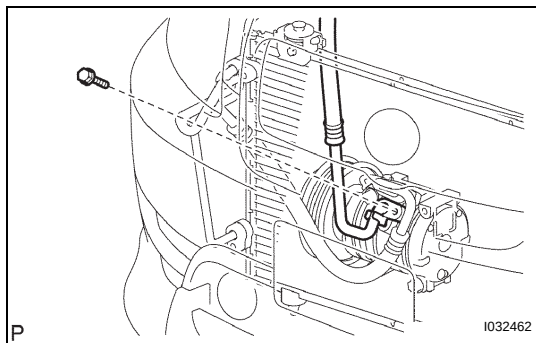


REMOVAL

1. **DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM** (See page [AC-10](#))
2. **DISCONNECT SUCTION HOSE SUB-ASSEMBLY**
 - (a) Remove the bolt and disconnect the cooler refrigerant suction hose No. 1 from the compressor and magnetic clutch.
 - (b) Remove the O-ring from the cooler refrigerant suction hose No. 1.

NOTICE:

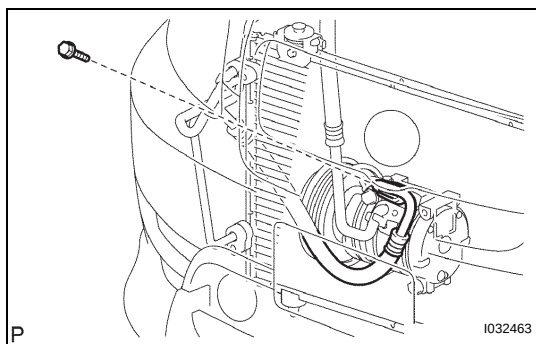
Seal the opening of the disconnected parts using vinyl tape to prevent moisture and foreign matter from entering.



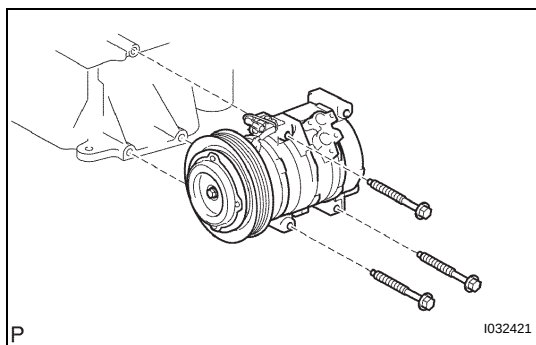
3. **DISCONNECT DISCHARGE HOSE SUB-ASSEMBLY**
 - (a) Remove the bolt and disconnect the discharge hose sub-assembly from the compressor and magnetic clutch.
 - (b) Remove the O-ring from the discharge hose sub-assembly.

NOTICE:

Seal the opening of the disconnected parts using vinyl tape to prevent moisture and foreign matter from entering.



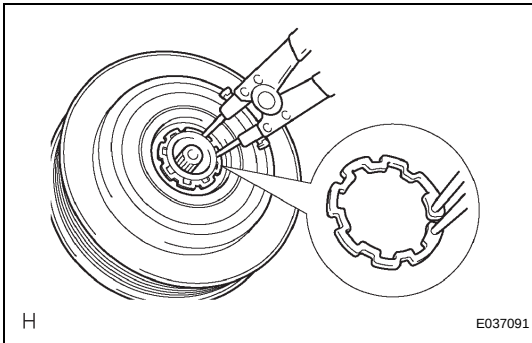
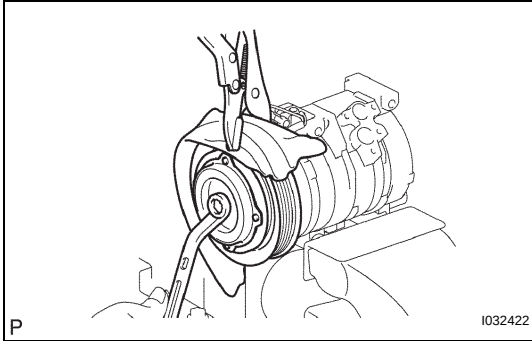
4. **REMOVE ENGINE UNDER COVER RH**
5. **REMOVE FAN AND GENERATOR V BELT** (See page [CH-6](#))
6. **REMOVE COMPRESSOR AND MAGNETIC CLUTCH**
 - (a) Disconnect the connector.
 - (b) Remove the 3 bolts and compressor and magnetic clutch.



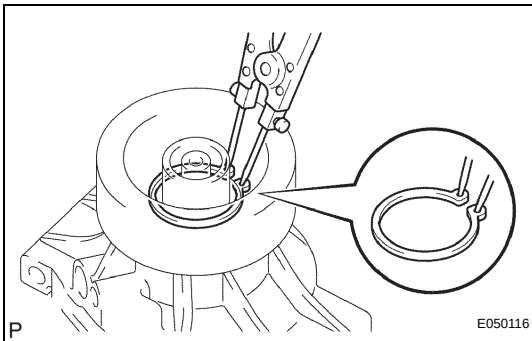
DISASSEMBLY

1. REMOVE MAGNETIC CLUTCH ASSEMBLY

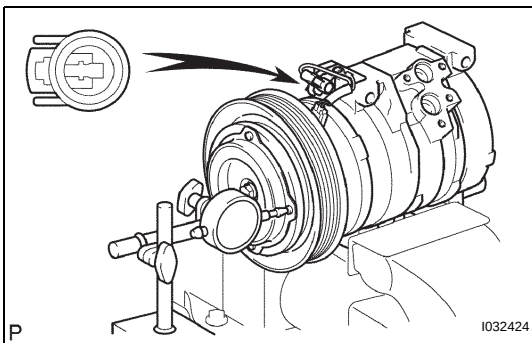
- (a) Place the compressor and magnetic clutch in vise.
- (b) Using vise pliers, hold the magnetic clutch hub.
- (c) Remove the bolt, magnetic clutch hub and magnetic clutch washer.



- (d) Using a snap ring expander, remove the snap ring and magnetic clutch rotor.
- (e) Remove the screw and disconnect the connector.



- (f) Using a snap ring expander, remove the snap ring and magnetic clutch stator.



INSPECTION

1. INSPECT MAGNETIC CLUTCH CLEARANCE

- (a) Set the dial indicator to the magnetic clutch hub.
- (b) Connect the battery positive lead to the terminal 1 of the magnetic clutch connector and the negative lead to the earth wire. Turn on and off the magnetic clutch and measure the clearance.

Standard clearance:

0.35 - 0.60 mm (0.013 - 0.023 in.)

If the measured value is out of the standard range, remove the magnetic clutch hub and adjust it with magnetic clutch washers.

NOTICE:

Adjustment shall be performed with 3 or less magnetic clutch washers.

2. INSPECT COMPRESSOR OIL

- (a) When replacing the compressor and magnetic clutch with a new one, after gradually removing the refrigerant gas from the service valve, drain the following amount of oil from the new compressor and magnetic clutch before installation.

Standard amount:

(Oil capacity inside new compressor and magnetic clutch: 120 + 15 cc (4.0 + 0.5 fl. oz.)) -
(Remaining oil amount in the removed compressor and magnetic clutch) = (Oil amount to be removed when replacing)

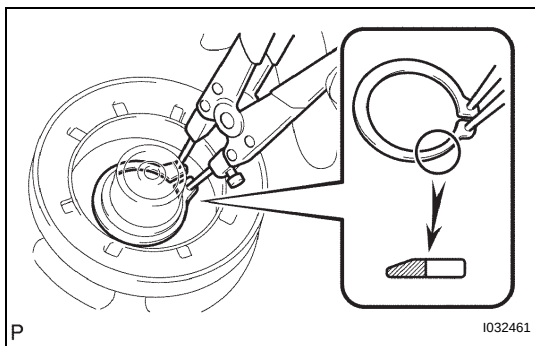
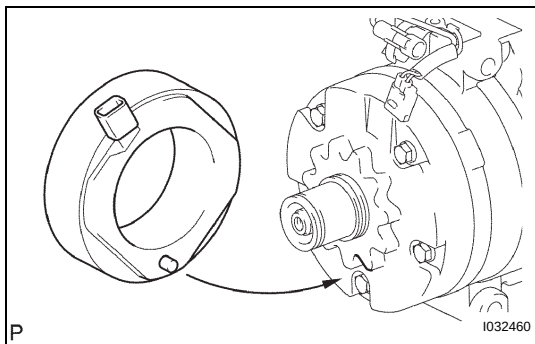
NOTICE:

- When checking the compressor oil level, observe the precautions on the cooler removal/installation.
- Because compressor oil remains in the pipes of the vehicle, if a new compressor and magnetic clutch is installed without removing some oil inside, the oil amount becomes too much, preventing heat exchange in the refrigerant cycle and causing refrigerant failure.
- If the remaining oil in the removed compressor and magnetic clutch is too small in volume, check for oil leakage.
- Be sure to use ND-OIL8 for compressor oil.

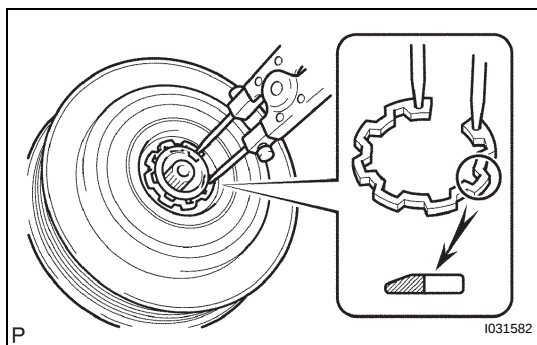
REASSEMBLY

1. INSTALL MAGNETIC CLUTCH ASSEMBLY

- (a) Matching the parts shown in the illustration, install the magnetic clutch stator.



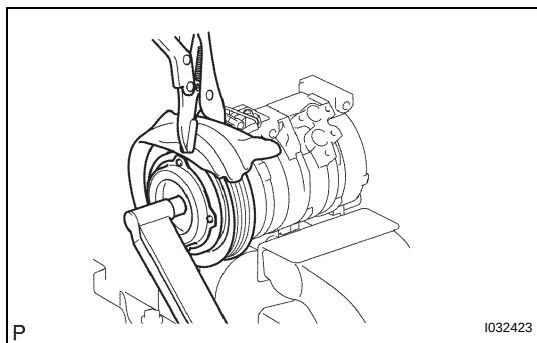
- (b) Using a snap ring expander, install a new snap ring with the chamfered side facing up.
- (c) Install the screw and connect the connector.



- (d) Using a snap ring expander, install the magnetic clutch rotor and a new snap ring with the chamfered side facing up.
- (e) Install the magnetic clutch washer and magnetic clutch hub.

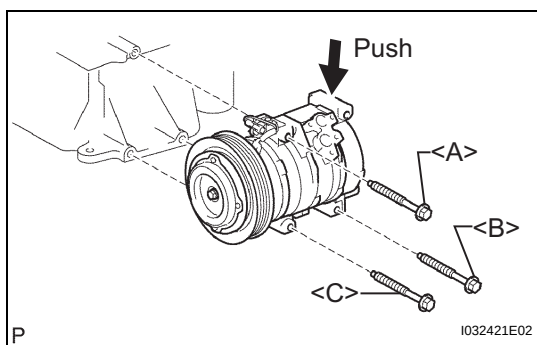
NOTICE:

Do not change the combination of the magnetic clutch washers used before disassembly.



- (f) Using vise pliers, hold the magnetic clutch hub and install the bolt.

Torque: 18 N*m (183 kgf*cm, 13 ft.*lbf)



INSTALLATION

1. INSTALL COMPRESSOR AND MAGNETIC CLUTCH

- (a) Install the compressor and magnetic clutch with the 3 bolts.

- (b) Temporarily tighten bolt A.

HINT:

Do not over tighten the bolt until the compressor no longer moves.

- (c) Push down on the rear side of the compressor and fully tighten bolt B, bolt C and bolt A in order.

Torque: 24.5 N*m (250 kgf*cm, 18 ft.*lbf)

- (d) Connect the connector.

2. INSTALL DISCHARGE HOSE SUB-ASSEMBLY

- (a) Remove the attached vinyl tape from the hose.

- (b) Sufficiently apply compressor oil to the new O-ring and fit surface of the compressor and magnetic clutch.

Compressor oil:

ND-OIL8 or equivalent

- (c) Install an O-ring to the discharge hose sub-assembly.

- (d) Install the discharge hose sub-assembly to the compressor and magnetic clutch with the bolt.

Torque: 9.8 N*m (100 kgf*cm, 87 in.*lbf)

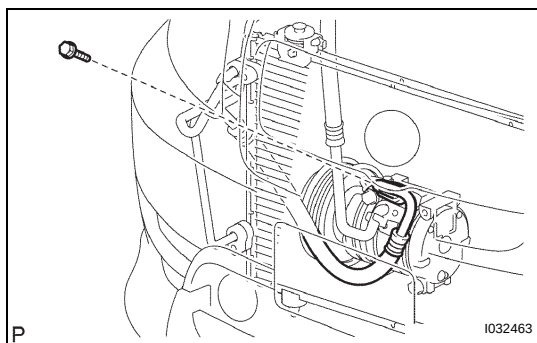
3. INSTALL SUCTION HOSE SUB-ASSEMBLY

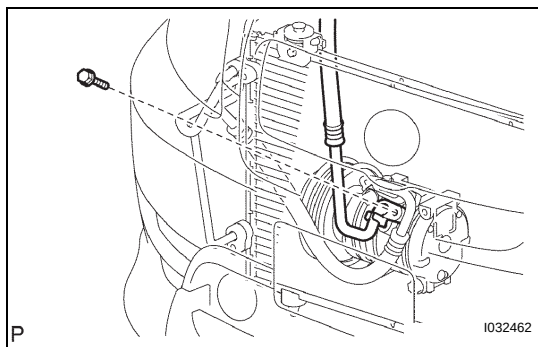
- (a) Remove the attached vinyl tape from the hose.

- (b) Sufficiently apply compressor oil to the new O-ring and fit surface of the compressor and magnetic clutch.

Compressor oil:

ND-OIL8 or equivalent





- (c) Install an O-ring to the cooler refrigerant suction hose No. 1.
- (d) Install the cooler refrigerant suction hose No. 1 to the compressor and magnetic clutch with the bolt.
Torque: 9.8 N*m (100 kgf*cm, 87 in.*lbf)

- 4. **CHARGE REFRIGERANT** (See page [AC-11](#))
- 5. **WARM UP ENGINE**
- 6. **INSPECT LEAKAGE OF REFRIGERANT** (See page [AC-11](#))