

# AiROCK™ Rear Airspring Installation Instructions

**CAUTION!** PLACE VEHICLE ON LEVEL SURFACE BEFORE BEGINING, SET PARKING BRAKE AND TAKE ALL PRECAUTIONS NECESSARY FOR SUPPORTING VEHICLE. BEFORE INSTALLING AIRSPRINGS, IT IS RECOMMENDED TO HAVE ACU INSTALLED AND READY TO OPERATE, AS IT WILL BE NECESSARY TO INFLATE AIRSPRINGS BEFORE REMOVING JACK STANDS SUPPORTING VEHICLE

**NOTE:** Check the bolt for the rear track at the frame mounting point. Ensure that the bolt does not protrude more than 1/4" thru the nut, if it does, please cut the bolt flush with the nut before installing the right rear spring.

## REAR AiROCK™ AIRSPRING PREPARATION

1. RAISE REAR OF VEHICLE AND SUPPORT FRAME WITH JACK STANDS
2. SUPPORT REAR AXLE WITH FLOOR JACK
3. REMOVE REAR SHOCK ABSORBERS
4. REMOVE REAR WHEELS
5. REMOVE REAR SPRINGS, IT MAY BE NECESSARY TO DETACH TRACKBAR AND SWAY BAR LINKS FOR SPRING REMOVAL
6. REMOVE UPPER MOUNT HARDWARE AND LOWER MOUNT PLASTIC INSERT FIGURE 13.2 AND 13.3
7. DRILL UPPER BUMPSSTOP THREADS TO 3/8" FIGURE 13.4
8. MARK CENTER OF LOWER SPRING PAD, DRILL TO 1/2" FIGURE 14.1 AND 14.2
9. INSTALL REAR AIRSPRING AS SHOWN, PLACE 3/8" LOCKNUT AND WASHER ON TOP OF UPPER STOCK SPRING MOUNT FIGURE 13.1
10. MANUEVER REAR AXLE UP WITH FLOOR JACK TO INSERT LOWER AIRSPRING MOUNTING STUDS THRU 1/2" HOLE IN LOWER MOUNT



Figure 13.1 Rear airspring installed



Figure 13.2 Removal of upper hardware



Figure 13.3: Removal of Lower Mount Insert



Figure 13.4 Drill upper bumpstop mount threads to 3/8"

# AiROCK™ Rear Airspring Installation Instructions<sub>cont</sub>

## REAR AIRSPRING INSTALLATION

1. INSTALL NUT ONTO LOWER MOUNT STUD UNDER SPRING SEAT, TIGHTEN UPPER NUT, TIGHTEN LOWER NUT ONLY TO THE NYLOCK POINT **FIGURE 14.4**
2. INSERT AIRLINE INTO FITTING, ONCE AIRLINE IS INSERTED INTO FITTING, PULL ON AIRLINE TO SEAT SEAL, IF AIRLINE IS HELD CAPTIVE, YOUR CONNECTION IS COMPLETE
3. INSTALL THE REAR **ORO BILSTEIN SHOCKS**, TIRES, AND SWAY BAR LINKS AND ENSURE THAT ANY OTHER COMPONENTS THAT WERE LOOSENEED DURING THE PROCESS ARE TIGHTENED, SET TIRES ON THE GROUND
4. USING IN-CAB CONTROL INFLATE BOTH REAR AIRSPRINGS TO **45PSI**, OR UNTIL THE WEIGHT OF THE VEHICLE IS SUPPORTED BY THE AIR SPRINGS.
5. TIGHTEN THE LOWER REAR MOUNTING NUTS AT THIS TIME, IF YOU TIGHTENED THEM BEFORE, LOOSEN AND RETIGHTEN THEM TO ALLOW THE AIRSPRING TO SEAT ITSELF.  
**CAUTION: Do NOT REMOVE THESE NUTS WITH PRESSURE IN THE AIR SPRINGS**

PLEASE SEE OPERATIONS MANUAL TO DETERMINE “RIDE HEIGHT” AND SET FRONT END ALIGNMENT PROPERLY.



Figure 14.1 Marking Center of Lower Pad, need not be perfect, just as close to center as possible



Figure 14.2 Drilling 1/2” Hole in Center of Spring Pad



Figure 14.3 Install washer and nut on top mount



Figure 14.4 Install nut on lower stud

# AiROCK™ Startup Instructions



## FINALIZING THE INSTALLATION

Once the AiROCK airsprings are installed, along with the shocks, wire harness, ACU, Controller and height sensors, the next step is to inflate the airsprings to 25psi and tighten the lower airspring nylock nuts. You will need to have the air supply working and charged up for this procedure.

## POWER UP THE ACU

With everything hooked up, and the Jeep running if necessary for the compressor to work, plug the ACU fuse into the fuseholder. The Controller display should light up with the “AiROCK” message, and then shift to the menu by displaying “U/D to scroll”

At this point the ACU is working. Pressing the down button will wscroll you thru the menu options. Please see the operation manual for more details on the rest of the menu functions.

## CALIBRATION STEPS

With the system hooked up, powered up and air supply charged, there are a few steps that must be performed before the system is usable. Please refer to the operations manual and perform the following steps in this order.

1. Install AiROCK Airsprings to 25psi. This will inflate the springs and should allow the lower nylock nuts to be tightened properly. Do this before moving to the next step.
2. Calibrate. This will setup the computer to work with the height sensors. Follow the operation smanual procedure and upon completion of this, the system should be ready for use.