

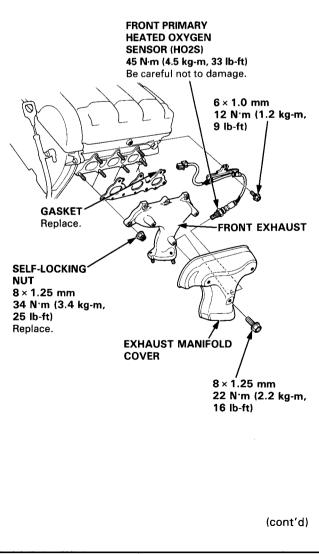
Cylinder Heads

Installation

Install the cylinder heads in the reverse order of removal:

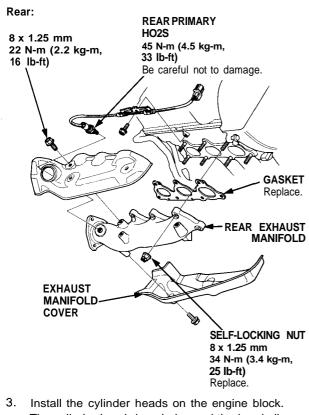
- Always use new head gaskets.
- Cylinder heads and engine block surface must be clean.
- Turn the crankshaft so that No. 1 piston is at TDC (see page 6-19).
- Do not use the middle cover and lower cover for storing removed items.
- Clean the middle cover and lower cover before installation.
- 1. Install the front and rear exhaust manifolds to each cylinder head, then tighten the self-locking nuts in a crisscross pattern in two or three steps, beginning with the inner nut.
 - Apply oil to the self-locking nut threads.
 - Always use new exhaust manifold gaskets.
- 2. Install the exhaust manifold covers.

Front:

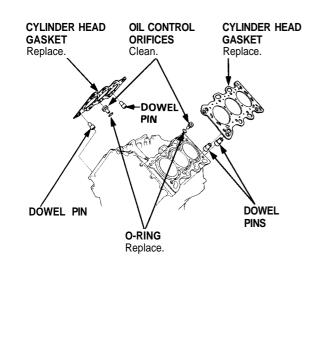


Cylinder Heads

Installation (cont'd)-



- Install the cylinder heads on the engine block. The cylinder head dowel pins and the head oil control orifice must be aligned.
 - Always use a new cylinder head gasket.
 - Clean the oil control orifice before installing.

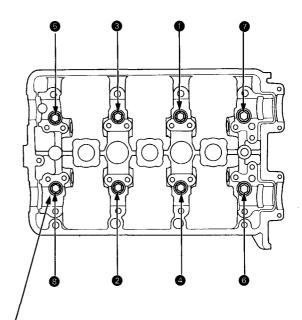


- 4. Tighten the cylinder head bolts sequentially in two or three steps.
 - Apply clean engine oil to the bolt threads and washer contact surfaces.

Specified Torque 11 x 1.5 mm 78 N-m (7.8 kg-m, 56 lb-ft)

NOTE: We recommend using a beam-type torque wrench. When using a preset-type torque wrench, be sure to tighten slowly and not to over-tighten.

CYLINDER HEAD BOLTS TORQUE SEQUENCE



CYLINDER HEAD BOLT 11 x 1.5 mm 78 N-m (7.8 kg-m, 56 lb-ft) Apply clean engine oil to the bolt threads and washer contact surfaces.