



PCS 64-TR Truck Power Control System Installation Guide

Thank you for purchasing XTC's Power Control System. The kit comes complete with everything needed for installation. All switch circuit/housings are wired for bottom row lighting for use with optional upgraded Carling lit switches. The system has six circuits, two 10-amp direct and four 20-amp relayed circuits of which one can be controlled by remote activation. All four relays have Diode protection that reduce voltage spikes from field collapse, protecting LED lights and other sensitive accessories. The kit includes power wire with a 50-amp Circuit breaker for overall circuit protection. More installation information can be found at www.xtcinstall.com

Please read the instructions fully and familiarize yourself with the components before starting the install.

STEP 1 Mount the power control unit under hood with included self-tapping screws



STEP 2 Mount Fuse box on fire wall, make sure it is mounted where it can be accessed to replace fuses.



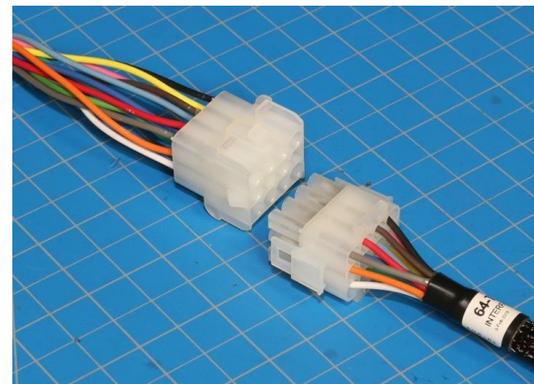
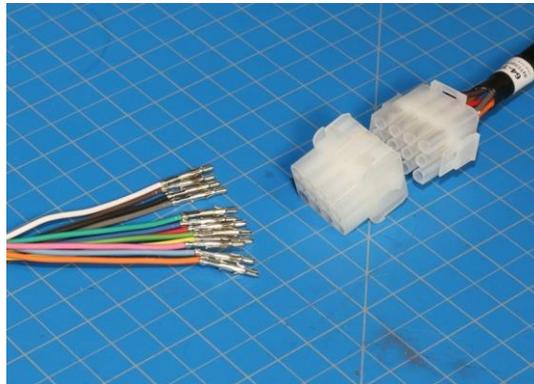
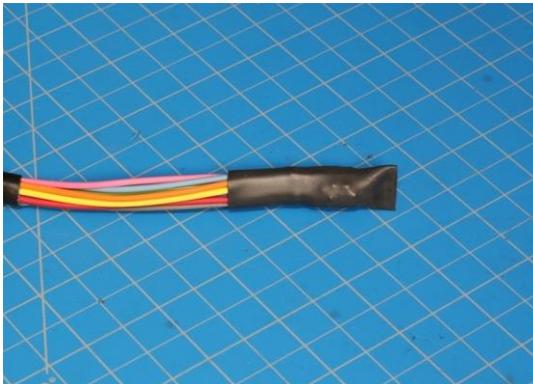
Step 3 Mount the terminal strip.

Step 4 Remove the switches from the harness and mount the switches, make sure there is room behind the location for both the switch and the switch connector

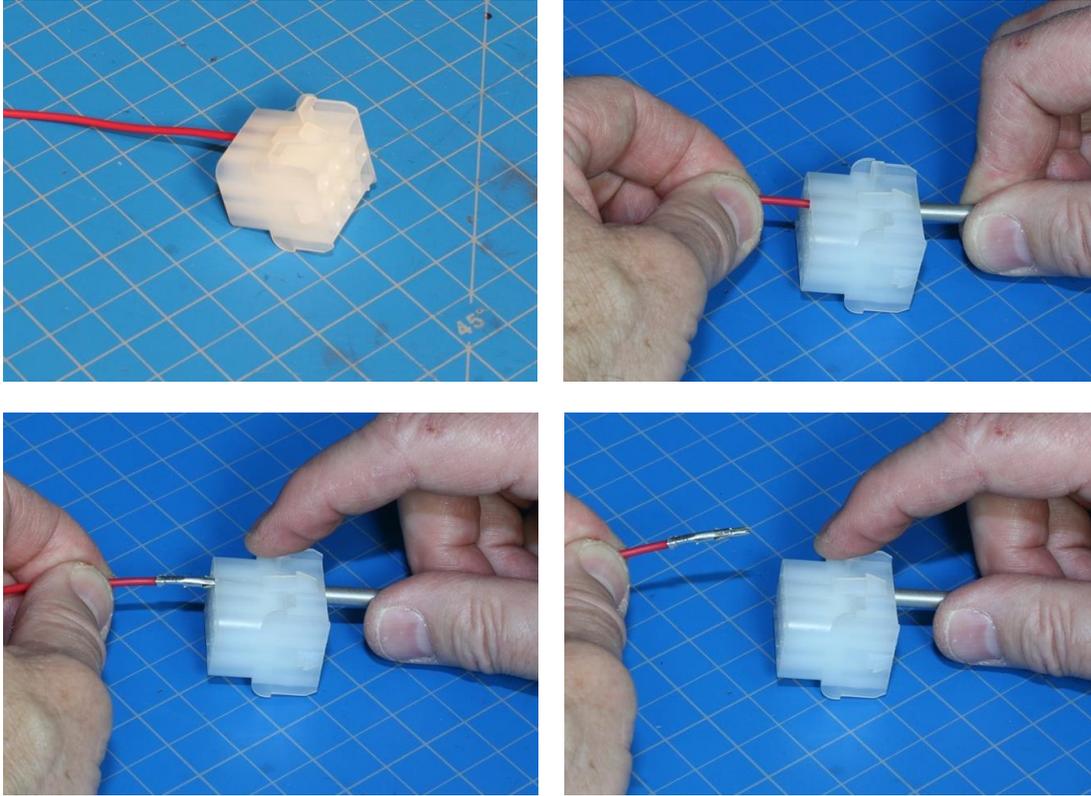


Step 5 Run the long wire harness with the **terminals that were compressed with Heat Shrink** through the fire wall to the switches.

Step 6 Using a razor blade carefully remove the Heat Shrink from the long harness making sure not to cut the wires inside. Plug the empty provided connector onto the switch harness to verify direction, then carefully remove and using the switch harness as your sample, insert the terminals into the supplied connector making sure that each color wire lines up with the opposite switch housing connector. Make sure that the terminals seat and cannot be pulled out.



If you install the wire in the wrong hole, slide the provided tool into the connector, while pushing in on the wire to get the barbs away from the housing, wiggle the removal tool onto the terminal, when set pull the wire out and install in proper hole



Step 7 After wires are inserted into connector verify that all the colors line up.

Step 8 Grease the 12 Pin Connector on the Control Box (See Below) and Connect the long harness to it.

Dielectric Grease - Just like the OEM we recommend using Dielectric Grease on all terminals, this keeps the water out and reduces corrosion and increases reliability! Open the grease and put on the 12 Pin connector terminals on the control box, the more the better.

Switch 1 through 4 should be used for your larger accessories and are on power relays, switch 5 and 6 the power goes through the switch and are used for smaller items like interior lighting or low power lights. Switch 1 also has a remote activate. The following are the switch designations.

1. Terminal 1 is Grey and is on relay 1 controlled by switch 1 with 20-amp fuse and can also be activated by applying power to the terminal with the brown wire.

Sample: Attach power from OEM High Beam to brown wire on terminal. Result, Light bar can be turned on by switch 1 or by activating the high beam in AUTO mode. Set to off position and light will not turn on with High Beam.

2. Terminal 2 is Orange and is on relay 2 controlled by switch 2 with 20-amp fuse
3. Terminal 3 is White and is on relay 3 controlled by switch 3 with 20-amp fuse
4. Terminal 4 is Red and is on relay 4 controlled by switch 4 with 20-amp fuse
5. Terminal 5 is Blue and is direct and controlled by switch 5 with 10-amp fuse
6. Terminal 6 is Green and is direct and controlled by switch 6 with 10-amp fuse

Step 9 Crimp a spade terminal onto the power wire from the item to be controlled, attach to the terminal block using the color code from the switches above. Switches 1-4 are for high power and switches 5 and 6 are for low power use.



STEP 10 Run the power cable to the battery or accessory port. Mount the 50-amp circuit breaker near enough that the short cable is close enough to attach to the positive post. Run the long power cable from the bottom of the fuse block to the circuit breaker and cut if needed and slide red shrink on wire and crimp on the copper ring terminal and shrink. Attach cable to the 50-amp circuit breaker (install Red Cover) silver terminal marked AUX then out the copper terminal to the positive terminal on the battery or to an accessory port on the block. Secure power cable with the included cable ties.

STEP 11 The yellow wire is power to the bottom row lights when upgraded switches are installed * See Below. If used attach the yellow wire to a keyed power source, this will turn on the bottom switch lights when the key is turned on.

Step 12 Attach the black wire from the harness to chassis ground.

Step 13 Attach the Positive wire from the items to be controlled to the Terminal Strip with the supplied spade connectors

Step 14 Verify operation.

*** Optional:** The harness is prewired for bottom row lit switches. We supplied basic switches since they can be lit and labeled in so many ways. When upgrading the switch use Carling SPST Switch with independent Bottom Row Lighting.

Cables and switches above can be purchased at www.xtcpowerproducts.com

More information on installation may be seen at www.xtcinstall.com . For support on installation we can be emailed at support@xtcmotorsports.net or we can be reached by phone at 480-558-8588.

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