




# Pistons

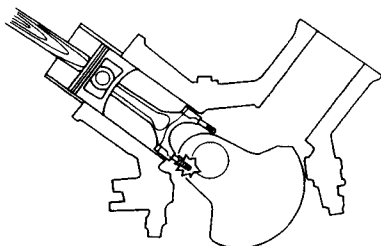
## Installation

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

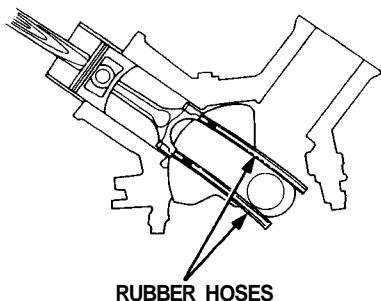
### NOTE:

- Guide the piston carefully to prevent damage.
- Fit long rubber hoses (about 30 cm (12 in) long) to connecting rod bolts to protect the crankshaft.
- Install the pistons after setting the crankshaft to BDC for each cylinder.

**INCORRECT**



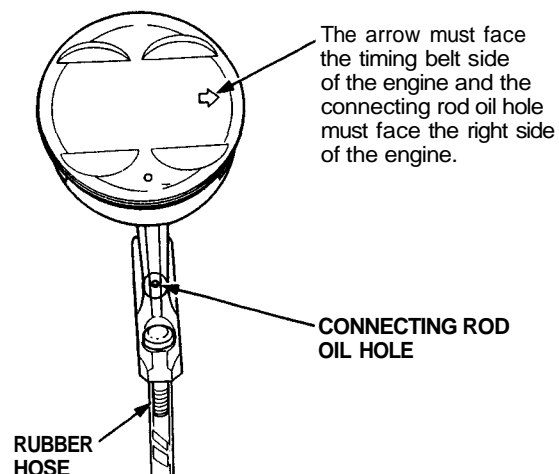
**CORRECT**



1. If the crankshaft is already installed:
  - Install the piston assemblies in No. 1 and No. 4 cylinders, No. 2 and No. 5 cylinders, and No. 3 and No. 6 cylinders.
  - Remove the connecting rod caps, then slip the long rubber hoses 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 putting piston into place.
  - Install the rod caps with bearings, and torque the nuts to 45 N·m (4.5 kg-m, 33 lb-ft).

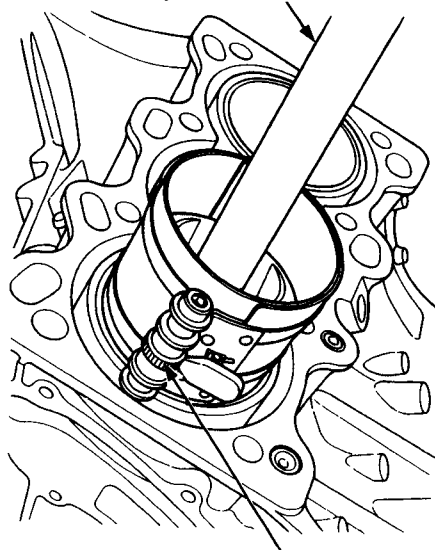
2. If the crankshaft is not installed:

- 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.



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

Use the wooden handle of a hammer to push, or tap the piston into the cylinder bore.



**RING COMPRESSOR  
COMMERCIALLY AVAILABLE**