

RUBICRAWLER CONTROL MODULE

KIT CONSISTS OF:

<u>No.</u>	<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1.	1	42R800-A	CONTROL MODULE KIT
2.	1	42R800-C	MICRO FUSE CONNECTOR
3.	1	42R800-E	POWER SUPPLY CABLE
4.	5	42R800-F	HEAT SHRINK BUTT CONNECTOR (ONE EXTRA)
5.	2	42R800-G	2" HEAT SHRINK FOR FUSE TAP CONNECTION



SPECIAL NOTE: The components packaged in this kit have been assembled and machined for specific type of conversions. Modifications to any of the components will void any possible warranty or return privileges. If you do not fully understand modifications or changes that will be required to complete your conversion, we strongly recommend that you contact our sales department for more information. This instruction sheet is only to be used for the assembly of Advance Adapter components. We recommend that a service manual pertaining to your vehicle be obtained for specific torque values, wiring diagrams and other related equipment. These manuals are normally available at automotive dealerships and parts stores.



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RUBICRAWLER CONTROL MODULE

Introduction:

The RubiCrawler Control Module was designed to integrate the vehicles wiring harness, transfer case position switch, and the RubiCrawlers position switch. This module will alert the vehicle when the RubiCrawler is shifted into low so that the vehicle will allow you to control the locking differentials, disconnect the sway bar(JK only), and disable the stability control(ESC). The control module will also communicate with an AeroForce gauge(sold separately) which will display the current shift state of the RubiCrawler.

Preparing the Wiring:

NOTE: If installing a RubiCrawler simultaneously, start here when the transfer case is removed for ease of installation. If the RubiCrawler has been previously installed, you can still install this at any time.

NOTE: Pictures of connectors and the position switch can be found on the last page along with a wiring schematic.

1. Unplug the connector from the transfer case position switch if the transfer case is still in the vehicle.
2. Cut the transfer case connector off the wiring harness with about 3" of wire left on the connector.
3. Strip the connector wires and install the heat shrink butt connector over **both** wires, crimp the butt connector and heat that end.
4. The Module is used for several applications, and you will be required to cut two plugs on the new harness. The White/Blue and the Black/Yellow. You will need to strip these wires for the butt connectors.
5. Connect the T-case position plug from the transfer case to the Black/Yellow wires from the RubiCrawler control module. Polarity does not matter. Once the butt connector is installed heat to seal the butt connector to the wires.
6. The Blue/White wires need to be striped and connected to the Jeep wire harness. Use the butt connector to connect the Blue/White wires to the stock vehicle color codes listed below.

Control Module pigtail: Blue wire,

(03-04 TJ Black/Light Blue) (05-06 TJ Dark Blue/Dark Green) (JK Dark Blue/Yellow)

Control Module pigtail: White wire,

(03-06 TJ Brown/White) (JK Yellow/ Green stripe)

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Installation:

1. Mount the control module in a secure place under the vehicle, not in direct contact with any hot objects. Our recommended mounting location can be seen in the pictures below. The wiring harness is long enough to reach all connectors if installed in the recommended place.
2. **Jeep JK:** We recommend drilling the holes into the gas tank skid plate as shown in *Figure 1*. To protect the gas tank when drilling through the plate, it is strongly recommended to place a piece of scrap metal between the gas tank and the skid plate. Do not forget to remove the scrap metal when done.
Jeep TJ: We recommend mounting it to the locker solenoid mounting plate. (See *Figure 2*).
3. Bolt the RubiCrawler Control Module into place using a self tapping screw
4. Plug in the connectors from the RubiCrawler Control Module to the RubiCrawler, the transfer case, the wiring harness connector, and the three wire delphi connector included in this kit.
5. The purple wire is a signal wire for an AeroForce gage which is an optional item that can be purchased separately.
6. **Jeep JK:** Run the red(power) and black(ground) wires along the frame on the passenger side up to the fuse box. Make sure to safely zip-tie the wiring away from the exhaust, any pinch points or other hot objects. Use the fuse tap and install into the fuse box in the empty fuse slot labeled M14 - TTOW BUX. Refer to the under side of the fuse box lid for the proper location. Make sure to install it in the same direction as seen in the figure below. Connect the fuse tap lead to the red power cable and then use the 2" heat shrink to water prof the connection

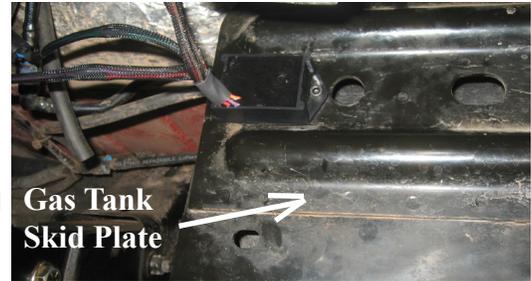


Figure 1: JK Mounting Location



Figure 2: TJ Mounting Location



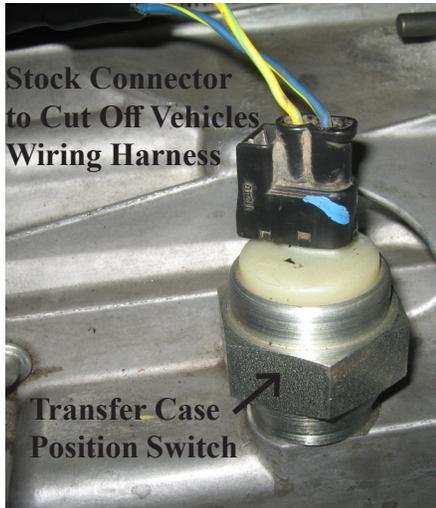
Figure 3: JK Power Connection



Figure 4: JK Ground Terminal

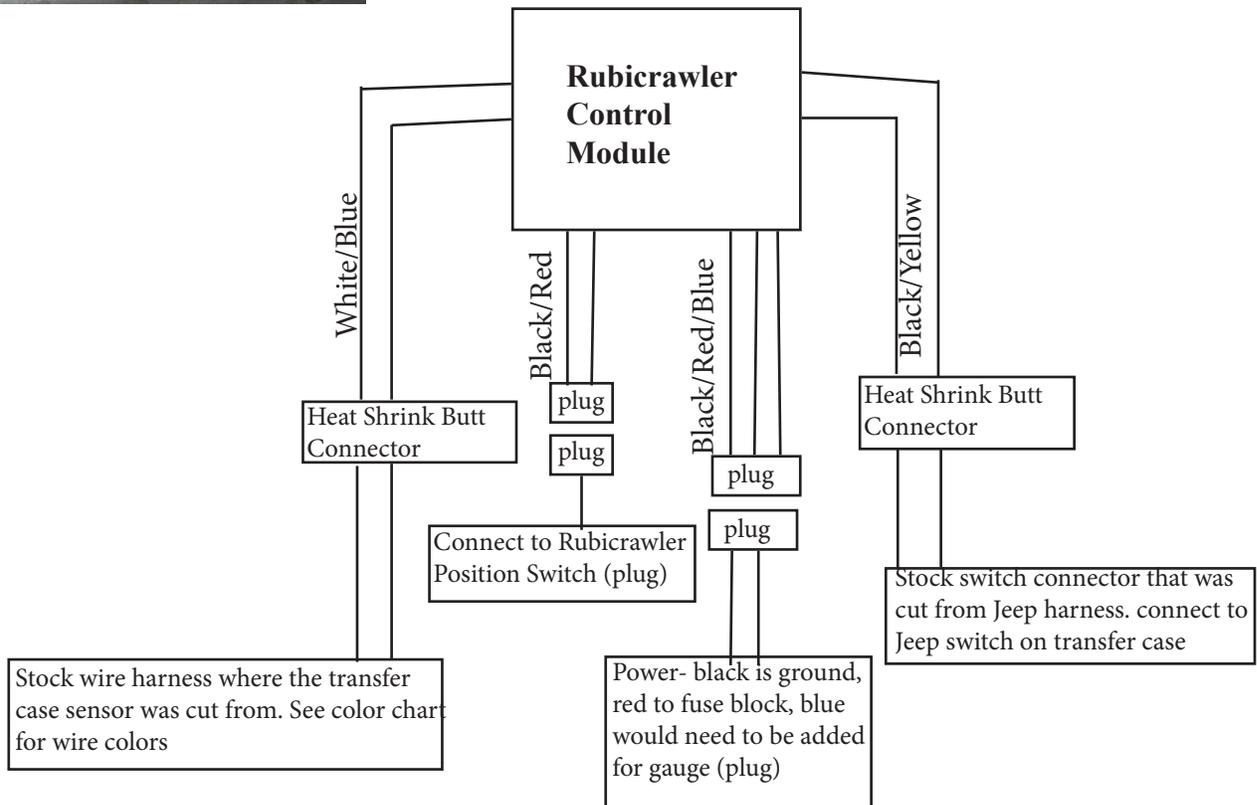
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A notch will need to be cut into the fuse box for the wire to run out, which can also be seen in *Figure 3*. The ground can be run along the side of the fuse block to the ground terminal on the passenger fender next to the fuse box.

JeepTJ: Route the power and ground through the firewall to the fuse box behind the glove box. Mount the ground to the firewall. The power should be plugged into the fuse block in an empty ignition hot fuse slot.



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