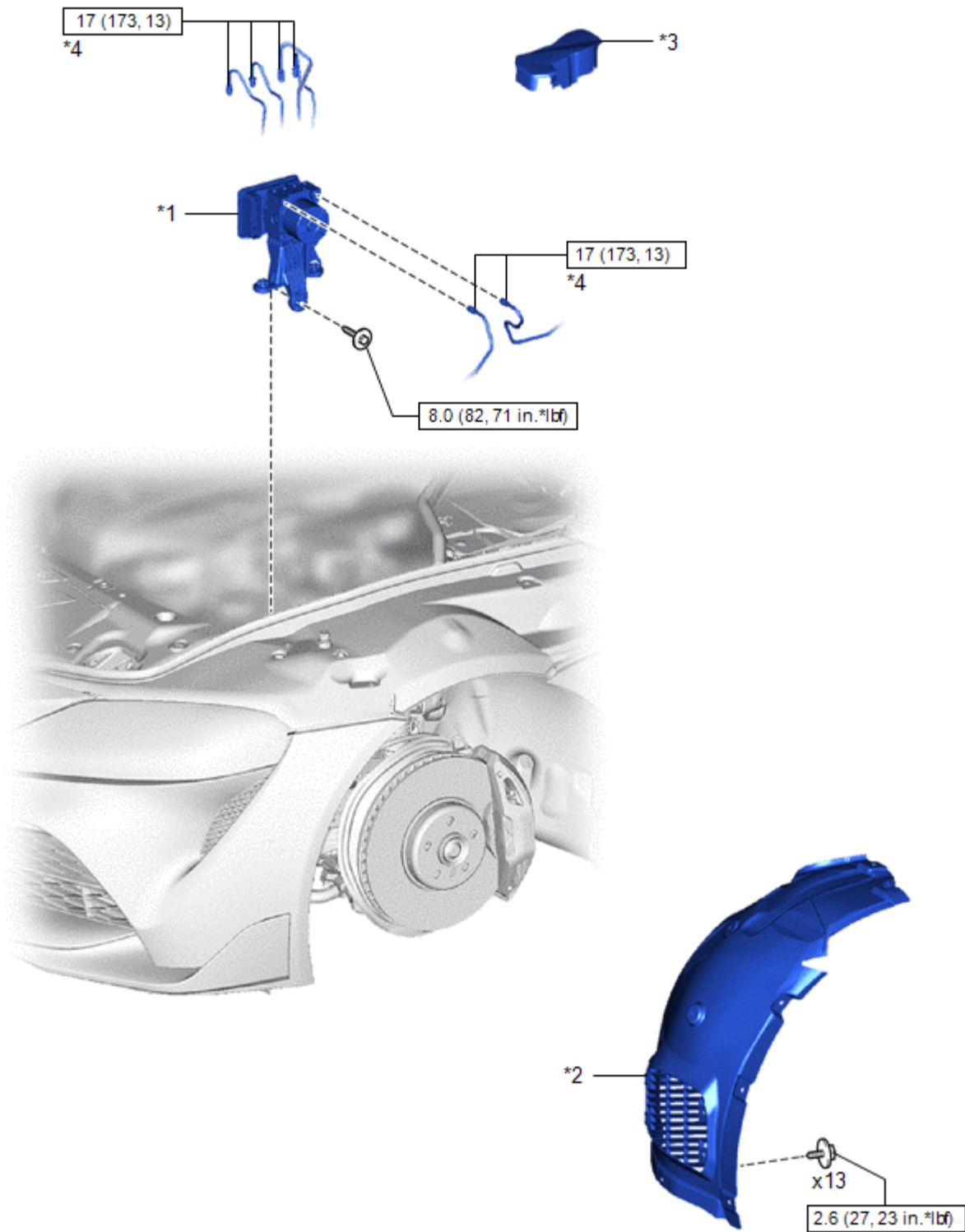


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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: BRAKE ACTUATOR: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION

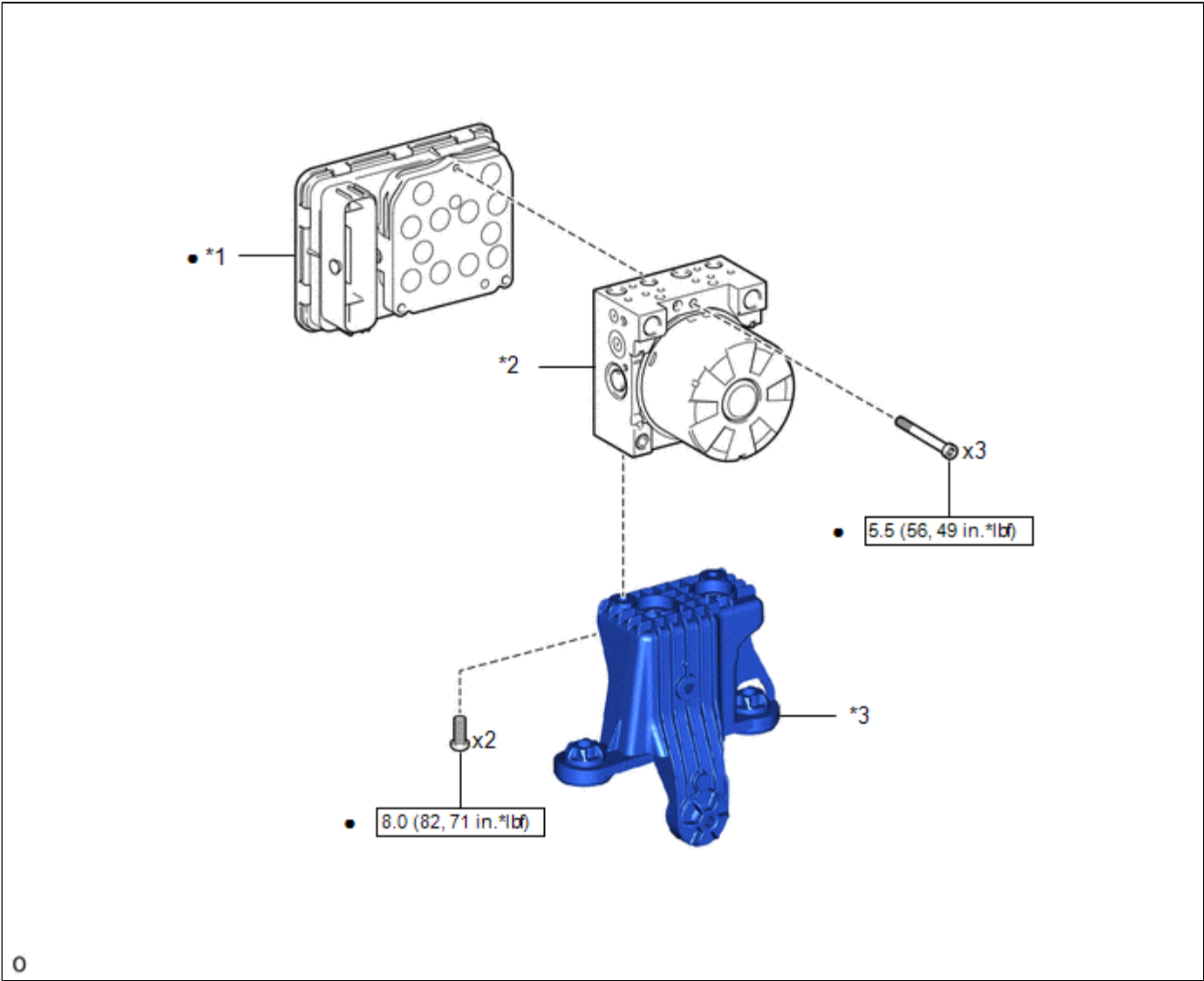


0

*1	BRAKE ACTUATOR WITH BRACKET	*2	FRONT FENDER LINER LH
*3	ENGINE ROOM ECU COVER	*4	BRAKE LINE
N*m (kgf*cm, ft.*lbf): Specified			

	torque	-	-
---	--------	---	---

ILLUSTRATION



*1	SKID CONTROL ECU ASSEMBLY	*2	BRAKE ACTUATOR ASSEMBLY
*3	BRAKE ACTUATOR BRACKET ASSEMBLY	-	-
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part

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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: BRAKE ACTUATOR: 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](#)

HINT:

- Do not interchange brake lines. If necessary, mark the brake lines before disassembly.
- Note various equipment specifications with different line seizure.
- Do not bend brake lines.
- Close off connecting bores with seal plugs.

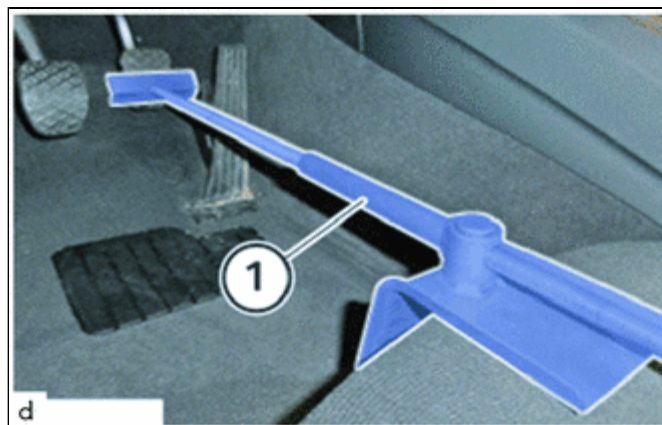
PROCEDURE

1. INSTALL BRAKE PEDAL PRESSURE

- (a) Press the brake pedal to the floor and fix the brake pedal pressure (1).

HINT:

Do not release the brake pedal pressure (1) until the brake lines have been reconnected. This prevents brake fluid from emerging from the expansion tank when the brake lines are opened.



2. REMOVE FRONT WHEEL

Click here [INFO](#)

3. REMOVE FRONT FENDER LINER LH

Click here [INFO](#)

4. REMOVE RADIATOR RESERVE TANK ASSEMBLY

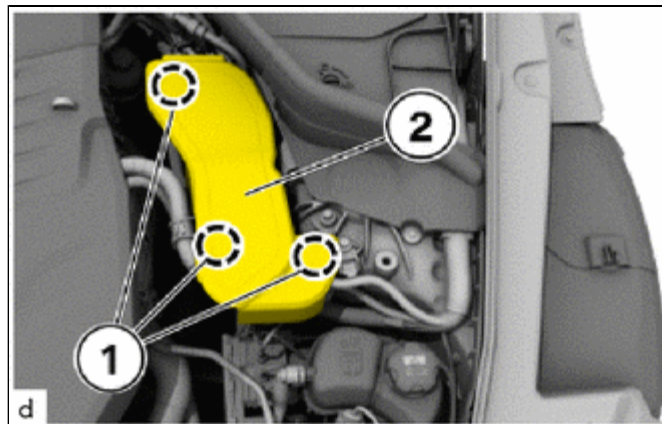
Click here [INFO](#)

5. REMOVE RADIATOR RESERVE TANK SUB-ASSEMBLY

Click here [INFO](#)

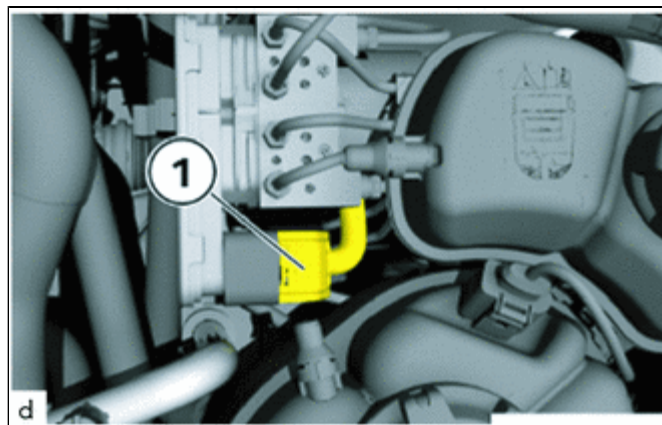
6. REMOVE BRAKE ACTUATOR WITH BRACKET

(a) Release snap-lock couplings (1).



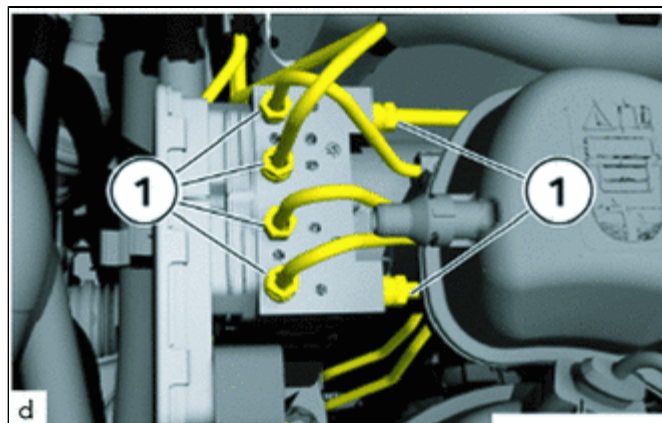
(b) Feed the engine room ECU cover (2) out toward the top and remove.

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

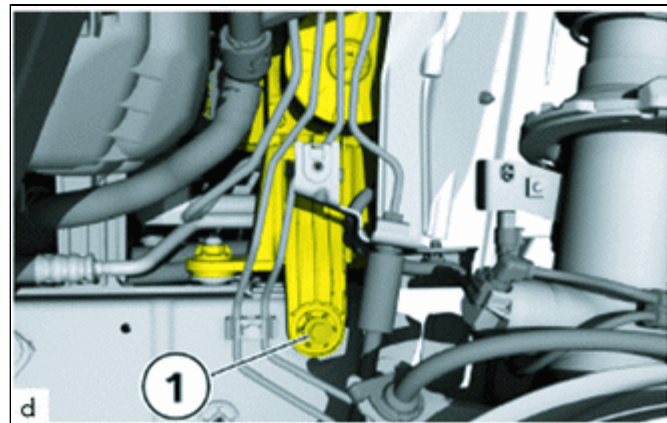


(d) Unfasten 11 mm and 12 mm union nuts of the brake lines (1).

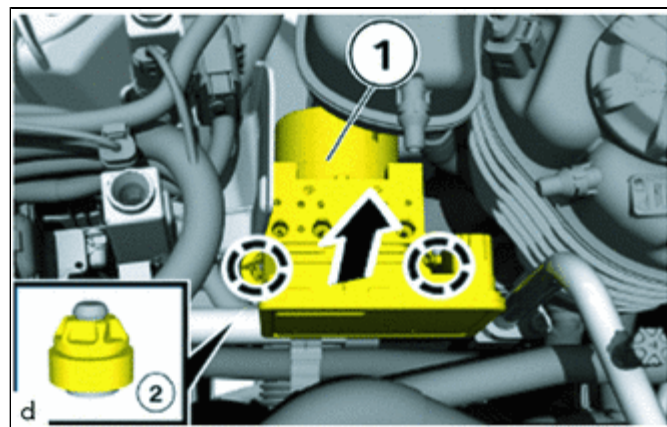
SST: 09700-WA070



(e) Unfasten bolt (1).

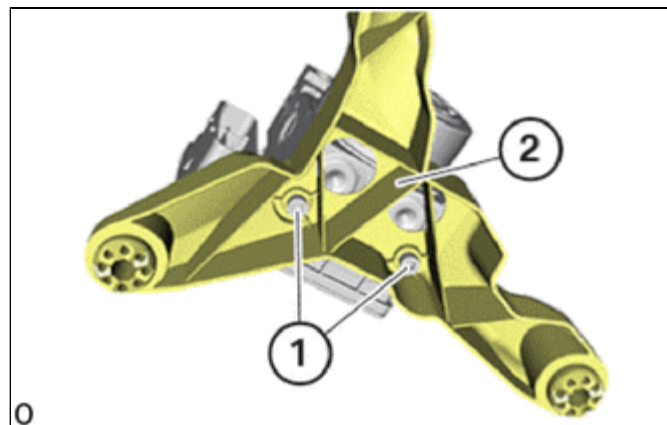


(f) Guide the brake actuator with bracket (1) upwards out of the holders (2).

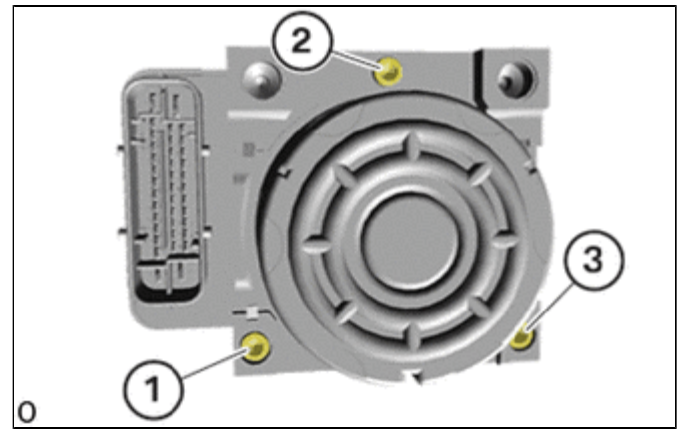


7. REMOVE SKID CONTROL ECU ASSEMBLY

(a) Loosen T25 screws (1) and remove brake actuator bracket assembly (2) for skid control ECU assembly.



(b) Loosen T25 bolts (1) to (3).



(c) Remove skid control ECU assembly from the brake actuator assembly carefully.



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Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: BRAKE ACTUATOR: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

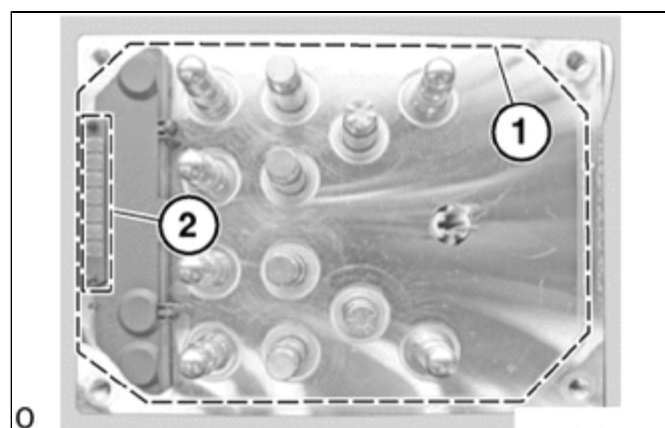
PROCEDURE

1. INSTALL SKID CONTROL ECU ASSEMBLY

NOTICE:

- Do not clean the sealing surface with compressed air, chemical solvents or sharp-edged objects.
- Do not touch or clean the pressure sensor contacts with your fingers.

(a) Clean the sealing surface (1) if necessary, with a lint-free cloth.

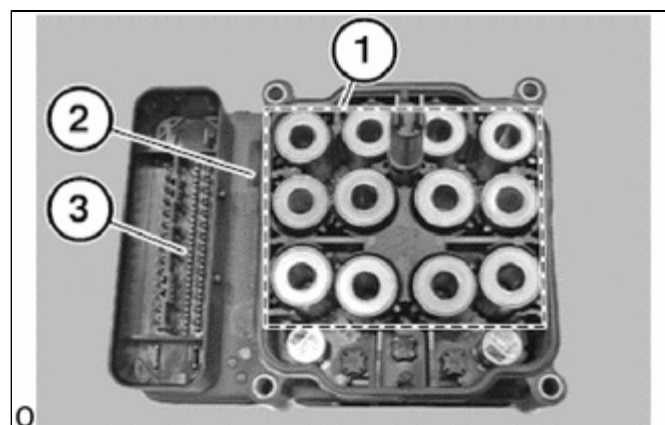


(b) Ensure that the contacts (2) are not damaged.

(c) For renewed use of the brake actuator assembly, an add-on skid control ECU assembly repair kit is required.

HINT:

The repair kit contains a new silicone seal (1) and bolts.

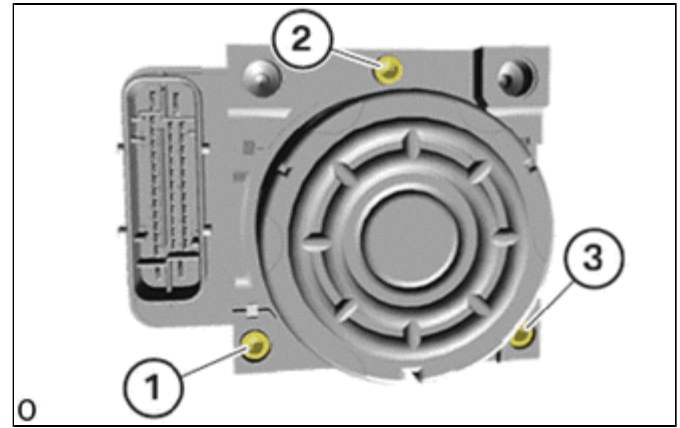


(d) Make sure that the valve coils (2) are not damaged.

NOTICE:

- Do not clean, readjust or touch the valve coils with your fingers.
- If damaged, replace the skid cntrol ECU assembly (3).

(e) Connect skid control ECU assembly carefully to brake actuator assembly.



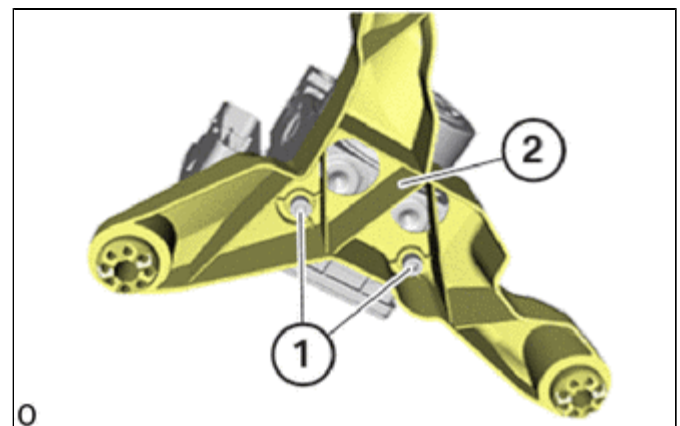
(f) Replace T25 bolts (1) to (3).

(g) Tighten T25 bolts (1) to (3) in this order in stages.

Torque:

5.5 N·m {56 kgf·cm, 49 in·lbf}

(h) Install brake actuator bracket assembly (2).



(i) Replace T25 screws (1).

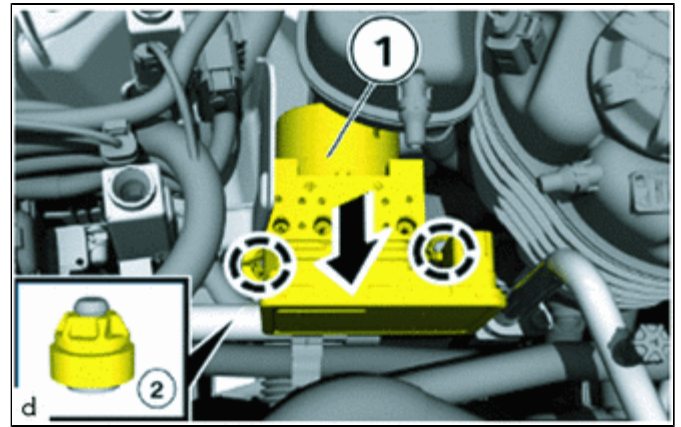
(j) Insert T25 screws (1) and tighten.

Torque:

8.0 N·m {82 kgf·cm, 71 in·lbf}

2. INSTALL BRAKE ACTUATOR WITH BRACKET

(a) Insert the brake actuator with bracket (1) into the bracket (2) towards the bottom.



(b) Tighten bolt.

Torque:

8.0 N·m { 82 kgf·cm, 71 in·lbf }

(c) Tighten the 11 mm and 12 mm union nuts of the brake lines.

SST: 09700-WA070

Torque:

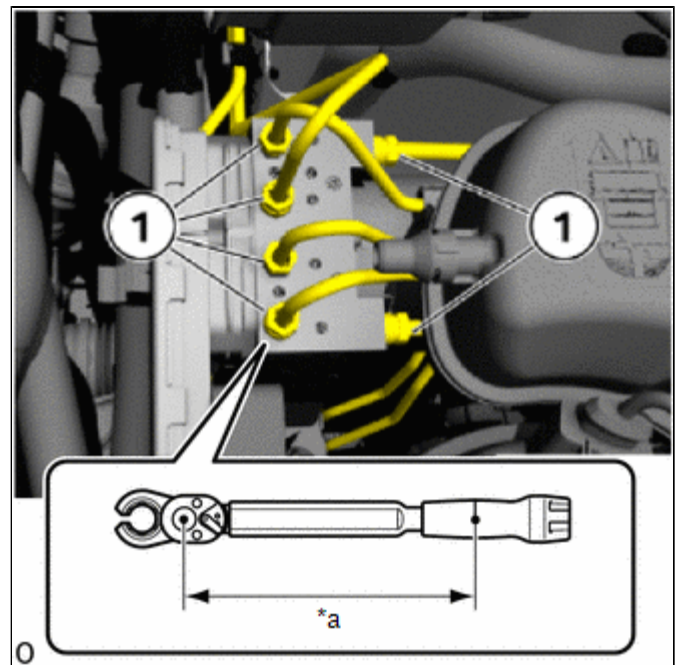
Specified tightening torque :

17 N·m { 173 kgf·cm, 13 ft·lbf }

HINT:

Calculate the torque wrench reading when changing the fulcrum length of the torque wrench.

Click here [INFO](#)



*a

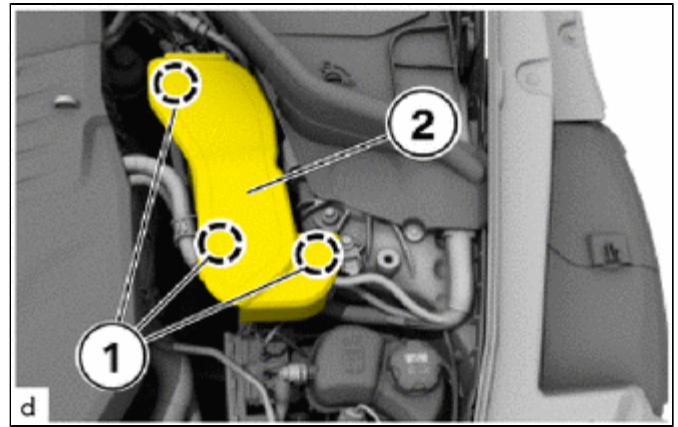
Torque Wrench Fulcrum Length

(d) Connect connectors and lock.

(e) Install the engine room ECU cover (2).

HINT:

The snap-lock couplings (1) must engage audibly.



3. REMOVE BRAKE PEDAL PRESSURE

(a) Remove the brake pedal pressure.

4. INSTALL RADIATOR RESERVE TANK ASSEMBLY

Click here [INFO](#)

5. INSTALL RADIATOR RESERVE TANK SUB-ASSEMBLY

Click here [INFO](#)

6. BLEED BRAKE LINE

Click here [INFO](#)

7. INSTALL FRONT FENDER LINER LH

Click here [INFO](#)

8. INSTALL FRONT WHEEL

Click here [INFO](#)

9. PERFORMING THE START-UP OF THE DSC UNIT AND ADJUSTMENT OF THE SENSORS FOR DRIVING

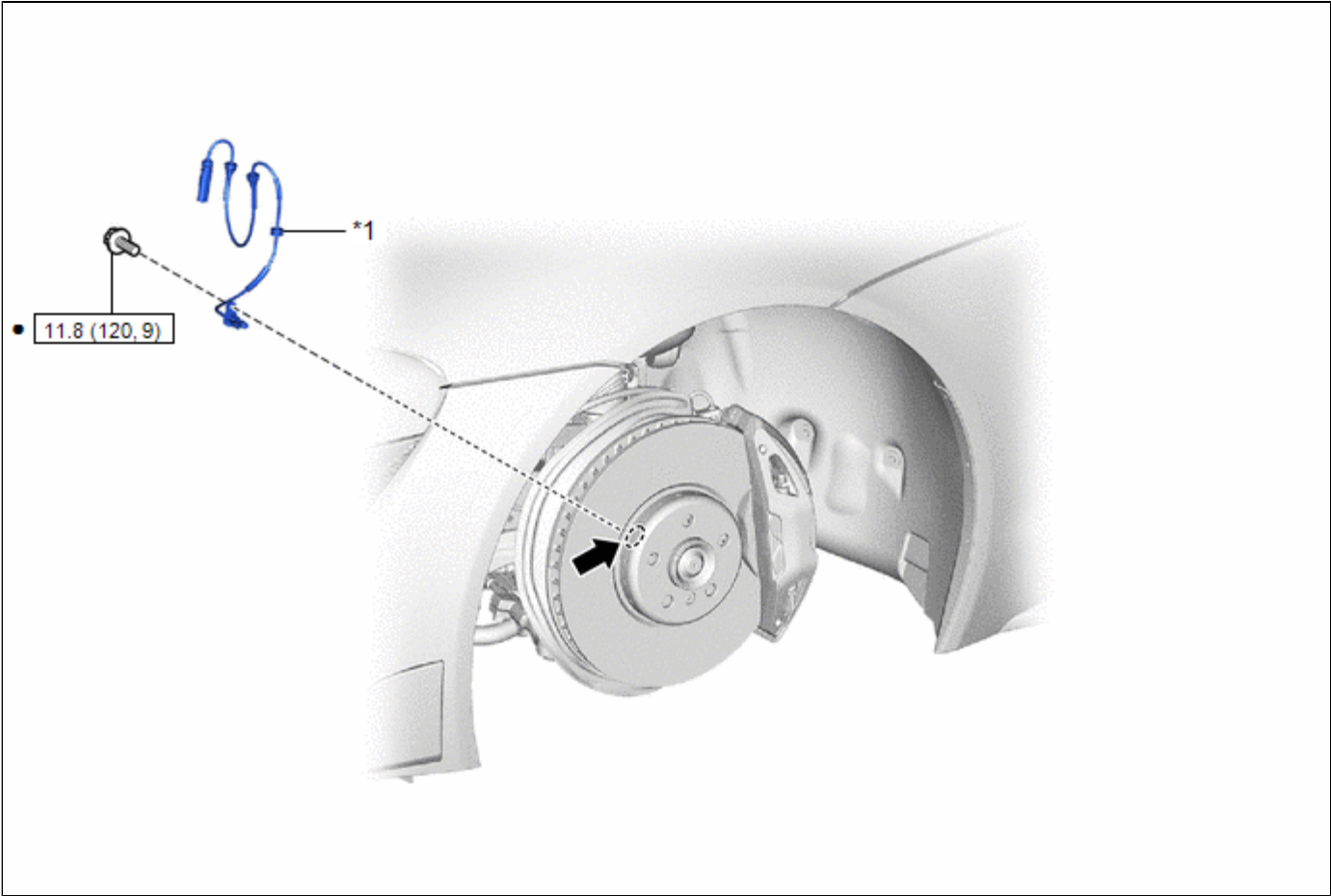
(a) Connect the diagnosis system to the vehicle and enter the following menus:

- Vehicle management / Service functions / Chassis / Traction control system / DSC control unit adjustment / ABL DSC control unit adjustment
- Vehicle management / Service functions / Chassis / Traction control system / Adjustment of the driving dynamics sensors / ABL Adjustment of the driving dynamics sensors

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Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: FRONT SPEED SENSOR: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	FRONT SKID CONTROL SENSOR WIRE	-	-
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part
	NBU 12K Lubricating Grease	-	-

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDO
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: FRONT SPEED SENSOR: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

HINT:

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

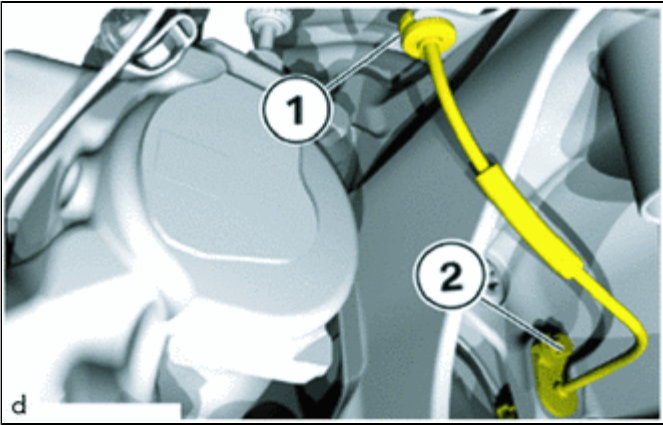
PROCEDURE

1. REMOVE FRONT WHEEL

Click here [INFO](#)

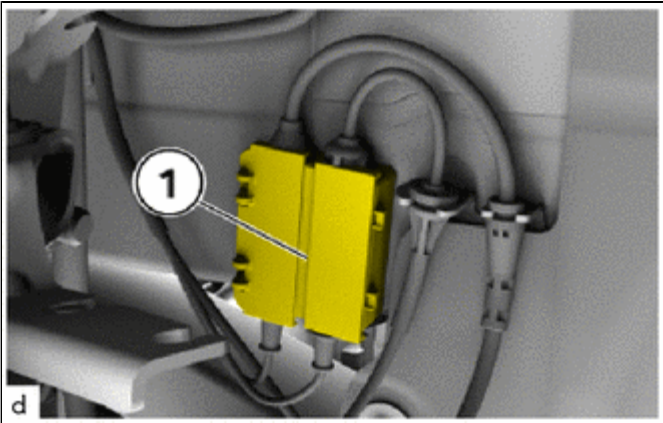
2. REMOVE FRONT SKID CONTROL SENSOR WIRE

(a) Detach the cable of the front skid control sensor wire from the bracket (1).

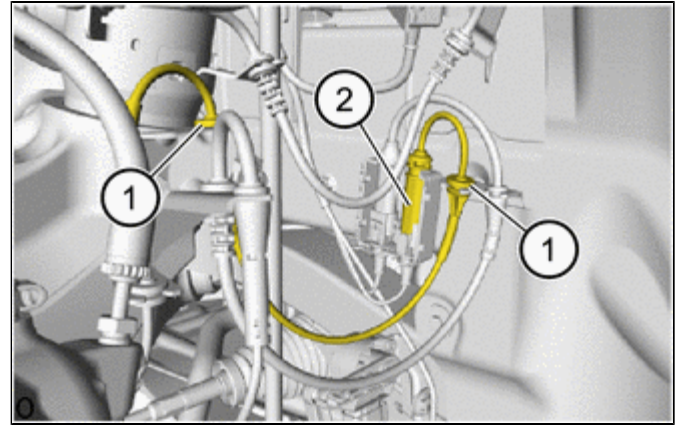


(b) Undo E11 bolt (2) and remove the front skid control sensor wire.

(c) Open the connection box (1).



(d) Detach the front skid control sensor wire cable from the brackets (1).



(e) Unlock plug connection (2) and disconnect.

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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: FRONT SPEED SENSOR: 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.

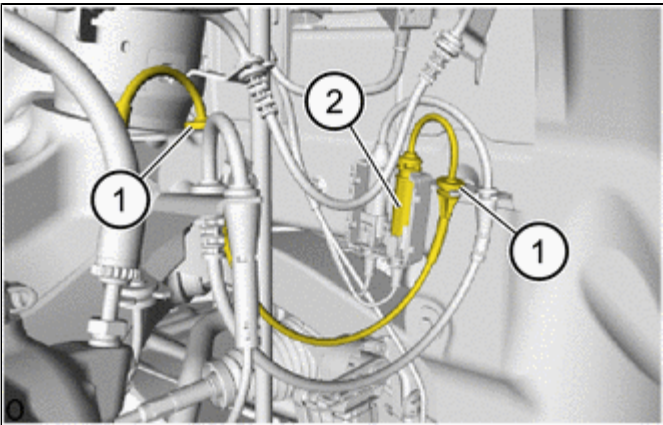
PROCEDURE

1. INSTALL FRONT SKID CONTROL SENSOR WIRE

- (a) Clean the bore hole for the front skid control sensor wire.
- (b) Coat the bore hole for the front skid control sensor wire with NBU 12K Lubricating Grease.
- (c) Install front skid control sensor wire.
- (d) Replace the E11 bolt.
- (e) Position and tighten the E11 bolt.

Torque:
11.8 N·m {120 kgf·cm, 9 ft·lbf}

- (f) Attach the cable of the front skid control sensor wire in the bracket.



- (g) Connect the cable of the front skid control sensor wire in the brackets (1).

- (h) Connect connectors and lock (2).
- (i) Close the connection box.

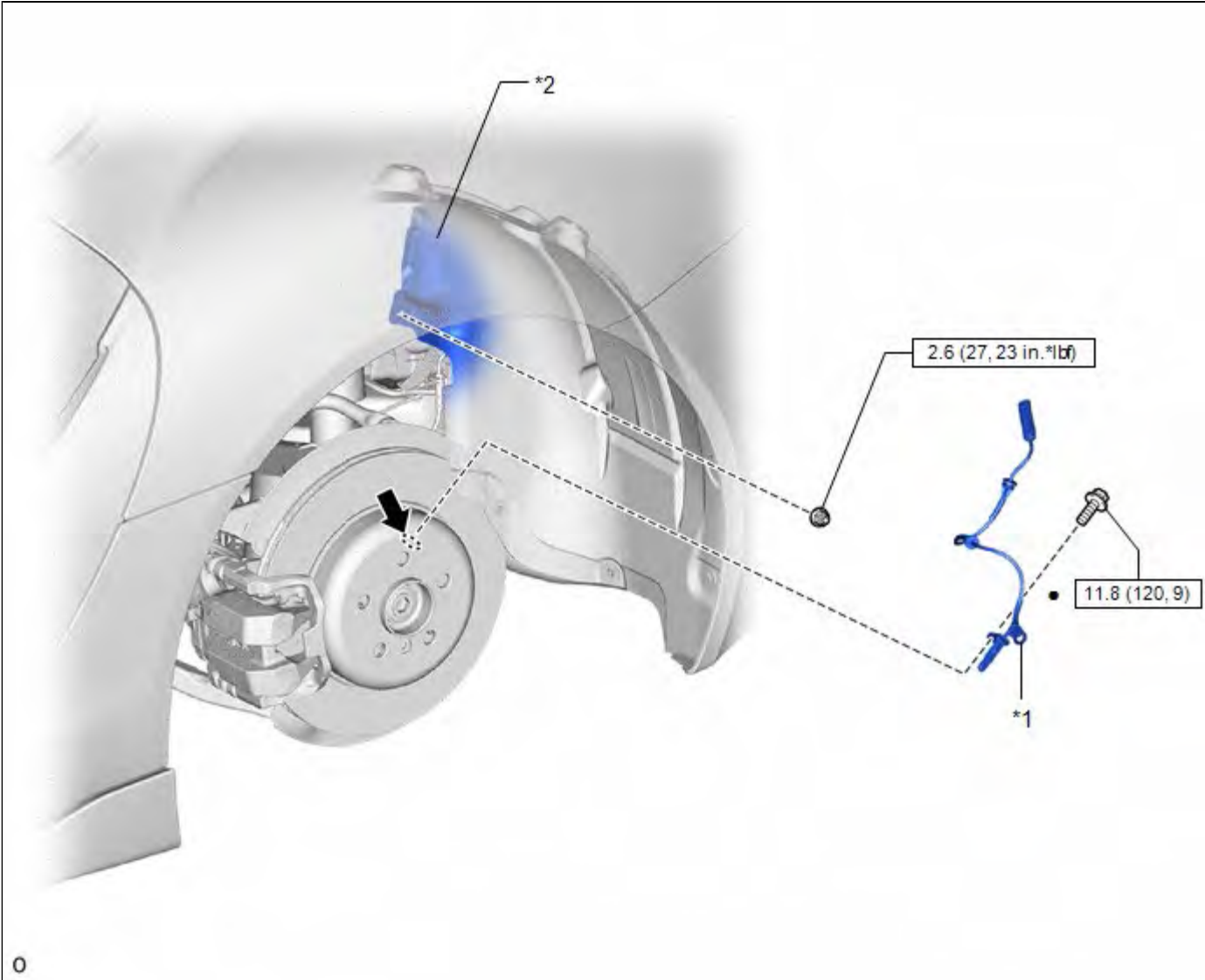
2. INSTALL FRONT WHEEL

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDQ
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: REAR SPEED SENSOR: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	REAR SKID CONTROL SENSOR WIRE	*2	REAR WHEEL HOSE LINER
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part
	NBU 12K Lubricating Grease	-	-

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDR
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: REAR SPEED SENSOR: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

HINT:

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

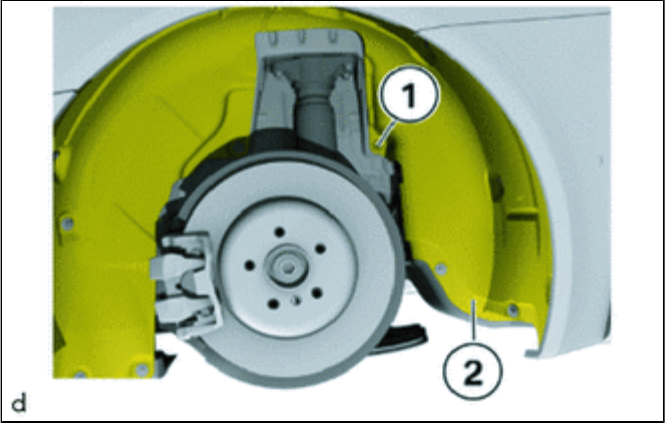
PROCEDURE

1. REMOVE REAR WHEEL

Click here [INFO](#)

2. REMOVE REAR SKID CONTROL SENSOR WIRE

(a) Unscrew the nut (1) in the area of the spring strut.

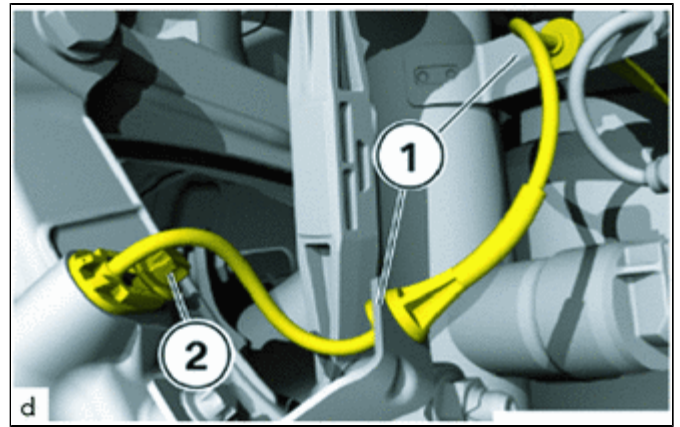


(b) Slightly raise the rear wheel hose liner (2).

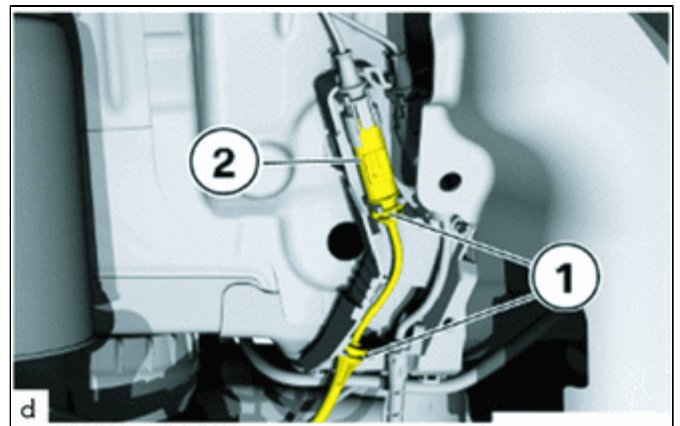
NOTICE:

The wheel arch cover will not be removed.

(c) Undo E11 bolt (2) and remove the rear skid control sensor wire.



(d) Detach the rear skid control sensor wire cable from the brackets (1).



(e) Detach the rear skid control sensor wire cable from the brackets (1).

(f) Unlock plug connection (2) and disconnect.

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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: REAR SPEED SENSOR: 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

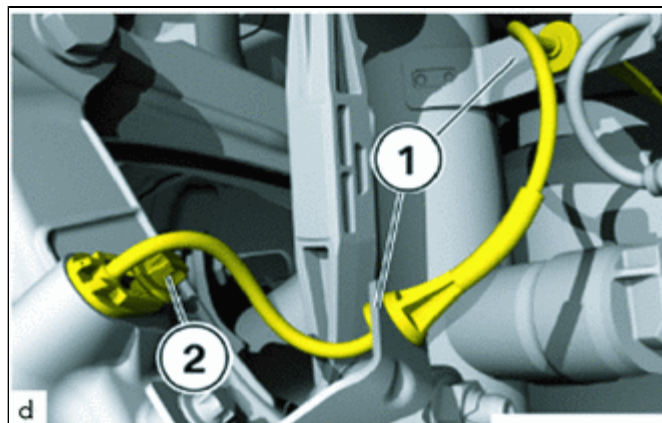
1. INSTALL REAR SKID CONTROL SENSOR WIRE

- Clean the bore hole for the rear skid control sensor wire.
- Coat the bore hole for the rear skid control sensor wire with NBU 12K Lubricating Grease.
- Install rear skid control sensor wire.
- Replace the E11 bolt.

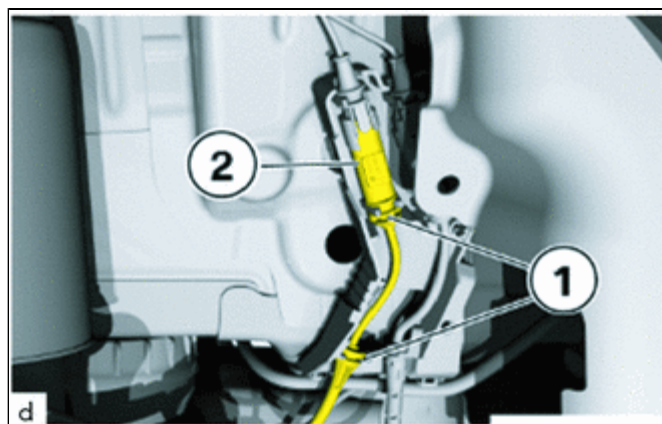
- Tighten down E11 bolt (2).

Torque:

11.8 N·m {120 kgf·cm, 9 ft·lbf}



- Connect the cable of the rear skid control sensor wire in the brackets (1).



- Connect the cable of the rear skid control sensor wire (2) in the brackets (1).

- (h) Connect connectors and lock.
- (i) Position the rear wheel hose liner correctly.
- (j) Tighten down nut.

Torque:

2.6 N·m {27 kgf·cm, 23 in·lbf}

2. INSTALL REAR WHEEL

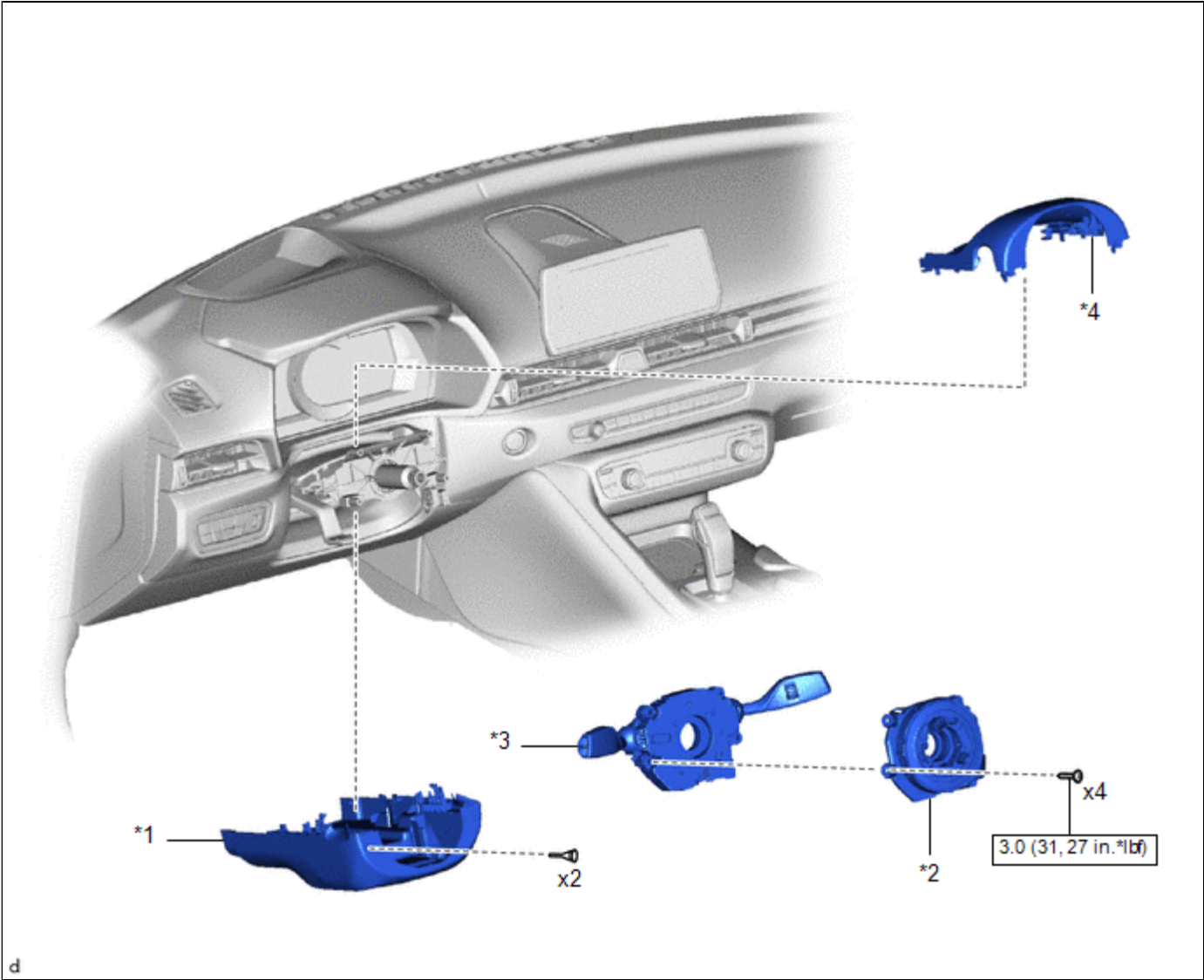
Click here [INFO](#)



Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDT
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: STEERING ANGLE SENSOR: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



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

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDU
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: STEERING ANGLE SENSOR: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

PROCEDURE

1. REMOVE STEERING SENSOR (TURN SIGNAL SWITCH ASSEMBLY)

Click here [INFO](#)



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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: STEERING ANGLE SENSOR: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

1. INSTALL STEERING SENSOR (TURN SIGNAL SWITCH ASSEMBLY)

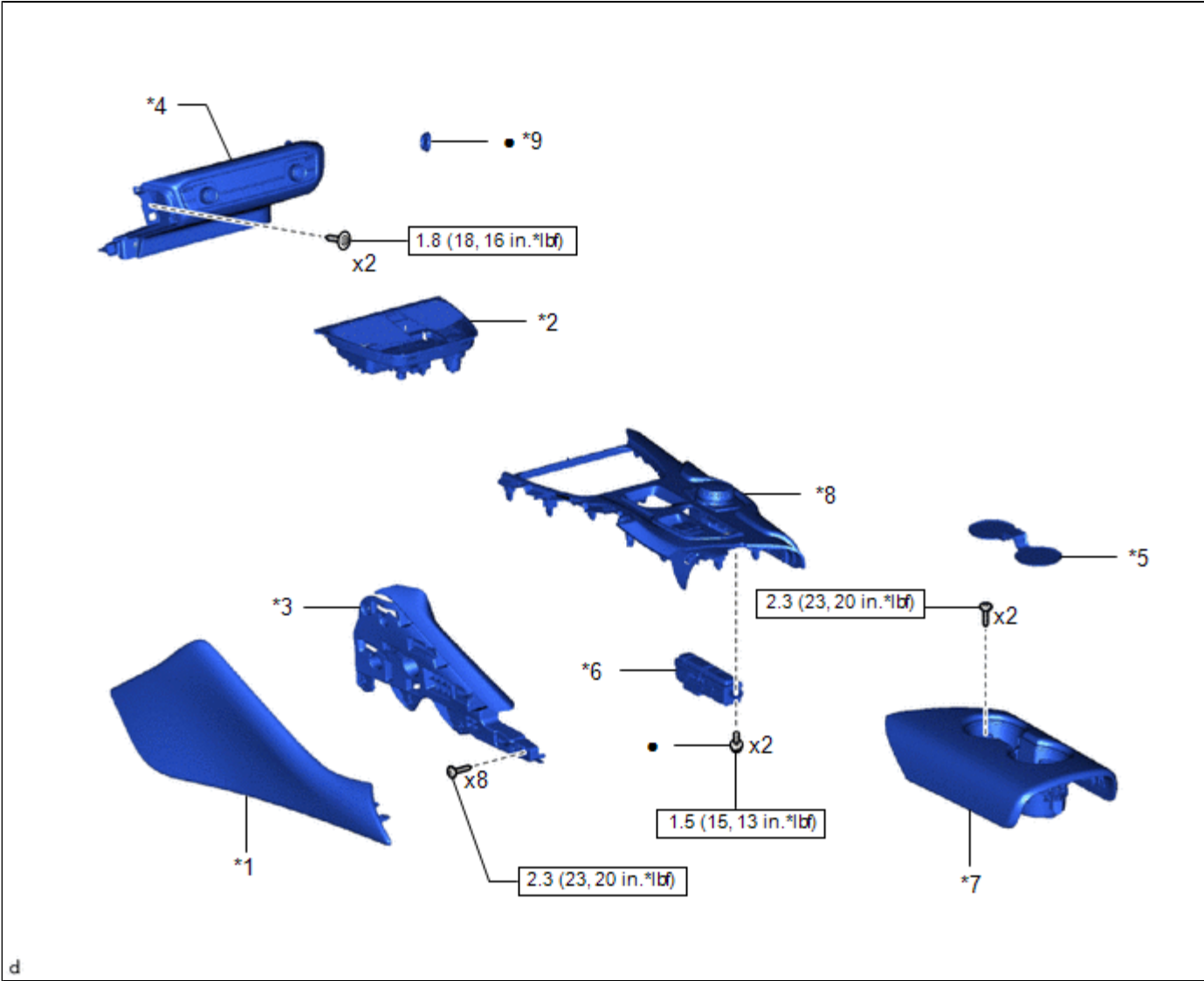
Click here [INFO](#)



Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDW
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: VSC OFF SWITCH: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	CONSOLE SIDE PANEL	*2	FRONT CONSOLE BOX COVER
*3	CONSOLE PANEL AND CONSOLE PANEL RETAINER	*4	INSTRUMENT PANEL FINISH LOWER PANEL
*5	NO. 1 CONSOLE BOX SILENCER PAD	*6	VSC OFF SWITCH (PATTERN SELECT SWITCH ASSEMBLY)
*7	REAR CONSOLE ARMREST ASSEMBLY	*8	UPPER CONSOLE PANEL SUB-ASSEMBLY
*9	RUBBER PLUG	-	-
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: RM100000001JCDX
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: VSC OFF SWITCH: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

PROCEDURE

1. REMOVE VSC OFF SWITCH (PATTERN SELECT SWITCH ASSEMBLY)

Click here [INFO](#)



Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDY
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: VSC OFF SWITCH: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

1. INSTALL VSC OFF SWITCH (PATTERN SELECT SWITCH ASSEMBLY)

Click here [INFO](#)

