CRANK POSITION SENSOR (2TR–FE)

180E7–01

REPLACEMENT

1. REMOVE FAN AND GENERATOR V BELT (SEE PAGE 14–9)

2. REMOVE COMPRESSOR AND MAGNETIC CLUTCH

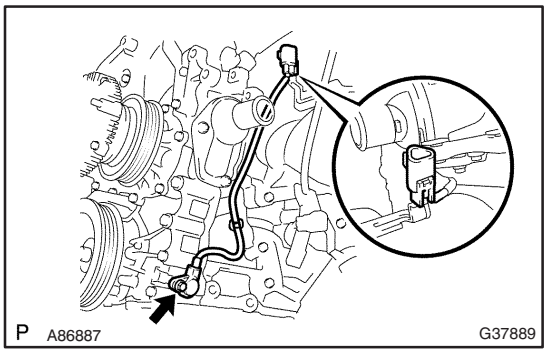
(a) Remove the 4 bolts and compressor.

HINT:

Remove the cooler compressor with the low–pressure hose and high–pressure hose connected. Hang it with a rope.

3. REMOVE COMPRESSOR MOUNTING BRACKET NO.1

(a) Remove the 5 bolts and compressor mounting bracket No.1.



4. REMOVE CRANK POSITION SENSOR

(a) Disconnect the crank shaft position sensor connector.

(b) Disconnect the crank shaft position sensor connector from the clamp bracket.

(c) Remove the harness clamp from the screw hole of the cylinder block.

(d) Remove the bolt and crank shaft position sensor.

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5. INSTALL CRANK POSITION SENSOR

(a) Apply clean engine oil to the O–ring.

(b) Install the bolt and crank shaft position sensor.

Torque: 8.5 N·m (87 kgf·cm, 75 in.·lbf)

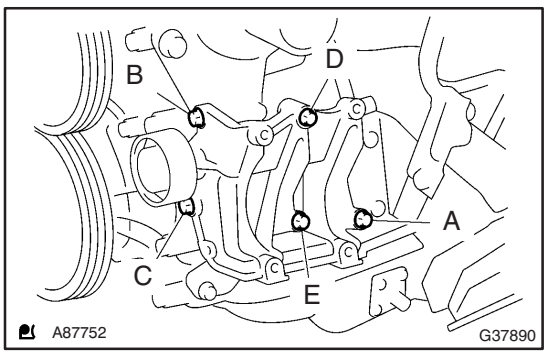
NOTICE:

Take care when installing the O–ring so that it should not break or get caught between parts.

(c) Install the harness clamp to the screw hole of the cylinder block.

(d) Connect the crank shaft position sensor connector to the clamp bracket.

(e) Connect the crank shaft position sensor connector.



6. INSTALL COMPRESSOR MOUNTING BRACKET NO.1

(a) Temporarily install the compressor mounting bracket No.1 with bolt A.

(b) Install the compressor mounting bracket No.1 by fully tightening the bolts shown in the illustration in the following order: B, C, D, E, A.

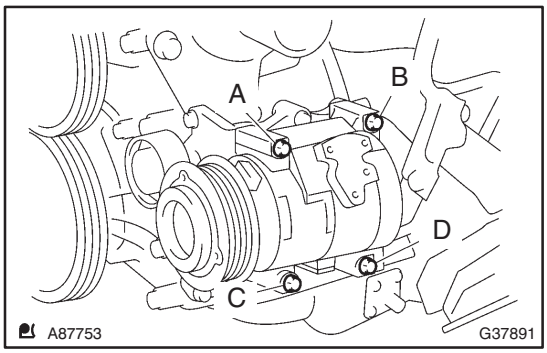
Torque:

25 N·m (255 kgf·cm, 18 ft·lbf) for bolt C

45 N·m (458 kgf·cm, 33 ft·lbf) for except bolt C

NOTICE:

Tighten the bolts in the order specified. Belt noise may occur due to misalignment or if the bolts are not tightened in this order.



7. INSTALL COMPRESSOR AND MAGNETIC CLUTCH

(a) Temporarily install the cooler compressor with bolt A.

(b) Install the cooler compressor by fully tightening the bolts shown in the illustration in the following order: D, B, C, A.

Torque: 25 N·m (255 kgf·cm, 18 ft·lbf)

NOTICE:

Tighten the bolts in the order specified. Belt noise may occur due to misalignment or if the bolts are not tightened in this order.

8. INSTALL FAN AND GENERATOR V BELT (SEE PAGE 14–9)

9. INSPECT DRIVE BELT (SEE PAGE 14–1)