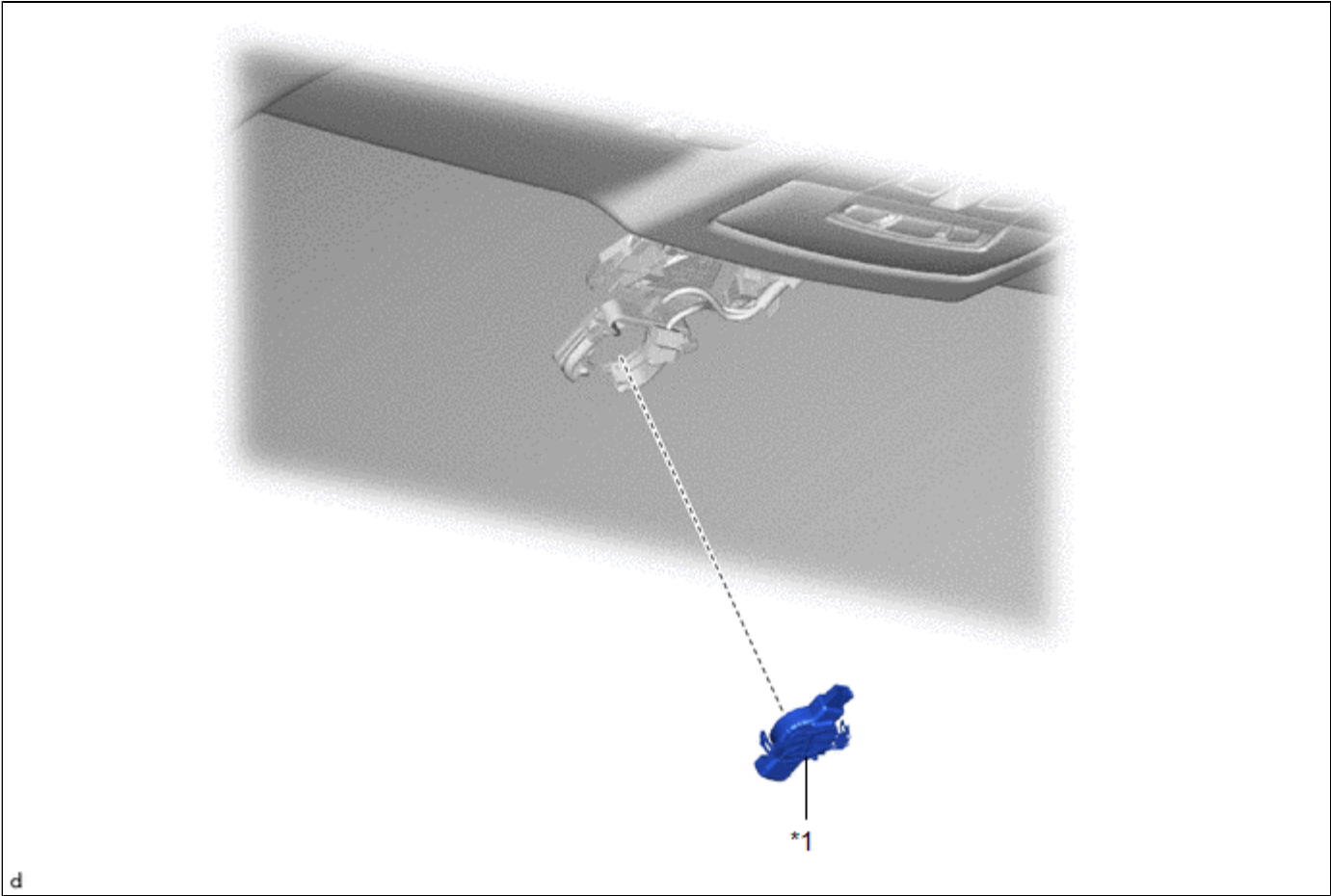


Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCL0
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): AUTOMATIC LIGHT CONTROL SENSOR: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	RAIN SENSOR	-	-
----	-------------	---	---

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Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCL1
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): AUTOMATIC LIGHT CONTROL SENSOR: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

PROCEDURE

1. REMOVE INNER REAR VIEW MIRROR ASSEMBLY

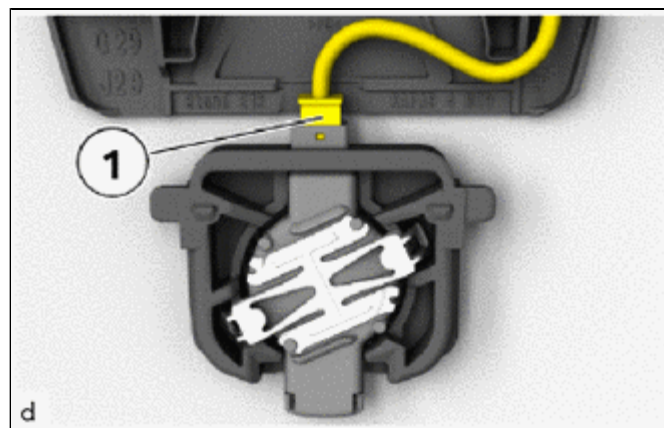
Click here [INFO](#)

2. REMOVE RAIN SENSOR

NOTICE:

When replacing windshield glass: Immediately install the rain sensor on the new windshield glass.

(a) Disconnect the connector (1).



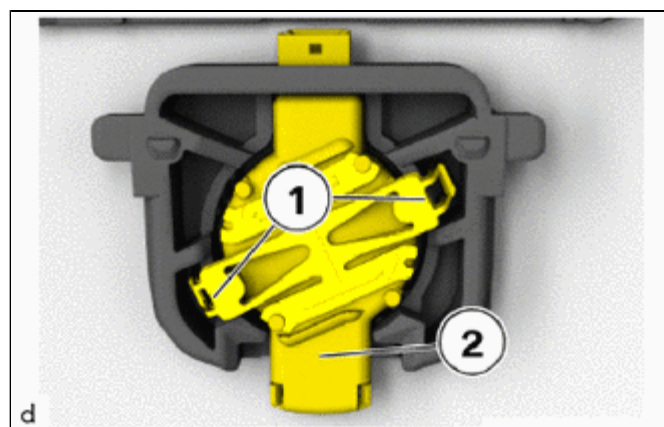
(b) Push in retaining springs (1) on both sides and disengage the lock by means of a screwdriver.

NOTICE:

- Damage to silicone surface.

A damaged silicone surface can lead to malfunctioning of the rain sensor (2).

- Do not touch or damage the silicone-coated surface on the rain sensor (2).



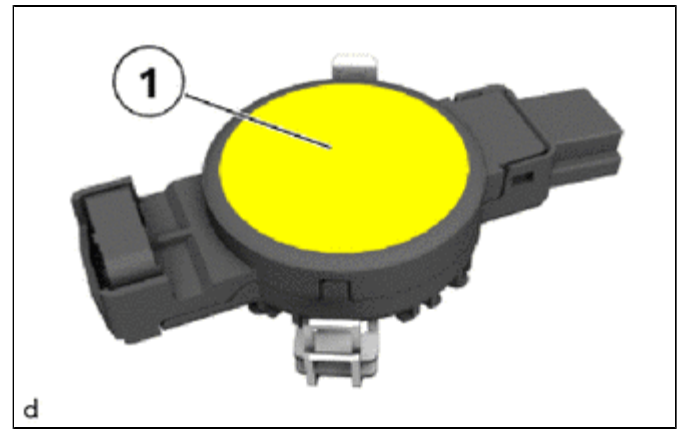
(c) Remove the rain sensor slowly off the windshield glass. At the same time, monitor the release of the silicone area (1) from outside.

NOTICE:

The silicone surface must evenly loosen from the windshield glass, if applicable, lower the pull-off force.

HINT:

After releasing lock, wait approx. 30 minutes. at 20°C (68°F) for silicone surface to relax.



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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): AUTOMATIC LIGHT CONTROL SENSOR: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

1. INSTALL RAIN SENSOR

NOTICE:

- Damage to silicone surface.

A damaged silicone surface can lead to malfunctioning of the rain sensor.

- Do not touch or damage the silicone-coated surface on the rain sensor.

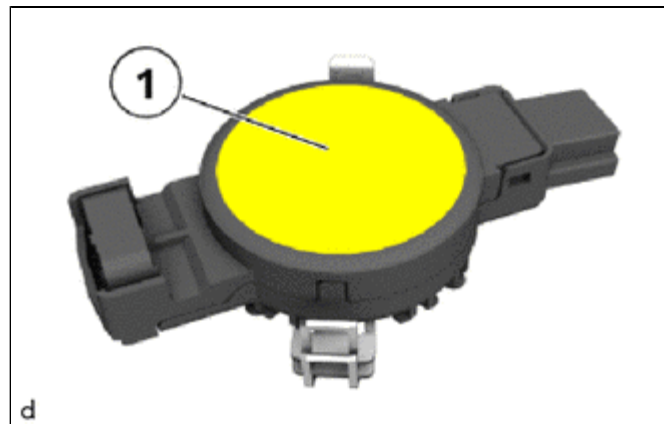
HINT:

After releasing lock, wait approx. 30 minutes. at 20°C (68°F) for silicone surface to relax.

(a) Check silicone surface (1) for damage.

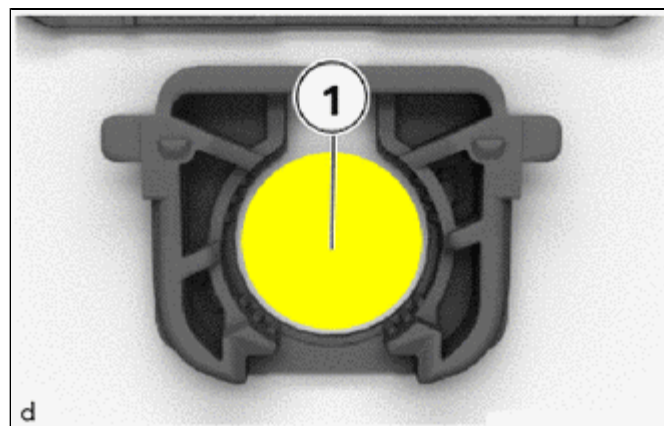
HINT:

- Silicone surface (1) is damaged.
 - Replace rain sensor.



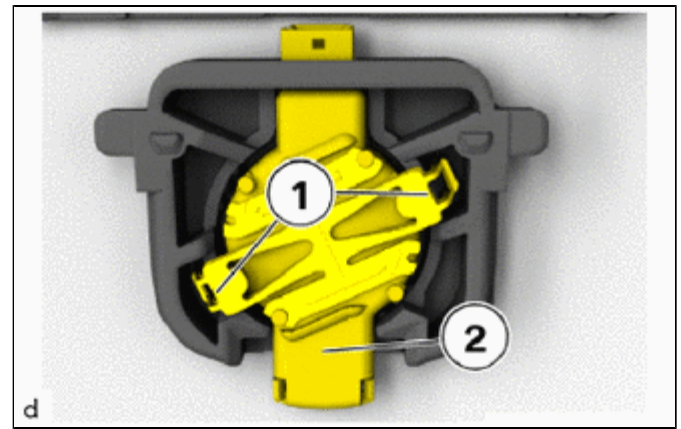
d

(b) Carefully clean windshield glass in the contact area (1) of rain sensor.



d

(c) Install the rain sensor (2) into the holder and press on centered on the retaining springs (1).

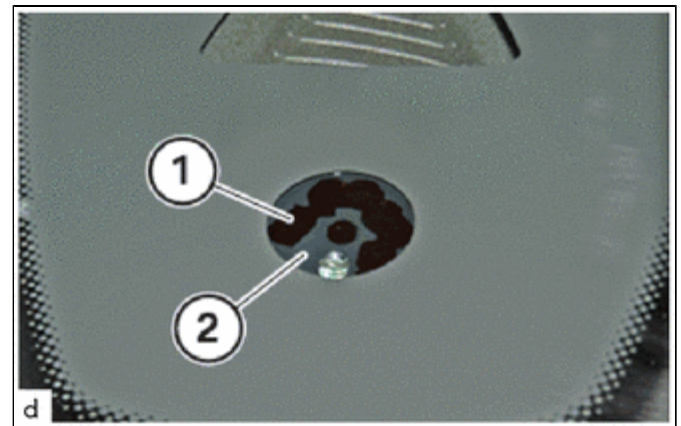


(d) Successively press down the retaining springs (1) on each side to lock it.

(e) Check contact surfaces for air pockets from the outside.

HINT:

- Visible shadows (1) are not air pockets, but the optical element of the rain sensor (2).
- The shadows (1) do not indicate a functional limitation.
- Contact surface has air pockets.
 - Remove the rain sensor and install again.



(f) Connect the connector.

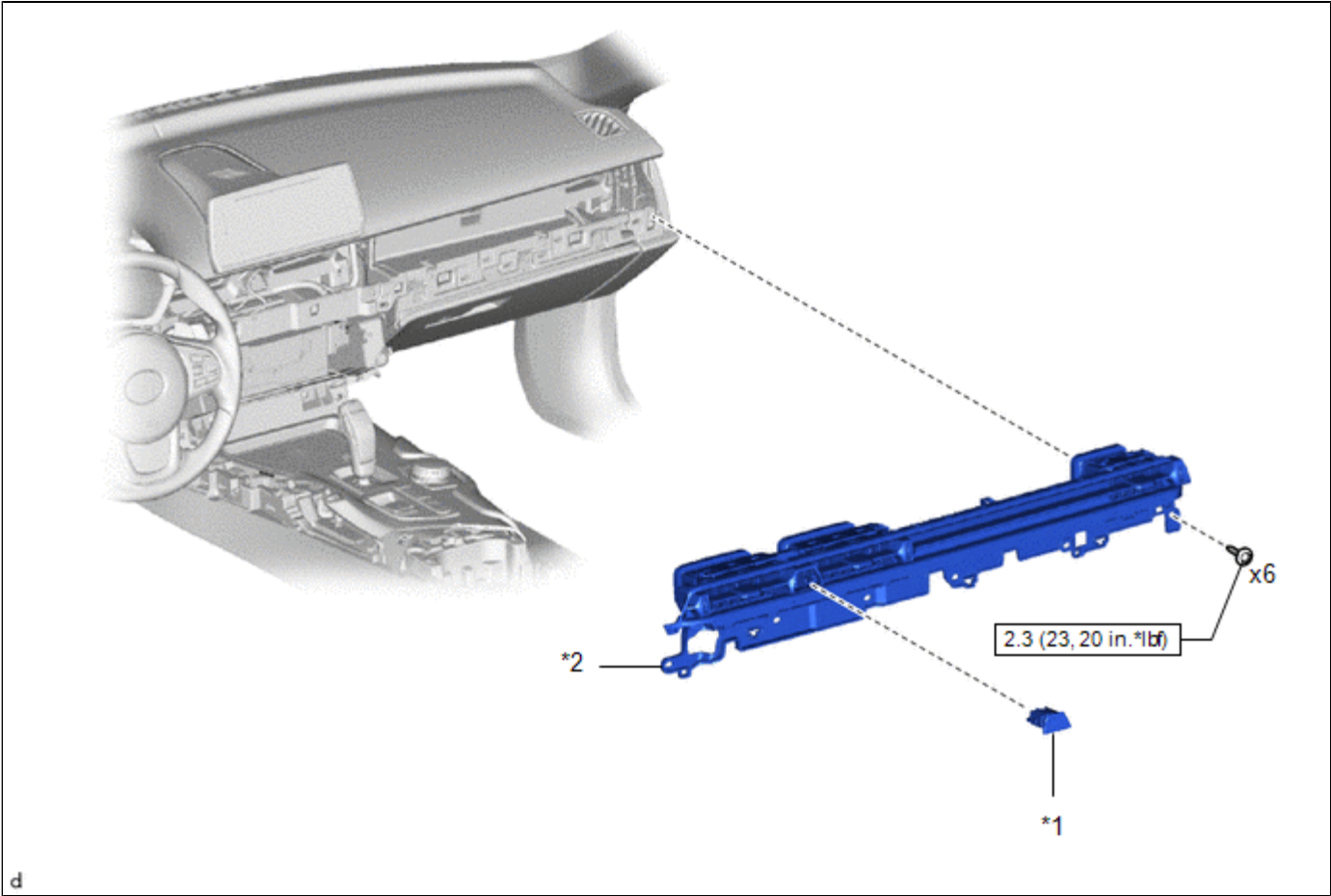
2. INSTALL INNER REAR VIEW MIRROR ASSEMBLY

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKU
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HAZARD WARNING SWITCH: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	HAZARD WARNING SIGNAL SWITCH ASSEMBLY	*2	NO. 2 INSTRUMENT PANEL REGISTER ASSEMBLY
	N*m (kgf*cm, ft.*lbf): Specified torque	-	-

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKV
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HAZARD WARNING SWITCH: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

PROCEDURE

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

Click here [INFO](#)

2. REMOVE NO. 2 INSTRUMENT PANEL REGISTER ASSEMBLY

Click here [INFO](#)

3. REMOVE HAZARD WARNING SIGNAL SWITCH ASSEMBLY

NOTICE:

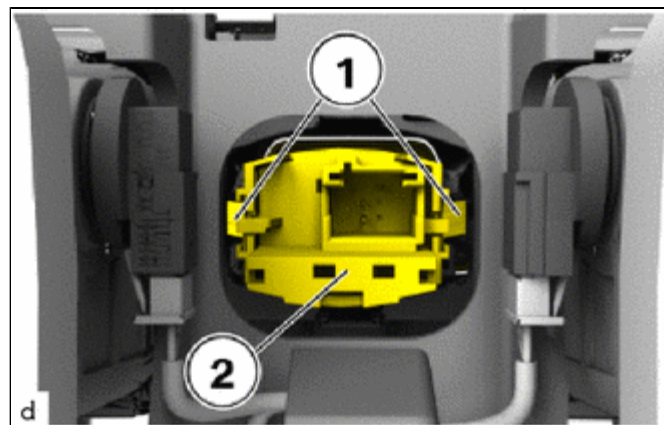
- Electrostatic discharge.

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) Disengage the claws (1) to remove the hazard warning signal switch assembly (2).



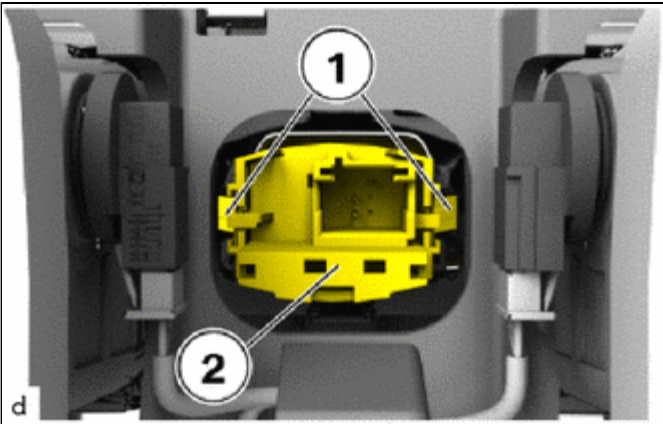
Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKW
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HAZARD WARNING SWITCH: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

1. INSTALL HAZARD WARNING SIGNAL SWITCH ASSEMBLY

(a) Engage the claws (1) to install the hazard warning signal switch assembly (2).



2. INSTALL NO. 2 INSTRUMENT PANEL REGISTER ASSEMBLY

Click here [INFO](#)

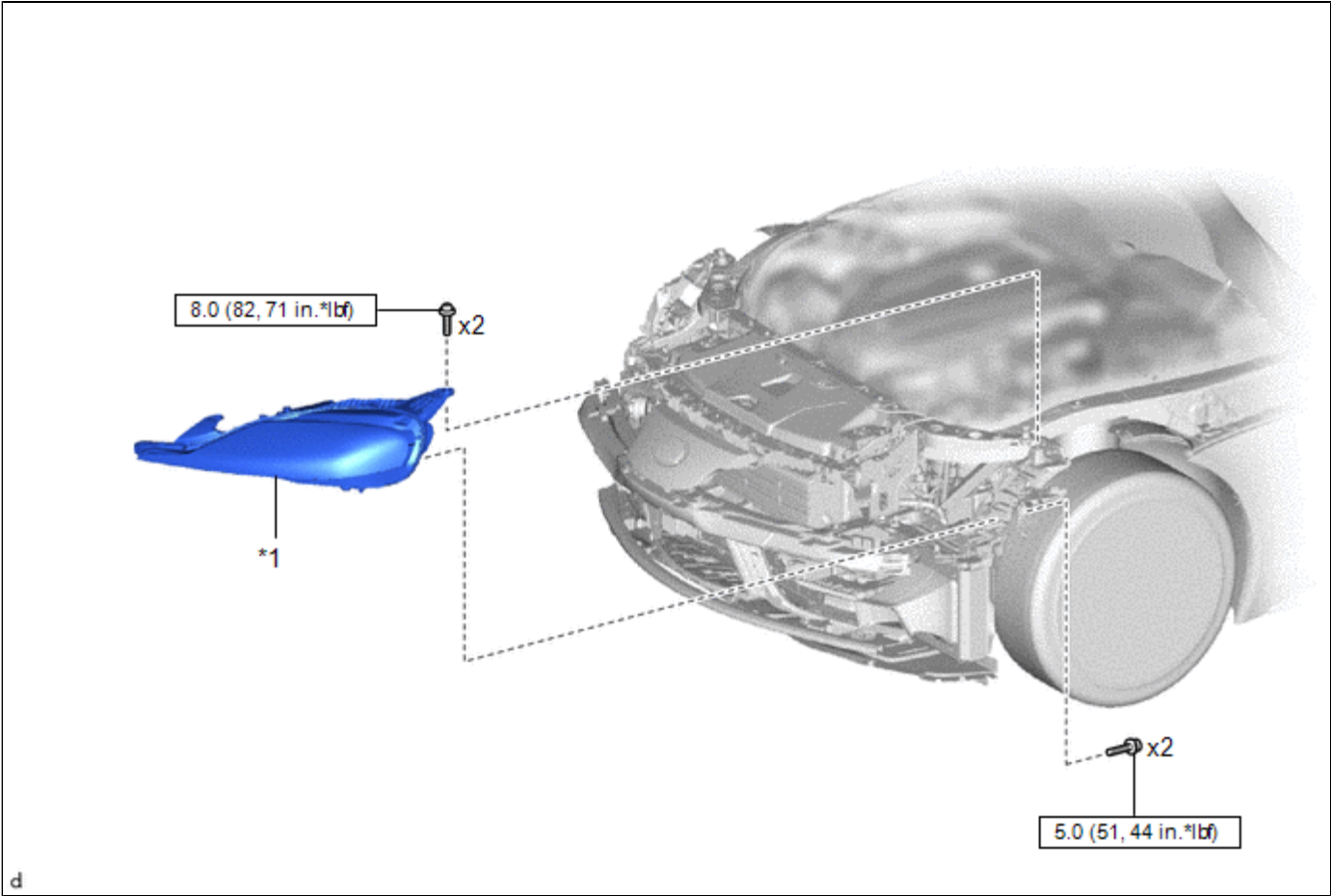
3. INSTALL NO. 1 INSTRUMENT PANEL GARNISH SUB-ASSEMBLY

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCK3
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEADLIGHT ASSEMBLY: COMPONENTS; 2020 MY Supra [03/2019 -]		

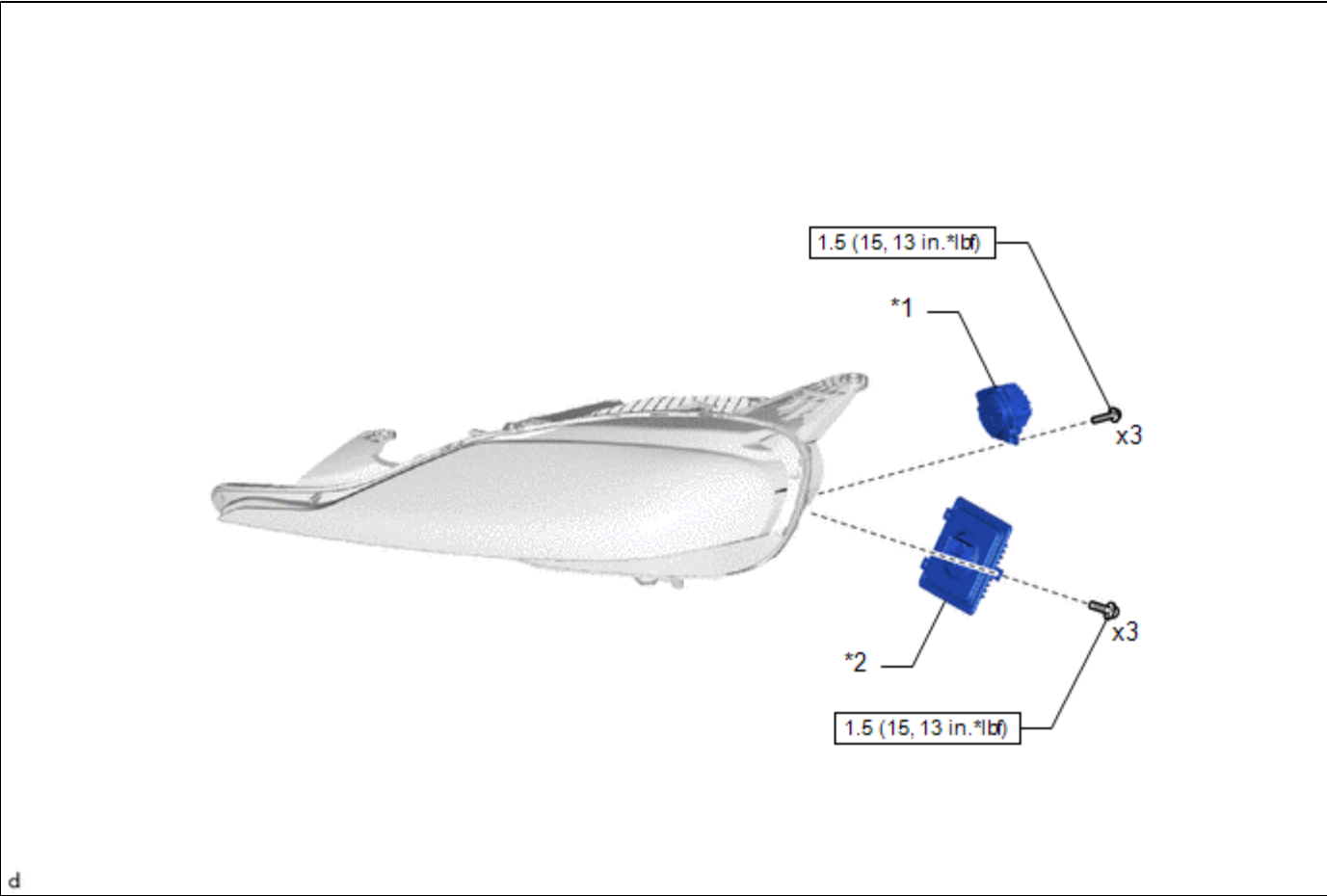
COMPONENTS

ILLUSTRATION



*1	HEADLIGHT ASSEMBLY	-	-
	N*m (kgf*cm, ft.*lbf): Specified torque	-	-

ILLUSTRATION

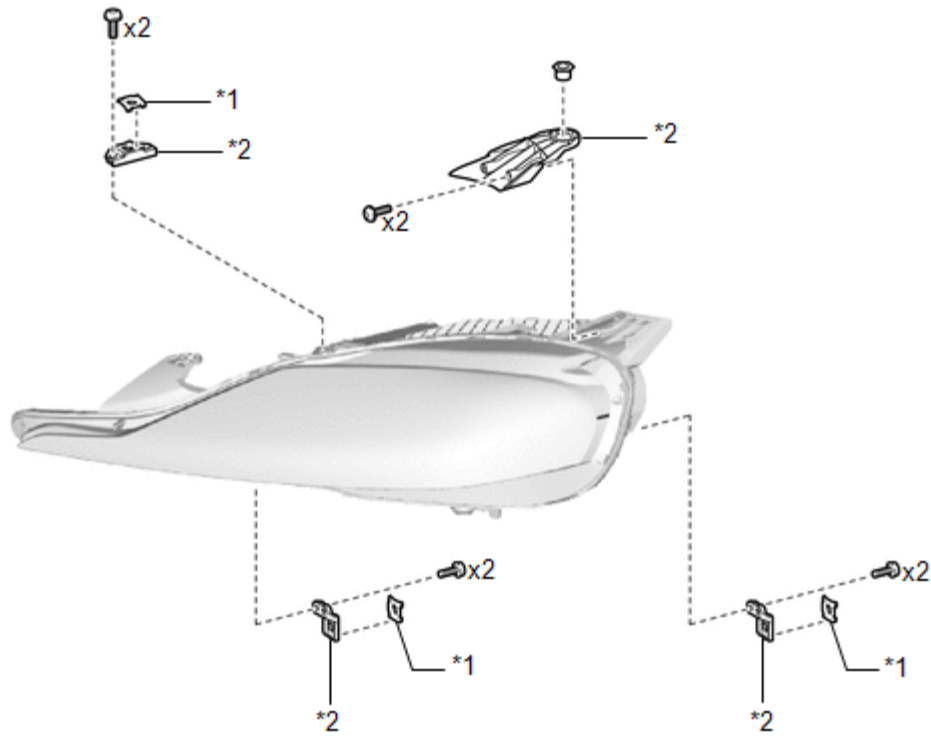


d

*1	HEADLIGHT LED UNIT ASSEMBLY	*2	LIGHT CONTROL LED ECU
	N*m (kgf*cm, ft.*lbf): Specified torque	-	-

ILLUSTRATION

*a



d

*1	REINFORCEMENT PLATE	*2	RETAINING RING
*a	Bracket for Repair	-	-

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCK4
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEADLIGHT ASSEMBLY: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

HINT:

- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

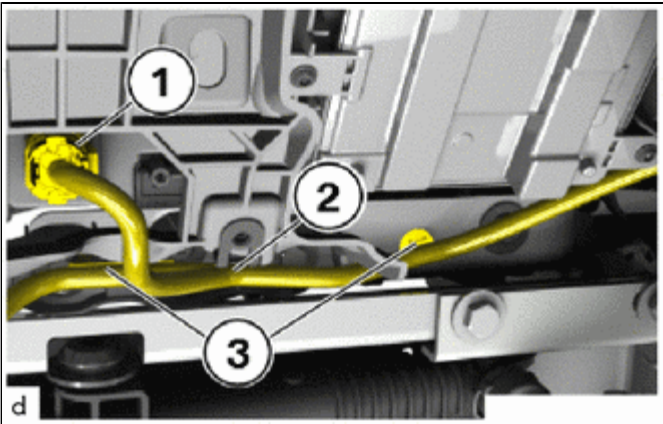
PROCEDURE

1. REMOVE FRONT BUMPER ASSEMBLY

Click here [INFO](#)

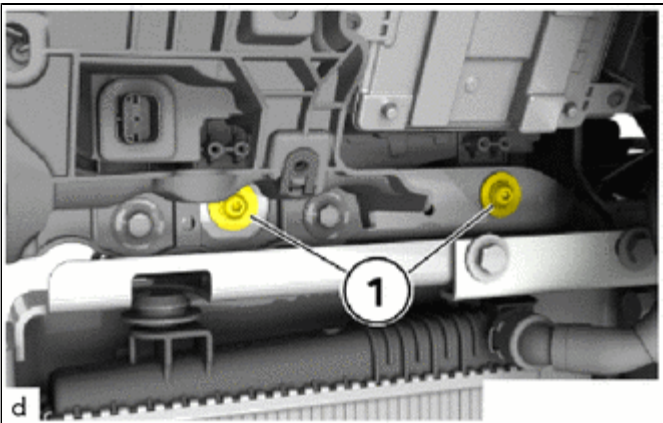
2. REMOVE HEADLIGHT ASSEMBLY

(a) Disconnect the connector (1).

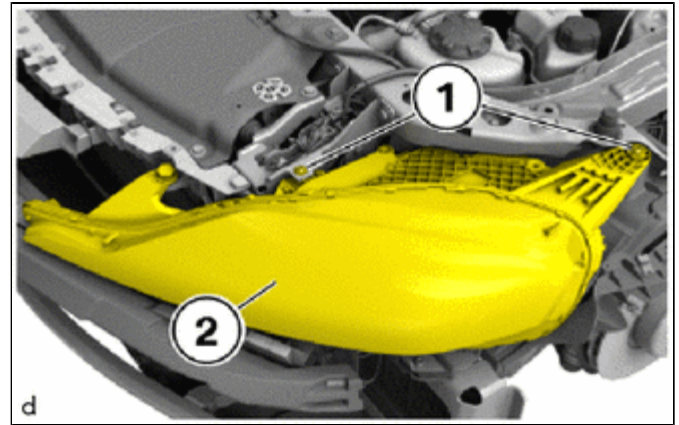


(b) Disengage the clamps (3) to disconnect the wiring harness (2).

(c) Remove the T30 bolts (1).



(d) Remove the T30 bolts (1).



(e) Guide out and remove the headlight assembly (2) to the front.



Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCK5
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEADLIGHT ASSEMBLY: DISASSEMBLY; 2020 MY Supra [03/2019 -]		

DISASSEMBLY

CAUTION / NOTICE / HINT

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](#)

CAUTION / NOTICE / HINT

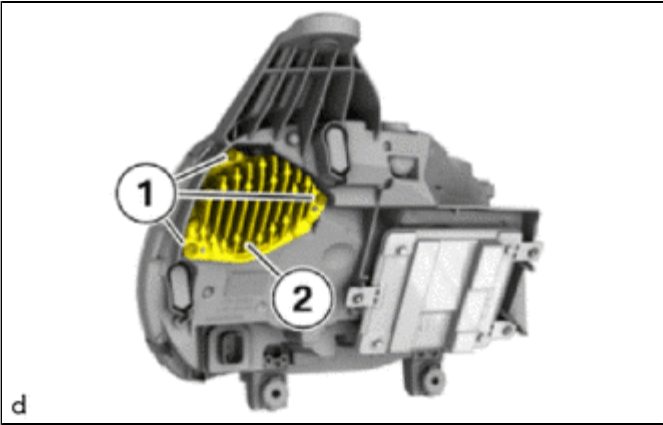
HINT:

Description is for left component only. Procedure on the right side is identical.

PROCEDURE

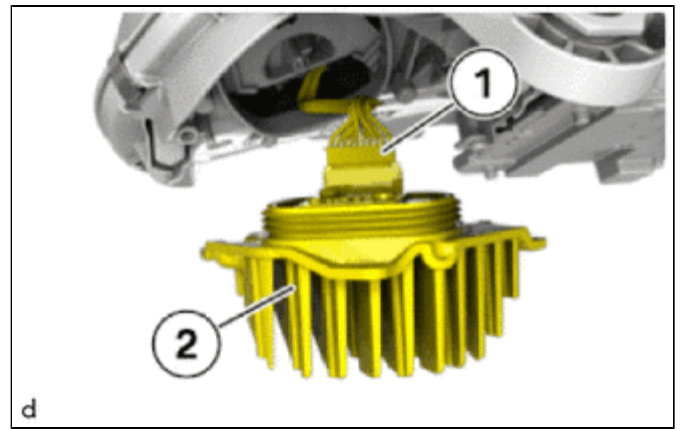
1. REMOVE HEADLIGHT LED UNIT ASSEMBLY

(a) Remove the T20 screws (1).



(b) Pull headlight LED unit assembly (2) out of the headlight assembly.

(c) Disconnect the connector (1) to remove the headlight LED unit assembly (2).



2. REMOVE LIGHT CONTROL LED ECU

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCK8
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEADLIGHT ASSEMBLY: ADJUSTMENT; 2020 MY Supra [03/2019 -]		

ADJUSTMENT

CAUTION / NOTICE / HINT

NOTICE:

- Observe the operating instructions for the headlight adjusting device.
- Do not perform headlight adjustment immediately after lowering the vehicle on the vehicle hoist. In this case, move the vehicle for approx. 15 m on its own wheels before headlight adjustment.

HINT:

Description is for left component only. Procedure on the right side is identical.

PROCEDURE

1. PREPARE VEHICLE FOR HEADLIGHT AIM ADJUSTMENT

- Vehicle parked on level ground.
- Check correct adjustment of headlights in relation to engine compartment lid (gap dimensions).

Click here [INFO](#)

- Check tire pressure and correct if necessary.
- Apply load equivalent to one person on driver's seat (75 kg, 165 lb).
- Vehicle with full fuel tank or appropriate additional weight in luggage compartment.

2. INSPECT HEADLIGHT AIMING

- Start the engine.

- For equipment variant with manual headlight beam throw adjustment: Move handwheel (1) to neutral position.



- Light switch must be in "low beam/driving light" position (3).

NOTICE:

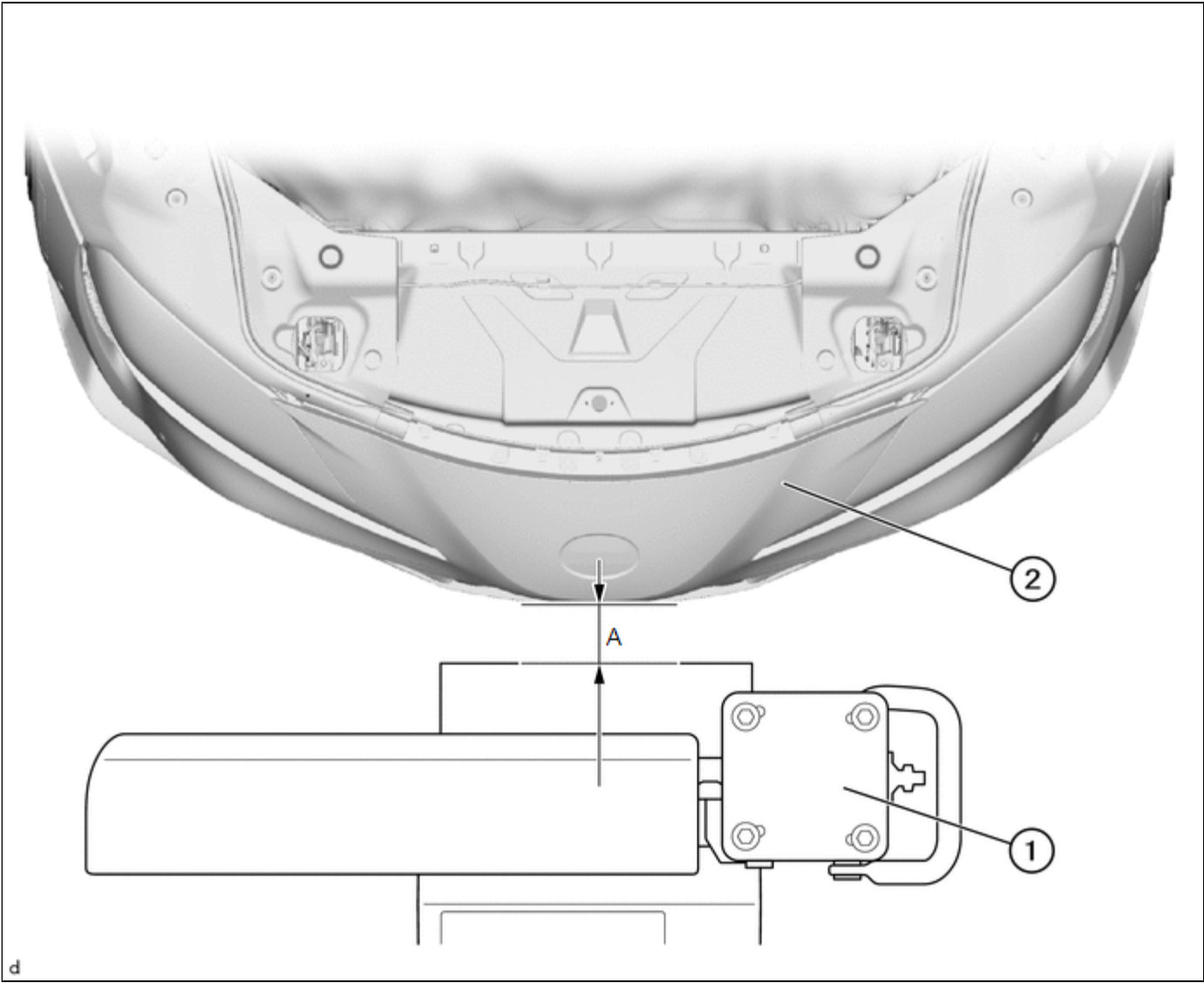
Do not carry out the headlight adjustment in the "automatic driving lights control" light switch position (2).

- Wait 80 seconds after switching on lights. During this time, do not move the vehicle and avoid vibrations.

NOTICE:

- Wheels must be in the straight-ahead position.
- Do not move the vehicle and steering wheel during the measuring and adjustment procedures.

(e) Position the headlight adjusting device (1) centrally in front of the vehicle (2) at distance (A) = 10 cm (0.328 ft.).



Standard:

AREA	SPECIFIED CONDITION
A	10 cm (0.328 ft.)

HINT:

- A correct measurement/adjustment requires exact positioning of the headlight adjusting device (1).
- The headlight adjusting device (1) must stand vertically to the vehicle longitudinal axis.

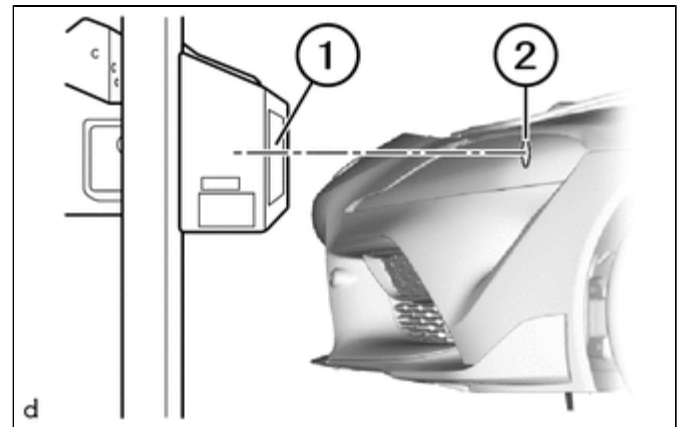
(f) The center of the collecting lens (1) must match the center (2) of headlight assembly horizontally.

NOTICE:

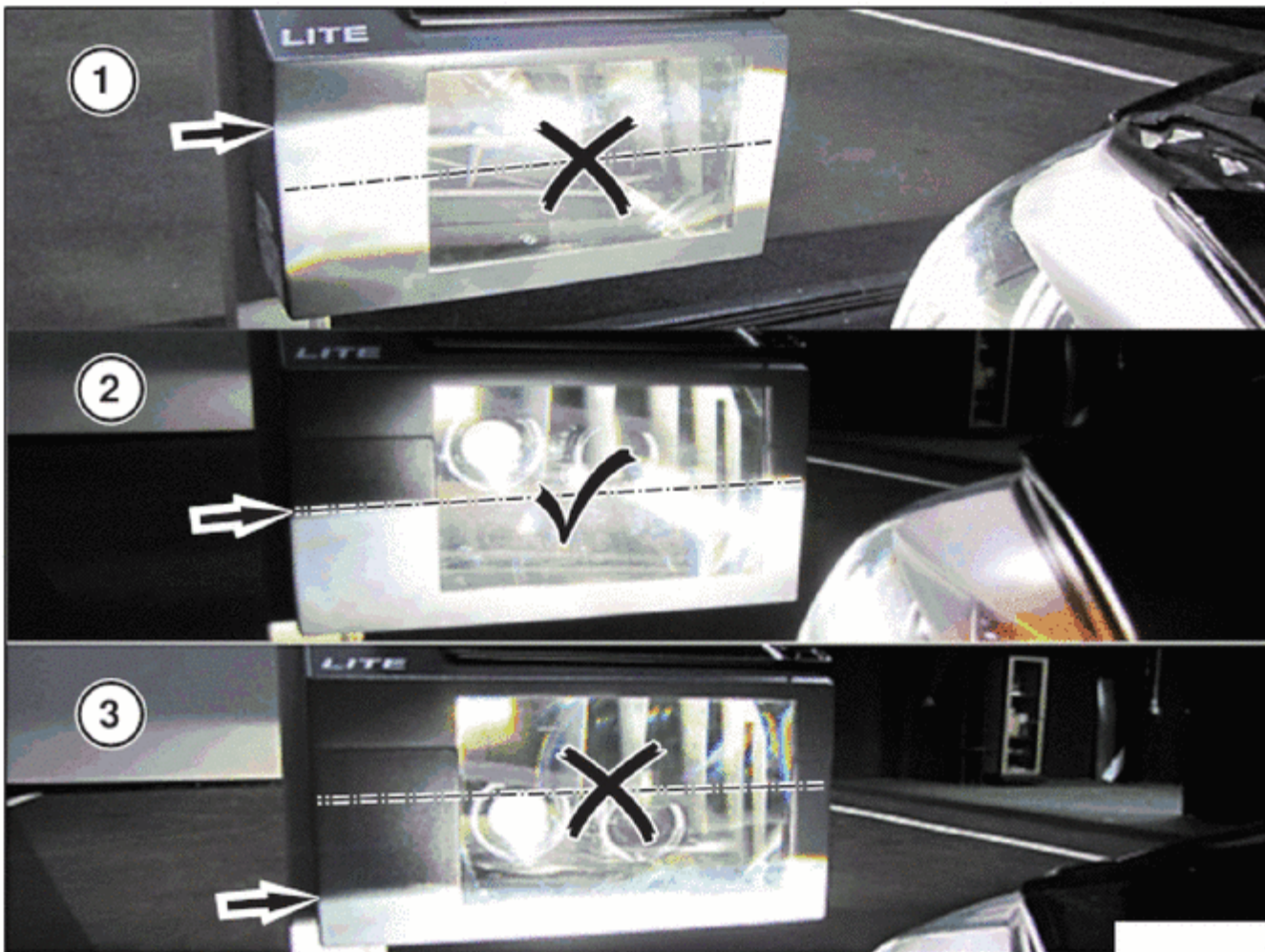
Always perform positioning of the headlight adjusting device (1) at the headlight assembly.

HINT:

Corrections are made by raising or lowering the headlight adjusting device.



(g) When positioned correctly, the light/dark boundary of the headlight (marked with arrow) must hit the collecting lens of the adjusting device in the center:



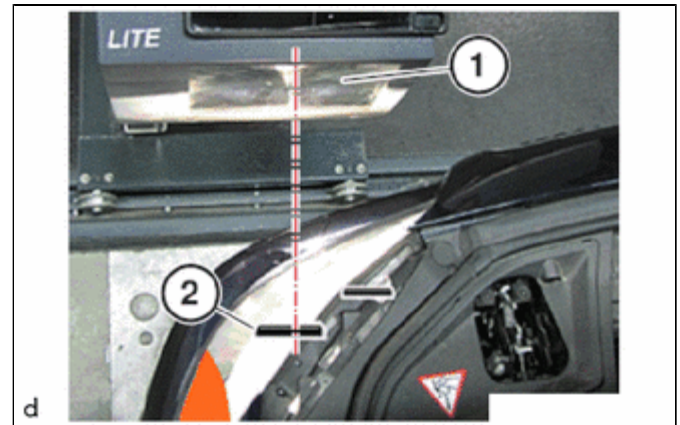
d

- (1) The headlight adjusting device is too low (1).
- (2) The headlight adjusting device is positioned correctly (2).
- (3) The headlight adjusting device is too high (3).

- (h) The center of the collecting lens (1) must match the center of headlight (2) vertically.

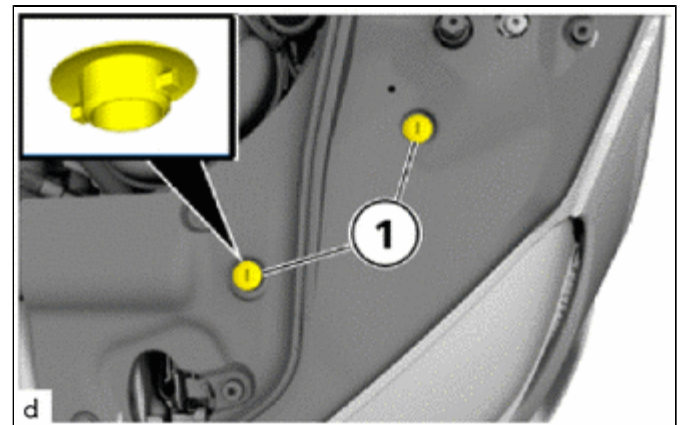
HINT:

Corrections are made by sliding the side of the headlight adjusting device to the left or right.



3. ADJUST HEADLIGHT AIMING

- (a) Turn both covers (1) above the adjusting screws for the light setting by 90° and remove.



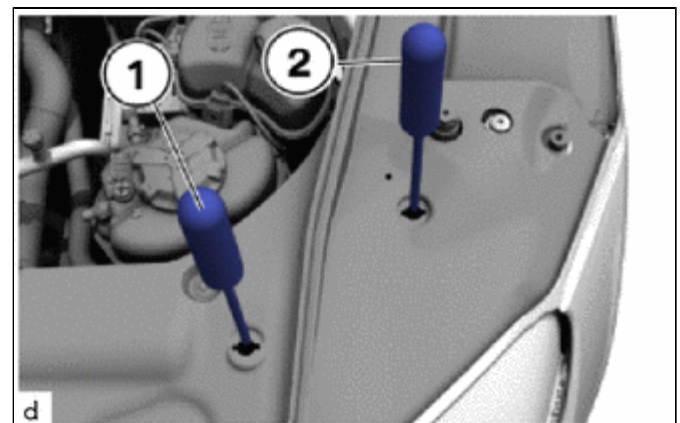
- (b) Adjust the aim vertically:

NOTICE:

The final turn of the aiming screw should be made in the clockwise direction. If the screw is tightened excessively, loosen it and then retighten it, so that the final turn of the screw is in the clockwise direction.

HINT:

- Since the low beam light and the high beam light are a unit, if the aim on the low beam is correct, the high beam should also be correct. However, check both beams just to make sure.
- When adjusting the vertical axis of the headlight, the horizontal axis will also change. It is necessary to adjust the vertical position first, and then correct the horizontal position.
- If it is not possible to correctly adjust headlight aim, check the headlight unit and headlight unit lens installation.
- Confirm the direction of rotation of the aiming screw by observing it while it is being adjusted. Due to the position of the screwdriver, the direction of rotation of the adjusting screw can be different than the direction of rotation of the screwdriver being used to adjust it.



(1) Adjust the aim of each headlight to the specified range by turning each aiming screw with a screwdriver (1).

(c) Adjust the aim horizontally:

NOTICE:

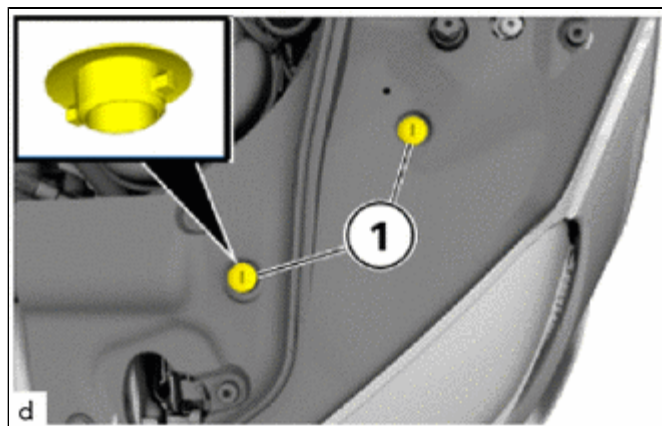
The final turn of the aiming screw should be made in the clockwise direction. If the screw is tightened excessively, loosen it and then retighten it, so that the final turn of the screw is in the clockwise direction.

HINT:

- Since the low beam light and the high beam light are a unit, if the aim on the low beam is correct, the high beam should also be correct. However, check both beams just to make sure.
- If it is not possible to correctly adjust headlight aim, check the headlight unit and headlight unit lens installation.
- Confirm the direction of rotation of the aiming screw by observing it while it is being adjusted. Due to the position of the screwdriver, the direction of rotation of the adjusting screw can be different than the direction of rotation of the screwdriver being used to adjust it.

(1) Adjust the aim of each headlight to the specified range by turning each aiming screw with a screwdriver (2).

(d) Install the covers (1) above the adjusting screws for the light setting and turn by 90°.



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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEADLIGHT ASSEMBLY: REASSEMBLY; 2020 MY Supra [03/2019 -]		

REASSEMBLY

CAUTION / NOTICE / HINT

HINT:
Description is for left component only. Procedure on the right side is identical.

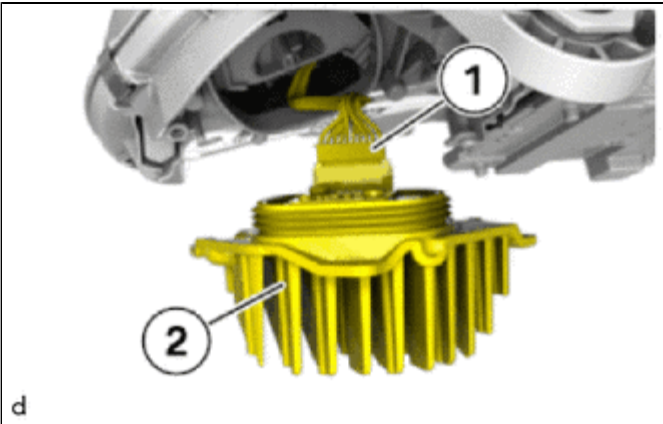
PROCEDURE

1. INSTALL LIGHT CONTROL LED ECU

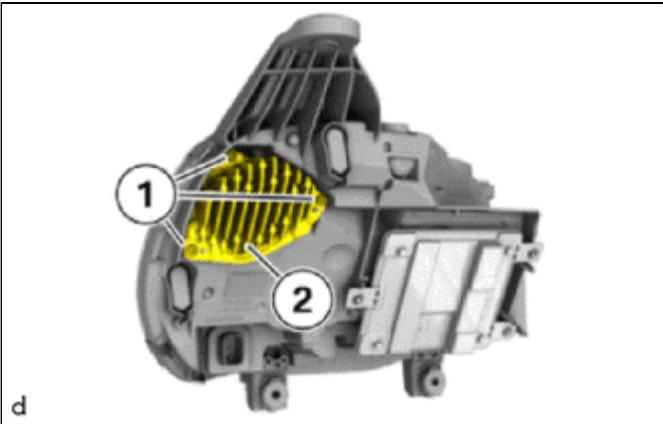
Click here [INFO](#)

2. INSTALL HEADLIGHT LED UNIT ASSEMBLY

(a) Connect the connector (1) to the headlight LED unit assembly (2).



(b) Set the headlight LED unit assembly (2) in the headlight assembly.



(c) Install the T20 screws (1).

Torque:
1.5 N·m {15 kgf·cm, 13 in·lbf}



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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEADLIGHT ASSEMBLY: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

CAUTION / NOTICE / HINT

HINT:

- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

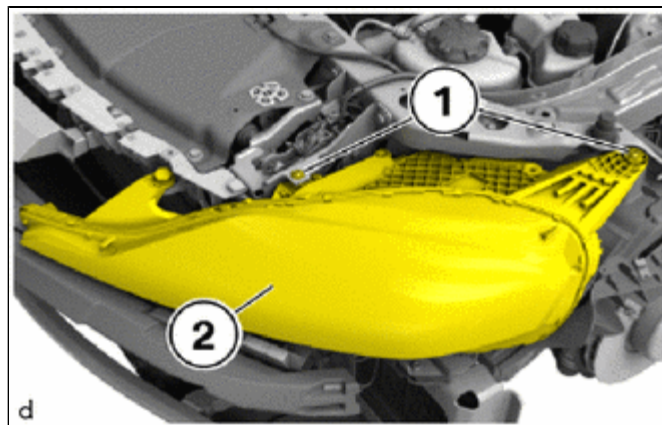
PROCEDURE

1. INSTALL HEADLIGHT ASSEMBLY

(a) Install the headlight assembly (2) with the T30 bolts (1).

Torque:

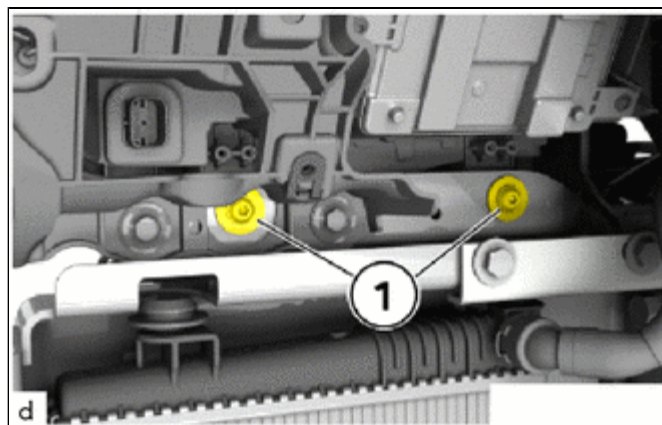
8.0 N·m {82 kgf·cm, 71 in·lbf}



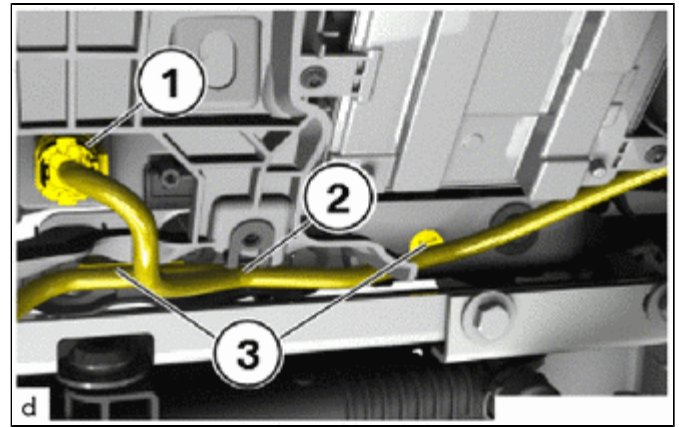
(b) Install the T30 bolts (1).

Torque:

5.0 N·m {51 kgf·cm, 44 in·lbf}



(c) Connect the connector (1).



(d) Engage the clamps (3) to connect the wiring harness (2).

2. INSTALL FRONT BUMPER ASSEMBLY

Click here [INFO](#)

3. ADJUST HEADLIGHT AIMING

Click here [INFO](#)

4. ADJUST MILLIMETER WAVE RADAR SENSOR (w / Toyota Supra Safety)

- Before starting adjustment:

Click here [INFO](#)

- Adjustment:

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001LLQP
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEADLIGHT ASSEMBLY: REPAIR; 2020 MY Supra [03/2019 -]		

REPAIR

CAUTION / NOTICE / HINT

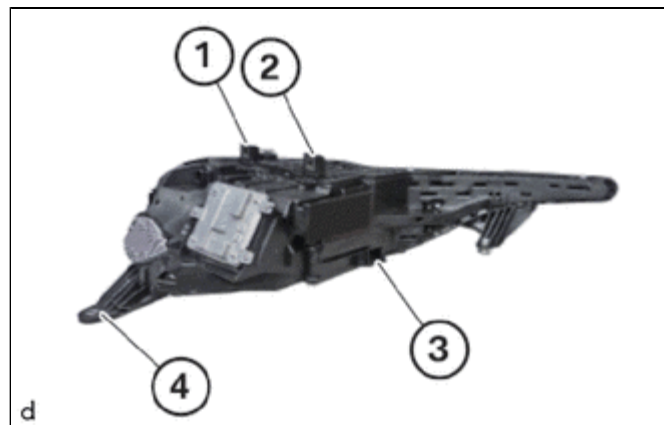
HINT:

- Use the same procedure for the RH side and LH side.
- The following procedure is for the LH side.
- If the installation area of the headlight assembly is damaged, use a supply retainer for a low-cost repair.
- Ensure that the headlight assembly is not damaged.

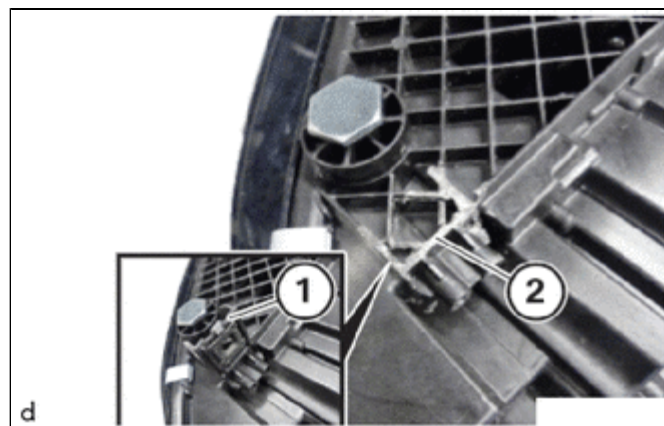
PROCEDURE

1. INSTALL HEADLIGHT REPAIR KIT

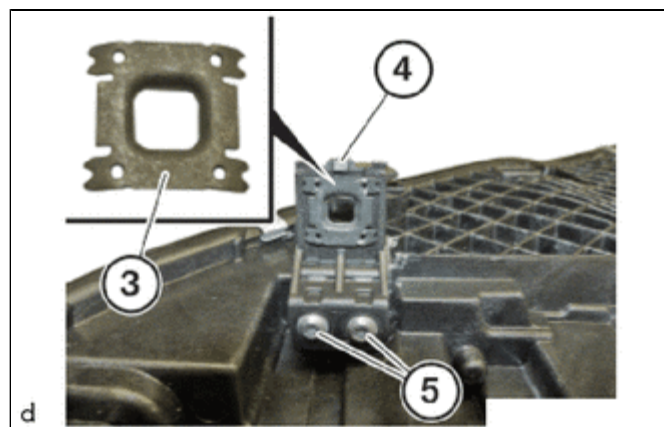
- (a) The headlight support repair kit can be used for the retaining ring (1) and (2) and (3) and (4).



- (b) If necessary, remove damaged retaining ring (1) as shown (2).

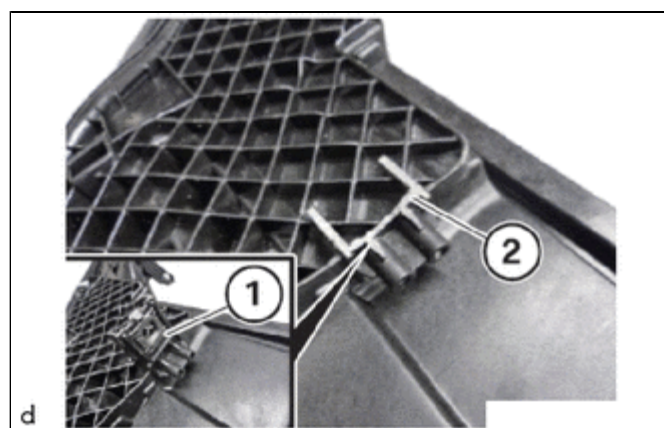


(c) Mount the enclosed reinforcement plate (3) in new retaining ring (4).

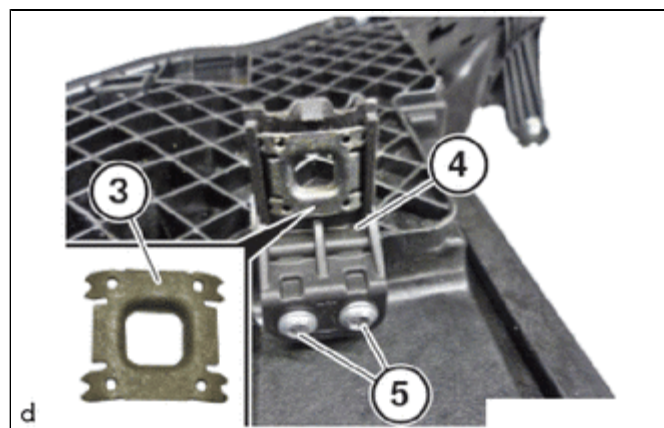


(d) Secure the new retaining ring with enclosed screws (5).

(e) If necessary, remove damaged retaining ring (1) as shown (2).

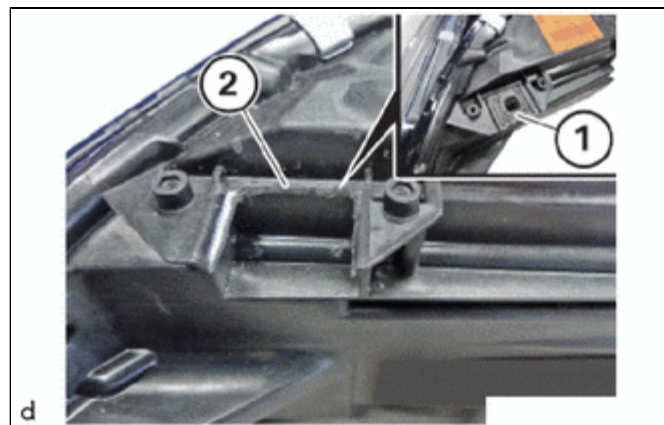


(f) Mount the enclosed reinforcement plate (3) in new retaining ring (4).

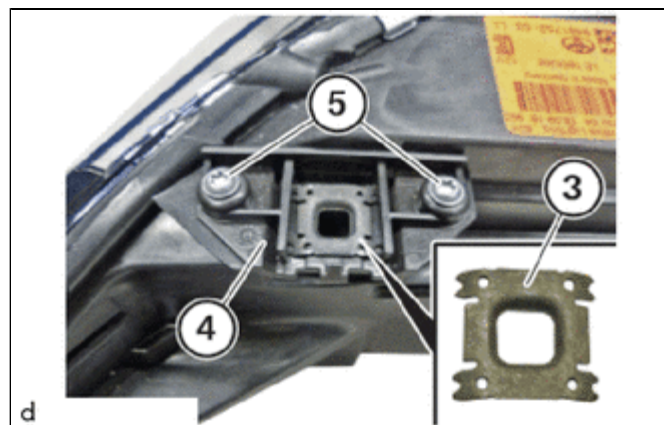


(g) Secure the new retaining ring with enclosed screws (5).

(h) If necessary, remove damaged retaining ring (1) as shown (2).

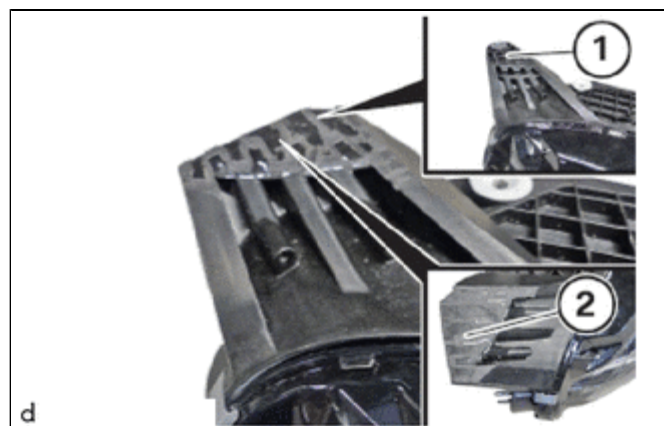


(i) Mount the enclosed reinforcement plate (3) in new retaining ring (4).

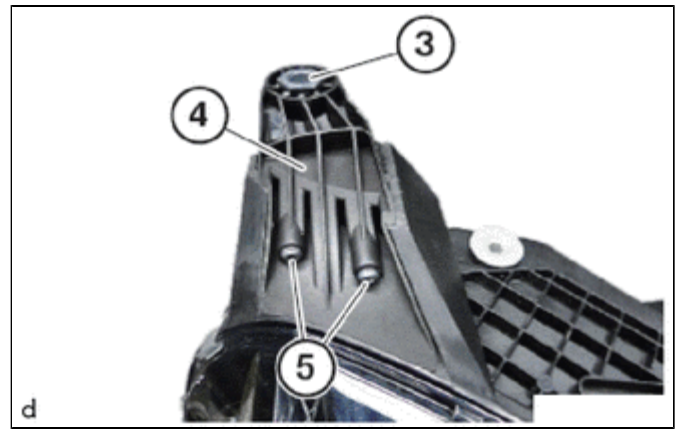


(j) Secure the new retaining ring with enclosed screws (5).

(k) If necessary, remove damaged retaining ring (1) as shown (2).



(l) Screw in the enclosed nut (3) to new retaining ring (4).

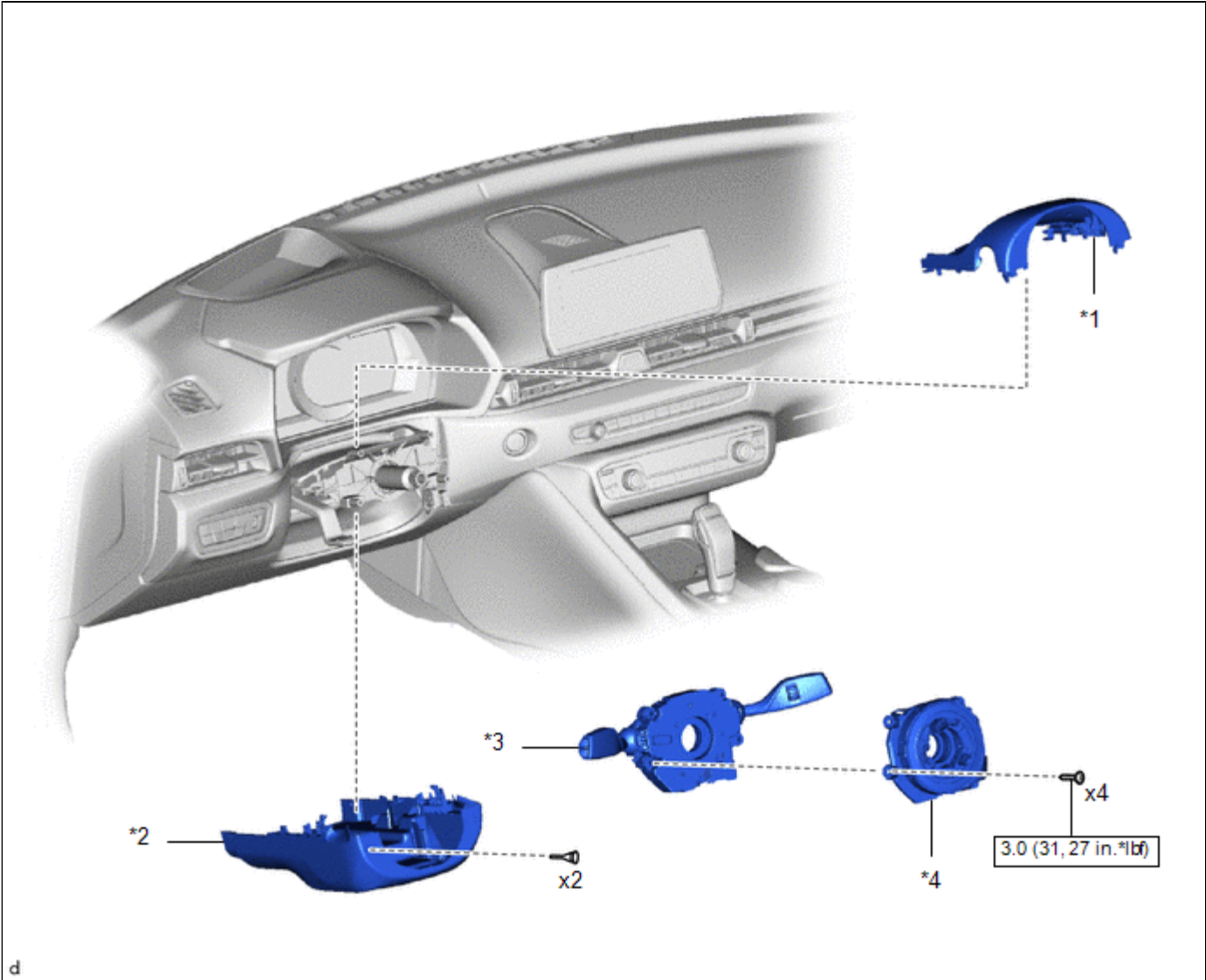


(m) Secure the new retaining ring with enclosed screws (5).

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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEADLIGHT DIMMER SWITCH: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	UPPER STEERING COLUMN COVER	*2	LOWER STEERING COLUMN COVER
*3	TURN SIGNAL SWITCH ASSEMBLY	*4	SPIRAL CABLE SUB-ASSEMBLY
	N*m (kgf*cm, ft.*lbf): Specified torque	-	-

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKP
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEADLIGHT DIMMER SWITCH: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

CAUTION:

- Airbag unit.

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.
- Before performing any work on the airbag, always disconnect the battery earth lead from the battery.
- Airbag unit may only be set down with the cushion (airbag itself) facing upwards.
- For additional information see: Safety regulations on handling components with gas generators.

Click here

INFO

PROCEDURE

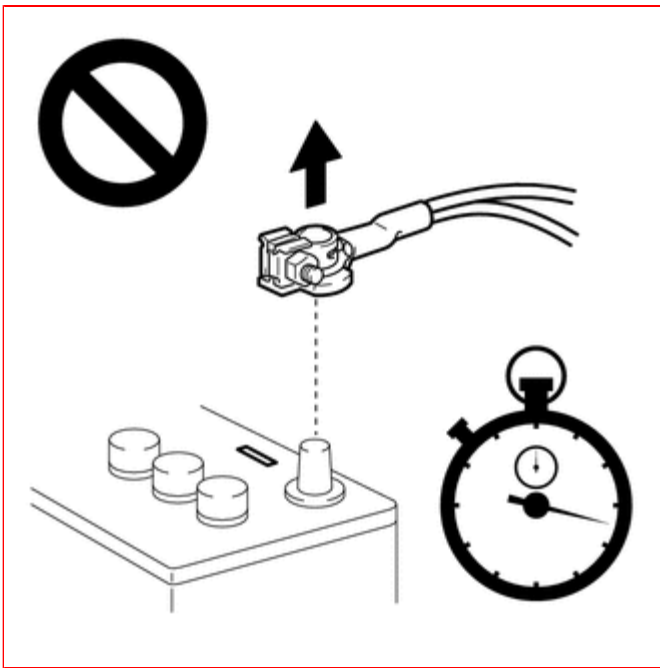
1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

Click here

INFO

CAUTION:

- Wait at least 60 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS



system.

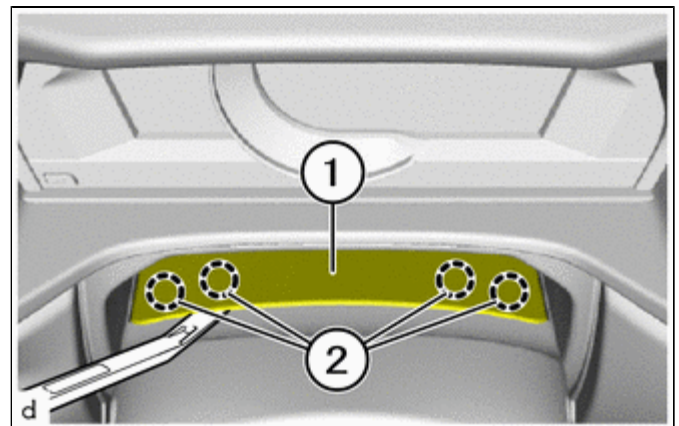
- If the airbag deploys for any reason, it may cause a serious accident.

2. REMOVE STEERING WHEEL ASSEMBLY

Click here [INFO](#)

3. REMOVE UPPER STEERING COLUMN COVER

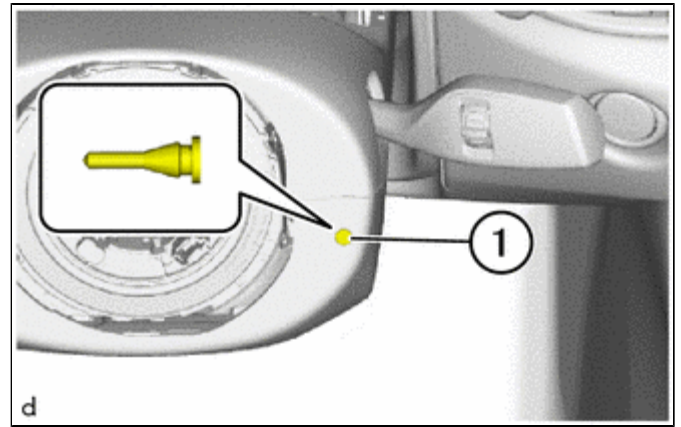
- (a) Using a moulding remover A, disengage the clips (2) to disconnect the steering column cover (1).



- (b) Press in the rubber plug (1) with the T15 "TORX" screwdriver to the inside and into the lower steering column cover.

HINT:

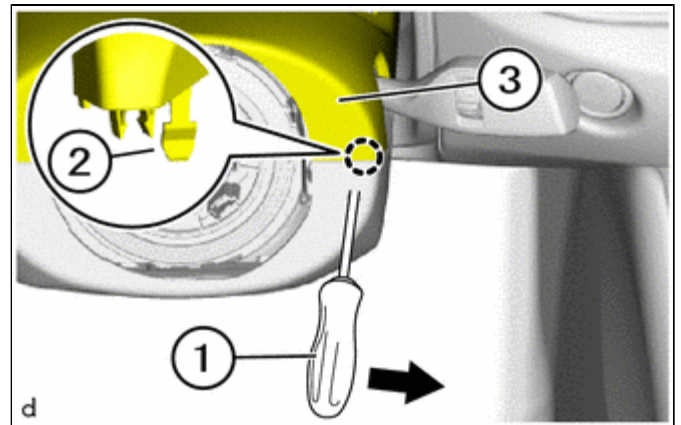
- The rubber plugs are reusable. Process to reuse the rubber plug: remove the lower steering column cover and remove the rubber plug.
- Perform the operations on the left and right side.



(c) Press the T15 "TORX" screwdriver (1) in the direction of the arrow and lever the tab (2) to the inside.

HINT:

Perform the operations on the left and right side.

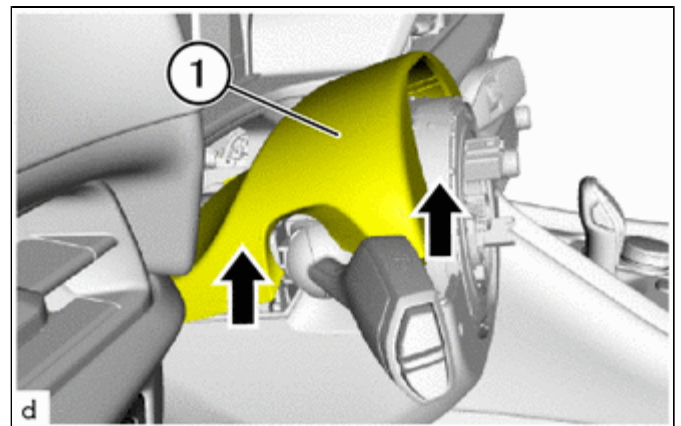


(d) Press the upper steering column cover (3) to the top at the same time.

HINT:

Perform the operations on the left and right side.

(e) Remove the upper steering column cover (1) out to the top as shown in the illustration.

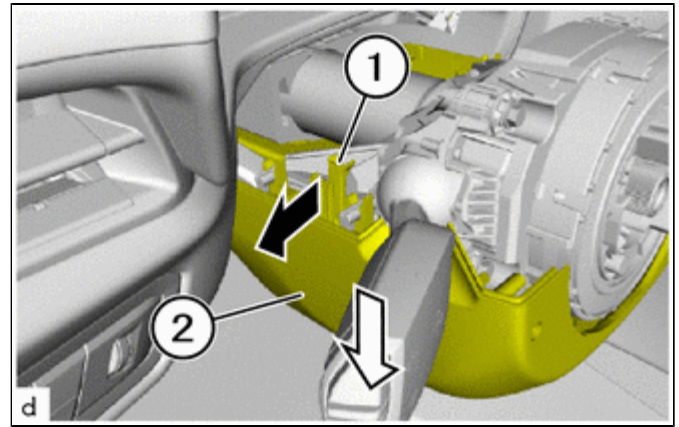


4. REMOVE LOWER STEERING COLUMN COVER

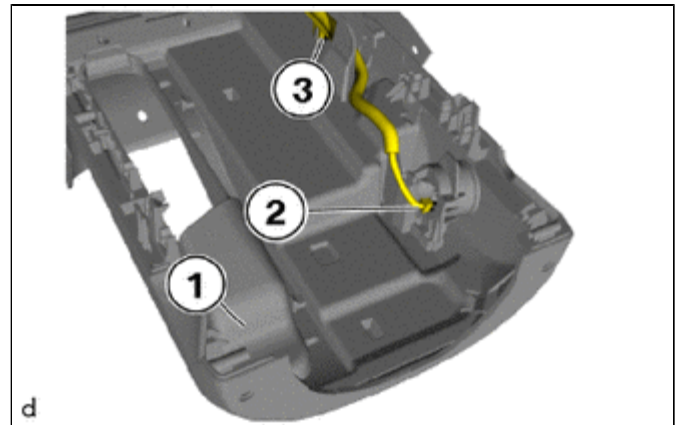
- (a) Push the claw (1) to the outside in the direction of the arrow and unclip the lower steering column cover (2) in the direction of the arrow to the bottom.

HINT:

Perform the operations on the left and right side.



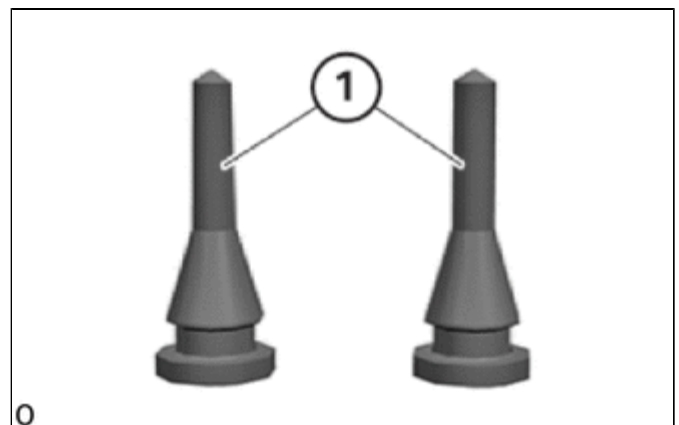
- (b) Tilt the lower steering column cover (1) down.



- (c) Disconnect the connector (2).

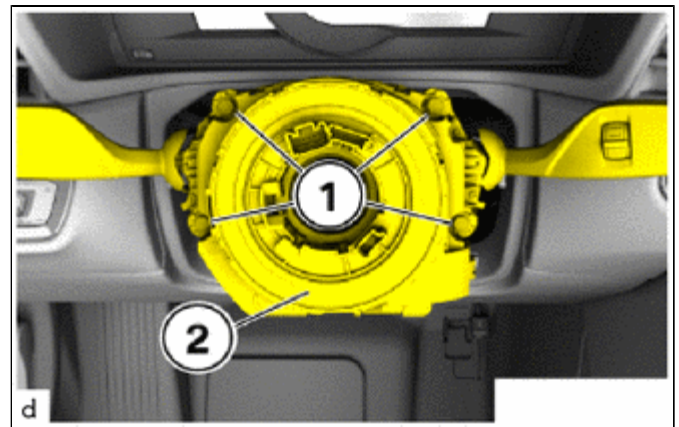
- (d) Disengage the guide (3) to remove the lower steering column cover (1).

- (e) Remove rubber plugs (1) from the lower steering column cover.



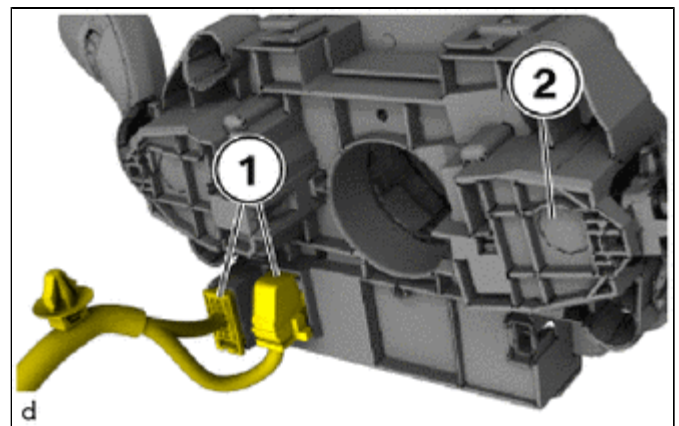
5. REMOVE TURN SIGNAL SWITCH ASSEMBLY

(a) Using a deep socket wrench 7 mm, remove the screws (1).



(b) Thread out the turn signal switch assembly (2).

(c) Disconnect the connectors (1) to remove the turn signal switch assembly (2).



6. REMOVE SPIRAL CABLE SUB-ASSEMBLY

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKQ
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEADLIGHT DIMMER SWITCH: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

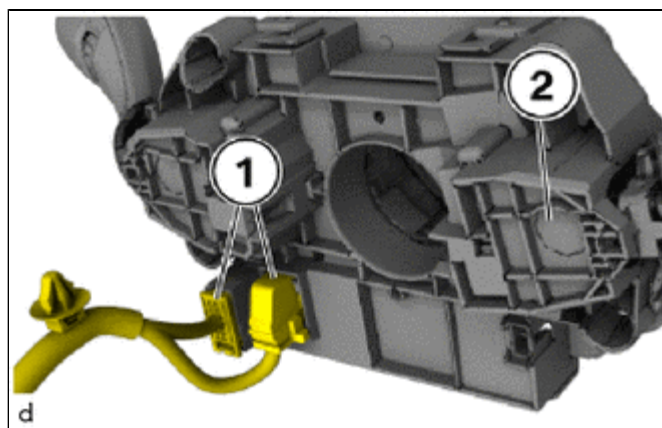
PROCEDURE

1. INSTALL SPIRAL CABLE SUB-ASSEMBLY

Click here [INFO](#)

2. INSTALL TURN SIGNAL SWITCH ASSEMBLY

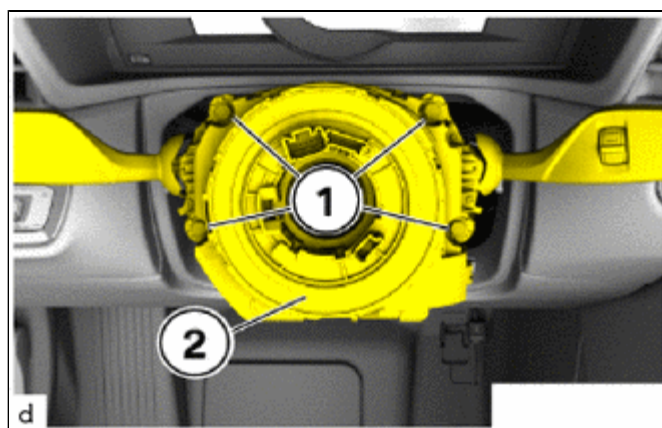
(a) Connect the connectors (1) with the turn signal switch assembly (2).



(b) Using a deep socket wrench 7 mm, install the turn signal switch assembly (2) with the screws (1)

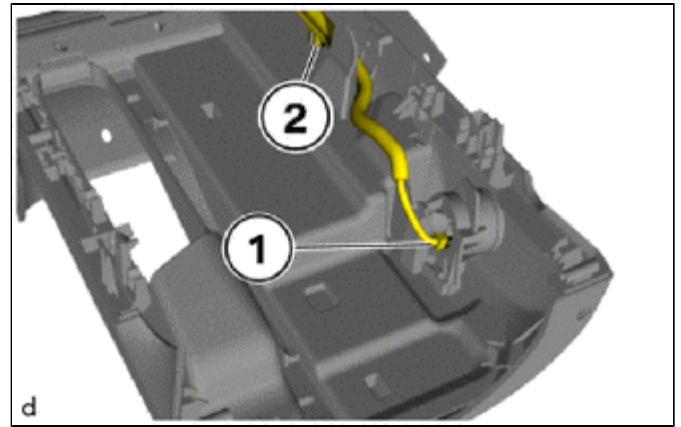
Torque:

3.0 N·m {31 kgf·cm, 27 in·lbf}



3. INSTALL LOWER STEERING COLUMN COVER

(a) Connect the connector (1).

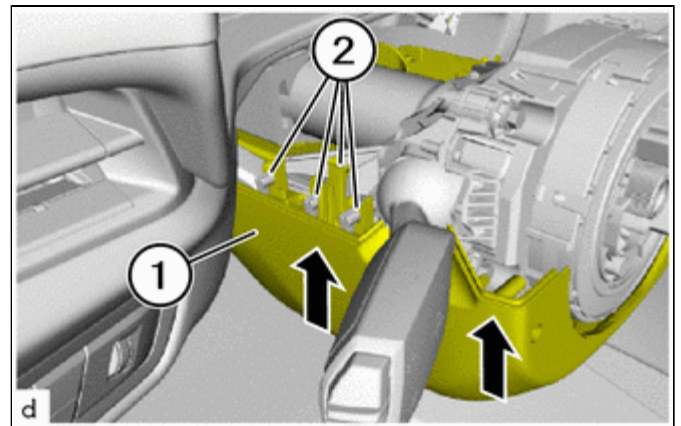


(b) Engage the guide (2).

(c) Align the lower steering column cover (1) at the claw (2) to the steering column.

HINT:

Perform the operations on the left and right side.



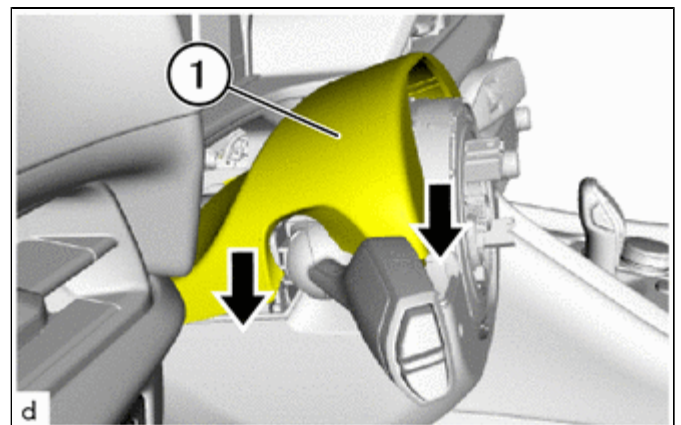
(d) Press the lower steering column cover (1) upwards in direction of arrow until the claw (2) engage.

HINT:

Perform the operations on the left and right side.

4. INSTALL UPPER STEERING COLUMN COVER

(a) Guide in the upper steering column cover (1).



(b) Press the upper steering column cover (1) down and engage.

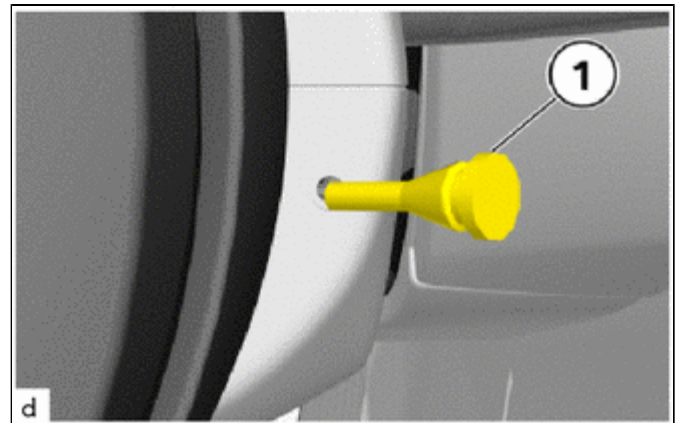
NOTICE:

The upper steering column cover (1) must engage audibly and perceptibly.

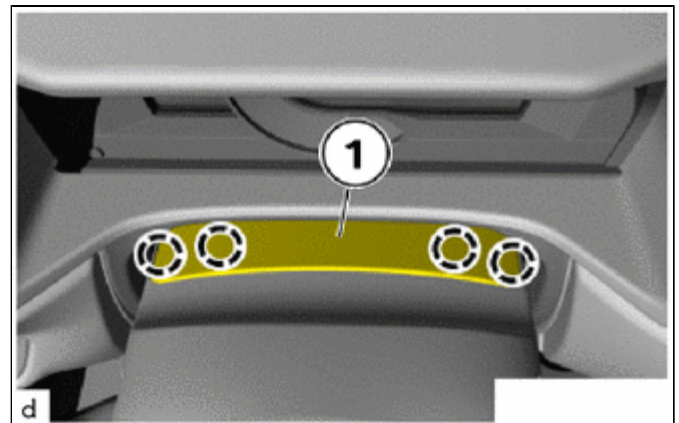
(c) Seal the bore hole using a rubber plug (1).

HINT:

Perform the operations on the left and right side.



(d) Engage the clips to connect the steering column cover (1).

**5. INSTALL STEERING WHEEL ASSEMBLY**

Click here [INFO](#)

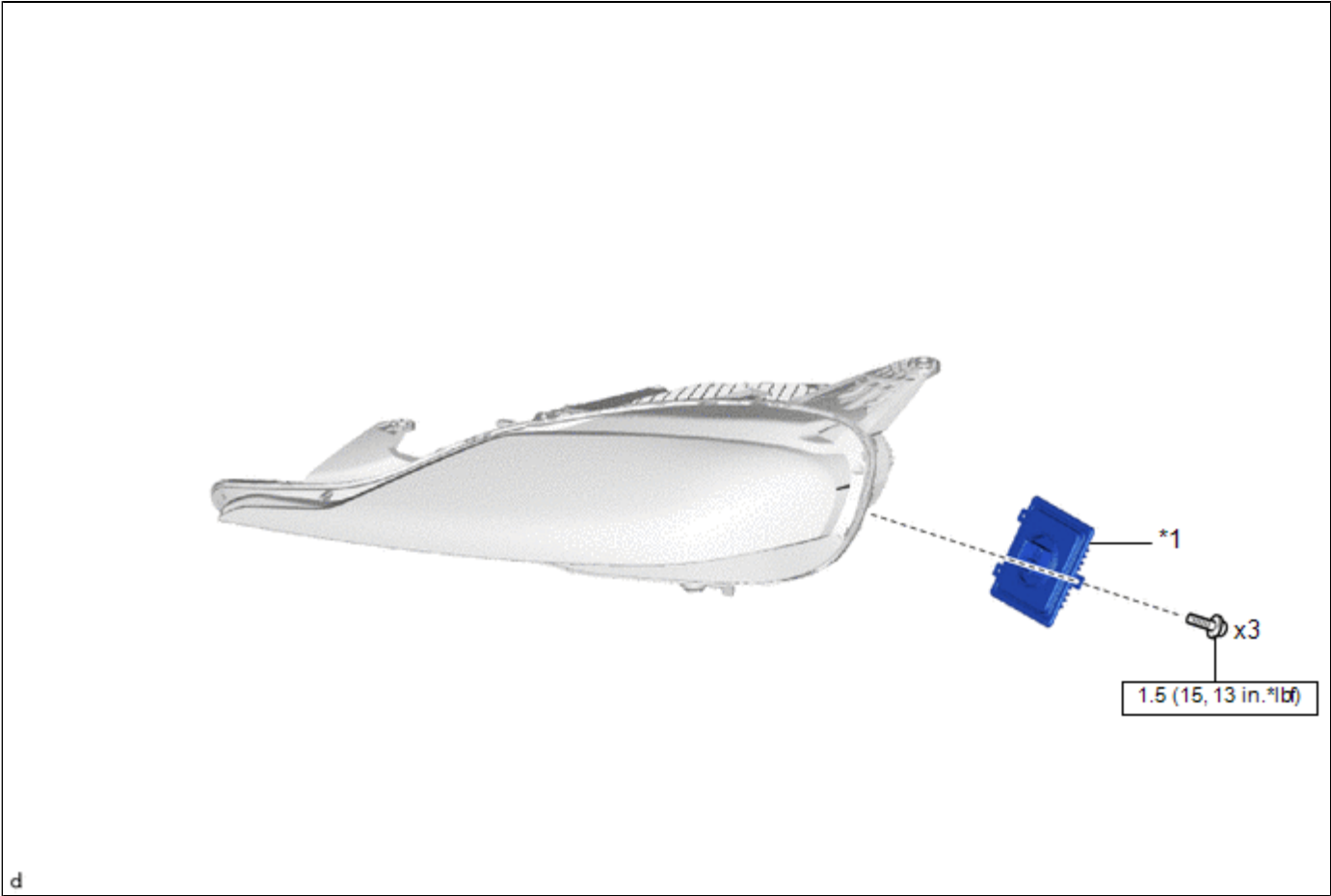
6. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCL6
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEADLIGHT ECU: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	LIGHT CONTROL LED ECU	-	-
	N*m (kgf*cm, ft.*lbf): Specified torque	-	-

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCL7
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEADLIGHT ECU: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

NOTICE:

- Electrostatic discharge.
 - Damage to or destruction of electrical components.
 - Leave electrical components in original packaging until just before they are installed. Use the original packaging only for any return shipments. Always package removed components straight away.
 - Only touch the housings of electrical components. Do not touch pins or multi-pin connectors directly.
 - Wear electrically conductive clothing and antistatic shoes (with ESD symbol).
 - For additional information see:

Click here [INFO](#)

HINT:

- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

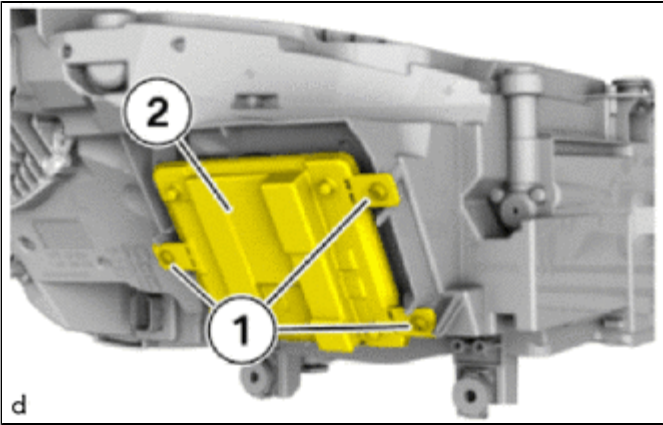
PROCEDURE

1. REMOVE HEADLIGHT ASSEMBLY

Click here [INFO](#)

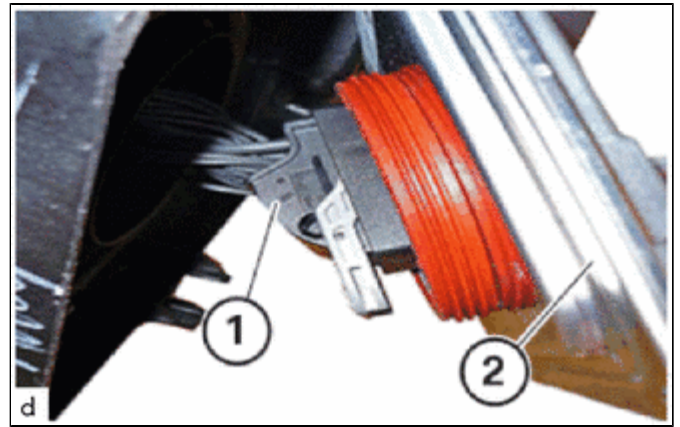
2. REMOVE LIGHT CONTROL LED ECU

(a) Remove the T20 screws (1).



(b) Pull light control LED ECU (2) out of the headlight assembly.

(c) Disconnect the connector (1).



(d) Remove the light control LED ECU (2).

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCL8
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEADLIGHT ECU: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

CAUTION / NOTICE / HINT

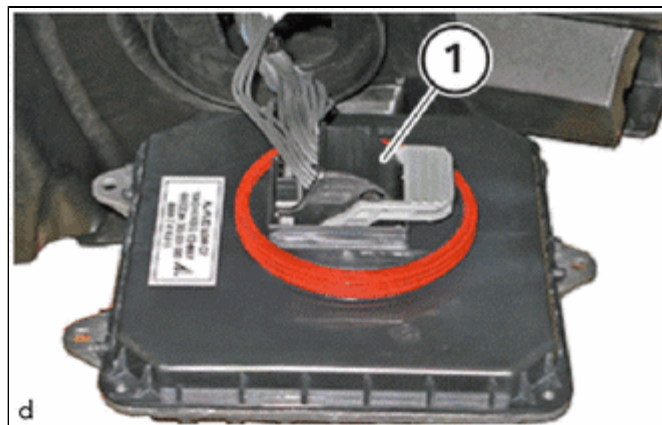
HINT:

- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

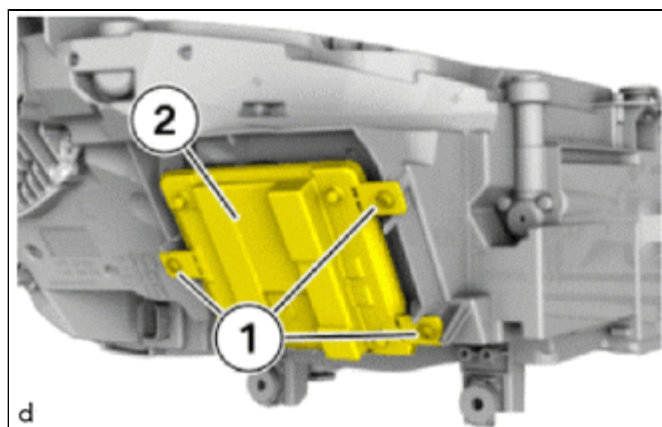
PROCEDURE

1. INSTALL LIGHT CONTROL LED ECU

(a) Connect the connector (1).



(b) Set the light control LED ECU (2) in the headlight assembly.



(c) Install the T20 screws (1).

Torque:

1.5 N·m {15 kgf·cm, 13 in·lbf}

2. INSTALL HEADLIGHT ASSEMBLY

3. 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.
- 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.
- (d) Accept and fully process the measures 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.

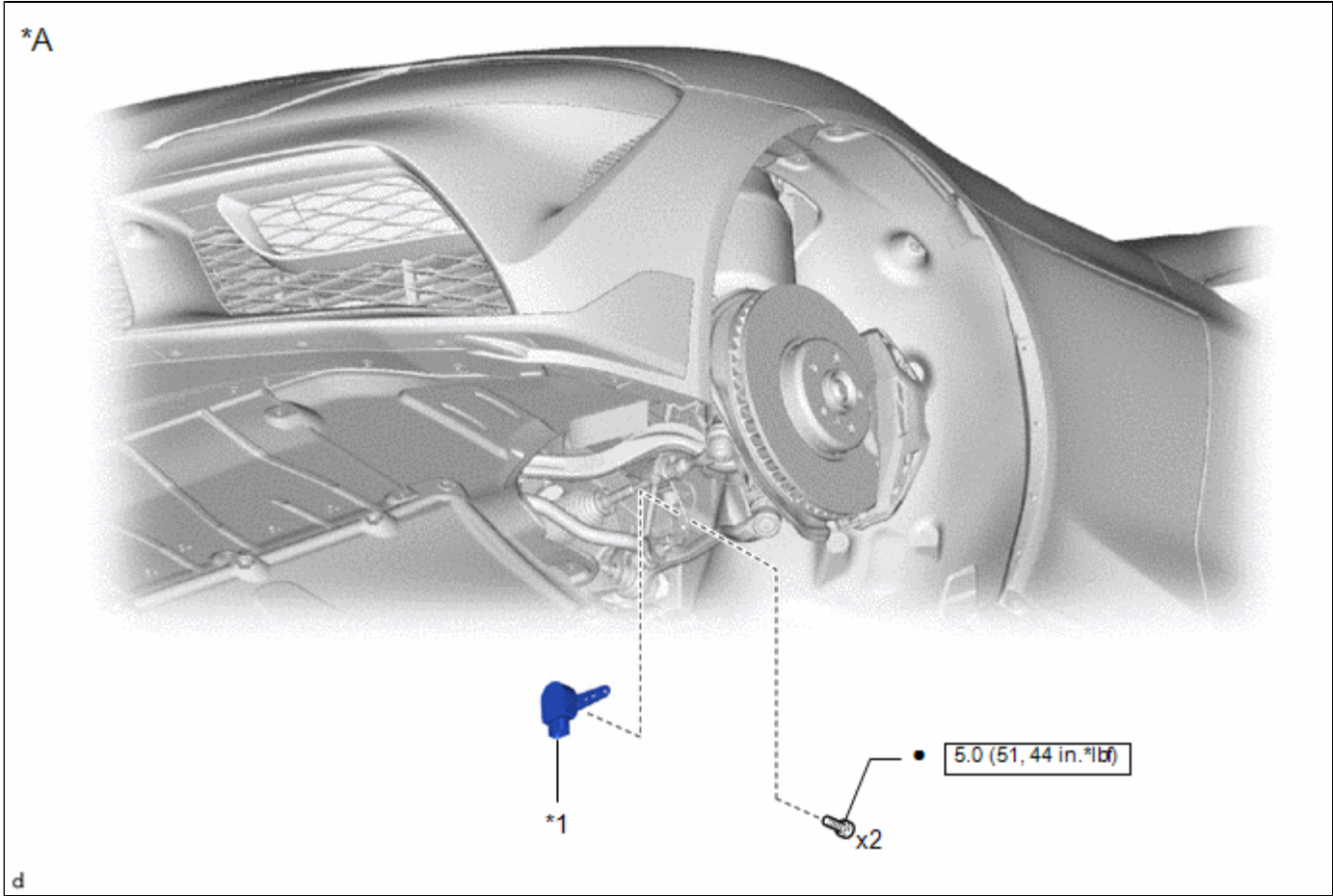
- (f) Carry out vehicle test.
- (g) Delete the fault memory.
- (h) Disconnect the diagnosis system from the vehicle.
- (i) Disconnect the battery charger from the vehicle.



Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCL3
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEIGHT CONTROL SENSOR: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

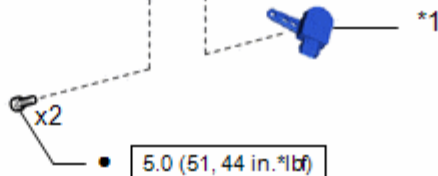
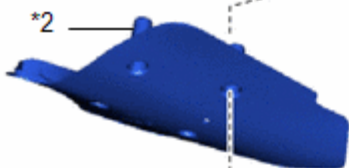
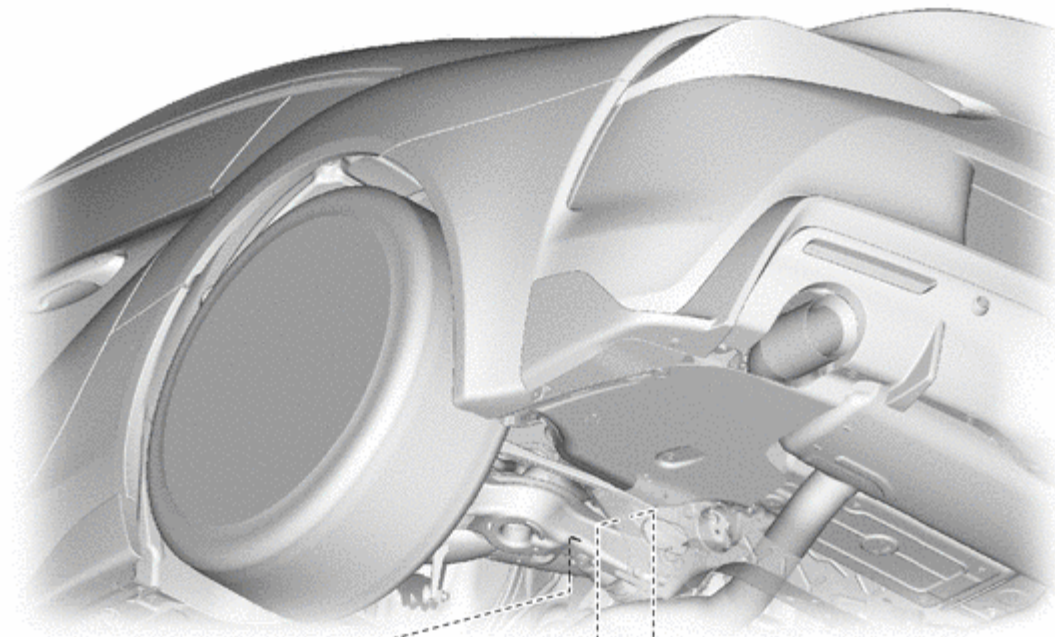
ILLUSTRATION



*A	for Front Side	-	-
*1	FRONT HEIGHT CONTROL SENSOR SUB-ASSEMBLY	-	-
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part

ILLUSTRATION

*A



d

*A	for Rear Side	-	-
*1	REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY	*2	REAR SUSPENSION ARM COVER LH
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCL4
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEIGHT CONTROL SENSOR: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

CAUTION:

- Vehicle may slip off the vehicle hoist if the vehicle hoist is handled incorrectly.

Danger! Life-threatening injuries!

- Observe safety information on raising the vehicle using a vehicle hoist.
- 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](#)

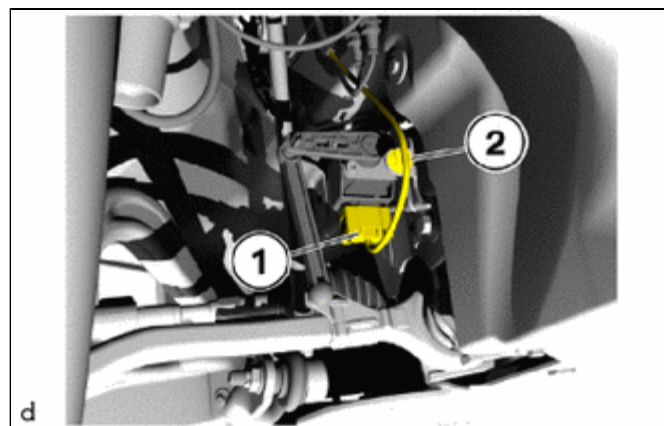
PROCEDURE

1. REMOVE FRONT WHEEL LH (for Front Side)

Click here [INFO](#)

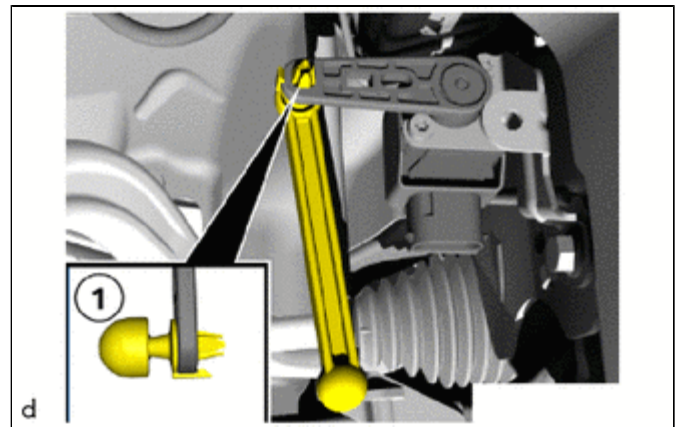
2. REMOVE FRONT HEIGHT CONTROL SENSOR SUB-ASSEMBLY (for Front Side)

(a) Disconnect the connector (1).

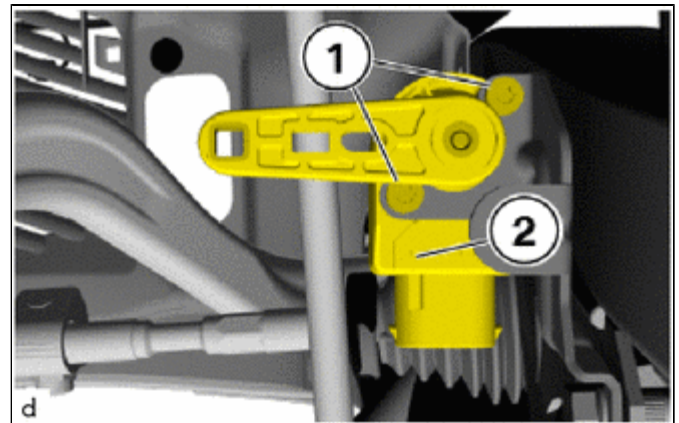


(b) Disengage the clamp (2).

(c) Disengage the clamp (1).



(d) Remove the T20 bolts (1) and front height control sensor sub-assembly (2).

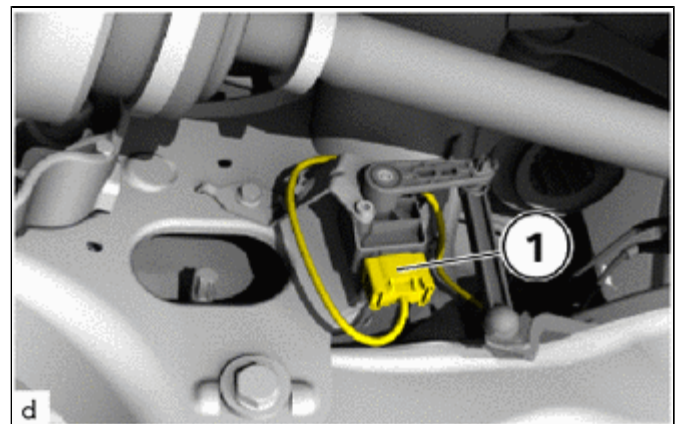


3. REMOVE REAR SUSPENSION ARM COVER LH (for Rear Side)

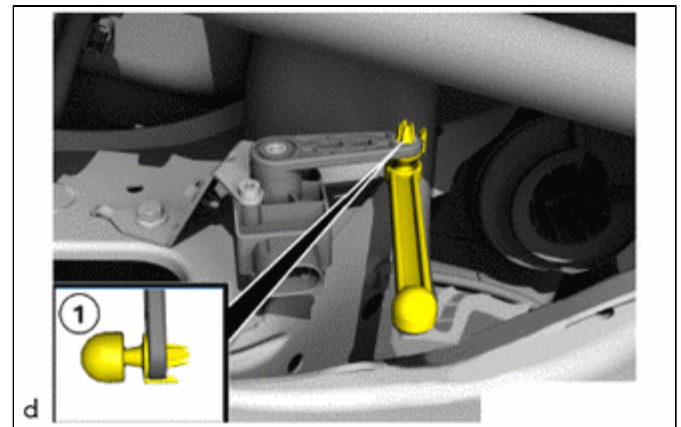
Click here [INFO](#)

4. REMOVE REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY (for Rear Side)

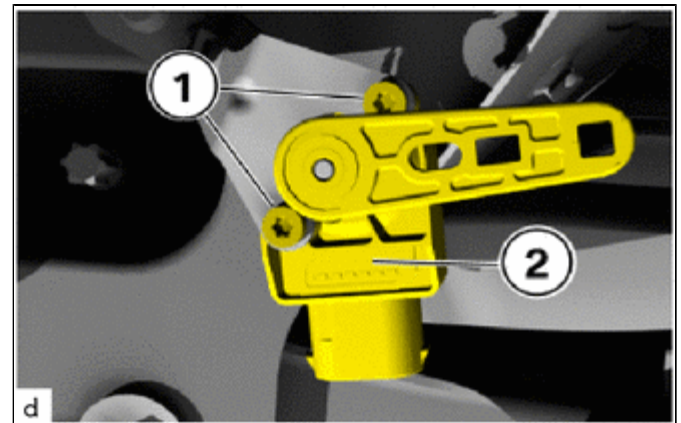
(a) Disconnect the connector (1).



(b) Disengage the clamp (1).



(c) Remove the T20 bolts (1) and rear height control sensor sub-assembly (2).



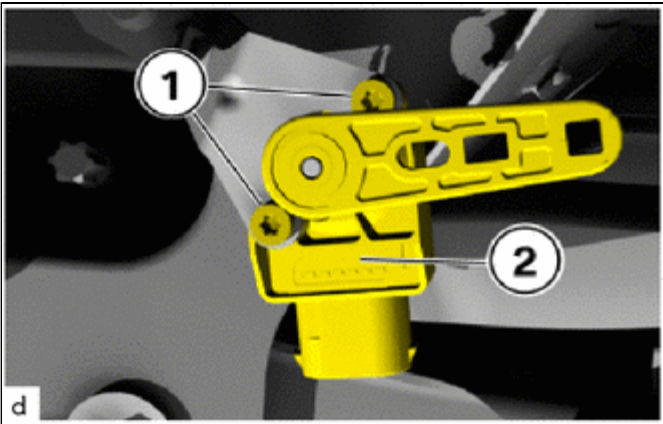
Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCL5
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HEIGHT CONTROL SENSOR: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

1. INSTALL REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY (for Rear Side)

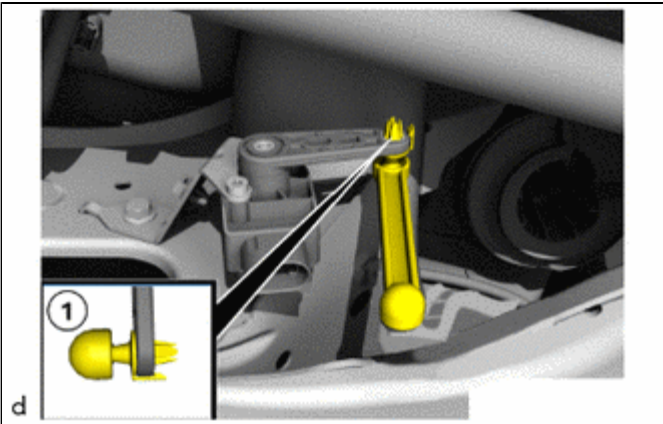
(a) Replace the bolts (1).



(b) Install the rear height control sensor sub-assembly (2) with the T20 screws (1).

Torque:
5.0 N·m { 51 kgf·cm, 44 in·lbf }

(c) Engage the clamp (1).



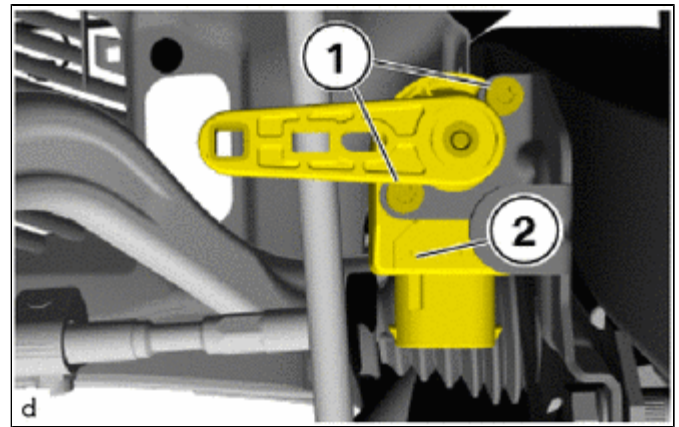
(d) Connect the connector.

2. INSTALL REAR SUSPENSION ARM COVER LH (for Rear Side)

Click here [INFO](#)

3. INSTALL FRONT HEIGHT CONTROL SENSOR SUB-ASSEMBLY (for Front Side)

(a) Replace the bolts (1).

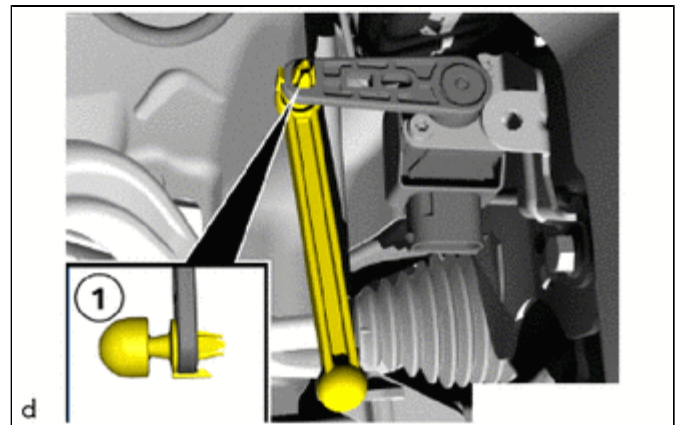


(b) Install the front height control sensor sub-assembly (2) with T20 screws (1).

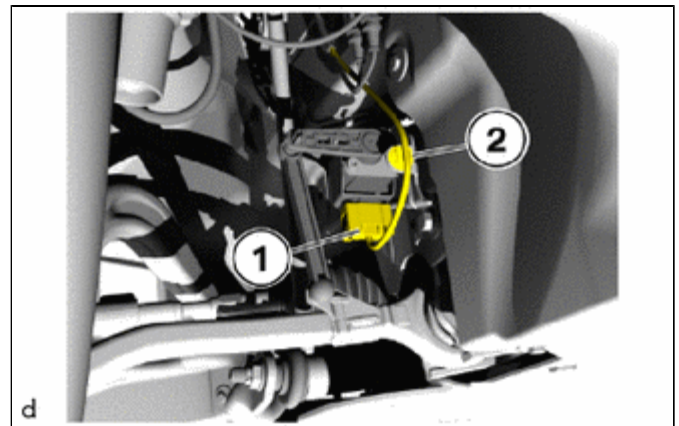
Torque:

5.0 N·m { 51 kgf·cm, 44 in·lbf }

(c) Engage the clamp (1).



(d) Connect the connector (1).



(e) Engage the clamp (2).

4. INSTALL FRONT WHEEL LH (for Front Side)

Click here [INFO](#)

5. ADJUST HEIGHT CONTROL SENSOR

(a) Connect the diagnosis system to the vehicle and enter the following menus:

Vehicle management / Service functions / Chassis / Vertical dynamics platform / Ride height adjustment / ABL Ride height sensors: Start-up

6. PERFORM INITIALIZATION

Click here [INFO](#)

7. ADJUST HEADLIGHT AIMING

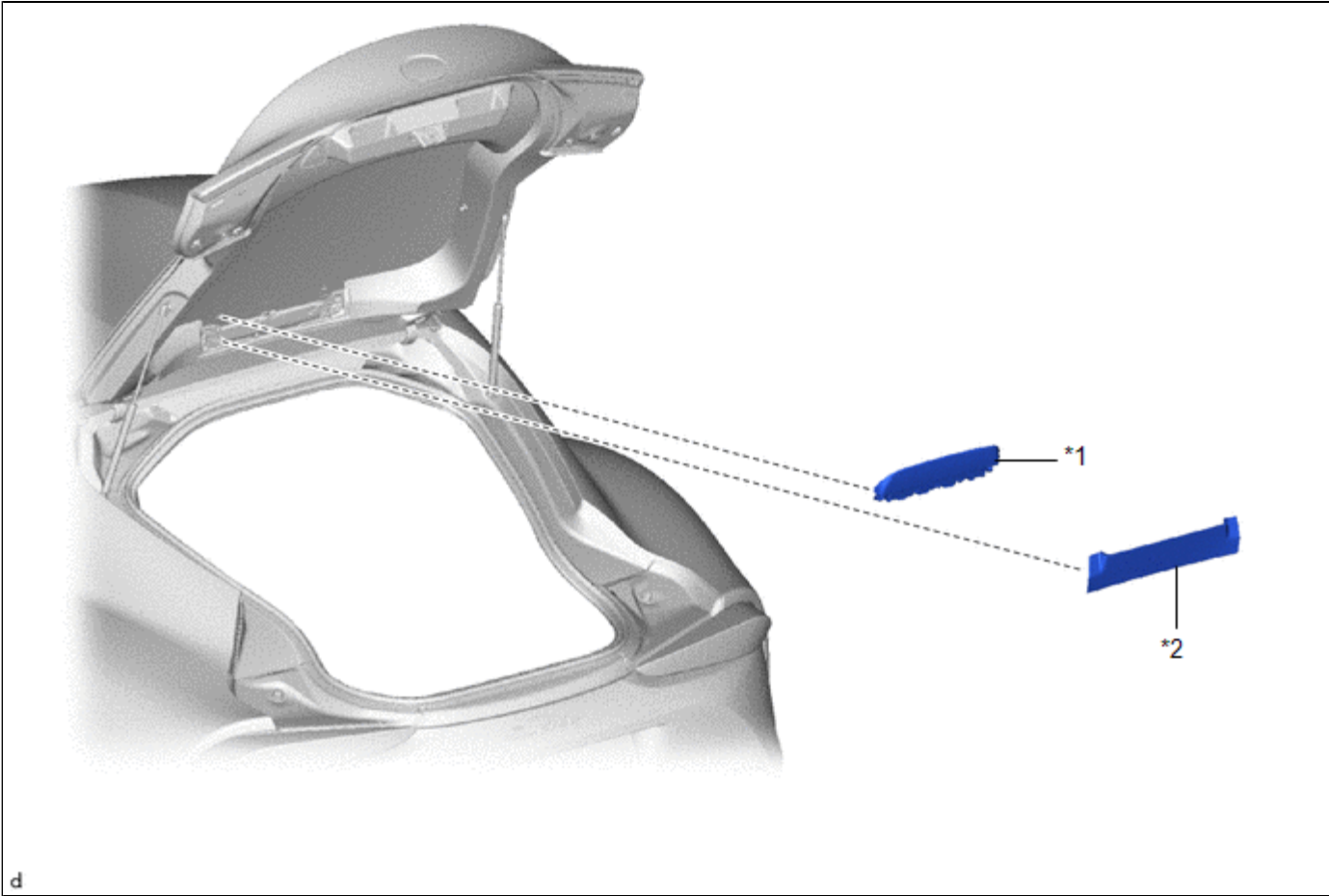
Click here [INFO](#)



Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKI
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HIGH MOUNTED STOP LIGHT ASSEMBLY: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	CENTER STOP LIGHT ASSEMBLY	*2	UPPER BACK DOOR TRIM
----	----------------------------	----	----------------------

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKJ
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HIGH MOUNTED STOP LIGHT ASSEMBLY: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

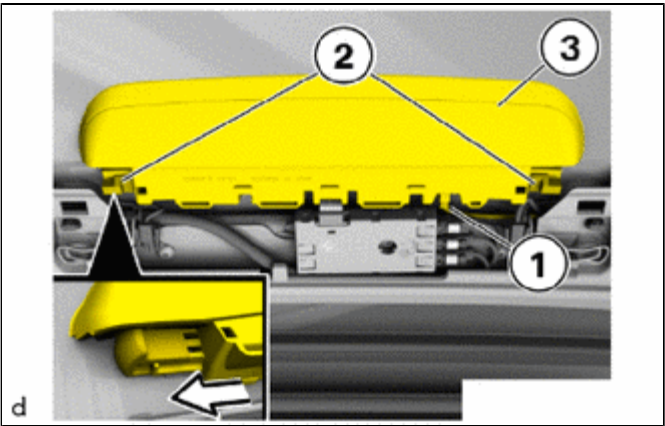
PROCEDURE

1. REMOVE UPPER BACK DOOR TRIM

Click here [INFO](#)

2. REMOVE CENTER STOP LIGHT ASSEMBLY

(a) Unlock both slides (2) outwards in the direction of the arrow and remove the center stop light assembly (3).



(b) Disconnect the connector (1).

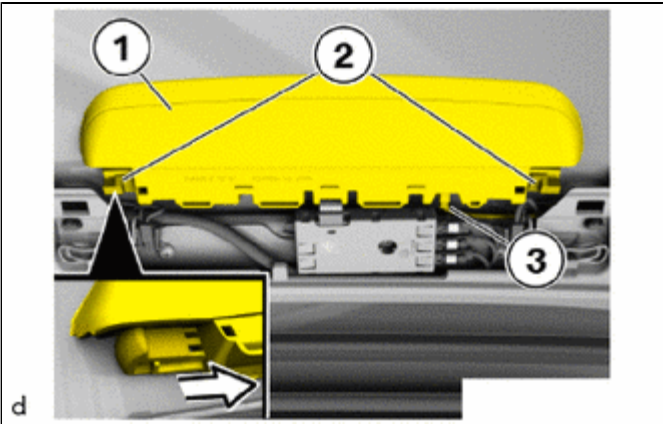
Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKK
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): HIGH MOUNTED STOP LIGHT ASSEMBLY: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

1. INSTALL CENTER STOP LIGHT ASSEMBLY

(a) Connect the connector (3).



(b) Install the center stop light assembly (1).

(c) Lock both slides (2) inwards in the direction of the arrow.

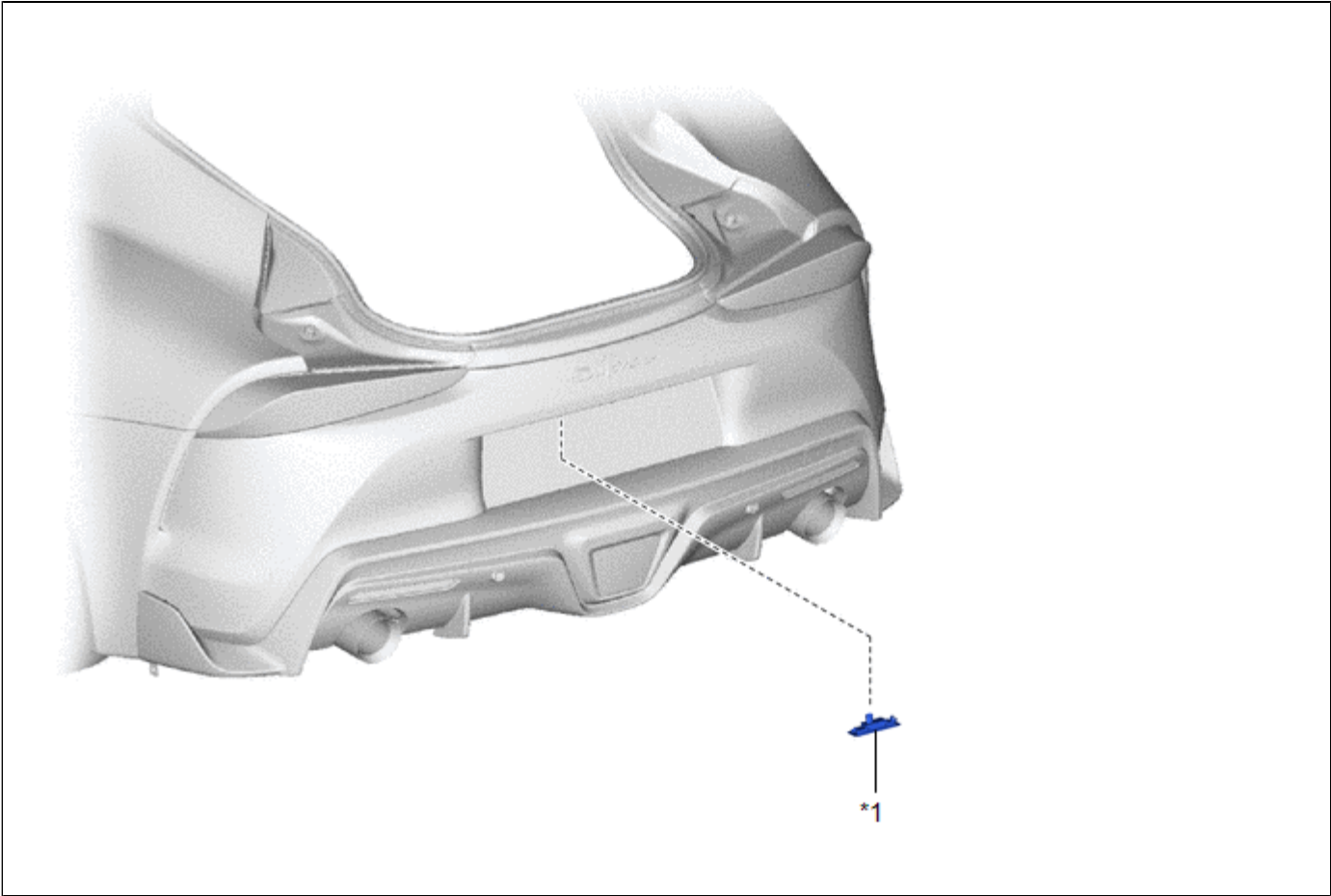
2. INSTALL UPPER BACK DOOR TRIM

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKF
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): LICENSE PLATE LIGHT ASSEMBLY: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	LICENSE PLATE LIGHT ASSEMBLY	-	-
----	------------------------------	---	---

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKG
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): LICENSE PLATE LIGHT ASSEMBLY: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

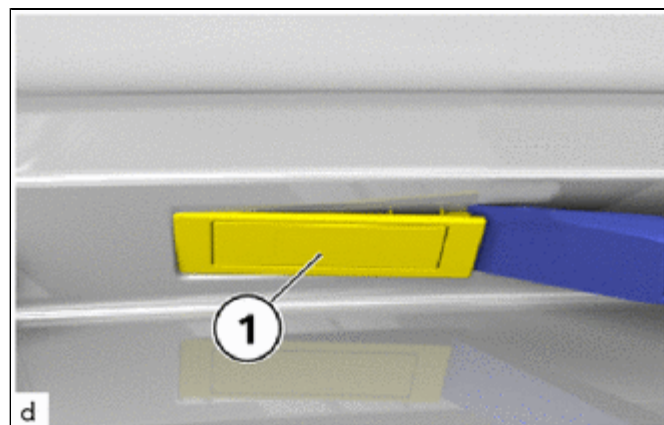
HINT:

- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

PROCEDURE

1. REMOVE LICENSE PLATE LIGHT ASSEMBLY

- (a) Using a moulding remover A, remove the license plate light assembly (1).



- (b) Disconnect the connector.

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKH
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): LICENSE PLATE LIGHT ASSEMBLY: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

CAUTION / NOTICE / HINT

HINT:

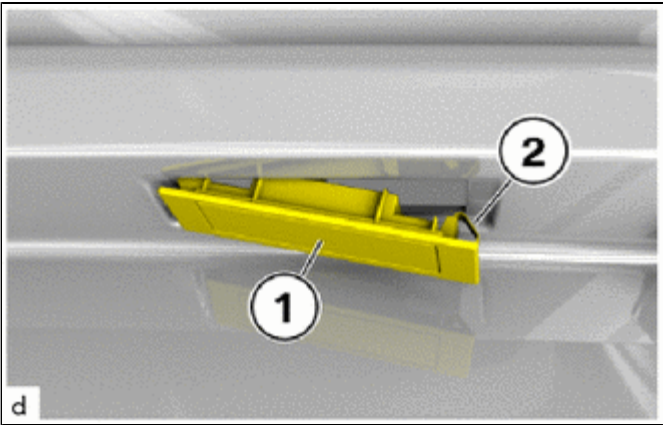
- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

PROCEDURE

1. INSTALL LICENSE PLATE LIGHT ASSEMBLY

(a) Connect the connector.

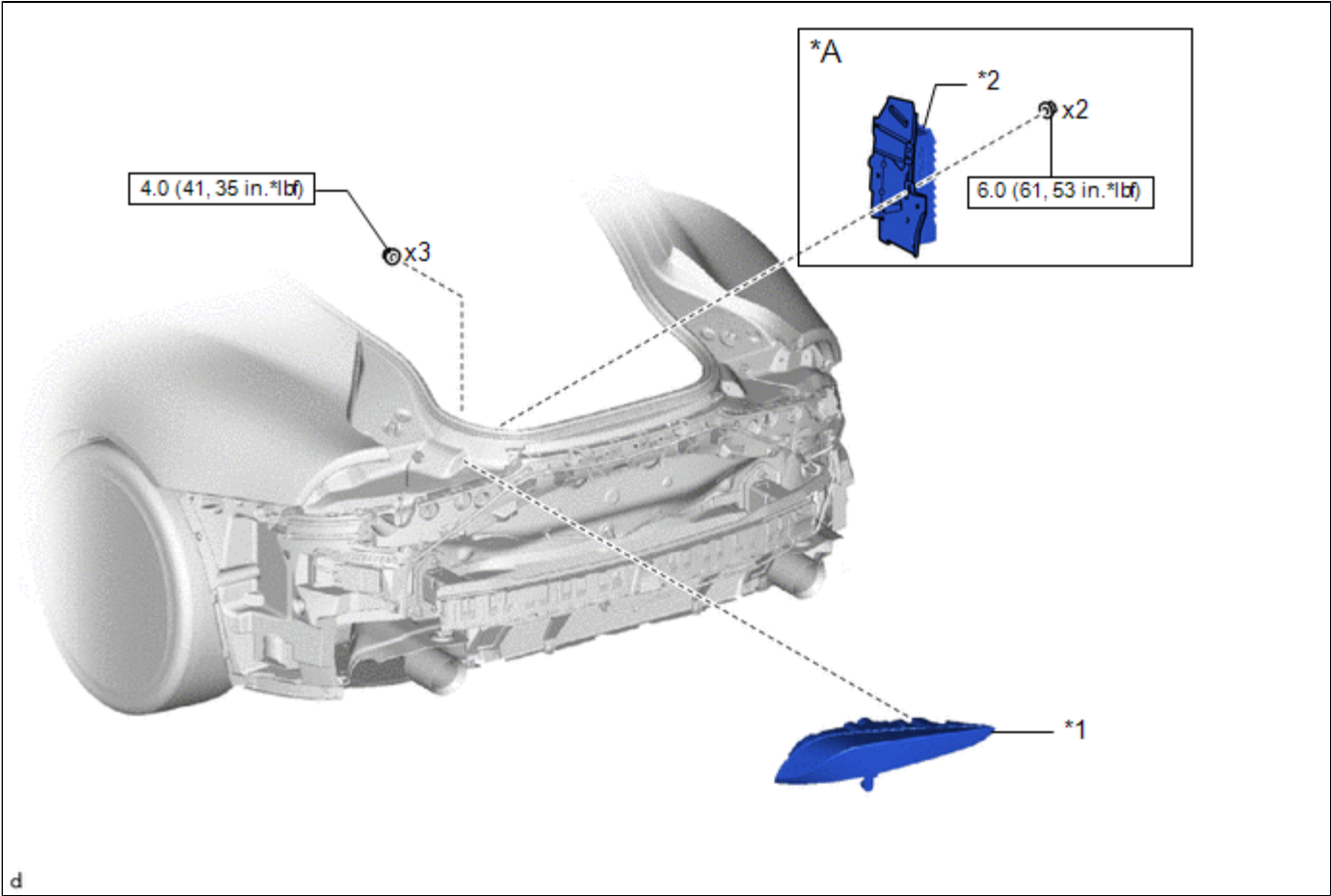
(b) Install the license plate light assembly (1) and clip it in with the claw (2).



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Title: LIGHTING (EXT): REAR COMBINATION LIGHT ASSEMBLY: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*A	w/ Stereo Component Amplifier	-	-
*1	REAR COMBINATION LIGHT ASSEMBLY	*2	STEREO COMPONENT AMPLIFIER ASSEMBLY WITH BRACKET
	N*m (kgf*cm, ft.*lbf): Specified torque	-	-

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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): REAR COMBINATION LIGHT ASSEMBLY: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

HINT:

- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

PROCEDURE

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

Click here [INFO](#)

2. REMOVE REAR BUMPER ASSEMBLY

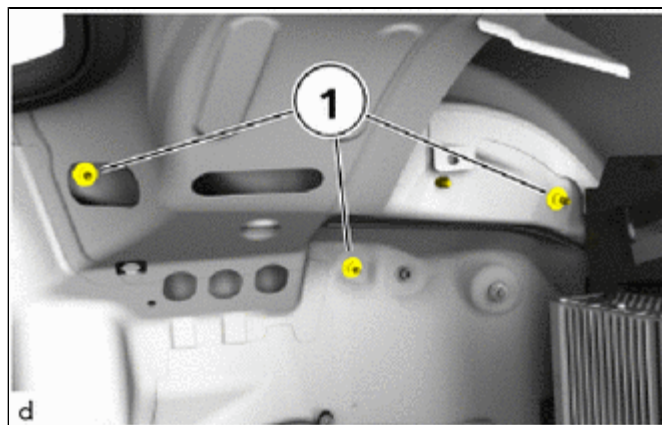
Click here [INFO](#)

3. REMOVE STEREO COMPONENT AMPLIFIER ASSEMBLY WITH BRACKET (w/ Stereo Component Amplifier)

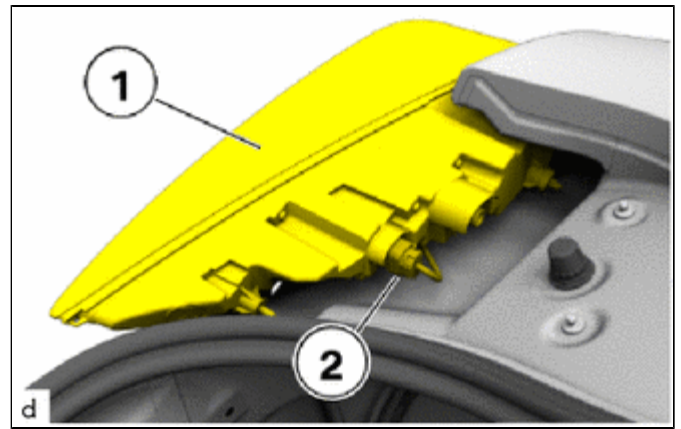
Click here [INFO](#)

4. REMOVE REAR COMBINATION LIGHT ASSEMBLY

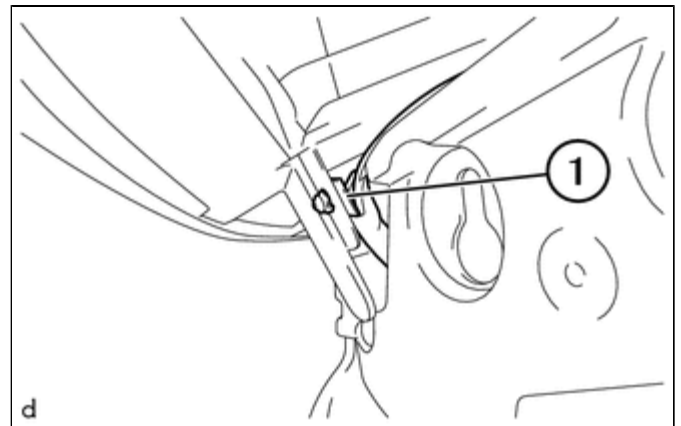
(a) Remove the nuts (1).



(b) Guide out the rear combination light assembly (1) towards the rear.



(c) Disconnect the connector (2) from the rear combination light assembly (1).



(d) Disengage the clamp (1) to remove the rear combination light assembly.

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Title: LIGHTING (EXT): REAR COMBINATION LIGHT ASSEMBLY: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

CAUTION / NOTICE / HINT

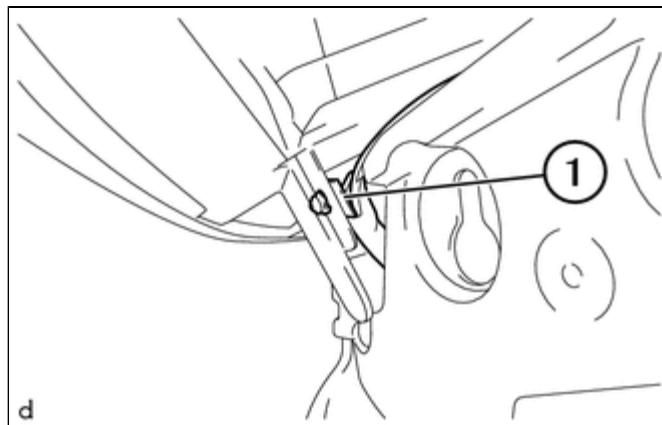
HINT:

- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

PROCEDURE

1. INSTALL REAR COMBINATION LIGHT ASSEMBLY

(a) Engage the clamp (1).



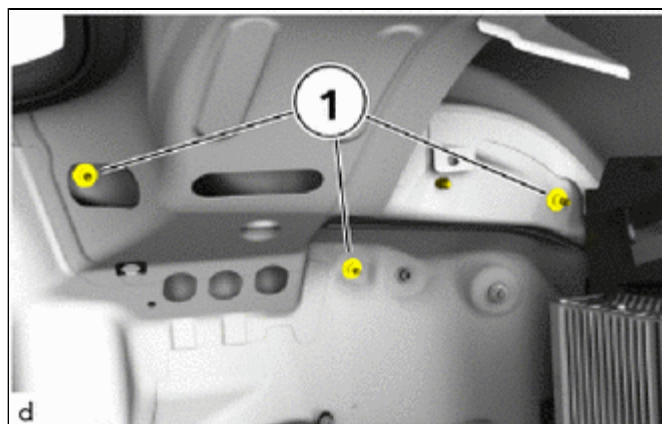
(b) Connect the connector.

(c) Set the rear combination light assembly.

(d) Install the nuts (1).

Torque:

4.0 N·m {41 kgf·cm, 35 in·lbf}



2. INSTALL STEREO COMPONENT AMPLIFIER ASSEMBLY WITH BRACKET (w/ Stereo Component Amplifier)

Click here [INFO](#)

3. INSTALL REAR BUMPER ASSEMBLY

Click here [INFO](#)

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

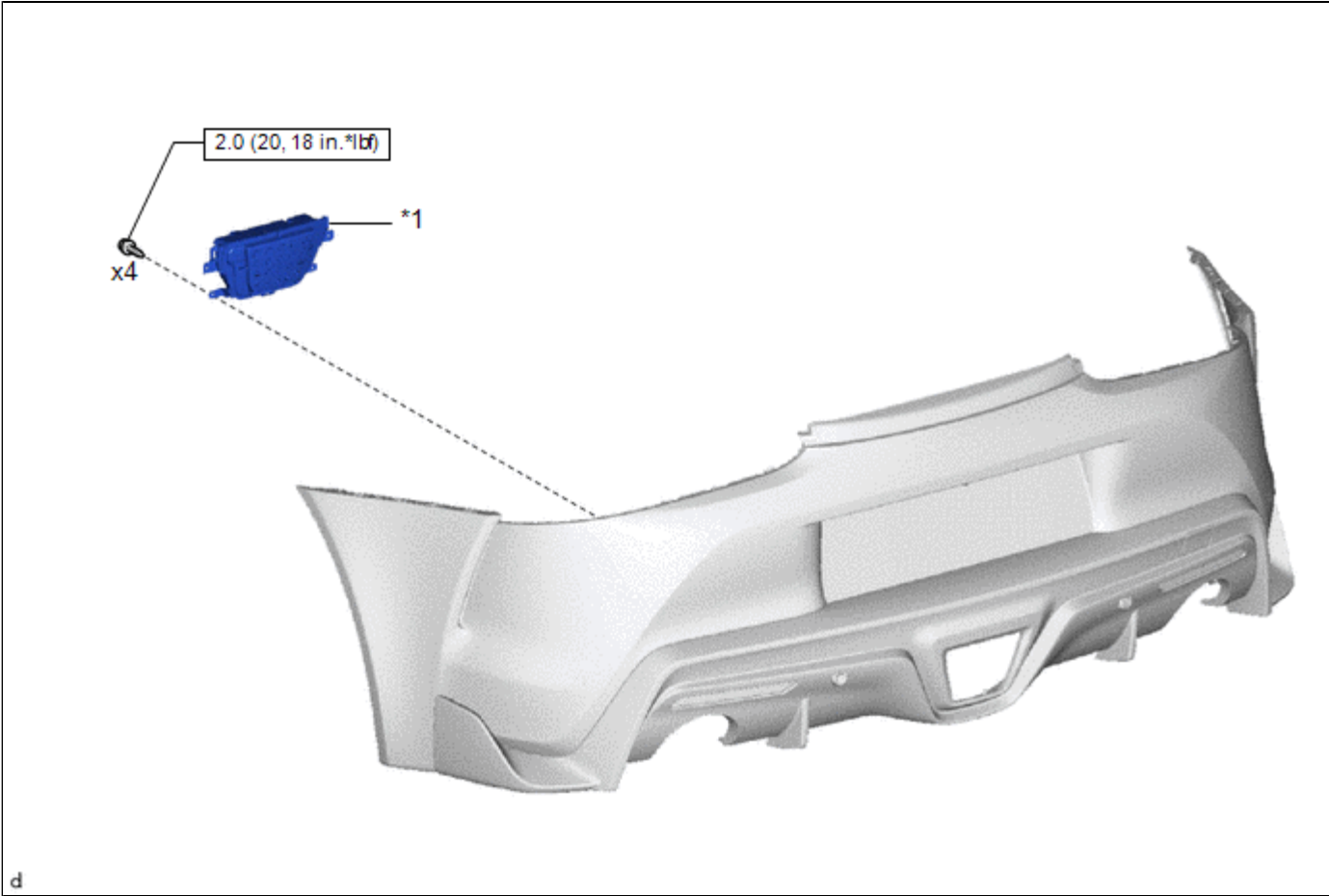
Click here [INFO](#)



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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): REAR LIGHT ASSEMBLY: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	BACK-UP LIGHT ASSEMBLY	-	-
	N*m (kgf*cm, ft.*lbf): Specified torque	-	-

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKM
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): REAR LIGHT ASSEMBLY: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

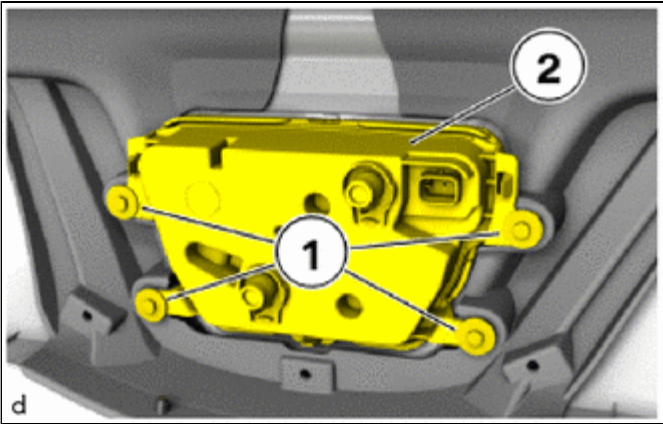
PROCEDURE

1. REMOVE REAR BUMPER ASSEMBLY

Click here [INFO](#)

2. REMOVE BACK-UP LIGHT ASSEMBLY

(a) Remove the screws (1) and back-up light assembly (2).



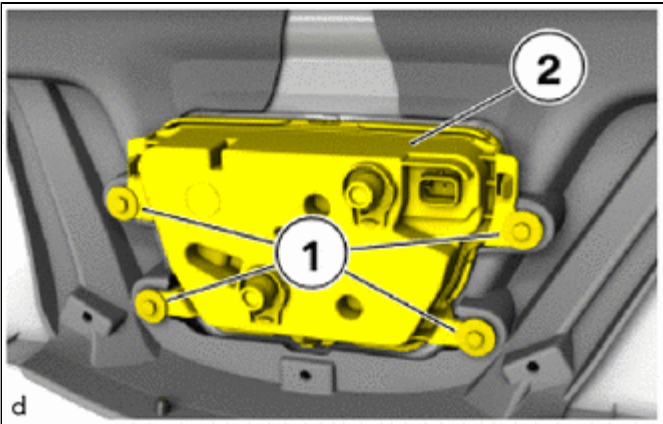
Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKN
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): REAR LIGHT ASSEMBLY: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

1. INSTALL BACK-UP LIGHT ASSEMBLY

(a) Install the back-up light assembly (2).



(b) Install the screws (1).

Torque:
2.0 N·m {20 kgf·cm, 18 in·lbf}

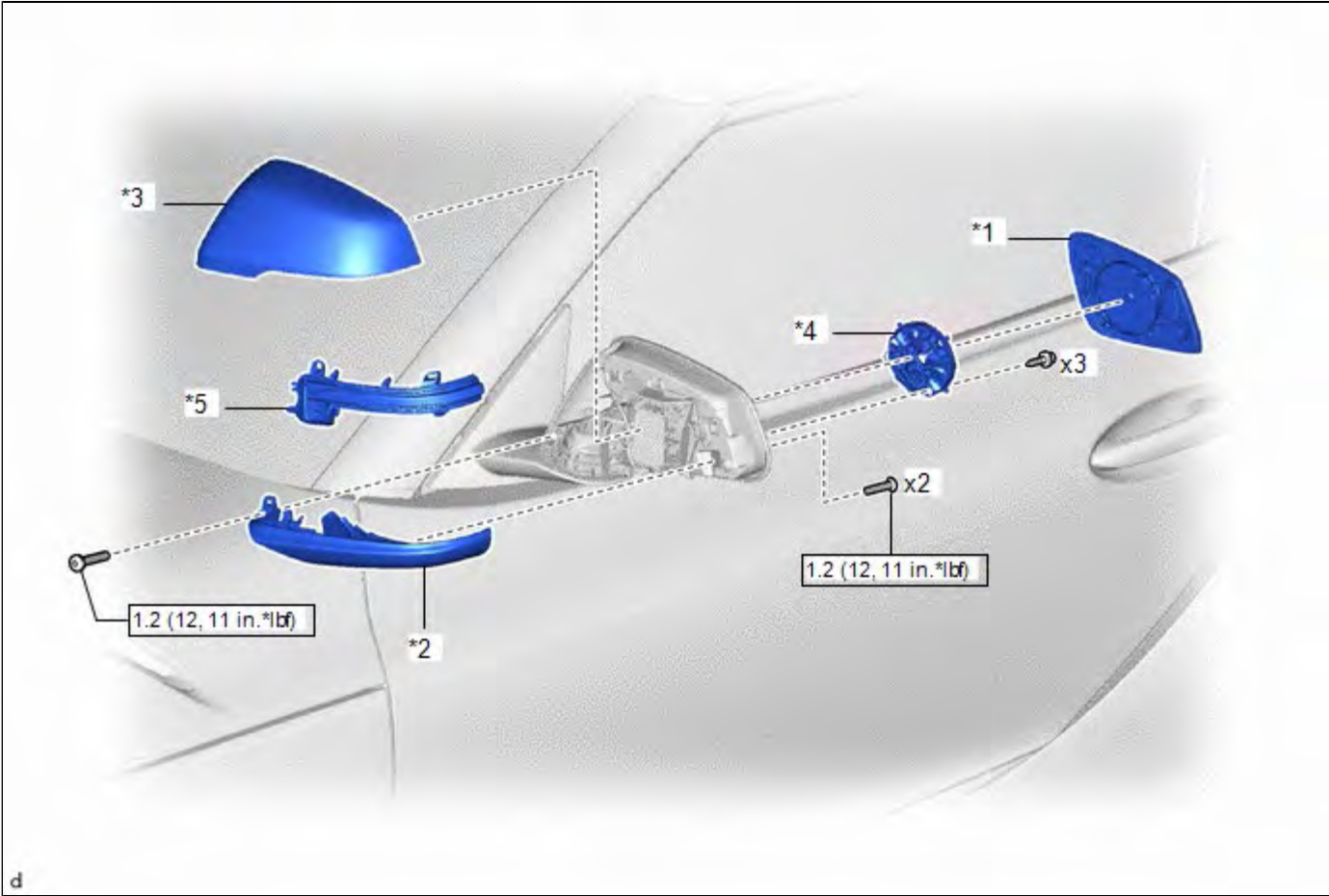
2. INSTALL REAR BUMPER ASSEMBLY

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCK9
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): SIDE TURN SIGNAL LIGHT ASSEMBLY: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	OUTER MIRROR	*2	NO. 2 OUTER MIRROR COVER
*3	OUTER MIRROR COVER	*4	OUTER MIRROR ACTUATOR ASSEMBLY
*5	SIDE TURN SIGNAL LIGHT ASSEMBLY	-	-
	N*m (kgf*cm, ft.*lbf): Specified torque	-	-

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKA
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): SIDE TURN SIGNAL LIGHT ASSEMBLY: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

HINT:

- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

PROCEDURE

1. REMOVE OUTER MIRROR

Click here [INFO](#)

2. REMOVE OUTER MIRROR COVER

Click here [INFO](#)

3. REMOVE OUTER MIRROR ACTUATOR ASSEMBLY

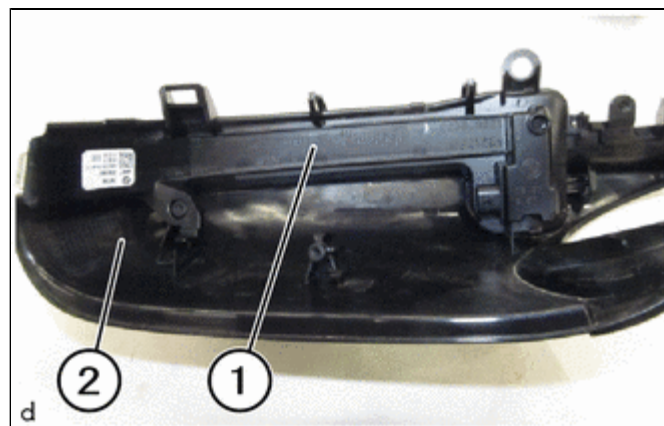
Click here [INFO](#)

4. REMOVE NO. 2 OUTER MIRROR COVER

Click here [INFO](#)

5. REMOVE SIDE TURN SIGNAL LIGHT ASSEMBLY

- (a) Remove the side turn signal light assembly (1) from the No. 2 outer mirror cover (2).



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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): SIDE TURN SIGNAL LIGHT ASSEMBLY: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

CAUTION / NOTICE / HINT

HINT:

- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

PROCEDURE

1. INSTALL SIDE TURN SIGNAL LIGHT ASSEMBLY

- Install the side turn signal light assembly on No. 2 outer mirror cover.

2. INSTALL NO. 2 OUTER MIRROR COVER

Click here [INFO](#)

3. INSTALL OUTER MIRROR ACTUATOR ASSEMBLY

Click here [INFO](#)

4. INSTALL OUTER MIRROR COVER

Click here [INFO](#)

5. INSTALL OUTER MIRROR

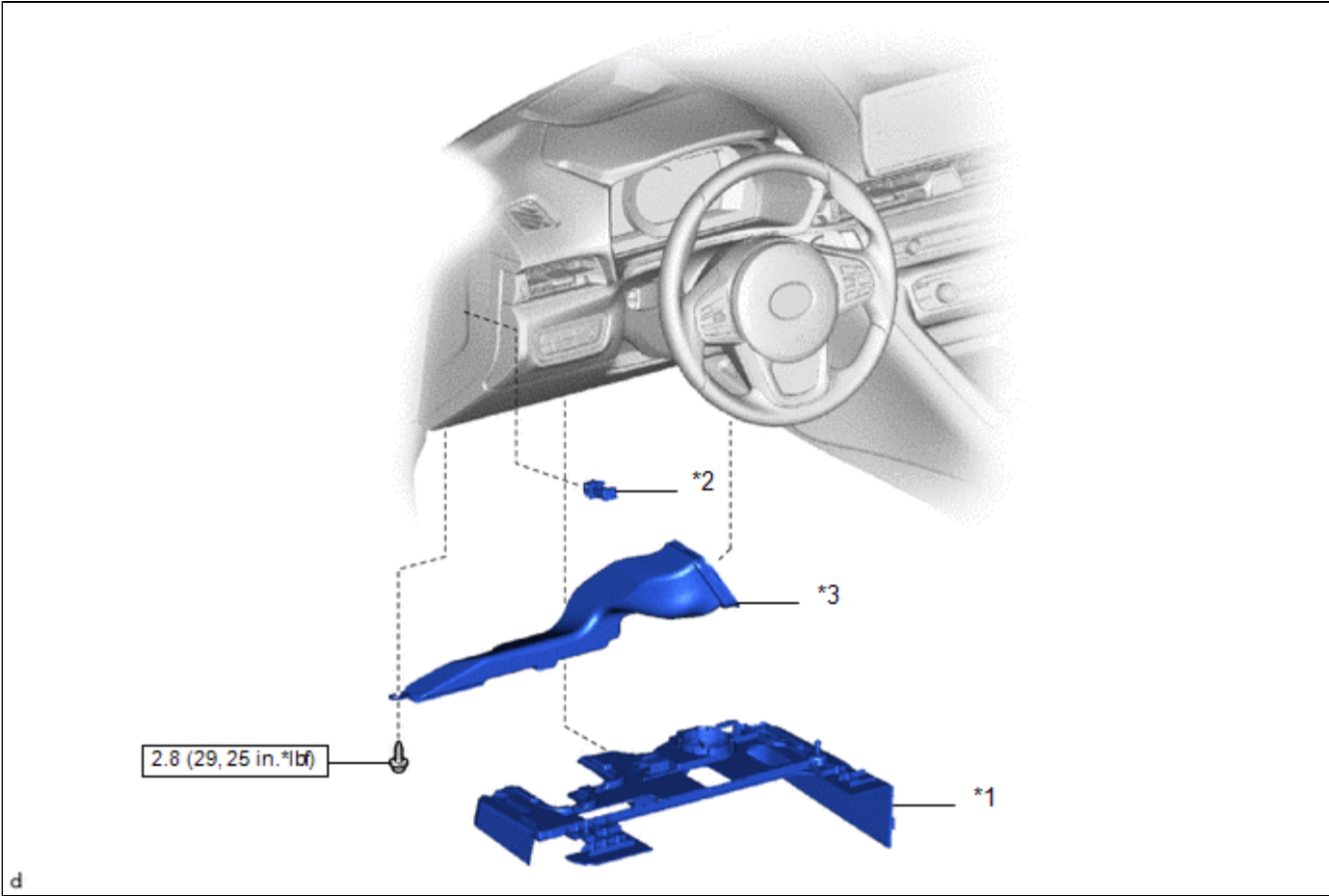
Click here [INFO](#)



Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKX
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): STOP LIGHT SWITCH: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY	*2	STOP LIGHT SWITCH ASSEMBLY
*3	NO. 1 AIR DUCT	-	-
	N*m (kgf*cm, ft.*lbf): Specified torque	-	-

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKY
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): STOP LIGHT SWITCH: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

PROCEDURE

1. REMOVE NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY

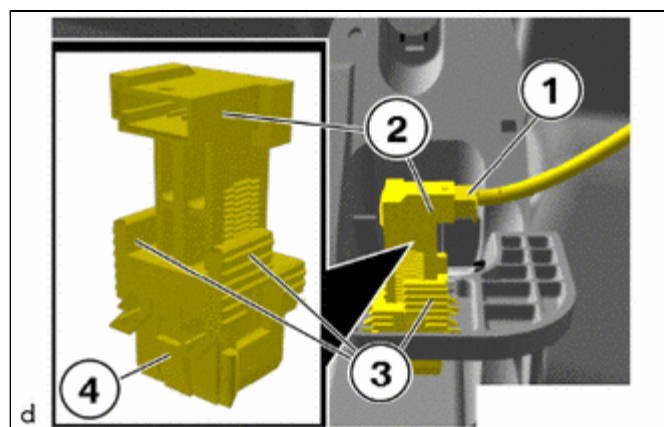
Click here [INFO](#)

2. REMOVE NO. 1 AIR DUCT

Click here [INFO](#)

3. REMOVE STOP LIGHT SWITCH ASSEMBLY

(a) Disconnect the connector (1).



(b) Operate and hold brake pedal.

(c) Pull the stop light switch assembly (2) out of the holder (3) for the stop light switch assembly.

(d) Press the claw (4) together and unclip the holder (3) for the stop light switch assembly from the brake pedal.

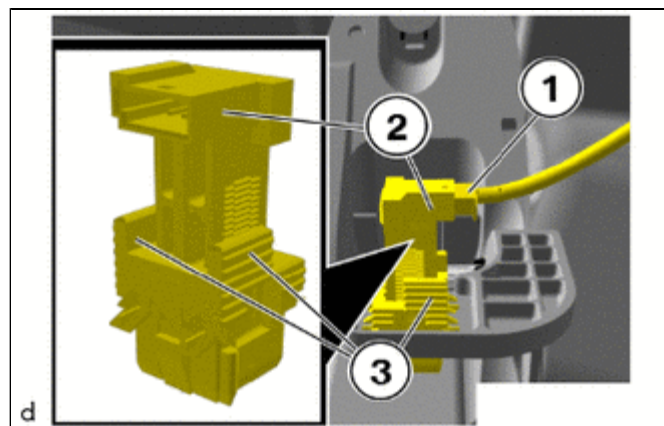
Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKZ
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): STOP LIGHT SWITCH: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

1. INSTALL STOP LIGHT SWITCH ASSEMBLY

- (a) Clip in the holder (3) of the stop light switch assembly into the brake pedal.



- (b) Press brake pedal.
- (c) Engage the stop light switch assembly (2) with the holder (3) of the stop light switch assembly up to the limit position.
- (d) Counter support the holder (3) of the stop light switch assembly and simultaneously relieve the brake pedal slowly and completely.

NOTICE:

The brake pedal is moved back to the stop.

- (e) Connect the connector (1).

2. INSTALL NO. 1 AIR DUCT

Click here [INFO](#)

3. INSTALL NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKR
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): SWITCH HOUSING: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	NO. 1 LIGHT CONTROL SWITCH ASSEMBLY	*2	INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY
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Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKS
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): SWITCH HOUSING: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

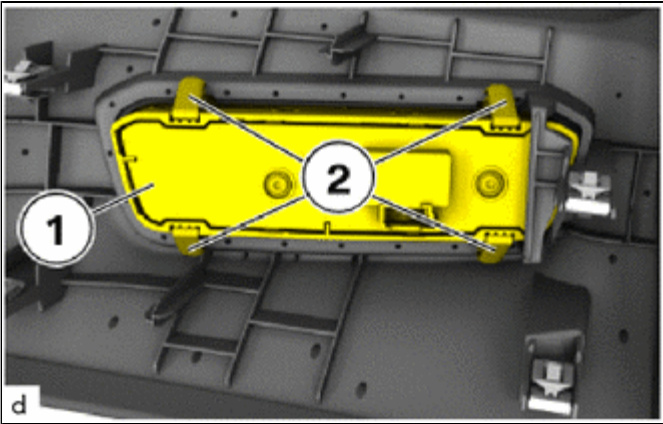
PROCEDURE

1. REMOVE INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY

Click here [INFO](#)

2. REMOVE NO. 1 LIGHT CONTROL SWITCH ASSEMBLY

(a) Disengage the claws (2) to remove the No. 1 light control switch assembly (1).



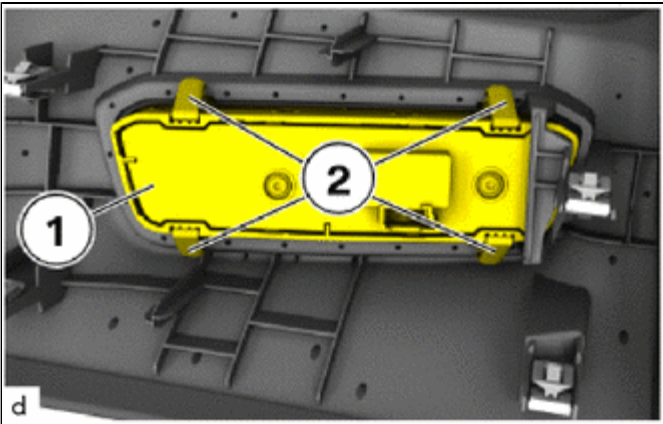
Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCKT
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: LIGHTING (EXT): SWITCH HOUSING: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

1. INSTALL NO. 1 LIGHT CONTROL SWITCH ASSEMBLY

(a) Engage the claws (2) to install the No. 1 light control switch assembly (1).



2. INSTALL INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY

Click here [INFO](#)