Component Procedures: Rear Crankshaft Main Bearing Seal

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Parts and Labor (itype_189)

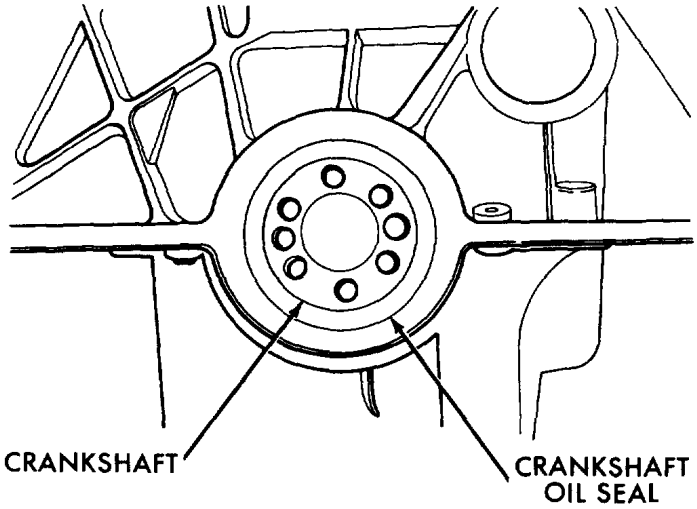
Parts

Qualifier	Part #	Name	Price	Note
Rear Main Seal	33004143	28 - Rear Main Oil Seal	38.35	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Replace	Rear Main Seal > Auto Trans	B	5.1	0.0
Replace	Rear Main Seal > Manual Trans	B	3.6	0.0

Removal and Installation (Article 2070904)



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Component Tests and General Diagnostics (itype_383)

INSPECTION FOR REAR SEAL AREA LEAKS
Since it is sometimes difficult to determine the source of an oil leak in the rear seal area of the engine, a more involved inspection is necessary. The following steps should be followed to help pinpoint the source of the leak.
If the leakage occurs at the
crankshaft rear oil seal
area:
1. Disconnect the battery.
2. Raise the vehicle.
3. Remove torque converter or clutch housing
cover
and inspect rear of block for evidence of oil. Use a black light to check for the oil leak:
a. Circular spray pattern generally indicates seal leakage or
crankshaft
damage.
b. Where leakage tends to run straight down, possible causes are a porous block,
distributor
seal,
camshaft
bore cup plugs oil galley pipe plugs,
oil filter

runoff, and main bearing cap to
cylinder block
mating surfaces.
4. If no leaks are detected, pressurize the
crankcase
as outlined in the, Inspection (Engine oil Leaks in general)
CAUTION:
Do not exceed 20.6 kPa (3 psi).
5. If the leak is not detected, very slowly turn the crankshaft and watch for leakage. If a leak is detected between the crankshaft and seal while slowly turning the crankshaft, it is possible the
crankshaft seal
surface is damaged. The seal area on the crankshaft could have minor nicks or scratches that can be polished out with emery cloth.
Use extreme caution when crankshaft polishing is necessary to remove minor nicks and scratches. The crankshaft seal flange is especially machined to complement the function of the
rear oil seal
.
6. For bubbles that remain steady with shaft rotation, no further inspection can be done until disassembled.