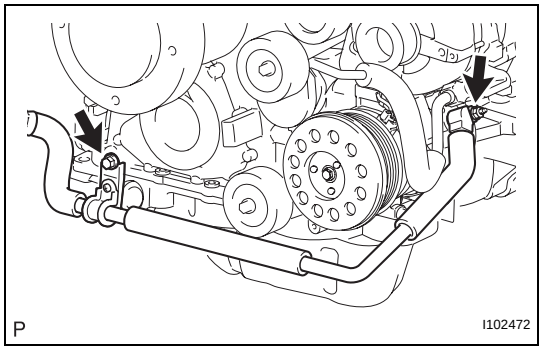
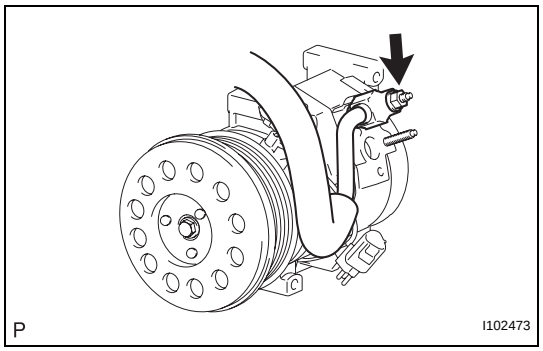
REMOVAL

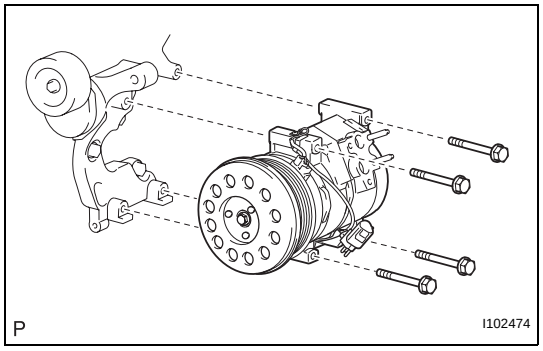
1. **DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM (See page AC-16)**
2. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
3. **REMOVE BATTERY HOLD DOWN CLAMP**
4. **REMOVE BATTERY**
5. **REMOVE BATTERY TRAY**
6. **REMOVE NO. 1 ENGINE UNDER COVER SUB-ASSEMBLY (See page EM-6)**
7. **REMOVE FAN AND GENERATOR V BELT (See page EM-6)**



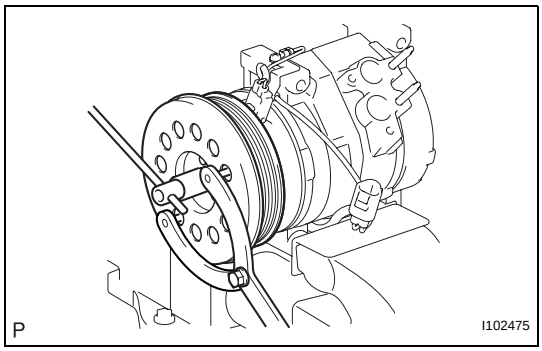
8. **DISCONNECT SUCTION HOSE SUB-ASSEMBLY**
   (a) Remove the bolt and separate the suction hose.
   (b) Remove the nut and disconnect the suction hose.
   (c) Remove the O-ring from the suction hose.
   NOTICE:
   Seal the openings of the disconnected parts using vinyl tape to prevent moisture and foreign matter from entering.



9. **DISCONNECT DISCHARGE HOSE SUB-ASSEMBLY**
   (a) Remove the nut and disconnect the discharge hose.
   (b) Remove the O-ring from the discharge hose.
   NOTICE:
   Seal the openings of the disconnected parts using vinyl tape to prevent moisture and foreign matter from entering.



10. **REMOVE COOLER COMPRESSOR ASSEMBLY**
    (a) Disconnect the connector.
    (b) Remove the 4 bolts and compressor.



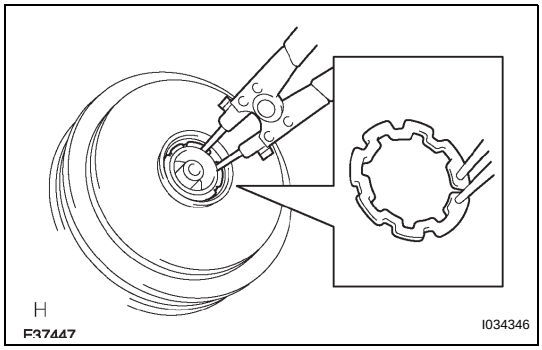
DISASSEMBLY

1. REMOVE MAGNET CLUTCH ASSEMBLY

(a) Clamp the cooler compressor in a vise.

(b) Using SST, hold the magnet clutch hub.
SST 09960-10010 (09962-01000, 09963-00500)

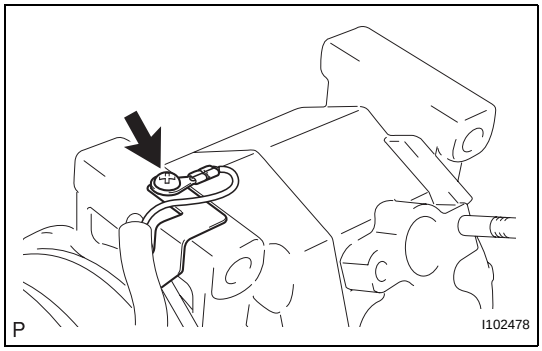
(c) Remove the bolt, magnet clutch hub and magnet clutch washer.
HINT:
There is no set number of magnet clutch washers since they are used for adjusting.



(d) Using a snap ring expander, remove the snap ring and the magnet clutch rotor.
NOTICE:
Do not damage the seal cover of the bearing when removing the snap ring.

(e) Disconnect the connector.

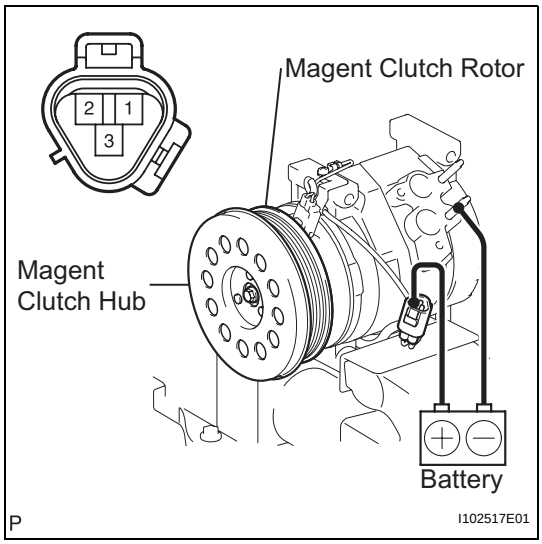
(f) Using a snap ring expander, remove the snap ring and magnet clutch stator.



2. REMOVE COOLER BRACKET

(a) Remove the screw and the cooler bracket.

INSPECTION



1. INSPECT MAGNET CLUTCH ASSEMBLY

(a) Check the magnet clutch operation.

(1) Confirm that the magnet clutch hub and magnet clutch rotor lock when the battery positive lead is connected to terminal 3 (MG+) of the magnet clutch, and the negative lead is connected to the earth wire.
If the operation is not as specified, replace the magnet clutch assembly.

(b) Measure the resistance.

(c) Measure the resistance between terminals 1 and 2.
Standard resistance:
165 to 205 Ω at 25°C (77°F)
If the resistance is not as specified, replace the cooler compressor assembly.