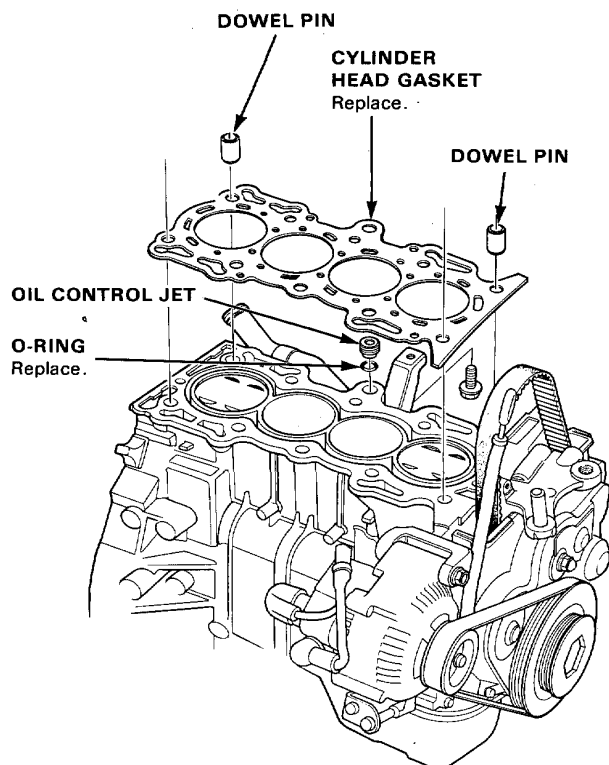


# Cylinder Head

## Installation (cont'd)

2. Cylinder head dowel pins and oil control jet must be aligned.



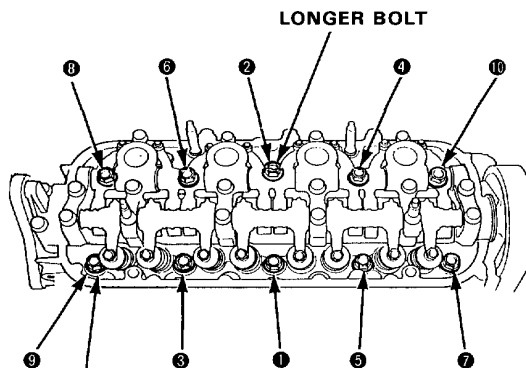
3. Install the bolts that secure the intake manifold to its bracket but do not tighten them yet.
4. Position the cam correctly (page 5-41).
5. Tighten the cylinder head bolts sequentially in three steps.

**1st step torque: 40 N·m (4.0 kg-m, 29 lb-ft)**  
**2nd step torque: 70 N·m (7.0 kg-m, 51 lb-ft)**  
**3rd step torque: 108 N·m (10.8 kg-m, 78 lb-ft)**

### NOTE:

- We recommend to use a plate-type torque wrench. When using a preset-type torque wrench, be sure to tighten slowly and not to overtighten.
- If the bolt sounds, retighten the bolt from 1st step.

## CYLINDER HEAD BOLT TORQUE SEQUENCE



### CYLINDER HEAD BOLT

12 x 1.25 mm

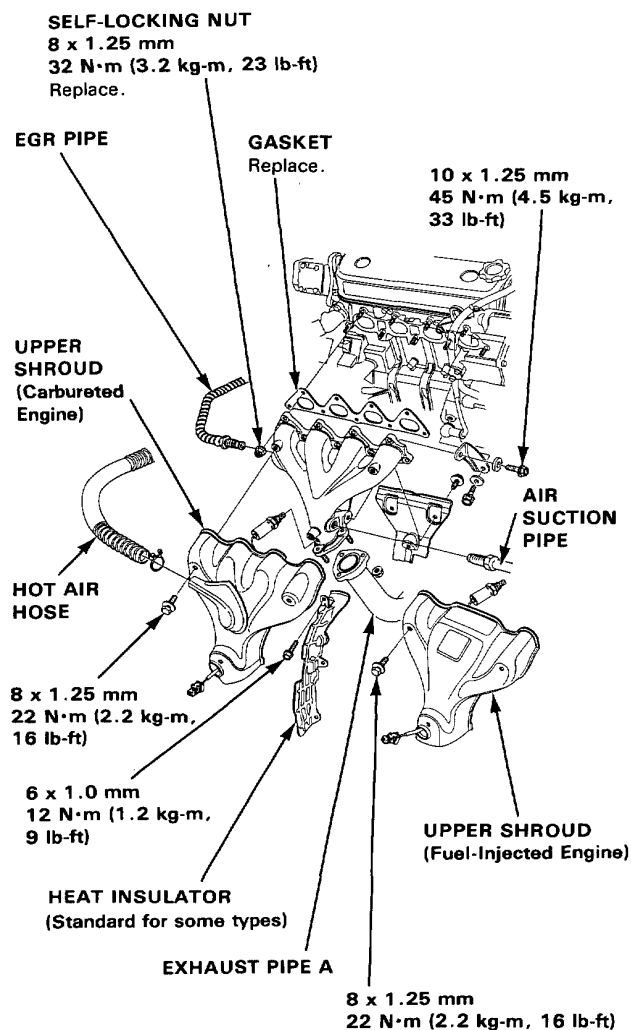
**108 N·m (10.8 kg-m, 78 lb-ft)**

Apply clean engine oil to bolt thread and under bolt heads.



6. Install the heat insulator to the cylinder head and the cylinder block.
7. Install the exhaust manifold and tighten the nuts in a criss-cross pattern in 2 or 3 steps, beginning with the inner nut.
  - Always use a new exhaust manifold gasket.
8. Install the exhaust manifold bracket, then install the exhaust pipe A and the bracket, and then install the upper cover.

except 2.2i:



2.2i:

