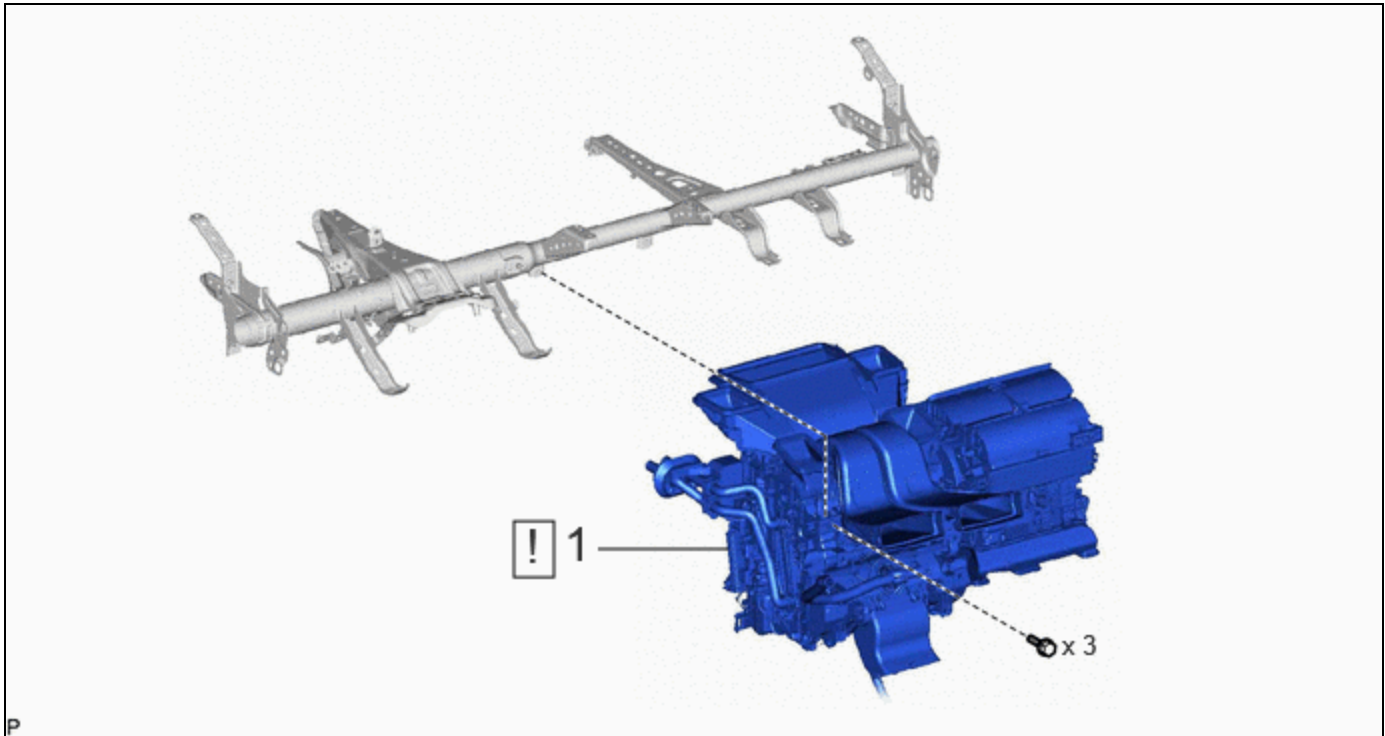


<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM10000002AXF4
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [03/2023 - ]
<b>Title:</b> HEATING / AIR CONDITIONING: AIR CONDITIONING UNIT: INSTALLATION; 2023 - 2024 MY Prius Prius Prime [03/2023 - ]		

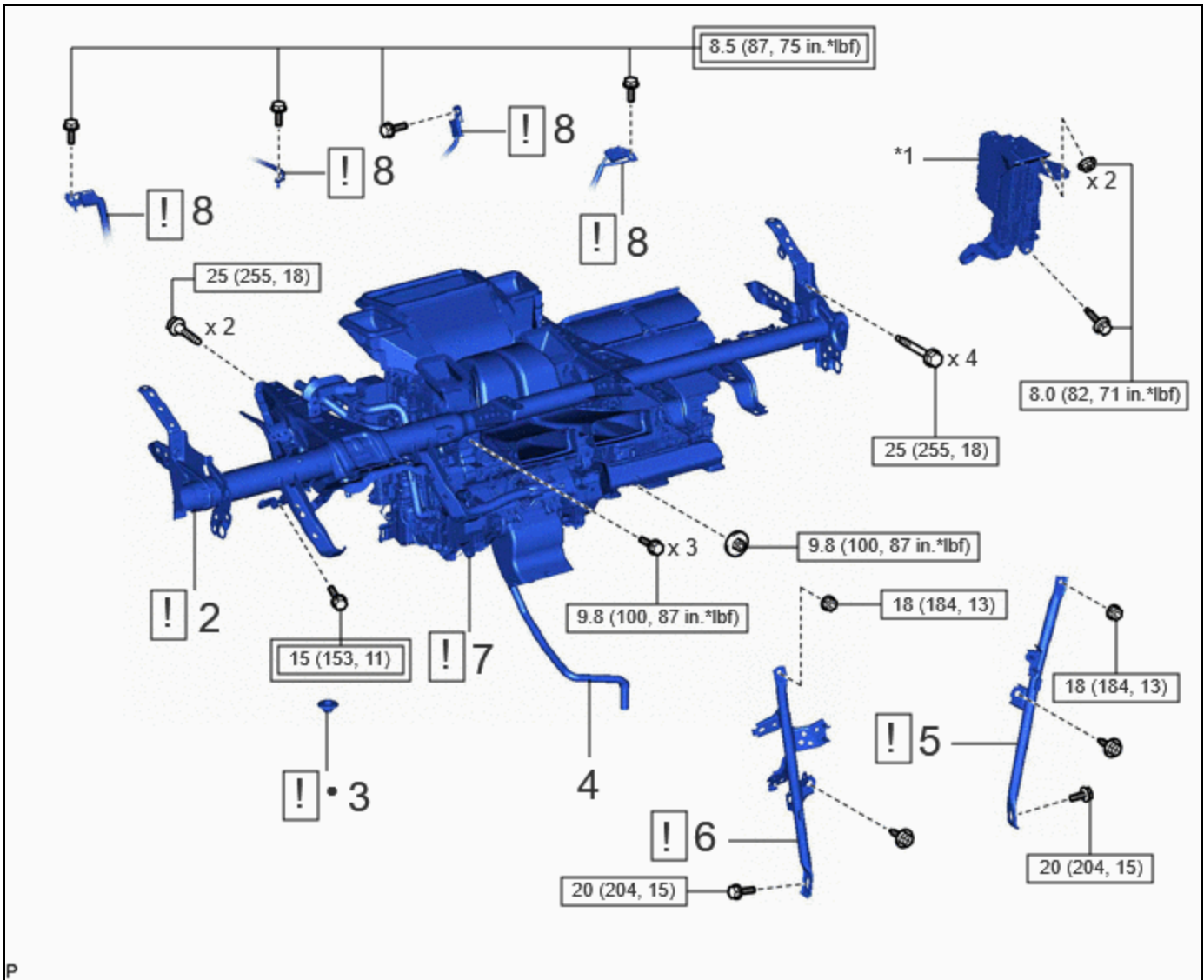
## INSTALLATION

### CAUTION / NOTICE / HINT

#### COMPONENTS (INSTALLATION)





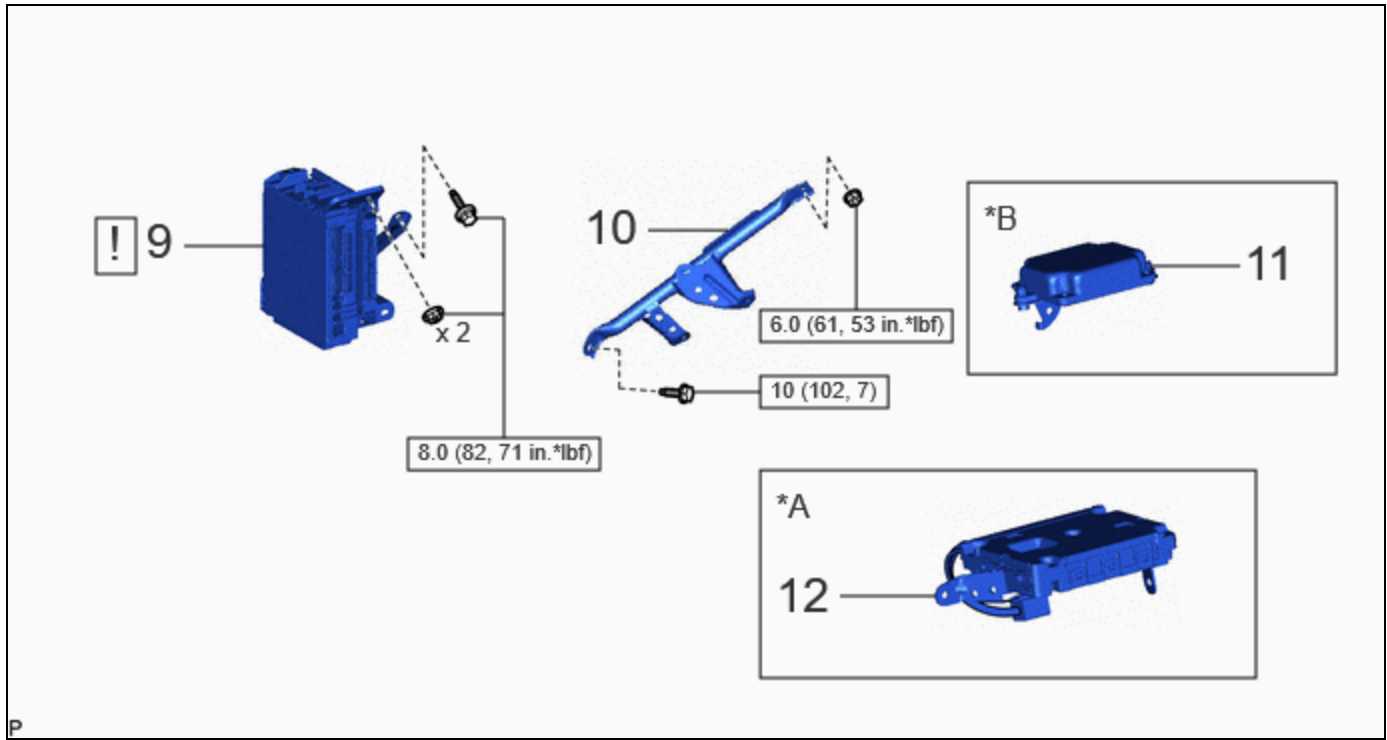
PROCEDURE		PART NAME CODE			
1	TEMPORARILY INSTALL AIR CONDITIONER UNIT ASSEMBLY	-		-	-








PROCEDURE	PART NAME CODE			
2 INSTRUMENT PANEL REINFORCEMENT ASSEMBLY WITH AIR CONDITIONER UNIT ASSEMBLY	-	<a href="#">INFO</a>	-	-
3 COOLER UNIT DRAIN HOSE GROMMET	88539G	<a href="#">INFO</a>	-	-
4 DRAIN COOLER HOSE	88539J	-	-	-
5 NO. 2 INSTRUMENT PANEL BRACE SUB-ASSEMBLY	55307C	<a href="#">INFO</a>	-	-
6 NO. 1 INSTRUMENT PANEL BRACE SUB-ASSEMBLY	55306A	<a href="#">INFO</a>	-	-
7 INSTALL AIR CONDITIONER UNIT ASSEMBLY	-	<a href="#">INFO</a>	-	-
8 INSTRUMENT PANEL WIRE	82141	<a href="#">INFO</a>	-	-

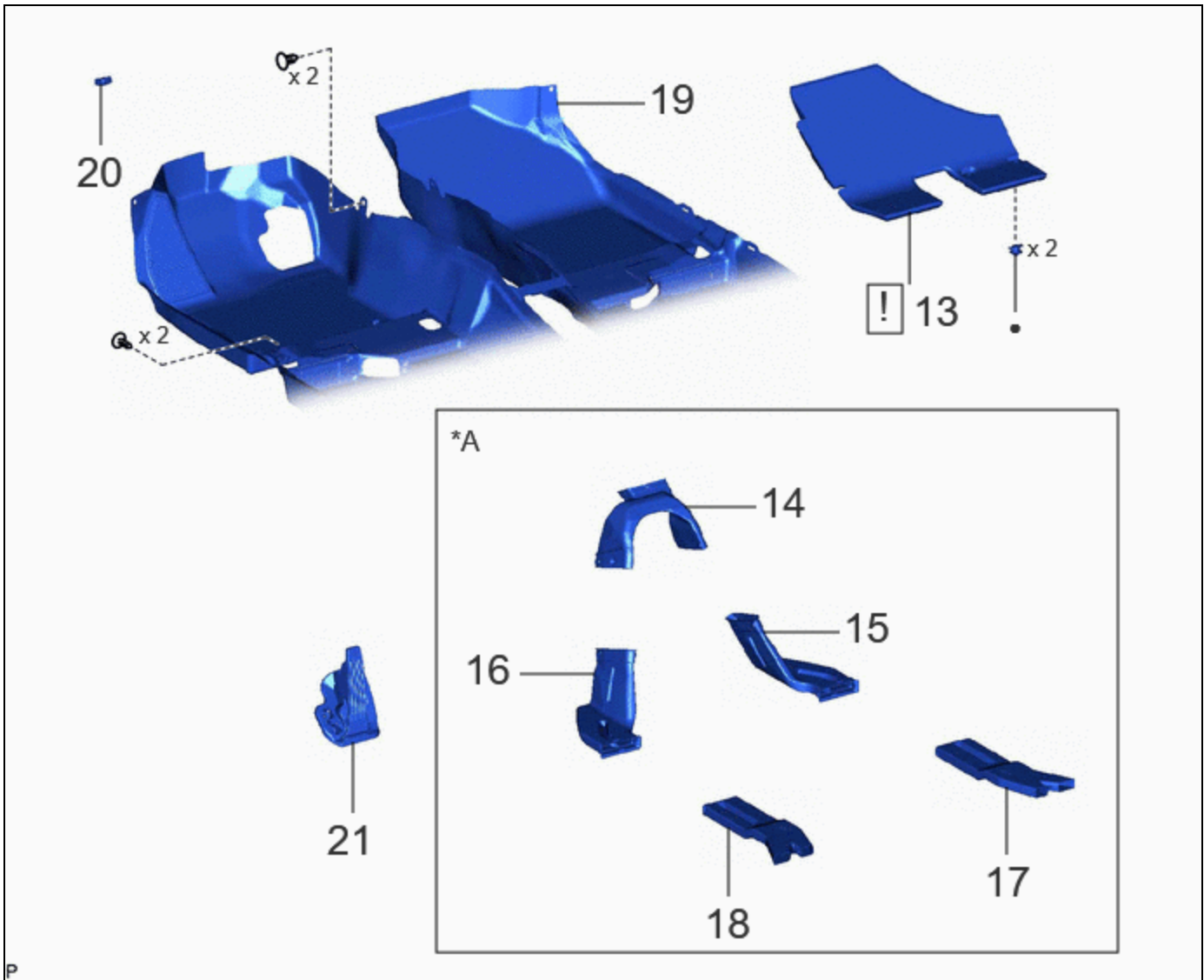
*1	CONNECTOR HOLDER	-	-
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	Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping": N*m (kgf*cm, ft.*lbf)		N*m (kgf*cm, ft.*lbf): Specified torque
<ul style="list-style-type: none"> <li>•</li> </ul>	Non-reusable part	-	-



PROCEDURE		PART NAME CODE			
9	JUNCTION BLOCK BRACKET WITH POWER DISTRIBUTION BOX ASSEMBLY	-		-	-
10	NO. 3 INSTRUMENT PANEL TO COWL BRACE SUB-ASSEMBLY	55308B	-	-	-
11	DRIVER MONITOR ECU ASSEMBLY	86470	-	-	-
12	DCM (TELEMATICS TRANSCEIVER) WITH BRACKET	-	-	-	-

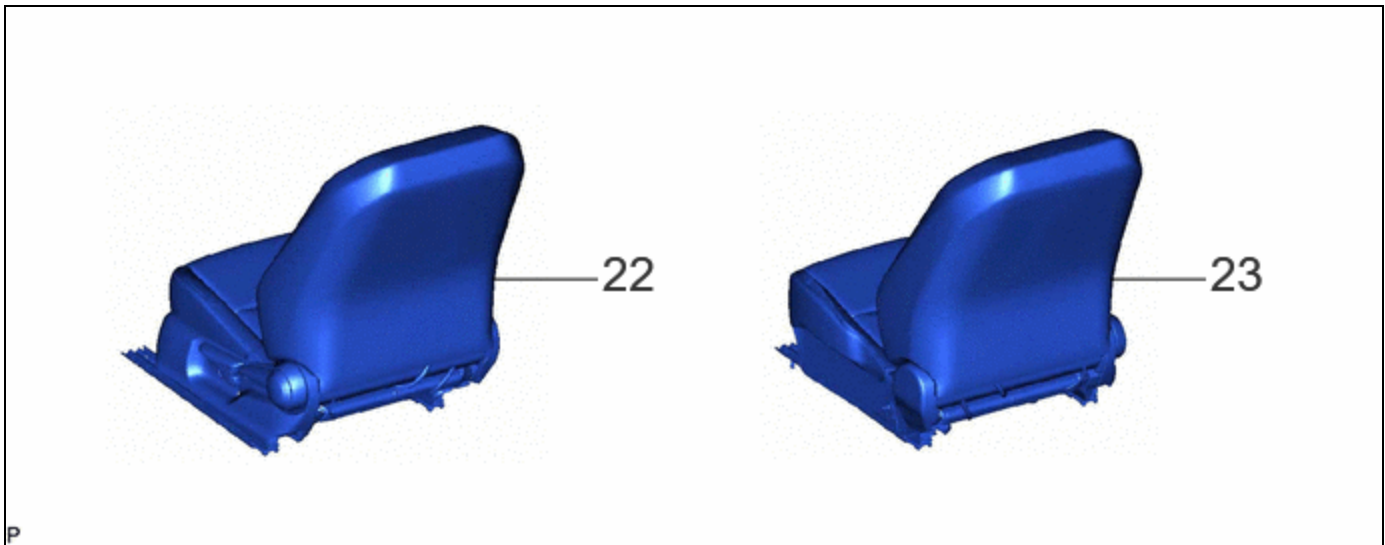
*A	w/ Telematics Transceiver	*B	w/ Driver Monitor Camera
	N*m (kgf*cm, ft.*lbf): Specified torque	-	-



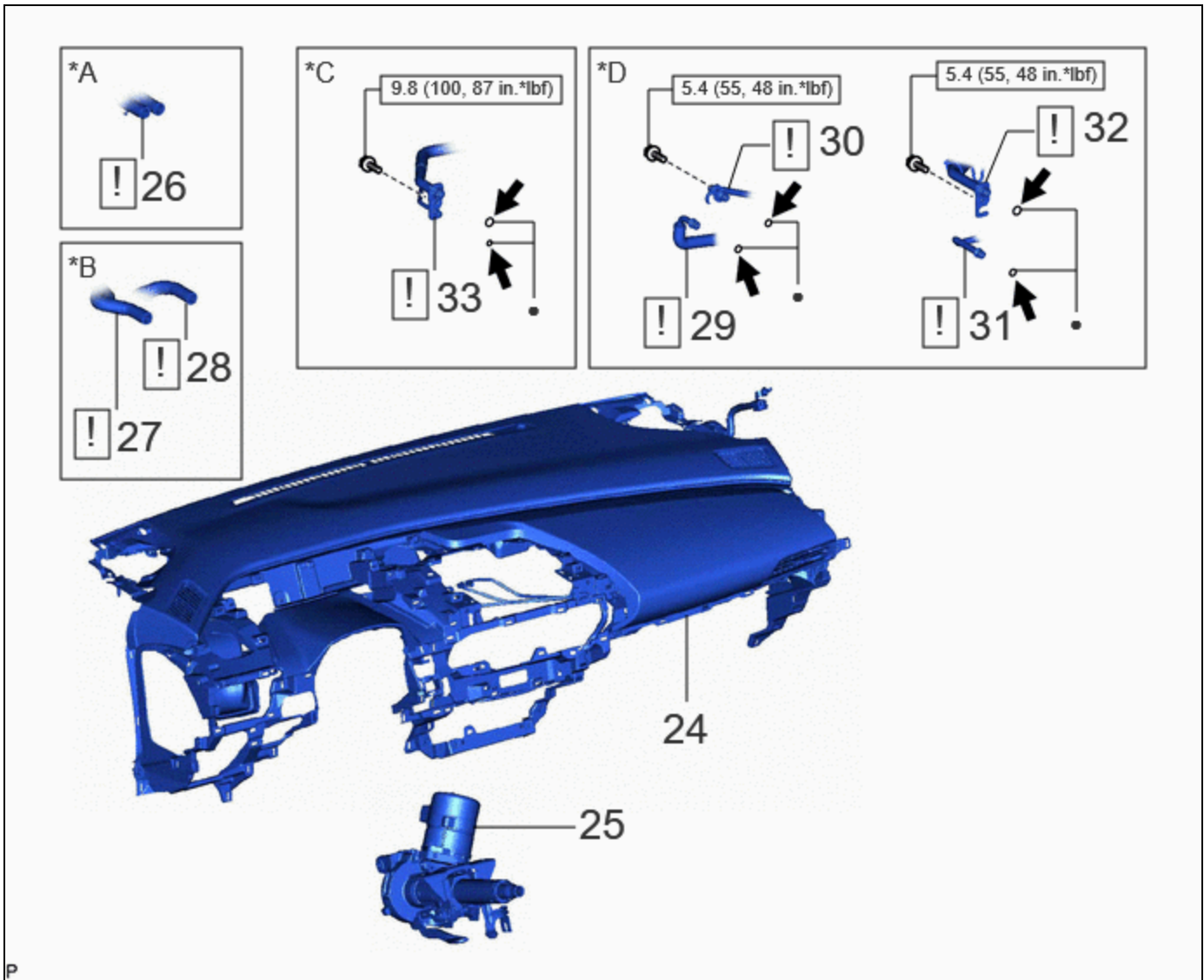
PROCEDURE		PART NAME CODE			
13	NO. 3 DASH PANEL INSULATOR PAD	55215D	<a href="#">INFO</a>	-	-
14	REAR NO. 3 AIR DUCT	87215F	-	-	-
15	REAR NO. 1 AIR DUCT	87212	-	-	-
16	REAR NO. 2 AIR DUCT	87213	-	-	-
17	REAR NO. 4 AIR DUCT	87216B	-	-	-
18	REAR NO. 5 AIR DUCT	87217C	-	-	-
19	FRONT FLOOR CARPET ASSEMBLY	58510D	-	-	-
20	COOLER (ROOM TEMP. SENSOR) THERMISTOR	88625Q	-	-	-
21	ACCELERATOR PEDAL (WITH SENSOR) ROD ASSEMBLY	78110K	-	-	-

*A	w/ Rear Air Duct	-	-
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

•	Non-reusable part	-	-
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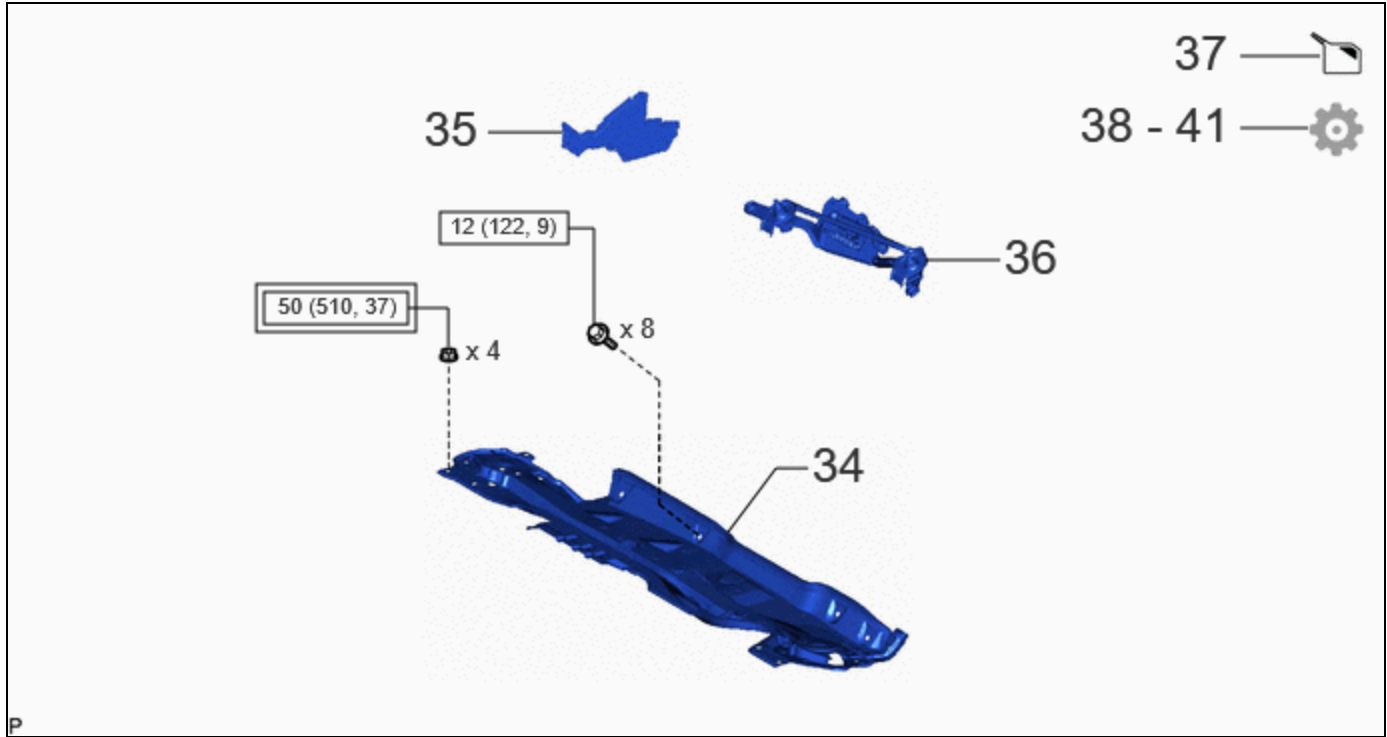





PROCEDURE		PART NAME CODE			
22	FRONT SEAT ASSEMBLY LH	-	-	-	-
23	FRONT SEAT ASSEMBLY RH	-	-	-	-





PROCEDURE		PART NAME CODE			
24	INSTRUMENT PANEL SAFETY PAD SUB-ASSEMBLY	-	-	-	-
25	STEERING COLUMN ASSEMBLY	-	-	-	-
26	WATER HOSE SUB-ASSEMBLY	87209	<a href="#">INFO</a>	-	-
27	INLET HEATER WATER HOSE	87245	<a href="#">INFO</a>	-	-
28	OUTLET HEATER WATER HOSE	87246	<a href="#">INFO</a>	-	-
29	NO. 2 DISCHARGE HOSE SUB-ASSEMBLY	88703B	<a href="#">INFO</a>	-	-
30	DISCHARGE TUBE SUB-ASSEMBLY	88705A	<a href="#">INFO</a>	-	-
31	NO. 7 DISCHARGE TUBE	88G15H	<a href="#">INFO</a>	-	-
32	NO. 1 SUCTION TUBE	88717U	<a href="#">INFO</a>	-	-
33	SUCTION PIPE SUB-ASSEMBLY	88707	<a href="#">INFO</a>	-	-

*A	for M20A-FXS	*B	for 2ZR-FXE
*C	for HEV Model	*D	for PHEV Model
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part
	Compressor oil ND-OIL 11 or equivalent	-	-

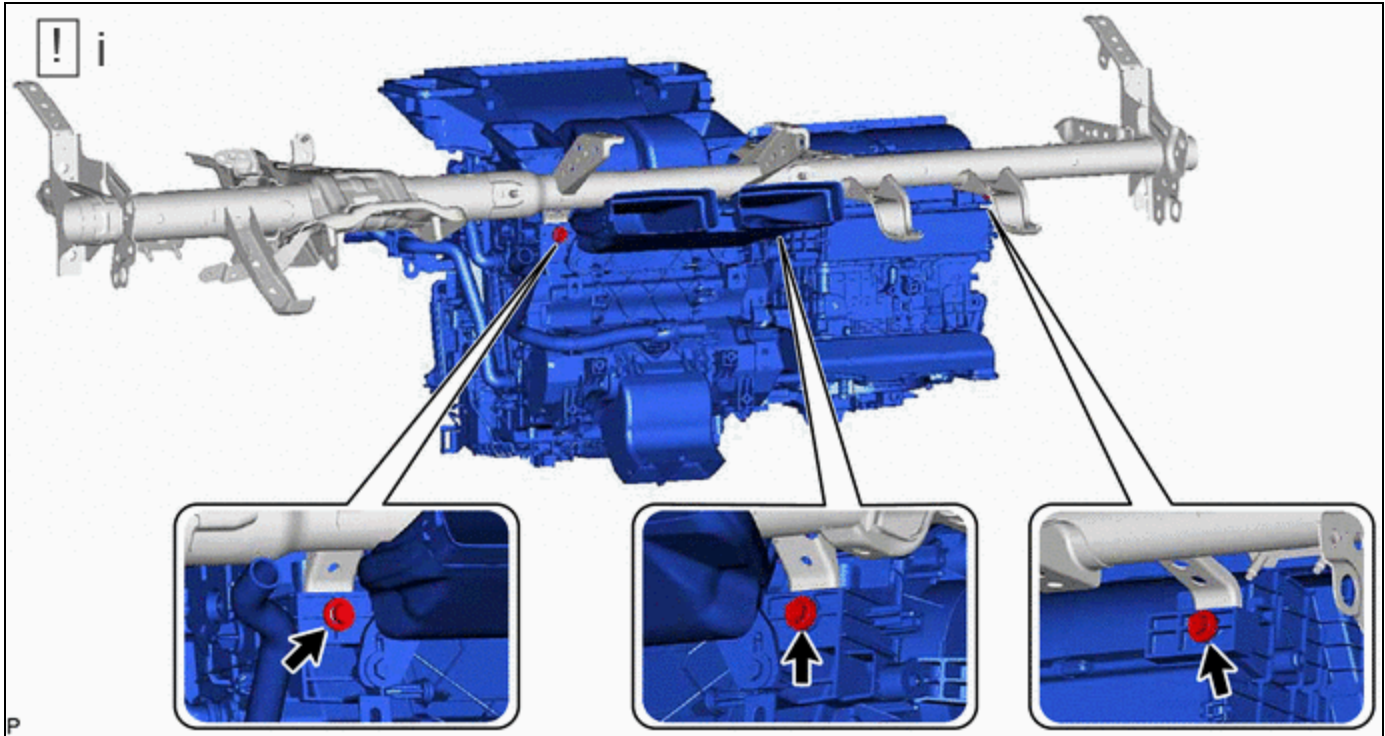


PROCEDURE		PART NAME CODE			
34	OUTER COWL TOP PANEL SUB-ASSEMBLY	55701J	-	-	-
35	WATER GUARD PLATE	55734D	-	-	-
36	WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY	-	-	-	-
37	ADD ENGINE COOLANT (for Engine)	-	-	INFO	-
38	INSPECT FOR COOLANT LEAK (for Engine)	-	-	-	INFO
39	CHARGE AIR CONDITIONING SYSTEM WITH REFRIGERANT	-	-	-	INFO
40	WARM UP COMPRESSOR	-	-	-	INFO
41	INSPECT FOR REFRIGERANT LEAK	-	-	-	INFO

	<p>Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping": N*m (kgf*cm, ft.*lbf)</p>		<p>N*m (kgf*cm, ft.*lbf): Specified torque</p>
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## PROCEDURE

### 1. TEMPORARILY INSTALL AIR CONDITIONER UNIT ASSEMBLY

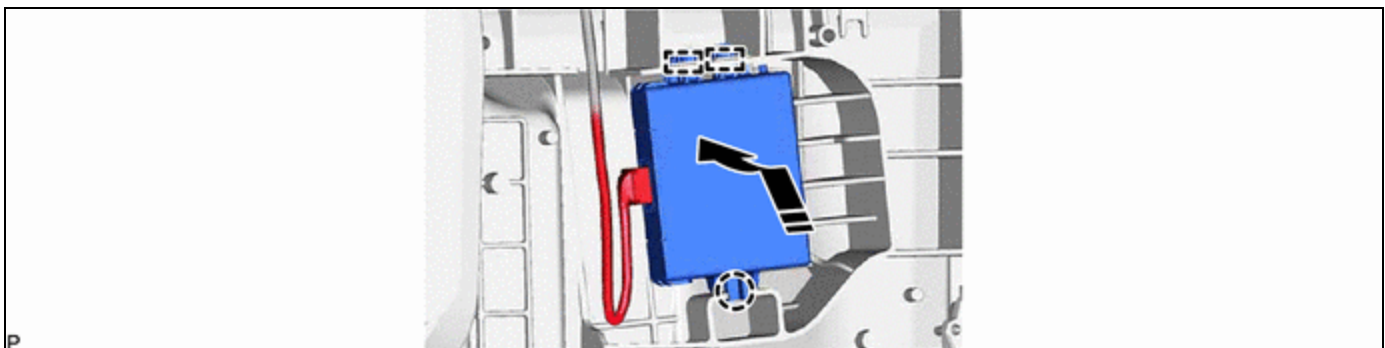


(1) Temporarily install the air conditioner unit assembly to the instrument panel reinforcement assembly with the 3 bolts.


### 2. INSTALL INSTRUMENT PANEL REINFORCEMENT ASSEMBLY WITH AIR CONDITIONER UNIT ASSEMBLY

	<p><b>NOTICE:</b></p> <ul style="list-style-type: none"> <li>• Be sure to support the air conditioner unit assembly when installing it. Failure to do so may cause the bracket of the air conditioner unit assembly to break.</li> <li>• When installing the air conditioner unit assembly, eliminate static electricity by touching the vehicle body to prevent the components from being damaged.</li> </ul>
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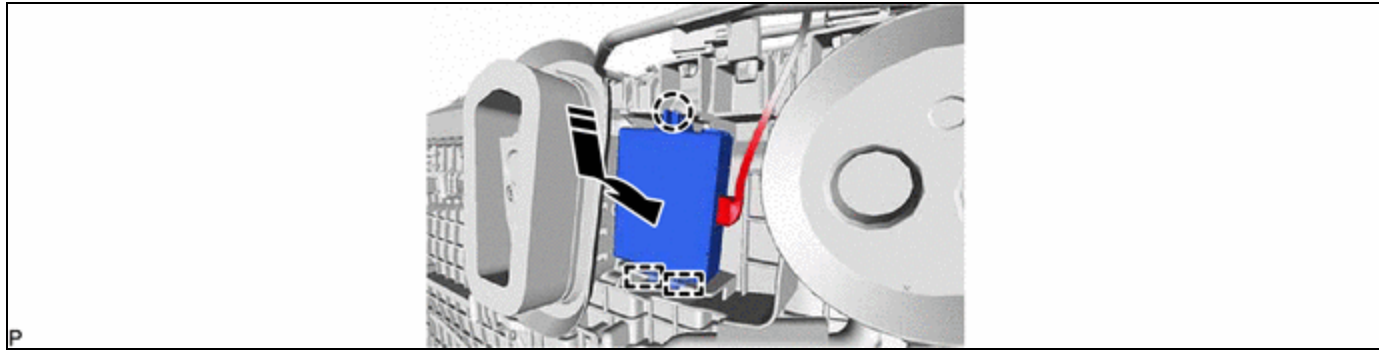
(a) for HEV Model:






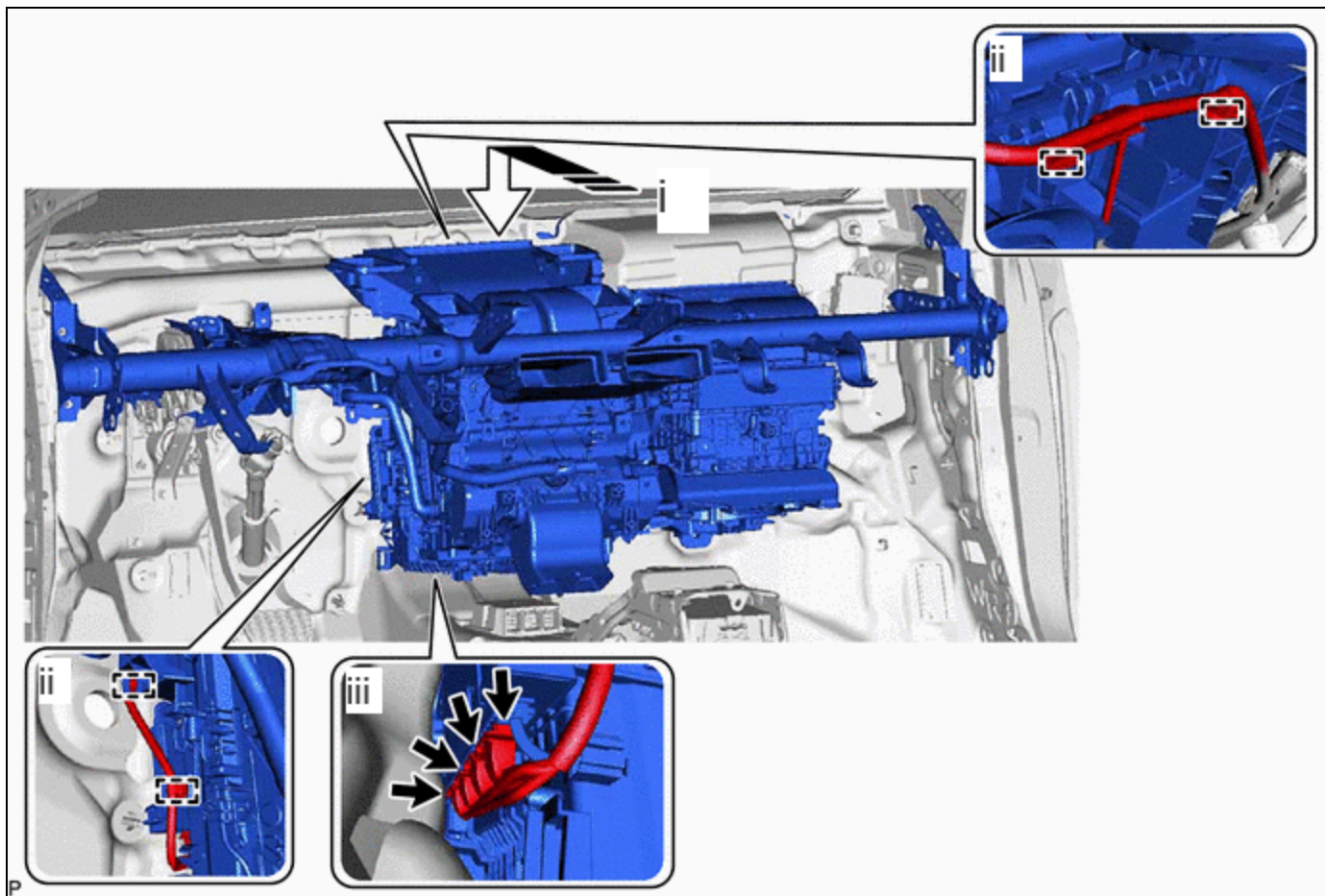
	Install in this Direction	-	-
---	---------------------------	---	---


(b) for PHEV Model:



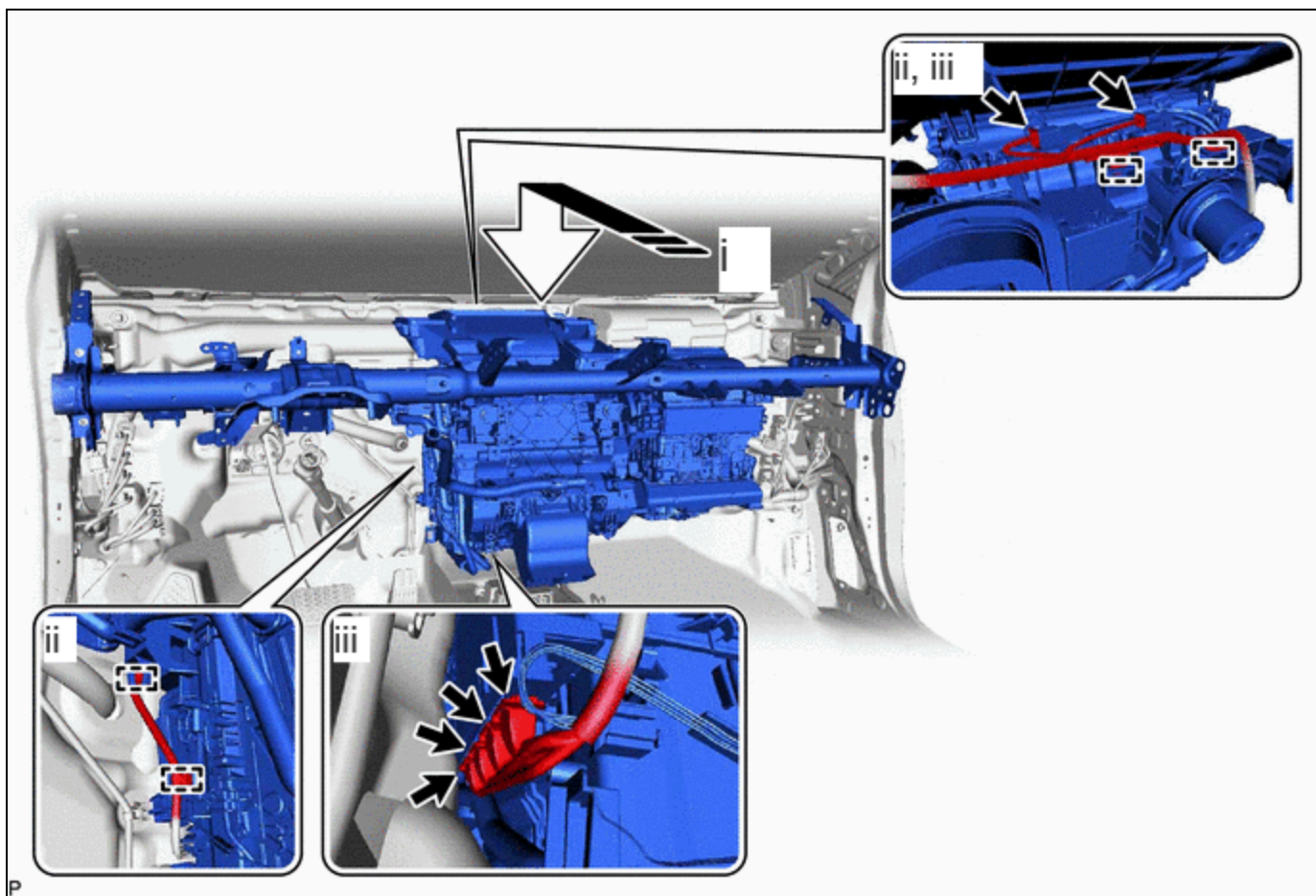
	Install in this Direction	-	-
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(c) for HEV Model:



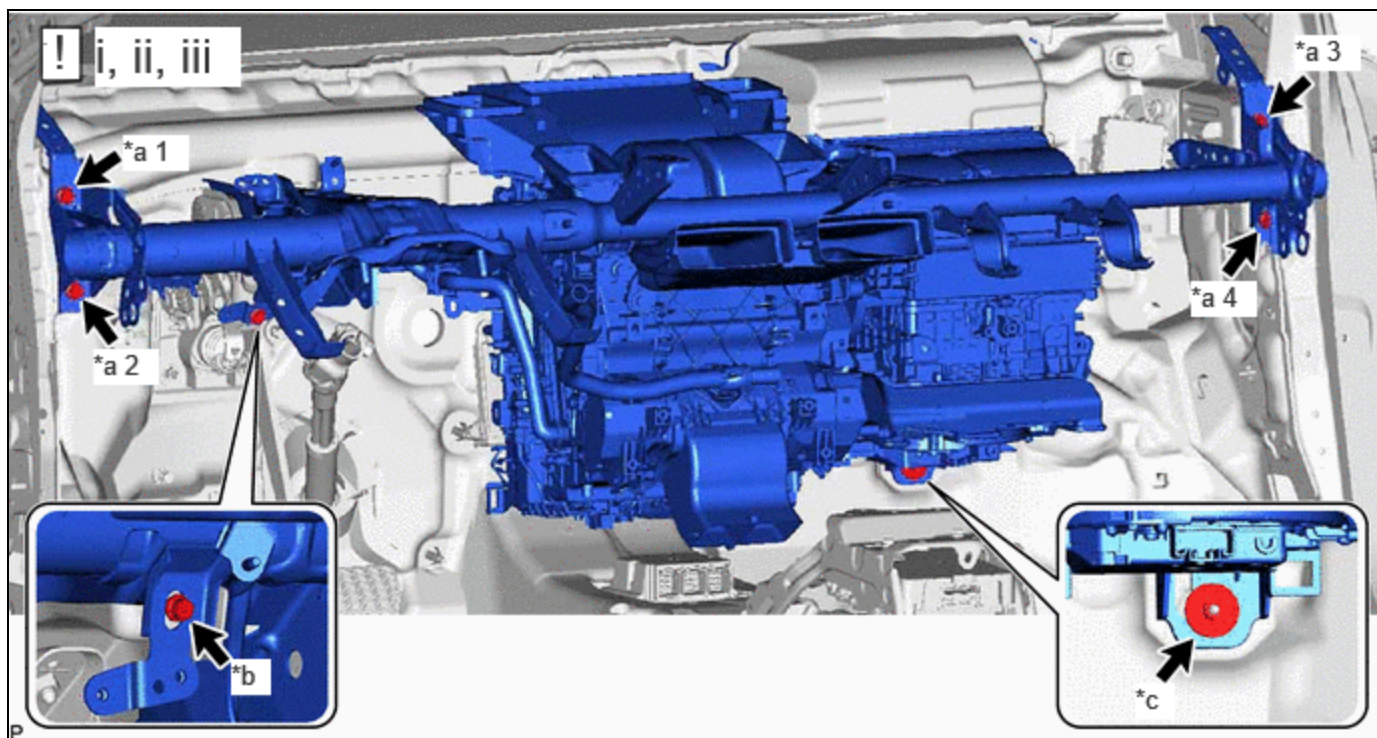
	Install in this Direction	-	-
---	---------------------------	---	---

- (1) Temporarily install the instrument panel reinforcement assembly with air conditioner unit assembly as shown in the illustration.
- (2) Engage each clamp.
- (3) Connect each connector.
- (d) for PHEV Model:



	Install in this Direction	-	-
---	---------------------------	---	---

- (1) Temporarily install the instrument panel reinforcement assembly with air conditioner unit assembly as shown in the illustration.
- (2) Engage each clamp.
- (3) Connect each connector.



*a	Bolt (A)	*b	Bolt (B)
*c	Nut	-	-

- (1) Install the instrument panel reinforcement assembly with air conditioner unit assembly with the 4 bolts (A).

**Torque:**

**25 N·m {255 kgf·cm, 18 ft·lbf}**

**NOTICE:**

Tighten the bolts in the order shown in the illustration.

- (2) Install the bolt (B).

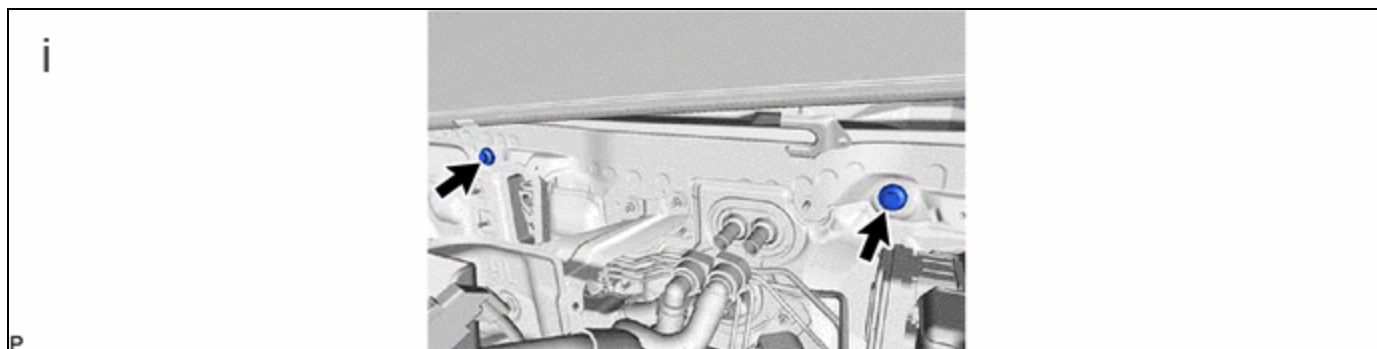
**Torque:**

**15 N·m {153 kgf·cm, 11 ft·lbf}**

- (3) Temporarily install the nut.

**HINT:**

Do not fully tighten the nut.

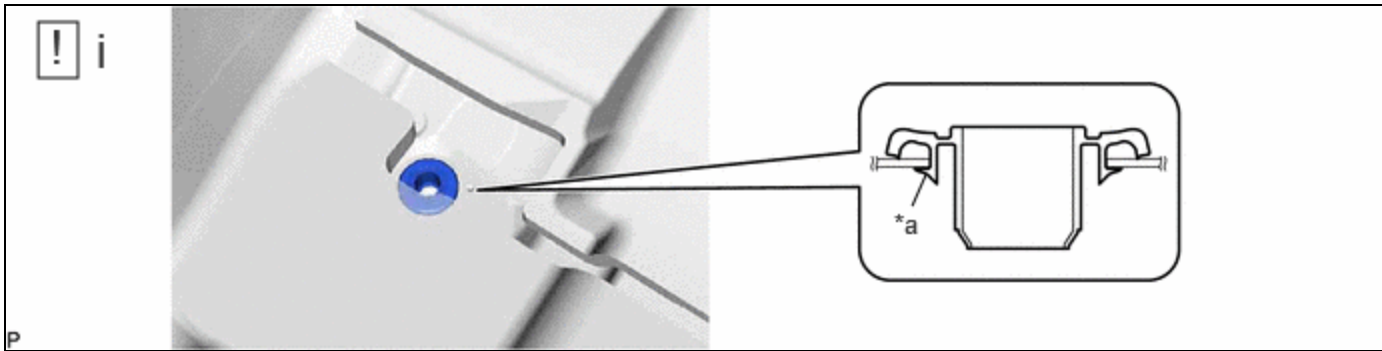


- (1) Install the 2 bolts.

**Torque:**

**25 N·m {255 kgf·cm, 18 ft·lbf}**

### 3. INSTALL COOLER UNIT DRAIN HOSE GROMMET



*a	Lip	-	-
----	-----	---	---

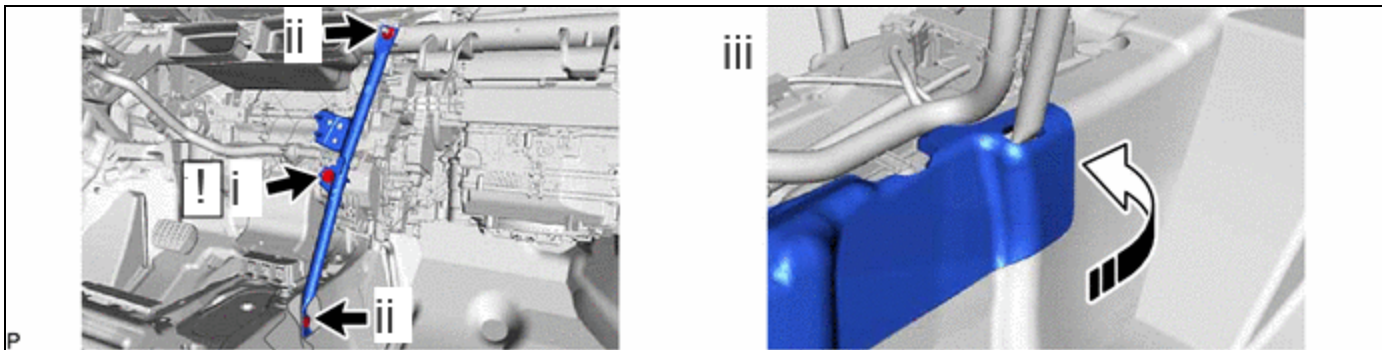
(1) Install a new cooler unit drain hose grommet.

**NOTICE:**

- If the drain cooler hose is disconnected from the cooler unit drain hose grommet, make sure to replace the cooler unit drain hose grommet with a new one. Failure to do so may lead to water ingress.
- Make sure that the entire lip of the cooler unit drain hose grommet is securely engaged to the vehicle body.

### 4. CONNECT DRAIN COOLER HOSE

### 5. INSTALL NO. 2 INSTRUMENT PANEL BRACE SUB-ASSEMBLY



	Install in this Direction	-	-
--	---------------------------	---	---

(1) Temporarily install the screw.

**HINT:**

Do not fully tighten the screw.

(2) Install the No. 2 instrument panel brace sub-assembly with the bolt and nut.

**Torque:**

**Bolt :**

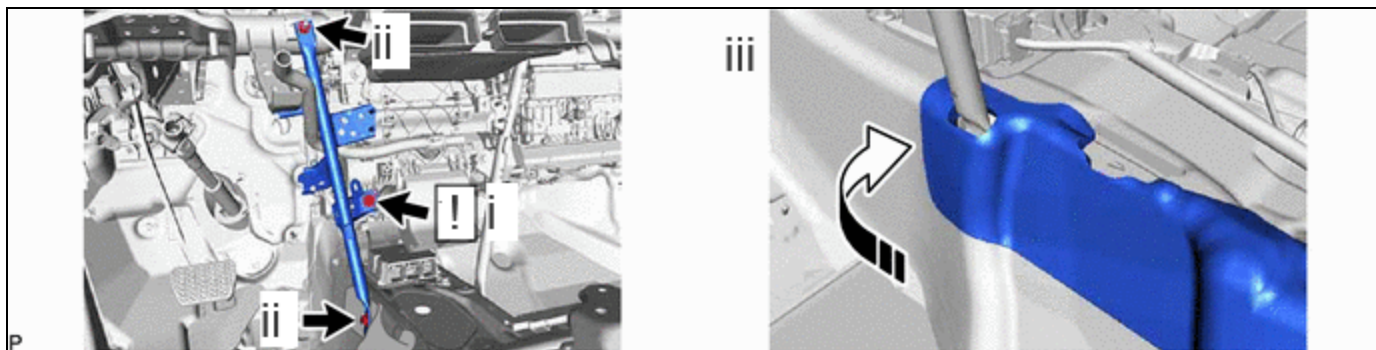
**20 N·m {204 kgf·cm, 15 ft·lbf}**


**Nut :**

**18 N·m {184 kgf·cm, 13 ft·lbf}**

(3) Install the front floor mat to the original position as shown in the illustration.

### 6. INSTALL NO. 1 INSTRUMENT PANEL BRACE SUB-ASSEMBLY



	Install in this Direction	-	-
---	---------------------------	---	---

(1) Temporarily install the screw.

**HINT:**

Do not fully tighten the screw.

(2) Install the No. 1 instrument panel brace sub-assembly with the bolt and nut.

**Torque:**

**Bolt :**

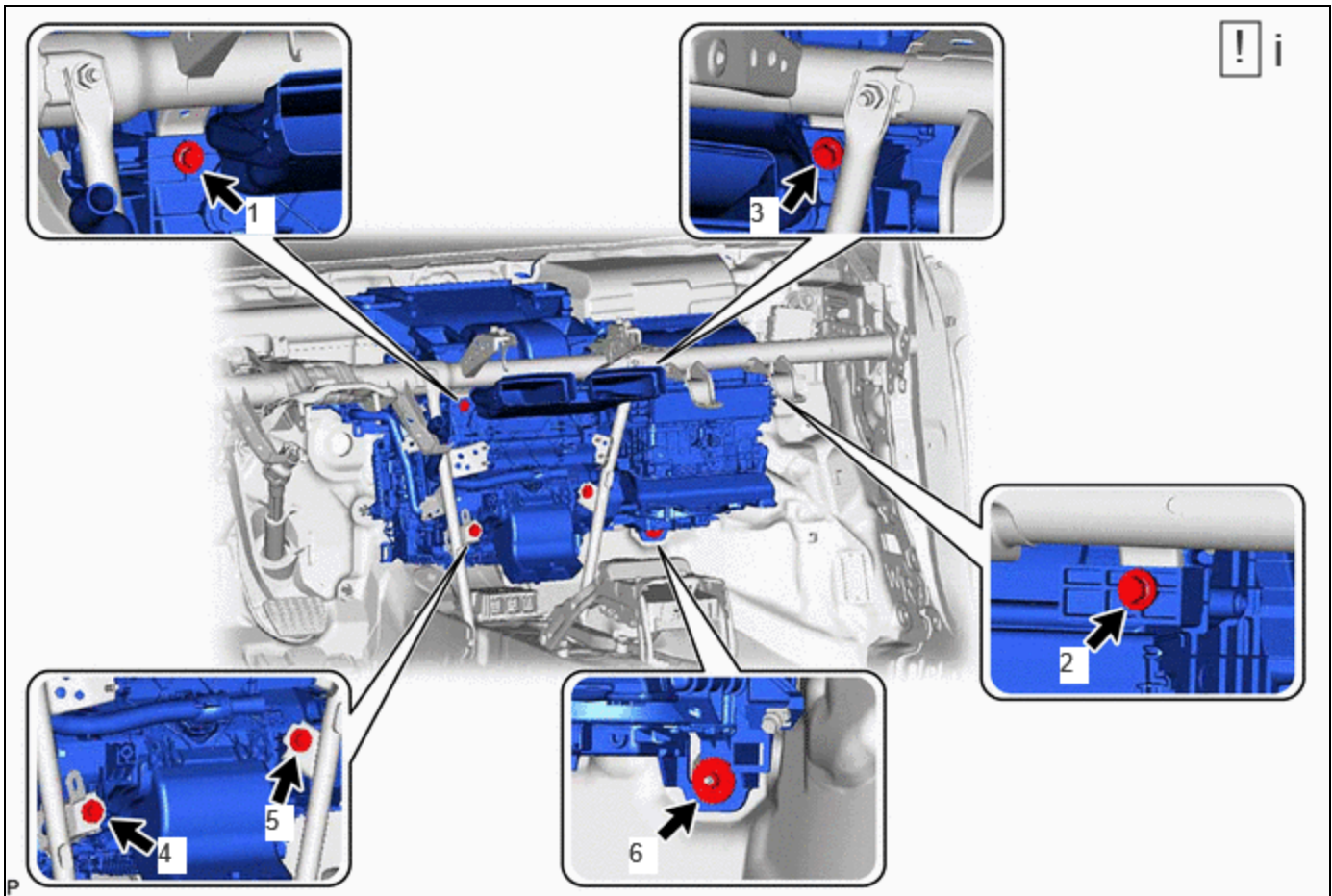
**20 N·m {204 kgf·cm, 15 ft·lbf}**

**Nut :**

**18 N·m {184 kgf·cm, 13 ft·lbf}**

(3) Install the front floor mat to the original position as shown in the illustration.

**7. INSTALL AIR CONDITIONER UNIT ASSEMBLY**



(1) Tighten the 3 bolts, nut and 2 screws to install the air conditioner unit assembly.

**Torque:**

**Bolt :**

**9.8 N·m {100 kgf·cm, 87 in·lbf}**

**Nut :**

**9.8 N·m {100 kgf·cm, 87 in·lbf}**

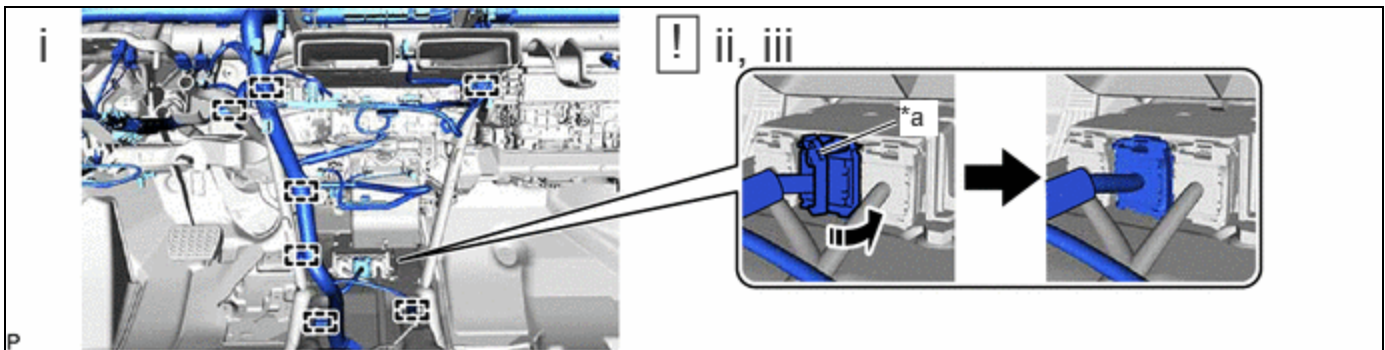
**NOTICE:**

Tighten the bolts, nut and screws in the order shown in the illustration.


**8. CONNECT INSTRUMENT PANEL WIRE**

**HINT:**

The illustration shown is an example only. The illustration may differ from the actual parts according to the model.



*a	Lock Lever	-	-
----	------------	---	---

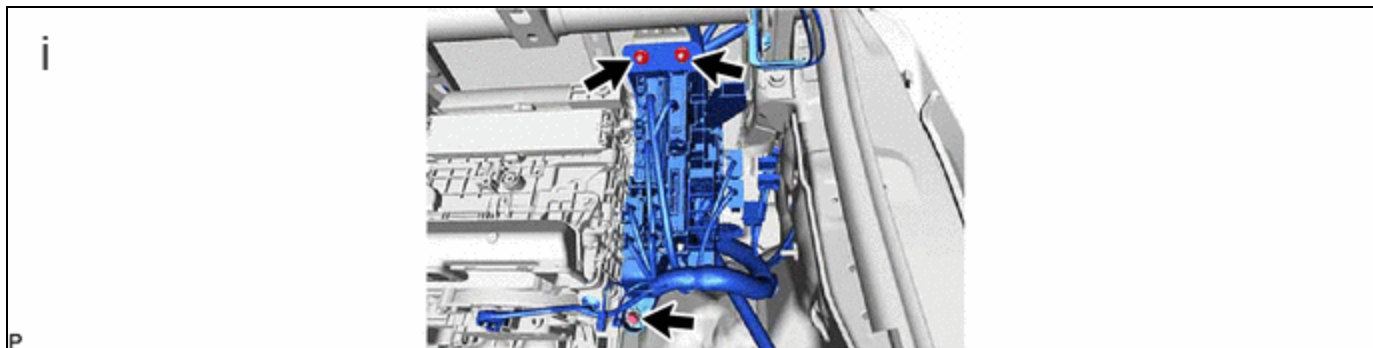
	Move in this Direction	-	-
---	------------------------	---	---

- (1) Engage each clamp.
- (2) Temporarily connect the connector and then move the lock lever as shown in the illustration to securely connect the connector.

**NOTICE:**

When connecting any airbag connector, take care not to damage the airbag wire harness.

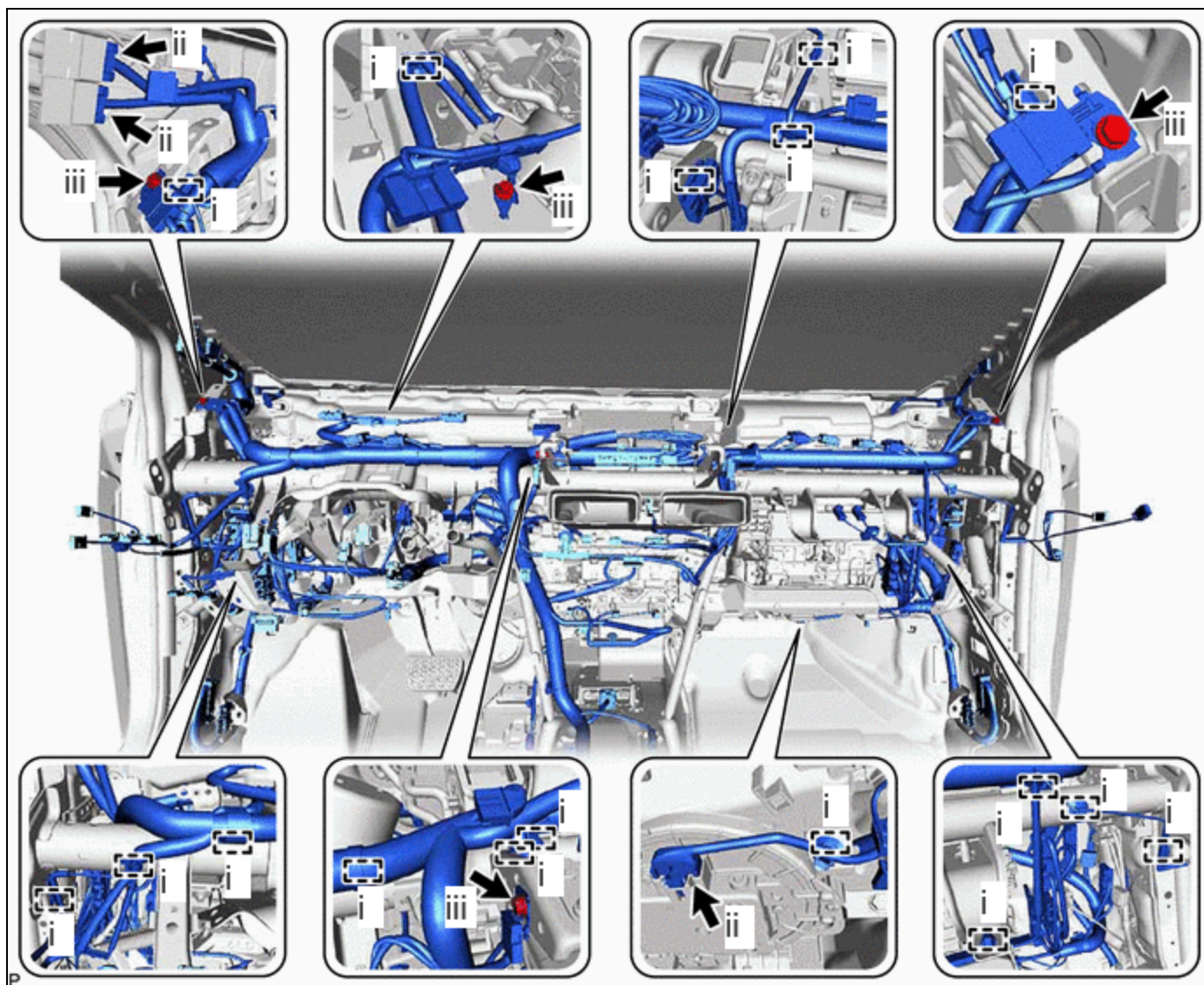
- (3) Check that there is no looseness in the installed parts of the airbag sensor assembly.



- (1) Connect the connector holder with the bolt and 2 nuts.

**Torque:**

**8.0 N·m {82 kgf·cm, 71 in·lbf}**



- (1) Engage each clamp to connect the instrument panel wire.
- (2) Connect each connector.
- (3) Connect the 4 earth wires with the 4 bolts.

**Torque:**

**8.5 N·m {87 kgf·cm, 75 in·lbf}**

**9. INSTALL JUNCTION BLOCK BRACKET WITH POWER DISTRIBUTION BOX ASSEMBLY**



**10. INSTALL NO. 3 INSTRUMENT PANEL TO COWL BRACE SUB-ASSEMBLY**

Click here [INFO](#)

**11. INSTALL DRIVER MONITOR ECU ASSEMBLY (w/ Driver Monitor Camera)**

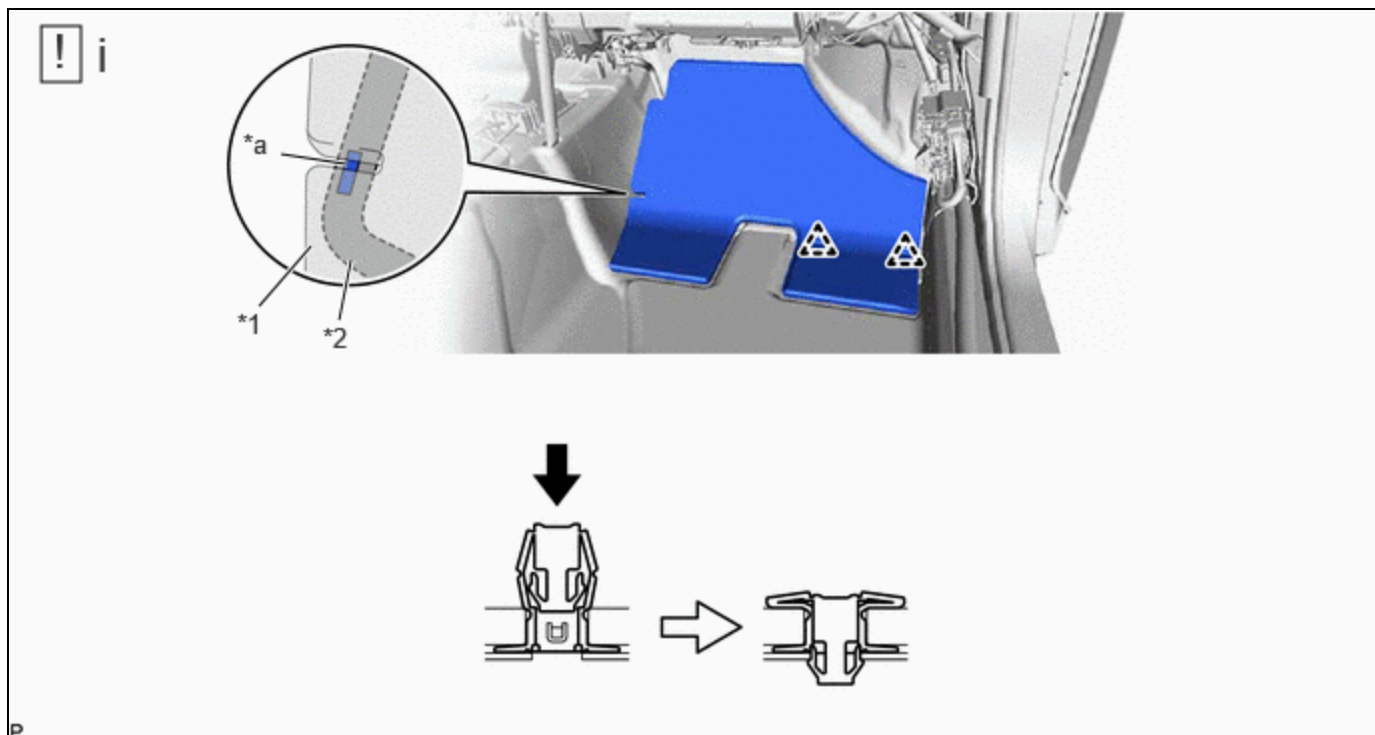
Click here [INFO](#)

**12. INSTALL DCM (TELEMATICS TRANSCEIVER) WITH BRACKET (w/ Telematics Transceiver)**



Click here [INFO](#)

### 13. INSTALL NO. 3 DASH PANEL INSULATOR PAD



*1	No. 3 Dash Panel Insulator Pad	*2	Drain Cooler Hose
*a	Paint Mark	-	-

(1) Install the No. 3 dash panel insulator pad with 2 new clips as shown in the illustration.

#### NOTICE:

After installing the No. 3 dash panel insulator pad, check that the paint mark of the drain cooler hose can be seen from the position shown in the illustration.

### 14. INSTALL REAR NO. 3 AIR DUCT (w/ Rear Air Duct)

### 15. INSTALL REAR NO. 1 AIR DUCT (w/ Rear Air Duct)

### 16. INSTALL REAR NO. 2 AIR DUCT (w/ Rear Air Duct)

### 17. INSTALL REAR NO. 4 AIR DUCT (w/ Rear Air Duct)

### 18. INSTALL REAR NO. 5 AIR DUCT (w/ Rear Air Duct)

### 19. INSTALL FRONT FLOOR CARPET ASSEMBLY

### 20. INSTALL COOLER (ROOM TEMP. SENSOR) THERMISTOR

### 21. INSTALL ACCELERATOR PEDAL (WITH SENSOR) ROD ASSEMBLY

Click here [INFO](#)

### 22. INSTALL FRONT SEAT ASSEMBLY LH

(a) for Manual Seat:

Click here [INFO](#)

(b) for Power Seat:

Click here [INFO](#)

**23. INSTALL FRONT SEAT ASSEMBLY RH**

(a) Use the same procedure as for the LH side.

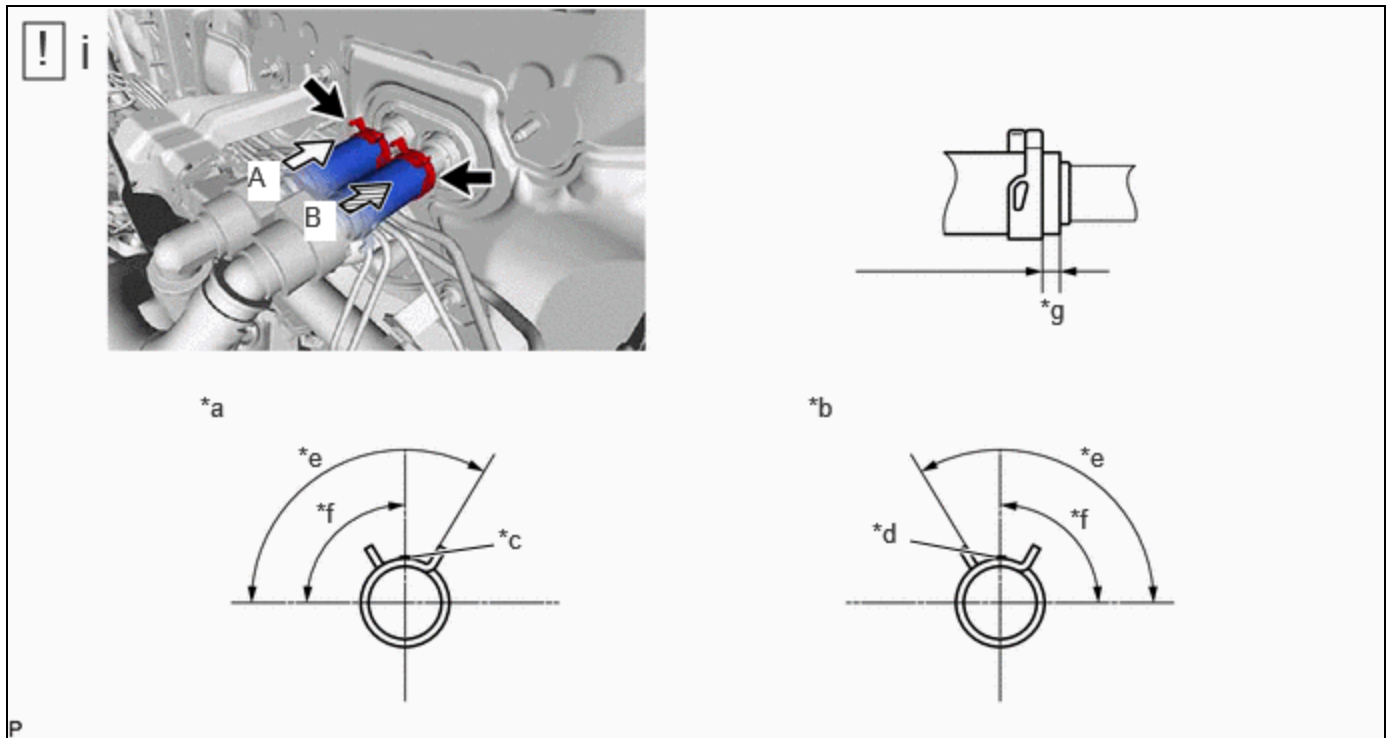
**24. INSTALL INSTRUMENT PANEL SAFETY PAD SUB-ASSEMBLY**

Click here [INFO](#)

**25. INSTALL STEERING COLUMN ASSEMBLY**

Click here [INFO](#)

**26. CONNECT WATER HOSE SUB-ASSEMBLY (for M20A-FXS)**



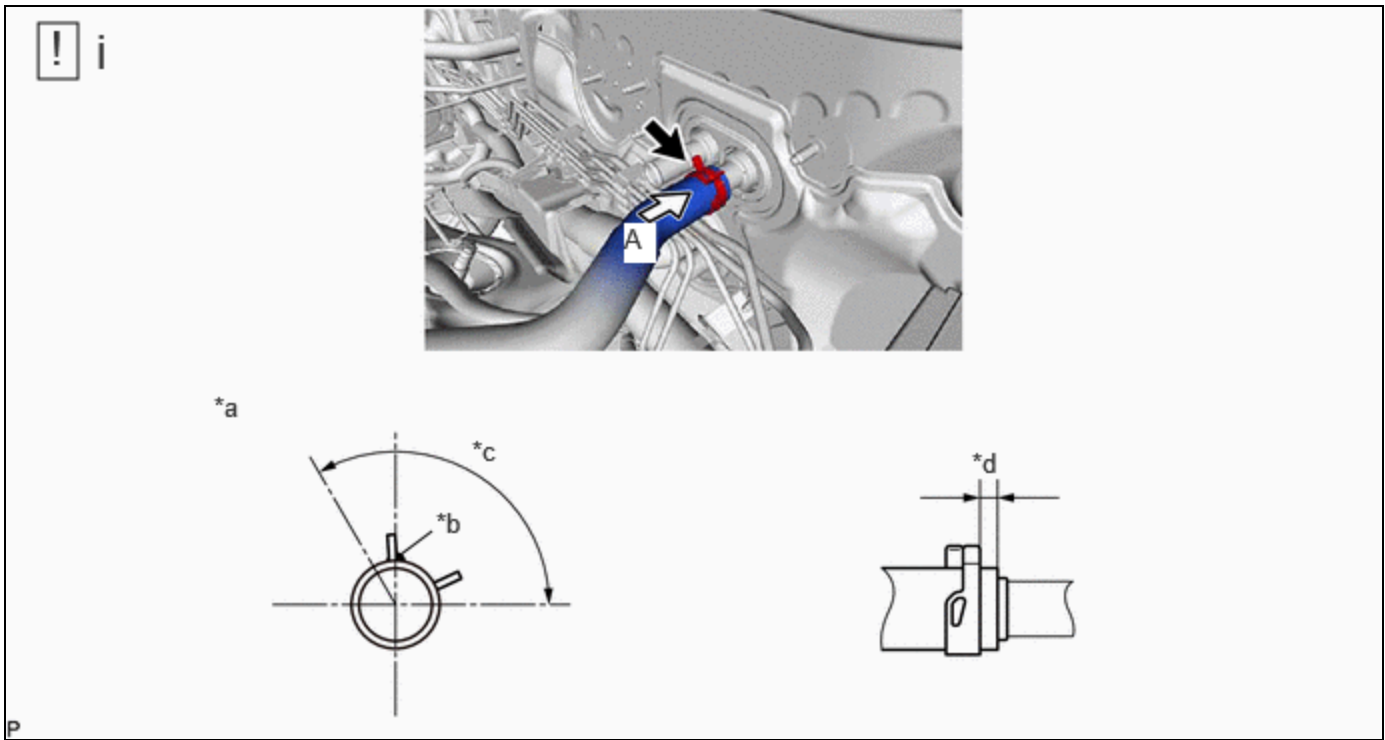
*a	View A	*b	View B
*c	Marking (Purple)	*d	Marking (Yellow)
*e	Hose Clip Installation Range (120°)	*f	90°
*g	Hose Clip Installation Range (2.0 to 6.0 mm (0.0787 to 0.236 in.))	-	-

(1) Connect the water hose sub-assembly with the marking facing up and engage the hose clips within the area shown in the illustration.

**NOTICE:**

Do not apply excessive force to the water hose sub-assembly.

**27. CONNECT INLET HEATER WATER HOSE (for 2ZR-FXE)**



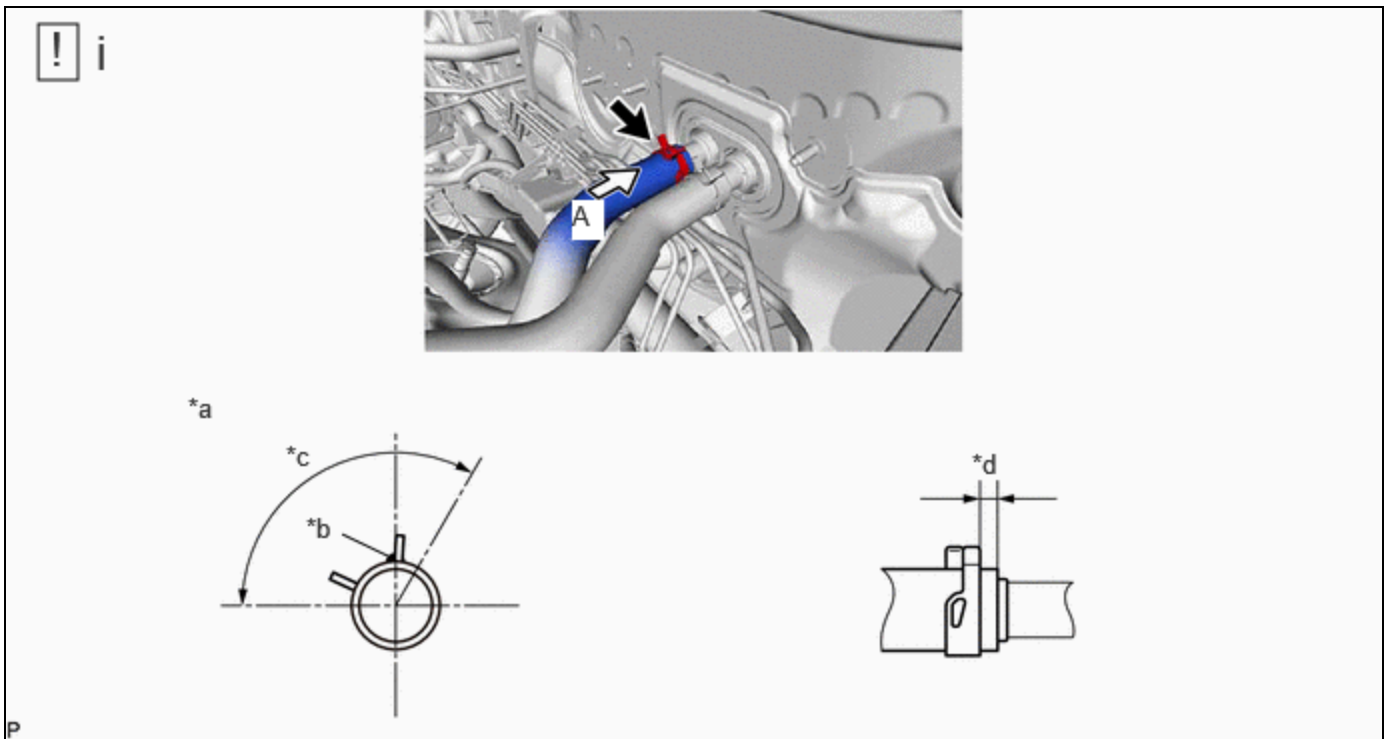
*a	View A	*b	Marking (Blue)
*c	Hose Clip Installation Range (120°)	*d	Hose Clip Installation Range (2.0 to 7.0 mm (0.0787 to 0.276 in.))

(1) Connect the inlet heater water hose with the marking facing up and engage the clip within the area shown in the illustration.

**NOTICE:**

Do not apply excessive force to the inlet heater water hose.

**28. CONNECT OUTLET HEATER WATER HOSE (for 2ZR-FXE)**



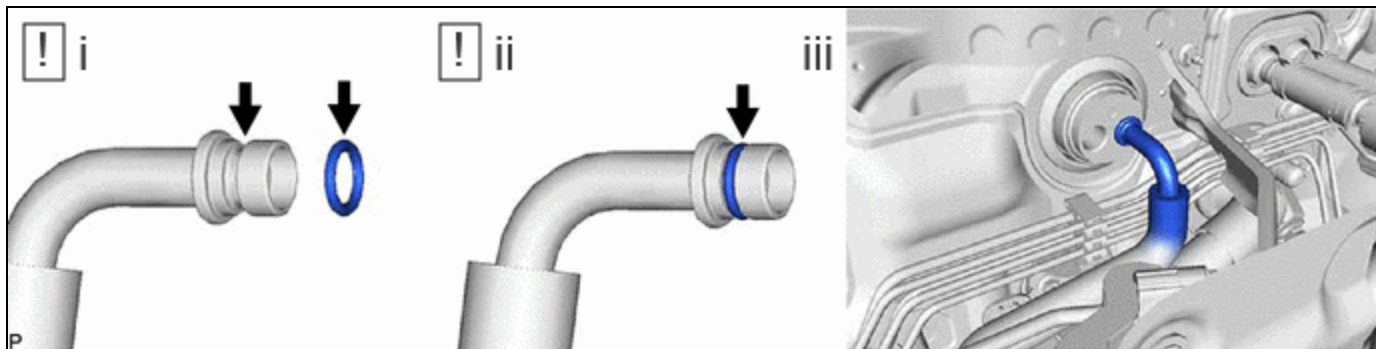
*a	View A	*b	Marking (Pink)
*c	Hose Clip Installation Range (120°)	*d	Hose Clip Installation Range (2.0 to 7.0 mm (0.0787 to 0.276 in.))

- (1) Connect the outlet heater water hose with the marking facing up and engage the clip within the area shown in the illustration.

**NOTICE:**

Do not apply excessive force to the outlet heater water hose.

**29. CONNECT NO. 2 DISCHARGE HOSE SUB-ASSEMBLY (for PHEV Model)**



- (1) Remove the vinyl tape from the No. 2 discharge hose sub-assembly, sufficiently apply compressor oil to a new O-ring and the fitting surface of the No. 2 discharge hose sub-assembly.

Compressor Oil:

ND-OIL 11 or equivalent

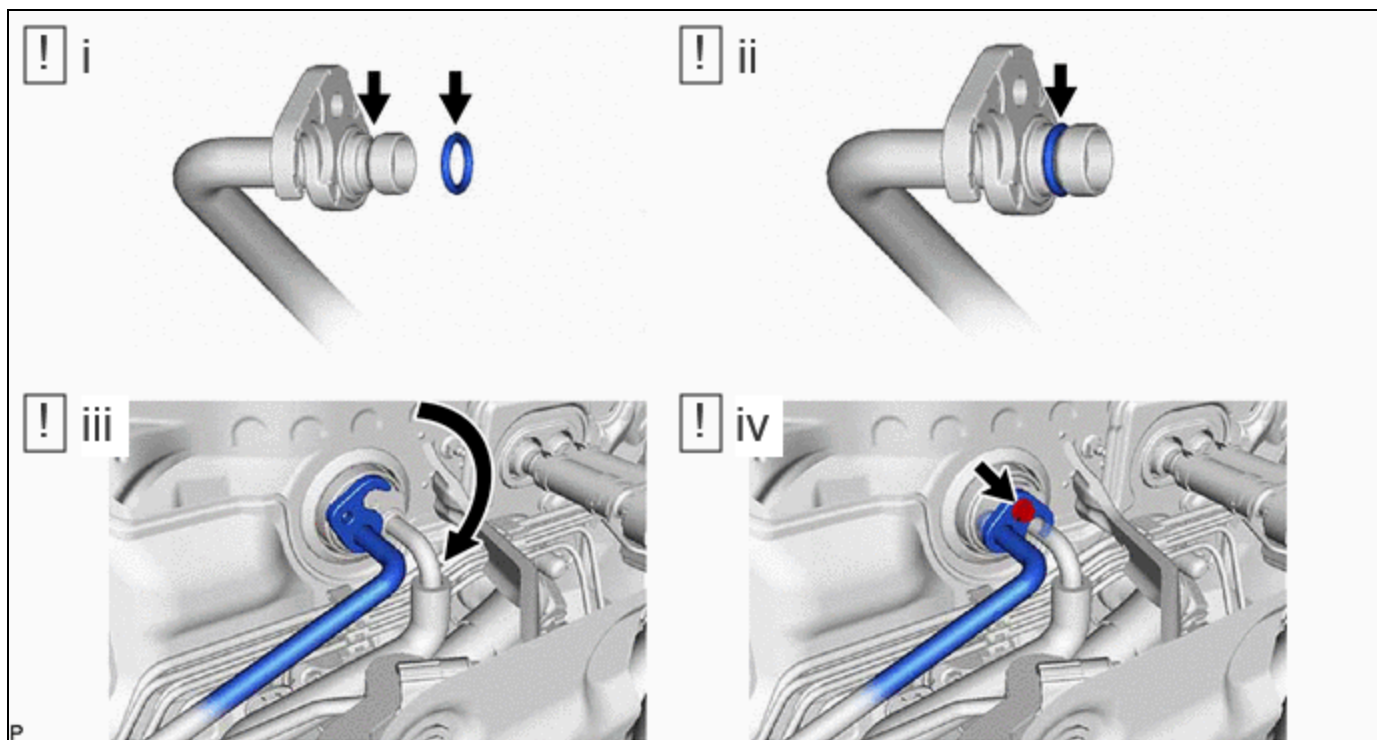
- (2) Install the O-ring to the No. 2 discharge hose sub-assembly.

**NOTICE:**

Keep the O-ring and O-ring fitting surface free of foreign matter.

- (3) Connect the No. 2 discharge hose sub-assembly.

**30. CONNECT DISCHARGE TUBE SUB-ASSEMBLY (for PHEV Model)**



- (1) Remove the vinyl tape from the discharge tube sub-assembly, sufficiently apply compressor oil to a new O-ring and the fitting surface of the discharge tube sub-assembly.

Compressor Oil:

ND-OIL 11 or equivalent

- (2) Install the O-ring to the discharge tube sub-assembly.

**NOTICE:**

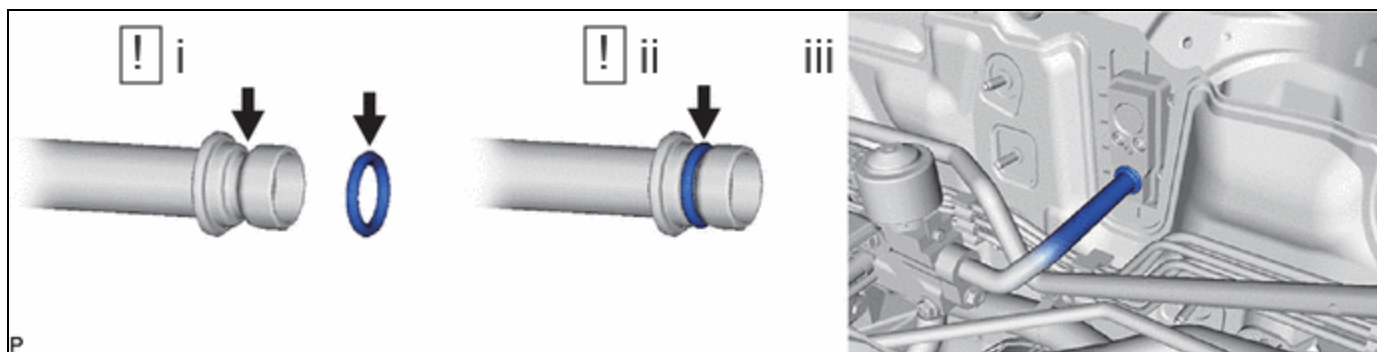
Keep the O-ring and O-ring fitting surface free of foreign matter.

- (3) Connect the discharge tube sub-assembly and rotate the hook connector as shown in the illustration.
- (4) Insert the tube joint into the fitting hole securely and install the bolt.

**Torque:**

**5.4 N·m {55 kgf·cm, 48 in·lbf}**

### 31. CONNECT NO. 7 DISCHARGE TUBE (for PHEV Model)



- (1) Remove the vinyl tape from the No. 7 discharge tube, sufficiently apply compressor oil to a new O-ring and the fitting surface of the No. 7 discharge tube.

Compressor Oil:

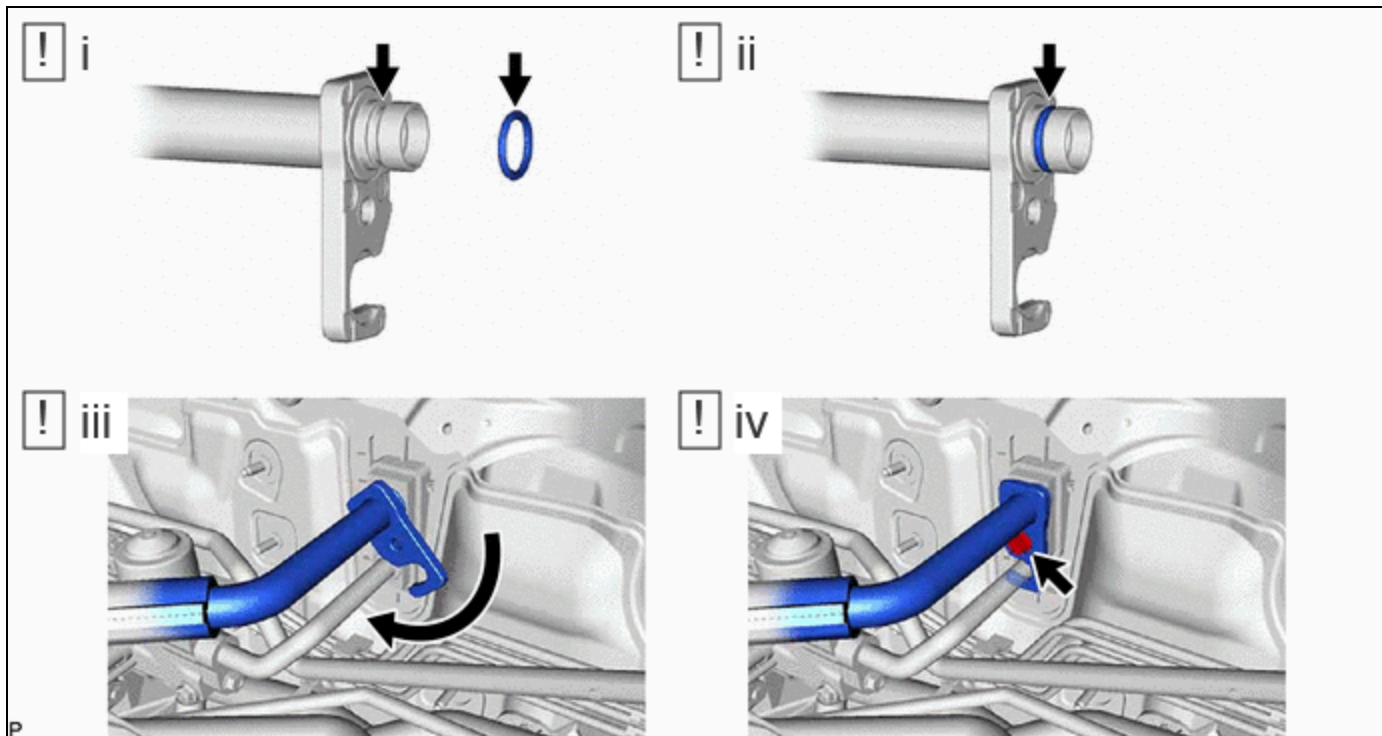
ND-OIL 11 or equivalent

- (2) Install the O-ring to the No. 7 discharge tube.

**NOTICE:**

Keep the O-ring and O-ring fitting surface free of foreign matter.

(3) Connect the No. 7 discharge tube.

**32. CONNECT NO. 1 SUCTION TUBE (for PHEV Model)**

(1) Remove the vinyl tape from the No. 1 suction tube, sufficiently apply compressor oil to a new O-ring and the fitting surface of the No. 1 suction tube.

Compressor Oil:  
ND-OIL 11 or equivalent

(2) Install the O-ring to the No. 1 suction tube.

**NOTICE:**

Keep the O-ring and O-ring fitting surface free of foreign matter.

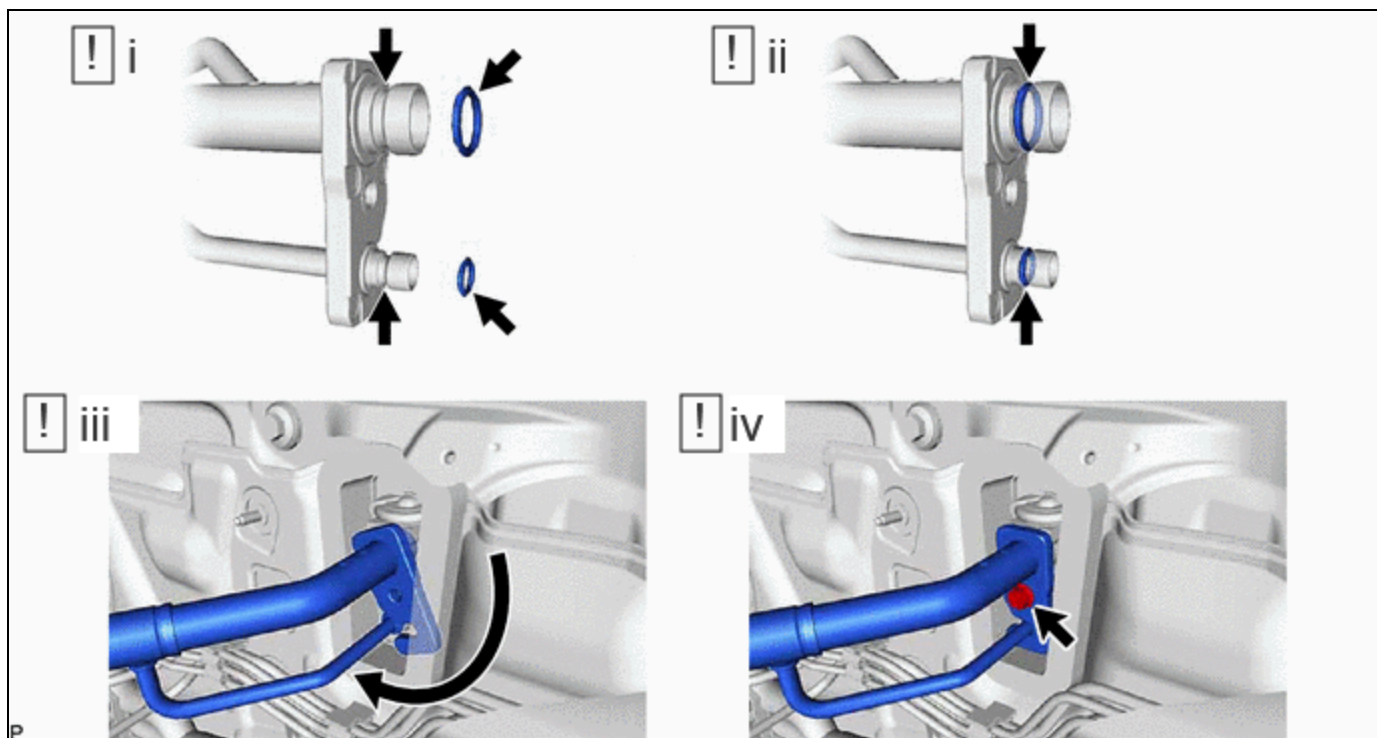
(3) Connect the No. 1 suction tube and rotate the hook connector as shown in the illustration.

(4) Insert the tube joint into the fitting hole securely and install the bolt.

**Torque:**

**5.4 N·m {55 kgf·cm, 48 in·lbf}**

**33. CONNECT SUCTION PIPE SUB-ASSEMBLY (for HEV Model)**



- (1) Remove the vinyl tape from the suction pipe sub-assembly, sufficiently apply compressor oil to 2 new O-rings and the fitting surface of the suction pipe sub-assembly.

Compressor Oil:

ND-OIL 11 or equivalent

- (2) Install the 2 O-rings to the suction pipe sub-assembly.

**NOTICE:**

Keep the O-ring and O-ring fitting surface free of foreign matter.

- (3) Connect the suction pipe sub-assembly and rotate the hook connector as shown in the illustration.  
 (4) Insert the tube joint into the fitting hole securely and install the bolt.

**Torque:**

**9.8 N·m {100 kgf·cm, 87 in·lbf}**

**34. INSTALL OUTER COWL TOP PANEL SUB-ASSEMBLY**

Click here [INFO](#)

**35. INSTALL WATER GUARD PLATE**

**36. INSTALL WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY**

Click here [INFO](#)

**37. ADD ENGINE COOLANT (for Engine)**

- (a) for M20A-FXS:

Click here [INFO](#)

- (b) for 2ZR-FXE:

Click here [INFO](#)

**38. INSPECT FOR COOLANT LEAK (for Engine)**

(a) for M20A-FXS:

Click here [INFO](#)

(b) for 2ZR-FXE:

Click here [INFO](#)

### 39. CHARGE AIR CONDITIONING SYSTEM WITH REFRIGERANT

(a) for HFC-134a (R134a):

Click here [INFO](#)

(b) for HFO-1234yf (R1234yf):

Click here [INFO](#)

### 40. WARM UP COMPRESSOR

(a) for HFC-134a (R134a):

Click here [INFO](#)

(b) for HFO-1234yf (R1234yf):

Click here [INFO](#)

### 41. INSPECT FOR REFRIGERANT LEAK

(a) for HFC-134a (R134a):

Click here [INFO](#)

(b) for HFO-1234yf (R1234yf):

Click here [INFO](#)

