



# Installation Guide

## 2019-2020 Toyota Supra A90

TOSH90-C



### Parts List:

- (1 ea.) Driveshaft Assembly
- (1 ea.) 108-BMW-R-34 Flange
- (6 ea.) M12X1.75X70 Socket Head Bolt
- (6 ea.) M12 Lock Washer
- (6 ea.) M12X1.75 Hex Nut
- (6 ea.) M10X1.5X60 Socket Head Bolt
- (6 ea.) M10 Lock Washer

### Tools Needed:

- 8mm Socket
- 13mm Socket
- 18mm Socket
- 18mm Crows Foot or 18mm Flex Head Open End Wrench
- E14 Torx Socket
- 10mm Allen Socket
- 8mm Allen Socket
- (Recommended) BMW Differential Nut Tool Part Number 330080
- Transmission Jack

For any questions contact customer service at (800) 564-2244

# Installation Instructions

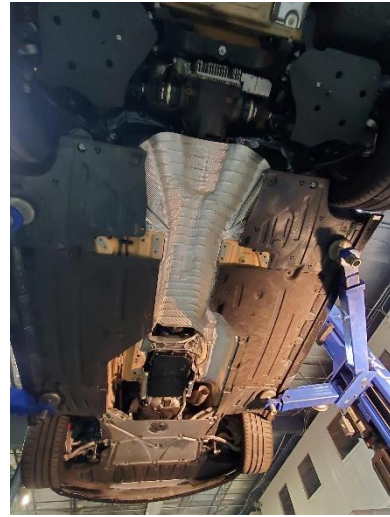
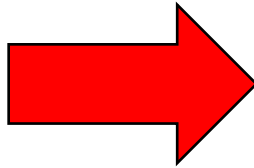
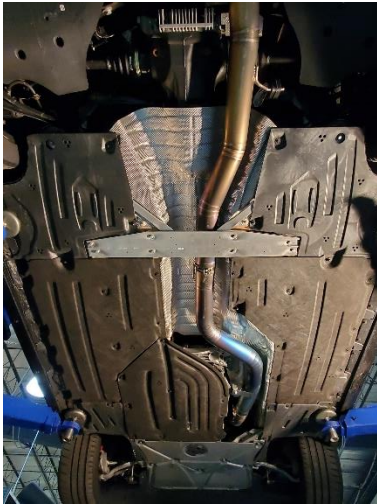
## Pre-Installation Procedure

**Step 1:** Before installation check the shipping box for correct components listed in the “Parts List” section.

**Step 2:** Raise the vehicle and support properly to prevent injury. Parking brake must be engaged.

**Step 3:** Remove the 8mm bolts holding the under paneling into the vehicle.

**Step 4:** Remove the eight 13mm and the two E14 bolts from the aluminum crossmember.



**Step 5:** Once the aluminum crossmember is removed, the exhaust must then be removed.

**Step 6:** Next remove the heat shield to allow access to the driveshaft.

**Step 7:** Loosen the nut on the differential flange (We recommend using the BMW differential nut tool, but a large wrench should be able to get the job done).

**Step 8:** Remove the nuts and bolts connecting the giubo to the transmission flange.

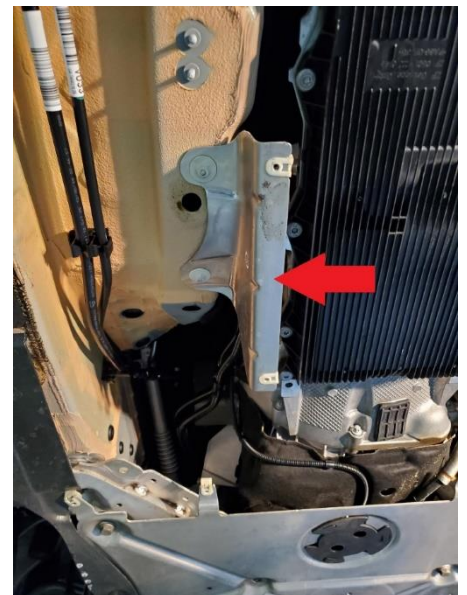
To access all giubo bolts, the driveshaft will need to be rotated. For this to be possible, the neutral safety bypass switch must be located.

**The link to a forum to help with this issue can be found here,** <https://www.supramkv.com/threads/how-do-i-get-2021-supra-out-of-park.8864/>

**The following is an excerpt from the forum.**

*Remove the metal shield on left side of transmission (see arrow) to access neutral safety switch bypass lever.*

*Once you've gained access to the transmission, locate the hex-head bolt. Use a 5mm hex bit socket on a ratchet to rotate the bolt to the right. Listen for a click as you move the foot up. The click indicates that the transmission is no longer in park, and the car (and driveshaft) will turn freely.*



**Step 9:** Remove the hanger bearing bolts.

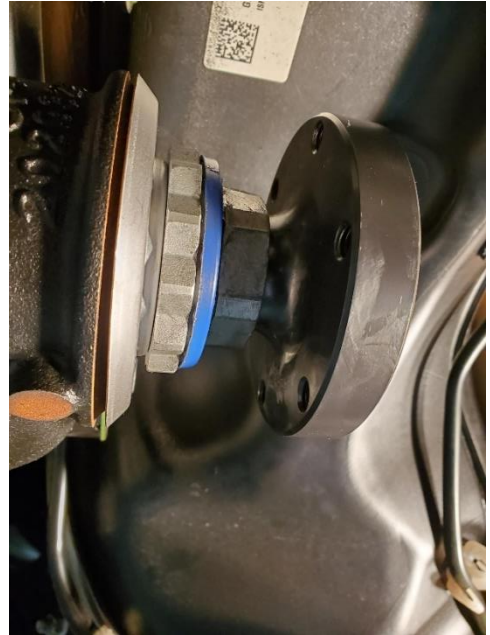
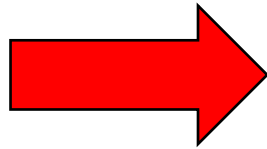
**Step 10:** Remove OEM driveshaft from vehicle.

**Step 11:** Remove giubo from OEM driveshaft.

## Driveshaft Installation

### USE MEDIUM STRENGTH THREADLOCKER ON ALL BOLTS

**Step 1:** Install the 108-BMW-R-34 flange to the differential spline and tighten nut. There should not be any exposed threads on the flange when nut is tightened.



**Step 2:** Install the OEM guibo to the transmission flange using three of the provided M12X1.75X70 bolts and nuts.

**Step 3:** Torque M12X1.75X70 bolts to 70 ft-lbs.

**Step 4:** Use a transmission jack to support the transmission.

**Step 5:** Loosen the transmission rear crossmember bolts so the back of the transmission can be lowered.

**Step 6:** Align the bushing on the driveshaft with the alignment pin for the transmission and mate the driveshaft with the guibo.



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**Step 7:** Use the remaining three M12X1.75X70 bolts and nuts to tighten the driveshaft to the guibo.

**Step 8:** Torque M12X1.75X70 bolts to 70 ft-lbs.



**Step 9:** Raise the CV end of the driveshaft and install into the 108-BMW-R-34 flange.

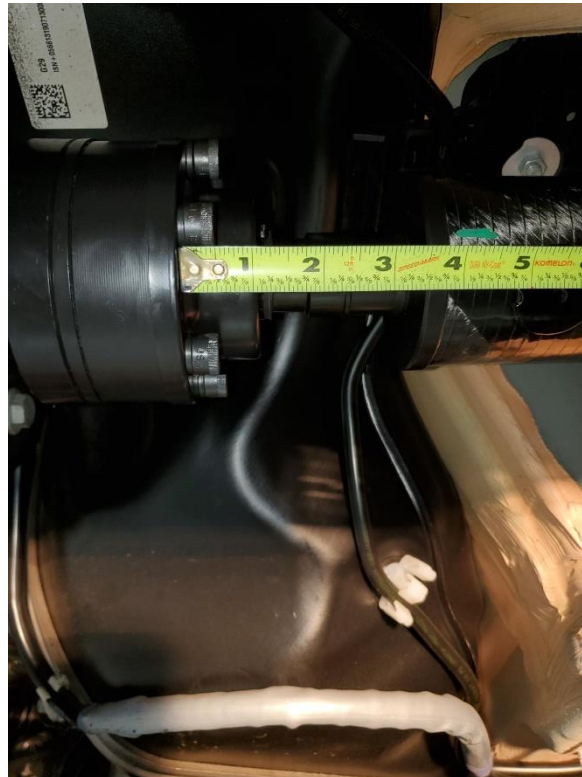
**Step 10:** Use the six M10X1.5X60 bolts and lock washers to attach the CV to the 108-BMW-R-34 flange.

**Step 11:** Torque M10X1.5X60 bolts to 57 ft-lbs.

**Step 12:** Raise the rear of the transmission into place and tighten the crossmember bolts.

**Step 13:** With the driveshaft fully installed, check that no obstructions are contacting the driveshaft.

**Step 14:** Check CV gap.



**Step 15:** Reinstall the OEM heat shield.

Heat shield may need to be bent slightly to accommodate for larger diameter driveshaft.

**Step 16:** Reinstall exhaust.

**Step 17:** Reinstall aluminum chassis brace.

**Step 18:** Reinstall all OEM under paneling.

## **Bolt Torque Specifications**

\*We **recommend** the use of a medium strength thread locker on all bolts. Thread locker is not included and can be purchased at most major auto parts retailers.

M12X1.75X70

70 ft-lbs

M10X1.5X60

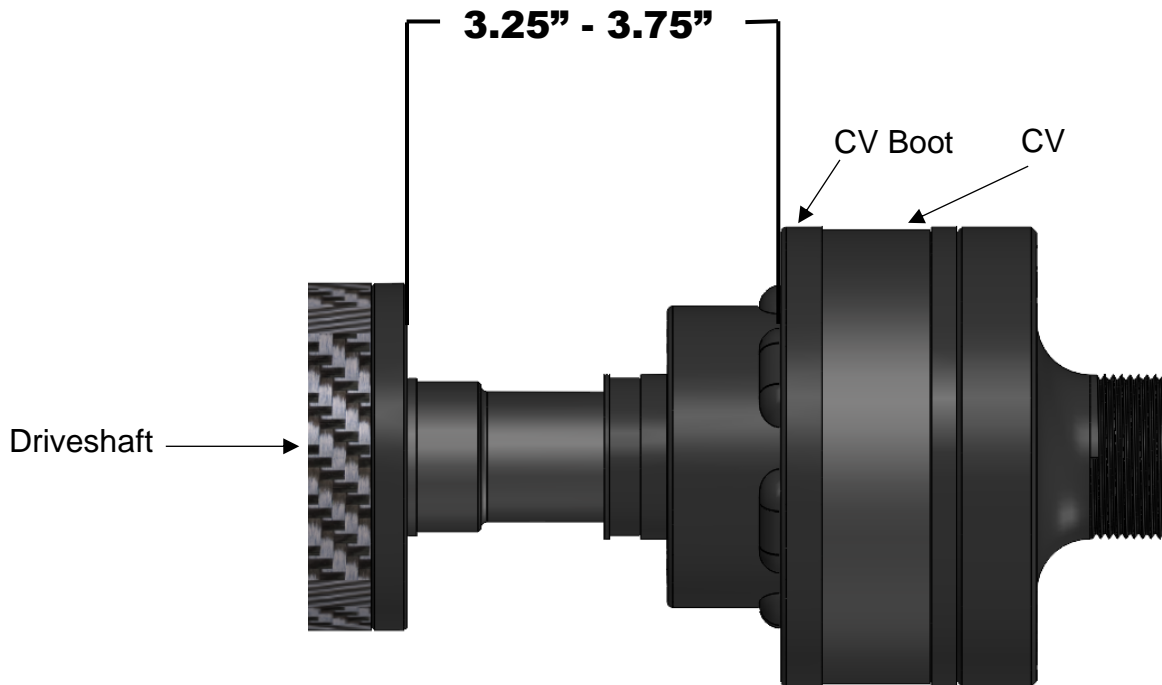
57 ft-lbs

## Checking For Proper Driveshaft Installation

Step 1: Driveshaft must have proper clearance to avoid contacting any components under the vehicle.

Step 2: Check the CV gap. CV Gap is measured from the base of the stub to the flat portion of the CV boot, as shown in the image below.

**CV gap must be between 3.25" and 3.75"**



**IF DRIVESHAFT DOES NOT MEET THESE INSTALLATION REQUIREMENTS,  
UNINSTALL DRIVESHAFT.**

\*Improper driveshaft installation could result in product failure, damage to vehicle, and personal injury.

\*Warranty will be void if driveshaft is installed without meeting the requirements.

\*If driveshaft does not meet the installation requirements or if any questions are not covered in the installation guide contact customer service at:

**(800) 564-2244**

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