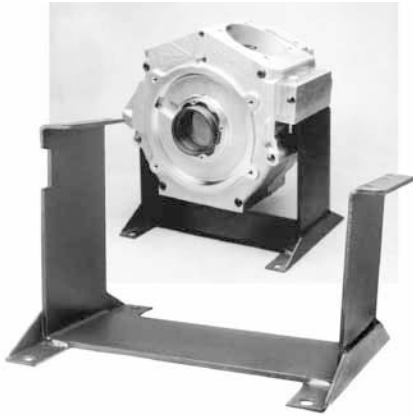


Section 18A

Tools

Bottom End Tools	2-12
Chassis Tools	21-23
General Tools	24-26
Top End Tools	13-15
Transmission Tools	16-20

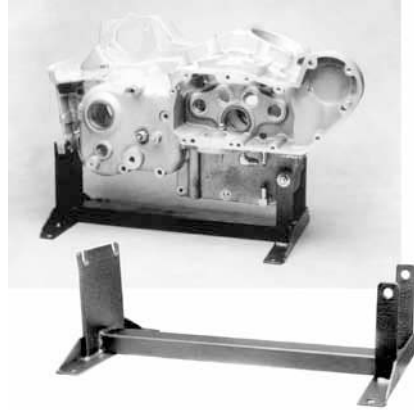
Bottom End Tools



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 XL Engine Stand

Powder coated, steel bench stand simplifies engine overhaul.

31432 XL 1957-on



Motor Stands

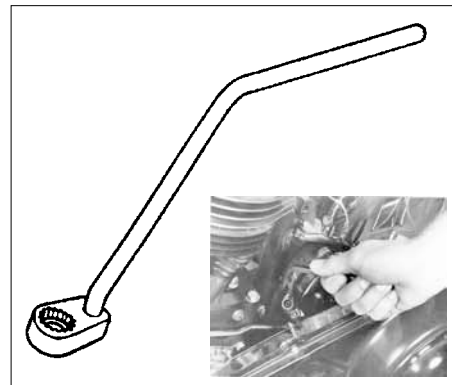
PCP Fits
2831 Big Twin 1941-on (96815-46)



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.

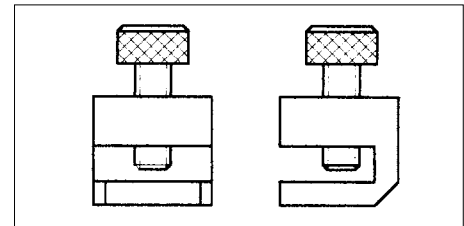
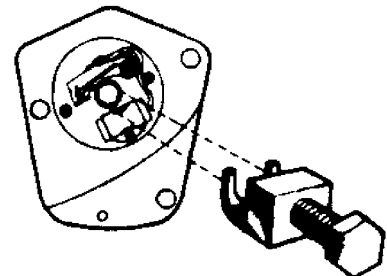
31559 BT 1969-on



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



Acu-Time

Take the guess work out of tune-ups. The Acu-Time unit will allow you to lock your advance while you time it statically. This will help you to reduce kickback, while promoting easier starts, smoother running and a longer engine life. 1970-78 with point type ignitions.

2089 1970-78



Oversize Timing Plug/Tap Kit

Contains 1 chrome plated acorn head plug with an oversize thread and one tap for rethreading 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 plug 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

Bottom End Tools



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



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



Jims Cam Bearing Gauge
Use pins to check if your cam is too tight or too loose. A tight cam can eat up the end of the journal and cause other problems. A loose cam can be noisy and cause cam, bearing and roller wear.
31485 BT 1958-on single cam only
all aftermarket and S&S motors
31486 XL 1957-90



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) (Jims)
26057 BT 1958-99 (Preston)



26057



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



Jims Race/Bearing Install Handle Tool
31438 33416-80



Cam Seal Installer
This tool facilitates the installation or removal of a seal with the cover removed.
31533 Jims BT 1970-on

Bottom End Tools



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



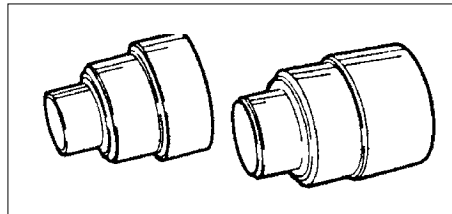
Jims Cam Cover Holding Tool
Use tool to hold cam cover for removing and installing bushings. Clamps in vice or mill. Holds cam cover flat and keeps it from being scratched.
31423 BT 1970-99 (1041-TC)



Jims Cam Cover Cam Bushing Remover
Use to remove the cam cover and cam bushing in one easy operation. Will also remove cam bushing in case
31534 Use on BT 1936-69

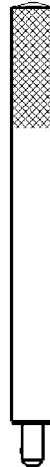


Jims Late Shovel and Evo Tappet Block Alignment Tool
Use to align oil hole from crankcase to tappet block. Using two will allow alignment of rocker boxes on Evo heads.
31440 BT Late 1977-on single cam including aftermarket and S&S motors (1/4-20 threads)

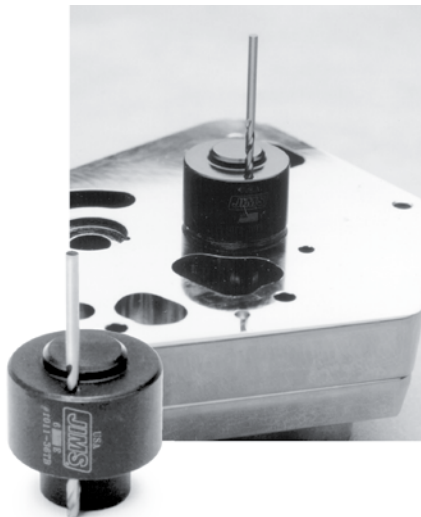


Preston's Cam Shaft Needle Bearing Installing Rods
Used to install cam shaft needle bearings on both Big Twins and XL's. Tool for all Big Twins replaces OEM #97272-60. Tool for all XL's replaces OEM #97273-60.
5828 Big Twins
5829 All XL's

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



Bottom End Tools



Jims Cam and Pinion Bushing Drill Jigs

Allow the installation and drilling of a dowel pin to factory location supplied with #31 drill bit.

PCP	Type	OEM	Fits
31400	Cam	25581-36 25597-36	36-69 BT
31401	Cam	25581-70	70-up BT
31402	Pinion	25582-54 25582-73	54-92 BT
31403	#2Cam	25588-57	57-90 XL
31404	Cam	25591-37	37-48 BT
31405	Pinion	25593-37	37-73 45
31406	Cam	25586-37	54-up XL 37-48 BT, S. Valve
31407	Pinion	25582-36	36-53 BT



31495 No. 31 drill bit for all model jigs above



31590 Staking pins for above (10 pk)



Eastern's Bushing Reaming Tools

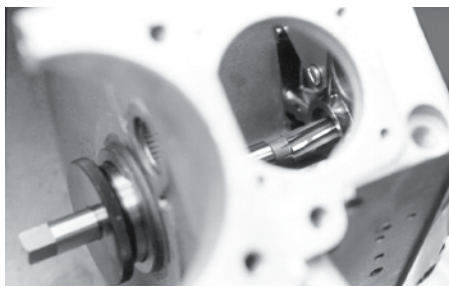
Big Twins and Sportster (pinion bushing in cam cover)

PCP Application

2844	XL 1977-85 (94812-80A)
2845	BT 1941-54 (94813-80A)

Cam Bushing Reamers (cam bushing in cam cover)

26115	BT 1970-on (94802-70)
26041	FL 41-69 bushing in case



Jims Pinion Bushing Line Reamer Tool

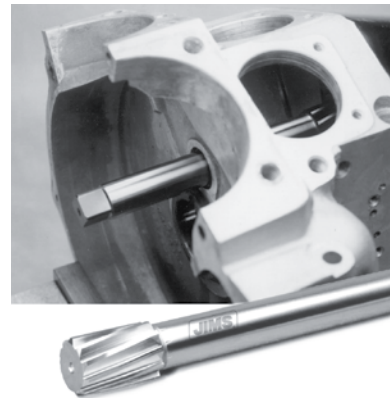
Use to line pinion bushing in cam cover from right case race.

31491 BT 1954-on single cam only including S&S and aftermarket motors and also XL idler gear bushing

Tappet Guide Puller

Use to remove press fit tappet guides from crankcase.

31466	Jim's XL 1957-78
2098	Preston



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.

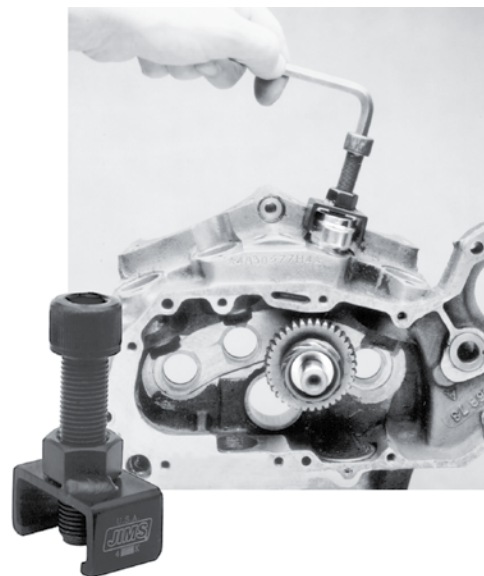
31408 BT 1970-on single cam only including S&S and aftermarket motors



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



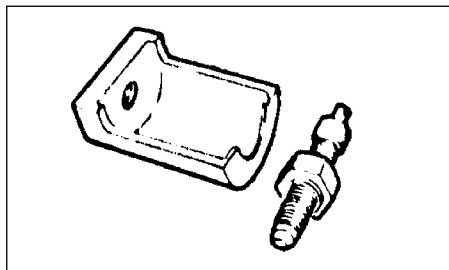
Bottom End Tools



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.

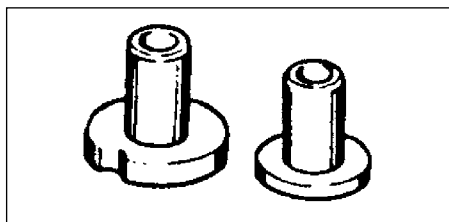
31461 BT 1955-99



Preston's Pinion Gear Puller

Used to remove and install pinion gear. Use on all Big Twins and 1976 and earlier XL's. Replaces OEM #96830-51.

5866



Preston's Pinion Puller Collars

Set of large and small collars to fit puller cup unit.

5867



Jims Pinion Gear Installer and Puller

Use to install pressed on splined pinion gears on BT 1939-53. Use to remove pinion gear on BT 1939-89 and XL 1957-76.

31479



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 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



Colony Pinion Gear Nut Wrench

Remove and install pinion gear nut.

72429 Replaces 24023-54



Jims Pinion Gear Lock Tool

For applying torque to the pinion nut on BT 1954-99 models. Use Jims tool #31461 to tighten pinion nut.

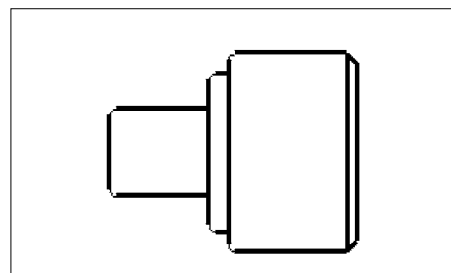
31541



Preston's Gear Shaft Nut Socket Wrench

Fits the pinion gear nut which secures pinion to gear shaft 1955-89. OEM 94555-55.

2826

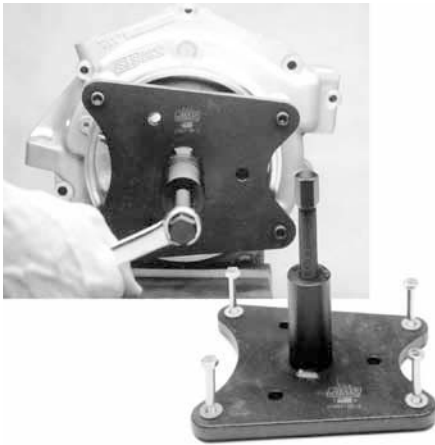


Preston's Pinion Bushing Tool

Positions pinion bushing in cam cover on all 1970-on Big Twins to correct depth.

5862

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



Flywheel Spreader Tool

Spreads wheels while truing for BT and XL.

26144



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

31560



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



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 1954-Early 81

Use to install or remove crank pin nut no. 23966-54A.

31501 1-5/16" x 3/4" 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

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

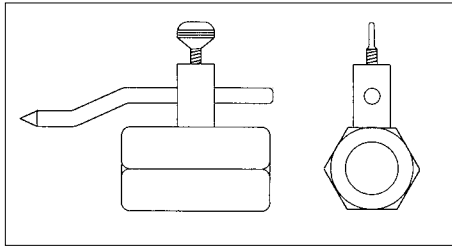


Colony Sprocket Shaft Tool

Remove and install stock and aftermarket bearing retainer. Used on BT 55-68.

72318

Bottom End Tools



Preston's End Play Gauge

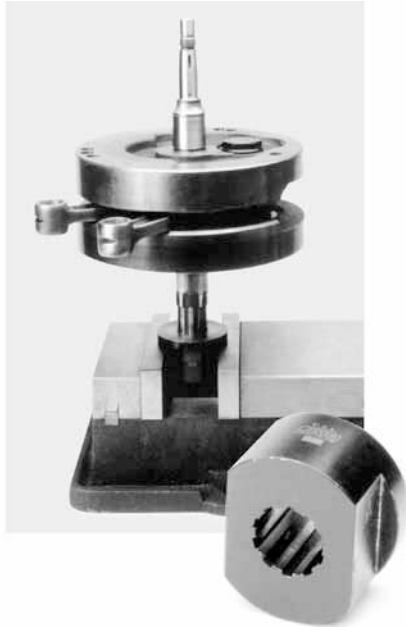
Screw onto the sprocket shaft to check the flywheel end play on Big Twins. Also can be used for checking mainshaft end play on 45" and Servi-Car models. Replaces OEM 96700-38.

2833



Degree Wheel Kit

530020



Jims Sprocket Shaft Holder

Use to hold the flywheel assembly in vise with or without left case attached.

31556 BT 1955-on



Sprocket Shaft Installing Tool

PCP Fits

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

18A-8



Jims Sprocket Shaft Bearing Race Tool BT 1969-99

Use to remove and install Timken bearing race from motor case. Use with handle #31438.

31459



Jims Sprocket Shaft Bearing Race Tool XL 1977-on

Use to remove and install Timken bearing race from motor case. Use with handle #31438.

31460



Jims Race and Bearing Install Tool Handle

Approximately 12" long. Use with tool #31437, 31459, 31460, 31485 and 31486.

31438

Preston's Sprocket Shaft Turning Tool

Turning tool fits spline on an assembled motor allowing engine to be turned over by a 1/2" ratchet or impact driver.

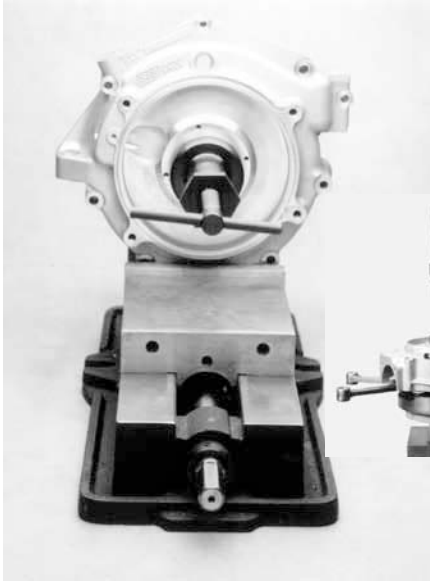
26058 BT 41-54

26102 BT 55-on

26103 Sportster 57-on

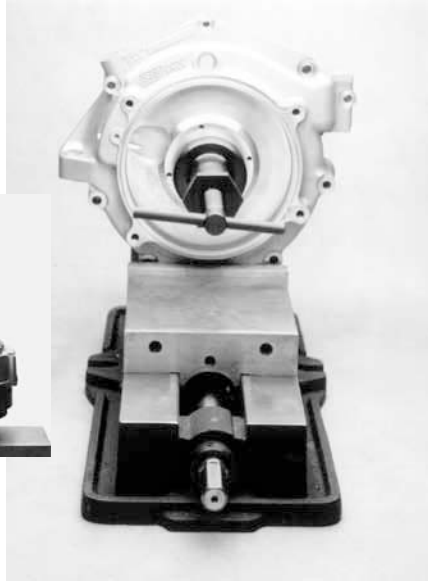
PRESTON CYCLE PRODUCTS INC.

Bottom End Tools



Jims BT Sprocket Shaft Bearing Installer Tool

Use to install crankshaft assembly into crankcase Timken bearing.
31483 BT 1955-on



Jims XL Sprocket Shaft Bearing Installer Tool

Use to install crank shaft assembly into crankcase Timken bearing. Must be used with a #94660-37A socket, sold separately. For use on XL and K models 1952-76. Can be used on 1977-on models when used with a #37047-91-5 sleeve and a #37047-91-6.
31480



Jims XL Timken Bearing Puller

Tool removes the inner Timken bearing from sprocket shaft without removing the shaft from flywheels.
31424 XL 1977-03



Jims Sprocket Shaft Bearing Nut Wrench

Use to install and remove bearing nut.
31484 BT 1955-68



Jims Sprocket Shaft Bearing Installation Tool

Use to install crank shaft 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.

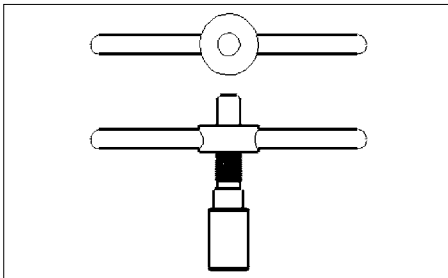
31453 2.060" long XL 1977-03

31454 2.500" long XL 1977-03



Jims Motor Sprocket Shaft Seal Install Tool

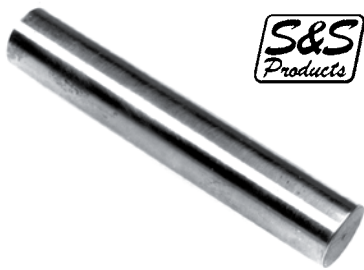
Use to press oil seal over sprocket shaft into case, use with tool #31483
31458 BT 1969-on



Preston's Sprocket Shaft Bearing Wrench

For removing the nut from the sprocket shaft on 1955-69 74's.
1896 97235-55B

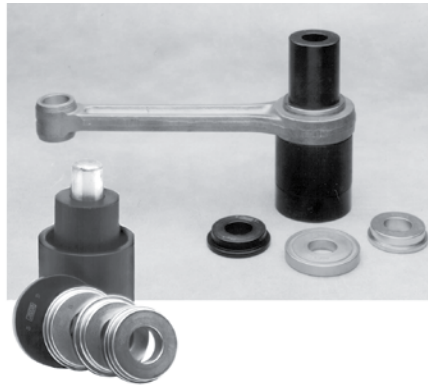
Bottom End Tools



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 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



Crankpin Nut Clearing Gauges

530009 Big Twins, 1937-57

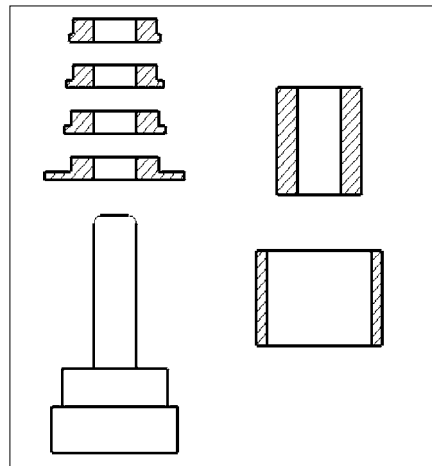
530005 Big Twins, 1958-99



Jims Rod Alignment Tool

Use to check rod straightness without removing rods from case. The alignment tool is 4-1/2" long.

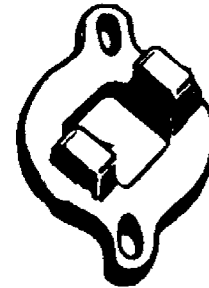
31436 BT single cam only, including S&S and aftermarket motors



Preston's Rod 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



Preston's Rod Clamping Tool

Holds connecting rod when fitting piston pin bushing on all 45, 61, 74 & 80 model Twins.

5876



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

5874



Preston's Tappet Adjusting Gauge

A top quality speciality tool for checking and adjusting hydraulic tappets without removing them. Accurately measures the clearance between the lifter and the pushrod. Fits all Harley Big Twins 1953-84

3313



Preston's Bearing Race Press Plug

Used to remove and install Timken Bearing Outer Race.

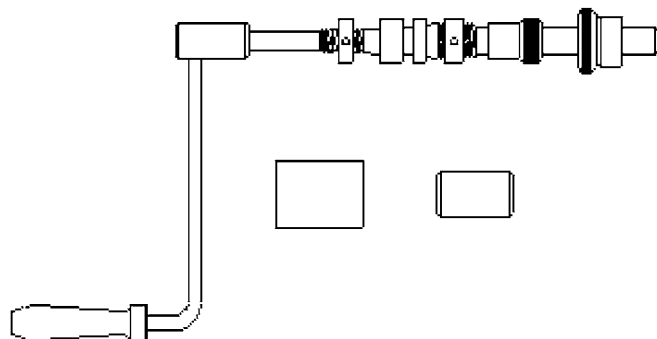
PCP Fits

1885 1955-on Big Twin (97194-57)

5877 1957-76 XL

5878 1977-03 XL

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 and 45 motor cases.

- 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.

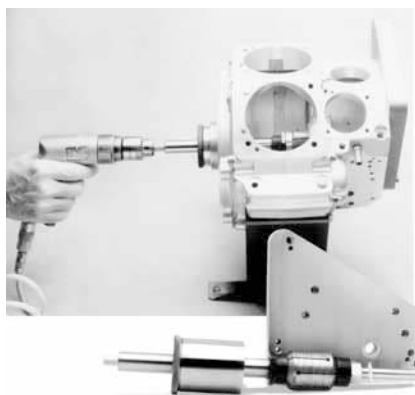
- 2849** Engine Cpt.
- 2853** Trans. Cpt.
- 5875** Combo Cpt.



Eastern Rod Lap Tool

Big Twin - Sportster - 45". 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



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,

31472

Eastern's Transmission Lapping Tool

Insures proper fitting of oversize rollers with transmission mainshaft races. Will lap races on Big Twins and Sportster transmission.

- 2853** Complete tool
- 2854** Lap head only Sportster 1.300
- 2855** Lap head only BT 1.870



Clover Oil Based Lapping Compound

16 Oz. can. Use on valves for a good seal and with all Jims lapping tools. Available in coarse 220 grit for roughing-in and fine 320 grit for finish work.

- 31591** Coarse (micron finish of 32)
- 31592** Fine (micron finish of 16)

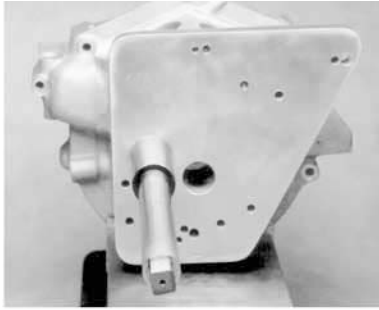


Jims Rod Lapping Set

Arbor assembly includes 1-1/2" and 1-5/8" laps.

- 31473** All BT single cam only H-D, S&S and aftermarket motors
- 31474** 1-1/2 lap head only
- 31475** 1-5/8 lap head only

Bottom End Tools



Jims Breather Reamer Tool

Use to repair a damaged breather hole to .030" oversize. No need to disassemble the cases.

31562 BT 1936-on

Note: Some early crankcases 1936-69 have very little material between the breather hole and the air/oil separator cavity below it. Before using the reamer tool, measure the wall thickness to verify that the reamer will not break through.



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



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



Heli-Coil Thread Repair Kit

Thread inserts for head bolts with 7/16"x16 thread are .656" long. Drill size is 29/64. Fits FL 1948-84 and FX 1971-84

6 Pack.
73770



S&S Crankcase Oil Passage Drilling Jig

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

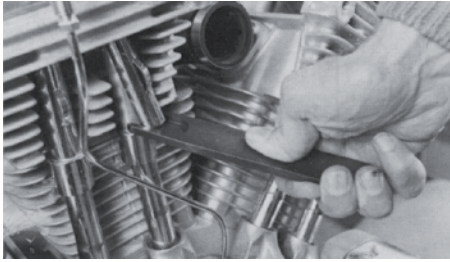


Oil Pump Re-Seat Tool

Facilitates ball burnishing of the relief valve seat on cast iron pumps Fits FL 41-68, W 36-52 and G 36-64.

26063

Top End Tools



Pushrod Cover Compressor

Allows removal & installation of push rod clip.

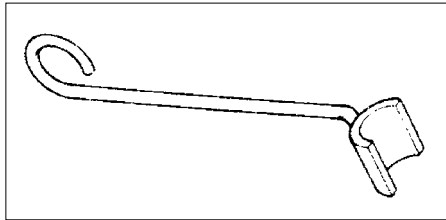
26055



Pushrod Cover Compressor Tool

Pushes against top rocker box to allow one hand operation.

26155



Push Rod Adjustment Gauge

Use on all Big Twin 1953-84 with hydraulic lifter.

5885 91438-79



Wrist Pin Bushing Reamer Tool

Sifton tool with lead-in taper at the start of each ream. Fits EL 36-52 & FL 41-99.

26025



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.

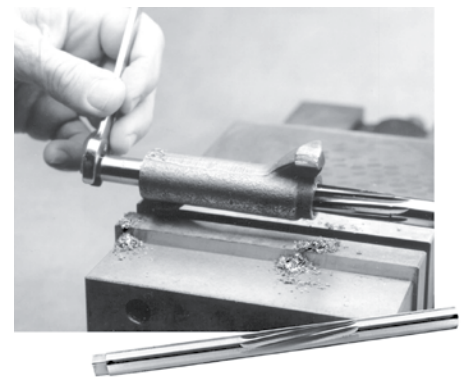
31529 BT 1966-on, XL1957-on



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 and XL 1957-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, XL 1957-on

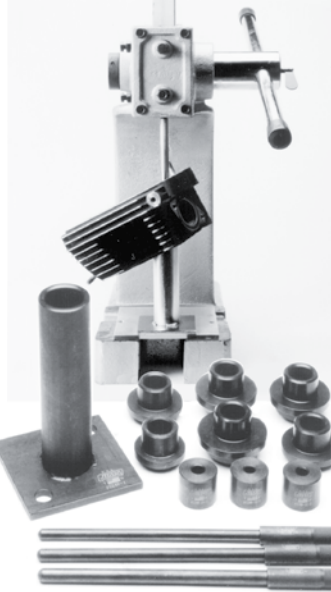
Top End Tools



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 and all aftermarket heads.

31523 For use on BT 1948-on, XL 1957-on



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



Socket Handle Cylinder Head Bolt

3/8" square drive for use with standard sockets. Replaces OEM. Use on all Twins.

5819



Head Bolt Wrenches

2 types available for 1930-on flat heads, and 1936-47 OHV 9/16 size.

PCP	OEM	Model
5872	12047-30	ULH
5873	12047-36	OHV



Cylinder Base Nut Wrench

26151 BT 3-5/8"



26067

Piston Pin Lock Tool

Fits FL & XL 52-72 and FX 71-72. Replaces 96780-58A.

26067 Preston
31477 Jims



2825

Piston Pin Lock Ring Tool

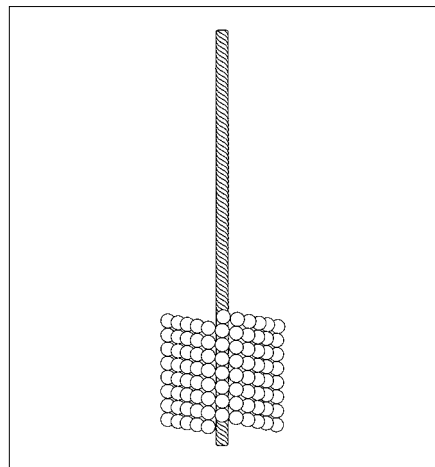
Split-type fits VL 32-34, WL 32-52, EL 36-40, UL 37-48 & FL 41-51. Replaces 96780-32A.

2825 Preston
31476 Jims



Jims Piston Pin Lock Ring Tool

Fits BT & XL 73-77. Replaces 96781-72.
31478



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 1/2"

26701 3" to 3-3/16"

26703 3 5/8" to 3-3/4"

26702 4-1/4"



Top End Tools



Rowe XL Valve Guide Sockets

Accurately set the height and install all guides, including shouldered, shoulderless and snap ring types for all Harley OHV motors 1948-86.

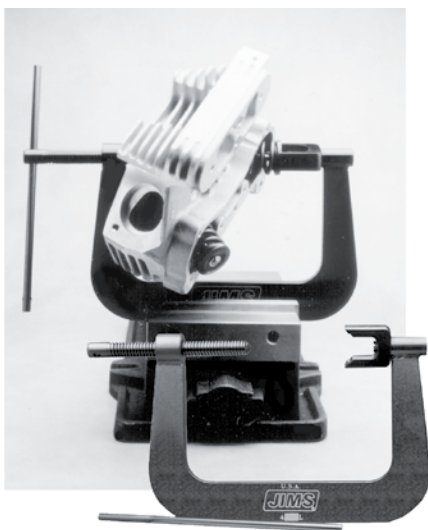
4436 XL intake socket

4437 XL exhaust socket



Crane Valve Guide Machining Tools

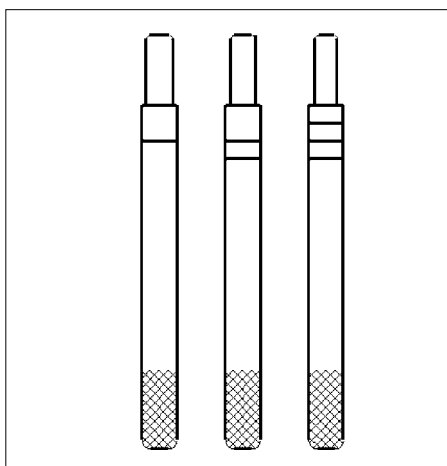
34546 Tappet block alignment tool



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



Valve Guide Driver Tool Set

Three sizes of drift valve guides for Sportster, 74's and 45's. 5/16 valve guide drive, 11/32 valve guide drive. 3/8 valve guide drive.

2829



Valve Spring Compressor

Necessary for removing or installing valves. Fits all overhead valve Big Twins. OEM 96600-35.

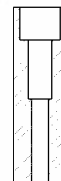
2856



Jims Valve Guide Driver Set

Use guide removal and installation on all models. 3 pce set.

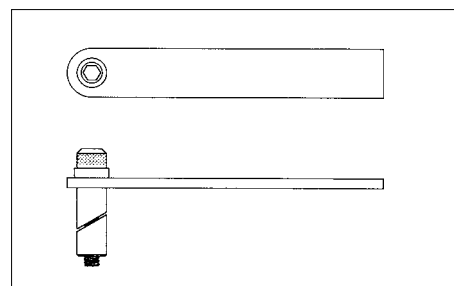
31426 All models



Valve Guide Seal Installer

Installs the valve guide seals to proper height without damage for all Shovelheads (OEM 35103).

5897



Valve Lifter Remover

Simplifies removal of frozen or loctited hydraulic lifters for all Shovelhead models. Replaces 97102-81.

26007



11806-31

Valve Cover Wrench

Replaces 11806-31 for all 45's models. 1929-on.

5832



Universal Ball Hones

Precision valve guide hones are durable enough to size C630 bronze and cast iron valve guide materials.

Kibblewhite

32115 7.0mm

32116 5/16" (.3125")

32117 3/8" (.3750")

Imported

26053 .554" Rocker arm bushing

26056 10mm Valve guide

Transmission Tools



Jims BT Transmission Stands

31434 BT 4 speeds and 5 speed

31435 5 speed rubber mount transmissions (shovel)



Jims 4 Speed Mainshaft Clutch Gear Puller

Use this tool to remove the starter clutch gear without damaging the gear or shaft.

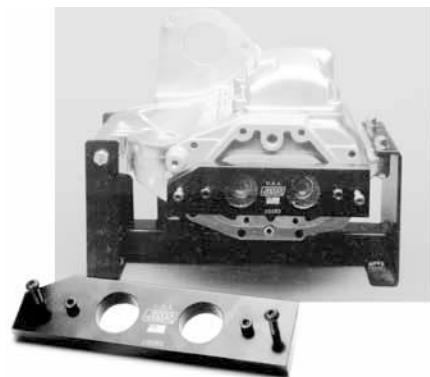
31576 BT 4 speeds 1936-86 with kick starter



Jims 5 Speed Transmission Shaft Installer

Allows transmission shaft to be installed without the use of a hydraulic or arbor press.

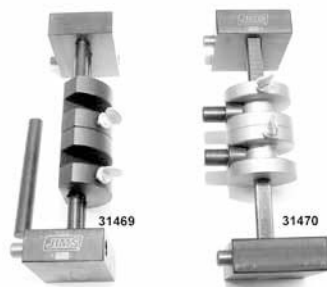
31574 5 speed transmissions



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 Shift Fork Guages

31469 BT 1939-78 (96384-39)

31470 BT 1979-on (96385-78A)



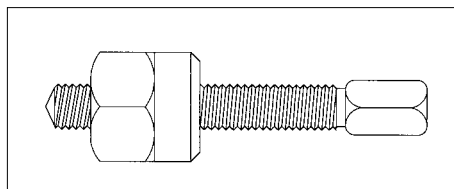
Shifter Fork Guage

Used for setting and aligning Harley Big Twin Shifter forks.

PCP Fits

2847 Big Twin shifter forks 1939-78 w/4-speed trans (96384-39)

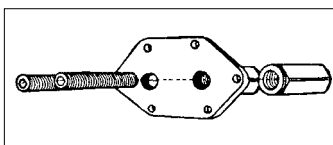
2848 Big Twin shifter forks 1979-84 w/4-speed trans (96385-78A)



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.

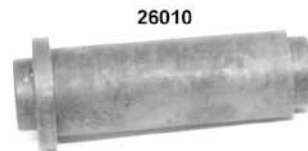
5817



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.

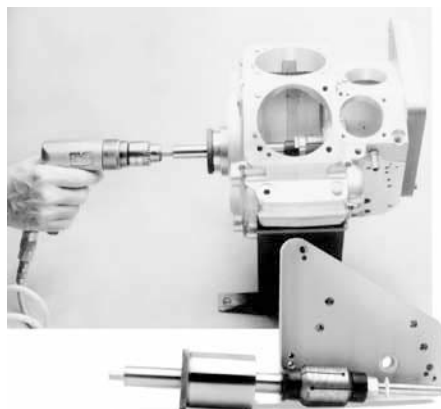
26021



Bushing Installers

PCP Application

26010 Kicker BT 1936-84

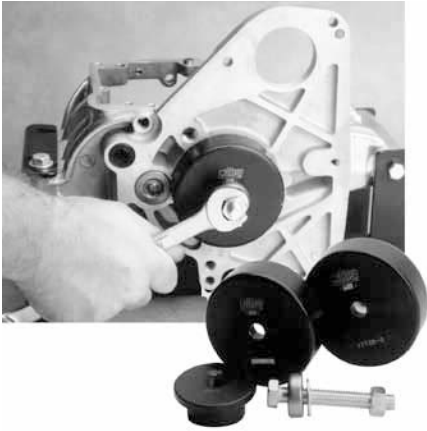


Jims Twin Case Lap Tool

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.

31472

Transmission Tools



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



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



Jims Transmission Main Drive Gear Bearing Tool

Install main bearing to the factory depth.

31439 BT 1979-86 4 speeds



Jims 5 Speed Main Drive Gear Bearing and Seal Installer

Use to install both bearings and the seal on the clutch side.

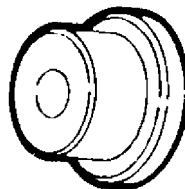
31446 BT 5 speeds 1980-90



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



5-Speed Main Drive Gear Bearing and Seal Installer

Replaces 34734 for 1980-90 BT.
5899



XL Trans Mainshaft Bearing Installer

Replaces 34810, aligns and installs bearing without damage to case or bearing, use with our handle.

5887 Installer

5861 Driver handle



Jims Race and Bearing installer Tool Handle

Approximately 12" long, use for tools #31459, 31460, 31485, and 31486
31438



XL Trans Mainshaft Bearing Installer

Replaces 34810, aligns and installs bearing without damage to case or bearing. Use with our handle.

26023

Transmission Tools



Jims 4 Speed Transmission Main Seal Tool

Use to install and remove main seal in all 4 speed transmissions 1936-76, as well as installing all other BT main seals. This tool will push the seal in as flat and straight as possible to .050" below housing for a no leak fit.

31410 BT 1941-79



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.

31568 BT 1980-84



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 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)



Main-Drive Gear Bushing Tool

For replacing OEM 35094-31 and 35094-65 bushings.

2827



Main Drive Gear Bushing Tool

Jims, use to remove and install the main drive gear bushings. Also removes BT cam bushing on 1970-on models.

31430 BT 1936-86 4 speeds



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.

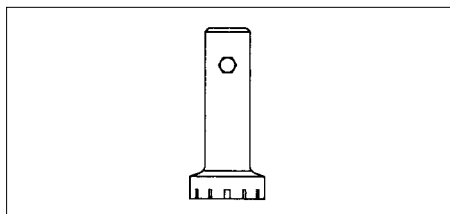
31571 BT 1982-86



Transmission Work Stand

Fits FL 41-84 and FX 71-84.

26068



Counter Shaft Sprocket 4th Gear Nut Tool

Nut wrench. Replaces OEM 94660-37.

PCP Models

3121 1937-84 4-speed 74 & 80

5821 1937-73 45" models-SV

5822 1979-on 5-speed 80"

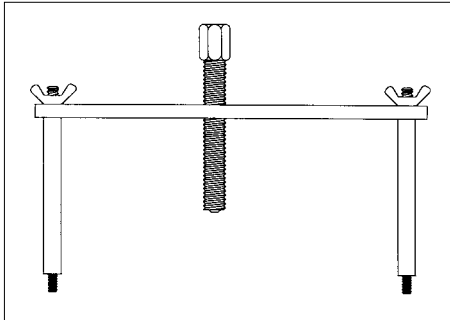
Transmission Tools



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



Jims Sportster Clutch Hub Compressor Tool

Compresses late model clutch spring when assembling or disassembling clutch. Replaces OEM 97178-71. Fits all XL's 1971-84.

31481



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



Clutch Puller

Pulls the clutch hub on Harley Big Twins and 45's. Works with either 3, 5 or 10 finger clutch hubs. Also pulls the motor sprocket on Sportsters and Big Twins, the transmission sprocket on Sportsters and the rotor assembly on Big Twins 1970-84 (except diaphragm clutch). Replaces 95960-41A.

2858



Jims Clutch Lock Plate

Use to lock clutch shell to clutch hub for removal or installation of clutch hub nut.

31578 BT 1941-84

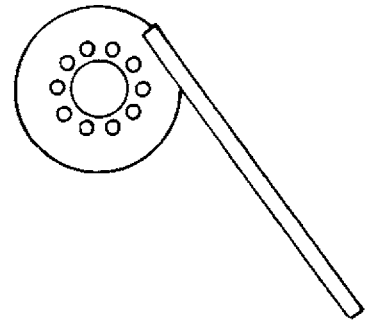


Jims Clutch Hub Puller Tool

Lettered on face 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



BT Clutch Holding Tool

Keeps the clutch hub from turning on all Big Twins 1936-on (except models with diaphragm clutch) when removing the clutch hub nut. Solidly constructed for years of dependable service.

5826



Colony Countershaft Sprocket Locknut Wrench

Replaces 12023-X wrench used on sprocket locknut. For 1915-91 BT.

72683

Transmission Tools



Ratchet Plate Riveting Fixture

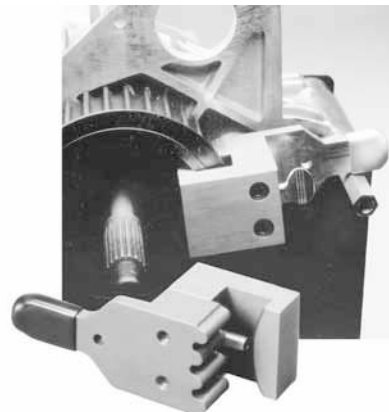
Securely holds plate to drum while setting rivets on 1971-79 XL clutch drum.

26014 Align tool



Barnett 4 Speed BT Clutch Remover

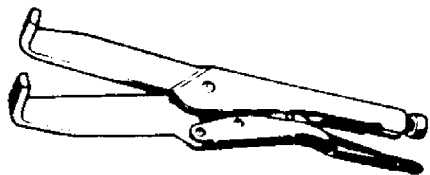
26051



Jims BT Sprocket Locker

Use to lock final drive sprocket. For removing and installing sprocket nut. Use with no. 31464.

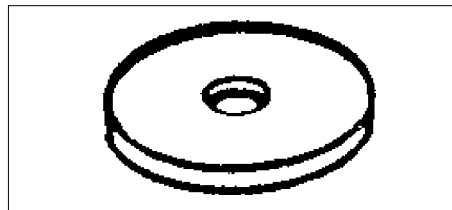
31581 BT 1980-on belt driven



Clutch Holding Tool

When applying nut torque during reassembly, this tool is used to prevent the rotation of clutch shells, and final drive sprockets (supercedes HD 97173-71 and HD 97175-55 clutch lock plates.) Used for early 1984 and earlier XL's.

26022



74-80 Clutch Pack Removal Tool

This simple, inexpensive tool simplifies the task of relieving the clutch spring tension on Big Twin models. Remove clutch pushrod adjusting screw locknut, place tool over screw, replace nut, and turn down until stud adjusting nuts are free. Reassemble with ease.

1173



BT Alternator Rotor Puller

The puller uses the sprocket shaft end to centre and the two threaded holes in rotor for rotor removal.

26076

SEAL DRIVER



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



Colony Starter Crank Bushing Installation Tool

This tool simplifies the installation or removal of bushings on 1937-67 BT. Use with Colony bushings 72762.

72764



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

Chassis Tools



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
530452	Jet installer and removal tool on all B & E carbs



Oversized Drain Plug and Tap Kit

Contains 1 chrome plated dome head plug with an oversize thread and one tap for rethreading 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



Belt Tension Gauge

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

26016

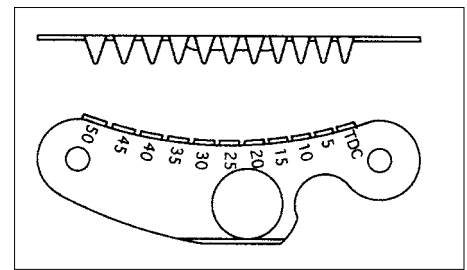


Jims Outer Primary Cover Starter Bearing Remover Tool

Easily removes bearing, even if cover has been chromed with bearing installed.

31577 BT, XL and covers that use bearing OEM# 9063

Note: Also c/shaft bearing 1977-on 4 Speeds and XL 4 speed gear.



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



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



Big Twin Final Drive Tool

Tool fits final drive pulley, to ensure that the nut can be properly set to torque specifications. Replaces OEM 41184.

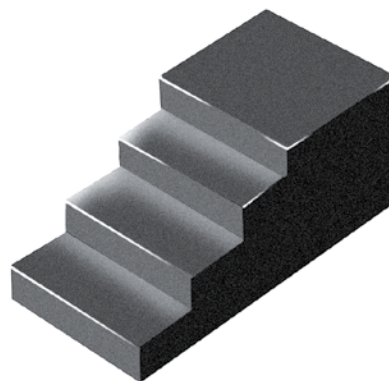
26104



Link Press Tool

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

26012



Primary Drive Locking Tool

Jims, use on all primaries between front primary chain and motor sprocket.

31579 Made from black Delrin

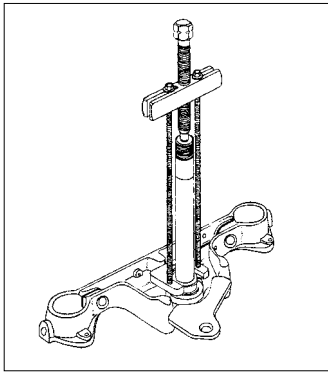


Saddlebag Latch Rivet Tool

Use to fasten rivets.

26037

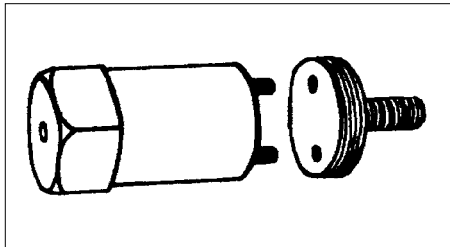
Chassis Tools



Lower Neck Bearing Puller

Includes cross arm puller, rods and lower puller claw. Simply remove roller from old bearing, install claw and turn puller.

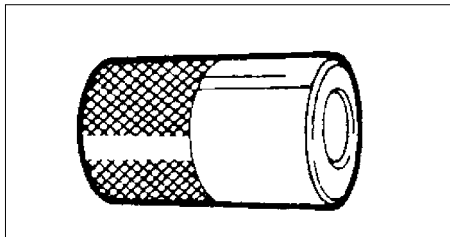
26106



Fork Tube Spring Retainer and Pin Wrench Kit

These replacement fork tube spring retainers will fit all 1952-72 Sportsters. This kit includes one handy pin wrench for proper installation and removal of retainers.

5126 Kit



Fork Bushing & Seal Installer

Installs bushing and seal without damaging components.

PCP Application

5883 FXRT 1983-on, XR 1983-on, XL 1984-on (39mm) (34190)



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 indestructible cap (2 pce kit)



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



Glide Fork Nut Tool

Install and remove Glide 49-69 front fork stem nut. Hollow tube presses bearing to seat.

26044 FL 49-69



Jims Steering Head Bearing Race Remover Tool

Use to remove and install steering head bearing race.

31583 BT 1949-on, XL 1978-on

31557 Race spacer only

31438 Driver only



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 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

Chassis Tools



Shock Absorber Tool

Replaces 97010-52A to simplify shock absorber disassembly or assembly. Holds spring in compression while disassembling parts. Includes 97019-52A block. A serious shop tool!

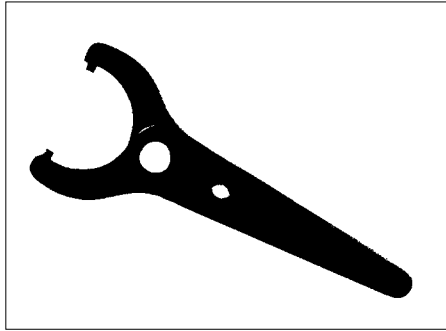
5865



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.

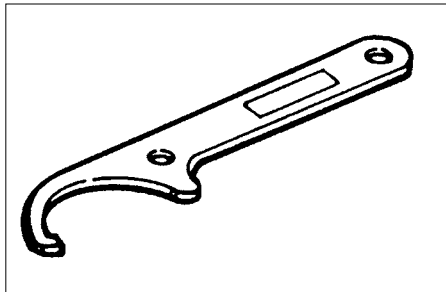
31564 Use on FLT 1980-on, FXR 1982-94 and all aftermarket FXR style frames



Shock Spanner Wrench

Heavy duty steel shock wrench for easy adjustment of spring compression for rear shock absorbers. For use on FX, FL and XL. OEM 94700-52B.

PCP Application
2836 1952-74 Sportster (scissor type)
1958-81 FL-FX



FXR-FLT L1979-on Shock Tool

Replaces 94409-78 and 94448-82, use on 1979-on FXR-FLT and XLH-XLS-XLCH zinc plated.

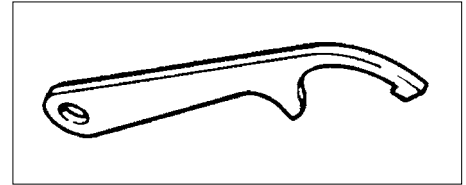
PCP Fits
1319 1979-on Sportster
1979-on FXR-FLT



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.

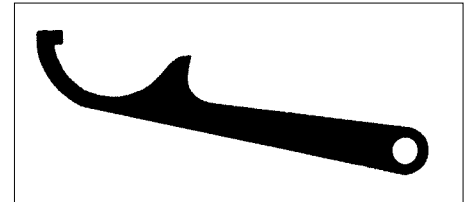
31563 For use on BT 1980-on



FLH Late Shock Tool

Adjust shocks on 1978-85 FL-FLH. Replaces 94408-78 and 94444-82, zinc plated.

PCP Fits
1317 1978-85 FL-FLH,
1978-85 FX-FXE



XLH-XLCH Shock Wrench

Late type spanner for adjusting shock load on gabriel type units 1975-78. Replaces 94820-75.

2837



5 Speed Swing Arm Spreading Tool

26070



Lower Fork Bearing Press Tube

Tool slides over 1" stem and presses down to seat bearing.

26043

General Tools



Wheel Lug Wrench

Works with allen type lug bolts.

5845 BT 1935-72 (94621-35)

26143 FLT 1982-on (3/8" hex)



Rowe Truing Stanchions

Roller stanchions for use with Rowe wheel truing stands. Made in U.S.A.

26027 Roller stanchions



Super Tire Tool

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

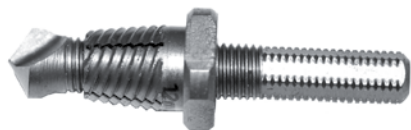
3546



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



Wheel Bearing Greaser

Patented fitting & spigot will grease 1973-99 tapered bearings without removing seals.

5811



Wheel Bearing Wrench

Removes the slotted lock nut on spoke wheels. Sportster and 1967-72 Big Twins. Replaces OEM 94630-67.

1891



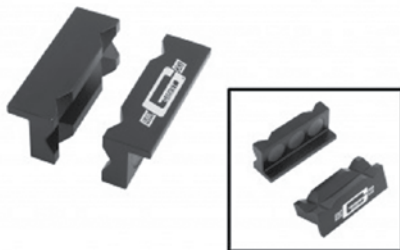
Spoke Nipple Wrenches

PCP Application

5849 Universal to fit spoke nipples, sized one to six

72693 BT, 45" & Servi-car interchangeable wheels
45" solo front 16" wheel
(12033-39)

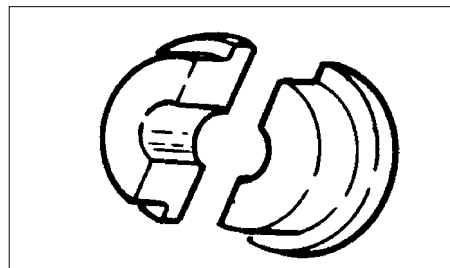
72662 Larger size for 1980-on metric spoke nipples



Aluminum Vise Jaws

Black anodized billet aluminum 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



Wheel Race Puller

Replaces service tool 33071, for hubs with tapered races 1973-on. All models.

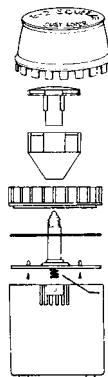
5824



Jims Wheel Bearing Race Tool

1973-on

31437



Put **E-Z SQUEEZE** on solid surface. Squeeze with hands for 4 seconds or until new grease appears on top of bearing.

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



5809

Special Taps

PCP	Thread	Use
5803	3/8 x 20	1930-72 Brake drum grease fitting (9851)
5804		
5805	7/16 x 16	UL-VL-45 Head bolt
5806	1/4 x 24	Timing & trans top
5807	13/16 - 24	1931-35 H Bars
5808	7/8 - 24	1936-48 H Bars

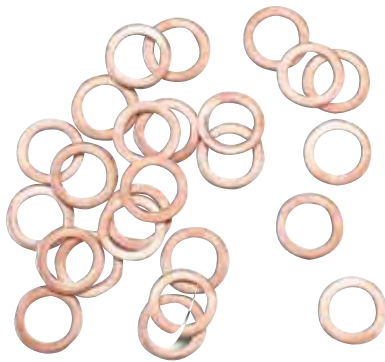
General Tools



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.

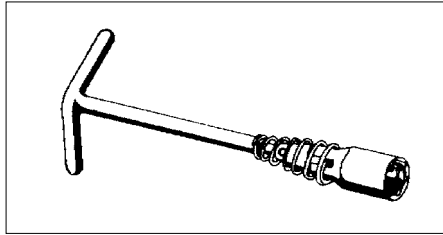
25283 For use with PCP 26125 spark plug indexer



Brake Cylinder Hone Tool

Use on FL, FX 1958-72.

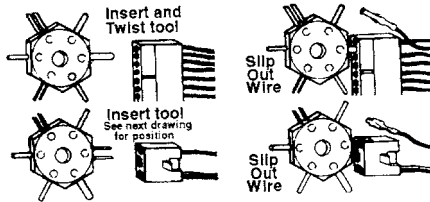
26050



Swivel Spark Plug Wrench

Patented design for all 12 & 14mm plugs. 180° rotation.

26020



Wire Terminal Tool

Quickly and easily depresses lock tabs on terminal pins and sockets to ease wiring harness disassembly.

PCP Fits

26054 1971-90 XL, 1973-90 BT (97362-71)



Fork Stem Dies

Round type adjustable high speed die, used to restore damaged or mistreated threads on all fork stems.

5809 1936-84 Big Twin 1" x 24T FL-FLH

5810 1971-84 FX-FXE 1954-85 XL 7/8 x 24T

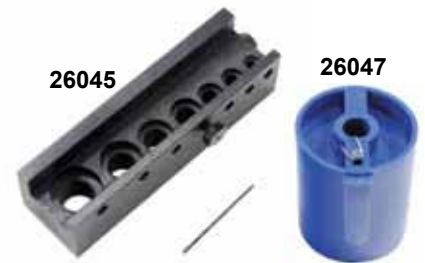


Special 1/4" Tap

1/4 x 24 thread, for retaping early timing cover, or trans top screw holes, which are this in between thread. U.S.A. made.

5806 Tap

1318 Die



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)



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



Jims 41mm Fork Seal Slider

Lightly grease slider to install fork seals, dust seals and chrome caps.

31507

General 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 late 83-84 Sportster. Replaces 34816.

26031



Hose Clamp Tool

OEM type clamp closing tool.

5870 Crimping tool (97087-65A)



Flex Hone for 5/8" Master Cyl.

Designed for low speed operation using 3/8" drill.

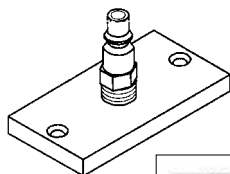
26119 For 5/8" master cylinder



"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



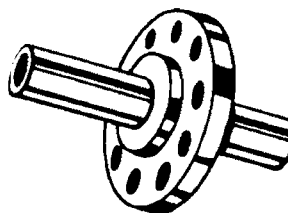
Low Pressure Master Cylinder Bleeder Covers

Will allow one person to bleed brake lines or to check system for leaks and can drain the entire system to replace brake fluid.

26128 Front 1972-81

26129 Front 1982-95

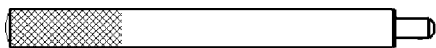
26130 Custom rear Jay Brake



Brake Drum Turning Arbor

Use on 1958-on 74" brake drums. Replaces OEM 97280-60A.

5825



Driver Handle

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

5861



TDC Indicator

14mm tool is used to locate top dead center of piston with heads on engine, when degreasing the cam shaft.

26008



Gasolila 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

Crane Cam Tuning

34545 Top dead centre piston stop



Gasgacinch Gasket Sealer

Sold as 4 oz. can.

59476



Front Axle Wrench

• Use on 1-5/16" front axle

26077