

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



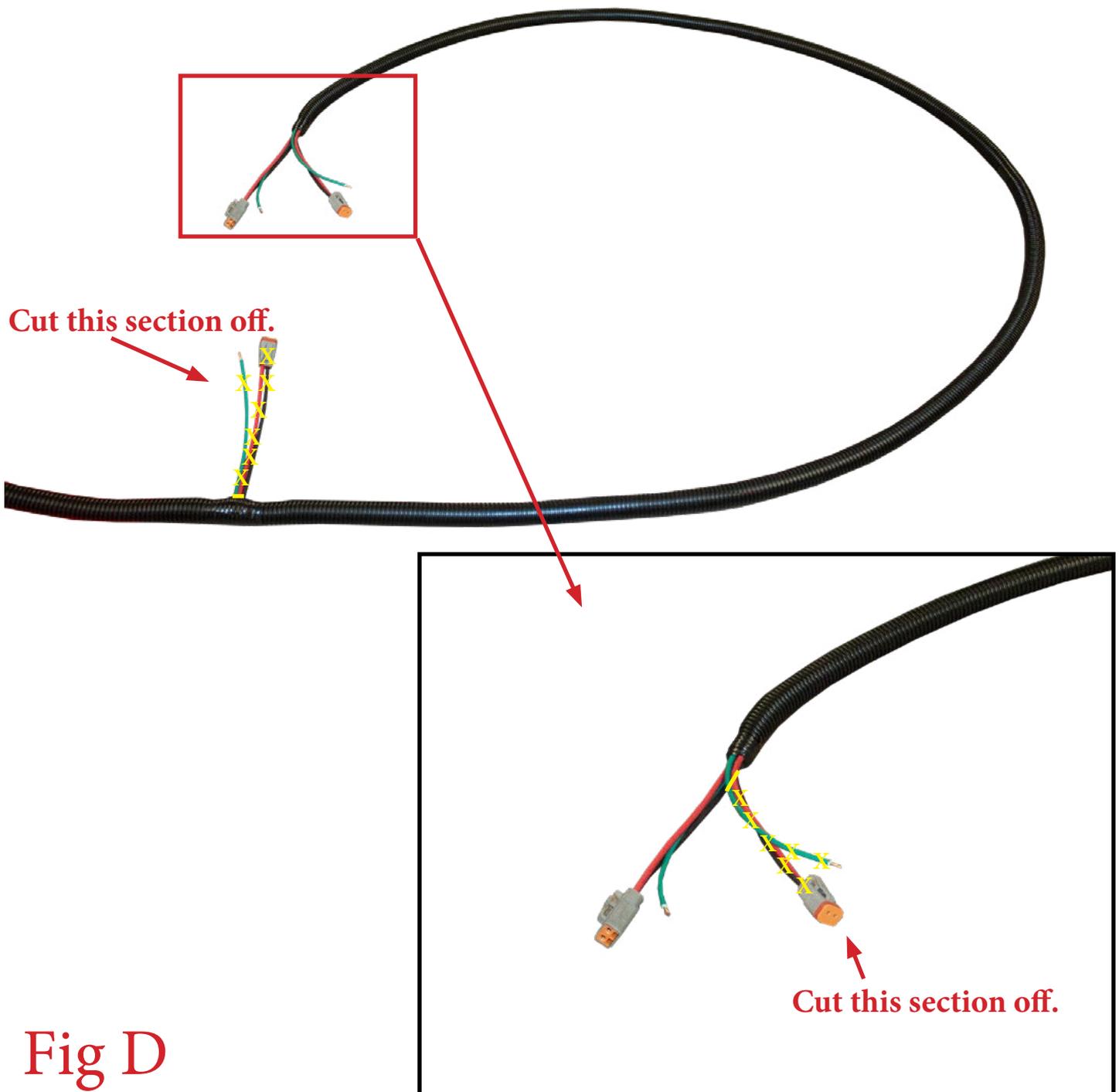
2. You will use 3 of the mounting holes in the chase rack's rail. Using a drill with a 1/2" Drill Bit, mark out and drill these 3 mounting holes. Refer to (Fig B) to see which holes to use.



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. Pictured below is the main portion of the chase rack harness. Since this harness is designed to fit more than one vehicle, that are parts that won't be used. Simply cut off the parts referenced in (Fig D) and cap the individual wires off with electrical tape so that none of the bare wires can touch.



7. Set the harness in place on the chase rack so that the main connector (with the larger gauge wires) lands on the driver side. If your light bar does not have a connector on it, you can cut the connector off of our harness and connect the harness to your light bar using the butt connectors or connector kit that comes with your light bar. (Fig E)



Fig E

8. 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 F)



Fig F

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



10. Send the two red wires with blue butt connectors (for the 50" and the other is unused), the green wire (for the light's backglow), and black wire with an eyelet (for ground) forward into the engine bay on the passenger side.

11. 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 H)



12. 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 I)



13. Find the secondary harness. Connect the red eyelet to the positive terminal of the battery. (Fig J)
From this point forward be careful not to touch the other end of the red wire to any grounds as it will be live. You could pull the fuse out of the fuse holder for now to kill power to other end of the wire until the end of the installation.



14. Run the secondary harness to the driver side of the engine bay as shown in (Fig K).

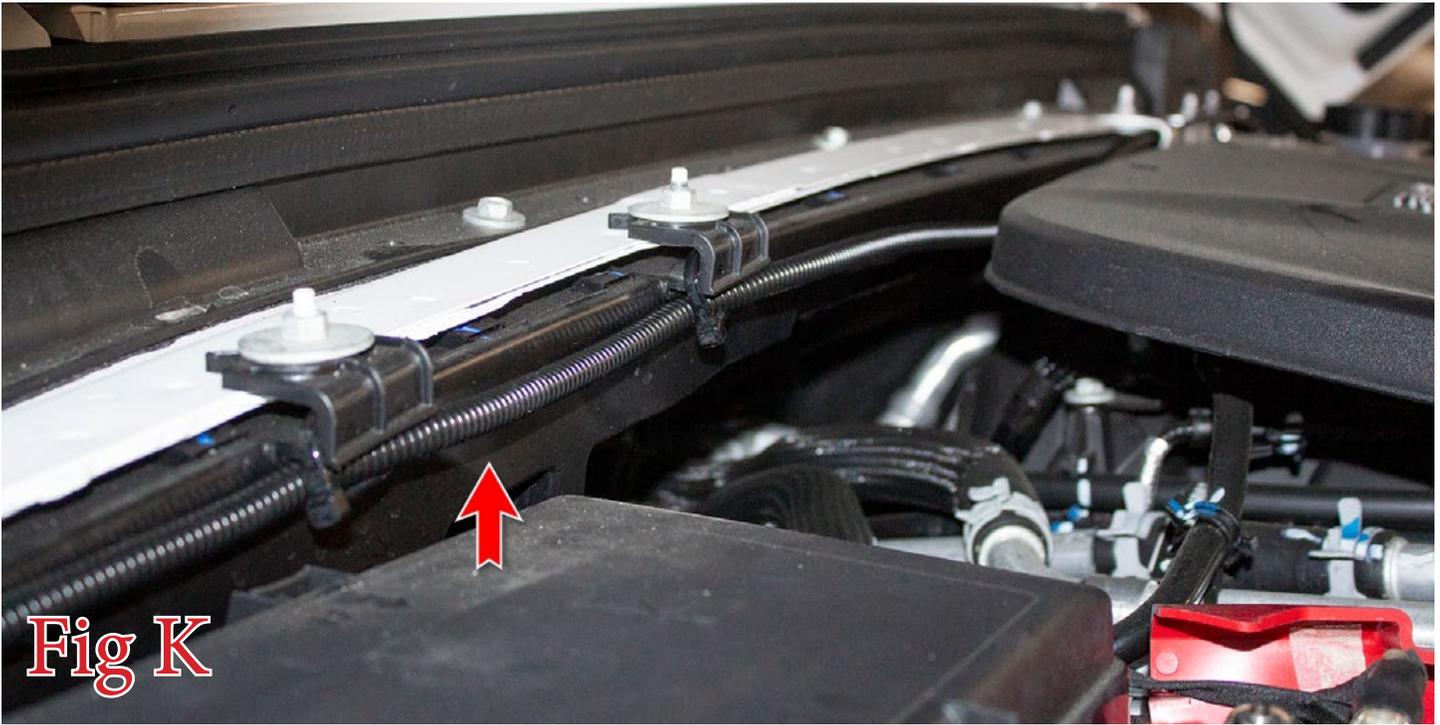


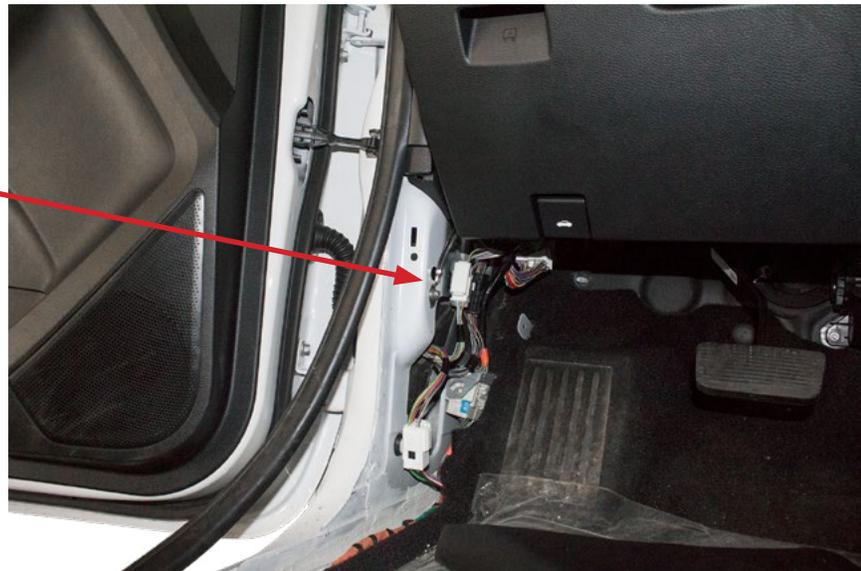
Fig K

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



Fig L

16. Connect the black wire with the eyelet on the end (from the secondary harness) to a suitable ground bolt somewhere under the dash area. (Fig M)



17. Connect the wires to the toggle switch as shown in the diagram below (Fig N).

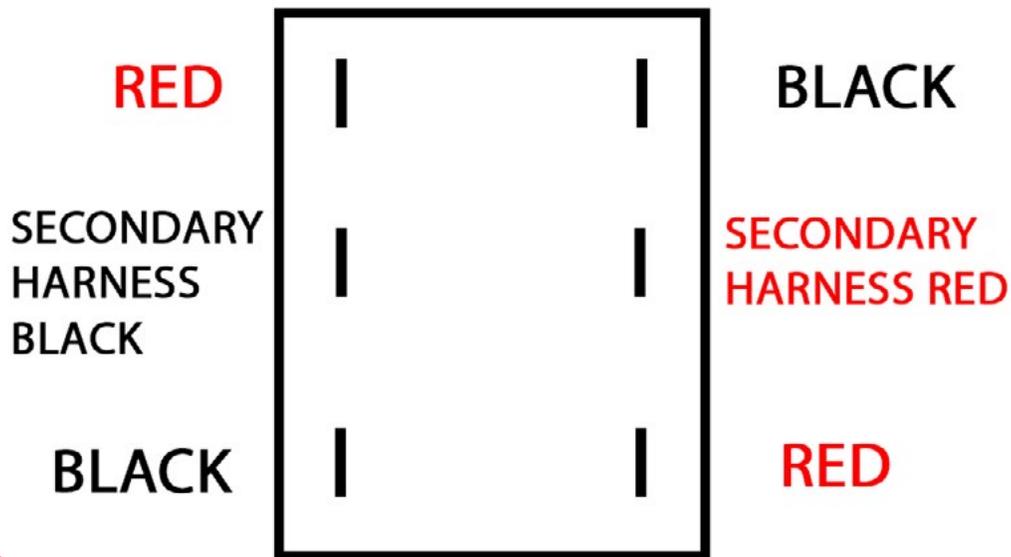
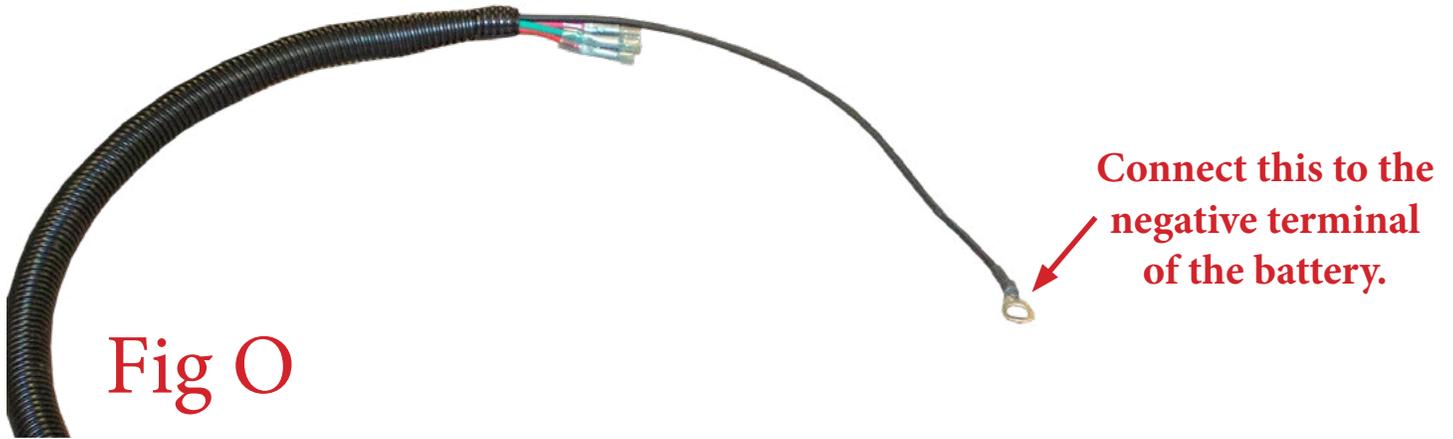


Fig N



18. Go back to the part of the main harness that was sent into the engine bay in Step 10. Connect the eyelet on the end of the black wire from that portion of the harness to the negative terminal of the battery or another suitable ground under the hood. (Fig O)



19. Install the light manufacturer's harness according to their installation instructions, except the power/ground/backglow wires that go to the light bar. For those, connect the power wire from the light bar harness to the larger gauge red wire from our harness. Connect the backglow wire from the light bar harness to the green wire from our harness. Cap the ground wire from the light bar harness. The following illustration is an example of one light manufacturer's harness, other manufacturer's harnesses may look different. (Fig P)

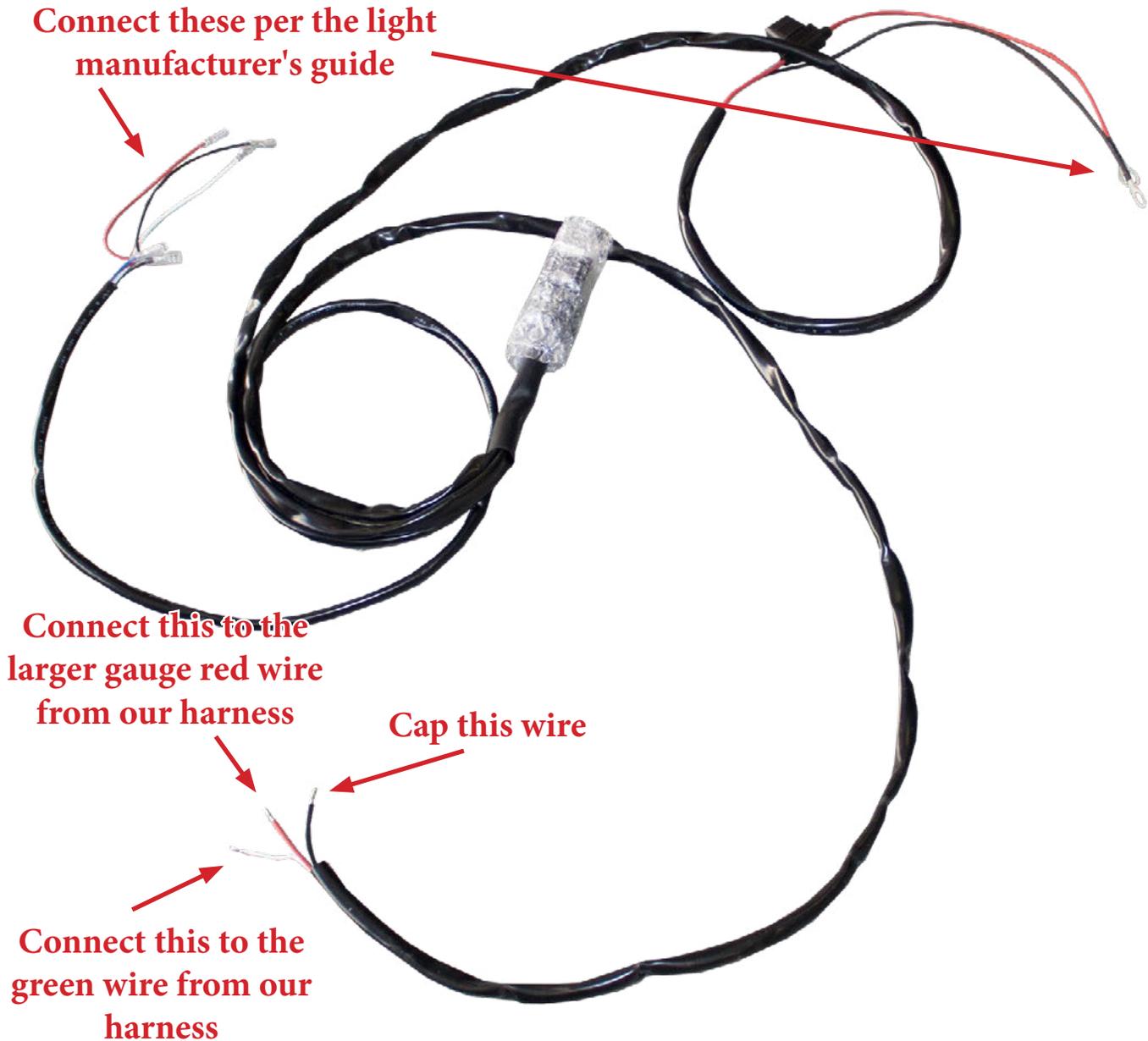


Fig P

20. 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 the desired angle. Extended power at max positions may burn out the actuator motor****

21. Reinstall the driver side kick panels.

22. Zip tie any loose sections of the wire harness up and out of harm's way.

23. Stand back and enjoy your new ADD Race Series™ Chase Rack.

24. Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.

