550WP–01

REPLACEMENT

HINT:

The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.

1. DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM (See page 55–14)

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

2. REMOVE V BELT (See page 55–23)

3. DISCONNECT COOLER REFRIGERANT DISCHARGE HOSE NO.2 (See page 55–14)

(a) Remove the bolt and disconnect the hose.

(b) Remove the O–ring from the discharge hose.

NOTICE:

Tape the disconnection parts of hoses and compressor, to protect it from dust and water.

4. DISCONNECT COOLER REFRIGERANT SUCTION HOSE NO.1 (See page 55–14)

(a) Remove the bolt and disconnect the hose.

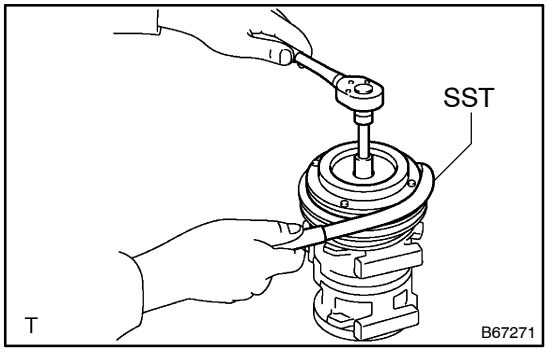
(b) Remove the O–ring from the suction hose.

NOTICE:

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

5. REMOVE COOLER COMPRESSOR ASSY

(a) Remove the 4 bolts and compressor assembly, and disconnect the connector.

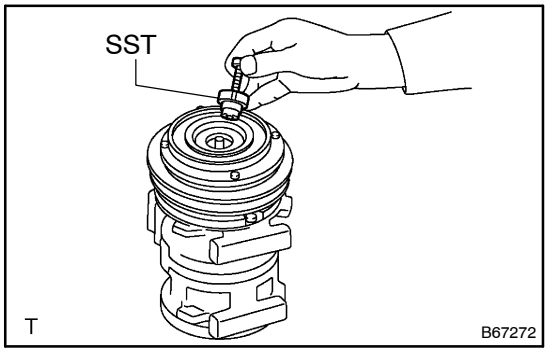


6. REMOVE MAGNET CLUTCH ASSY

(a) Remove the pressure plate.

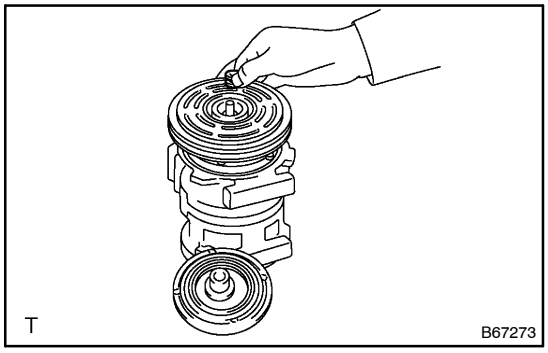
(1) Using SST and a socket wrench, remove the shaft bolt.

SST 07112–67010

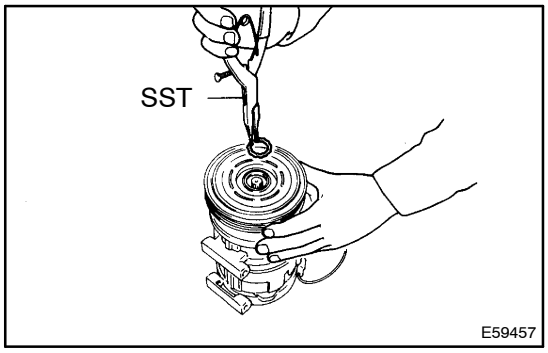


(2) Install SST.

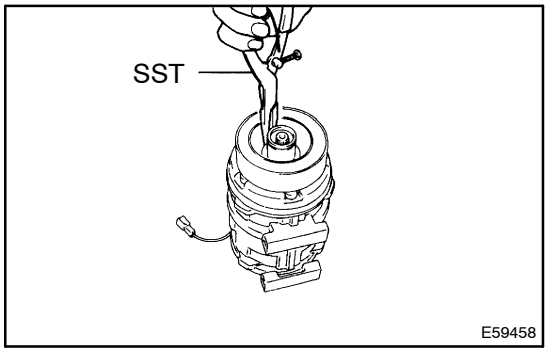
SST 07112–71010



(3) Remove the shims from the shaft.



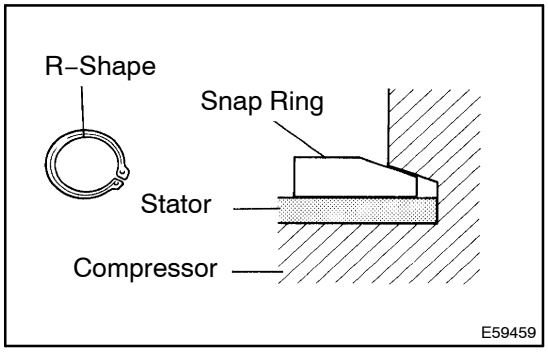
(b) Remove the rotor.
(1) Using SST, remove the snap ring.
SST 95994–10020



(c) Remove the stator.
(1) Remove the screw and disconnect the stator wire.
(2) Using SST, remove the snap ring and stator.
SST 95994–10020

7. INSTALL MAGNET CLUTCH ASSY

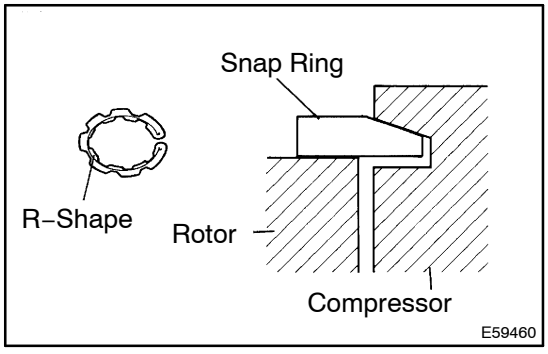
(a) Install the stator.
(1) Install the stator with the snap ring.



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

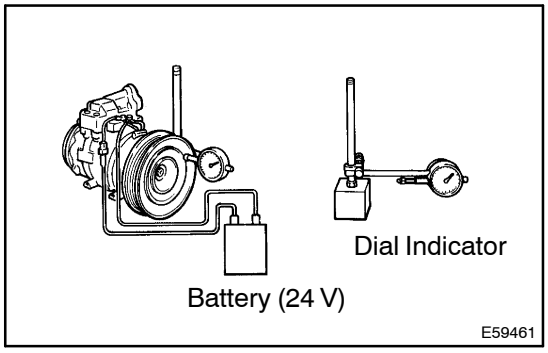
(2) Connect the stator wire with the screw.

(b) Install the rotor.
(1) Install the rotor with the snap ring.



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

(c) Install the pressure plate.
(1) Install the shims.
(2) Install the pressure plate with the bolt.
Torque: 19.6 N·m (200 kgf·cm, 15 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 positive terminal of the battery.

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

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

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

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 value:
(Oil value of new compressor) – (Oil value of replaced compressor)

(b) Install the compressor assembly with 4 bolts and connect the connector.
Torque: 25 N·m (250 kgf·cm, 18 ft·lbf)

10. INSTALL COOLER REFRIGERANT SUCTION HOSE NO.1

(a) Apply 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: 10 N·m (100 kgf·cm, 7 ft·lbf)

11. INSTALL COOLER REFRIGERANT DISCHARGE HOSE NO.2

(a) Apply 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: 10 N·m (100 kgf·cm, 7 ft·lbf)

12. INSTALL V BELT (See page 55–23)

13. ADJUST V BELT (See page 55–23)

14. CHARGE REFRIGERANT (See page 55–14)

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

15. WARM UP ENGINE

16. INSPECT LEAKAGE OF REFRIGERANT