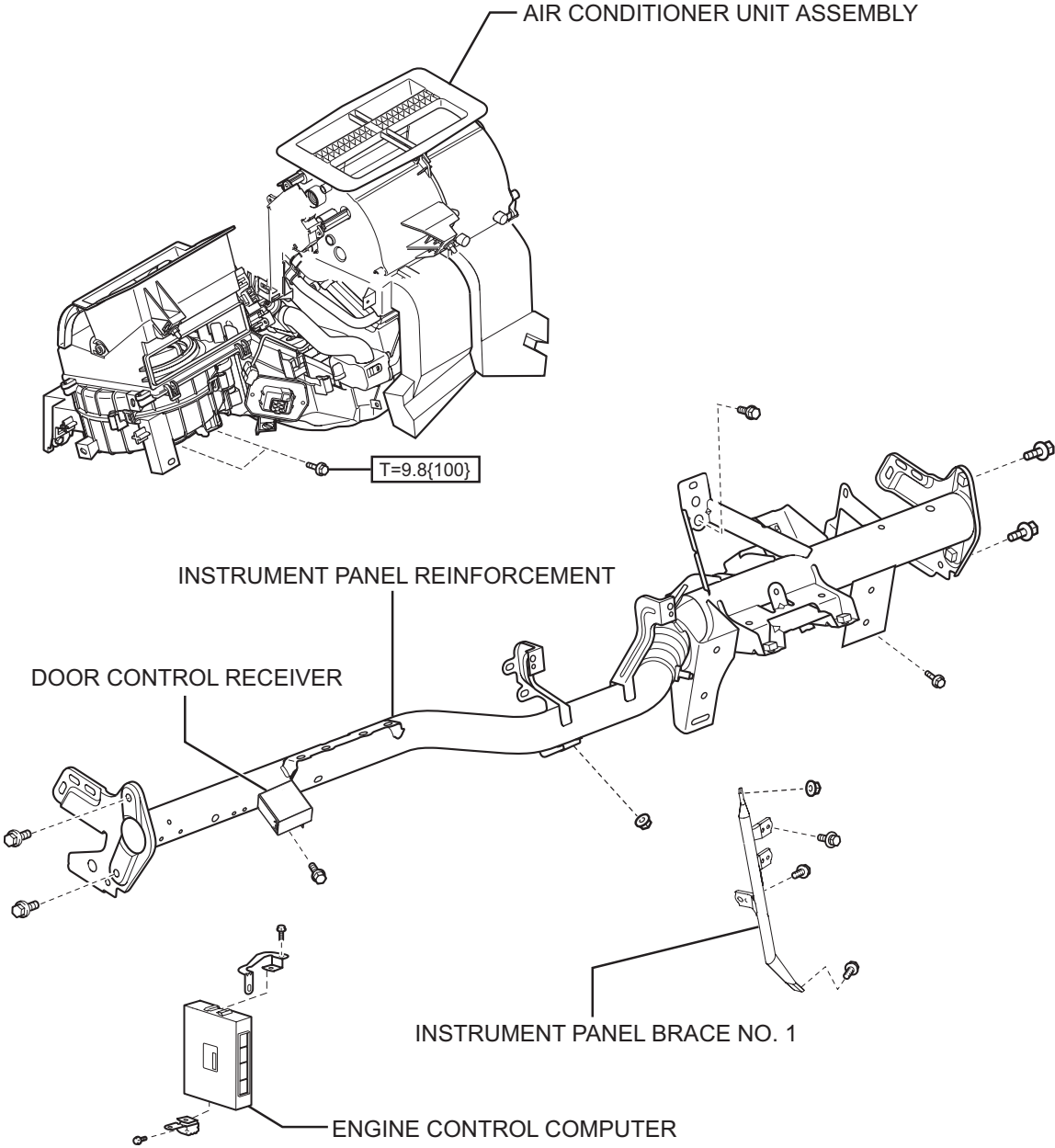


AIR CONDITIONING RADIATOR ASSEMBLY

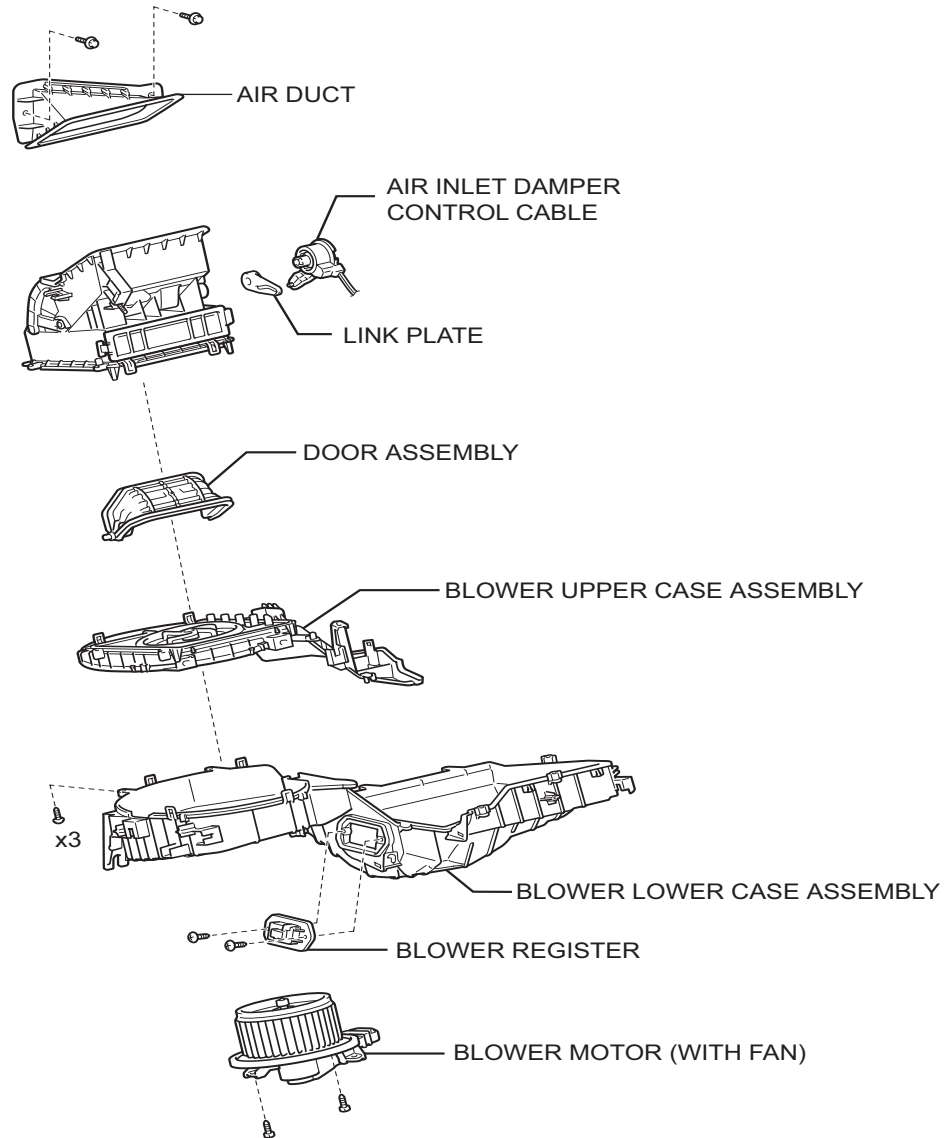
COMPONENTS

AC

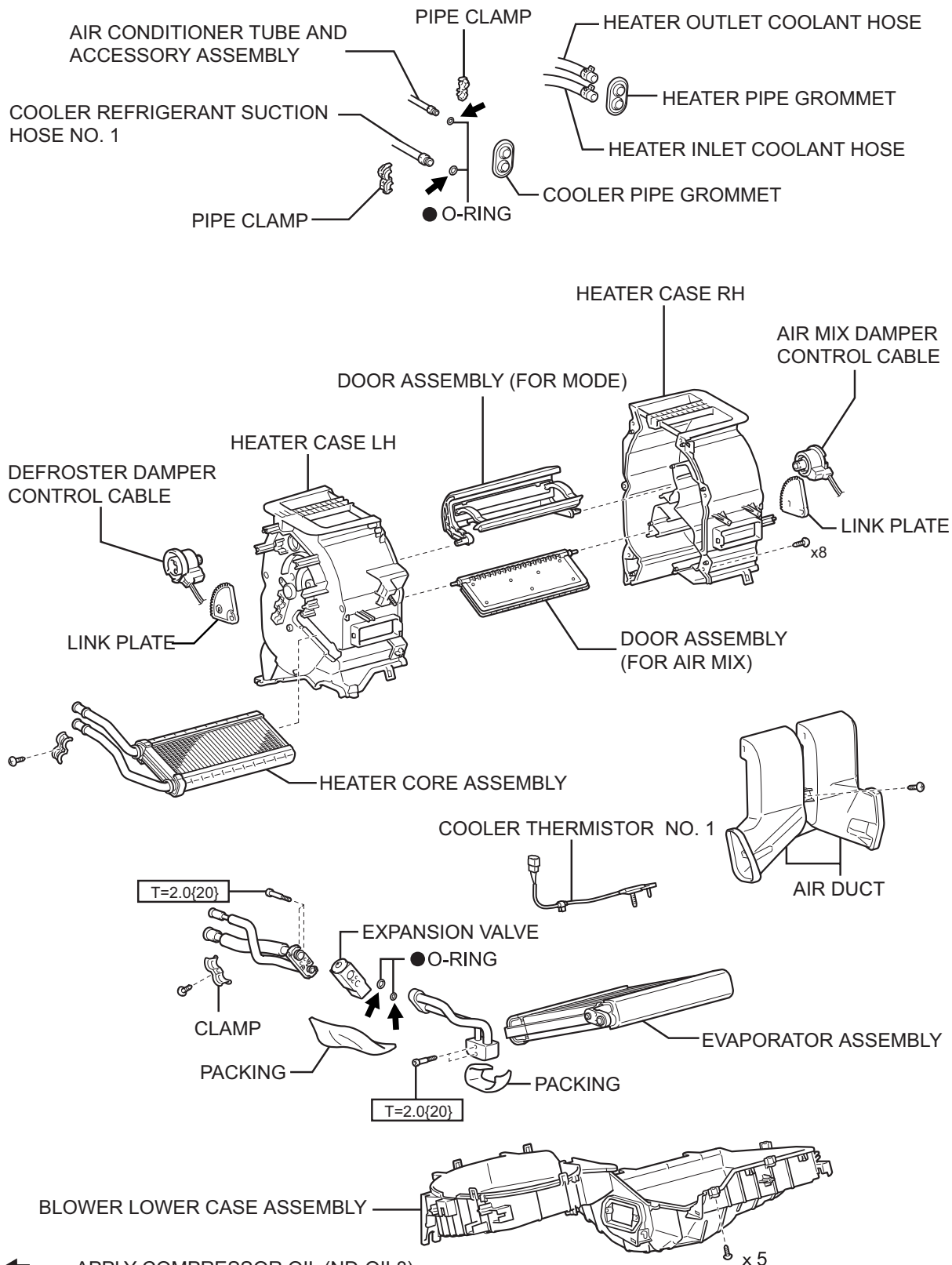


.....TIGHTENING TORQUE [N*m{kgf*cm}]





AC



←..... APPLY COMPRESSOR OIL (ND-OIL8)

..... TIGHTENING TORQUE [N*m{kgf*cm}] ●..... NON-REUSEABLE PART

REMOVAL

HINT:

- See page IP-2 for the instrument panel safety pad components

1. REMOVE REFRIGERANT HFC - 134a (R134a) (See page AC-27)
2. REMOVE AIR CONDITIONING TUBE AND ACCESSORY ASSEMBLY

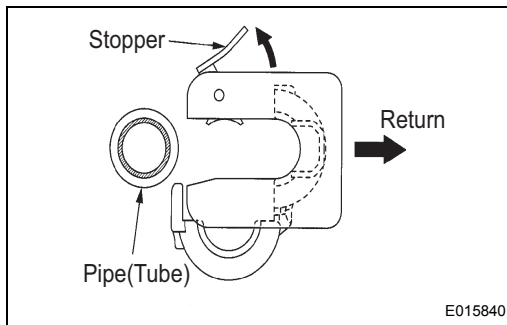
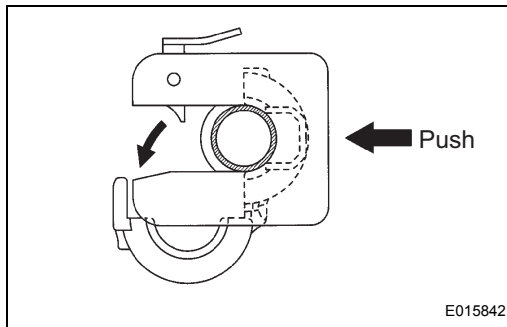
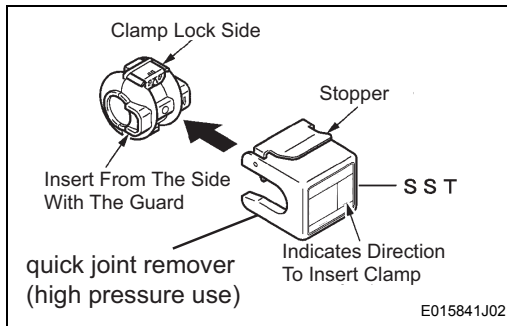
AC

- (a) Check the direction in which the quick joint remover (high pressure use) should be inserted.

HINT:

Set the quick joint remover (high pressure use) so that the stopper side is on the piping clamp lock side.

- (b) Insert the quick joint remover (high pressure use) into the pipe clamp.



- (c) Press the quick joint remover (high pressure use) with your thumb while holding the pipe with both hands.

NOTICE:

Be careful not to bend the pipe by applying excessive force to the pipe.

- (d) Push the quick joint remover (high pressure use) back until the stopper lightly touches the pipe.

- (e) Lift the quick joint remover (high pressure use) stopper and remove the piping clamp together with the quick joint remover (high pressure use) from the pipe.

- (f) Remove the piping clamp from the quick joint remover (high pressure use) .

- (g) Remove the air conditioning tube and accessory assembly.

- (h) Remove the 2 O-rings from the air conditioning tube & accessory assembly.

NOTICE:

- Do not apply excessive force to the air conditioning tube and accessory assembly.
- Seal the opening of the disconnected hose using vinyl tape to prevent moisture and foreign matter from entering.

3. DISCONNECT COOLER REFRIGERANT SUCTION HOSE NO. 1

HINT:

Using the quick joint remover (high pressure use), disconnect it using the same procedure as that for the air conditioning tube and the accessory assembly.

AC

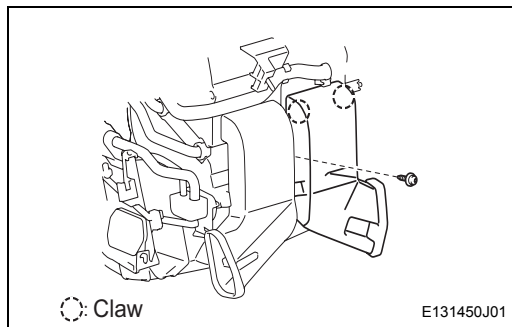
4. DISCONNECT HEATER INLET WATER HOSE (See page EM-44)
5. DISCONNECT HEATER OUTLET WATER HOSE (See page EM-44)
6. REMOVE INSTRUMENT PANEL WITH PASSENGER AIRBAG ASSEMBLY

HINT:

See page IP-8 for the procedure leading up to the removal of the instrument panel.

7. REMOVE AIR DUCT (DRIVER SIDE)

- (a) Remove the screw.
- (b) Disengage the claws and remove the air duct (driver side).

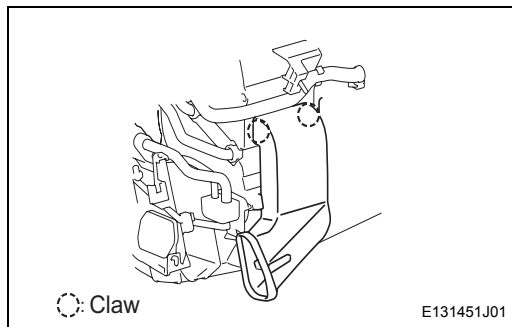


8. REMOVE AIR DUCT (PASSENGER SIDE)

- (a) Disengage the claws and remove the air duct (passenger side).

9. REMOVE DOOR CONTROL RECEIVER (WITH WIRELESS DOOR LOCK)

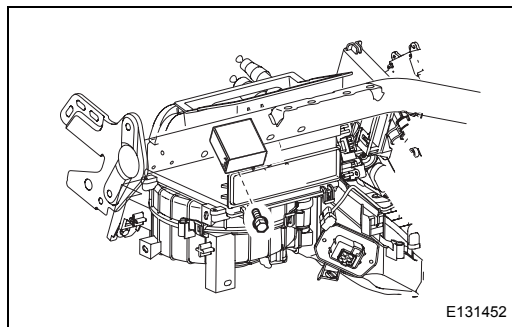
- (a) Disconnect the connector.



- (b) Remove the bolt and the door control receiver.

10. REMOVE TRANSMISSION CONTROL COMPUTER ASSEMBLY (TRANSMISSION A/T) (See page AT-98)

11. REMOVE ECM (See page ES-139)

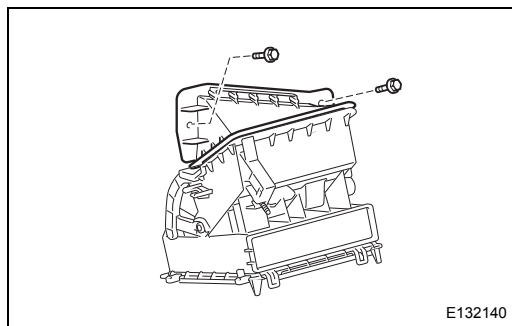


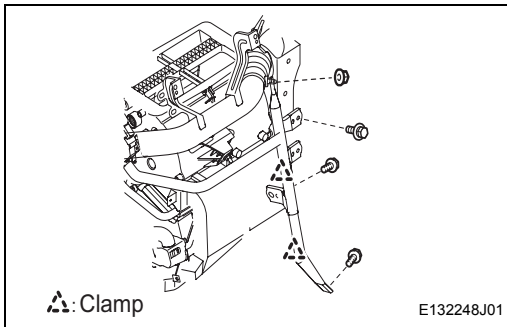
12. REMOVE AIR DUCT

- (a) Remove the 2 bolts and air duct.

13. REMOVE INSTRUMENT PANEL BRACE NO. 1

- (a) Detach the clamps and disconnect the wire harness.





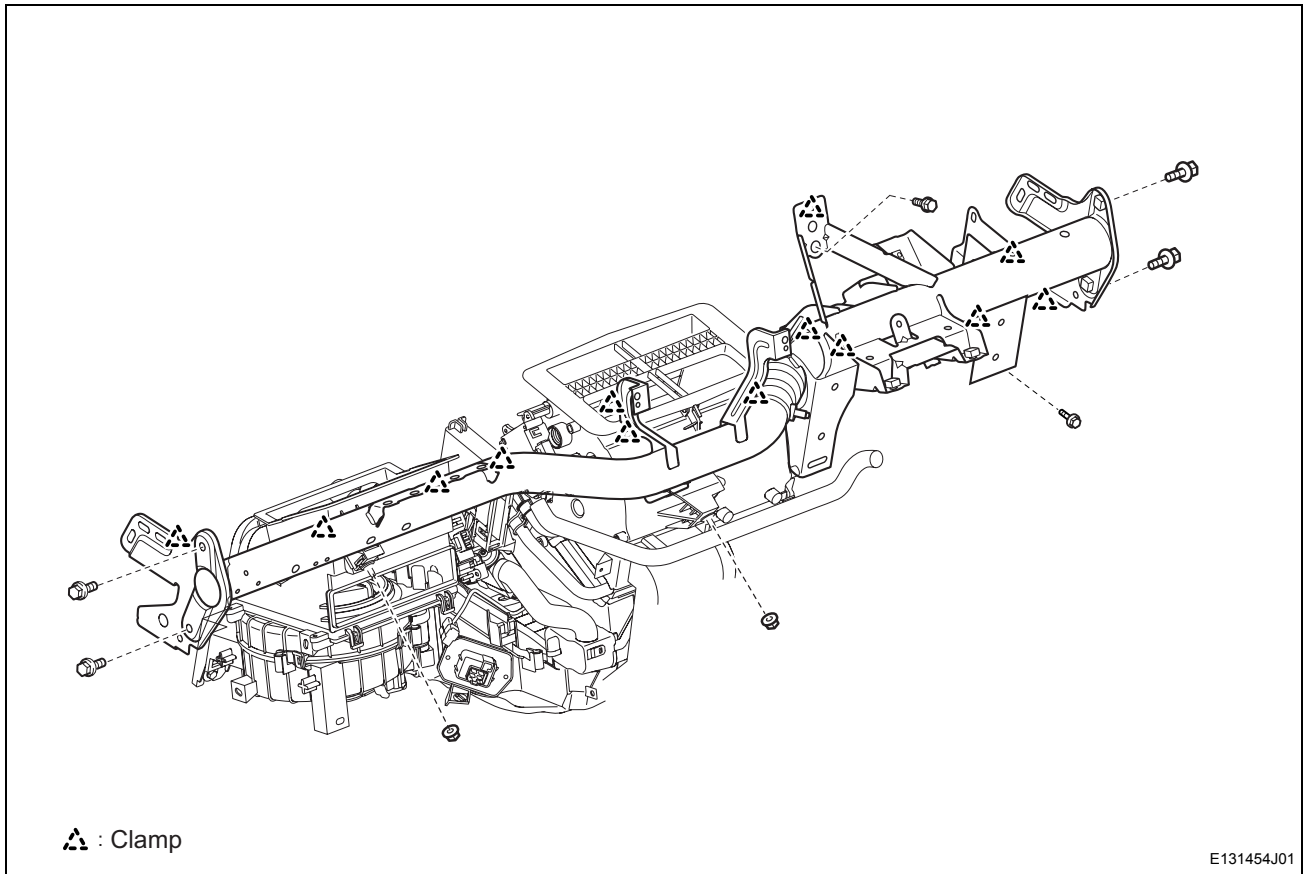
- (b) Remove the 3 bolts and nut, and then remove instrument panel brace No. 1.

14. REMOVE STEERING COLUMN ASSEMBLY

(See page SR-4)

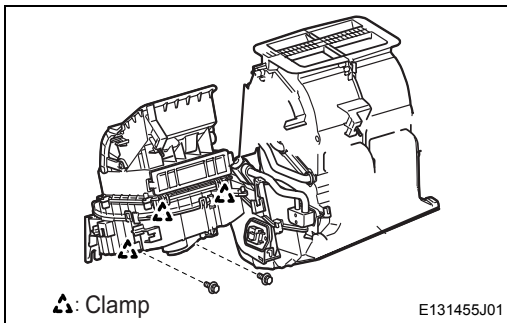
15. REMOVE INSTRUMENT PANEL REINFORCEMENT

- (a) Remove the connectors and clamps, and then disconnect the wire harness.
- (b) Remove the 6 bolts and nut, and then remove the instrument panel reinforcement.

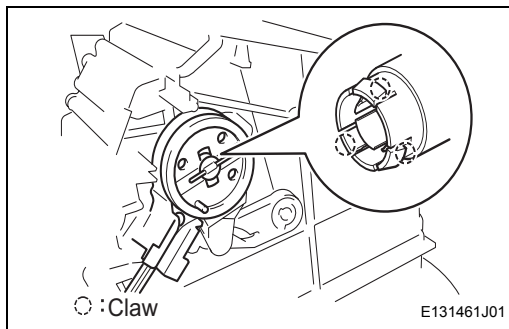
AC

16. REMOVE AIR CONDITIONER UNIT ASSEMBLY

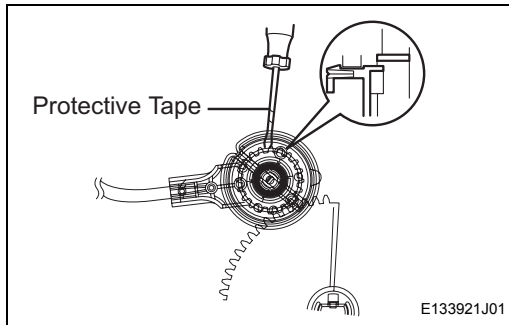
- (a) Remove the connectors and clamps, and then disconnect the wire harness.
- (b) Remove the 2 bolts and air conditioner unit assembly.



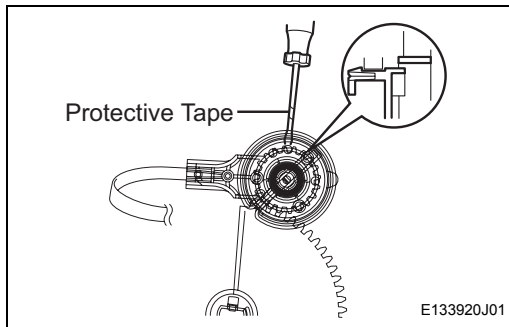
17. DISCONNECT TRANSPONDER KEY ECU ASSEMBLY

**18. DISCONNECT AIR INLET DAMPER CONTROL CABLE**

- (a) Disengage the 3 claws and remove the air inlet control cable.

19. REMOVE BLOWER MOTOR (WITH FAN) (See page AC-64)**20. REMOVE BLOWER REGISTER (See page AC-59)****DISASSEMBLY****21. DISCONNECT DEFROSTER DAMPER CONTROL CABLE**

- (a) Using a screwdriver with the tip taped, disengage the claw and remove the defroster damper control cable.

**22. DISCONNECT AIR MIX DAMPER CONTROL CABLE**

- (a) Using a screwdriver with the tip taped, disengage the claw and remove the air mix damper control cable.

23. DISCONNECT HEATER CORE ASSEMBLY

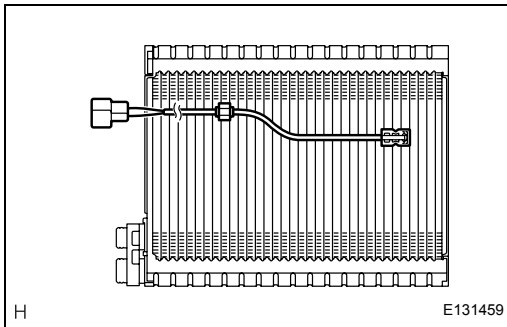
- (a) Disengage the 5 screws and claws, and remove the blower case (lower) and heater case.
 (b) Disengage the 3 screws and claws, and remove the blower case assembly (upper and lower).
 (c) Disengage the 8 screws and claws, and remove the heater case assembly.
 (d) Remove the heater core assembly from the air conditioner radiator assembly.

24. REMOVE EXPANSION VALVE

- (a) Remove the packing from the air conditioner tube assembly.
 (b) Using a 4 mm hexagon wrench, remove the 2 hexagon bolts. Then remove the air conditioner tube assembly and the expansion valve.
 (c) Remove the 2 O-rings from the air conditioner tube assembly.

25. REMOVE EVAPORATOR ASSEMBLY

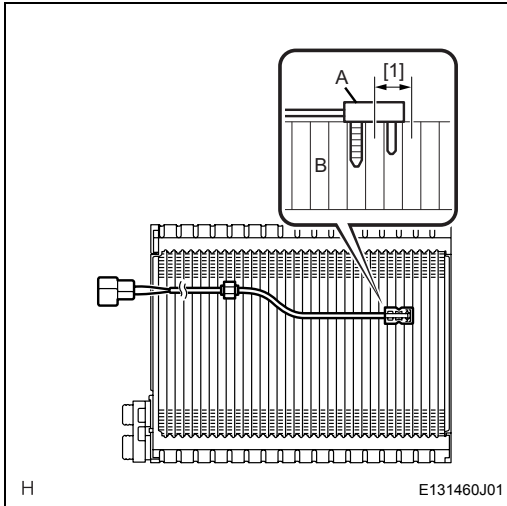
- (a) Using a 4 mm hexagon wrench, remove the 2 hexagon bolts and the air conditioner tube assembly.
 (b) Remove the 2 O-rings from the evaporator assembly.
 (c) Remove cooler thermistor No. 1 together with the evaporator assembly.



26. REMOVE COOLER THERMISTOR NO. 1

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

REASSEMBLY



27. INSTALL COOLER THERMISTOR NO. 1

- (a) Install the new cooler thermistor No. 1 in the position shown in the illustration.

NOTICE:

- Do not insert the thermistor more than once in order to maintain the thermistor's durability.
- When reusing the evaporator, insert the thermistor into a position on the left or right of the previous position. (Within the [1] range, as shown in the illustration)
- Do not apply excessive force to the lead after inserting the thermistor.
- Insert the resin case straight into the evaporator until the end of the resin case (A) touches that of (B).

28. INSTALL EVAPORATOR ASSEMBLY

- (a) Install cooler thermistor No. 1 together with the evaporator assembly.
- (b) Sufficiently apply compressor oil (ND-OIL8) to 2 new O-rings and the evaporator assembly of the air conditioner tube assembly.
- (c) Install the 2 O-rings on the air conditioning tube assembly.

NOTICE:

Do not allow foreign matter to attach to the O-ring or O-ring seal.

- (d) Using a 4 mm hexagon wrench, install the air conditioning tube assembly with the 2 hexagon bolts.

Torque: 2.0 N*m (20 kgf*cm)

29. INSTALL EXPANSION VALVE

- (a) Sufficiently apply compressor oil (ND-OIL8) to 2 new O-rings and the expansion valve of the air conditioning tube assembly.
- (b) Install the 2 O-rings on the air conditioning tube assembly.

NOTICE:

Do not allow foreign matter to attach to the O-ring or O-ring seal.

- (c) Install the expansion valve to the air conditioning tube assembly.
- (d) Sufficiently apply compressor oil (ND-OIL8) to 2 new O-rings and the fitting surface of the expansion valve.
- (e) Install the 2 O-rings on the air conditioning tube assembly.

NOTICE:

Do not allow foreign matter to attach to the O-ring or O-ring seal.

AC

- (f) Using a 4 mm hexagon wrench, install the air conditioning tube assembly with the 2 hexagon bolts.

Torque: 2.0 N*m (20 kgf*cm)

30. INSTALL HEATER CORE ASSEMBLY

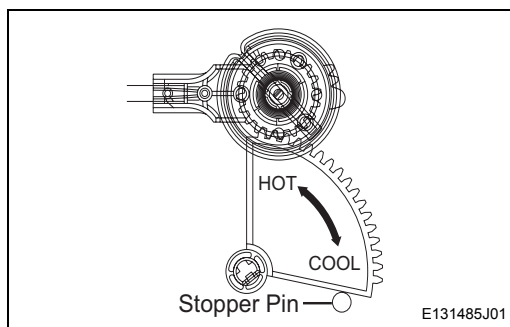
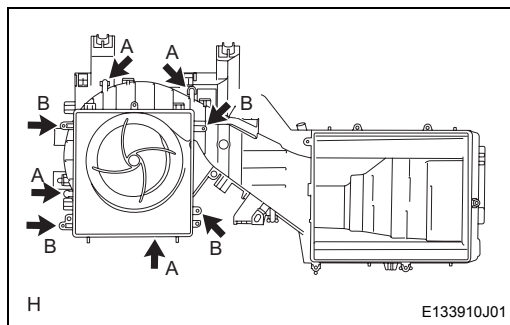
- Install the heater core assembly to the air conditioning radiator assembly.
- Attach the claw and install the heater case with the 8 screws.
- Attach the claw and install the blower case assembly (upper and lower) with the 3 screws.
- Attach the claw and install the blower case (lower) and heater case with the 5 screws.
- When reusing the blower case (lower), use screws given for repair and tighten the positions (8 locations) in the diagram.

A:

BLOWER CASE ASSEMBLY (UPPER AND LOWER) 4 LOCATIONS

B:

BLOWER CASE ASSEMBLY (INSIDE AND OUTSIDE GAS CASE) 4 LOCATIONS

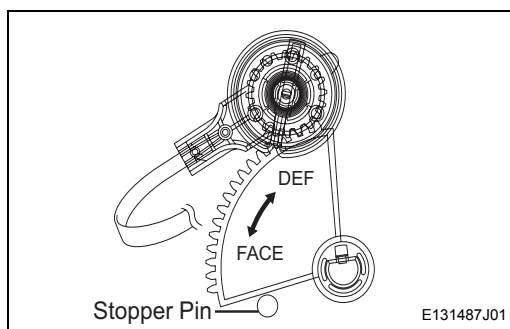


31. INSTALL AIR MIX DAMPER CONTROL CABLE

- Set the temperature adjusting dial to MAX-COOL.
- Push the air mix door gear to the stopper pin on the MAX-COOL side.
- Attach the gear on the cable side to the air mix door gear, and install the air mix damper control cable.

NOTICE:

- Do not damage the cable with metal edge or others.
- Do not bend the cable.
- If the gear is misaligned, it may cause malfunction.



32. INSTALL DEFROSTER DAMPER CONTROL CABLE

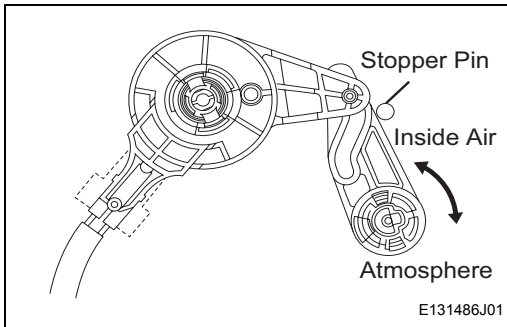
- Set the air inlet control dial to the FACE mode.
- Push the mode door gear to the stopper pin on the FACE side.
- Attach the gear on the cable side to the air mix door gear, and install the defroster damper control cable.

NOTICE:

- Do not damage the cable with metal edge or others.
- Do not bend the cable.
- If the gear is misaligned, it may cause malfunction.

INSTALLATION

- INSTALL BLOWER REGISTER (See page AC-59)
- INSTALL BLOWER MOTOR (WITH FAN) (See page AC-64)



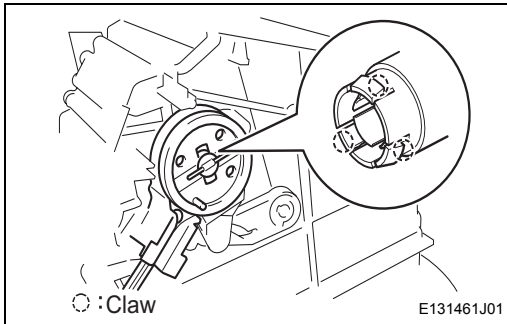
3. INSTALL AIR INLET DAMPER CONTROL CABLE

- Set the air inlet control dial to the FRESH AIR mode.
- Install by inserting the air inlet damper control cable pin into the air inlet door side link groove.

NOTICE:

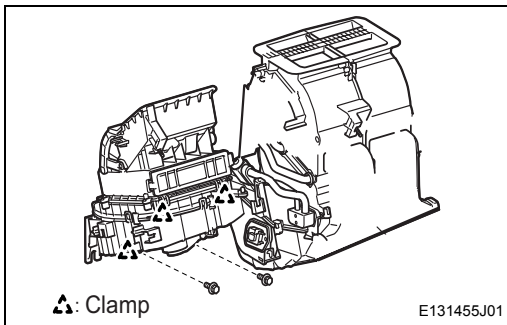
- Do not damage the cable with metal edge or others.
- Do not bend the cable.
- If the gear is misaligned, it may cause malfunction.

AC



- Attach the 3 claws to install the air inlet damper control cable.

4. INSTALL TRANSPONDER KEY ECU ASSEMBLY



5. INSTALL AIR CONDITIONER UNIT ASSEMBLY

- Install the air conditioner unit assembly with the 2 bolts.

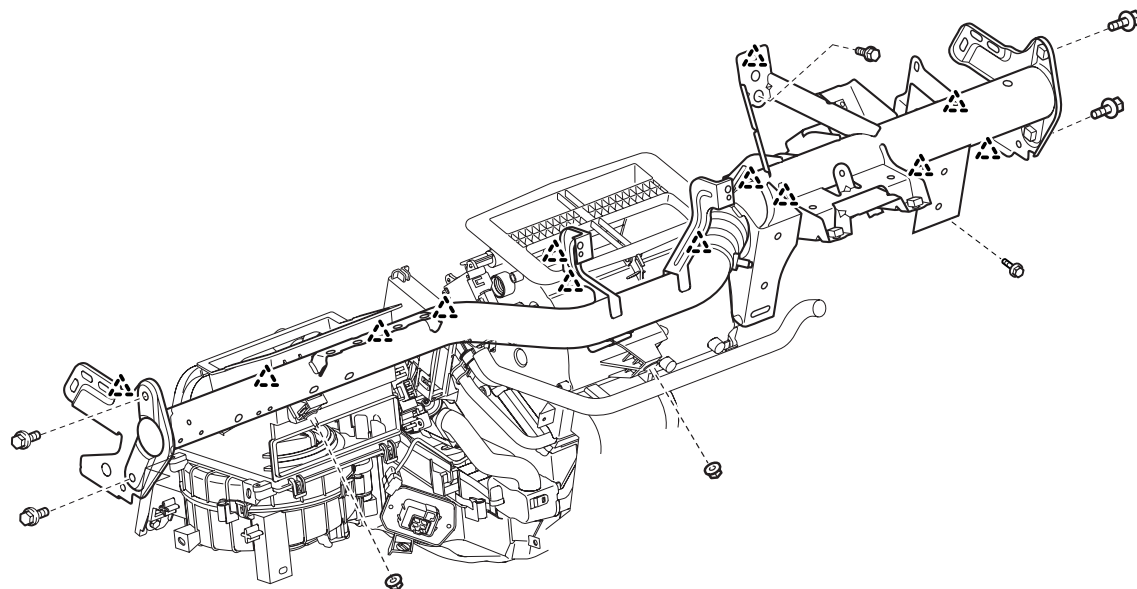
Torque: 9.8 N*m (100 kgf*cm)

- Install the wire harness with the clamps and connectors.

6. INSTALL INSTRUMENT PANEL REINFORCEMENT

- Install the instrument panel reinforcement with the 6 bolts and nut.

- (b) Install the wire harness with the clamps and connectors.



△ : Clamp

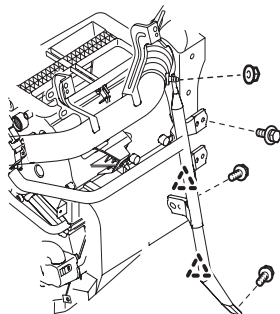
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7. INSTALL STEERING COLUMN ASSEMBLY

(See page SR-7)

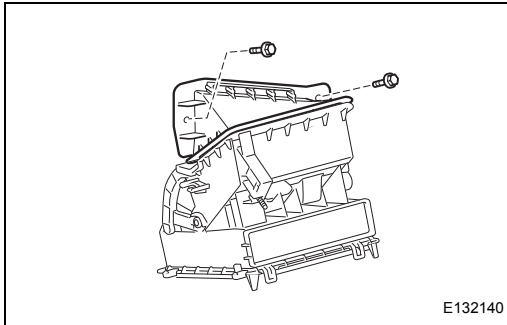
8. INSTALL INSTRUMENT PANEL BRACE NO. 1

- Install instrument panel brace No. 1(transmission A/T) with the 5 bolts and nut.
- Install instrument panel brace No. 1(transmission A/T) with the 3 bolts and nut.
- Install the harness with the clamps.



△ : Clamp

E132248J01



9. **INSTALL AIR DUCT.**
 - (a) Install the air duct with the 2 bolts.
10. **INSTALL ECM (See page ES-139)**
11. **INSTALL TRANSMISSION CONTROL COMPUTER ASSEMBLY (TRANSMISSION A/T) (See page AT-99)**
12. **INSTALL DOOR CONTROL RECEIVER (WITH WIRELESS DOOR LOCK)**
 - (a) Install the door control receiver with the bolts.
 - (b) Connect the connector.
13. **INSTALL AIR DUCT (PASSENGER SIDE)**
 - (a) Attach the claw and install the air duct (passenger side).
14. **INSTALL AIR DUCT (DRIVER SIDE)**
 - (a) Attach the claws.
 - (b) Install the air duct (driver side) with the screws.
15. **INSTALL INSTRUMENT PANEL WITH PASSENGER AIRBAG ASSEMBLY**
(See page IP-15.)
16. **INSTALL HEATER OUTLET WATER HOSE (See page EM-67)**
17. **INSTALL HEATER INLET WATER HOSE (See page EM-67)**
18. **INSTALL COOLER REFRIGERANT SUCTION HOSE NO. 1**
 - (a) Remove the attached vinyl tape from the connected part of cooler refrigerant suction hose No. 1 and the air conditioner tube assembly.
 - (b) Sufficiently apply compressor oil (ND-OIL8) to 2 new O-rings and the fitting surface of the air conditioning tube assembly .
 - (c) Install the 2 O-rings on the No. 1 cooler refrigerant suction hose.

NOTICE:
Do not allow foreign objects caught on the O-ring or O-ring seal.

 - (d) Press down on the seal hole until it fits with the hose joint axis core.
 - (e) Install cooler refrigerant discharge hose No. 1 with the pipe clamp.

NOTICE:
Make sure that the pipe clamp fits securely.
19. **INSTALL AIR CONDITIONER TUBE AND ACCESSORY ASSEMBLY**
HINT:
Install the air conditioner tube and accessory assembly by following the same procedure as that used to install cooler refrigerant discharge hose No. 1.
20. **CHARGE REFRIGERANT HFC - 134a [R134a] (See page AC-27)**
21. **WARM UP ENGINE (See page AC-28)**
22. **CHECK FOR REFRIGERANT LEAKS (See page AC-28)**
23. **CHECK FOR ENGINE COOLANT LEAKS (See page CO-10)**

