

*7	REAR DISC BRAKE PAD SUPPORT PLATE	*8	CYLINDER BOOT
	N*m (kgf*cm, ft.*lbf): Specified torque	*	For use with a union nut wrench
•	Non-reusable part		Brake pad paste

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCAN
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE (REAR): REAR BRAKE: 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](#)

- Effects on other persons.

Danger of injury! Risk of damage!

- Make sure that no other persons are in or around the vehicle.
- After a rear disc brake pad exchange and before applying the brake pedal:
 - Apply the electromechanical parking brake.
 - In case of non-compliance, a CC message appears and the brake system switches to the emergency program. The brake power assistance is no longer active.

NOTICE:

- General information on changing the brake pads:
 - For vehicles older than 48 months it is recommended to replace the retaining spring or expanding spring.
 - The pad wear indicator wire RH must be replaced once it has been removed because the pad wear indicator wire RH loses its retention capability in the brake pad.
- A CBS reset must be done after every brake pad exchange:
 - A CBS reset in the vehicle is possible in the event of a partially ground down pad wear indicator wire RH. The CBS display in the multi-display is active.
 - In the event of a pad wear indicator wire RH that is not partially ground down, a CBS reset is only possible with the diagnosis system. No CBS display in the multi-display.

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- During work on the rear brake, it must be ensured that the button for the electromechanical parking brake cannot be pressed.
- To prevent damage to the surface coating:
 - With floating calipers on the brake caliper mounting bracket or with fixed calipers in the brake caliper housing, do not clean the contact surfaces for the brake pads to the extent that it is possible.
 - Clean the contact surfaces. Next, apply a thin coat of brake pad paste.
 - Spread brake pad paste on the marked surfaces with a brush.
- When exchanging brake pads, reset the CBS display in accordance with factory specification (CBS reset).
- Carry out test braking while driving at low speed because the effectiveness of the brakes may be reduced during the initial braking operations.
- Exaggerated emergency and continuous braking operations for faster bedding-in are not permitted.
- Advise the customer not to perform intentional emergency braking operations for the first 200 km (124 mile) after the brakes have been replaced.

HINT:

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

PROCEDURE

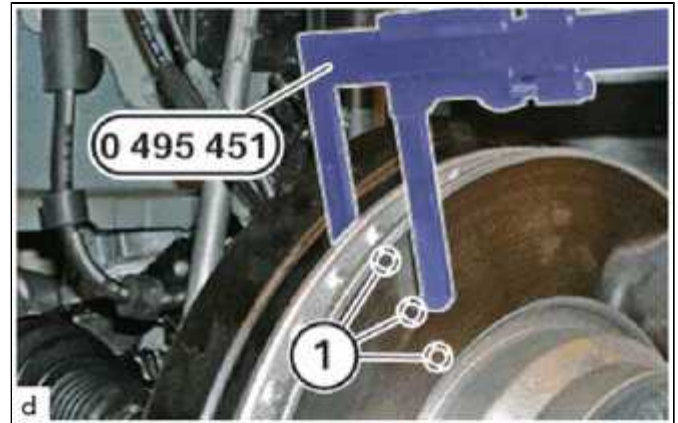
1. REMOVE REAR WHEEL

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2. MEASURE MINIMUM BRAKE DISC THICKNESS (REAR BRAKE)

- (a) Place the special tool 0 495 451 (34 1 280) at three measuring points in area (1) and measure.

SST: 09700-WA090



- (b) Compare the measuring results and compare the lowest value with the setpoint value.

HINT:

New rear disc brake pads must only be installed if the rear disc thickness is greater than the minimum rear disc thickness.

Minimum brake disc thickness:

Nominal dimension 330x20

18.4 mm (0.724 in.)

Nominal dimension 345x24

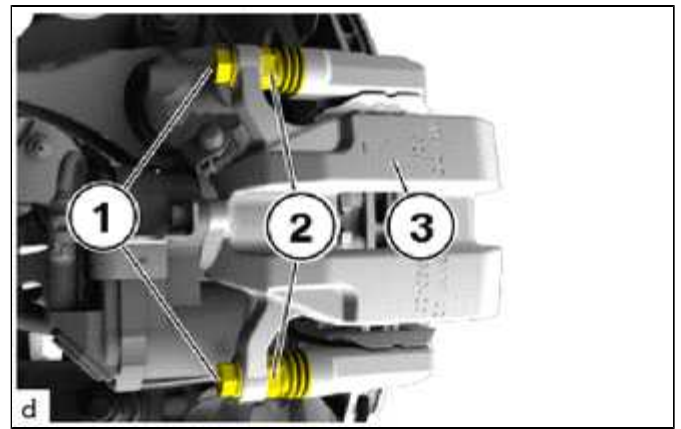
22.4 mm (0.882 in.)

3. REMOVE PAD WEAR INDICATOR WIRE RH (for RH Side)

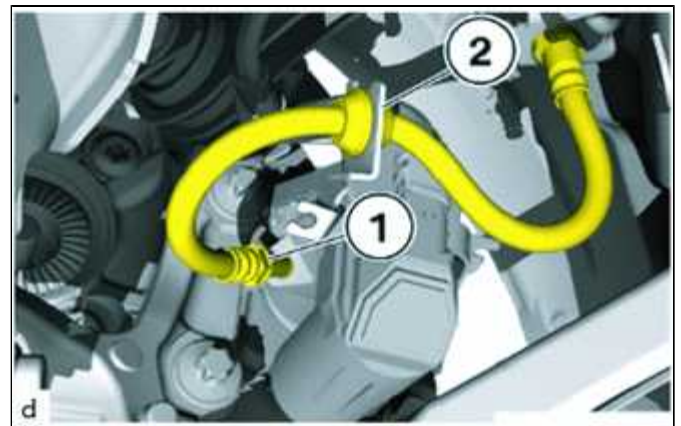
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4. REMOVE REAR DISC BRAKE CYLINDER ASSEMBLY

- (a) Release the 15 mm bolts (1), if necessary use the hexagon head (2) for counter support.



(b) Remove rear disc brake cylinder assembly (3).

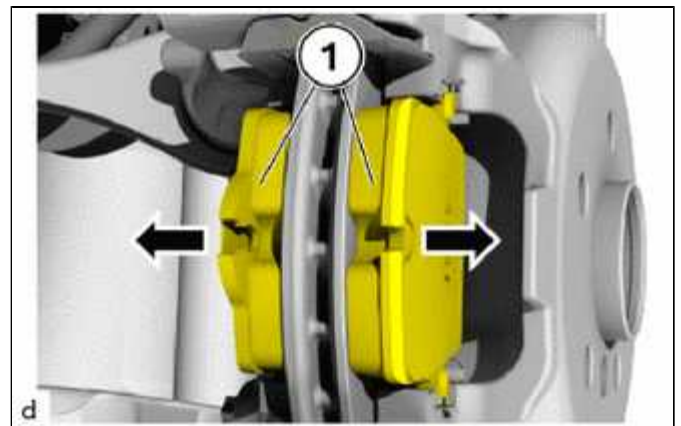


(c) Remove the rear flexible hose (1) from the bracket (2).

(d) Detach rear flexible hose (1) from rear disc brake cylinder assembly.

5. REMOVE REAR DISC BRAKE PAD

(a) Remove the rear disc brake pads (1) from the rear disc brake cylinder mounting in direction of the arrows.

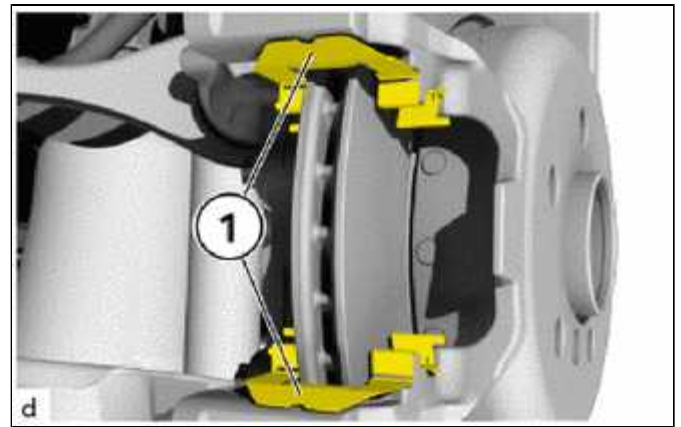


(b) Mark any worn brake pads.

HINT:

If the rear disc brake pad wear exists on one side, they must not be mixed up.

(c) Remove the rear disc brake pad support plates (1).

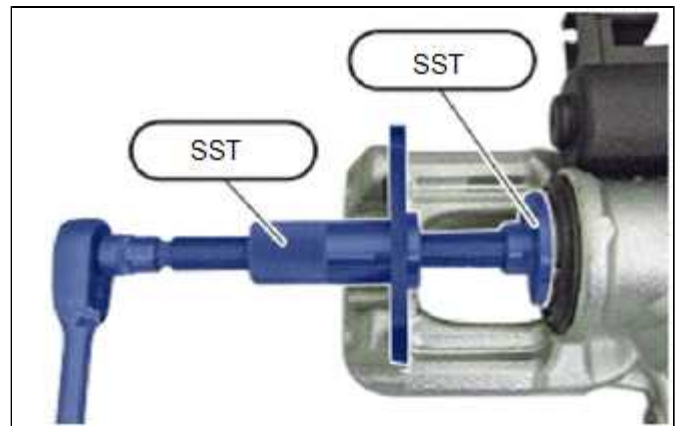


(d) Press back the brake piston using the SST.

SST: 09719-12010

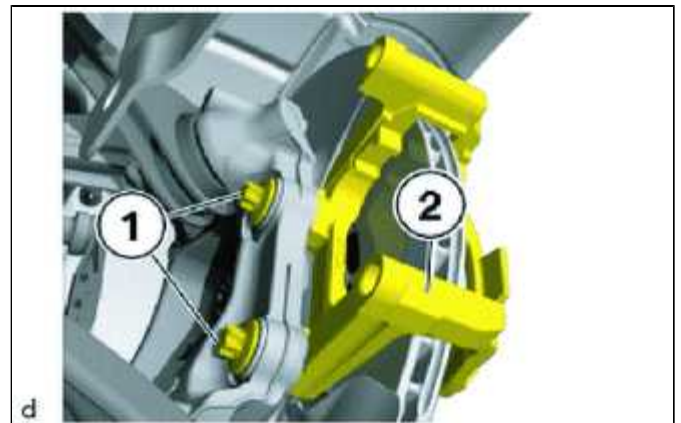
NOTICE:

- When pressing the brake piston back, note the brake fluid level in the brake master cylinder reservoir assembly.
- Overflowing brake fluid will damage the paintwork.



6. REMOVE REAR DISC

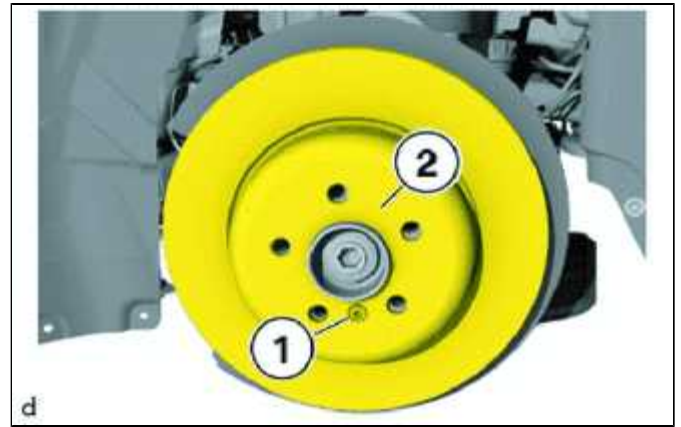
(a) Release the E16 bolts (1) and remove the rear disc brake cylinder mounting (2).



(b) Release the 5 mm hexagon bolt (1) and remove the rear disc (2).

NOTICE:

- Note the following for the removal of the rear disc:
 - Do not under any circumstances strike the friction ring with a hammer or similar tool.
 - If necessary, carefully tap with a rubber mallet against the rear disc chamber.



Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCAO
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE (REAR): REAR BRAKE: DISASSEMBLY; 2020 MY Supra [03/2019 -]		

DISASSEMBLY

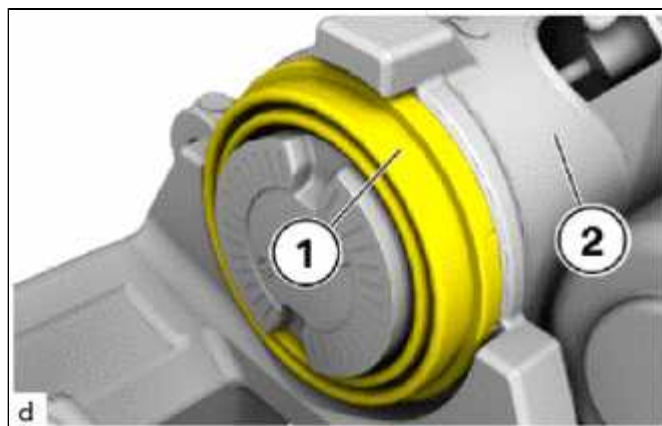
PROCEDURE

1. REMOVE CYLINDER BOOT

- (a) Detach the cylinder boot (1) from the front disc brake cylinder assembly (2).

NOTICE:

The cylinder boot must not be re-used.



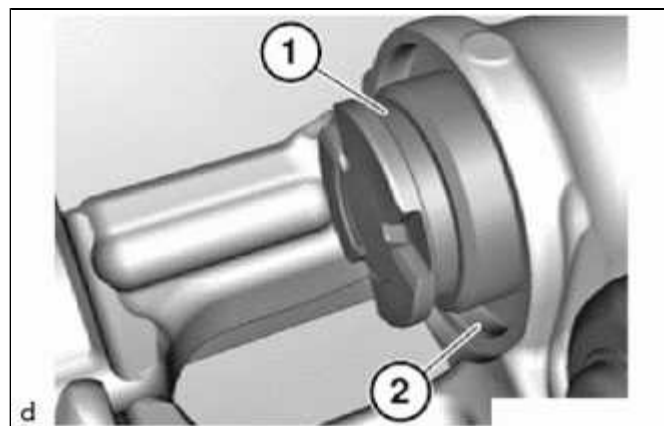
Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCAP
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE (REAR): REAR BRAKE: REASSEMBLY; 2020 MY Supra [03/2019 -]		

REASSEMBLY

PROCEDURE

1. INSTALL CYLINDER BOOT

- (a) Clean the contact surface of the cylinder boot on the rear disc brake cylinder assembly (1) and on the annular groove (2) of the brake piston using a lint-free cloth.

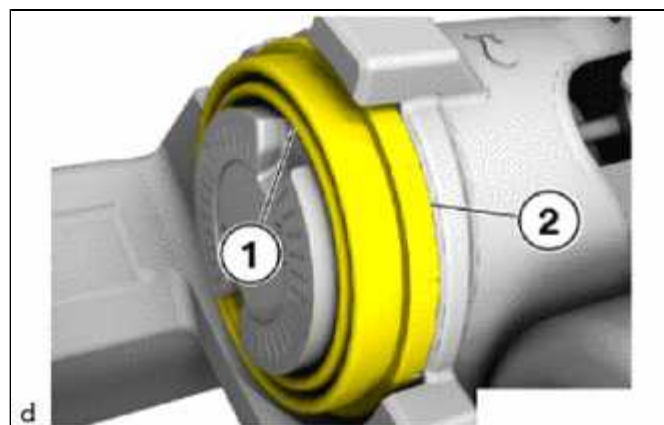


- (b) Carefully check the cylinder of the rear disc brake cylinder assembly and the rear disc brake piston for damage.

NOTICE:

- Corroded or damaged components must be replaced.
- To guarantee that the cylinder boot fits perfectly:
 - Keep the area between the cylinder boot and the rear disc brake cylinder assembly dry.

- (c) Pull the sealing lip (1) of the cylinder boot (2) over the rear disc brake piston until the cylinder boot (2) is completely fitted into the annular groove of the rear disc brake piston.



- (d) Position the cylinder boot (2) evenly on the contact surface of the rear disc brake cylinder assembly and push in evenly.

NOTICE:

The cylinder boot must fit correctly around the entire circumference of the rear disc brake cylinder assembly and on

the annular groove of the rear disc brake piston.



Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCAQ
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE (REAR): REAR BRAKE: 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 DISC

HINT:

- Rear discs must only be replaced in pairs (per axle).
- Fit new rear discs only together with new rear disc brake pads.

(a) Thoroughly clean the contact surface of the rear axle hub sub-assembly, remove traces of corrosion if necessary.

NOTICE:

Irregularities in the contact surface can cause distortion in the rear disc.

(b) Install the rear disc.

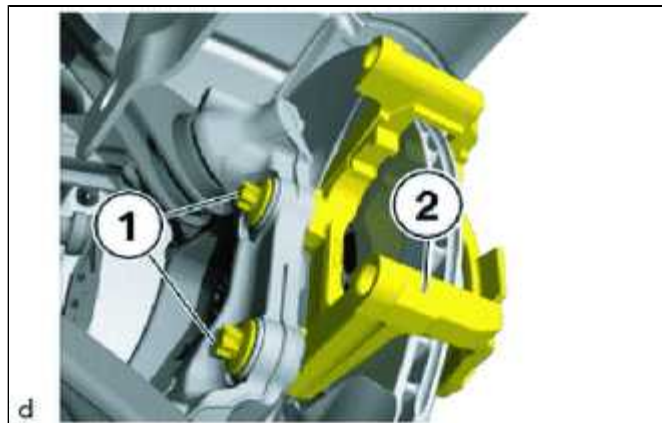
(c) Replace the 5 mm hexagon bolt.

(d) Tighten down 5 mm hexagon bolt.

Torque:

16 N·m {163 kgf·cm, 12 ft·lbf}

(e) Install the rear disc brake cylinder mounting (2).



(f) Replace E16 bolts (1).

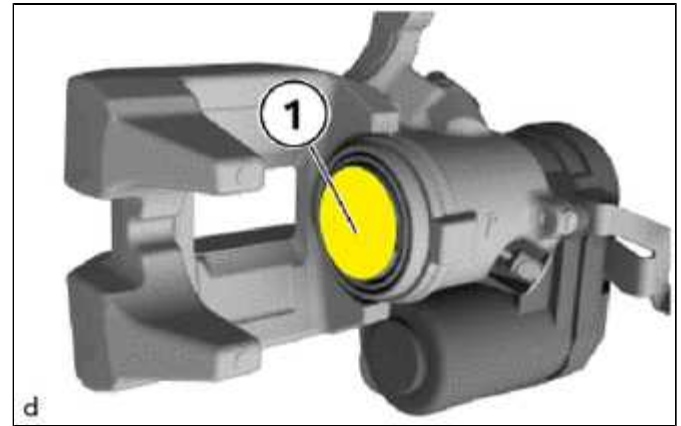
(g) Tighten the E16 bolts (1).

Torque:

110 N·m {1122 kgf·cm, 81 ft·lbf}

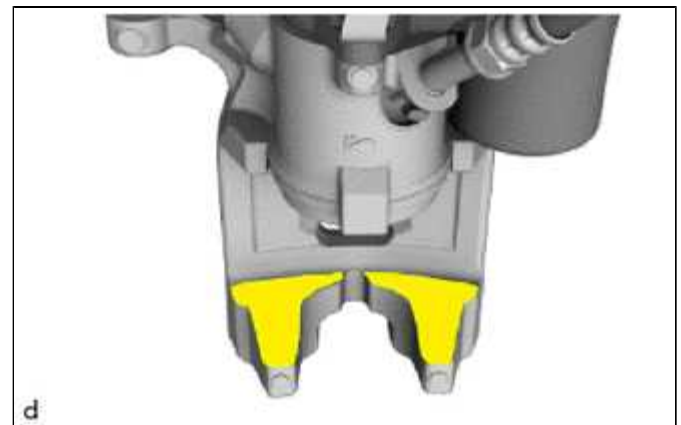
2. INSTALL REAR DISC BRAKE PAD

- (a) Clean contact surface (1) of the brake piston with brake cleaner and apply a thin coat of brake pad paste.



- (b) Check cylinder boot for damage, replace if necessary.

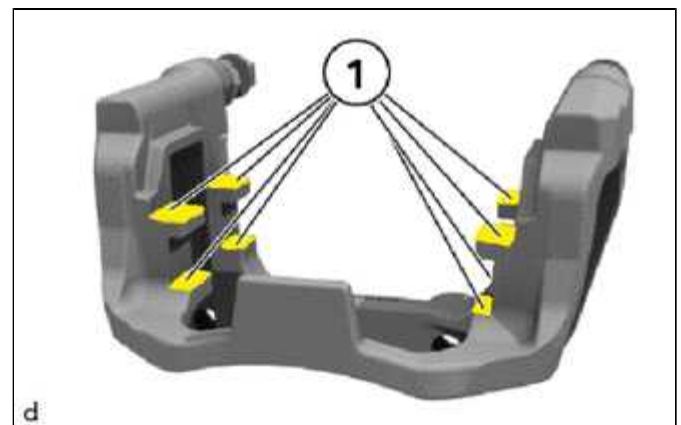
- (c) Clean contact surface of the rear disc brake cylinder assembly with brake cleaner and apply a thin coat of brake pad paste.



- (d) Clean the contact surfaces of the rear disc brake pad support plates (1) with brake cleaner and apply a thin coating of brake pad paste.

NOTICE:

The contact surfaces of the rear disc brake pad support plates (1) for the rear disc brake pads on the rear disc brake cylinder mounting must not be cleaned mechanically to avoid damage to the surface coating.

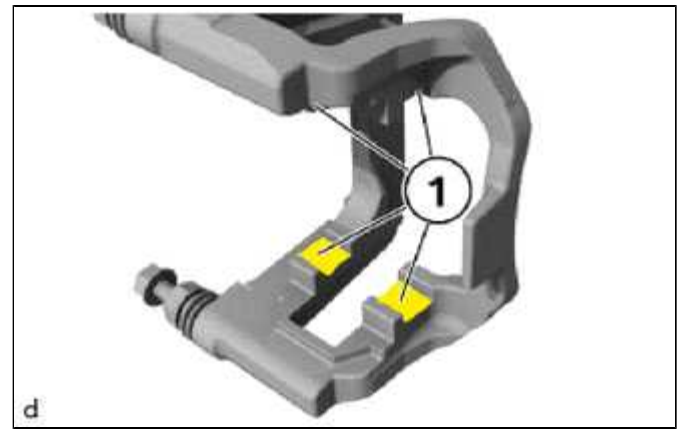


- (e) Clean the contact surfaces of the rear disc brake pad support plates (1) with brake cleaner and apply a thin

coating of brake pad paste.

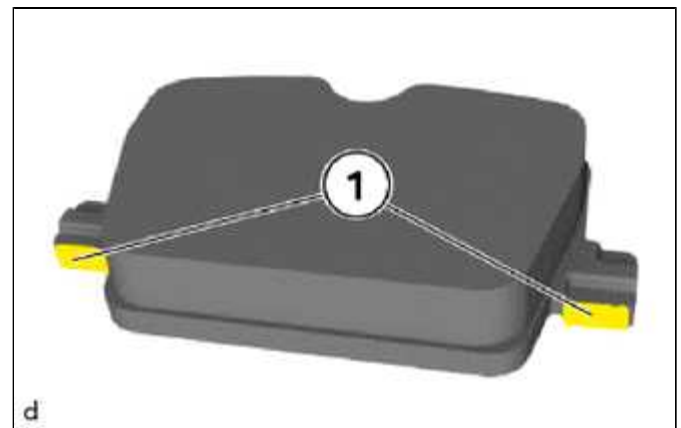
NOTICE:

The contact surfaces of the rear disc brake pad support plates (1) for the rear disc brake pads on the rear disc brake cylinder mounting must not be cleaned mechanically to avoid damage to the surface coating.

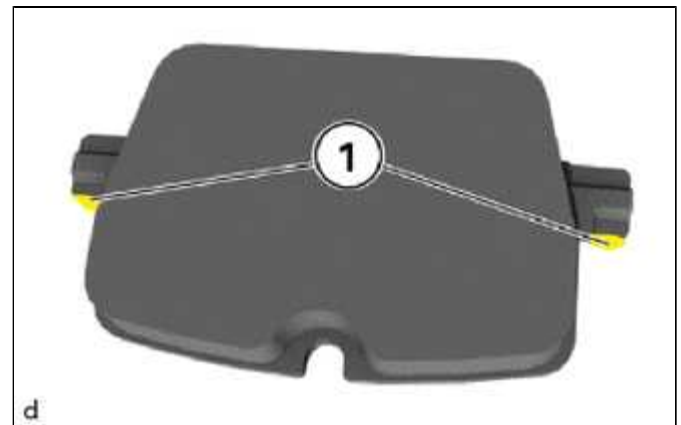


(f) Install the rear disc brake pad support plates.

(g) Coat the T-head of outer rear disc brake pad in the marked area (1) in each case with a thin coating of brake pad paste.

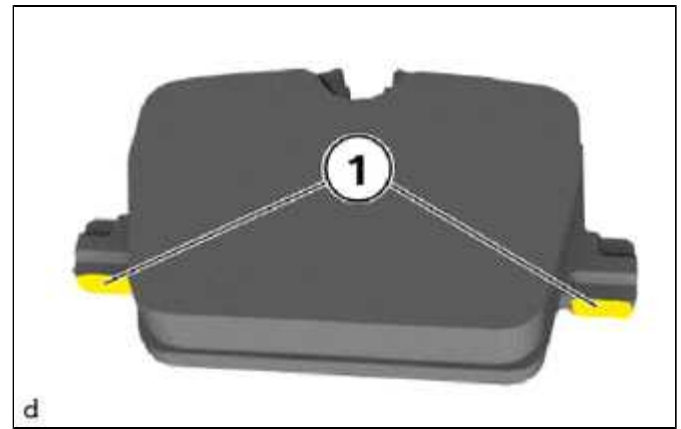


(h) Coat the T-head of outer rear disc brake pad in the marked area (1) in each case with a thin coating of brake pad paste.

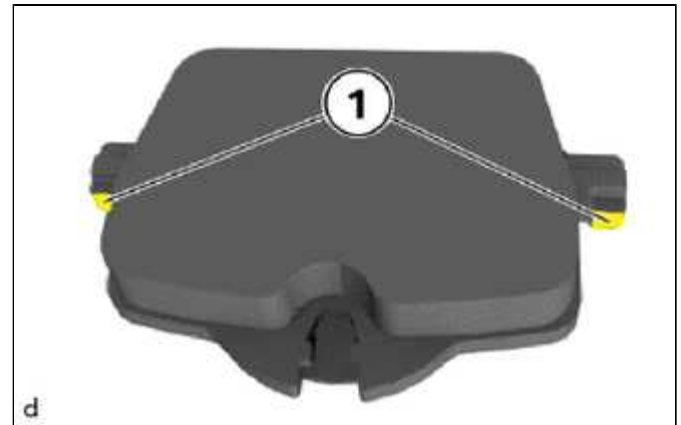


(i) Coat the T-head of outer rear disc brake pad in the marked

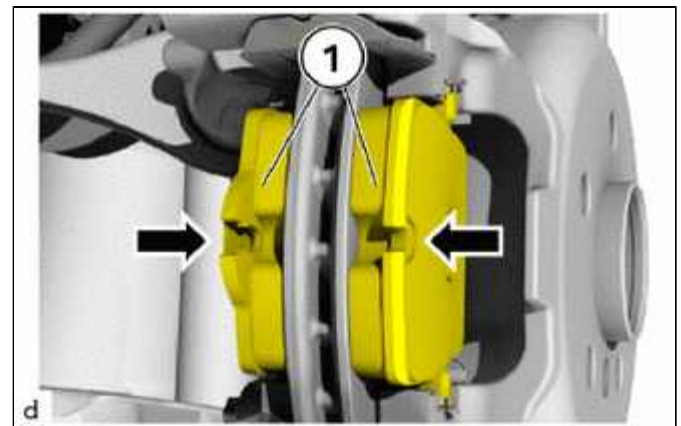
area (1) in each case with a thin coating of brake pad paste.



- (j) Coat the T-head of outer rear disc brake pad in the marked area (1) in each case with a thin coating of brake pad paste.



- (k) Install the rear disc brake pads (1) in the direction of the arrow.



3. INSTALL REAR DISC BRAKE CYLINDER ASSEMBLY

- (a) Using a 14 mm union nut wrench, tighten the rear flexible hose on the rear disc brake cylinder assembly.

Torque:

Specified tightening torque :

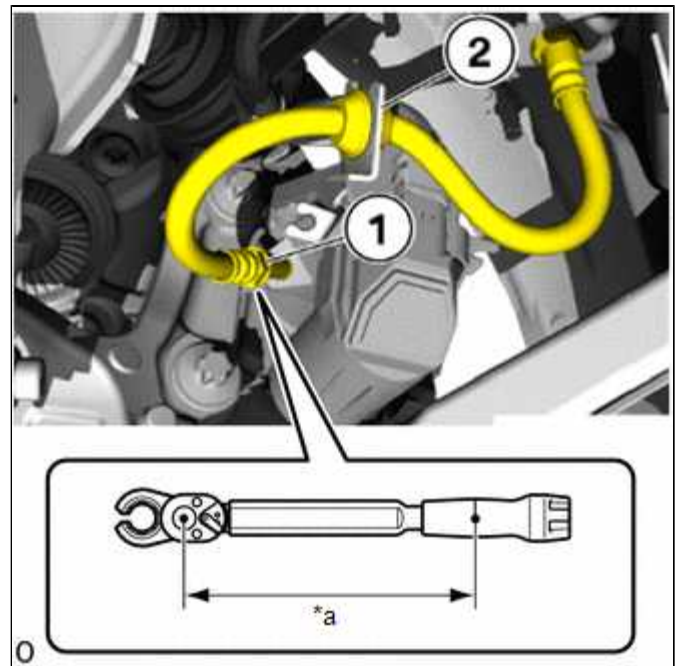
22 N·m { 224 kgf·cm, 16 ft·lbf }

HINT:

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

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- When using a special tool (fulcrum length of 25.0 mm (0.984 in.)) + torque wrench (fulcrum length of 162 mm (6.38 in.)): 19.1 N·m (195 kgf·cm, 14 ft·lbf)



*a	Torque Wrench Fulcrum Length
----	------------------------------

(b) Insert the rear flexible hose into the holder.

NOTICE:

Make sure that the rear flexible hose does not rest against the components fixed to the body and that it is not twisted.

(c) Install the rear disc brake cylinder assembly.

(d) Replace 15 mm bolts.

(e) Tighten the 15 mm bolts, if applicable, hold against the hexagon head.

Torque:

35 N·m { 357 kgf·cm, 26 ft·lbf }

4. INSTALL PAD WEAR INDICATOR WIRE RH (for RH Side)

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5. BLEED BRAKE LINE

Click here [INFO](#)

6. INSTALL REAR WHEEL

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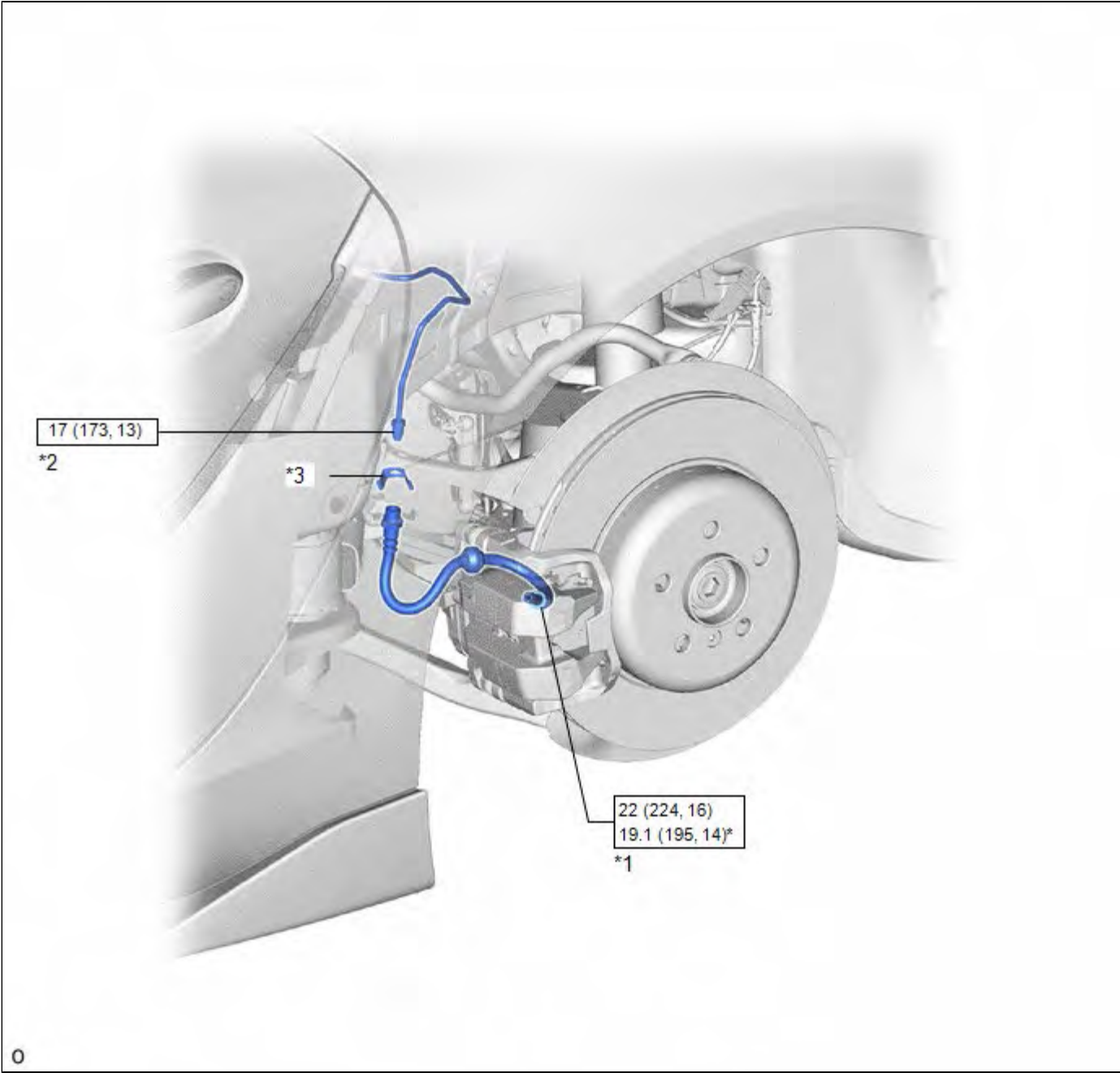
7. PERFORM CBS RESET

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Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCAU
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE (REAR): REAR BRAKE FLEXIBLE HOSE: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	REAR FLEXIBLE HOSE	*2	BRAKE TUBE
*3	CLIP	-	-
	N*m (kgf*cm, ft.*lbf): Specified torque	-	-



Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCAV
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE (REAR): REAR BRAKE FLEXIBLE HOSE: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

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Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCAW
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE (REAR): REAR BRAKE FLEXIBLE HOSE: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

CAUTION / NOTICE / HINT

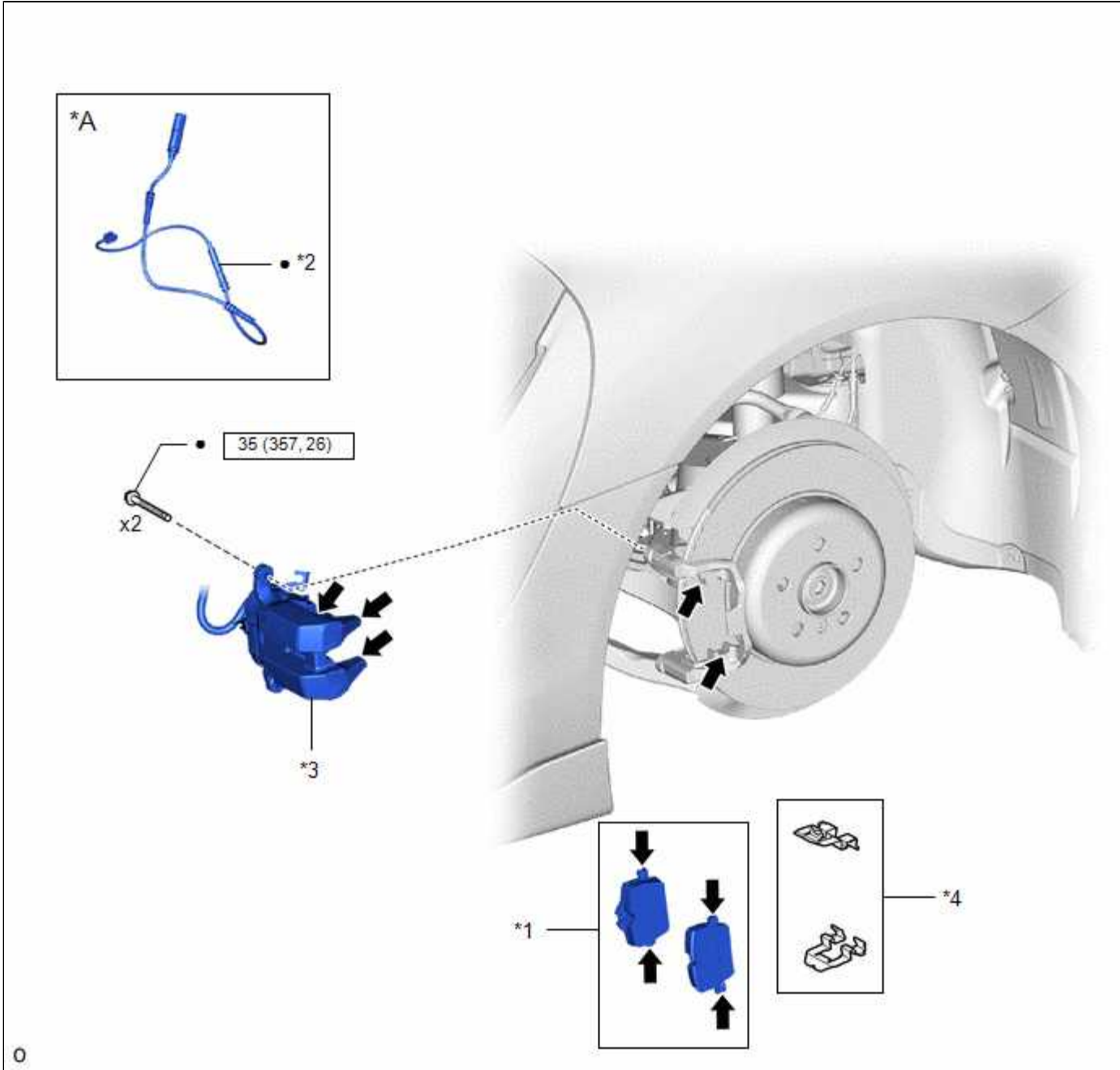
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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: BRAKE (REAR): REAR DISC BRAKE PAD: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*A	for RH Side	-	-
*1	REAR DISC BRAKE PAD	*2	PAD WEAR INDICATOR WIRE RH
*3	REAR DISC BRAKE CYLINDER ASSEMBLY	*4	REAR DISC BRAKE PAD SUPPORT PLATE
N*m (kgf*cm, ft.*lbf): Specified			

	torque	•	Non-reusable part
	Brake Pad Paste	-	-

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCAS
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Title: BRAKE (REAR): REAR DISC BRAKE PAD: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

CAUTION / NOTICE / HINT

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Title: BRAKE (REAR): REAR DISC BRAKE PAD: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

CAUTION / NOTICE / HINT

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