



R56 Cold Air Intake System

080707

Thank you for purchasing the ALTA Performance Cooper S intake system. Persons experienced in the proper operation of MINI engines should only perform installation. *Please read through all the instructions before performing the installation, and please make sure to remove the plastic fire wall trim panel!! Removing the trim panel allows for cool pressurized air from the window scoop to enter the intake.*

SPECIAL NOTES:

- Use of the factory service manual, can be very helpful during the installation. These can be purchased as the dealership, or online. <http://www.realoem.com> has diagrams for the entire car, which can also be helpful.
- Make sure to clean the excess oil from the inside of the filter base. This will ensure that the filter doesn't slip off air box.

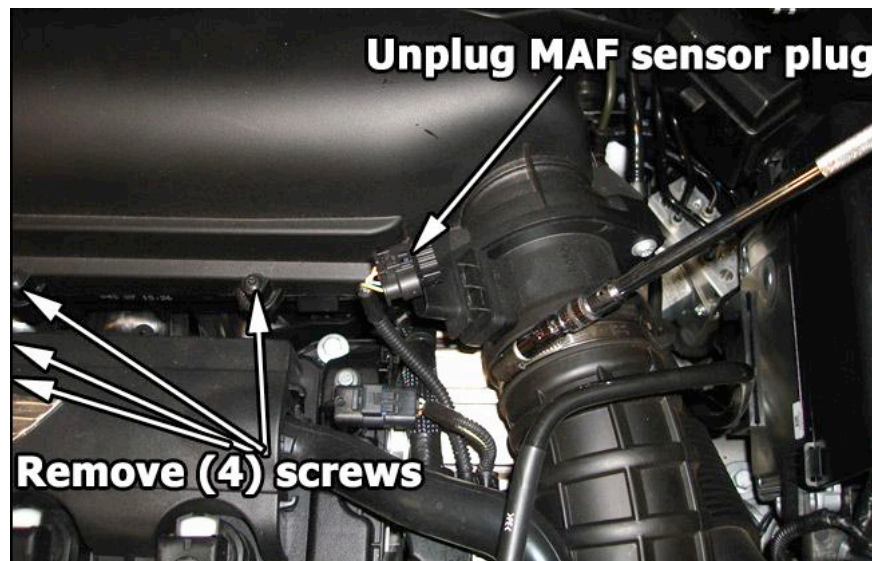
Parts Included with the ALTA R56 Cold Air Intake system:

- (1) ALTA R56 Air Box Shroud (black)
- (1) ALTA Air Filter 2.75" ID
- (1) 2.75" Silicone Elbow
- (1) 3.25"-2.5" Silicone reducer coupler
- (4) Size 48 hose clamps
- (1) Size 36 hose clamp
- (2) M8x40 Hex head bolt
- (2) M8 Flat washers
- (2) M8 fender washer
- (2) M8 Nut
- (20") Bubble on top trim
- (1) ALTA badge

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Removal of factory air box:

- 1) Open hood and disconnect battery (-) terminal. (Battery is located in passenger side window cowl cover)
- 2) Locate MAF sensor housing, and remove hose clamp securing MAF housing to turbo inlet hose. Remove Electrical connection on MAF sensor.
- 3) Remove Air box top from OEM air box bottom. Remove top by loosening 4 torx screws on front side of box. Once loosened, lift front forward and off clips at back of box.
- 4) Unbolt MAF housing from air box top. Take extreme care in not dropping MAF housing, as this is an easily damaged item.



BE VERY CAREFULL WHEN REMOVING MAF SENSOR

- 5) Locate fresh air pipe where it enters air box bottom. This connection releases by twisting roughly 60 degrees, then pulling straight off. There is a large o-ring located behind this flange and can make the tube very hard to remove from air box. Spraying down with some penetrating lube will help removal of pipe.
- 6) Remove torx screw located on passenger side of Air box bottom and remove air box from car. (3) other rubber snaps hold box bottom to intake manifold.

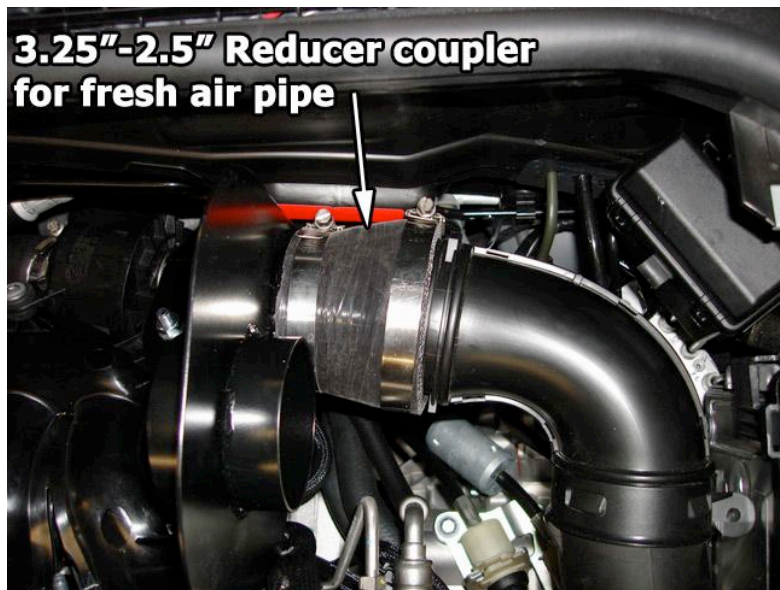
Installation of ALTA intake system:

- 1) Using supplied M8 bolts nuts and washers, install ALTA R56 air box shroud onto intake manifold and run bolts through rubber mounts. Carefully reach under box and manifold to install and tighten nuts and washers. Make sure to leave rubber bushings on manifold as this provides some dampening from vibrations. Tighten hoses clamps on fresh air tube and air box after bottom is fully installed and tightened.



AIR BOX SHROUD BOLTED TO TOP OF INTAKE MANIFOLD USING SUPPLIED BOLTS

- 2) Install supplied Silicone reducer coupler onto fresh air pipe and install hose clamp, but leave loose until ALTA shroud is tightened.



PICTURE SHOWING MAF HOUSING, FRESH AIR PIPE, ALL CONNECTED TO AIR BOX SHROUD (NO SILICONE ELBOW)

- 3) Install MAF housing back into Turbo inlet hose and tighten hose clamp securing MAF to inlet hose. **NOTE: Make sure to install housing in same direction it was removed. The 2 bolt flange should be on the opposite side of Turbo inlet hose.**
- 4) Install supplied Silicone elbow (so ALTA logo is readable) to MAF sensor housing and to upper Air box shroud tube fitting. Make sure to install (2) size 48 hose clamps to elbow to secure hose to air box, and MAF housing.
- 5) Install supplied ALTA filter to inside tube fitting on air box. Make sure to wipe out excess oil from inside of filter. Failure to do may cause filter to fall off of air box. **NOTE: We also recommend mopping up any extra oil around outside of filter. If your filter has too much oil on it, contamination of MAF sensor could happen. IF this happens, spray MAF sensor with non-chlorinated brake cleaner.**



MAF SENSOR AND SILICONE ELBOW INSTALLED TO AIR BOX SHROUD

- 6) Install and trim bubble on top trim to air box edge.
- 7) Re-connect MAF sensor plug and (-) battery terminal and start car.
- 8) If car starts and runs properly, continue to next step.



Hood Scoop removal

- 1) Remove black plastic hood scoop plug by removing OEM scoop. To remove scoop locate plug under hood, and remove to reveal screw. With screw removed, scoop is held in place with snaps, which are very tight! Pull straight up on scoop to remove; this step takes a lot of force.
- 2) With scoop removed, remove black plastic scoop plug by removing screws holding it to scoop. Take great care not to damage paint during this process.
- 3) Install scoop back onto hood, making sure to secure with both the snaps and screw removed earlier. It requires some force to get the snaps back into place.

PARTS TO GO WITH YOUR COLD AIR INTAKE:

- **ALTA R56 Front Mounted Intercooler**
- **ALTA R56 3" catback exhaust**
- **ALTA R56 3" turbo downpipe**

For questions & comments please contact

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