

YEAR
1992 - 94
1995 - 96

MODEL
VIGOR
2.5TL

VIN APPLICATION
ALL

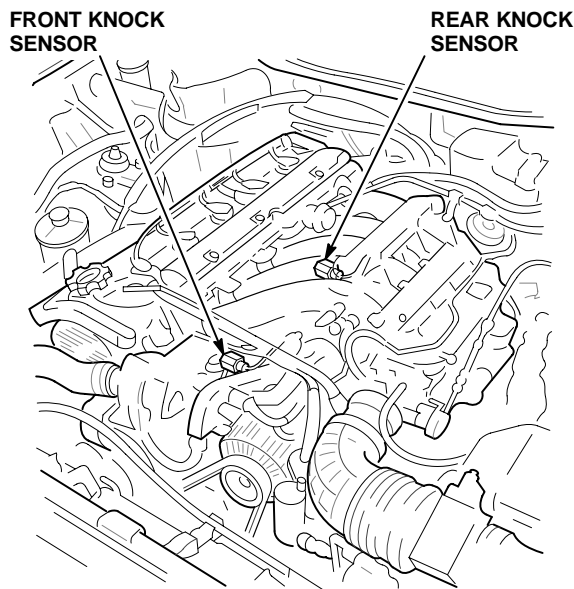
BULLETIN NO.
95-021



Service Manual Update: Knock Sensor Replacement

BACKGROUND

There is no procedure given in the service manual to replace either knock sensor. The time given in the Flat Rate Manual for replacement of the rear knock sensor allows for removal of the intake manifold, which is not necessary.



WARRANTY CLAIM INFORMATION

In warranty: The normal warranty applies.

Out of warranty: Any repair performed after warranty expiration may be eligible for goodwill consideration by the District Technical Manager or your Zone Office. You must request consideration, and get a decision, before starting work.

OPERATION NUMBER	DESCRIPTION	FLAT RATE TIME
121187	Replace front knock sensor	0.6 hour
121188	Replace rear knock sensor	0.5 hour

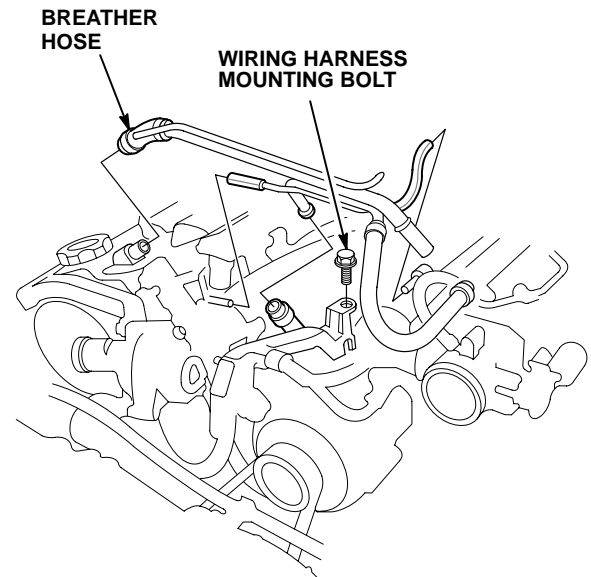
Failed P/N: 30530-P1R-A01
Defect code: Dependent on failure
Contention code: Dependent on failure

PROCEDURE

Use the procedure below, and the flat rate times given, when replacing a knock sensor.

Front Knock Sensor Replacement

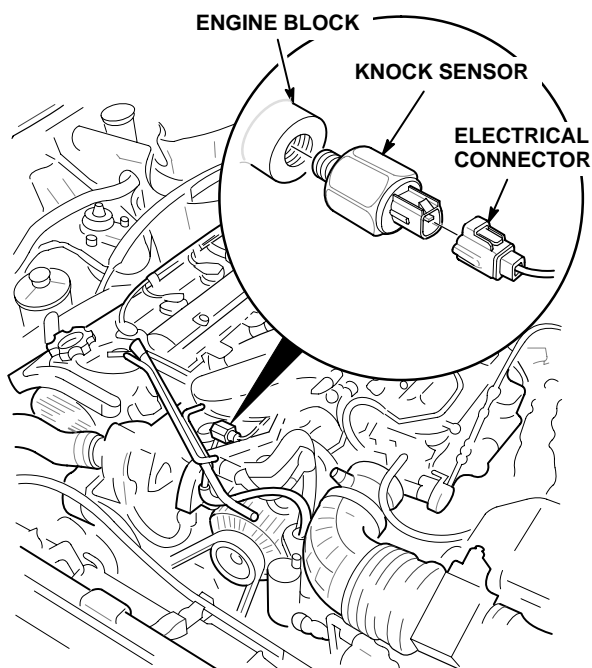
1. Get the customer's anti-theft radio code. Write down the radio station presets.
2. Disconnect the battery negative terminal.
3. Remove the breather hose. Remove the wiring harness mounting bolt. Move the wiring harness out of the way.



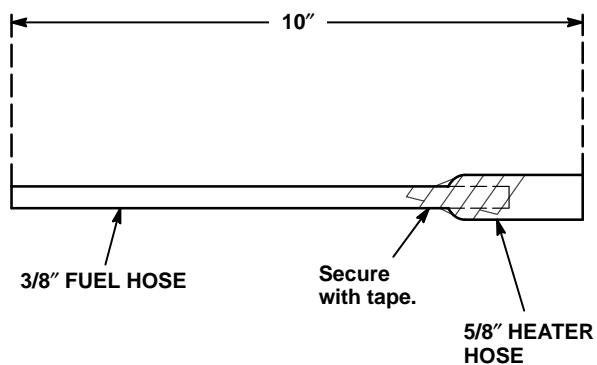
4. Disconnect the electrical connector from the front knock sensor.

NOTE: If you are not able to reach the electrical connector with your hand, use a pair of 11 inch needle nose pliers (Snap-On #911CP or equivalent).

- Use a 24 mm socket and a universal extension to remove the knock sensor.



- Install the new knock sensor, tighten it to 34 N-m (3.4 kg-m, 25 lb-ft). Reconnect the electrical connector. If necessary, make up the tool shown below to use as an aid in threading the sensor into the hole.

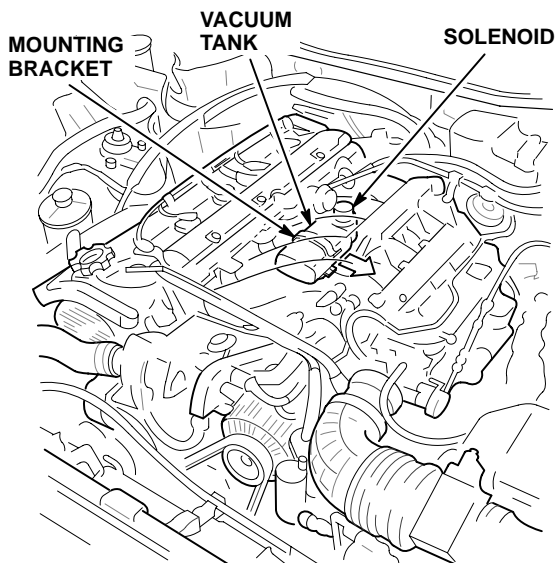


- Reinstall the wiring harness mounting bolt and the breather hose.
- Reconnect the battery negative terminal.
- Enter the radio anti-theft code and the customer's station presets. Reset the clock.

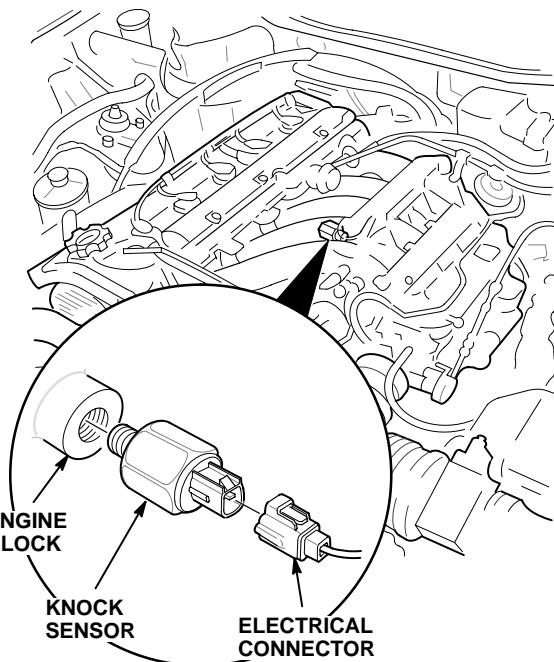
Rear Knock Sensor Replacement

- Get the customer's anti-theft radio code. Write down the radio station presets.
- Disconnect the battery negative terminal.

- Locate the intake air bypass control solenoid underneath the rear of the intake manifold. Pull the solenoid and its vacuum tank loose from their mounting bracket.



- Position the solenoid and tank so you can see the rear knock sensor. Disconnect the electrical connector from the sensor, then remove the sensor with a 24 mm socket on a universal extension.



- Install the new knock sensor and tighten it to 34 N-m (3.4 kg-m, 25 lb-ft). Reconnect the electrical connector.
- Reinstall the IAB solenoid and tank back on the bracket.
- Reconnect the battery negative terminal.
- Enter the radio anti-theft code and the customer's station presets. Reset the clock.