


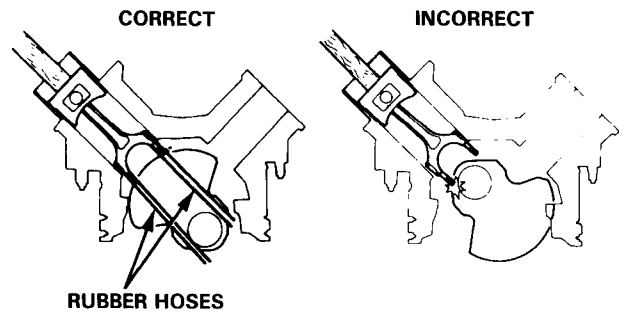
# Piston/Connecting Rod Assemblies



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



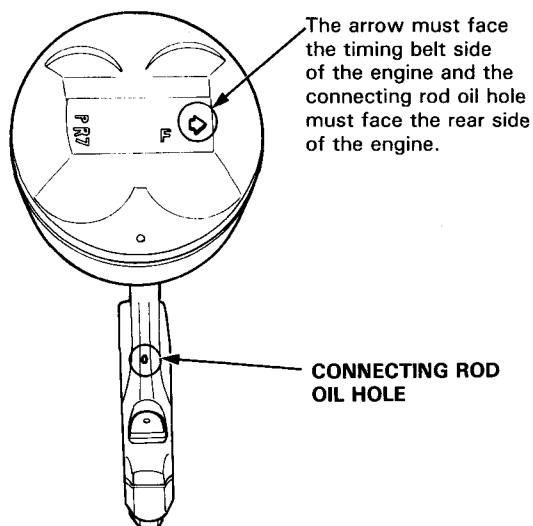
- Install the piston assemblies in No. 1 and No. 4 cylinders. No. 2 and No. 5 cylinders, and No. 3 and No. 6 cylinders.
- Install the ring compressor, check that the bearing is securely in place; then position the piston in the cylinder and tap it in using the wooden handle of a hammer.
- Stop after the ring compressor pops free and check the connecting rod-to-crank journal alignment before putting rod into place.
- Install the rod caps with bearings, and torque the nuts to 20 N-m (2.0 kgf-m, 14 lbf-ft), then turn the nut 116 degrees (see page 7-20).

(cont'd)

# Piston/Connecting Rod Assemblies

## Installation (cont'd)

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 the ring compressor to prevent rings from expanding before entering the cylinder bore.

