

## OVERHAUL

HINT:

COMPONENTS: See page 55-32

### 1. DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM (See page 71-9)

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

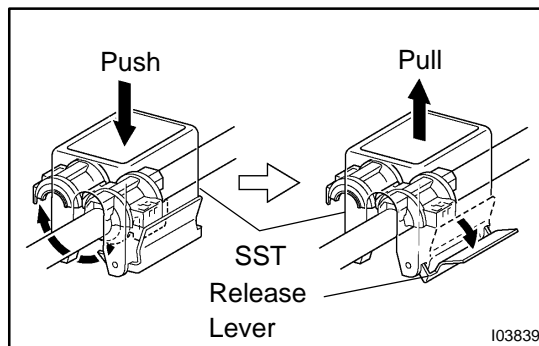
### 2. DISCONNECT COOLER REFRIGERANT SUCTION HOSE NO.1

(a) Install SST to piping clamp.

SST 09870-00015

HINT:

Confirm the direction of the piping clamp claw and SST using the illustration showing on the caution label.

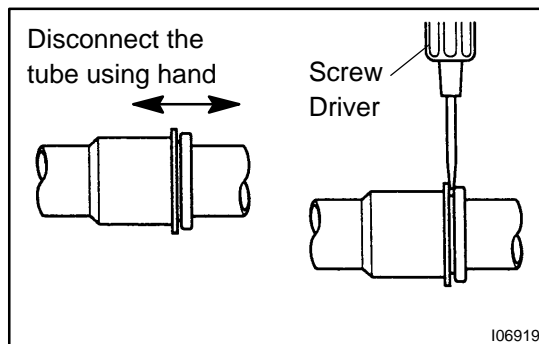


(b) Push down SST and release the clamp lock.

**NOTICE:**

**Be careful not to deform the tube, when pushing SST.**

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



(d) Disconnect the cooler refrigerant suction hose No. 1.

**NOTICE:**

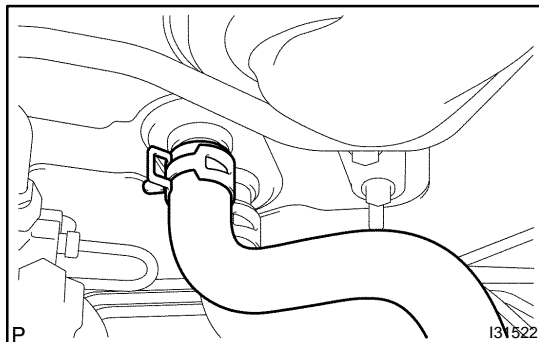
- Do not use tools like screwdriver to remove the tube.
- Cap the open fittings immediately to keep moisture or dirt out of the system.

### 3. DISCONNECT COOLER REFRIGERANT LIQUID PIPE A

SST 09870-00025

HINT:

Disconnect cooler refrigerant liquid pipe A in the same way as the cooler refrigerant suction hose No. 1.



### 4. DISCONNECT HEATER OUTLET WATER HOSE

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

**5. DISCONNECT HEATER INLET WATER HOSE**

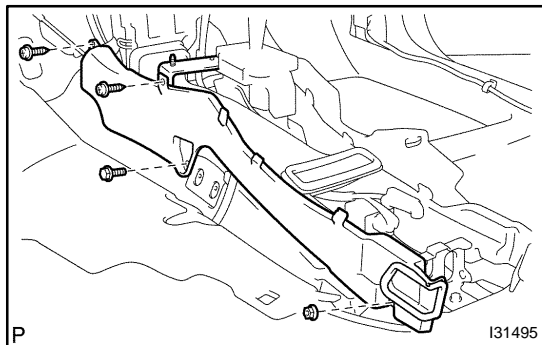
HINT:

Disconnect in the same way as the heater outlet water hose.

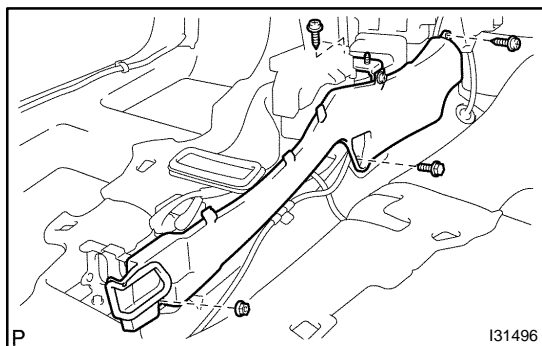
**6. REMOVE INSTRUMENT PANEL SAFETY PAD SUB-ASSY (See page 71-9)**

HINT:

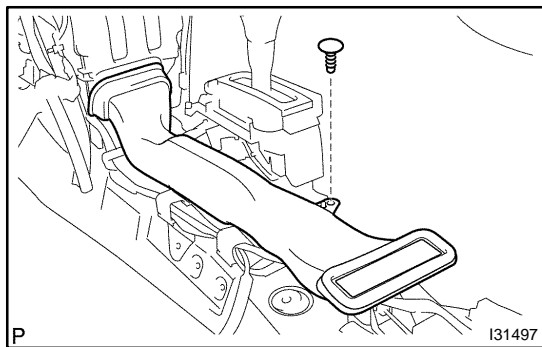
Refer to the instructions for removal of the instrument panel safety pad sub-assy.

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

- (a) Remove the 2 screws, bolt and nut.
- (b) Remove the air duct rear No. 1.

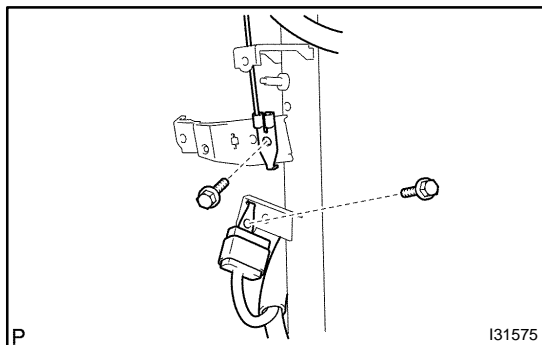
**8. REMOVE AIR DUCT REAR NO.2**

- (a) Remove the bolt and nut.
- (b) A/X models:  
Remove the 2 screws, air duct rear No. 2 and console box mounting bracket No. 1.
- (c) M/X models:  
Remove the screw, air duct rear No. 2 and console box mounting bracket No. 1.

**9. REMOVE CONSOLE BOX DUCT NO.1 (AUTO AIR CONDITIONING)**

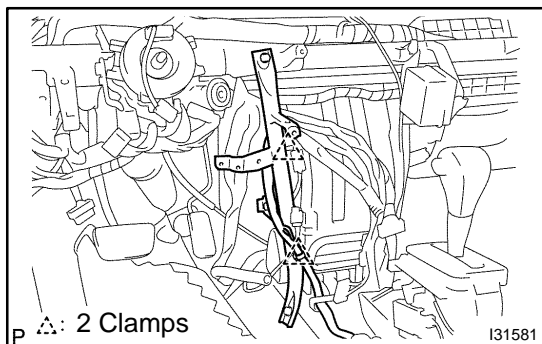
- (a) Remove the clip and console box duct No. 1.

**10. DISCONNECT FLOOR SHIFT PARKING LOCK CABLE ASSY****11. REMOVE WINDSHIELD WIPER RELAY ASSY**

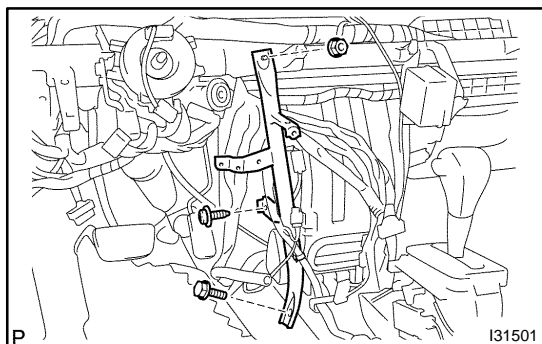


## 12. REMOVE INSTRUMENT PANEL BRACE SUB-ASSY NO.1

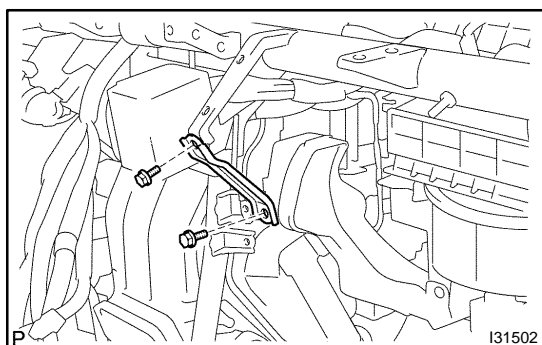
- (a) Remove the 2 bolts and 2 earth wires.



- (b) Release the 2 clamps.

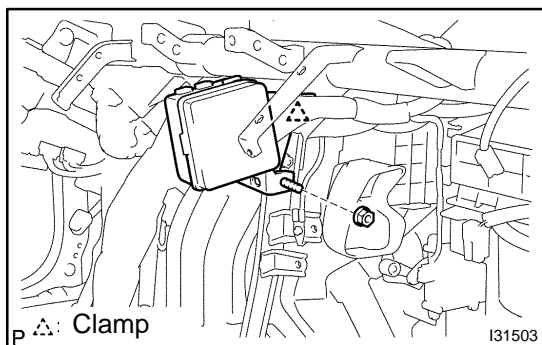


- (c) Remove the bolt and screw.  
(d) Remove the nut and instrument panel brace sub-assy No. 1.



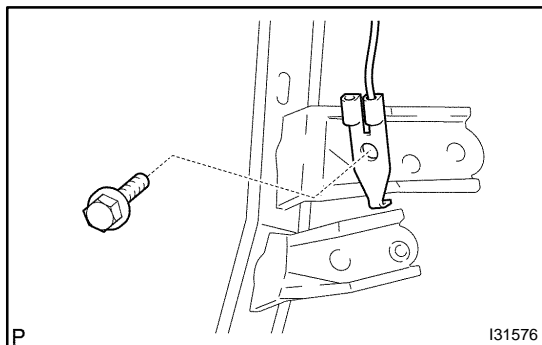
## 13. REMOVE INSTRUMENT FINISH PANEL RETAINER LOWER

- (a) Remove the 2 bolts and instrument finish retainer lower.

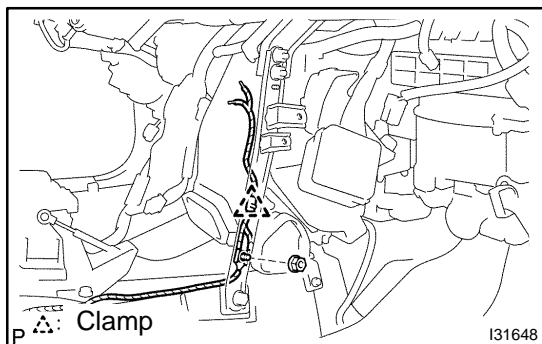


## 14. REMOVE INSTRUMENT PANEL BRACE SUB-ASSY NO.2

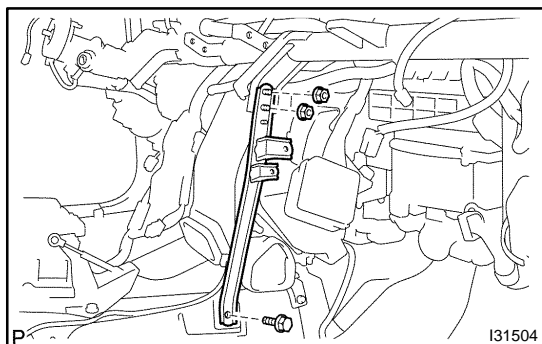
- (a) Remove the clamp, nut and passenger side junction block.



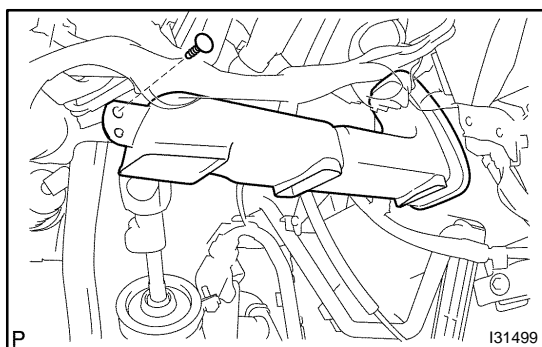
- (b) Remove the bolt and earth wire.



- (c) Remove the nut and clamp.

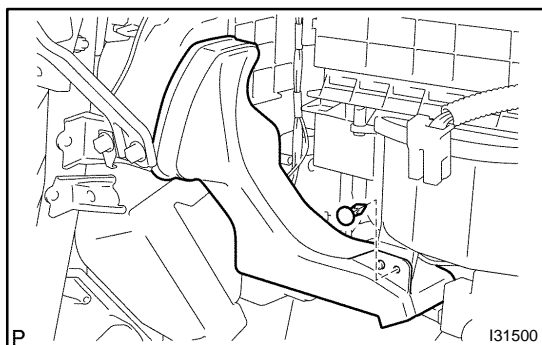


- (d) Remove the 2 nuts, bolt and instrument panel brace sub-assy No. 2.



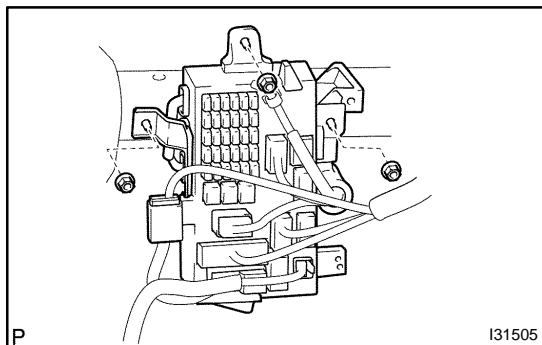
#### 15. REMOVE HEATER TO FOOT DUCT NO.3

- (a) Remove the clip and heater to foot duct No. 3.

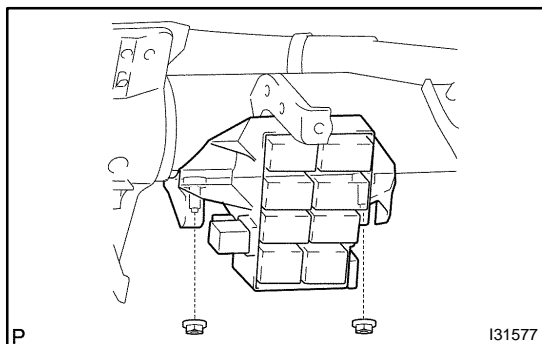


#### 16. REMOVE HEATER TO FOOT DUCT NO.1

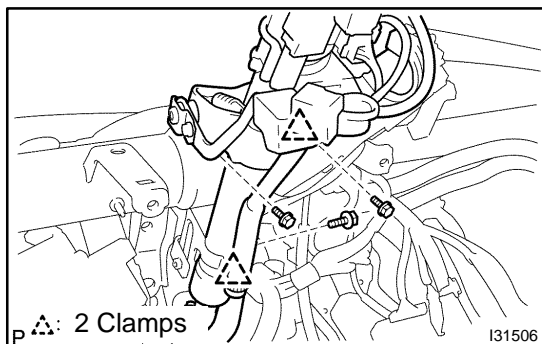
- (a) Remove the clip and heater to foot duct No. 1.

**17. DISCONNECT STEERING COLUMN ASSY**

- (a) Remove the 3 nuts and driver side junction block.



- (b) Remove the 2 nuts and steering side connector block.

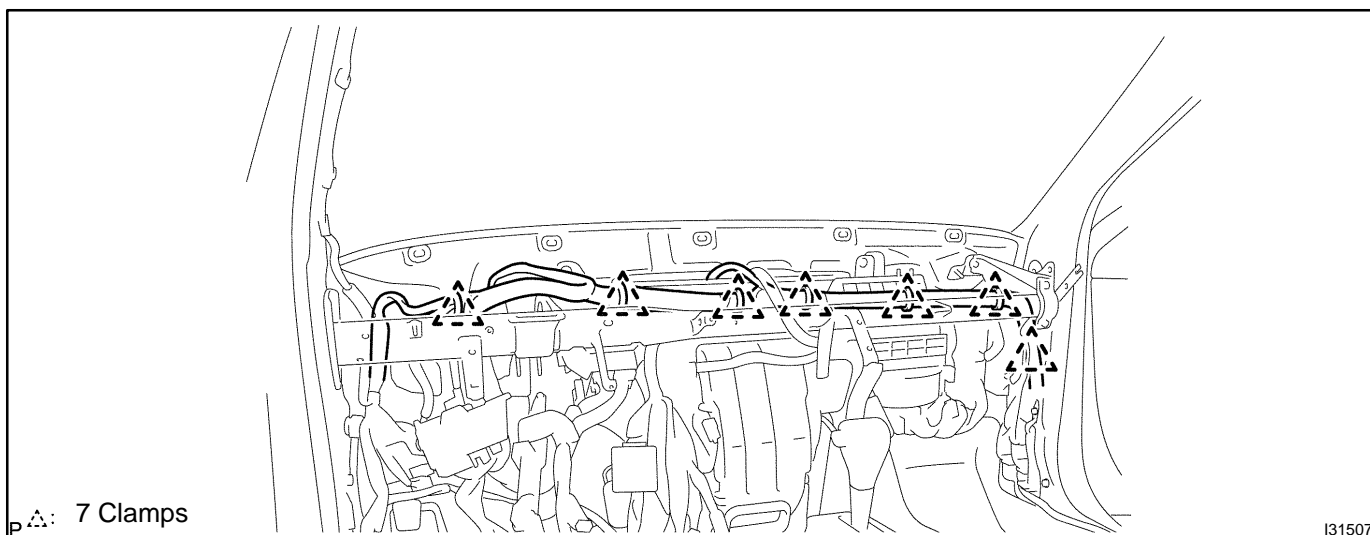


- (c) Release the 2 clamps.

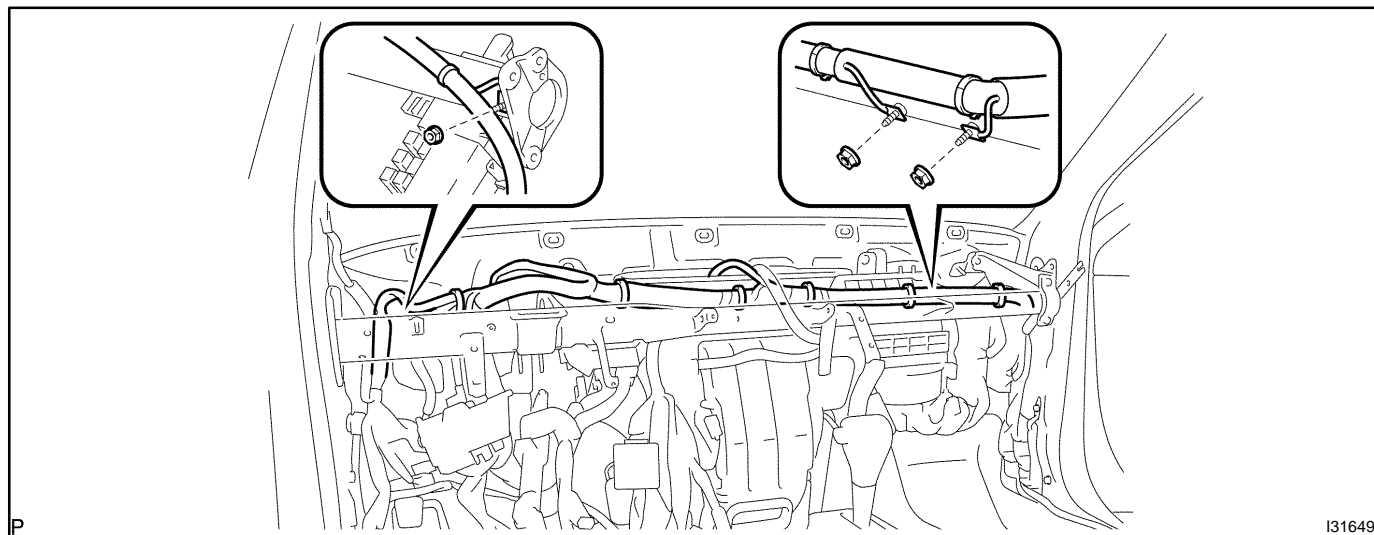
- (d) Remove the 3 bolts, disconnect the steering column assy.

**18. REMOVE INSTRUMENT PANEL REINFORCEMENT**

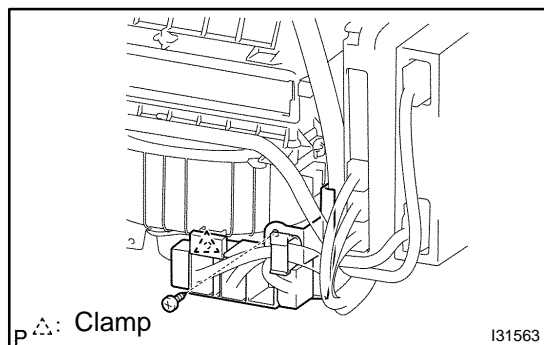
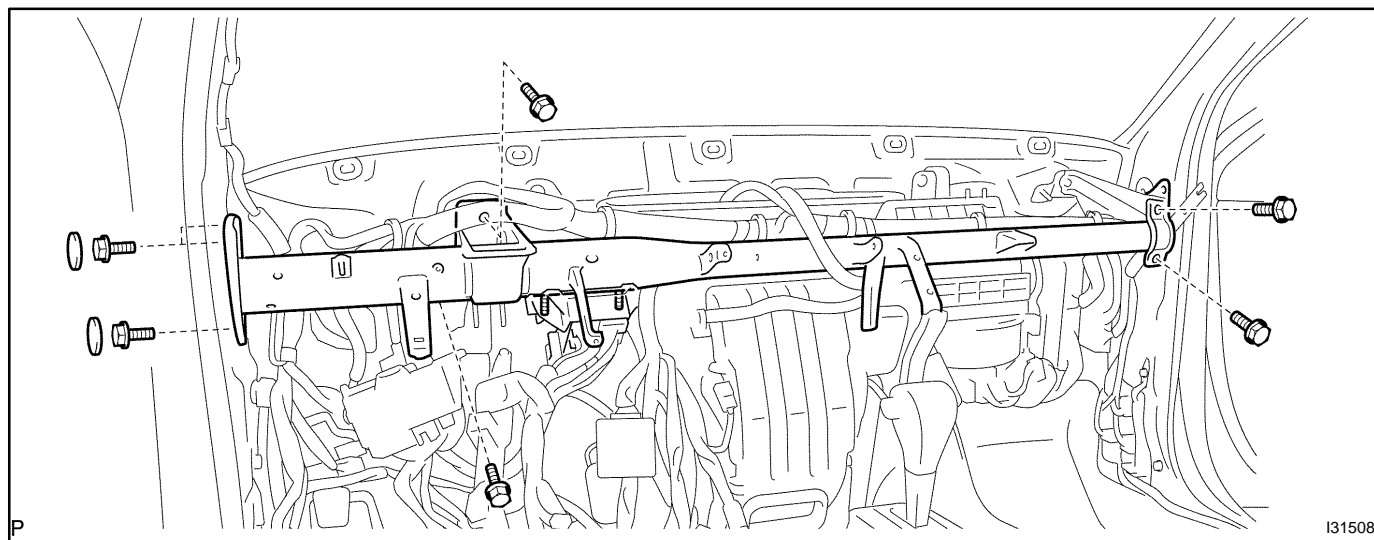
- (a) Disconnect the 7 clamps and the wire harness.



- (b) Remove the 3 nuts, disconnect the 3 earth wires.

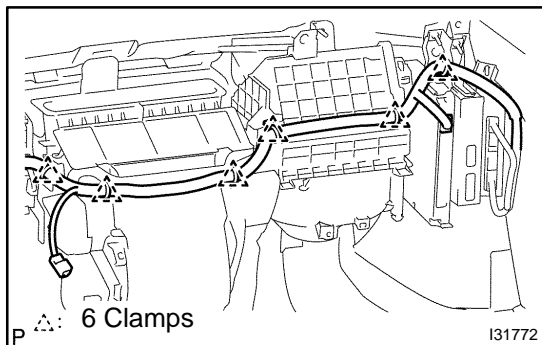


- (c) Remove the 3 caps, 7 bolts and instrument panel reinforcement.

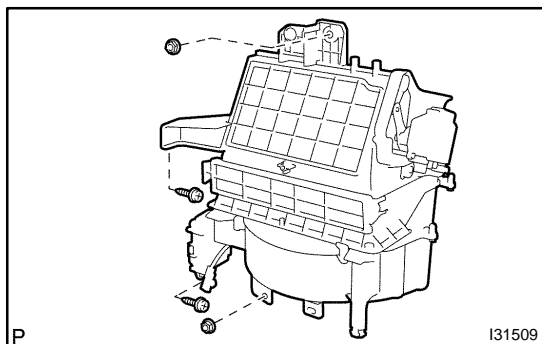


## 19. REMOVE BLOWER ASSY

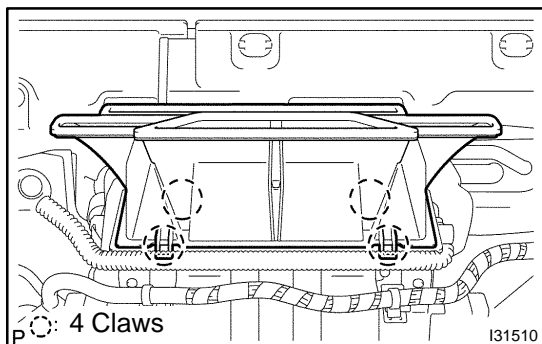
- (a) Disconnect the connectors.  
 (b) Remove the screw, clamp and blower connector holder.



- (c) Disconnect the 6 clamps and the wire harness.

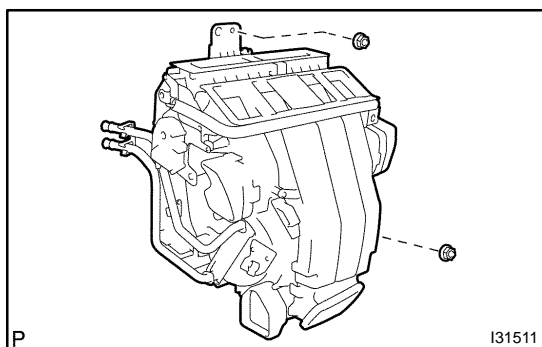


- (d) Remove the 2 screws, 2 nuts and blower assy.



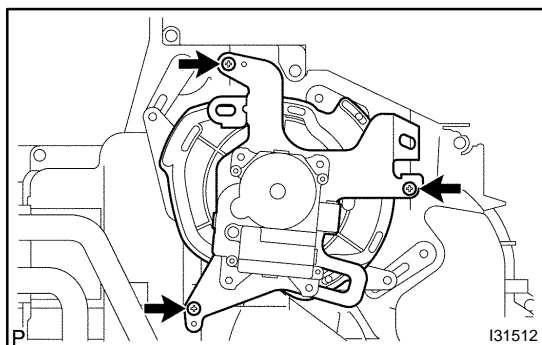
## 20. REMOVE DEFROSTER NOZZLE ASSY LOWER

- (a) Release the 4 fitting claws, remove the defroster nozzle assy lower.



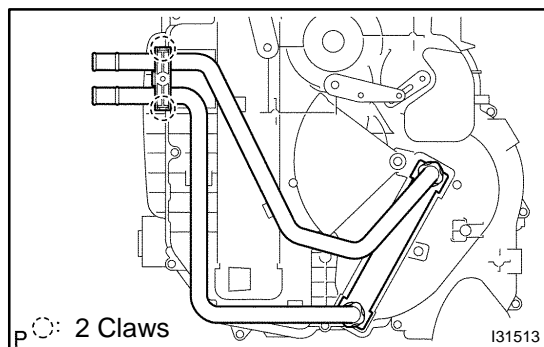
## 21. REMOVE AIR CONDITIONING RADIATOR ASSY

- (a) Disconnect the connectors.  
(b) Remove the 2 nuts and air conditioning radiator assy.



## 22. REMOVE MODE DAMPER SERVO SUB-ASSY

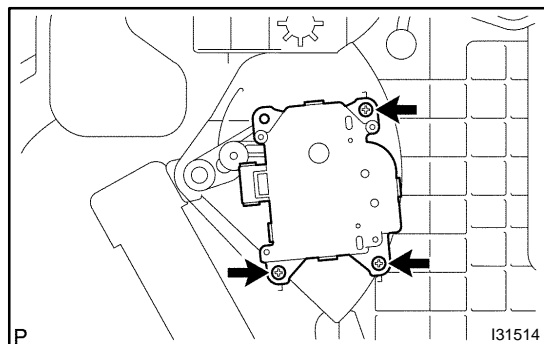
- (a) Remove the 3 screws and mode damper servo sub-assy.

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

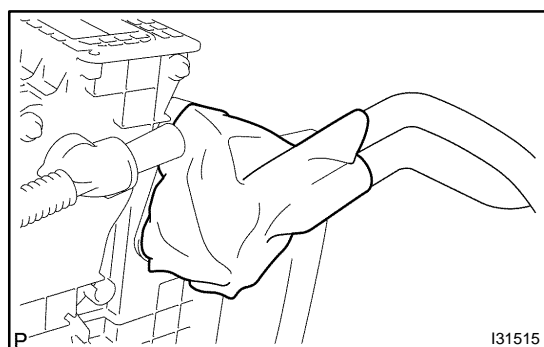
- (a) Release the 2 fitting claws, remove the piping clamp.
- (b) Remove the heater radiator unit sub-assy.

**NOTICE:**

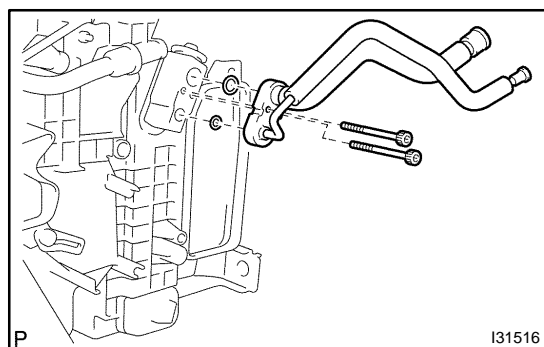
**Prepare a support plate and waste to catch the leaked coolant.**

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

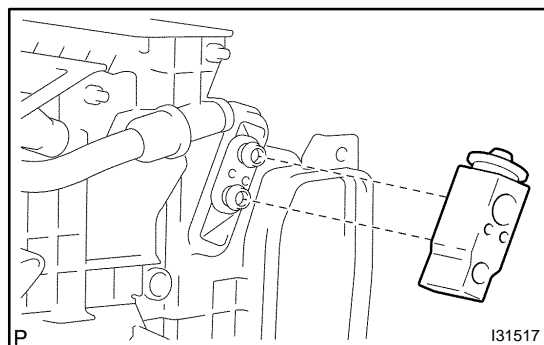
- (a) Remove the 3 screws and air mix damper servo sub-assy.

**25. REMOVE AIR CONDITIONING TUBE ASSY**

- (a) Remove the packing.

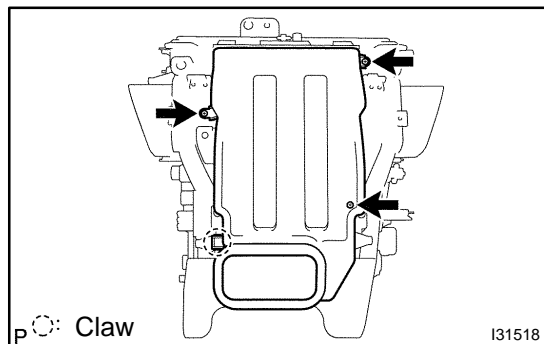


- (b) Using a hexagon wrench 4 mm (0.16 in.), remove the 2 hexagon bolts and air conditioning tube assy.
- (c) Remove the 2 O-rings from the air conditioning tube assy.

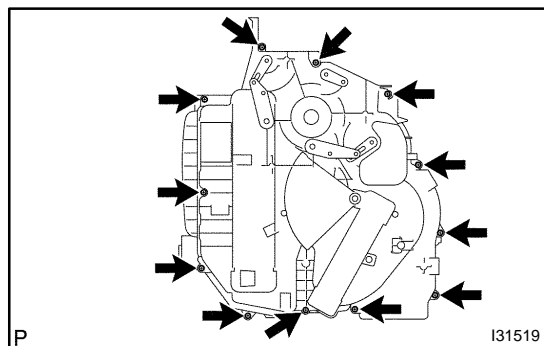
**26. REMOVE COOLER EXPANSION VALVE**

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

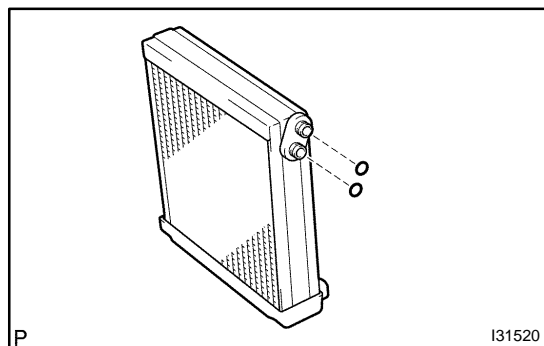


**27. REMOVE COOLER THERMISTOR NO.1****28. REMOVE COOLER EVAPORATOR SUB-ASSY NO.1**

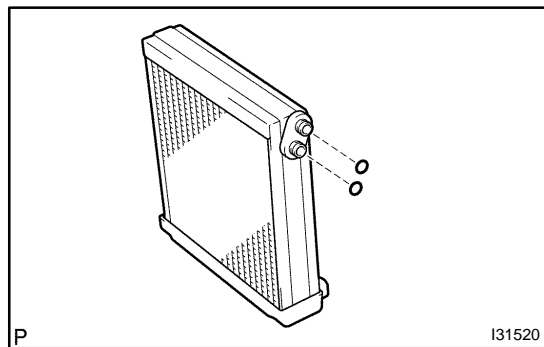
- (a) Auto A/C model:  
Release the fitting claw, remove the 3 screws and air duct sub-assy.



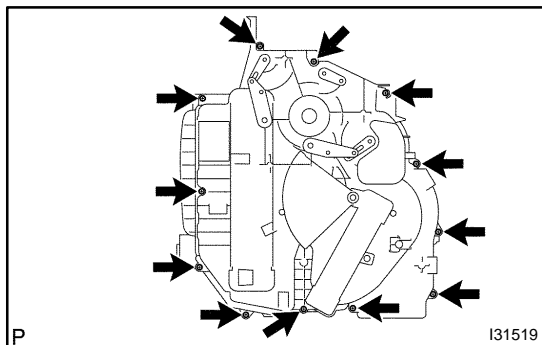
- (b) Remove the 12 screws and heater case LH.  
(c) Remove the cooler evaporator sub-assy No. 1 from the heater case RH.



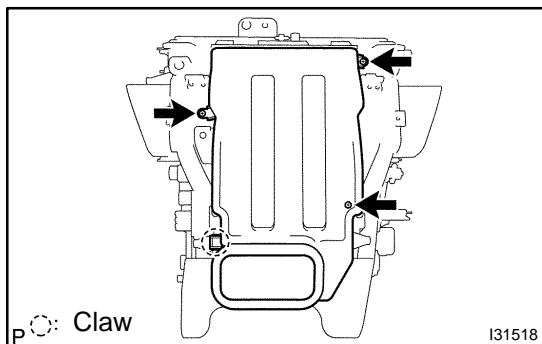
- (d) Remove the 2 O-rings from the cooler evaporator sub-assy No. 1.

**29. INSTALL COOLER EVAPORATOR SUB-ASSY NO.1**

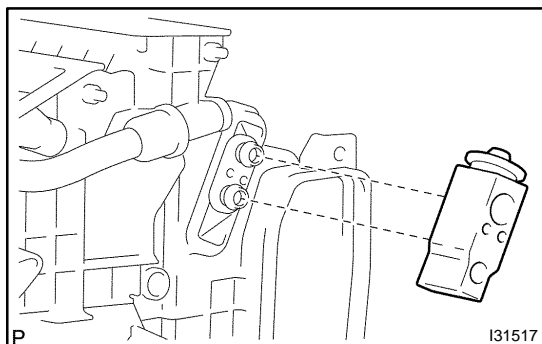
- (a) Apply compressor oil to the contact surfaces of 2 new O-rings and the cooler expansion valve and install them.  
**Compressor oil: ND-OIL 8 or equivalent**



- (b) Install the cooler evaporator sub-assy No. 1 to the heater case RH.
- (c) Install the heater case LH with the 12 screws.

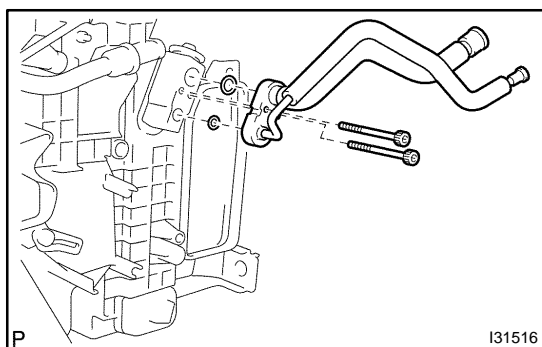


- (d) Auto A/C model:  
Install the air duct sub-assy with the 3 screws.



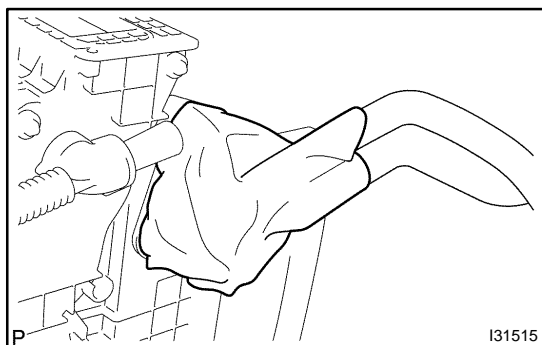
### 30. INSTALL COOLER EXPANSION VALVE

- (a) Install the cooler expansion valve to the cooler evaporator No. 1.

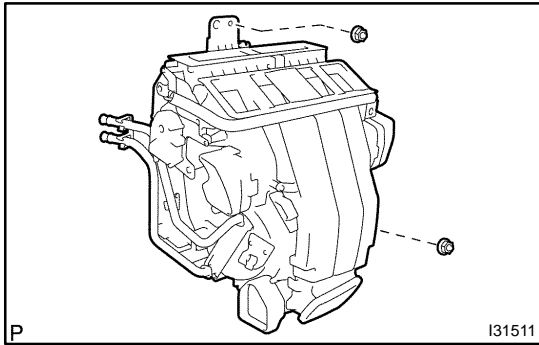


### 31. INSTALL AIR CONDITIONING TUBE ASSY

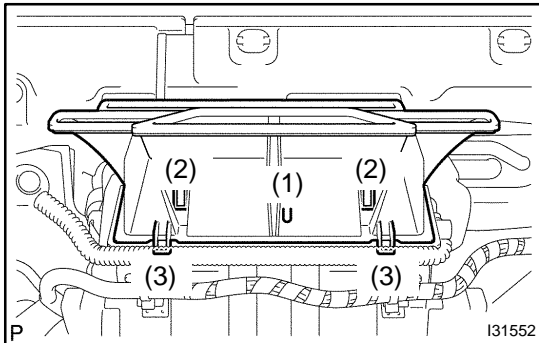
- (a) Apply compressor oil to the contact surfaces of 2 new O-rings and the air conditioning tube assy and install them.  
**Compressor oil: ND-OIL 8 or equivalent**
- (b) Using a hexagon wrench 4 mm (0.16 in.), install the air conditioner tube assy and 2 hexagon bolts to the cooler evaporator sub-assy No. 1.  
**Torque: 3.5 N·m (35 kgf·cm, 30 in.-lbf)**



- (c) Install the packing.  
**HINT:**  
Securely attach so that the gap in the packing will not be made.

**32. INSTALL AIR CONDITIONING RADIATOR ASSY**

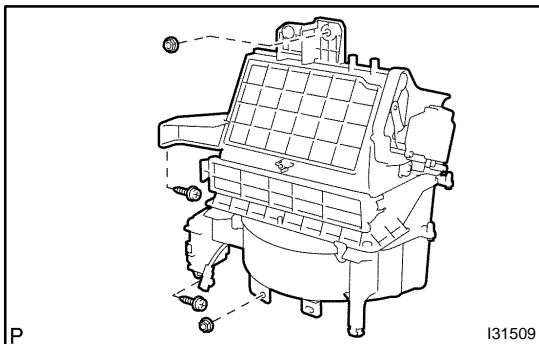
- (a) Install the air conditioning radiator assy with the 2 nuts.  
**Torque: 1.5 N·m (15 kgf·cm, 12 in.-lbf)**
- (b) Connect the connector.

**33. INSTALL DEFROSTER NOZZLE ASSY LOWER**

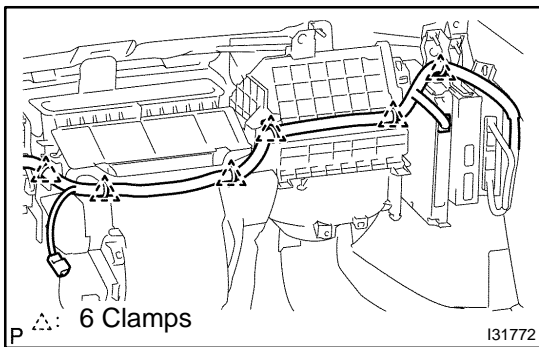
- (a) Install the defroster nozzle assy lower.

**NOTICE:**

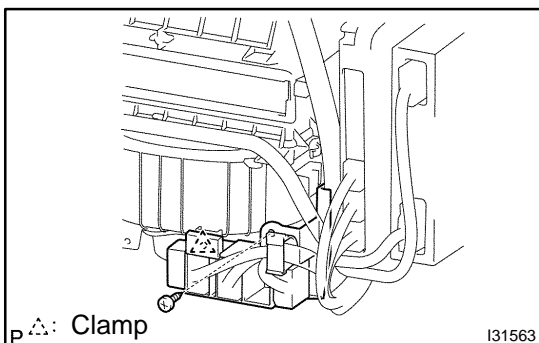
After locating the pin (1) in the illustration, install (2), then (3).

**34. INSTALL BLOWER ASSY**

- (a) Install the blower assy with the 2 screws and 2 nuts.  
**Torque: 1.5 N·m (15 kgf·cm, 12 in.-lbf)**



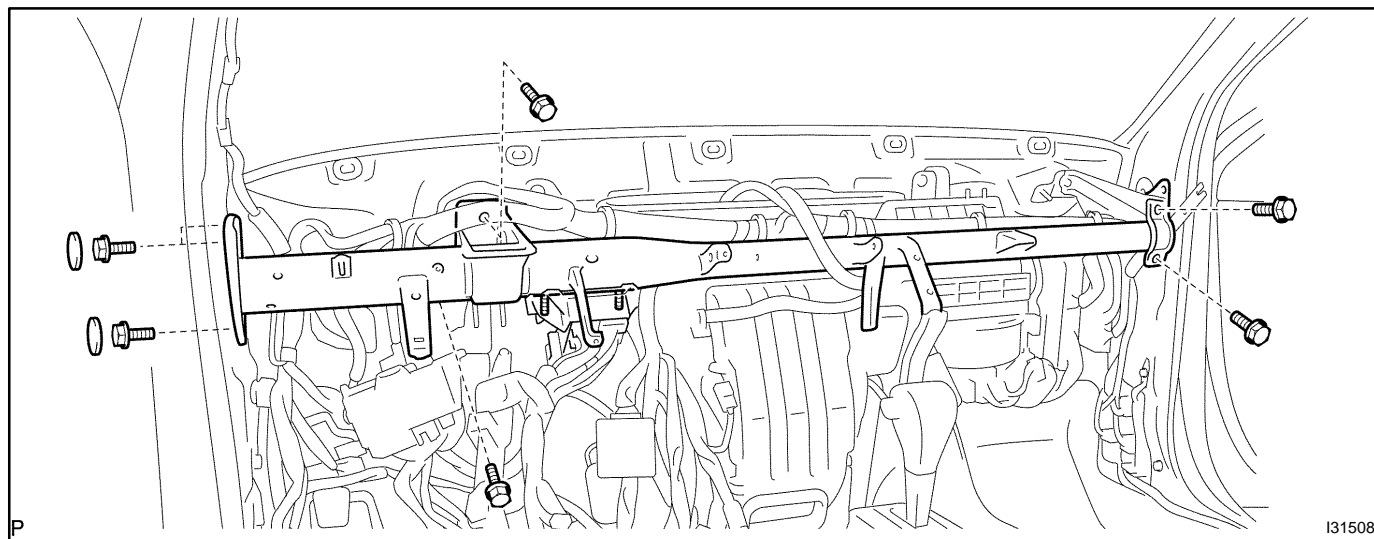
- (b) Install the 6 clamps, connect the wire harness.



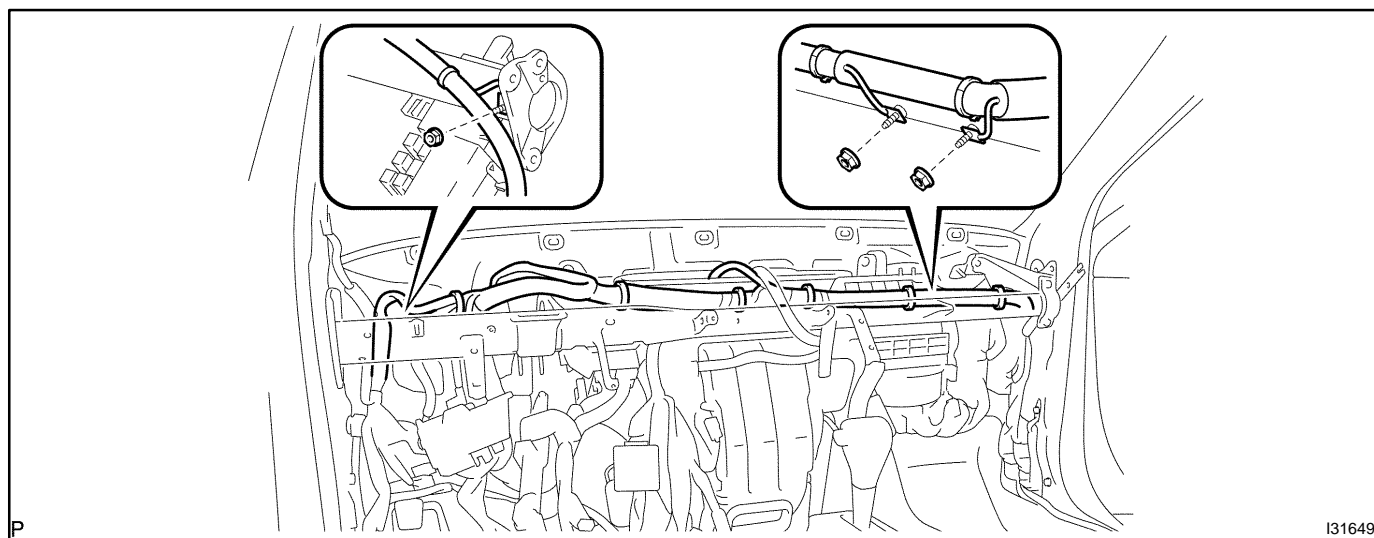
- (c) Install the blower connector holder with the screw and clamp.
- (d) Connect the connectors.

**35. INSTALL INSTRUMENT PANEL REINFORCEMENT**

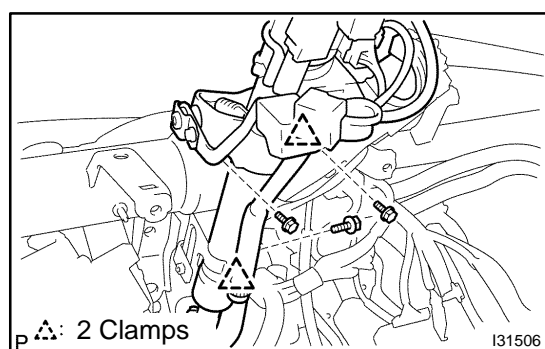
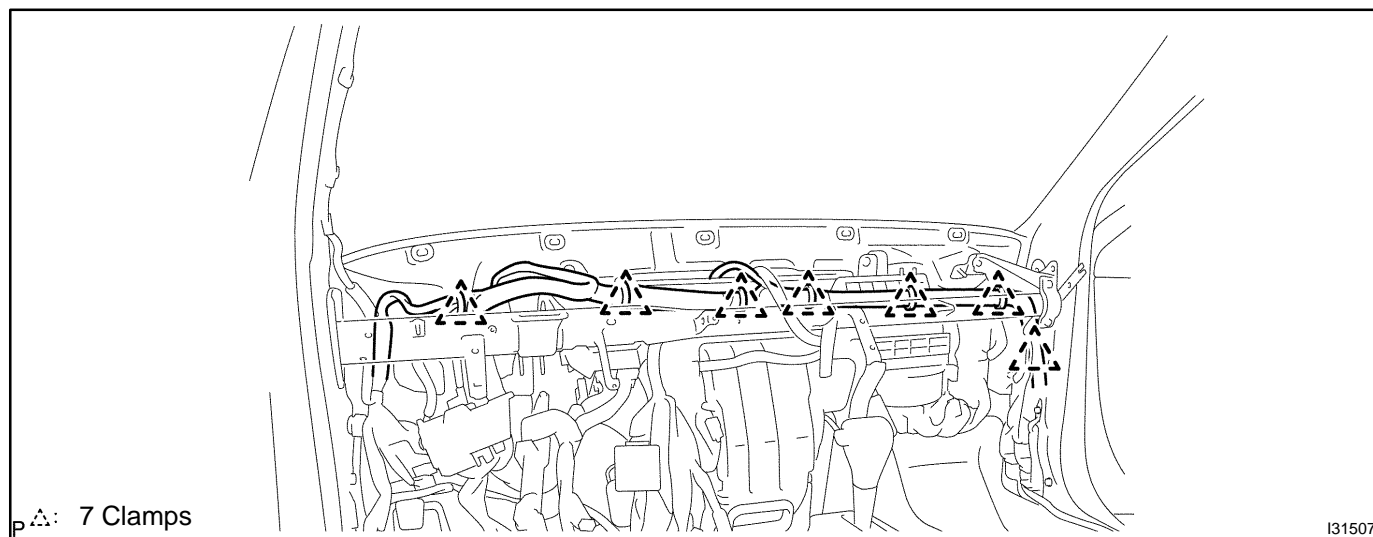
- (a) Install the instrument panel reinforcement with the 7 bolts and 3 caps.



- (b) Install the 3 earth wires with the 3 nuts.

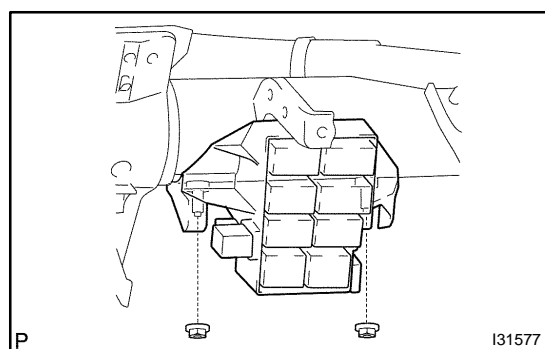


- (c) Install the 7 clamps, connect the wire harness.

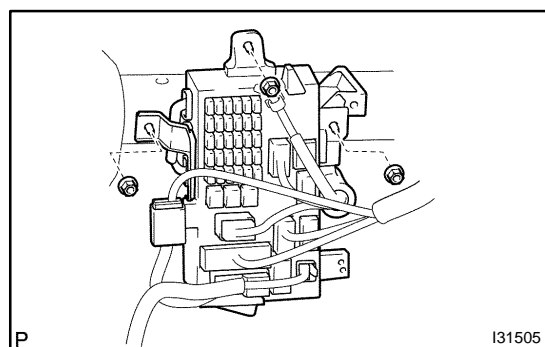


### 36. INSTALL STEERING COLUMN ASSY

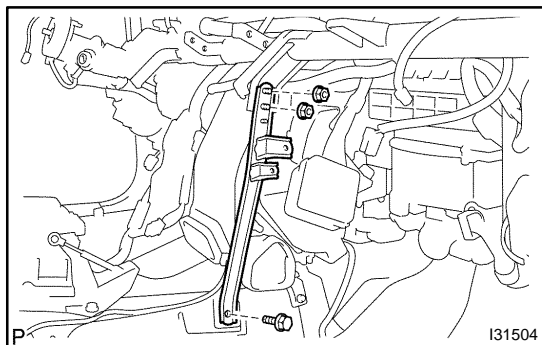
- (a) Install the steering column assy with the 3 bolts.  
 (b) Install the 2 clamps.



- (c) Install the steering side connector block with the 2 nuts.  
**Torque: 8.4 N·m (85 kgf·cm, 73 in·lbf)**

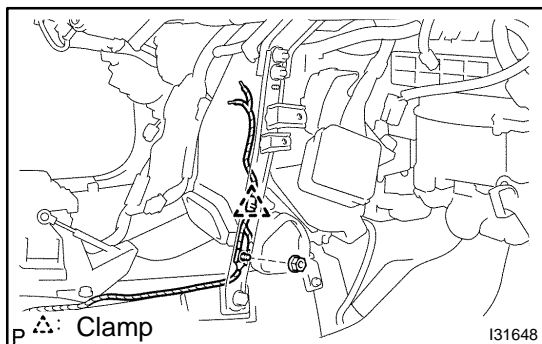


- (d) Install the driver side junction block with the 3 nuts.  
**Torque: 8.4 N·m (85 kgf·cm, 73 in·lbf)**

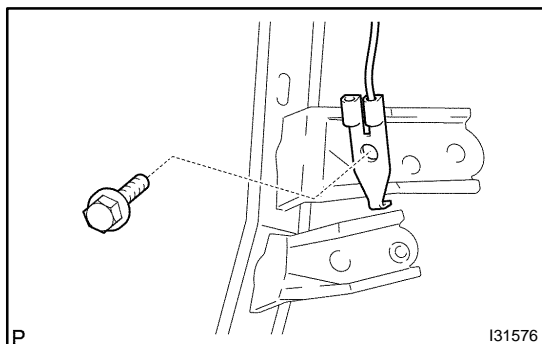


### 37. INSTALL INSTRUMENT PANEL BRACE SUB-ASSY NO.2

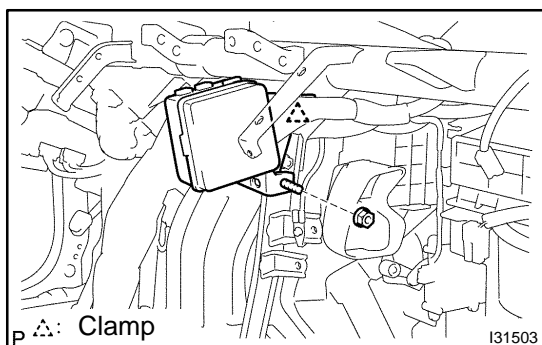
- (a) Install the instrument panel brace sub-assy No. 2 with the 2 nuts and bolt.



- (b) Install the nut and clamp.

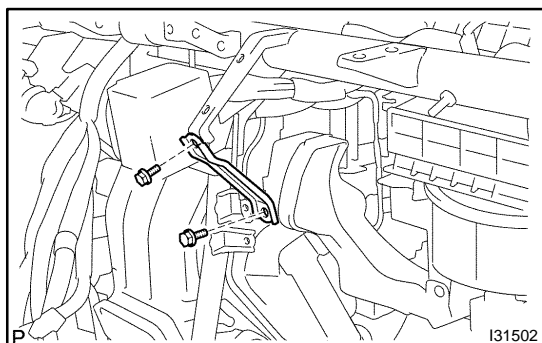


- (c) Install the earth wire with the bolt.



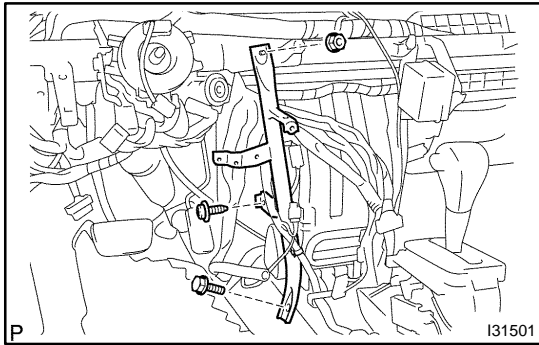
- (d) Install the passenger side junction block with the nut and clamp.

**Torque: 8.4 N·m (85 kgf·cm, 73 in.-lbf)**



### 38. INSTALL INSTRUMENT FINISH PANEL RETAINER LOWER

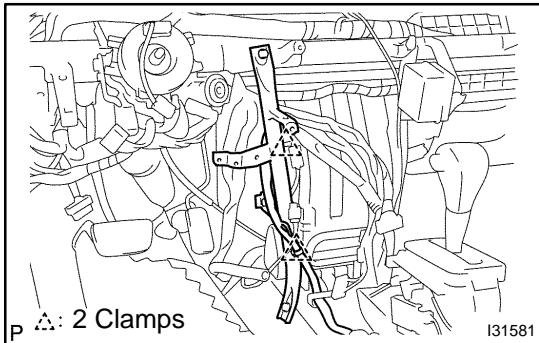
- (a) Install the instrument finish panel retainer lower with the 2 bolts.



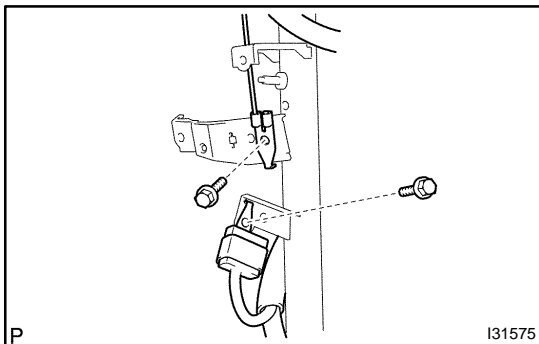
### 39. INSTALL INSTRUMENT PANEL BRACE SUB-ASSY NO.1

- (a) Install the instrument panel brace sub-assy No. 1 with the nut.
- (b) Install the bolt and screw.

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

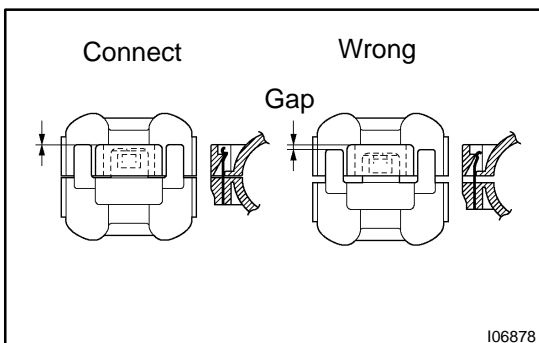


- (c) Install the 2 clamps.



- (d) Install the 2 earth wires with the 2 bolts.

### 40. INSTALL INSTRUMENT PANEL SAFETY PAD SUB-ASSY (See page 71-9)



### 41. INSTALL COOLER REFRIGERANT SUCTION HOSE NO.1

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

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

- (b) Install the cooler refrigerant suction hose No.1 and piping clamp.

**HINT:**

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

### 42. INSTALL COOLER REFRIGERANT LIQUID PIPE A

**HINT:**

Install in the same way as the cooler refrigerant suction hose No. 1.

**43. ADD COOLANT****3MZ-FE:** (See page [16-27](#))**1MZ-FE:** (See page [16-27](#))**2AZ-FE:** (See page [16-6](#))**44. CHARGE REFRIGERANT (See page [55-22](#))****SST** 07110-58060 (07117-58060, 07117-58070, 07117-58080, 07117-58090, 07117-78050, 07117-88060, 07117-88070, 07117-88080)**Specified amount:** 550 ± 50 g (19.37 ± 1.76 oz.)**45. WARM UP ENGINE****46. CHECK FOR ENGINE COOLANT LEAKS****3MZ-FE:** (See page [16-27](#))**1MZ-FE:** (See page [16-27](#))**2AZ-FE:** (See page [16-6](#))**47. INSPECT LEAKAGE OF REFRIGERANT (See page [55-22](#))**