OffRoadOnly 651.644.2323 9-5 Central M-F

AiROCK System Calibration Process

This document will aid you in running your AiROCK'd Jeep thru the necessary calibration process.

You are either starting the Jeep up for the first time with a new install, or are re-calibrating after a sensor change. We will start with Clearing the sensor failures, as most likely that will be the starting point either way.

So, with the jeep running, in Manual Mode, follow the list below.

To start, we need to enter the setup menu, Press X and Check Mark together.

Display will read one of several option, depending on your configuration, simply scroll UP and your display should read "Installation Menu"

Press the RIGHT button, Display should read "Show AiROCK Options"

Press the UP button, Display should read "Clear failure log…. " This is what we want to do, but if you wish to see what is stored in the log, press UP again, display should read "Show failure Log"

Press the RIGHT button, display will read something like "FL sensor failed…" this means the Front Left sensor is reporting a problem. You can scroll UP or DOWN and if there is MORE than 1 sensor failed, then it will scroll thru all of them. At any part of this scrolling, you can press the RIGHT button and get more data about the failure, simply press the LEFT button back to "Show failure log" once complete.

Press DOWN button to display "Clear failure Log" and press the RIGHT button, the screen should flash and then return to "Clear Failure Log" and this means it is done.

Now, you must scroll straight to "calibrate springs/extents" (a couple of DOWN button pushes) If you accidentally Push LEFT or X buttons, you may end up back at "Manual mode" and if you do you will need to return to the "Clear Failure Log" as it should reset the failure.

So, Press the DOWN button twice, display should read "Calibrate Springs/extents"

Press the RIGHT button, display will read "Start engine" but we will assume you have it running, if not start it and depending on how your wiring is configured, you MAY need to restart this process.

Now, before we continue, you will need to have the front swaybar disconnected and have the tires aired up equally as well as being on a flat level surface as good as possible. This will deliver the best 'calibration' values. Also, if the mechanical parts in the solenoids in the AiROCK Control Unit (ACU) are worn and needing service, this calibration process may hang in a certain position, usually all down or all up. If that's the case, you will need to contact us for ACU service where we clean the ACU internally and replace the worn parts to a new condition.

Once you have meet these conditions, press the RIGHT button and the system should display "going to all down" and start moving.

Now, you simply get out and watch. Again, make sure the swaybar is disconnecting, as this will put a bunch of force on the links if it doesn't.

The AiROCK will now take the jeep from the All Down position, thru to the top, all up position. This should be the maximum the shocks allow the system to travel. When it gets to the All Up part, it will sit and click for a little while, I like to grab the roll bar above the door, or the roof and rock the Jeep side to side. It should be solid, stiff, no movement. IF you sense that there is movement in the shocks, this means you are not high enough and either need more pressure or something. Contact us for the next step.

Once it achieves all it, it will go down to 95%, then to 50% then to the LEFT and then to the RIGHT, back to 50%, down to 20%, up to 40% and then again 50%. Once it makes all these positions, the display will change to “Calibration Successful <” and now simply press the left arrow (the direction of the > on the display) and the data will be saved. Once this is done, display will read “Calibrate springs/extents” and now you can hit the X button until you return to “Manual Mode” and once there, turn the Key off and verify the display reads “Vehicle Sleeping” as this confirms the data was written to memory. If this is the case, restart it and start pushing buttons! If this is not the case, then call us!