



HI-FLOW INDUCTIONS KIT * – NM.658858 / NM.658858.1

- [R55] MINI Cooper S 2011-up & JCW Clubman 2013-up
[R56] MINI Cooper S 2011-up & JCW Hardtop 2013-up
[R57] MINI Cooper S 2011-up & JCW Convertible 2013-up
[R58] MINI Cooper Coupe 2011-up
[R59] MINI Cooper Roaster 20012-up
[R60] MINI Countryman 2011-up
[R61] MINI Paceman 2013-up

PARTS INCLUDED: NM.658858 / NM.658858.1

- | | | | | |
|---|-----------------------------------|-------------------------------|----------------------|------------------------|
| [1] Stainless Steel Intake Pipe Bracket | [1] SS Duct Support Bracket | [1] Silicone Turbo Inlet Hose | [2] M8 Washers | [1] 25mm SS Hose Clamp |
| [1] Aluminum or Carbon Intake Pipe | [1] Air Filter | [3] #44 SS Hose Clamps | [2] M8 Lock nuts | [1] #28 SS Hose Clamp |
| [2] SS Button Head Bolts M6 x 16mm | [1] SS Button Head Bolt M6 x 10mm | [2] M6 Lock Nuts | [2] Resistor Harness | |

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] 8mm Nut Driver | [1] Heat Gun |



1. Disconnect valve cover breather hose from turbo intake pipe, unclip wire connection then cut off hose clamp and remove plastic fitting.



2. Disconnect vent hose on side of turbo inlet pipe, unclip wire connection then cut off hose clamp and remove plastic fitting. **NOTE: Some vehicles do not have any hose connected to this fitting. Proceed to disconnecting the sensor connector and cap off the Y adapter's smaller end on step # 17 using the provided vinyl cap.**



3. Loosen clamp at MAF sensor to turbo intake pipe and disconnect.



4. 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.



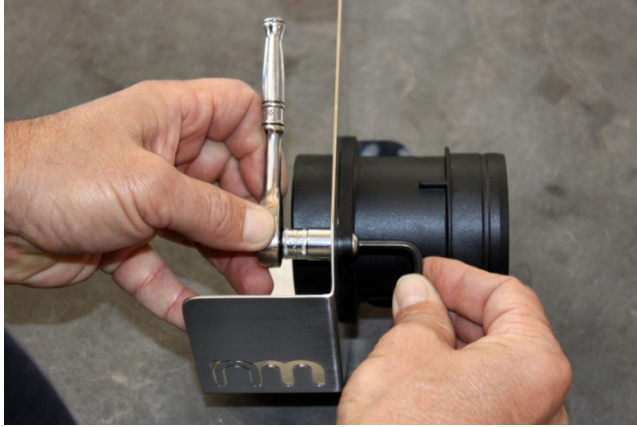
5. Locate fresh air pipe that is attached to air filter box. Disconnect fresh air pipe by rotating the connection counter clockwise and pulling pipe away from air filter box. Remove air filter box from vehicle.



6. Disconnect any wire harness and hose supports on intake tube then loosen clamp at turbo and remove.



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



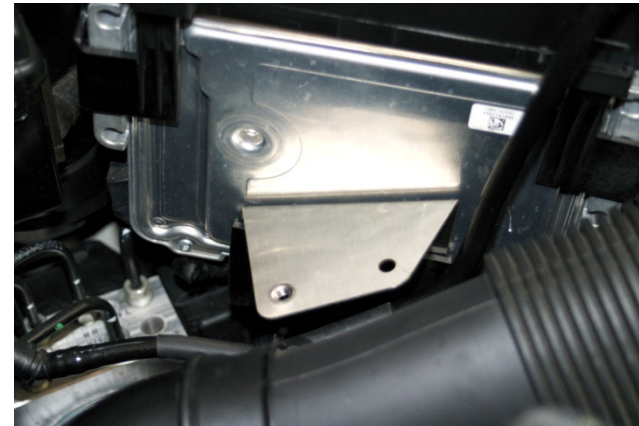
8. Install MAF sensor to NM stainless steel intake pipe bracket using supplied M6 x 16mm button head bolts and M6 nuts. [4mm hex key wrench / 10mm socket or wrench]



9. Install NM SS bracket 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 wrench]



10. Reconnect MAF sensor electrical connector.



11. **2011-3/2012 EARLY N18** 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. **2011-3/2012 Early N18** 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. **3/2012-UP N18** ECU cover removal: Remove 10mm hex bolt then push inward on tabs to remove cover. Remove protective film from double-sided tape on stainless steel intake duct support bracket. Hook bracket on top edge of black plastic case for ECU, positioning at back corner.



14. **3/2012-UP N18** Attach brake booster line holder to rearward mounting hole in bracket. Secure fresh air pipe to forward mounting hole using supplied M6 x 10mm button head bolt. [4mm hex key wrench]



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



16. Connect breather hose with 25mm clamp supplied.



17. Install vent hose to "Y" breather adapter. **NOTE:** Spray inside of hose with WD-40 or equivalent to ease installation.



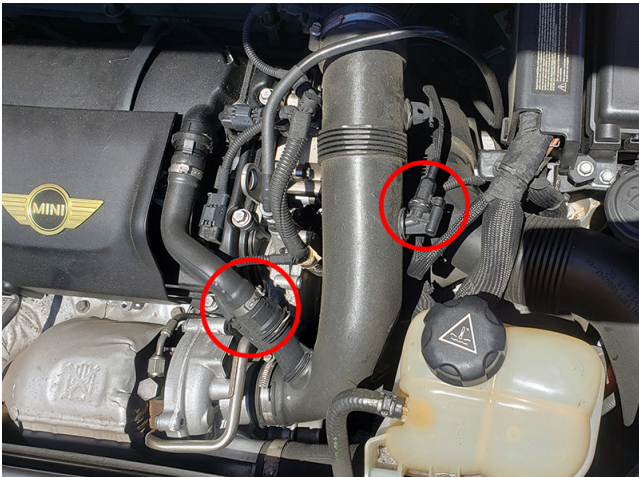
18. Install and tighten silicone hose coupler onto MAF sensor using supplied #44 hose clamp.



19. Loosely install supplied #44 clamps onto both silicone hose ends, then install air 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. Connect breather hose to cylinder head cover.



20. Using degreaser or contact cleaner and shop rag, clean inner mounting flange of NM filter. Install NM filter onto MAF sensor and tighten with long skinny screwdriver thru logo cut-out or from back side of bracket.



21. Locate previously disconnected heater wires from breather hose and vent hose. They are circled on the picture.



22. Install both heater by-pass connectors and secure them with zip ties to the neighboring wire looms.



23. Double check complete installation.