

# Addictive Desert Designs

## 2010 – 2014 Ford Raptor Race Series R Chase Rack Installation Instructions

### PREPARATION

1. Disconnect the negative terminal on the battery. Park the vehicle on level ground and set the emergency brake.
2. We recommend reading through the installation instructions in whole before performing the work.
3. You will need the following tools:
  - a. 90' Drill
  - b. 1/2" Drill Bit
  - c. Ratchet
  - d. 3/4" Socket and Wrench
  - e. Sharpie
  - f. Utility Knife
4. Included in Kit:
  - 6 – Hex Head Bolts – 1/2"-13 x 1 1/2"
  - 12 – Flat Washers – 1/2"
  - 6 – Nylon Locking Nuts – 1/2"-13
  - 6 – Mounting Plates



### INSTALLATION

1. Set Race Series R Chase Rack into position on bed cap. Align the front edge of the flat channel to the plastic cover piece as shown to the right.
2. Mark the six hole locations with sharpie and move the chase rack out of the way.
3. Drill the 6 marked holes with the 1/2" Drill Bit and Drill. Clean any burrs in the plastic with a utility knife.
4. If you purchased any lights for your chase rack, now is a good time to install those.



5. Fit the Chase Rack onto the truck and attach it using the supplied 1/2" bolts (x6), 1/2" washers (x12), 1/2" nuts (x6), and mounting plates (x6). Install the bolt with a washer through the chase rack and bed, then add the mounting plate, washer, and locking nut on the backside, in that order. Repeat this for all six bolts. Leave these finger tight until they are all installed, then tighten them to 70 foot pounds.
6. Stand back and enjoy your A.D.D. Race Series R Chase Rack.
7. Check and re-tighten if needed, all mounting bolts after 100 miles and periodically thereafter.



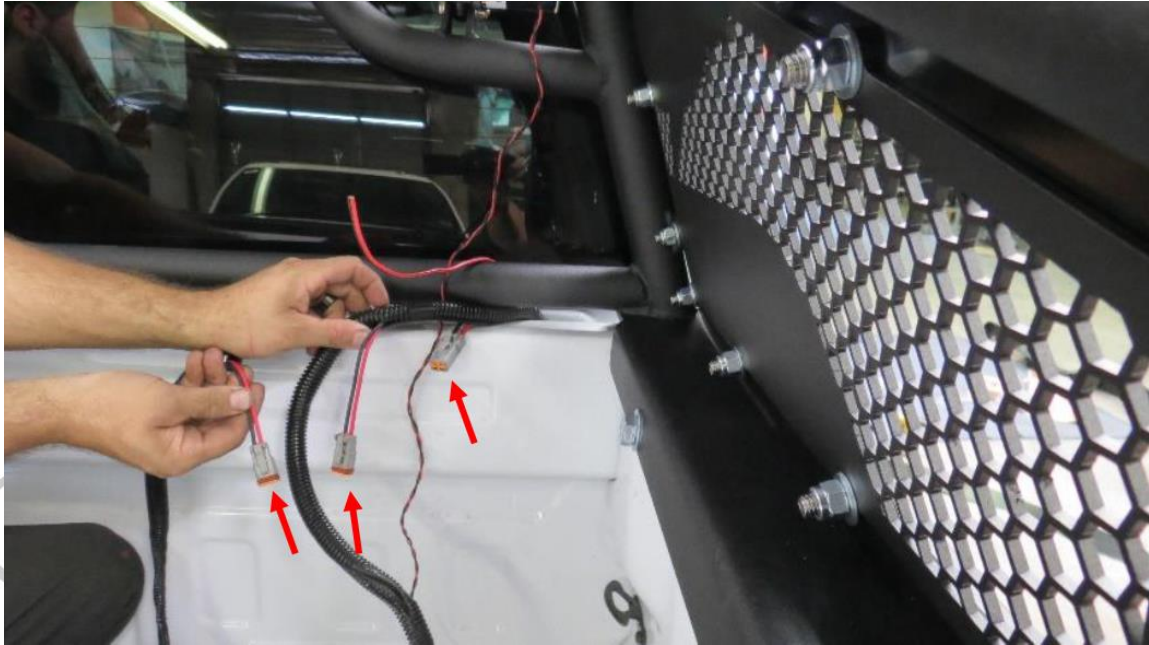
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Please Call 480.671.0820 or  
Email [info@addictivedesertdesigns.com](mailto:info@addictivedesertdesigns.com)

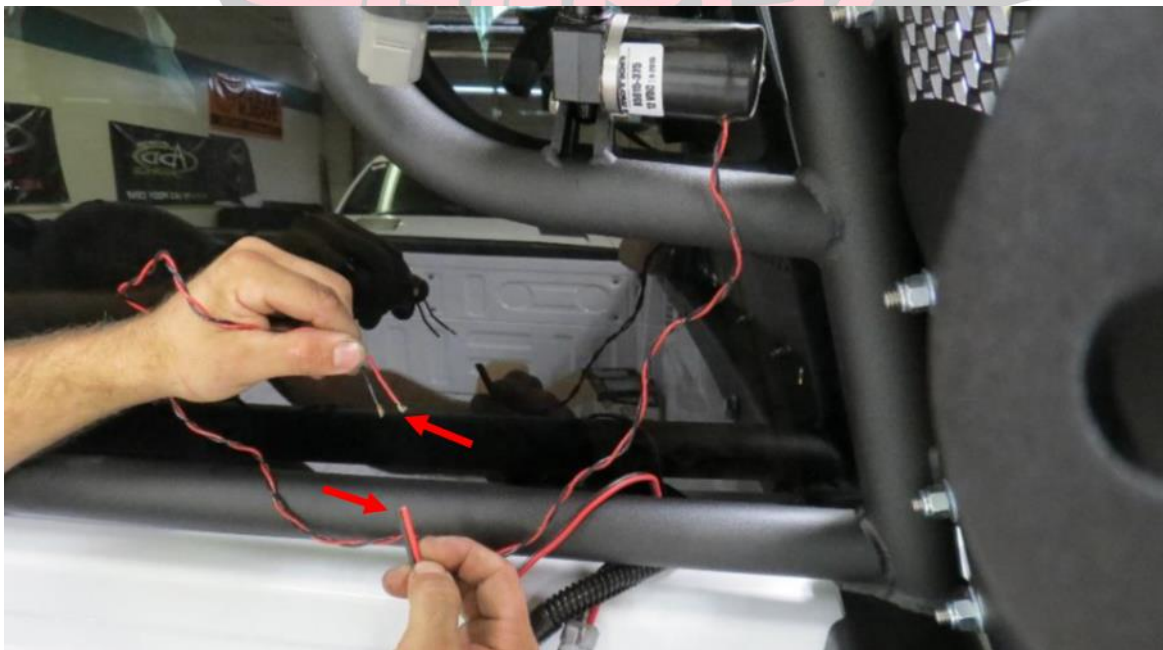
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# Wire Harness for Actuator and Lights in Race Series Chase Rack

1. After completing the installation of your Race Series Chase Rack, begin the installation of the wire harness for the actuator by laying out the provided wire harness along the passenger side of the frame rail with the 3 light plugs towards the rear of the truck. Be sure to leave enough room for the plugs to go in between the bed and cab of the truck, up to the bed rail.
2. Hook all the light plugs to the lights mounted. Secure all the wires.



3. Connect the red and black actuator wires on the harness to the red and black wires coming from the actuator. Connect the red to red and the black to black. Secure the wires.





4. Proceed to run the wire harness down the frame rail towards the front of the truck on the passenger side.



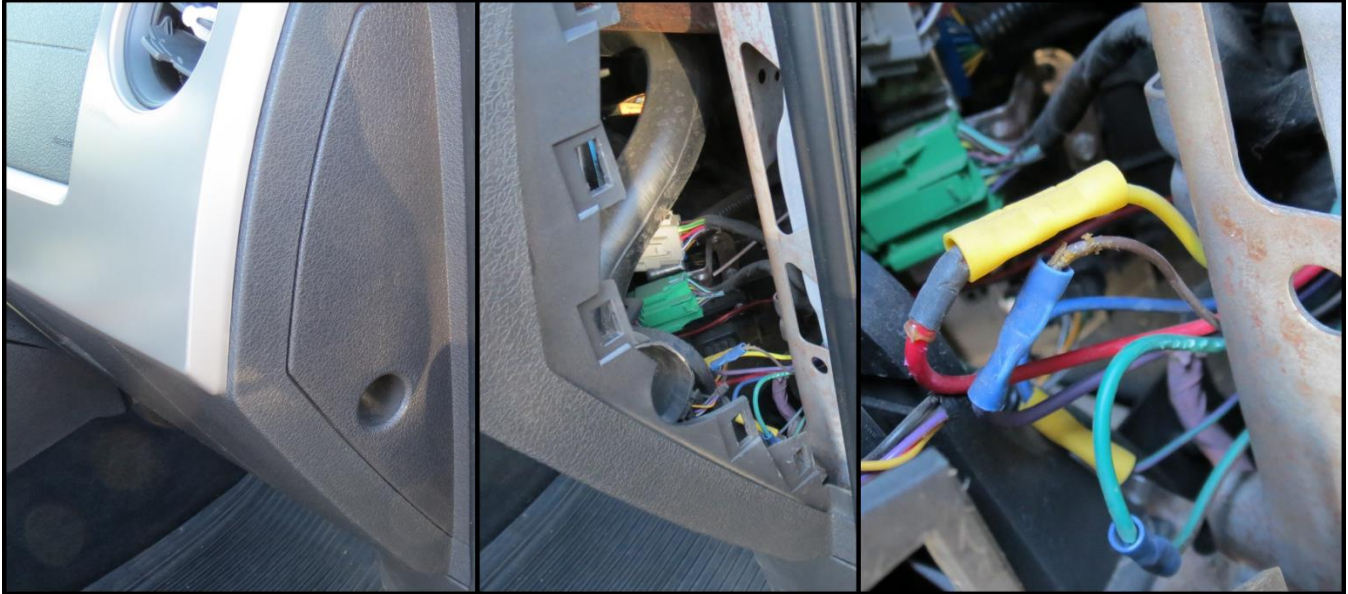
5. Connect the ground (black wire). Pre drill a hole for a self-tapping screw in the body mount at the center of the truck.



6. Here is where the wires will separate and go different directions. The two Red wires with blue butt connectors (for the 50" and Duallys) will go forward and into the cab through the rubber grommet on the passenger side floorboard.
7. Connect the two Red wires to the Up fitter switches in your truck.
  - a. Pull off the panel to the right of the glove box. If you need to move the glove box out of your way, empty everything out of it and push the sides together to allow it to swing down out of the way.
  - b. There are two bundles of 4 dead wires that are behind the access panel you just removed. These wires have black heat shrink on the very end of them and are not connected to anything. Look for the bundle with following colored wires in it; yellow, green with a brown stripe, violet with a green stripe, and brown.
  - c. Using the butt connectors already connected the ends of the red wires on your chase rack lighting harness, connect those red wires to the wires for the switch you want each light to be connected to.

- d. Since switches 3 and 4 have significantly lower amperage ratings than switches 1 and 2, we recommend connecting any light bigger than a 10" bar light to either switch 1 or 2.

Switch	Wire Color	Amp Rating
1	Yellow	30 Amps
2	Green with Brown Stripe	30 Amps
3	Violet with Green Stripe	15 Amps
4	Brown	10 Amps



8. The other two wires (Red and Black) will cross through the transmission cross member towards the driver's side of the truck. Then follow up the frame rail to the floor board grommet and bring through floor board. Follow up the dash to desired location for the actuator switch.



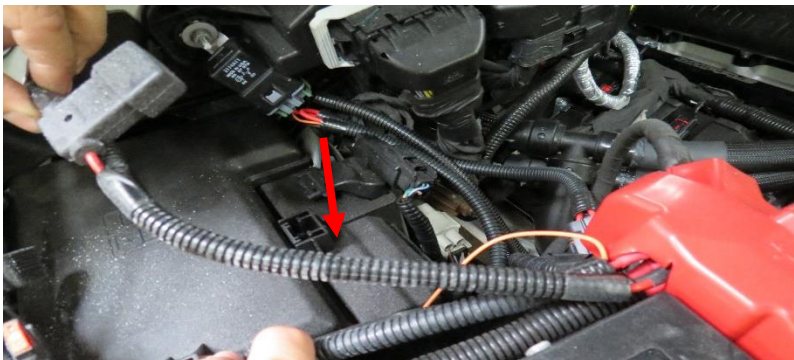
9. Install the switch in desired location (We chose this spot). Use a 7/16" Drill Bit to cut hole in desired switch location. Mount switch in hole with threaded washer.



10. Wire Red wires to opposite corners on 6-way switch. Wire Black wires to remaining opposite corners on 6-way switch.



11. Use the second actuator harness for power. Wire this from the battery around the back of the firewall to reach the driver side and pass through the firewall at the rubber grommet.



\*\*We wired ours across the back of the firewall under the stock matting as shown\*\*

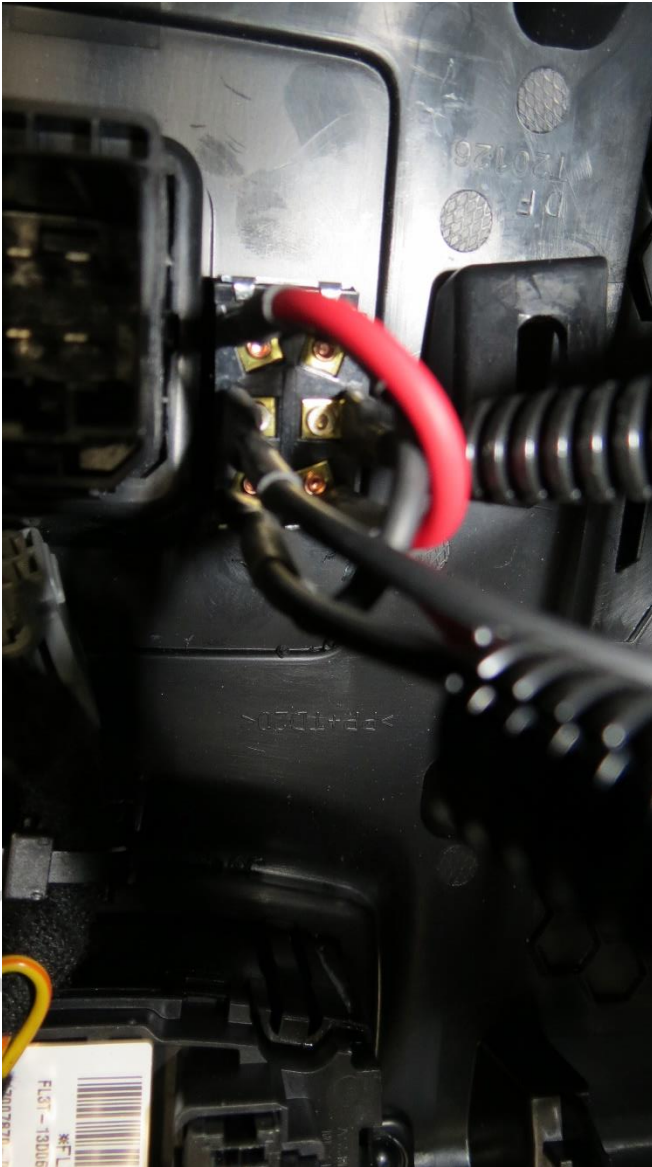




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12. Thread wires to the desired location of the switch. Then connect the Red wire to middle post on switch and the Black wire to the opposing post.



13. Ground out the Black wire and post to a nearby bolt.
14. Test function up and down and make adjustments for switch orientation.  
\*\*\*\*\*Only hold the switch until it stops or light bar is at desired angle for up and down operation.  
Extended power at max positions may burn out actuator motor\*\*\*\*\*  
Be sure to adjust the heim and tighten the nut on the end of the actuator so it does not come out while driving off road with the bar up.
15. Enjoy your new actuated light and chase rack!