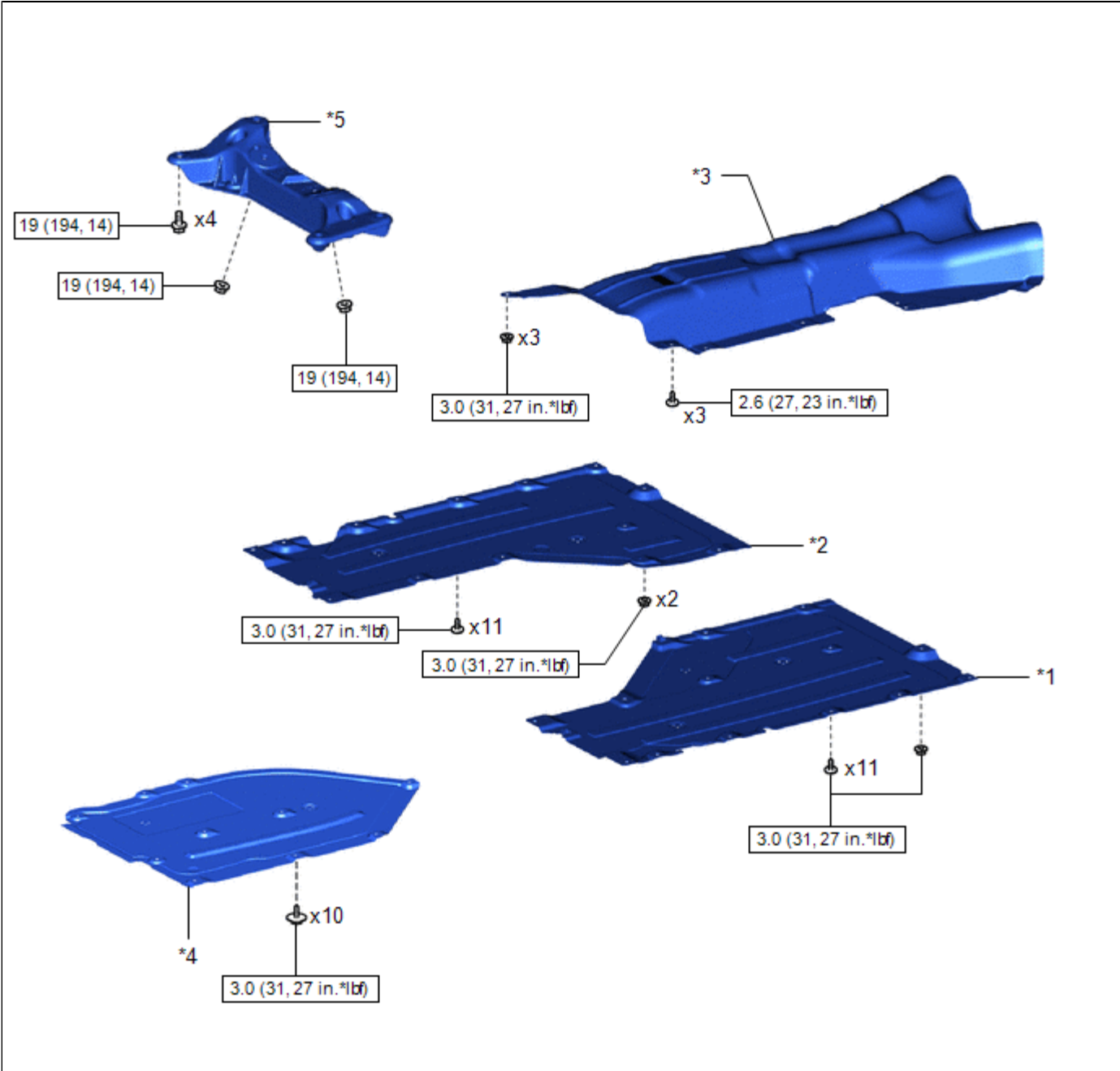


Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDH
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: DRIVE SHAFT / PROPELLER SHAFT: FLEXIBLE COUPLING: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

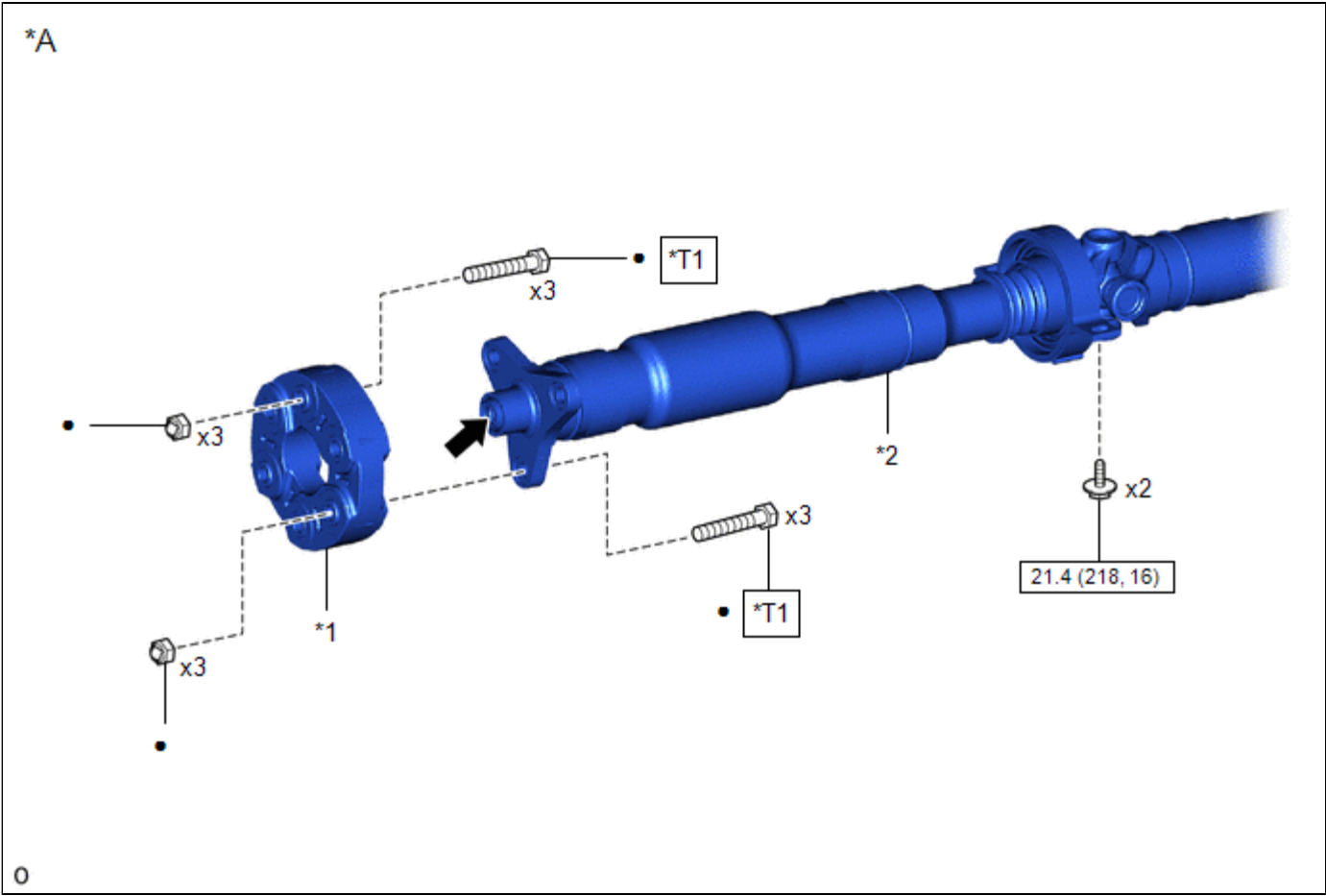
ILLUSTRATION



*1	FRONT FLOOR COVER LH	*2	FRONT FLOOR COVER RH
*3	FRONT NO. 1 FLOOR HEAT INSULATOR	*4	FRONT FLOOR COVER
*5	REAR ENGINE MOUNTING MEMBER	-	-
N*m (kgf*cm, ft.*lbf): Specified			

	torque	-	-
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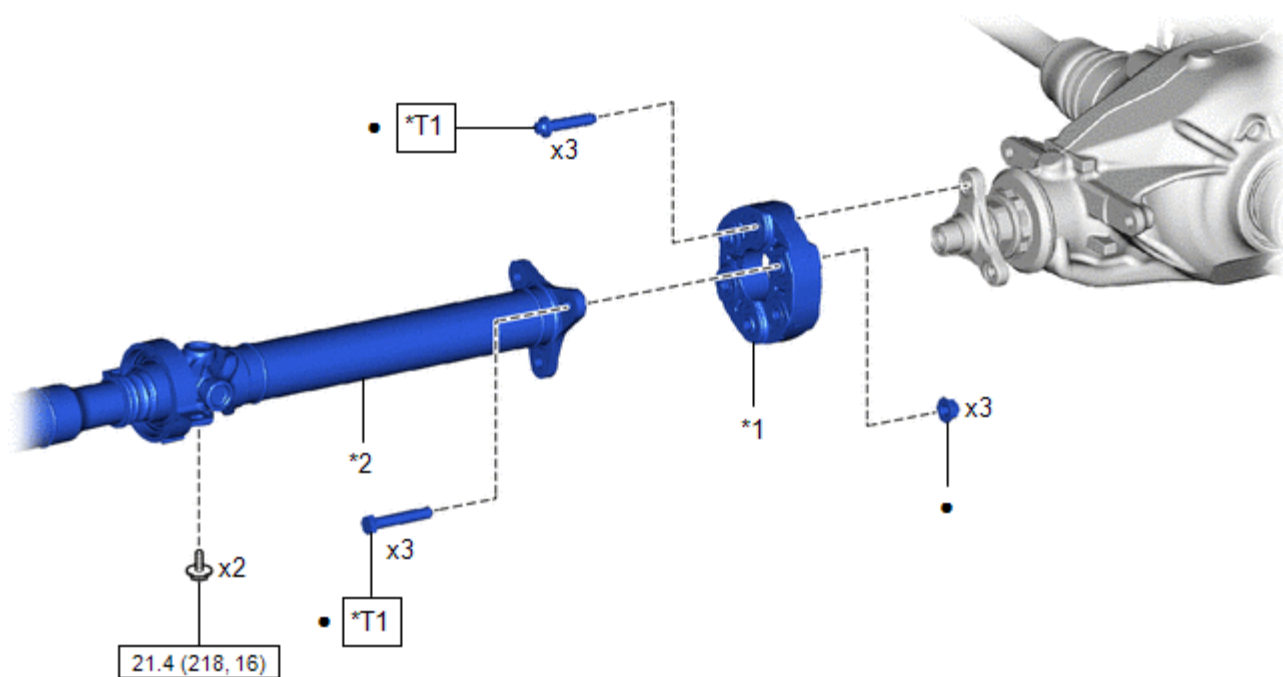
ILLUSTRATION



*A	for Front Side	-	-
*1	FLEXIBLE COUPLING	*2	PROPELLER SHAFT ASSEMBLY WITH CENTER BEARING
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part
	Lubricant Olistamoly 2 LN 584 LO	-	-
*T1	1st: 55 (561, 41) 2nd: Turn 90°	-	-

ILLUSTRATION

*A



0

*A	for Rear Side	-	-
*1	FLEXIBLE COUPLING	*2	PROPELLER SHAFT ASSEMBLY WITH CENTER BEARING
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part
*T1	1st: 55 (561, 41) 2nd: Turn 90°	-	-

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDI
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: DRIVE SHAFT / PROPELLER SHAFT: FLEXIBLE COUPLING: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

PROCEDURE

1. REMOVE FRONT FLOOR COVER

Click here [INFO](#)

2. REMOVE FRONT FLOOR COVER LH

Click here [INFO](#)

3. REMOVE FRONT FLOOR COVER RH

HINT:

Use the same procedure as for the LH side.

4. REMOVE EXHAUST PIPE ASSEMBLY

Click here [INFO](#)

5. REMOVE FRONT NO. 1 FLOOR HEAT INSULATOR

Click here [INFO](#)

6. REMOVE REAR ENGINE MOUNTING MEMBER (for Front Side)

Click here [INFO](#)

7. SEPARATE PROPELLER SHAFT ASSEMBLY WITH CENTER BEARING (for Front Side)

NOTICE:

- Damage to propeller shaft assembly with center bearing during removal.

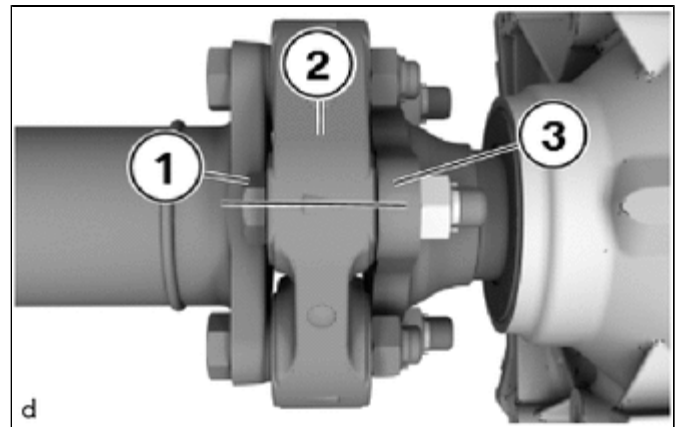
Non-observance of the removal guidelines for the propeller shaft assembly with center bearing on the rear axle differential may cause severe damage.

- Do not disassemble the three-hole flange, flexible coupling and propeller shaft assembly with center bearing. The three-hole flange to the rear axle differential is balanced with the flexible coupling and propeller shaft assembly with center bearing.
- Loosen the recessed nut against the direction of travel in clockwise direction. The propeller shaft assembly with center bearing must be loosened on the recessed nut only and exclusively in the direction of rotation otherwise the anti-twist lock of the bi-hexagonal flange nut is damaged.

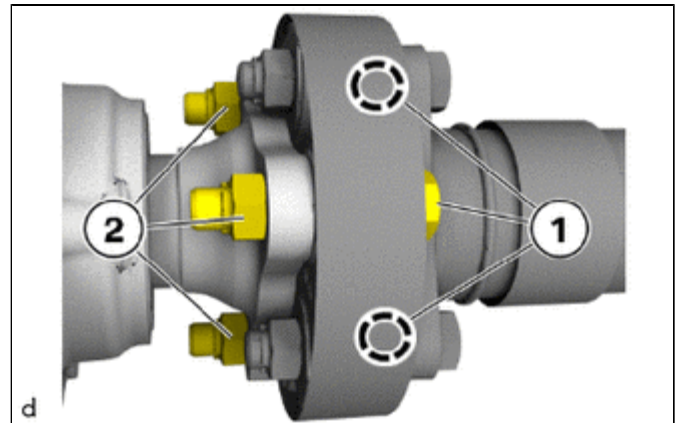
(a) Mark the installation position of the 18 mm bolts connection (2) of the flexible coupling (1) and the three-hole flange (3).

(1) The mark makes it possible for the propeller shaft assembly with center bearing to be installed again in

the same position. This should prevent a humming noise from the drive train during driving.



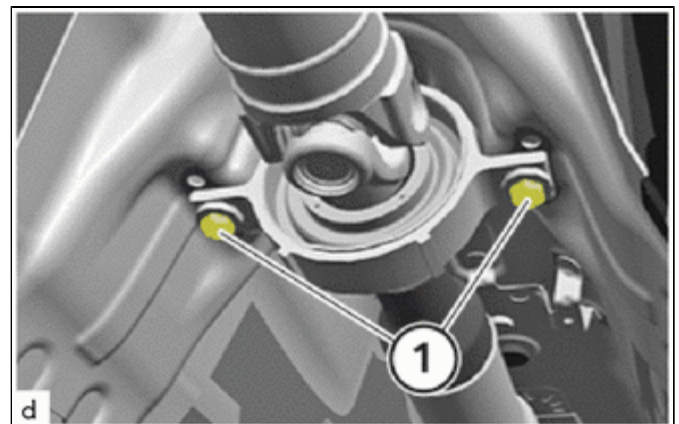
(b) Release 18 mm bolts (1) and counter the 18 mm nuts (2).



(c) Remove the bolts (1) on the center No. 1 support bearing assembly and hold down the propeller shaft assembly with center bearing.

NOTICE:

Major deflection angles of the propeller shaft assembly with center bearing may damage the propeller shaft assembly with center bearing and/or the joints.



(d) Tie up propeller shaft assembly with center bearing to underbody.

8. SEPARATE PROPELLER SHAFT ASSEMBLY WITH CENTER BEARING (for Rear Side)

NOTICE:

- Damage to propeller shaft assembly with center bearing during removal.

Non-observance of the removal guidelines for the propeller shaft assembly with center bearing on the rear axle differential may cause severe damage.

- Do not disassemble the three-hole flange, flexible coupling and propeller shaft assembly with center bearing. The three-hole flange to the rear axle differential is balanced with the flexible coupling and propeller shaft assembly with center bearing.
- Loosen the recessed nut against the direction of travel in clockwise direction. The propeller shaft assembly with center bearing must be loosened on the recessed nut only and exclusively in the direction of rotation otherwise the anti-twist lock of the bi-hexagonal flange nut is damaged.

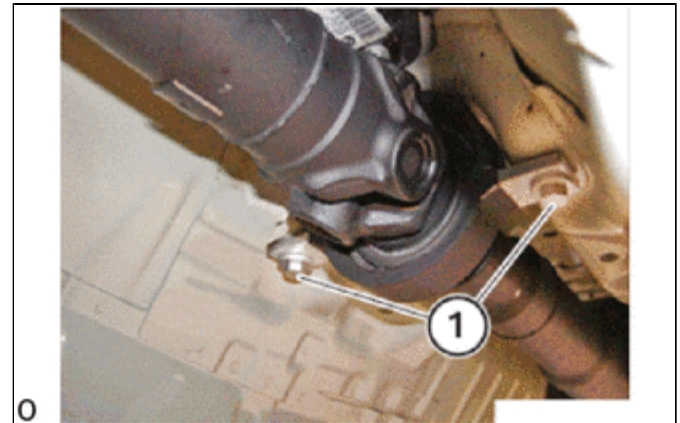
HINT:

To protect universal joints, tie back propeller shaft assembly with center bearing in area of center bearing.

- (a) Remove the bolts (1) on the center No. 1 support bearing assembly and hold down the propeller shaft assembly with center bearing.

NOTICE:

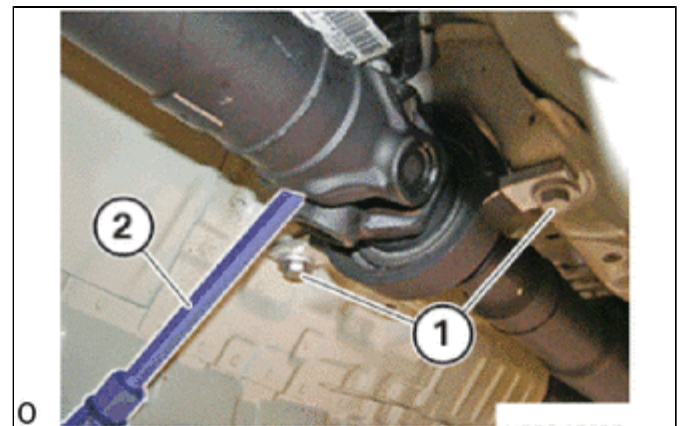
Major deflection angles of the propeller shaft assembly with center bearing may damage the propeller shaft assembly with center bearing and/or the joints.



- (b) Secure the propeller shaft assembly with center bearing against twisting at the central universal joint using a suitable tool (2).

HINT:

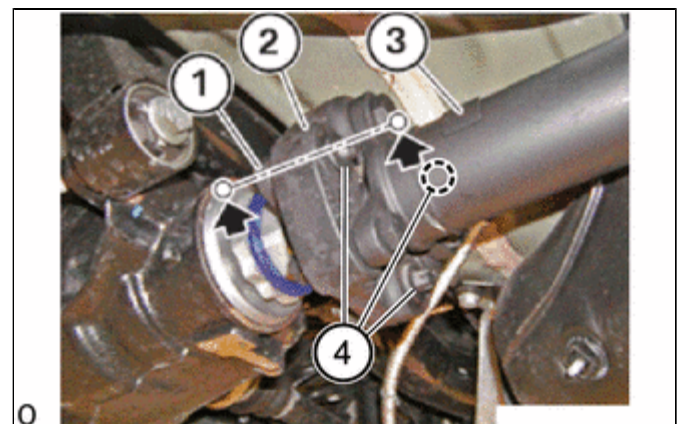
Remove bolts completely (1) only after opening the bolts on the 3-hole flange.



- (c) Mark the installation position of the three-hole flange (1), the flexible disc (2) and the propeller shaft (3) on the same level (arrows).

HINT:

The identification allows the three-hole flange and the propeller shaft to be installed at the same position. This guarantees that the three-hole punch for the rear axle differential will once again be balanced with the propeller shaft after installation.



(d) Remove the E16 bolts (4).

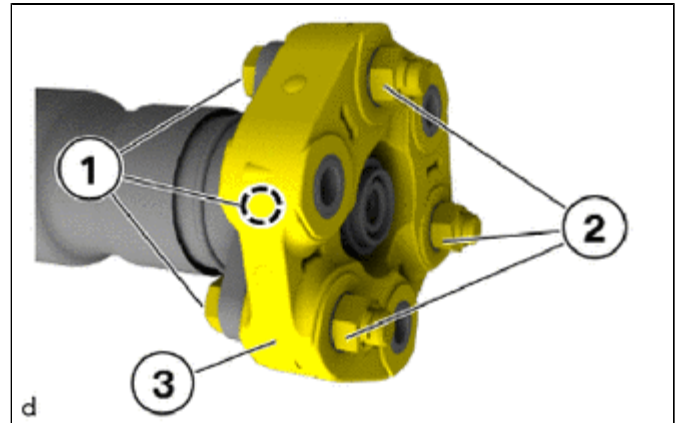
(e) Detach the propeller shaft assembly with center bearing (3) at the three-hole flange (1) and at the center mount.

9. REMOVE FLEXIBLE COUPLING (for Front Side)

HINT:

To protect universal joints, tie back propeller shaft assembly with center bearing in area of center mount.

(a) Release the 18 mm bolts (1), if necessary counter support at the 18 mm nuts (2).



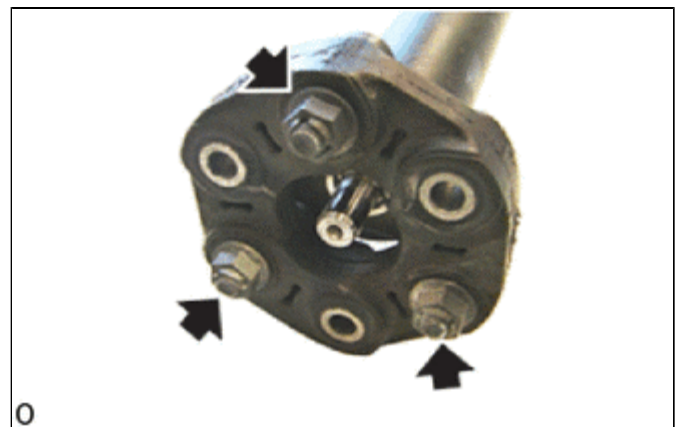
(b) Remove the flexible coupling (3) from the propeller shaft assembly with center bearing.

10. REMOVE FLEXIBLE COUPLING (for Rear Side)

HINT:

To protect universal joints, tie back propeller shaft assembly with center bearing in area of center mount.

(a) Release 18 mm bolts and counter the 18 mm nuts and remove flexible disc from the propeller shaft assembly with center bearing.



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Title: DRIVE SHAFT / PROPELLER SHAFT: FLEXIBLE COUPLING: INSTALLATION; 2020 MY Supra [03/2019 -]		

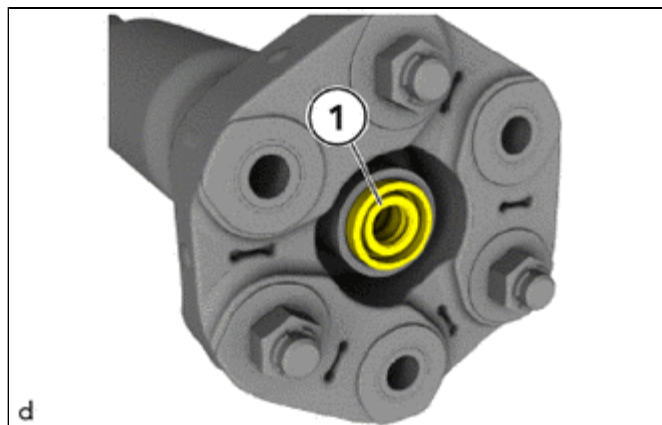
INSTALLATION

CAUTION / NOTICE / HINT

PROCEDURE

1. INSTALL FLEXIBLE COUPLING (for Front Side)

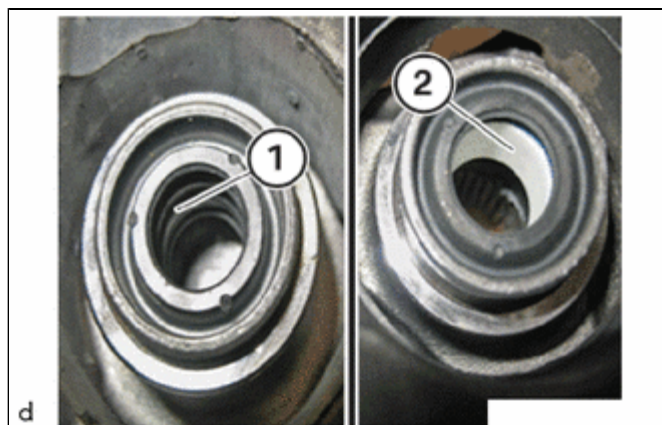
- (a) Check center No. 1 support bearing assembly (1) for damage; replace if necessary.



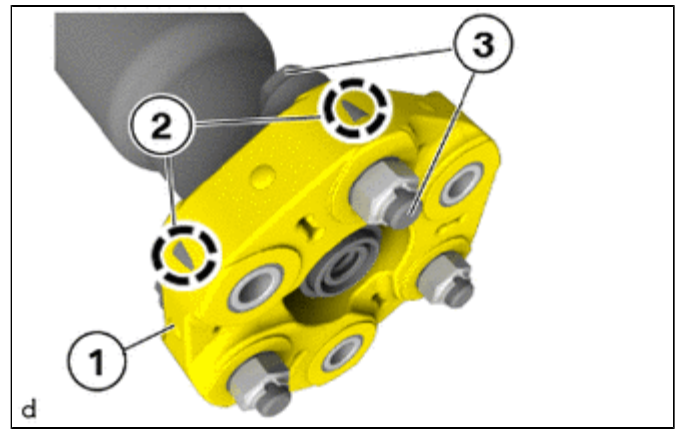
- (b) Apply a thin coat of Lubricant Olistamoly 2 LN 584 LO to the soft centering (1), if necessary.

NOTICE:

Do not grease the hard centering (2).



- (c) Replace 18 mm bolts and 18 mm self-locking nuts.



(d) During the installation, make sure that the arrows (2) on the circumference of the flexible coupling point to the flange arms (3).

(e) Mount flexible coupling (1) on the propeller shaft assembly with center bearing and tighten the 18 mm bolts.

Torque:

55 N·m {561 kgf·cm, 41 ft·lbf}

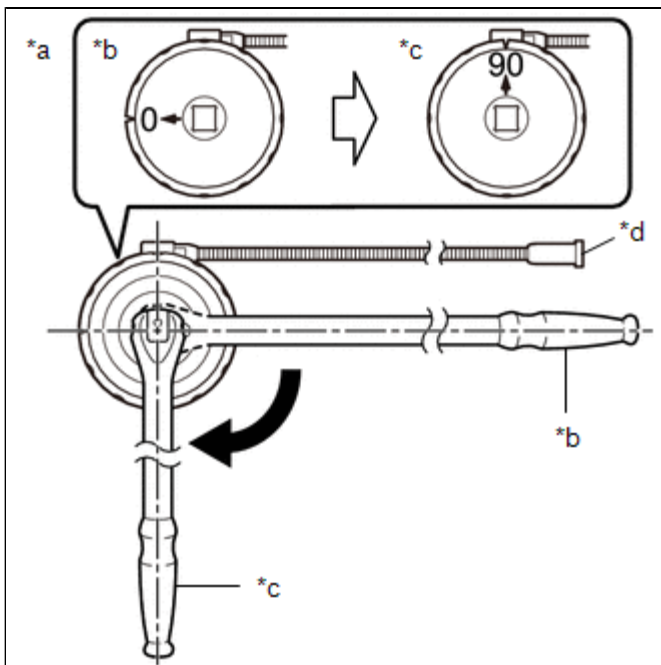
(f) Tighten the 18 mm bolts an additional 90° and counter support them at the 18 mm nuts.

SST: 09900-WA010

NOTICE:

Joining torque and angle of rotation must be observed without fail.

HINT:



*a	Example
*b	Before Tightening
*c	After Tightening
*d	Magnetic Portion

- The magnetic portion is used to secure the gauge to the vehicle.
- After first adjusting the needle of the gauge to 0°, tighten to the specified angle.
- Perform the work procedure carefully so that the gauge, etc. does not become tilted.

2. INSTALL FLEXIBLE COUPLING (for Rear Side)

- (a) Replace 18 mm bolts and 18 mm self-locking nuts.
- (b) Mount the flexible disc on the propeller shaft assembly with center bearing and tighten the 18 mm bolts.

Torque:

55 N·m {561 kgf·cm, 41 ft·lbf}

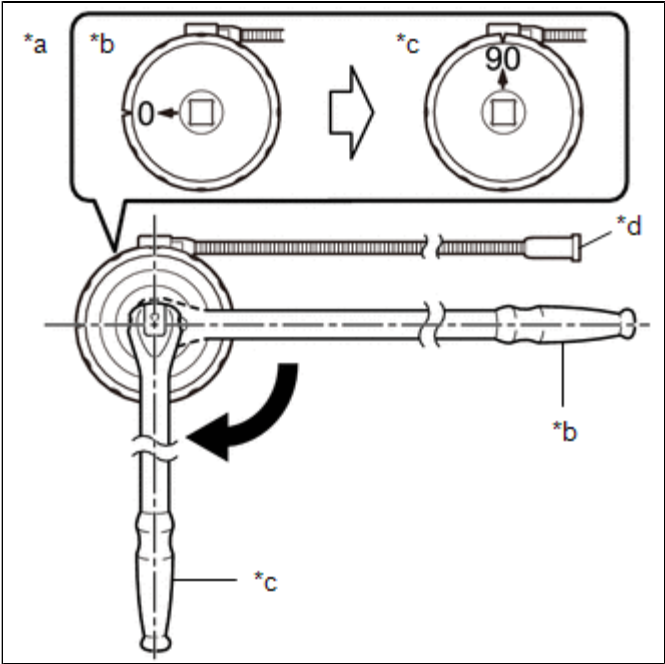
- (c) Tighten the 18 mm bolts an additional 90° and counter support them at the 18 mm nuts.

SST: 09900-WA010

NOTICE:

Jointing torque and angle of rotation must be observed without fail.

HINT:



*a	Example
*b	Before Tightening
*c	After Tightening
*d	Magnetic Portion

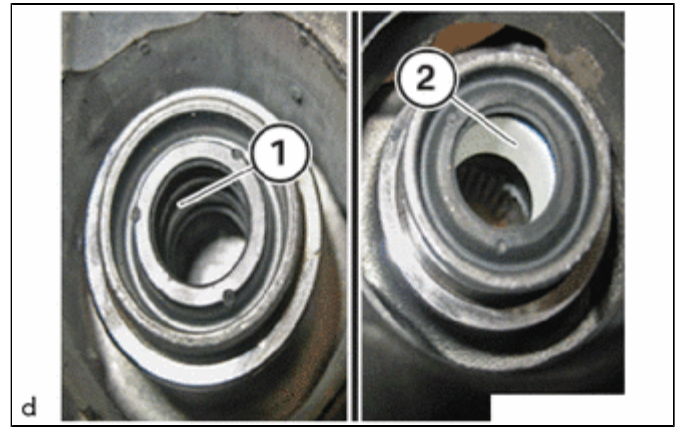
- The magnetic portion is used to secure the gauge to the vehicle.
- After first adjusting the needle of the gauge to 0°, tighten to the specified angle.
- Perform the work procedure carefully so that the gauge, etc. does not become tilted.

3. INSTALL PROPELLER SHAFT ASSEMBLY WITH CENTER BEARING (for Front Side)

- (a) Check center No. 1 support bearing assembly for damage, replace if necessary.

- (b) Apply a thin coat of Lubricant Olistamoly 2 LN 584 LO to the soft centering (1), if necessary.

(1) Do not grease the hard centering (2).

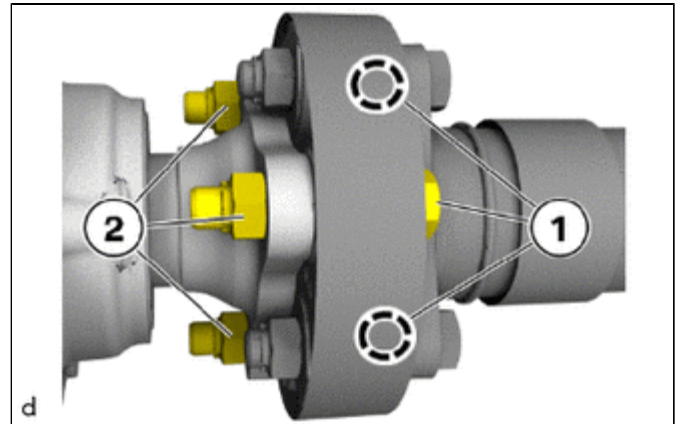


(c) Replace the 18 mm bolts and 18 mm self-locking nuts.

(d) Assemble the 18 mm bolts connections of the flexible coupling and the three-hole flange according to the self-affixed identification.

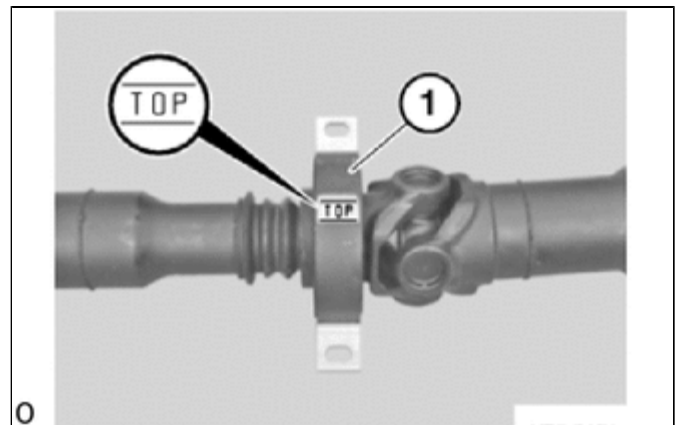
(1) This should prevent a humming noise from the drive train during driving.

(e) Hand-tighten 18 mm bolts (1) and 18 mm nuts (2), but do not tighten fully.

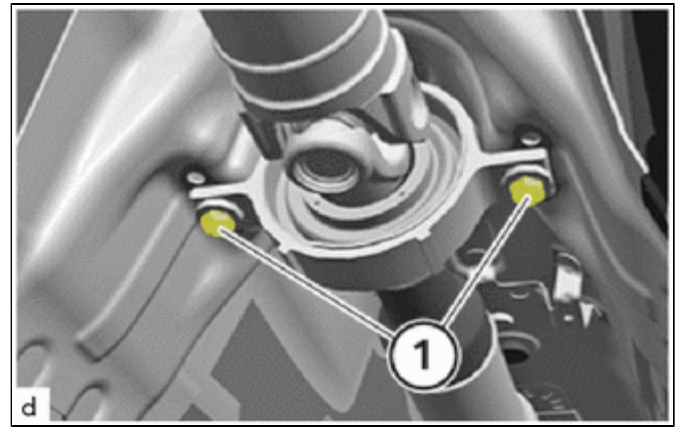


(f) center mount with TOP marking:

(1) The center mount (1) must be installed with the TOP marking at the top in the gearbox tunnel.



(g) Position center mount.



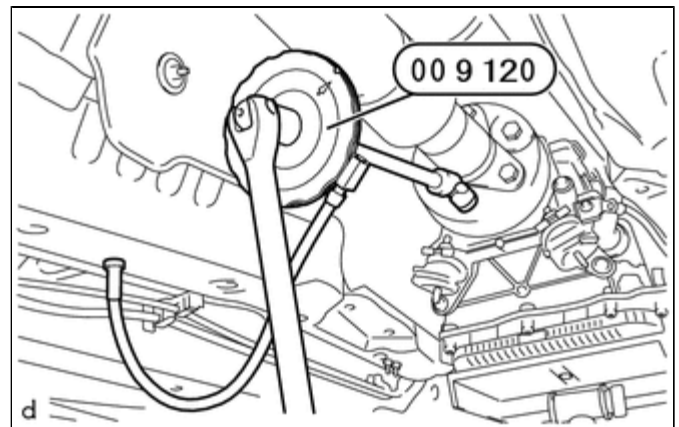
(h) Hand-tighten bolts (1), but do not tighten fully.

(i) Provide counter support for the 18 mm bolts of the flexible coupling on the 18 mm nut and tighten with the 18 mm bolts.

(j) Secure the special tool 0 490 504 (00 9 120) with the special tool 0 495 108 (00 9 130) on the vehicle underbody and continue to 18 mm bolts it in according to the angle of rotation.

Torque:

55 N·m {561 kgf·cm, 41 ft·lbf}



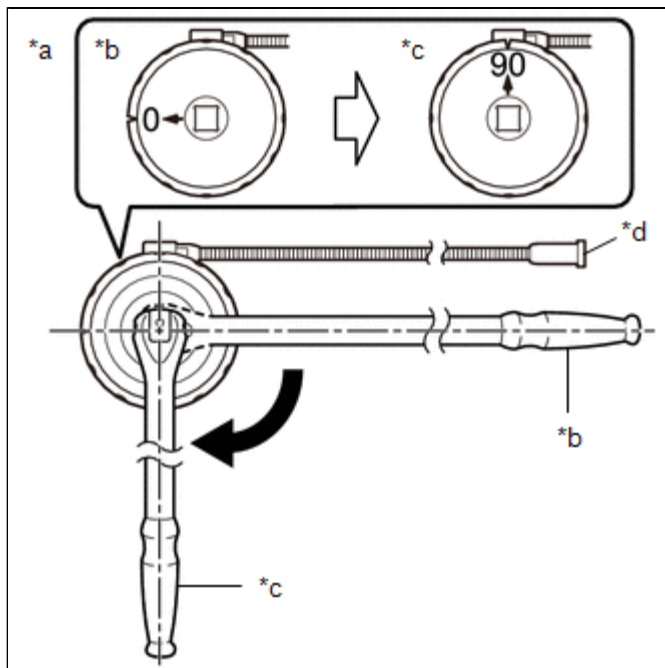
(k) Tighten the 18 mm bolts an additional 90° and counter support them at the 18 mm nuts.

SST: 09900-WA010

NOTICE:

Joining torque and angle of rotation must be observed without fail.

HINT:



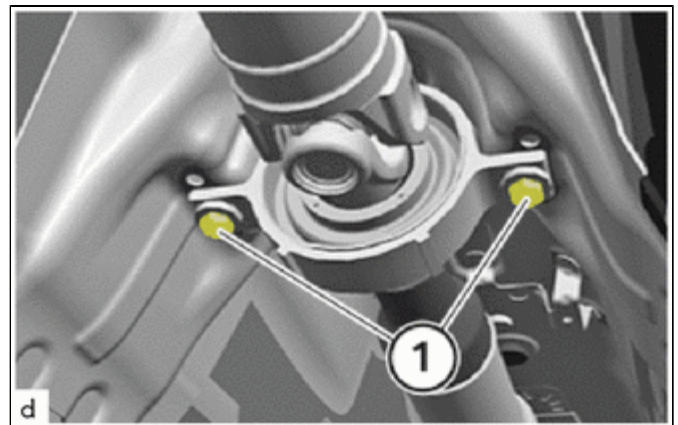
*a	Example
*b	Before Tightening
*c	After Tightening
*d	Magnetic Portion

- The magnetic portion is used to secure the gauge to the vehicle.
- After first adjusting the needle of the gauge to 0°, tighten to the specified angle.
- Perform the work procedure carefully so that the gauge, etc. does not become tilted.

(I) Tighten the bolts (1).

Torque:

21.4 N·m {218 kgf·cm, 16 ft·lbf}

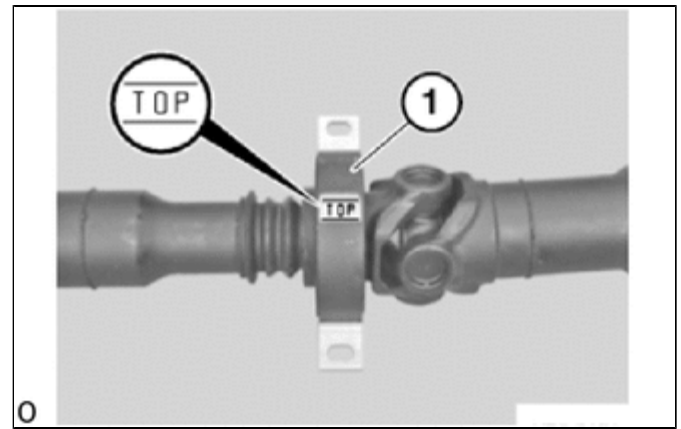


4. INSTALL PROPELLER SHAFT ASSEMBLY WITH CENTER BEARING (for Rear Side)

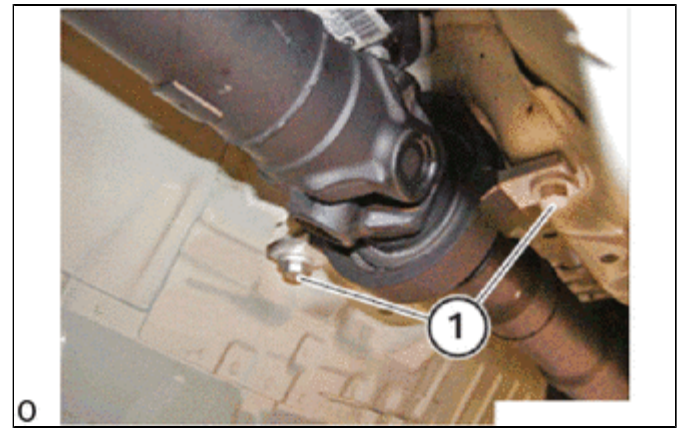
(a) center mount with TOP marking:

(1) The center mount (1) must be installed with the TOP

marking at the top in the gearbox tunnel.



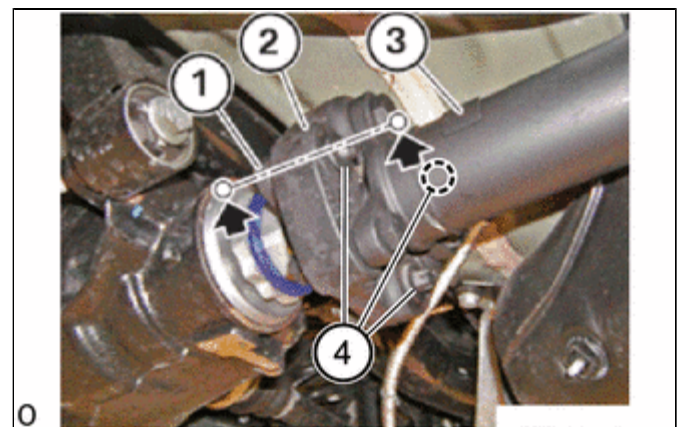
(b) Position center mount.



(c) Position the bolts (1).

(d) Secure the propeller shaft against twisting at the central universal joint using a suitable tool.

(e) Assemble the three-hole flange (1), flexible disc (2) and propeller shaft (3) in the same position that was marked during the removal.



(f) Replace the E16 bolts (4).

(g) Tighten the E16 bolts (4).

Torque:

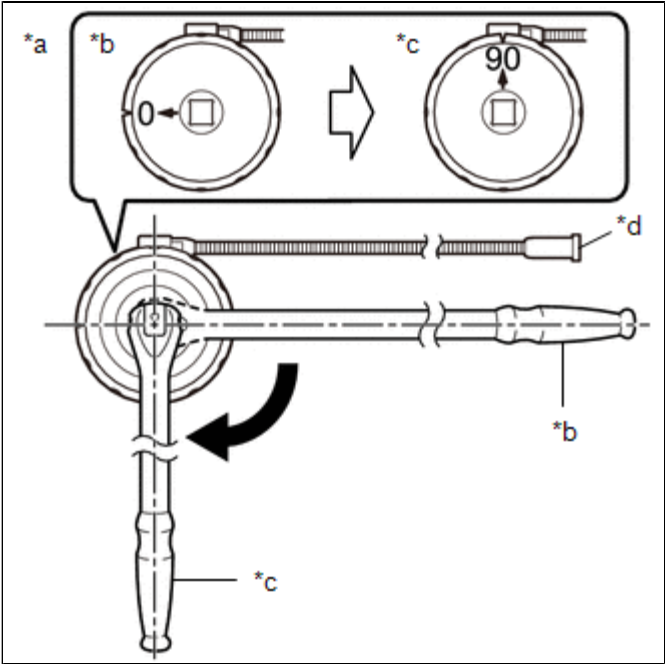
55 N·m {561 kgf·cm, 41 ft·lbf}

(h) Tighten the E16 bolts (4) an additional 90°.

NOTICE:

Jointing torque and angle of rotation must be observed without fail.

HINT:



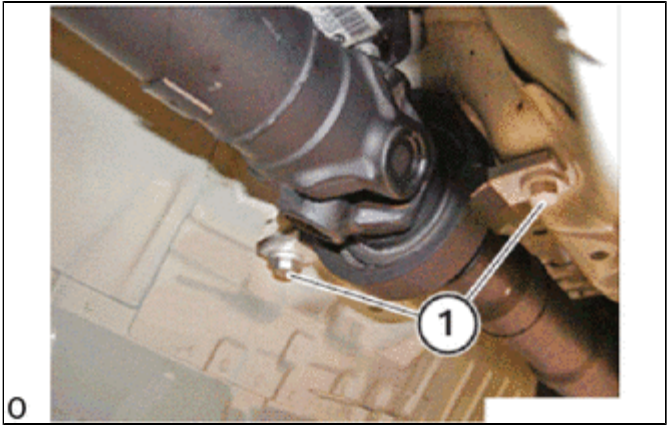
*a	Example
*b	Before Tightening
*c	After Tightening
*d	Magnetic Portion

- The magnetic portion is used to secure the gauge to the vehicle.
- After first adjusting the needle of the gauge to 0°, tighten to the specified angle.
- Perform the work procedure carefully so that the gauge, etc. does not become tilted.

(i) Tighten the bolts (1).

Torque:

21.4 N·m {218 kgf·cm, 16 ft·lbf}



5. INSTALL REAR ENGINE MOUNTING MEMBER (for Front Side)

Click here [INFO](#)

6. INSTALL FRONT NO. 1 FLOOR HEAT INSULATOR

Click here [INFO](#)

7. INSTALL EXHAUST PIPE ASSEMBLY

Click here [INFO](#)

8. INSTALL FRONT FLOOR COVER LH

Click here [INFO](#)

9. INSTALL FRONT FLOOR COVER RH

HINT:

Use the same procedure as for the LH side.

10. INSTALL FRONT FLOOR COVER

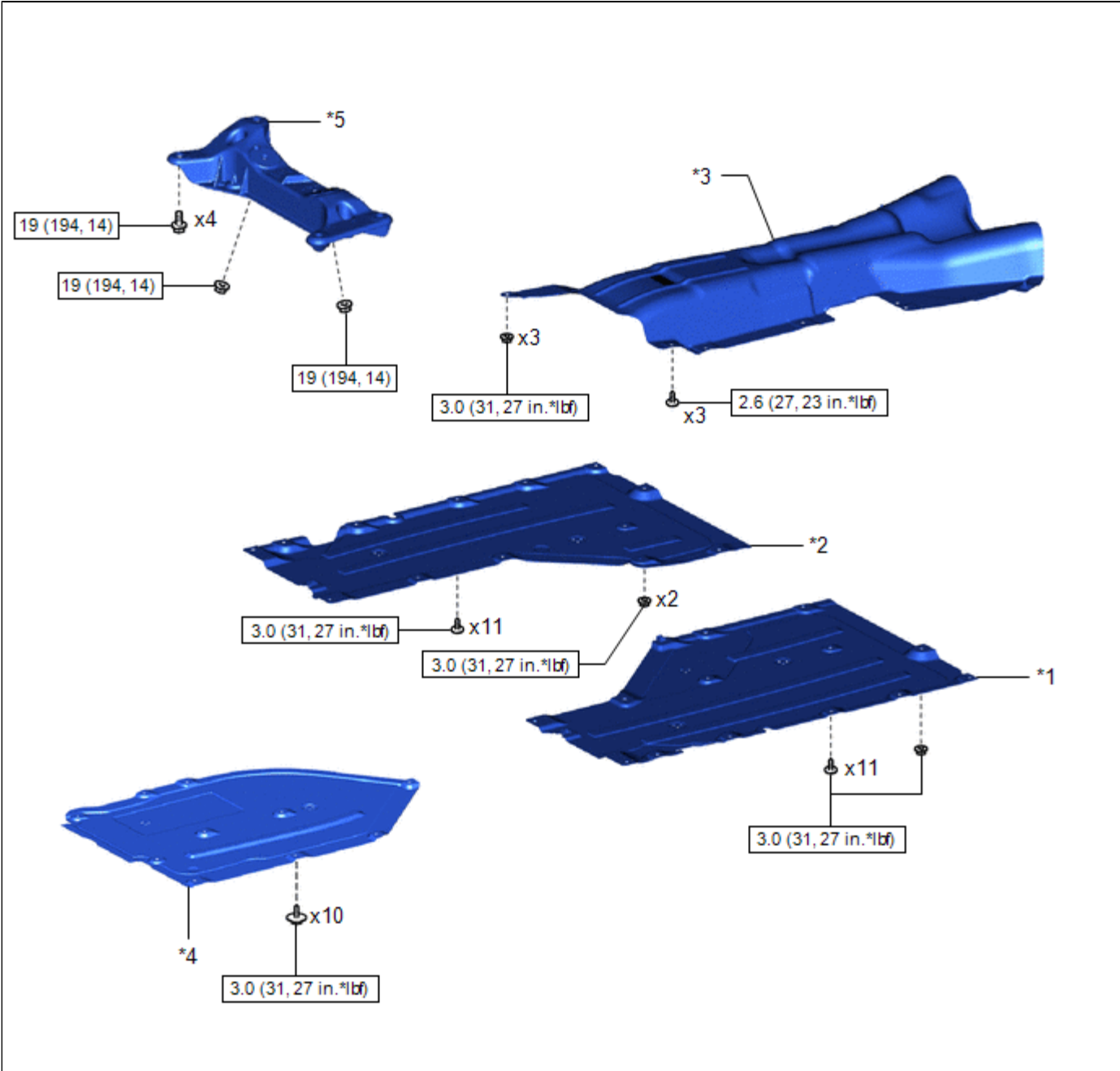
Click here [INFO](#)



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Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: DRIVE SHAFT / PROPELLER SHAFT: PROPELLER SHAFT ASSEMBLY: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

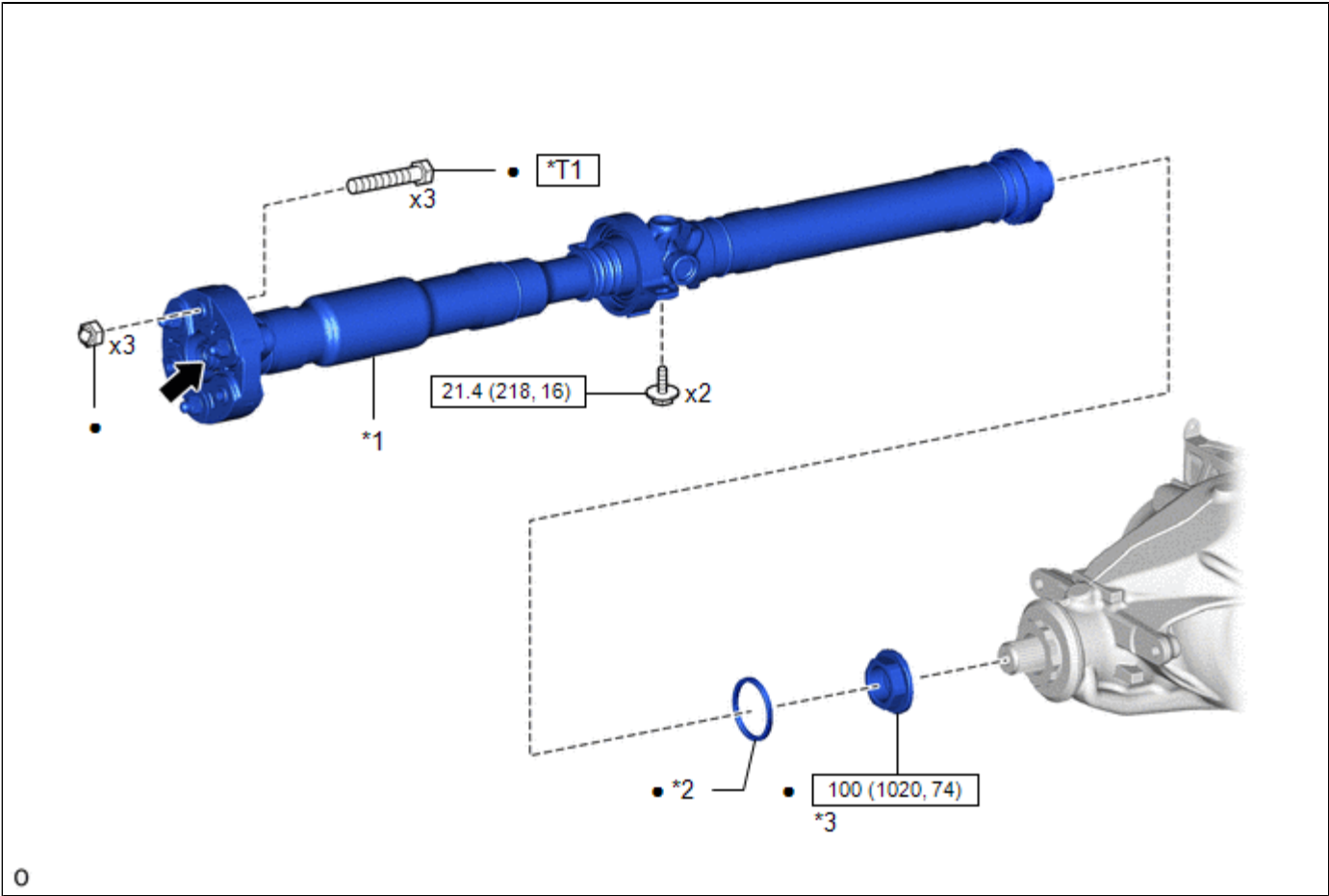
ILLUSTRATION



*1	FRONT FLOOR COVER LH	*2	FRONT FLOOR COVER RH
*3	FRONT NO. 1 FLOOR HEAT INSULATOR	*4	FRONT FLOOR COVER
*5	REAR ENGINE MOUNTING MEMBER	-	-
N*m (kgf*cm, ft.*lbf): Specified			

	torque	-	-
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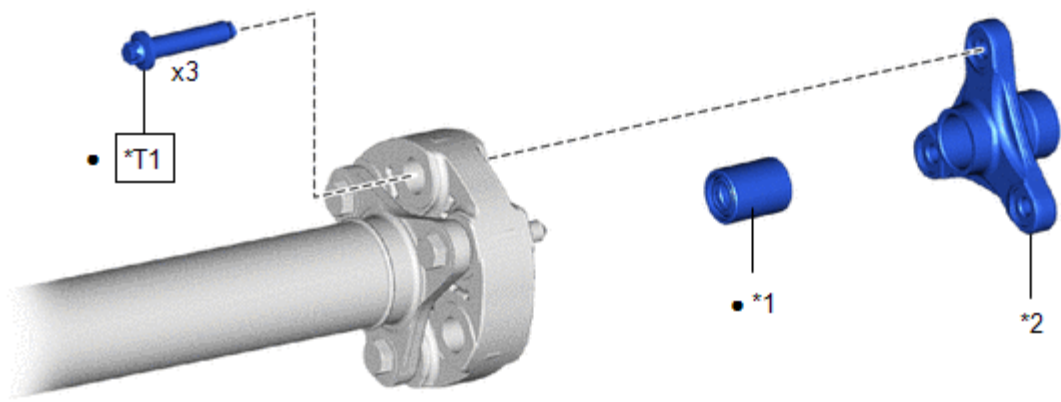
ILLUSTRATION



*1	PROPELLER SHAFT ASSEMBLY WITH CENTER BEARING	*2	RETAINING CLIP
*3	INSERT NUT	-	-
	N*m (kgf*cm, ft.*lbf): Specified torque	●	Non-reusable part
	Lubricant Olistamoly 2 LN 584 LO	-	-
*T1	1st: 55 (561, 41) 2nd: Turn 90°	-	-

ILLUSTRATION

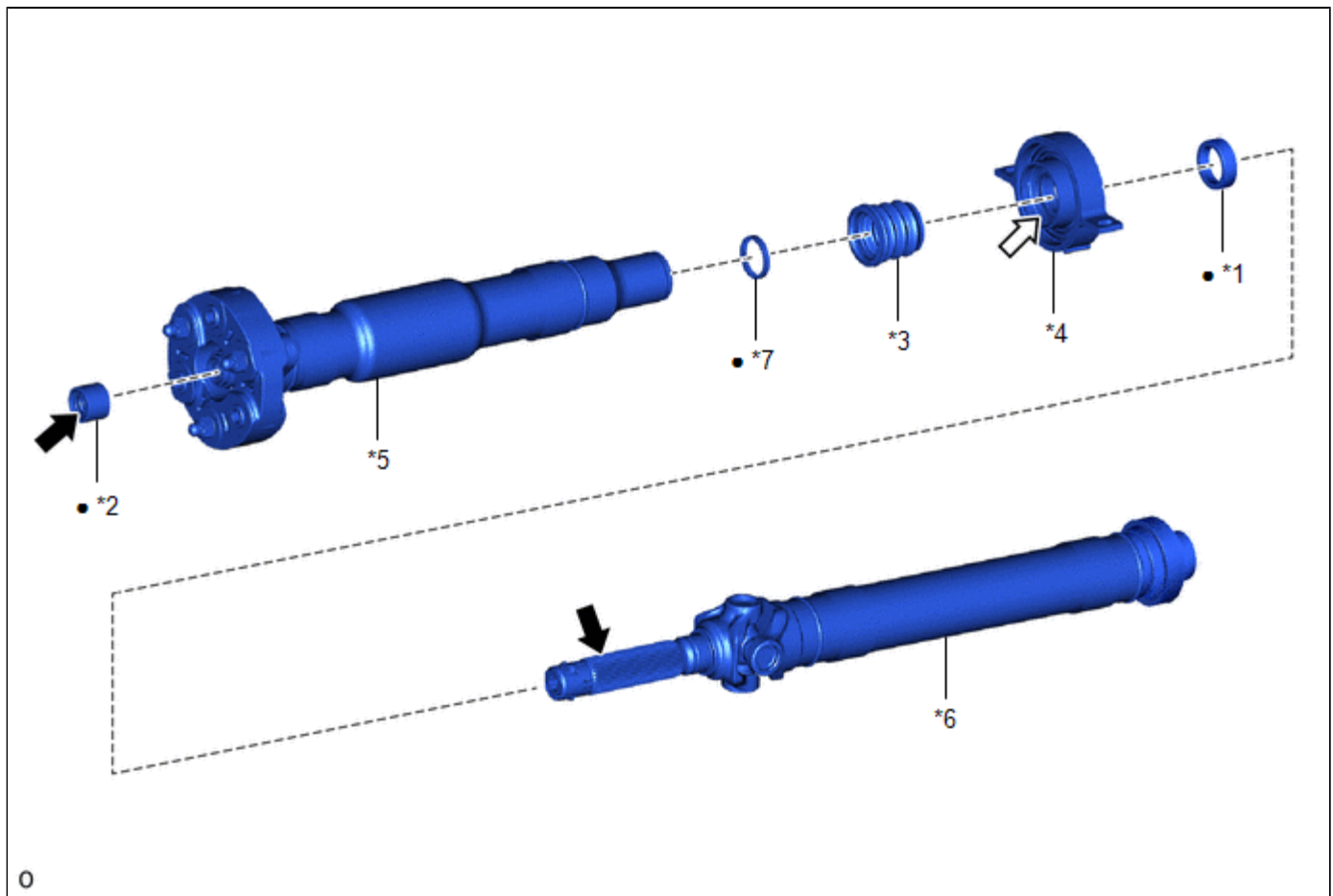
*A



0

*A	for Rear Side	-	-
*1	PROPELLER SHAFT SPLINE SLEEVE	*2	THREE-HOLE FRANGE
	N*m (kgf*cm, ft.*lbf): Specified torque	●	Non-reusable part
	Lubricant Olistamoly 2 LN 584 LO	-	-
*T1	1st: 55 (561, 41) 2nd: Turn 90°	-	-

ILLUSTRATION



*1	CENTER NO. 1 SUPPORT BEARING	*2	PROPELLER SHAFT SPLINE SLEEVE
*3	REAR PROPELLER SHAFT BOOT	*4	CENTER NO. 1 SUPPORT
*5	FRONT PROPELLER SHAFT ASSEMBLY	*6	REAR PROPELLER SHAFT ASSEMBLY
*7	CLAMPING RING	-	-
•	Non-reusable part	➡	Lubricant Olistamoly 2 LN 584 LO
➡	Assembly aid	-	-

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDD
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: DRIVE SHAFT / PROPELLER SHAFT: PROPELLER SHAFT ASSEMBLY: REMOVAL; 2020 MY Supra [03/2019 -]		

REMOVAL

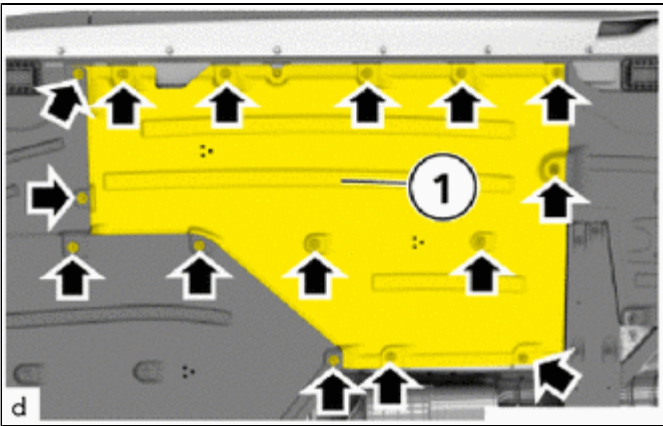
PROCEDURE

1. REMOVE FRONT FLOOR COVER

Click here [INFO](#)

2. REMOVE FRONT FLOOR COVER LH

(a) Unscrew all screws and nuts (arrows).



(b) Remove the front floor cover LH (1).

3. REMOVE FRONT FLOOR COVER RH

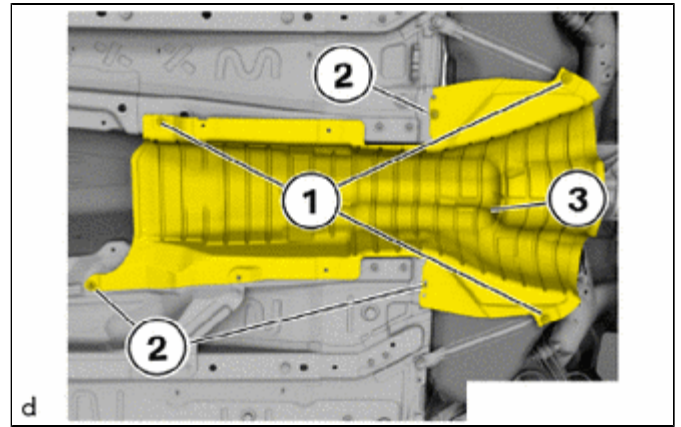
HINT:
Use the same procedure as for the LH side.

4. REMOVE EXHAUST PIPE ASSEMBLY

Click here [INFO](#)

5. REMOVE FRONT NO. 1 FLOOR HEAT INSULATOR

(a) Loosen screws (1).



(b) Unscrew the sheet metal nuts (2).

(c) Remove the front No. 1 floor heat insulator of the tank (3).

6. REMOVE REAR ENGINE MOUNTING MEMBER

Click here [INFO](#)

7. REMOVE PROPELLER SHAFT ASSEMBLY WITH CENTER BEARING

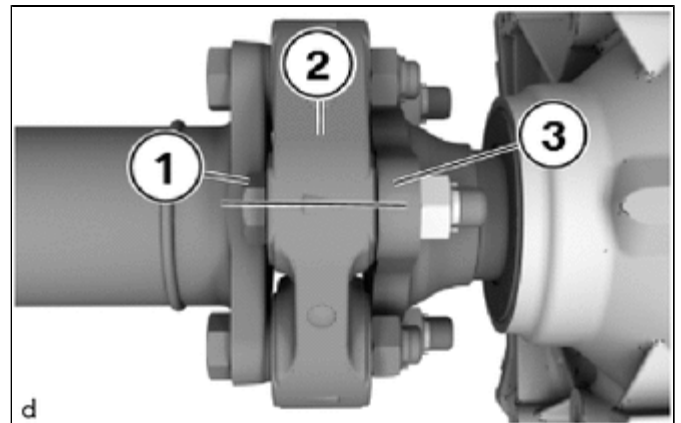
NOTICE:

- Damage to propeller shaft assembly during removal.
- Non-observance of the removal guidelines for the propeller shaft assembly on the rear axle differential may cause severe damage.
 - Do not disassemble the three-hole flange, flexible coupling and propeller shaft assembly. The three-hole flange to the rear axle differential is balanced with the flexible coupling and propeller shaft assembly.
 - Loosen the insert nut against the direction of travel in clockwise direction. The propeller shaft assembly must be loosened on the insert nut only and exclusively in the direction of rotation otherwise the anti-twist lock of the bi-hexagonal flange nut is damaged.
 - In the event of a damaged anti-twist lock on the bi-hexagonal flange nut: Replace the rear axle differential.

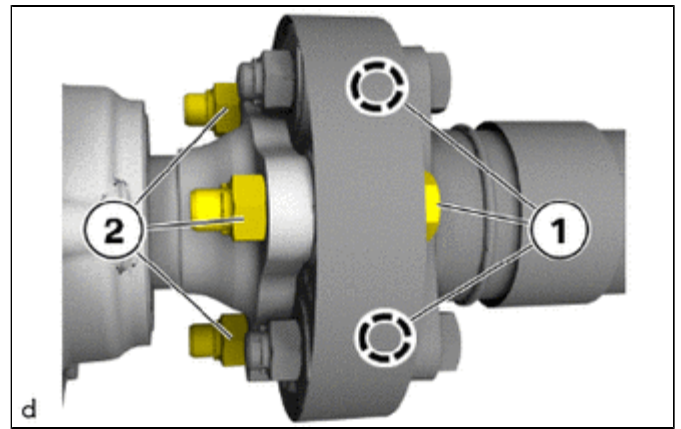
(a) Mark the installation position of the bolt connection (1), the flexible coupling (2) and the three-hole flange (3) on the same level.

HINT:

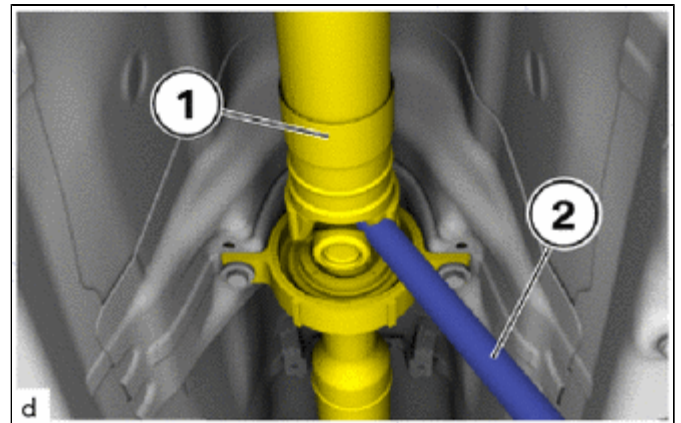
The mark makes it possible for the propeller shaft assembly with center bearing to be installed again in the same position. This should prevent a humming noise from the drive train during driving.



(b) Release 18 mm bolts (1) and counter the 18 mm nuts (2).



(c) Secure the propeller shaft assembly with center bearing (1) on the center universal joint with a suitable tool (2) to protect it from twisting.



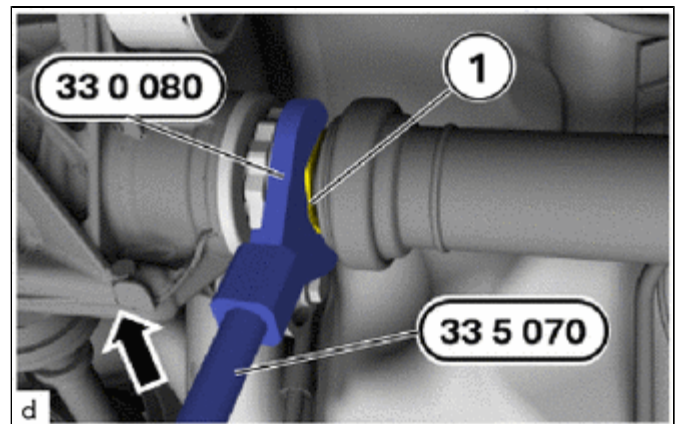
(d) Release insert nut (1) in direction of arrow using the special tools 0 496 959 (33 0 080) and 0 495 554 (33 5 070).

SST: 09900-WA040

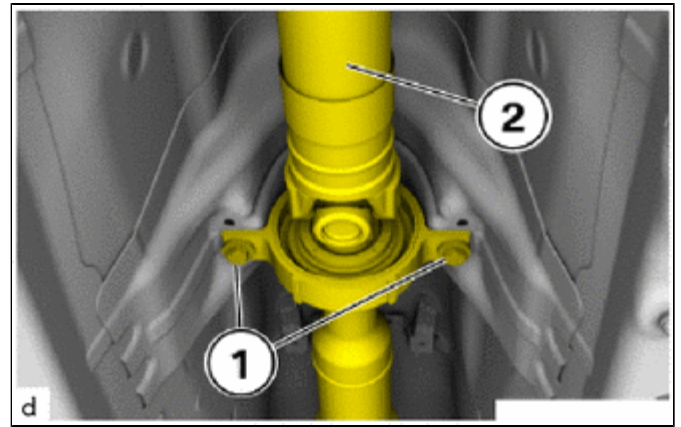
SST: 09500-WA170

NOTICE:

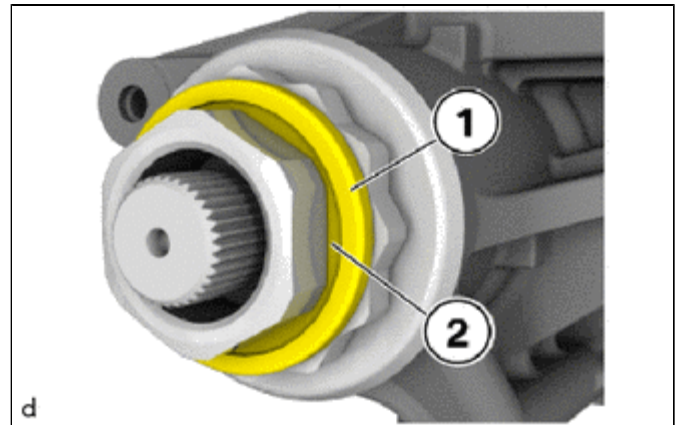
- Damage to rear axle differential.
- Non-observance of the removal and installation guidelines may cause severe damage to the rear axle differential.
 - Do not use the double hexagon head flange nut as counter support.



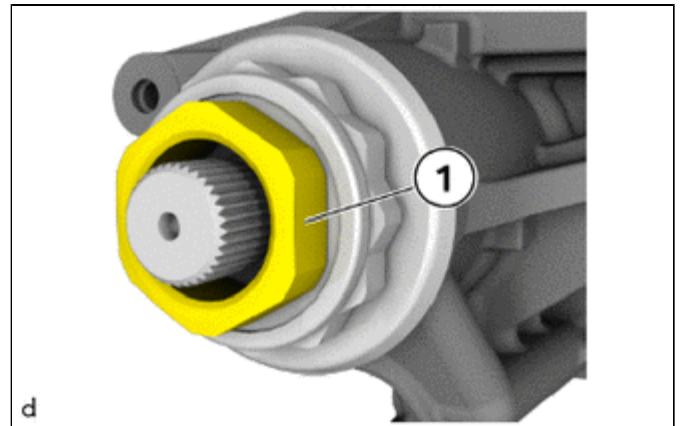
(e) Release 13 mm bolts (1) and remove the propeller shaft assembly with center bearing (2).



(f) Remove retaining clip (1) and the seal (2).



(g) Remove insert nut (1).



Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDF
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: DRIVE SHAFT / PROPELLER SHAFT: PROPELLER SHAFT ASSEMBLY: DISASSEMBLY; 2020 MY Supra [03/2019 -]		

DISASSEMBLY

PROCEDURE

1. REMOVE PROPELLER SHAFT SPLINE SLEEVE

(a) for Front Side:

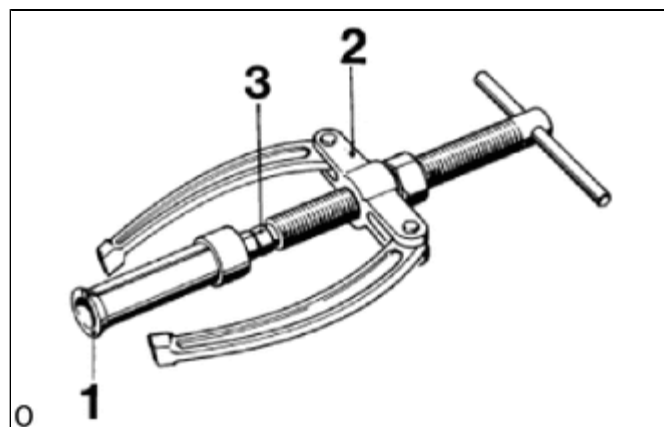


(1) Prepare special tool 2 450 247.

SST: 09300-WA190

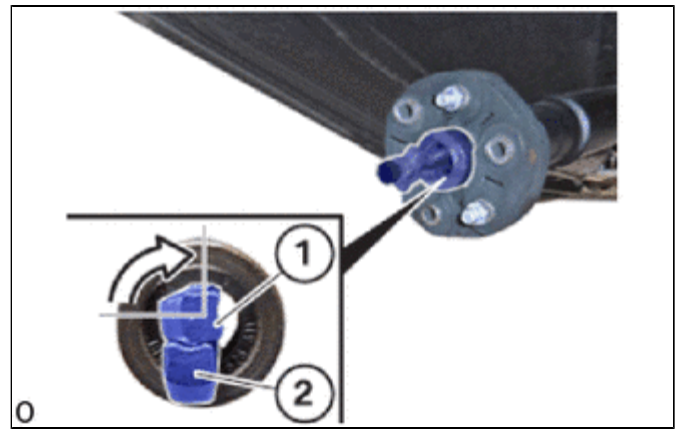
(2) Prepare special tool 0 490 497 (00 8 550).

SST: 09300-WA200

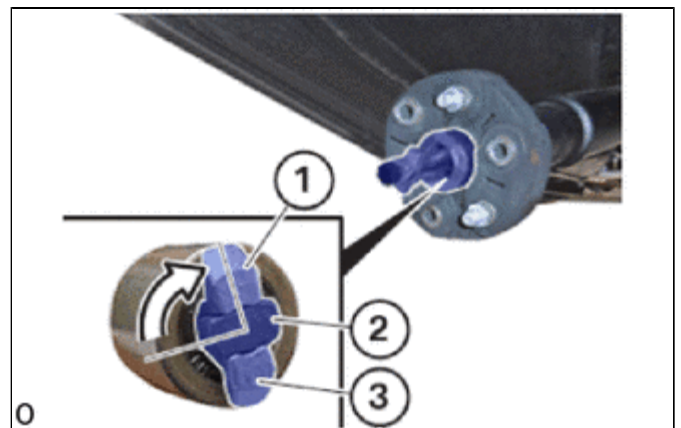


(3) Insert pin (1) and the pin (2) of the special tool 2 450 247 in the propeller shaft spline sleeve of the propeller shaft assembly.

SST: 09300-WA190



(4) Turn pin (1) by 90° in relation to pin (2).



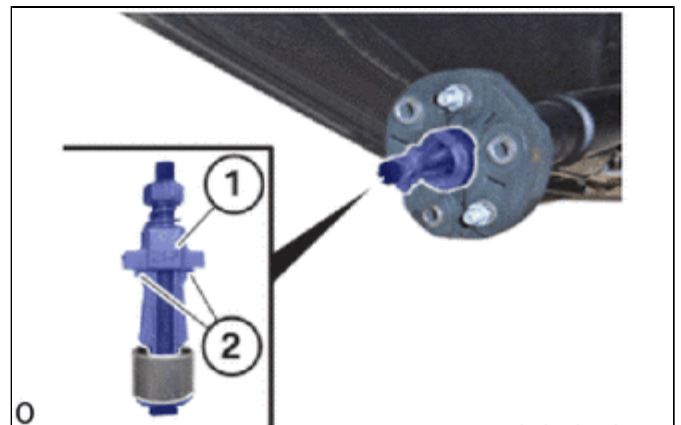
(5) Insert the pin (2) between pins (1) and (3) of the special tool 2 450 247 in the propeller shaft spline sleeve of the propeller shaft assembly.

SST: 09300-WA190

(6) Lock the special tool 2 450 247 by turning the sleeve (1).

SST: 09300-WA190

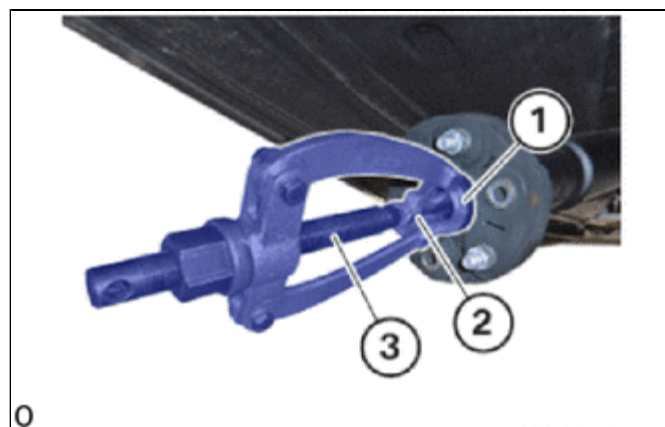
1. The pins (2) are retained by the sleeve (1).



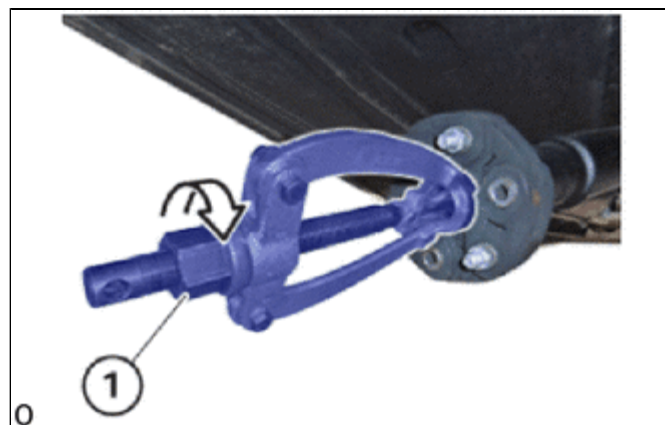
(7) Install the guide sleeve (1).

(8) Bolt special tool 0 490 497 (00 8 550) to special tool 2 450 247 (2) and brace on the guide sleeve (1).

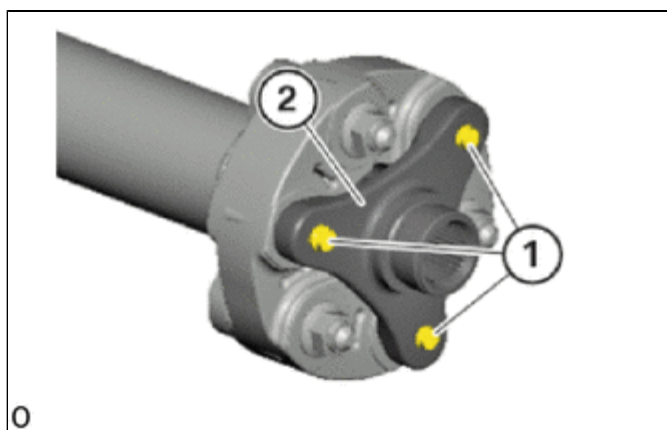
SST: 09300-WA200



(9) Turn nut (1) in direction of arrow and pull out the propeller shaft spline sleeve.



(b) for Rear Side:



(1) Remove the E16 bolts.

(2) Remove the three-hole flange (2)

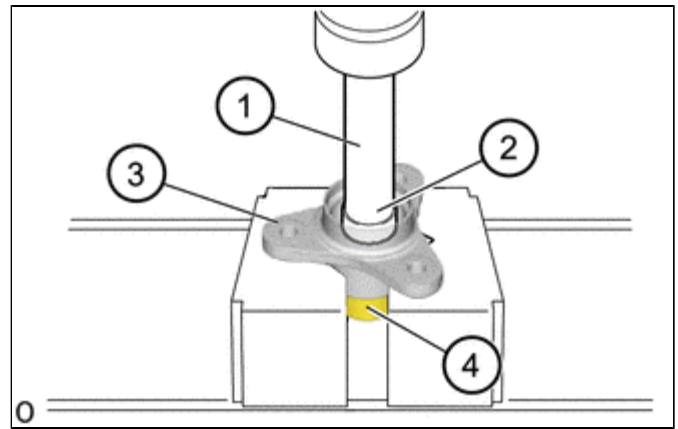
(3) Press the propeller shaft spline sleeve (4) out of the three-hole flange (4) with the SST (1) and (2) in a press.

SST: 09950-70010

09951-07100

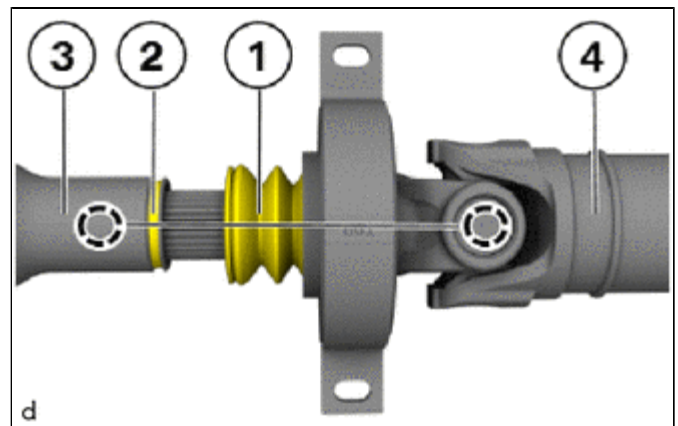
SST: 09950-60011

09951-00250



2. REMOVE REAR PROPELLER SHAFT BOOT

(a) Pull off the rear propeller shaft boot (1) and the groove (2).

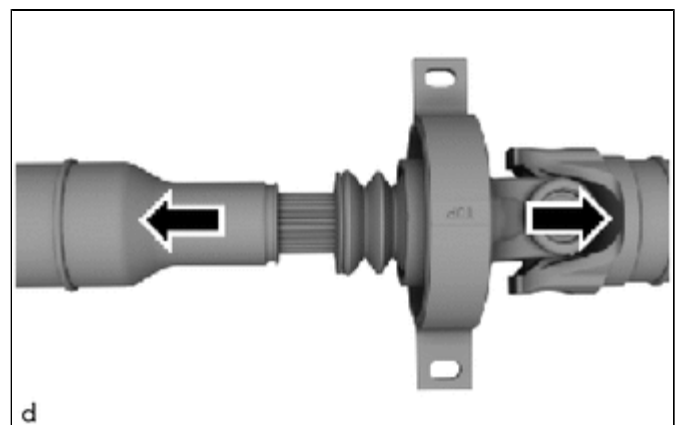


(b) Mark the alignment of the installation positions of the front propeller shaft assembly (3) and the rear propeller shaft assembly (4).

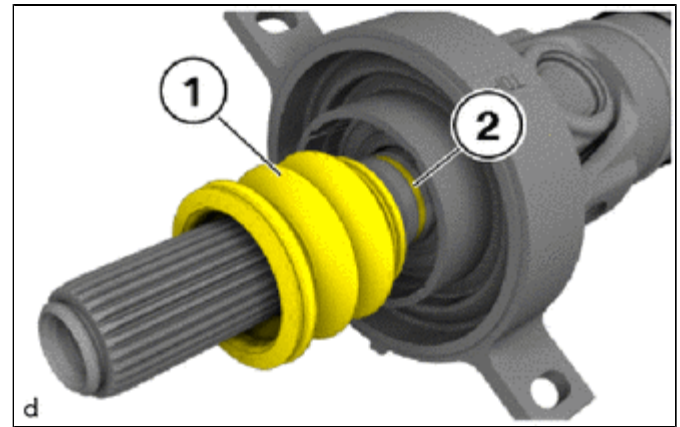
HINT:

The identification allows the front and rear propeller shaft assemblies to be installed at the same position. This guarantees that the propeller shaft assembly will once again be balanced within the system following installation.

(c) Pull apart the front and rear propeller shaft assemblies in the directions of the arrows.



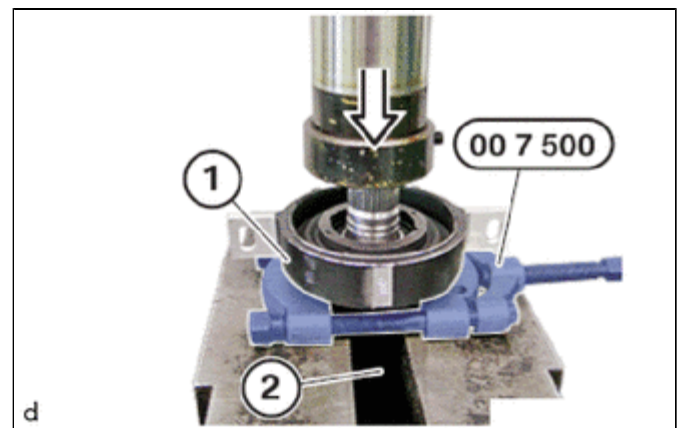
- (d) Release the rear propeller shaft boot (1) from the groove (2) using a screwdriver and pull it off over the longitudinal splines.



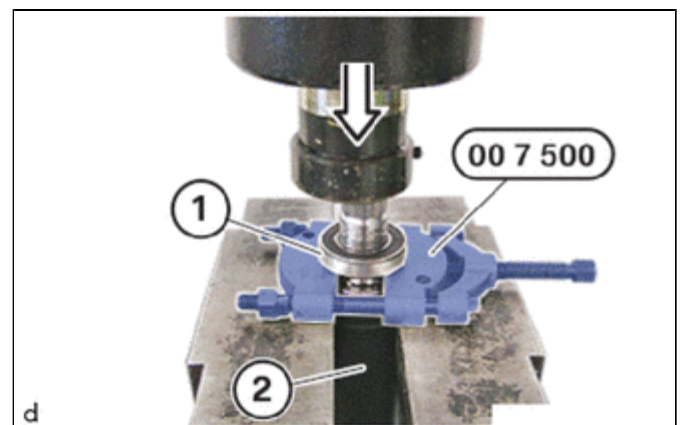
3. REMOVE CENTER NO. 1 SUPPORT BEARING ASSEMBLY

- (a) Install the special tool 0 490 482 (00 7 500) between the center No. 1 support bearing assembly (1) and the rear propeller shaft assembly (2).

SST: 09500-WA230



- (b) Use the hydraulic press to push the center No. 1 support (1) off the rear propeller shaft assembly (2).



- (c) Use the hydraulic press to push the center No. 1 support bearing (1) off the rear propeller shaft assembly (2).

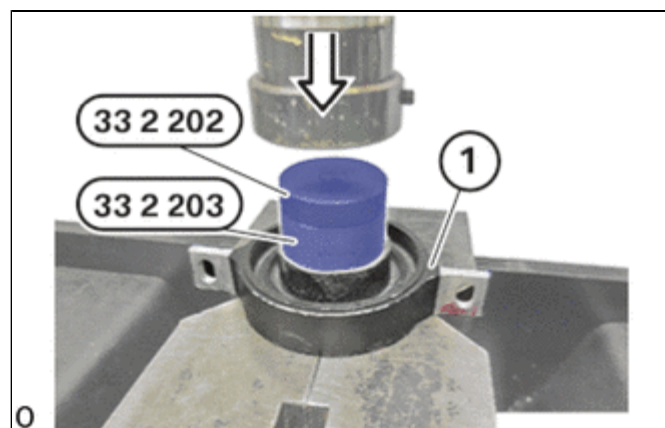
Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDE
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: DRIVE SHAFT / PROPELLER SHAFT: PROPELLER SHAFT ASSEMBLY: REASSEMBLY; 2020 MY Supra [03/2019 -]		

REASSEMBLY

PROCEDURE

1. INSTALL CENTER NO. 1 SUPPORT BEARING

- (a) Coat the rubber-coated bearing seat of the center No. 1 support (1) using Assembly aid.

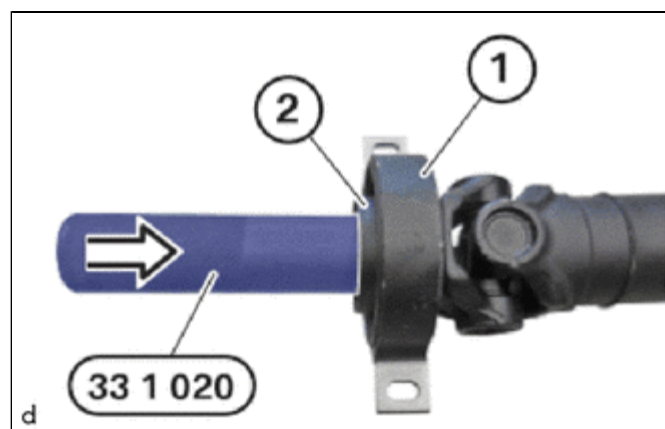


- (b) Press in the grooved a new center No. 1 support bearing using the special tools 0 492 262 (33 2 202) and 0 492 263 (33 3 203) into the center No. 1 support.

SST: 09300-WA160

2. INSTALL CENTER NO. 1 SUPPORT BEARING ASSEMBLY

- (a) Push the center No. 1 support bearing assembly (1) onto the rear propeller shaft.

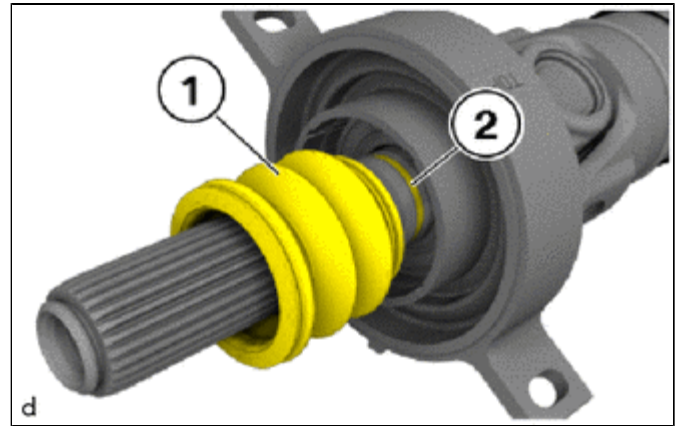


- (b) Collar (2) must point towards the rear propeller shaft assembly in the direction of travel.
(c) Push on the center No. 1 support bearing assembly (1) up to limit position with the special tool 0 492 074 (33 1 020).

SST: 09500-WA200

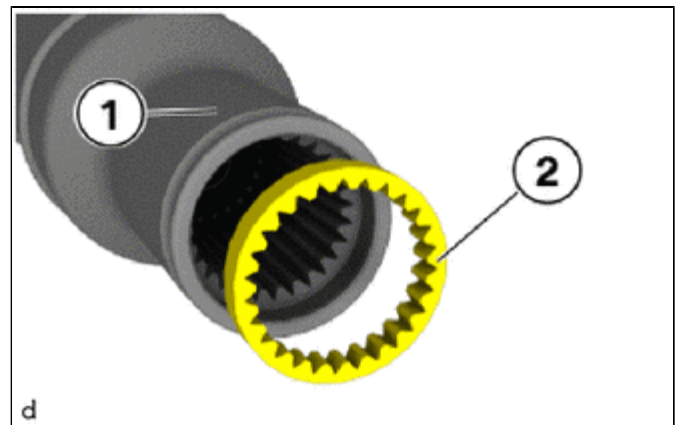
3. INSTALL REAR PROPELLER SHAFT BOOT

- (a) Push in the rear propeller shaft boot (1) onto the groove (2) and make sure it is securely positioned.



- (b) Coat the longitudinal splines of the rear propeller shaft assembly with center bearing with Lubricant Olistamoly 2 LN 584 LO.

- (c) Replace the clamping ring (2).

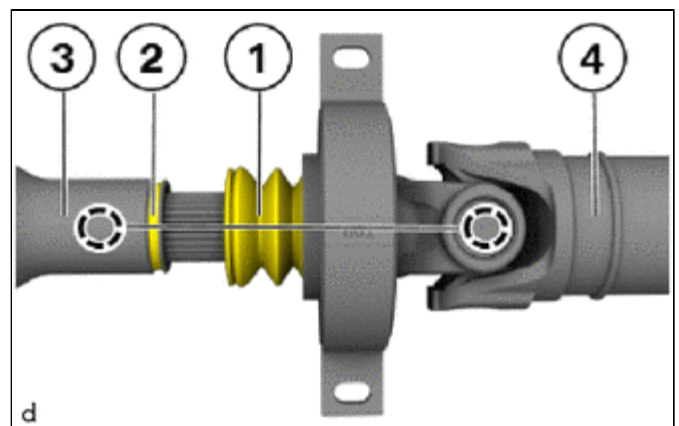


- (d) Install the clamping ring (2) in the rear propeller shaft assembly (1).

- (e) Push the front propeller shaft assembly (3) onto the longitudinal splines of the rear propeller shaft assembly (4) as per the individually applied marks.

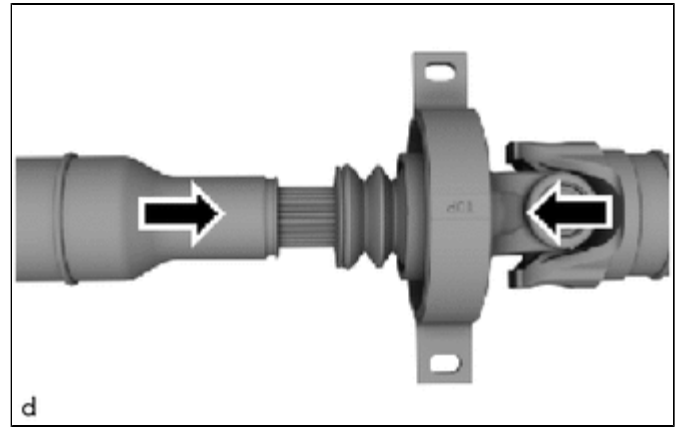
HINT:

The marks must be aligned.



- (f) Push in the rear propeller shaft boot (1) onto the groove (2) and make sure it is securely positioned.

(g) Push the front and rear propeller shaft assemblies together in the directions of the arrows.



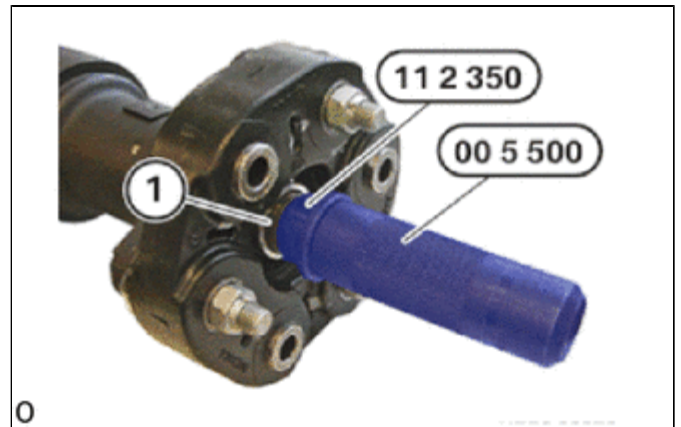
4. INSTALL PROPELLER SHAFT SPLINE SLEEVE

(a) for Front Side:

(1) Propeller shaft spline sleeve (1) into the propeller shaft assembly using the special tools 0 490 873 (11 2 350) and 0 490 475 (00 5 500) (observe protrusion).

SST: 09200-WA260

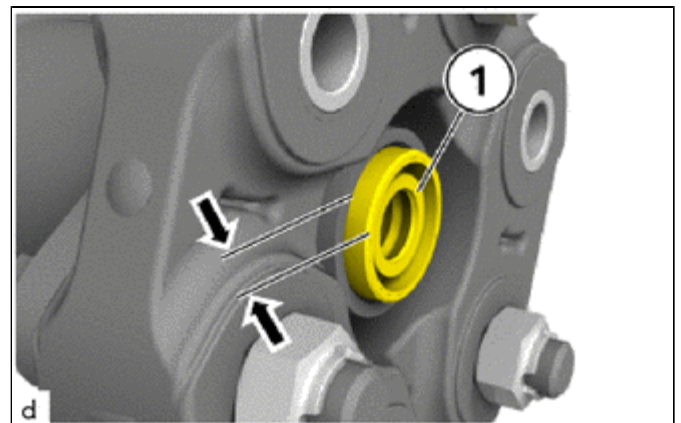
SST: 09500-WA070



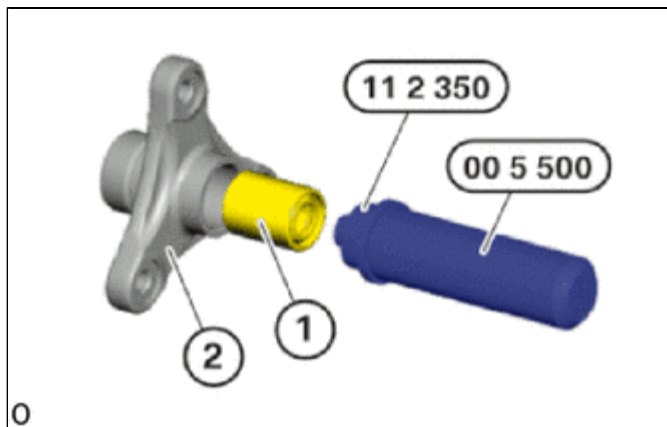
(2) Make sure that the protrusion (arrows) of the propeller shaft spline sleeve (1) is correct.

Centering protrusion:

4 to 6 mm (0.1575 to 0.2362 in.)



(b) for Rear Side:



(1) Propeller shaft spline sleeve (1) into the propeller shaft assembly using the special tools 0 490 873 (11 2 350) and 0 490 475 (00 5 500) (observe protrusion).

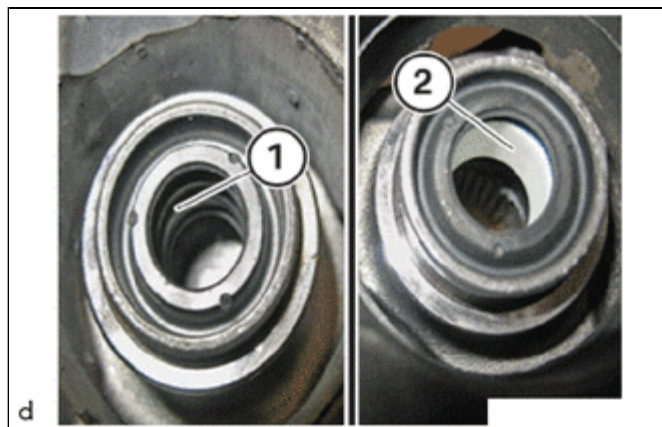
SST: 09200-WA260

SST: 09500-WA070

(2) Apply a thin coat of Lubricant Olistamoly 2 LN 584 LO to the soft centering (1), if necessary.

NOTICE:

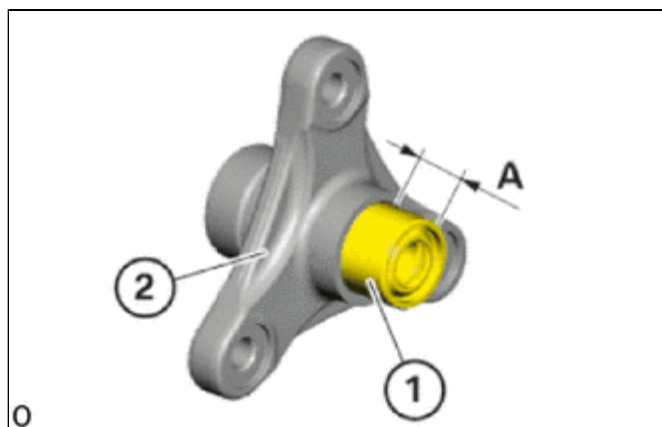
Do not grease the hard centering (2).



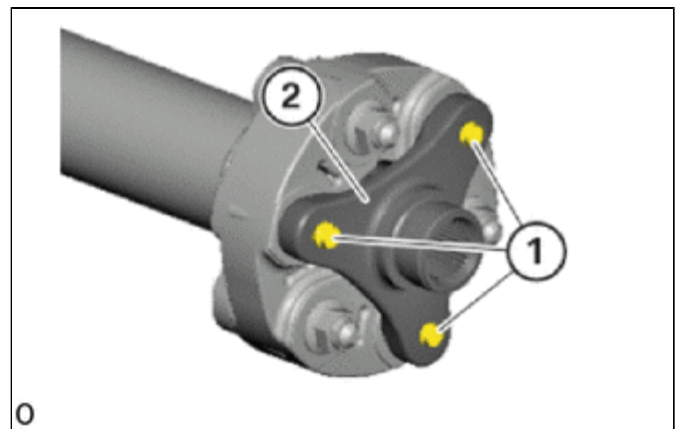
(3) Propeller shaft spline sleeve (1) in the rear of the three-hole flange for the propeller shaft assembly into the three-hole flange (2) until the distance fits.

Centering protrusion:

17.8 mm (0.701 in.)



(4) Install the three-hole frange (2)



(5) Tighten the E16 bolts (1).

Torque:

55 N·m {561 kgf·cm, 41 ft·lbf}

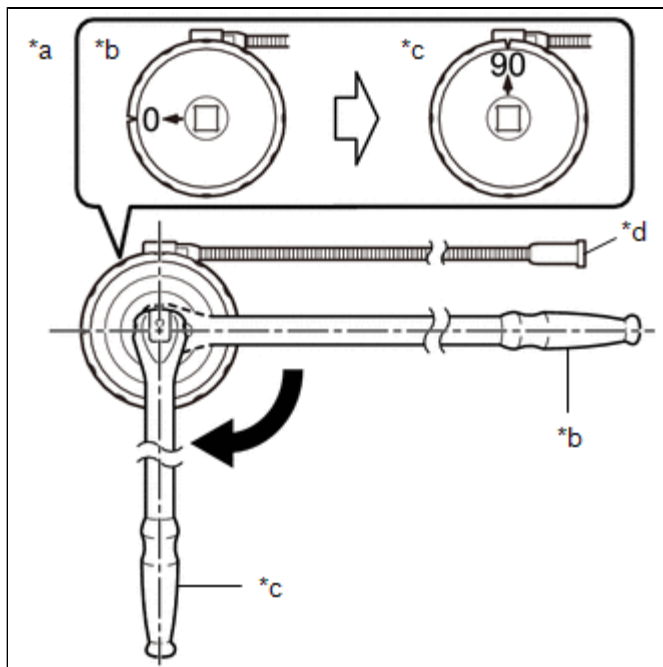
(6) Tighten the E16 bolts (4) an additional 90°.

SST: 09900-WA010

NOTICE:

Jointing torque and angle of rotation must be observed without fail.

HINT:



*a	Example
*b	Before Tightening
*c	After Tightening
*d	Magnetic Portion

- The magnetic portion is used to secure the gauge to the vehicle.
- After first adjusting the needle of the gauge to 0°, tighten to the specified angle.
- Perform the work procedure carefully so that the gauge, etc. does not become tilted.

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDG
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: DRIVE SHAFT / PROPELLER SHAFT: PROPELLER SHAFT ASSEMBLY: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

1. INSTALL PROPELLER SHAFT ASSEMBLY WITH CENTER BEARING

NOTICE:

- Damage to the propeller shaft assembly with center bearing during installation.
- Non-observance of the installation guidelines for the propeller shaft on the rear axle differential may cause severe damage.
 - Always replace the insert nut on the rear axle differential. Screw locking must be available.
 - Strictly observe a minimum hardening time of two hours after having screwed in the insert nut. The hardening time may be longer at lower temperatures.

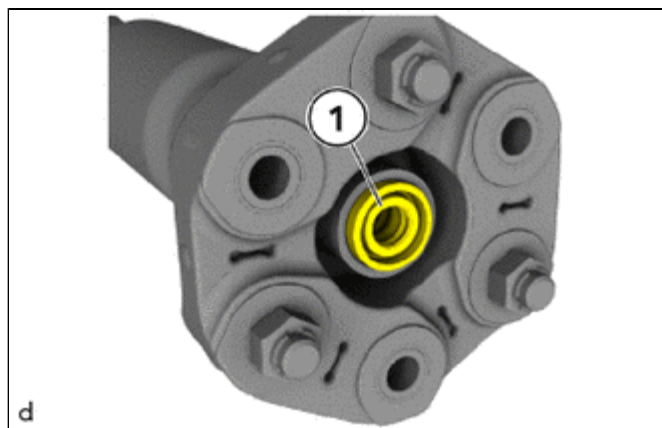
(a) Installation sequence:

- (1) Position propeller shaft assembly with center bearing on automatic transmission.
- (2) Position the propeller shaft assembly with center bearing at the rear axle differential.
- (3) Position center No. 1 support bearing assembly.

(b) Screw-fastening sequence:

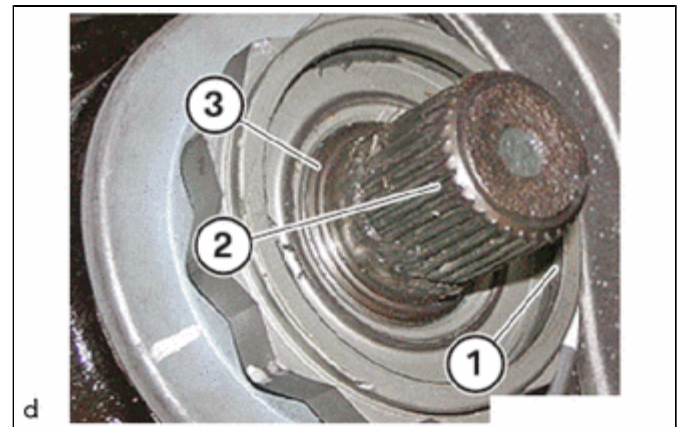
- (1) Insert nut
- (2) Flexible coupling to automatic transmission
- (3) Center No. 1 support bearing assembly

- (c) Check propeller shaft spline sleeve (1) for damage; replace if necessary.



- (d) Coat the propeller shaft spline sleeve (1) of the propeller shaft assembly with center bearing with Lubricant Olistamoly 2 LN 584 LO.

- (e) Clean all residue from the recessed collar (1) of the flange nut and the gearing (2) on the bevel gear (3) and degrease the components.

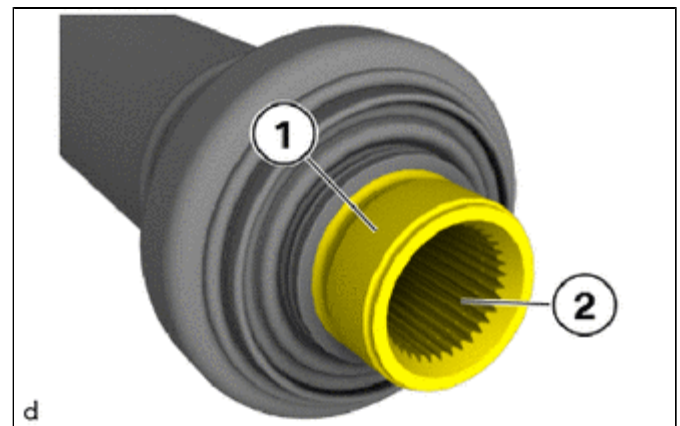


- (f) Coat the collar insert (1) of the propeller shaft assembly with center bearing with Lubricant Olistamoly 2 LN 584 LO.

NOTICE:

- Damage to the output flange.
- Failure to observe the greasing specifications may lead to damage on the output flange.
 - Do not contaminate the thread of the output flange with grease.

- (g) Remove adhesive residue from the thread (1) of the propeller shaft hub and clean it.



- (h) Clean the hub gearing (2) and subsequently coat it with grease.

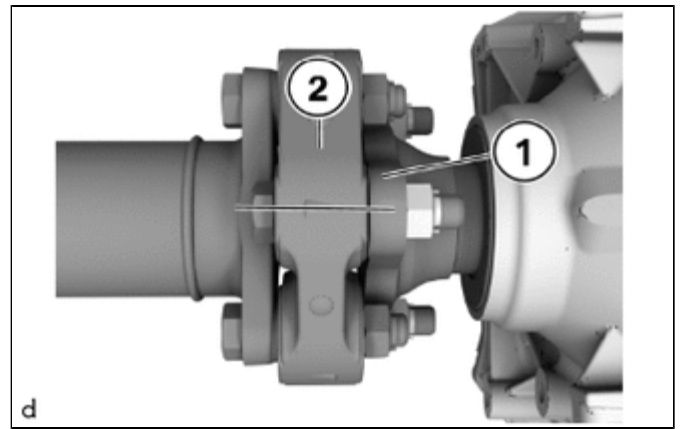
- (i) Replace insert nut.

- (j) Insert the insert nut.

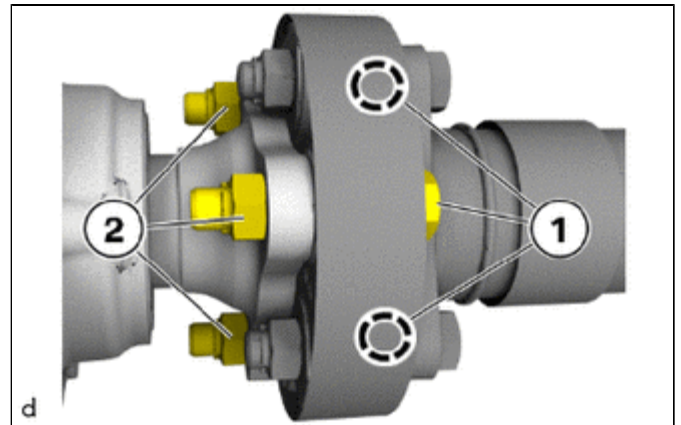
- (k) Replace the seal and the retaining clip.

- (l) Position the seal and the retaining clip.

- (m) In order to avoid a humming noise of the drivetrain after reinstalling the propeller shaft assembly with center bearing: It is essential to reassemble the three-hole flange with the flexible coupling in the highlighted position.

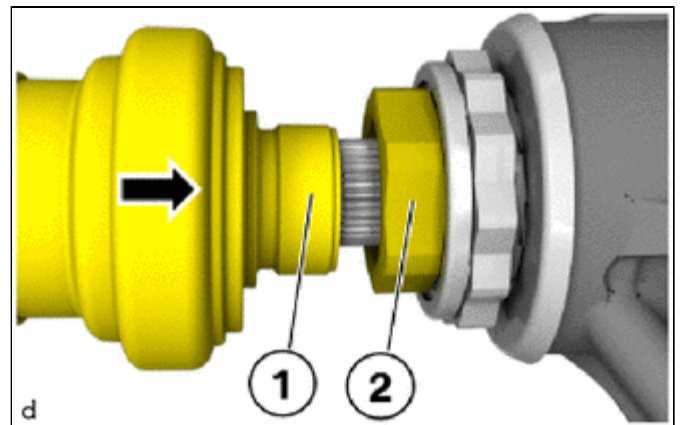


(n) Replace the 18 mm bolts and the 18 mm nuts.



(o) Temporarily install the propeller shaft assembly with center bearing with the 18 mm bolts and 18 mm nuts.

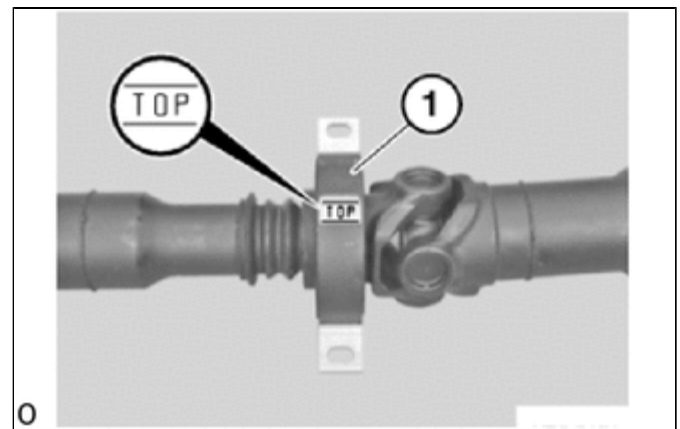
(p) Push the propeller shaft assembly with center bearing (1) in the direction of the arrow against the insert nut (2) up to the limit position.



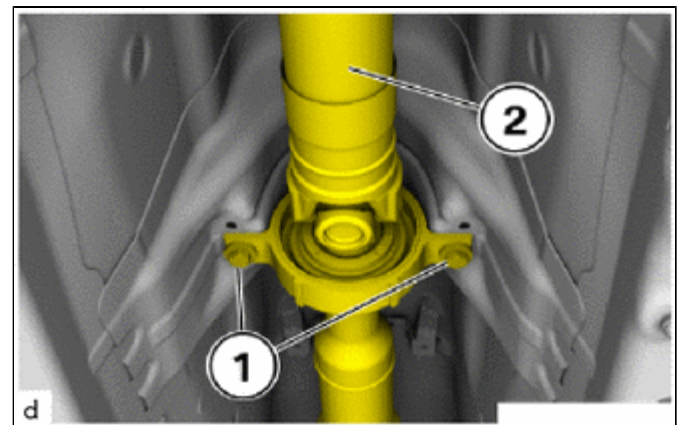
(q) Manually screw on and tighten the insert nut (2) onto the propeller shaft assembly with center bearing (1) by a minimum of two threads.

(r) center mount with TOP marking:

- (1) The center mount (1) must be installed with the TOP marking at the top in the gearbox tunnel.



- (s) Position the propeller shaft assembly with center bearing (2).



- (t) Position bolts (1).

- (u) Secure the propeller shaft assembly with center bearing against twisting at the central universal joint using a suitable tool.

- (v) Tighten the insert nut in anti-clockwise direction using SST 0 496 959 (33 0 080) and SST.

SST: 09900-WA280

SST: 09500-WA170

Torque:

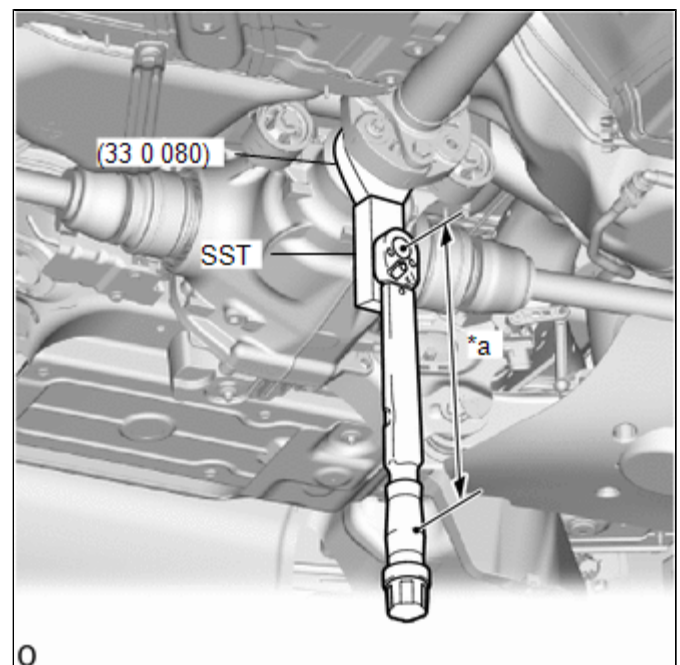
100 N*m (1020 kgf*cm, 74 ft.*lbf)

NOTICE:

- Damage to the flange nut.
- Failure to observe the installation specifications may lead to serious damage to the flange nut and the rear axle differential.
 - Do not use the double hexagon flange nut as counter support.
 - Screw in the insert nut within 5 minutes.

HINT:

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



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

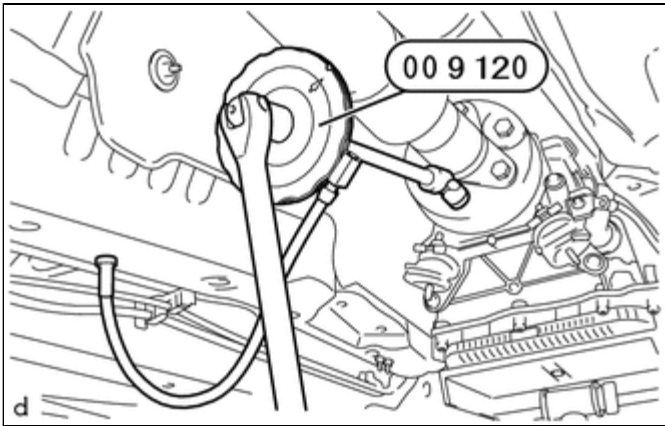
(w) Screw the insert nut within 5 min.

(x) Hold down the 18 mm bolts of the flexible coupling on the 18 mm nuts and tighten over the 18 mm bolts.

SST: 09900-WA010

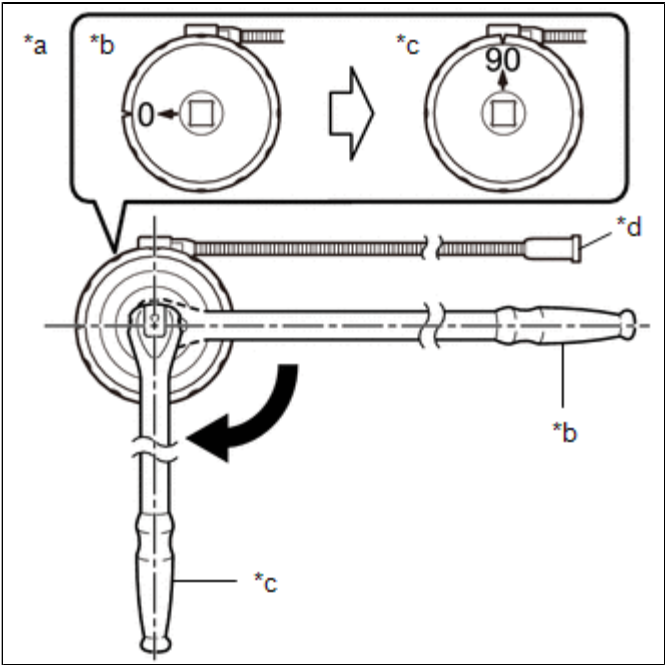
Torque:

55 N·m { 561 kgf·cm, 41 ft·lbf }



(y) Tighten the 18 mm bolts an additional 90° and counter support them at the 18 mm nuts.

HINT:



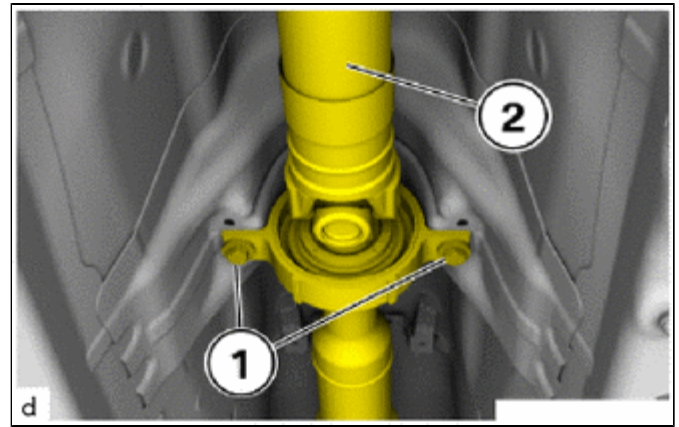
*a	Example
*b	Before Tightening
*c	After Tightening
*d	Magnetic Portion

- The magnetic portion is used to secure the gauge to the vehicle.
- After first adjusting the needle of the gauge to 0°, tighten to the specified angle.
- Perform the work procedure carefully so that the gauge, etc. does not become tilted.

(z) Tighten the bolts (1).

Torque:

21.4 N·m {218 kgf·cm, 16 ft·lbf}

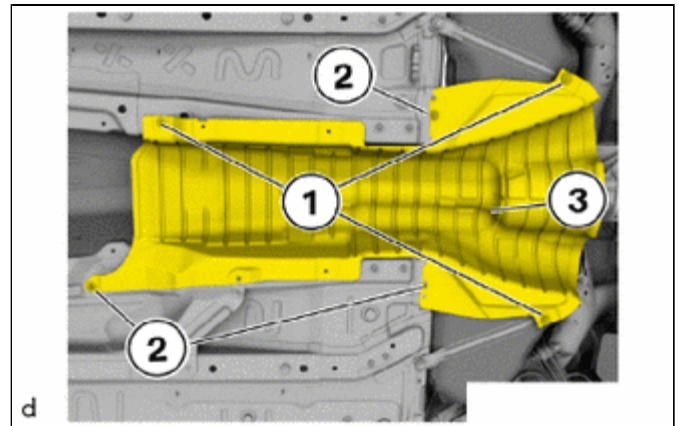


2. INSTALL REAR ENGINE MOUNTING MEMBER

Click here [INFO](#)

3. INSTALL FRONT NO. 1 FLOOR HEAT INSULATOR

(a) Position the front No. 1 floor heat insulator of the tank.



(b) Tighten the sheet metal nuts.

Torque:

3.0 N·m {31 kgf·cm, 27 in·lbf}

(c) Tighten the screws.

Torque:

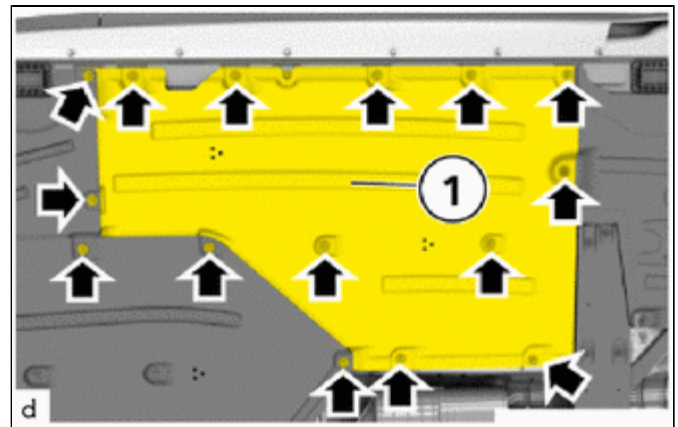
2.6 N·m {27 kgf·cm, 23 in·lbf}

4. INSTALL EXHAUST PIPE ASSEMBLY

Click here [INFO](#)

5. INSTALL FRONT FLOOR COVER LH

(a) Insert the front floor cover LH.



(b) Tighten all screws and nuts.

Torque:

2.6 N·m { 27 kgf·cm, 23 in·lbf }

6. INSTALL FRONT FLOOR COVER RH

HINT:

Use the same procedure as for the LH side.

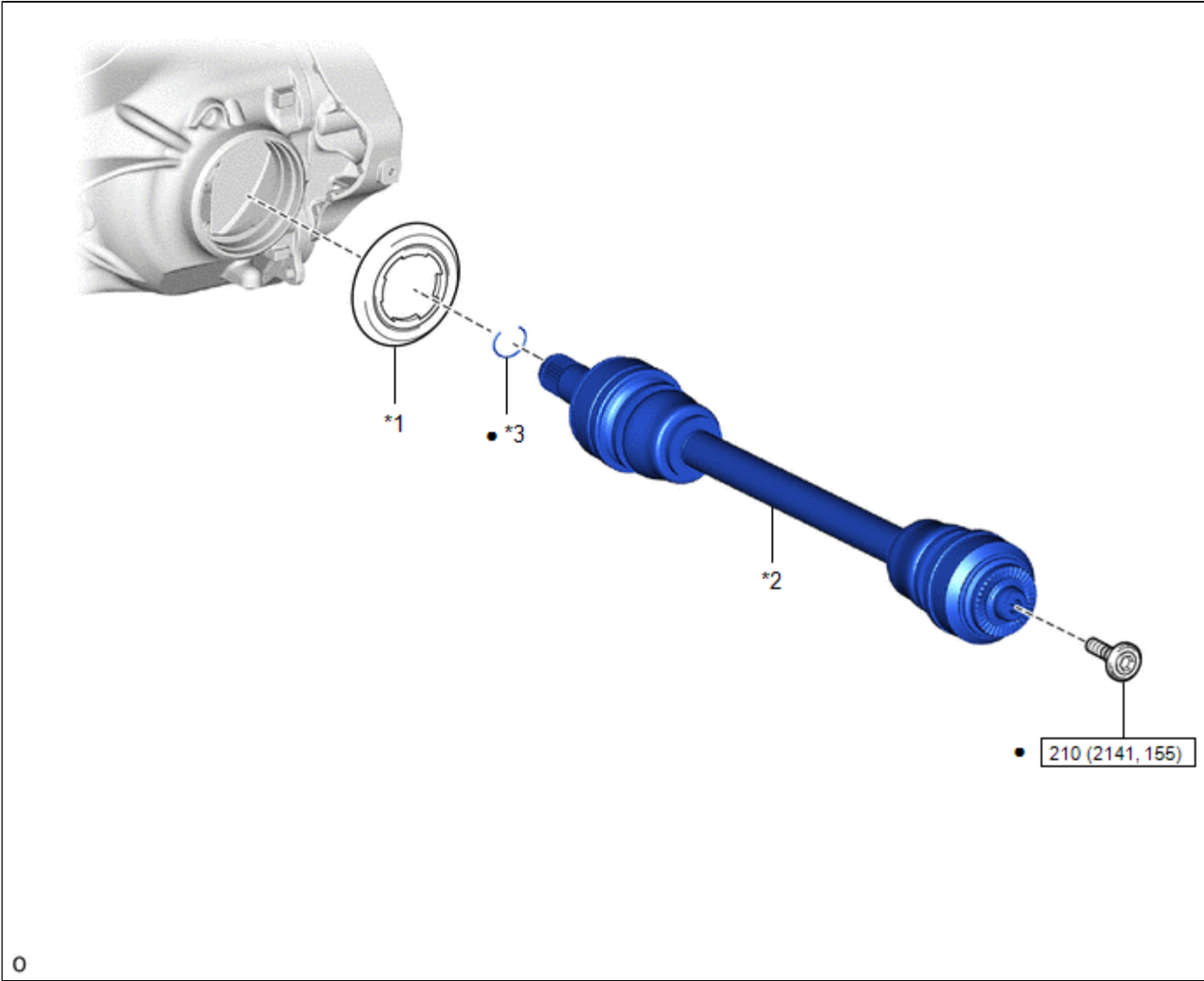
7. INSTALL FRONT FLOOR COVER

Click here [INFO](#)

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCD9
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: DRIVE SHAFT / PROPELLER SHAFT: REAR DRIVE SHAFT ASSEMBLY: COMPONENTS; 2020 MY Supra [03/2019 -]		

COMPONENTS

ILLUSTRATION



*1	DUST DEFLECTOR	*2	REAR DRIVE SHAFT ASSEMBLY
*3	SHAFT SNAP RING (FOR REAR DRIVE SHAFT INBOARD JOINT)	-	-
	N*m (kgf*cm, ft.*lbf): Specified torque	•	Non-reusable part

Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDA
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: DRIVE SHAFT / PROPELLER SHAFT: REAR DRIVE SHAFT ASSEMBLY: 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:

- Damage to rear axle differential.

Failure to comply with the oil specifications can result in serious damage to the rear axle differential.

- After completion of repair work, check the differential oil level in the rear axle differential.
- Use only the approved final drive differential oil.

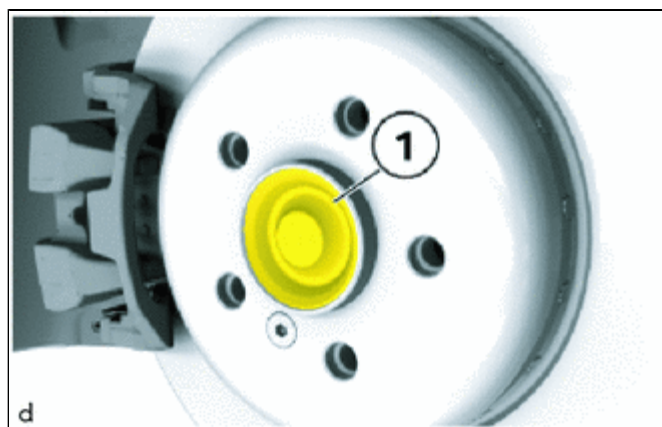
PROCEDURE

1. REMOVE REAR DIFFERENTIAL CARRIER ASSEMBLY

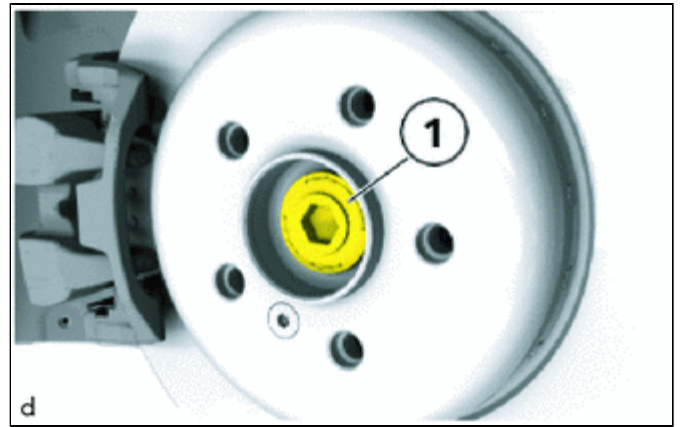
Click here [INFO](#)

2. REMOVE REAR DRIVE SHAFT ASSEMBLY

(a) Remove the sealing cap (1).



(b) Press brake pedal.



(c) Loosen the 17 mm hexagon bolt (1).

(d) Remove the rear drive shaft assembly towards the center of vehicle.

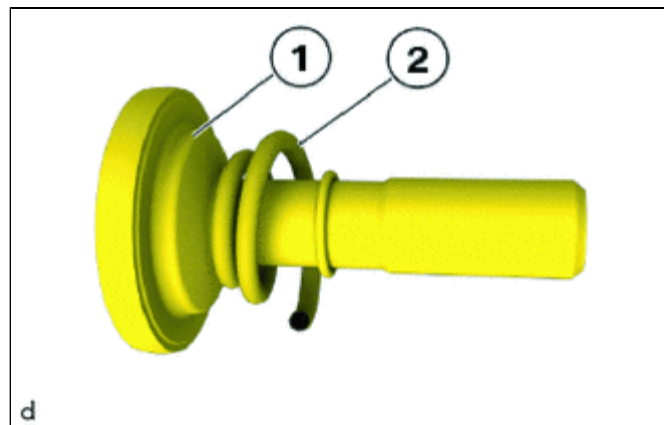
Last Modified: 09-05-2019	6.9:8.0.49	Doc ID: RM100000001JCDB
Model Year Start: 2020	Model: Supra	Prod Date Range: [03/2019 -]
Title: DRIVE SHAFT / PROPELLER SHAFT: REAR DRIVE SHAFT ASSEMBLY: INSTALLATION; 2020 MY Supra [03/2019 -]		

INSTALLATION

PROCEDURE

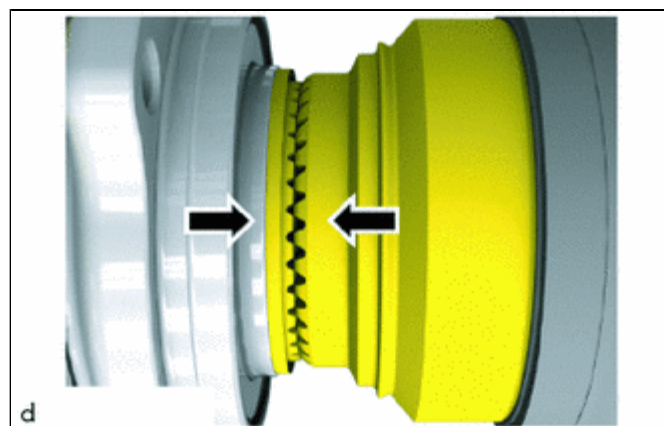
1. INSTALL REAR DRIVE SHAFT ASSEMBLY

- (a) Replace 17 mm hexagon bolt (1) and compression spring (2).



- (b) Position the rear drive shaft assembly on the wheel bearing from the center of the vehicle.
 (c) Hand-tighten the 17 mm hexagon bolt (1) with the compression spring.

- (d) Check whether front gearing is locked tooth in tooth by reciprocally rotating the wheel bearing and the rear drive shaft assembly.



- (e) If positive locking is ensured: Press brake pedal.
 (f) Tighten the 17 mm hexagon bolt.

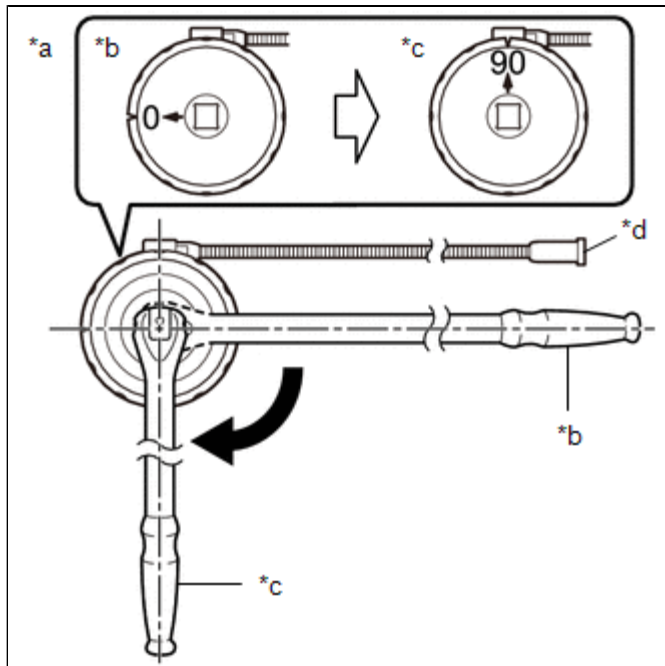
Torque:

210 N·m {2141 kgf·cm, 155 ft·lbf}

- (g) Tighten the 17 mm hexagon bolt an additional 90°.

SST: 09900-WA010

HINT:



*a	Example
*b	Before Tightening
*c	After Tightening
*d	Magnetic Portion

- The magnetic portion is used to secure the gauge to the vehicle.
- After first adjusting the needle of the gauge to 0°, tighten to the specified angle.
- Perform the work procedure carefully so that the gauge, etc. does not become tilted.

(h) Install the sealing cap.

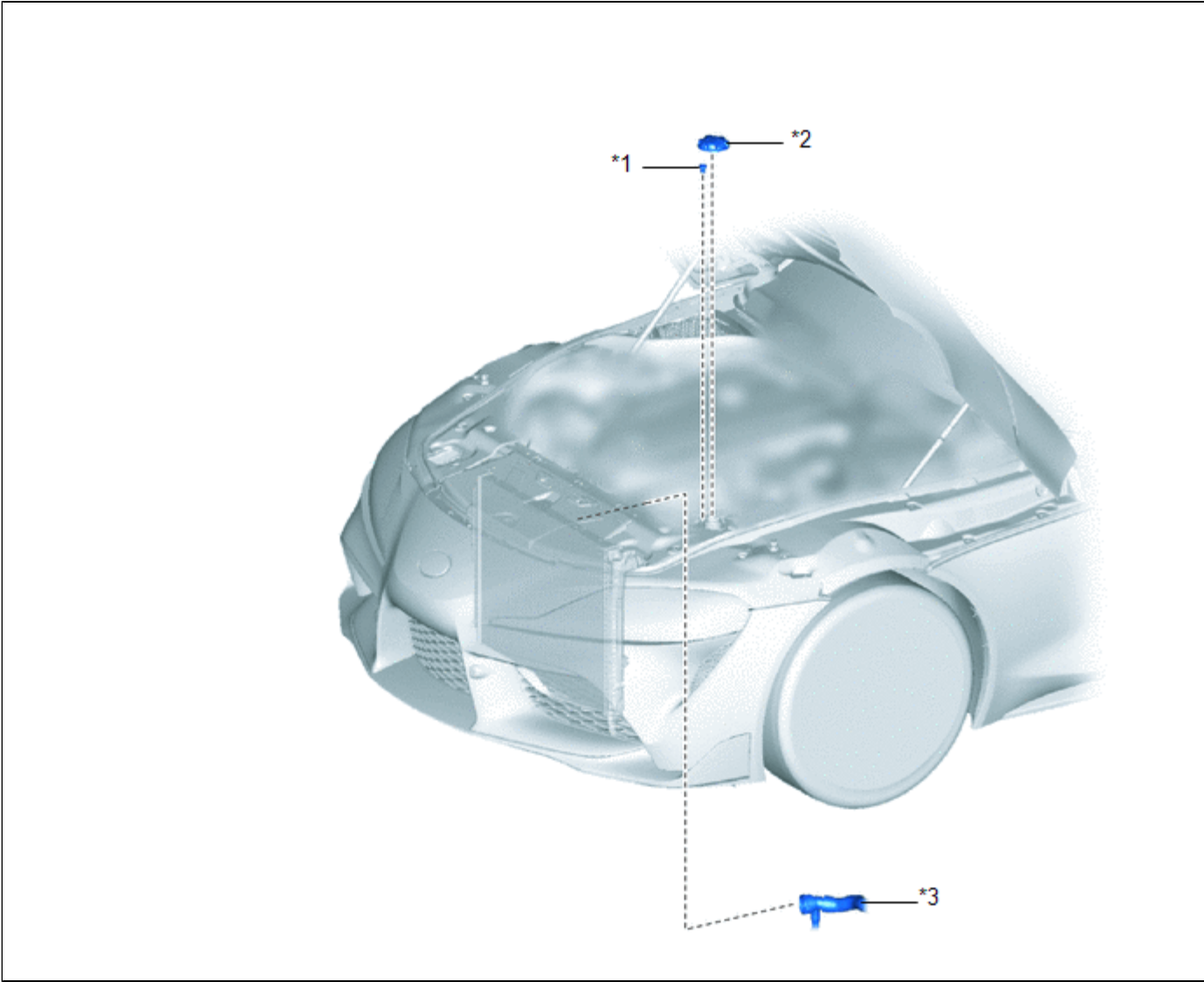
2. INSTALL REAR DIFERENTIAL CARRIER ASSEMBLY

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COMPONENTS

ILLUSTRATION



*1	BLEEDER SCREW	*2	RESERVE TANK CAP SUB-ASSEMBLY
*3	NO. 1 RADIATOR HOSE	-	-

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REPLACEMENT

CAUTION / NOTICE / HINT

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