

AiROCK™ Manifold Installation Instructions

IMPORTANT! AIR SUPPLY

The AiROCK™ system requires an air supply that is filtered and regulated to 100PSI max. Failure to comply with this requirement will void any warranty of the AiROCK™ Suspension System. Filter/Regulator units are available from OffRoadOnly SEE FIGURE 7.1. The filter needs to be mounted in a vertical position and is recommended to be mounted as far from any high temp heat source as possible. They may be mounted under the hood. There is a small triangle on the face of the filter, the direction of flow is the direction the arrow points.

AIRLINE TRIMMING TECHNIQUE

The airline and fittings selected for this kit are of the highest quality. These fittings are designed to allow the airline to be pushed into the opening and then give the line a slight tug to seat the internal o-ring. Although these fittings are high quality, it is possible to have a problem if the airline is not trimmed properly before it is inserted into the fitting. Most problems will be an O-ring that is not sealing due to damage by the airline. It is of the utmost importance to utilize the tubing cutter to insure a clean straight cut. Also, make sure there is no burrs or edges on the airline that may damage the o-ring upon installation. SEE FIGURE 7.2

Using the provided tube cutter, trim the airline so that the cut is square to the line itself, to great of an angle will cause a leak. Insert the line into the opening of the fitting. Once a slight resistance is met, a gentle but firm push will result in the line inserting a slight bit further. Give the line a tug, if it is seated properly, the line will not come out. To remove the line, simply push the outer ring of the push fitting towards the fitting while providing a slight pull on the line, once released it will allow the line to be removed. Pulling to hard on the line will not allow it to release. The upper front airspring fitting is down inside the mounting tube. This is difficult to access, but it is possible to install the line and also remove the line without removing the airspring from the bracket. A screwdriver or other tool may be used to reach down in the tube to depress the ring and remove the line.



FIGURE 7.1 EXAMPLE OF FILTER/REGULATOR FROM OFFROADONLY



FIGURE 7.2 AIRLINE BEING TRIMMED WITH SUPPLIED TUBING CUTTER

AiROCK™ Height Sensor Installation

HEIGHT SENSORS

The height sensors for the Rubicon Express Long Arm TJ suspension systems have been designed to utilize the outer two bolts that hold the the outframe rail brace to the brace. The bolts run through the frame horizontal to the ground. These bolts should have been installed so that the nuts are on the inside of the frame, simply remove the nuts, install the proper AiROCK sensor bracket (see colored sticker and reference page earlier in this manual) The bracket should also rest on the top edge of the frame rail to help position it and prevent it from moving. The brackets will be oriented on the vehicle similar to the orientation shown in FIGURE 8.1. The sensors will all be positioned that they are towards the outer ends of the vehicle as opposed to the bolts that mount them. The sensor arms (Purple anodized parts) will all four rotated to the front of the Jeep. The front brackets will have the Links on the frame side of the sensor arms, and the rears will have the links on the driveshaft side of the sensor arms. This is shown on the next page in FIGURE 9.1 and 9.2

CONTROL ARM BRACKET AND LINKAGE POSITIONING

The sensor links will attach to the control arms as shown in FIGURE 8.3. Place the stainless link bracket over the lower control arm and clamp to the control arm. Adjust the bracket so that it is sitting against the Jam nut on the control arm and then rotate it so that once attached to the sensor arm, it is free from binding and able to move freely.

NOTE: For a standard Jeep TJ application, the sensor links should be as shown in FIGURE 8.3 On a Rubicon Jeep equipped with the Rubicon Express system, the link should be approximately 1 inch longer. Please verify the proper length links are used for your application.

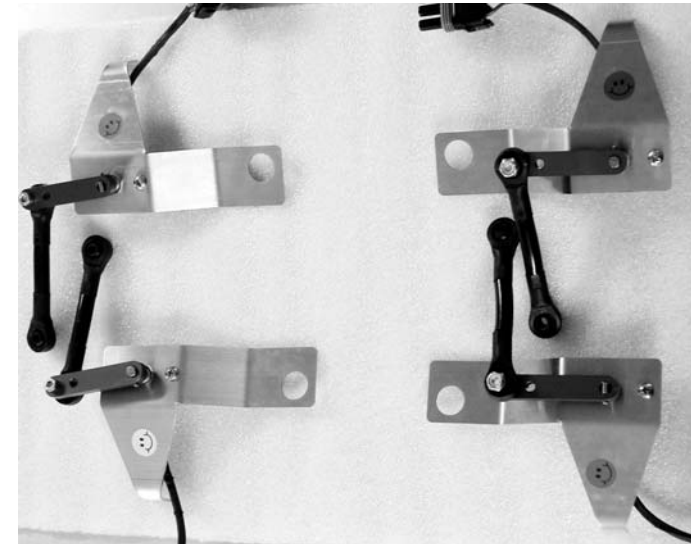


FIGURE 8.1 AiROCK™ HEIGHT SENSORS, FOR RUBICON EXPRESS LONG ARM TJ SYSTEMS. THE LEFT BRACKETS IN THE PHOTO ARE THE FRONTS, THE RIGHT ARE THE REARS. THE PHOTO IS ARRANGED AS THEY WILL BE PLACED ON THE JEEP, WITH THE LEFT EDGE OF PHOTO BEING THE FRONT OF THE JEEP, TOP VIEW



FIGURE 8.3 ROUND CONTROL ARM SHOWN WITH SENSOR LINKAGE MOUNT INSTALLED. NOTE THE LINKAGE BRACKET IS AT THE JAM NUT EDGE.

AiROCK™ Height Sensor Installation

FRONT HEIGHT SENSOR INSTALLATION

The front sensor and bracket should be installed as shown in FIGURE 9.1. The sensor will be towards the front of the vehicle and the sensor arm will also be rotated to the front of the vehicle. The sensor link will be mounted to the frame side of the Purple anodized sensor arm. Position link bracket on control arm and clamp in position that will allow free movement. Check for binding. On 2000 and later models, check to ensure there is clearance between the right front sensor arm and the exhaust pipe flange. On the drivers side it may be necessary to unclip the fuel and brake lines from the frame clips, attach the sensors and then replace the lines in clips over the top of the brackets.

REAR HEIGHT SENSOR INSTALLATION

The rear height sensor and bracket will attach in a similar method to the fronts. The difference being that the sensor will be towards the rear of the vehicle once mounted properly and the sensor arm will again be rotated to the front of the vehicle. Attach the sensor link bracket to the control arm as shown. Ensure that the linkage is free from binds and the linkage bracket is mounted next to the jam nut on the lower control arm. On the driverside it may be necessary to unclip the fuel and brakelines and replace them once the sensor is installed.



FIGURE 9.1 LEFT FRONT SENSOR INSTALLED, NOTE POSITION OF BRACKET AND ROTATION OF SENSOR ARM



FIGURE 9.2 LEFT REAR SENSOR INSTALLED, NOTE POSITION OF BRACKET AND SENSOR ARM