


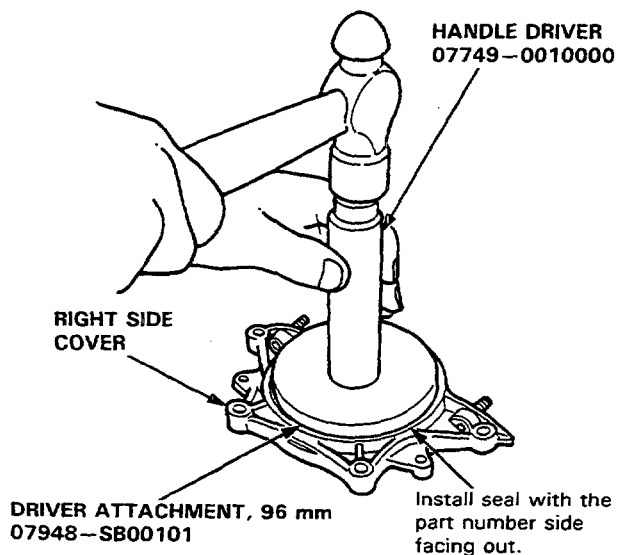
Crankshaft Oil Seal

Installation

-  The seal surface on the block should be dry. Apply a light coat of oil to the crankshaft and to the lip of the seal.

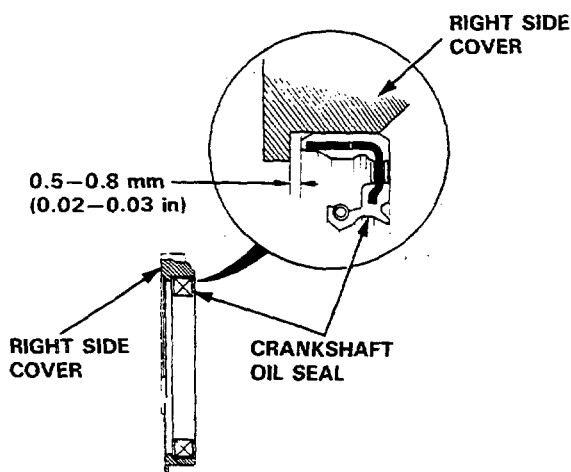
1. Drive in crankshaft oil seal against right side cover.

NOTE: Drive the crankshaft oil seal in squarely.



2. Confirm that the clearance is equal all the way around with a feeler gauge.


Clearance: 0.5–0.8 mm (0.02–0.03 in)



NOTE: Refer to page 8-12 for installation of the oil pump side crankshaft oil seal.

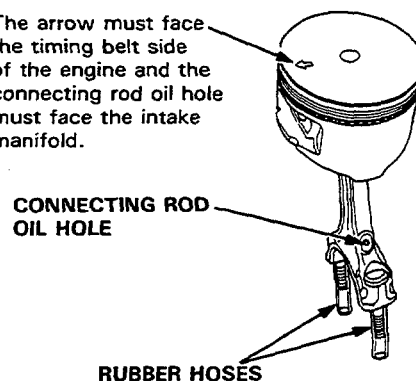
Pistons

Installation

-  Before installing the piston, apply a coat of engine oil to the ring grooves and cylinder bores.

1. If the crankshaft is already installed:
 - Set the crankshaft to BDC for each cylinder.
 - Remove the connecting rod caps, and slip short sections of rubber hose over the threaded ends of the connecting rod bolts.
 - Install the ring compressor, check that the bearing is securely in place, then position the piston in the cylinder, and tap it in using the wooden handle of a hammer.
 - Stop after the ring compressor pops free, and check the connecting rod-to-crank journal alignment before pushing piston into place.
 - Install the rod caps with bearings, and torque the nuts to:
31 N·m (3.2 kgf·m, 23 lbf·ft)
2. If the crankshaft is not installed:
 - Remove the rod caps and bearings, install the ring compressor, then position the piston in the cylinder, and tap it in using the wooden handle of a hammer.
 - Position all pistons at top dead center.

The arrow must face the timing belt side of the engine and the connecting rod oil hole must face the intake manifold.



NOTE: Maintain downward force on the ring compressor to prevent rings from expanding before entering the cylinder bore.

