

Preparation:

- Disconnect the negative battery terminal. Park the vehicle on level ground and set the emergency brake.
- We recommend reading through the installation instructions in whole before performing the work.
- Estimated Installation Time: .5 Hours for Installation

2 Additional Hours to Wire Lights/Actuator

This installation requires 2 people for best results

You will need the following tools:

- Ratchet - 3/4" Wrench - Wire Crimpers - Drill - 1/2" Drill Bit - 7/16" Drill Bit

- 5/16" Allen Wrench/Socket

Included in Kit:

6 - Backing Plates **6** - Button Head Bolts (1/2"-13 x 1 1/2")

12 - Flat Washers (1/2") 1 - Wire Harness Set (2 Pieces Total)

6 - Nylon Lock Nuts (1/2"-13) 1 - Actuator Toggle Switch

Installation:

1. Set the chase rack into position on your bed cap. Align the front edge of the chase rack's mounting plate to the front edge of the plastic bed rail cover. (Fig A)





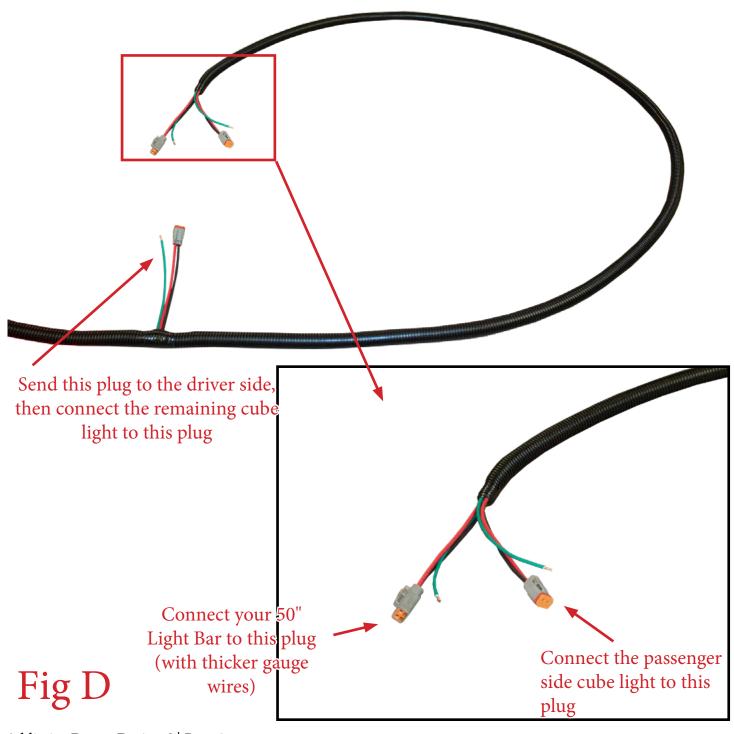
2. You will use 3 of the mounting holes in the chase rack's rail. Using a drill with a 1/2" Drill Bit, mark out and drill these 3 mounting holes. Refer to (Fig B) to see which holes to use.



3. Line the mounting holes on the chase rack up with the newly drilled mounting holes on the bed rail. Then, use the supplied 1/2" Bolts (x6), 1/2" Washers (x12), Backing Plates (x6), and 1/2" Lock Nuts (x8). Mount the hardware exactly as shown in (Fig C). Once all bolts are loosely installed, torque the mounting bolts to 70 foot pounds.



- 4. If you have any lights to install on your chase rack, please do so now. Follow the light manufacturer's guide for mounting and wiring information.
- 5. After completing the installation of your 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.
- 6. Send the harness end with the three light plugs up between the cab and the bed of the truck. Hook light plugs to the mounted lights. Then, secure the wires. Connect any backglow wires to the green wires from the harness. (Fig D)





7. Run the harness along the chase rack to the passenger side. Line the black and red bare wires up with the black and red wires from the chase rack actuator. Use the butt connectors supplied with our harness to make this connection. (Fig E)



8. Run the harness down the frame rail towards the front of the truck on the passenger side. (Fig F)



- 9. Send the two red wires with blue butt connectors (for the 50" and the cube lights), the green wire (for every light's backglow), and black wire with an eyelet (for ground) forward into the engine bay on the passenger side.
- 10. Connect the black wire with the eyelet on the end of it to the negative terminal of the battery.
- 11. If your truck does not have upfitter switches, use the light bar manufacturer's harness as you normally would, but use the larger gauge red wire as the power wire for the 50" Light Bar, use the smaller gauge red wire as the power wire for the cube lights, and use the green wire as the power wire for the backglow (if applicable). Then, skip to Step 16

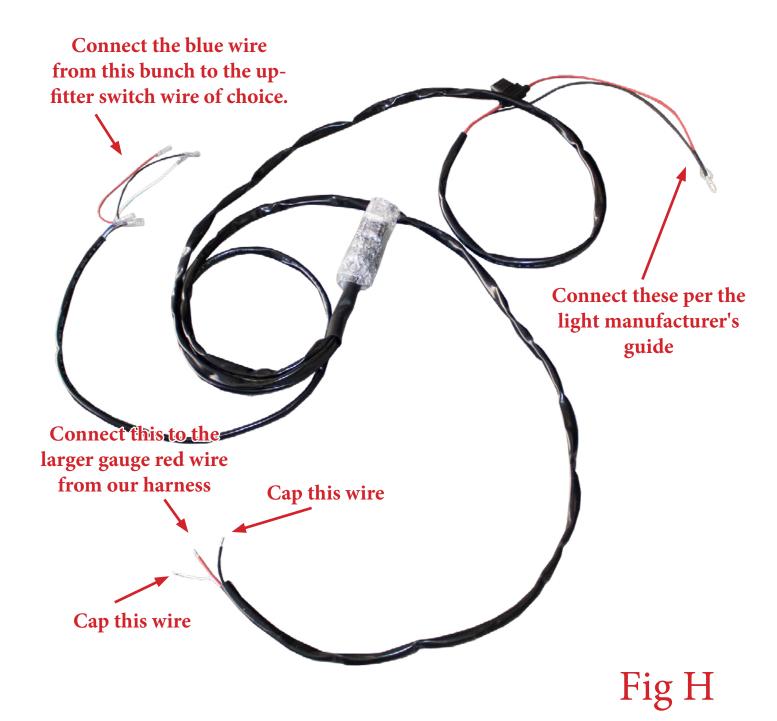
If your truck has upfitter switches, follow Steps 11-15.

12. Find the upfitter switch wires. Look towards the rear/passenger side of your engine bay. Behind the battery and underneath the computer, there is a bundle of wires taped to a bigger harness. These are your upfitter switch wires. The location and colors are different between models years. Refer to (Fig G) for location and colors.



- 13. Connect the green wire to the upfitter switch of your choice. This wire will control the backglow for each light (if applicable).
- 14. The larger gauge red wire (for the 50") needs to be connected to the light bar's wire harness before it is connected to the Upfitter switch wires. Run the light bar harness as you normally would, but instead of hooking up the supplied switch, connect the relay trigger wire to the Upfitter switch wire that corresponds to the switch number you would like to activate your 50" bar. Then, connect the red power wire that normally gets connected to the light to the red wire from the chase rack harness. You can leave the black wire that normally gets plugged into the light bar disconnected. If you have any questions about which wires in your light bar's harness are the relay trigger or light power wires, please contact the light manufacturer as every manufacturer uses a different harness. (Fig H) shows an example of one style of light bar harness and how to use it with our supplied chase rack harness. If your harness has a backglow option, cap off the backglow wires.







15. Check the amperage rating of your cube lights (it should be listed on the box) against the amperage rating of the switch you would like to hook it up to. If the amperage of your lights is equal to or greater than the amperage rating of the switch you would like to hook it up to, then you will have to use a relay harness for your cube lights just as you did for your 50". If the amperage rating of your cube lights is less than the amperage rating of your Upfitter switch, then you can connect the cube light wire from the chase rack harness directly to the Upfitter switch wire. Check (Fig I) for the Upfitter switch amperage ratings.

Switch Number	Amperage Rating
1	15
2	15
3	10
4	10
5	5
6	.5

Fig I

16. Open the driver side door and remove the two kick panels. There are no tools required for this step, they simply pull off by hand. Pull the carpet up and find the rubber body plug. Take this body plug out, cut a slit in it, then reinstall it. (Fig J)



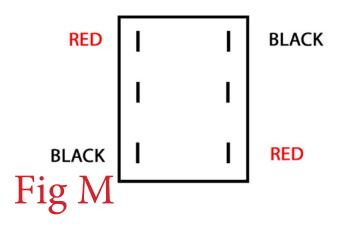
17. The remaining two wires in the chase rack harness (red and black) will cross through the transmission cross member towards the driver's side of the truck. Then follow up the frame rail to the rubber body plug. Pass these wires through the slit you just cut in that rubber body plug. (Fig K)



18. Install the supplied switch in desired location. Use a 7/16" Drill Bit to drill your hole, then install the switch in your newly drilled hole. (Fig L)



19. On the back side of the switch, connect both red connections (from your chase rack harness) to opposite corners. Then, connect both black connections to the remaining opposite corners. Leave the middle posts unused for now. (Fig M)





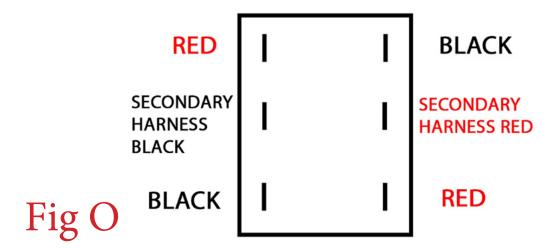
20. Find the secondary actuator harness. Connect this harness to the battery +. Route the harness around the back of the firewall to reach the driver side of the engine compartment. Then, pass it through the firewall at the rubber grommet shown in (Fig N)







23. Bring the wires to the back of the switch. Then, connect the red wire to either of the middle posts on the switch. Connect the black wire to opposing middle post. (Fig O)



- 24. Mount the eyelet from the secondary harness to a nearby ground bolt.
- 25. Test the actuator's up and down function. You may have to flip the switch 180 degrees if the up/down functions are backwards.

******Only hold the switch until the actuator stops or the light bar is at desired angle. Extended power at max positions may burn out the actuator motor******

- 26. Reinstall the driver side kick panels.
- 21. Stand back and enjoy your new ADD Race Series™ R Chase Rack.
- 22. Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.



For Additional Support or Technical Questions, Please Call 480-671-0820 or Email Info@AddictiveDesertDesigns.com