

OVERHAUL

HINT:

COMPONENTS: [See page 55-17](#)

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

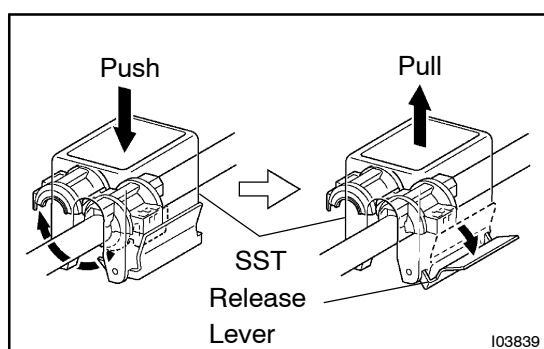
SST 07110-58060 (07117-58080, 07117-58090, 07117-78050, 07117-88060, 07117-88070, 07117-88080)

2. DISCONNECT COOLER REFRIGERANT SUCTION HOSE NO.1(LHD STEERING POSITION TYPE)

- (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.

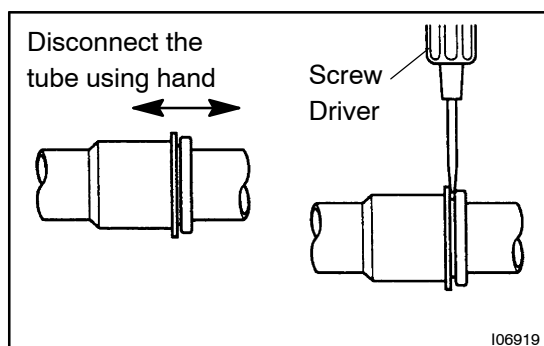


- (b) Push down SST and release the clamp lock.

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 SUCTION PIPE NO.1(RHD STEERING POSITION TYPE)

SST 09870-00015

HINT:

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

4. DISCONNECT COOLER REFRIGERANT LIQUID PIPE A(LHD STEERING POSITION TYPE)

SST 09870-00025

HINT:

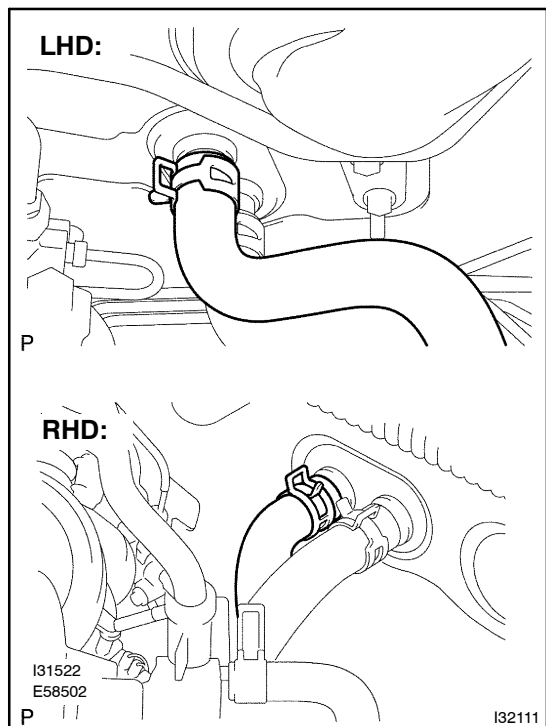
Disconnect cooler refrigerant liquid pipe A in the same way as the cooler refrigerant suction hose No. 1.

5. DISCONNECT COOLER REFRIGERANT LIQUID PIPE (RHD STEERING POSITION TYPE)

SST 09870-00025

HINT:

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

**6. DISCONNECT HEATER OUTLET WATER HOSE**

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

7. DISCONNECT HEATER INLET WATER HOSE

HINT:

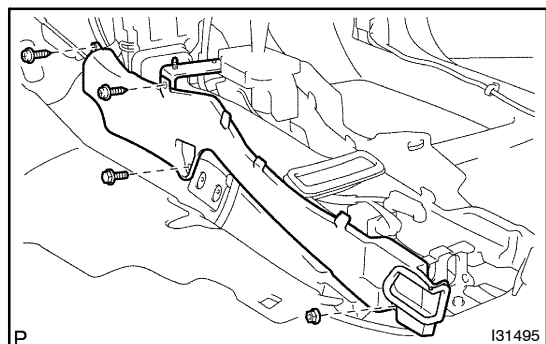
Disconnect in the same way as the heater outlet water hose.

8. DISCONNECT FLOOR SHIFT PARKING LOCK CABLE ASSY**9. REMOVE INSTRUMENT PANEL SAFETY PAD SUB-ASSY**

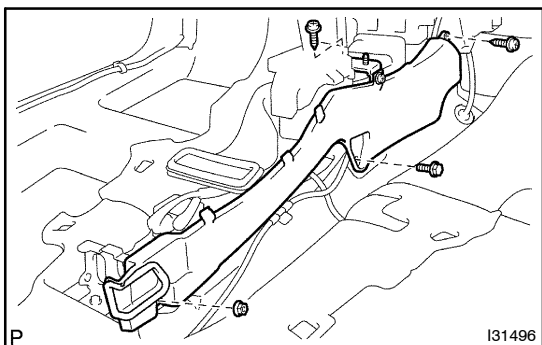
(See page 71-10)

HINT:

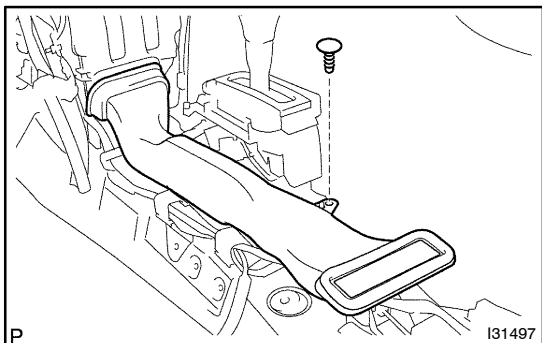
Refer to the instructions for removal of the instrument panel safety pad sub-assy.

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

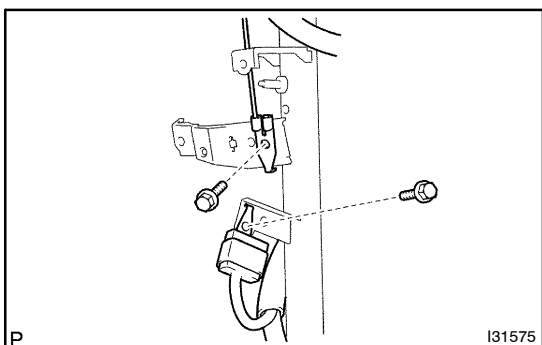
- (a) Remove the 2 screws, bolt and nut.
(b) Remove the air duct rear No. 1.

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

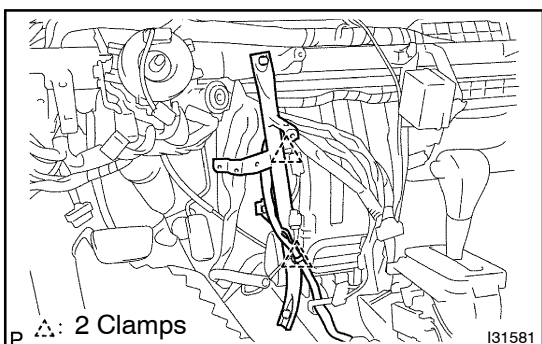
- (a) Remove the bolt and nut.
- (b) A/X models:
Remove the 2 screws, air duct rear No. 2 and console box mounting bracket No. 1.
- (c) M/X models:
Remove the screw, air duct rear No. 2 and console box mounting bracket No. 1.

**12. REMOVE CONSOLE BOX DUCT NO.1(A/T TRANSAXLE)**

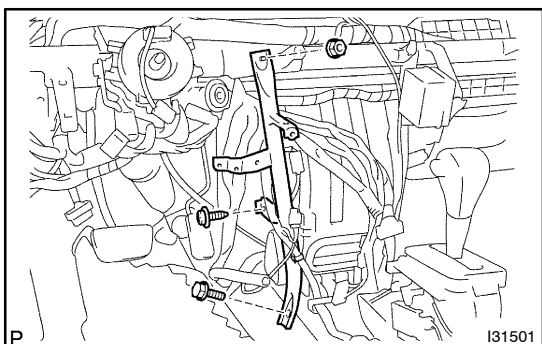
- (a) Remove the clip and console box duct No. 1.

**13. REMOVE INSTRUMENT PANEL BRACE SUB-ASSY NO.1**

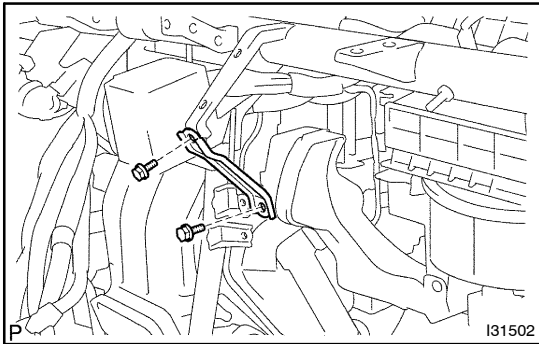
- (a) Remove the 2 bolts and 2 earth wires.



- (b) Release the 2 clamps.

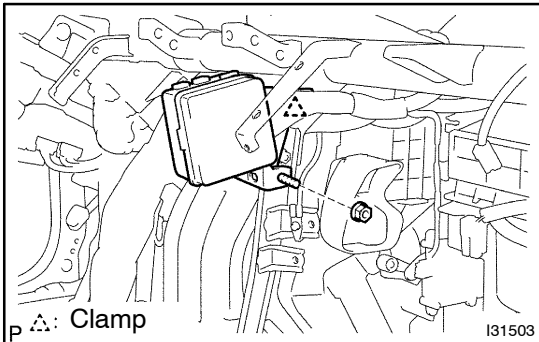


- (c) Remove the bolt and screw.
- (d) Remove the nut and instrument panel brace sub-assy No. 1.



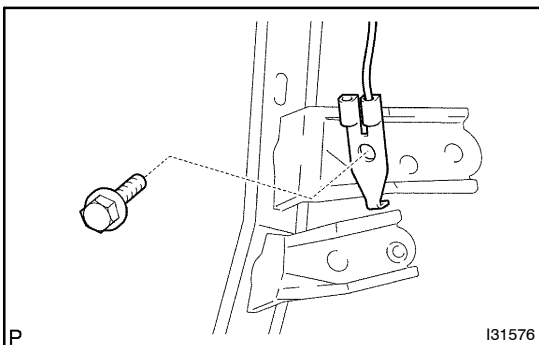
14. REMOVE INSTRUMENT FINISH PANEL RETAINER LOWER

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

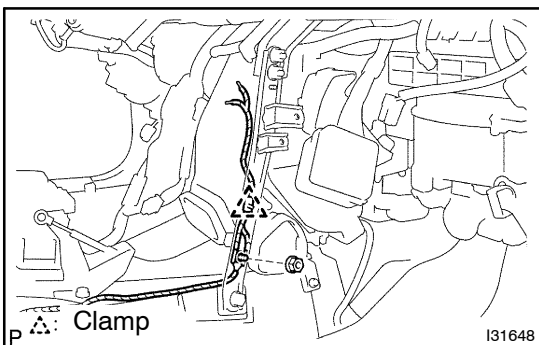


15. REMOVE INSTRUMENT PANEL BRACE SUB-ASSY NO.2

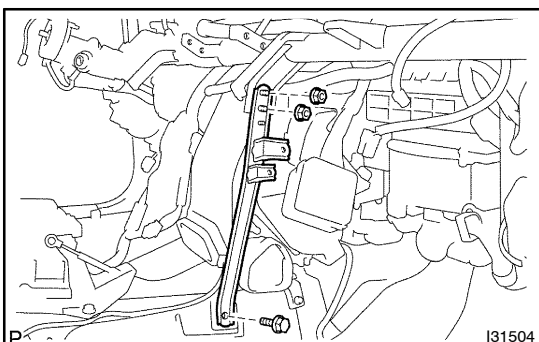
- (a) Remove the clamp, nut and passenger side junction block.



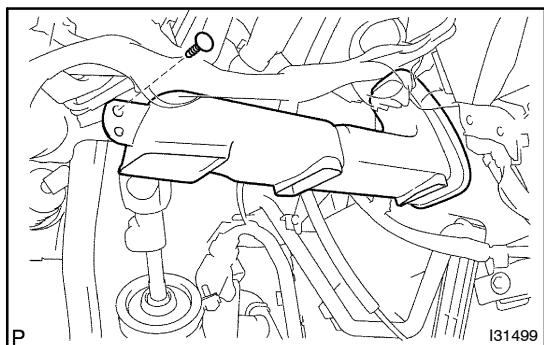
- (b) Remove the bolt and earth wire.



- (c) Release the nut and clamp.

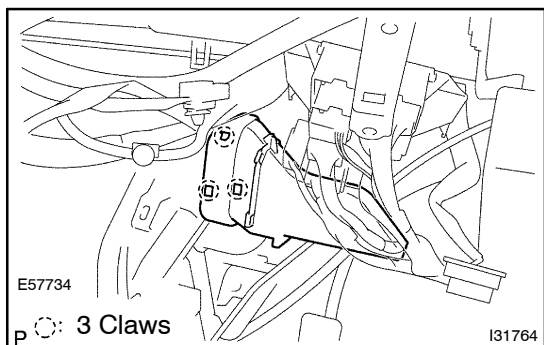


- (d) Remove the 2 nuts, bolt and instrument panel brace sub-assy No. 2.



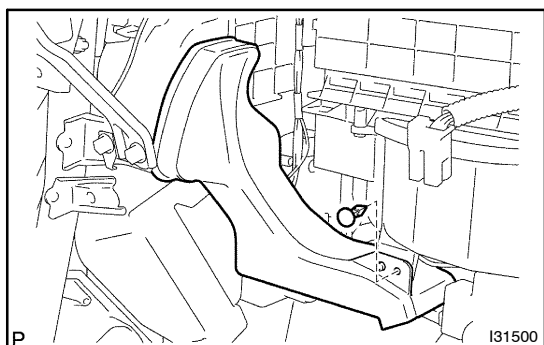
16. REMOVE HEATER TO FOOT DUCT NO.3(LHD STEERING POSITION TYPE)

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



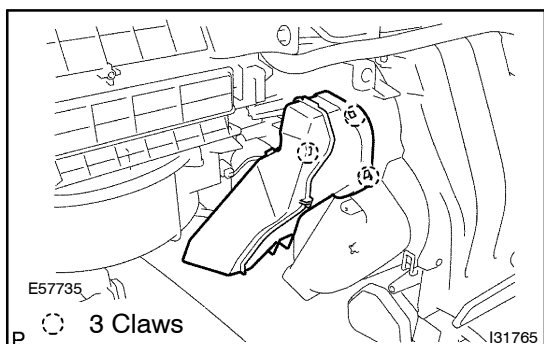
17. REMOVE AIR DUCT SUB-ASSY NO.1(RHD STEERING POSITION TYPE)

- (a) Release the 3 fitting claws, remove the air duct sub-assy No. 1.



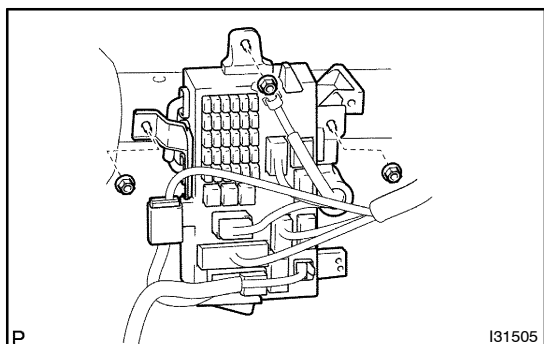
18. REMOVE HEATER TO FOOT DUCT NO.1(LHD STEERING POSITION TYPE)

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



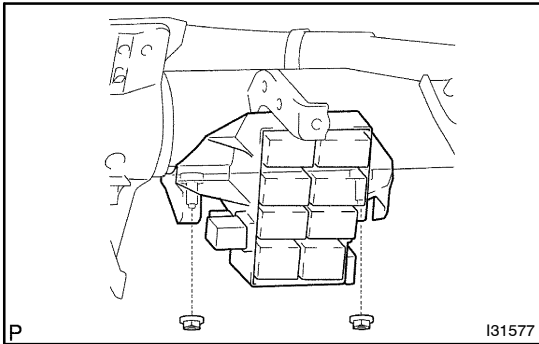
19. REMOVE AIR DUCT SUB-ASSY NO.2(RHD STEERING POSITION TYPE)

- (a) Release the 3 fitting claws, remove the air duct sub-assy No. 2.

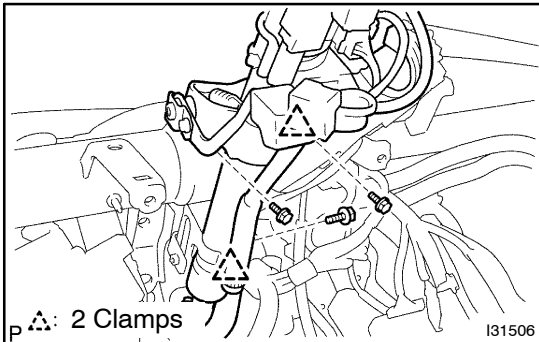


20. DISCONNECT STEERING COLUMN ASSY

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



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

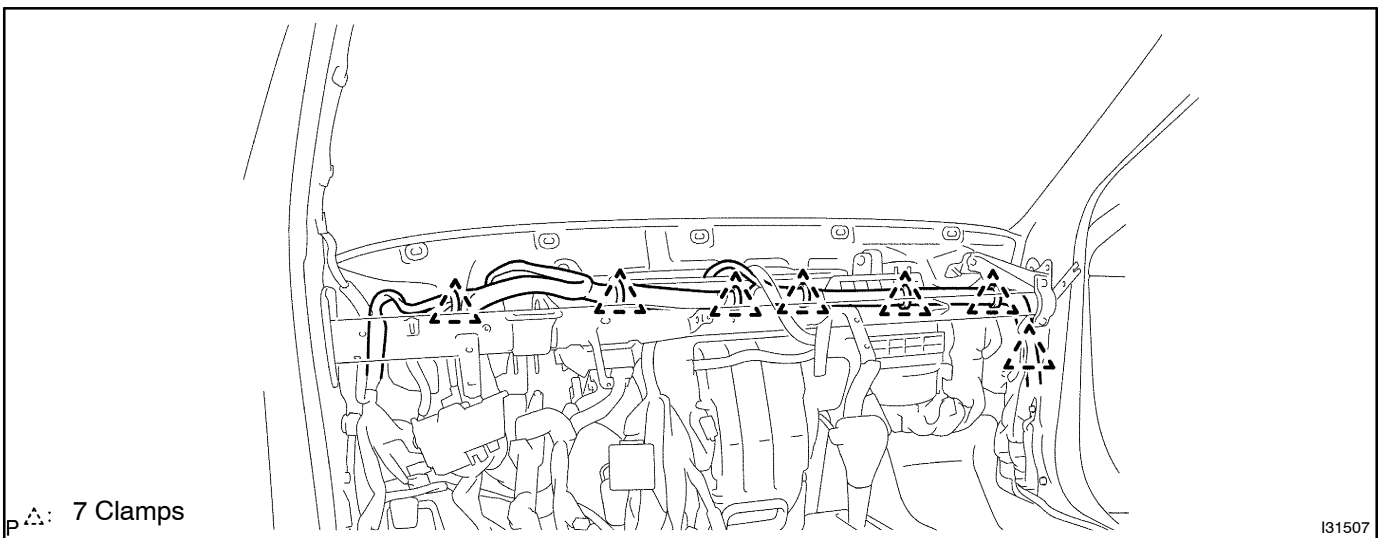


(c) Release the 2 clamps.

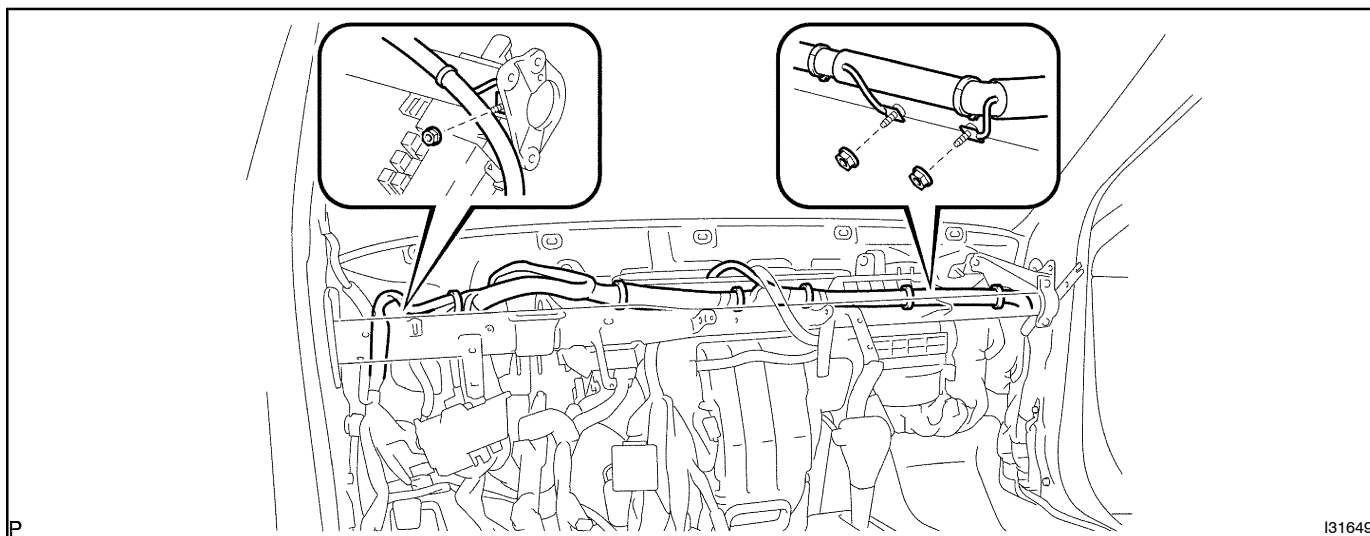
(d) Remove the 3 bolts, disconnect the steering column assy.

21. REMOVE INSTRUMENT PANEL REINFORCEMENT

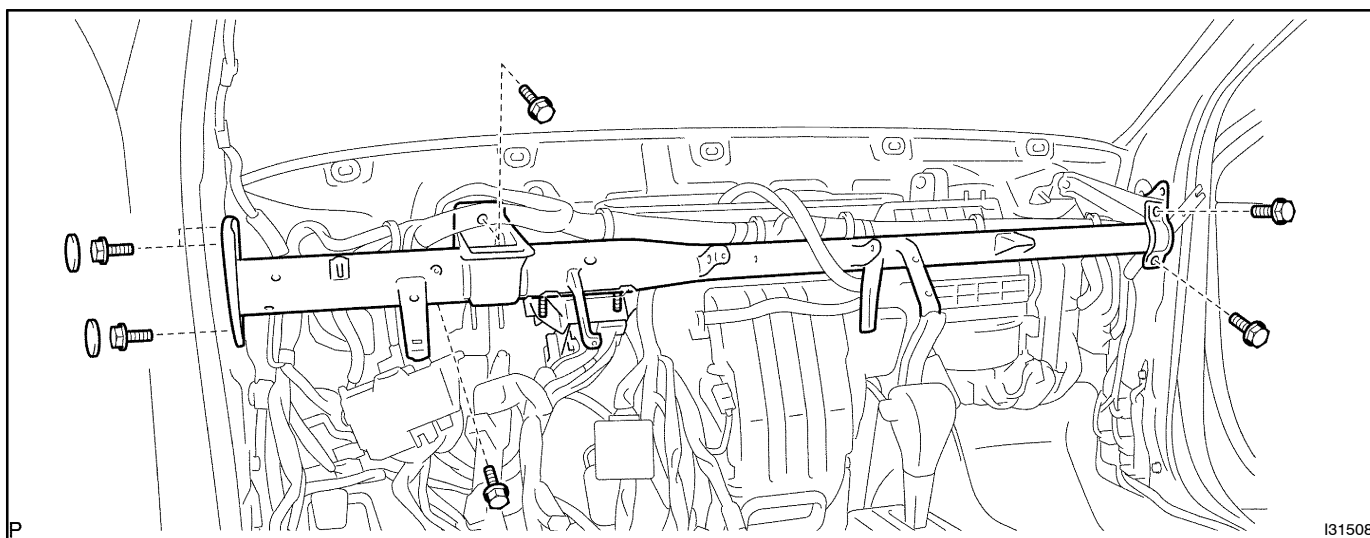
(a) Disconnect the 7 clamps and the wire harness.



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

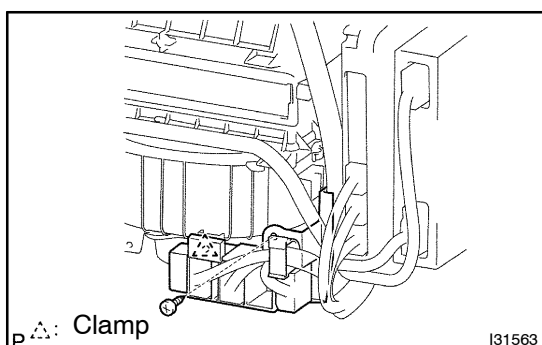


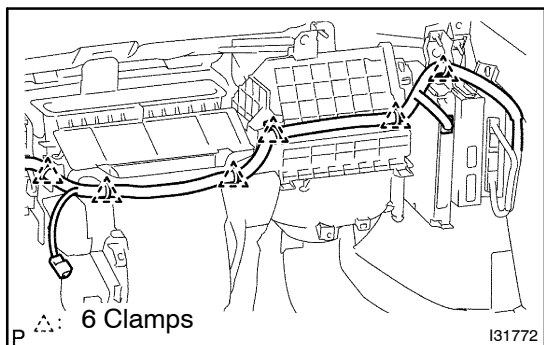
- (c) Remove the 3 caps, 7 bolts and instrument panel reinforcement.



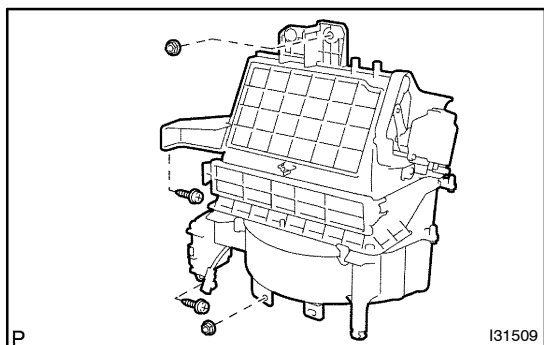
22. REMOVE BLOWER ASSY

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

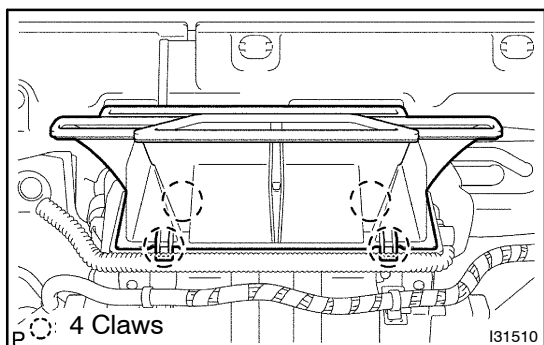




- (c) Disconnect the 6 clamps and the wire harness.

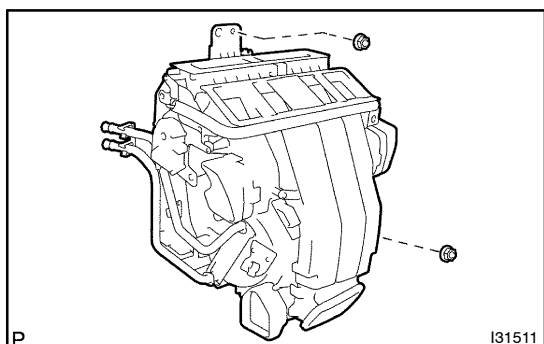


- (d) Remove the 2 screws, 2 nuts and blower assy.



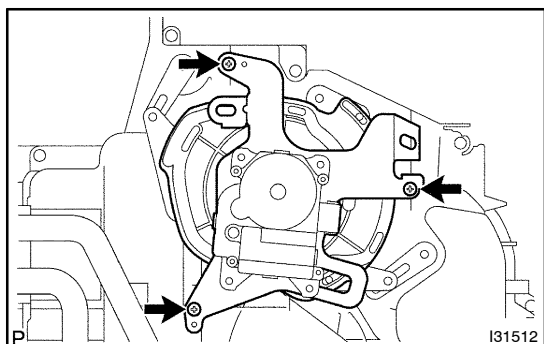
23. REMOVE DEFROSTER NOZZLE ASSY LOWER

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



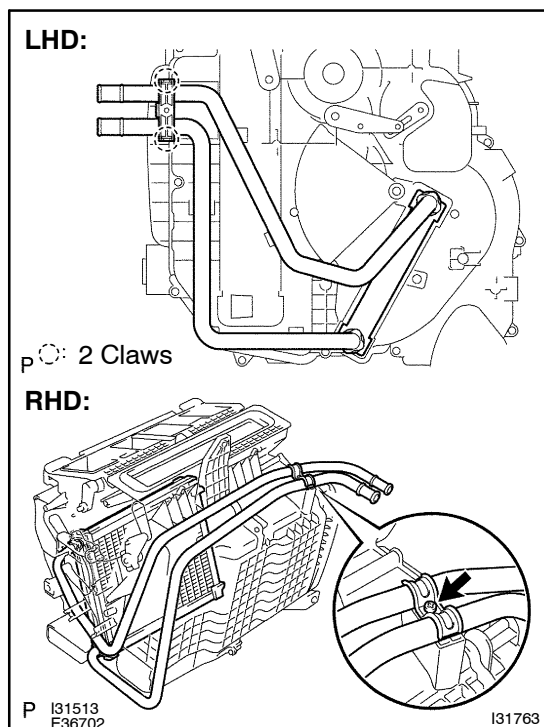
24. REMOVE AIR CONDITIONING RADIATOR ASSY

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



25. REMOVE MODE DAMPER SERVO SUB-ASSY

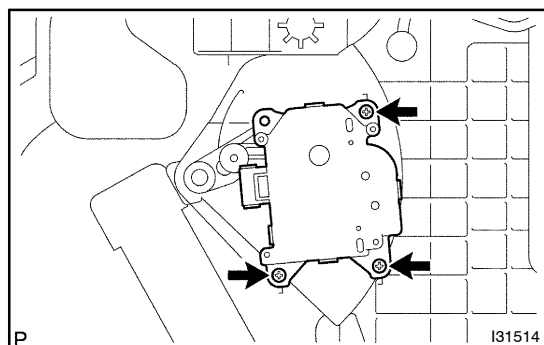
- (a) Remove the 3 screws and mode damper servo sub-assy.

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

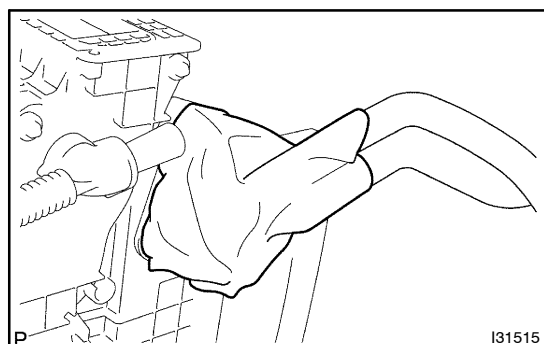
- (a) LHD:
Release the 2 fitting claws, remove the piping clamp.
- (b) RHD:
Remove the screw and clamp.
- (c) Remove the heater radiator unit sub-assy.

NOTICE:

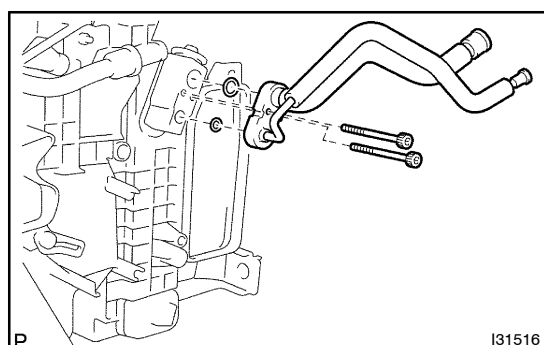
Prepare a support plate and waste to catch the leaked coolant.

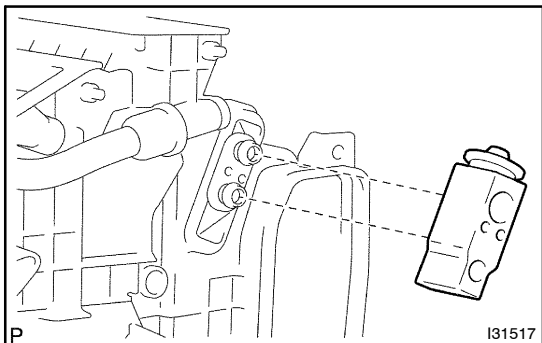
**27. REMOVE AIRMIX DAMPER SERVO SUB-ASSY**

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

**28. 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.

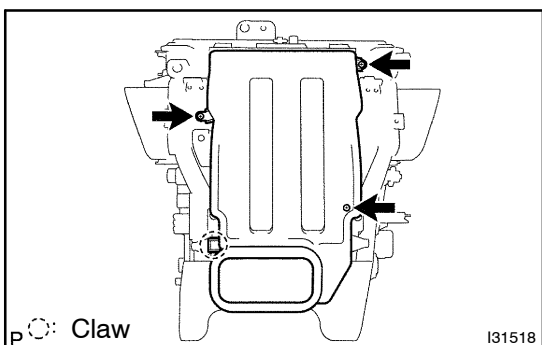




29. REMOVE COOLER EXPANSION VALVE

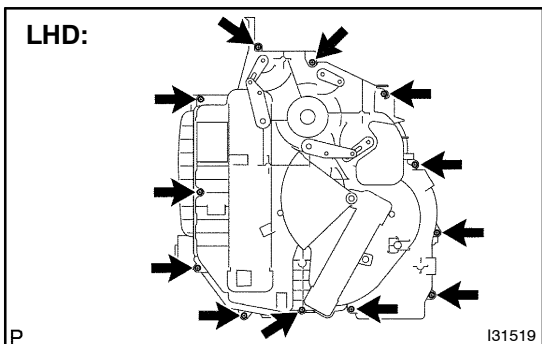
- (a) Remove the cooler expansion valve from the cooler evaporator sub-assy No. 1.

30. REMOVE COOLER THERMISTOR NO.1

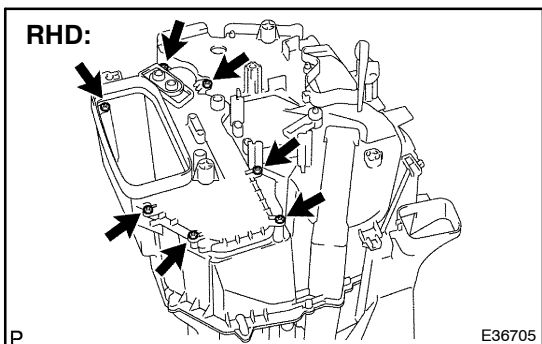


31. REMOVE COOLER EVAPORATOR SUB-ASSY NO.1

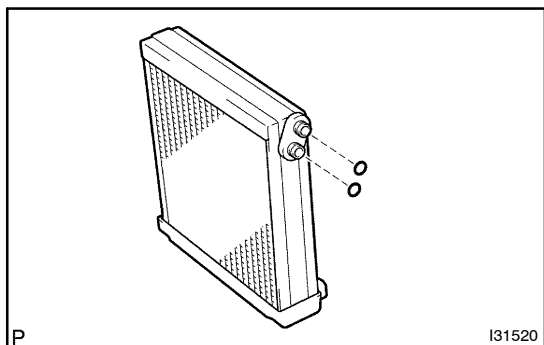
- (a) A/X models:
Release the fitting claw, remove the 3 screws and air duct sub-assy.



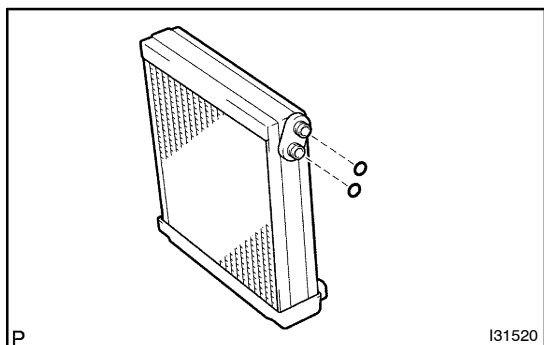
- (b) LHD:
Remove the 12 screws and heater case LH.
- (c) LHD:
Remove the cooler evaporator sub-assy No. 1 from the heater case RH.



- (d) RHD:
Remove the 7 screws and cover.
- (e) RHD:
Remove the cooler evaporator sub-assy No. 1 from the air conditioning radiator assy.

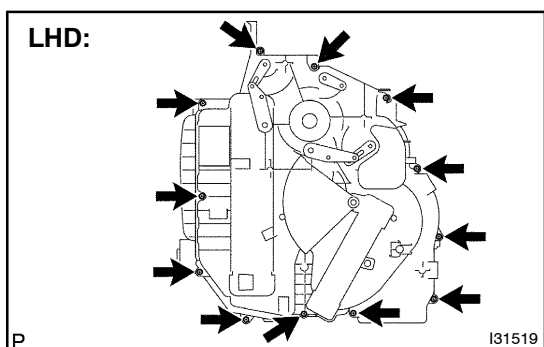


- (f) Remove the 2 O-rings from the cooler evaporator sub-assy No. 1.

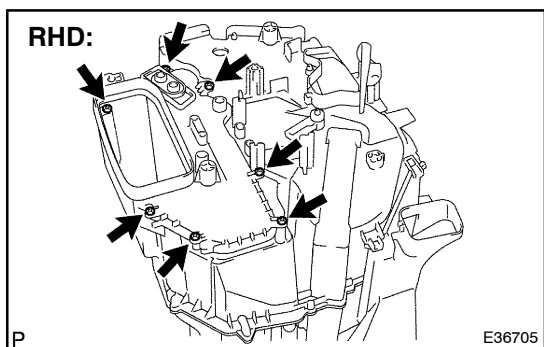


32. INSTALL COOLER EVAPORATOR SUB-ASSY NO.1

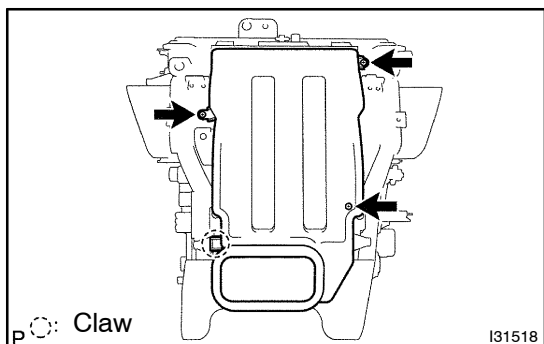
- (a) Apply compressor oil to the contact surfaces of 2 new O-rings and the cooler expansion valve and install them.
Compressor oil: ND-OIL 8 or equivalent



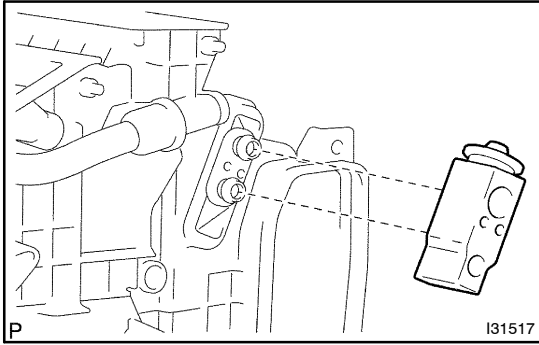
- (b) LHD:
Install the cooler evaporator sub-assy No. 1 to the heater case RH.
- (c) LHD:
Install the heater case LH with the 12 screws.



- (d) RHD:
Install the cooler evaporator sub-assy No. 1 to the air conditioning radiator assy.
- (e) RHD:
Install the cover with the 7 screws.

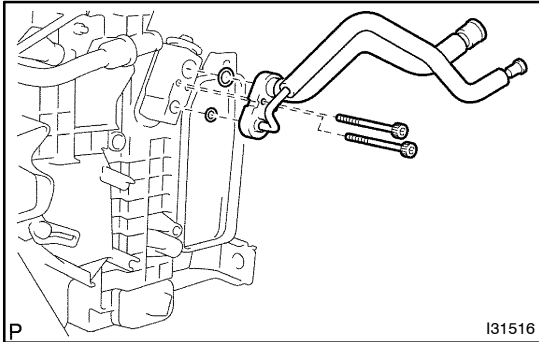


- (f) A/X models:
Install the air duct sub-assy with the 3 screws.



33. INSTALL COOLER EXPANSION VALVE

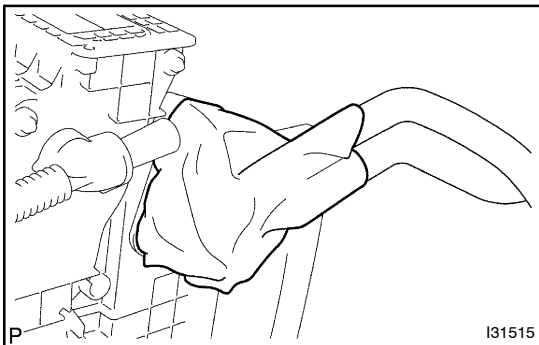
- (a) Install the cooler expansion valve to the cooler evaporator No. 1.



34. 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.

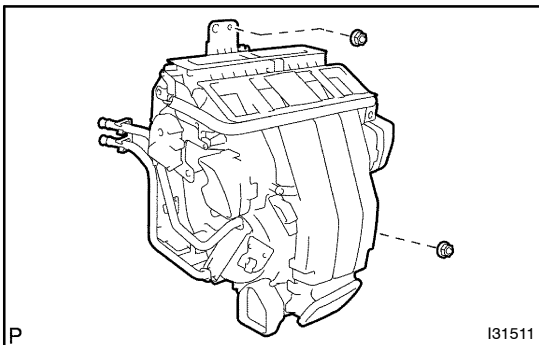
Torque: 3.5 N·m (35 kgf·cm, 30 in·lbf)



- (c) Install the packing.

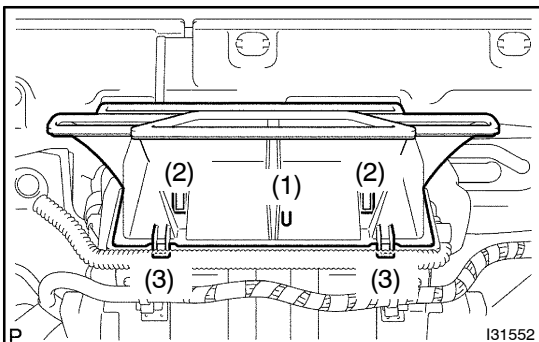
HINT:

Securely attach so that the gap in the packing will not be made.



35. 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)

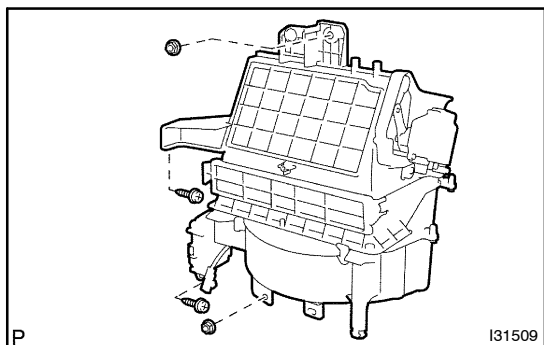


36. INSTALL DEFROSTER NOZZLE ASSY LOWER

- (a) Install the defroster nozzle assy lower.

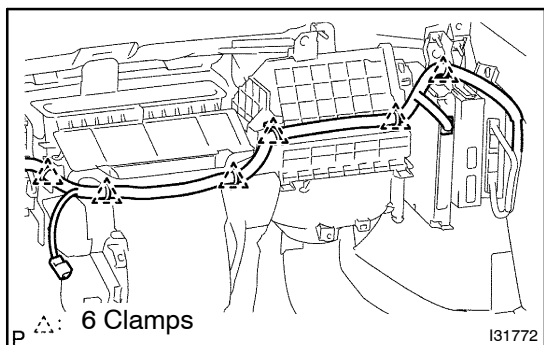
NOTICE:

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

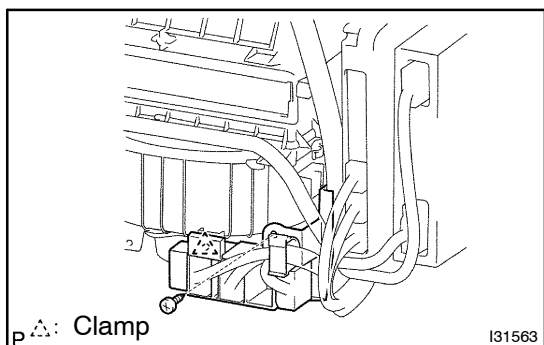


37. INSTALL BLOWER ASSY

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



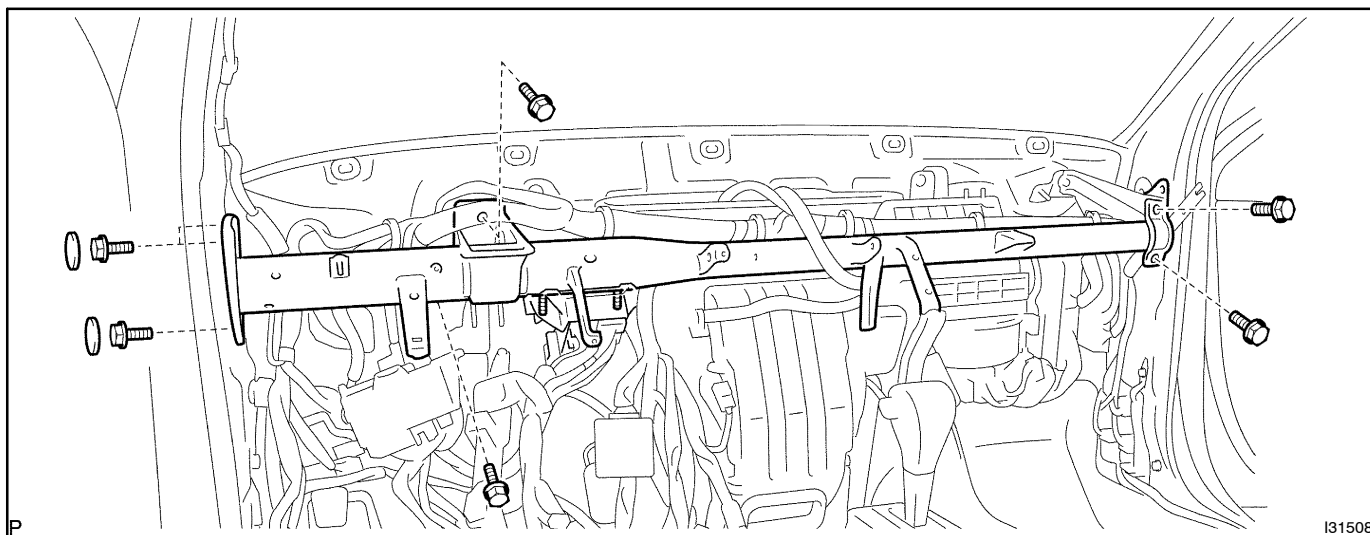
- (b) Install the 6 clamps, connect the wire harness.



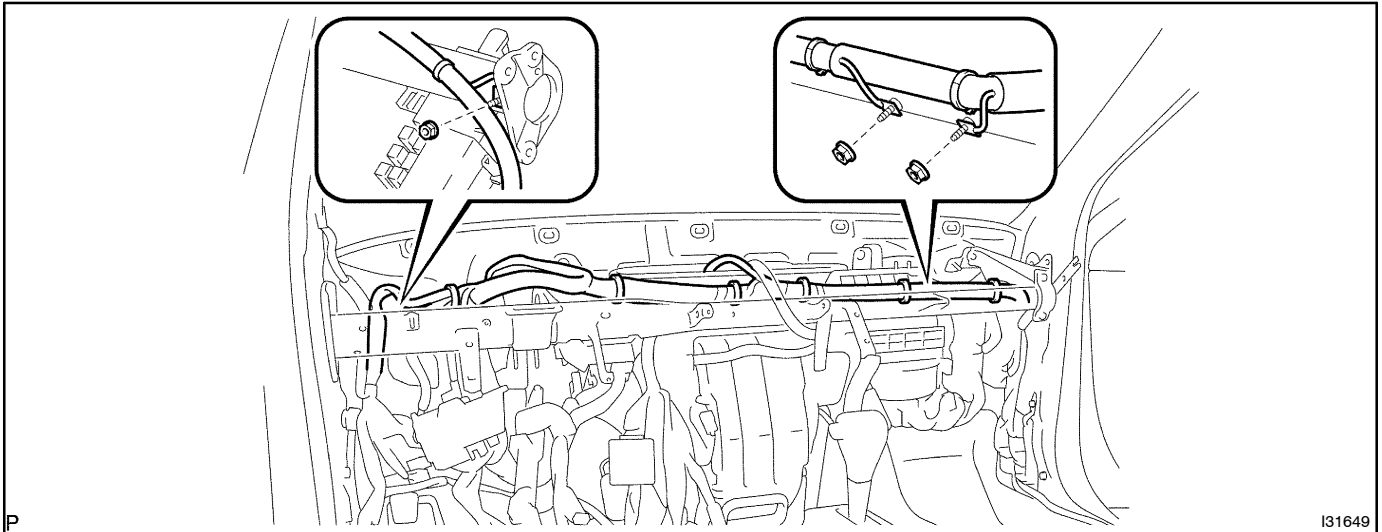
- (c) Install the blower connector holder with the screw and clamp.
 (d) Connect the connectors.

38. INSTALL INSTRUMENT PANEL REINFORCEMENT

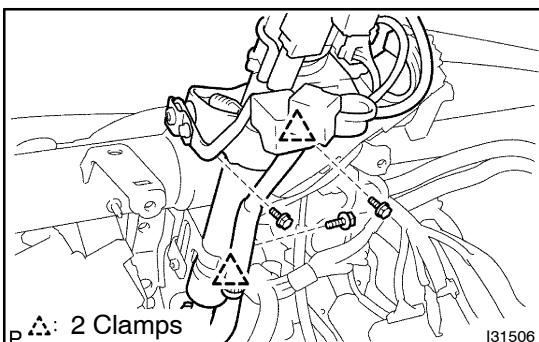
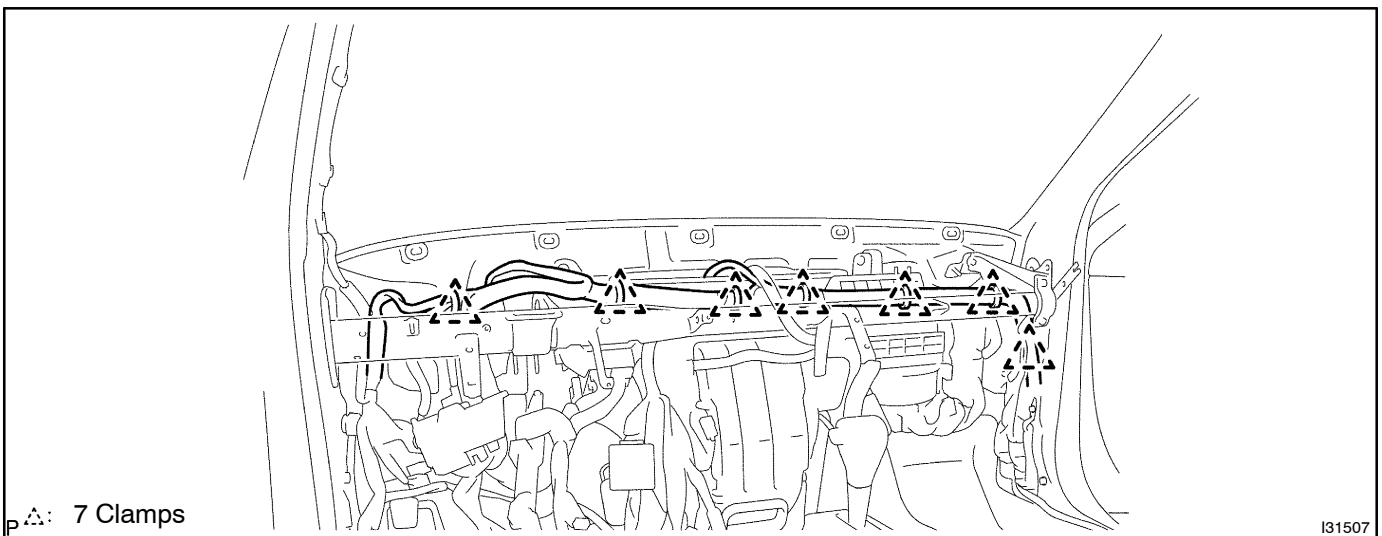
- (a) Install the instrument panel reinforcement with the 7 bolts and 3 caps.



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

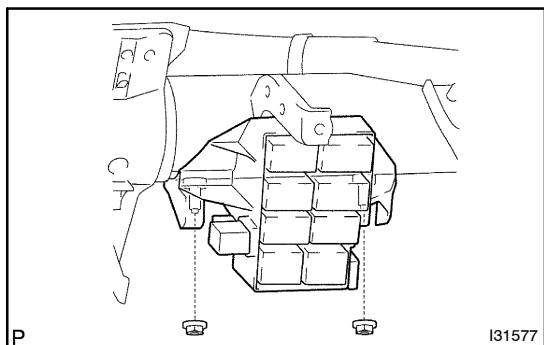


- (c) Install the 7 clamps, connect the wire harness.

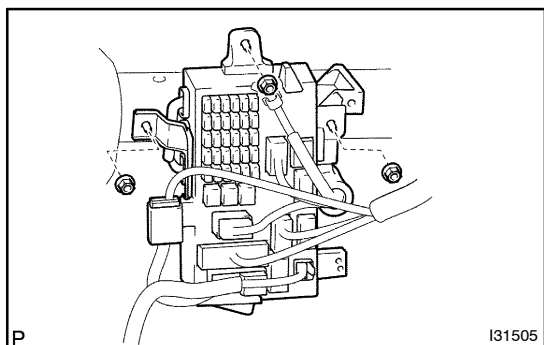


39. INSTALL STEERING COLUMN ASSY

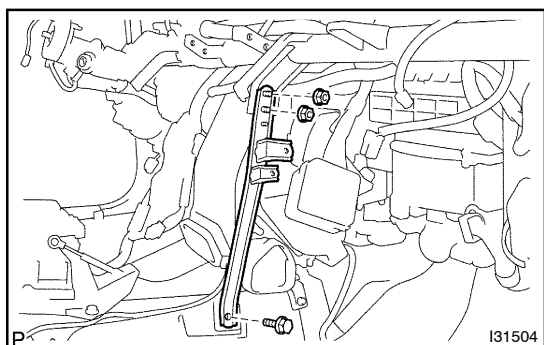
- (a) Install the steering column assy with the 3 bolts.
(b) Install the 2 clamps.



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

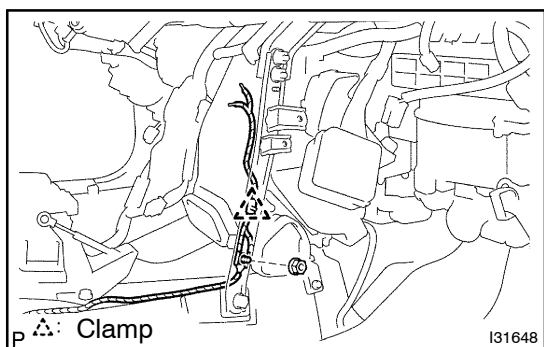


- (d) Install the driver side junction block with the 3 nuts.
Torque: 8.4 N·m (85 kgf·cm, 73 in·lbf)

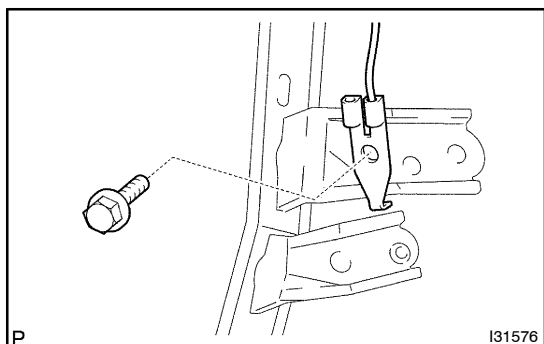


40. INSTALL INSTRUMENT PANEL BRACE SUB-ASSY NO.2

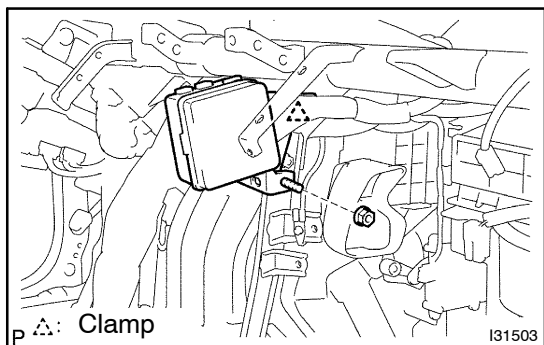
- (a) Install the instrument panel brace sub-assy No. 2 with the 2 nuts and bolt.



- (b) Install the nut and clamp.

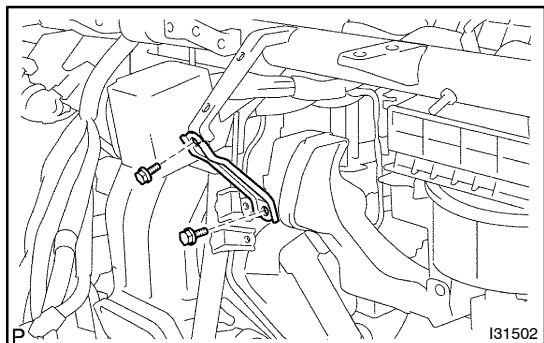


- (c) Install the earth wire with the bolt.



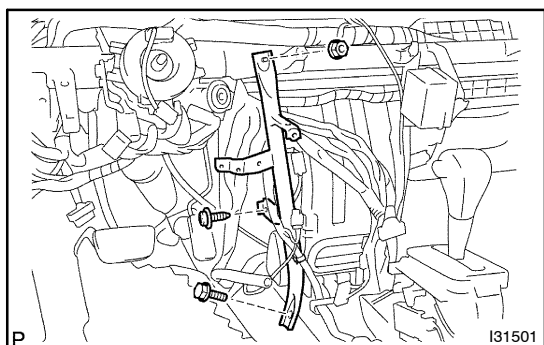
- (d) Install the passenger side junction block with the nut and clamp.

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



41. INSTALL INSTRUMENT FINISH PANEL RETAINER LOWER

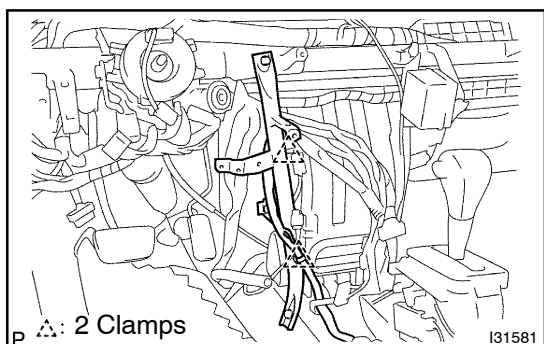
- (a) Install the instrument finish panel retainer lower with the 2 bolts.



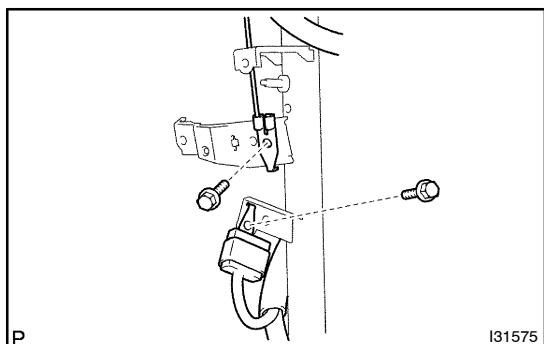
42. INSTALL INSTRUMENT PANEL BRACE SUB-ASSY NO.1

- (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)



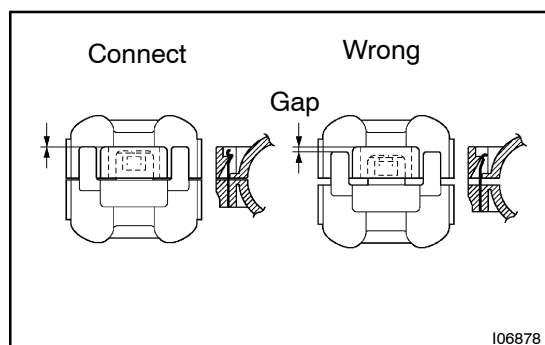
- (c) Install the 2 clamps.



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

43. INSTALL INSTRUMENT PANEL SAFETY PAD SUB-ASSY

(See page 71-10)

**44. INSTALL COOLER REFRIGERANT SUCTION HOSE NO.1 (LHD STEERING POSITION TYPE)**

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

Compressor oil: ND-OIL 8 or equivalent

- (b) Install the suction hose sub-assy and piping clamp.

HINT:

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

45. INSTALL COOLER REFRIGERANT LIQUID PIPE A (RHD STEERING POSITION TYPE)**HINT:**

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

46. INSTALL COOLER REFRIGERANT LIQUID PIPE A (LHD STEERING POSITION TYPE)**HINT:**

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

47. INSTALL COOLER REFRIGERANT SUCTION PIPE NO.1 (RHD STEERING POSITION TYPE)**HINT:**

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

48. ADD COOLANT**1MZ-FE:** (See page 16-31)**1AZ-FE:** (See page 16-6)**2AZ-FE:** (See page 16-18)**49. 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:**LHD:** 550 ± 50 g (19.37 ± 1.76 oz.)**RHD:** 580 ± 50 g (21.86 ± 1.76 oz.)**50. WARM UP ENGINE****51. CHECK ENGINE COOLANT LEAK****1MZ-FE:** (See page 16-25)**1AZ-FE:** (See page 16-1)**2AZ-FE:** (See page 16-13)**52. INSPECT LEAKAGE OF REFRIGERANT (See page 55-8)**