



HI-FLOW INDUCTIONS KIT* – NM.658856 / NM.658856B

[R55] MINI Cooper S Clubman 2008-up
[R56] MINI Cooper S Hardtop 2007-up
[R57] MINI Cooper S Convertible 2009-up

*For vehicles with Mass Airflow Sensor

PARTS INCLUDED:

- | | | | |
|---|--|-------------------------------|----------------------------|
| [1] Stainless steel intake pipe bracket | [1] Stainless steel fresh air hose bracket | [1] Silicone turbo inlet hose | [1] 2.75" Silicone coupler |
| [1] Aluminum intake pipe | [1] Air filter | [3] #44 Hose clamps | [1] #28 Hose clamp |
| [2] SS Button head bolts M6 x 16mm | [1] SS Button head bolt M6 x 10mm | [2] M6 Lock nuts | [2] M8 Lock nuts |
| [2] M8 Washers | | | |

TOOLS & SUPPLIES REQUIRED:

- | | | | |
|----------------------------------|---------------------------|------------------------|------------------------|
| [1] T25 TORX Driver | [1] T30 TORX Driver | [1] 7mm Nut Driver | [1] Screwdriver |
| [1] 10mm Socket or Wrench | [1] 13mm Socket or Wrench | [1] 4mm Hex key wrench | [1] Needle nose pliers |
| [1] Degreaser or contact cleaner | [1] Clean shop rag | | |



1. Pull out valve cover breather hose from OE turbo inlet hose.



2. Remove OE turbo inlet hose from MAF sensor. Use screwdriver to loosen clamp at turbo inlet and at MAF sensor.



3. Disconnect electrical connector from Mass Airflow Sensor (MAF).



4. Separate brake booster line holder from fresh air intake hose. Use needle nose pliers to squeeze tabs and then push out holder.



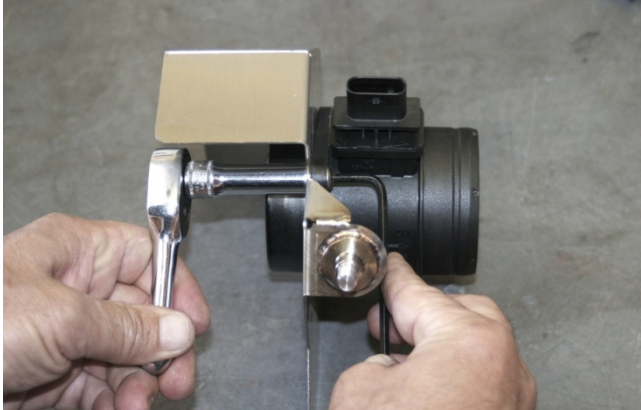
5. Remove T25 TORX screw located on passenger side of air filter box and lift off. **NOTE:** There are [3] pin mounts that are pushed into rubber grommet mounts on intake manifold, so effort may be required to lift air filter box off of mounts.



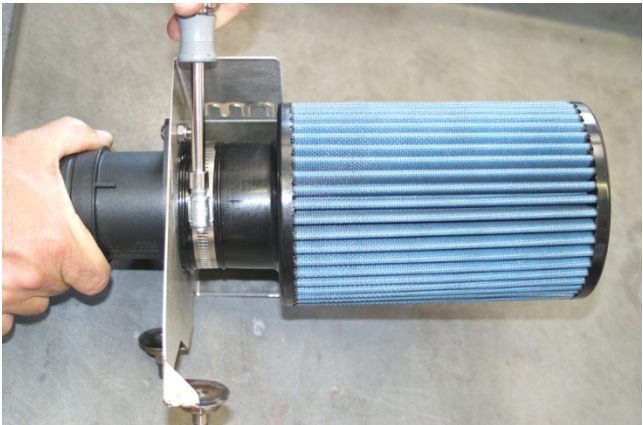
6. Locate fresh air pipe that is attached to air filter box. Disconnect fresh air pipe by rotating the 90° connection counter clockwise and pulling pipe away from air filter box. Remove air filter box from vehicle.



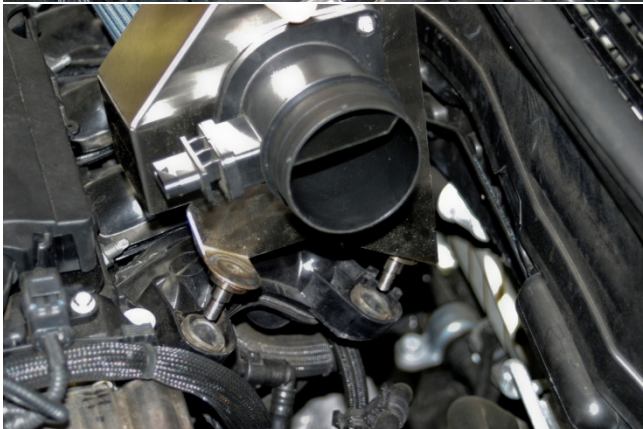
7. Remove MAF sensor from air filter box by removing [2] T30 TORX screws.



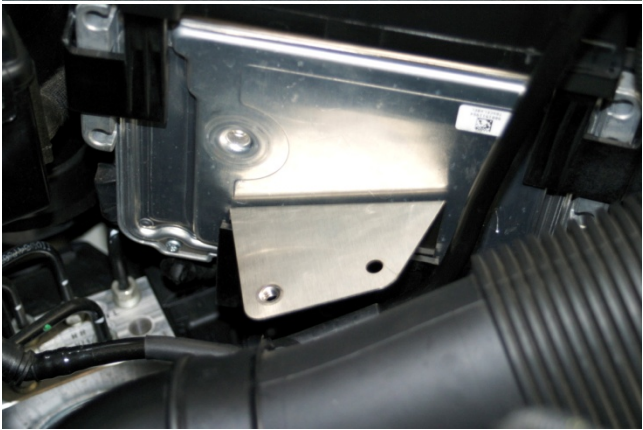
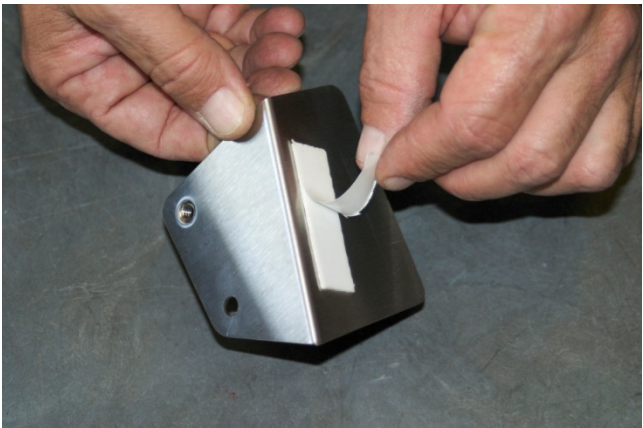
8. Install MAF sensor to NM stainless steel intake pipe bracket using supplied M6 x 16mm button head bolts and M6 nuts. [4mm hex key wrench / 10mm socket or wrench]



9. Using degreaser or contact cleaner and shop rag, clean inner mounting flange of NM filter. Install and tighten filter onto MAF sensor. Position NM logo on end of filter for proper reading orientation.



10. Install NM filter assembly unit onto factory air filter box mounts. **NOTE:** Make sure rubber grommets are still in place and not attached to bottom of the OE air filter box. From bottom side of mounts, install and tighten using supplied M8 washers and M8 lock nuts. [13mm socket or wrench]



11. Remove protective film from double-sided tape on stainless steel fresh air hose bracket. Slide bracket down between ECU and black plastic ECU mount, while keeping double stick tape from touching. With bracket pushed all the way down, press against ECU.



12. Attach brake booster line holder to forward mounting hole in bracket. Secure fresh air pipe to rearward mounting hole using supplied M6 x 10mm button head bolt. [4mm hex key wrench]



13. Install and tighten silicone coupler onto MAF sensor using supplied #44 hose clamp.



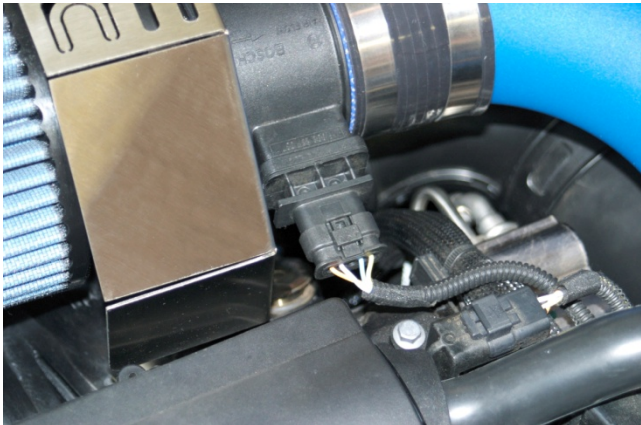
14. Loosely install silicone turbo inlet hose onto turbo using supplied #28 hose clamp. **NOTE:** Do NOT tighten at this time.



15. Loosely install supplied #44 clamps onto both silicone hose ends, then install aluminum intake pipe into silicone turbo inlet hose first and then into MAF sensor hose. Adjust as necessary for clearance, paying close attention to clearance of silicone turbo inlet hose and coolant reservoir bottle. Tighten all clamps. **NOTE:** Do not forget to tighten #28 hose clamp from Step 14.



16. Install valve cover breather into silicone turbo inlet hose.



17. Reconnect MAF sensor electrical connector.



18. Double check complete installation. Test drive and double check all connections.

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