



Performance Shortram Air Intake Kit Part Number: 827-631

2018-2020 Toyota CH-R 2.0L 4-CYL

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

Kit Number: 827-631

Description	Prep	Part Number	Qty	Check
Air Intake Pipe	1	529-411	1	
Heat-Shield	2	531-413	1	
Bracket #1	3	530-412	1	
Bracket #2	3	530-445	1	
HPS Air Filter	4	HPS-4274	1	
T-Bolt Clamp for 2.50" Hose	5	SSTC-67-75	2	
2.50" Coupler x 2.50" Long	5	P3SC-250-L25	1	
M4 Allen Bolts x 10mm long	5	HW-B4-10	2	
M6 Bolt x 16mm long	5	HW-B6-16	1	
M6 Bolt x 25mm long	5	HW-B6-25	2	
M6 Flange Nut	5	HW-N6	3	
M6 Flat Washer x 16mm OD	5	HW-FW6L	6	
M6 x 13mm OD, 5mm thick spacer	5	94669A165	1	
Edge Trim with Bulb x 31" Length	5	Edge Trim with Bulb	1	
Edge Trim with Bulb x12" Length	5	Edge Trim with Bulb	1	

- **Before installing any parts of this intake system, please read the instructions thoroughly.**
- **Verify the contents of this intake kit before disassembling your vehicle.**
- **DO NOT INSTALL IF ANY PARTS ARE MISSING OR DAMAGED. CONTACT tech@hpsperformanceproducts.com IMMEDIATELY. WE ARE NOT RESPONSIBLE FOR ANY DAMAGE CAUSED DUE TO IMPROPER INSTALLATION.**
- **Installation requires moderate mechanical skills. A qualified mechanic is highly recommended.**
- **Do not attempt to install the intake system while the engine is hot.**
- **This installation may require removal of coolant lines that may be hot.**
- **For technical inquiries, please e-mail us at tech@hpsperformanceproducts.com**

PLEASE READ CAREFULLY BEFORE INSTALLATION!

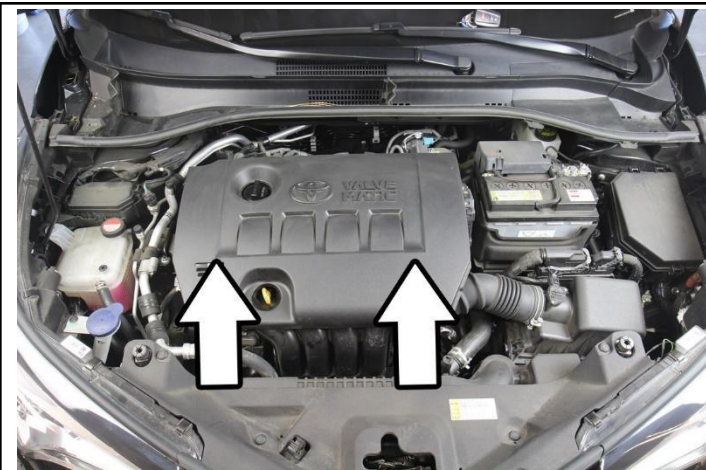
This installation is not for the novice customer. Install this product with EXTREME caution! Misuse of this product can destroy your engine! If you are not mechanically inclined, please have a professional automotive mechanic install this kit.

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

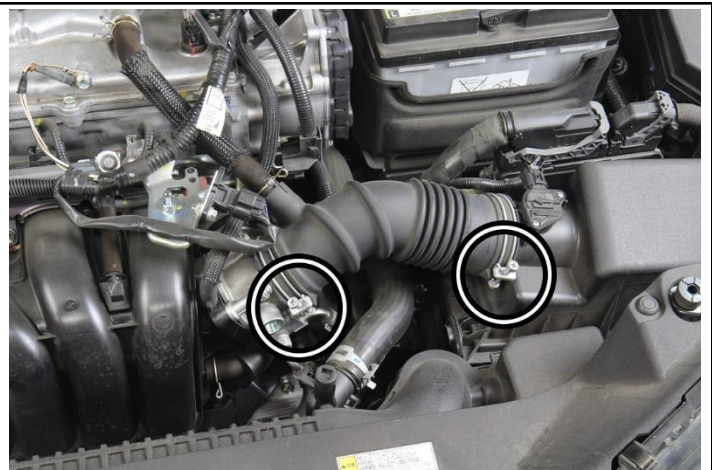
GETTING STARTED

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 vehicles' 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. Lift and remove the engine cover from the vehicle.



3. Loosen the hose clamps securing the intake tube from the air box and the throttle body.



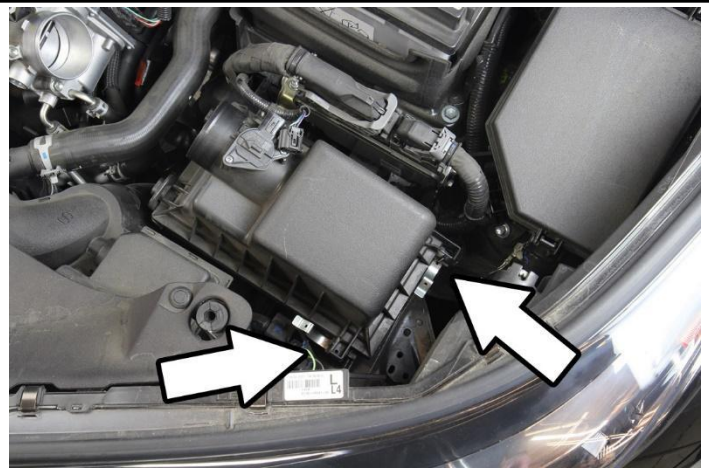
4. Depress the spring clamp and remove the breather hose from the intake tube.



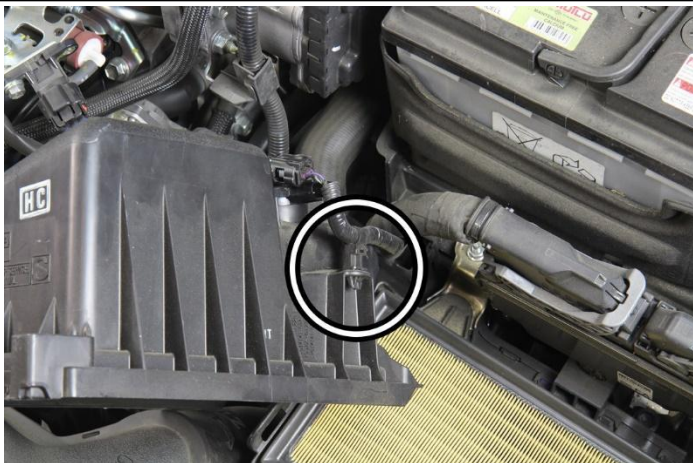
5. Remove the stock intake tube from the vehicle.



6. Disconnect the Mass Air Flow sensor connector from the MAF sensor.



7. Unclip the retaining clips securing the upper air box from the lower air box assembly.



8. Unclip the MAF sensor electrical harness from the air box, then remove the air box and the stock air filter from the vehicle.



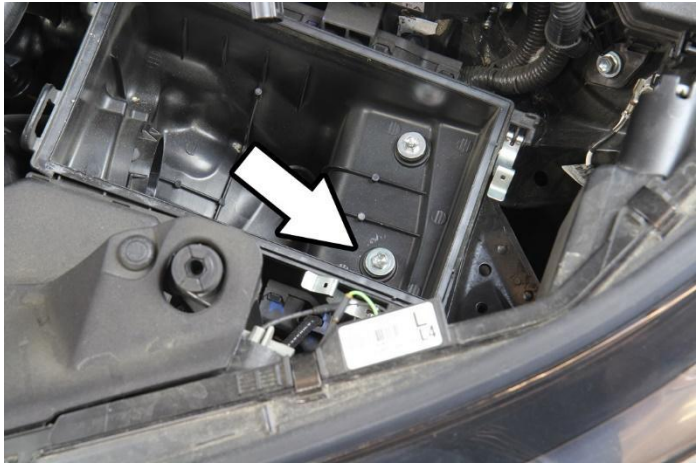
9. Insert the provided silicone coupler along with the t-bolt clamps onto the throttle body.



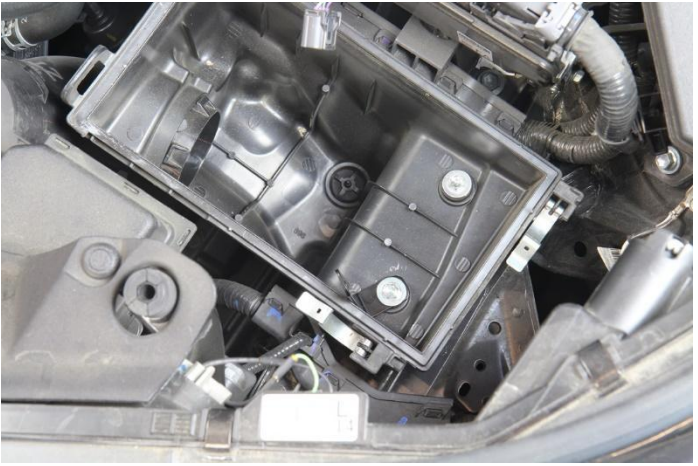
10. Install the provided bubble edge trim onto the heat-shield in the indicated areas shown above.



11. Remove the MAF sensor from the stock air box and install the sensor onto the HPS intake pipe. Secure the sensor using the M4 bolts supplied in the hardware kit.



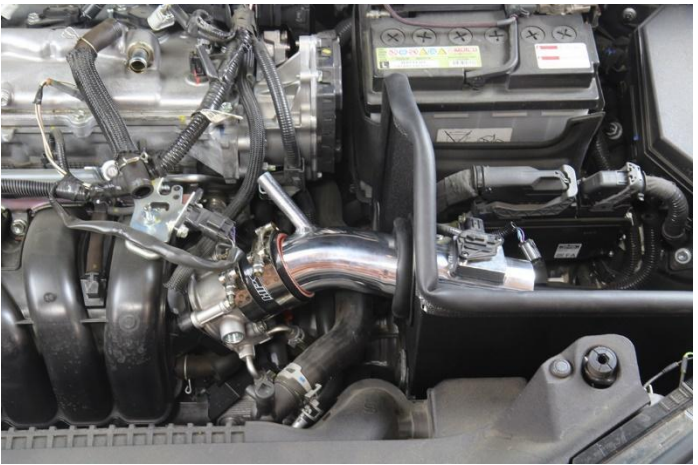
12. Remove the 10mm bolt securing the lower air box shown in the image above.



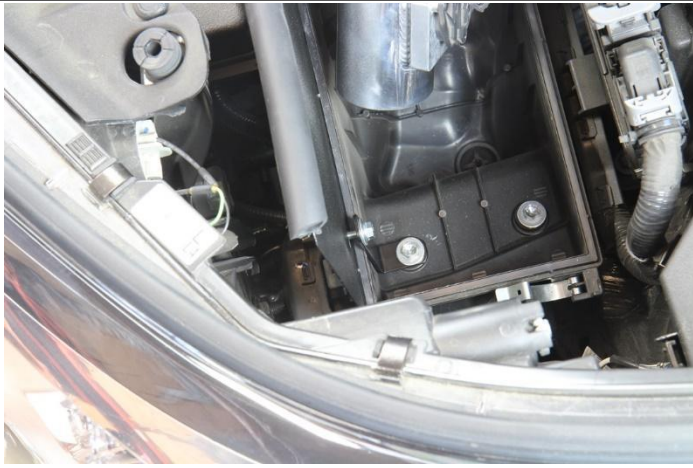
13. Install the "L" bracket onto the stock air box mount and secure the bracket re-using the bolt removed from the previous step.



14. Insert the HPS intake pipe into the heat-shield. * This will make it easier to install instead of installing the pipe when the heat-shield is mounted first*



15. Insert the heat-shield/ pipe into the vehicle and insert the intake pipe into the throttle body. The heat-shield should sit on top of the lower air box assembly.



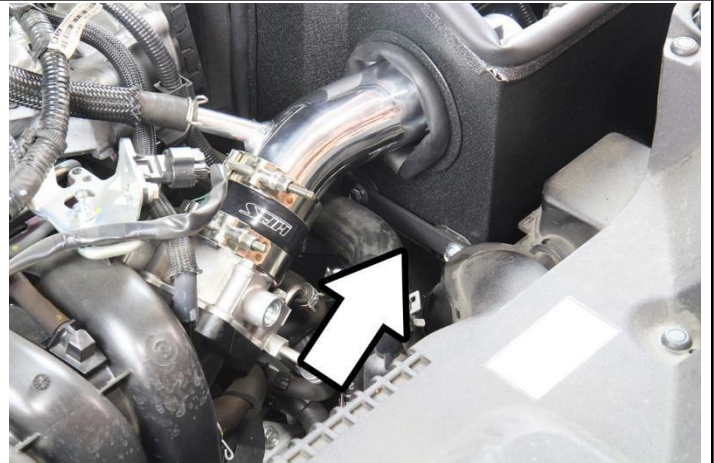
16. Locate the 6mm x 16 bolt, washer, nut, and spacer. Place the spacer between the bracket and the heat-shield and secure the bracket onto the heat-shield.



17. Adjust the pipe to the proper position and tighten the t-bolt clamp, then re-install the stock breather hose onto the intake barb.



18. Re-connect the MAF sensor connector harness.



19. Install the provided flat bracket on the engine side of the heat shield and insert the 6mm x 25mm bolts through the heat-shield.



20. Install the M6 flat washers onto the M6x25mm bolts and thread the M6 nuts onto the bolts.



21. Install the provided HPS air filter onto the intake pipe.



22. Re-install the engine cover back onto the vehicle.

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.

