

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.
- When button head bolts are being used, install the supplied washer on the nut side. Then, hold the bolt stationary and only turn the nut to tighten. Do not turn the bolt to tighten hardware assembly, unless otherwise noted.
- Estimated Installation Time: **1 Hour for Chase Rack Installation**

2 Additional Hours to Wire Light/Actuator

This installation requires 2 people for best results

Labor Rates are based on a vehicle with no pre-existing damage. Wiring labor is based on a standard wiring procedure with light switches installed in an easily accessible location. Custom light triggering or switch mounting location will result in a greater labor charge.

You will need the following tools:

- | | | |
|-------------------|-----------------------------|-----------------|
| - Ratchet | - 5/16" Allen Wrench/Socket | - Wire Crimpers |
| - Zip Ties | - 13mm Socket | - Drill |
| - 7/16" Drill Bit | - 1/2" Drill Bit | |

Included in Kit:

- | | | | |
|---|--|---|---|
| 8 | - Black Button Head Bolts (1/2"-13 x 1") | 8 | - Black Washers (1/2") |
| 8 | - Square Rack Mount Nuts (1/2"-13) | 2 | - Black Hex Head Bolts (M8-1.25 x 30mm) |
| 2 | - Black Washers (M8) | 1 | - Actuator Harness (Two Pieces) |

Installation:

1. If you have a light to install on your Chase Rack, do so now. Use the mounting hardware provided by the light manufacturer.
2. Find the supplied square rack nuts. Slide 4 of these into each side rail as shown in (Fig A).



Fig A

3. Set the Chase Rack in place on the vehicle. Then, install the supplied M8 Bolts (x2) and M8 Washers (x2) through the front mounting tabs of the rack and into the threaded holes on the vehicle's bed. (Fig B) Leave these bolts loose for now.



Fig B

4. Line the square rack nuts up with the mounting holes on the rack. Then, install the supplied 1/2" Bolts (4 per side) and 1/2" Washers (4 per side) through the rack and into the square rack nuts. (Fig C)



5. Torque the 1/2" bolts to 57 foot pounds, and the M8 bolts to 22 foot pounds.

Wiring:

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.

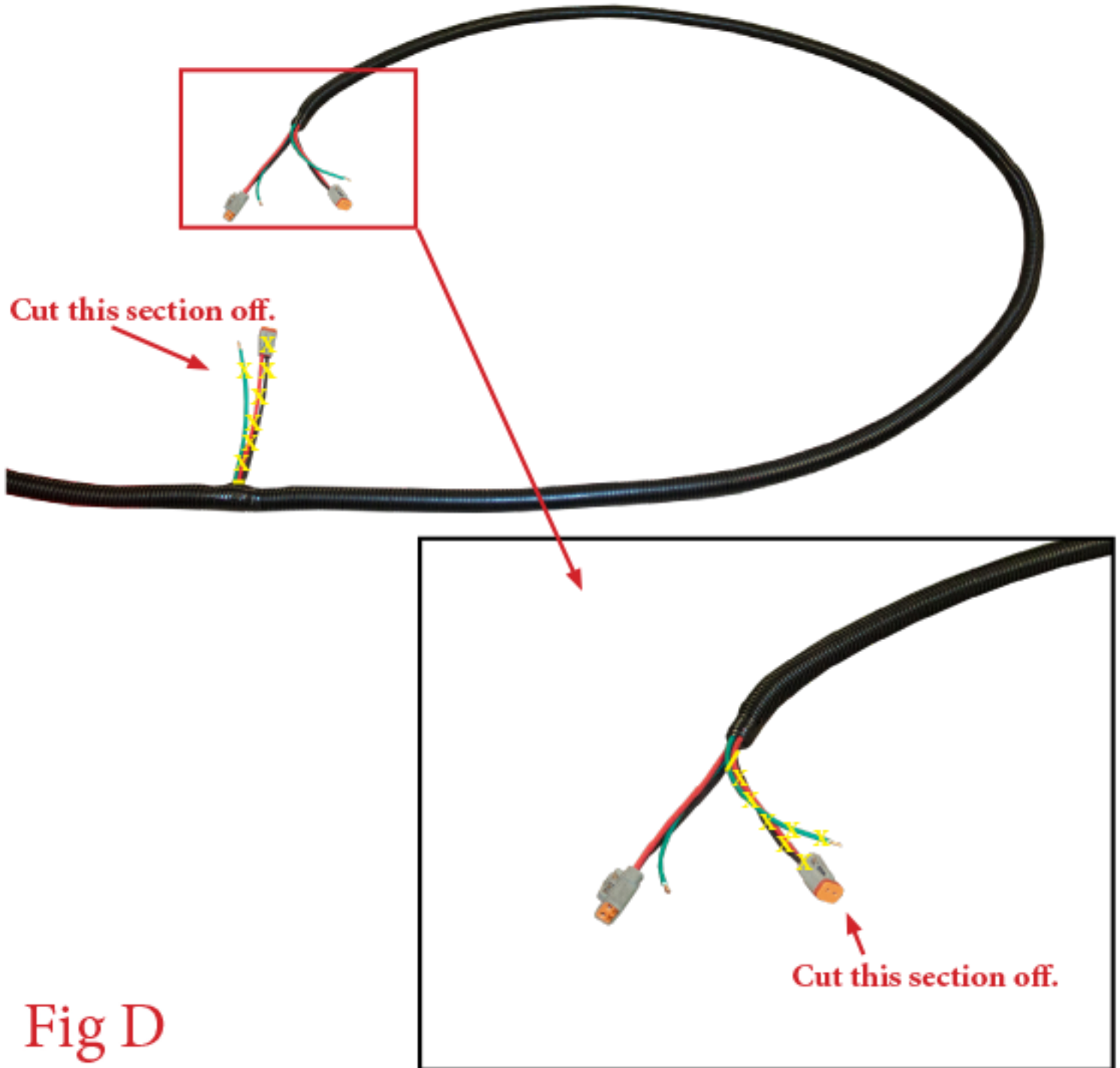


Fig D

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)

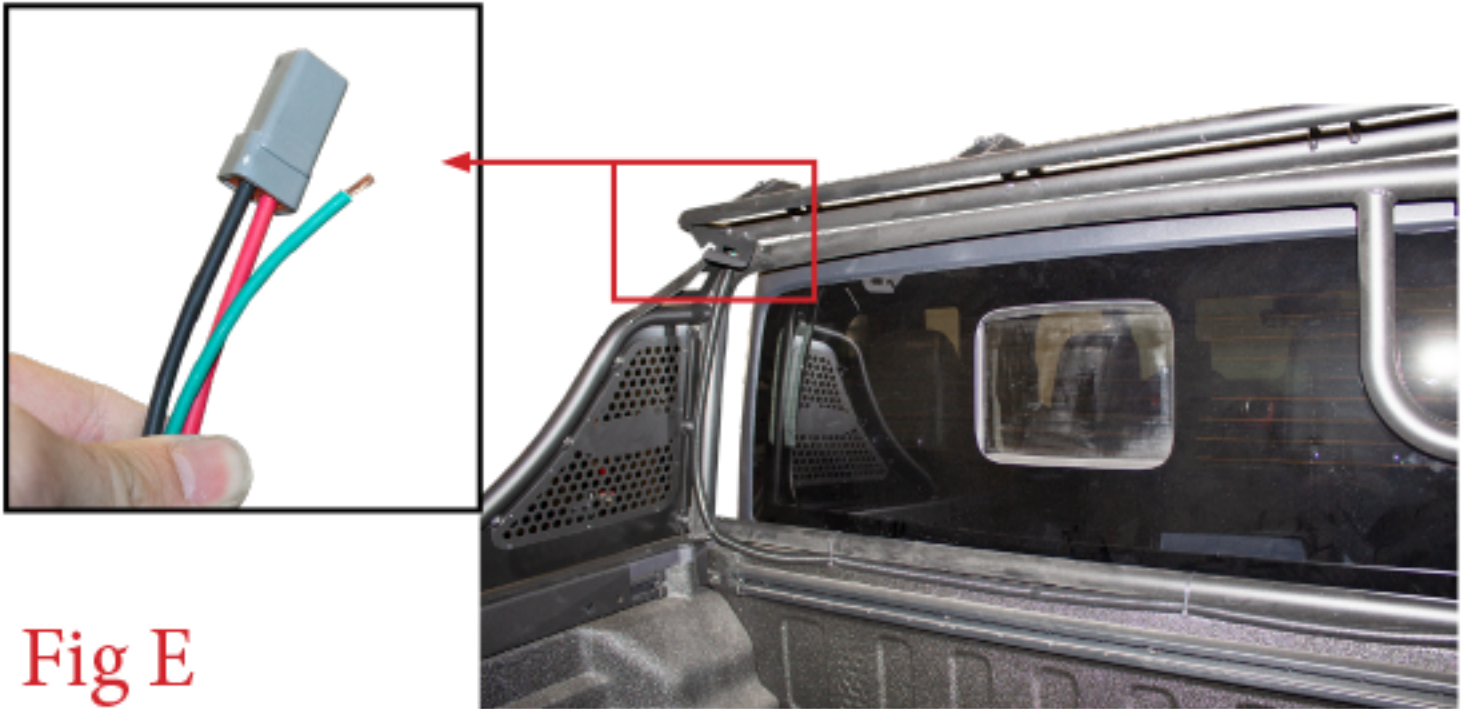


Fig E

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. Send the harness down between the bed and the cab of the vehicle on the passenger side. (Fig G)

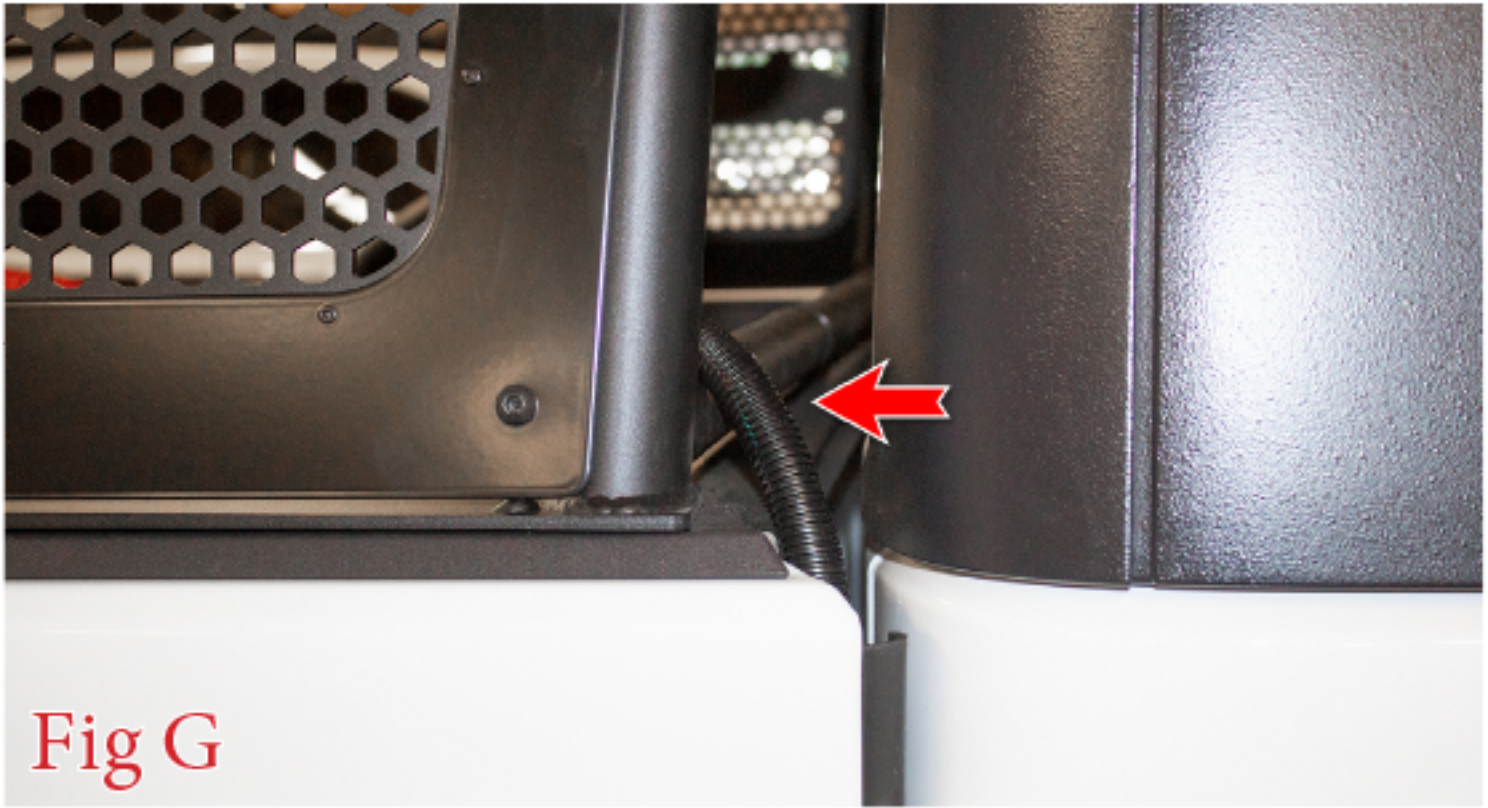


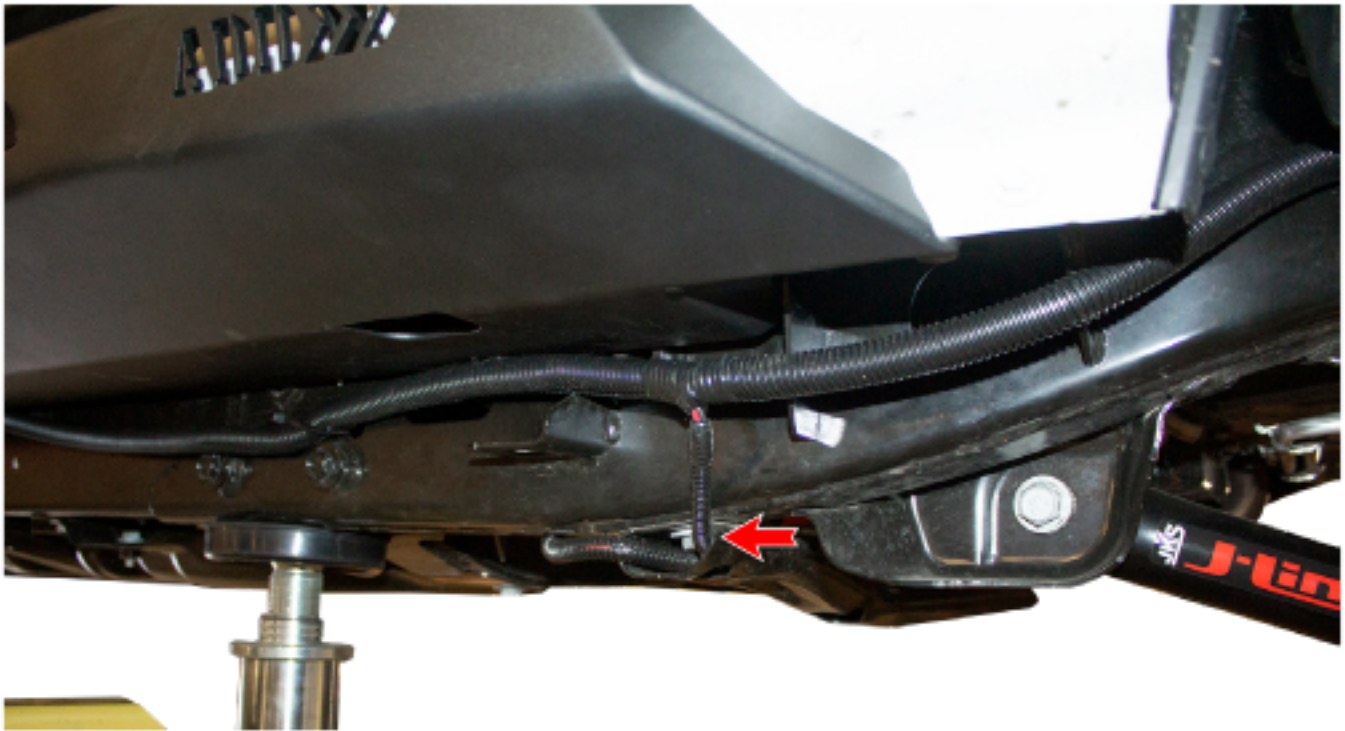
Fig G

10. Send the harness down the length the vehicle along the frame rail. Be sure to zip tie it up and out of harm's way. (Fig H)



Fig H

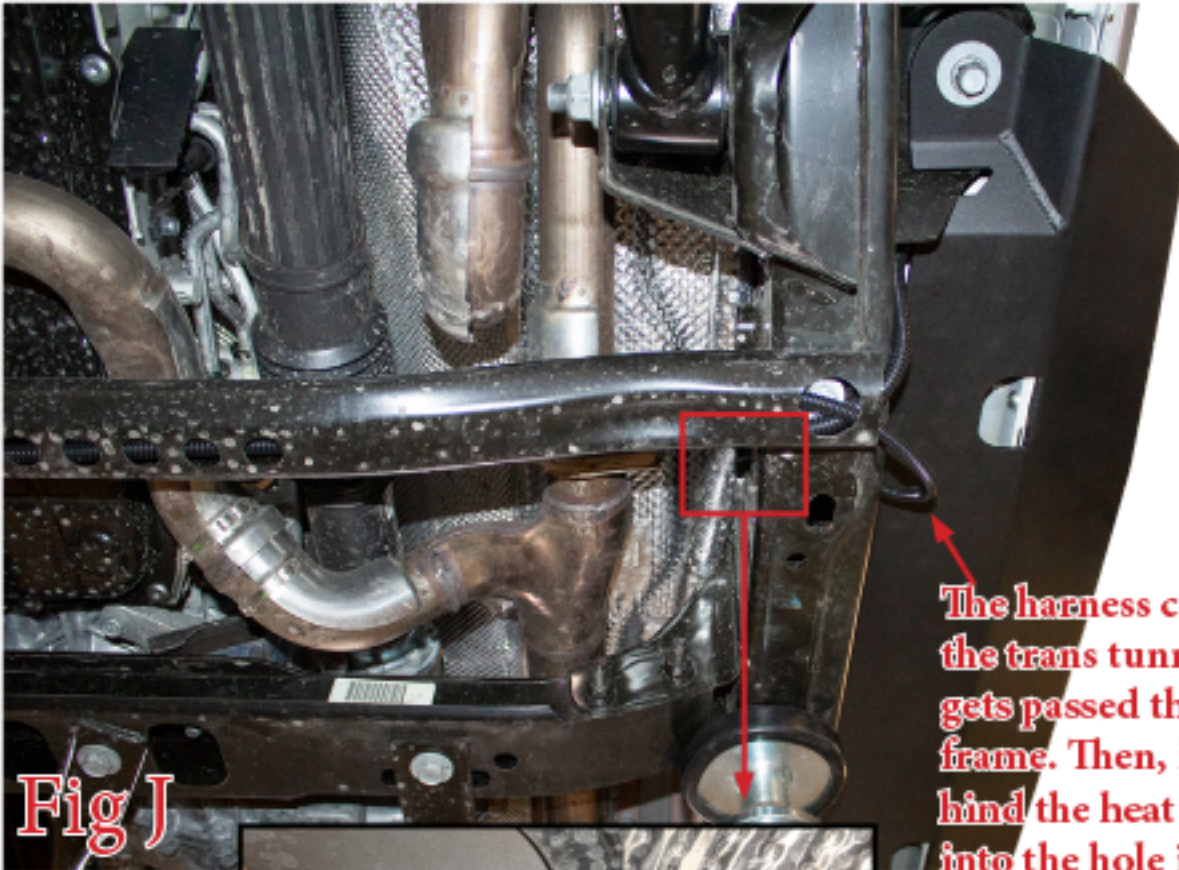
11. Line the split in the harness up with the trans tunnel of the vehicle (there will be extra slack in the harness that you will need to take up). Then, pass that portion of the harness (the thin section with the split red and black wires) through the trans tunnel.



12. Inside the driver side of the vehicle, pull any floor mats out of the way and find the rubber plug underneath the vehicle's carpet. Pull that rubber plug out. (Fig I)



13. One person will need to send the harness up through the hole in the bottom of the body (shown in Fig J) as someone else grabs the harness from the top (through the hole you just removed the rubber plug out of). Keep the wiring away from the exhaust.



The harness comes out of the trans tunnel here and gets passed through the frame. Then, it is passed behind the heat shielding and into the hole in the body.



14. Cut a slit in the rubber plug you removed in Step 12. Then, pass the harness through that slit and reinstall the rubber plug in its original location. (Fig K)



Fig K

15. Remove the kick panel referenced in (Fig L). Pop the trim along the bottom of the doorway loose as well. Do this by pushing it towards the center of the vehicle. It won't come all the way off, but it will get loose enough for you to pass the wires through it.



Fig L

16. Pass the wires through the kick panels as shown so that they are sitting behind the bottom portion of the dash. (Fig M)

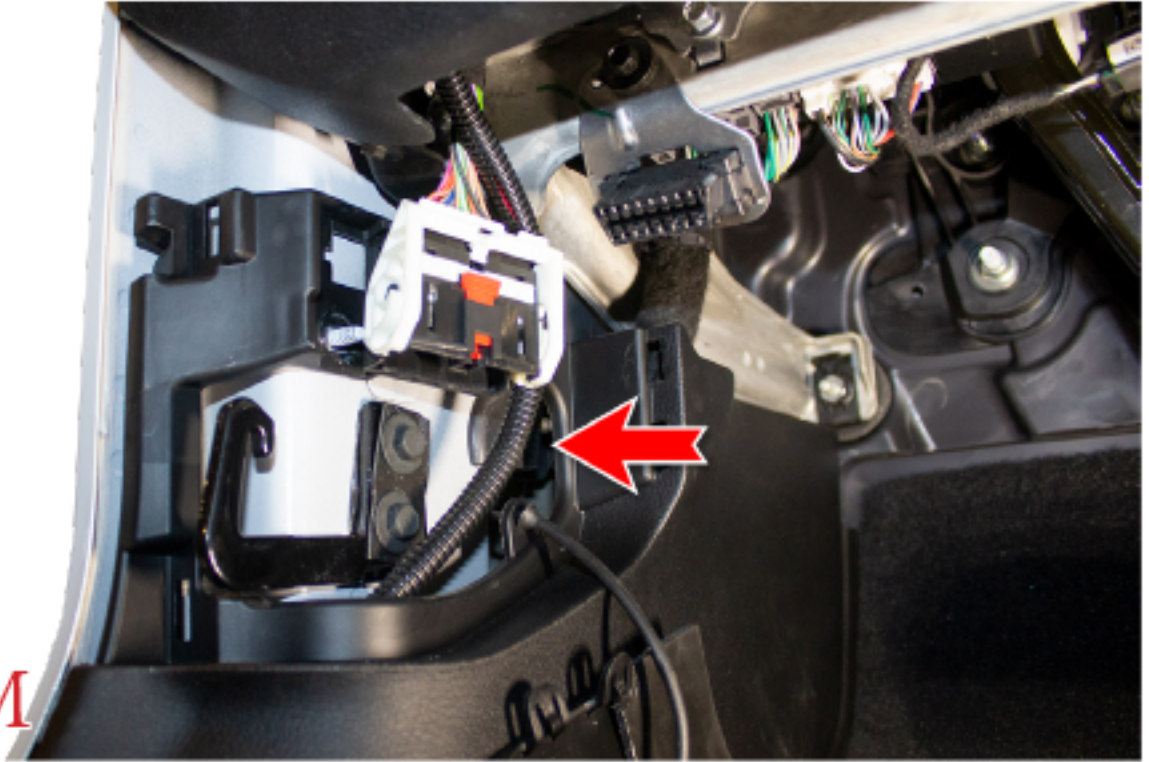


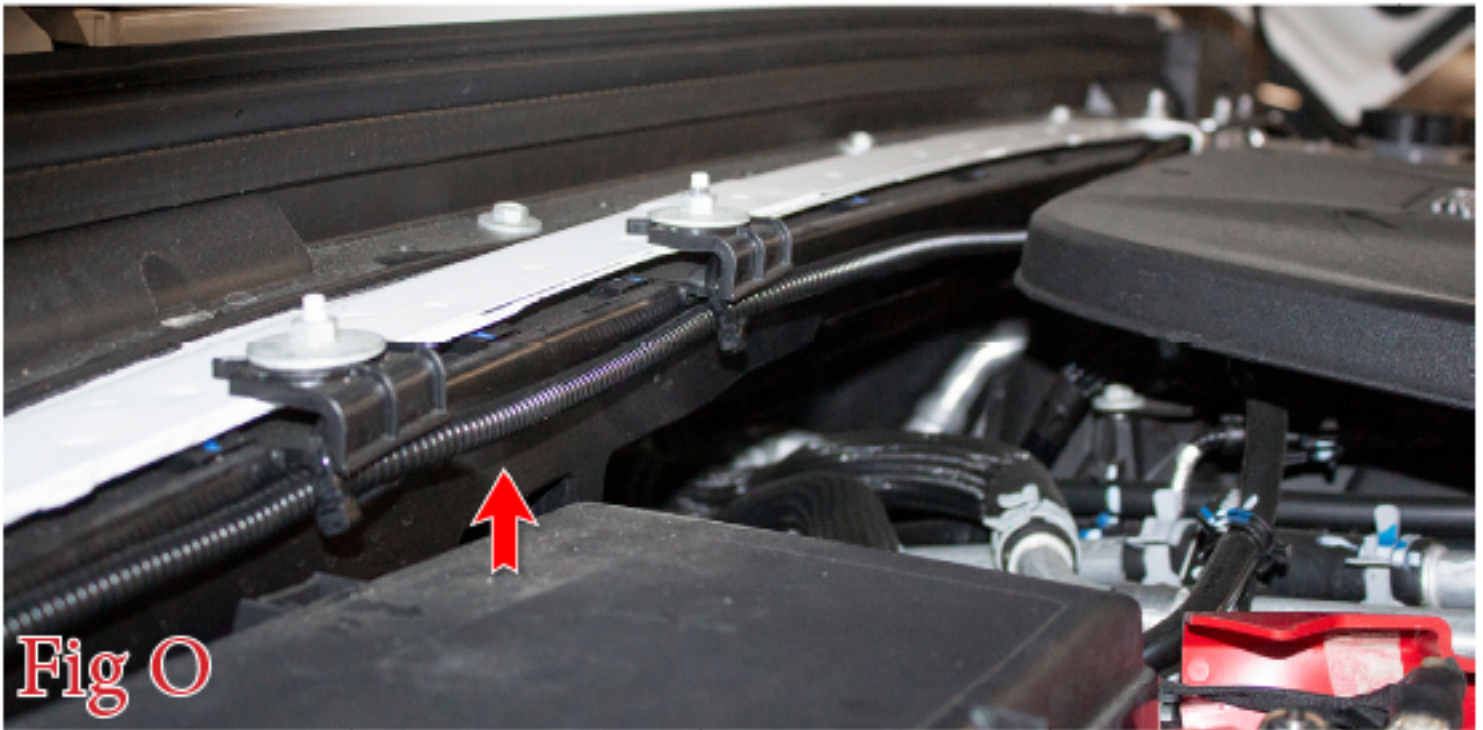
Fig M

17. Find the secondary harness. Connect the red eyelet to the positive terminal of the battery. (Fig N)

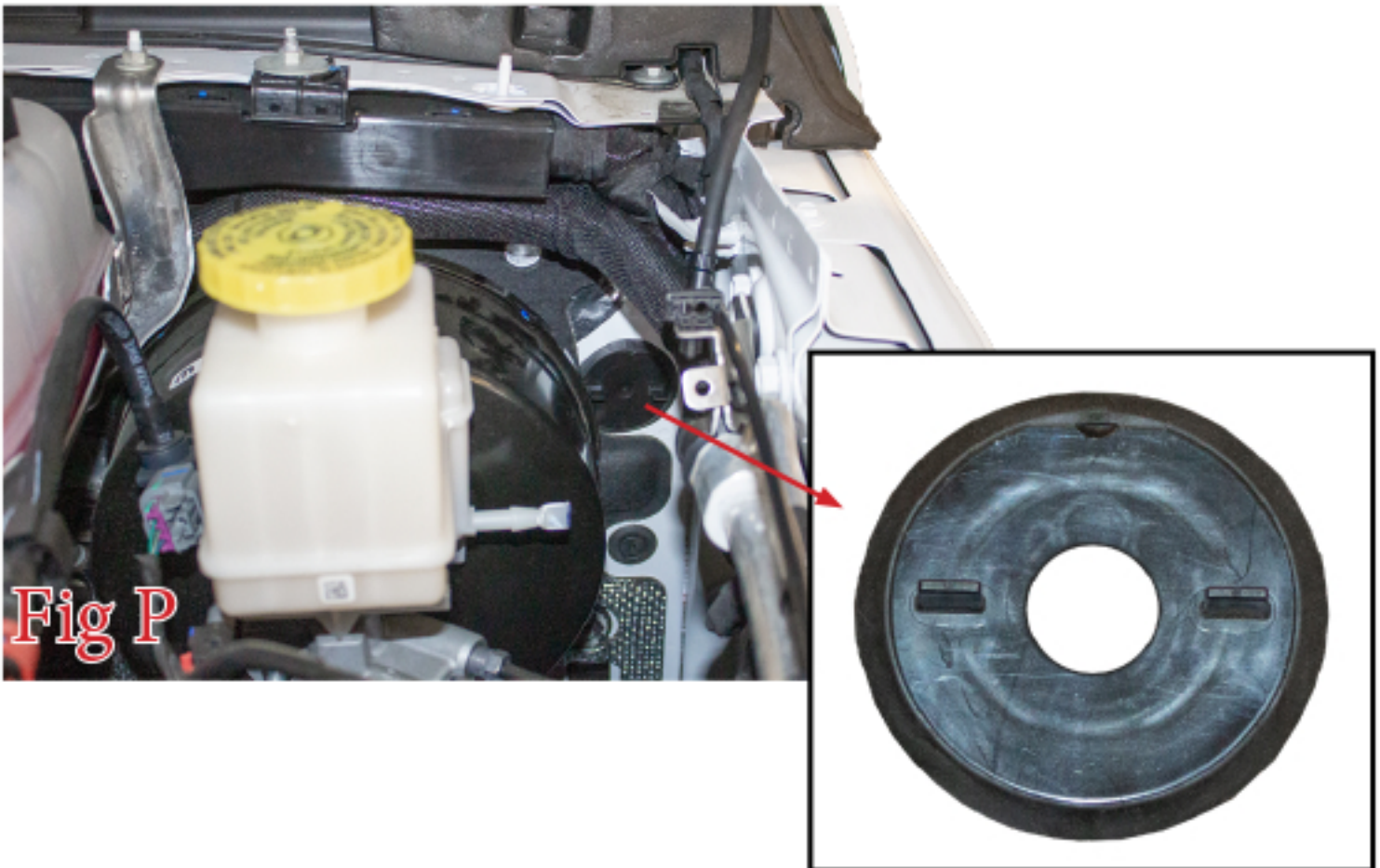


Fig N

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



19. Remove this plug from the firewall. Then, drill a hole in it big enough to pass the wire harness through and reinstall it. (Fig P)



20. Pass the secondary harness through the hole you drilled in Step 19 and into the cab of the vehicle. (Fig Q)



Fig Q

21. 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 R)



Fig R

22. Connect the black wire with the eyelet on the end (from the secondary harness) to a suitable ground bolt, such as the one referenced in (Fig S).

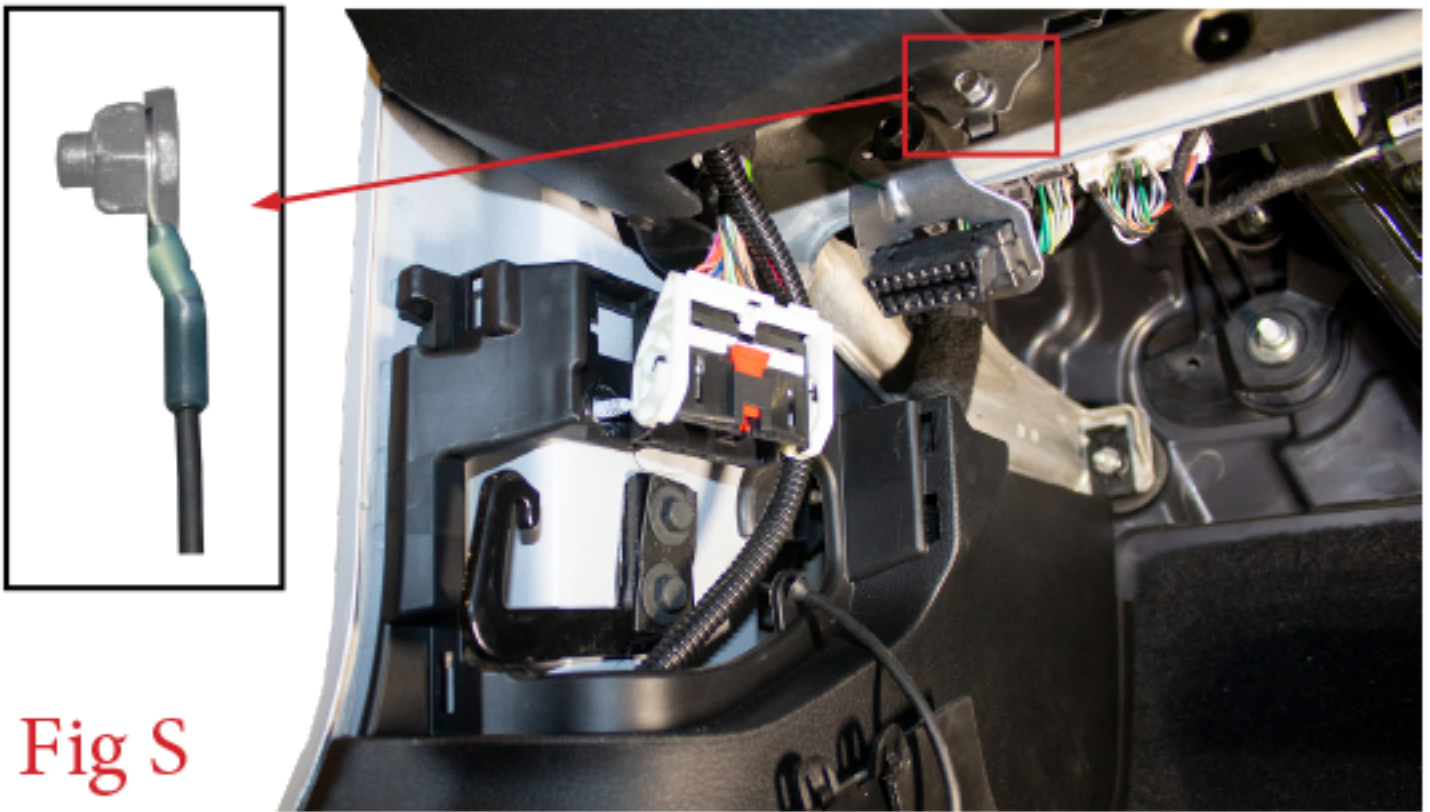


Fig S

23. Connect the wires to the toggle switch as shown in the diagram below (Fig T).

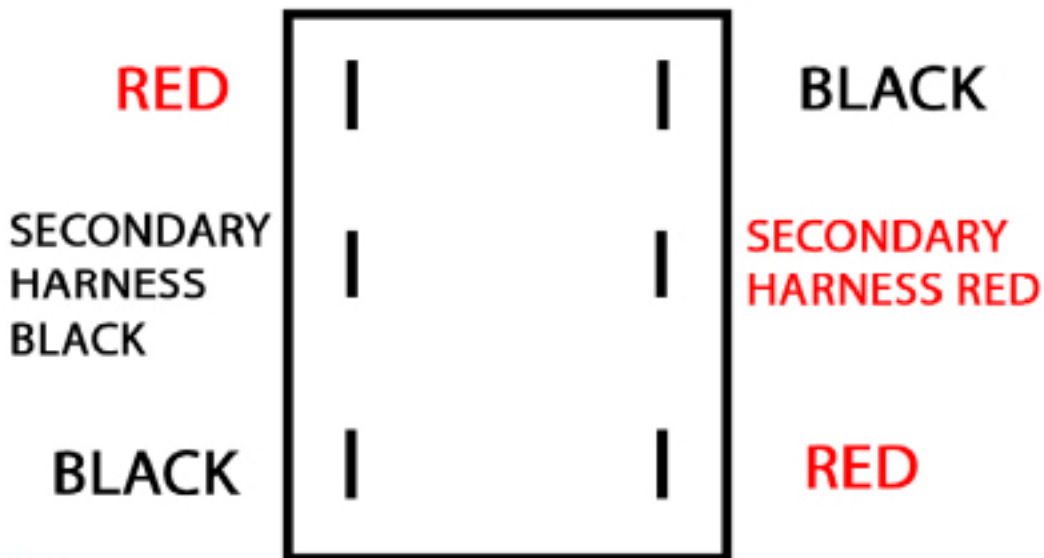
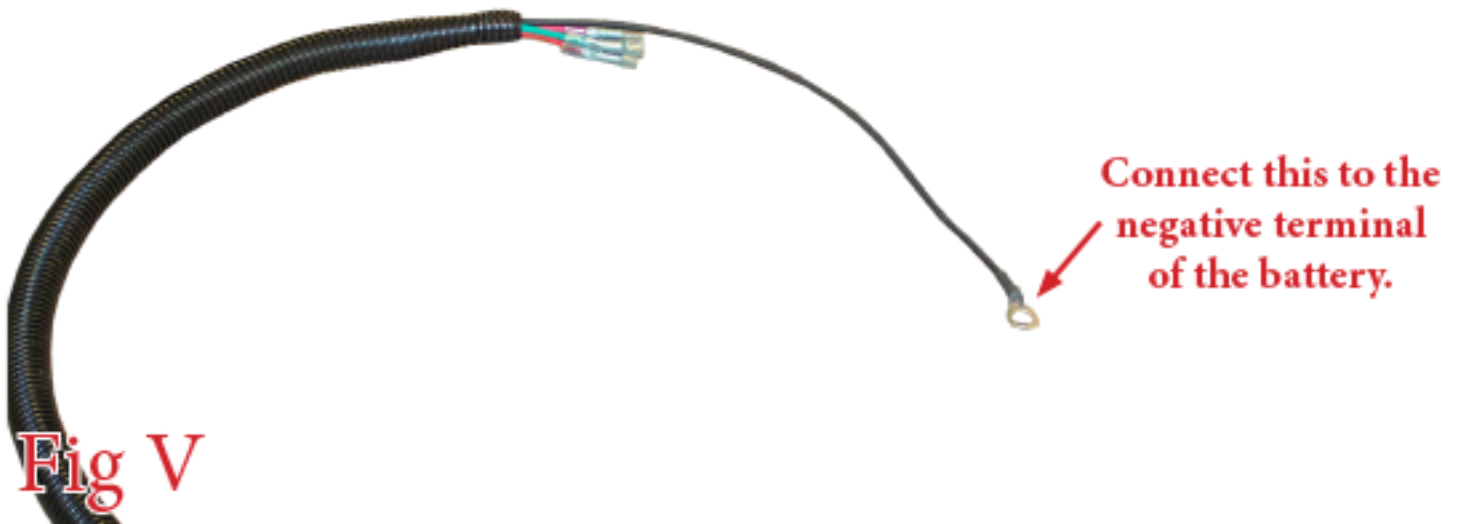


Fig T

24. Go back to the main harness underneath the vehicle. Take the main branch of the harness (that wasn't sent through the trans tunnel) and send it up into the engine bay. (Fig U)



25. Connect the black wire with the eyelet on the end to the negative terminal of your battery. (Fig V)



26. 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 W)

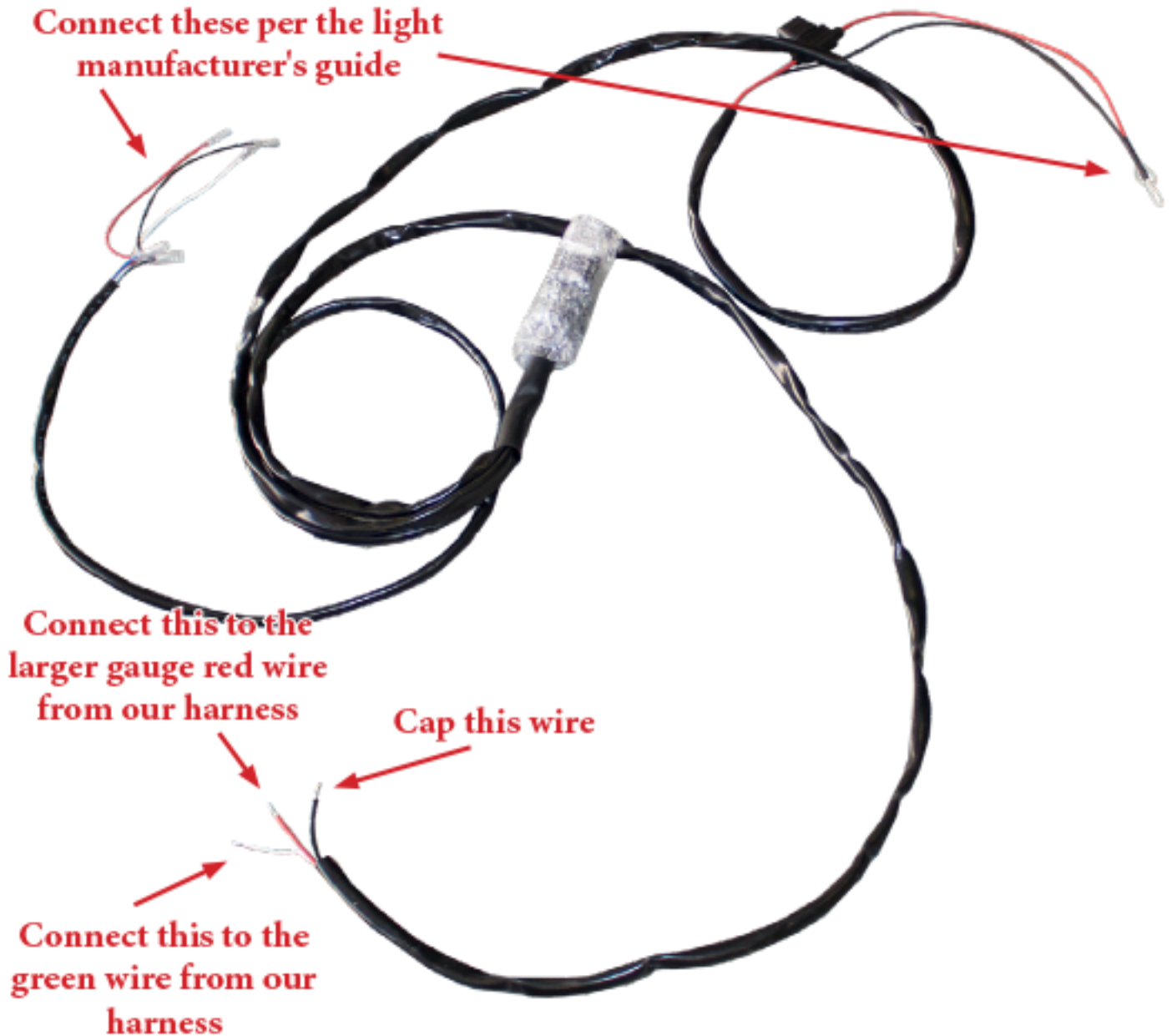


Fig W

27. 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****

28. Reinstall the driver side kick panels.

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

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

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

