



# Performance Shortram Air Intake Kit Part Number: 827-686

**2014 – 2018 Mazda 3 2.0L Skyactiv**

## Installation Instructions

For technical inquiries please email us at [tech@hpsperformanceproducts.com](mailto: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: 827-686

Description	Prep	Part Number	Qty	Check
Air Intake Pipe	1	529-219	1	
Heat Shield	2	531-610	1	
Intake Bracket	3	530-517	1	
Heat-Shield Bracket #1	3	530-443	1	
Heat-Shield Bracket #2	3	530-516	1	
Heat-Shield Bracket #3	3	530-517	1	
HPS Performance Air Filter	4	HPS-4276	1	
2.75" – 3.00" Reducer x 3.00" Long	5	P3SR-275-300-L3	1	
T-Bolt Clamp for 2.75" Hose	5	SSTC-70-78	1	
T-Bolt Clamp for 3.00" Hose	5	SSTC-76-84	1	
Clamp for EPDM hose	5	EMSC-10-16	2	
M6 Bolt x 12mm Long	5	HW-B6-12	1	
M6 Bolt x 16mm Long	5	HW-B6-16	1	
M6 Bolt x 20mm Long	5	HW-B6-20	1	
M6 Bolt x 25mm Long	5	HW-B6-25	2	
M6 Flat Washer x 16mm OD	5	HW-FW6L	9	
6mm Flange Nut	5	HW-N6	4	
M4 Allen Bolts x M8 long	5	HW-B4-8	2	
11mm EPDM Hose x 17 inches	5	EPDM-043	1	
3.00" - 2.75" Venturi Sleeve	5	HW-VEN-300-275	1	
Bubble Edge Trim x 13 inches	5	Bubble Edge Trim	1	
Thin Edge Trim x 25 inches	5	Thin Edge Trim	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.
- Report any defective or missing parts to HPS directly. The HPS dealer you purchased this product from might not have the replacement parts you need.
- 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](mailto: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.**

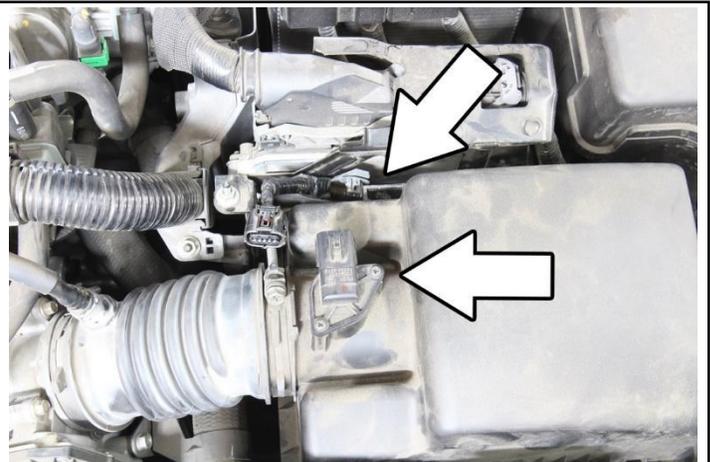
### **GETTING STARTED**

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.

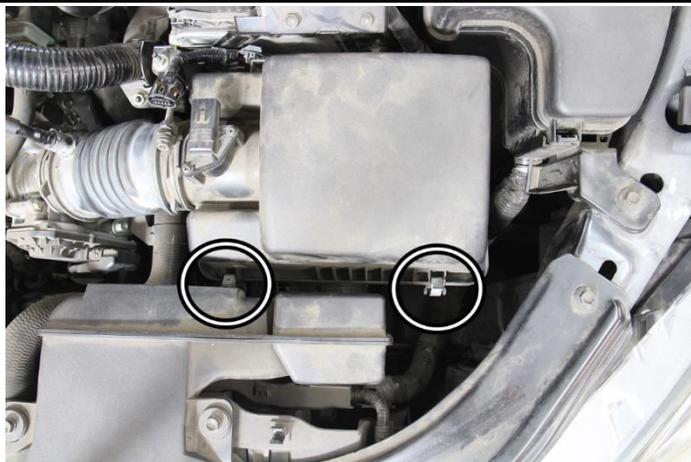
NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is reconnected. The anti-theft code is typically supplied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



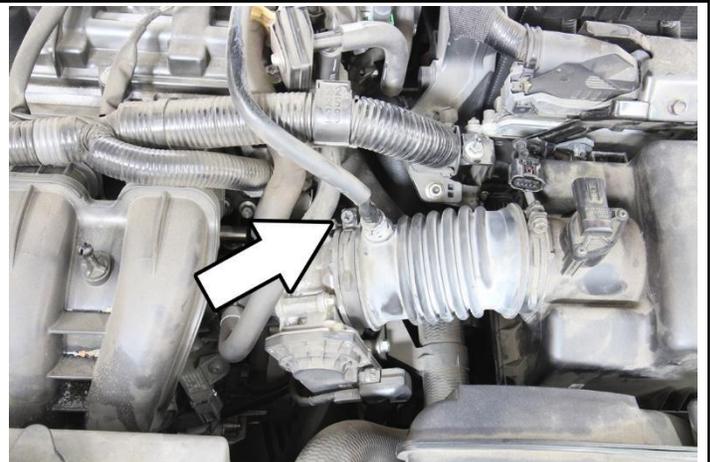
2. Lift and remove engine cover from the vehicle.



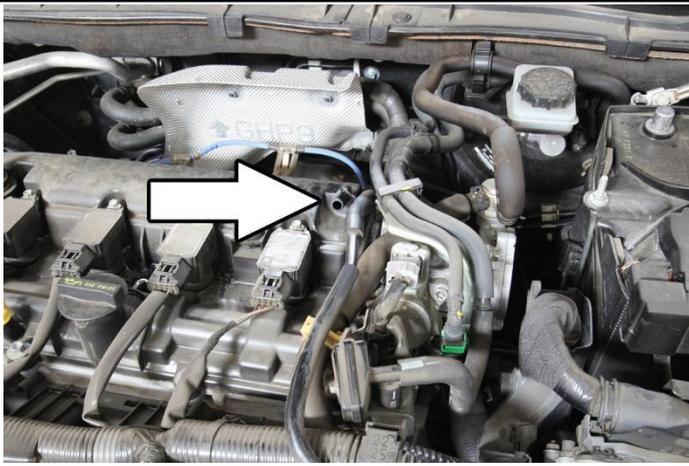
3. Disconnect the Mass air flow sensor connector harness from the sensor and remove the harness clip from the upper air box assembly.



4. Disconnect the retaining clips securing the upper air box assembly.



5. Loosen the hose clamp securing the intake tube from the throttle body.



6. Disconnect the crank case vent hose from the valve cover.



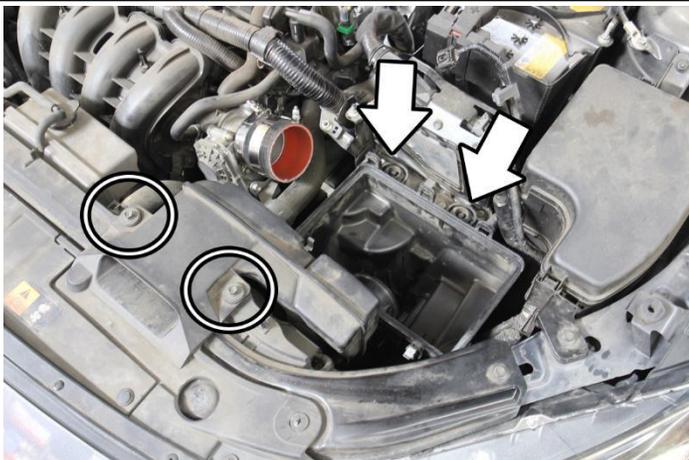
7. Remove the upper air box assembly along with the factory intake tube from the vehicle.



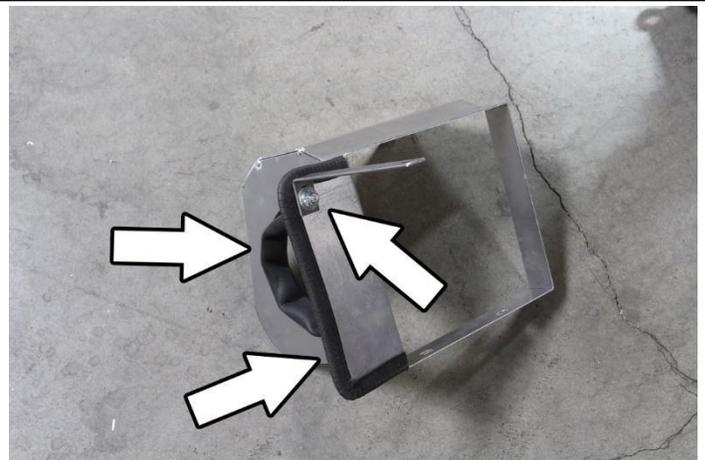
8. Remove the air filter from the vehicle.



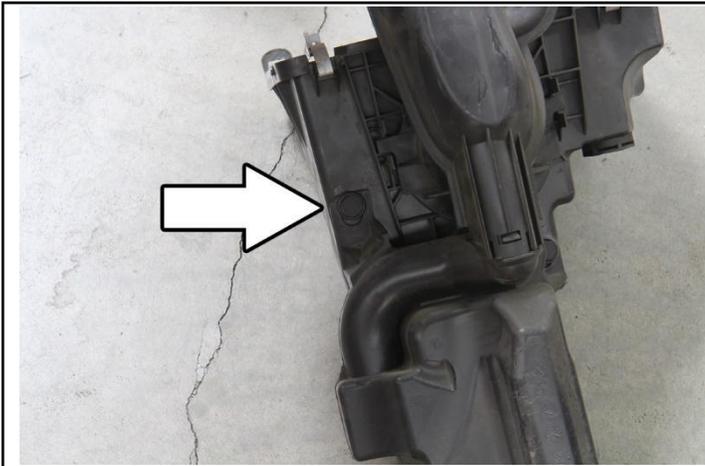
9. Install the reducer coupler along with the provided T-bolt clamps onto the throttle body.



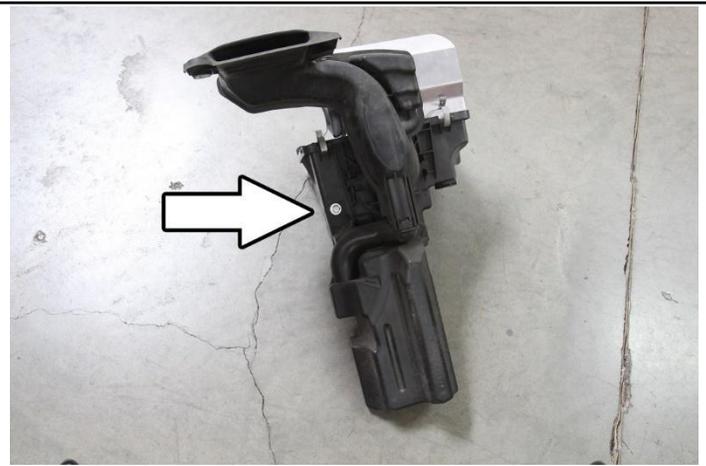
10. Remove the two 10mm bolt securing the factory air duct, then lift the lower air box assembly from their grommets and remove the lower air box assembly from the vehicle.



11. Insert the thin and bubble edge trim in the areas shown above. Install the "L" bracket onto the heat shield using M6x16mm bolt, nut and washers.



12. Remove the factory retaining clip from the air duct.



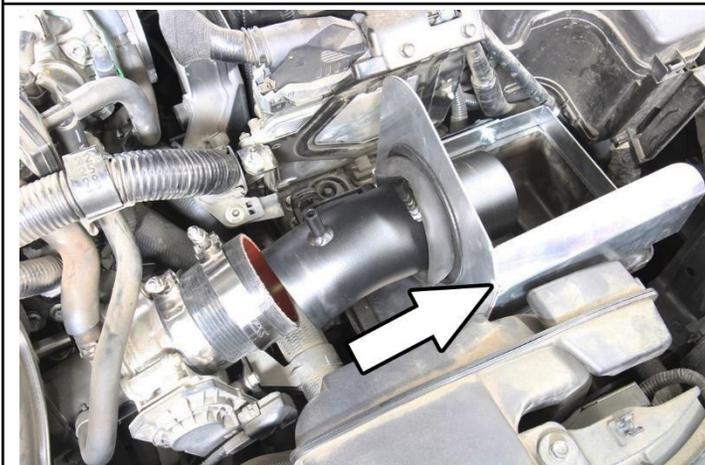
13. Install the heat shield on top of the factory lower air box and secure the heat shield bracket to the lower air box assembly using a M6x20mm bolt, nut and washers.



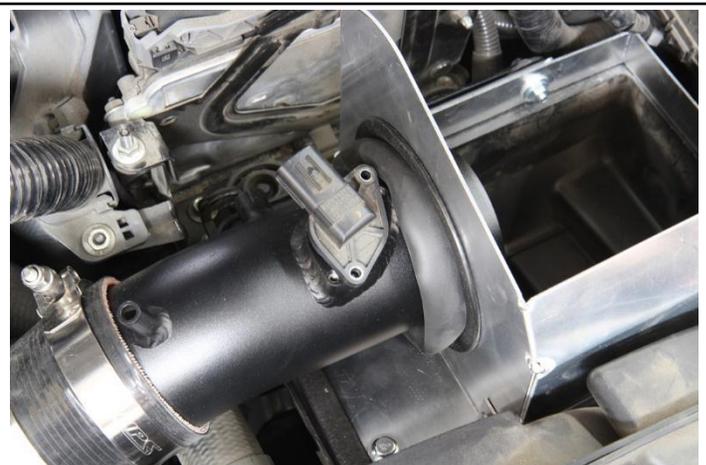
14. Insert the flat bracket (A) outside of the factory lower air box tabs. Use the provided M6x25mm bolts, nuts and washers to secure the heat shield.



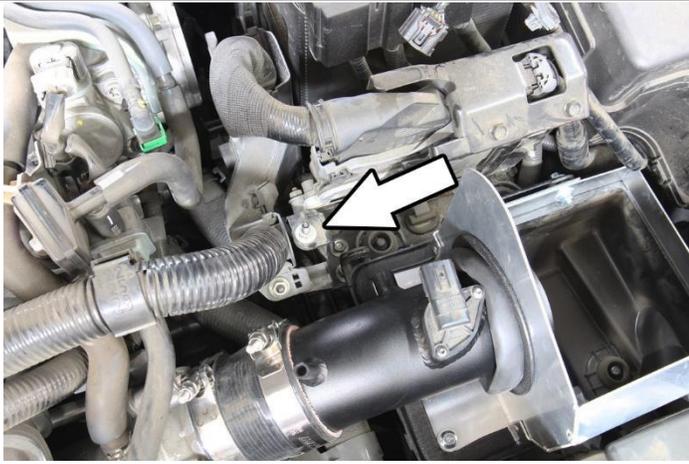
15. Insert the air box assembly into the vehicle and re-secure the air box using the factory bolts.



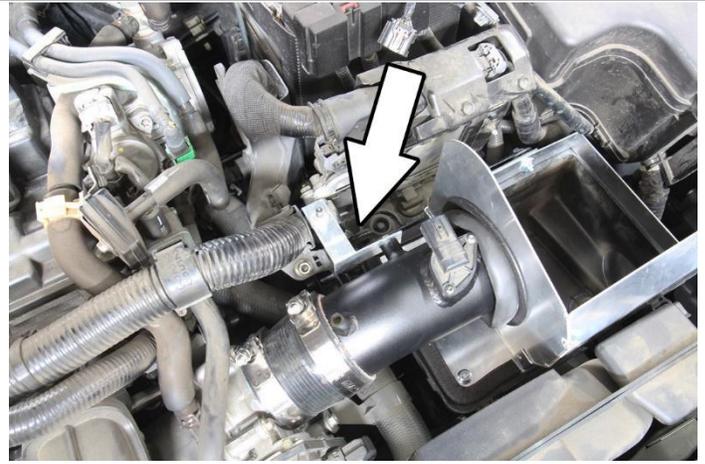
16. Insert the HPS intake pipe into the heatshield opening, then into the coupler.



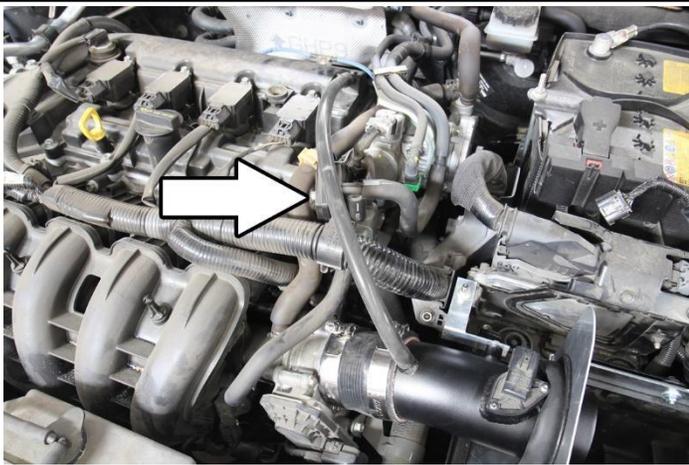
17. Install and secure the factory MAF sensor using the provided M4x8mm allen bolts.



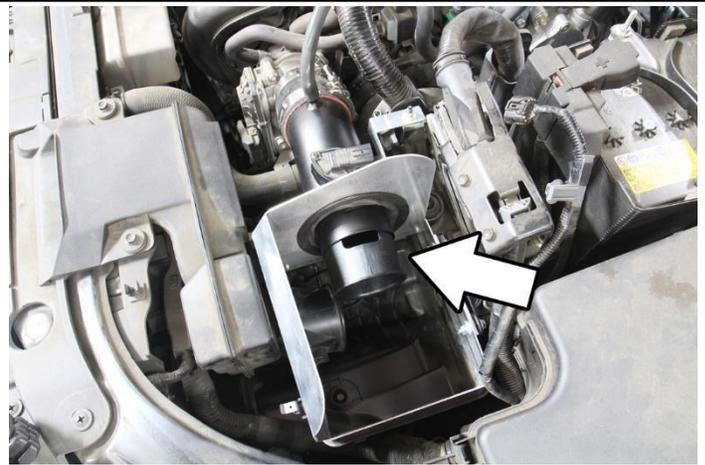
18. Remove the ECU bracket nut located in the image above.



19. Install and secure the intake bracket onto the intake pipe using the provided M6x12mm bolt and washer.



20. Insert the 11mm EPDM hose along with the provided clamps onto the intake barb and the crankcase vent on the valve cover.



21. Insert the provided MAF sleeve into the intake pipe.



22. Install the HPS performance air filter and reinstall the engine cover back into the vehicle.

## **Final Steps**

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

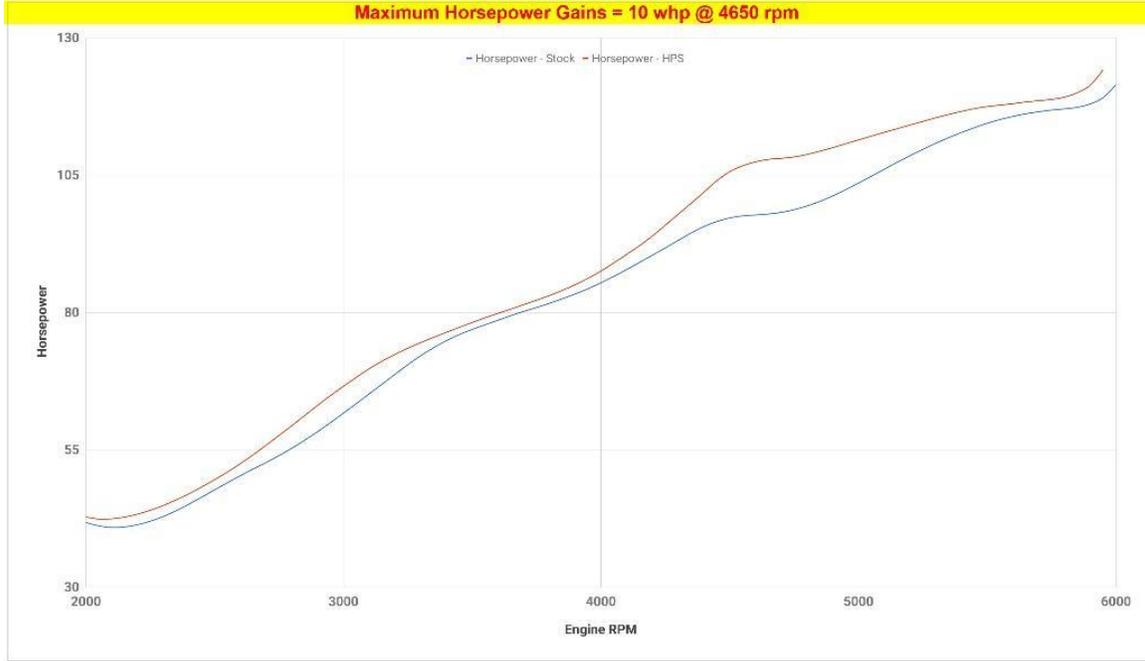
Upon completion of the installation, reconnect the negative battery terminal before you start the engine. Double check to make sure everything is tight and properly positioned before starting the vehicle.

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.

HPS Performance Shortram Air Intake  
2016 Mazda 3 2.0L  
Part Number: 827-686

Maximum Horsepower Gains = 10 whp @ 4650 rpm



HPS Performance Shortram Air Intake  
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Part Number: 827-686

Maximum Torque Gains = 10 ft/lb @ 4650 rpm

