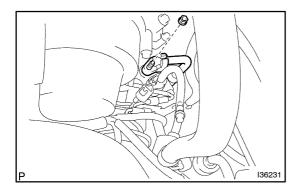
OVERHAUL

HINT:

COMPONENTS: See page 55-33

- 1. DISCONNECT NEGATIVE TERMINAL CABLE FROM BATTERY
- 2. EVACUATE[REFRIGERANT[HFC-134A[R134A)[SEE[PAGE[55-11]
- 3. REMOVE[AIR[CLEANER[INLET[NO.1][SEE[PAGE 13-6]
- 4. REMOVE FAN AND GENERATOR V BELT (SEE PAGE 14-6)
- 5. REMOVE ENGINE UNDER COVER NO.1

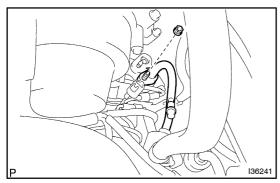


6. DISCONNECT COOLER REFRIGERANT DISCHARGE HOSE NO.1

- (a) Remove the nut and disconnect the cooler refrigerant discharge hose No.1.
- (b) Remove the O-ring from the cooler refrigerant discharge hose No.1.

NOTICE:

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

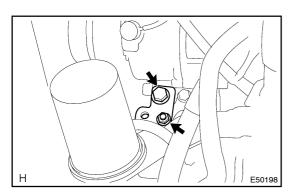


7. DISCONNECT COOLER REFRIGERANT SUCTION HOSE NO.1

- (a) Remove the nut and disconnect the cooler refrigerant suction hose No.1.
- (b) Remove the O-ring from the cooler refrigerant suction hose No.1.

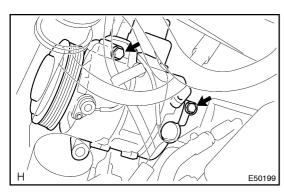
NOTICE:

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



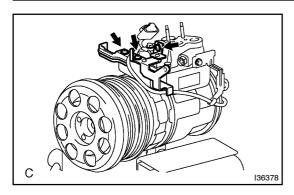
8. REMOVE COMPRESSOR MOUNTING BRACKET NO.1

(a) Remove the bolt, nut and compressor mounting bracket No.1.



9. REMOVE COMPRESSOR AND MAGNETIC CLUTCH

- (a) Disconnect the connector.
- (b) Remove the 2 bolts, compressor and magnetic clutch.



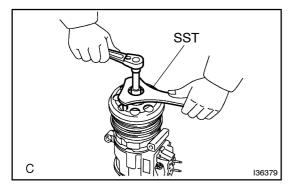
10. REMOVE COOLER COMPRESSOR BRACKET

(a) Place the compressor and magnet clutch in a vice.

NOTICE:

Do not get the bracket and harness caught in the vice.

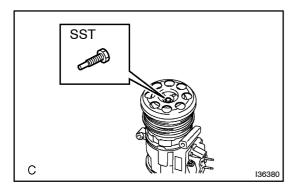
(b) Remove the screw and cooler compressor bracket.



11. REMOVE MAGNET CLUTCH ASSY

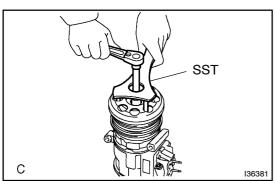
(a) Using SST and a socket wrench, remove the shaft bolt. SST 07112–76060

Torque: 13.2 N·m (135 kgf·cm, 9 ft·lbf)



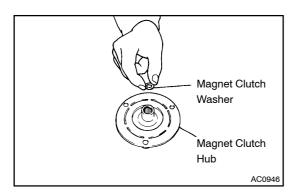
(b) Install SST on the magnet clutch hub.

SST 07112-66040

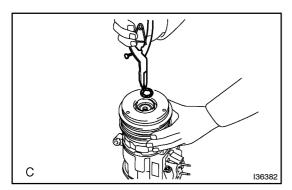


(c) Using SST and a socket wrench, remove the magnet clutch hub.

SST 07112-76060, 07112-66040



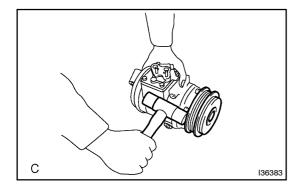
(d) Remove the magnet clutch washer from the magnet clutch hub.



(e) Using a snap ring expander, remove the snap ring.

NOTICE:

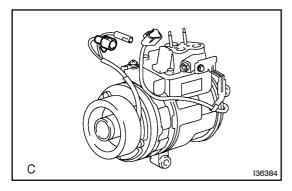
Do not damage the seal cover of the bearing when removing the snap ring.



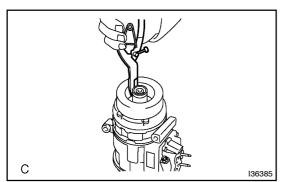
(f) Using a plastic hammer, tap the magnet clutch rotor off the shaft.

NOTICE:

Be careful not to damage the pulley when tapping on the rotor.



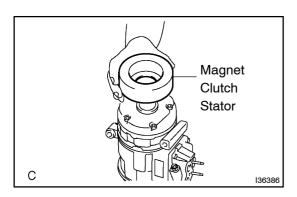
(g) Disconnect the connector from the magnet clutch stator.



(h) Using a snap ring expander, remove the snap ring.

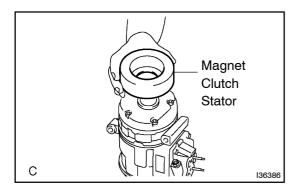
NOTICE:

Do not damage the seal cover of the bearing when removing the snap ring.



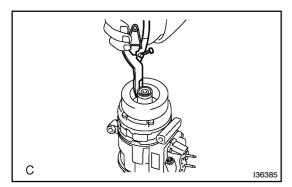
(i) Remove the magnet clutch stator.

12. REMOVE COOLER COMPRESSOR ASSY

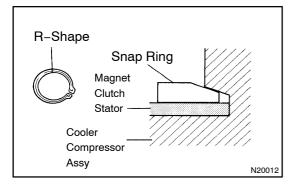


13. INSTALL MAGNET CLUTCH ASSY

(a) Install the magnet clutch stator.

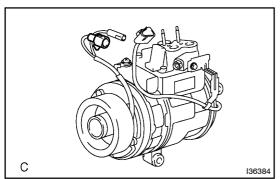


(b) Using a snap ring expander, install a new snap ring with the beveled side facing up.

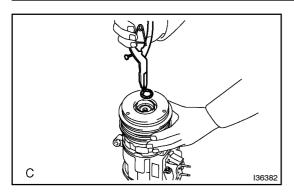


NOTICE:

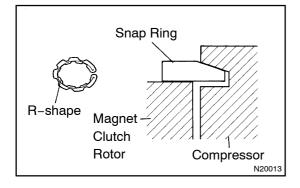
- The snap ring should be installed so that its beveled side faces up.
- Do not damage the seal cover of the bearing when installing the snap ring.



(c) Connect the connector to the magnet clutch stator.

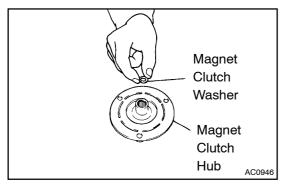


- (d) Install the magnet clutch rotor.
- (e) Using a snap ring expander, install a new snap ring with the beveled side facing up.

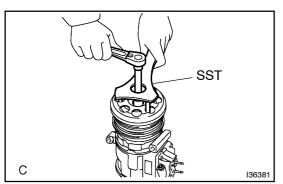


NOTICE:

- The snap ring should be installed so that its beveled side faces up.
- Do not damage the seal cover of the bearing when installing the snap ring.

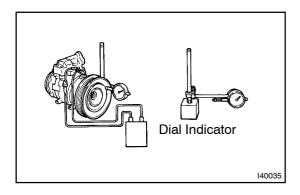


(f) Install the magnet clutch washer to the magnet clutch hub. Install the magnet clutch hub on the magnet clutch rotor.



(g) Using SST and a torque wrench, install the shaft bolt. SST 07112-66040, 07112-76060

Torque: 13.2 N·m (135 kgf·cm, 9 ft·lbf)



14. INSPECT MAGNET 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:

0.30 to 0.55 mm (0.012 to 0.022 in.)

If clearance is not within the specified range, adjust the clearance using a magnet clutch washer until standard clearance is obtained.

Magnet clutch washer thickness:

0.1 mm (0.004 in.)

0.3 mm (0.012 in.)

0.5 mm (0.020 in.)

15. ADJUST COMPRESSOR OIL

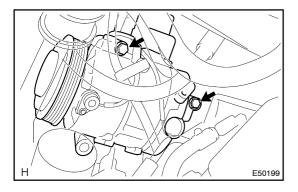
(a) When replacing the compressor and magnetic clutch with a new one, after gradually removing the refrigerant gas from the service valve, drain the following amount of oil from the new compressor and magnetic clutch before installation.

Standard:

(Oil capacity inside the new compressor: 180 + 15 cc (6.1 + 0.51 fl.oz.)) – (Remaining oil amount in the removed compressor) = (Oil amount to be removed from the new compressor when replacing)

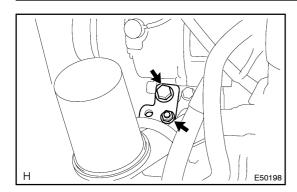
NOTICE:

- When checking the compressor oil level, observe the precautions for air conditioning radiator assy removal/installation.
- Since 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.



16. TEMPORARILY TIGHTEN COMPRESSOR AND MAGNETIC CLUTCH

- (a) Temporarily tighten the cooler compressor w/ magnet clutch assy with the 2 bolts.
- (b) Connect the connector.

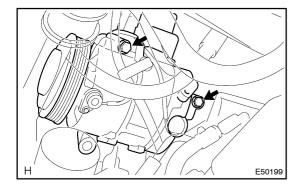


17. INSTALL COMPRESSOR MOUNTING BRACKET NO.1

(a) Install the compressor mounting bracket with the bolt and nut.

Torque:

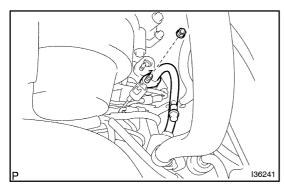
Bolt: 49 N·m 500 kgf·cm, 36 ft bf)
Nut: 30 N·m 306 kgf·cm, 22 ft bf)



18. FULLY TIGHTEN COMPRESSOR AND MAGNETIC CLUTCH

(a) Fully fight in fine con in easy with the control of the contro

Torque: 49[N·m[500[kgf·cm, 36[ft]]bf)

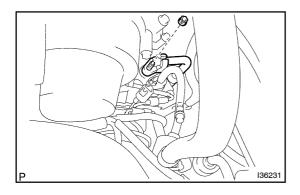


19. INSTALL COOLER REFRIGERANT SUCTION HOSE NO.1

- (a) Remove the attached viny tape from the hose.
- (b) Sufficiently apply compressor bil to the hew O-ring and fitting surface of the compressor and magnetic blutch.

 Compressor bil: ND-OIL for equivalent
- (c) Install $\[an \] O-ring \] to \] the \] cooler \] refrigerant \] suction \] hose No.1.$
- (d) Install the cooler refrigerant suction hose No.1 to the compressor and magnetic flutch with the hut.

Torque: 9.8 N·m (100 kgf·cm, 7 ft bf)



20. INSTALL CODUER REFRIGERANT DISCHARGE HOSE NO.1

- (a) Remove the tatached viny that ape from the those.
- (b) Sufficiently apply compressor bil to the new O-ring and fitting surface of the compressor and magnetic blutch.

Compressor oil: ND-OIL or equivalent

- (c) Installan D-ring do the cooler defrigerant discharge hose No.1.
- (d) Install the cooler refrigerant discharge hose No.1 to the compressor and magnetic clutch with the nut.

Torque: 9.8 N·m (100 kgf·cm, 7 ft bf)

- 21. INSTALL FAN AND GENERATOR V BELT SEE PAGE 14-6)
- 22. INSTALL[AIR[CLEANER]]NLET[NO.1[SEE[PAGE 13-6]
- 23. CONNECT NEGATIVE TERMINAL CABLE TO BATTERY
- 24. CHARGE [REFRIGERANT [SEE PAGE 55-11)]

25. WARM UP ENGINE

26. INSPECT FOR REFRIGERANT LEAKAGE SEE PAGE 55-11)