



Performance Shortram Air Intake Kit Part Number: 827-509

Toyota 2000-2005 MR2 Spyder 1.8L
(Does not fit models with SMT)

Installation Instructions

For technical inquiries please email us at tech@hpsperformanceproducts.com

In the email, please include the following information for faster response:

- Year / Make / Model / Engine of your vehicle.
- If it is a fitment issue, please include pictures showing the fitment problem.
- If there are missing parts, please list the part number(s) from the bill of materials on the 2nd page.
- Optional but recommended – Your contact phone number and preferred call back time.

You can also give us a call via 626-747-9200 for tech support Monday-Friday, 9:00am-5:00pm Pacific Time.

Bill of Materials

Part Number: 827-509

Description	Prep	Part Number	Qty	Check
Short Ram Intake Pipe	1	529-56	1	
HPS Air Filter	2	HPS-4334	1	
T-Bolt Clamp 2 1/2" Hose	3	SSTC-67-75	2	
T-Bolt Clamp for 2 3/4" Hose	3	SSTC-76-84	1	
T-Bolt Clamp for 3 1/2" Hose	3	SSTC-95-103	1	
8mm Vacuum Hose x 18" Long	3	HTSVH8-BLK	1	
1/2" Breather Hose x 7" Long	3	EPDM-050	1	
Velocity Stack 3.5" to 6"	3	HW-VS-350-600	1	
Sensor bracket	3	530-57	1	
Intake bracket	3	530-58	1	
2 1/2" to 2 3/4" 90 Degree silicone Elbow	3	27-509-SILICONE	1	
2 1/2" to 3 1/2" Silicone Reducer	3	P3SR-250-350-L3	1	
4mm Allen Head Bolt x 8mm Long	3	HW-B4-8	2	
6mm Flat Large OD Washer	3	HW-FW6L	4	
6mm Flange Bolt x 12mm Long	3	HW-B6-12	2	
6mm Flange Bolt x 16mm Long	3	HW-B6-16	1	
6mm Flange Nut	3	HW-N6	2	
5mm Flange Bolt x 12mm Long	3	HW-B5-12	1	
5mm Flange Nut	3	HW-N5	1	
5mm Flat Washer	3	HW-FW5	1	
6mm Rubber Mount x 1" Long	3	HW-RM6-100	1	

- Report any defective or missing parts to the Authorized HPS dealer you purchased this product from.
- Before installing any parts of this system, read the instructions thoroughly.
- Installation DOES require some mechanical skills. A qualified mechanic is always recommended.
- Do not attempt to install the intake system while the engine is hot.
- The installation may require removal of radiator fluid lines that may be hot.
- For technical inquiries, please e-mail us at tech@hpsperformanceproducts.com

PLEASE READ CAREFULLY BEFORE INSTALLATION!

This installation is not for the novice customer. Install this product with EXTREME caution! Misuse of this product can destroy your engine! If you are not mechanically inclined, please have a professional automotive mechanic install this kit.

NOTE: HPS holds no responsibility for any engine damage that results from misuse of this product.



GETTING STARTED

1. Turn the ignition OFF and disconnect the vehicle's negative battery cable. If the engine has run within the past two hours, let it cool down.

NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is reconnected. The anti-theft code is typically supplied with your owner's manual. In the event your vehicle's anti-theft code cannot be recovered, contact an authorized dealership to obtain your vehicle's anti-theft code. We also highly recommend NOT discarding any stock parts after the installation.



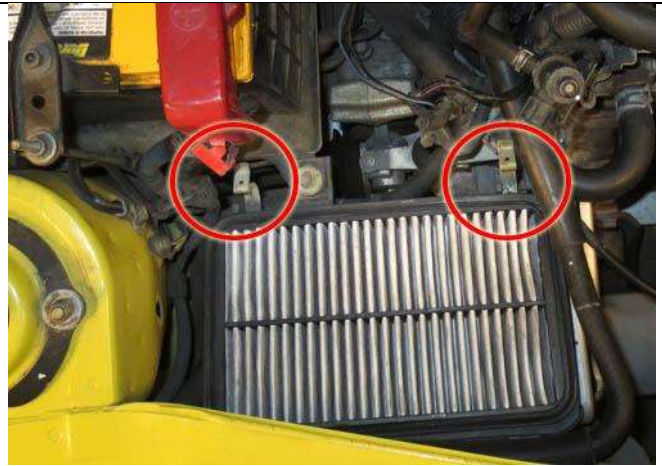
2. Remove the 4 bolts holding the factory strut tower bar with a 14mm socket.



3. Disconnect the mass air flow (MAF) sensor harness. Check for any clips that may be holding the harness to the air box. Separate the EVAP sensor from the air hose.



4. Loosen the hose clamps on the air box and the throttle body. Carefully unclip the harness. Remove the screw from the EVAP purge valve, then separate the valve from the air box. Once loosened, remove the factory air inlet hose from the engine bay.



5. Unclip and remove the top half of the air box via the clips circled in the image. You may need to unhook some coolant hoses from the top of the air box. Once you have access to the air filter, remove the air filter.



6. Remove the bolts that hold in the bottom of the air box. Look for any coolant hoses that may still be hooked onto the air box. To remove the air box, simply lift up to free the box from a rubber mount on the chassis.



7. Install the HPS air filter onto the velocity stack. Attach the 2.5" to 3.5" silicone reducer to connect the velocity stack to the intake pipe. Secure using the T-bolt clamps provided.



8. Insert the 90 degree elbow coupler into the throttle body. Loosely fit the larger T-bolt clamp onto the throttle body. Insert the smaller T-bolt clamp onto the smaller end of the coupler. Then install the pipe onto the silicone coupler.



9. Install the threaded rubber vibration mount onto the threaded hole located on the battery tray.



10. Attach the VSV onto the HPS intake pipe with the M6 x 16mm (longer) bolt, M6 flat washer and M6 nut included with the kit.



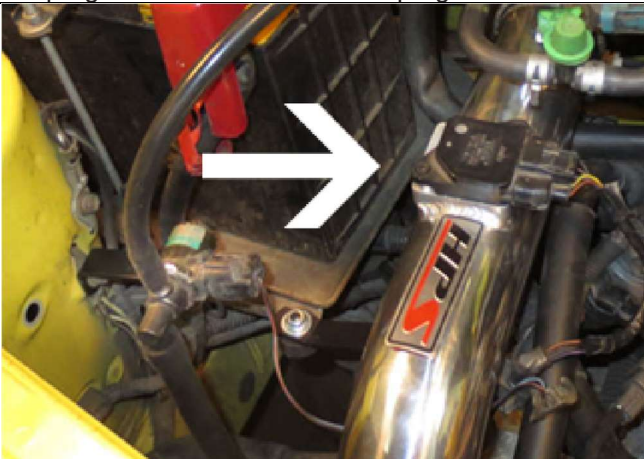
11. Attach the sensor bracket to the purge valve as indicated in the photo. Then attach the 1/2" hose onto the 90° side of the valve.



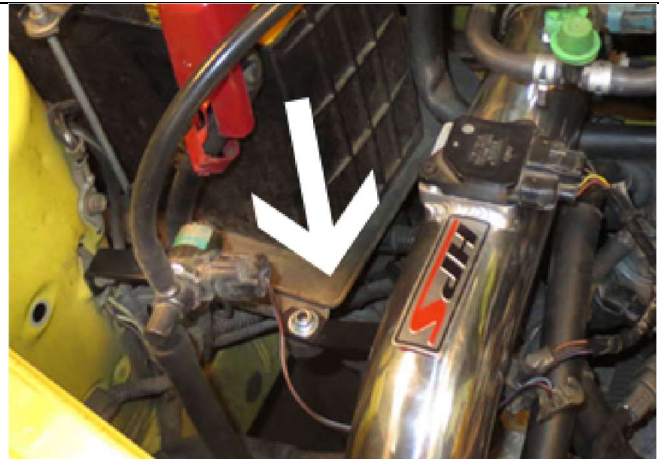
12. Loosen the lower ground cable located on the driver side strut tower with a 10mm socket. Place the purge valve sensor bracket on top, sandwiching the ground cable, and re-install the bolt. Install the 8mm vacuum hose to the top of the purge valve. Reconnect the purge valve harness onto the purge valve.



13. Remove the original vacuum hose for the purge valve and replace it with the other end of the 8mm vacuum hose.



14. Install the MAF sensor onto the HPS intake pipe using the provided M4 Allen Head bolts. Reconnect the MAF sensor harness.



15. Install the intake bracket onto the rubber mount with a 6mm flat washer and m6 flange nut. Install the other end of the bracket onto the intake using a 6mm washer and M6 bolt. Position the intake to where it is clear of obstructions.

Final Steps

Once the intake has been positioned, tighten all of the clamps and secure all of the parts.

Upon completion of the installation, reconnect the negative battery terminal before you start the engine. Double check to make sure everything is tight and properly positioned before starting the vehicle.

Start the engine. Let the car idle for 3 minutes. Perform a final inspection before driving. Listen carefully for any odd noises, rattles and/or air leaks prior to taking it for a test drive. If any problems arise go back and check the vacuum lines, hoses and clamps that may be causing leaks or rattles and correct the problem.

Periodically, recheck the alignment of the intake system and make sure there is proper clearance around and along the length of the intake. Failure to follow proper maintenance procedures may cause damage to the intake and will void the warranty.

Available Now!

HPS Silicone Radiator Coolant Hose Kit (Black/Blue/Red)

Toyota 2000-2005 MR2 Spyder 1.8L

Part Number 57-1432



