

## OVERHAUL

HINT:

COMPONENTS: See page 55-1 1

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

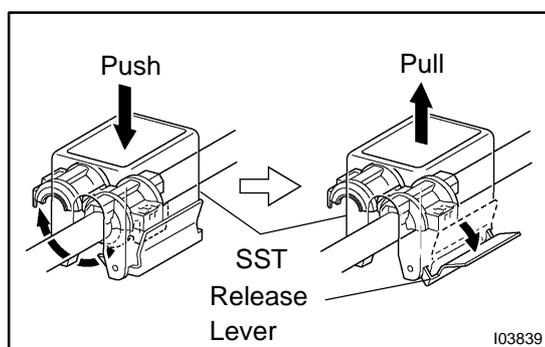
SST 07110-58060 (07117-58080, 07117-58090, 07117-78050, 07117-88060, 07117-88070, 07117-88080)

### 2. DISCONNECT COOLER REFRIGERANT SUCTION PIPE C

(a) Install SST on piping clamp.

HINT:

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



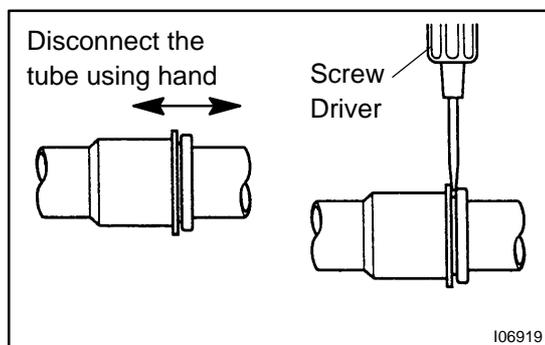
(b) Push down SST and release the clamp lock.

**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.

SST 09870-00015



(d) Disconnect the air conditioning tube assy.

**NOTICE:**

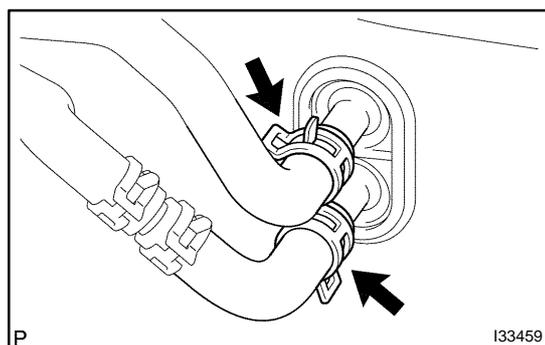
- Do not use tools like screwdriver to remove the tube.
- Cap the open fittings immediately to keep moisture or dirt out of the system.

### 3. DISCONNECT COOLER REFRIGERANT LIQUID PIPE C

HINT:

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

SST 09870-00025



### 4. DISCONNECT HEATER WATER OUTLET HOSE A(FROM HEATER UNIT)

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

**5. DISCONNECT HEATER WATER INLET HOSE A**

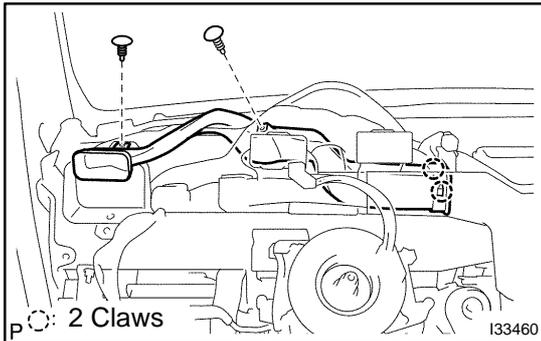
HINT:

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

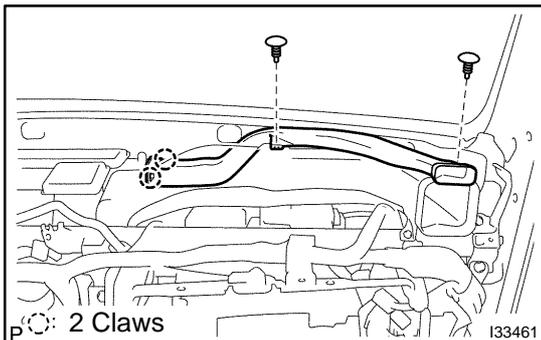
**6. REMOVE INSTRUMENT PANEL SAFETY PAD SUB-ASSY (See page 71-12 )**

HINT:

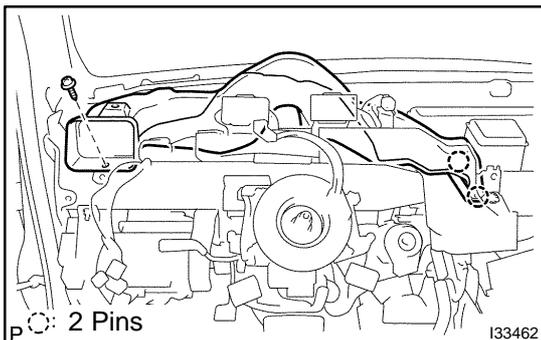
Refer to the instructions for removal of the instrument panel safety pad sub-assy.

**7. REMOVE AIRCONDITIONER AMPLIFIER ASSY (See page 55-43 )****8. REMOVE SIDE DEFROSTER NOZZLE DUCT NO.1**

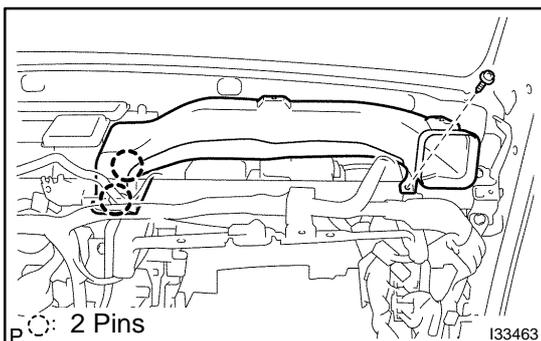
- (a) Remove the 2 clips.
- (b) Release the 2 claw fittings and remove the side defroster nozzle duct No.1.

**9. REMOVE SIDE DEFROSTER NOZZLE DUCT NO.2**

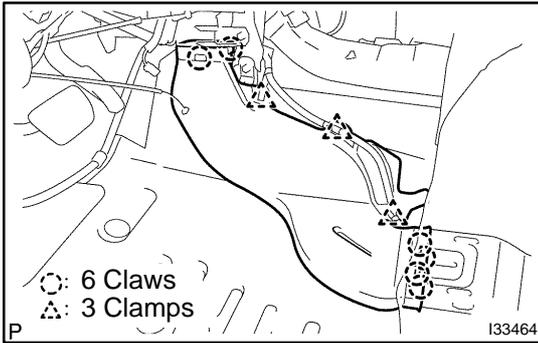
- (a) Remove the 2 clips.
- (b) Release the 2 claw fittings and remove the side defroster nozzle duct No.2.

**10. REMOVE HEATER TO REGISTER DUCT NO.1**

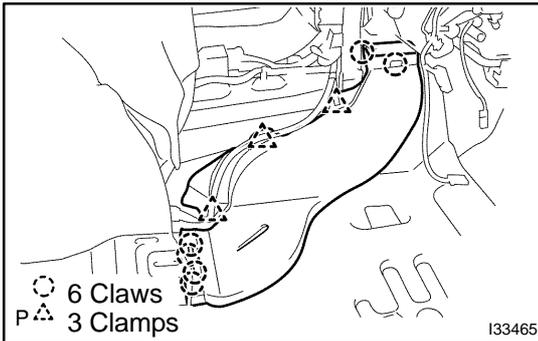
- (a) Remove the screw.
- (b) Release the 2 pin fittings and remove the heater to register duct No.1.

**11. REMOVE HEATER TO REGISTER DUCT NO.3**

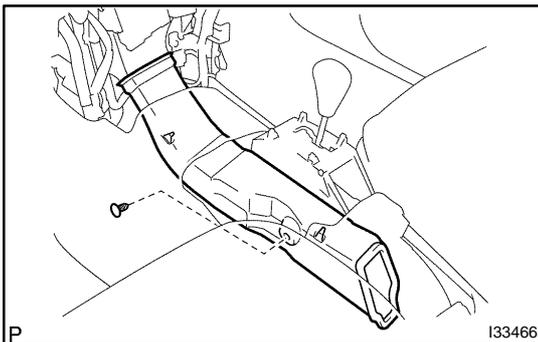
- (a) Remove the screw.
- (b) Release the 2 pin fittings and remove the heater to register duct No.3.

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

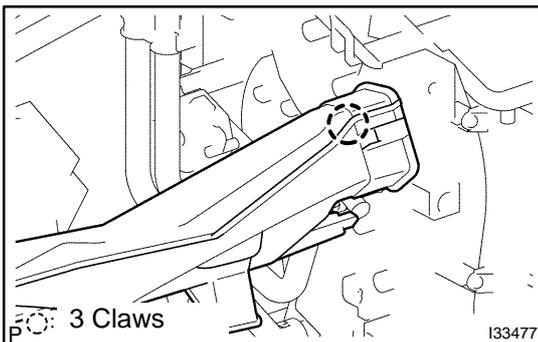
- (a) Release the 6 claw fittings and 3 clamps and remove the air duct rear No.1.

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

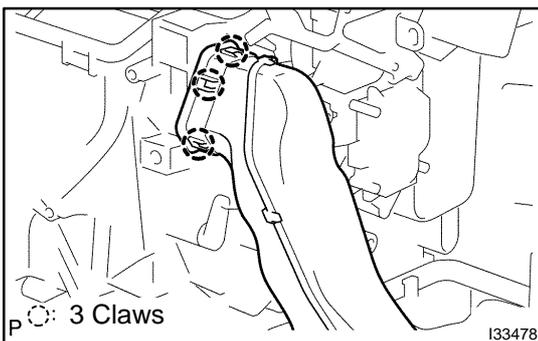
- (a) Release the 6 claw fittings and 3 clamps and remove the air duct rear No.2.

**14. DISCONNECT CONSOLE BOX DUCT NO.1**

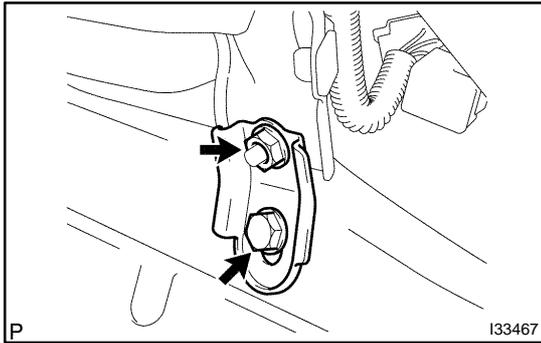
- (a) Remove the clip and disconnect the console box duct No.1.

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

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

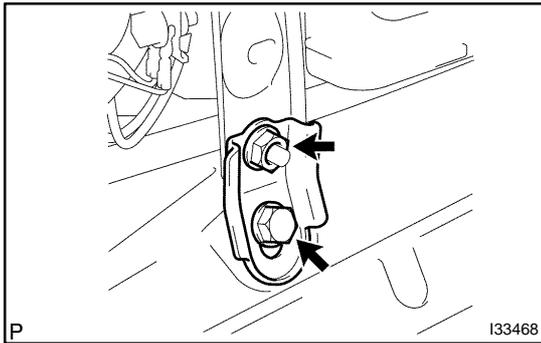
**16. REMOVE AIR DUCT NO.2**

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

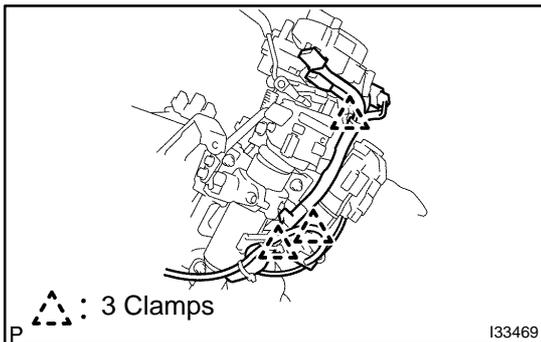


### 17. REMOVE INSTRUMENT PANEL BRACE MOUNTING BRACKET NO.1

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

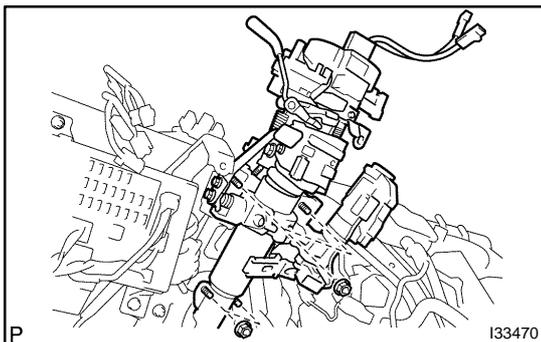


- (b) Remove the bolt, nut and instrument panel brace mounting bracket No.1.



### 18. DISCONNECT STEERING COLUMN ASSY

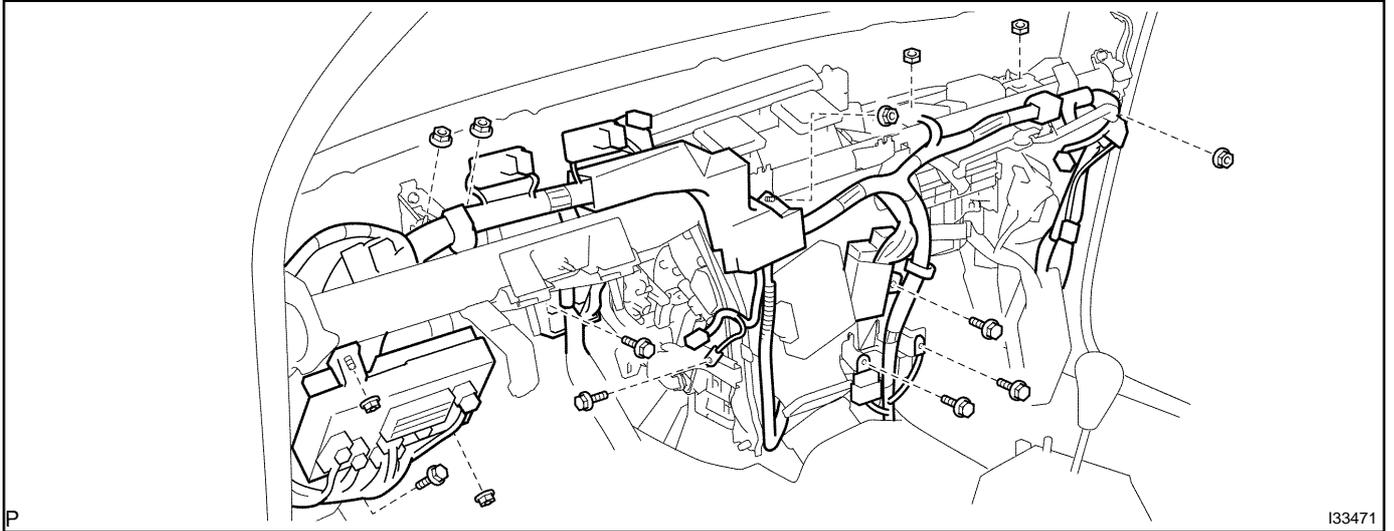
- (a) Release the 3 clamps and disconnect the connector.



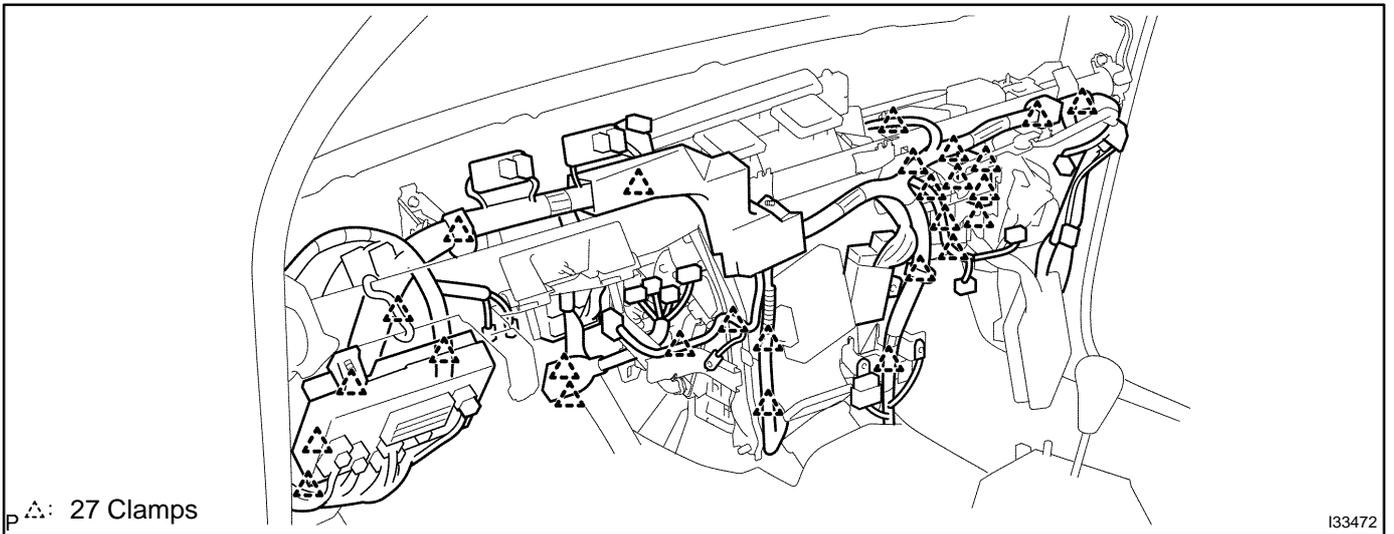
- (b) Remove the 4 nuts and disconnect the steering column assembly.

**19. REMOVE INSTRUMENT PANEL REINFORCEMENT**

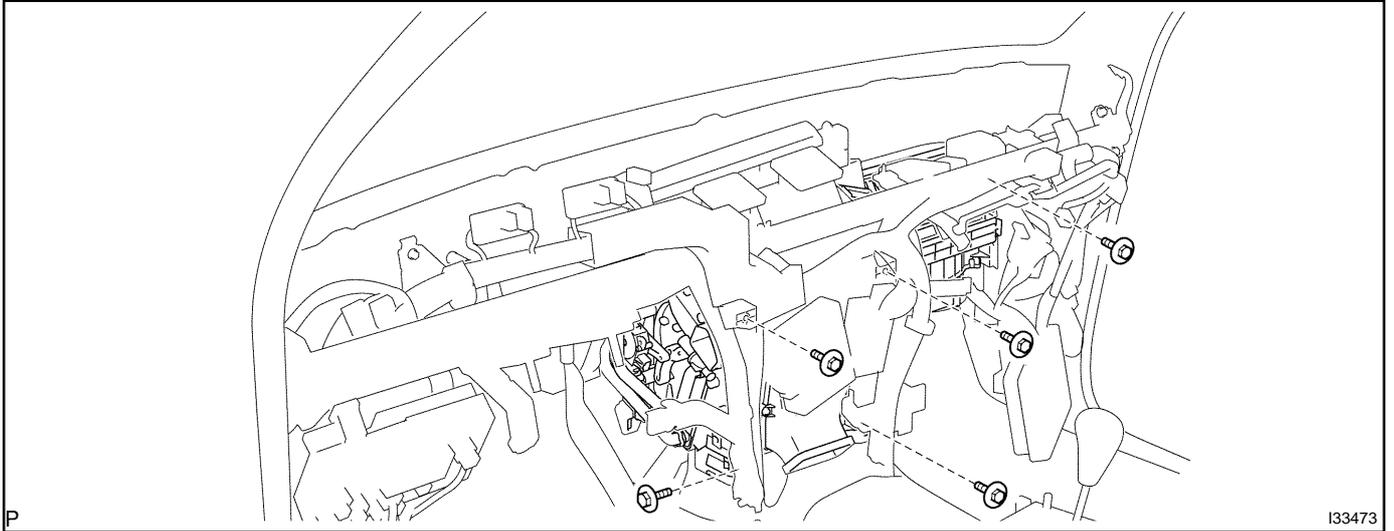
- (a) Remove the 6 bolts and 8 nuts.



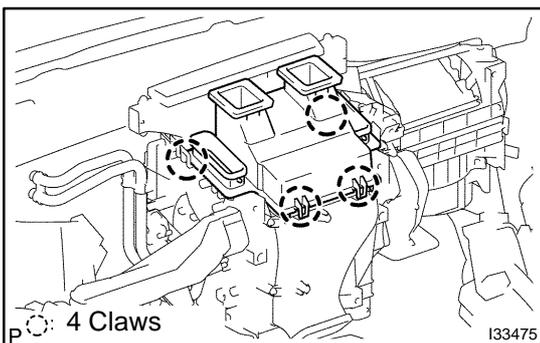
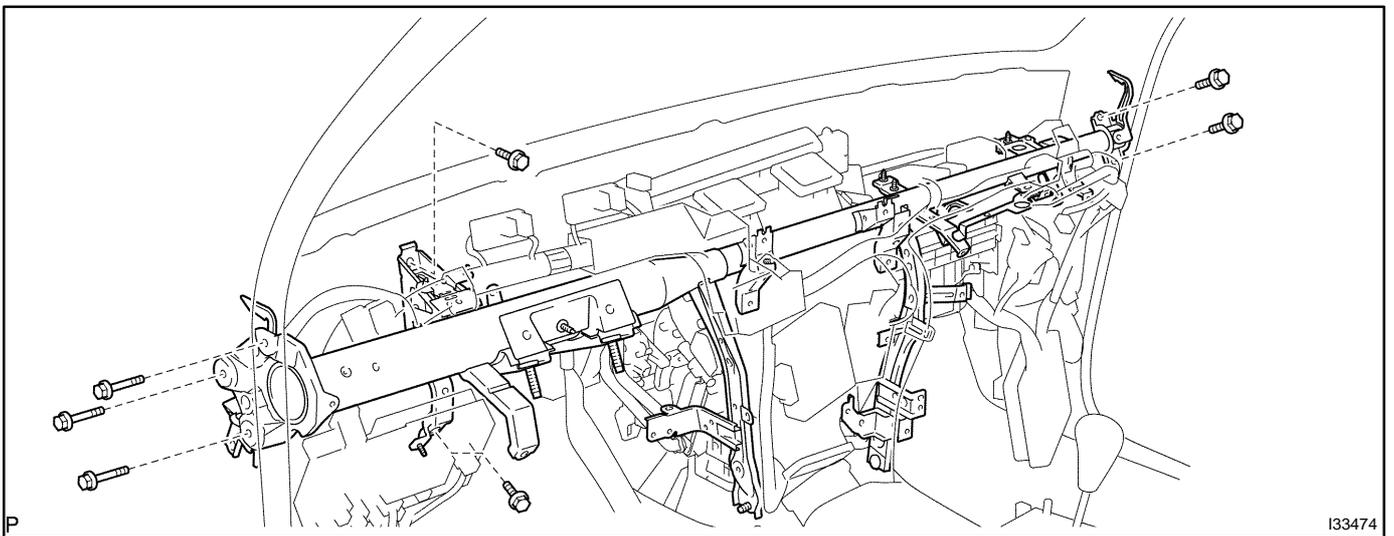
- (b) Release the 27 clamps.
- (c) Disconnect the connectors.



(d) Remove the 5 bolts.

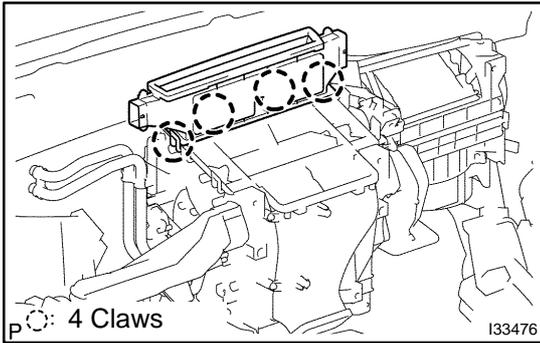


(e) Remove the 7 bolts and instrument panel reinforcement.

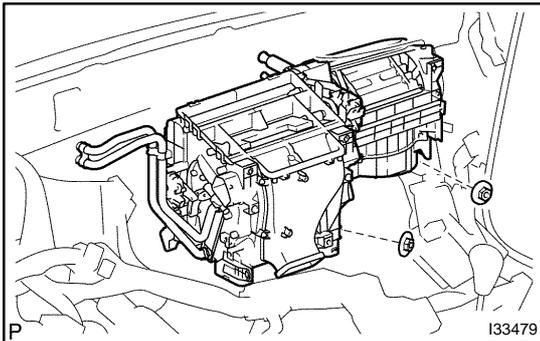


**20. REMOVE HEATER TO REGISTER DUCT CENTER**

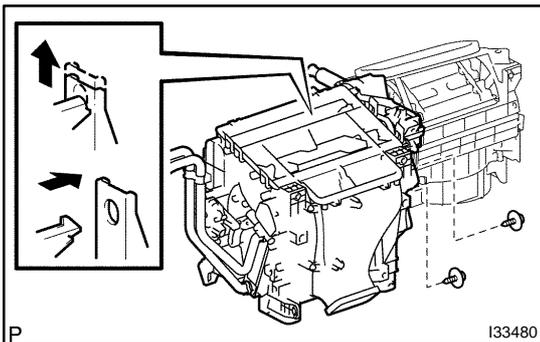
(a) Release the 4 claw fittings and remove the heater to register duct center.

**21. REMOVE DEFROSTER NOZZLE ASSY LOWER**

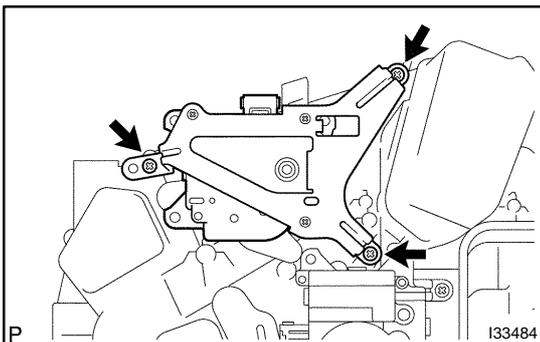
- (a) Release the 4 claw fittings and remove the defroster nozzle assy lower.

**22. REMOVE AIR CONDITIONER UNIT ASSY**

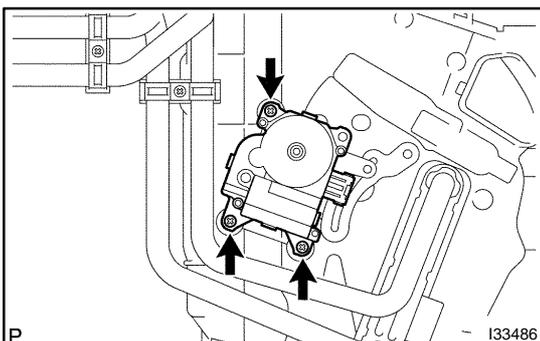
- (a) Disconnect the connectors.  
 (b) Remove the 2 nut and airconditioner unit assy.

**23. REMOVE AIR CONDITIONING RADIATOR ASSY**

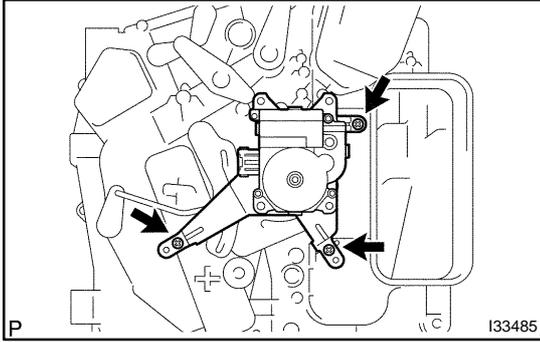
- (a) Remove the 2 screws and air conditioning radiator assy.

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

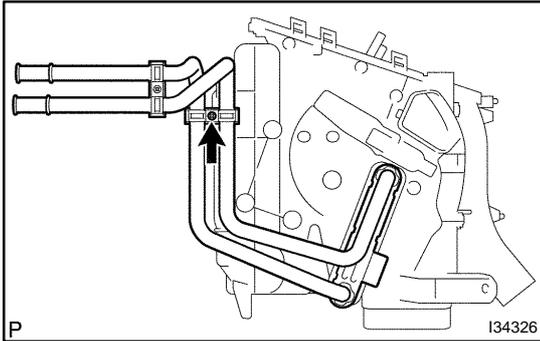
- (a) Remove the 3 screws and mode damper servo sub-assy.

**25. REMOVE DAMPER SERVO SUB-ASSY (INDEPENDENCE TEMPERATURE CONTROL)**

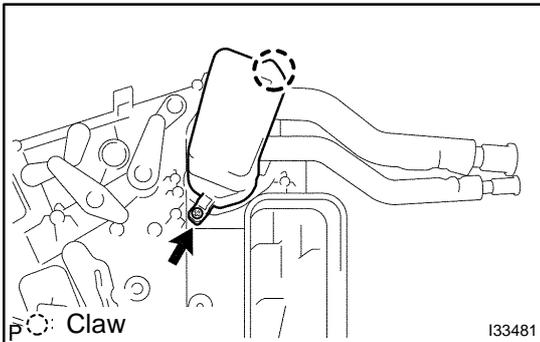
- (a) Remove the 3 screws and damper servo sub-assy.

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

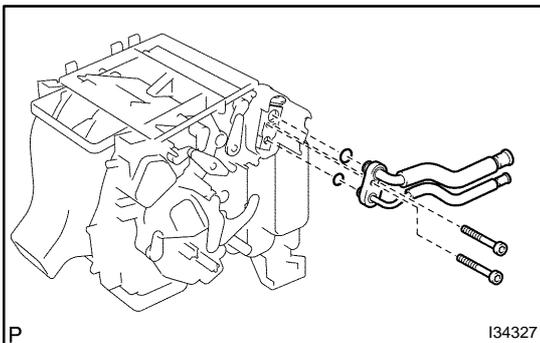
- (a) Remove the 3 screws and damper servo sub-assy.

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

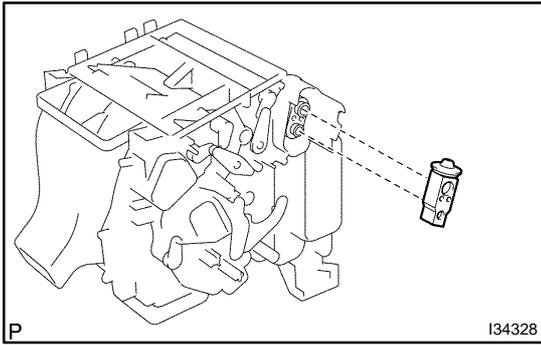
- (a) Remove the screw, clamp and heater radiator unit sub-assy.

**28. REMOVE COOLER THERMISTOR NO.1****29. REMOVE COOLER COVER NO.1****30. REMOVE COOLER UNIT DRAIN HOSE NO.1****31. REMOVE AIR CONDITIONING TUBE ASSY**

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

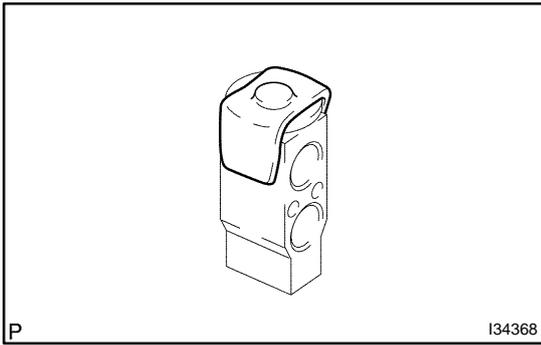


- (c) Using a hexagon wrench 4.0 mm (0.15 in.), remove the 2 hexagon bolts and air conditioning tube assy.  
 (d) Remove the 2 O-rings from the air conditioning tube assy.



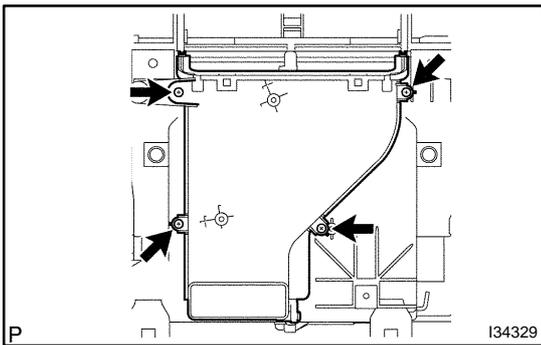
**32. REMOVE COOLER EXPANSION VALVE**

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



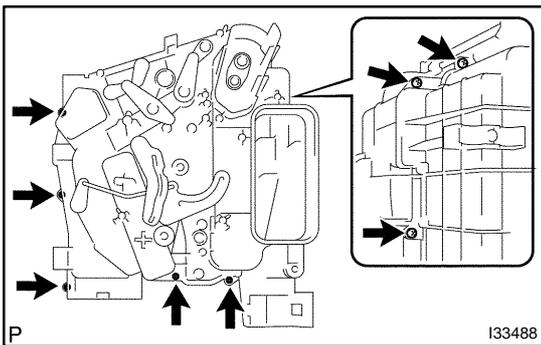
**33. REMOVE COOLING UNIT PACKING NO.1**

- (a) Remove the cooling unit packing No.1.



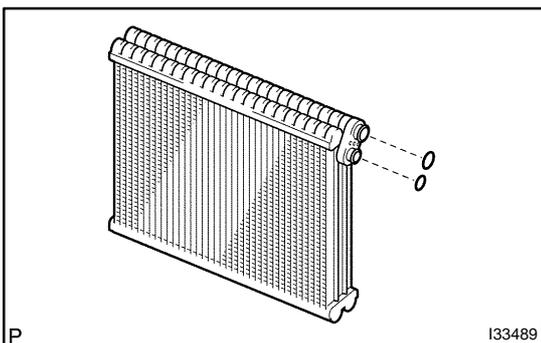
**34. REMOVE COOLER EVAPORATOR SUB-ASSY NO.1**

- (a) Remove the 4 screws and air duct sub-assy.



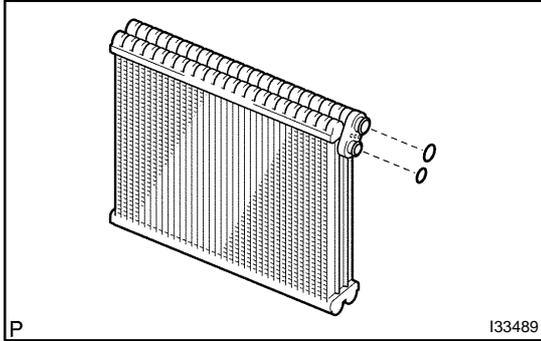
- (b) Remove the 8 screws and separate the heater case.

- (c) Remove the cooler evaporator sub-assy No.1.



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

### 35. REMOVE COVER PLATE (EXCEPT INDEPENDENCE TEMPERATURE CONTROL)

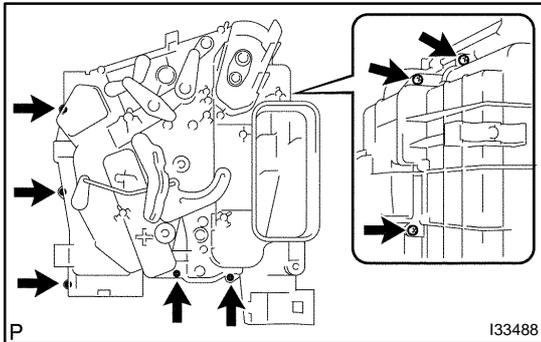


### 36. INSTALL COOLER EVAPORATOR SUB-ASSY NO.1

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

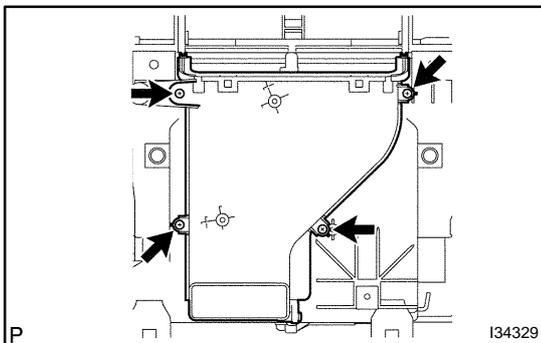
**Compressor oil: ND-OIL8 or equivalent**

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

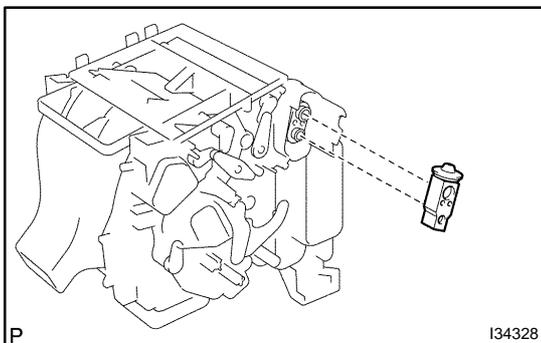


- (c) Install the cooler evaporator sub-assy No.1 on the heater case.

- (d) Install the heater case with the 8 screws.

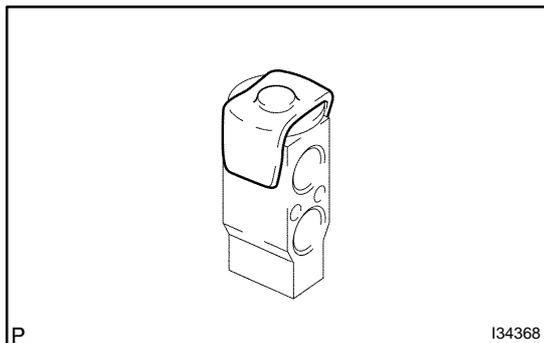


- (e) Install the air duct sub-assy with the 4 screws.



### 37. INSTALL COOLER EXPANSION VALVE

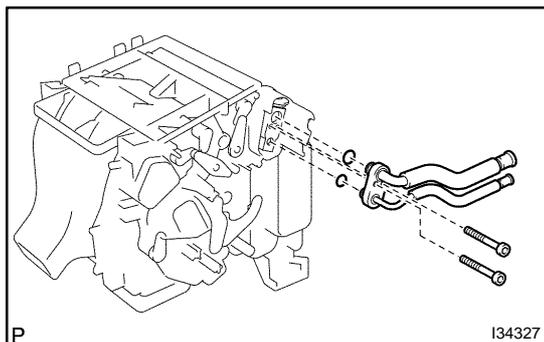
- (a) Install the cooler expansion valve from cooler evaporator sub-assy No.1.

**38. INSTALL COOLING UNIT PACKING NO.1**

- (a) Install the cooling unit packing No.1.

HINT:

Securely attach so that the gap in the cooling unit packing No.1 will not be made.

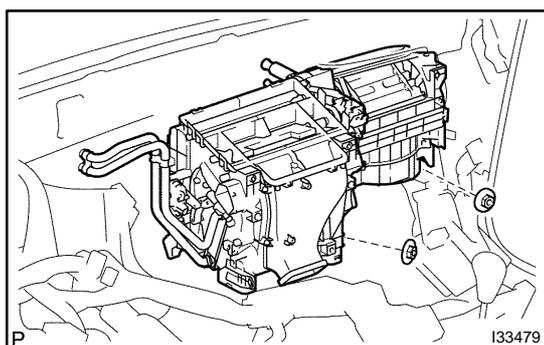
**39. INSTALL AIR CONDITIONING TUBE ASSY**

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

**Compressor oil: ND-OIL8 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)**

**40. INSTALL AIR CONDITIONER UNIT ASSY**

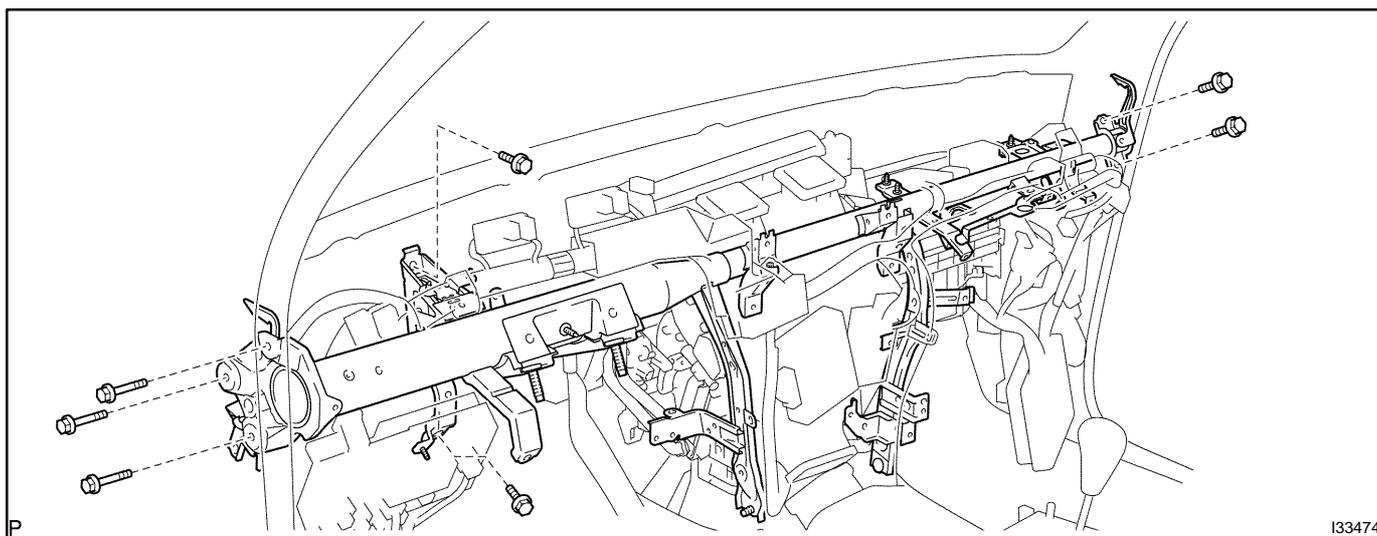
- (a) Install the air conditioner unit assy with the 2 nuts.

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

- (b) Connect the connectors.

**41. INSTALL INSTRUMENT PANEL REINFORCEMENT**

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

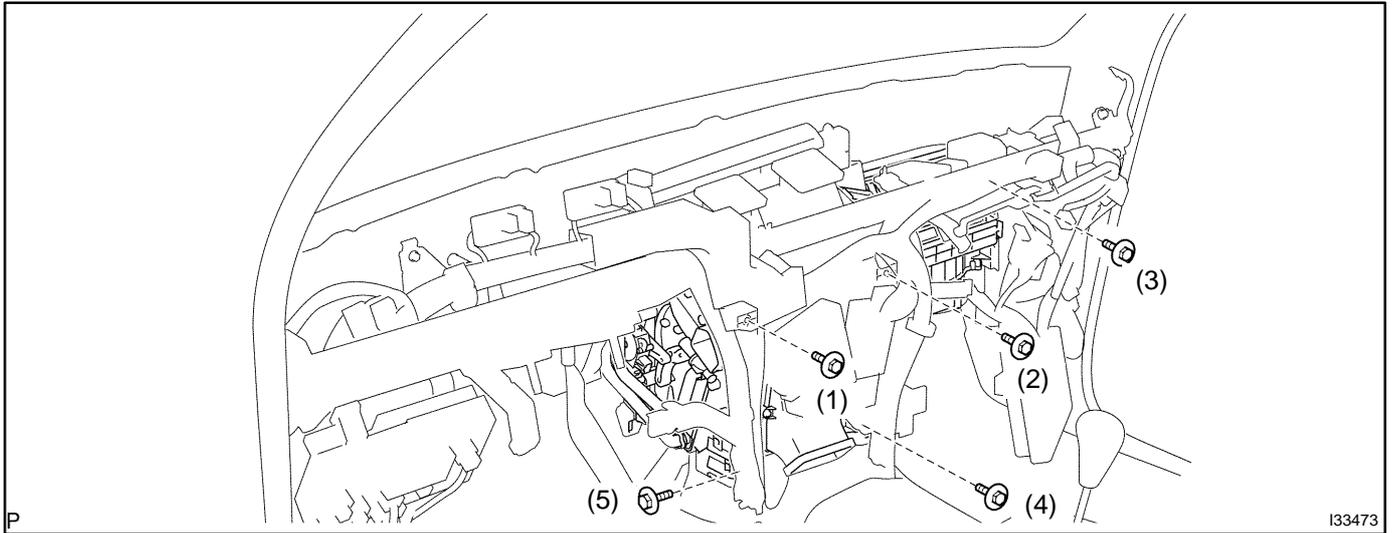


(b) Install the 5 bolts.

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

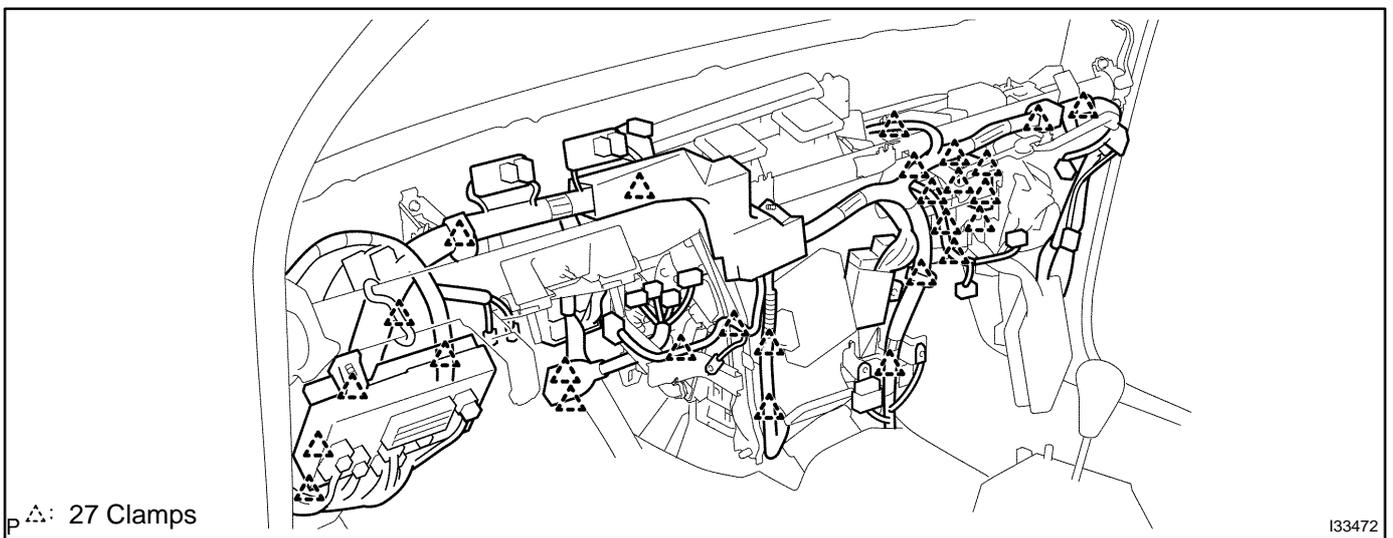
**NOTICE:**

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

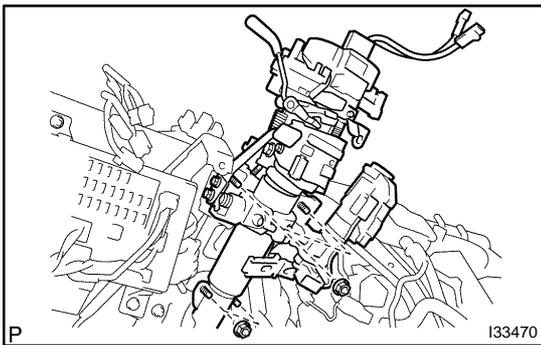
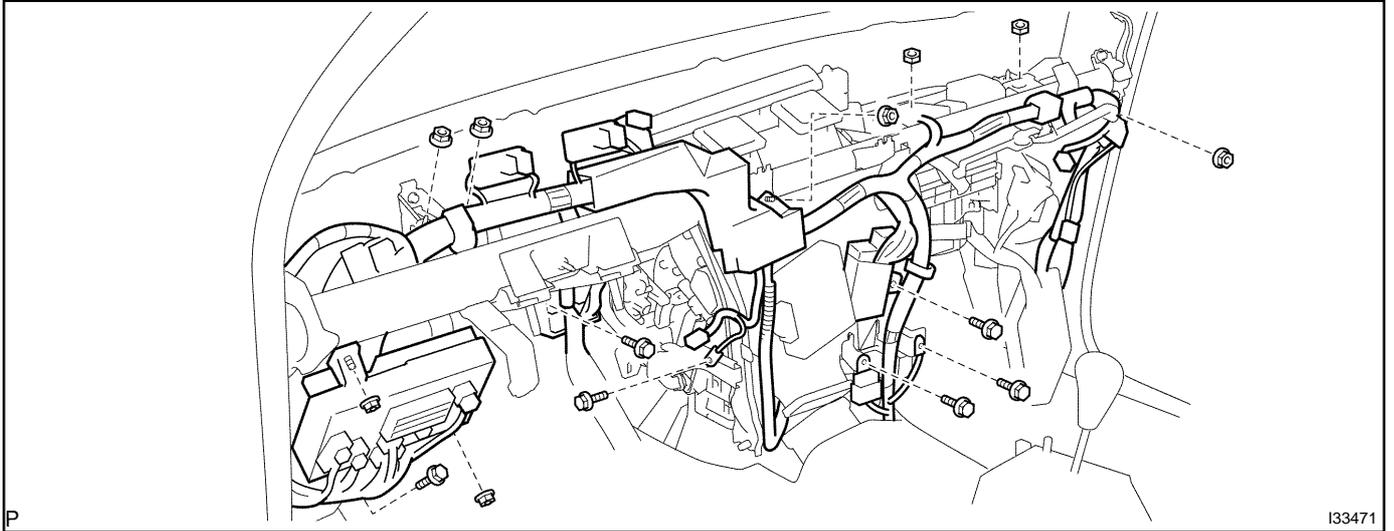


(c) Install the 27 clamps.

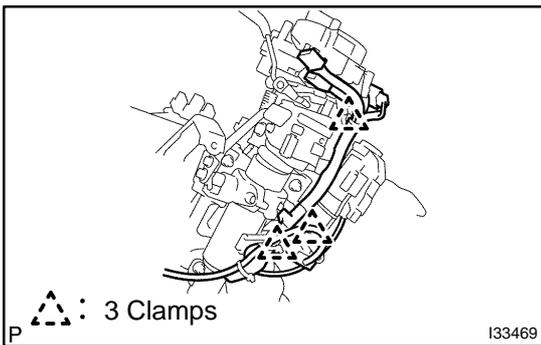
(d) Connect the connectors.



- (e) Install the 6 bolts and 8 nuts.  
**Torque: 8.3 N·m (85 kgf·cm, 73 in·lbf)**

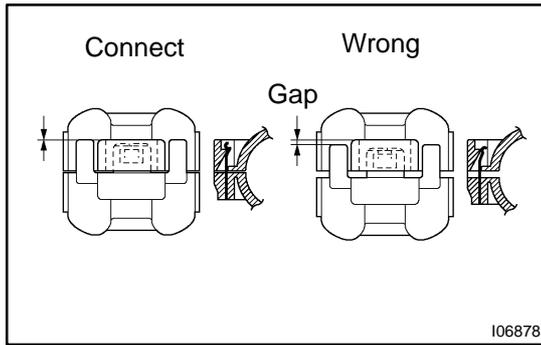


- 42. INSTALL STEERING COLUMN ASSY**
- (a) Install the steering column assy with the 4 nuts.  
**Torque: 26 N·m (265 kgf·cm, 19 in·lbf)**



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

**43. INSTALL INSTRUMENT PANEL SAFETY PAD SUB-ASSY (See page 71-12 )**

**44. INSTALL COOLER REFRIGERANT LIQUID PIPE C**

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

**Compressor oil: ND-OIL 8 or equivalent**

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

**HINT:**

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

**45. INSTALL COOLER REFRIGERANT SUCTION PIPE C**

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

**Compressor oil: ND-OIL 8 or equivalent**

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

**HINT:**

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

**46. 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: 650 ± 30 g (22.92 ± 1.06 oz.)**

**47. WARM UP ENGINE (See page 55-8 )****48. INSPECT LEAKAGE OF REFRIGERANT (See page 55-8 )**