

# Rear Differential Cooling Plate – A90 Toyota Supra

Install Manual



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**Document Revisions** 

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- 1. Introduction
  - **1.1. Overview:** Detailed instructions on installing our rear differential cooling plate for the A90 MKV Toyota Supra
  - 1.2. Difficulty: Easy
  - 1.3. Time Required: 0.5 hour

#### 1.4. Tools Needed:

- **1.4.1.** 8mm Socket
- 1.4.2. Ratchet
- 1.4.3. 2.5mm Allen Wrench
- 1.4.4. Extension



# **1.5.** Rear Diff Cooling Plate Components

- **1.5.1.** Assembled Cooling Plate
- 1.5.2. Hardware Bag
  - 1.5.2.1. (4) M5 x 0.8 BHCS (Button Head Cap Screw) x 70mm Long, Stainless
  - 1.5.2.2. (6) M5 Fender Washer, Stainless
  - 1.5.2.3. (2) M5 Flat Washer, Stainless
  - **1.5.2.4.** (4) M5 x 0.8 Nyloc Nut, Stainless





## 2. A90 Toyota Supra Rear Diff Cooling Plate Install

- **2.1.** Verus Engineering is not responsible for damage to you or your vehicle by following this manual and/or installing Verus Engineering products.
- **2.2.** We begin by gaining access to the bottom of the rear differential. You can do this by either jacking the rear of the car up while utilizing jack stands; or on a lift.
- **2.3.** Below is a photo with access to the rear differential.





2.4. The neat part about this install, is that it does not require any permanent modification. Simply slide the cooling plate on the fins as shown below.



- **2.5.** You will want to push this upwards, note how close the cut out for the sensor is in the above image.
- **2.6.** Grabbing the (4) M5 BHCS, (2) M5 flat washers (yellow arrows), and (2) M5 fender washers (blue washers), we can install the bolts. Note the smaller washers are used on the inside locations.





**2.7.** Grabbing the remainder of the hardware, we can install the nuts on the front side of the shield as shown below.



- **2.8.** Using the allen wrench and the 8mm socket, we can tighten the (4) bolts/nuts. Torque to 60 in/lbs. Slightly past snug is good as the nylocs resist loosening over time.
- **2.9.** Congratulations on installing the Verus Engineering cooling plate for the rear differential on the A90 Toyota Supra.
- **2.10.** Please send any questions, comments, concerns, or photos to Verus Engineering via e-mail; sales@verus-engineering.com.

