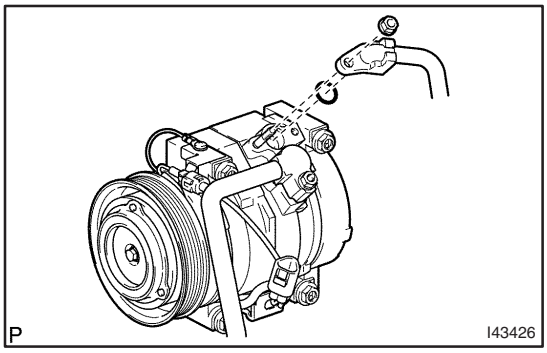
551JD–01

# REPLACEMENT

HINT:

COMPONENTS: See page 55–6

1. **DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM (SEE PAGE 55–1)**
   SST 07110–58060 (07117–58080, 07117–58090, 07117–78050, 07117–88060, 07117–88070, 07117–88080)
2. **REMOVE FRONT DISC WHEEL**
3. **REMOVE ENGINE UNDER COVER SUB–ASSY NO.1**
4. **SEPARATE FRONT STABILIZER LINK ASSY LH (See Pub. No. RM990E, page 26–28)**
5. **SEPARATE FRONT STABILIZER LINK ASSY (See Pub. No. RM990E, page 26–28)**
6. **REMOVE FRONT STABILIZER BRACKET NO.1 LH (See Pub. No. RM990E, page 26–28)**
7. **REMOVE FRONT STABILIZER BRACKET NO.1 RH (See Pub. No. RM990E, page 26–28)**
8. **REMOVE STABILIZER BAR FRONT (See Pub. No. RM990E, page 26–29)**
9. **REMOVE FAN AND GENERATOR V BELT (SEE PAGE 14–9)**



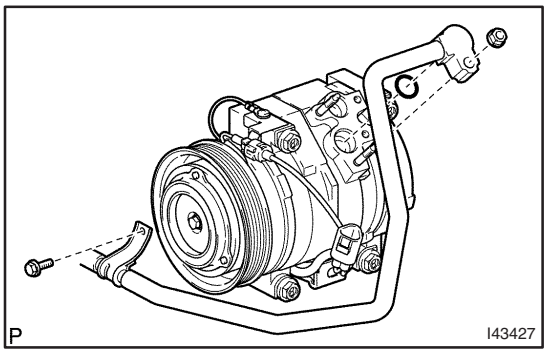

**10. DISCONNECT DISCHARGE HOSE SUB–ASSY**

(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 openings of the disconnected parts using vinyl tape to prevent moisture and foreign matters from entering.**




**11. DISCONNECT SUCTION HOSE SUB–ASSY**

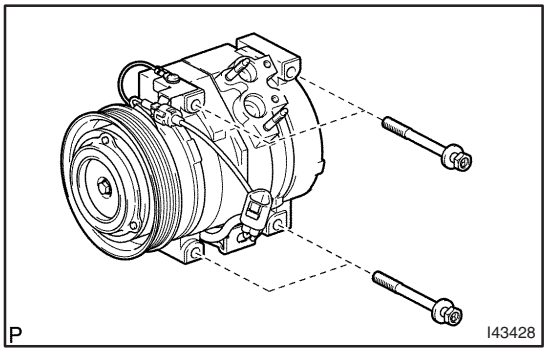
(a) Remove the bolt.

(b) Remove the nut and disconnect the suction hose sub–assy form the compressor and magnetic clutch.

(c) Remove the O–ring from the suction hose sub–assy.

**NOTICE:**

**Seal the openings of the disconnected parts using vinyl tape to prevent moisture and foreign matters from entering.**



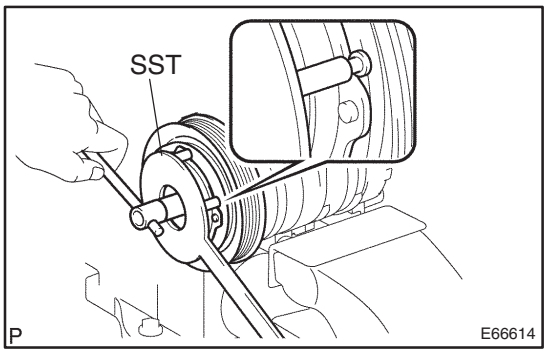

**12. REMOVE COMPRESSOR AND MAGNETIC CLUTCH**

(a) Disconnect the connector.

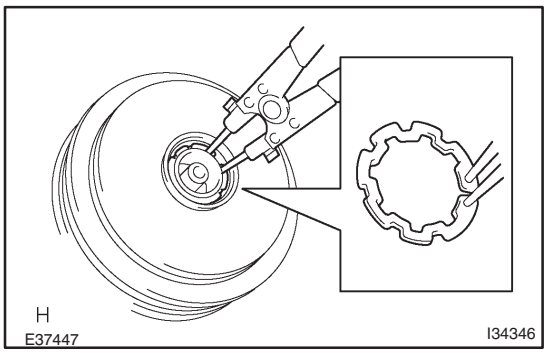
(b) Remove the 4 bolts and the compressor and magnetic clutch.

**13. REMOVE MAGNET CLUTCH ASSY**

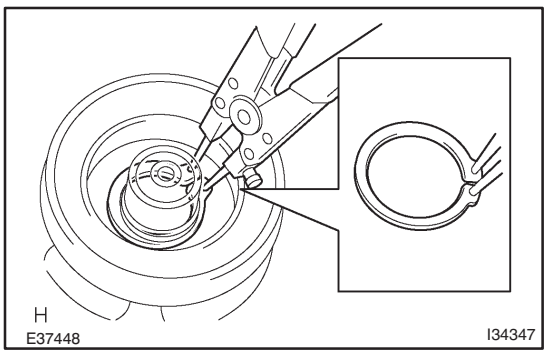
(a) Place the compressor and magnetic clutch in a vise.



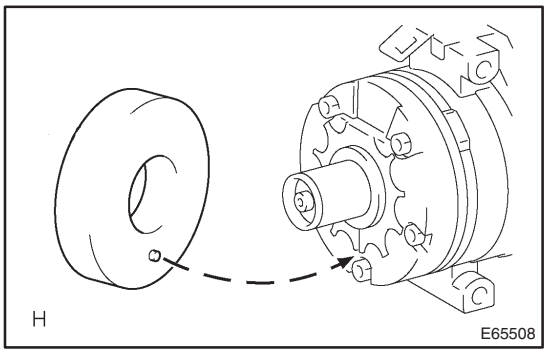

(b) Using SST, remove the bolt, the magnet clutch hub and the magnet clutch washer.
SST 95047–10400




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

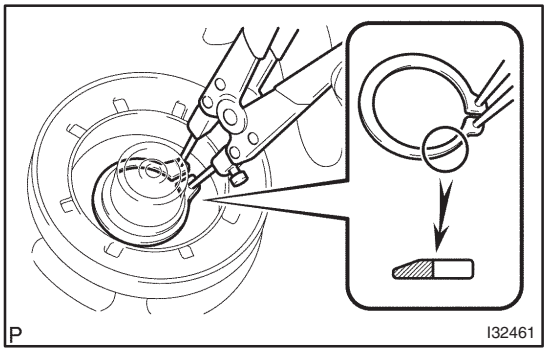



(e) Using a snap ring expander, remove the snap ring and the magnet clutch stator.

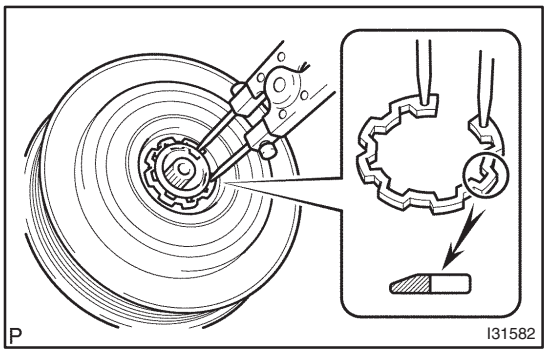



**14. INSTALL MAGNET CLUTCH ASSY**

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

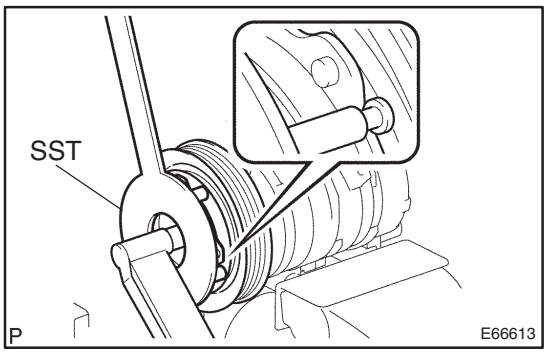



(d) Using a snap ring expander, install the magnet clutch rotor and a new snap ring with the chamfered side facing up.

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

**NOTICE:**

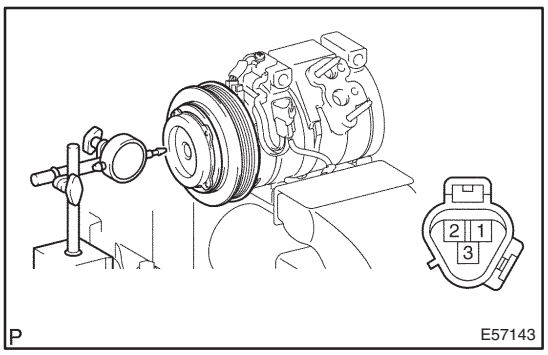
**Do not change the combination of the magnet clutch washers used before disassembly.**




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

SST 95047–10400

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




**15. INSPECT MAGNETIC CLUTCH CLEARANCE**

(a) Set the dial indicator to the magnet clutch hub.

(b) Connect the battery positive lead to terminal 1 of the 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 to 0.60 mm (0.013 to 0.023 in.)**

If the measured value is outside the standard range, remove the magnet clutch hub and adjust it with the magnet clutch washers.

**NOTICE:**

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

**16. ADJUST 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:**

**Single A/C:**

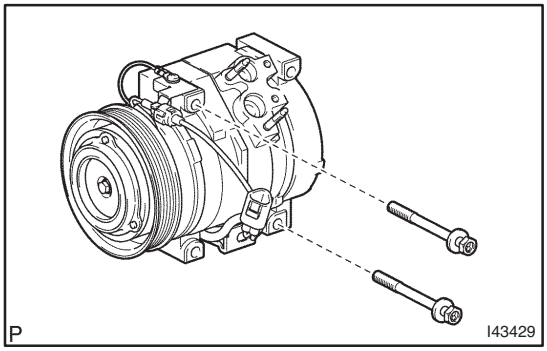
**(Oil capacity inside new compressor and magnetic clutch: 120 + 15 cc (4.0 + 0.5 fl. oz.) ) – (Remaining oil amount in the removed compressor and magnetic clutch) = (Oil amount to be removed when replacing)**

**Dual A/C:**

**(Oil capacity inside new compressor and magnetic clutch: 180 + 15 cc (6.0 + 0.5 fl. oz.) ) – (Remaining oil amount in the removed compressor and magnetic clutch) = (Oil amount to be removed when replacing)**

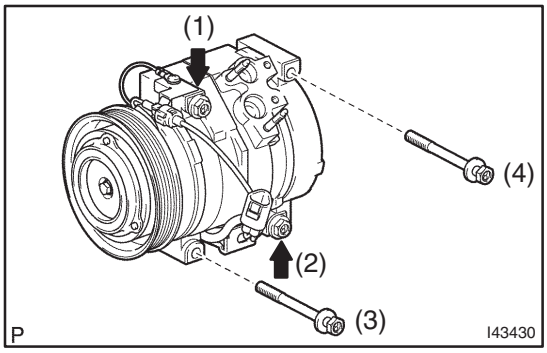
**NOTICE:**

- **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–OIL 8 or equivalent for compressor oil.**




**17. TEMPORARILY TIGHTEN COMPRESSOR AND MAGNETIC CLUTCH**

(a) Temporarily tighten the compressor and magnetic clutch with the 2 bolts.




**18. FULLY TIGHTEN COMPRESSOR AND MAGNETIC CLUTCH**

(a) Fully tighten the compressor and magnetic clutch with the 4 bolts.
**Torque: 25 N·m (250 kgf·cm, 18 ft·lbf)**

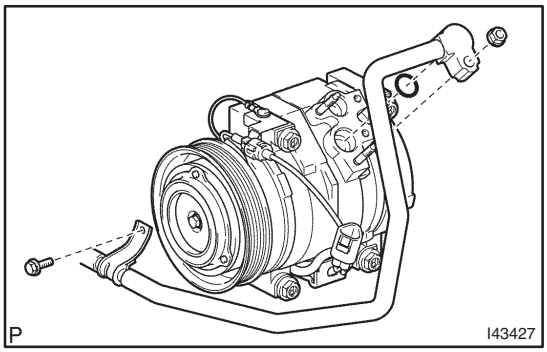
**NOTICE:**

**Tighten in the order indicated in the illustration.**

(b) Connect the connector.

**19. INSTALL SUCTION HOSE SUB–ASSY**

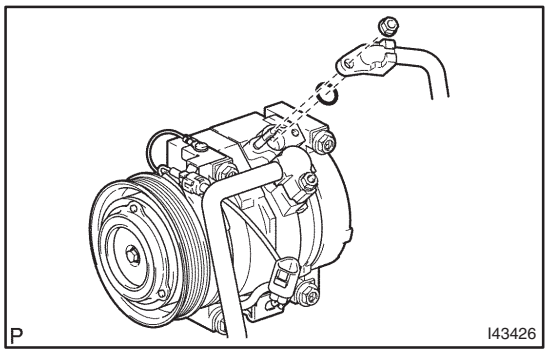
(a) Remove the attached vinyl tape from the hose.
(b) Sufficiently apply compressor oil to a new O–ring and the fitting surface of the compressor and magnetic clutch.
**Compressor oil: ND–OIL 8 or equivalent.**




(c) Install the suction hose sub–assy on the compressor and the magnetic clutch with the nut.
**Torque: 9.8 N·m (100 kgf·cm, 87 in.·lbf)**
(d) Install the bolt.

**20. INSTALL DISCHARGE HOSE SUB–ASSY**

(a) Remove the attached vinyl tape from the hose.
(b) Sufficiently apply compressor oil to a new O–ring and the fitting surface of the compressor and magnetic clutch.
**Compressor oil: ND–OIL 8 or equivalent.**
(c) Install the 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)**

21. **INSTALL FAN AND GENERATOR V BELT (SEE PAGE 14–9)**
22. **INSTALL STABILIZER BAR FRONT (See Pub. No. RM990E , page 26–29)**
23. **INSTALL FRONT STABILIZER BRACKET NO.1 LH (See Pub. No. RM990E, page 26–29)**
24. **INSTALL FRONT STABILIZER BRACKET NO.1 RH (See Pub. No. RM990E, page 26–29)**
25. **CONNECT FRONT STABILIZER LINK ASSY LH (See Pub. No. RM990E, page 26–29)**
26. **CONNECT FRONT STABILIZER LINK ASSY RH (See Pub. No. RM990E, page 26–29)**
27. **INSTALL ENGINE UNDER COVER SUB–ASSY NO.1**
28. **INSTALL FRONT DISC WHEEL**
29. **CHARGE REFRIGERANT (SEE PAGE 55–1)**
    SST 07110–58060 (07117–58060, 07117–58070, 07117–58080, 07117–58090, 07117–78050, 07117–88060, 07117–88070, 07117–88080)
    **Specified amount:**
    **Single A/C: 600 ± 30 g (21.16 ± 1.06 oz.)**
    **Single A/C With Cool box: 700 ± 30 g (24.69 ± 1.06 oz.)**
    **Dual A/C: 750 ± 30 g (26.5 ± 1.06 oz.)**
    **Dual A/C With Cool box: 850 ± 30 g (30.0 ± 1.06 oz.)**
30. **WARM UP ENGINE (SEE PAGE 55–1)**
31. **CHECK FOR LEAKAGE OF REFRIGERANT (SEE PAGE 55–1)**