

Mk5 Toyota Supra Turbo Heatshield Kit

Install Manual





Author: Eric Hazen Release Date: 2020/01/11 Approvals: E. Hazen, C. Warner

Document Revisions

Rev	Date	Author	Description	
01	2020/01/11	E. Hazen	Initial release of install manual	



A90 Toyota Supra Heatshield Kit – Install Manual

CONTENTS

1.	Introduction	<3:
	1.1. Overview	<3
	1.2. Difficulty	
	1.3. Time Required	
	1.4. Tools Needed	
	1.5. Turbo Heatshield Components	
2.	Turbo Heatshield Install	



A90 Toyota Supra Heatshield Kit – Install Manual

1. Introduction

1.1. Overview: Detailed instructions on installing the Turbo Heatshield kit for the Toyota Supra.

1.2. Difficulty: Beginner

1.3. Time Required: 0.5-1 hour

1.4. Tools Needed:

- 1.4.1. Flat Head Screwdriver
- **1.4.2.** Ratchet
- **1.4.3.** 13mm Socket
- **1.4.4.** 4mm Allen Wrench / Allen Socket
- **1.4.5.** 5mm Allen Wrench / Allen Socket
- **1.4.6.** T20 Torx



1.5. Turbo Heatshield Components

- 1.5.1. (1) Main Turbo Heatshield Piece
- 1.5.2. (1) Side Turbo Heatshield Piece
- **1.5.3.** (1) Hardware Kit
 - 1.5.3.1. (2) M8x1.25 BHCS (Button Head Cap Screw) x 25mm Long, Stainless
 - **1.5.3.2.** (2) M8 Fender Washer, Stainless Steel
 - **1.5.3.3.** (2) M8 x 16mm Long Spacer, Aluminum
 - **1.5.3.4.** (5) M6x1.0 BHCS x 12mm Long, Stainless
 - **1.5.3.5.** (5) M6 Washer, Stainless Steel



A90 Toyota Supra Heatshield Kit – Install Manual



2. Turbo Heatshield Installation

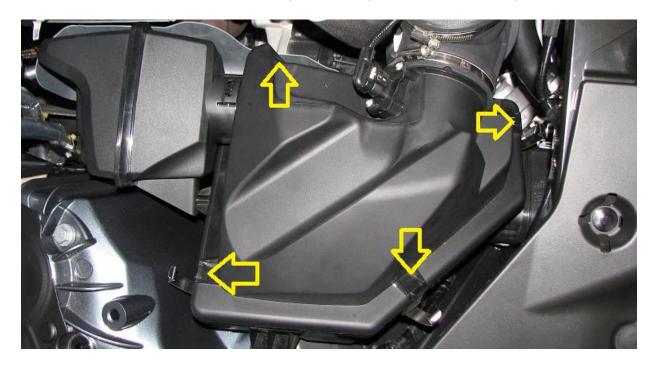
- **2.1.** Verus is not responsible for damage to you or your vehicle by following this manual and/or installing Verus Engineering products
- **2.2.** We begin by popping the hood.
- **2.3.** Loosen hose clamp with flat head screw driver. This is shown below with a red arrow.





A90 Toyota Supra Heatshield Kit – Install Manual

2.4. Remove the (4) intake filter box clamps, these are pointed out with the (4) yellow arrows.



- **2.5.** Flip the top of the intake box over onto the engine cover, being careful not to damage the IAT sensor wires.
- **2.6.** With the intake box out of the way, remove the filter and full upward on the lower intake box. The box is held in place by rubber grommets; no bolts and nuts, it just takes a bit of force to remove from the vehicle.



A90 Toyota Supra Heatshield Kit – Install Manual



2.7. Remove the rubber grommets from the air box and re-install into the chassis. This makes reinstall easier.



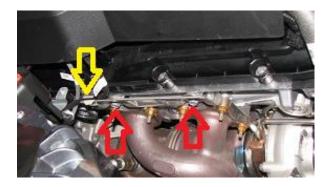
2.8. We will now have a clear shot to the turbo and can start the install of the Verus heatshield.





A90 Toyota Supra Heatshield Kit - Install Manual

2.9. Remove the factory heat shield with the 13mm socket (red arrows). You will also have to remove the wire harness from the clip, which is shown by a yellow arrow.



- **2.10.** Keep the OE heatshield as we will re-use it.
- **2.11.** Snake the side piece into place as shown below and lay it towards the front of the engine, again as shown below.



2.12. We can now install the main heatshield component. You will use the M8x1.25 BHCS, then the washer, the heatshield next, followed by the M8 spacer, and finally the OE heatshield.



A90 Toyota Supra Heatshield Kit - Install Manual



2.13. Tighten the m8 bolts to 8-10 ft-lbs.



2.14. Utilizing the supplied M6 hardware, we can install the main heatshield to the side heatshield. It is suggested to loosely install all the hardware initially.



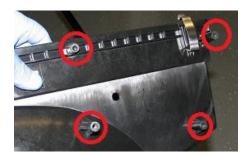
- **2.15.** Tighten this hardware to 4-6 ft-lbs.
- **2.16.** If you are worried about clearance with the heatshield, you can modify the clearance slightly by pulling or pushing the heatshield and changing the top bend angle slightly.
- **2.17.** Reinstall the o2 sensor wiring into the heatshield clip.



A90 Toyota Supra Heatshield Kit – Install Manual



2.18. Remove the OE heatshield from the bottom of the air box by removing (4) T20 Torx bolts.



- **2.19.** Reinstall the intake components in reverse order.
- **2.20.** This concludes the turbo heatshield kit for the Toyota Supra. Please send any comments, concerns, questions, and general feedback to Verus Engineering via sales@verus-engineering.com.



A90 Toyota Supra Heatshield Kit – Install Manual

