

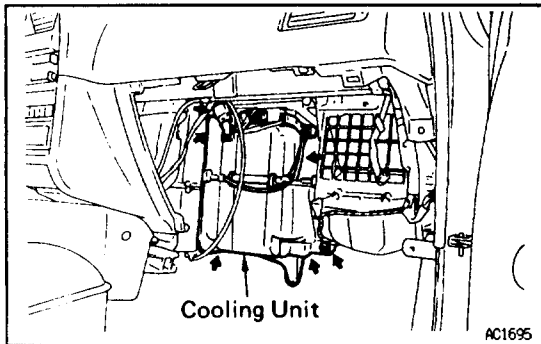
COOLING UNIT

COOLING UNIT REMOVAL

1. DISCONNECT NEGATIVE (-) CABLE FROM BATTERY
2. RECOVER REFRIGERANT FROM REFRIGERATION SYSTEM
3. DISCONNECT SUCTION TUBE AND LIQUID TUBE FROM COOLING UNIT OUTLET FITTING
4. DISCONNECT LIQUID TUBE FROM COOLING UNIT INLET FITTING

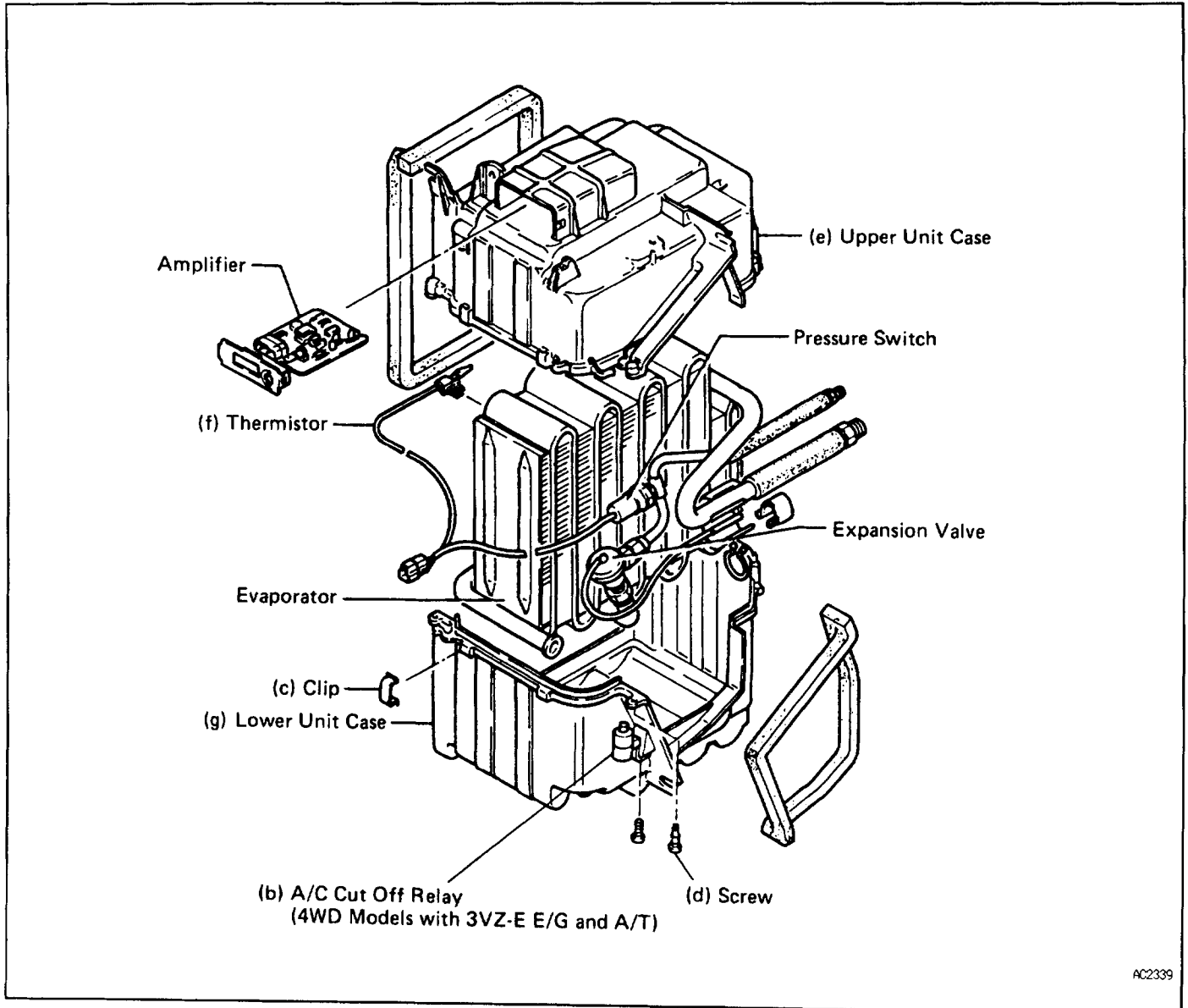
HINT: Cap the open fittings immediately to keep moisture out of the system.

5. REMOVE GROMMETS FROM INLET AND OUTLET FITTINGS
6. REMOVE GLOVE BOX



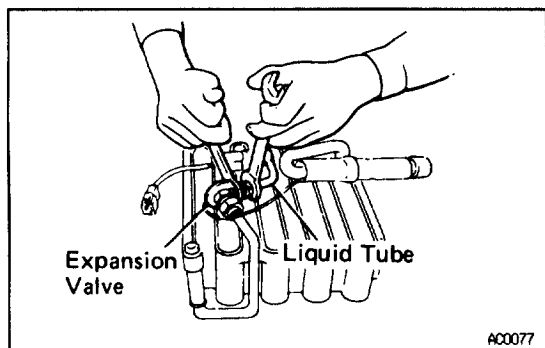
7. DISCONNECT CONNECTOR
 8. REMOVE COOLING UNIT
- Remove the 5 screws and a nut.

COOLING UNIT DISASSEMBLY



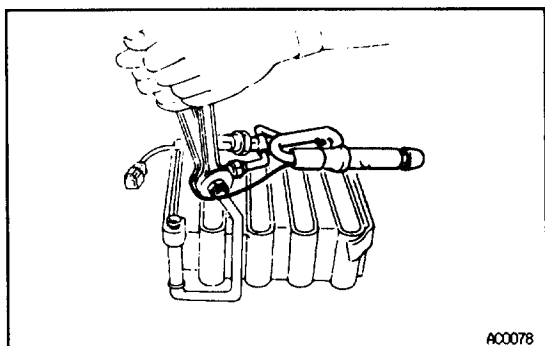
1. REMOVE UPPER AND LOWER CASE

- Disconnect the connector.
- Remove the A/C cut off relay (4WD with 3VZ-E E/G and A/T)
- Remove the 4 clips.
- Remove the 4 screws.
- Remove the upper unit case.
- Remove the thermistor with the thermistor holder.
- Remove the lower unit case.

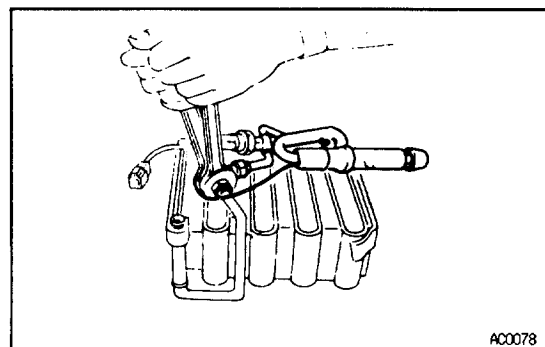


2. REMOVE EXPANSION VALVE

- (a) Disconnect the liquid tube from the inlet fitting of the expansion valve.
- (b) Remove the packing and the heat sensing tube from the suction tube of the evaporator.



- (c) Remove the expansion valve.



COOLING UNIT ASSEMBLY

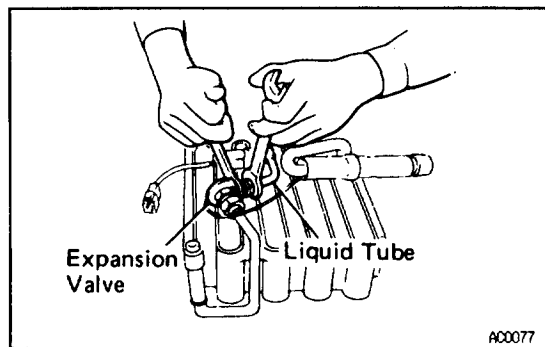
1. CONNECT EXPANSION VALVE TO EVAPORATOR

- (a) Connect the expansion valve to the inlet fitting of the evaporator.

Torque: 23 N·m (235 kgf·cm, 17 in·lbf)

HINT: Be sure that the O-rings are positioned on the tube fitting.

- (b) Install the holder to the suction tube with heat sensitizing tube.

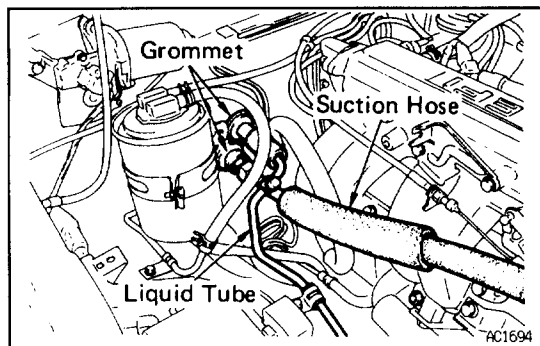
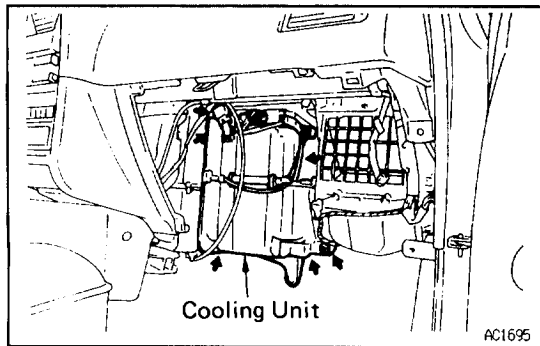


- (c) Connect the liquid tube to the suction tube to the inlet fitting of the expansion valve. Torque the nut.

Torque: 13 N·m (135 kgf·cm, 10 ft·lbf)

2. INSTALL UPPER AND LOWER CASE TO EVAPORATOR

- (a) Install the lower unit case to the evaporator.
- (b) Install the thermistor to the evaporator.
- (c) Install the upper unit case.
- (d) Install the 4 screws.
- (e) Install the 4 clips.
- (f) Install the A/C cut off relay. (4WD with 3VZ-E E/G and A/T)
- (g) Connect the connector.



COOLING UNIT INSTALLATION

1. INSTALL COOLING UNIT

Install the cooling unit with the 4 screws and the bolt.

2. CONNECT CONNECTORS

3. INSTALL GLOVE BOX AND REINFORCEMENT

4. INSTALL GROMMETS ON INLET AND OUTLET FITTING

5. CONNECT LIQUID TUBE TO COOLING UNIT INLET FITTING

Torque: 13 N·m (135 kgf·cm, 10 ft·lbf)

6. CONNECT SUCTION TUBE TO COOLING UNIT OUTLET FITTING

Torque: 32 N·m (325 kgf·cm, 24 ft·lbf)

7. IF EVAPORATOR WAS REPLACED, ADD COMPRESSOR OIL TO COMPRESSOR

Add 40–50 cc (1.4–1.7 fl.oz.)

Compressor oil:

ND-OIL 6 or equivalent

8. CONNECT NEGATIVE (-) CABLE TO BATTERY

9. EVACUATE AIR FROM REFRIGERATION SYSTEM

10. CHARGE AIR CONDITIONING SYSTEM WITH REFRIGERANT AND INSPECT FOR GAS LEAKAGE

Specified amount:

750 ± 50 g (26.45 ± 1.76 oz.)