Last Modified: 7-21-2016	6.6 A	**Doc ID:** RM000001RXH001X
Model Year Start: 2007	**Model:** Prius	**Prod Date Range:** [08/2006 -]
Title: AIR CONDITIONING: ELECTRIC INVERTER COMPRESSOR: INSTALLATION; 2007 MY Prius [08/2006 -]		

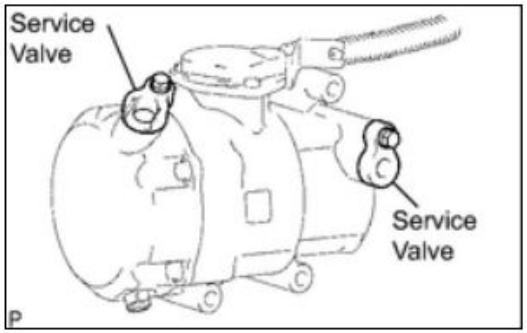
INSTALLATION

1. INSPECT COMPRESSOR OIL

(a) Gradually discharge inert gas (helium) from the service valve when replacing the electric inverter compressor with a new one. Drain the following amount of oil from the new electric inverter compressor before installation.

Standard amount:

(Oil capacity inside new electric inverter compressor 100 + 15 cc (3.52 + 0.53 fl.oz.)) - (Remaining oil amount in the removed compressor assembly with the motor (with motor compressor assembly)) = (Oil amount to be removed before installation)

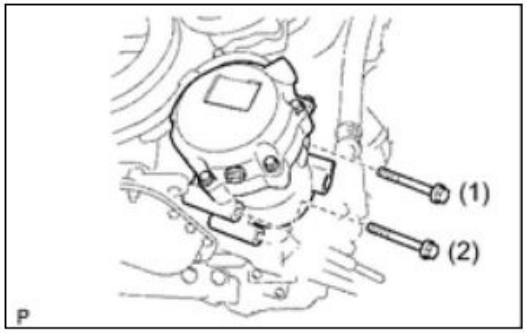


NOTICE:

- Observe the precautions on the cooler removal/installation procedures when checking the amount of compressor oil.
- Because compressor oil remains in the pipes of the vehicle, if a new compressor is installed without removing the oil inside, the amount of oil becomes too great, preventing heat exchange in the refrigerant cycles and causing refrigerant failure and/or abnormal vibration.
- Check for oil leakage if the remaining oil amount in the removed compressor is too low.
- If any compressor oil other than ND-OIL 11 is used, compressor motor insulation performance may decrease, resulting in a leakage of electric power.

2. INSTALL ELECTRIC INVERTER COMPRESSOR ASSEMBLY

(a) Temporarily install the compressor with the 2 bolts.



NOTICE:

Install the bolts in the order indicated in the illustration.

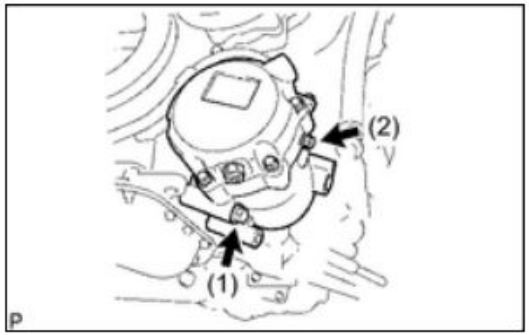
(b) Fully install the compressor with the 2 bolts.

Torque:

25 N·m {255 kgf·cm, 18ft·lbf}

NOTICE:

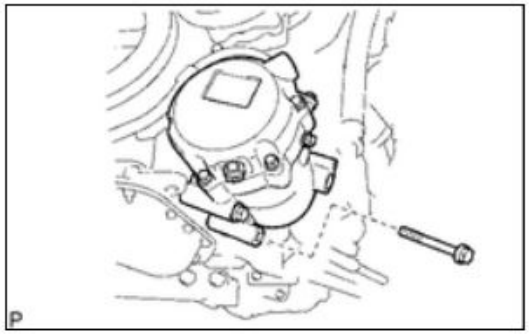
Tighten them in the order indicated in the illustration.



(c) Install the remaining bolt.

Torque:

25 N·m {255 kgf·cm, 18ft·lbf}



(d) Connect the wire harness.

NOTICE:

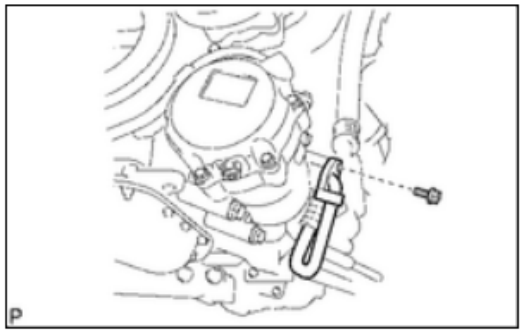
Wear insulated gloves when performing the procedures.

(1) Connect the 3 wire harness clamps.

(2) Connect the connector. (1)

(3) Lock the green-colored lock. (2)

3. INSTALL SUCTION HOSE SUB-ASSEMBLY



(a) Sufficiently apply compressor oil to a new O-ring and the fitting surface of the electric inverter compressor assembly.

Compressor oil:
ND-OIL 11 or equivalent

NOTICE:

- Do not use any compressor oil other than ND-OIL 11.
- If any compressor oil other than ND-OIL 11 is used, compressor motor insulation performance may decrease, resulting in a leakage of electric power.

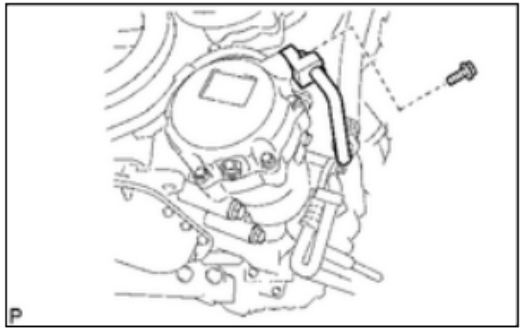
(b) Install the O-ring to the suction hose.

(c) Install the suction hose with the bolt.

Torque:

9.8 N·m {100 kgf·cm, 87in·lbf}

4. INSTALL DISCHARGE HOSE SUB-ASSEMBLY



(a) Sufficiently apply compressor oil to a new O-ring and the fitting surface of the electric inverter compressor.

Compressor oil:
ND-OIL 11 or equivalent

NOTICE:

- Do not use any compressor oil other than ND-OIL 11.
- If any compressor oil other than ND-OIL 11 is used, compressor motor insulation performance may decrease, resulting in a leakage of electric power.

(b) Install the O-ring to the discharge hose.

(c) Install the discharge hose with the bolt.

Torque:

9.8 N·m {100 kgf·cm, 87in·lbf}

5. INSTALL SERVICE PLUG GRIP

6. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

7. PERFORM INITIALIZATION

(a) Perform initialization INFO .

NOTICE:

Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.

8. INSTALL REAR NO. 3 FLOOR BOARD

9. INSTALL DECK FLOOR BOX REAR

10. INSTALL REAR NO.2 FLOOR BOARD

11. CHARGE REFRIGERANT INFO

12. WARM UP COMPRESSOR INFO

13. INSPECT FOR REFRIGERANT LEAK INFO