

COMPRESSOR

INSPECTION OF COMPRESSOR

(Magnetic Clutch)

See page [AC-86](#)

(Compressor)

1. INSTALL MANIFOLD GAUGE SET

See page [AC-15](#)

2. START ENGINE

3. INSPECT COMPRESSOR FOR METALLIC SOUND

Check that there is metallic sound from the compressor when the A/C switch is turned on.

If a metallic sound is heard, replace the compressor assembly.

4. INSPECT PRESSURE OF REFRIGERATION SYSTEM

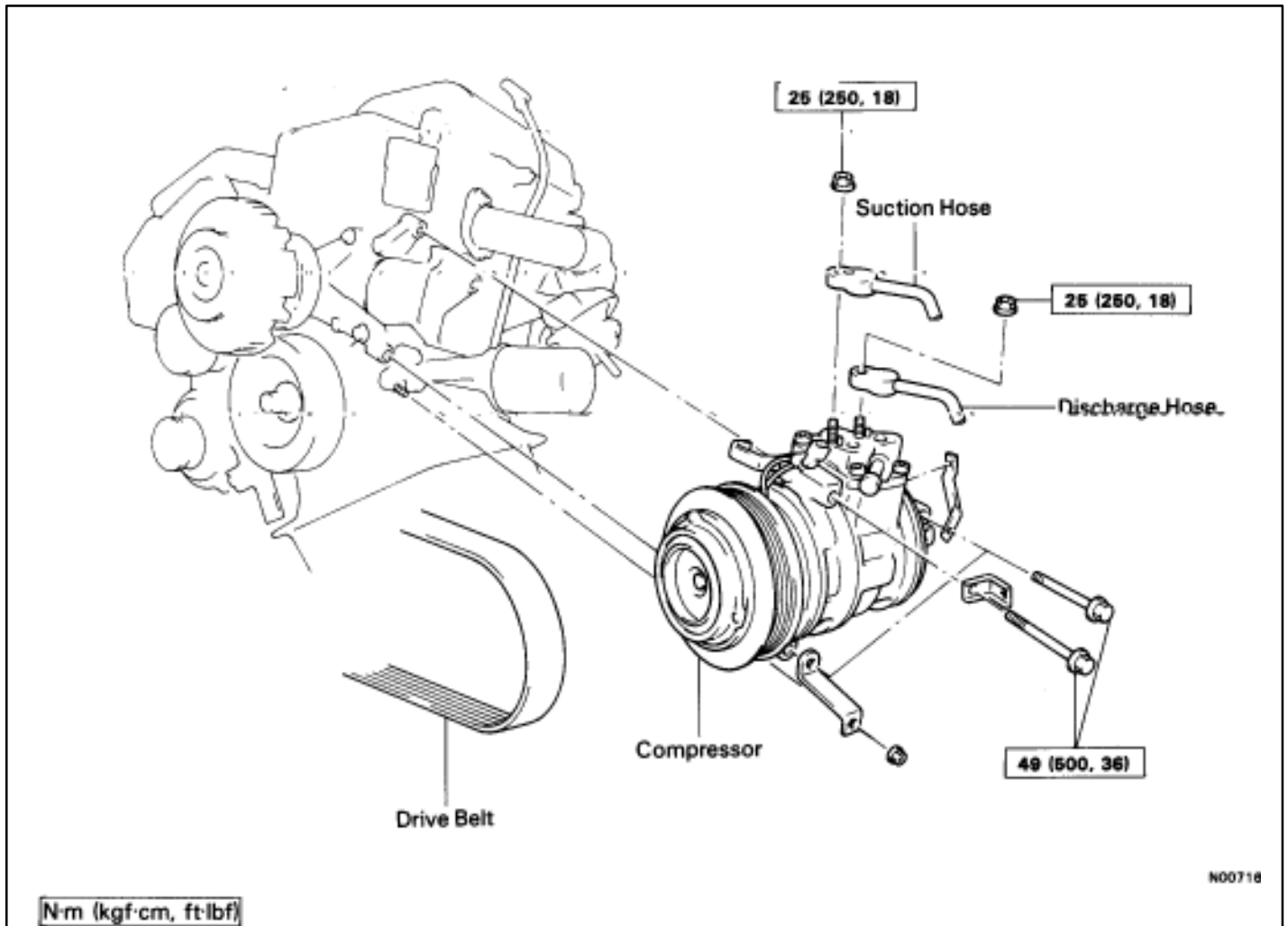
See "Inspection of Refrigeration System with Manifold Gauge Set" on page.

5. STOP ENGINE

6. INSPECT VISUALLY FOR LEAKAGE OF REFRIGERANT FROM SAFETY SEAL

If there is any leakage, replace the compressor assembly.

REMOVAL OF COMPRESSOR

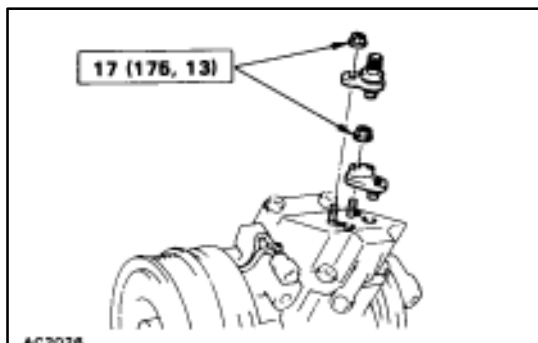


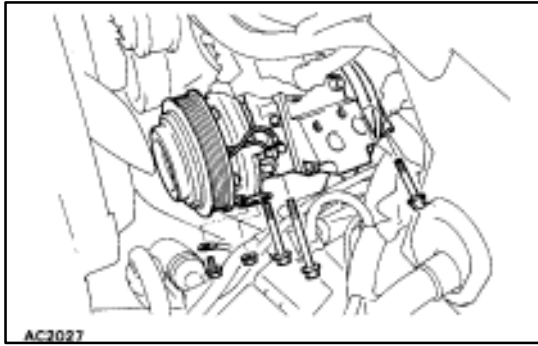
1. RUN ENGINE AT IDLE SPEED WITH A/C ON FOR APPROX. TEN MINUTES
2. STOP ENGINE
3. DISCONNECT NEGATIVE (–) CABLE FROM BATTERY
4. RECOVER REFRIGERANT FROM REFRIGERATION SYSTEM
5. DISCONNECT DISCHARGE HOSE AND SUCTION HOSE FROM COMPRESSOR

NOTICE: Cap the open fittings immediately to keep moisture out of the system.

6. DISCONNECT CONNECTOR FROM MAGNETIC CLUTCH
7. REMOVE DRIVE BELT

See step 6 on page [EM-118](#).

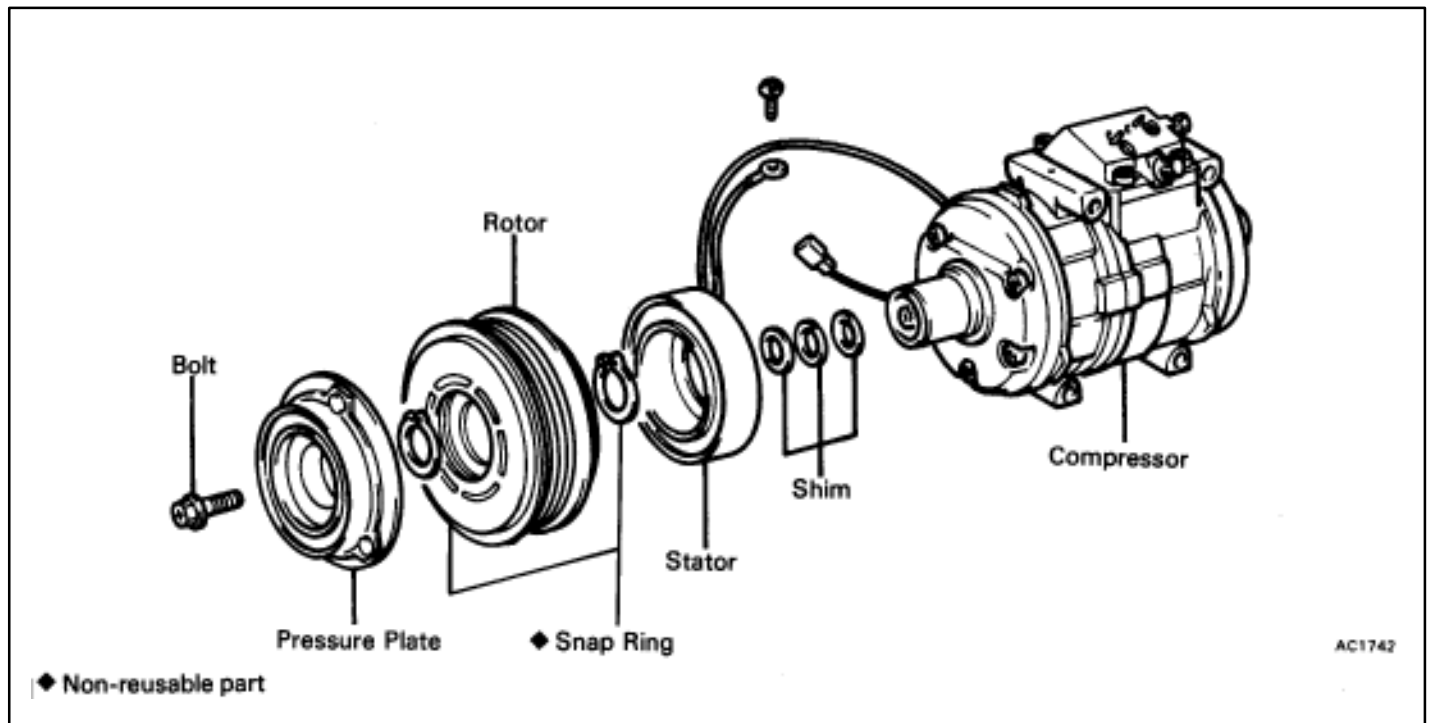


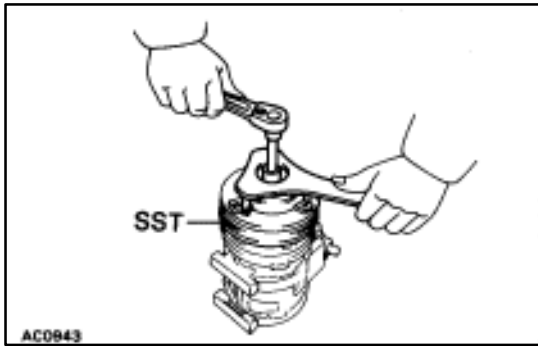


7. REMOVE COMPRESSOR

- (a) Remove under cover.
- (b) Remove harness from the clamp.
- (c) Remove the earth wire harness set bolt.
- (d) Remove the nut, three bolts, bracket and the compressor.

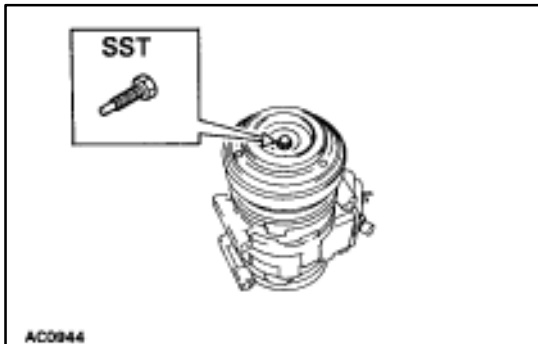
DISASSEMBLY OF MAGNETIC CLUTCH



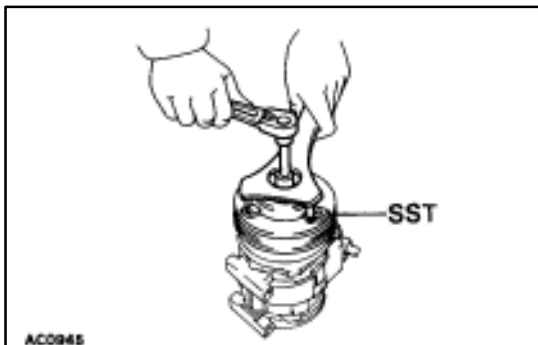


1. REMOVE PRESSURE PLATE

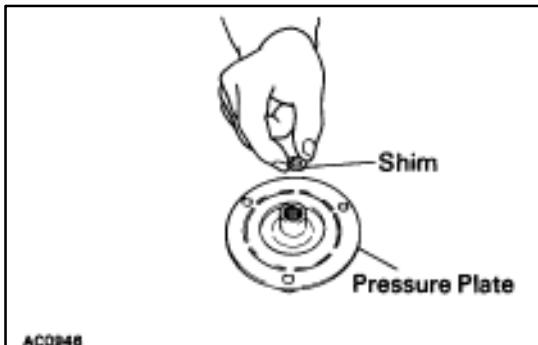
- (a) Using a SST and socket wrench, remove the shaft bolt.
SST 07112-76060



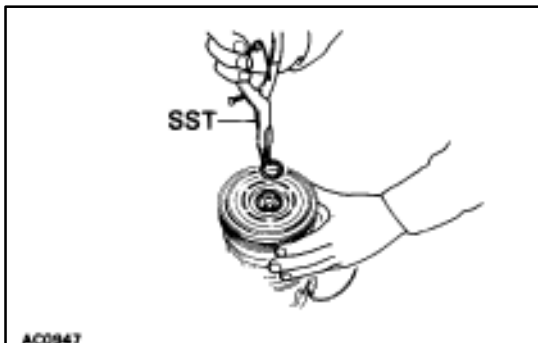
- (b) Install a SST on the pressure plate.
SST 07112-66040



- (c) Using a SST and socket wrench, remove the pressure plate.
SST 07112-76060

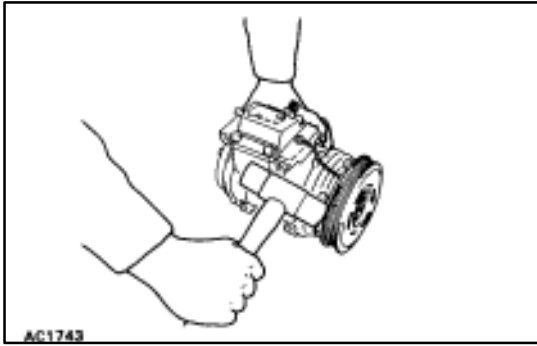


- (d) Remove the shims from the pressure plate.

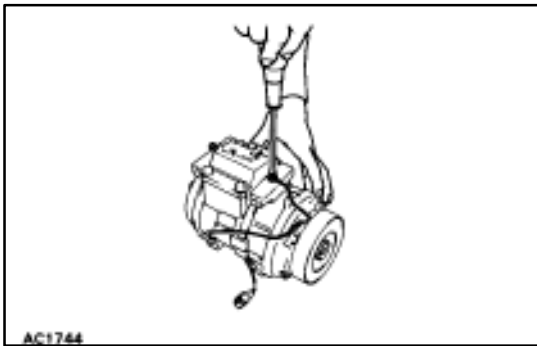


2. REMOVE ROTOR

- (a) Using a SST, remove the snap ring.
SST 07114-84020

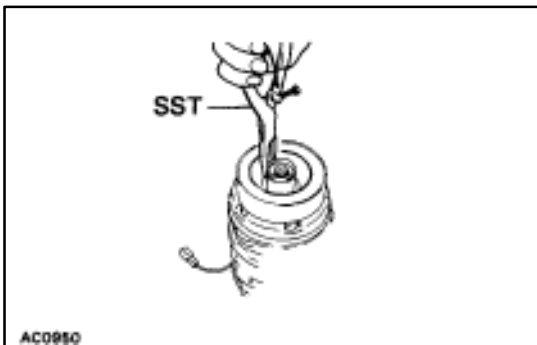


- (b) Using a plastic hammer, tap the rotor off the shaft.
NOTICE: Be careful not to damage the pulley when tapping on the rotor.

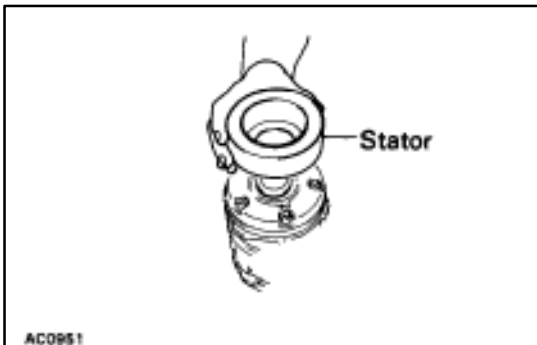


3. REMOVE STATOR

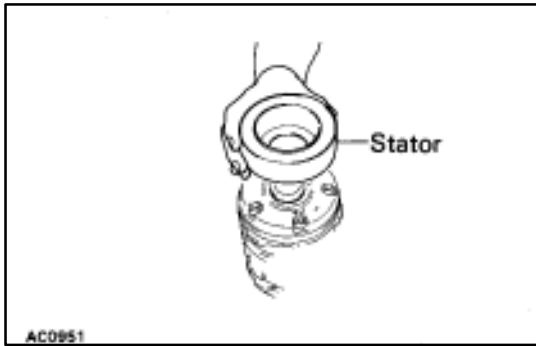
- (a) Disconnect the stator lead wire from the compressor housing.



- (b) Using a SST, remove the snap ring.
SST 07114-84020



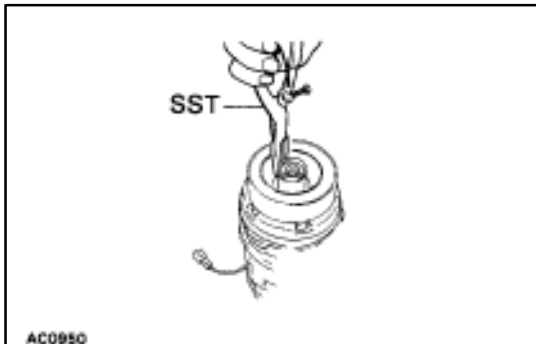
- (c) Remove the stator.



ASSEMBLY OF MAGNETIC CLUTCH

1. INSTALL STATOR

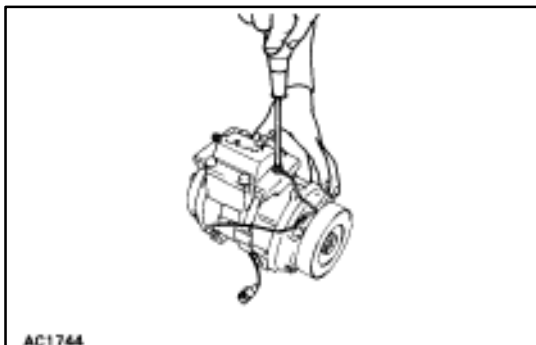
- (a) Install the stator on the compressor.



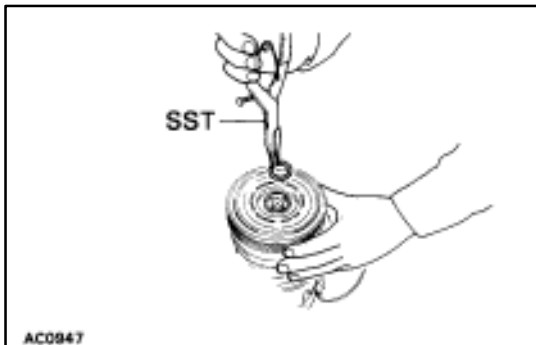
- (b) Using a SST, install the snap ring.

SST 07114-84020

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



- (c) Connect the stator lead wires to the compressor housing.



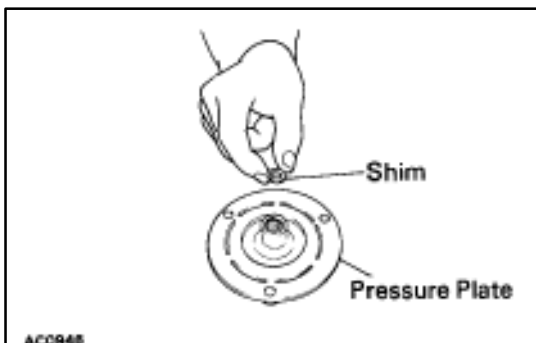
2. INSTALL ROTOR

- (a) Install the rotor on the compressor shaft.

- (b) Using a SST, install the snap ring.

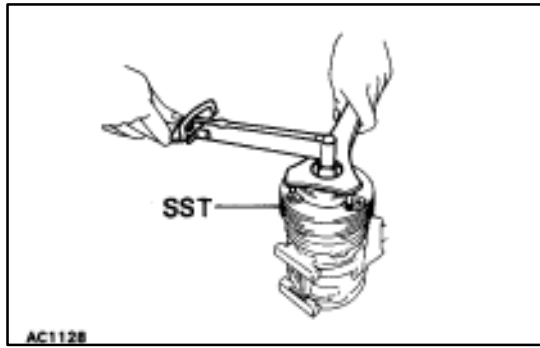
SST 07114-84020

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

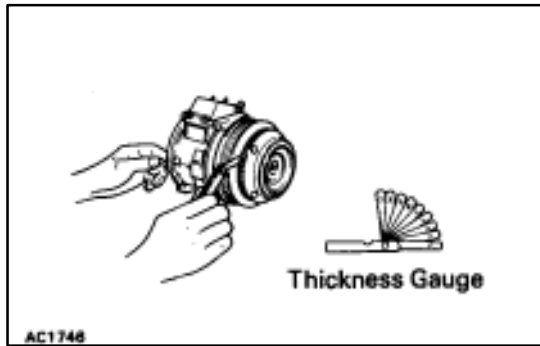


3. INSTALL PRESSURE PLATE

- (a) Put the shims to the pressure plate.



- (b) Using SST and torque wrench, install the shaft bolt.
SST 07112-76060
Torque: 14 N·m (140 kgf·cm, 10 ft·lbf)

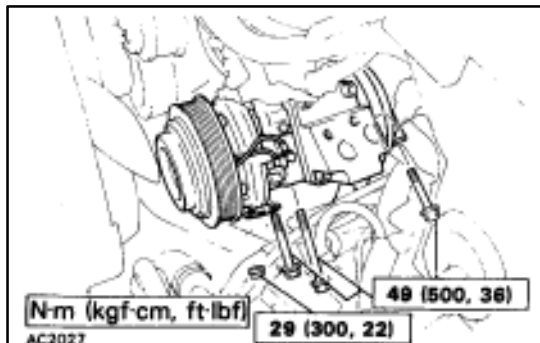


4. CHECK CLEARANCE MAGNETIC CLUTCH

Check the clearance between the pressure plate and rotor using thickness gauge.

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

If the clearance is not within tolerance, change the number of shims to obtain the standard clearance.



INSTALLATION OF COMPRESSOR

1. INSTALL COMPRESSOR

- (a) Install the compressor with the bracket, nut and the three bolts.

Specified torque:

Bolts 49 N·m (500 kgf·cm, 36 ft·lbf)

Nut 29 N·m (300 kgf·cm, 22 ft·lbf)

- (b) Install the earth wire harness with the bolts.
(c) Install the wire harness to the clamp.

2. INSTALL DRIVE BELT

See step 32 on page [EM-177](#).

3. CONNECT CONNECTOR TO MAGNETIC CLUTCH

4. CONNECT DISCHARGE HOSE AND SUCTION HOSE TO COMPRESSOR

NOTICE: Hoses should be connected immediately after the caps have been removed.

Specified torque: 25 N·m (250 kgf·cm, 18 ft·lbf)

5. EVACUATE AIR IN REFRIGERATION SYSTEM AND CHARGE WITH REFRIGERANT

See page [AC-17](#).

Specified amount: 950 ± 50 g (33.44 ± 1.76 oz)

6. INSPECT FOR LEAKAGE OF REFRIGERANT

Using a gas leak tester, check for leakage of refrigerant.
If there is leakage, check the tightening torque at the joints.

7. INSPECT A/C OPERATION