

Component Procedures: Rear Crankshaft Main Bearing Seal

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Component Procedures: Rear Crankshaft Main Bearing Seal

Parts and Labor (itype_189)

Parts

Qualifier	Part #	Name	Price	Note
Rear Main Seal	12637710	28 - Rear Main Seal	65.45	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Crankshaft & Bearings > Rear Main Seal, R&R >?	B	0.5	0.0
Remove & Replace	Crankshaft & Bearings > Rear Main Seal, R&R >?	B	0.9	0.0

Crankshaft Rear Oil Seal and Housing Replacement (Article 12166)

Special Tools

- EN-42183 - Handle
- EN-46109 - Guide Pin Set
- EN-47839 - Crankshaft Rear Oil Seal Installation Tool

For equivalent regional tools, refer to Special Tools .

Removal Procedure

- If equipped with an automatic transmission, remove the flex plate. Refer to Automatic Transmission Flex Plate Replacement .
- If equipped with a manual transmission, remove the flywheel. Refer to Flywheel Replacement
- Remove the oil pan . Refer to Oil Pan Replacement .
- Remove the crankshaft rear oil seal and housing bolts (1). Click for full-size image
- Use the pry points located at the edge of the crankshaft rear oil seal housing to separate the RTV sealant. Click for full-size image

- Remove and discard the crankshaft rear oil seal and housing (1). Refer to Crankshaft Rear Oil Seal and Housing Removal . Click for full-size image

Installation Procedure

- Install the 6 mm (0.236 in) guides from the EN-46109 pin set into the 2 crankshaft rear oil seal housing corner bolt holes of the engine block Click for full-size image
- Install the EN-47839 tool with the EN-42183 handle (1, 2) onto the rear of the crankshaft flange. Click for full-size image
- Place a 3 mm (0.118 in) bead of RTV sealant (1) to the NEW crankshaft rear oil seal housing as shown (1). Refer to Adhesives, Fluids, Lubricants, and Sealers , for recommended sealant. Click for full-size image
- Install the crankshaft rear oil seal housing (1) to the engine block. Click for full-size image
- Remove the EN-46109 pin set 6 mm (0.236 in) guides (1) from the engine block. Click for full-size image
- Install the crankshaft rear oil seal housing bolts (1). Click for full-size image
- Tighten the crankshaft rear oil seal housing bolts in sequence and tighten to 10 Nm (89 lb in) . Click for full-size image
- Remove the EN-47839 tool and EN-42183 handle (1, 2) from the crankshaft flange. Click for full-size image
- Install the oil pan. Refer to Oil Pan Replacement .
- If equipped with an automatic transmission, install the flex plate. Refer to Automatic Transmission Flex Plate Replacement .
- If equipped with a manual transmission, install the flywheel. Refer to Flywheel Replacement

All Technical Service Bulletins (itype_100)

Tsbs

- Engine - Crankshaft Rear Oil Seal Leaks (14-06-01-002A, 2014/12/01)

Customer Interest Bulletins (itype_109)

Tsbs

- Engine - Crankshaft Rear Oil Seal Leaks (14-06-01-002A, 2014/12/01)

Leaks (itype_149)

Tsbs

- Engine - Crankshaft Rear Oil Seal Leaks (14-06-01-002A, 2014/12/01)