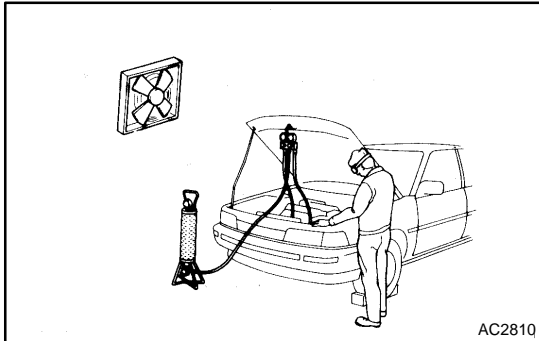


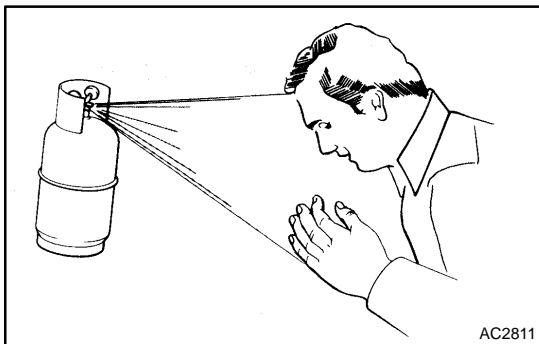
AIR CONDITIONING SYSTEM

PRECAUTION

550UR-02



1. **DO NOT HANDLE REFRIGERANT IN AN ENCLOSED AREA OR NEAR AN OPEN FLAME**
2. **ALWAYS WEAR EYE PROTECTION**



3. **BE CAREFUL NOT TO GET LIQUID REFRIGERANT IN YOUR EYES OR ON YOUR SKIN**

If liquid refrigerant gets in your eyes or on your skin.

- (a) Wash the area with lots of cold water.

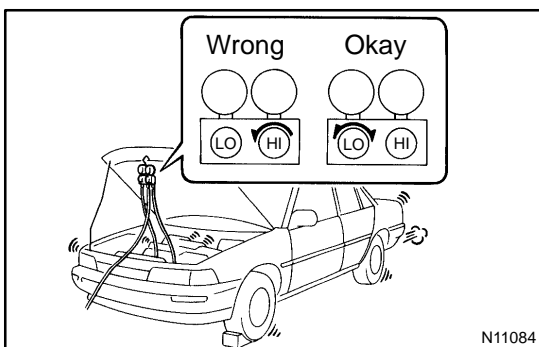
CAUTION:

Do not rub your eyes or skin.

- (b) Apply clean petroleum jelly to the skin.
- (c) Go immediately to a physician or hospital for professional treatment.

4. **NEVER HEAT CONTAINER OR EXPOSE IT TO NAKED FLAME**

5. **BE CAREFUL NOT TO DROP CONTAINER OR APPLY PHYSICAL SHOCKS TO IT**



6. **DO NOT OPERATE COMPRESSOR WITHOUT ENOUGH REFRIGERANT IN REFRIGERANT SYSTEM**

If there is not enough refrigerant in the refrigerant system, oil lubrication will be insufficient and compressor burnout may occur, so take care to avoid this, necessary care should be taken.

7. **DO NOT OPEN HIGH PRESSURE MANIFOLD VALVE WHILE COMPRESSOR IS OPERATING**

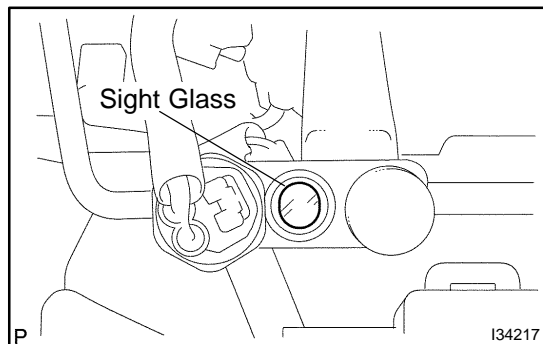
If the high pressure valve is opened, refrigerant flows in the reverse direction and could cause the charging cylinder to rupture, so open and close only the low pressure valve.

8. **BE CAREFUL NOT TO OVERCHARGE SYSTEM WITH REFRIGERANT**

If refrigerant is overcharged, it causes problems such as insufficient cooling, poor fuel economy, engine overheating, etc.

REFRIGERANT ON-VEHICLE INSPECTION

550U9-03



1. INSPECT REFRIGERANT VOLUME

- (a) Observe the sight glass on the cooler refrigerant liquid pipe A.

Test conditions:

- Engine is running at 1,500 rpm
- Blower speed control switch is at "HI"
- A/C switch is ON
- Temperature control dial is at "MAX. COOL"
- Doors are fully open.

Item	Symptom	Amount of refrigerant	Corrective Actions
1	Bubbles exist	Insufficient*	(1) Check for gas leakage and repair if necessary (2) Add refrigerant until bubbles disappear
2	No bubbles exist	Empty insufficient or excessive	Refer 3 and 4
3	No temperature difference between compressor inlet and outlet	Empty or nearly empty	(1) Check for gas leakage with gas leak detector and repair if necessary (2) Add refrigerant until bubbles disappear
4	Considerable temperature difference between compressor inlet and outlet.	Proper or excessive	Refer to 5 and 6
5	Immediately after air conditioning is turned off, refrigerant clears	Excessive	(1) Discharge refrigerant (2) Remove air and supply proper amount or purified refrigerant
6	Immediately after air conditioning is turned off, refrigerant foams and then becomes clear	Proper	–

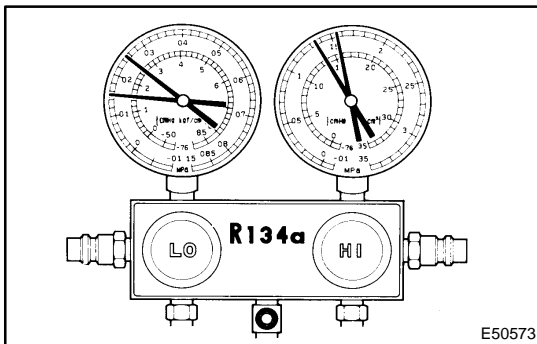
*: Bubbles in the sight glass with ambient temperatures higher than usual can be considered normal if cooling is sufficient.

2. INSPECT REFRIGERANT PRESSURE WITH MANIFOLD GAUGE SET

- (a) This is a method in which the trouble is located by using a manifold gauge set. Read the manifold gauge pressure when these conditions are established.

Test conditions:

- Temperature at the air inlet with the switch set at RECIRC is 30 to 35 °C (86 to 95 °F)
- Engine is running at 1,500 rpm
- Blower speed control switch is at "HI"
- Temperature control dial is at "COOL"
- A/C switch is ON
- Doors are fully open.



- (1) Normally functioning refrigeration system.

Gauge reading:

Low pressure side:

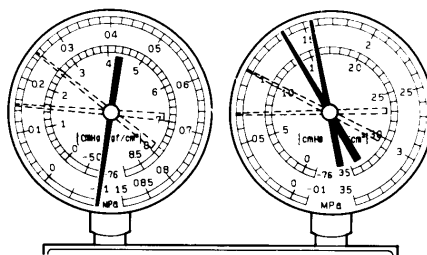
0.15 to 0.25 MPa (1.5 to 2.5 kgf/cm²)

High pressure side:

1.37 to 1.57 MPa (14 to 16 kgf/cm²)

- (2) Moisture present in refrigeration system.

Condition : Periodically cools and then fails to cool

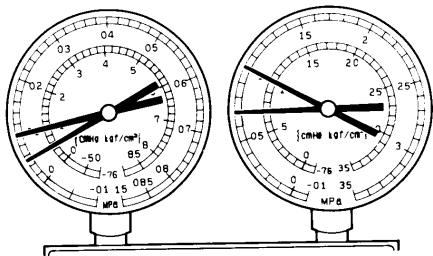


I22117

Symptom	Probable cause	Diagnosis	Remedy
During operation, pressure on low pressure side sometimes becomes a vacuum and sometime normal	Moisture in refrigeration system freezes at expansion valve orifice, causing a temporary stop of cycle. However, when it melts, normal state is restored.	<ul style="list-style-type: none"> • Drier in oversaturated state • Moisture in refrigeration system freezes at expansion valve orifice and blocks circulation of refrigerant 	(1) Replace condenser (2) Remove moisture in cycle by repeatedly evacuating air (3) Supply proper amount of new refrigerant

(3) Insufficient cooling

Condition: Cooling system does not function effectively.

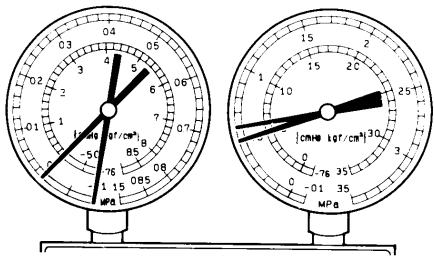


I22118

Symptom	Probable cause	Diagnosis	Corrective Actions
<ul style="list-style-type: none">• Pressure is low on both low and high pressure sides• Bubbles are seen through sight glass continuously• Insufficient cooling performance	Gas leakage in refrigeration system	<ul style="list-style-type: none">• Insufficient refrigerant• Refrigerant leaking	<ul style="list-style-type: none">(1) Check for gas leakage and repair if necessary(2) Supply proper amount of new refrigerant(3) If indicated pressure value is close to 0 when connected to the gauge, create vacuum after inspecting and repairing the location of leakage.

(4) Poor circulation of refrigerant

Condition: Cooling system dose not function effectively.

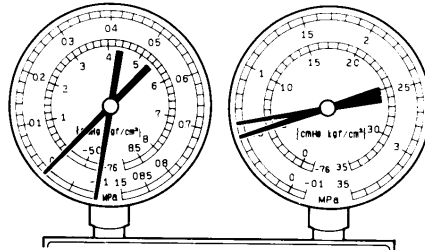


I22119

Symptom	Probable cause	Diagnosis	Corrective Action
<ul style="list-style-type: none">• Pressure is low on both the low and the high pressure sides• Frost exists on pipe from condenser to unit	Refrigerant flow is obstructed by dirt in the receiver	Receiver is clogged	Replace condenser

(5) Refrigerant does not circulate

Condition: Cooling system does not function. (Sometimes it may function.)

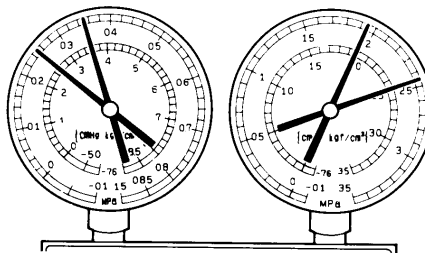


I22120

Symptom	Probable cause	Diagnosis	Corrective Actions
<ul style="list-style-type: none"> Vacuum is indicated on low pressure side and very low pressure is indicated on high pressure side Frost or dew is seen on piping on both sides of receiver/drier or expansion valve 	<ul style="list-style-type: none"> Refrigerant flow is obstructed by moisture or dirt in refrigeration system Refrigerant flow is obstructed by gas leak from expansion valve 	Refrigerant does not circulate	<ol style="list-style-type: none"> Check the expansion valve Clean out dirt in expansion valve by blowing air Replace condenser Evaporate air and supply proper amount of new refrigerant. For gas leakage from expansion valve, replace expansion valve

(6) Refrigerant is overcharged or cooling of effectiveness of condenser is insufficient

Condition: Cooling system does not function.

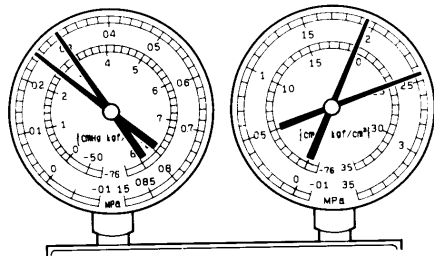


I22121

Symptom	Probable cause	Diagnosis	Remedy
<ul style="list-style-type: none"> Pressure is too high on both low and high pressure sides No air bubbles are seen through sight glass even when engine rpm lowers 	<ul style="list-style-type: none"> Unable to develop sufficient performance due to excessive use of refrigeration system Cooling effectiveness of condenser is insufficient. 	<ul style="list-style-type: none"> Excessive refrigerant in cycle→excessive refrigerant is supplied Condenser cooling effectiveness is insufficient→condenser fins are clogged at cooling fan 	<ol style="list-style-type: none"> Clean condenser Check cooling fan with cooling fan motor operation If (1) and (2) are in normal state, check the amount of refrigerant and supply proper amount of refrigerant

(7) Air present in refrigeration system

Condition: Cooling system does not function.



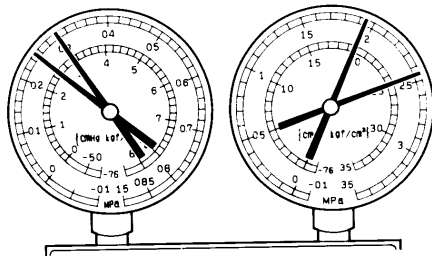
NOTE: These gauge indications are shown when the refrigeration system opens and the refrigerant is charged without vacuum purging.

I22122

Symptom	Probable cause	Diagnosis	Corrective Actions
<ul style="list-style-type: none">• Pressure is too high on both low and the high pressure sides• The low pressure piping is too hot to touch• Bubbles can be seen through sight glass	Air entered in refrigeration system	<ul style="list-style-type: none">• Air present in refrigeration system• Insufficient vacuum purging	<ul style="list-style-type: none">(1) Check compressor oil to see if it is dirty or insufficient(2) Evacuate air and supply new refrigerant

(8) Expansion valve improper

Condition: Refrigerant functions insufficiently.

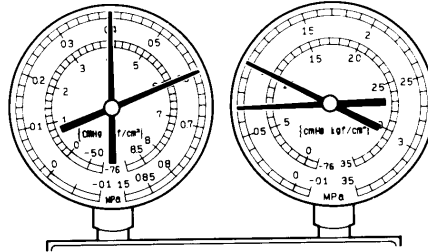


I22123

Symptom	Probable cause	Diagnosis	Corrective Actions
<ul style="list-style-type: none">• Pressure is too high on both low and high pressure sides• Frost or large amount of dew on piping on low pressure side	Trouble in expansion valve	<ul style="list-style-type: none">• Excessive refrigerant in low pressure piping• Expansion valve opened too wide	Check expansion valve

(9) Defective compression compressor

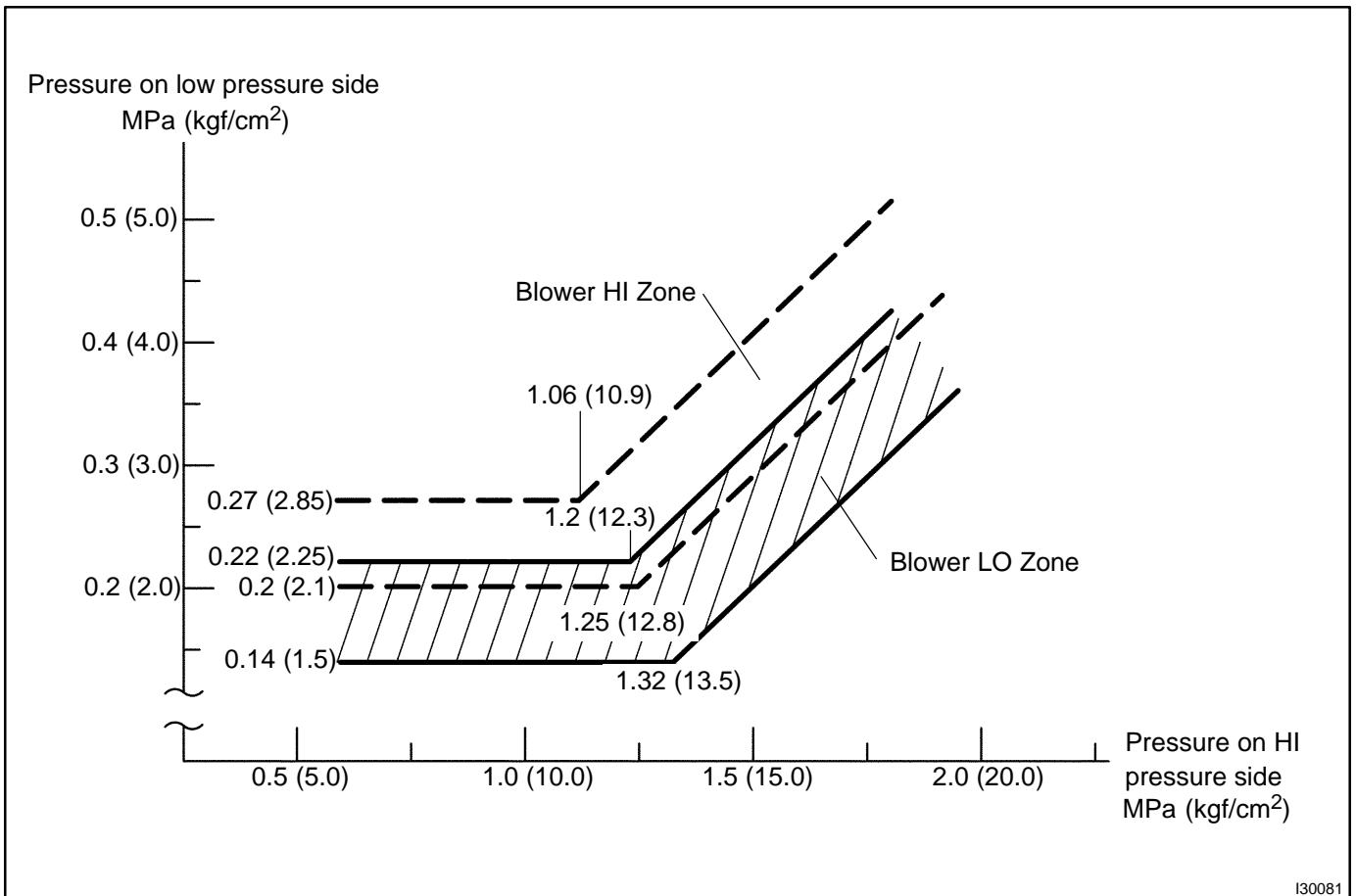
Condition : Refrigerant is not effective.



I22124

Symptom	Probable cause	Diagnosis	Corrective Actions
<ul style="list-style-type: none"> Pressure is too high both on low and high pressure sides Pressure is too low on high pressure side 	Internal leak in compressor	<ul style="list-style-type: none"> Compression failure Leakage from damaged valve or broken sliding parts 	Repair or replace compressor

Gauge readings (Reference)



REPLACEMENT

1. DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM

- Turn the A/C switch to ON.
- Operating the cooler compressor at the engine rpm of approx. 1,000 for 5 to 6 min., circulate the refrigerant and collect the compressor oil remaining in each component into the cooler compressor as much as possible.
- Stop the engine.
- Let the refrigerant gas out.
SST 07110-58060 (07117-58080, 07117-58090, 07117-78050, 07117-88060, 07117-88070, 07117-88080)

2. CHARGE REFRIGERANT

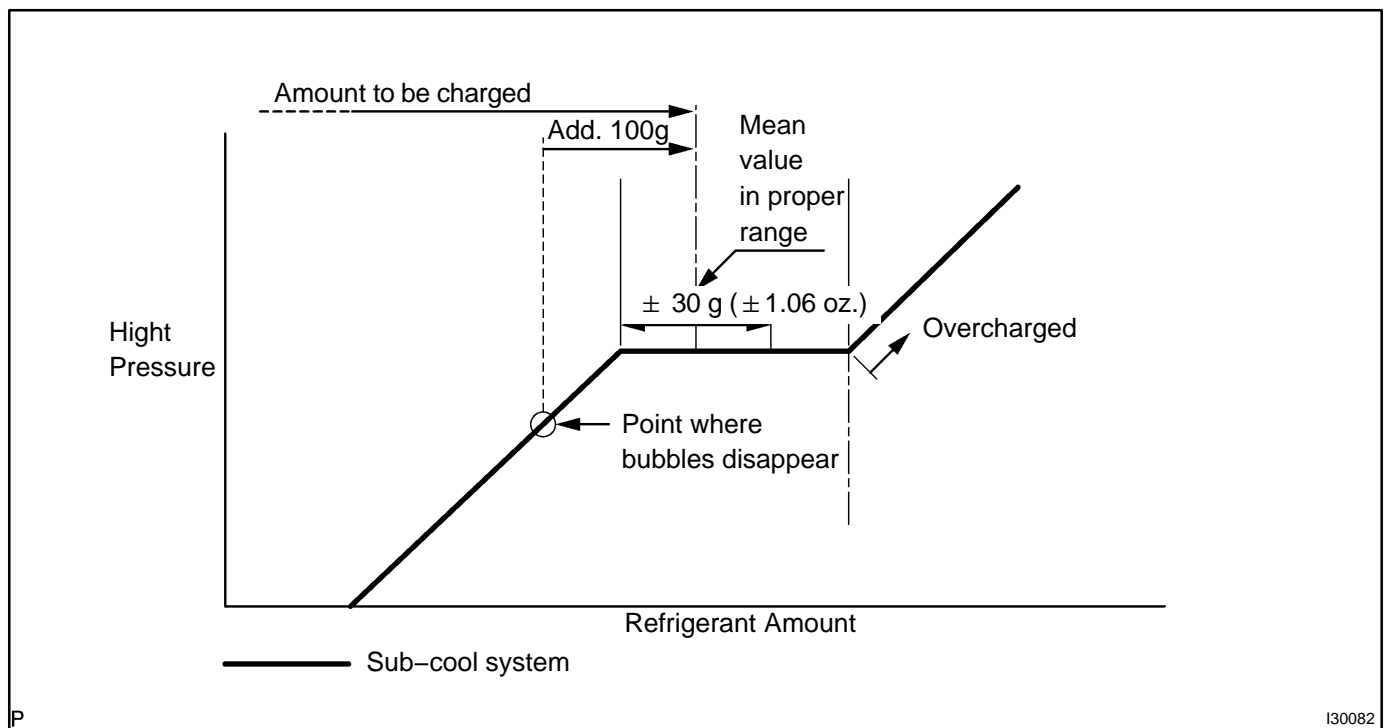
- Using a vacuum pump, perform a vacuum purging.
- Charge refrigerant, HFC-134a (R134a).

Standard:

Single A/C: 600 ± 30 g (21.16 ± 1.06 oz.)

Dual A/C: 800 ± 30 g (28.21 ± 1.06 oz.)

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



3. WARM UP ENGINE

4. INSPECT LEAKAGE OF REFRIGERANT

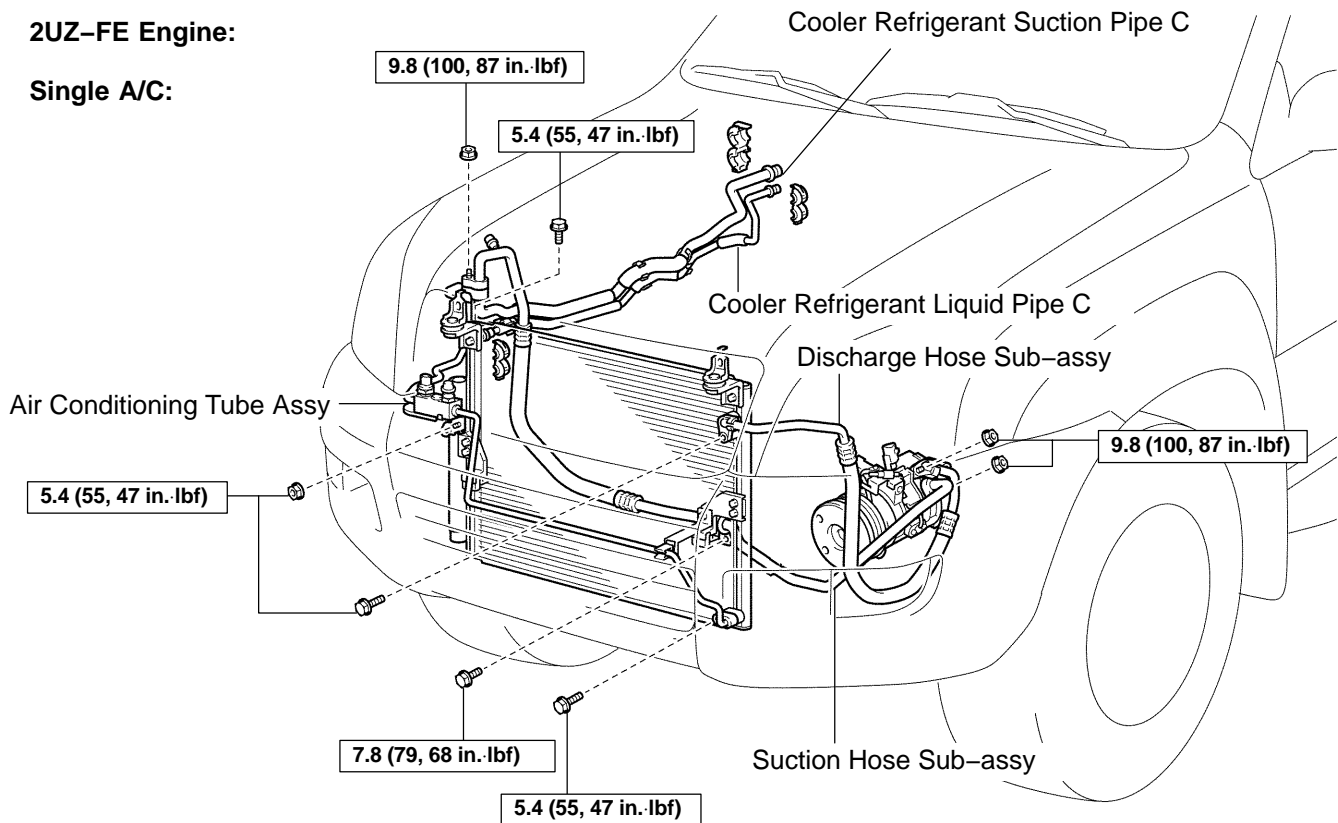
- Using a gas leak detector, check for leakage of the refrigerant.

REFRIGERANT LINE COMPONENTS

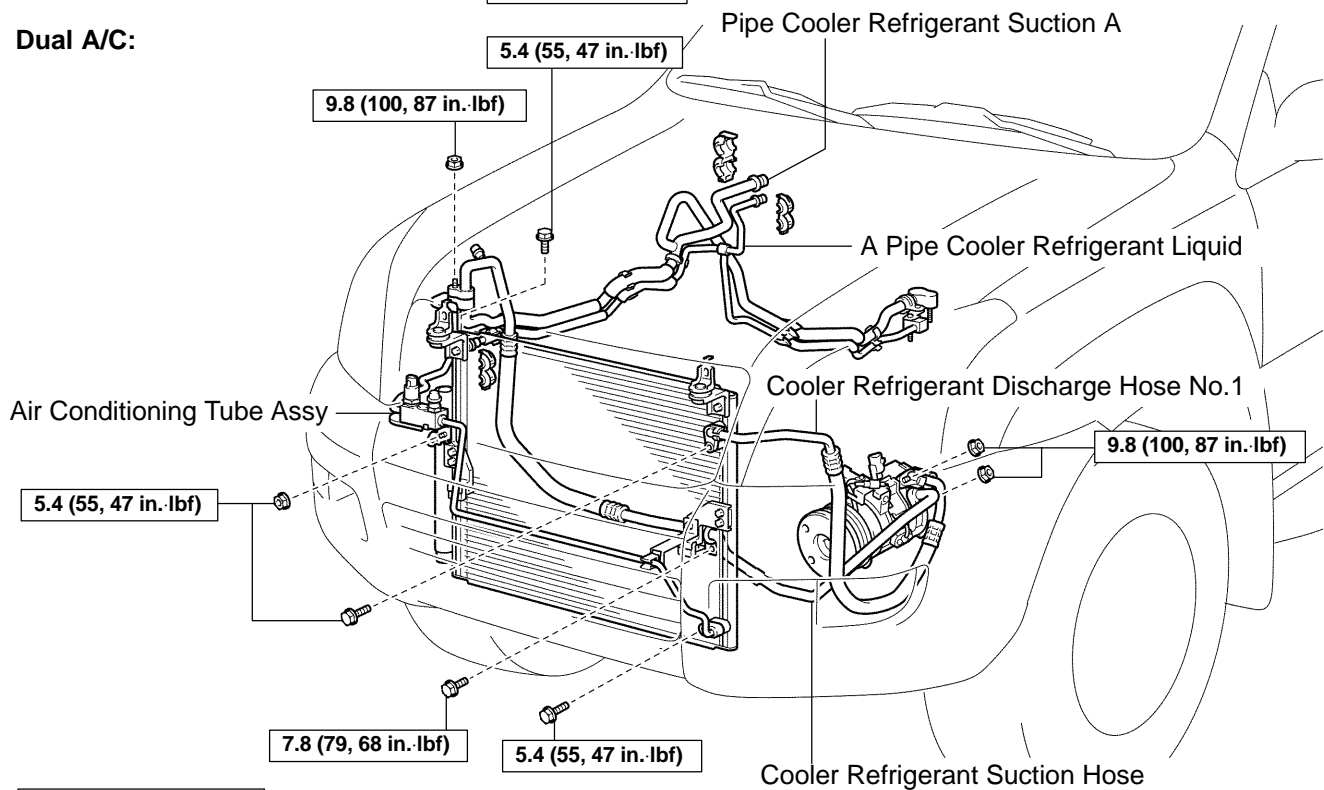
550UB-02

2UZ-FE Engine:

Single A/C:



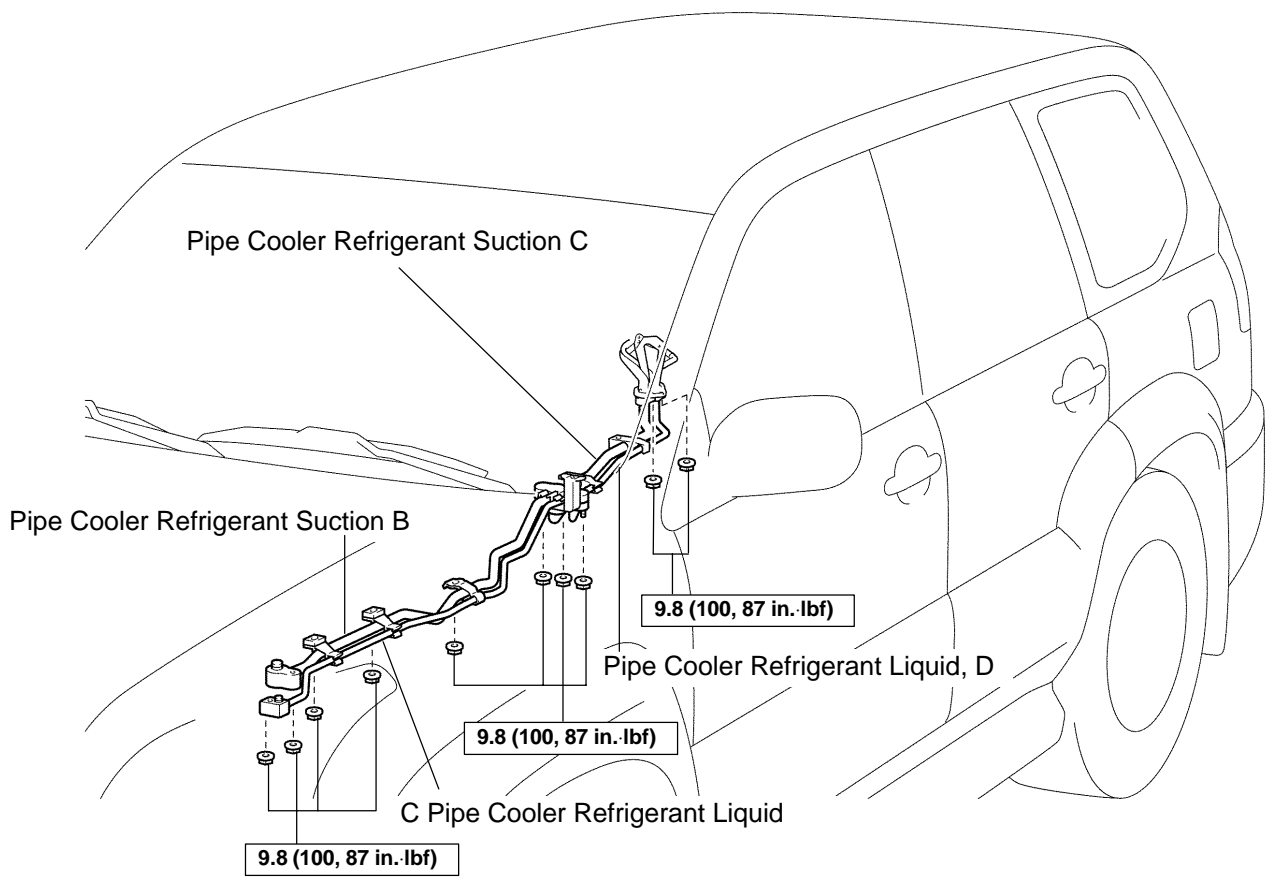
Dual A/C:



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

P

I34394

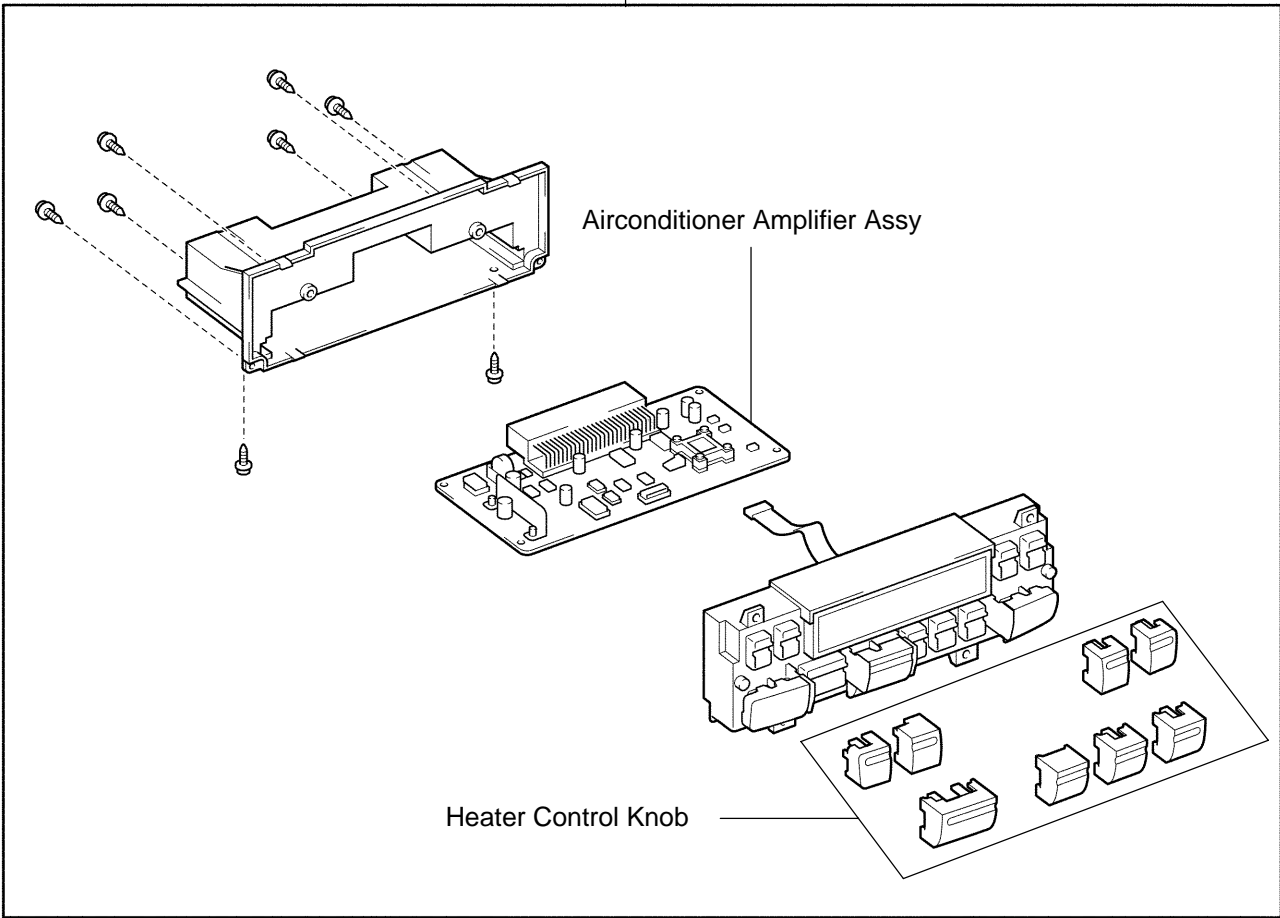
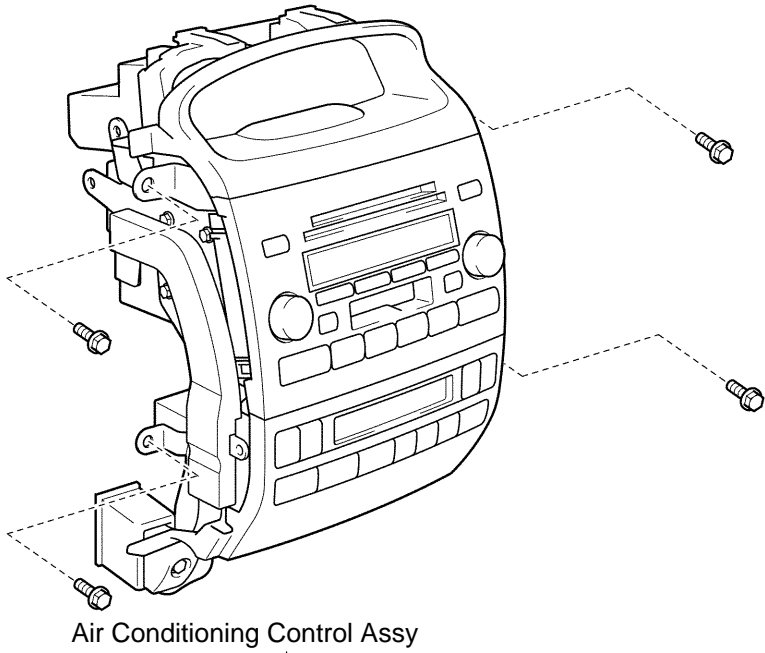
Dual A/C:

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

I34395

AIR CONDITIONING CONTROL ASSY COMPONENTS

550UC-02

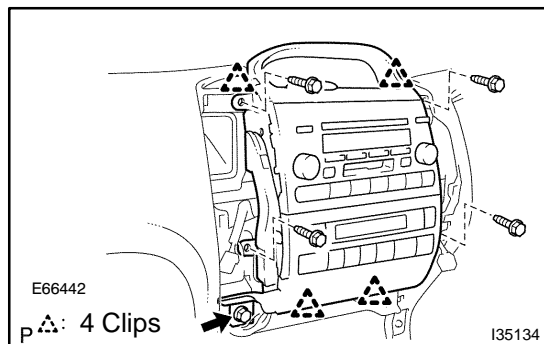


OVERHAUL

HINT:

COMPONENTS: See page 55-11

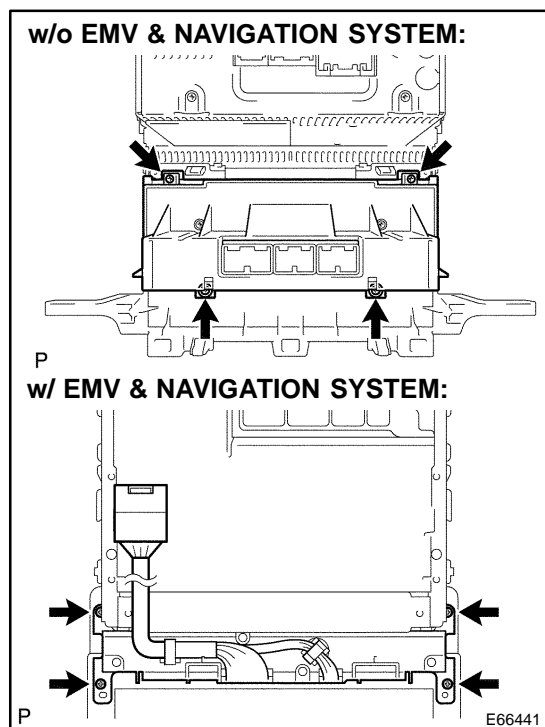
1. REMOVE INSTRUMENT PANEL GARNISH SUB-ASSY LH (See page 71-13)
2. REMOVE INSTRUMENT PANEL GARNISH SUB-ASSY RH (See page 71-13)



3. REMOVE INTEGRATION CONTROL & PANEL ASSY

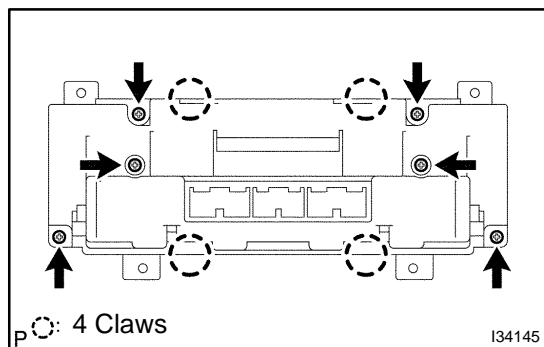
- (a) Loosen the bolt and remove the 4 bolts, the 4 clips and the integration control & panel assy.

4. REMOVE RADIO BRACKET NO.1 (See page 67-9)
5. REMOVE RADIO BRACKET NO.2 (See page 67-9)
6. REMOVE RADIO RECEIVER ASSY (W/ EMV & NAVIGATION SYSTEM) (See page 67-12)



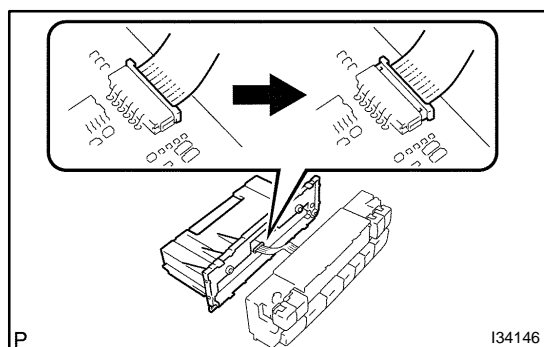
7. REMOVE AIR CONDITIONING CONTROL ASSY

- (a) Remove the 4 screws and the air conditioning control assy.

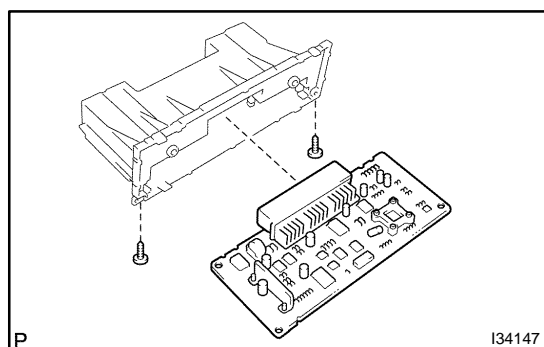


8. REMOVE AIRCONDITIONER AMPLIFIER ASSY (W/O EMV & NAVIGATION SYSTEM)

- (a) Release the 4 claw fittings and remove the 6 screws and the heater control housing.



- (b) Release the lock of the connector and disconnect the cable.



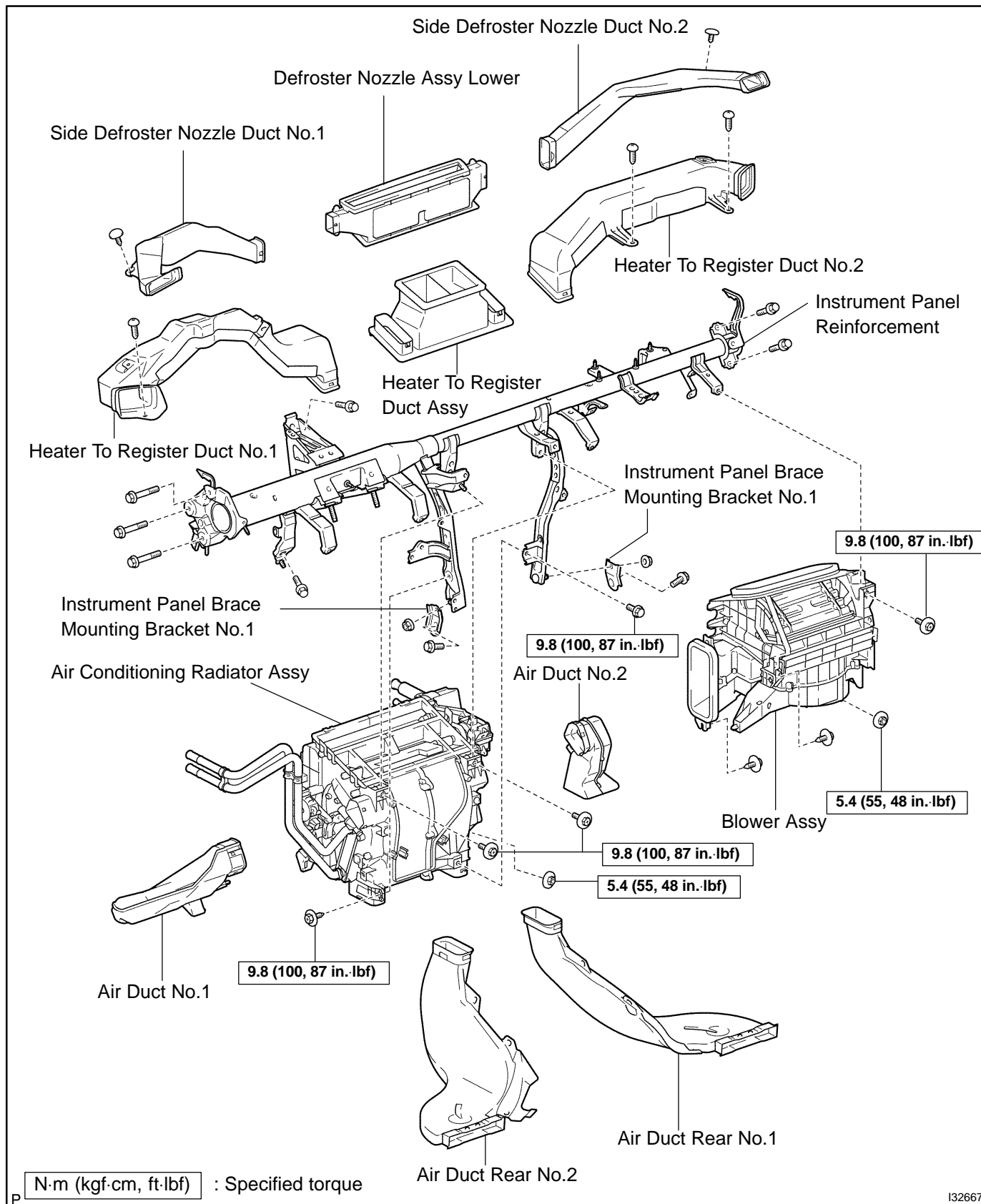
- (c) Remove the 2 screws and the air conditioner amplifier assy.

9. REMOVE AIR CONDITIONING CONTROL BULB (W/O EMV & NAVIGATION SYSTEM)

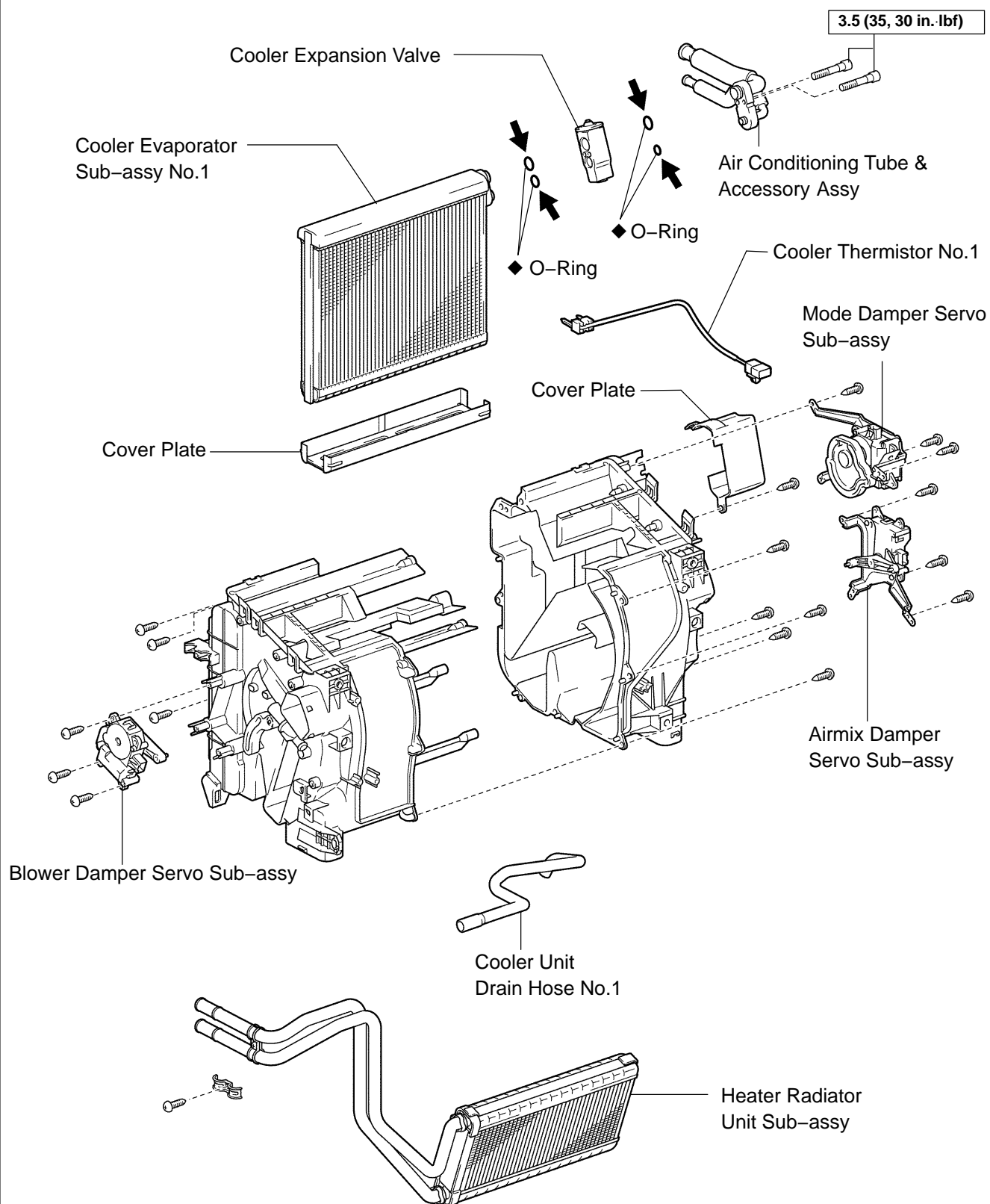
10. REMOVE HEATER CONTROL KNOB (W/O EMV & NAVIGATION SYSTEM)

AIR CONDITIONING RADIATOR ASSY COMPONENTS

550UE-02



132667



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

◆ Non-reusable part

◀ Compressor oil ND-OIL 8 or equivalent

P

cmc0217

OVERHAUL

HINT:

COMPONENTS: See page 55-14

1. DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM (See page 55-8)

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

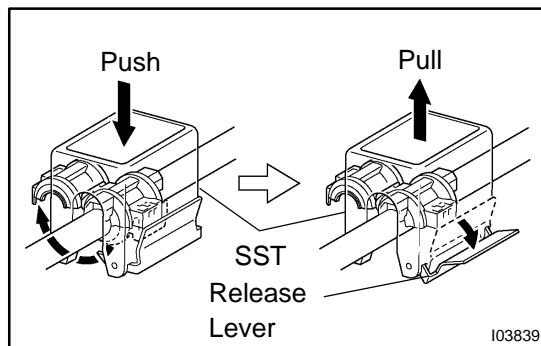
2. REMOVE COOLER REFRIGERANT SUCTION PIPE C (W/O REAR COOLER)

(a) Install SST on the piping clamp.

SST 09870-00015

HINT:

Make sure the direction of the piping clamp claw and SST by checking the illustration shown on the caution label.

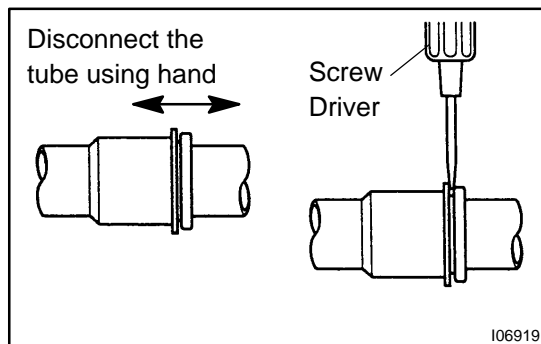


(b) Push down SST and release the clamp lock.

NOTICE:

Be careful not to deform the tube when pushing SST.

(c) Pull SST slightly and push the release lever, and then remove the piping clamp with SST.



(d) Disconnect the suction hose sub-assy.

NOTICE:

- Do not use tools like a screwdriver to remove the tube.
- Seal the opening of the disconnected parts using vinyl tape to prevent moisture and foreign matter from entering.

3. REMOVE PIPE COOLER REFRIGERANT SUCTION A (W/ REAR COOLER)

SST 09870-00015

HINT:

Disconnection of the pipe cooler refrigerant suction A is the same way as the cooler refrigerant suction pipe C.

4. REMOVE COOLER REFRIGERANT LIQUID PIPE C (W/O REAR COOLER)

SST 09870-00025

HINT:

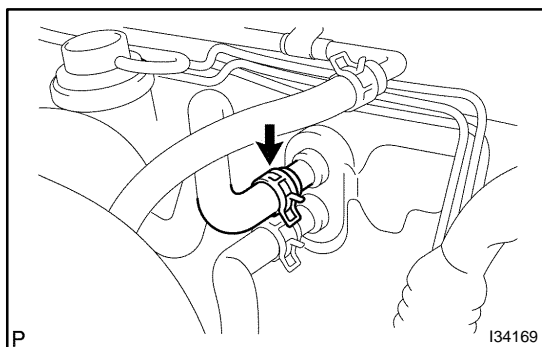
Disconnection of the cooler refrigerant liquid pipe C is the same way as the cooler refrigerant suction pipe C.

5. REMOVE COOLER REFRIGERANT LIQUID PIPE A (W/ REAR COOLER)

SST 09870-00025

HINT:

Disconnection of the cooler refrigerant liquid pipe A is the same way as the cooler refrigerant suction pipe C.



6. DISCONNECT HEATER WATER OUTLET HOSE A (FROM HEATER UNIT)

- (a) Using pliers, grip the claws of the clip and slide the clip to disconnect the heater water outlet hose A (from heater unit).

7. DISCONNECT HEATER WATER INLET HOSE A

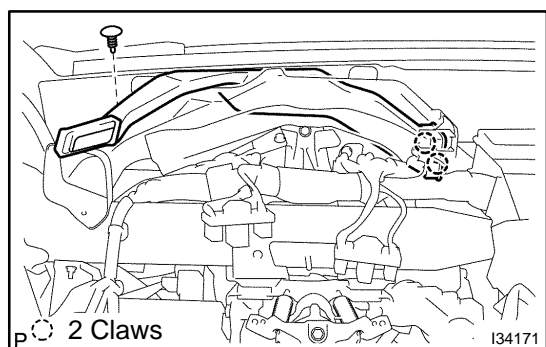
HINT:

Disconnection of the heater water inlet hose A is the same way as the heater water outlet hose A (from heater unit).

8. REMOVE INSTRUMENT PANEL SAFETY PAD SUB-ASSY W/DEFROSTER NOZZLE DUCT (See page 71-13)

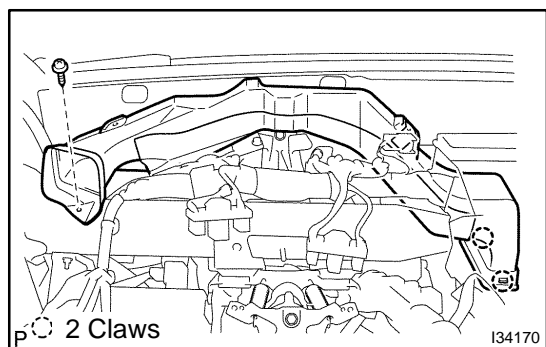
HINT:

Refer to the instructions for removal of the instrument panel safety pad sub-assy w/ defroster nozzle duct.



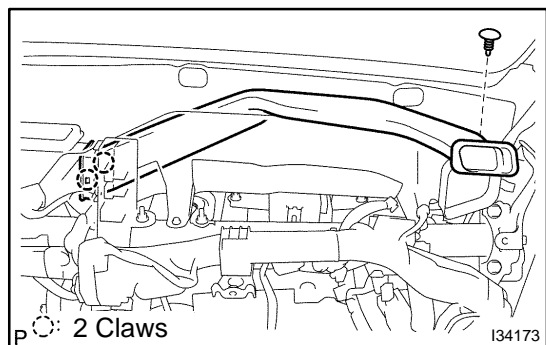
9. REMOVE SIDE DEFROSTER NOZZLE DUCT NO.1

- (a) Release the 2 claw fittings and remove the clip and side defroster nozzle duct No.1.



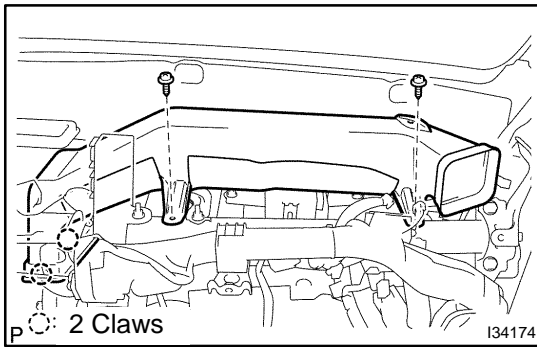
10. REMOVE SIDE DEFROSTER NOZZLE DUCT NO.2

- (a) Release the 2 claw fittings and remove the clip and the side defroster nozzle duct No.2.

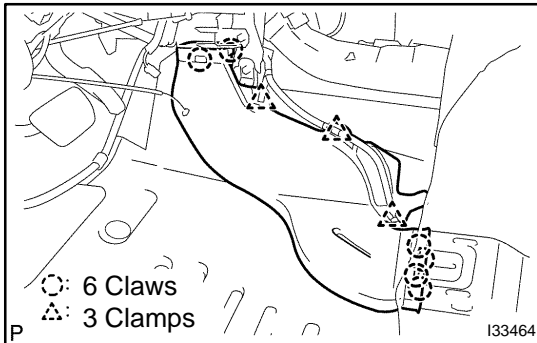


11. REMOVE HEATER TO REGISTER DUCT NO.1

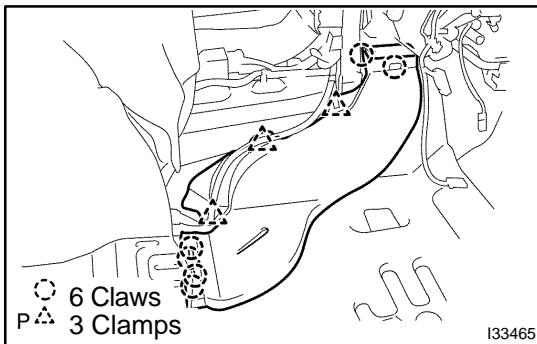
- (a) Release the 2 claw fittings and remove the screw and the heater to register duct No.1.

**12. REMOVE HEATER TO REGISTER DUCT NO.2**

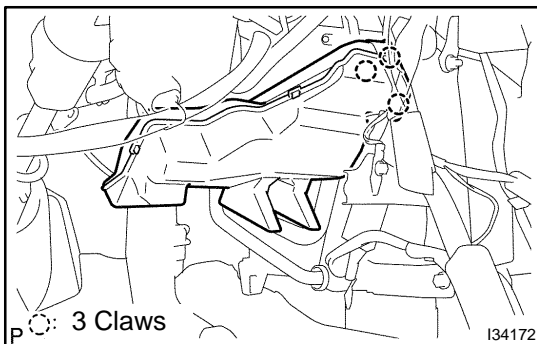
- (a) Release the 2 claw fittings and remove the 2 screws and the heater to register duct No.2.

**13. REMOVE AIR DUCT REAR NO.2**

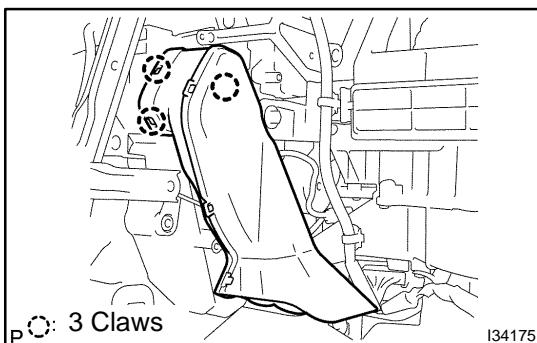
- (a) Release the 6 claw fittings and the 3 clamps, and remove the air duct rear No.2.

**14. REMOVE AIR DUCT REAR NO.1**

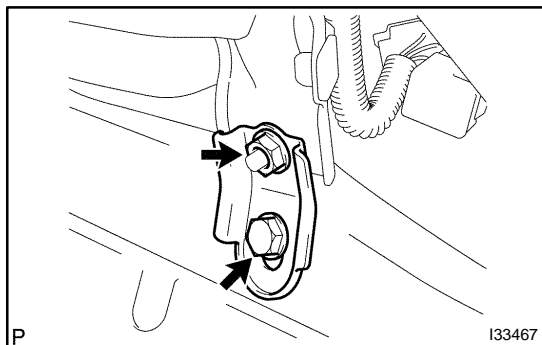
- (a) Release the 6 claw fittings and the 3 clamps, and remove the air duct rear No.1.

**15. REMOVE AIR DUCT NO.1**

- (a) Release the 3 claw fittings and remove the air duct No.1.

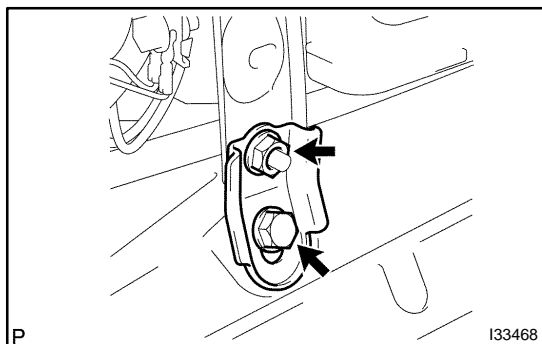
**16. REMOVE AIR DUCT NO.2**

- (a) Release the 3 claw fittings and remove the air duct No.2.

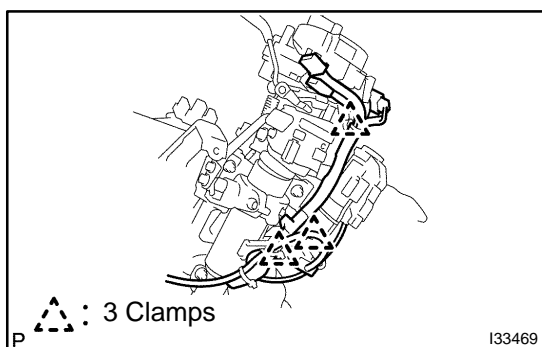


17. REMOVE INSTRUMENT PANEL BRACE MOUNTING BRACKET NO.1

- (a) Remove the bolt, the nut and the instrument panel brace mounting bracket No.1.

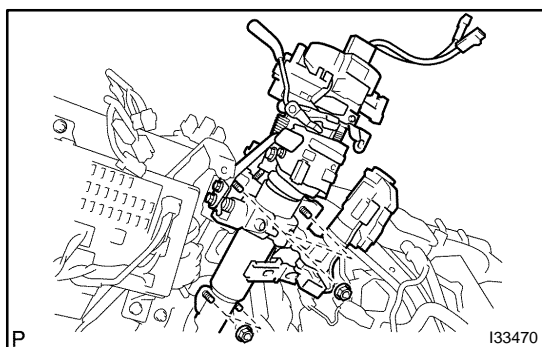


- (b) Remove the bolt, the nut and the instrument panel brace mounting bracket No.1.



18. DISCONNECT STEERING COLUMN ASSY

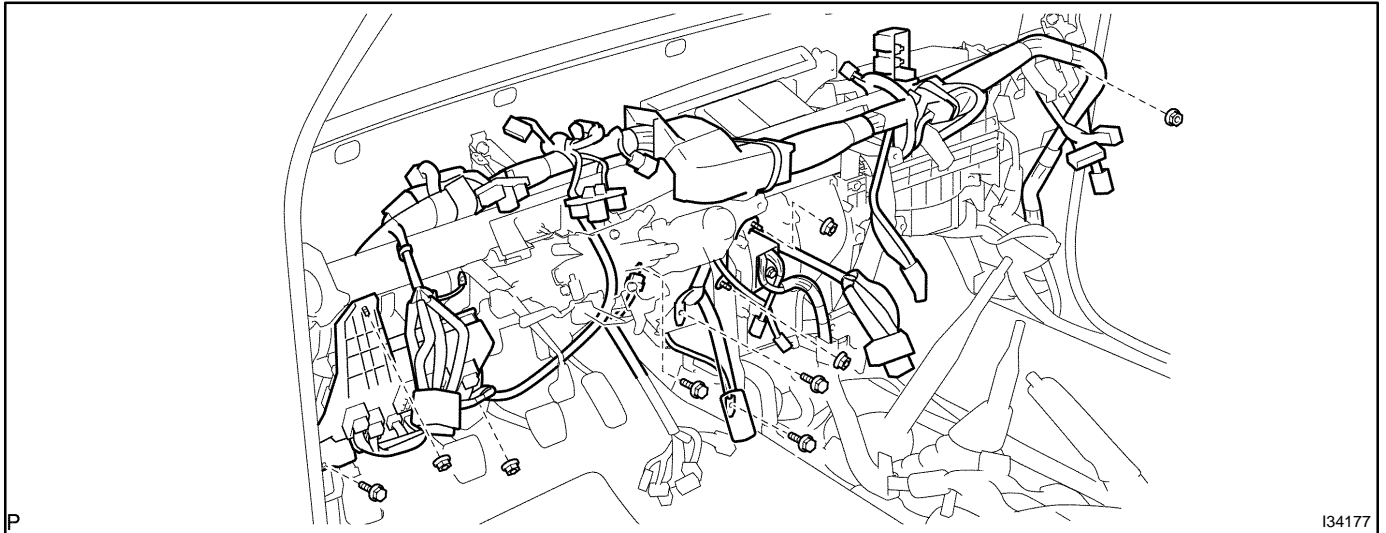
- (a) Release the 3 clamps and disconnect the connector.



- (b) Remove the 4 nuts and disconnect the steering column assy.

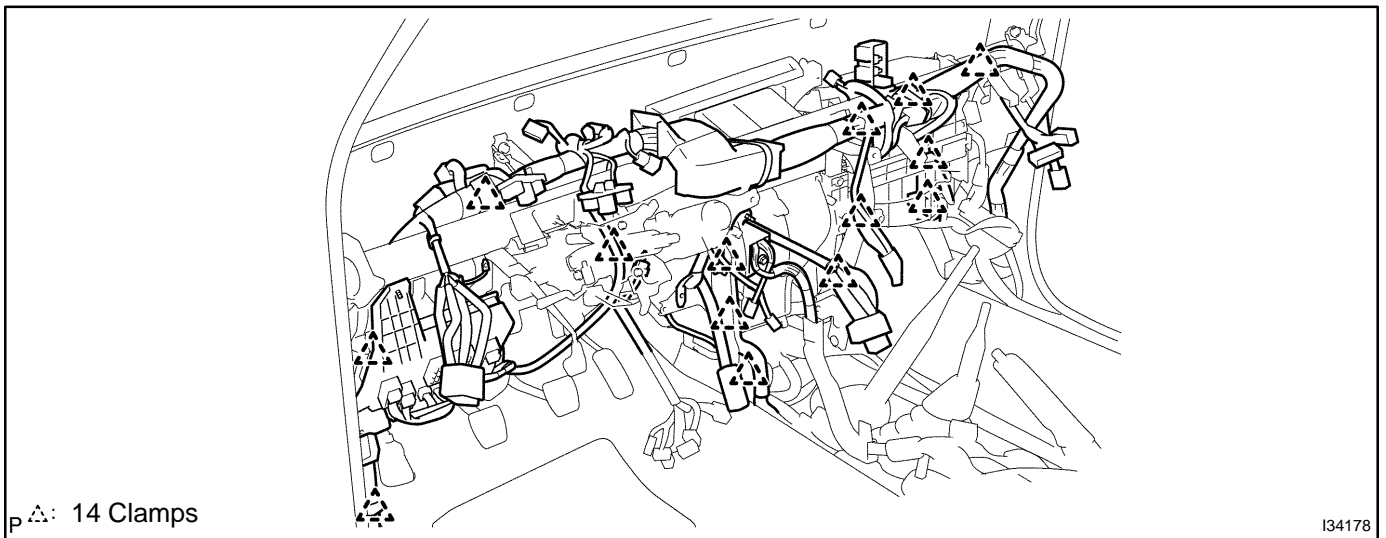
19. REMOVE INSTRUMENT PANEL REINFORCEMENT

- (a) Remove the 4 bolts and the 5 nuts.



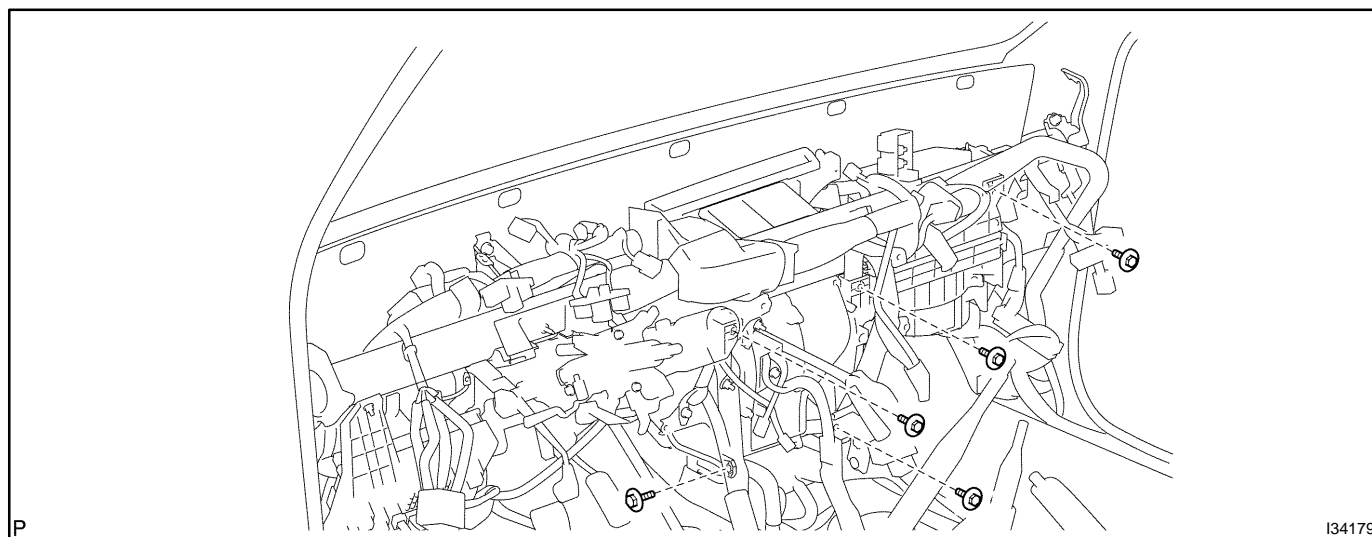
- (b) Release the 14 clamps.

- (c) Disconnect the connectors.

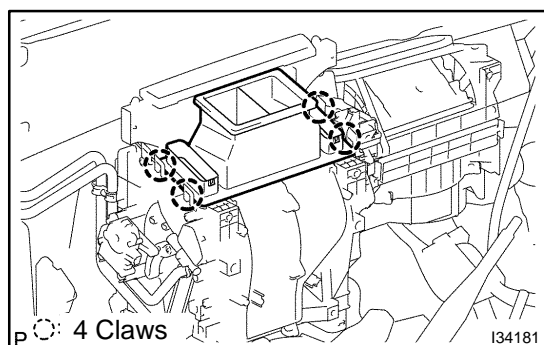
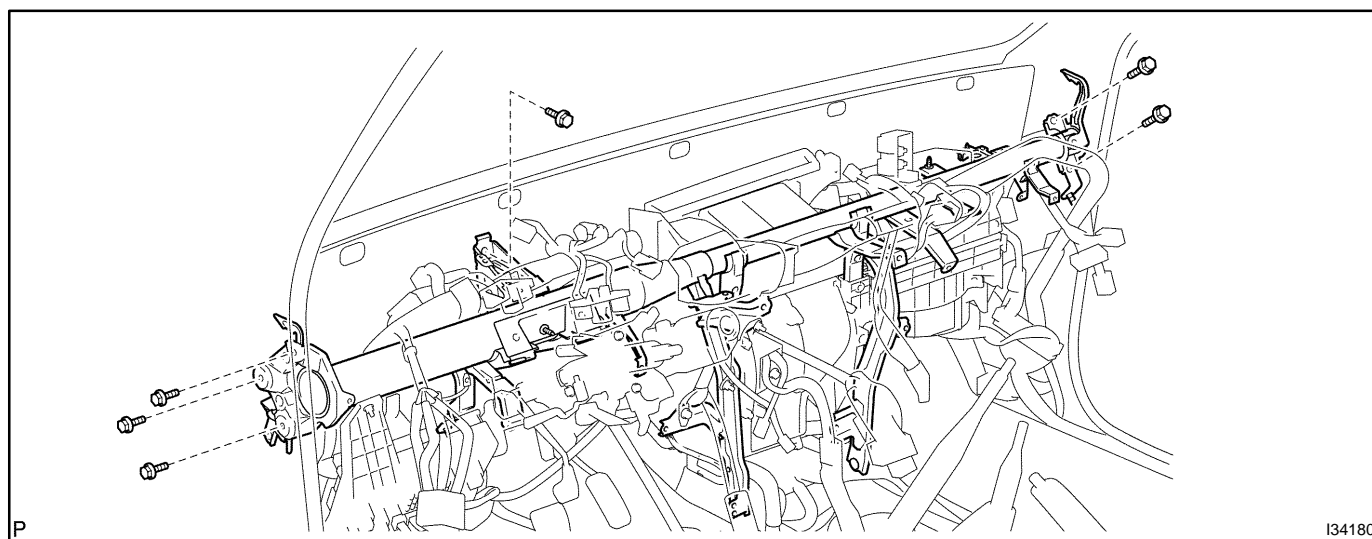


P △: 14 Clamps

- (d) Remove the 5 bolts.

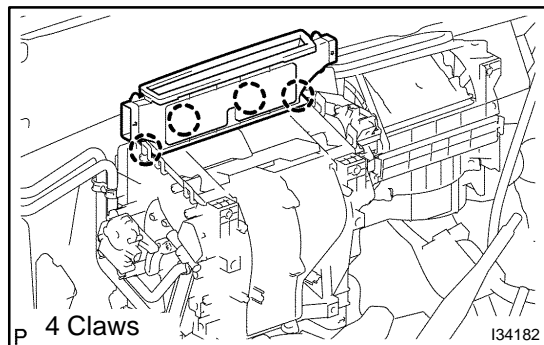


- (e) Remove the 7 bolts and the instrument panel reinforcement.

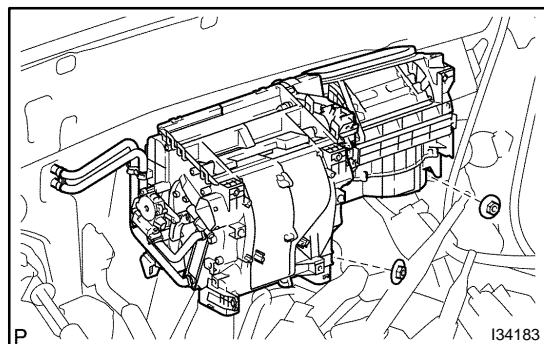


20. REMOVE HEATER TO REGISTER DUCT ASSY

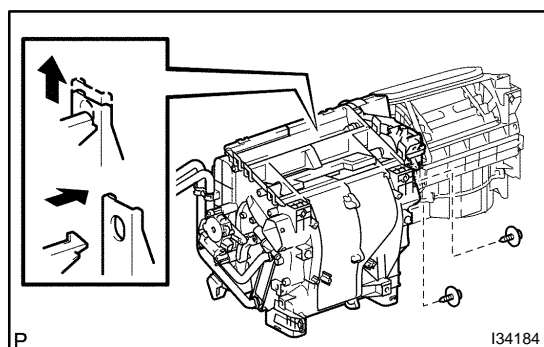
- (a) Release the 4 claw fittings and remove the heater to register duct assy.

**21. REMOVE DEFROSTER NOZZLE ASSY LOWER**

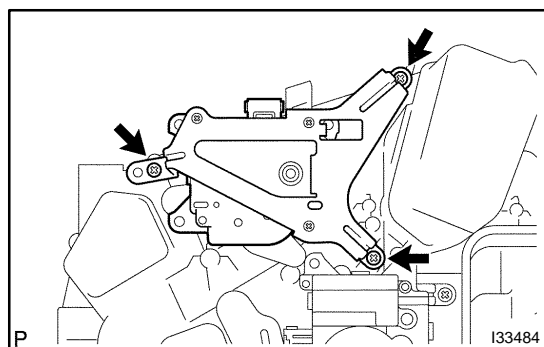
- (a) Release the 4 claw fittings and remove the defroster nozzle assy lower.

**22. REMOVE AIR CONDITIONER UNIT ASSY**

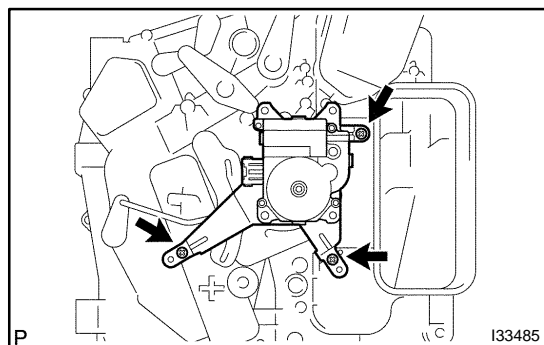
- (a) Disconnect the connectors.
(b) Remove the 2 nuts and the air conditioner unit assy.

**23. REMOVE AIR CONDITIONING RADIATOR ASSY**

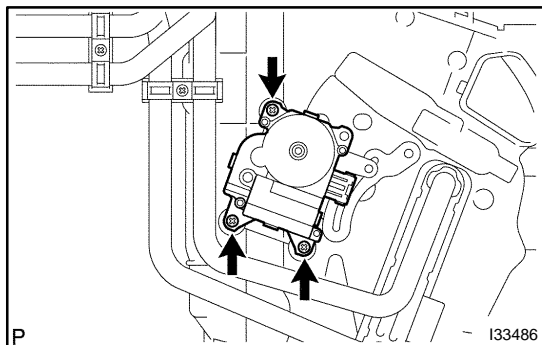
- (a) Remove the 2 screws and the air conditioning radiator assy.

**24. REMOVE MODE DAMPER SERVO SUB-ASSY**

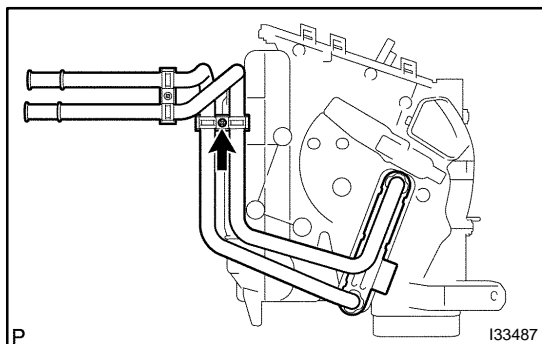
- (a) Remove the 3 screws and the mode damper servo sub-assy.

**25. REMOVE AIRMIX DAMPER SERVO SUB-ASSY**

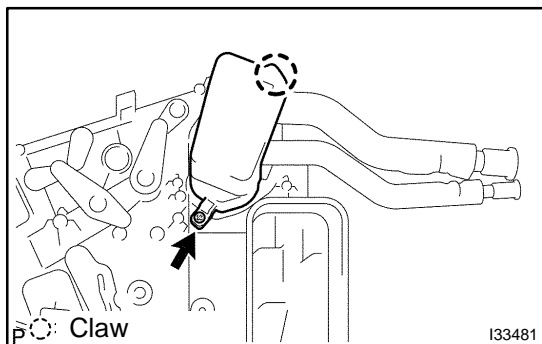
- (a) Remove the 3 screws and the airmix damper servo sub-assy.

**26. REMOVE BLOWER DAMPER SERVO SUB-ASSY**

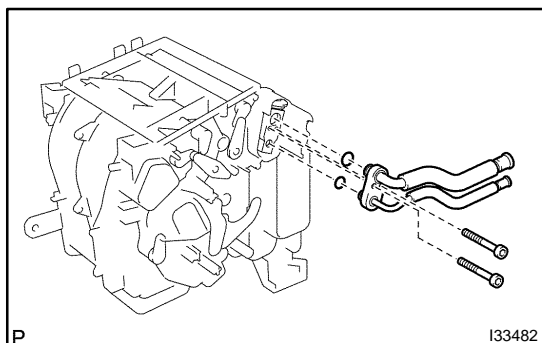
- (a) Remove the 3 screws and the blower damper servo sub-assy.

**27. REMOVE HEATER RADIATOR UNIT SUB-ASSY**

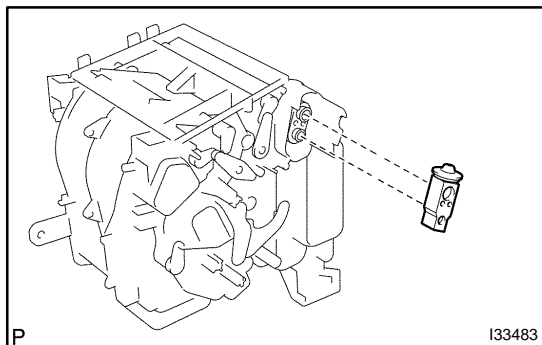
- (a) Remove the screw, the clamp and the heater radiator unit sub-assy.

28. REMOVE COOLER UNIT DRAIN HOSE NO.1**29. REMOVE COVER PLATE**

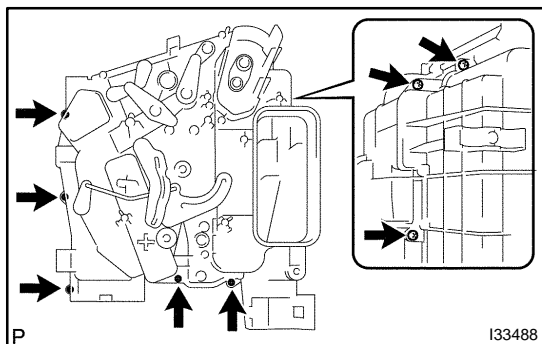
- (a) Remove the screw.
(b) Release the claw fitting and remove the cover.

**30. REMOVE AIR CONDITIONING TUBE & ACCESSORY ASSY**

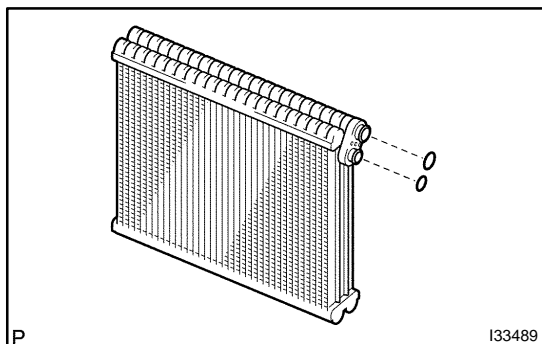
- (a) Using a hexagon wrench 4.0 mm (0.15 in.), remove the 2 hexagon bolts and the air conditioning tube assy.
(b) Remove the 2 O-rings from the air conditioning tube assy.

**31. REMOVE COOLER EXPANSION VALVE**

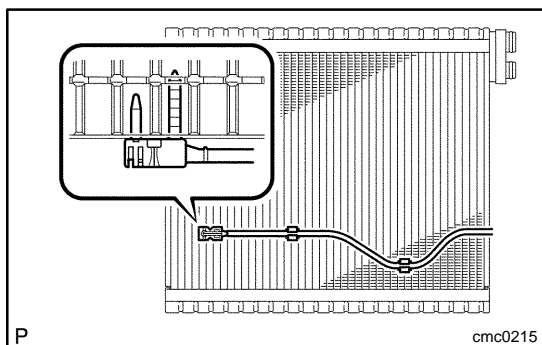
- (a) Remove the cooler expansion valve from the cooler evaporator sub-assy No.1.

**32. REMOVE COOLER EVAPORATOR SUB-ASSY NO.1**

- (a) Remove the 8 screws and separate the heater case.
(b) Remove the cooler evaporator sub-assy No.1.

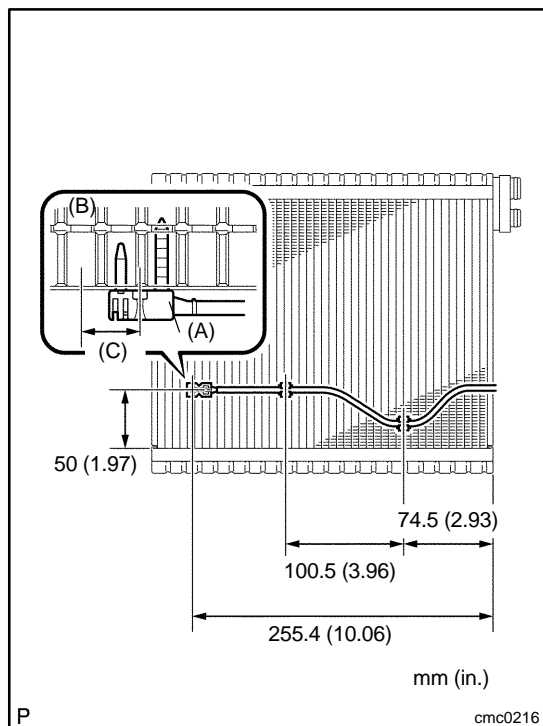


- (c) Remove the 2 O-rings from the cooler evaporator sub-assy No.1.

**33. REMOVE COOLER THERMISTOR NO.1**

- (a) Remove the cooler thermistor No.1 from the cooler evaporator sub-assy No.1.

34. REMOVE COVER PLATE

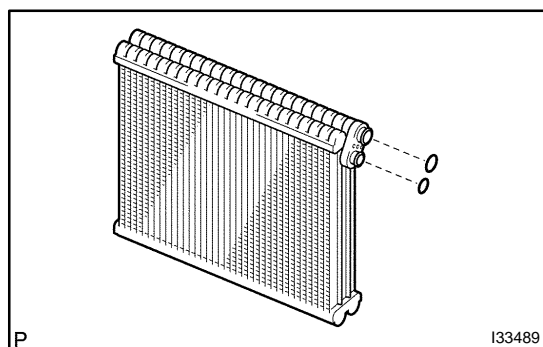


35. INSTALL COOLER THERMISTOR NO.1

- Install the cooler thermistor No.1 to the evaporator as shown in the illustration.
- Check that the thermistor sticks to the evaporator surface as shown in the illustration (A: Thermistor, B: Evaporator).

NOTICE:

If reusing the evaporator, **DO NOT** insert the thermistor to the position that it had been inserted before. Insert it to between the position C shown in the illustration.

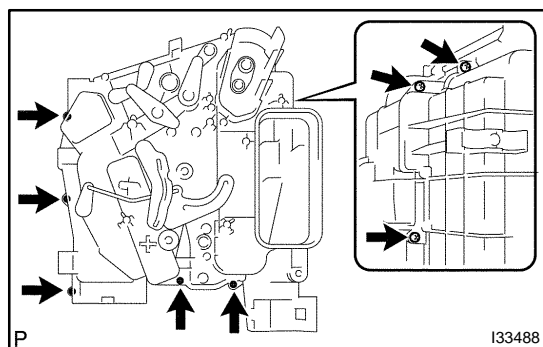


36. INSTALL COOLER EVAPORATOR SUB-ASSY NO.1

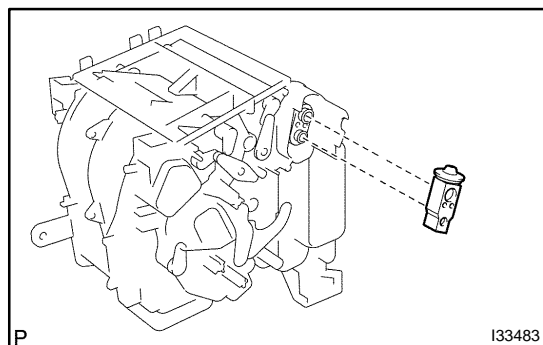
- Sufficiently apply compressor oil to 2 new O-rings and the fitting surface of the cooler expansion valve.

Compressor oil: ND-OIL 8 or equivalent

- Install the 2 O-rings on the cooler evaporator sub-assy No.1.

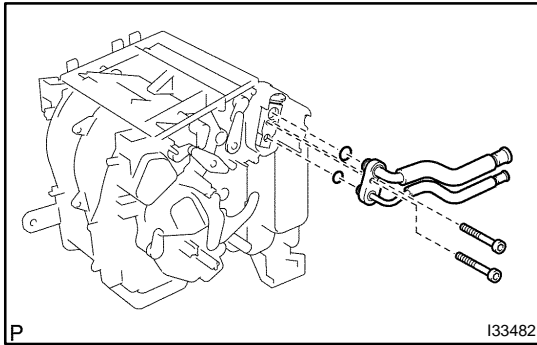


- Install the cooler evaporator sub-assy No.1 on the heater case.
- Install the heater case with the 8 screws.



37. INSTALL COOLER EXPANSION VALVE

- Install the cooler expansion valve to the cooler evaporator sub-assy No.1.



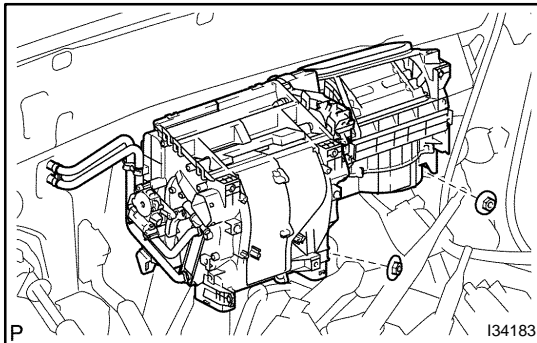
38. INSTALL AIR CONDITIONING TUBE & ACCESSORY ASSY

- (a) Sufficiently apply compressor oil on 2 new O-rings and the fitting surface of the air conditioning tube assy.

Compressor oil: ND-OIL 8 or equivalent

- (b) Install the 2 O-rings on the air conditioning tube assy.
 (c) Using a hexagon wrench 4.0 mm (0.15 in.), install the air conditioning tube assy with the 2 hexagon bolts.

Torque: 3.5 N·m (35 kgf·cm, 30 in.·lbf)



39. INSTALL AIR CONDITIONER UNIT ASSY

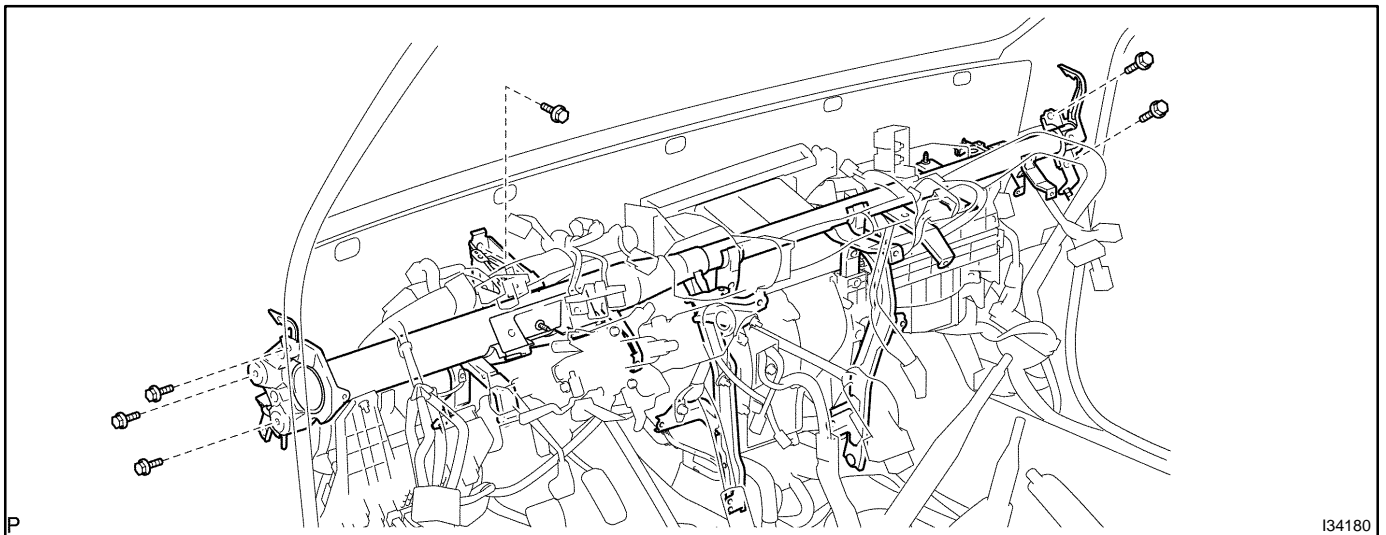
- (a) Install the air conditioner unit assy with the 2 nuts.

Torque: 5.4 N·m (55 kgf·cm, 48 in.·lbf)

- (b) Connect the connectors.

40. INSTALL INSTRUMENT PANEL REINFORCEMENT

- (a) Install the instrument panel reinforcement with the 7 bolts.

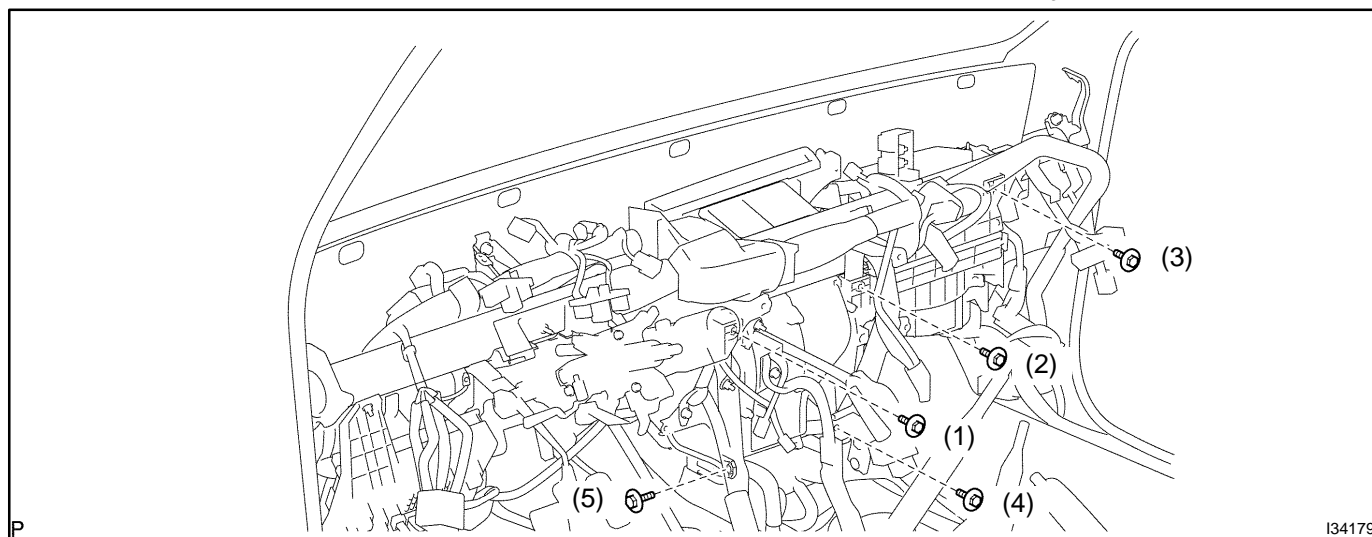


(b) Install the 5 bolts.

Torque: 9.8 N·m (100 kgf·cm, 87 in.-lbf)

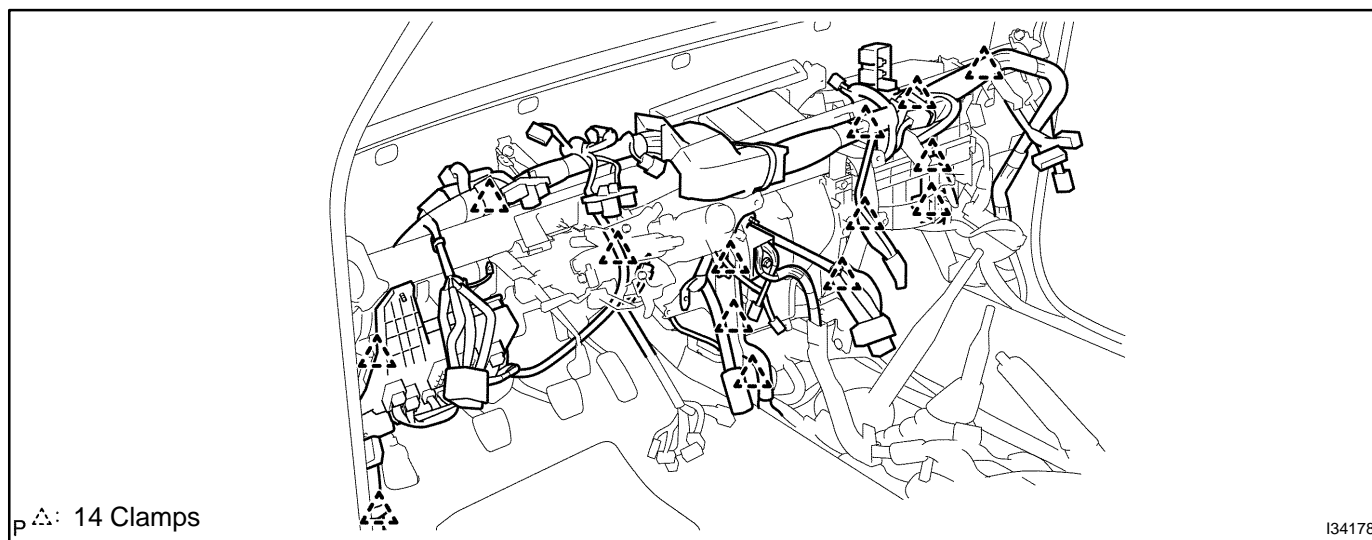
NOTICE:

Tighten the bolts in the order shown in the illustration to install the air conditioner unit assy.

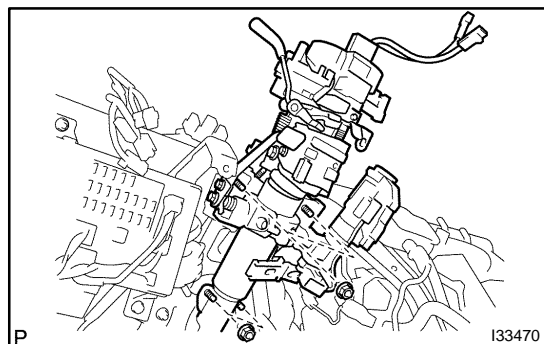
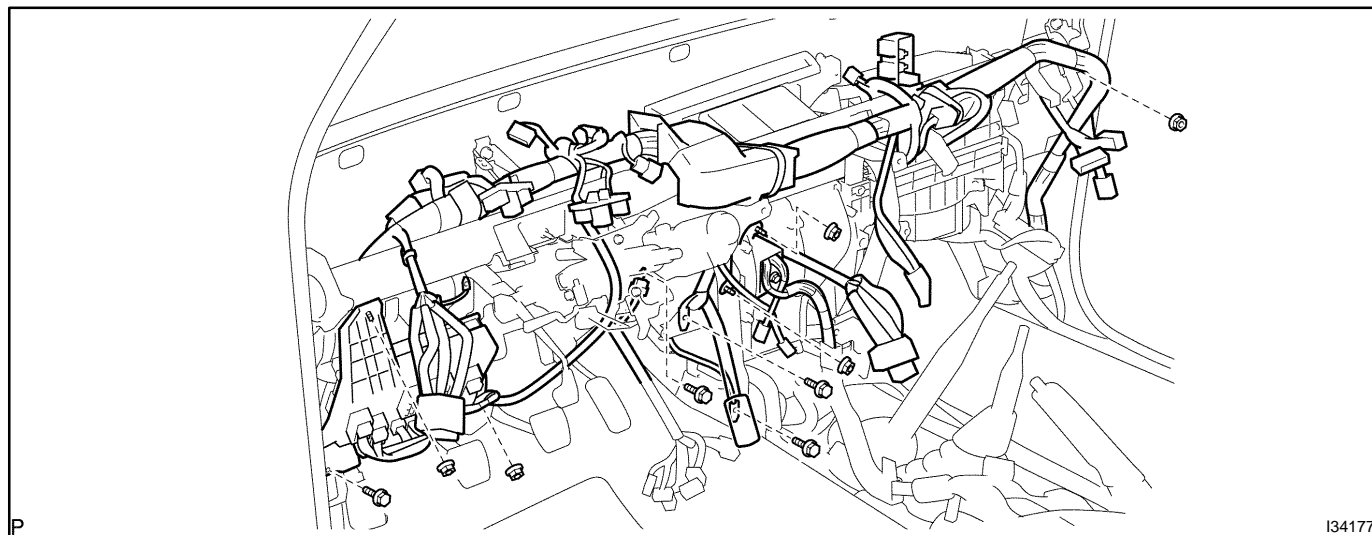


(c) Install the 14 clamps.

(d) Connect the connectors.

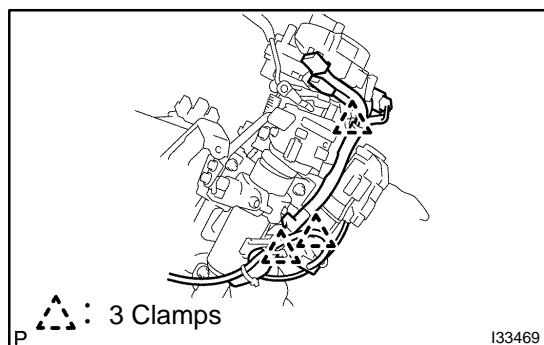


- (e) Install the 4 bolts and the 5 nuts.
Torque: 8.3 N·m (85 kgf·cm, 73 in.-lbf)



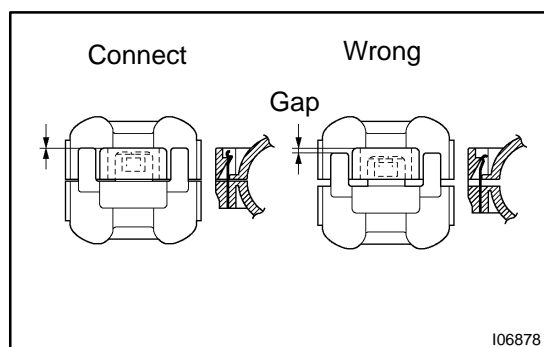
41. INSTALL STEERING COLUMN ASSY

- (a) Install the steering column assy with the 4 nuts.
Torque: 26 N·m (265 kgf·cm, 19 ft.-lbf)



- (b) Install the 3 clamps and connect the connectors.

42. INSTALL INSTRUMENT PANEL SAFETY PAD SUB-ASSY W/DEFROSTER NOZZLE DUCT
(See page [71-13](#))



43. REMOVE COOLER REFRIGERANT LIQUID PIPE C (W/O REAR COOLER)

- (a) Lubricate a new O-ring with compressor oil and install it on the hose.

Compressor oil: ND-OIL 8 or equivalent

- (b) Install the cooler refrigerant liquid pipe C and the piping clamp.

HINT:

After the connection, check the claw fitting of the piping clamp.

44. REMOVE COOLER REFRIGERANT LIQUID PIPE A (W/ REAR COOLER)

HINT:

Connection of the cooler refrigerant liquid pipe A is the same way as the cooler refrigerant liquid pipe C.

45. REMOVE PIPE COOLER REFRIGERANT SUCTION A (W/ REAR COOLER)

- (a) Lubricate a new O-ring with compressor oil and install it to the pipe.

Compressor oil: ND-OIL 8 or equivalent

- (b) Install the pipe cooler refrigerant suction A and the piping clamp.

HINT:

After the connection, check the claw fitting of the piping clamp.

46. REMOVE COOLER REFRIGERANT SUCTION PIPE C (W/O REAR COOLER)

HINT:

Connection of the cooler refrigerant suction pipe C is the same way as the pipe cooler refrigerant suction A.

47. ADD ENGINE COOLANT (See page 16-5)

48. CHARGE REFRIGERANT (See page 55-8)

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.)

Dual A/C: 800 ± 30 g (28.21 ± 1.06 oz.)

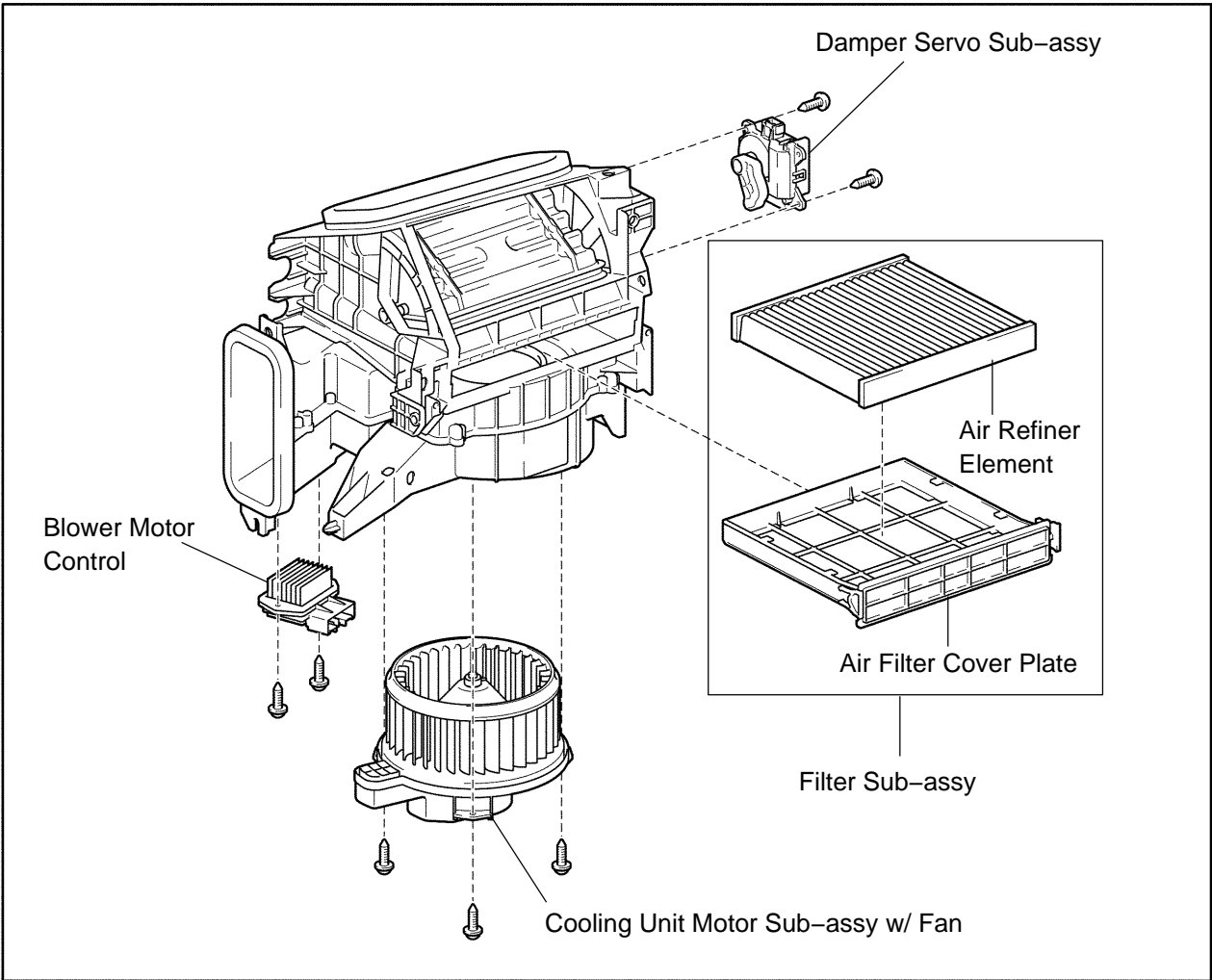
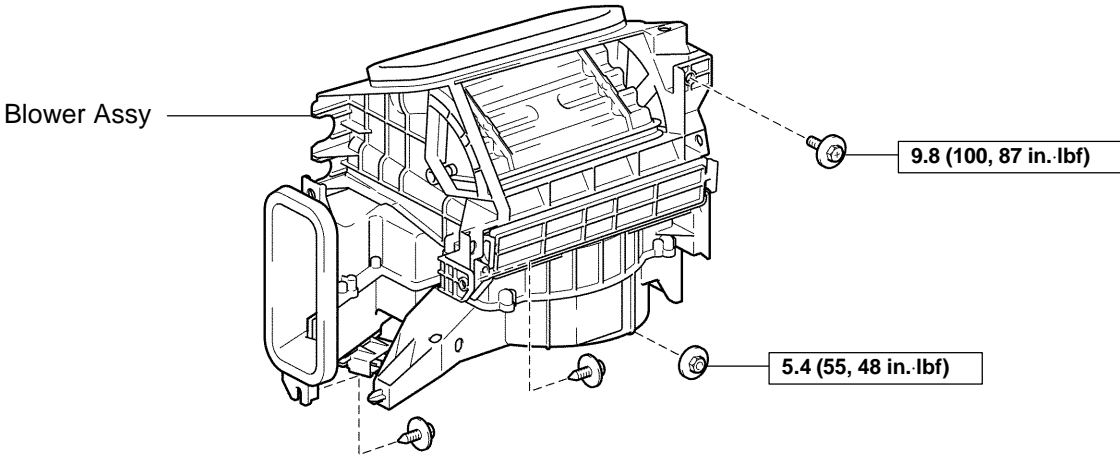
49. WARM UP ENGINE (See page 55-8)

50. CHECK FOR ENGINE COOLANT LEAKS (See page 16-1)

51. INSPECT LEAKAGE OF REFRIGERANT (See page 55-8)

BLOWER ASSY COMPONENTS

550UG-03



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

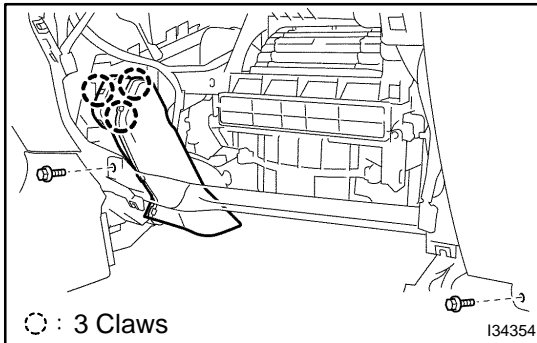
135140

OVERHAUL

HINT:

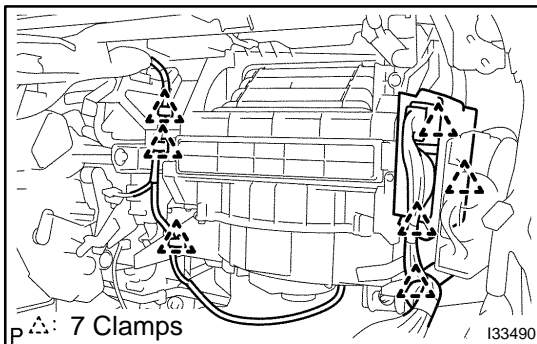
COMPONENTS: See page 55-29

1. REMOVE FRONT DOOR SCUFF PLATE RH (See page 71-13)
2. REMOVE COWL SIDE TRIM BOARD RH (See page 71-13)
3. REMOVE INSTRUMENT PANEL UNDER COVER NO.2 (See page 71-13)
4. REMOVE GLOVE COMPARTMENT DOOR SUB-ASSY (See page 71-13)
5. REMOVE INSTRUMENT PANEL ORNAMENT (See page 71-13)



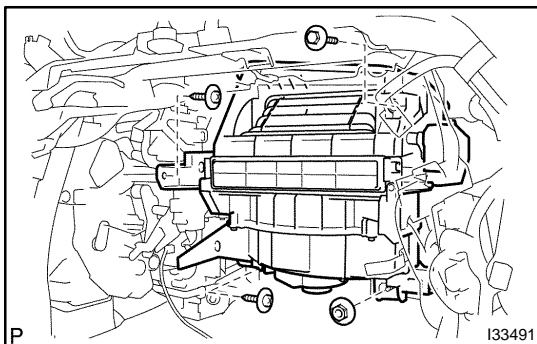
6. REMOVE AIR DUCT NO.2

- (a) Remove the 2 bolts and disconnect the Instrument panel safety pad sub-assy.
- (b) Release the 3 claw fittings and remove the air duct No.2.

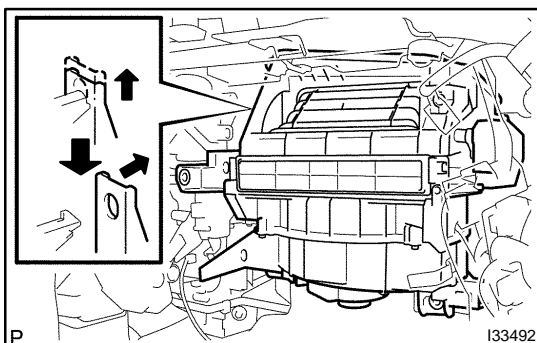


7. REMOVE BLOWER ASSY

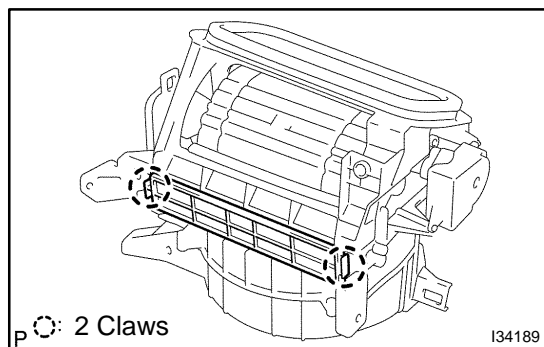
- (a) Release the 7 clamps and disconnect the connectors.



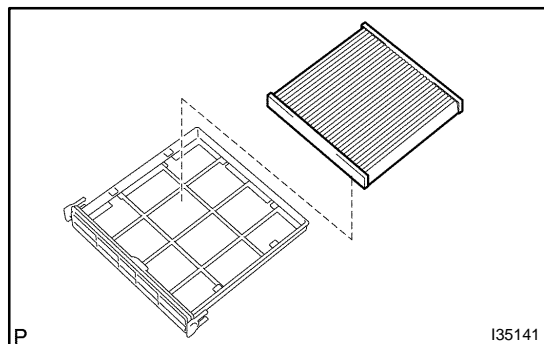
- (b) Remove the bolt, the 2 screws and the nut.



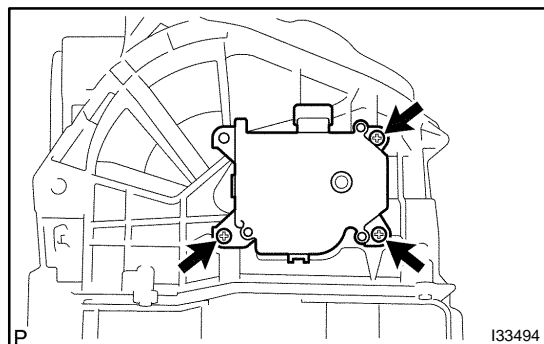
- (c) Release the claw fitting and remove the blower assy.

**8. REMOVE FILTER SUB-ASSY**

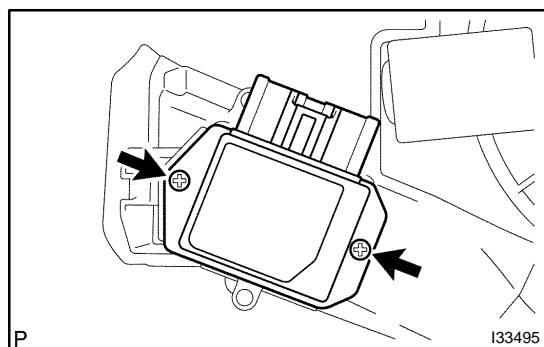
- (a) Release the 2 claw fittings and remove the air filter sub-assy.

**9. REMOVE CLEAN AIR FILTER**

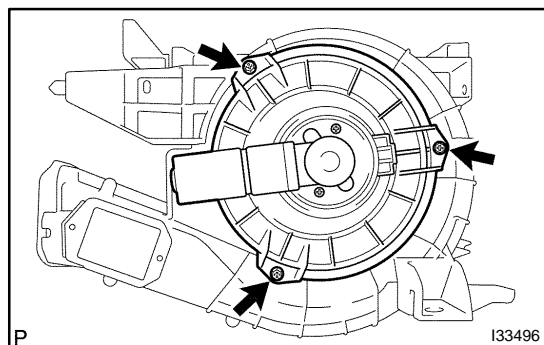
- (a) Remove the air refiner element from the air filter cover plate.

**10. REMOVE DAMPER SERVO SUB-ASSY**

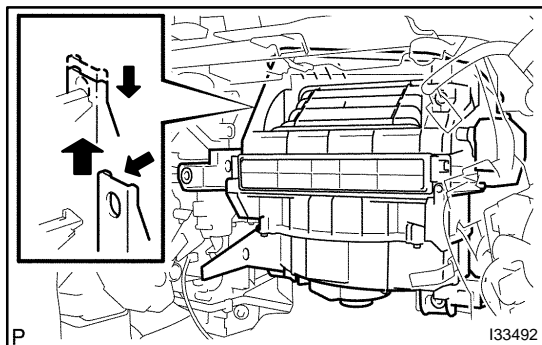
- (a) Remove the 3 screws and the blower damper servo sub-assy.

**11. REMOVE BLOWER MOTOR CONTROL**

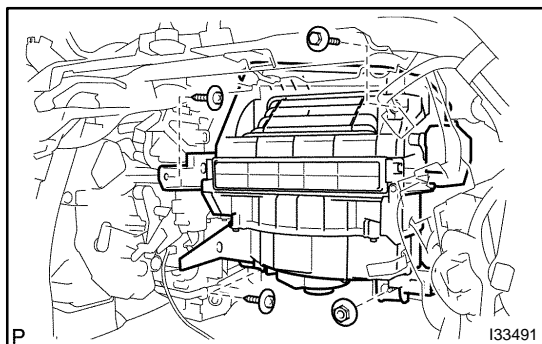
- (a) Remove the 2 screws and the blower motor control.

**12. REMOVE COOLING UNIT MOTOR SUB-ASSY W/FAN**

- (a) Remove the 3 screws and the cooling unit motor sub-assy w/ fan.

**13. INSTALL BLOWER ASSY**

- (a) Install the blower assy with the claw fitting.

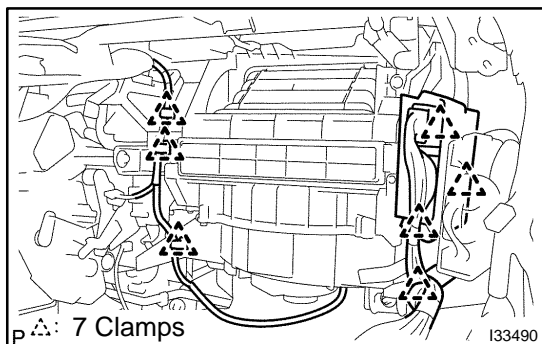


- (b) Install the bolt, the 2 screws and the nut.

Torque:

9.8 N·m (100 kgf·cm, 87 in·lbf) (Bolt)

5.4 N·m (55 kgf·cm, 48 in·lbf) (Nut)

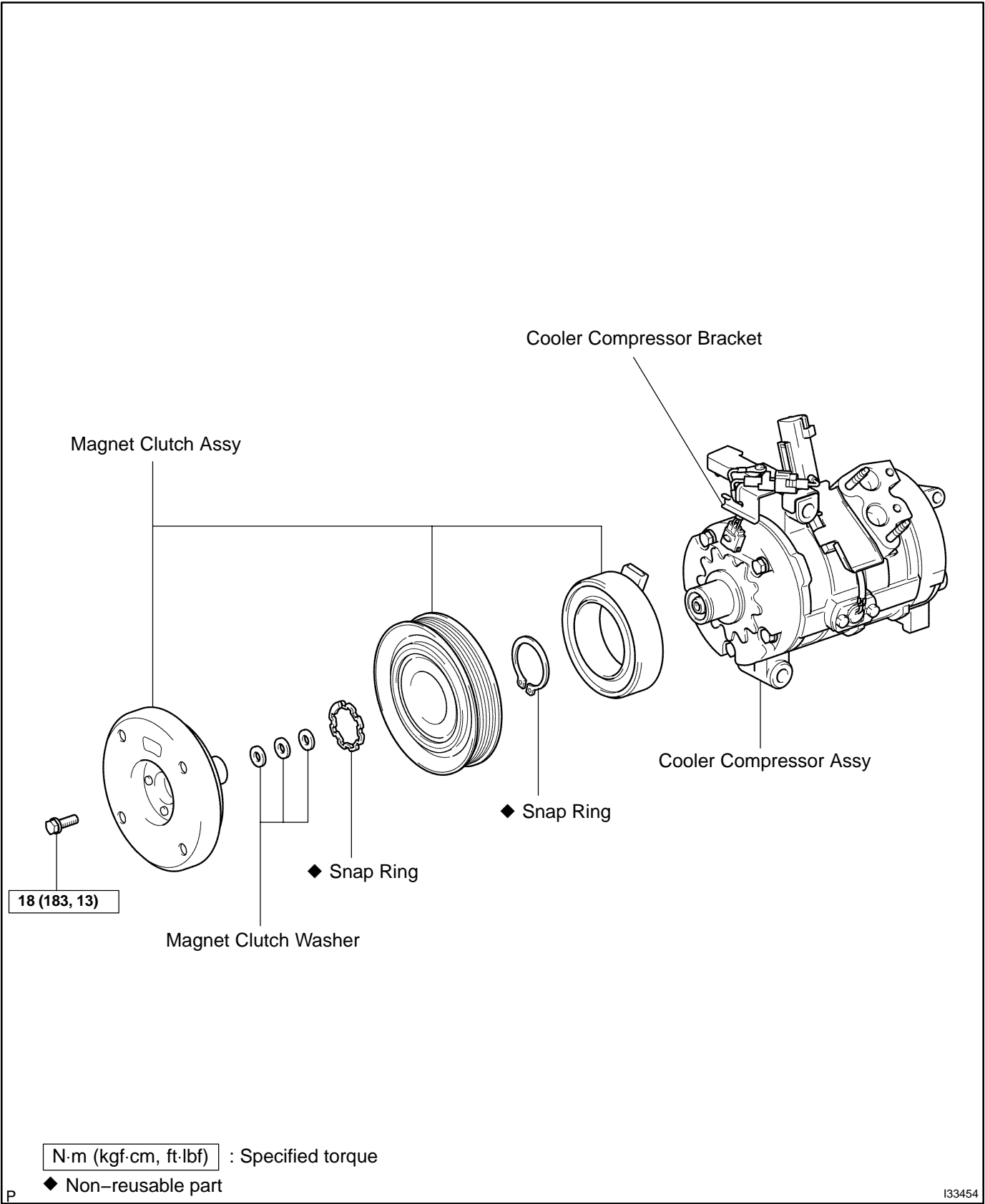


- (c) Install the 7 clamps and connect the connectors.

COOLER COMPRESSOR ASSY (2UZ-FE)

COMPONENTS

550UI-02



REPLACEMENT

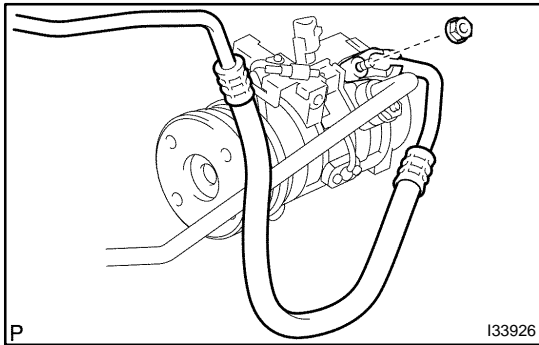
HINT:

COMPONENTS: See page 55-33

1. DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM (See page 55-8)

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

2. REMOVE FAN AND GENERATOR V BELT (See page 14-5)



3. DISCONNECT DISCHARGE HOSE SUB-ASSY (W/O REAR COOLER)

- Remove the nut and disconnect the discharge hose sub-assy from the compressor and magnetic clutch.
- Remove the O-ring from the discharge hose sub-assy.

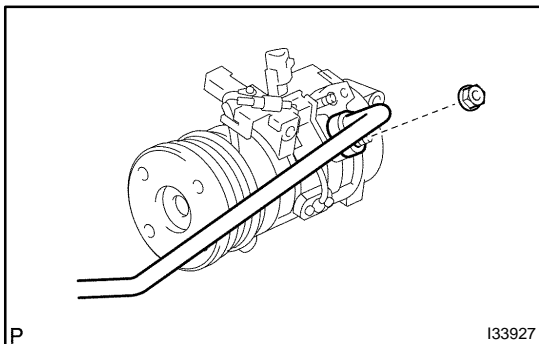
NOTICE:

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

4. DISCONNECT COOLER REFRIGERANT DISCHARGE HOSE NO.1 (W/ REAR COOLER)

HINT:

Disconnection of the cooler refrigerant discharge hose No.1 is the same way as the discharge hose sub-assy.



5. DISCONNECT SUCTION HOSE SUB-ASSY (W/O REAR COOLER)

- Remove the nut and disconnect the suction hose sub-assy from the compressor and magnetic clutch.
- Remove the O-ring from the suction hose sub-assy.

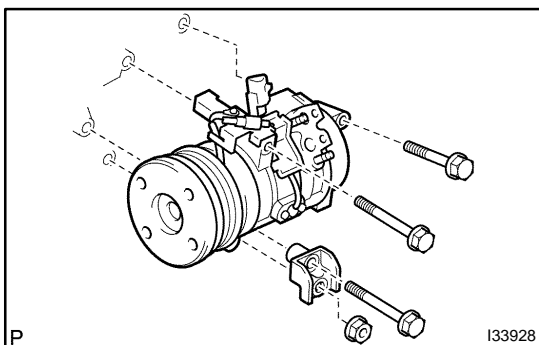
NOTICE:

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

6. DISCONNECT COOLER REFRIGERANT SUCTION HOSE (W/ REAR COOLER)

HINT:

Disconnection of the cooler refrigerant suction hose is the same way as the suction hose sub-assy.

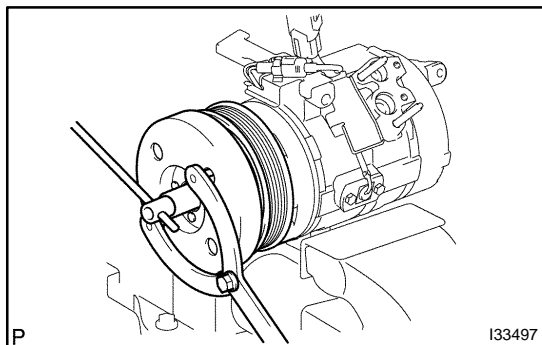


7. REMOVE COMPRESSOR AND MAGNETIC CLUTCH

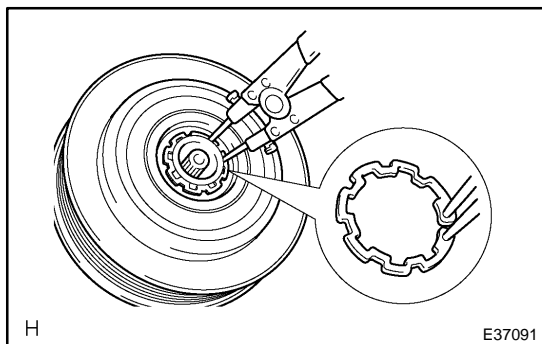
- Disconnect the connector.
- Remove the nut.
- Remove the 3 bolts, the stay, and the compressor and magnetic clutch.

8. REMOVE MAGNET CLUTCH ASSY

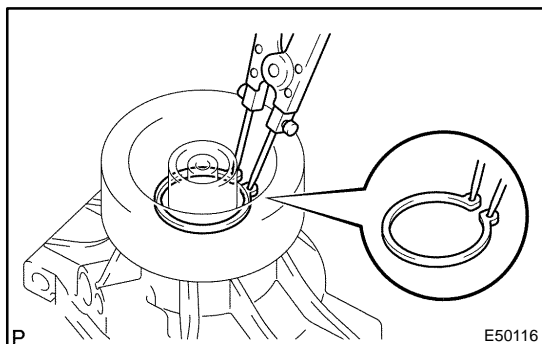
- Place the compressor and magnetic clutch in a vise.



- (b) Using SST, remove the bolt, the magnet clutch hub and the magnet clutch washer.
SST 09960-10010 (09962-01000, 09963-00500)



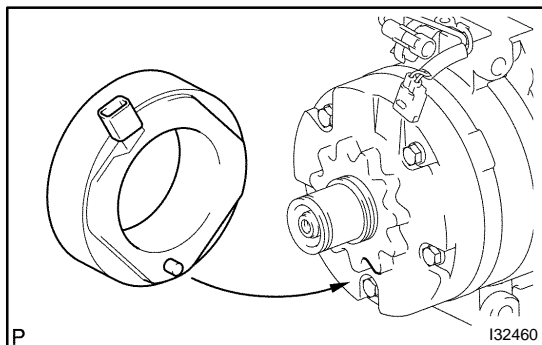
- (c) Using a snap ring expander, remove the snap ring and the magnet clutch rotor.
(d) Remove the screw and disconnect the connector.



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

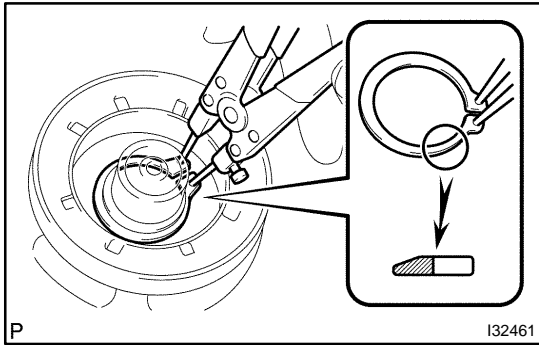
9. REMOVE COOLER COMPRESSOR BRACKET

10. REMOVE COOLER COMPRESSOR ASSY

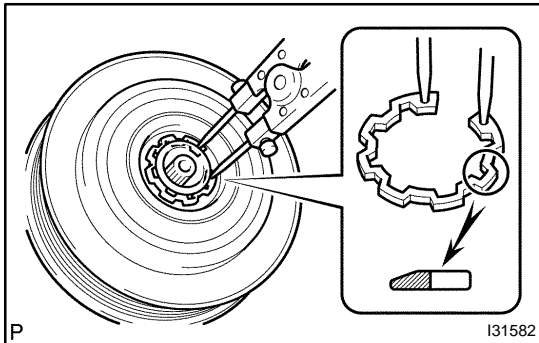


11. INSTALL MAGNET CLUTCH ASSY

- (a) Fit the parts as shown in the illustration, and install the magnet clutch starter.



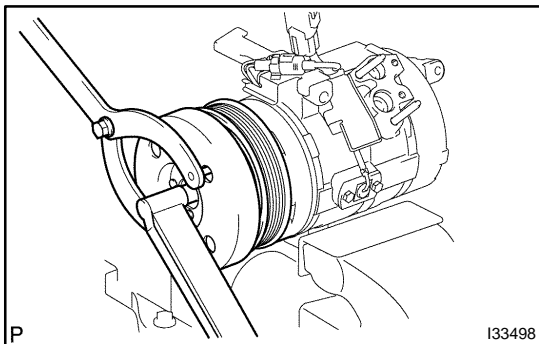
- (b) Using a snap ring expander, install a new snap ring with the chamfered side facing up.
- (c) Install the screw and connect the connector.



- (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:

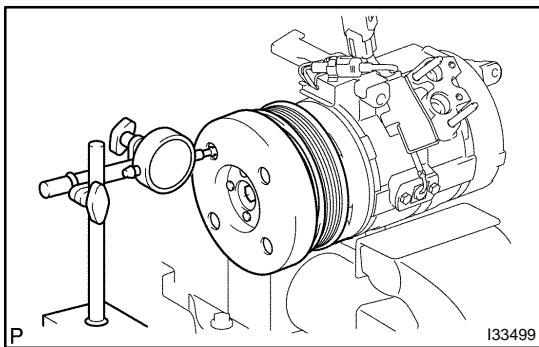
Do not change the combination of the magnet clutch washers used before disassembly.



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

SST 09960-10010 (09962-01000, 09963-00500)

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

**12. INSPECT MAGNETIC CLUTCH CLEARANCE**

- (a) Set the dial indicator to the magnet clutch hub.
- (b) Connect the battery positive lead to the 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.

13. INSPECT COMPRESSOR OIL

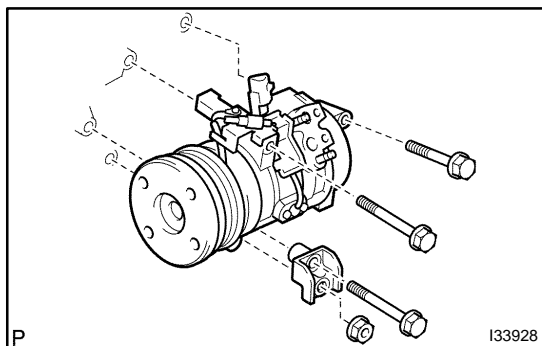
- (a) When replacing the compressor and magnetic clutch with a new one, after gradually removing the refrigerant gas from the service valve, drain the following amount of oil from the new compressor and magnetic clutch before installation.

Standard:

(Oil capacity inside 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)

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 for compressor oil.

**14. INSTALL COMPRESSOR AND MAGNETIC CLUTCH**

- (a) Install the compressor and magnetic clutch and the stay with the 3 bolts.

Torque: 46 N·m (469 kgf·cm, 34 ft·lbf)

- (b) Install the nut.

Torque: 24 N·m (245 kgf·cm, 18 ft·lbf)

- (c) Connect the connector.

15. INSTALL SUCTION HOSE SUB-ASSY (W/O REAR COOLER)

- (a) Remove the attached vinyl tape from the hose.

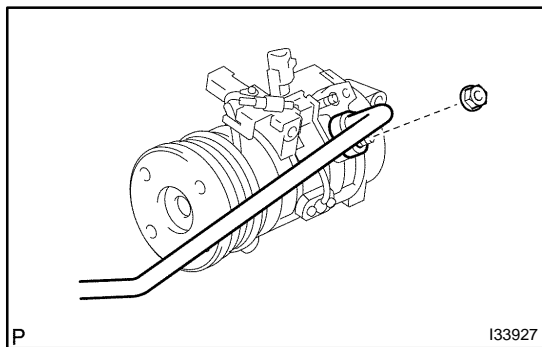
- (b) Sufficiently apply compressor oil to a new O-ring and the fitting surface of the compressor and magnetic clutch.

Compressor oil: ND-OIL 8 or equivalent

- (c) Install the O-ring on the suction hose sub-assy.

- (d) Install the suction hose sub-assy on the compressor and magnetic clutch with the nut.

Torque: 9.8 N·m (100 kgf·cm, 87 in·lbf)

**16. INSTALL COOLER REFRIGERANT SUCTION HOSE (W/ REAR COOLER)****HINT:**

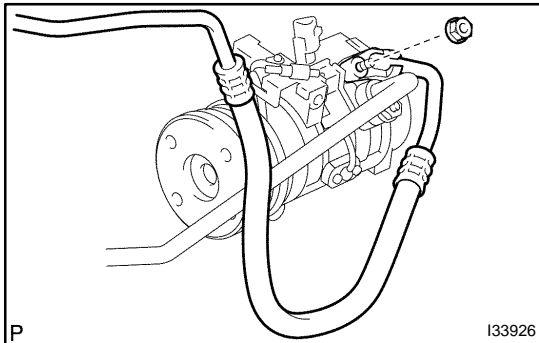
Connection of the cooler refrigerant suction hose is the same way as the suction hose sub-assy.

17. INSTALL DISCHARGE HOSE SUB-ASSY (W/O REAR COOLER)

- (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)

18. INSTALL COOLER REFRIGERANT DISCHARGE HOSE NO.1 (W/ REAR COOLER)

HINT:

Connection of the cooler refrigerant discharge hose No.1 is the same way as the discharge hose sub-assy.

19. INSPECT V-RIBBED BELT TENSIONER ASSY (See page 14-5)**20. INSTALL FAN AND GENERATOR V BELT (See page 14-5)****21. CHARGE REFRIGERANT (See page 55-8)**

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.)

Dual A/C: 800 ± 30 g (28.21 ± 1.06 oz.)

22. WARM UP ENGINE (See page 55-8)**23. INSPECT LEAKAGE OF REFRIGERANT (See page 55-8)**

COOLER CONDENSER CORE

ON-VEHICLE INSPECTION

550UK-02

1. INSPECT COOLER CONDENSER ASSY

- (a) If the fin of the cooler condenser assy is dirty, clean it with water and dry it with compressed air.

NOTICE:

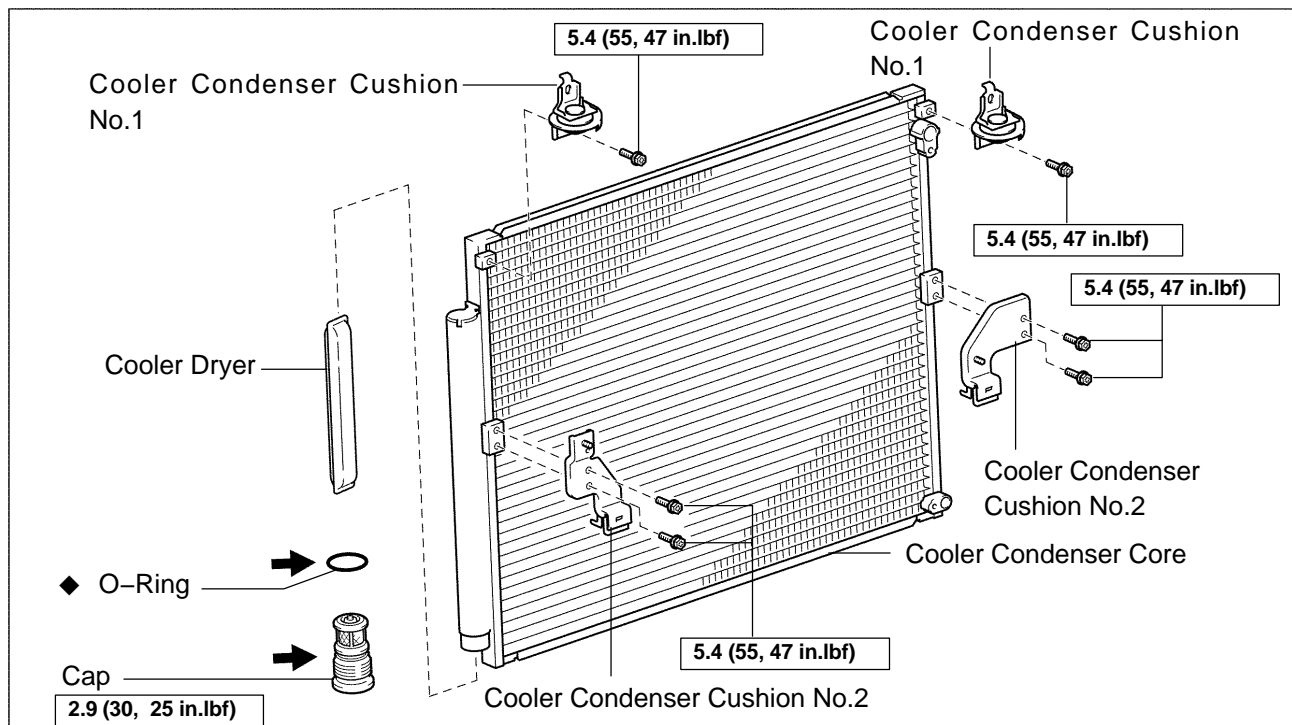
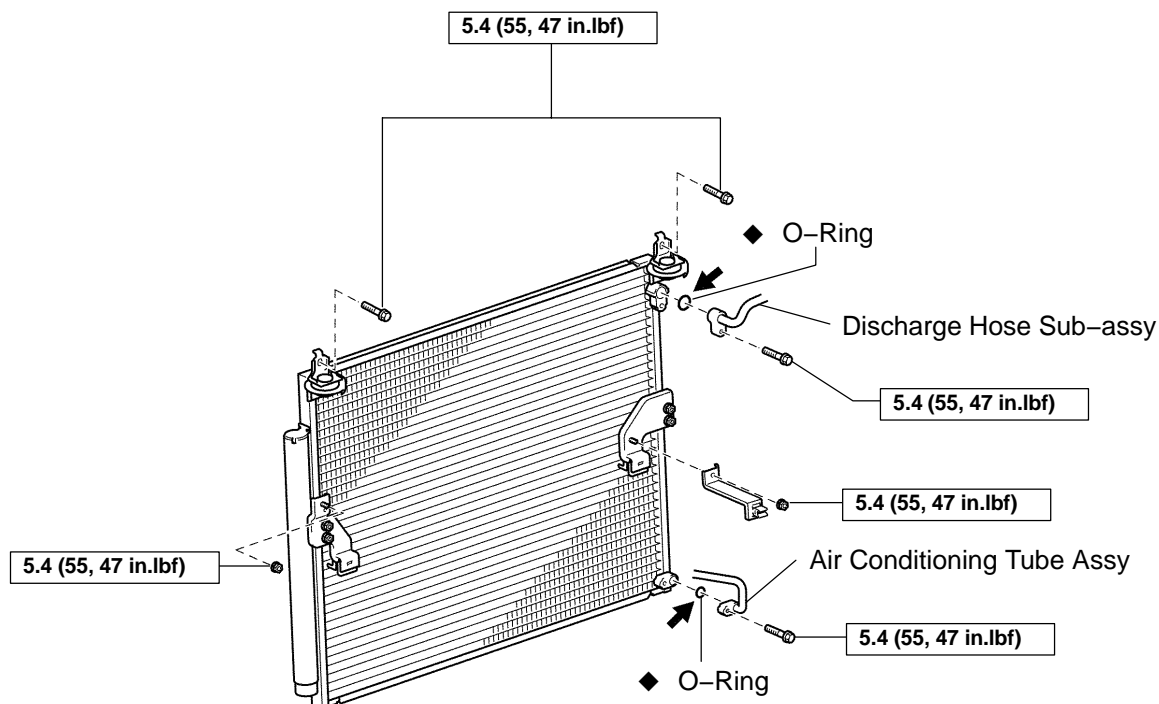
Do not damage the fin of the condenser assy.

- (b) If the fin of the condenser assy is bent, make it straight using a screwdriver or pliers.

2. INSPECT CONDENSER FOR LEAKAGE OF REFRIGERANT

- (a) Using a halogen leak detector, check the pipe joints for gas leakage.
- (b) If gas leakage is detected in a joint, check the torque of the joint.

COMPONENTS



P N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

← Compressor oil ND-OIL 8 or equivalent

133455

Author :

Date :

3407

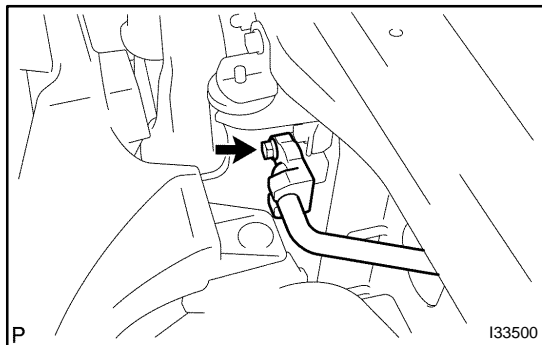
OVERHAUL

HINT:

COMPONENTS: See page 55-40

1. DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM (See page 55-8)

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



2. DISCONNECT DISCHARGE HOSE SUB-ASSY (W/O REAR COOLER)

- (a) Remove the bolt and disconnect the discharge hose sub-assy from the cooler condenser core.
- (b) Remove the O-ring from the discharge hose sub-assy.

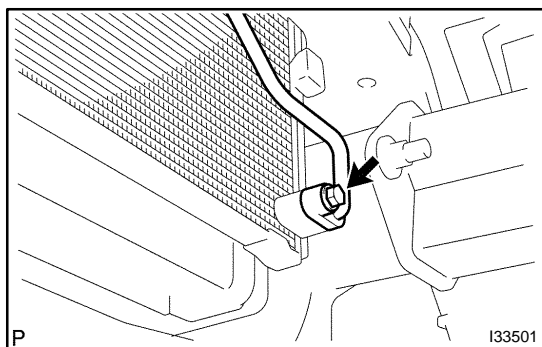
NOTICE:

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

3. DISCONNECT COOLER REFRIGERANT DISCHARGE HOSE NO.1 (W/ REAR COOLER)

HINT:

Disconnection of the cooler refrigerant discharge hose No.1 is the same way as the discharge hose sub-assy.

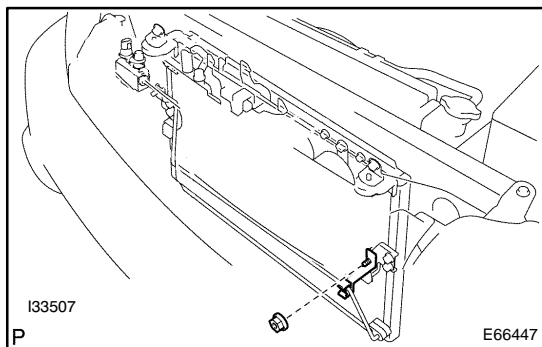


4. DISCONNECT AIR CONDITIONING TUBE ASSY

- (a) Remove the bolt and disconnect the air conditioning tube assy from the cooler condenser core.
- (b) Remove the O-ring from the air conditioning tube assy.

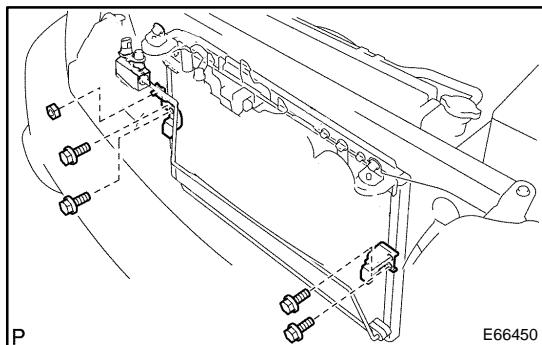
NOTICE:

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

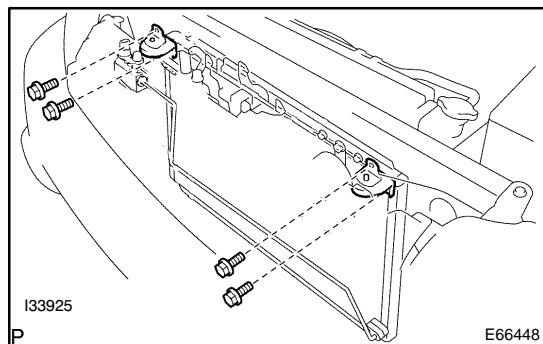


5. REMOVE COOLER CONDENSER BRACKET NO.1

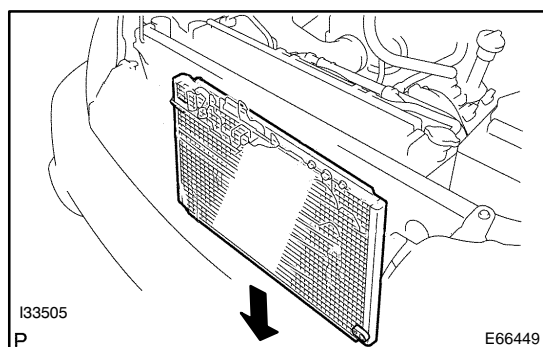
- (a) Remove the nut and the cooler condenser bracket No.1.

**6. REMOVE COOLER CONDENSER CUSHION NO.2**

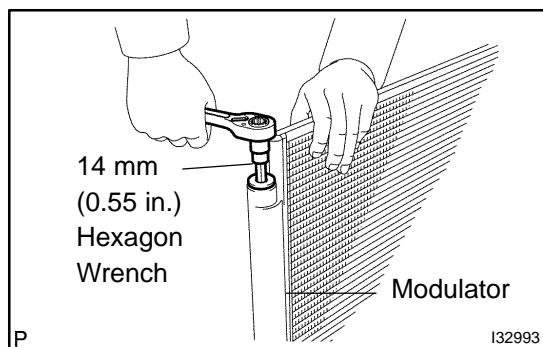
- (a) Remove the 4 bolts, the nut and the cooler condenser cushion No.2.

**7. REMOVE COOLER CONDENSER CUSHION NO.1**

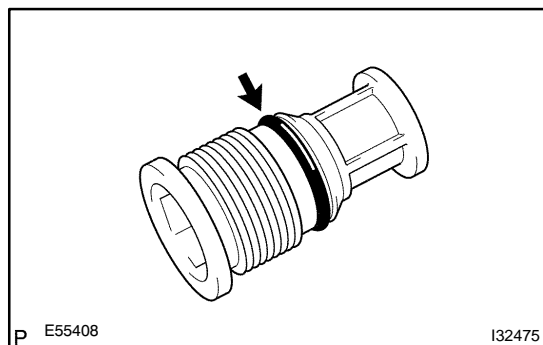
- (a) Remove the 4 bolts and the cooler condenser cushion No.1.

**8. REMOVE COOLER CONDENSER CORE**

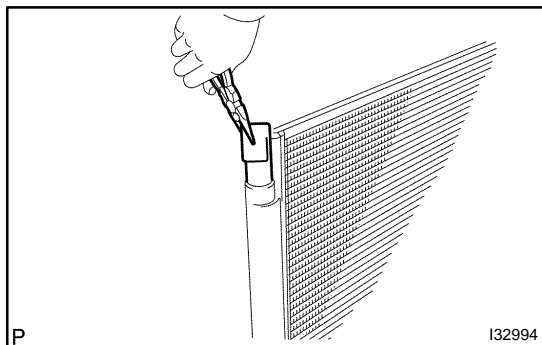
- (a) Remove the cooler condenser core.

**9. REMOVE COOLER DRYER**

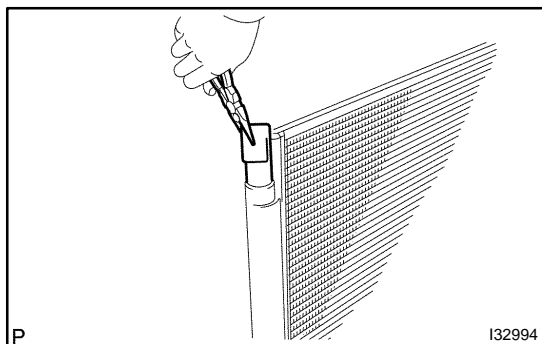
- (a) Using a hexagon wrench 14 mm (0.55 in.), remove the cap from the modulator.



- (b) Remove the O-ring from the cap.

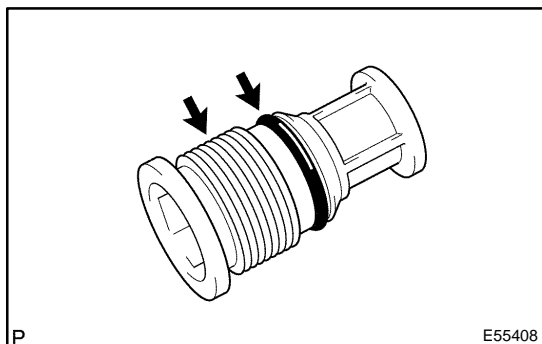


- (c) Using needle nose pliers, remove the cooler dryer.



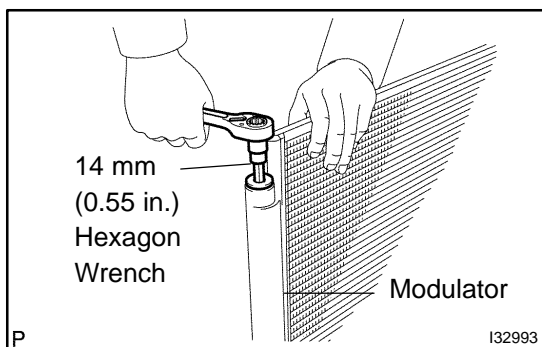
10. INSTALL COOLER DRYER

- (a) Using needle nose pliers, install the cooler dryer.



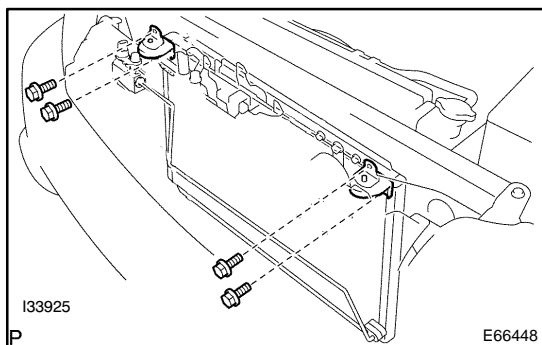
- (b) Install a new O-ring on the cap.
 (c) Sufficiently apply compressor oil to the fitting surfaces of the O-ring and the cap.

Compressor oil: ND-OIL 8 or equivalent



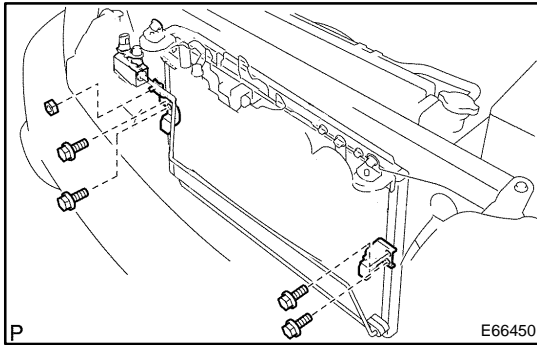
- (d) Using a hexagon wrench 14 mm (0.55 in.), install the cap to the cooler condenser assy.

Torque: 2.9 N·m (30 kgf·cm, 25 in.-lbf)



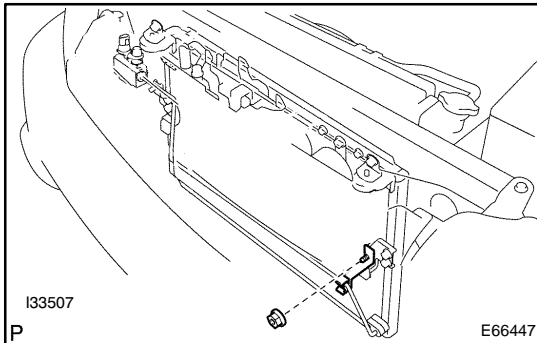
11. INSTALL COOLER CONDENSER CUSHION NO.1

- (a) Install the cooler condenser cushion No.1 with the 4 bolts.
Torque: 5.4 N·m (55 kgf·cm, 47 in.-lbf)

**12. INSTALL COOLER CONDENSER CUSHION NO.2**

- (a) Install the cooler condenser cushion No.2 with the 4 bolts and the nut.

Torque: 5.4 N·m (55 kgf·cm, 47 in.-lbf)

**13. INSTALL COOLER CONDENSER BRACKET NO.1**

- (a) Install the cooler condenser bracket No.1 with the nut.

Torque: 5.4 N·m (55 kgf·cm, 47 in.-lbf)

14. INSTALL AIR CONDITIONING TUBE ASSY

- (a) Remove the attached vinyl tape from the tube and the connecting part of the cooler condenser core.
(b) Sufficiently apply compressor oil to a new O-ring and the fitting surface of the pipe joint.

Compressor oil: ND-OIL 8 or equivalent

- (c) Install the O-ring on the air conditioning tube assy.
(d) Install the air conditioning tube assy on the cooler condenser core with the bolt.

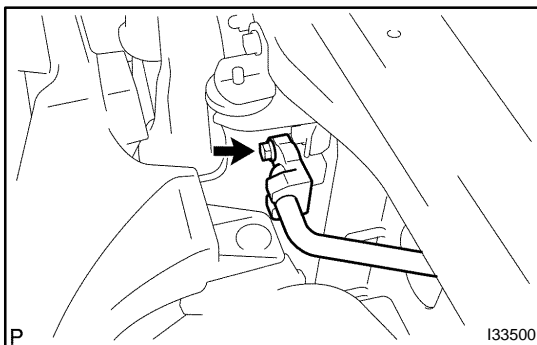
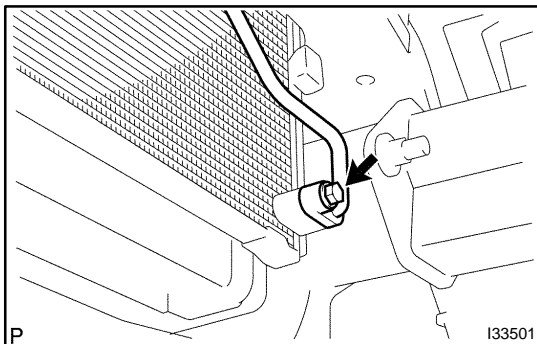
Torque: 5.4 N·m (55 kgf·cm, 47 in.-lbf)

15. INSTALL DISCHARGE HOSE SUB-ASSY (W/O REAR COOLER)

- (a) Remove the attached vinyl tape from the tube and the connecting part of the cooler condenser core.
(b) Sufficiently apply compressor oil to a new O-ring and the fitting surface of the hose joint.

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 cooler condenser core with the bolt.

Torque: 5.4 N·m (55 kgf·cm, 47 in.-lbf)

16. INSTALL COOLER REFRIGERANT DISCHARGE HOSE NO.1 (W/ REAR COOLER)

HINT:

Connection of the cooler refrigerant discharge hose No.1 is the same way as the discharge hose sub-assy.

17. CHARGE REFRIGERANT (See page 55-8)

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.)

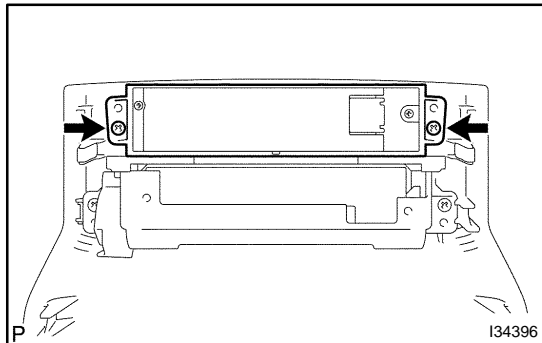
Dual A/C: 800 ± 30 g (28.21 ± 1.06 oz.)

18. WARM UP ENGINE (See page 55-8)**19. INSPECT LEAKAGE OF REFRIGERANT (See page 55-8)**

AIR CONDITIONER CONTROL ASSY OVERHAUL

550UN-02

1. REMOVE CONSOLE REAR END PANEL SUB-ASSY (See page 71-13)

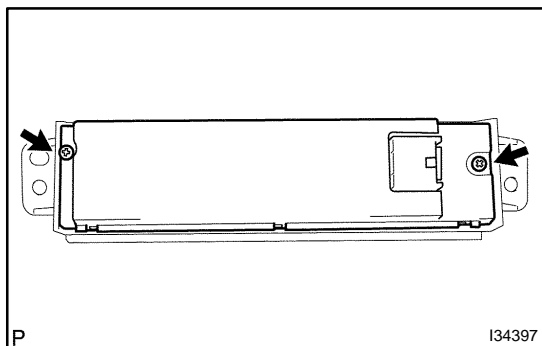


2. REMOVE AIR CONDITIONER CONTROL ASSY

- (a) Remove the 2 screws and the air conditioner Control assy.

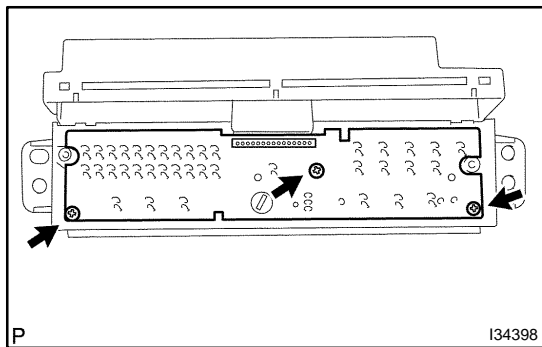
3. REMOVE COOLER CONTROL SWITCH KNOB

4. REMOVE HEATER CONTROL NAME SHEET NO.1

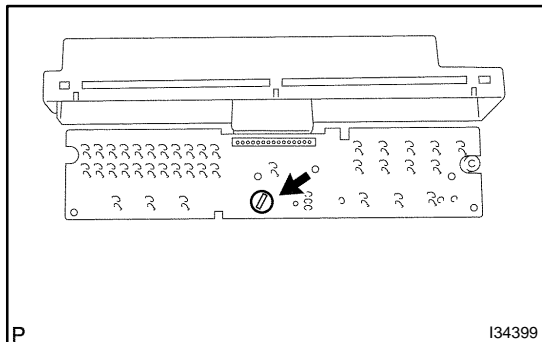


5. REMOVE HEATER CONTROL HOUSING

- (a) Remove the 2 screws.

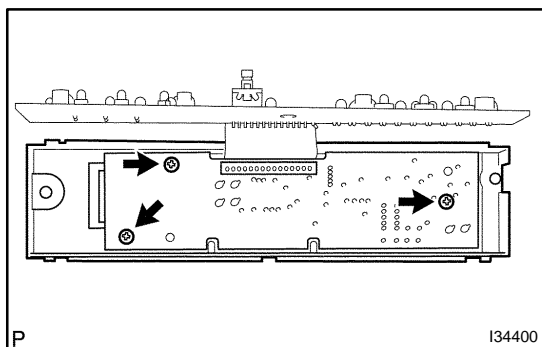


- (b) Remove the 3 screws and the heater control housing.



6. REMOVE AIR CONDITIONING CONTROL BULB

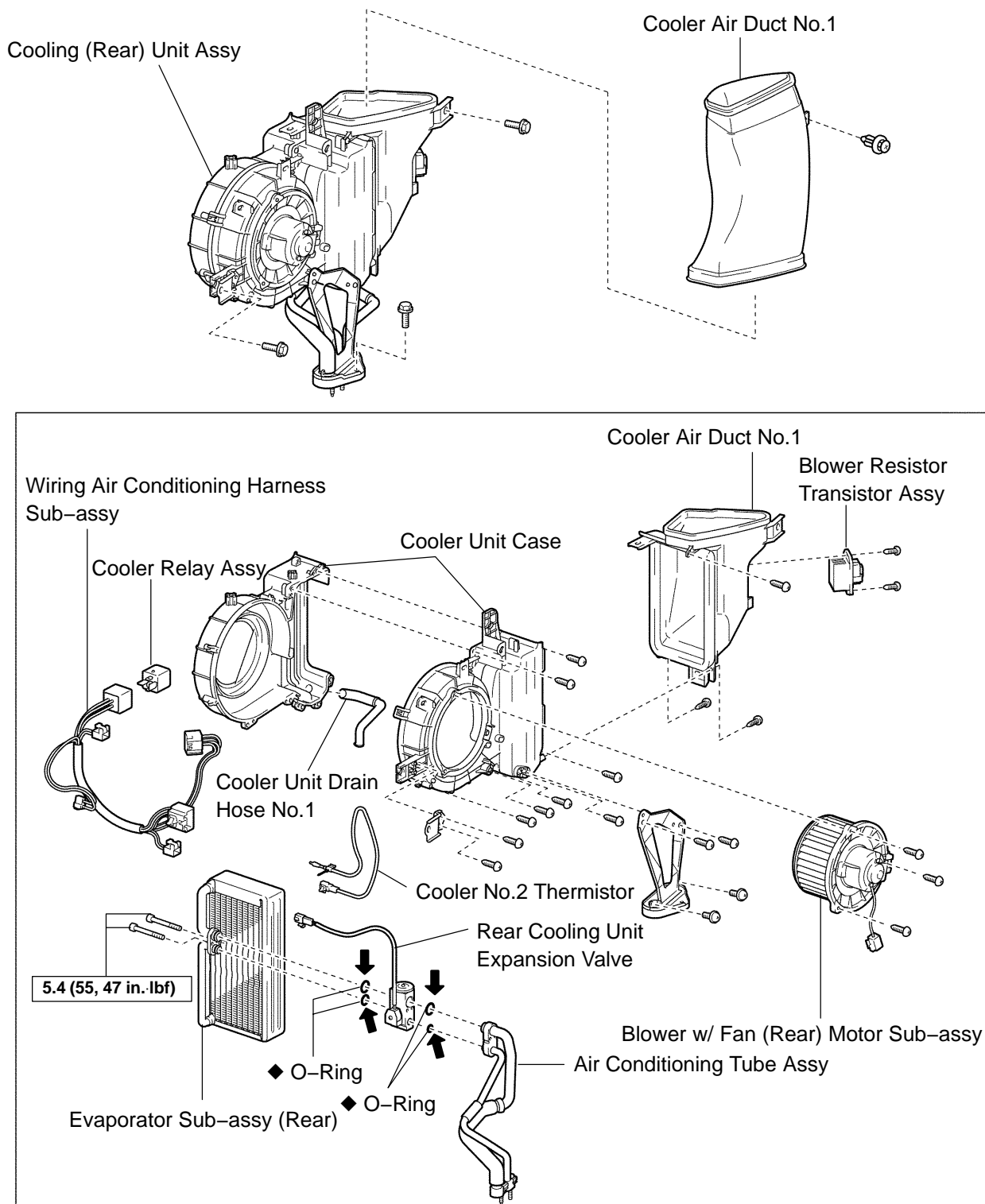
- (a) Remove the air conditioning control bulb.

**7. REMOVE INTEGRATION CONTROL & PANEL ASSY**

- (a) Remove the 3 screws and the integration control & panel assy.

COOLING (REAR) UNIT ASSY COMPONENTS

550UO-02



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

◆ Non-reusable part

← Compressor oil ND-OIL 8 or equivalent

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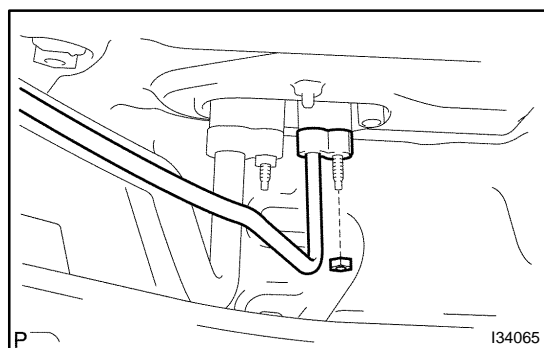
132668

OVERHAUL

HINT:

COMPONENTS: See page 55-48

1. REMOVE REAR NO. 2 SEAT ASSY RH (See page 72-42)
2. REMOVE REAR DOOR SCUFF PLATE RH (See page 76-38)
3. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP RH (See page 76-38)
4. REMOVE REAR FLOOR MAT SUPPORT PLATE REAR (See page 76-38)
5. REMOVE PACKAGE TRAY TRIM PANEL ASSY (See page 76-38)
6. REMOVE QUARTER INSIDE TRIM BOARD RH (See page 76-38)
7. REMOVE ROOF SIDE GARNISH INNER RH (See page 76-38)
8. DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM (See page 55-8)
SST 07110-58060 (07117-58080, 07117-58090, 07117-78050, 07117-88060, 07117-88070, 07117-88080)



9. DISCONNECT D PIPE COOLER REFRIGERANT LIQUID

- (a) Remove the nut and the pipe cooler refrigerant suction B.
- (b) Remove the O-ring from the pipe cooler refrigerant suction B.

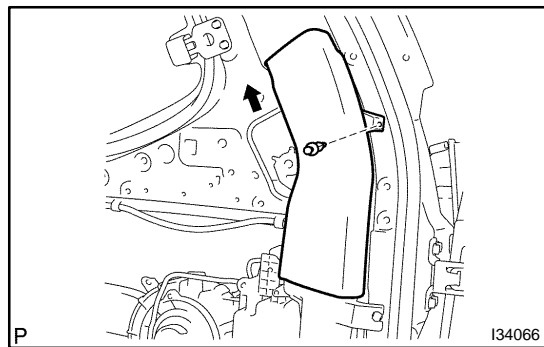
NOTICE:

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

10. DISCONNECT PIPE COOLER REFRIGERANT SUCTION C

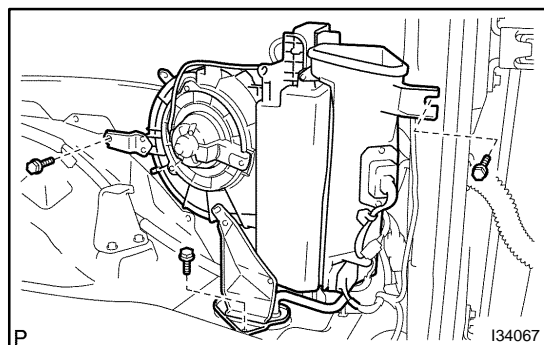
HINT:

Disconnection of the C pipe cooler refrigerant liquid is the same way as the pipe cooler refrigerant suction B.



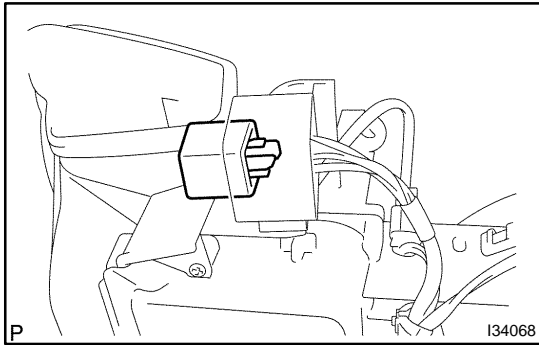
11. REMOVE COOLER AIR DUCT NO.1

- (a) Remove the clip and the cooler air duct No.1.

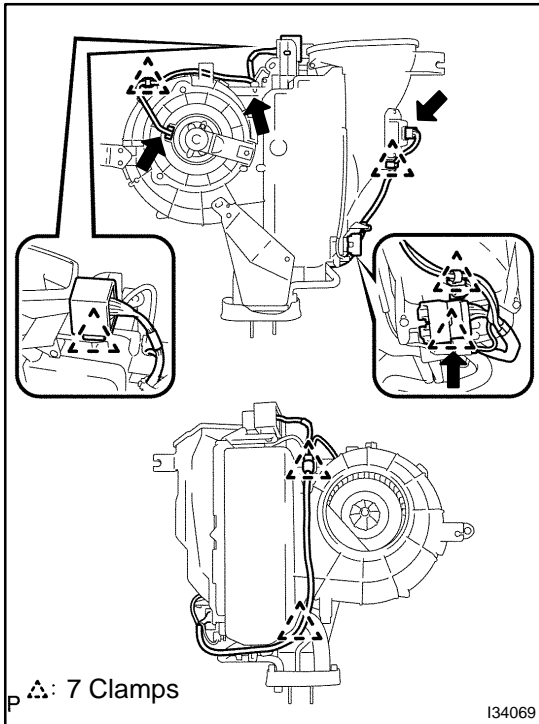


12. REMOVE COOLING (REAR) UNIT ASSY

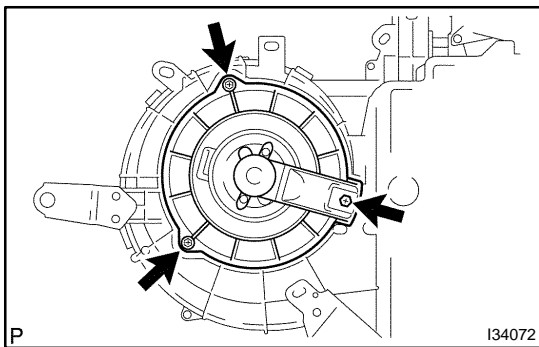
- (a) Disconnect the connectors.
- (b) Remove the 3 bolts and the cooling (rear) unit assy.

**13. REMOVE COOLER RELAY ASSY**

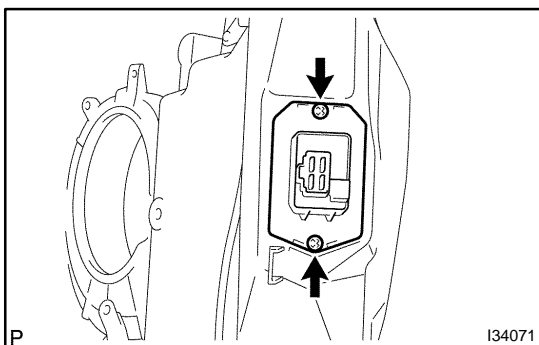
- (a) Disconnect the connector.
- (b) Remove the cooler relay assy.

**14. REMOVE WIRING AIR CONDITIONING HARNESS SUB-ASSY**

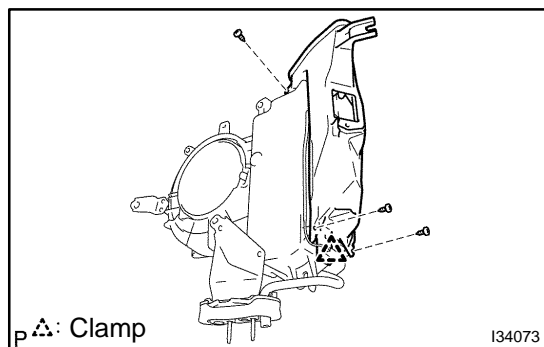
- (a) Disconnect the connectors.
- (b) Release the 7 clamps and remove the wiring air conditioning harness sub-assy.

**15. REMOVE BLOWER W/FAN (REAR) MOTOR SUB-ASSY**

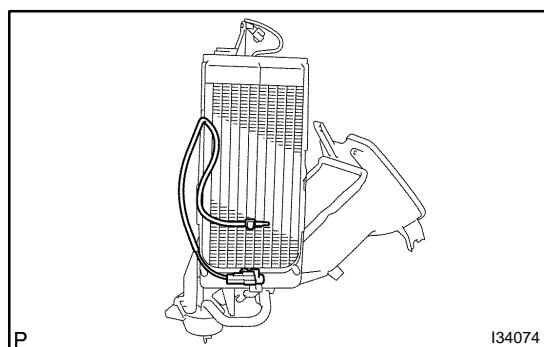
- (a) Remove the 3 screws and the blower w/ fan (rear) motor sub-assy.

**16. REMOVE BLOWER RESISTOR TRANSISTOR ASSY**

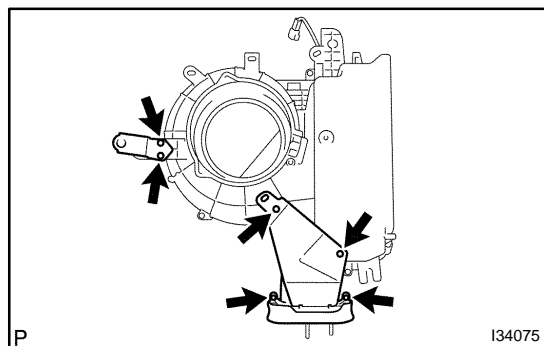
- (a) Remove the 2 screws and the blower resistor transistor assy.

**17. REMOVE COOLER AIR DUCT NO.1**

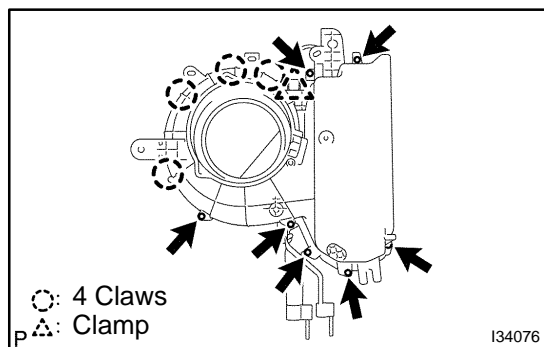
- (a) Release the clamp and remove the 3 screws and the cooler air duct No.1.

**18. REMOVE COOLER NO.2 THERMISTOR**

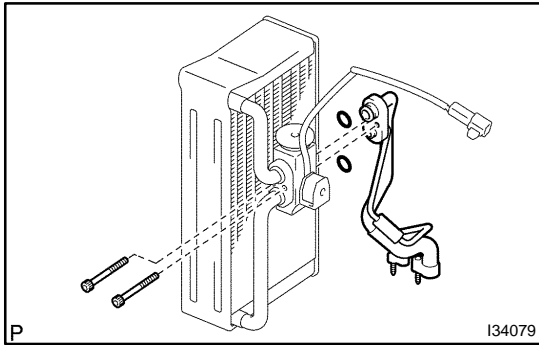
- (a) Remove the cooler No.2 thermistor.

19. REMOVE COOLER UNIT DRAIN HOSE NO.1**20. REMOVE COOLER UNIT CASE**

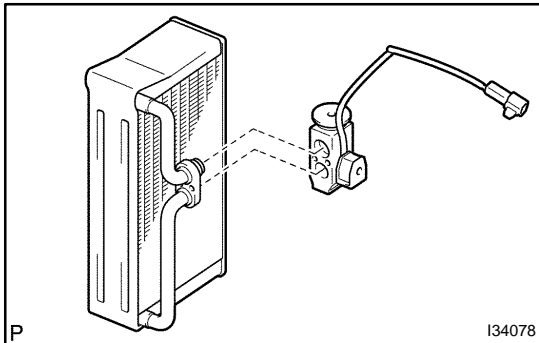
- (a) Remove the 6 screws and the 2 brackets.



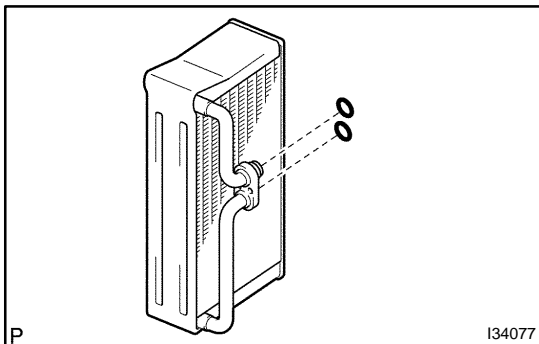
- (b) Release the 4 claw fittings and the clamp, and remove the 7 screws and the 2 cooler unit cases.

**21. REMOVE AIR CONDITIONING TUBE ASSY**

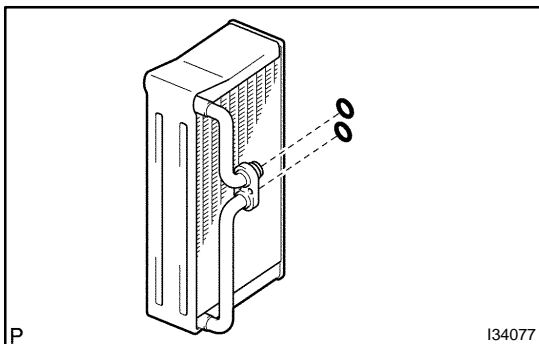
- (a) Using a hexagon wrench 4.0 mm (0.15 in), remove the 2 hexagon bolts and the air conditioning tube assy.
- (b) Remove the 2 O-rings from the air conditioning tube assy.

**22. REMOVE REAR COOLING UNIT EXPANSION VALVE**

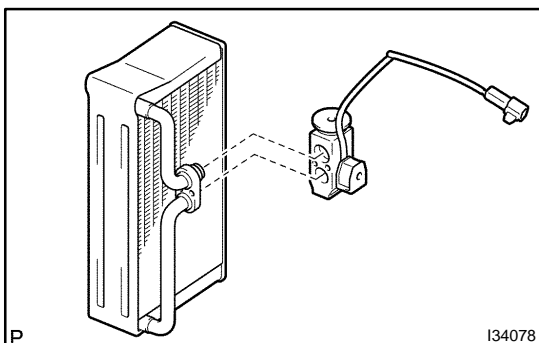
- (a) Remove the rear cooling unit expansion valve.

**23. REMOVE EVAPORATOR SUB-ASSY (REAR)**

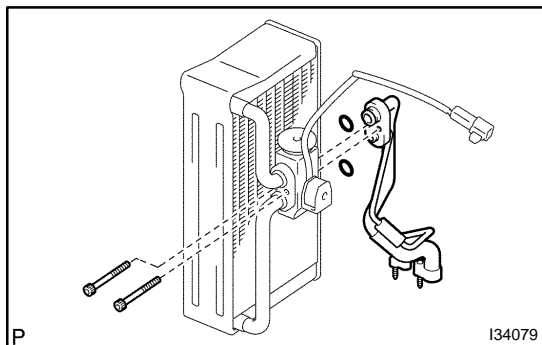
- (a) Remove the 2 O-rings from the evaporator sub-assy (rear).

**24. INSTALL EVAPORATOR SUB-ASSY (REAR)**

- (a) Sufficiently apply compressor oil to 2 new O-rings and the fitting surface of the rear cooling unit expansion valve.
Compressor oil: ND-OIL 8 or equivalent
- (b) Install the 2 O-rings to the evaporator sub-assy (rear).

**25. INSTALL REAR COOLING UNIT EXPANSION VALVE**

- (a) Install the rear cooling unit expansion valve.

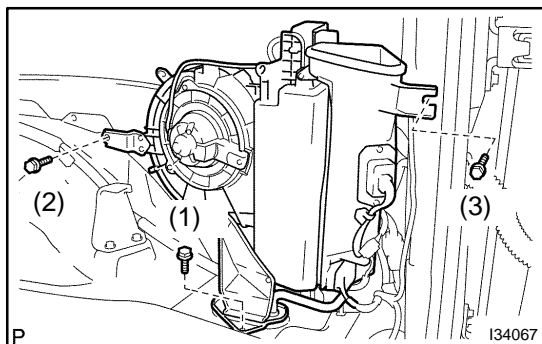
**26. INSTALL AIR CONDITIONING TUBE ASSY**

- (a) Sufficiently apply compressor oil to 2 new O-rings and the fitting surface of the air conditioning tube assy.

Compressor oil: ND-OIL 8 or equivalent

- (b) Install the 2 O-rings to the air conditioning tube assy.
 (c) Using a hexagon wrench 4.0 mm (0.15 in.), install the air conditioning tube assy with the 2 hexagon bolts.

Torque: 5.4 N·m (55 kgf·cm, 47 in.-lbf)

**27. INSTALL COOLING (REAR) UNIT ASSY**

- (a) Install the cooling (rear) unit assy with the 3 bolt.

NOTICE:

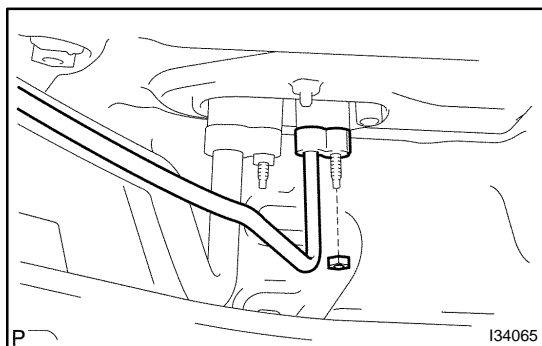
Tighten the bolts in the order shown in the illustration to install the cooling (rear) unit assy.

28. INSTALL D PIPE COOLER REFRIGERANT LIQUID

- (a) Remove the attached vinyl tape from the pipe.
 (b) Sufficiently apply compressor oil to a new O-ring and the fitting surface of the rear cooler and accessory assy.

Compressor oil: ND-OIL 8 or equivalent

- (c) Install the O-ring on the pipe cooler refrigerant suction B.



- (d) Install the pipe cooler refrigerant suction B on the cooling (rear) unit assy with the nut.

Torque: 9.8 N·m (100 kgf·cm, 87 in.-lbf)

29. INSTALL PIPE COOLER REFRIGERANT SUCTION C

HINT:

Connection of the C pipe cooler refrigerant liquid is the same way as the pipe cooler refrigerant suction B.

30. CHARGE REFRIGERANT (See page 55-8)

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

Specified amount: 800 ± 30 g (28.21 ± 1.06 oz.)

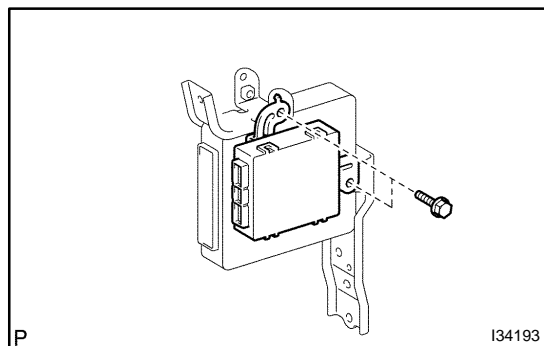
31. WARM UP ENGINE (See page 55-8)**32. INSPECT LEAKAGE OF REFRIGERANT (See page 55-8)**

AIR CONDITIONING AMPLIFIER ASSY

550UQ-02

REPLACEMENT

1. REMOVE FRONT DOOR SCUFF PLATE RH (See page 71-13)
2. REMOVE COWL SIDE TRIM BOARD RH (See page 71-13)
3. REMOVE INSTRUMENT PANEL UNDER COVER NO.2 (See page 71-13)
4. REMOVE GLOVE COMPARTMENT DOOR SUB-ASSY (See page 71-13)
5. REMOVE INSTRUMENT PANEL ORNAMENT (See page 71-13)
6. REMOVE INSTRUMENT PANEL FINISH PANEL LOWER NO.2 (See page 71-13)
7. REMOVE ECM (See page 10-16)



8. REMOVE AIR CONDITIONING AMPLIFIER ASSY
 - (a) Remove the 2 bolts and the air conditioning amplifier assy.