INSTALLATION GUIDE

AGILE OFFROAD
SMARTER THAN DIRT®

INEOS GRENADIER ON-BOARD COMPRESSOR KIT

General Information

Air down anywhere! Agile Off Road's ARB Onboard Air Kit for the INEOS Grenadier allows you to instantly air-up your tires at the conclusion of your off-road adventures! This kit comes with ARB's single motor 12-volt high-performance onboard air compressor. ARB's powerful 100% duty cycle compressor will take only a matter of minutes to air-up your Grenadier tires from the mid-teens to full PSI!

Read the instructions completely before starting the installation process.

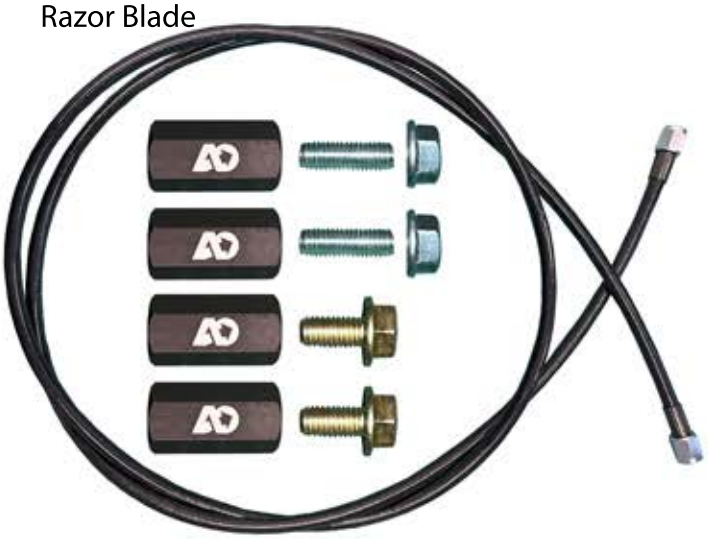
Parts Included

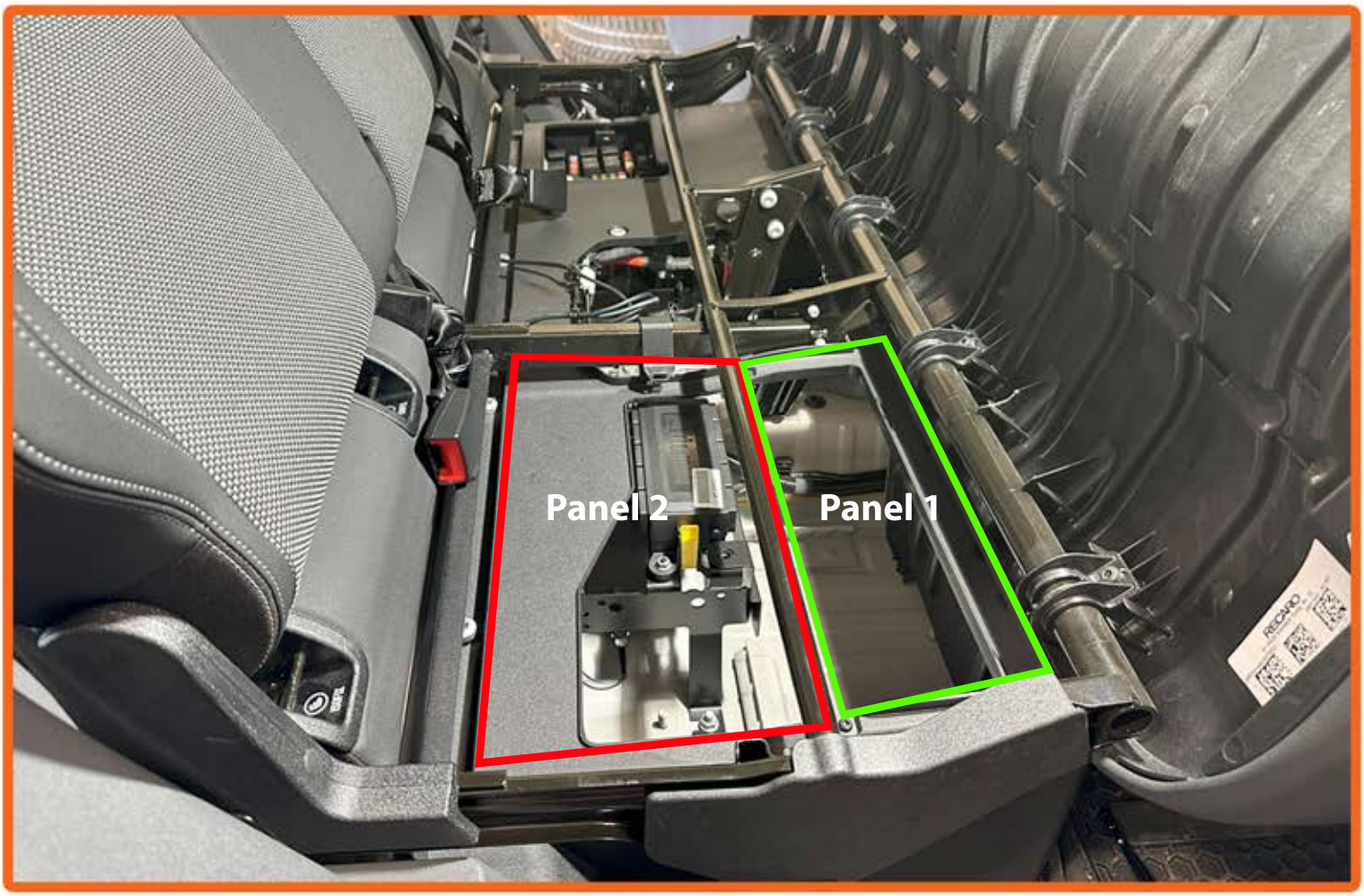
Part # AGA3001 Agile Onboard Air Compressor Kit:

1 x Air Compressor Assembly
1 x Switch/Air Coupler Panel
1 x Threaded Backing Panel
1 x 25' Recoil Air Hose
1 x -4 Braided Airline
4 x Threaded Compressor Stands
2 x M8x1.25x25mm Studs
2 x M8x1.25 Flange Nuts
2 x M8x1.25x15mm Flange Bolts
4 x M5x.08x20mm Button Head Screws
6 x 7.5" Zip Ties
1 x Blue Loctite

Tools Needed

4mm Allen Wrench
13mm Socket/Wrench
19mm Socket/Wrench
T25 Torx
T30 Torx
T40 Torx
T45 Torx
T50 Torx
Zip Tie Cutters
Masking Tape
Fine Blade Saw
Razor Blade
9/16" Open End Wrench
5/8" Open EndWrench
3/8" Torque Wrench
Cable Fish Tape
1/4" Drill Bit
Drill





1. The compressor kit is design to be to be installed under the rear passenger side seat. Pull the lower seat cushions forward. Identify panel 1 and panel 2 as shown above.

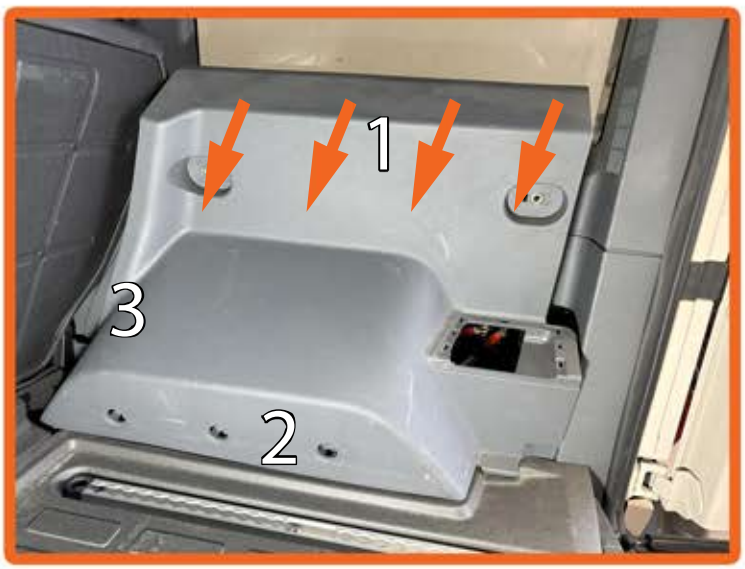
2. Use a T25 Torx bit to remove the two upper screws and the single front center screw holding panel 1. Remove the flooring then use a 10mm socket/wrench to remove the two nuts holding panel 1 to the floor board. Completely remove panel 1.

3. Use a T50 Torx bit to remove the two rear bolts holding Panel 2. Due to the seat frame crossbar, the removal of these two bolts will require a mini ratchet driver and bit.
Detach the two wire harness clips at the rear center of Panel 2 and then remove the panel from under the seat frame as shown above.

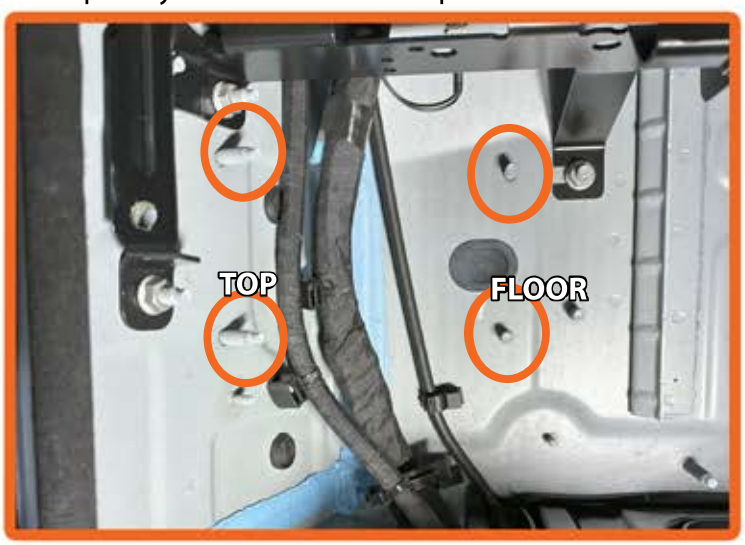
4. Use a T40 Torx bit to remove the door sill anchor then pull the door weather stripping off of the lower half of the door opening. Pull up on the lower door sill molding and remove.

4a. Use a 10mm socket/wrench to remove the side panel bolt .

5. Use a T45 Torx bit to remove the two upper tie down anchors of the rear passenger side wheel well panel. Remove the three lower plugs and then use a 10mm socket/wrench to remove the three lower nuts.



6. Pull straight back on the upper part of the wheel well panel (1) and then pull straight back on the lower part (2). Then carefully pull on the front part of the wheel well panel (3) that goes behind the side of the seat back. Completely remove wheel well panel.



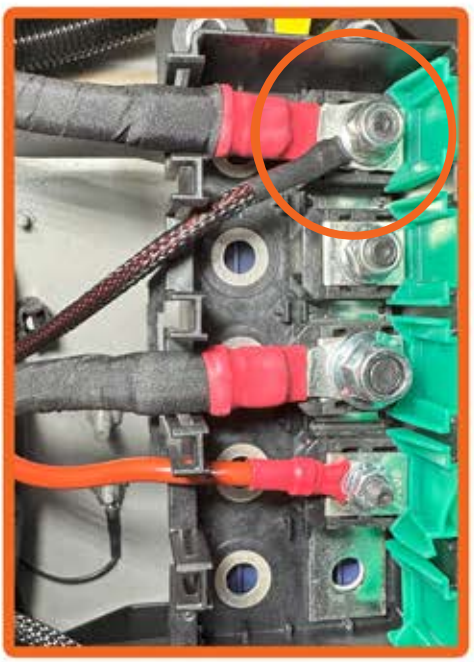
7. Locate the four factory 8mm studs under the passenger seat. Use a19mm socket/wrench to install the four supplied compressor stands onto the studs. Torque to 20 ft lbs. Install the 2 supplied M8x1.25 studs onto the two top compressor stands. Leave approx. 1/2" of stud protruding from compressor stands. *Use Blue Loctite on all mounting hardware.*

8. Install the compressor assembly onto the compressor stands starting with the top studs. Install the two supplied M8x1.25 flange nuts to the top studs. *Hand Tighten Only* Apply Blue Loctite to all mounting hardware.*

9. Use a 4mm allen wrench to loosen the two motor mount screws then rotate the compressor counter-clockwise. This will allow for easy access to lower mounting bolts.

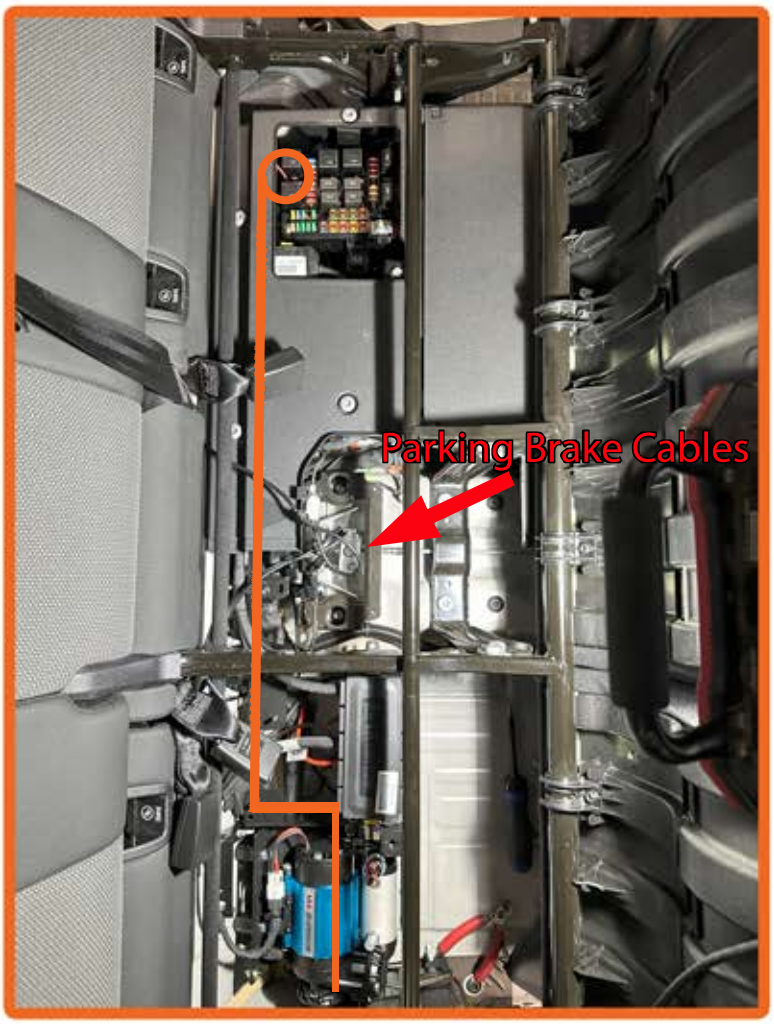
10. Install the two supplied M8x1.25x15mm flange bolts. Torque to 20 ft lbs. Rotate the compressor back to original position and tighten the motor mount screws. Torque to 2.2 ft lbs. Torque the top two compressor plate M8 flange nuts to 20 ft lbs. *Apply Blue Loctite to all mounting hardware.*

11. Locate the fuse box and remove the cover.



12. Use a 13mm socket/wrench to remove the driver side cable nut. Install the compressor 12V power cable to stud. Re-install nut. Torque to 18 ft lbs.

13. Use a 10mm wrench/socket to remove the ground cable nut. Install the compressor ground cable. Re-install nut. Torque to 6 ft lbs.



14. The compressor 12V key hot wire is pre-wired with a 10 amp mini fuse. Route the 12V key hot wire under the seat base panels from the compressor to the factory fuse box as shown. Use the supplied zip ties to securely fasten the wire. ***Avoid the parking brake cables*** Locate the empty fuse slot as shown above.

15. Insert the fuse into the slot as shown. ***For the circuit to be protected, the fuse MUST be installed as shown***

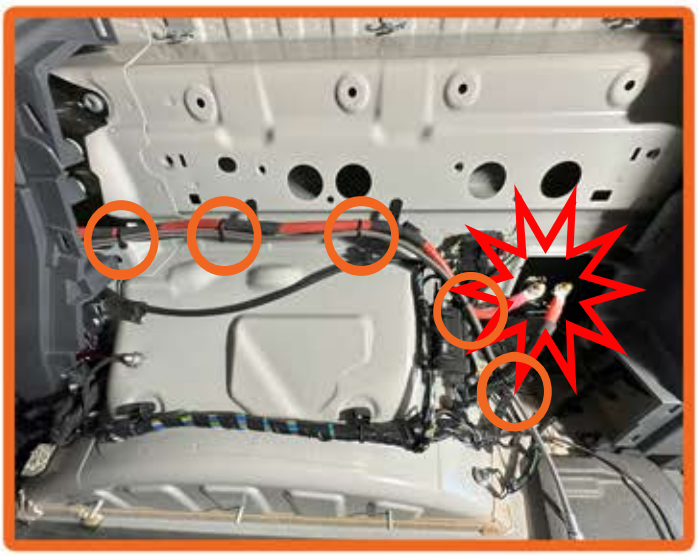
16. Use a 9/16" open wrench to install the supplied braided airline to the compressor fitting. Use a 5/8" open wrench to hold the compressor fitting while tightening the airline. *No sealant required on airline fitting. *

17. Disconnect the power switch from the switch harness. ***Consult the switch wiring diagram on pg 10 when re-connecting switch to harness***



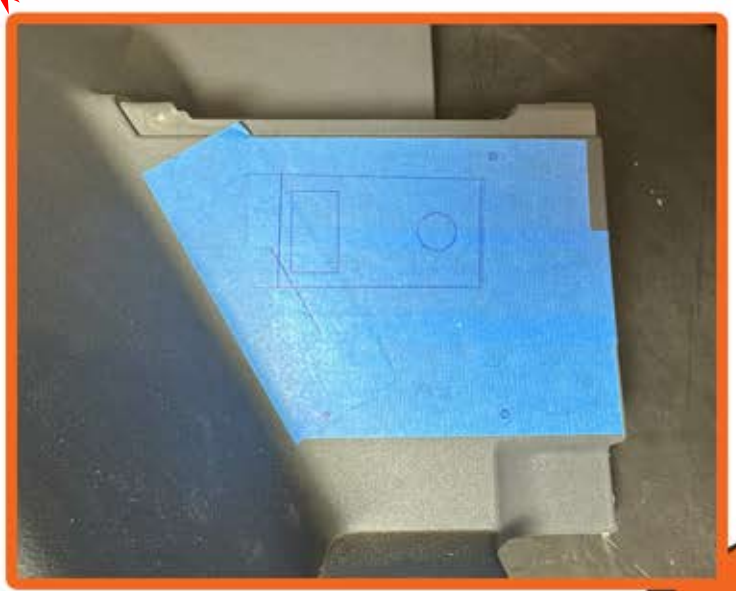
18. Route the airline and the switch harness under the seat frame and through the side panel. Use a cable fish tape to route both the airline and the switch harness to the rear of vehicle.





19. The airline and switch harness should follow the same route as the existing red battery cable. Use the supplied zip ties to securely fasten the airline and switch harness to the red battery cable.

THE CABLES IN THE RED STAR ARE HOT - AVOID ANY CONTACT

20. Apply masking tape to the bottom right corner of the wheel well panel and then use the supplied template to mark the four mounting bolt holes and the center section cutout

21. Use a 1/4" drill bit to drill the four Switch/Air Coupler Panel mounting holes. Use a fine blade saw to cut out the rear of the Switch/Air Coupler Panel as shown. Use a T25 Torx bit to install the Switch/Air Panel to the wheel well panel using the four supplied M5x.08x20 bolts and the Threaded Backing Panel.

22. Place the wheel well panel back into vehicle. Use a 9/16" open wrench to attach the airline to the air coupler then re-connect the switch using the diagram on page 10. Turn on the vehicle ignition and test the compressor. The compressor should power on and then cycle off after a few seconds. Test for air leakage at rear of coupler.

No sealant required on airline fitting.

Use soapy water to check fittings at compressor and at rear air coupler.

23. Re-install the wheel well panel using the factory hardware. Refer to page 5 section 6 and re-install panel in reverse order.
Re-install the passenger side door weather stripping, re-install the factory bolt to the rear side panel below the lower sill molding then re-install lower sill molding. Refer to page 4 section 4.

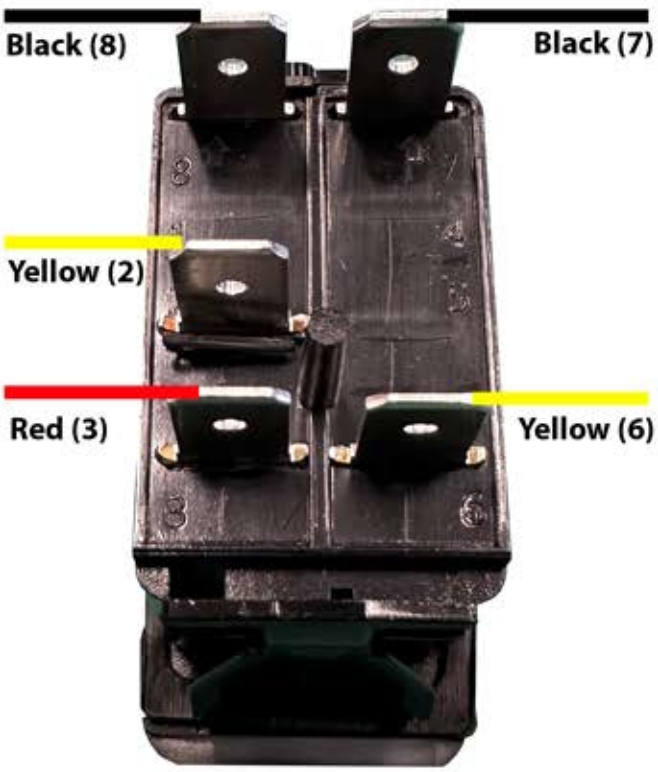
24. Re-install Panel 2 from pg. 3. Panel 2 will need to be installed from the top of the seat base frame.

Re-install Panel 1 from pg. 3 using the factory hardware.

Re-attach the factory wire harness clips to Panel 2 from pg. 4.

Re-install the factory floor to passenger side floor.

Switch Wiring Diagram



Actual Size 7.375" x 4.75"

Set to Print to 100% Scale