



FEULING®

CRANKSHAFT BEARING RACES / THRUST WASHER KITS FOR M-EIGHT AND
A AND B MODEL TWIN CAM ENGINES



10/24/25



- #5200:** TC '99-'17 A ENGINES (ALPHA) DYNA & BAGGER MODELS
- #5205:** M8 '17-'24, TC '00-'17 B ENGINES (BETA) SOFTAIL MODELS
- #5206:** M8 '17-'24, TC '00-'17 B ENGINES (BETA) SOFTAIL MODELS (w/ undersized pinion race)

#5200: Crankshaft bearing race kit for A model engines. Kit includes right and left side crankshaft races with the left side thrust washers. These FEULING press on races have a precision ground outer diameter finish and are designed to be true to size producing the correct OD after proper press on installation. Fit TC '99-'17 A Engines (Alpha Engine) Dyna and Bagger models.

#5205: Crankshaft bearing race kit for B model engines. Kit includes right and left side crankshaft races with the left side thrust washers. These FEULING press on races have a precision ground outer diameter finish and are designed to be true to size producing the correct OD after proper press on installation. Fit M8 '17-'24, TC '00-'17 B Engines (Beta) Softail models.

#5206: Crankshaft bearing race kit for M-Eight and TC B model engines. Kit includes right and left side crankshaft races with the left side thrust washers, pinion race is undersized and allows the crank to be serviced, then a new, smaller ID race installed. These FEULING press on races have a precision ground outer diameter finish and are designed to be true to size producing the correct OD after proper press on installation. Fit M8 '17-'24, TC '00-'17 B Engines (Beta) Softail models.

IMPORTANT NOTICE:

This installation should be done by an experienced mechanic who has access to a factory service manual and all required tools. Measure flywheel pinion shaft run out. Excessive pinion shaft run out will cause camplate and oil pump damage and/or failure. Excessive pinion shaft run out will void manufacturer's warranty.

CAUTION:

Incorrect installation can cause engine damage not covered under warranty. Failure to install components correctly can cause engine seizure. Engine seizure may result in serious injury to motorcycle, operator, passenger and/or others. Removal of the rocker arms and/or pushrods with the valve train loaded can damage rocker arms, pushrods, bushings and/or camplate. Rotate engine to TDC of compression stroke on the servicing cylinder.

INSTRUCTIONS:

1. Refer to the proper factory service manual for your model and year of engine, for removal and install of the crankshaft races and thrust washers.
2. Clean and inspect each new FEULING race and thrust washer prior to installation.
3. Secure crankshaft in a proper clamping device.
4. Heat bearing race, this will help aid race removal.
5. Remove bearing race using a puller.
6. Once the race is removed, clean the crankshaft area and verify that the shaft is free of burrs. Fine grit sandpaper and/or scotch-brite may be used to remove burrs if needed.
7. Place new thrust washer on the crankshaft and heat the new bearing race, heat will aid in the installation of the new race.
8. Place a small amount of green Loctite (620) around the race area of the shaft and install race on crankshaft using a sprocket shaft bearing installer.
9. If you are working on a 2003 and later Twin Cam engine with roller bearings in both case halves repeat steps 3-8 for the other side.

#5200

SUB PART #	QTY	DESCRIPTION	ID	OD	WIDTH
#309	1	A ENGINE PINION RACE, CAM SIDE	1.2504" +/- 0.0002"	1.6506" +/- 0.0002"	1.1195" +/- 0.0005"
#308	1	A + B ENGINE LEFT, SPROCKET PRIMARY SIDE	1.2504" +/- 0.0002"	1.6506" +/- 0.0002"	0.7110" +/- 0.0005"
#313	2	WASHER, QTY 2 PER KIT	1.255" +/- 0.001"	1.828" +/- 0.001"	0.1370" +/- 0.0005"

#5205

SUB PART #	QTY	DESCRIPTION	ID	OD	WIDTH
#316	1	M8 + B ENGINE PINION RACE, CAM SIDE	1.2504" +/- 0.0002"	1.6506" +/- 0.0002"	0.8735" +/- 0.0005"
#308	1	A + B ENGINE LEFT, SPROCKET PRIMARY SIDE	1.2504" +/- 0.0002"	1.6506" +/- 0.0002"	0.7110" +/- 0.0005"
#313	2	WASHER, QTY 2 PER KIT	1.255" +/- 0.001"	1.828" +/- 0.001"	0.1370" +/- 0.0005"

#5206

SUB PART #	QTY	DESCRIPTION	ID	OD	WIDTH
#315	1	M8 + B ENGINE PINION RACE, CAM SIDE UNDERSIZED ID	1.2452" +/- 0.0002"	1.6502" +/- 0.0002"	0.8735" +/- 0.0005"
#308	1	A + B ENGINE LEFT, PRIMARY SIDE	1.2502" +/- 0.0002"	1.6502" +/- 0.0002"	0.7110" +/- 0.0005"
#313	2	WASHER, QTY 2 PER KIT	1.255" +/- 0.001"	1.828" +/- 0.001"	0.1370" +/- 0.0005"



PART	DESCRIPTION
#310	A ENGINE PINION RACE, CAM SIDE
#311	M8 + B ENGINE PINION RACE, CAM SIDE
#312	A + B ENGINE LEFT, PRIMARY SIDE
#313	WASHER, QTY 2 PER KIT
#315	M8 + B ENGINE PINION RACE, CAM SIDE, UNDERSIZED ID

* STANDARD 1 YEAR WARRANTY:

- WARRANTY COVERS MANUFACTURERS DEFECTS.
- DOES NOT COVER PARTS THAT HAVE FAILED DUE TO IMPROPER INSTALLATION, MAINTENANCE, EXCESSIVE CRANKSHAFT RUNOUT, OR MISUSE.
- DOES NOT COVER ANY CONSEQUENTIAL DAMAGE RESULTING FROM A FAILURE OF A FEULING PRODUCT.

* OPTIONAL 2 YEAR WARRANTY:

- ADDITIONAL YEAR WARRANTY IS ONLY AVAILABLE IF PARTS ARE INSTALLED BY A PROFESSIONAL INSTALLER.
- THE ONLINE WARRANTY FORM MUST BE COMPLETED BY THE DEALER PRIOR TO BIKE DELIVERY.
- OIL TANK MUST BE DROPPED & CLEANED.
- CRANKSHAFT RUNOUT MUST BE BELOW 0.005"

NOTE: FOR FULL WARRANTY INFORMATION VISIT WWW.FEULINGPARTS.COM/WARRANTY



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3740 OCEANIC WAY #304, OCEANSIDE, CA 92056 | 1 (866) 966-9767 | @FEULINGPARTS