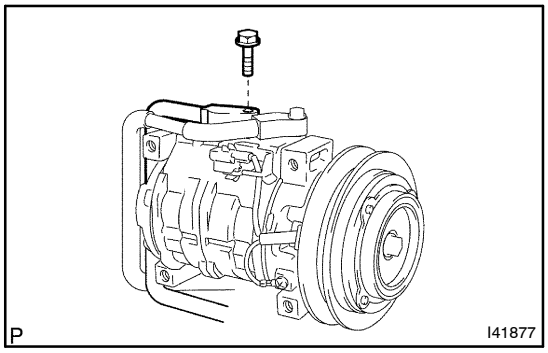
551EI–03

REPLACEMENT

1. DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM (See Pub. No. RM1008E on page 55–14)

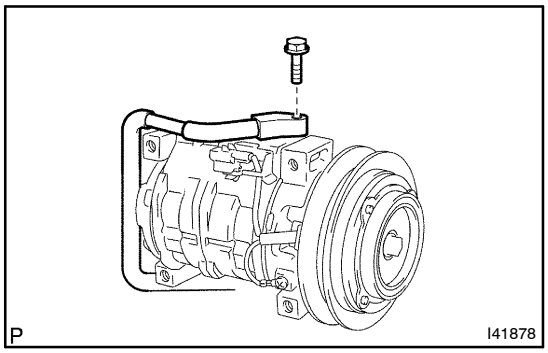
2. REMOVE V COOLER BELT (See page 55–2)



3. REMOVE COOLER REFRIGERANT DISCHARGE HOSE NO.2

(a) Remove the bolt and disconnect the hose.
(b) Remove the O–ring from the hose.

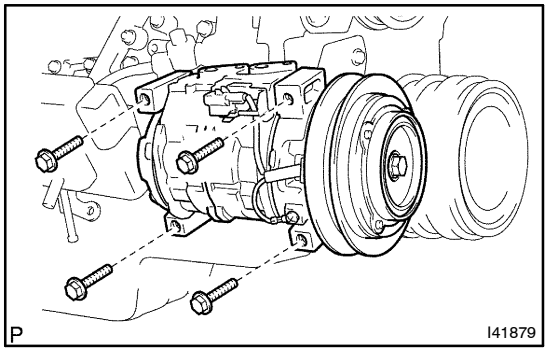
NOTICE:
Tape the disconnected parts of hoses and compressor, to protect it from dust and water.



4. REMOVE SUCTION HOSE SUB–ASSY

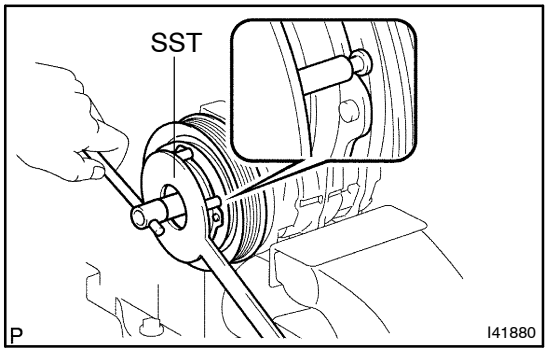
(a) Remove the bolt and disconnect the hose.
(b) Remove the O–ring from the hose.

NOTICE:
Tape the disconnected parts of hoses and compressor, to protect it from dust and water.



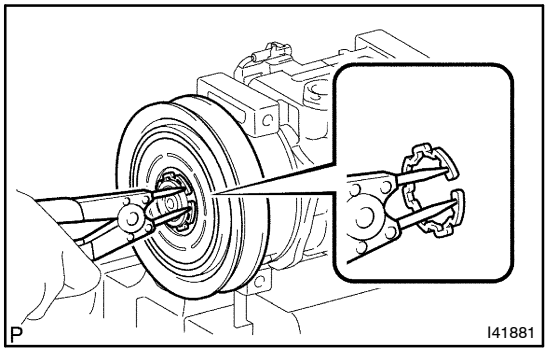
5. REMOVE COOLER COMPRESSOR ASSY

(a) Disconnect the connector.
(b) Remove the 4 bolts and compressor.

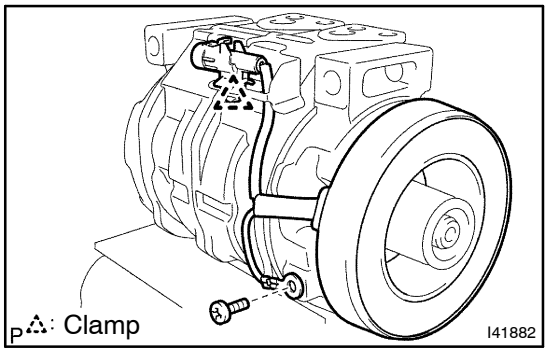


6. REMOVE MAGNET CLUTCH ASSY

(a) Using SST, remove the bolt, magnet clutch washer and magnet clutch hub.
SST 95047–10400 (DENSO Part No.)



(b) Using snap ring pliers, remove the snap ring and magnet clutch rotor.

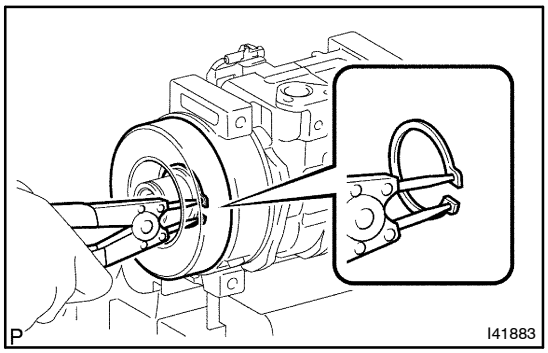


(c) Using a screwdriver, disengage the clamp.

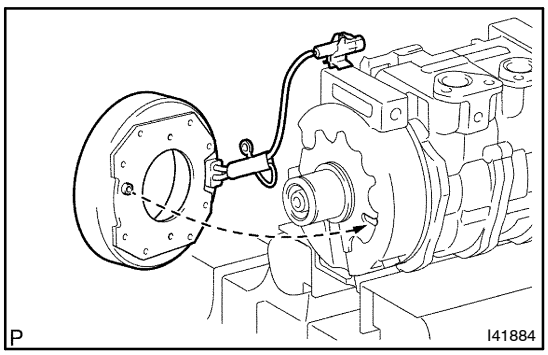
HINT:

Tape the screwdriver tip before use.

(d) Remove the screw and earth wire.

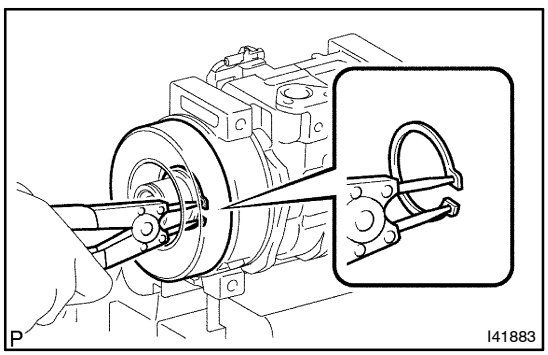


(e) Using snap ring pliers, remove the snap ring and magnet clutch.

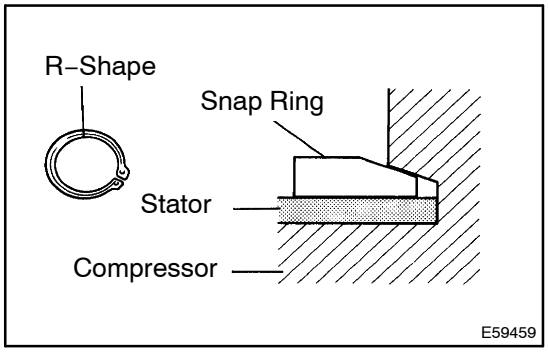


7. INSTALL MAGNET CLUTCH ASSY

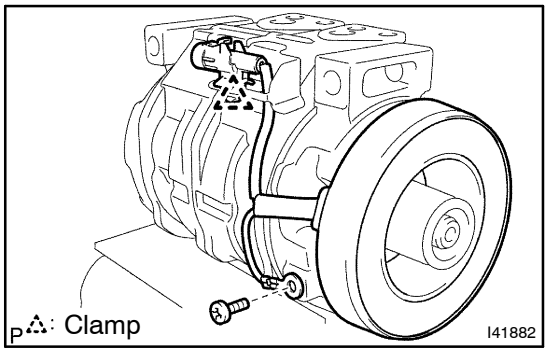
(a) Install the magnet clutch to the cooler compressor, as shown in the illustration.



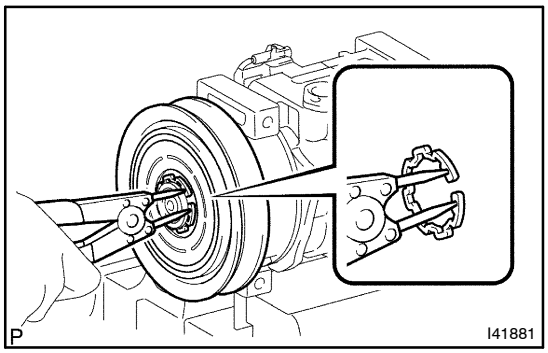
(b) Using snap ring pliers, install the magnet clutch with a new snap ring.



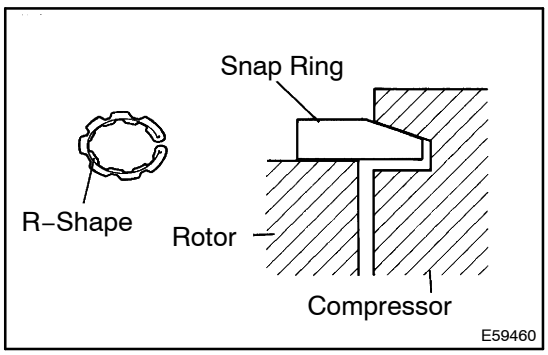
NOTICE:
The snap ring should be installed so that its beveled side faces up.



(c) Install the earth wire with the screw.
(d) Connect the clamp.

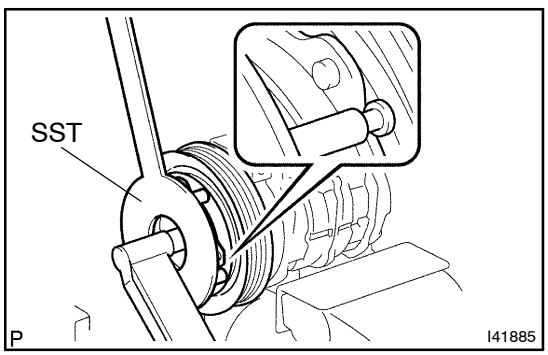


(e) Using snap ring pliers, install the magnet clutch rotor with a new snap ring.

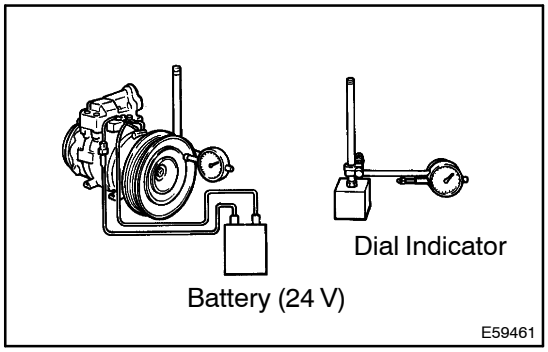


NOTICE:
- **The snap ring should be installed so that its beveled side faces up.**
- **When installing the snap ring, do not expand its bore over 30.5 mm.**

(f) Install the magnet clutch washer and magnet clutch hub.



(g) Using SST, install the bolt.
SST 95047–10400 (DENSO Part No.)
Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)



8. INSPECT MAGNETIC CLUTCH CLEARANCE

(a) Set the dial indicator to the pressure plate of the magnetic clutch.

(b) Connect the magnetic clutch lead wire to the battery's positive terminal.

(c) Check the clearance between the pressure plate and rotor when connecting the battery's negative terminal to the lead wire.

Standard clearance:
0.5 ± 0.15 mm (0.020 ± 0.006 in.)

If the clearance is not within the standard, adjust it using shims to obtain the standard clearance.

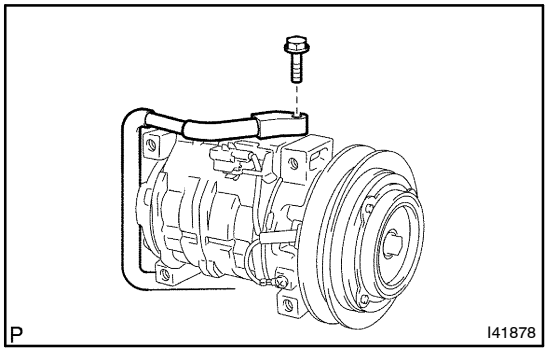
Shim thickness:
0.1 mm (0.004 in.)
0.3 mm (0.012 in.)
0.5 mm (0.020 in.)

9. INSTALL COOLER COMPRESSOR ASSY

(a) Replacing a new compressor:
Drain compressor oil from a new compressor.
Draining compressor oil:
(Oil value of new compressor) – (Oil value of replaced compressor)

(b) Install the compressor with the 4 bolts.
Torque: 25 N·m (255 kgf·cm, 18 ft·lbf)

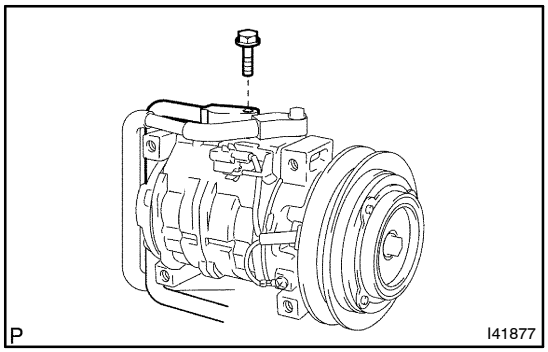
(c) Connect the connector.



10. INSTALL SUCTION HOSE SUB–ASSY

(a) Coat a new O–ring with compressor oil and install the suction hose.
Compressor oil: ND–OIL 8 or equivalent

(b) Connect the suction hose with the bolt.
Torque: 5.4 N·m (55 kgf·cm, 48 in.·lbf)



11. INSTALL COOLER REFRIGERANT DISCHARGE HOSE NO.2

(a) Coat a new O–ring with compressor oil and install the discharge hose.
Compressor oil: ND–OIL 8 or equivalent

(b) Connect the liquid hose with the bolt.
Torque: 5.4 N·m (55 kgf·cm, 48 in.·lbf)

12. INSTALL V BELT (See page 55–2)

13. ADJUST V BELT (See page 55–2)

14. CHARGE REFRIGERANT (See Pub. No. RM1008E on page 55–14)

15. INSPECT LEAKAGE OF REFRIGERANT