



**Part# 44-0717**

**Jeep 2007—2018.5 JK/JKU**

**ARB CKMTA-12**

**Under Seat Mounting Bracket to the ADS System**



***Air It Up!***



## IMPORTANT INFORMATION- PLEASE READ FOR YOUR SAFETY

*PLEASE TAKE A MINUTE TO READ THIS ENTIRE INSTRUCTION MANUAL BEFORE YOU START.  
WE WANT YOU TO HAVE A FUN AND EASY INSTALLATION WITHOUT HURTING YOURSELF OR YOUR JEEP.*

### **SAFETY PRECAUTIONS**

If you are working on the ground always use jack stands and chalk any tires touching the ground. Wear safety glasses and gloves as you will be using power tools for this installation. We recommend disconnecting the battery any time you are working on your Jeep.

**NEVER DRIVE WITH THE WHIPS CONNECTED TO YOUR JEEP MAJOR DAMAGE CAN OCCUR!**

### **Tools needed:**

- Basic mechanics set
- Thread sealer
- Mild soapy water in spray bottle
- T45 Torx
- T35 Torx
- 18mm socket
- 13mm socket
- Pliers

## Secure Jeep and Prep for Installation

This entire install can be done on the ground but jack stands or a lift will make it even easier.

1. Park your Jeep and set the parking brake.
2. Place a blanket on the edge of the roof and windshield of your Jeep and open hood the hood all the way.
3. Disconnect the negative (-) battery terminal.
4. Begin installation step 1

\*Special cut 9 /16 socket for 90 degree installation





IMPORTANT INFORMATION- PLEASE READ

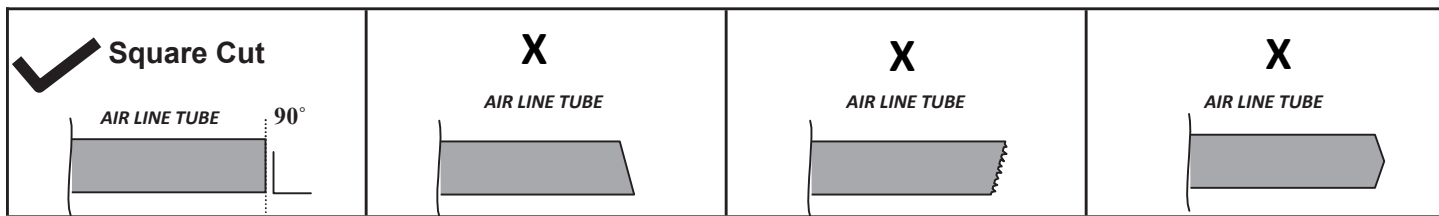
**Always:**

Use a tube cutter or sharp utility knife.

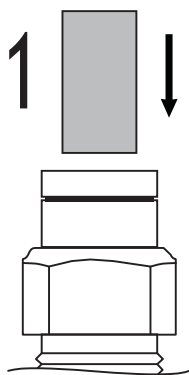
**Do Not:**

Fold or kink the Air Line Tube. Cut the Air Line Tube at an angle. Do not use pliers, scissors, snips, saws, or side cutters.

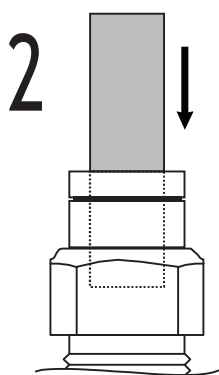
**PROPER AND IMPROPER CUTS IN THE AIR LINE TUBE**



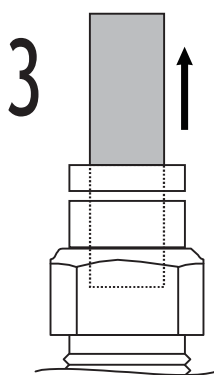
Insert end of Air Line Tube into Air Fitting.



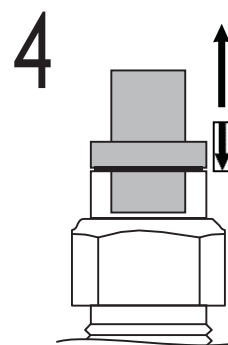
Push Air Line Tube into Air Fitting as far as possible.



Gently pull on the Air Line Tube to check for a secure fit.



To remove, push down collar and gently pull Air Line Tube away.



**Removal Tip:** Use a small open-ended wrench to push the collar down .

**Always:**

Select routes protected from heat, debris, and sharp edges. Use Nylon Ties to secure the Air Line Tube.

**Do Not:**

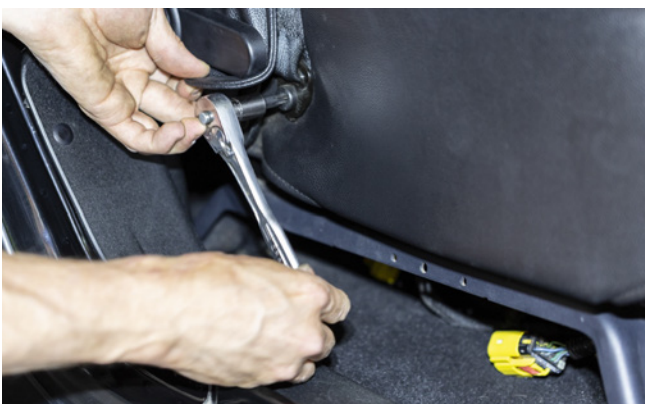
Bend or sharply curve Air Line Tubes. Leave Air Line Tube exposed to sharp edges. Use unnecessary lengths of Air Line Tube. Route Air Line Tube near moving parts. Let Air Line tube hang unsecured from vehicle. Scar Air Line Tube while routing.

**Step 1** of this installation will be to remove the passenger door of the jeep ( By removing the door out this will make install way easier). Make sure to set doors down on a blanket or in a safe area away from damage.



Disconnect any connectors or wires underneath the seat so the passenger seat can be removed, Be careful not to damage any electrical components.

You will now need to remove the factory seat belt (T45) and the 4 bolts to remove the passenger seat (18mm).



**Step 2** with the seat removed we can now prepare the seat for the compressor bracket. Start by removing the 6 bolts holding the seat riser to the seat.

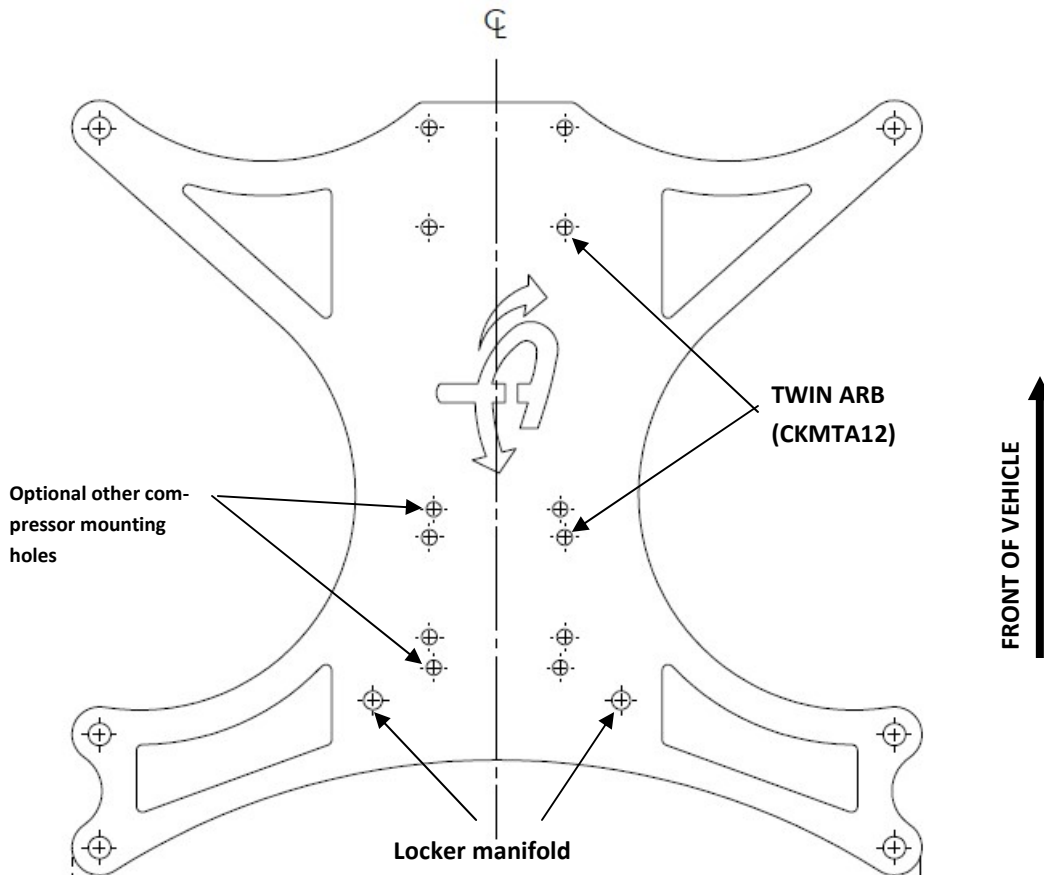


Once seat riser is off you can remove the rectangle retainer bracket using a (T-30) Torx





**Step 3** We will now fasten the **ARB CKMTA-12** compressor to the bracket. See diagram for correct mounting holes for your model compressor.



**Make sure the compressor mounting bolts are torque to 90 FT-lbs and if installing the manifold bolts need to be tightened to 19 ft-lbs**

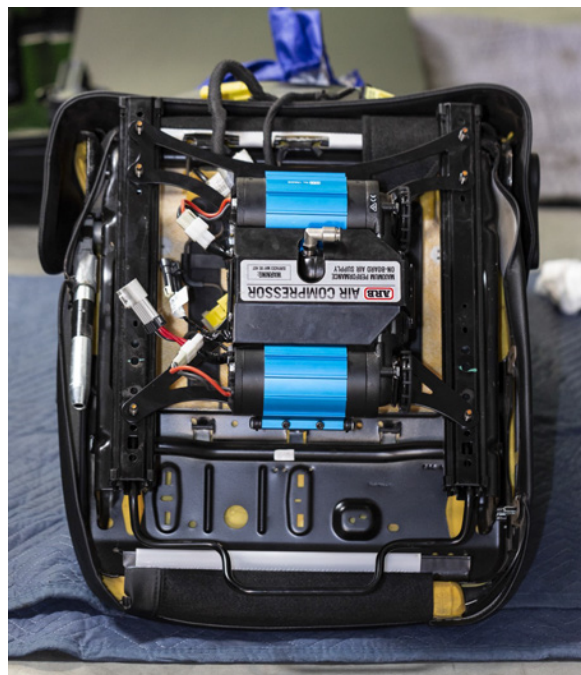
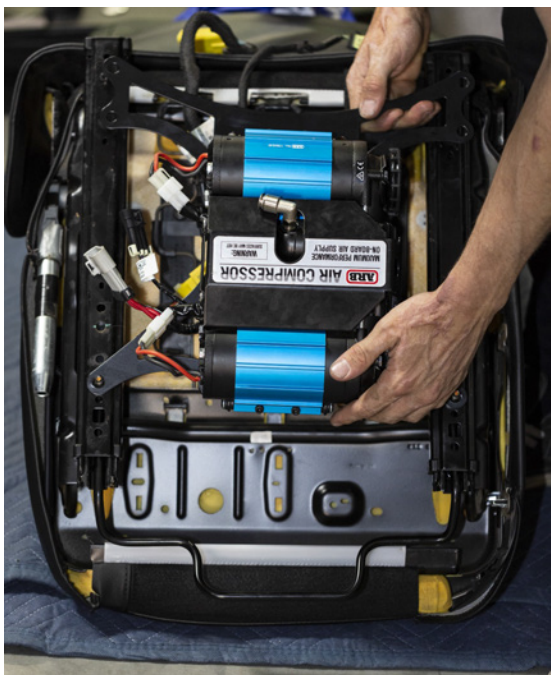


**At this time please install the supplied 90 degree swivel to the output port of the compressor. (make sure to use thread sealer or Teflon tape and tighten)**

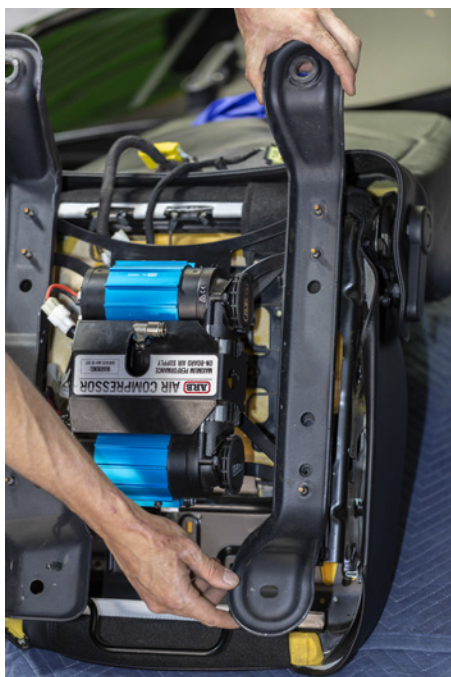


## MOUNTING BRACKET TO SEAT

**Step 4** First lay out a blanket and set your seat upside down to make bracket installation easier. Place bracket onto the exposed studs on the bottom of the seat as appears in the photo below. (Compressor will sit upside down so air fitting is facing the floor of vehicle)

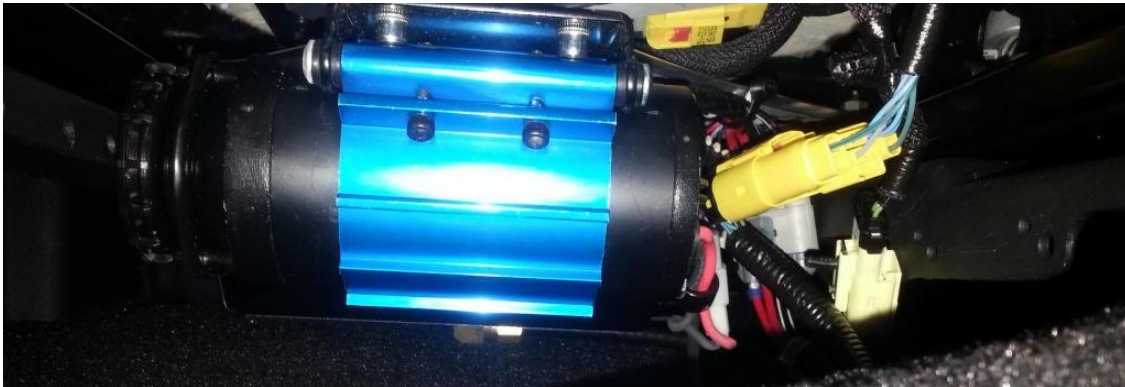


Install your factory seat risers to over top of the bracket making sure they go back in the right location and tighten seat riser bolts to seat to the 21 ft-lb per factory torque specifications.

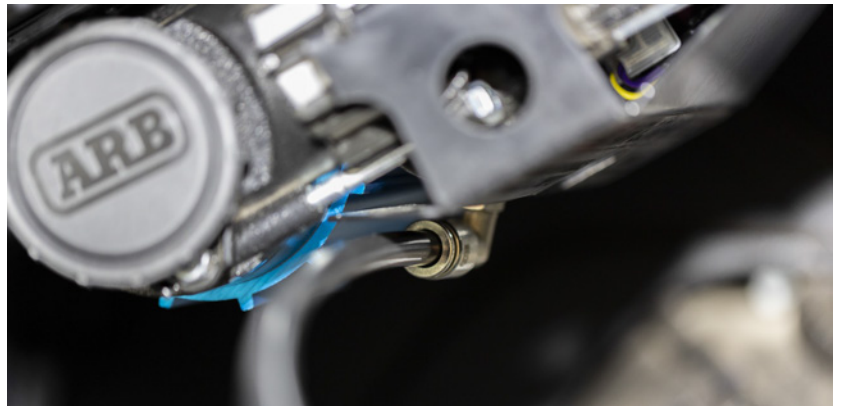


**Air It Up!**

**Step 5** Now its time run the path for wiring for the compressor. Please locate the access through the factory hole from the passenger side fire wall to the engine compartment. ( **Must Refer to ARB Wiring instructions now on how to install the ARB wire harness to the battery & Switch** ). Route the wiring and tubing under plastic trim to a location that it can easily be attached to compressor when seat is re-installed in jeep.



Then run supplied high temp tubing path along side with the wiring harness that you ran through the fire wall (keep away from high heat or any pinch points to avoid air leaking)



Once the ARB wiring has been installed and wired up to the compressor & the Air line tubing path has been ran safely to the engine compartment then now you can plug it into the 90 degree fitting left hand side of the **ADS controller**. (see page 12-13)



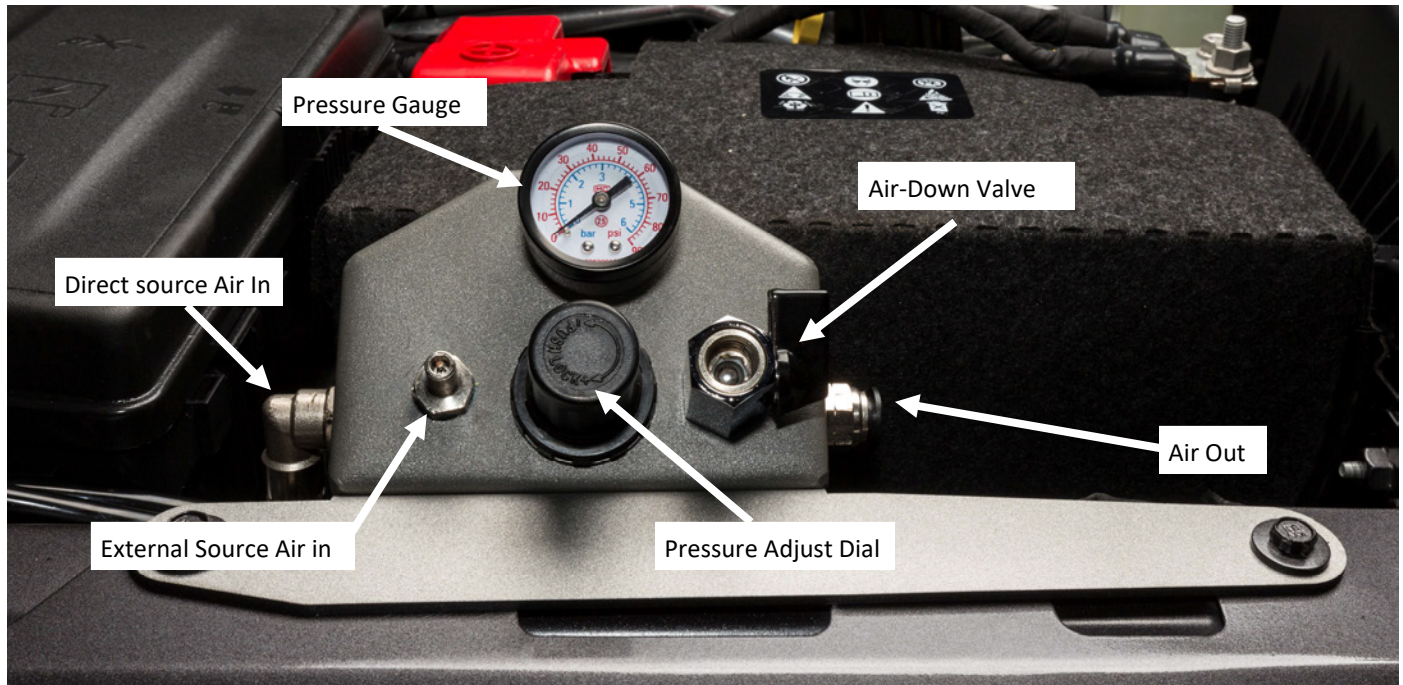


**Step 6** Now that the ARB wiring & Air Line Hose have been installed correctly then now is the time to reinstall the seat and connect the plug for the compressor and air line. **IMPORTANT** you must tighten seat bolts to **55 ft-lbs per factory torque specifications**. Please be careful not to crush or pinch any wires between the seat and floor of vehicle. You will also now connect the Compressor wiring, seat pressure sensor, and any other electrical connections. Connect your high temperature tubing to the 90 degree fitting on compressor at this time as well.



Finally Re install plastic push connectors, fasten seatbelt to seat. This should complete your install.





Congratulations you have now completed the install of your new Air It Up® 4 Tire on Board ADS System.

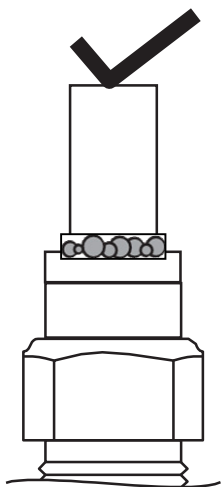
**Please perform the following pressure tests.**

1. Pressurize your system with no whips connected to ensure all Schrader's are sealed and everything is working properly (release pressure on each valve to make sure all flowing equal)
2. Connect all your tire whips to the Body Mounted Schrader valves and the tires. Note the tire pressure on the ADS Controller gauge.
3. Listen and Inspect all connections for leaks.
4. If you think you have a leak spray mild soapy water at the fitting and look for bubbles.
5. If you find a leak. Please refer to our trouble shooting section.

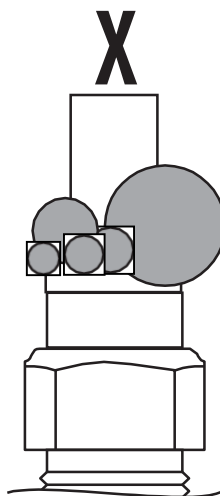
(Take a few minutes to try different settings and get familiar with the system)

## LEAK INSPECTION

To inspect for leaks pressurize your system, take a spray bottle with a solution of mild soap and water and spray suspected area. If you are not sure where the leak is coming from take a systematic approach spraying one area at a time.



SMALL SOAP BUBBLES THAT DO NOT EXPAND

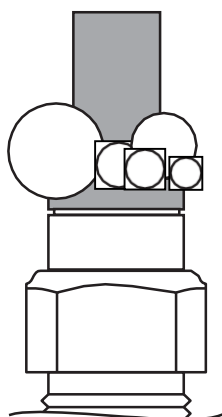


SOAP BUBBLES THAT EXPAND

## LEAK CORRECTION

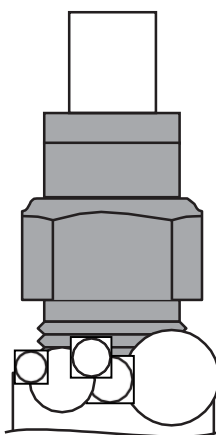
Most leaks will be in one of these three areas and the correction is listed below.

LEAK AT AIR LINE TUBE AND AIR FITTING



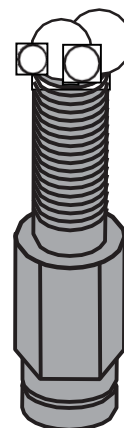
Release Air Line Tube.  
Review proper cuts and procedures.

LEAK AT BASE OF AIR FITTING ON AIR SPRING



Tighten Air Fitting one turn or until leak stops.

LEAK OUT OF THE VALVE CORE ON INFLATION VALVE



Tighten valve core with valve core wrench on Inflation Valve Cap.

## DIRECT AIR SOURCE PLUMBING

When plumbing a direct air source to the ADS controller you have 2 options. The first option is to use the front external source Schrader port.



To remove the Air-Port Schrader use a 9/16 wrench or socket, spray penetrating oil, wait 5 min and remove slowly. After removed be sure the threads are clean and no adhesive residue is left over.



Add pipe sealer to the threads and install the 90 degree 3/8 swivel using the 9/16 wrench until tight. Connect your high temp hose to the compressor and you're done.



## SIDE PORT 90 DEGREE FITTING INSTALL (requires special socket)

The second option is the 3/8 hex plug located on the left side of the ADS controller.



Apply penetrating oil to the 3/8 hex plug threads and insert 1/4 Allen key completely. Slowly remove the plug and make sure not to damage or strip. (you can also use a heat gun to make plug removal easier)



When plug is removed make sure to clean threads and remove all glue residue. You will now apply Teflon tape or thread sealer to your 90 degree swivel and install using our special socket  
You can now hook your high temperature hose from the compressor to the new 90 degree



**Congratulations** you have now completed the install of your new ARB Compressor and or ADS System.

Please perform the following tests.

**Inflation -**

1. Connect your Whips to all 4 corners of your Jeep.
2. Turn compressor on to pressurize the ADS Unit. The regulator can be adjusted by lifting the adjustment knob to un lock it, Then turning it Clockwise to Increase Pressure or Counter Clockwise to Decrease Pressure. Once you have set it to your factory recommended pressure. The Adjustment Knob needs to be pushed down to Lock the regulator in place. Once you Set it you can Forget it.
3. The compressor should stop when the ADS is fully pressurized. When the compressor stops listen and inspect all connections for leaks.
4. If you think you have a leak spray mild soapy water at the fitting and look for bubbles.

Let your system sit for two minutes and note the tire pressure and compare it to your starting pressure

**Deflation—**

1. Connect your whips to all 4 corners.
2. Check your tire pressure on the ADS Controller
3. Open the Air-Down Valve on the ADS Controller to Deflate your tires. Once you have reached the desired pressure Close the ball valve and verify tire pressures on the ADS Controller gauge.
4. Remove your tire Whips and you are Trail Ready.

