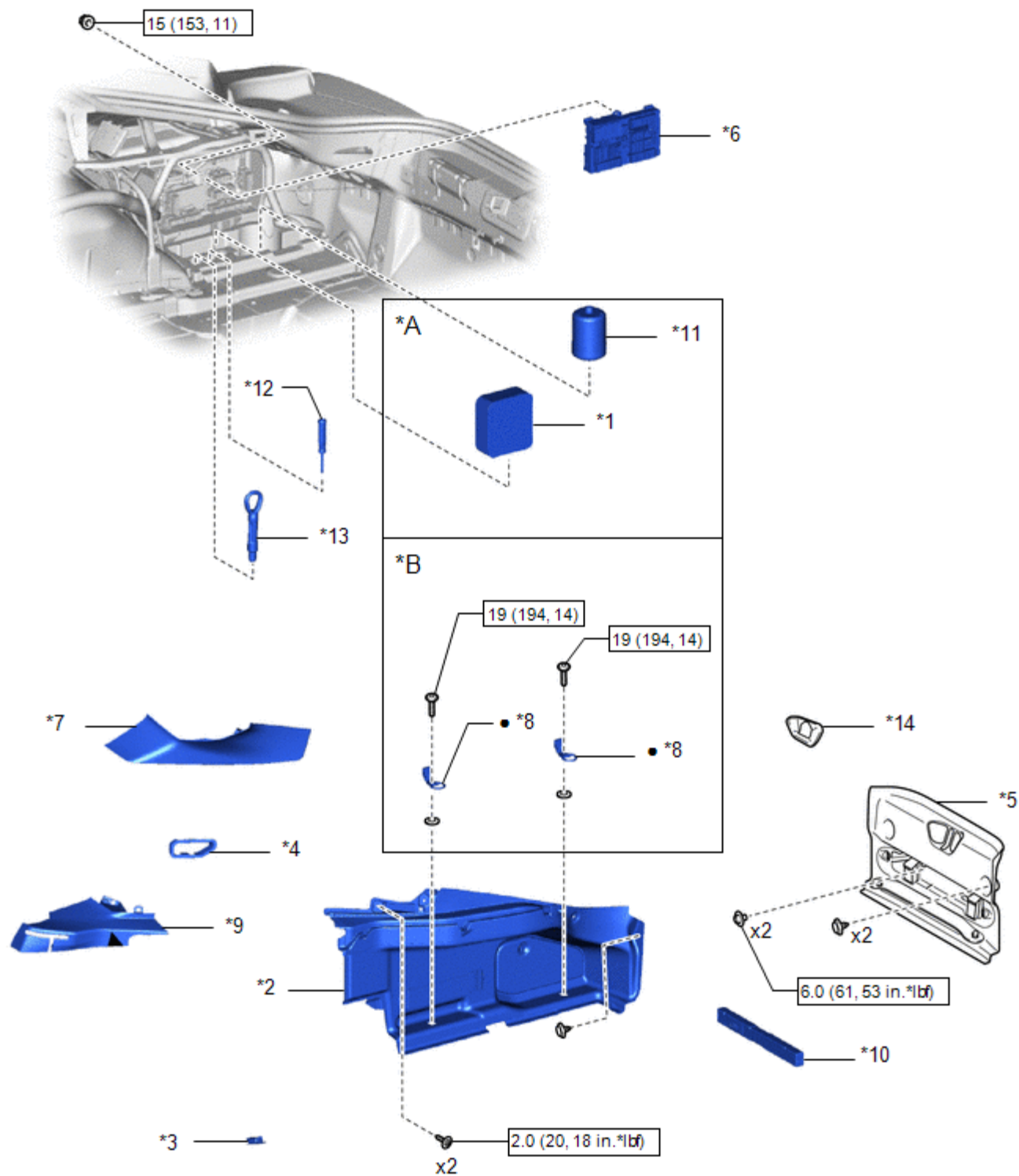


Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCET
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: POWER DISTRIBUTION: FUSE BOX: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



d

*A	w/ Repair Kit	*B	w/ Courtesy Light
*1	AIR COMPRESSOR ASSEMBLY	*2	DECK TRIM SIDE BOARD AND DECK SIDE TRIM COVER RH
*3	NO. 1 LUGGAGE COMPARTMENT LIGHT ASSEMBLY	*4	TRANSVERSE PIPE TRIM

*5	DECK TRIM REAR COVER	*6	REAR POWER DISTRIBUTION BOX
*7	ROOF SIDE INNER GARNISH ASSEMBLY RH	*8	ROPE HOOK
*9	SEAT BELT HOLE COVER SUB- ASSEMBLY RH	*10	TRIANGLE REFLECTOR SET
*11	TUBELESS TIRE REPAIR KIT	*12	SCREWDRIVER
*13	TRANSPORT HOOK	*14	BACK DOOR STRIKER COVER
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCEU
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: POWER DISTRIBUTION: FUSE BOX: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

CAUTION:

- Working on 12 V vehicle electrical system.

Risk of short circuits! Risk of fire!

- Detach the cable from the negative (-) battery terminal.

NOTICE:

- Before performing work on electronic components, disconnect the cable from the negative (-) battery terminal to prevent damage to the electrical system or components.
- When disconnecting the cable, turn the START-STOP button (engine switch) and headlight switch off and loosen the cable nut completely. Perform these operations without twisting or prying on the cable. Then disconnect the cable.
- Clock settings, radio settings, audio system memory, DTCs and other data will be cleared when the cable is disconnected from the negative (-) battery terminal. Write down any necessary data before disconnecting the cable.

PROCEDURE

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

Click here [INFO](#)

2. REMOVE NO. 1 LUGGAGE COMPARTMENT LIGHT ASSEMBLY

Click here [INFO](#)

3. REMOVE TRIANGLE REFLECTOR SET

Click here [INFO](#)

4. REMOVE DECK TRIM REAR COVER

Click here [INFO](#)

5. REMOVE ROOF SIDE INNER GARNISH ASSEMBLY RH

HINT:

Use the same procedure as for the LH side.

Click here [INFO](#)

6. SEPARATE TRANSVERSE PIPE TRIM

HINT:

Use the same procedure as for the LH side.

Click here [INFO](#)

7. REMOVE SEAT BELT HOLE COVER SUB-ASSEMBLY RH

HINT:

Use the same procedure as for the LH side.

[Click here](#) [INFO](#)

8. REMOVE ROPE HOOK (w / Courtesy Light)

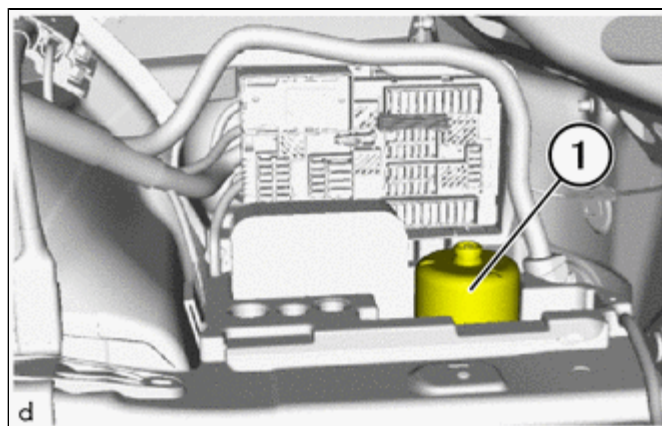
[Click here](#) [INFO](#)

9. REMOVE DECK TRIM SIDE BOARD AND DECK SIDE TRIM COVER RH

[Click here](#) [INFO](#)

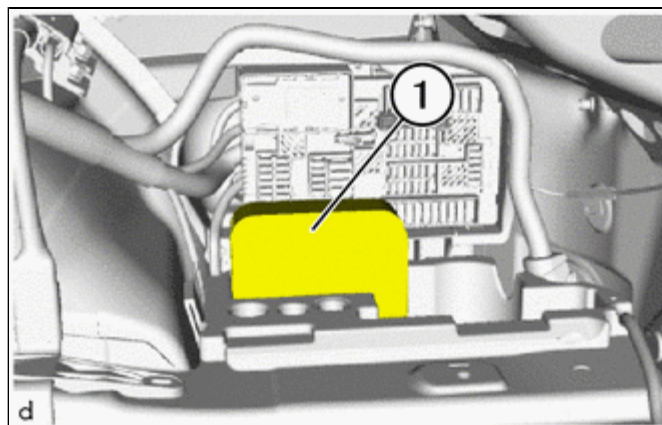
10. REMOVE TUBELESS TIRE REPAIR KIT (w / Repair Kit)

(a) Remove the tubeless tire repair kit (1).



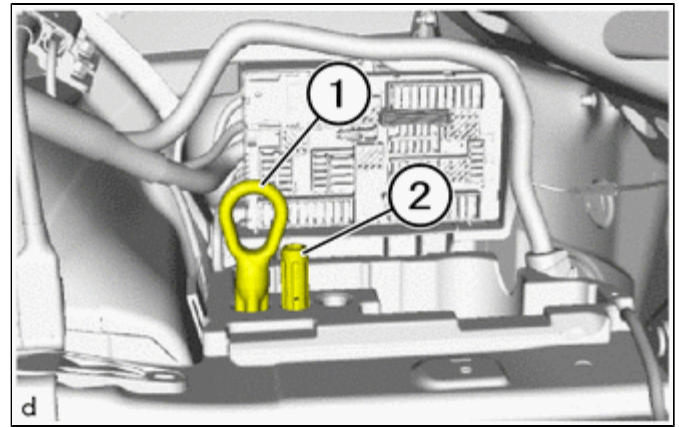
11. REMOVE AIR COMPRESSOR ASSEMBLY (w / Repair Kit)

(a) Remove the air compressor assembly (1).

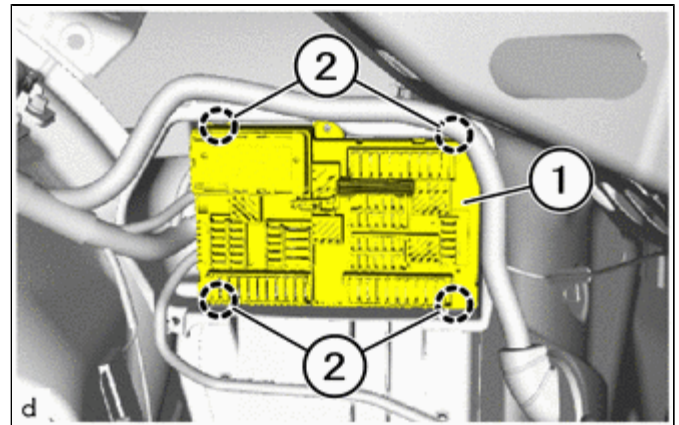


12. REMOVE REAR POWER DISTRIBUTION BOX

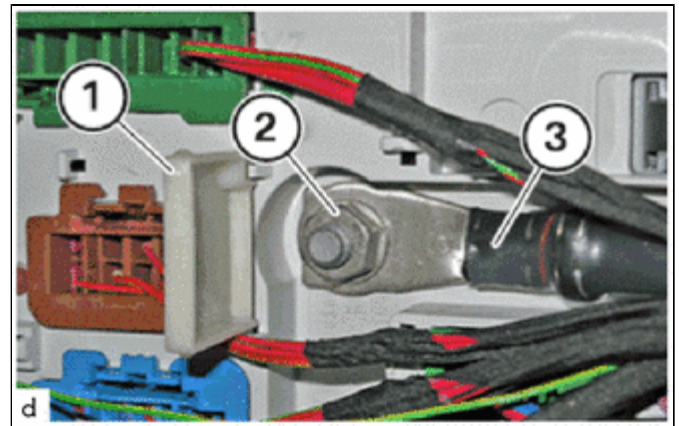
(a) Remove the transport hook (1) and screwdriver (2).



(b) Detach the claws (2) to remove the rear power distribution box (1).



(c) Open the cover (1).

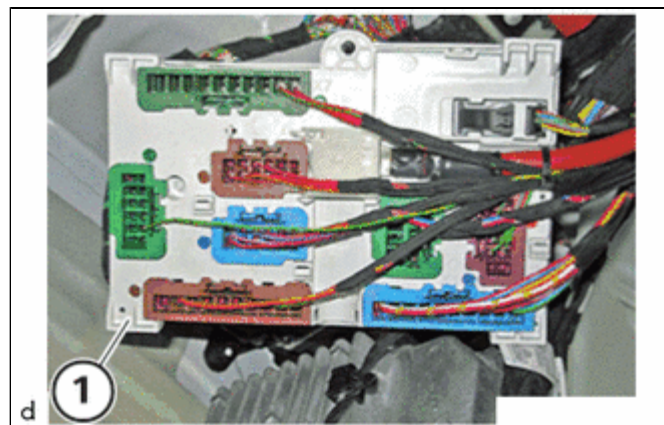


(d) Loosen the nut (2).

(e) If applicable, loosen the tie band on the positive battery cable (3).

(f) Remove the positive battery cable (3).

(g) Disconnect all the connectors to remove the rear power distribution box (1).



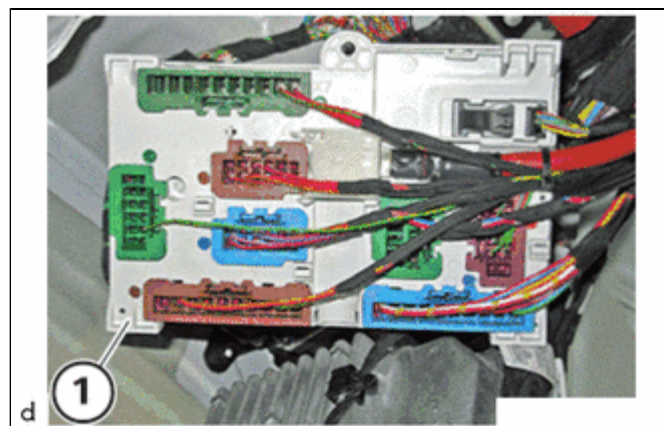
Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCEV
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: POWER DISTRIBUTION: FUSE BOX: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

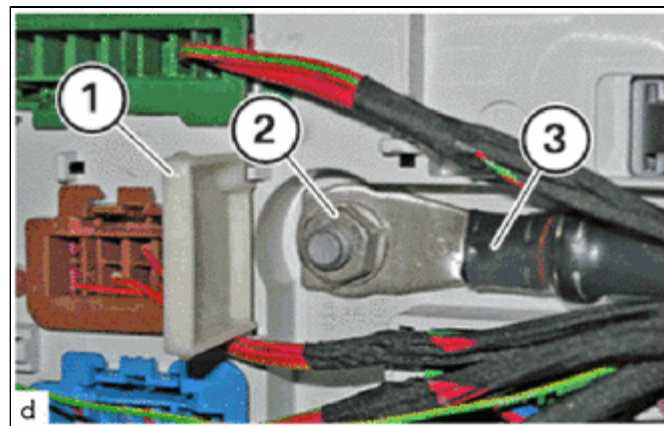
PROCEDURE

1. INSTALL REAR POWER DISTRIBUTION BOX

- (a) Connect all the connectors to the rear power distribution box (1).



- (b) Install the positive battery cable (3).



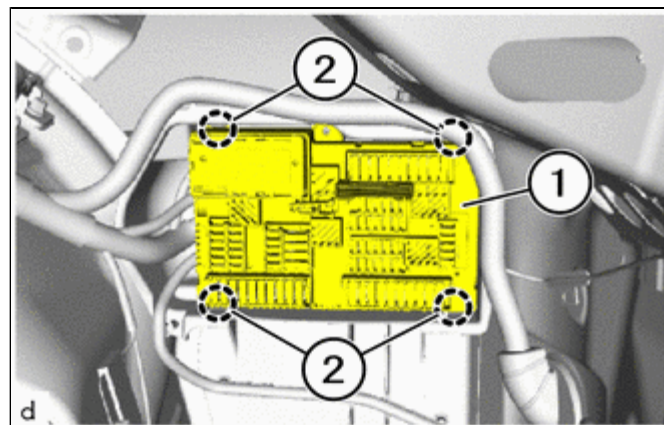
- (c) Tighten the nut (2).

Torque:

15 N·m {153 kgf·cm, 11 ft·lbf}

- (d) If applicable, replace the tie band on the positive battery cable (3).
 (e) Close the cover (1).

- (f) Attach the claws (2) to install the rear power distribution box (1) correctly.



- (g) Install the screwdriver and transport hook.

2. INSTALL AIR COMPRESSOR ASSEMBLY (w / Repair Kit)

- (a) Install the air compressor assembly.

3. INSTALL TUBELESS TIRE REPAIR KIT (w / Repair Kit)

- (a) Install the tubeless tire repair kit.

4. INSTALL DECK TRIM SIDE BOARD AND DECK SIDE TRIM COVER RH

Click here [INFO](#)

5. INSTALL ROPE HOOK (w / Courtesy Light)

Click here [INFO](#)

6. INSTALL SEAT BELT HOLE COVER SUB-ASSEMBLY RH

HINT:

Use the same procedure as for the LH side.

Click here [INFO](#)

7. CONNECT TRANSVERSE PIPE TRIM

HINT:

Use the same procedure as for the LH side.

Click here [INFO](#)

8. INSTALL ROOF SIDE INNER GARNISH ASSEMBLY RH

HINT:

Use the same procedure as for the LH side.

Click here [INFO](#)

9. INSTALL DECK TRIM REAR COVER

Click here [INFO](#)

10. INSTALL TRIANGLE REFLECTOR SET

Click here [INFO](#)

11. INSTALL NO. 1 LUGGAGE COMPARTMENT LIGHT ASSEMBLY

Click here [INFO](#)

12. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

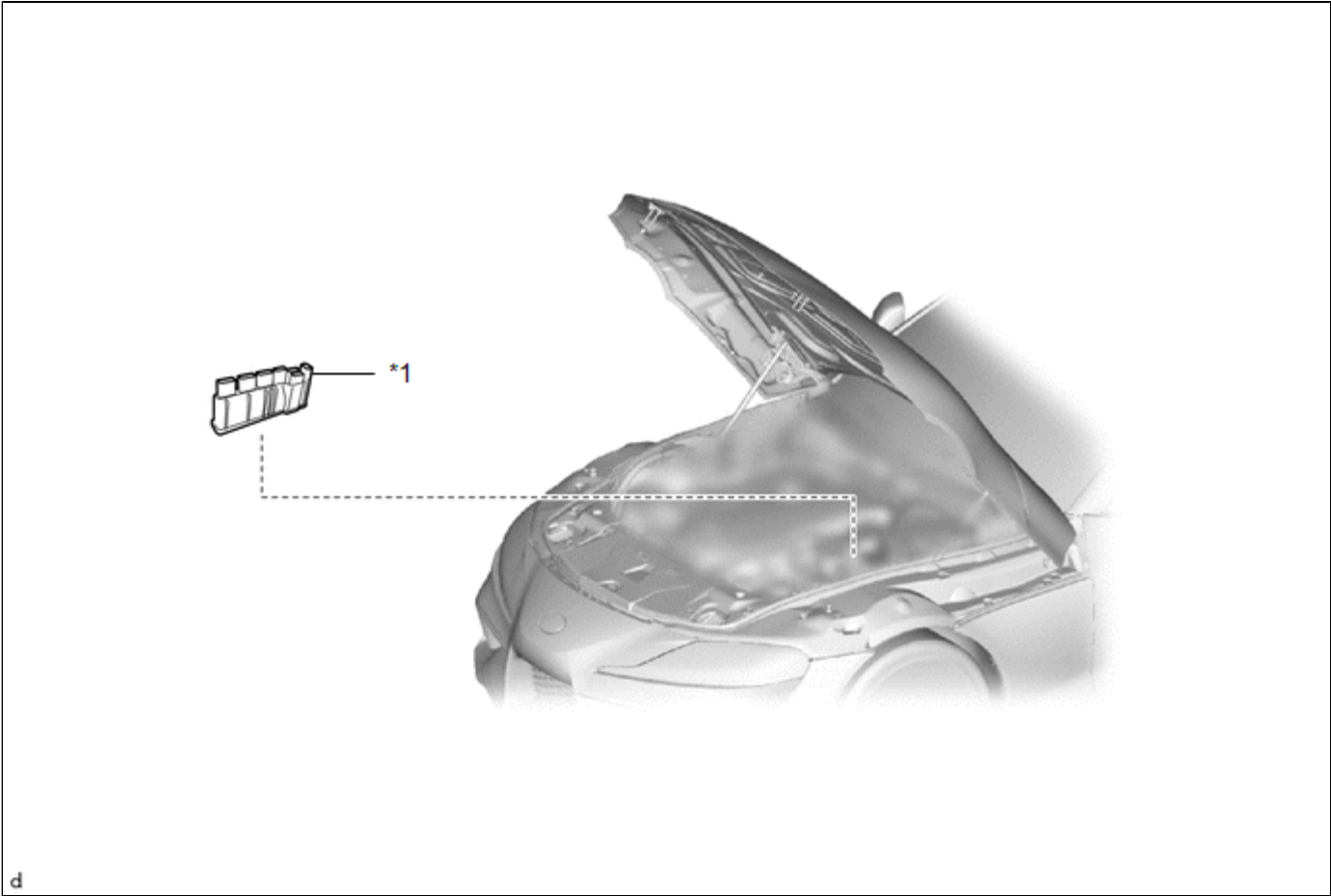
Click here [INFO](#)



Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCEN
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: POWER DISTRIBUTION: INTEGRATION RELAY (for Engine Room Side): COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



d

*1	NO. 1 INTEGRATION RELAY	-	-
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Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCEO
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: POWER DISTRIBUTION: INTEGRATION RELAY (for Engine Room Side): REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

CAUTION:

- Working on 12 V vehicle electrical system.

Risk of short circuits! Risk of fire!

- Detach the cable from the negative (-) battery terminal.

NOTICE:

- Before performing work on electronic components, disconnect the cable from the negative (-) battery terminal to prevent damage to the electrical system or components.
- When disconnecting the cable, turn the START-STOP button (engine switch) and headlight switch off and loosen the cable nut completely. Perform these operations without twisting or prying on the cable. Then disconnect the cable.
- Clock settings, radio settings, audio system memory, DTCs and other data will be cleared when the cable is disconnected from the negative (-) battery terminal. Write down any necessary data before disconnecting the cable.

PROCEDURE

1. REMOVE ECM

Click here [INFO](#)

2. REMOVE NO. 1 INTEGRATION RELAY

CAUTION:

- Working on 12 V vehicle electrical system.

Risk of short circuits! Risk of fire!

- Detach the cable from the negative (-) battery terminal.

NOTICE:

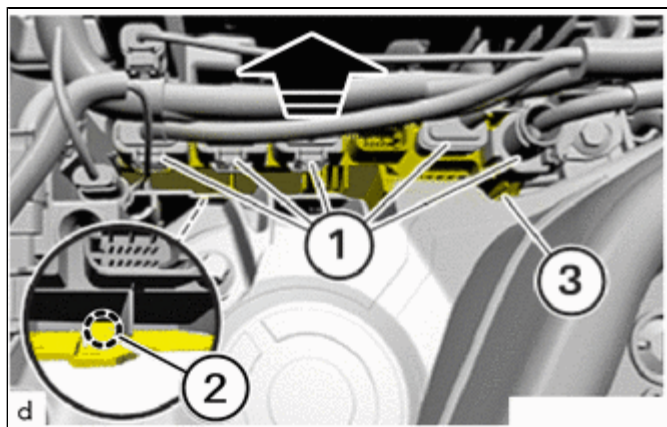
- Electrostatic discharge.

Damage to or destruction of electrical components.

- Only touch the housings of electrical components. Do not touch pins or multi-pin connectors directly.
- For additional information see:

Click here [INFO](#)

- (a) Disconnect all the connectors (1).



Remove in this Direction

(b) Detach the claw (2).

(c) Remove the No.1 integration relay (3) as shown in the illustration.



TOYOTA

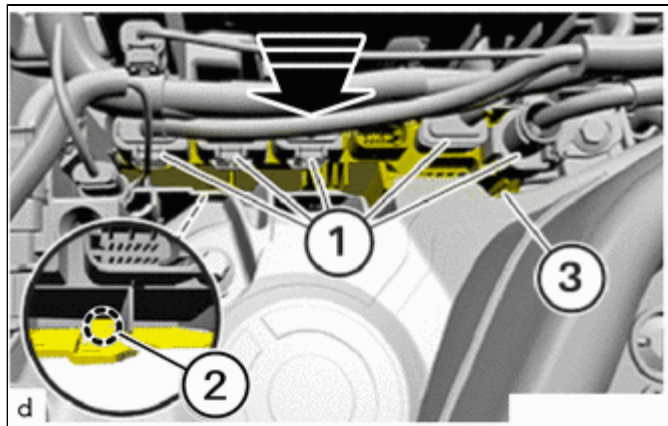
Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCEP
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: POWER DISTRIBUTION: INTEGRATION RELAY (for Engine Room Side): INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

1. INSTALL NO. 1 INTEGRATION RELAY

(a) Attach the claw (2) to install the No.1 integration relay (3) as shown in the illustration.



Install in this Direction

NOTICE:
Check the attaching sound of the claw (2).

(b) Connect all the connectors (1).

NOTICE:
Check the connecting sound of all the connectors (1).

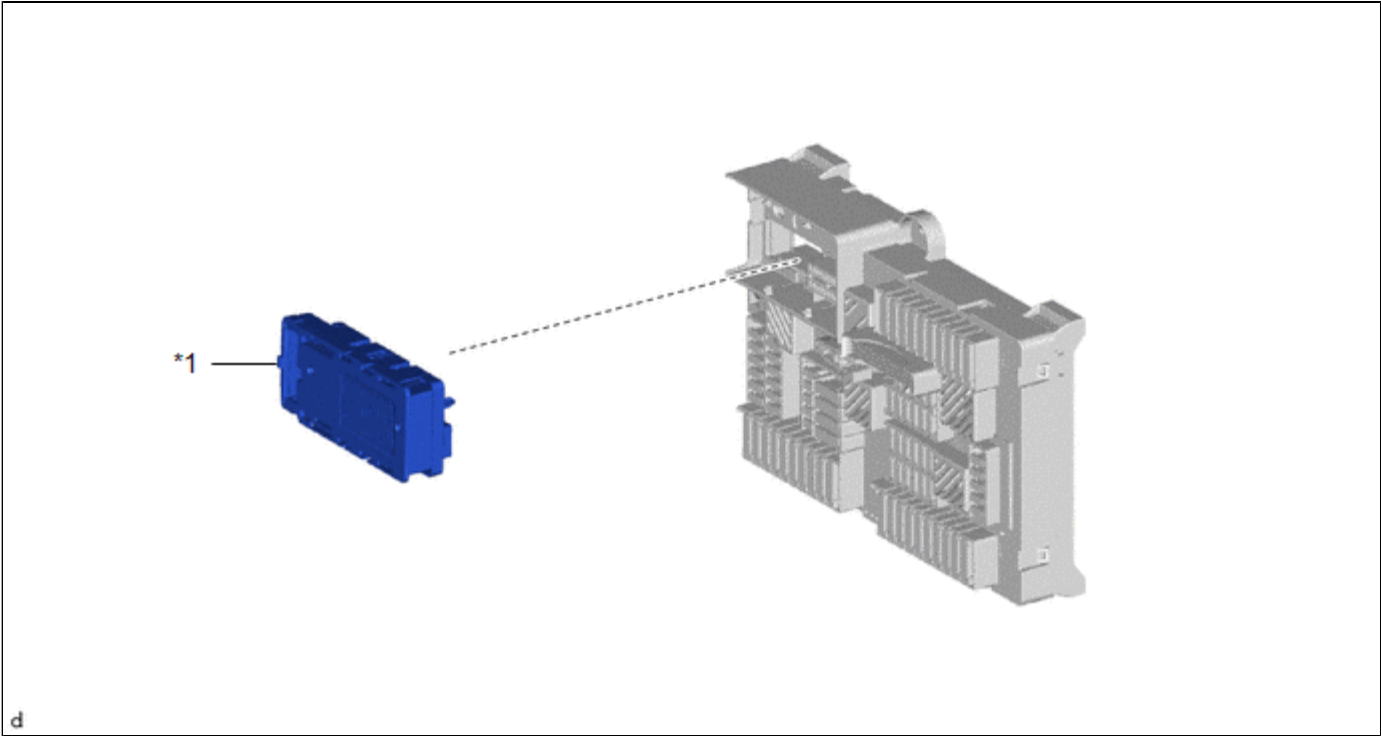
2. INSTALL ECM

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCEQ
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: POWER DISTRIBUTION: INTEGRATION RELAY (for Luggage Compartment): COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	SEMICONDUCTOR POWER INTEGRATION ECU	-	-
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Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCER
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: POWER DISTRIBUTION: INTEGRATION RELAY (for Luggage Compartment): REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

CAUTION:

- Working on 12 V vehicle electrical system.
- Risk of short circuits! Risk of fire!
- Detach the cable from the negative (-) battery terminal.

NOTICE:

- Before performing work on electronic components, disconnect the cable from the negative (-) battery terminal to prevent damage to the electrical system or components.
- When disconnecting the cable, turn the START-STOP button (engine switch) and headlight switch off and loosen the cable nut completely. Perform these operations without twisting or prying on the cable. Then disconnect the cable.
- Clock settings, radio settings, audio system memory, DTCs and other data will be cleared when the cable is disconnected from the negative (-) battery terminal. Write down any necessary data before disconnecting the cable.

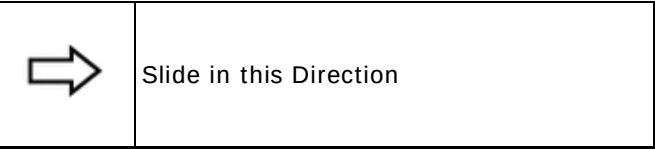
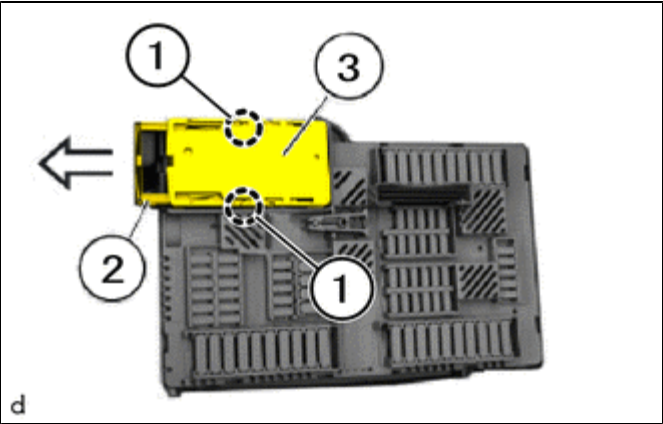
PROCEDURE

1. REMOVE REAR POWER DISTRIBUTION BOX

Click here [INFO](#)

2. REMOVE SEMICONDUCTOR POWER INTEGRATION ECU

(a) Press the marked area (1) to slide the locking bracket (2) in the direction of the arrow.



(b) Remove the semiconductor power integration ECU (3) from the rear power distribution box.

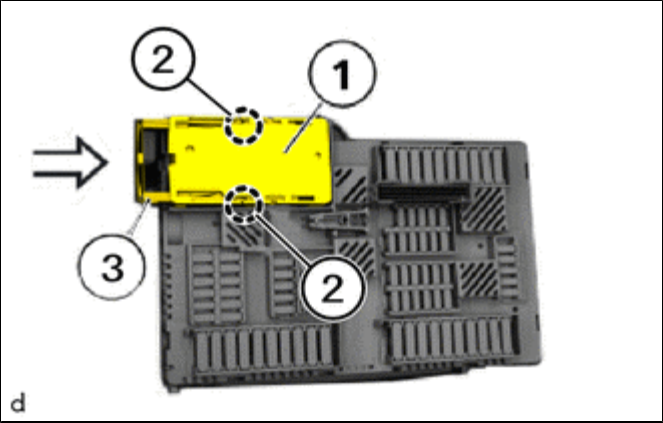
Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCES
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: POWER DISTRIBUTION: INTEGRATION RELAY (for Luggage Compartment): INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

1. INSTALL SEMICONDUCTOR POWER INTEGRATION ECU

(a) Install the semiconductor power integration ECU (1) correctly.





Slide in this Direction

(b) Press the marked area (2) to slide the locking bracket (3) in the direction of the arrow.

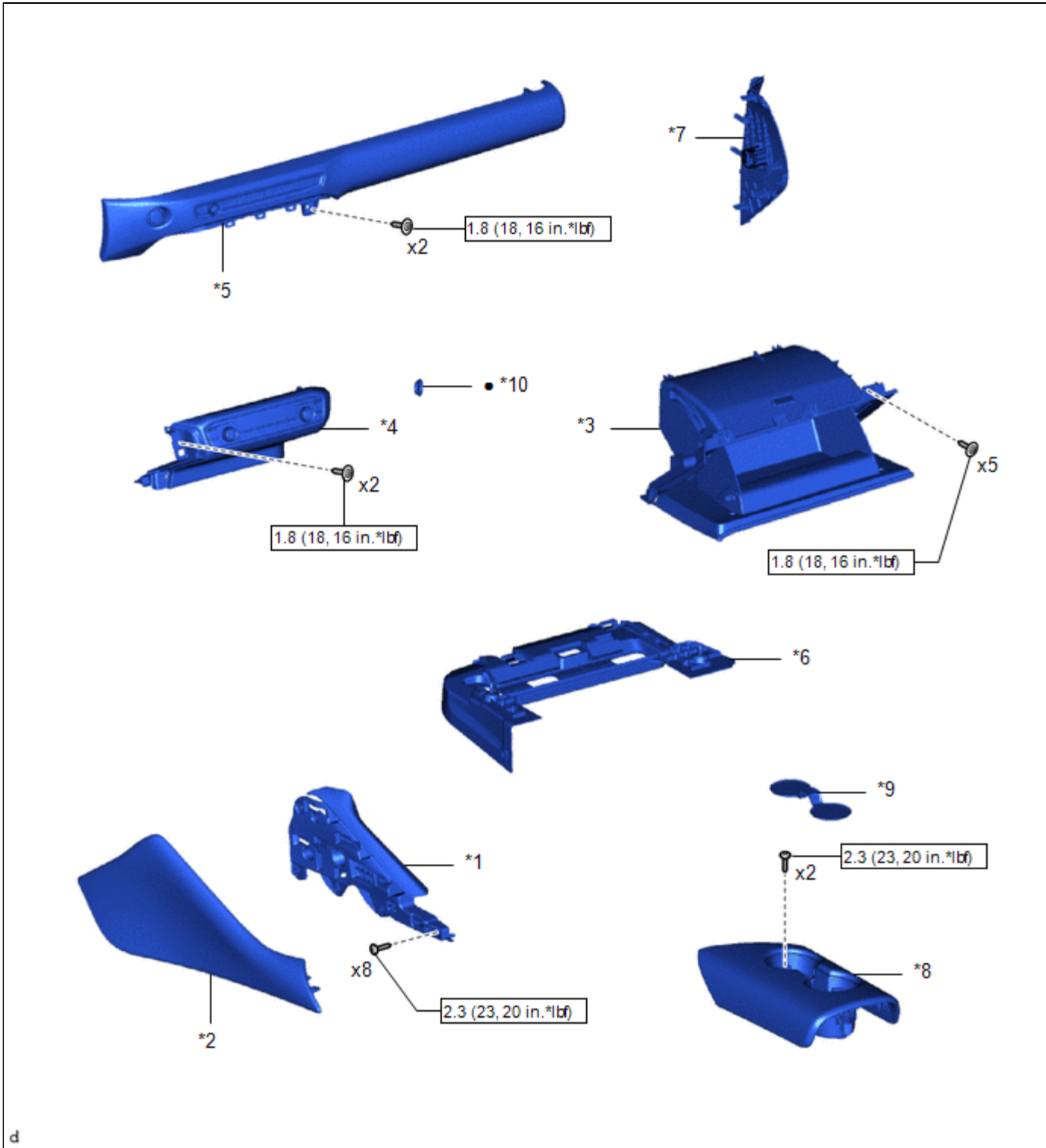
2. INSTALL REAR POWER DISTRIBUTION BOX

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCEW
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: POWER DISTRIBUTION: MAIN BODY ECU: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

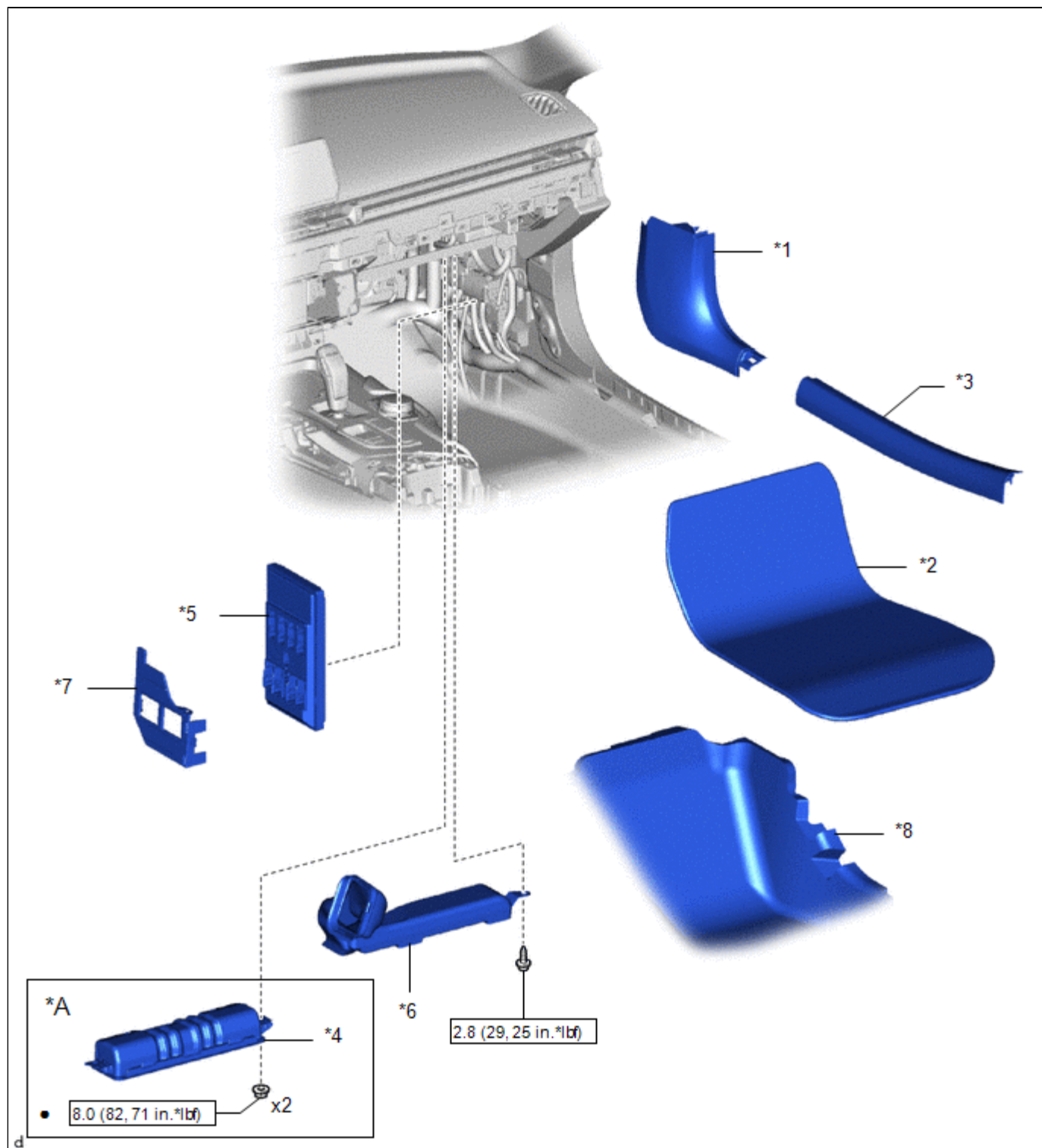
ILLUSTRATION



*1	CONSOLE PANEL AND CONSOLE	*2	CONSOLE SIDE PANEL
----	---------------------------	----	--------------------

	PANEL RETAINER		
*3	GLOVE COMPARTMENT DOOR ASSEMBLY	*4	INSTRUMENT PANEL FINISH LOWER PANEL
*5	NO. 1 INSTRUMENT PANEL GARNISH SUB-ASSEMBLY	*6	NO. 2 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY
*7	NO. 1 INSTRUMENT SIDE PANEL	*8	FRONT CONSOLE ARMREST ASSEMBLY
*9	NO. 1 CONSOLE BOX SILENCER PAD	*10	RUBBER PLUG
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part

ILLUSTRATION



*A	w/ Knee Airbag	-	-
*1	COWL SIDE TRIM BOARD RH	*2	FLOOR MAT ASSEMBLY
*3	FRONT DOOR SCUFF PLATE RH	*4	LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY
*5	MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)	*6	NO. 2 AIR DUCT
*7	COVER	*8	FRONT FLOOR CARPET ASSEMBLY
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part

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Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCEX
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: POWER DISTRIBUTION: MAIN BODY ECU: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

CAUTION:

- Working on 12 V vehicle electrical system.

Risk of short circuits! Risk of fire!

- Detach the cable from the negative (-) battery terminal.

- Pyrotechnic components.

Danger! Life-threatening injuries!



- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see:

Click here [INFO](#)

NOTICE:

- Electrostatic discharge.

Damage to or destruction of electrical components.

- Only touch the housings of electrical components. Do not touch pins or multi-pin connectors directly.
- For additional information see:

Click here [INFO](#)

- Before performing work on electronic components, disconnect the cable from the negative (-) battery terminal to prevent damage to the electrical system or components.
- When disconnecting the cable, turn the START-STOP button (engine switch) and headlight switch off and loosen the cable nut completely. Perform these operations without twisting or prying on the cable. Then disconnect the cable.
- Clock settings, radio settings, audio system memory, DTCs and other data will be cleared when the cable is disconnected from the negative (-) battery terminal. Write down any necessary data before disconnecting the cable.

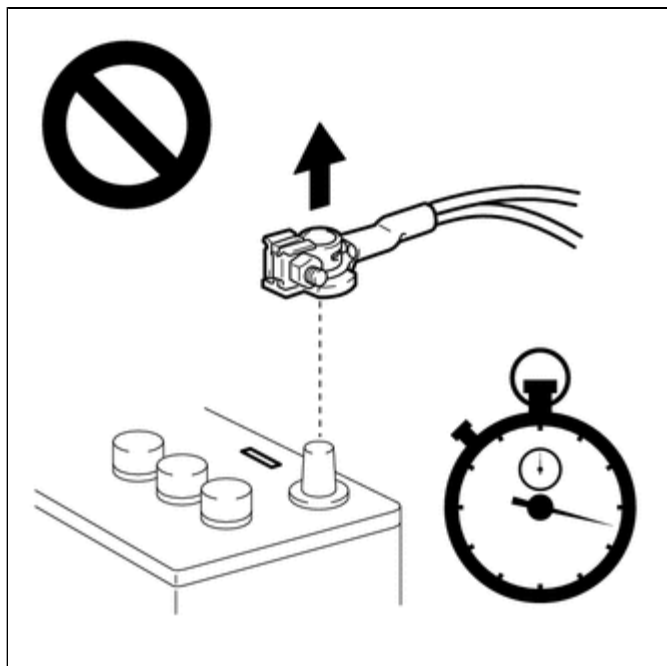
PROCEDURE

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

Click here [INFO](#)

CAUTION:

- Wait at least 60 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.
- If the airbag deploys for any reason, it may cause a serious accident.



2. REMOVE FRONT CONSOLE ARMREST ASSEMBLY

Click here [INFO](#)

3. REMOVE CONSOLE SIDE PANEL

Click here [INFO](#)

4. REMOVE CONSOLE PANEL AND CONSOLE PANEL RETAINER

Click here [INFO](#)

5. REMOVE INSTRUMENT PANEL FINISH LOWER PANEL

Click here [INFO](#)

6. REMOVE NO. 1 INSTRUMENT SIDE PANEL

Click here [INFO](#)

7. REMOVE NO. 1 INSTRUMENT PANEL GARNISH SUB-ASSEMBLY

Click here [INFO](#)

8. REMOVE GLOVE COMPARTMENT DOOR ASSEMBLY

Click here [INFO](#)

9. REMOVE NO.2 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY

Click here [INFO](#)

10. REMOVE LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY (w/ Knee Airbag)

Click here [INFO](#)

11. REMOVE NO. 2 AIR DUCT

Click here [INFO](#)

12. REMOVE FLOOR MAT ASSEMBLY

HINT:

Use the same procedure as for the LH side.

Click here [INFO](#)

13. REMOVE FRONT DOOR SCUFF PLATE RH

HINT:

Use the same procedure as for the LH side.

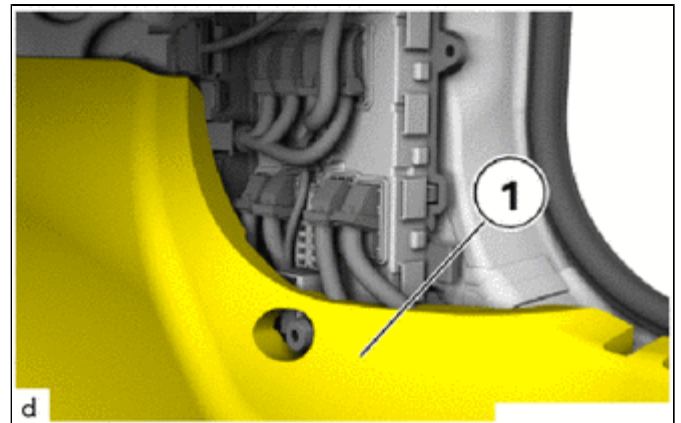
Click here [INFO](#)

14. REMOVE COWL SIDE TRIM BOARD RH

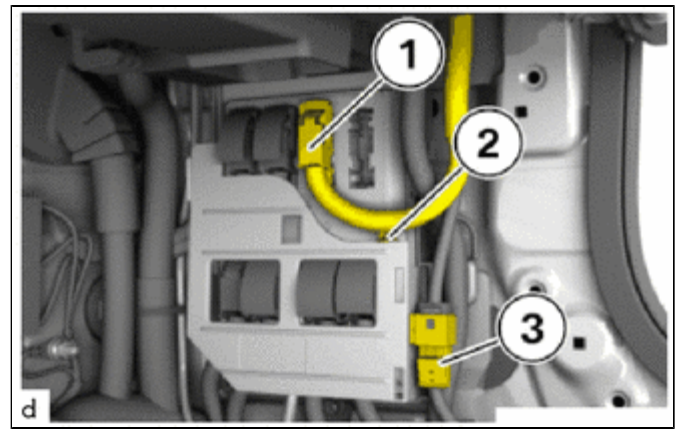
Click here [INFO](#)

15. REMOVE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)

(a) Fold the front floor carpet assembly (1) to the side.

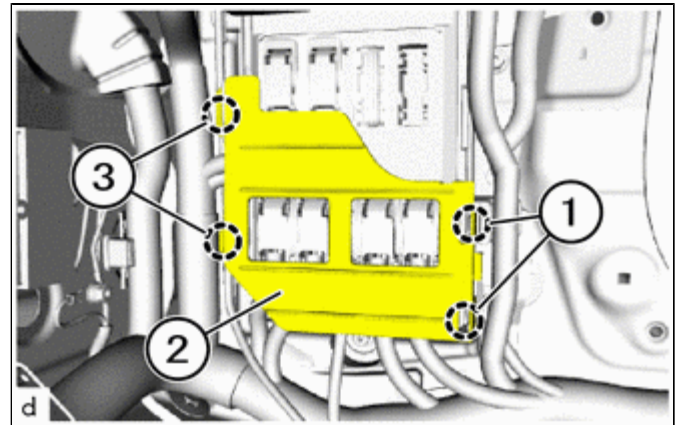


(b) Disconnect the connector (1).



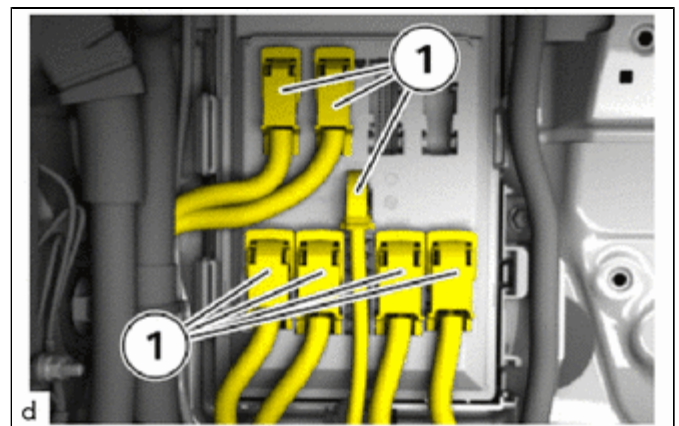
(c) Detach the clamp (2).

(d) Detach the connector housing (3).



(e) Detach the claws (1).

(f) Feed out the cover (2) of main body ECU (multiplex network body ECU) at the guides (3).

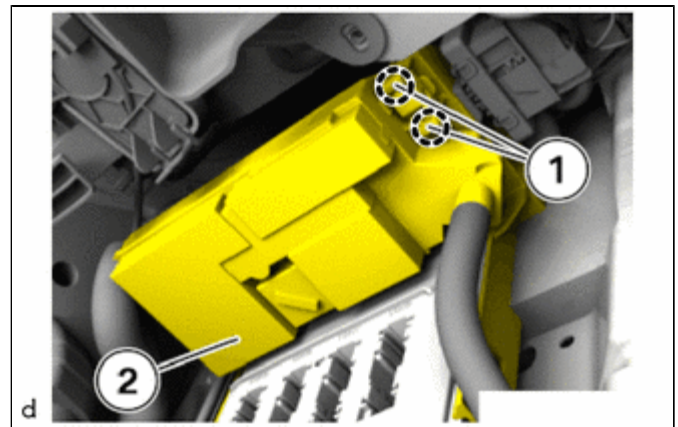


(g) Disconnect all the connectors (1).

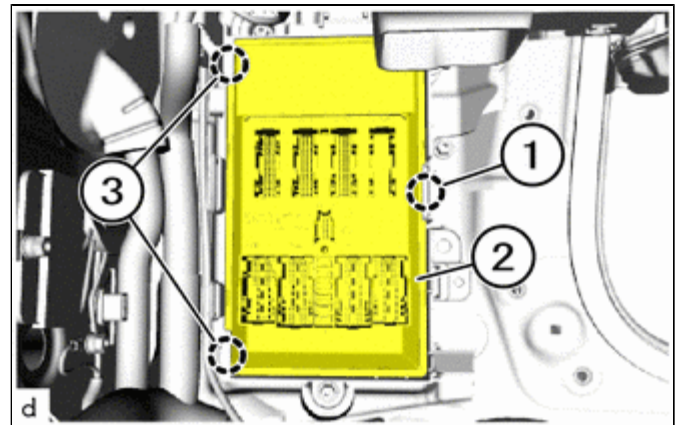
(h) Release the claws (1) to feed out the fuse box (2) from the holder.

HINT:

Fuse box (2) remains in the vehicle.



(i) Detach the claw (1).



(j) Feed out and remove the main body ECU (multiplex network body ECU) (2) from the guides (3).

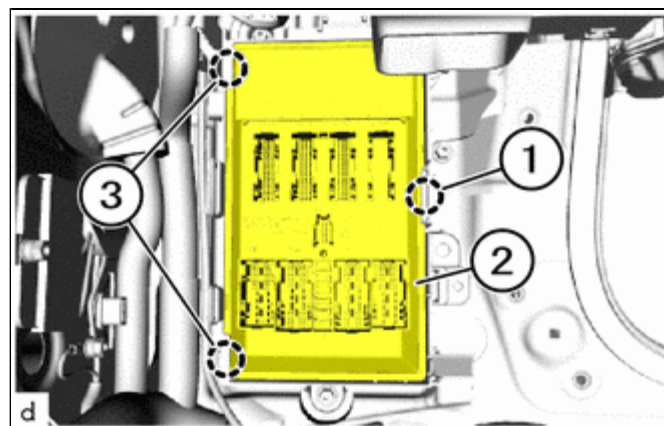
Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCEY
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: POWER DISTRIBUTION: MAIN BODY ECU: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

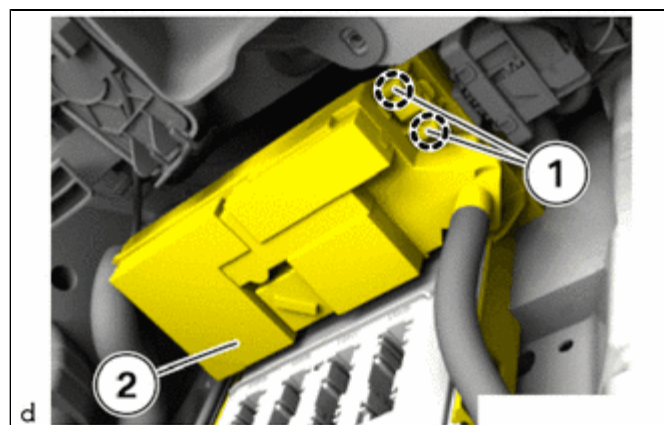
1. INSTALL MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)

- (a) Position the main body ECU (multiplex network body ECU) (2) and thread into the guides (3).

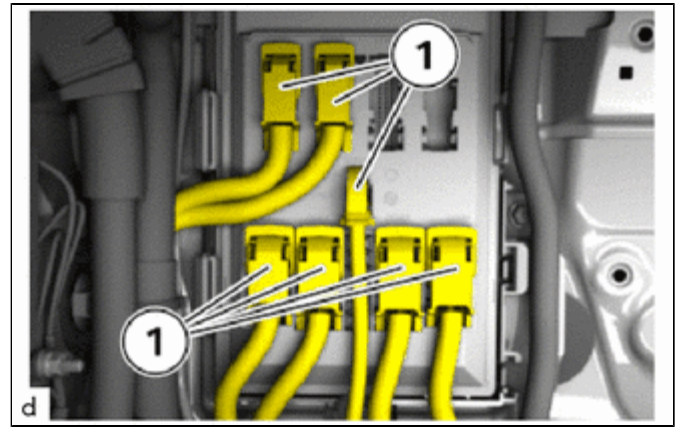


- (b) Attach the claw (1).

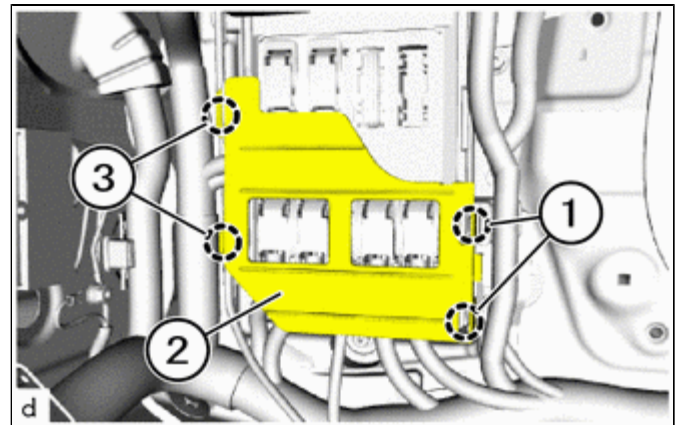
- (c) Correctly position the fuse box (2) and clip into the claws (1).



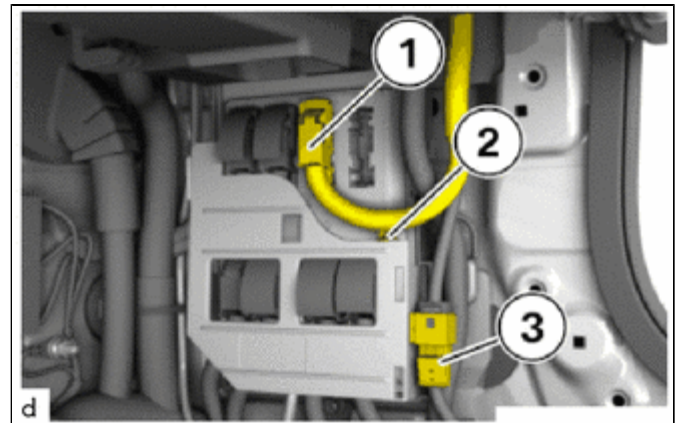
- (d) Connect all the connectors (1).



(e) Feed the cover (2) of main body ECU (multiplex network body ECU) onto the guides (3).



(f) Attach the claws (1).

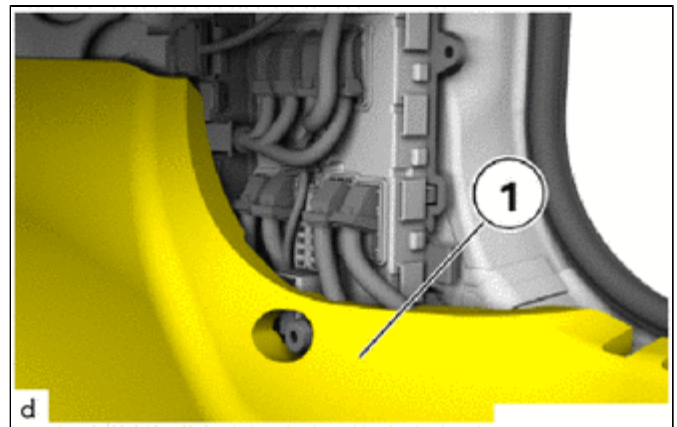


(g) Attach the connector housing (3).

(h) Attach the clamp (2).

(i) Connect the connector (1).

- (j) Fold back the front floor carpet assembly (1) and ensure it is positioned correctly.



2. INSTALL COWL SIDE TRIM BOARD RH

Click here [INFO](#)

3. INSTALL FRONT DOOR SCUFF PLATE RH

HINT:

Use the same procedure as for the LH side.

Click here [INFO](#)

4. INSTALL FLOOR MAT ASSEMBLY

HINT:

Use the same procedure as for the LH side.

Click here [INFO](#)

5. INSTALL NO. 2 AIR DUCT

Click here [INFO](#)

6. INSTALL LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY (w / Knee Airbag)

Click here [INFO](#)

7. INSTALL NO. 2 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY

Click here [INFO](#)

8. INSTALL GLOVE COMPARTMENT DOOR ASSEMBLY

Click here [INFO](#)

9. INSTALL NO. 1 INSTRUMENT PANEL GARNISH SUB-ASSEMBLY

Click here [INFO](#)

10. INSTALL NO. 1 INSTRUMENT SIDE PANEL

Click here [INFO](#)

11. INSTALL INSTRUMENT PANEL FINISH LOWER PANEL

Click here [INFO](#)

12. INSTALL CONSOLE PANEL AND CONSOLE PANEL RETAINER

Click here [INFO](#)

13. INSTALL CONSOLE SIDE PANEL

Click here [INFO](#)

14. INSTALL FRONT CONSOLE ARMREST ASSEMBLY

Click here [INFO](#)

15. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Click here [INFO](#)

16. ENCODE/PROGRAM CONTROL UNIT(S)

NOTICE:

- Use the most recent software version to prevent faults during programming/encoding.
- The battery voltage must not drop below 13.0 V during programming.
- Use only recommended chargers for a low-voltage vehicle electrical system.
- Do not exceed the maximum charging voltage of 14.8 V when charging the battery.
- When there is communication abnormality in the middle of work, control unit might be damaged.

- (a) Connect the battery charger to the vehicle.
- (b) Connect the diagnosis system with the vehicle.
- (c) Determine the action plan.

Service plan / Programming plan / Action plan / Calculate action plan

- (d) Accept and fully process the measures plan.

Service plan / Programming plan / Action plan / Perform action plan

- (e) Wait until programming/encoding has been completed.

NOTICE:

When there is communication abnormality in the middle of work, control unit might be damaged.

- (f) Carry out vehicle test.

Vehicle management / Troubleshooting / Fault memory / Calculate test plan

- (g) Delete the fault memory.

Vehicle management / Troubleshooting / Fault memory / Delete fault memory

- (h) Disconnect the diagnosis system from the vehicle.

- (i) Disconnect the battery charger from the vehicle.

