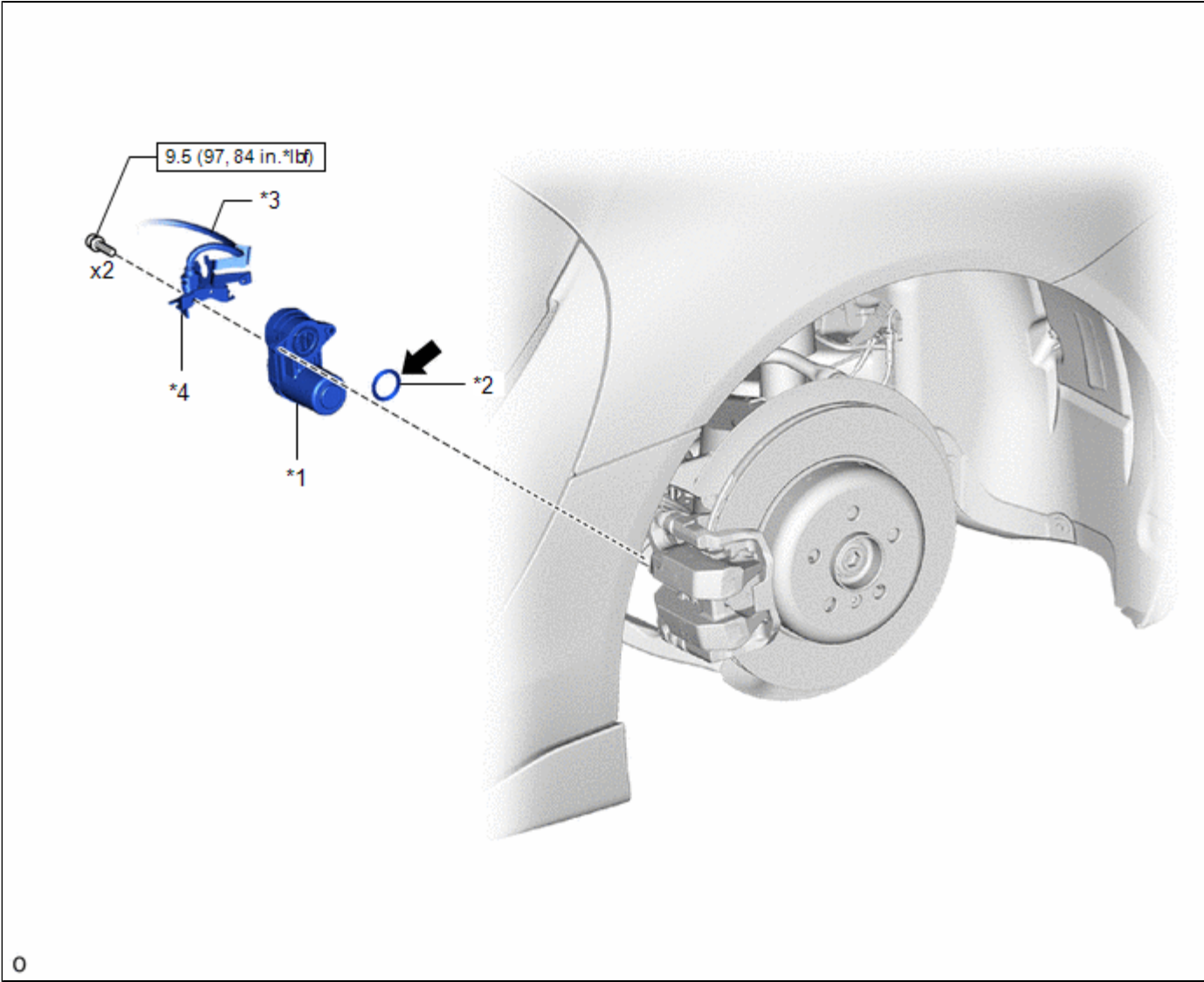


Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCAY
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: PARKING BRAKE: ELECTRIC PARKING BRAKE ACTUATOR: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	PARKING BRAKE ACTUATOR ASSEMBLY	*2	SEALING RING
*3	WIRE HARNESS	*4	HOLDER
	N*m (kgf*cm, ft.*lbf): Specified torque		Brake Fluid

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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: PARKING BRAKE: ELECTRIC PARKING BRAKE ACTUATOR: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

NOTICE:

- After completing repair work:
 - Use the parking brake button to open, close and open the parking brake again.

HINT:

- The following procedure is for the LH side.
- Use the same procedure for the RH side and LH side.

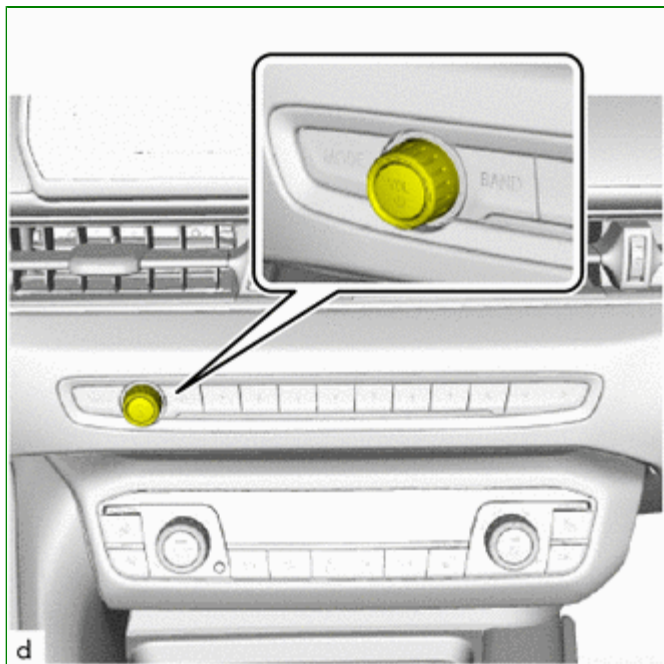
PROCEDURE

1. RELEASE PARKING BRAKE

- (a) Release parking brake.
- (b) Turn the START-STOP button (engine switch) off.

HINT:

- Pressing and holding the AUDIO button changes the power source mode to IG OFF.

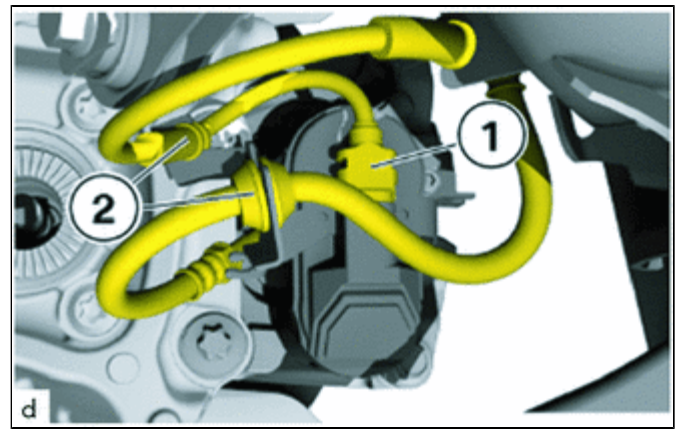


- The START-STOP button (engine switch) off must be switched off for at least 30 seconds before the plug connection is disconnected.

- (c) Disconnect plug connection.

2. REMOVE PARKING BRAKE ACTUATOR ASSEMBLY

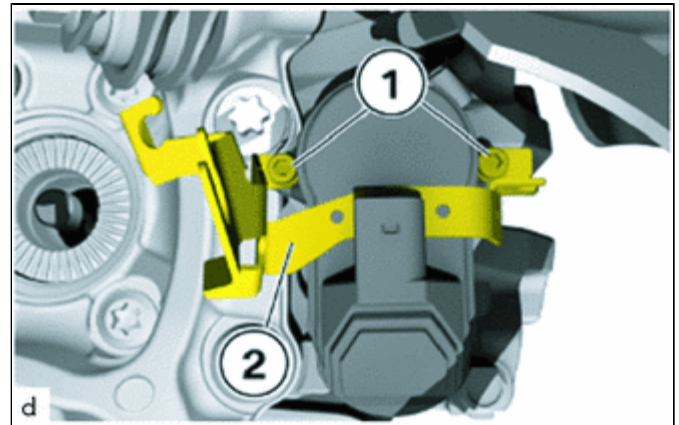
(a) Unlock plug connection (1) and disconnect.



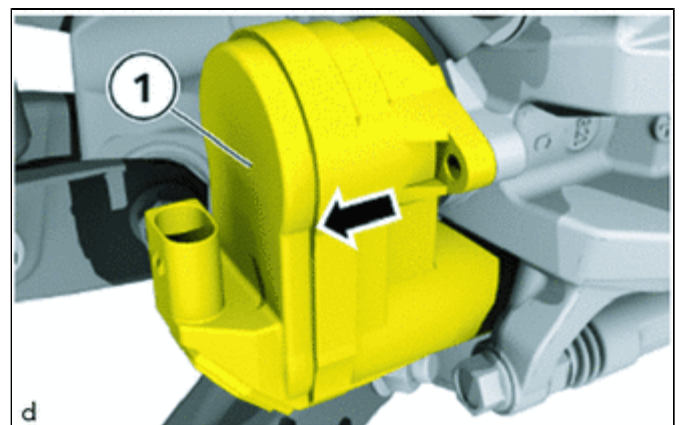
(b) Detach the rear flexible hose from the holder (2).

(c) Detach the cable from the holder (2).

(d) Release the 5 mm hexagon bolts (1) and remove the holder (2).



(e) Remove the parking brake actuator assembly (1) in the direction of the arrow.



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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: PARKING BRAKE: ELECTRIC PARKING BRAKE ACTUATOR: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

CAUTION / NOTICE / HINT

HINT:

- Use the same procedure for the RH side and LH side.
- The following procedure is for the LH side.

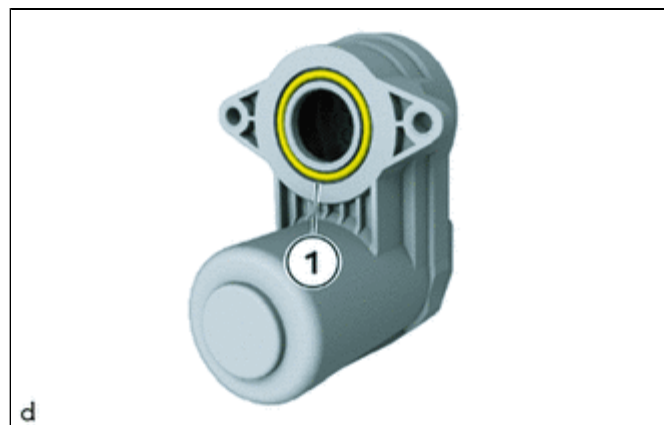
PROCEDURE

1. INSTALL PARKING BRAKE ACTUATOR ASSEMBLY

(a) Lightly coat the sealing ring (1) with brake fluid.

HINT:

- When reusing the parking brake actuator assembly:
 - Check the sealing ring (1) for damage and replace where required.



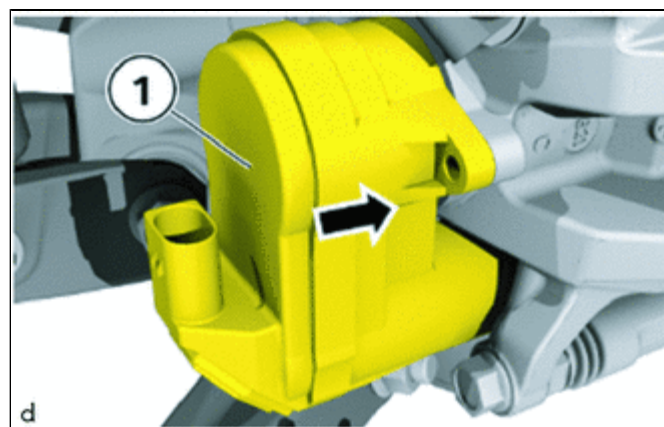
(b) Carefully position the parking brake actuator assembly (1).

NOTICE:

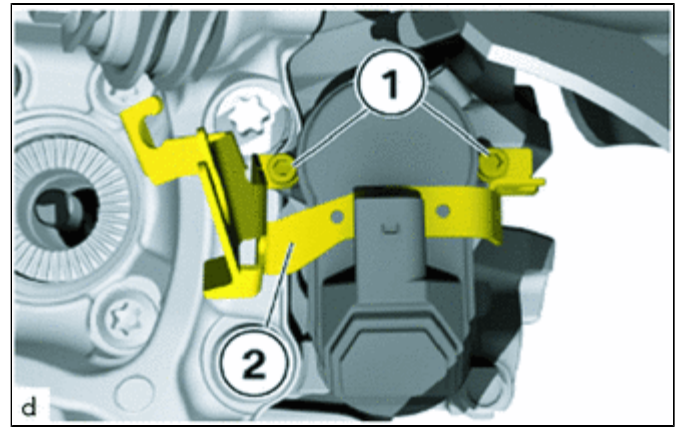
- The gearing must engage.
- Make sure that the parking brake actuator assembly rests flush against the rear disc brake cylinder assembly.

HINT:

If necessary, turn the parking brake actuator assembly slightly until the bore hole and the screw thread are aligned.



(c) Position holder (2).



(d) Tighten the 5 mm hexagon bolts (1).

Torque:

9.5 N·m { 97 kgf·cm, 84 in·lbf }

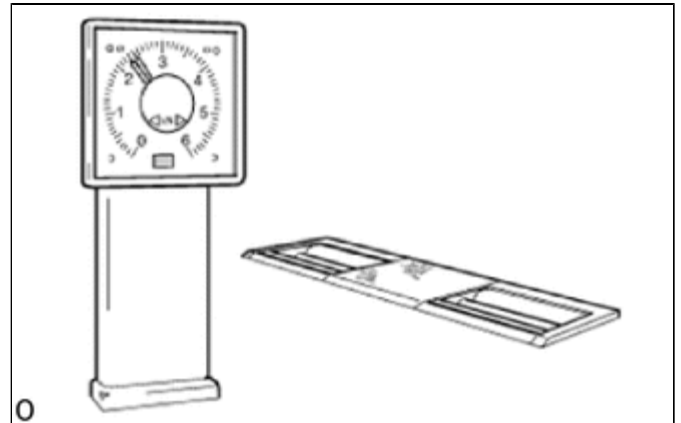
(e) Connect connectors and lock.

(f) Attach the rear flexible hose in the holder.

(g) Attach the cable in the holder.

2. CARRY OUT A BRAKE TEST OF THE PARKING BRAKE ON THE BRAKE TEST STAND

(a) Position the vehicle with its rear axle on the brake test stand.



(b) Position the selector lever in selector lever position N (neutral).

(c) Run engine at idle speed.

(1) The brake test stand starts automatically.

(2) The control unit runs a plausibility check (comparison of wheel speed) to identify within a few seconds that a vehicle is on the brake test stand and changes to brake test stand mode.

(3) If brake test stand mode has been activated and the EMF actuators are open, the indicator light for the electromechanical parking brake (EMF) flashes slowly.

(d) Press the parking brake button (1) to apply the brake pads.

- (1) When brake test stand mode is active and the EMF actuators have been partly applied, the indicator light for the electromechanical parking brake (EMF) flashes quickly.



(e) Press the parking brake button (1) for the brake test with test force 1.

(f) Press the parking brake button (1) for the brake test with test force 2.

(g) Press the parking brake button (1) for the brake test with test force 3.

(h) Read the maximum brake forces on the left and right.

(i) Release the parking brake button (1).

- (1) This releases the parking brake.

(j) Move the vehicle from the brake test stand.

- (1) Brake test stand mode is automatically quit upon driving off the brake test stand.

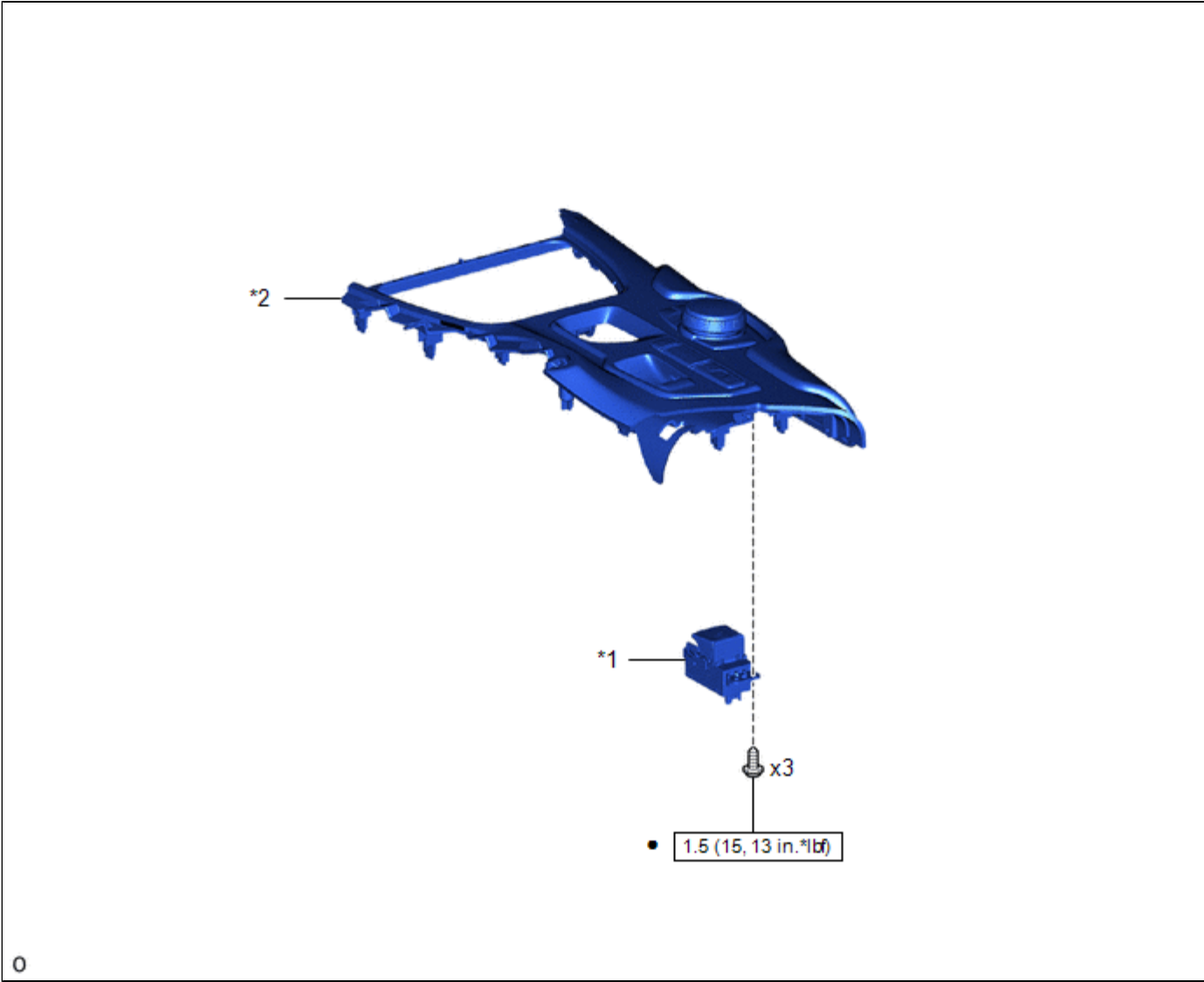
(k) After having completed the brake tests: Perform terminal change.

- (1) All indicator lights go out after having completed the terminal change.

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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: PARKING BRAKE: ELECTRIC PARKING BRAKE SWITCH: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	ELECTRIC PARKING BRAKE SWITCH ASSEMBLY	*2	UPPER CONSOLE PANEL SUB-ASSEMBLY
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCB2
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: PARKING BRAKE: ELECTRIC PARKING BRAKE SWITCH: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

CAUTION:

- 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](#)

HINT:

- Use the same procedure for RHD and LHD vehicles.
- The following procedure is for LHD vehicles.

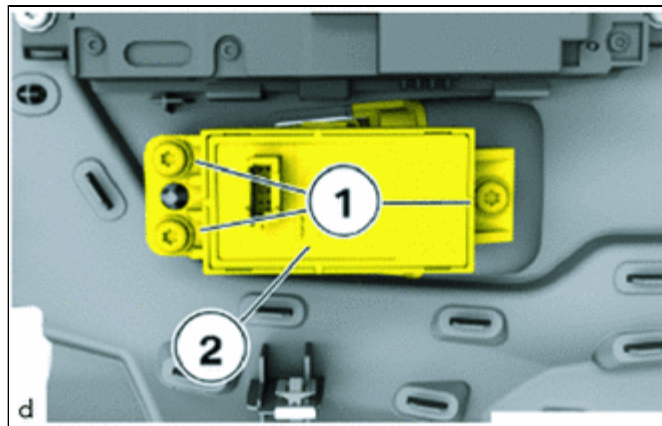
PROCEDURE

1. REMOVE UPPER CONSOLE PANEL SUB-ASSEMBLY

Click here [INFO](#)

2. REMOVE ELECTRIC PARKING BRAKE SWITCH ASSEMBLY

(a) Loosen T20 screws (1).



(b) Remove electric parking brake switch assembly (2).

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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: PARKING BRAKE: ELECTRIC PARKING BRAKE SWITCH: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

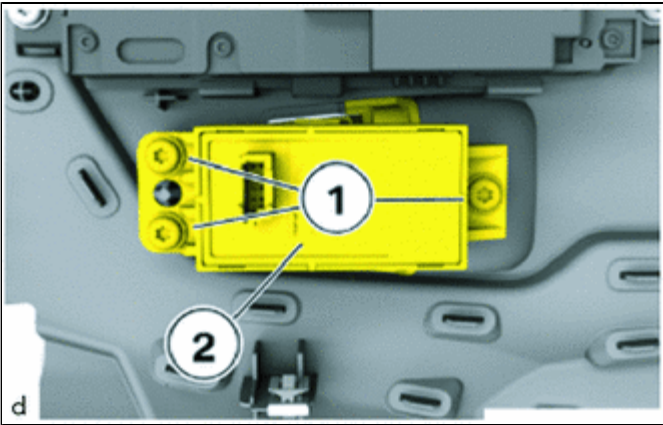
CAUTION / NOTICE / HINT

- HINT:**
- Use the same procedure for RHD and LHD vehicles.
 - The following procedure is for LHD vehicles.

PROCEDURE

1. INSTALL ELECTRIC PARKING BRAKE SWITCH ASSEMBLY

(a) Position electric parking brake switch assembly (2).



- (b) Replace T20 screws (1).
- (c) Tighten the T20 screws (1).

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

2. INSTALL UPPER CONSOLE PANEL SUB-ASSEMBLY

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCAX
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: PARKING BRAKE: FORCED RELEASE: OPERATION METHOD; 2020 MY Supra [03/2019 -]		

OPERATION METHOD

CAUTION / NOTICE / HINT

PROCEDURE

1. PARKING BRAKE FORCED RELEASE

CAUTION:

Work on a level surface to ensure safety.

NOTICE:

- When moving the vehicle after releasing the parking brake, install all parts except the connector.
- A manual emergency release is possible via the spindle drives of the brake calipers. The actuator needs to be disassembled first. Following an emergency release, the electromechanical parking brake must be initialised.

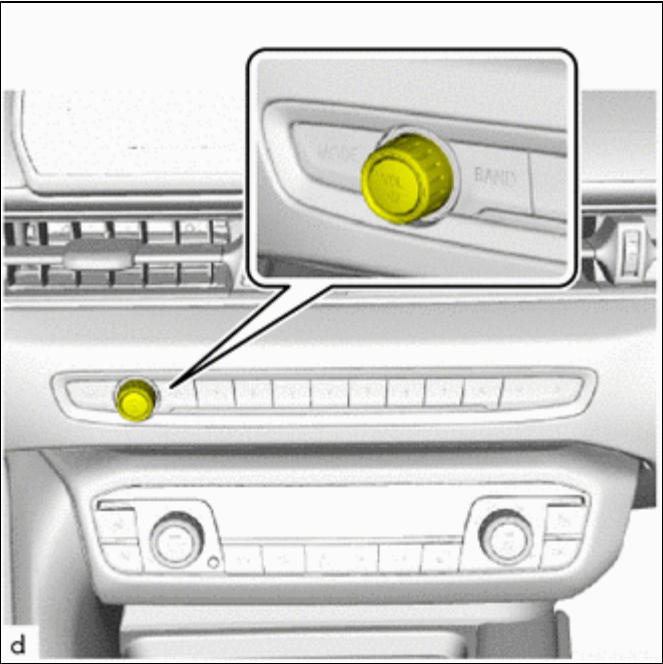
HINT:

- Use the same procedure for the RH side and LH side.
- The following procedure is for the LH side.

- Park the vehicle on a level surface and check that the shift lever is in P.
- Turn the START-STOP button (engine switch) off and check that the wheels are chocked.

HINT:

Pressing and holding the AUDIO button changes the power source mode to IG OFF.



- Remove the rear wheel.

Click here [INFO](#)

CAUTION:

When using a jack to lift the vehicle, make sure to support the vehicle using safety stands. Do not work on the vehicle

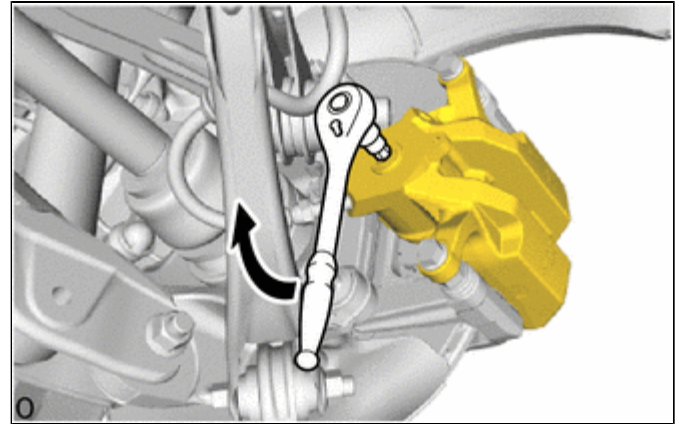
with it supported only by a jack.

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

(d) Remove the parking brake actuator assembly.

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

(e) Insert a 5 mm socket hexagon wrench into the rear disc brake cylinder assembly.



(f) Turn the 5 mm socket hexagon wrench rotations clockwise to release the parking brake lock.

NOTICE:

When moving the vehicle after releasing the parking brake, install all parts except the connector.

2. PERFORM INITIALIZATION

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

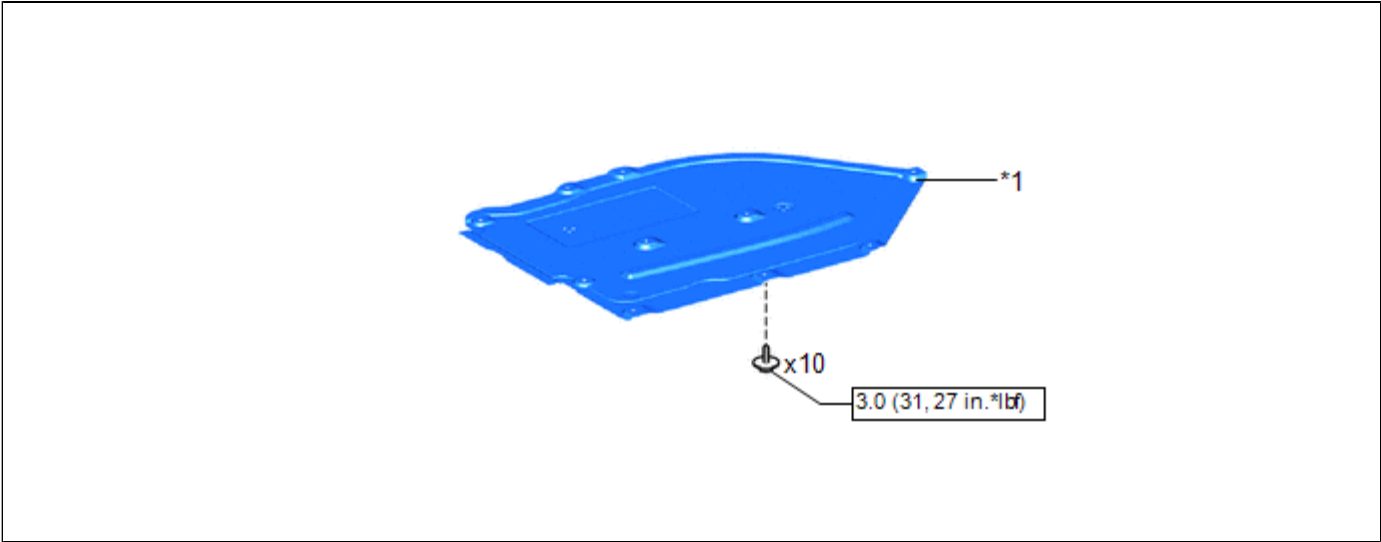
Vehicle management / Service functions / Chassis / Parking brake / Start-up / Commissioning, parking brake



Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCGJ
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: 8HP51 (AUTOMATIC TRANSMISSION / TRANSAXLE): ACCUMULATOR ASSEMBLY: COMPONENTS; 2020 MY Supra [03/2019 -]		

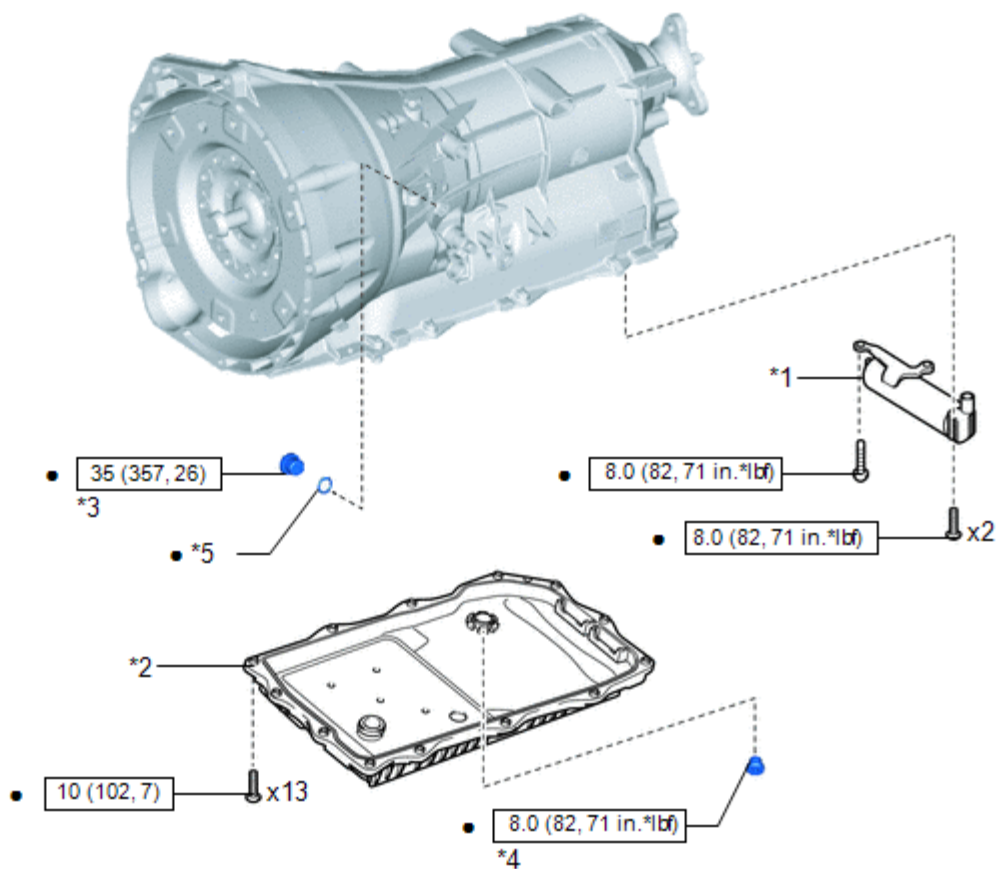
COMPONENTS

ILLUSTRATION



*1	FRONT FLOOR COVER	-	-
	N*m (kgf*cm, ft.*lbf): Specified torque	-	-

ILLUSTRATION



*1	HYDRAULIC IMPULSE STORAGE	*2	TRANSMISSION OIL SUMP
*3	FILLER PLUG	*4	OIL DRAIN PLUG
*5	SEALING RING	-	-
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part

