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M7 Speed MAXX-FLO™ Air Intake System
56-312101 - Black Aluminum Housing
56-312201 - Brushed Stainless Housing



Foam Filter Shown



Pleated Filter Shown

M7 Speed engineers and manufactures the highest quality and best fitting Mini Cooper accessories and performance parts available anywhere on Planet Earth! Please inspect your parts when you receive them to verify everything is included and no damage has happened during shipment. Read these instructions completely BEFORE attempting to install this product. If you are not confident you can do the work described or do not have the tools or skills necessary please contact a local M7 dealer (listed on or website www.m7speed.com) or a local automotive accessory installation center to perform this work. We acknowledge not everything is perfect but we work very hard every day to improve our products and make installations easier. If you have any comments please contact M7 Customer Service directly at 704-663-0094. We encourage and welcome all criticism. Thank you.



**FOR YOUR SAFETY INSTALL THIS PRODUCT ONLY WHEN THE ENGINE IS COLD.
THIS WILL PROTECT YOU FROM INJURY AND DAMAGE TO YOUR ENGINE & COMPONENTS.**

Tools & Supplies Required:

- T-25 Torx
- T-27 Torx
- 1/8" hex wrench
- Flathead Screwdriver
- Phillips Screwdriver
- Foamy window cleaner or similar product
- MAF sensor cleaner (optional)

Estimated Install Time (Actual time may vary):
30-60 minutes

Parts Checklist

- ☐ 1 MAXX-FLO® Airbox
- ☐ 2 #44 (3 1/4") Hose Clamps
- ☐ 1 Filter – Pre-oiled Pleated Cotton or 2 Stage Foam
- ☐ 1 Silicone Elbow RED | BLUE | BLACK

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REMOVAL OF THE FACTORY AIR BOX

1. Disconnect the battery.
2. Disconnect MAF sensor connection; (Figure #1)
 - a. The MAF plug on the intake hose. Push down on the small tab on the harness side and gently pull the plug out. Do not pry or damage will occur.
3. Loosen the hose clamp connecting the MAF housing to the turbo inlet hose. (Figure #1)
4. Remove the (2) T-27 screws connecting the MAF housing to the factory intake box.
5. Mark the MAF sensor so it is reinstalled in same flow direction.
6. Remove the MAF housing from the factory air box. Set the MAF housing aside in a safe place. The sensor is delicate.
7. Remove the (3) T-25 screws holding the factory intake box cover to the factory base.(Figure #3)
8. Remove the air box cover and the factory air cleaner element.
9. Fully loosen (1) T-25 screw on the RS (passenger side) of the air box that connects the air box base to the engine.
10. Pull the air box base straight up to disconnect it from the engine. It will take some effort to disengage the base from the interference fit rubber grommets but do not pry on it. Human force is sufficient. Once the base is free, rotate it approximately 1/8 to 1/4 turn towards the rear of the car while at the same time pulling it apart from the factory fresh air pipe. If the grommets come free from the intake manifold reinstall them now. They are need to mount the new MAXX-FLO™.



MAF Sensor Clamp



MAF Sensor Connector

11. (OPTIONAL) Remove the factory fresh air intake hose from the front inlet attachment on the radiator support. With a flathead screwdriver, release the intake hose from the bezel in the front of the car (near the headlight). When the hose is disconnected, remove it from the car by twisting it counter-clockwise out of place. You will no longer need this hose. NOTE: It is recommended you keep all the factory parts to reinstall at a later date if needed.

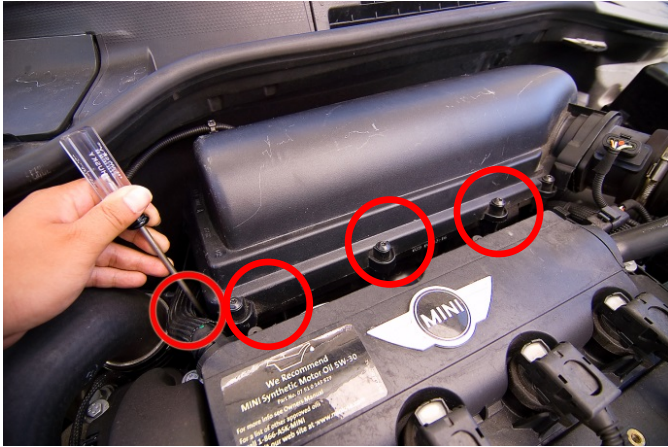


Figure 3" Remove Factory Airbox Cover



Figure 4: Removal of Fresh Air Hose

PREPARATION FOR INSTALLATION

1. (Optional) This is a good time to clean your MAF sensor using a specially formulated sensor cleaner you can buy at any local Auto Parts store.

INSTALLATION

Mount the MAXX-FLO™ to the factory intake manifold at the factory grommet locations.

1. Lubricate the 3 mounting legs on the bottom of the MAXX-FLO™ housing with foaming window cleaner or a very light film of lubricating grease. Push the housing with mounting legs into the same (3) rubber grommets in the intake manifold which located the factory air box base. The MAXX-FLO® will snap into place.
2. Install the silicone elbow and clamps supplied with your kit onto the air tube on the MAXX-FLO®. Do not tighten.
3. Install the MAF housing between the factory air inlet hose and silicone elbow. Verify it is installed in the proper air flow position. The sensor only works in on direction | air flowing from the MAXX-FLO™ towards the turbo.
4. Align everything in the air tract to eliminate any stresses or twists. Trimming of the silicone elbow may be required on some applications to get the best alignment. If necessary you can trim the silicone elbow using masking tape as a guide and a hack saw to cut it. If you cut the elbow thoroughly clean the inside to remove any leftover particles and dirt. Once you are satisfied with the alignment, tighten the (2) hose clamps.

5. Plug in the MAF sensor electrical connector.
6. Install the supplied air filter. Follow the direction on the filter bag. It is very important to thoroughly clean the inside of the filter cuff of all oil. It must be absolutely oil free before it is attached to the adapter tube.



Pleated Filter Shown

7. **Safety check** | Check that all hardware & clamps are tight, all electrical connections are plugged in and all hoses and necessary parts are installed properly.
8. Reconnect battery.
9. **OPTIONAL:** Remove the blocker plate from your scoop if it is still installed. This allows fresh air to enter the engine compartment flushing away heat and supplying air to the intake.

NOTE: The M7 Vortex 2 Scoop is designed to work with this intake system and provides maximum fresh air flow to your engine.