

REPLACEMENT

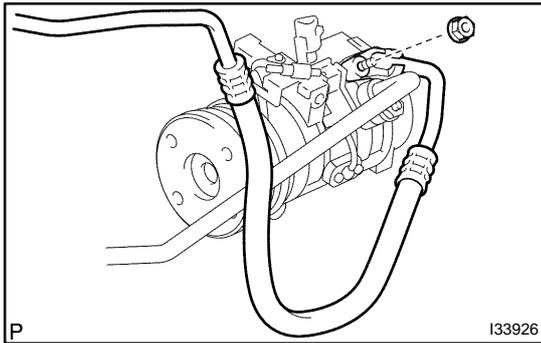
HINT:

COMPONENTS: See page 55-31

1. DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM (See page 55-8)

SST 07110-58060 (07117-58080, 07117-58090, 07117-78050, 07117-88060, 07117-88070, 07117-88080)

2. REMOVE FAN AND GENERATOR V BELT (See page 14-5)

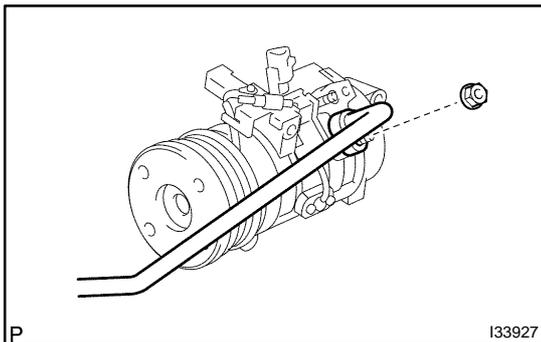


3. DISCONNECT DISCHARGE HOSE SUB-ASSY

- (a) Remove the nut and disconnect the discharge hose sub-assy from the compressor and magnetic clutch.
- (b) Remove the O-ring from the discharge hose sub-assy.

NOTICE:

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

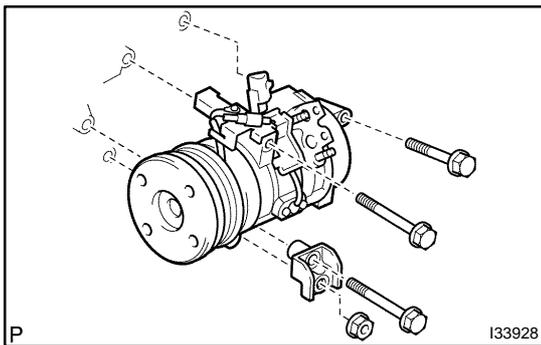


4. DISCONNECT SUCTION HOSE SUB-ASSY

- (a) Remove the nut and disconnect the cooler refrigerant suction hose sub-assy from the compressor and magnetic clutch.
- (b) Remove the O-ring from the cooler refrigerant suction hose sub-assy.

NOTICE:

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

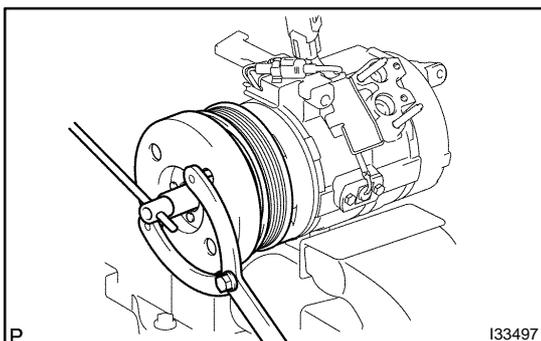


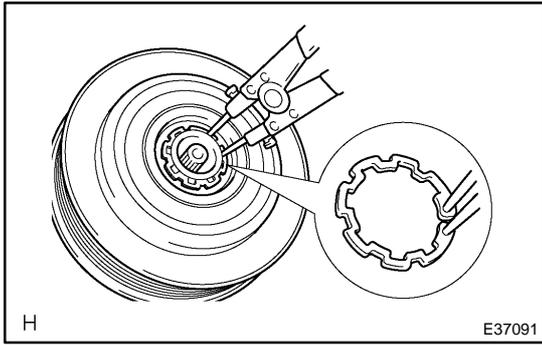
5. REMOVE COMPRESSOR AND MAGNETIC CLUTCH

- (a) Disconnect the connector.
- (b) Remove the nut.
- (c) Remove the 3 bolts, stay, compressor and compressor and magnetic clutch.

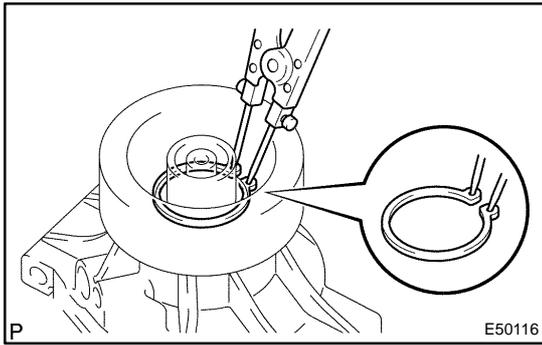
6. REMOVE MAGNET CLUTCH ASSY

- (a) Place the compressor and magnetic clutch in a vise.
- (b) Using SST, remove the bolt, magnet clutch hub and magnet clutch washer.
SST 09960-10010 (09962-01000, 09963-00500)





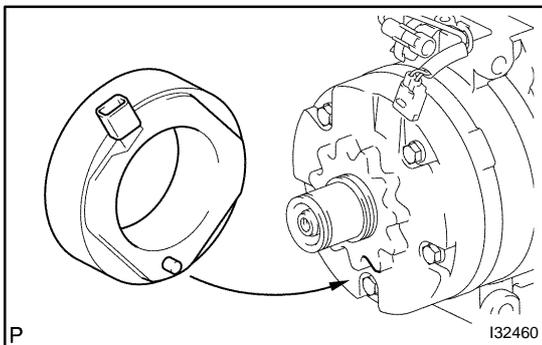
- (c) Using a snap ring expander, remove the snap ring and magnet clutch rotor.
- (d) Remove the screw and disconnect the connector.



- (e) Using a snap ring expander, remove the snap ring and magnet clutch starter.

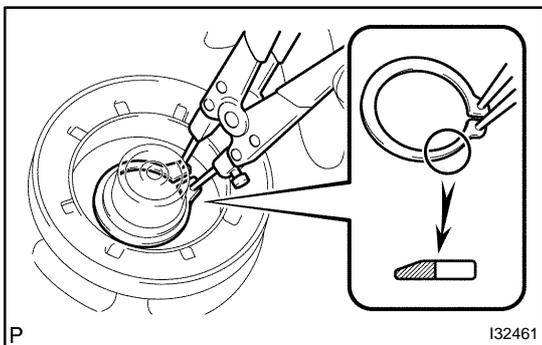
7. REMOVE COOLER COMPRESSOR BRACKET

8. REMOVE COOLER COMPRESSOR ASSY

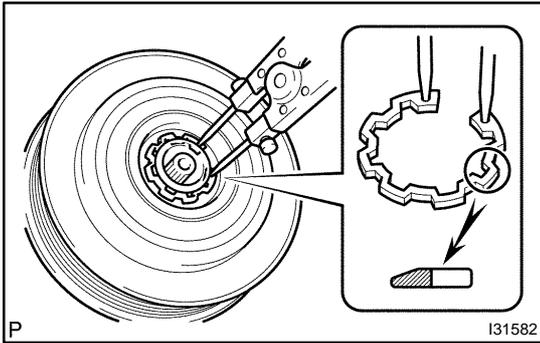


9. INSTALL MAGNET CLUTCH ASSY

- (a) Fit the parts shown in the illustration and install the magnet clutch starter.



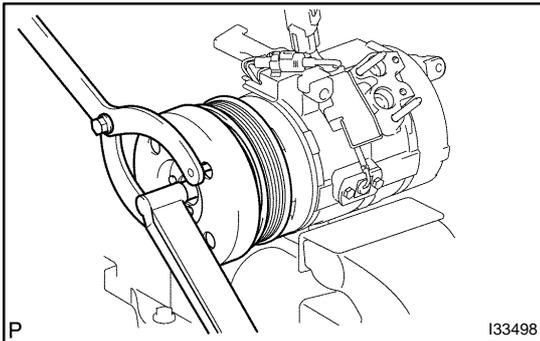
- (b) Using a snap ring expander, install a new snap ring with the chamfered side facing up.
- (c) Install the screw and connect the connector.



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

NOTICE:

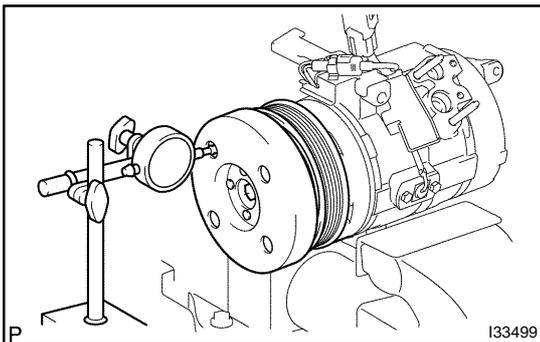
Do not change the combination of the magnet clutch washers used before disassembly.



- (f) Using SST, install the magnet clutch hub and magnet clutch washer with the bolt.

SST 09960-10010 (09962-01000, 09963-00500)

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

**10. INSPECT MAGNETIC CLUTCH CLEARANCE**

- (a) Set the dial indicator to the magnet clutch hub.
- (b) Connect the battery positive lead to the terminal 1 of magnet clutch connector and the negative lead to the earth wire. Turn on and off the magnet 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 magnet clutch hub and adjust it with magnet clutch washers.

NOTICE:

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

11. 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.

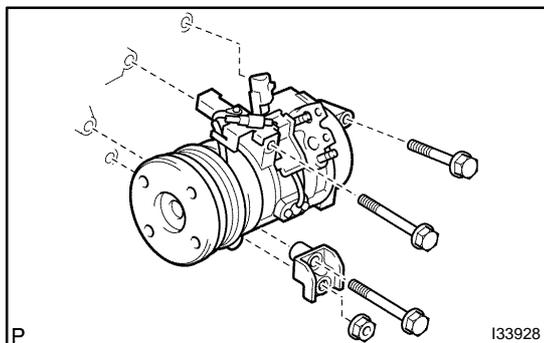
Standard:

(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 excessive, 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.



12. INSTALL COMPRESSOR AND MAGNETIC CLUTCH

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

Torque: 46 N·m (469 kgf·cm, 34 ft·lbf)

- (b) Install the nut.

Torque: 24 N·m (245 kgf·cm, 18 ft·lbf)

- (c) Connect the connector.

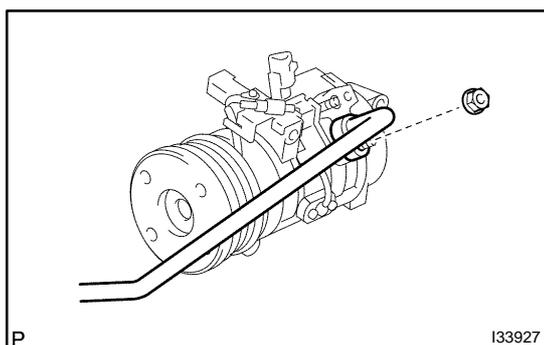
13. INSTALL SUCTION HOSE SUB-ASSY

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

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

Compressor oil: ND-OIL8 or equivalent

- (c) Install a O-ring on the suction hose sub-assy.



- (d) Install the suction hose sub-assy on the compressor and magnetic clutch with the nut.

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

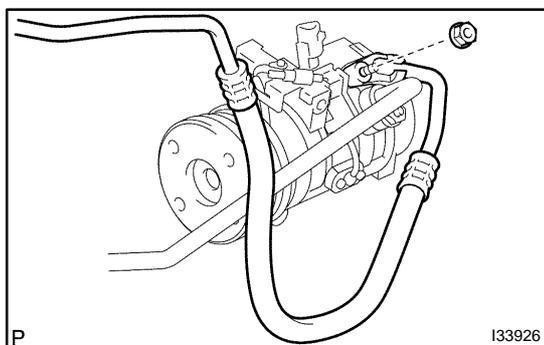
14. INSTALL DISCHARGE HOSE SUB-ASSY

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

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

Compressor oil: ND-OIL8 or equivalent

- (c) Install a O-ring on the discharge hose sub-assy.



- (d) Install the discharge hose sub-assy on the compressor and magnetic clutch with the nut.

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

15. INSPECT V-RIBBED BELT TENSIONER ASSY (See page 14-5)

16. INSTALL FAN AND GENERATOR V BELT (See page 14-5)

17. CHARGE REFRIGERANT (See page 55-8)

SST 07110-58060 (07117-58060, 07117-58070, 07117-58080, 07117-58090, 07117-78050,
07117-88060, 07117-88070, 07117-88080)

Specified amount: 650 ± 30 g (22.92 ± 1.06 oz.)

18. WARM UP ENGINE (See page 55-8)**19. INSPECT LEAKAGE OF REFRIGERANT (See page 55-8)**