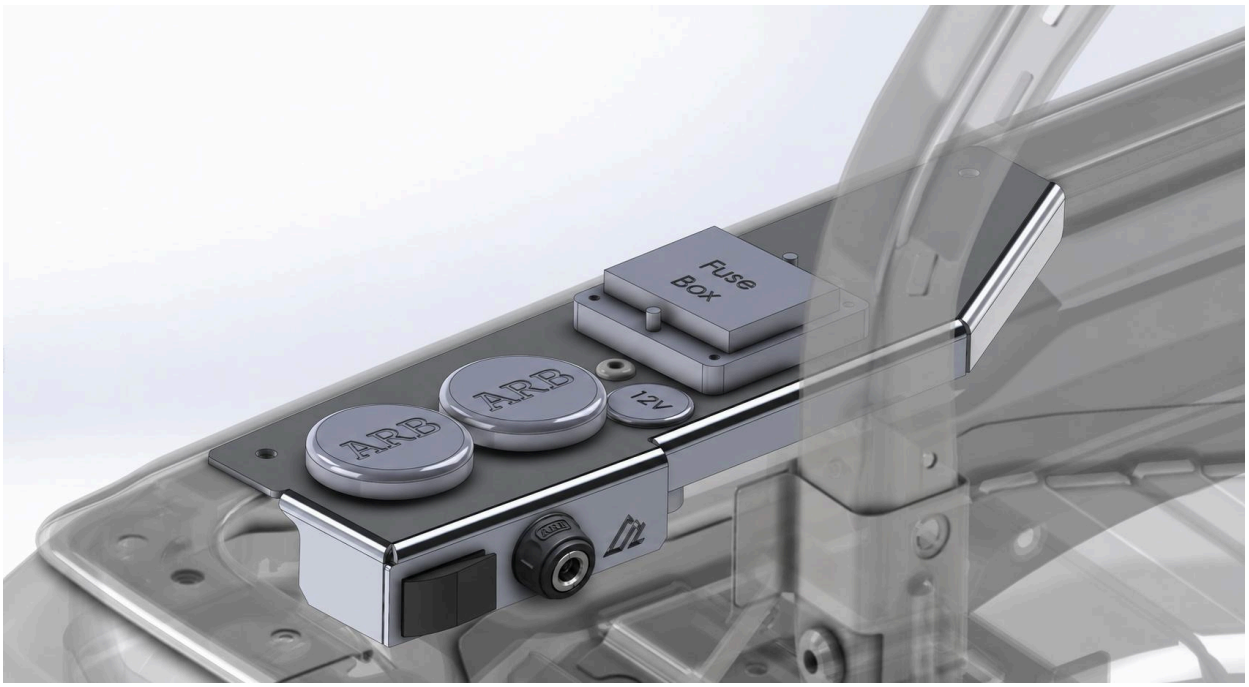
INSTRUCTIONS

Jeep JL ARB Dual Compressor Remote Kit

Thank you for purchasing from AAL! We greatly appreciate your trust in our company. We take that purchase and your commitment to us very seriously. If you have any questions along the way, please don't hesitate to give us a call at 385.202.4188.



Setup

This kit can be installed with the compressor already installed into the AAL ARB Dual Compressor Bracket. However, if you have yet to install the compressor into the bracket, it will be easier to install the fittings onto the compressor before installing the compressor. There are countless ways to utilize the fuse panel and the 12 DC socket. We do not specifically address wiring the fuse panel or DC socket, but the most common way to do so would be to wire the fuse panel directly into a strong 12V source (ex. the Auxiliary Battery) and wire the 12V socket directly to the auxiliary fuse panel.

Without Voltmeter Kit includes:

- 1 × 40-inch braided JIC pressure hose
- 2 × 40-inch lengths of black 3/8-inch OD air tubing
- 2 × 90° push-to-connect compressor fittings
- 2 × straight push-to-connect filter bulkheads
- 1 × 90° NPT-to-JIC compressor outlet fitting
- 1 × ARB -4 JIC bulkhead quick coupler
- 1 × 90° JIC coupler fitting
- 1 × 12V receptacle socket with cap

With Voltmeter Kit includes:

- 1 × 40-inch braided JIC pressure hose
- 2 × 40-inch lengths of black 3/8-inch OD air tubing
- 2 × 90° push-to-connect compressor fittings
- 2 × straight push-to-connect filter bulkheads
- 1 × 90° NPT-to-JIC compressor outlet fitting
- 1 × ARB -4 JIC bulkhead quick coupler
- 1 × 90° JIC coupler fitting
- 1 × 12V receptacle socket with cap
- 1 × digital voltmeter
- 1 × red push-button switch

Updated ARB Coupler Design

This kit now uses an ARB -4 JIC bulkhead quick coupler with a 90° JIC fitting. This assembly replaces the previous brass bulkhead, quick coupler, and adapter arrangement.

Some photos show the previous coupler design. Refer to Step 8 for the current coupler installation.

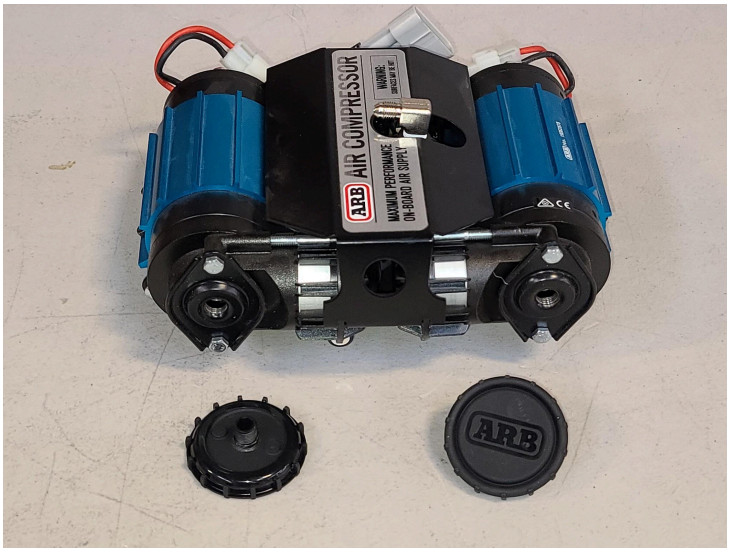


Note

This set of instructions does not address wiring the compressor. Please refer to the instructions that came with your compressor to properly wire the compressor. The compressor switch (supplied with your compressor) should be installed into the switch opening in the remote bracket.

Step 1 - Remove Filters from ARB Dual Compressor

You should be able to remove these by hand. You may need to squeeze the edges of the outer component as it is a separate part from the threaded component and can sometimes spin freely while the threaded component does not spin. Be careful not to damage the threads. They are plastic.



Step 2 - Install Fittings On Compressor

Install the 90° NPT-to-JIC outlet fitting on top of the compressor with the JIC end pointing left when the filter ports face down. Apply compressed-air thread sealant to any NPT threads that lack pre-applied sealant. Keep sealant and PTFE tape off all JIC connections.

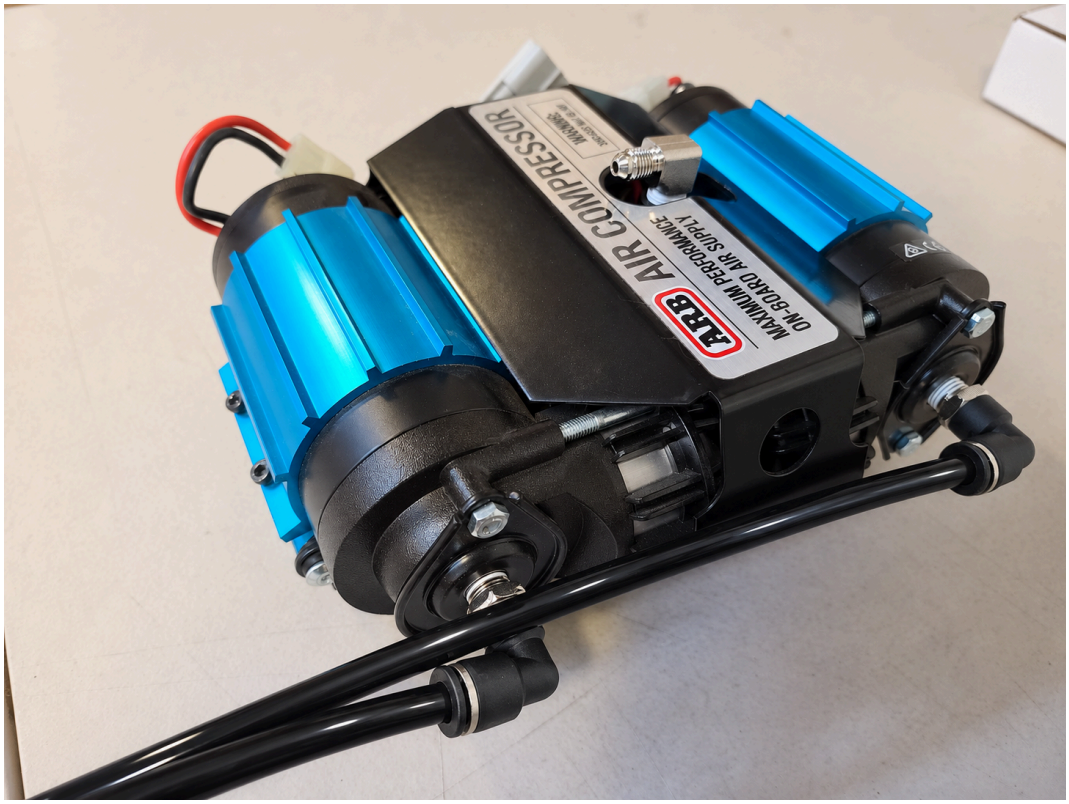


Install the two 90° push-to-connect fittings in place of the original ARB intake filters.



Step 3 - Install Air Lines

Connect the braided pressure hose to the JIC outlet on top of the compressor without tape or sealant.



Step 4 - Locate Compressor

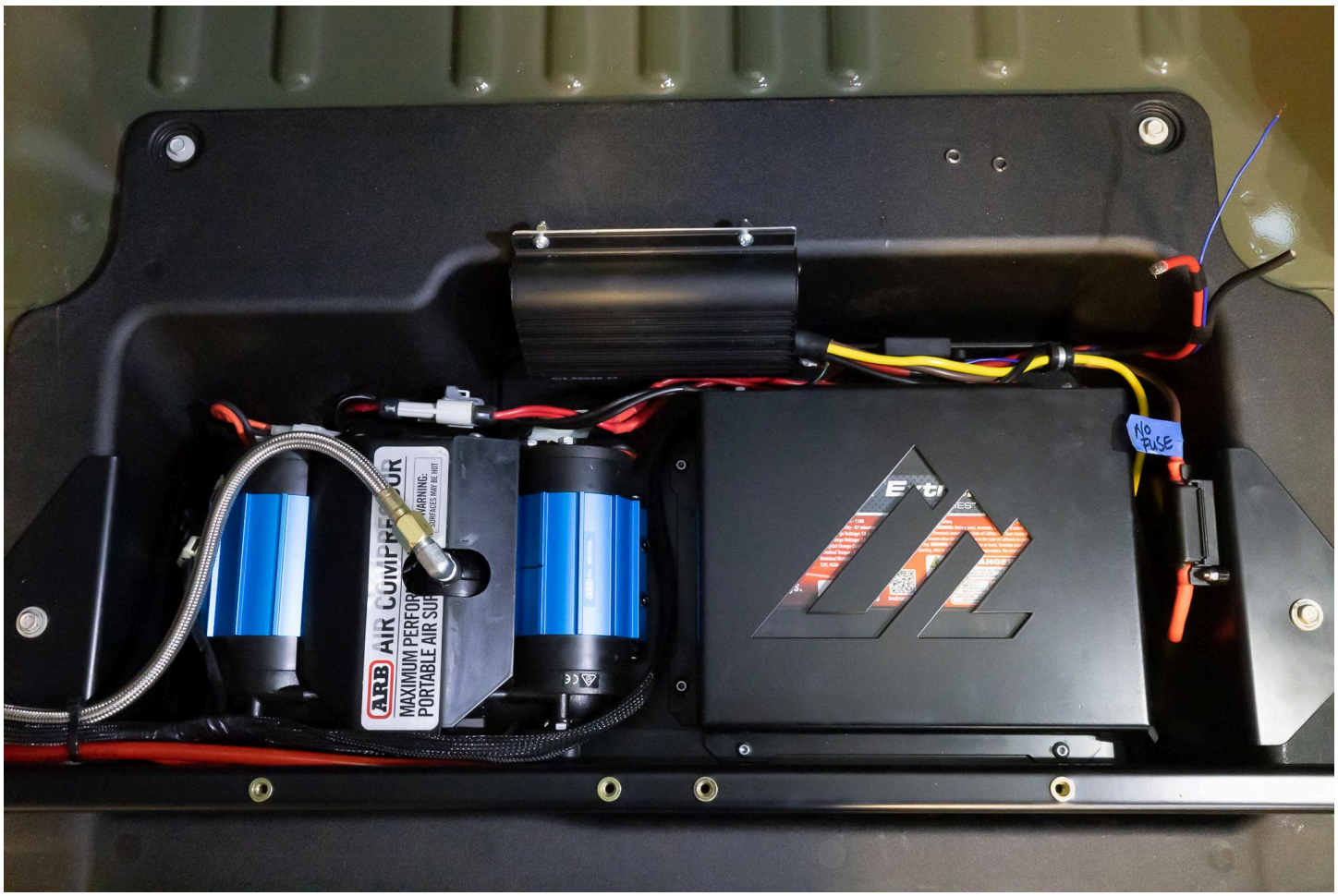
If your compressor is not already installed into the bracket, now is the time to do that. Do so by using the black bolts that shipped with your compressor. The bolts will go up from the bottom of the bracket into the black bracket attached to the ARB compressor. Refer to the photo in Step 6 below for the orientation of the compressor.

Step 5 - Remove Driver's Side Rear Plastic

The first thing you need to do here is pop off the bezel around the seat belt strap. This bezel keeps the two pieces of the wheel well connected together. Then, pry the plastic wheel well cover free from the vehicle. There are several clips that will make a popping noise when being removed. Then, disconnect the wires running into your OEM 12V receptacle. With the plastic removed, turn it upside down and trim away the plastic around the hole identified below. The extra clearance will be needed to allow the air lines and wiring to pass through.



Step 6 - Locate Air Lines and Wires



Now is the time to wire your compressor if that has not been done. Please refer to the wiring instructions that came with your compressor. The switch harness should be routed with the air lines during this step.

The air lines, wires, and switch wiring should run beneath the carpet and up/behind the wheel well plastic (previously removed).

Route the pressure line, and then the black 3/8-inch OD intake tubing to the remote bracket, leaving slack and avoiding sharp bends. Cut both tubes square to fit and push them fully into the fittings.

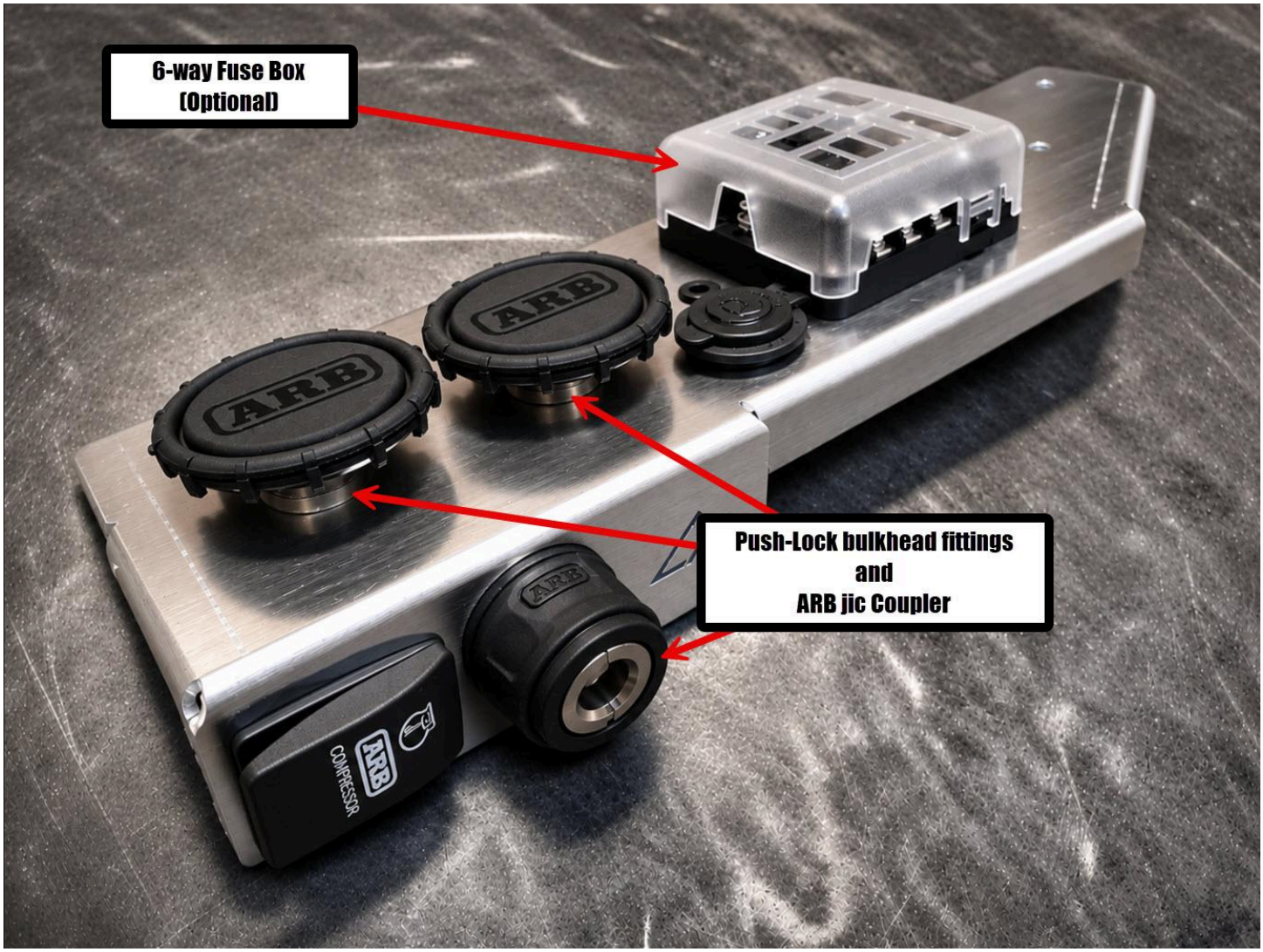
Now would be a good time to run any additional wiring you need for your specific configuration of the auxiliary fuse panel and 12V socket.

Step 7 - Reinstall Rear Plastic Components

Route the hoses and wiring through the hole in the plastic component. Next, reattach the wires for your OEM 12V socket. Then, reinstall the plastic wheel well cover paying close attention to the alignment of the locating tabs. Finally, reattach the bezel around the seat belt strap.

Step 8 - Prepare Remote Bracket

Remote bracket shown in the non-voltmeter configuration.



Thread the two relocated ARB intake filters into the silver straight push-to-connect bulkhead fittings. These filter connections do not require thread sealing tape.

Insert the ARB -4 JIC bulkhead quick coupler through the remote bracket. Apply medium-strength blue threadlocker to the retaining nut threads, then install and tighten the nut to secure the coupler.

Install the 90° JIC fitting onto the back of the coupler, then connect the 40-inch braided pressure hose to the fitting. Do not use thread sealant or PTFE tape on either JIC connection.

Voltmeter (if purchased)
If your Remote Bracket is equipped with the Voltmeter, now is the time to wire that to your power source (or directly to the fuse block). The positive wire from the voltmeter will already be wired to the red push button switch. You should supply positive 12V power to the other side of the switch. This power can come directly from the auxiliary fuse panel (if purchased) or can come directly from the auxiliary battery. The black wire from the voltmeter should be connected to a ground source.

Filter and hose layout shown. Previous coupler configuration shown.



Step 9 - Final Installation

Here is what the final installation should look like. *Previous coupler configuration shown.*



Thank you!
Thank you again for your purchase. At American Adventure Lab, we strive to improve anywhere we can. If you experience any issues with this product or these instructions, please let us know.

If you have any questions or concerns, please don't hesitate to reach out to us at 385.202.4188 or via email at Support@erp.Adventurelab.com.