

AiROCK™ Wire Harness

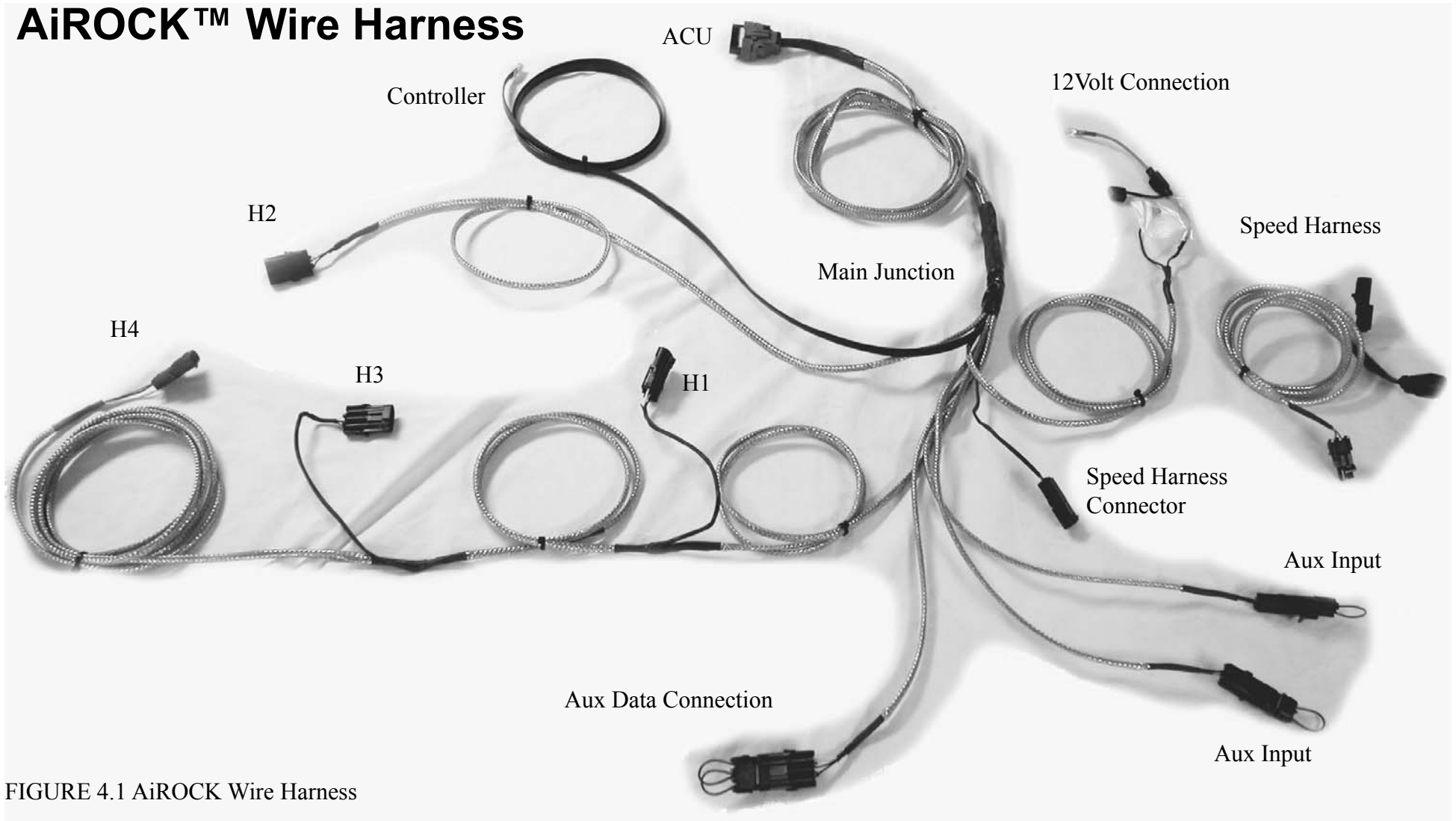


FIGURE 4.1 AiROCK Wire Harness

The harness is designed for a certain layout on the Jeep. The Main Junction point should first be positioned at the top center of the firewall, under the hood (most Jeeps have a mounting tang at this point that the harness may be positioned behind.) The Controller cable will be run through the firewall, find an opening near the accelerator pedal. The H2 harness will run towards the battery and down to the right front sensor. The H1, H3 and H4 harness will run down along the driverside framerail and loop to the passenger side on top of the gas tank crossmember. The 12V connection goes to a 12V continuous power source. The speed harness ties in between the speed sensor and the Jeep harness and plugs into the main harness at the junction. The Aux Input and Aux Data are for future expansion of the AiROCK system.

AiROCK™ Controller Installation Instructions

The AiROCK Controller is recommended to be placed on top of the center dash bezel. There is only one wire to attach to this unit, the black flat ribbon cable in the wire harness. This cable should be run through the firewall near the accelerator pedal and run up through the dash and may exit under the edge of the defroster cover.

The Controller comes prepared with double back adhesive tape already installed. This tape will adhere to almost anything and if the surface is prepped right, will not come off easily.

To prepare the dash bezel, first clean the area where the controller will be mounted with a good general purpose cleaner. Final prep for the area is a swipe with an alcohol wipe, DO NOT wipe anymore of the dash than necessary as the alcohol may discolor the area that it is wiped upon. Once the area is wiped, peel the adhesive cover off the tape and gently stick the Controller to the dash. The 3M tape used will stick excellently the first time, but if you are able to remove it, it may not stick the second. Make sure it is in the right place the first time.

The wire harness connection to the Controller is as simple as one connection. The flat black ribbon cable gets plugged into socket on the back of the Controller labeled ACU. Simply insert this connector in the proper orientation and push until it clicks and is retained. To release, press the small latching tang and the connector will disconnect from the socket. Do not connect or disconnect this connector while the ACU is powered up. If the connector is removed, the ACU will need to be powered down to replace the connection.

NOTE: If the Display on the Controller shows “AiROCK, OffRoad-Only” and does not change after a few moments, the ACU needs to be power cycled, please remove the fuse and reinstalled to reset the unit.



FIGURE 5.1 CONTROLLER MOUNTED IN RECOMMENDED POSITION ON CENTER OF DASH BEZEL



FIGURE 5.2 CONTROLLER BACKSIDE WITH CONNECTORS. PLUG THE FLAT BLACK RIBBON WIRE INTO THE PORT LABELED ACU. IN THE EVENT THAT THIS CABLE GETS UNPLUGGED, THE ACU NEEDS TO BE RESET BY REMOVING AND REPLACING THE INLINE FUSE. THIS WILL TURN THE CONTROLLER BACK ON.

AiROCK™ Control Unit (ACU) Installation

AiROCK CONTROL UNIT

The AiROCK Control Unit (ACU) may be mounted anywhere in any position. The only controlling factor on positioning is that the wire harness is able to reach it. See FIGURE 6.1 to determine the wire harness and air supply positioning. That harness reaches approximately 5 feet from the junction that should be placed at the center top of the firewall under the hood. The ACU should be mounted in areas that allow the airlines and harness to be routed easily to the unit and avoid heat sources that may damage the airline and harness. There are four holes in the black area that are designated to mount the ACU.

Four #6 self tapping screws are included to install this, but should only be used when mounting in a position as shown in FIGURE 6.2. When mounting the ACU on the side or by hanging the unit upside down, please drill through holes in the mounting surface and use nuts and bolts if at all possible.



FIGURE 6.1 ACU SHOWING THE WIRE HARNESS CONNECTION, SINGLE AIR SUPPLY PORT, 4 AIRSPRING PORTS AND THE EX-HASUT MUFFLER

POWER UP AND RESTING THE ACU

The harness comes with the fuse installed in a plastic bag, stapled to the harness next to the fuse holder. The fuse should be installed last, after all the other connections to the harness have been made. In the event that you need to restart the ACU, simply pull the fuse, wait 3 seconds, and replace. This will restart the ACU. The most common need for this is when the Controller cable gets disconnected, once reconnected it will display “AiROCK Off.Road.Only”, at that point, pulling the fuse and resetting the ACU will return the Controller to the proper display.



FIGURE 6.2 FIREWALL GROMITT, AVAILABLE ON MOST MODELS