



Instructions

JL 2/4 DOOR TAC SYSTEM (Tailgate Air Command System)

Thank you for purchasing your JL TAC System 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.

****Please read these instructions thoroughly before starting this project.****

What's included:

**** This parts list will include everything you need to install the TAC System WITH the APEX hose reel. If you did not purchase the APEX hose reel, you will have a couple left over parts.****

● Backplate w/LED strip	1	● M4x12mm Pan head bolts	4
● 8"x12" Molle panel	1	● M6 Nylon washer (black)	2
● Compressor case	1	● M6 Nylon locking nuts	2
● Fold down tray	1	● M5 Nylon locking nuts	2
● Air chuck mounting plate	1	● M4 Nylon locking nuts	4
● Latch, spring loaded	1	● 1" Round Adhesive Pads	2
● Mounting bracket, long	1	● ARB -4 Air Chuck	1
● Mounting bracket, short	1	● "T", 1/4 NPT/-4 Male/-4 Male	1
● M8x16mm Pan head bolts	2	● -4 JIC Cap	1
● M8x25mm pan head bolt	1	● -4 SS Braided Hose, 12" long	1
● M6x14mm Pan head bolts	25	● -4 SS Braided Hose, 17" long	1
● M6x14mm Flange head bolts	2	● 90* -4 Male to -4 Female	1
● M5x10mm Pan head bolts	2	● 90* 1/4" NPT to -4 Male	1



It is **RECOMMENDED** that our Rear Mount Wiring Kit be purchased and installed by a qualified technician.

Let's get started

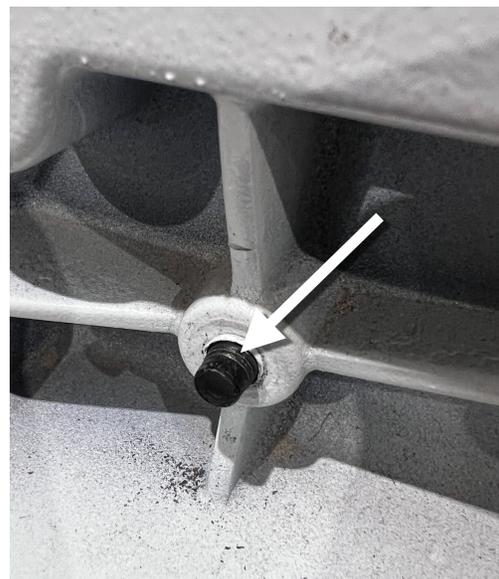
Remove the spare tire. *Note: If you have an aftermarket spare tire mount or spare tire delete, it may be necessary to remove them.*

Next, on the inside, remove the factory plastic tailgate cover.

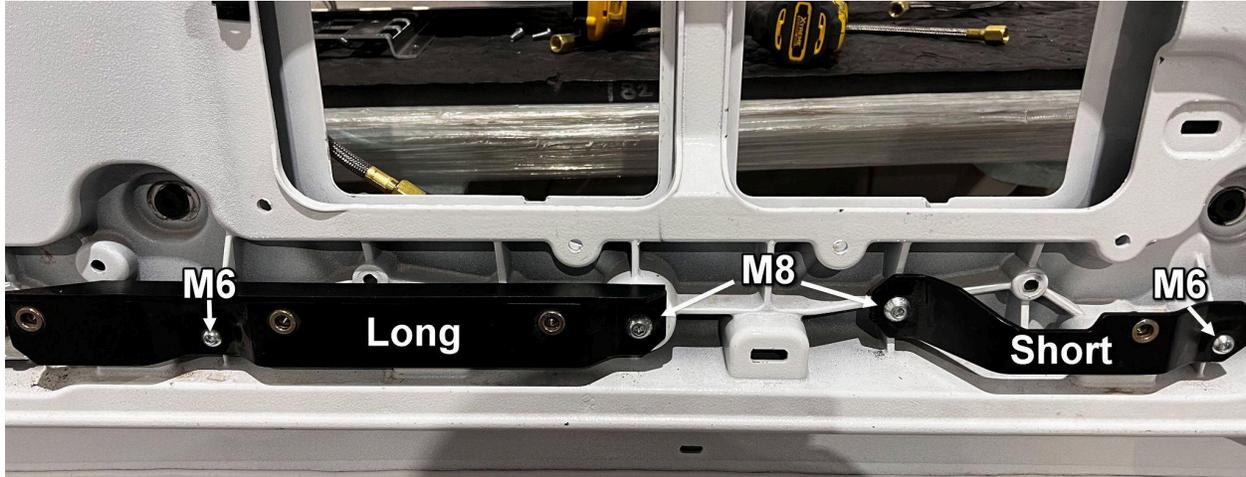
Now, remove the two exhausters (those flappy vent things). Do this from the inside of the tailgate by pressing down on the two tabs located at the top of the exhauster and pushing with light pressure outward. Do this for both. **DO NOT DISCARD YOU WILL NEED TO REINSTALL LATER.**



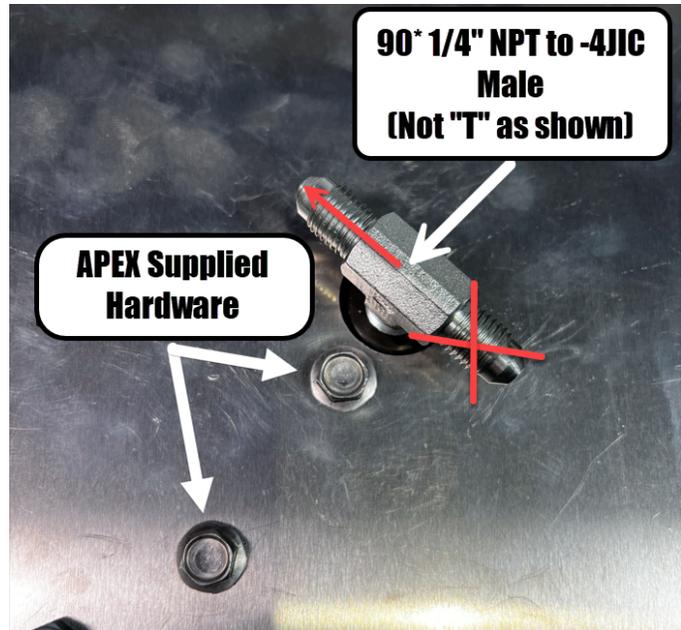
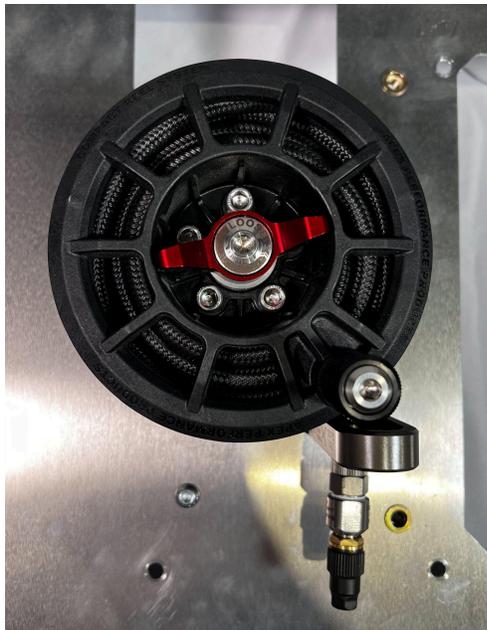
You may notice that one of the 8mm bolts on your tire carrier is protruding through to the inside of the gate where the short bracket will attach. If this is the case, you will need to remove that bolt and replace it with the supplied M8x25mm pan head bolt.



Your installation kit includes two mounting brackets, one long and one short. These will mount to the lower portion of the tailgate as shown with the supplied hardware. Each bracket will use one M6x14mm pan head bolt and one M8x16mm pan head bolt. ***It is recommended that a medium strength thread locker be used on the hardware installed on the tailgate.***



Next, if you purchased the hose reel, install it to the back plate with the supplied hardware from Apex Performance. You can now also install the 90° fitting to the back of the hose reel. Be sure to use teflon tape to seal the fitting. Orient the fitting so that it is pointing at about 10 o'clock when tight. *The image below shows a "T" installed, but we have since changed this configuration.*



Install the air chuck mounting bracket to the back side of the back plate with the supplied M4x12mm pan head bolts and M4 nylon lock nuts as shown. This bracket is designed to be ARB Pressure Control ready but is not required. Next, install the air chuck and and 90° fitting as shown and tighten. The 90° fitting should be pointed as shown. Next install the 17" SS Braded Hose to the fitting and tighten. *If you purchased your TAC System with the ARB Pressure Control Kit, refer to those instructions at the end of this .pdf and integrate that installation into this one.*



REMEMBER, this installation requires the use of our Rear Mount Wiring kit to insure the safe and proper operation of the compressor and pressure control.

Now is the time to start laying out all of your wiring that will live in the tailgate. Again, refer to your ARB wiring diagram for the proper connections.

Below is the complete ARB Dual Compressor harness as it should look laid out in the tailgate. It will run along the factory harness. Use caution that when you lay it out it will not get pinched between the gate and the back plate.

Take note of the position and routing of the wiring.

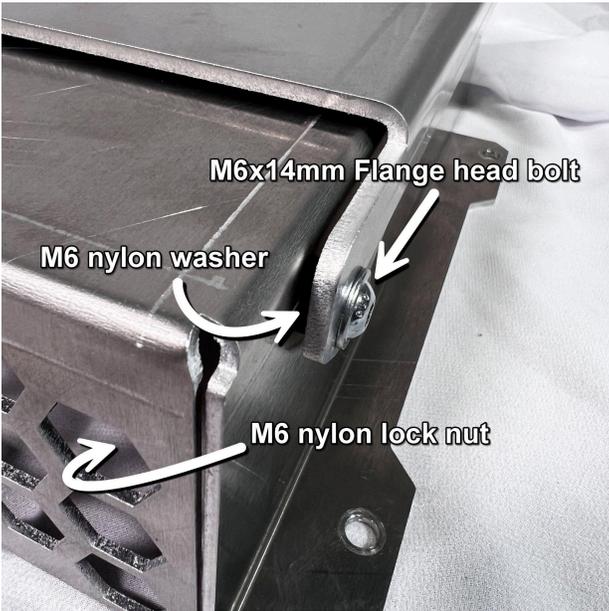


Compressor Case Assembly

Starting with the latch, assemble as shown with the two supplied M5x10mm Pan head bolt and M5 nylon locking nuts.



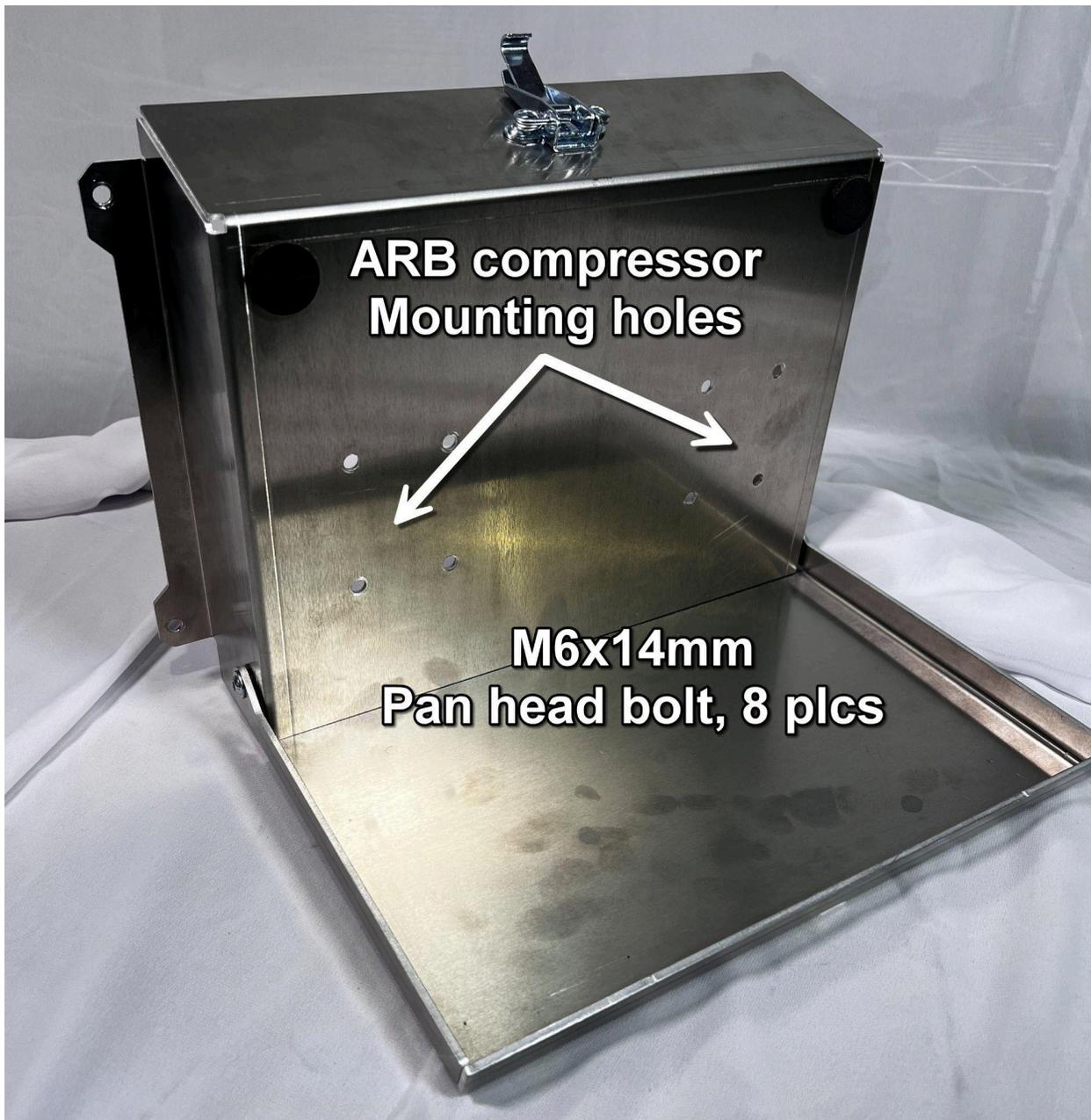
Assemble the compressor case tray as shown using the two, M6x14mm Flange head bolt, M6 black nylon washers and M6 nylon lock nuts. DO NOT OVER TIGHTEN. The tray should move with light to no resistance.



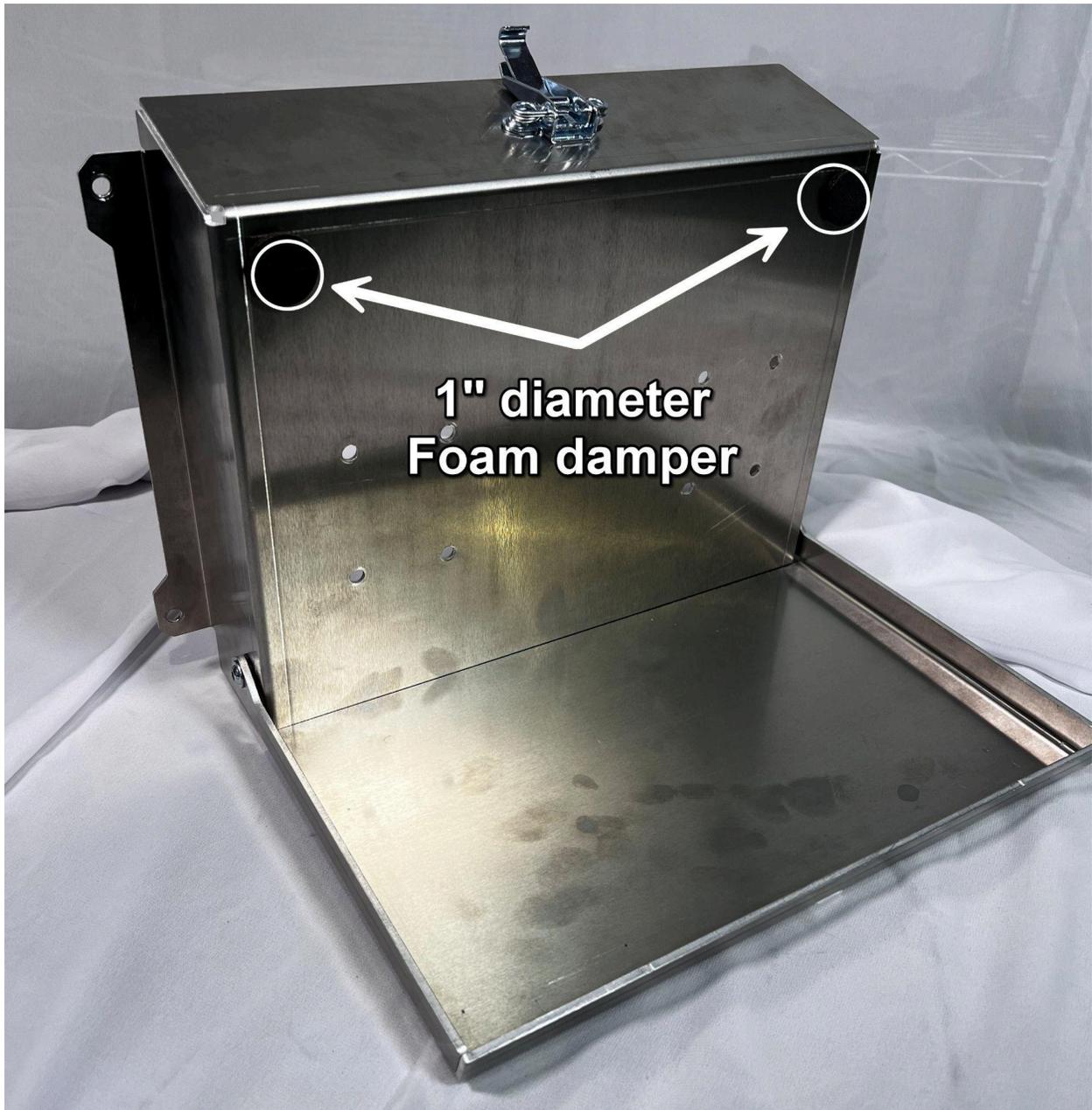
Assemble the air filters to your compressor per the ARB instructions.

Lay the compressor on the table with the air filters away from you and the compressor mounting holes facing upward. Open the tray and lay the case over the top of the compressor so that the latch and air filters are pointed away from you.

Install the eight M6x14mm Pan head bolts and tighten.



Install the two 1" round adhesive foam pads to the compressor case as shown.



Let's install the back plate.

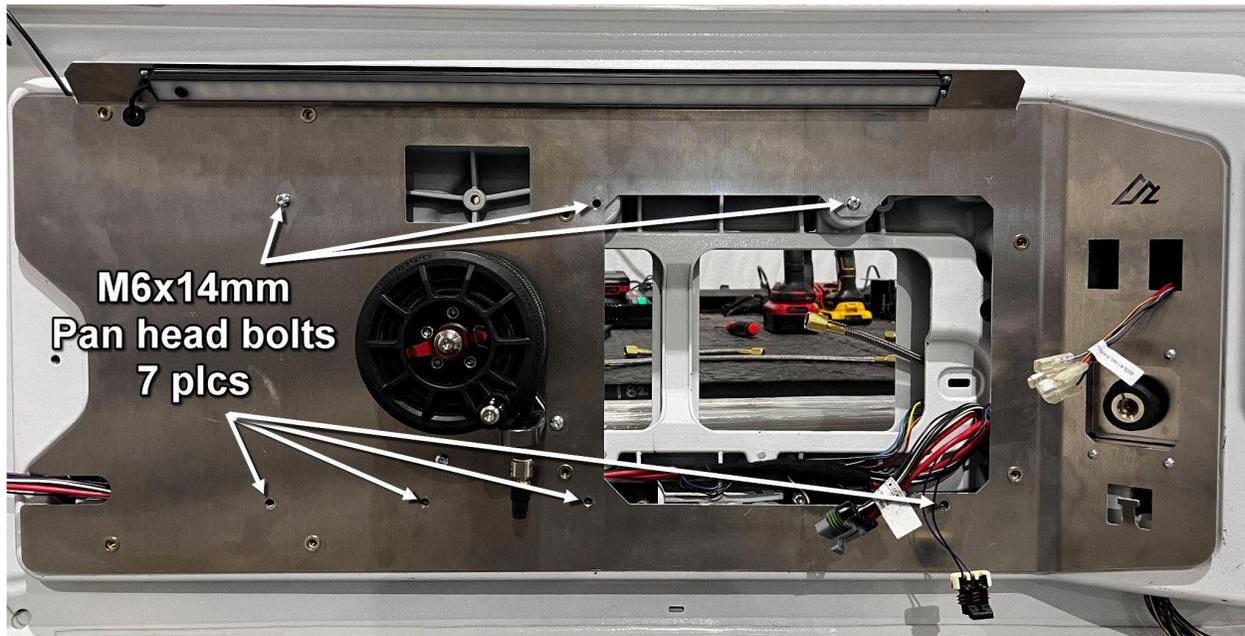
At this point you will only have the pre-assembled LED light, the previously installed Apex hose reel and the air chuck, air chuck mount, 90° fitting and hose on the back plate.

On the tailgate itself you will have the mounting brackets and the wiring harness.

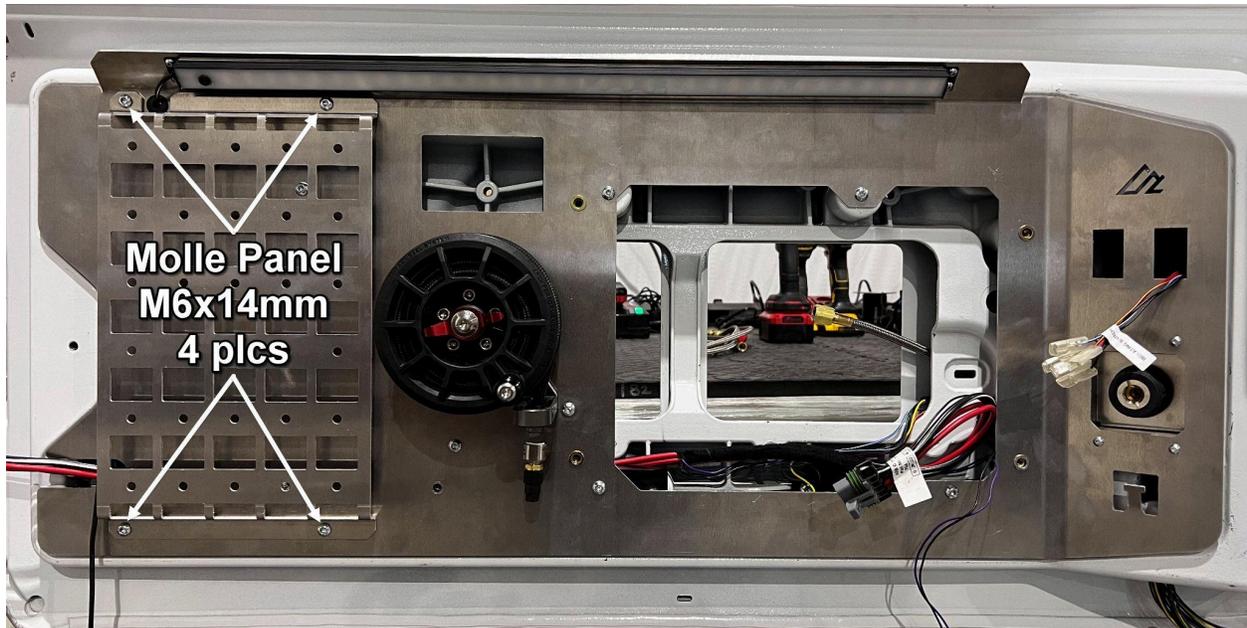
Position the back plate close to the tailgate and feed the switch wiring through the switch opening.

Next, take the loose end of the 17" Braided Hose fitted to the chuck and feed it through the opening on the bump out and around behind and between the inner structure of the tailgate as shown. The loose end of the braided hose should be positioned in the large square opening on the right side.

Pull the large 5 pin connector and the 3 pin black connector through the compressor opening and start two of the M6x14mm pan head bolts in the top mounting holes.

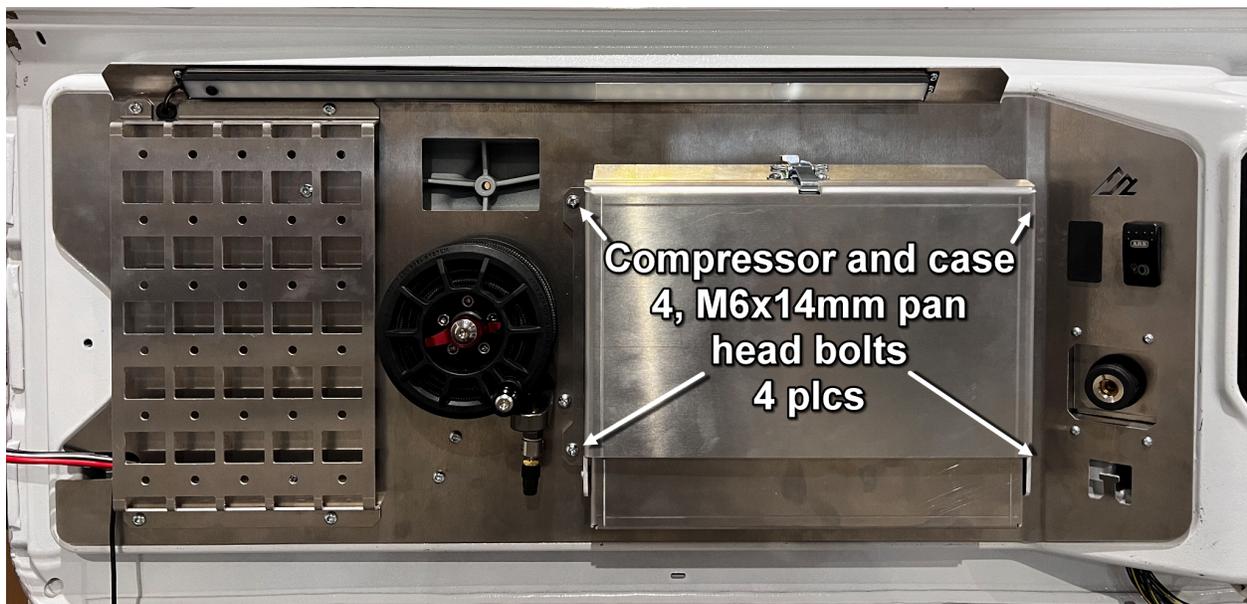


Install the Molle panel to the left side of the back plate using the 4, M6x14mm pan head screws.

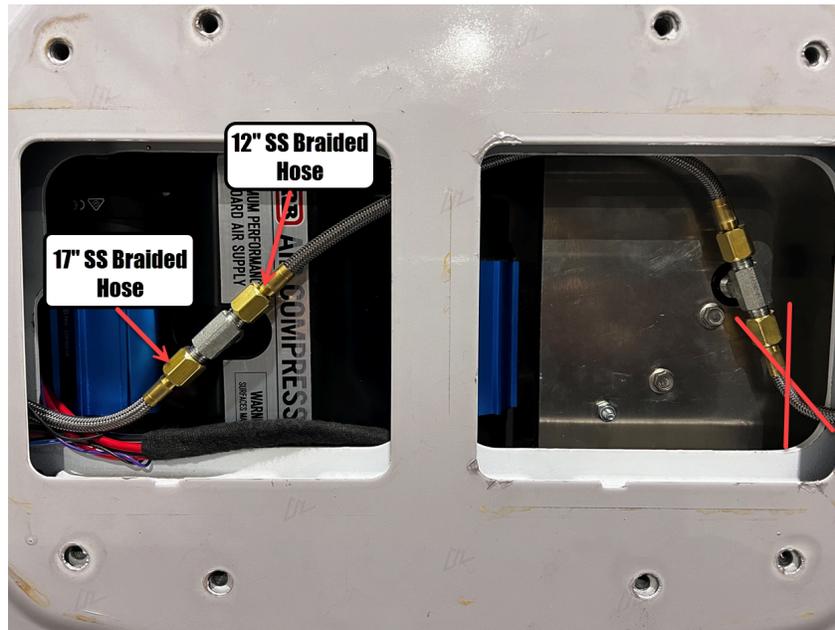


Now we are going to install the compressor & compressor case.

Holding the compressor and case in hand, connect the large 5 pin connector and the small 3 pin black connector. Once completed, lift the case into position and install the 4, M6x14mm pan head bolts and tighten. Be sure that none of the wires get pinched between the case and back plate. Make the connections according to ARB on your switch(s) and install into the back plate



Working from the outside of the gate, install the ¼”NPT/-4m/-4m “T” fitting into the compressor as shown below, and make the necessary airline connections based on the options you chose. *If you did not purchase this kit with the APEX hose reel, install the -4JIC cap on the “T” fitting on the side closest to the center of the tailgate. Adjust fitting orientations if needed to ensure there are no kinks in the braided hoses.* Re-install the exhausters on both sides and re-install the spare tire to its mount.



All that's left is to complete the wiring per the ARB instructions and you are finished!

We take great pride in building our products and we hope that pride extends to you after installing your Jeep JL TAC System. If you are able to share your photos online (Facebook and Instagram), please tag **@AmericanAdventureLab**. We would love to see how it turned out and give you some reciprocal attention in return!

Thank you!

At American Adventure Lab, we strive to improve anywhere we can. If you experience any issues with this product or have any suggestions, 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.





Instructions

JL - T.A.C.S. SYSTEM - PRESSURE CONTROL

Thank you for purchasing your ARB Pressure Control mount for the JL TACS system 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.

Tools Required:

There is more than one tool for every job, but below is the list of tools we use for this installation.

- 3.5mm Allen Wrench/Socket
- 11/16" 12pt Socket or Combination Wrench
- Adjustable Wrench

What's included:

ARB Pressure Control	1	90* BSP to -4 JIC Male	2
Braided steel air line, 6" long	1	"T", -4 JIC M to -4 JIC F to -4 JIC M	1
Braided steel air line, 17" long	1	-4 JIC F cap	1

Note - If you purchased the ARB Pressure Control with your TAC System, now is the perfect time to install otherwise we will need to remove the system from the tailgate in order to facilitate the additional wiring, plumbing and components.



The air chuck mounting plate is pressure control ready, only a few adjustments to the control itself are necessary.

When complete, your control and air chuck should look like this as you look at it from behind. Start by removing the black thumb nuts on each of the solenoids. Be careful, behind each one is a small o-ring. These will need to be removed as well. Be careful not to tear, knick, or break this o-ring, as it will need to go back on later. Once removed, slide the solenoids off of each post and set aside.

At this point we will need to configure the manifold for the necessary fittings. The small caps on the manifold can be removed with a 3.5mm allen wrench. Your manifold should look like this when the Pressure switch and fittings are installed correctly.



Note - On the 90° fitting, it is equipped with a small non-removable flat washer. This washer may make contact with the cap/plug directly next to it. It may be necessary to file a flat on the edge of the washer to clear the cap. Not doing so may result in an air leak later on.

Next install the assembled manifold through the bracket as shown above. The brass hex on each post will fit perfectly inside the hole on the mounting bracket. Install the solenoids, silver side towards the bracket over the post, then the small o-ring and the thumb nuts and snug tight. Using an 11/16", 12 point, socket, tighten the solenoid nuts. *They are plastic, so be mindful not to over tighten.*

Next install the “T” onto the air chuck and leave it loose for now.



Install the 6” braided air line between the “T” and 90°BSP fitting as shown below. Once fitted, tighten the fittings. *Make sure not to kink hose.*



If you have the Apex Industries hose reel, the other side of the “T” is the connection for the hose reel and requires a 28” Braided steel air line (not included). If you did not opt for the reel simply cap the “T” with the supplied -4 JIC F Cap and tighten.

Lastly, install the 17” hose to the opposite side 90* fitting. This will run through the gate and connect to the ARB compressor.

If you haven’t already, you may now complete the wiring according to the ARB instructions.

We take great pride in building our products and we hope that pride extends to you after installing your ARB Pressure Control mount for the JL TACS system. If you are able to share your photos online (Facebook and Instagram), please tag **@AmericanAdventureLab**. We would love to see how it turned out and give you some reciprocal attention in return!

Congrats! You’re all done!

Thank you!

At American Adventure Lab, we strive to improve anywhere we can. If you experience any issues with this product or have any suggestions, 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.

