth on all EVO and Twin Cam Big Twins. 31036 Installs OEM 37101-84B seal on 2006-on 6-speed Cruise Drive transmissions
31039 Installs OEM 12045 on all 1980-99 EVO BT or 1999 Twin Cam 5 speed, to 2006 FXST, FLH and to 2005 FXD
Jims Trans Trap Door Puller and Bearing Tool
This tool will remove and replace OEM 8998 or 8992 transmission door bearings. It can also be used to remove the complete transmission assembly. Door bearings must be replaced if using this tool to pull door off case. Use on all 5 speed BT and aftermarket 6 speed 1980-06 except 2006 Dyna models.
31915

Jims Right Side Drive Trap Door Puller
This tool will remove the transmission door for service work without removing the complete transmission assembly. Use in all Jims right side drive transmissions and other aftermarket right side drive transmissions.
31027

Jims Main Drive Gear Seal Installer Tool
Use to install the main drive gear oil seal (12077) to the proper depth with transmission assembled. Includes a protective sleeve for seal. Works without removing transmission from frame. The sleeve can also be used when installing transmission assembly by protecting the main drive gear inner bearings.
31906 Use on 2006-on present FXD & 2007-on FL, FXST

Jims Cruise Drive 6 Speed Trans Main Shaft Pulley Locknut Socket Tool
Use to remove the larger 2-¼" hex nut from the end of the main drive gear, which secures the rear drive trans pulley. Thread the inner support collar to the end of the mainshaft, place the socket over the collar with your favorite ½" drive tool and untread locknut. Use on all 2006-on Dyna and all 2007-on FLHT and FXST models.
31038

Jims Twin Cam Engine and Trans Plug Kit
Indespensible kit for engine and transmission rebuilders. Plug the holes on all engine and trans when going through the steps of the rebuilding process. Helps keep dust, dirt and from case openings. Use on any 1999-on Twin Cam engine and transmission.
31918

www.prestoncycle.com
Twin Cam Tools

Jims Cruise Drive 6 Speed Transmission Door Remover Tool
Use this tool to pull the complete door with gears and shafts from the transmission. You will not need to remove the trap door by prying or hitting with a hammer. Prepare the trans for disassembly, bolt this tool to the outside of the door and follow the included instructions. Can be used with transmission in frame. Use on all 2006-on Dyna and 2007-on FLHT and FXST models.
31552

Jims Cruise Drive 6 Speed Trap Door Bearing Remover/Installer Tool
Innovative tool will accurately install a lubed ball bearing into the transmission trap door. Also Use on all 2006-on Dyna and 2007-removes bearing without error and can performed on a work bench, no need for an arbor press. Use on all Twin Cam 6-speed Cruise Drive models, 2006 Dyna and all 2007-on TC models.
31561

Jims Cruise Drive Late 6 Speed Trans Main Case Seal Installer
6 Speed main case bearings are of such high precision that you must be gentle when working in or around them. This driver style seal installer does not push or pull and installs the main seal to the correct depth, without applying any stress to the bearings or seals. Use on all 6-speed Cruise Drive 2006-on models.
31037
Jims Cruise Drive 6 Speed Maindrive Gear Bearing Remover/Installer Kit
This is a complete kit for servicing the main drive gear or the main bearing on Cruise Drive 6 Speed transmission. Precision tool removes and installs both parts correctly without damaging the case. Use on all 6-speed Cruise Drive 2006-on models, 2006 Dyna and all 2007-on FL and FXST.
31916

Jims Cruise Drive 6 Speed Main Drive Gear Remover Tool
This tool removes the main drive gear from the main bearing correctly while in the transmission case. This eliminates the need of an arbour press and the risk of case damage. Use on all Twin Cam 6-speed Cruise Drive models, 2006 Dyna and all 2007-on TC models.
31570

Jims Cruise Drive 6-Speed Main Drive Gear, Bearing and Seal Installer Tool
Use this tool to safely install new or newly repaired main drive gear. This job can be performed with hand tools while the transmission is still in the frame. Holds the main drive square to its bearing bore, eliminating any marring of gear or bearings. Use on all 2006-on Dyna and all 2007-on FL and FXST.
31462

Jims Cruise Drive Shift Shaft Remover/Installer
Remove and install OEM 35186-06 shifter shaft sleeve without removing the transmission case from the chassis. This tool installs sleeve to the correct depth in case without error or damage. Use on all 2006-on 6 Speed Cruise Drive models.
31048

Jims Cruise Drive 6 Speed Maindrive Gear Installer
Use this tool to safely install a new or newly repaired main drive gear. This job can be performed with hand tools while the transmission is still in the frame. Holds the main drive square to its bearing bore, eliminating any marring of gear or bearings. Use on all 2006-on Dyna and all 2007-on FL and FXST.
31028
Twin Cam Tools

Jims Ignition Switch Housing Alignment Tool
This tool will easily align the ignition switch housing as the retaining screws are being torqued. This gives the ignition knob the alignment it needs to help extend the life of the ignition switch housing. Use on all 2003-on FL Touring models that have an OEM #61530-03B.
31422

Jims Thread Chasers for Spark Plug and Oxygen Sensors
Use to remove any I.D. thread damage that may have come from either exhaust carbon or the mating components, both in aluminum or steel.

<table>
<thead>
<tr>
<th>PCP</th>
<th>Size</th>
<th>Application</th>
<th>Fitment</th>
</tr>
</thead>
<tbody>
<tr>
<td>31023</td>
<td>12mm x 1.25</td>
<td>Spark plug</td>
<td>1999-on TC, 1986-on XL and XR, Screamin’ Eagle Evo heads and 2002-on VRSC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>O2 Sensor</td>
<td>2010-on FLH sensor in exhaust systems</td>
</tr>
<tr>
<td>31024</td>
<td>18mm</td>
<td>O2 Sensor</td>
<td>2006-2009 FLH, all 2006-on FXD, FXST, XL and V-Rod sensor in exhaust systems</td>
</tr>
<tr>
<td>31025</td>
<td>14mm &amp; 18mm</td>
<td>Spark Plug</td>
<td>Double-ended tool used with 13/16” socket for all 14mm and 18mm spark plug holes</td>
</tr>
</tbody>
</table>

Jims Starter Ring Gear Rivet Fixture Tool
This tool is designed to remove the starter ring gear rivets from BT clutch shells to install Jims #639 and #640 or equivalent performance starter ring gears.
31902 Use on 1990-06 FL, FXST and 1990-05 FXR, FXD

Jims 49mm Fork Seal and Dust Shield Installer Tool
This tool is designed to install the lower leg 49mm fork seal squarely into the bore without damaging the seal lip surface. Also used to install the dust shield cover. It is a two-piece design to aid in some assembly applications.
31900 Use on all FXD 2006-on and all VROD 2002-on (except inverted fork models)

Jims Dyna Ignition Switch & Fork Lock Remover/Installer
This tool locates on the ignition switch face nut that holds the switch in place on the frame, letting you remove or install this switch correctly. Tool has a 3/8” drive access hole. Use on 2006-on Dyna models.
31415

Jims Oxygen Sensor Socket Tool
This tool is used to remove or install the oxygen sensor on all closed loop fuel injected H-D models. Socket has a 3/8” drive receiver or can be used with a 7/8” wrench. Socket will withstand up to 125 ft/lbs of torque.
31912 Use on all EFI models 2006-on
Twin Cam Tools

Jims Fuel Pump Retainer Remover/Installer
Use to safely remove or install the retaining ring that holds the fuel pump to avoid developing a fuel leak. Allows for quick and easy service of fuel filter and other fuel related parts. Use on all 2008-on FL models, with new fuel tank. 31421

Valve Spring Compressor
For use on conical valve springs. Add this collar to your JIMS valve spring compressor tool #31471 to remove and replace valves and conical (Bee Hive) springs (OEM 18245-02). A must have tool for safe valve work. Use on all 2005-on BT except SE models and all 2004-on XL and Buell models. 31441

Inner Cam Bearing Tool
Use this four piece tool to safely install inner cam bearings to proper depth without damaging the bearings.
- Fits 1999-06 FXD, 1999-06 FLT, FLST and FXST 26071

Jims Inner Primary Cover Bearing and Seal Installer/Remover Tool
Designed to safely remove and install the inner primary bearing (9135) without any damage to the new bearing. This is done by pushing on the outer perimeter of the bearing. Also removes and installs inner primary seal (12052A). This is the bearing and seal that the transmission main shaft passes through. 31901 Use on late 1984-06 FXST, 1985-06 FL, 1985-06 FXR, FXD

Jims Late Sealed Wheel Bearing Remover & Installer Kit
Use to remove and install late new style sealed wheel bearings without damaging the wheel. 31587 2000-on TC, XL and Buell models

Jims 25mm Wheel Bearing Puller Tool
This tool is used to remove the front 25mm HD wheel bearings on most of the 2007-on Softail models. This tool must be used with Jims wheel bearing installer/ remover tool #31587. 31598 Use on 2007-on front wheels of FXST, FLSTC, FXSTB, FXSTD, FLSTN, FXSTC

www.prestoncycle.com
Bottom End Tools

Jims “Taller” BT Engine Stand
Powder coated stand is 1-1/2” taller to fit all BT cases for engine repair. Features notch for crankcase breather fitting.
31431 BT single cam only includes S&S and aftermarket motors

Jims End Play Gauge Indicator Tool
Features H-D thread pitch for mounting to cases when checking end play on engines or transmissions. Comes with ¼"-20 and 5/16"-18 threads on the mounting rod. Can be used in any position for checking cam, shift drum, rocker or breather gear end play, as well as fly-wheel, mainshaft, or starter gear runout. For use on all Big Twin and Sportster.
31540

Jims XL Engine Stand
Powder coated, steel bench stand simplifies engine overhaul.
31432 XL 1957-on, Buell 1987-on

Jims Cam Cover Holding Tool
Use tool to hold cam cover for removing and installing bushings. Clamps in vice or mill. Holds cam cover flat and keeps it from being scratched.
31423 BT 1970-99 (1041-TC)

Motor Stands
PCP Fits
2831 Motor Stand Big Twin 1941-99 (96815-46)
Bottom End Tools

Jims Cam Bearing Installer
Use tool for inner Torrington bearings 9058 on BT 1958-99 models.
31535

Trock Cam Bearing Installer
Will install OEM 9028 Big Twin Torrington bearing.
26093

Jims Cam Bearing Tool
For use with handle no. 31438 to install inner cam bearing. Handle slips through the outer cam bushing for alignment. All Jims bearing installers are designed with an angle to apply all the pushing force to the extreme outer diameter of the bearing.
31485 BT 1958-on single cam only all aftermarket and S&S motors
31486 XL 1957-90, Buell 1987-90

Race and Bearing Install Tool Handle
Handle slips through the outer cam bushing for alignment. Approx. 12” long.
31438

Cam Cover Pullers
Easily remove BT 1970-99 cam covers without prying on gasket surfaces.
5863 Preston’s puller

Jims Cam Bearing Puller
Used to remove inner cam bearing, caged Torrington, without splitting cases while preventing rollers from coming out during removal.
31411 BT 1958-99 (95760-TB)
31489 XL 1957-90 (95760-XL)
31513 Twin Cam 1999-06 (1279)

Jims Cam Gear Remover BT 1970-99
Use to remove the cam gear from the camshaft on BT models. This precision tool acts as a stable base to keep the camshaft perpendicular to the press. A 3/8” ball bearing is included to protect the camshaft’s end while pressing off the gear. For use with Jims cam gear alignment tool.
31589 1939-99 BT camshafts with pressed on camshaft gears
31538 1970-99 Single cam gear alignment tool

Preston’s Cam Shaft Needle Bearing Installing Rods
Used to install cam shaft needle bearings on both Big Twins and XL’s. Tool for all Big Twins replaces OEM #97272-60. Tool for all XL’s replaces OEM #97273-60.
5828 Big Twins
5829 All XL’s

Preston’s Drive Handle
Replaces #33416 to drive wheel race, crank bearing race and cam needle installers.
5861

www.prestoncycle.com
Bottom End Tools

Jims Cam Seal Installer / Remover
Remove and install cam seal without removing the cam cover. Just mount tool in cover, screw in the two removing screws, turn center and the cam seal comes out. Can also be used to remove cam cover from case. Use on 1970-99 Big Twin single cam models.
31533

Jims Cam Bushing Line Reamer Tool
Use to line ream cam cover bushing to size from inner cam bearing for a true centerline between the two dimensions. Finish size will be about .0008" to .0015" over the cam journal.
31408 BT 1970-on single cam only including S&S and aftermarket motors

Jims Cam Bearing and Bushing Alignment Tool
Use to check the alignment of cam bearing to cam cover to well within .0003" of centerline.
31536 BT 1970-on single cam only including S&S and aftermarket motors

Jims Cam Seal Installer / Remover
Remove and install cam seal without removing the cam cover. Just mount tool in cover, screw in the two removing screws, turn center and the cam seal comes out. Can also be used to remove cam cover from case. Use on 1970-99 Big Twin single cam models.
31533

Jims Cam Bushing Line Reamer Tool
Use to line ream cam cover bushing to size from inner cam bearing for a true centerline between the two dimensions. Finish size will be about .0008" to .0015" over the cam journal.
31408 BT 1970-on single cam only including S&S and aftermarket motors

Jims Cam Bearing and Bushing Alignment Tool
Use to check the alignment of cam bearing to cam cover to well within .0003" of centerline.
31536 BT 1970-on single cam only including S&S and aftermarket motors

Jims Cam and Pinion Bushing Drill Jigs
Allow the installation and drilling of a dowel pin to factory location supplied with #31 drill.
PCP Type
31401 Cam BT 1970-on (25581-70)
31402 Pinion BT 1954-92 (25582-54, 25582-73)
31494 Pinion BT 1993-on (25582-93)
31403 #2 Cam XL 1957-90 (25588-57)
31495 No. 31 drill bit for all model jigs above
31590 Staking pins for above (10 pk)
Jims Pinion Bushing Line Reamer Tool
Use to line pinion bushing in cam cover from right case race.
31491 BT 1954-on single cam only including S&S and aftermarket motors and also XL idler gear bushing

Eastern’s Bushing Reaming Tools
Big Twins and Sportster (pinion bushing in cam cover)
PCP Application
2844 XL 1977-on (94812-80A)
26091 XL 1986-on (94812-89)

Cam Bushing Reamers (cam bushing in cam cover)
26115 BT 1970-98 (94802-70)

Preston’s Pinion Bushing Tool
Positions pinion bushing in cam cover on all 1970-98 Big Twins to correct depth. 5862

Jims Pinion Gear Installer and Puller
Use to remove pinion gear on BT 1939-89. 31479

Jims Pinion Gear Nut Socket
Use to remove or secure pinion gear nut to pinion gear shaft. 1/2” drive. Use with locker tool #31541.
31461 BT 1955-99

Jims Pinion Bushing Puller
Use to remove pinion bushing from cam cover in one easy operation. Use with PCP# 31423, cam cover holder.
(95760-TP).
31412 BT 1954-99

Jims Pinion Gear Lock Tool
For applying torque to the pinion nut on BT1954-99 models. Use Jims tool #31461 to tighten pinion nut.
31541

Preston’s Gear Shaft Nut Socket Wrench
Fits the pinion gear nut which secures pinion to gear shaft 1955-89. OEM 94555-55.
2826
Bottom End Tools

Jims Crank Assembly Removing Tool
Use to press flywheels from cases. Will also press cases apart and break sealant bond. Some case pressing will require a hard cap # 31553.
31488 BT 1955-on including TC, S&S and aftermarket motors

Jims Sprocket Shaft Holder
Use to hold the flywheel assembly in vise with or without left case attached.
31556 BT 1955-on includes TC-88, S&S and aftermarket motors

Jims Sprocket Shaft Installing Tool
PCP Fits
2834 Sportster 1957-on (97081-54)
2835 Big Twins 1955-on (97225-55)
31483 As above, Jim’s Machining

Jims Sprocket Shaft Protector
Hardened end cap protects the shaft when using a press.
31553

Jims Sprocket Shaft Bearing Race Tool
Use to remove and install Timken bearing race from motor case. Use with handle #31438.
31459 BT 1969-on including TC, S&S and aftermarket motors

Jims Tool Driver Spacer
Spacer applies outward force on the bearing race tool to grip the race better, allowing easier removal of race. Use with driver tools #31437, #31459, etc...
31557 Use on all bearing race tools

Jims Race and Bearing Install Tool Handle
Approximately 12” long. Use with tool #31437, 31449, 31460, 31485 & 31486
31438
Jims XL Timken Bearing Puller
Tool removes the inner Timken bearing from sprocket shaft without removing the shaft from flywheels.
31424  XL 1977-on, Buell 1987-on

Jims Big Twin Timken Bearing Remover
Use to remove the sprocket shaft Timken bearing on BT 1986-on with an integral sprocket shaft.
31522  BT 1955-on includes TC-88

Jims Sprocket Shaft Seal Installer
Use this kit to install the sprocket shaft seal to the proper depth and also for holding the seal square for a no leak fit. Driver handle sold separately.
31554  XL 1974-03

Jims Motor Sprocket Shaft Seal Install Tool
Use to press oil seal over sprocket shaft into case, use with tool #31483
31458  BT 1969-on including TC, S&S and aftermarket motors

Jims Sprocket Shaft Bearing Installer Tool
Use to install crankshaft assembly into crankcase Timken bearing.
31483  BT 1955-on including TC, S&S and aftermarket motors

Jims Snap Ring Installer and Remover
Use to remove and install the Timken outer race snap ring in BT 1969-on cases. Especially good for use in cases without inserts and to prevent aluminum gouging in 1990-on cases.
31559  BT 1969-on including Twin Cam 88, aftermarket and S&S motors

Jims Sprocket Shaft Bearing Installation Tool
Use to install crankshaft assembly into crankcase Timken bearings. Use with # 31480. Use tool #31453 to install the bearing until tool runs out of threads, then install #31454 to push the bearing on the rest of the way. Fits 1977-on XL and 1987-on Buell.
31453  2.060" long
31454  2.500" long

S&S Anti-Rotation Bracket
Bracket slides over the sprocket shaft splines of BT engines and bolts to one of the primary bolt holes of the crankcase to keep the crank from rotating. Great for installing pistons and cylinders.
509870

www.prestoncycle.com
Bottom End Tools

S&S HD Flywheel Balancing Kit
S&S master flywheel balancing kit enables the average repair shop to perform balance jobs on most any O.H.V. BT and XL 1957-99. This includes all V2 1340, 883, 1100 and 1200 engines.
530011 Triple beam gram scales

Degree Wheel Kit
530020

Flywheel Spreader Tool
Spreads wheels while truing for BT and XL.
26144

Jims BT Engine Rotator-Flywheel Sprocket Shaft Tool
Use to rotate the flywheel assembly when doing pushrod adjustments, building big inch engines, or when checking operating clearances. Also can hold the flywheel assembly from rotating when torquing the cam drive sprockets retention bolts on Twin Cams or pinion shaft nut on single cam models.

Features a long socket making it easier to use without the use of 1/2” drive extension on your 1/2” driver. For engine bench work Jims recommends the engine be bolted into an engine stand. Use stand #31431 for Shovel, Pan and Evo engines. Use #31519 stand for all “A” engines, early and late 1999-2007 Twin Cam FL, FXD. Use Jims stand #1668 for all 2000-2006 FXST.

IMPORTANT: Not for pneumatic or electric impact. This tool is only guaranteed for use with hand drivers.

PCP Application
31908 BT 1955-06 except 2006 FXD. Use on 1999-05 FXD
31909 Use 2006-on FXD and 2007-on FXST, FL

S&S HD Flywheel Balancing Kit
S&S master flywheel balancing kit enables the average repair shop to perform balance jobs on most any O.H.V. BT and XL 1957-99. This includes all V2 1340, 883, 1100 and 1200 engines.
530011 Triple beam gram scales

Jims Flywheel Runout Inspection Gauge
Check flywheel runout of the pinion shaft while assembled in engine case. Also checks the amount of gear lash on gear driven cams used in some Twin Cam engines. Use on 1984-on Big Twin, Evo and Twin Cam.
31521

Jims Flywheel Sockets
Heat treated, low profile sockets provide 100% nut to socket and drive end contact. Machined flat at the receiving end to prevent rounding off the nut.

BT Late 1983-on Single Cam Only
Use to install or remove crank pin nut no. 23969-83.
31416 1-1/2” x 1/2” drive

BT Late 1981-89
Use to install or remove pinion shaft nut no. 24016-80.
31417 1-1/4” x 1/2” drive
31503 1-1/4” x 3/4” drive

BT 1972-on Single Cam Only
Use to install or remove sprocket shaft nut no. 24017-80.
31418 1-5/8” x 3/4” drive

XL 1981-on and Buell 1987-on
Use to remove or install crank pin nut no. 23901-81.
31419 1-3/8” x 3/4” drive
31504 1-3/8” x 3/4” drive
Jims Rod Race Tool
Supports both sides of rod as races are removed or replaced, minimizing the possibility of distortion to female rod or race.
31428  All BT single cam only includes S&S and aftermarket motors

Jims Rod Alignment Tool
Use to check rod straightness without removing rods from case. The alignment tool is 4-1/2” long.
31436  BT single cam only, including S&S and aftermarket motors

Preston’s Rod Clamping Tool
Holds connecting rod when fitting piston pin bushing on all 74 & 80 model Twins.
5876

Jims Timken Bearing Simulator
This tool allows quick and easy removal and replacement of flywheel assembly in the left side crankcase when checking clearances before final assembly. For use on BT 1970-on models including Twin Cam 88, aftermarket and S&S motors.
31560

Jims Rod Lapping Set
Arbor assembly includes 1-1/2” and 1-5/8” laps.
31473  All BT single cam only includes S&S and aftermarket motors
31474  1-1/2” lap head only
31475  1-5/8” lap head only

Connecting Rod Checking Pin
This pin is used to check connecting rod alignment after rods have been installed in flywheels and lower end is assembled. Pin is 4-1/2 inches long and .7920” to .7923” in diameter, hardened to R.C. 45 to 50. Pin fits both Sportster and Big Twin rods.
530002

Jims W/Pin Bushing Reamer
Use with rods in or out of motor. Use to ream wrist pin bushings to HD specifications.
31549  BT with late diameter size wrist pins 1973-99 (includes all aftermarket motors)
31550  XL 1957-on, Buell 1987-on

Jims Lap Head 1-1/2”
Used in rod lapping set PCP #31473.
31474  96740-36-4
Bottom End Tools

Eastern Crankcase Lapping Tool
Aligns left and right main bearing races as well as lapping to size on all Sportsters, & Big Twins.
- 2849 Complete tool
- 2850 Replacement Lap Head 1-1/2
- 2851 Replacement Lap Head 1-3/8
- 2852 Replacement Lap Head 1-3/4

Eastern Lapping Tools
Use for precision alignment of engine and transmission shafts. Engine unit replaces 96710-40 to lap right and left crankcase races for oversize bearings. Trans tool insures proper fitting of oversize rollers with mainshaft races on Big Twins and Sportsters. A dual purpose “Combo Lap” for both engine and trans use also available. We stock the replacement cutters for both tools.
- 2849 Engine Cpt.
- 5875 Combo Cpt.

Preston’s Rod Race Tool
Supports both sides of rod as races are removed or replaced minimizing the possibility of distortion to female rod or race.
- 2857 All Twins

Eastern Rod Lap Tool
Big Twin and Sportster. This tool is for lapping connecting rod bearing races when fitting new rod rollers.
- 2838 Tool with 2 cast iron laps
- 2839 Lap head only 1-1/2"
- 2840 Lap head only 1-5/8"
- 26001 Spanner wrench

Clover Oil Based Lapping Compound
16 Oz. can. Use on valves for a good seal and with all Jims lapping tools. Available in 2 grits- 1 for roughing-in and 1 for finish work.
- 31591 Coarse 220 grit (micron finish of 32)
- 31592 Fine 320 grit (micron finish of 16)
Jims Twin Case Lap Tool
Jims case lap is guided on both sides of the pinion bearing race. This additional support on the cam gear side of the bearing race is achieved by means of a bolt on base plate that precisely locates a drill bushing in which the lap turns. Instead of guiding only from the left side, Jims case lap uses a special ground bearing sleeve to hold left side of lapping shaft without movement. Both ends of the lap are supported in precisely the same centerline as the flywheel assembly. With this extremely rigid arrangement it is possible to power the lap with a low speed drill motor without chatter in the lapped bearing race. Can also be powered by a conventional hand crank. To do a 4 speed transmission case, Order PCP# 31409 with this tool. 31472

Jims Cylinder Jig Assembly
Use to repair stripped damaged cylinder base threads up to 4" bore in engine case. Tool will hold centreline and squareness to where factory intended them to be. 31532 BT 1984-on single cam only including aftermarket and S&S motors, XL 1986-on and Buell 1987-on

Jims Cylinder Torque Plates
Simulate stress conditions when boring and honing. Drilled for multiple use. 31530 Up to 4" Evo 31531 Bolts for use with XL Evo and Buell

S&S EVO Cylinder Torque Plate Kit
Simulates stress conditions when boring and honing EVO Cylinders. Machined from chrome moly steel, accommodates all BT 1340 and Sportsters 883-1100-1200 cylinder and 3-5/8 S&S Cylinder. As pictured, up to 3-5/8" bore. 530016 S&S

Evo Cylinder Tools
Allows installation of stud to correct height or removal by locking to stud. 26094 Assembly tool 26095 Extracting tool

Cylinder Wall Flex Hone
The easy and economical way to recondition cylinder walls and a perfect cross hatch for oil retention and for quick ring seating. Globules of silicone carbide laminated to the ends of hi-density nylon creates a flexible hone which is unbreakable, requires no set up, and does not get out of shape. Just chuck the wire shaft in a 3/8" or larger drill; lubricate cylinder wall with a little oil and start deglazing. In 30-40 seconds the cylinder is done. Normal life of this tool is at least 1,000 cylinders. 26700 3-7/16" to 3 ½" 26701 3" to 3-3/16" 26703 3-5/8" to 3-¾" 26702 4-¾"
Bottom End Tools

Crankpin Nut Clearing Gauges
530005  Big Twins 1958-99

S&S Crankcase Oil Passage Drilling Jig to 1998
The Crankcase Oil Passage Drilling Jig is designed to help the H-D Big Twin engine builder update early crankcases when installing an S&S oil pump assembly. This fixture enables the builder to do four crankcase drilling modifications.
530013  Drilling jig

Jims Piston Pin Bushing Tool
Use to remove and install wrist pin bushings without removing rods from crankcase.
31468  All single cam models

Preston’s Bearing Race Press Plug
Used to remove and install Timken Bearing Outer Race.
PCP  Fits
1885  1955-98 Big Twin (97194-57)
5878  1977-on XL

Jims Timken Bearing Race Installer
Use to press a race in straight in the left side crankcase on BT 1969-99 and XL 1977-on models. For 1969-on Big Twin use Jims tool #31459.
31558

Crane Cam Tuning
34545  Top dead centre piston stop

Jims Oil Pump Snap Ring Installer
Jims tool easily installs outer snap ring on oil pump shaft without over stretching the ring.
31498  BT oil pumps single cam only including S&S and aftermarket motors

Jims Oil Pump Seal Installer
Installs oil pump seal perfectly below gear surface for a no leak fit.
31499  Use on all aluminum BT pumps, single cam only including S&S and aftermarket motors

Jims Breather Reamer Tool
Use to repair a damaged breather hole to .030” oversize. No need to disassemble the cases.
31562  BT 1936-98

S&S Crankcase Oil Passage Drilling Jig to 1998

1885
Bottom End Tools

Oil Pressure Switch Wrench
Installs and removes oil pressure switches without damage to the switch itself, the extension handle is not used when servicing Sportsters. Used on 1340cc Evo. Replaces 34816.
26031

Jims Tappet Oil Filter Screw Plug Tool
Use on BT with slotted screw.
31547

Bender’s Tappet Roller Tool
This high quality American-made tool makes a time-consuming job easy to handle. It prevents damage to the tappet body during the removal and replacement of all types of tappet rollers. Fits the tappets of all Big Twin and Sportster® models including Evolution® models. 5874 Sold each

Jims Late Shovel and Evo Tappet Block Alignment Tool
Use to align oil hole from crankcase to tappet block. Using two will allow alignment of rocker boxes on Evo heads.
31440 BT Late 1976-on single cam including aftermarket and S&S motors (1/4-20 threads)

Jims Tappet Oil Filter Screw Plug Tool
Use on BT with slotted screw.
31547

Wrenches for Oil Pressure Gauge and Indicator Lamp Sending Unit
Reversible ratcheting wrenches are used to install and remove oil pressure indicator lamp or gauge sending unit on all FL Touring models 1999-on
PCP Item 26171 For Indicator lamp 26172 For sending unit

Tappet Guide Alignment Tool
1. Snug 5894 in screw hole on tappet block nearest the tappet oil feed hole.
2. Install and tighten other three screws.
3. Remove 5894 and install fourth screw.
4. Tappets are now aligned properly with the CAM.

Tappet Guide Alignment Tool
Replaces 33443 to align tappet guide to engine case to result in proper alignment of the cam lobes to valve tappets on 1340cc EVO only.
5894 Preston’s
Top End Tools

Rear Intake Valve Spring Compressor
Compresses intake valve spring on the rear cylinder of the FXST (1340cc only) so that 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. (OEM 34641).

5895

Jims Valve Guide Tool
Use to install shoulderless valve guides to the proper depth. Designed for stock style guides with an O.D. of about .560". Order driver handle separately.
31444 All BT and Twin Cam includes all aftermarket heads

Jims Valve Guide Driver Set
Use guide removal and installation on all models. 3 pce set.
31426 All models including TC-88 and all aftermarket heads

Jims Head Holder-Valve Guide Remover and Installer
Comes with adapters to fit all HD and aftermarket heads. Adapters are supported by a support stand. Makes pressing guides in and out simple. A special guide alignment shaft holds the right angle for best possible guide installations.
31528

Jims Valve Guide Seal Tool
Use to install the valve guide seal. Designed for stock style guides with an O.D. of about .560". Order handle separately. Factory driver spacer not required.
3143 BT 1984-on including TC-88 and all aftermarket heads

Valve Spring Compressor Tool
Jims tool for removing or installing valves. Hardened ball bearing style tip at valve head end eliminates damage to valve. Can be clamped into vice and includes valve collar receiver for safer tool use.
31471 O.H.V. BT and XL including Twin Cam and all aftermarket heads

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31426 All models including TC-88 and all aftermarket heads

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5895
Top End Tools

Valve Guide Driver Tool Set
2829

Valve Guide Install Tool
This single tool will, with the correct socket, accurately set the height and install all guides, including shouldered, shoulderless and snap ring types for all Harley OHV motors 1948-86. Sockets must be purchased separately
4436 XL Intake socket
4437 XL Exhaust socket
4438 Evolution intake & exhaust socket

Valve Guide Seal Installer
Installs the valve guide seals to proper height without damage for all Shovelheads (OEM 35103).
5897

Wire Type Wrist Pin Criclip Tool
Easily install and remove wrist pin clips without damage on 1984-on models.
26140

AV&V Solid Carbide Valve Guide Reamers
These unique reamers feature a 2" long pilot for a perfect alignment with the valve guide while reaming and are specially designed for use with manganese bronze material. Valve guides can be reamed to exact dimension without any taper in just a few seconds. These durable tools will last for hundreds of guides. When using AV&V valves and guides this one tool allows you to fit both intake and exhaust.

<table>
<thead>
<tr>
<th>PCP</th>
<th>Diameter</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>34044*</td>
<td>7mm +0.001&quot;</td>
<td>Stock OEM valves</td>
</tr>
<tr>
<td>34045</td>
<td>0.3110”</td>
<td>Evo, Twin Cam</td>
</tr>
<tr>
<td>34046</td>
<td>0.3115”</td>
<td>Evo, Twin Cam</td>
</tr>
<tr>
<td>34047**</td>
<td>0.3120”</td>
<td>Evo, Twin Cam</td>
</tr>
</tbody>
</table>

*HD 7mm valves are .001” oversized, #34044 must be used to fit AV&V bronze guides to accept OEM valves
** Recommended size for all Evo and Twin Cam AV&V valves

Evolution Rocker Box Cover
Features a low profile to allow clearance between frame and engine, a replaceable bit and an extra long handle for greater reach.
26165

Ratcheting Wrench
Features a low profile to allow clearance between frame and engine, a replaceable bit and an extra long handle for greater reach.
26165

Universal Ball Hones
Kibblewhite precision valve guide hones are durable enough to size C630 bronze and cast iron valve guide materials.

<table>
<thead>
<tr>
<th>PCP</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>32115</td>
<td>7.0mmm</td>
</tr>
<tr>
<td>32116</td>
<td>5/16” (.3125”)</td>
</tr>
<tr>
<td>32117</td>
<td>3/8” (.3750”)</td>
</tr>
</tbody>
</table>
**Top End Tools**

**Pushrod Cover Compressor**
Allows removal & installation of push rod clip.
26055

**Pushrod Cover Compressor Tool**
Pushes against top rocker box to allow one hand operation.
26155

**Pushrod Cover Clip Installer/Remover for Twin Cam**
Install and remove pushrod clips quickly with one hand when using this non-marring, non-slip black Delrin this tool.
31021 Jims
26015 Preston

**Jims Piston Support Plate**
Use this tool to install your rings and cylinders by providing a non-marring flat support to push the bottom of the piston agents as you install the rings and cylinder over the piston.
31588 Use on all HD style engines

**Rocker Arm Bushing Installer**
Jims, use to install rocker arm bushings in rocker arms with or without a press. Installs each bushing to the correct depth for the best oil control. Can be used on all aftermarket rocker arms.
31529 BT 1966-on, Twin Cam 88, XL1957-on and Buell 1987-on

**Jims Head Holder Tool**
Use to hold head in vise through spark plug hole. Has 14mm and 12mm ends. Allows easy positioning of head for all types of work. Can be used on all BT 1948-on including Twin Cam 88 and all aftermarket heads.
31523 For use on BT 1948-on, XL 1957-on, and Buell 1987-on

**Jims Rocker Bushing and Roller Bearing Puller**
Use to remove rocker bushing or bearing in one easy operation. Use on BT 1966-on and Twin Cam includes all aftermarket rocker arms.
31490 Use on BT 1966-on, Twin Cam, XL 1957-on and Buell 1987-on

**Rocker Bushing Line Reamer**
Jims, use to ream rocker bushing to a factory fit of .0007”-.0012” in line with each other. Precise line reamer is capable of a 24 finish or better. Use on all rocker arms including aftermarket arms.
31420 Use on BT 1966-on, Twin Cam, XL 1957-on, and Buell 1987-on

**TDC Indicator**
14mm tool is used to locate top dead center of piston with heads on engine, when degreeing the cam shaft.
26008

**Rockers Bushing Line Reamer**
Jims, use to ream rocker bushing to a factory fit of .0007”-.0012” in line with each other. Precise line reamer is capable of a 24 finish or better. Use on all rocker arms including aftermarket arms.
31420 Use on BT 1966-on, Twin Cam, XL 1957-on, and Buell 1987-on.
**Jims Piston Pin Keeper Tool**
Use to install retaining ring in piston in one easy step without distorting ring.

**31442** BT 1983-on single cam only including S&S and aftermarket motors and XL late 85-on, Buell 87-on

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**JIMS Inner Primary Bearing/Seal Tool**
Seal removal and installation tool for 85-on BT models. Eliminates the need to use a press.

**31052**

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**JIMS Tappet Position Holding Tool**
Allows the tappet and anti rotation pins to be safely and accurately stored for proper reinstallation. For all TC engines 99-on and XL 00-on.

**31042**

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**S&S Boring Plate and Spacers**
Saves time when preparing crankcases and cylinder heads for S&S Sidewinder big bore installations. Machined cast iron with precision ground working surfaces. Plate has Panhead and Shovelhead head bolt patterns on one end and cylinder base patterns for 1936-99 BT engines and 1986-03 Sportster engines on the other. Spacers are sold separately which allow Evolution cases to be bored without removing the cylinder studs. Both #530007 and #530008 spacers are required for 1984-99 BT Evolution engines. 1986-03 XL models require only spacer #530007.

<table>
<thead>
<tr>
<th>PCP</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>530006</td>
<td>Boring plate and bolt kit</td>
</tr>
<tr>
<td>530007</td>
<td>3-11/16” Tall spacer</td>
</tr>
<tr>
<td>530008</td>
<td>7/8” Tall spacer</td>
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**JIMS Head Bolt Torque Gauge**
Accurate gauge allows the measuring of 90 degree when tightening Evo head bolts. Torque sequence lasered on gauge.

**31525** BT 1984-on includes TC-88, S&S and aftermarket motors

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**Socket Handle Cylinder Head Bolt**
3/8” square drive for use with standard sockets. Use on all Twins.

**5819**

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**Top End Tools**
Transmission Tools

Jims BT Transmission Stands
31434  BT 4 speeds and 5 speed
FXST 1986-on
31435  5 speed rubber mount
transmissions excluding
1993-on FLT and all Dyna
models

Eastern’s Transmission Lapping Tool
Ensures proper fitting of oversize rollers
with transmission mainshaft races. Will
lap races on Big Twins and Sportster
transmission.

Jims 5 Speed Door Puller
Use to remove BT 5 speed trans door.
Removes door with gears and shafts
attached without any scratching and no
damage to door bearing.
31575  BT 1980-on 5 and 6 speeds

Jims Seal Driver 5 Speeds
Use to install main seal in transmission
on early and late 5 speeds. Press in the
seal as flat and straight as possible to
.050” below housing for a no leak fit, use
with Jims tool #31410.
31569  BT 1985-on 5 and 6 speeds

Preston’s XL Transmission Access Door Puller
Screws onto clutch gear end and pulls
access cover which is press fit on two
dowels. Replaces OEM 95560-57. Use
on all XL’s.
5817

Jims FL Power Train Alignment Tool
This tool easily and safely aligns the Power Train, (rubber
mounted engine, transmission and swingarm assembly) to
the correct position as found on most touring models. Align-
ment service must be performed when the engine, transmis-
sion or swingarm has been removed or repaired. The safety in
handling and performance of the motorcycle could be greatly
effected without the accurate alignment this tool provides.
31546  Use on 1996-on FLHT models

Jims Seal Driver Late 4 Speed
Use to install the main seal in transmission. Press in the seal
as flat and straight as possible to .050” below housing for a no
leak fit, use with Jims tool #31410.
31571  BT 1977-86

JIMS 5 Speed Main Case Seal Installer Tool
Ensures correct alignment and seal depth when installing seal.
Fits 85-06 BT 5 speeds and aftermarket 6 speeds.
31053
Transmission Tools

Jims 5 Speed Transmission Main Drive Gear Tool
Use for damage free removal and installation of the main drive gear. Also installs the main bearing without removing transmission case.
31451 BT 5 and 6 speeds 1980-on, XL and Buell 1991-on.

5-Speed Main Drive Gear Bearing and Seal Installer
Replaces 34734 for 1980-90 BT.
5899

Jims C/S Support Plate
31455 XL 1991-on (37404-91)

5 Spd Main Bearing Remover
Jims, use to remove old bearing straight without possible damage to trans case and without removing the trans case.
31580 All BT 5 and 6 speeds

Main Drive Gear Bearing Tool
Jims, use to install inner and outer 5th gear bearings to factory depth. New bearing depth incorporated, will still work on early depth.
31456 BT 5 & 6 speeds 1980-06, XL and Buell 1991-05

Jims Transmission Main Drive Gear Bearing Tool
Install main bearing to the factory depth.
31439 BT 1979-86 4 speeds

Jims Trans Gear Spacing Tool
Use to align main and countershafts when checking proper gear spacing.
31452 XL 1986-90, Buell 1987-90

Main Drive Gear Seal Installer
Jims, use to install main drive gear oil seal to the proper depth with transmission assembled. Comes with a protective sleeve for seal.
31593 BT 5 speed models

Jims 5 Speed Main Drive Gear Bearing and Seal Installer
Use to install both bearings and the seal on the clutch side.
31446 BT 5 speeds 1980-90
Transmission Tools

**Jims 5 Speed Transmission Shaft Installer**
Allows transmission shaft to be installed without the use of a hydraulic or arbor press.
31574  5 and 6 speed transmissions

**5-Speed Kicker Installation Tool**
Save time when installing 5-speed kicker conversion units, in that the complete trans does not have to be dismantled. Mainshaft & clutch pak can remain in place. Reduces labour time from 6 to 3 hours.
26021

**Mainshaft Bearing Race Tool**
Jims, use to remove and install the bearing inner race on the transmission mainshaft.
31493  BT Late 1984-on

**Mainshaft Bearing Installer**
Fits BT and Sportster 1991-on. Replaces 37842.
26074

**XL Trans Mainshaft Bearing Installer**
Replaces 34810, aligns and installs bearing without damage to case or bearing. Use with our handle.
26023

**Pulley Lock Tool XL 1991-on**
Sportster sprocket locker tool is used to lock the final drive sprocket when removing and installing the sprocket nut.
31506

**Jims Mainshaft Sprocket Lock-nut Wrench-1/2” Drive**
Heavy duty, thick walled tube features extra long 2 piece design. Inner collar will retain wrench to nut for safer work.
31464  BT 1936-on (1-7/8“ hex)

**Counter Shaft Sprocket 4th Gear Nut Tool**
Replaces OEM #94660-37. Handle not included.
5822  1979-on 5-speed 80”

**Jims BT Sprocket Locker**
Use to lock final drive sprocket. For removing and installing sprocket nut. Use with no. 31464.
31581  BT 1980-on 5 & 6 speed

www.prestoncycle.com
Transmission Tools

JIMS Ultimate Clutch Adjusting Tool
Quickly and accurately tighten the clutch adjusting screw jam nut without having the screw change position on 1985-on BT. Includes proper hex allen wrench which conveniently stores in the tool handle. 31044

JIMS Cruise Drive Vise Stand
Holds the shafts in perfect alignment while protecting them from damage. Use to assemble transmission gears and shafts in 06-on Dyna and 07-on BT. 31051

JIMS Compensating Sprocket Lock Kit
Positively secures the compensating sprocket so it cannot come loose due to shaking. Also keeps the alternator rotor in place to prevent damage to the charging system as well. For use on 2006 Dyna and 2007-on Big Twins with Screamin Eagle performance compensator. Not for use on early style compensator with spring cup attached to rotor or 2014 stock compensator.

<table>
<thead>
<tr>
<th>PCP</th>
<th>Application</th>
<th>For use with Compensator</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>OEM</td>
</tr>
<tr>
<td>31057</td>
<td>08-11 Softail Rocker</td>
<td>40370-08</td>
</tr>
<tr>
<td></td>
<td>2011 FLH</td>
<td>83935-09</td>
</tr>
<tr>
<td>31056</td>
<td>12-13 BT</td>
<td>83935-09A</td>
</tr>
</tbody>
</table>

Countershaft Bearing Remover & Installer Tool
Install or remove the closed end countershaft bearing on all 5 speed and 6 speed cruise drive transmissions without using a press or tapping it in with a transmission shaft. Installs square and to the proper depth. For all HD 6 speed Cruise Drive and 80-06 5 speeds and aftermarket 6 speeds. 31924

Big Twin Trans M/S Seal Remover & Installer by Jims
Used to replace transmission mainshaft seal on Big Twins 1936-86 4 speeds. Will push seal to .050 below housing for a no leak seal. 31410 Kit

www.prestoncycle.com
Transmission Tools

**Jims Clutch Hub Puller**
Use to remove wet and dry clutch hub clutch release rod. 4 bolts included for dry clutch removal. (95960-52C)
31467  BT 1936-90

**Jims Clutch Hub Puller Tool**
Lettered for removal of listed items:
A  45" clutch
B  BT clutch (3, 5, 10)
C  BT alternator cover
D  XL transmission sprocket
E  BT motor sprocket
F  XL early clutch
G  XL late clutch
31429

**Jims Clutch Spring Compressor**
Use to release clutch spring for ease of retainer ring removal and installation. (38515-90)
31457  BT 1990-97

**Clutch Puller**
Pulls the clutch hub on all Big Twins and 45's 1936-84 (except diaphragm clutch). Work equally well on 3, 5 or 10 finger clutch hubs. Can also be used to pull the trans sprocket on XL, and rotor assembly on Big Twins 1970-on.
5823

**V-TWIN 1990-on BT 1340 Clutch Compressor Tool**
Enables clutch to be disassembled. Replaces tool 38515.
26049

**Jims XL Nut-Clutch Spring Tool**
For diaphragm clutches on 1984-90 Sportster models. This one piece simple design utilizes a portion of the clutch release mechanism during disassembly. Replaces 34761.
5892  Imported
31448  Jim's Machining

**Jims Shifter Shaft Sleeve Tool**
Use to remove and install the shifter shaft sleeve in all aftermarket 5 & 6 speeds. This tool may be used to remove, install replacements or upgrade shifter shaft sleeve, assembly and drum. Upgrades shifter assembly in 5 speed 1980-99 BT and 1980-00 FLHT, FXR and FXD. Use to replace shifter sleeve for 5 speeds 2000-06 FXST, 2001-06 FLHT and 2001-06 FXD.
31029

**Preston’s BT 5 Spd Trans Shift Pawl Adjuster Tool Set**
Tool set fits mid 1992-on and includes: a tool to loosen the jam nut on the pawl adjuster, and another to adjust the shifter pawl.
26065  Replaces 41184

www.prestoncycle.com
Chassis Tools

Lower Neck Bearing Puller
Includes: cross arm puller, rods and lower puller claw. Simply remove roller from old bearing, install claw and turn puller.
26106

Fork Stem Bearing Remover
Use this tool to remove the lower fork stem (triple clamp) tapered bearing. Use on all lower fork stems that use bearing OEM #48300-60. Order Jims hard end cap #1048 when using on early XL 1954-77
31450 Tool
31291 Bearing plate

Fork Bushing & Seal Installer
Installs bushing and seal without damaging components.
PCP Application
5883 FXRT 1983-on, XR-1983-on, FX-XL 1984-on (39mm) (34190)
5884 FLT-FXWG 1984-on (41mm) (34634)

Fork Seal and Cap Installers
Jims, use to install fork seals, dust seals, and chrome caps. Lightly grease to keep from scratching fork tubes.
31505 39mm slider with Delrin plastic indestructable cap (2 pce kit)

Jims 41mm Fork Seal Slider
Lightly grease slider to install fork seals, dust seals and chrome caps.
31507

Jims Fork Nut Socket
Use to remove and install top fork tube plug. Eliminates possible burring of plug caused by wrenches.
31496 Use on 1948-on Wide Glides

Fork Leg and Tube Holder Tool
Use this tool to hold fork legs and tubes for easy hands free servicing or rebuilding. Mounts in a vise to hold the fork firmly during repair without causing damage to the fork assembly. Will not scratch surfaces.
31487

Front Axle Wrench
• Use on 1-5/16" front axle
26077

Front Fork Compressor Tool
Use to compress the front springs in cartridge style shocks when servicing or rebuilding. The compressor can be mounted in a vise for easy hands free servicing. Also includes an adapter for FL forks to eliminate direct contact with spring coil and a special rod to pull up the fork damper rod.
82099

Bushing Installers
PCP Application
26011 Fork bushing FXR 1987-on
**Chassis Tools**

**Jims Starter Jackshaft Seal Installer Tool**
This tool is designed to align and easily install the starter jackshaft seal (12066) without distorting or damaging the seal. This seal is located in the upper part of the inner primary of Big Twins.

31904 Use on Twin Cam 1999-06 FL, 2000-06 FXST, 1999-05 FXD and BT Evo 1994-00.

**Jims Alternator Rotor Removal Tool**
Must have tool for 45 AMP charging systems. Will pull the rotor free from its magnetic hold. Use on 1997-06 FL and Ultra.

31433

**Oxygen Sensor Tool**
Remove and install oxygen sensors on fuel injected models. Socket has 3/8” drive receptacle. Can also be used with 7/8” wrench.

PCP Fits
26110 18mm
26111 14mm

**Jims Exhaust Stud Drill Fixture**
Fits BT and XL 1984-on exhaust ports to align for the drilling of a broken exhaust stud.

31524

**Jims Exhaust Gasket Seal Installer Tool**
Use Jims handle #31438 or with exhaust flange nuts to position the seal evenly into the exhaust port of the head. Use on all 1984-on EVO Big Twins, Sportster and all Twin Cam.

31020

**Fork Tube Plug Socket Wrench**

26096

**BT Alternator Rotor Puller**
The puller uses the sprocket shaft end to centre and the two threaded holes in rotor for rotor removal.

26076

**Jims 35mm Hex Top Fork Nut Socket (3/8 Drive)**
To remove or install top fork nut on glide forks. Has a rubber protector on inside to prevent chrome damage.

31567
Chassis Tools

Touring Suspension Air Pump
Small, low volume pump with bleeder valve and 60psi pressure gauge makes easy work of adjusting pressure in air shocks. Features tight connector and flexible hose for getting at tricky spots.

26145  54630-03A

Left Rear Motor Mount Bolt Wrench
Use for removal and installation of left rear motor mount bolt on BT without removing the inner primary cover.

26147

Adjustable Main Jets For S&S
Fits in the float bowl drain plug below the main metering jet. The recommended main jet is 100 to 104.

Adjustable Enrichener for S&S
Replaces the stock fixed enrichener, adjusts as bike warms up, and also makes for easier starting. O-rings and instructions included.

PCP  Description
1254  Enrichener
3823  Main jet (super carb)
530452  Jet installer and removal tool on all B & E carbs

Digital Shock Pump Tool with Gauge
Features digital display and 0-60 PSI gauge.

26153

Intake Manifold Allen Wrench
On all Evo BT and XL there is no longer any need to remove the gas tanks to get the job done!

26066

FXR-FLT L79-Up Shock Tool
Replaces 94409-78 and 94448-82. For use on 1979-on FXR-FLT and 1979-on XLH-XLS-XLCH. Zinc plated.

1319

Shock Tool FXST 1989-on
For use with 3/8" ratchet drive.

73648

FXST-FLST Shock Wrench
Replaces 94455-89 to adjust rear shock preload or seat height.

5896

Evolution Ratcheting Intake Manifold Wrench
Features ball end allen bit for flexibility in tight areas.

26164

1" Fork Stem Die Tool with Holder
Use to repair or dress 1" x 24 TPI on BT fork stems. Holder can be turned by a wrench.

26126

Main Jet Tap Tool
For Bendix carbs. 9/32 Threads.

5860

18-35
Chassis Tools

Jims Steering Head Bearing Race Installer
Use to install steering head races, stock and custom, as well as install cups in the frame. This tool pulls the races and cups in, straight and true, without any damage.
31582 Use on all models

Jims Steering Head Bearing Race Remover Tool
Use to remove and install steering head bearing race.
31583 BT 1949-on including S&S and aftermarket motors, XL 1978-on and Buell 1987-on.
31557 Race spacer only
31438 Driver only

Jims Steering Head Stem Nut Wrench
Time saving tool provides access to the head stem nut without removing the radio package. Use this tool to loosen, tighten an instad torque the 1-½” stem nut without radio removal. Use on 1996-on FLHT and 1994-on FLHR.
31030

Pivot Bearing Remover
Use this tool to remove and install all Softail swingarm pivot bearings. This tool may also be used to remove and install the spherical bearing on springer front fenders. This tool will remove and install the bearings straight and true without any damage. Use on 1984-on FXST or any aftermarket swingarm that uses OEM bearing #9076. Also use on BT 1997-02 and 2004-on Springer Softail front fenders that use OEM bearing # 9194.
31500

Rear Swing Arm Bearing Remover/Installer
For FXST, FLST models 1986-99.
26127

Jims Cleveblock Bushing Assembly Rear Swing Arm Tool
Use to remove and replace swing arm cleveblocks. Cleveblocks are silicone filled bushings that will be damaged if not installed properly. Jims tool presses on the outer sleeve of the bushing, preventing damage to the cleveblock. Can be used with or without a press.
31564 Use on FLT 1980-on, FXR 1982-94 and all aftermarket FXR style frames

5 Speed Swing Arm Spreading Tool
26070

Cleveblock Spreading Tool
Jims, use to install the swing arm in a 5 speed rubber mount frame. When cleveblocks are replaced they need to be positioned to install in the rear of the transmission. This tool will spread the swing arm cleveblocks allowing for installation of the swing arm.
31563 For use on BT 1980-on
Chassis Tools

S&S Clutch/Inner Primary Bearing Race Puller
CNC machined clutch puller is specifically designed to remove an S&S high performance clutch. Can also assist in the removal of a stock clutch from a damaged mainshaft. Add an attachment to the clutch puller and it doubles as a primary inner bearing race remover. 565141

Jims Outer Primary Cover Starter Bearing Remover Tool
Easily removes bearing, even if cover has been chromed with bearing installed. 31577  BT, XL and covers that use bearing no. 9063
Note: Also c/shaft bearing 1977-on 4 speeds and XL 4 speed gear.

Fuel Tank Lock Ring Tool
Use to remove and install fuel tank lock ring. Allows access to the fuel filter and fuel pump. Fits FLT 2008-on. 26112

JIMS Pulley and Sprocket Mega Nut
Left handed threaded nuts feature a lock plate design. Can be used on all H-D 6-speed Cruise Drive transmissions 2006-on FXD, 2007-on FLH, FXST and BDL 6 speed sprockets. Install using JIMS socket tool #31038 and #31581 pulley locker. 31011

E-Z Tyme
Device bolts inside the primary cover on 1970-99 Big Twins. After installation, only inspection oval of outer primary need be removed for accurate timing. 26060

Primary Drive Locking Tool
Jims, use on all primaries between front primary chain and motor sprocket. 31579  Made from black Delrin

Late Model XL Primary Case Plugs Tool
The style of the mid-70’s XL models primary plug is now available for the newer 883 and 1100 XL models. Can be used to replace both primary plugs on ‘86-90. Shown with one of two XL primary plug tools that are also now available and make removing the plug easier. Makes marring the plug’s groove practically impossible. 5800

S&S Inner Primary Bearing Race Installer
CNC machined tools make servicing quicker and easier. Inner bearing race installer features a roller thrust bearing that decrease the effort required by 30%. 565145

Final Drive Tool
Tool fits final drive pulley, to ensure that the nut can be properly set to torque specifications. PCP  Application
26104  BT (41184)  26105  XL
General Tools

Belt Tension Gauge
Gauge is designed to aid in properly adjusting belt tension on models with a secondary drive belt.

26016  Preston
31035  Jims

Calibrated Belt Tension Gauge
Accurately measures belt tension.

26169

Chain Puller
This handy tool eliminates the annoyances of installing the master link in your rear chain. Conveniently pulls chain halves together without loosening at rear wheel. Fits all sizes. Chain puller.

26040

Chain Breaker
Excellent for cutting 530 heavy chain.

26039

Link Press Tool
Presses the side plates on all 530 o-ring chains.

26012

Jims Rear Axle Nut Torque Adapter
This tool allows you to torque the axle nut from an offset position eliminating the need to remove mufflers. Features a ½” drive receiver hole. Use on 2006-on FL Touring models and 2008-on. V-Rod 2005-on.

31031

Jims Hollow Axle Plug Tool
Most late model motorcycles are now using hollow axles which has eliminated the center point of the axle, formerly used as a center point for alignment references. Lube the o-ring ends of these tools and insert in left and right ends of Axle on 2008-on Dyna and Sportster models. This will give you the correct center point required for safe vehicle alignment.

31032

Jims Third Hand Axle Locker Tool
When torquing the axle nut after setting the proper belt tension, the welded axle nut may move allowing the belt to lose adjustment. Place this tool over the welded nut on the left side with the neck portion of the tool resting over the swingarm. Hand screw the adjusting screw to take up any slack in tool. Torque the axle nut from the right side knowing the welded nut will not turn and the belt will not lose it's adjustment. Use on all 2002-on FL.

31033
Wheel Bearing Greaser
Patented fitting & spigot will grease 1973-99 tapered bearings without removing seals.
5811

Wheel Truing Fixture Parts
Cast alloy construction. Adjustable widths for all wheels, with or without axle in place. Made in U.S.A.
26027 Roller stanchions only

Primary Oil Fill Funnel
Funnel snaps into the bottom of the derby cover hole. Add oil to the primary with no mess or spills.
26000

Oil Catcher Pan
Use when removing oil filter to avoid spilling the oil onto the engine cases. Includes 12" tube to direct the oil flow into the oil drain pan.
26003

Spoke Wrench
Fits six spoke nipple sizes. Jaw sizes are numbered and stepped down in numerical order for quick and convenient spoke adjustments. Tool is contoured to allow a sure grip. Perfect for tool bag or box. Length is 4 inches.

Super Tire Tool
A deluxe tire iron. 15" long for better leverage and quicker, easier tire changes.
3546

Jims Wheel Bearing Race Tool
1973-99
31437

E-Z Squeeze® Bearing Packer
Patented design grease all tapered bearings with a 5/8 or large I.D. Canister holds grease for clean operation.
5871

Vise Jaws
Soft jaws work great in any 4"-6" steel vise. 6 Strong magnets to hold jaws securely to vise. V shaped cutouts hold and protect round or hex shaped parts.
26013 Accel black billet aluminum
31084 Jims cleated alloy
31086 Jims cleated alloy with rubber pads

Engine Cleaning Brush Kit
• 9 Assorted stiff bristle nylon brushes
• Heavy gauge twisted steel wire handles
• Will not melt or soften in cleaning solvents
26142

www.prestoncycle.com
General Tools

“Activator” Battery Filler
Nozzle attaches to any standard acid pack tube. Positive thumb release valve absolutely controls acid flow, preventing acid spills, burns and holes in clothing. 26148

Swivel Spark Plug Wrench
Patented design for all 12 & 14mm plugs. 180° rotation. 26020

Jims Pin Extractor
Easily removes the molex style pin from connectors. 31526 Use on all models

Jims Receptacle Extractor
Easily removes the molex style receptacle pin from connectors. 31527 Use on all models 1980-on

Accel 14mm Spark Plug Indexer
This index tool for 14mm spark plugs allows the engine builder to specify the location of the ground electrode for maximum flame front generation. Tool is knurled for easy hand held operation or can be mounted in a vise. Made from billet aluminum with a gold anodized finish with increment labels for accurate alignment. USA made. 26125 Use PCP 25283 index washers for proper alignment.

Accel 14mm Spark Plug Index Washer Kit
Soft copper spark plug washers allow the engine builder to align the ground electrode and adjust plug to piston clearance. Sold in a 30 pack assortment. 25283 For use with PCP 26125 spark plug indexer

Wire Terminal Tool
Quickly and easily depresses lock tabs on terminal pins and sockets to ease wiring harness disassembly. 26054 1971-90 XL, 1973-90 BT (97362-71)

300+ Crimp Tool from Accel
This top quality tool is an absolute must when making custom wire sets and wiring. Made from a heavy-duty hardened steel frame with molded non-slip hand grips. An adjustable ratchet mechanism produces consistent high quality crimps. The 300+ Crimp tool includes three removable stripping/crimping die type jaws, 2 styles for primary wire terminals and one for 7-9mm plug wires. 28270

Safety Wire Tools
Wire twisting pliers feature automatic twisting and plying motion which gives uniform twists without damaging wire. Bolt drill fixture allows drilling of 1/16” diameter holes in heads of hex, 12 point, or allen head cap screws from 3/16” to 5/8” shank diameter. Includes drills and bushings, which secure the bolts during the drilling operation. Tools sold separately. 26045 Drill fixture 26047 Tie wire (.032) 26048 Tie wire (.041)

Hose Clamp Tool
OEM type clamp closing tool. 5870 Crimping tool (97087-65A)
Snap Ring Pliers
Specially designed with long reach fingers for use on master cylinders.
26167

Flex Hone for 5/8” Master Cyl.
Designed for low speed operation using 3/8” drill.
26119 For 5/8” master cylinder

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.
26129 Front 1982-95
26131 Front 1996-98
26130 Custom rear Jay Brake

Jims Brake Caliper Piston Remover
Use this tool to support the brake caliper pistons when removing them. This tool will hold the pistons square to their bores preventing damage to pistons and piston bores. Allows seals and wipers to be replaced. Works on all 4 piston brake calipers 2000-on.
31463

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.
5813

Driver Handle
Replaces 33416 to drive wheel race, crank bearing race and cam needle installers.
5861

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.
26038

JIMS Exhaust Pipe Snap Ring Installation Tool
Quickly and easily install the exhaust pipe retaining ring on almost all H-D exhaust systems. Install the snap ring in seconds without scratching the exhaust pipe or twisting the ring. For use on all Twin Cam, Evo and 1986-on Sportsters.
31010

Stud Remover and Replacer
This powerful tool 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”.
5856

Drill-Out
Broken bolt extractor kit includes a precision left hand cutting self-centering point drill and special collet. Detailed instructions included.
26059 1/2”-12mm

Seal Driver & Bearing Race
Includes driver handle and 6 machined aluminum collets to fit most bearings.
26036

www.prestoncycle.com
General Tools

Mini-Lift
Use with table lift to raise bike on table with 3” to 12” range. Max weight 600lbs.
85000

Gasoila Sealant
Available in hard setting red varnish or soft set blue/white with teflon. Red sealant is the original sealer for sealing holes on porous surfaces and for use on the inside of crank cases and cam covers. Blue-white seals threaded joints on pipe threads and fittings. Both types are insoluble in oil, gas and solvents. Sold in 1/4 pint can that includes brush.
59474 Red varnish
59475 Blue/white

Heli-Coil Thread Repair Kit
Thread inserts for head bolts with 7/16" x 16 thread are .656" long. Drill size is 29/64. Fits FL 1948-84 and FX 1971-84 6 Pack.
73770

Oversized Drain Plug and Tap Kit
Contains 1 chrome plated dome head plug with an oversize thread and one tap for retreading the stripped out drain hole. Fits OHV Big Twin Harley Engines 1965-on and Sportster 1967-on.
1760 Tap and plug kit
1761 Oversize plug only

Heli-Coil Thread Repair Kit
For cam cover screw, tappet guide, oil pump stud, timer and mounting threads. This kit includes tap, installation tool and 12 inserts.
26019

Gasgacinch Gasket Sealer
Sold as 4 oz. can.
59476

Oversize Timing Plug/Tap Kit
Contains 1 chrome plated acorn head plug with an oversize thread and one tap for retreading the stripped out timing hole.
1758 Tap and plug kit
1759 Oversize plug only

Opti-Clear Timing Hole Plug
Clear timing tool for use on all Harleys. Remove your stock timing plug and insert this top quality tool for easy timing. This is for use as a tool only; once your timing is set it should be replaced by the stock plug. Replaces OEM #96295-65.
626 Each

18-42 www.prestoncycle.com