

# HARLEY-DAVIDSON®



*Builders Tools*  
*By*







# Cam Chest

## MILWAUKEE-EIGHT® CAM BEARING REMOVER AND INSTALLER

Remove and install inner cam bearing on Milwaukee-Eight® engines with one precision tool. The remover tool ensures that the bearing rollers won't drop into crankcase. The installation driver sets the cam bearing to its proper depth.

- A** No. **7001** - Use on 2017-present Milwaukee-Eight® Engines



## TWIN CAM INNER CAM BEARING REMOVERS

This precision tool simplifies removal of the inner cam needle bearings with no risk of damage to the case. The design of the puller tool ensures the needle bearing comes out intact, with no chance of needles falling into the crankcase.

- B** No. **94078-09** - For use on 2000-06 FXST, 1999-05 FXD, and 1999-06 FL's.
- C** No. **94144-09** - For use on '06-later Dyna® and '07-later Softail®, Touring and Trike models.



## TWIN CAM INNER CAM BEARING INSTALLER TOOL

This tool is designed to install the inner camshaft needle bearings into their bores. Manufactured from hardened tool steel, this precision tool presses the needle bearings to their proper depth.

- D** No. **94107-09A** - For use on '99-later Twin Cam engines featuring both early and late model inner cam bearing designs.



## TWIN CAM CHAIN TENSIONER TOOL

This tool is necessary for any camshaft work, it unloads and retains the spring loaded cam chain tensioners found on early Twin Cam models.

- E** No. **94075-09** - For use on 1999-2005 Dyna®, 2000-2006 Softail®, and 1999-2006 Touring models.



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**A**



## TWIN CAM CAMSHAFT REMOVER AND INSTALLER

This cam tool for the Twin Cam 88® based engines aligns the cam plate and camshafts to press the bearings and camshafts into their bores.

- A** No. **94085-09** - For use on '99-'05 Dyna®, '00-'06 Softail® and '99-'06 Touring models.



## CHAIN LOCK (CAM & CRANK SPROCKET LOCK TOOL)

This tool locks the cam chain sprockets, enabling disassembly, reassembly, and torquing of sprocket and pinion shaft bolts for camshaft service on Twin Cam models. The tool is made of Delrin® to protect the sprocket's teeth and finish.

- B** No. **94076-09** - For use on roller chain models, 2006-present Dyna®, 2007-present Softail®, and 2007-present Touring models.

- C** No. **94077-09** - For use on silent chain models, '99-'05 Dyna®, '00-'06 Softail® and '99-'06 Touring models.



**B**



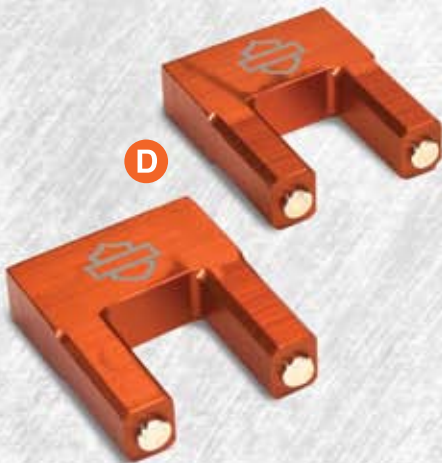
**C**

## MAGNETIC LIFTER HOLDERS

Simplify engine cam swaps. During rebuild, the lifters drop down onto the cam lobes, making it difficult to remove or install the cam. This clever tool uses strong magnets to hold the lifters up and out of the way while removing or installing the cams. Manufactured from 6061-T6 billet aluminum, these handy tools are orange anodized to make them easy to find in a crowded tool chest. Sold in pairs.

- D** No. **93979-10** - For use on '99 and later Twin Cam models.

**D**



## PUSHROD TUBE CLIP REMOVER AND INSTALLER

This tool is the best way to remove and install pushrod retaining clips on all Harley-Davidson® collapsible pushrod tubes. Designed with surface finish protection in mind, the composite tool's handle provides a sure and solid grip.

- E** No. **94086-09** - For use on Harley-Davidson® collapsible pushrod tubes.

**E**



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# Cylinder Head and Valve

## VALVE SPRING COMPRESSOR TOOL

This tool is necessary for removing or installing valves. The hardened ball bearing style tip at the valve head end eliminates damage to valve. Comes with new valve collar receiver for safer tool usage and can be clamped in vice.

- A** No. **7015** - Use on all OHV Big Twins and XL's to 2003. Use on all Buell™ models to 2002. Use on all Big Twin S.E. Models to present.

*NOTE: For Beehive Springs, use No. 7016 Collar. For Milwaukee-Eight® engines, use No. 7003 Collar.*



## MILWAUKEE-EIGHT® VALVE SPRING COLLAR ADAPTER

Adapt the Valve Spring Compressor Tool No.7015 to work on Milwaukee-Eight® valve springs.

- B** No. **7003** - Use on 2017-present Milwaukee-Eight® engines



## CONICAL (BEEHIVE) VALVE SPRING COLLAR ADAPTER

Adapt the Valve Spring Compressor Tool No.7015 to work on conical valve springs (Beehive) H-D® No.18245-02 or H-D® No.18245-02.

- C** No. **7016** - Use on all 2005-present Big Twins, except CVO™ models. Use on all 2004-present XL models. Use on all 2003-2010 Buell™ (except 1125R).



## EXHAUST GASKET INSTALLER

No longer do you need to fight to install fragile exhaust gaskets. You'll never worry about an exhaust leak again. This tool can be used with exhaust flange nuts and will position the gasket evenly into the exhaust port of the head. The tool is two sided and designed to work with both OEM and Screamin' Eagle® gaskets.

- D** No. **7007** - Use on all 1984-present. Milwaukee-Eight®, Twin Cam, Evolution®, Big Twin and Sportster® Engines.



## MILWAUKEE-EIGHT® AND TWIN CAM HEAD HOLDING TOOL

This cylinder head holding tool fits both Twin Cam and Milwaukee-Eight® engines with its unique, two-sided design.

- E** No. **7006** - Use on 2017-present Milwaukee-Eight® engines and 1999-present Twin Cam engines.



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# Primary & Driveline



## PRIMARY LOCK BAR

(LATE TWIN CAM, DYNA® AND SOFTAIL® models)

This tool is designed to keep the primary drive sprockets from rotating during the installation and removal of compensator sprocket nut or clutch hub nut. The tool is easily inserted into the primary drive sprockets and wedges in place to restrict movement.

- A** No. **14900002** - For use on '06-later Dyna® and '07 Later Softail® models

## PRIMARY LOCK BAR

(LATE TWIN CAM TOURING)

This tool is designed to keep the primary drive sprockets from rotating during the installation and removal of compensator sprocket nut or clutch hub nut. The tool is easily inserted into the primary drive sprockets and wedges in place to restrict movement.

- B** No. **94102-09** - For use on '07-later Touring and Trike models.

## PRIMARY LOCK BAR

(EARLY BIG TWIN & EARLY TWIN CAM)

This tool is designed to keep the primary drive sprockets from rotating during the installation and removal of compensator sprocket nut or clutch hub nut. The tool is easily inserted into the primary drive sprockets and wedges in place to restrict movement.

- C** No. **7014** - Use on all 4-Speed Big Twins and 5-Speed Evolution®, Softail® and Dyna® models. Use on Twin Cam 1999-2005 FXD, 1999-2006 FL and 2000-2006 Softail® models.

## XL PRIMARY LOCK BAR

This tool is designed to keep the primary drive sprockets from rotating during the installation and removal of compensator sprocket nut or clutch hub nut. The tool is easily inserted into the primary drive sprockets and wedges in place to restrict movement.

- D** No. **7020** - Use on 2004-present XL 1200 models.

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# Primary & Driveline

## FINAL DRIVE PULLEY LOCK

Locks the transmission final drive pulley so you can remove the sprocket nut. Fits belt pulley precisely to ensure there is no pulley damage during service. Use with Mainshaft Sprocket and Pulley Locknut Removal Tool.

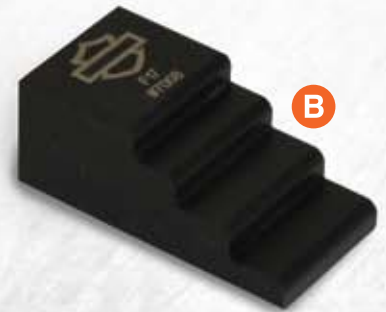
- A** No. **14900003** - For use with '80-later Big Twin, Twin Cam, and Milwaukee Eight® models.



## PRIMARY DRIVE LOCKING TOOL

This tool is designed to keep the primary drive sprockets from rotating during the installation and removal of compensator sprocket nut or clutch hub nut. The tool is easily inserted into the primary drive sprockets and wedges in place to restrict movement.

- B** No. **7008** - Use on all primary drives except 2006-present Dyna® and 2007-present Touring and Softail® models.



## EARLY LOCK NUT WRENCH

This extended length socket is designed to fit over the transmission mainshaft, simplifying the removal and installation of the pulley locknut. Made from hardened tool steel the socket includes a guide that threads onto the mainshaft, keeping the socket true to the locknut during removal and installation.

- C** No. **94137-09** - For use on '84-'99 Evolution® 1340-equipped models and '99-'05 Dyna®, '00-'06 Softail® and '99-'06 Touring models.



## LATE LOCK NUT WRENCH

This extended length socket is designed to fit over the transmission mainshaft, simplifying the removal and installation of the pulley locknut. Made from hardened tool steel, the socket includes a guide that threads onto the mainshaft, keeping the socket true to the locknut during removal and installation.

- D** No. **94141-10** - For use on '06-later Dyna® and '07-later Softail®, Touring and Trike models.



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# Fork Cap, Pedal & Ignition



## FORK CAP INSTALLATION TOOL

This tool allows easy fork tube cap installation while the fork assembly is on the bike. No more struggling to rotate the fork cap and starting the thread while compressing the fork spring. Just clamp the tool onto fork tube, then compress spring with two bolts. This tool can also be used with fork assemblies removed from chassis. For models with 49mm fork tubes.

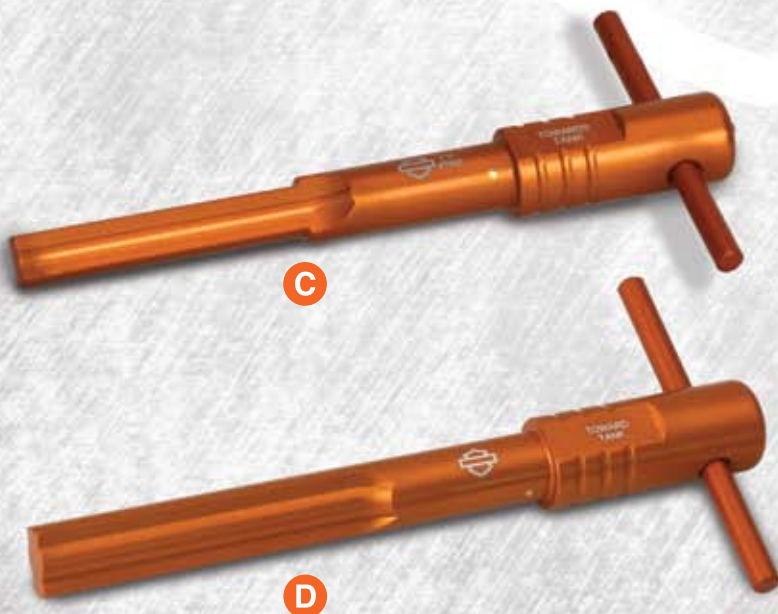
- A** No. **7004** - Use on 2002-present VRSC, 2006-present Dyna® and 2014-present Touring models with 49mm fork tubes.



## SHIFTER PEDAL SHAFT BUSHING REMOVER AND INSTALLATION TOOL

Replace those old, worn out bushings and put an end to that rattling shift lever common on Touring models. This tool will remove and install shifter pivot shaft bushings located on inner primary housing. There is no need to remove inner primary housing for this service.

- B** No. **7012** - Use on 1985-present Touring models with shifter pivot on inner primary case.



## IGNITION SWITCH HOUSING ALIGNMENT TOOLS

Use to align ignition switch internals and move ignition switch when the locking knob is removed for service.

- C** No. **7010** - Use on all FL Touring Models 2003 to present that have an H-D® No.61530-03B.
- D** No. **7009** - Use on 2014-present Touring and Trike models that have an H-D® No.71400013A.

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# Seal and Race Installers

## ENGINE MAIN SEAL REMOVER AND INSTALLER

This specialty tool is designed to remove and install the crankcase main seal while the engine is still in the chassis. The unique design reduces the risk of damage to the crankshaft and crankcase. Manufactured from hardened tool steel, the kit includes adapters required for use on both Twin Cam 88® and Twin Cam 96™ based engines.



**A** No. **14900015** - For use on '99-later Twin Cam engines.

## 6-SPEED TRANSMISSION MAIN CASE SEAL INSTALLER

This driver style seal installer sets the main case seal to proper depth for a leak-free seal installation every time. This precision tool does not stress the main bearing or main drive gear to protect seals and inner needle bearings.

**B** No. **7021** - Use on 6-speed Cruise Drive® Transmissions on 2006-present Dyna® and 2007-present Touring and Softail® models.



## TRANSMISSION MAIN DRIVE GEAR SEAL INSTALLER TOOL

Used to install the main drive gear oil seal to the proper depth with the transmission assembled. Comes with a protective sleeve for the seal. The sleeve can also be used when installing transmission assembly to protect main drive gear inner bearings.

**C** No. **7018** - Use on all 5-speed Big Twins and aftermarket 6-speed 1980-2006 except 2006 Dyna® models.



## HEAT STICKER (PACK OF 30)

This product is an innovative tool that will alert you when you've reached 210 degrees Fahrenheit. At this temp you should cease heating a mainshaft, flywheel sprocket shaft, motor, or transmission case to remove a stubborn bearing, studs, race, or gear. Just apply heat strip next to the race on the shaft you're heating and watch the strip change color as you reach 210 degrees Fahrenheit.

**D** No. **94146-10**



## FORK RACE INSTALLER

Install bearing races and neck cups into all frame's steering stem except 2014-present Touring and Trike models.

**E** No. **7013** - Use on all models, including V-Rod® models. (Not for 2014-present Touring and Trike models.)



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# Sockets & Wrenches



## 1/2" ACR REMOVAL SOCKET

This socket is designed for removal and installation of Harley-Davidson® Automatic Compression Release solenoid.

- A** No. **94048-09** - For all Harley-Davidson® models equipped with Screamin' Eagle® Automatic Compression Release No.28861-07A, except Milwaukee Eight® engines.



## OXYGEN SENSOR SOCKET

This specially designed socket has a cutaway to clear the wiring of the oxygen sensor. For proper removal and installation of oxygen sensors, this socket features a 3/8" drive and is tough enough to withstand the high torque applied to these sensors.

- B** No. **7023** -For use on '12-later VRSC™, '14-later XL, '12-later Dyna® and Softail® and '10-later Touring and Trike models.



## FORK NUT SOCKET

3/8" drive design fits the rectangular fork plug. Eliminates possible burring of plug caused by wrenches.

- C** No. **7011** - Use on 1948-present Wide Glide® models that use two piece fork plug and cap design.



## 35MM TOP FORK NUT SOCKET

Use to remove or install top fork nut on glide forks. The socket has a rubber protector on the inside to prevent damage to the chrome nut (Will clear most handlebars).

- D** No. **7019** - Use on all Sportster® and Big Twin Models with 35mm top fork nut.



## 14MM OXYGEN SENSOR WRENCH

This tool is a must for removing and installing H-D's 4 wire heated Oxygen Sensors. The wrench is designed to be used with a 3/8's" drive torque wrench, torquing it to 14 ft-lbs.

- E** No. **7022** - For use on 2010-present FLH, Touring Models.

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# Stands & Mounts

## MILWAUKEE-EIGHT® ENGINE STAND

Our heavy duty steel engine stand for Milwaukee-Eight® engines serves two purposes. It can be used as an engine display stand for complete engines, and is a necessity for engine teardown and assembly. The stand is powder coated for longevity, it can be bolted to your workbench for added stability.

- A** No. **7002** - Use on 2017 -present Milwaukee-Eight® Engines.



## TWIN CAM ENGINE STAND

This steel, powder coated stand is indispensable for all your Twin Cam engine repairs.

- B** No. **7017** - Use on Twin Cam Alpha engines 1999-present.
- C** No. **7024** - Use on Twin Cam Beta Engines 2000-present.



## FUEL TANK WALL MOUNT

When a fuel tank is removed for service, it must be stored in a safe place to prevent paint damage, dents or dings. Because fuel tanks are bulky and awkward, this wall mount is a great solution for storing fuel tanks while work is in progress. It can also be used to hang a fuel tank on the wall for decorative purposes. Either way, this fuel tank wall mount will protect your fuel tank and look great doing it.

- D** No. **7005** - Use on most one piece fuel tanks that use 1/4" or 5/16" hardware to mount fuel tank to frame.



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