2753 Michigan Road · Madison, Indiana 47250
855-743-3427

INSTALLATION INSTRUCTIONS

PFWS-CF-U10: Power Front Windshield

- Please look through and read these instructions BEFORE starting so you understand what processes you'll be doing, and possible extra tools you may need.
- Do Not discard product packaging until installation is complete and functioning properly.



Windshield Assembly



Actuators



Channel Tube Clamps



Hinge Assemblies

Bulb Seal



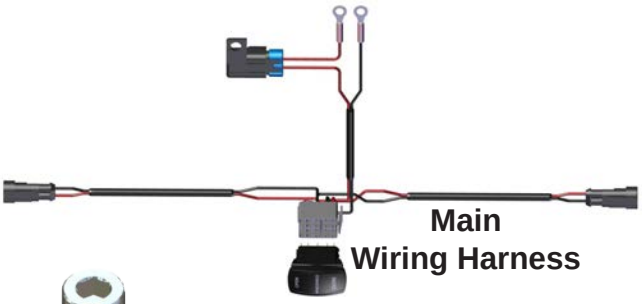
Adhesive Backed Foam Seal



10" Cable Ties (10pcs)

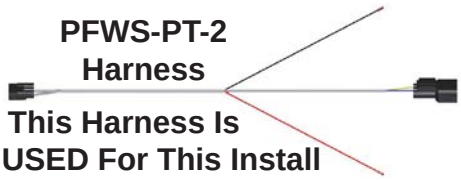


Actuator Mounts



Main Wiring Harness

PFWS-PT-2 Harness



This Harness Is NOT USED For This Install



M10x50 Socket Head (4pcs)



Hinge Misalignment Bushings (4pcs)



M5 Nylock Nut (4pcs)



Flanged Sleeve Bearing (8pcs)



M6x30 Socket Shoulder (4pcs)



M8x30 Shoulder Bolt (2pcs)



M8 Nylock Nut (2pcs)



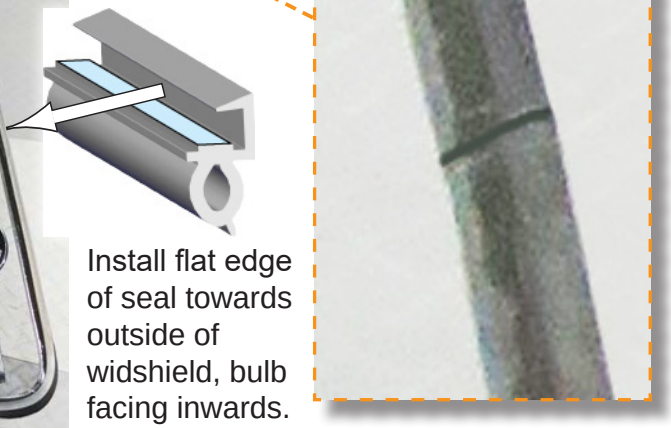
M8x20 Button Flanged (4pcs)

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WINDSHIELD PRE-INSTALLATION PREP



Before Installing the Windshield, you will need to install the Bulb Seal all around the outer edge of the windshield, Starting at the center of the bottom edge, go all the way around and cut to fit seam.



Install flat edge of seal towards outside of widshield, bulb facing inwards.

TIP!: *For much easier install, **DO NOT** remove the adhesive film first. First install the entire bulb to fit, then at the seam, peel back the edge of the film with bulb in place and pull it on out all the way around. Bulb will stay in place and then you can squeeze the edges to make it stick.*

1.The first thing you need to do is **Remove** the **Hood** for access to route the Harness Cables. See **Fig.1a**. Then you will need to be able to raise the front edge of the roof in order to install the windshield hinges. So to do that you need to **Remove** the **Screws** that hold it down from inside the cab. There are **5 Screws** going across to remove. See **Fig.1b**.



Fig.1a

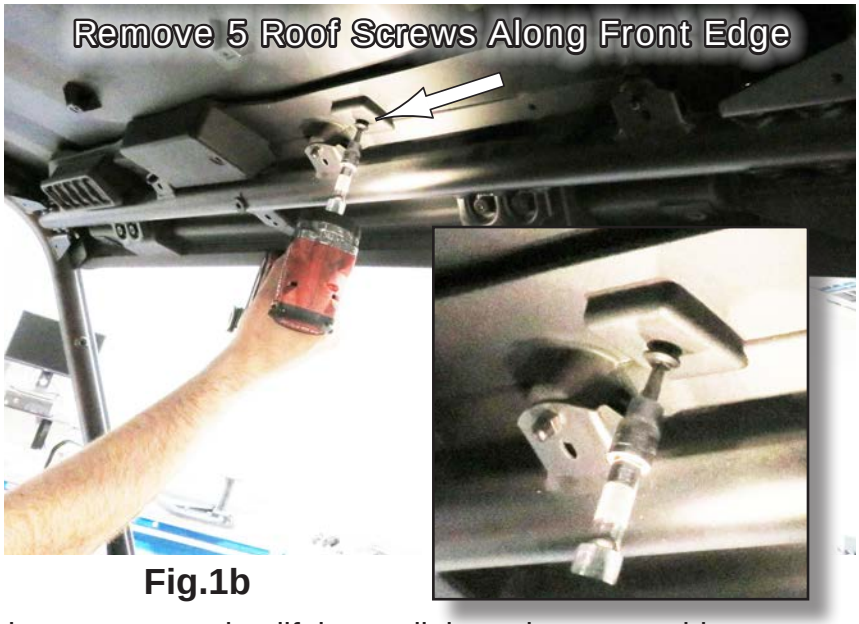


Fig.1b

2. After you have the roof screws removed, now you need to lift it up a little and put something under the roof to hold it up for you while you work. Then, you will need to **Install** the **Adhesive Backed Foam Seal** along the front lip of the windshield frame, both shown in **Fig.2**.

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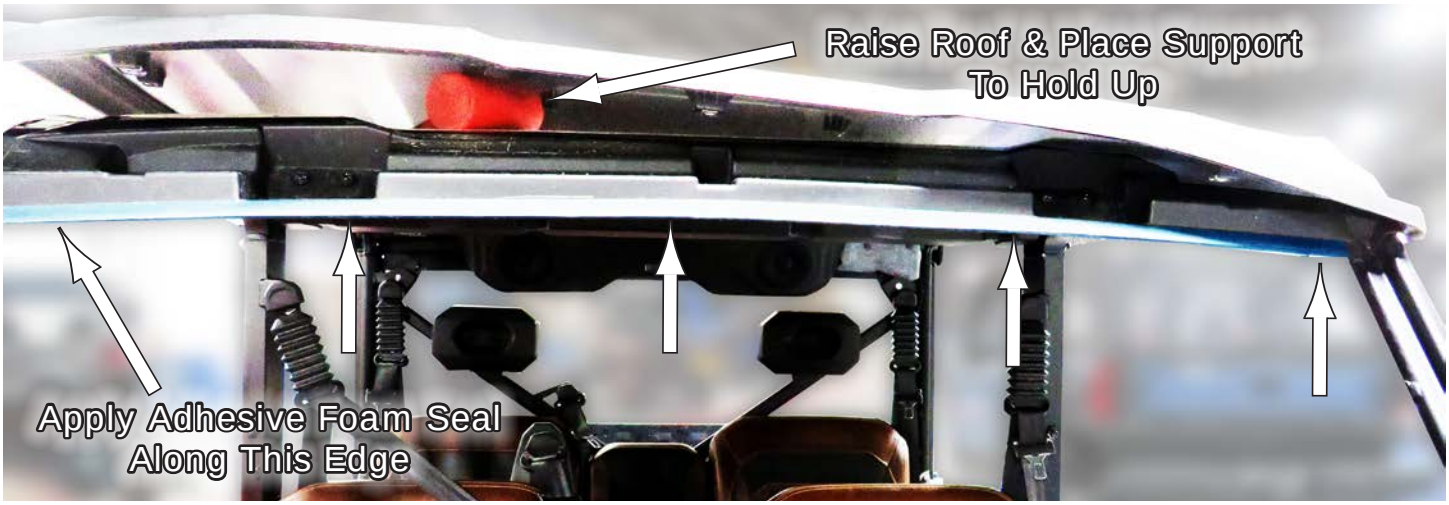


Fig.2

3.Start at one end feeding it across while applying pressure to the foam making sure it sticks to the frame. See **Fig.3a**.



Fig.3a

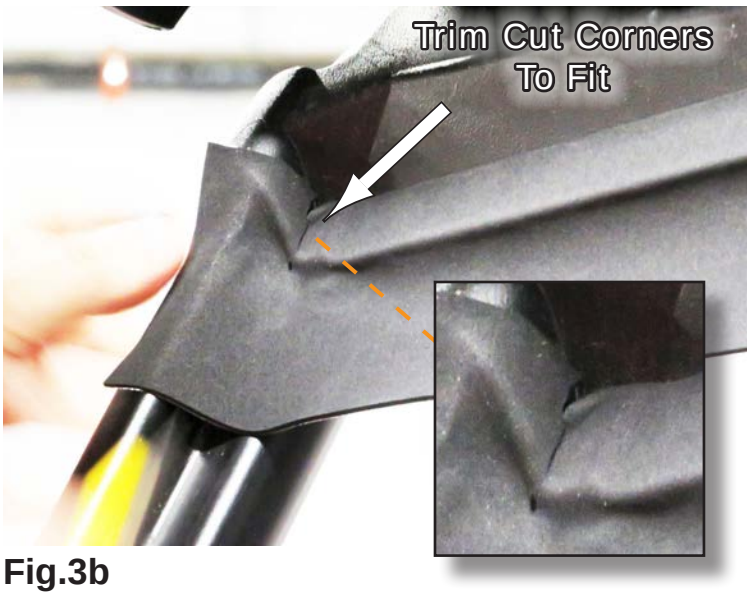


Fig.3b

4.Once applied, then trim cut the corners and excess hanging below the frame edge as shown in **Fig.4**.



Fig.4a

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5.After trimming the Foam seal and applying under the windshield hinges, you can now start to **Install** the **Windshield Hinges** to the vehicle. To do that, remove the Two (2) Screws, on each side in the recessed areas, shown in **Fig.5a-b**. Then find the **Hinge Assemblies** that mount on the roof, and install them using the factory screws you just removed, as shown in **Fig.5c**.Repeat this same procedure both of the hinges. Leave them slightly loose to be able to adjust in the steps ahead.



Fig.5a



Fig.5b

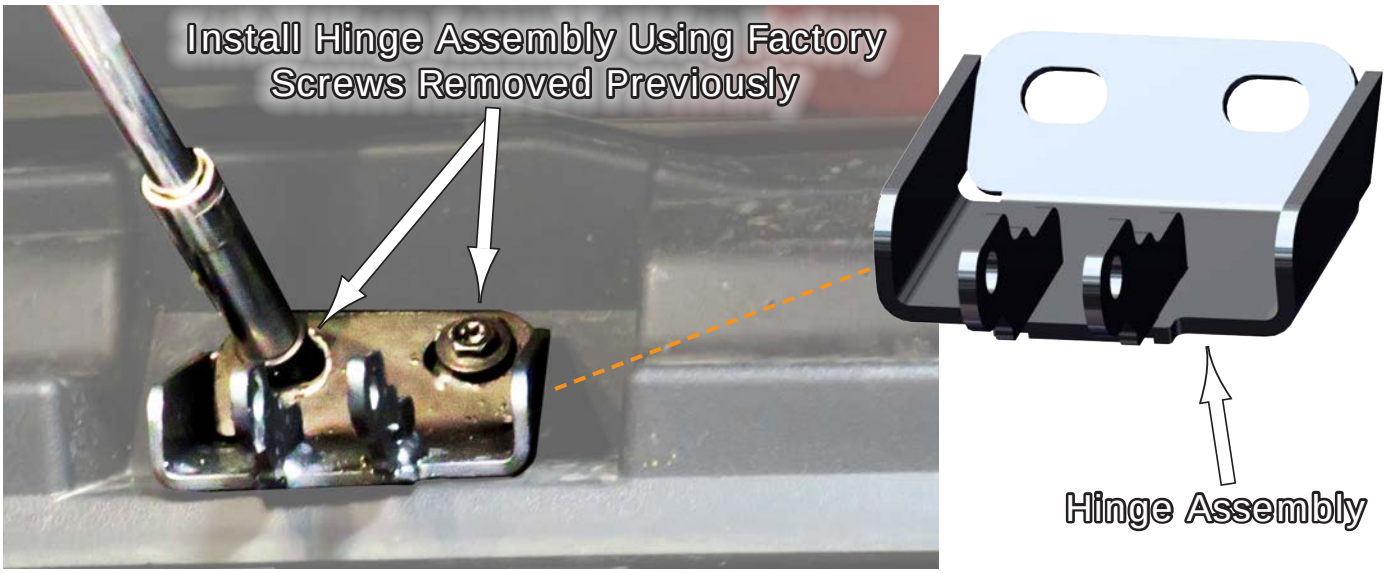


Fig.5c

6.Next you can take the **WIndshield** and set it onto the vehicle, as shown in **Fig.6a**, ready to **Install** the **Hinge Halves** together in the next steps.



Fig.6a

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7.When setting the Windshield onto the vehicle, go ahead and align the Hinge Halves Together, but make sure the **Misalignment Bushings** are installed on each side of the windshield hinge half as shown in **Fig.7a**. Then slide the Windshield Hinge into the Roof Hinge and Install using the **M6x30 Shoulder Bolt & M5 Nylock Nut** as shown in **Fig.7b**. Repeat for the opposite hinge location.

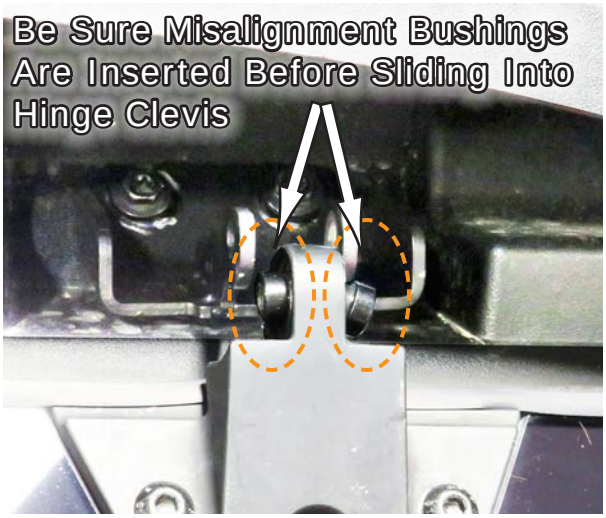




Fig.7a

8.Now you're ready to **Install** the **Actuator Mounts** to the **Channel Tube Clamps** provided in your kit. Assemble them using the **M8x20 Flanged Button Screws** also provided in your kit. See **Fig. 8a-b**.

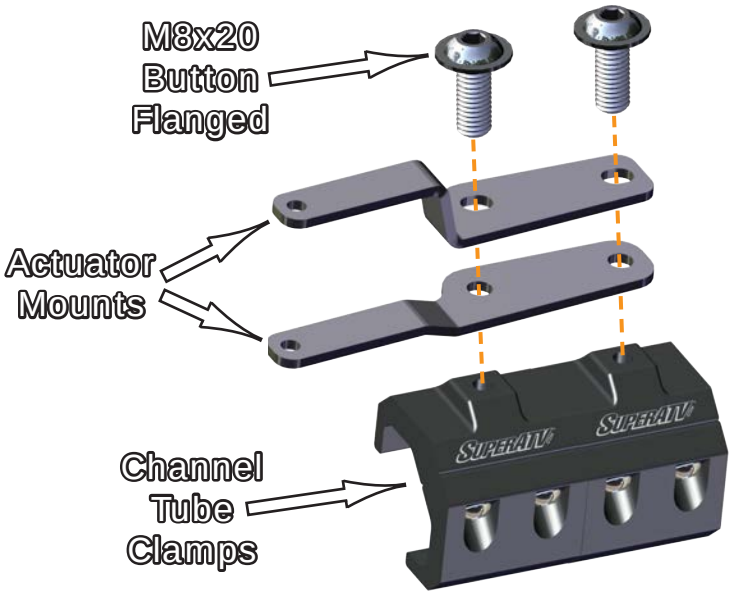


Fig.8a



Fig.8b

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9.After you assemble the Actuator Brackets onto the Clamps, then you will install that clamp assembly to the Actuator. Do this by sliding the assembly over the Actuator end and install using the **M6x30 Shoulder Bolts, Flanged Sleeve Bearings** and **M5 Nylock Nuts** provided in your kit. See **Fig.9a-d**. Repeat the same for the other side Cylinder.



Fig.9a



Fig.9b

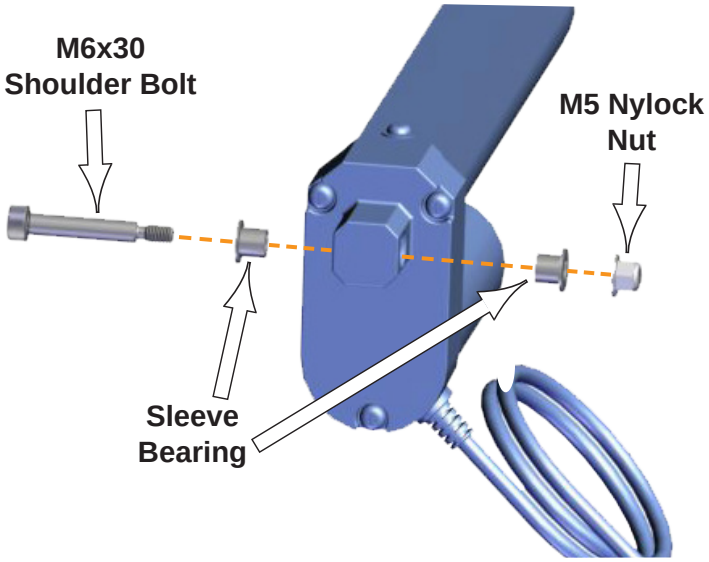


Fig.9c



Fig.9c

10.Once you have the Actuator Mount Brackets installed onto the Channel Tube Clamps, you can now install that assembly onto the Channel Tube on the vehicle. **Fig.10a** shows the assembly ready to install onto the vehicle. **Fig.10b** shows placing the assembly onto the Tube Channel in that basic location. Then lightly snug the screws to hold it in place but not too tight as you will need to slide and adjust the location once the Windshield is connected to it. Then once the windshield is adjusted to close properly, then you will tighten them down in place in the following steps. Repeat the same procedure for the opposite side.

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Fig.10a



Fig.10b

11.Now you can Install the Lower Cylinder to the vehicle. **Fig.11a** shows where you will be connecting the lower cylinder bracket to the windshield bracket. **Fig.11b-c shows how to attach** the **Cylinders** to the **Mounting Brackets** using the **M6x30 Shoulder Bolts**, **Sleeve Bearings** and **M5 Nylock Nuts.** Then tighten. Repeat for both sides.



Fig.11a

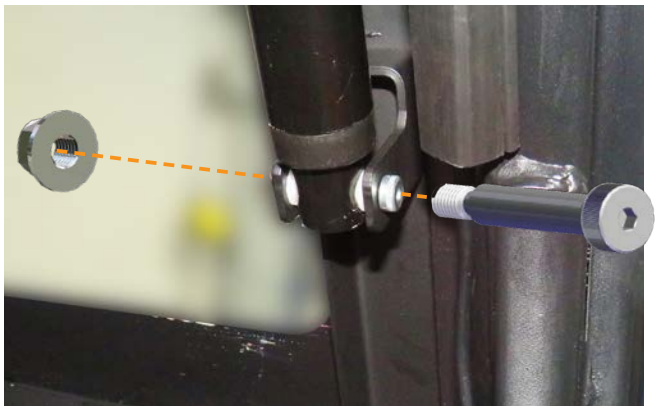


Fig.11b

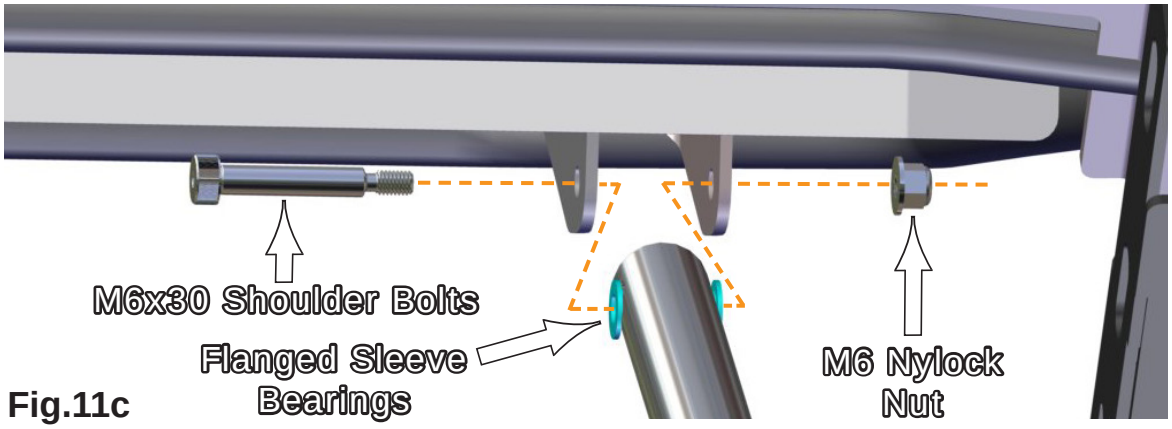


Fig.11c

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12.After the cylinders are attached, you can now start to run the Wiring Harness. But first you need to cut and **Apply** two pieces of **Bulb Seal** to the vertical framing to run the harness cables through and be out of the way. **Fig.12a** shows the seal applied when it's done (bluish tint) and how they hold the cables. You will route the cables later in the steps to come. **Fig.12b** shows the two (2) pcs you need to apply and Fig.**12c-d** show the locations you will need to apply them at. Repeat for both sides.



Fig.12a



Fig.12b



Fig.12c

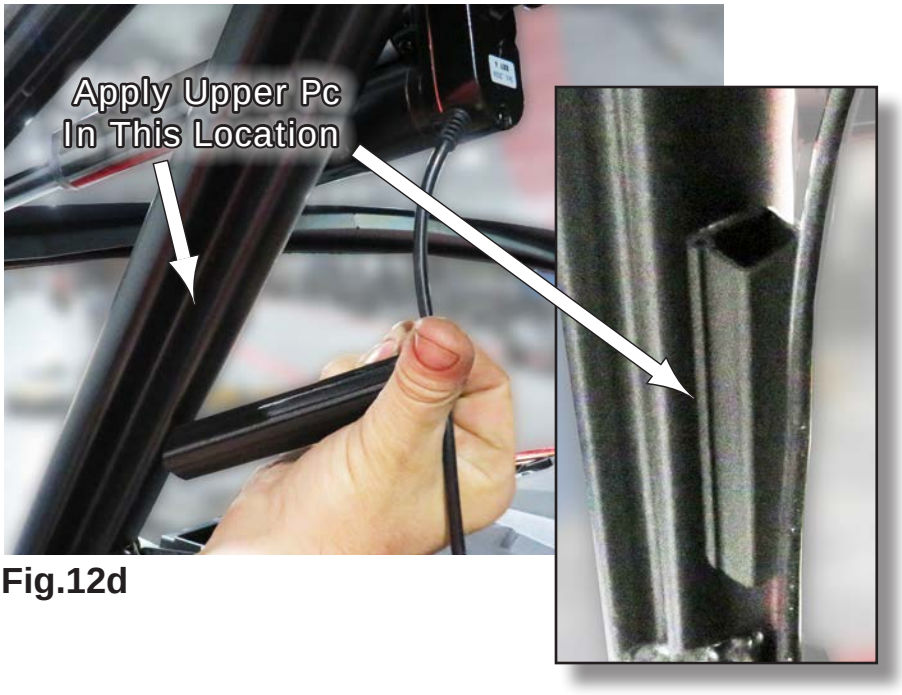


Fig.12d

NOTE: ***Before routing the Harness Cables, there is an additional harness in your kit, the PFWS-PT-2, that is NOT USED for this model installation. Only the Main Harness will be installed here. See Cover.***

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13.Now you can start to **Run** the **Harness Cables**. First, you will basically start on the floor of the cab in the middle under the console, and run all cables from that starting point. The first ones you will run are the Switch Cables for the Dash. But first you need to **Remove** one of the **Switch Slots** as shown in **Fig.13a-b**. Then find the **Switch Connector Ends** for the switch and pull them up through the Switch Slot as shown in **Fig.13c**.



Fig.13a



Fig.13b

14.Then, Find the **Switch** from your kit and connect it to the connector plug you just pulled thru as shown in **Fig.14a-b**. Then connect the **Switch** to the **Harness Connector** and snap switch back into the **Switch Slot** as shown in **Fig.14c-d**.



Fig.13c

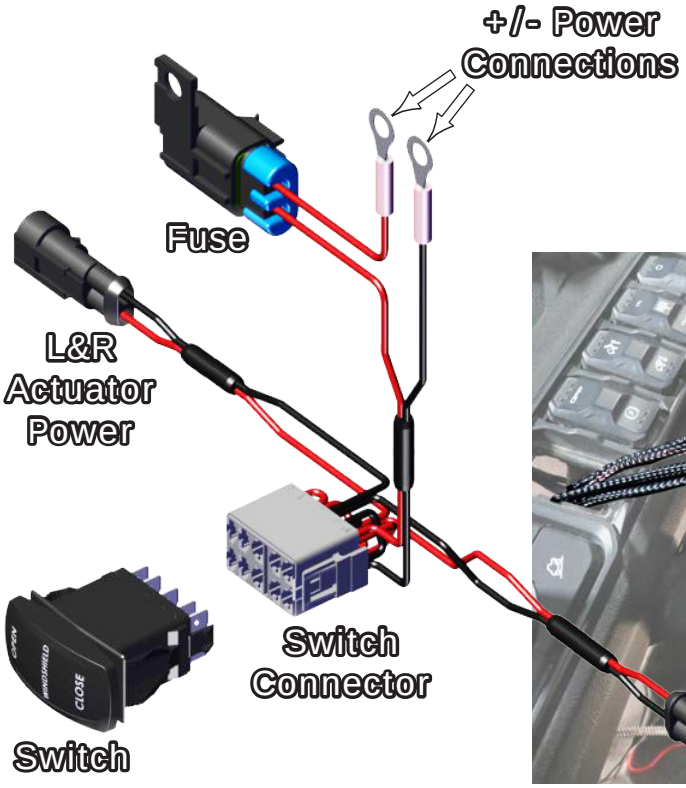


Fig.14a



Fig.14b

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Fig.14c



Fig.14d

15.Now, find the **Fuse** and **Power Terminal Ends** of the Harness, and feed them through the **Large Grommet** in the Firewall as shown in **Fig.15a**. You will route it to the front, to the fuse box under the hood area, and pull it up next to the fuse box as shown in **Fig.15b-e**. Then set aside.

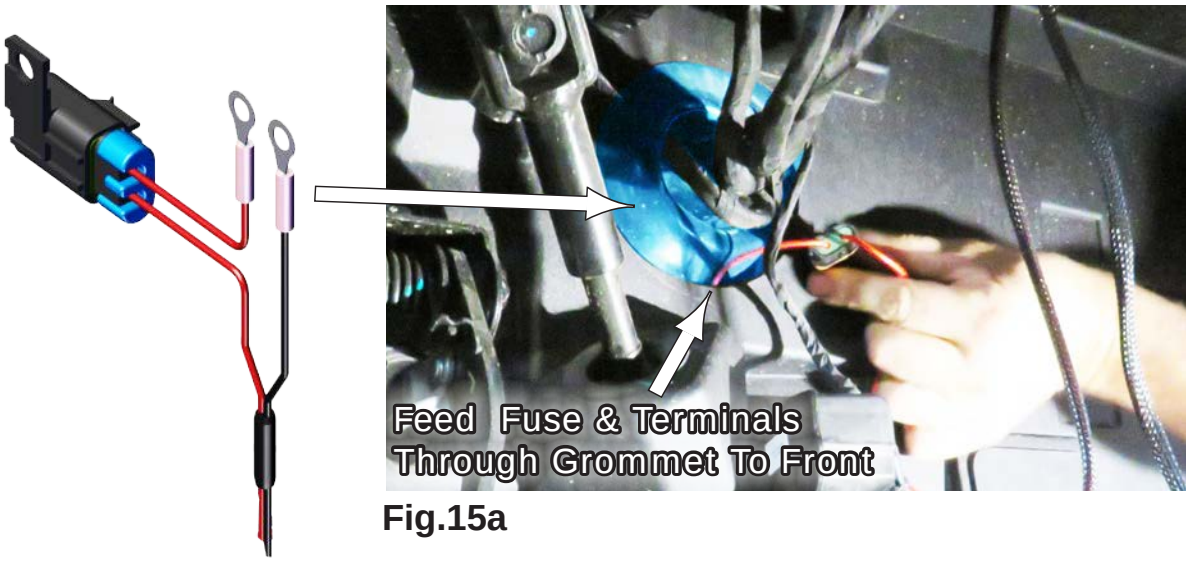


Fig.15a



Fig.15b

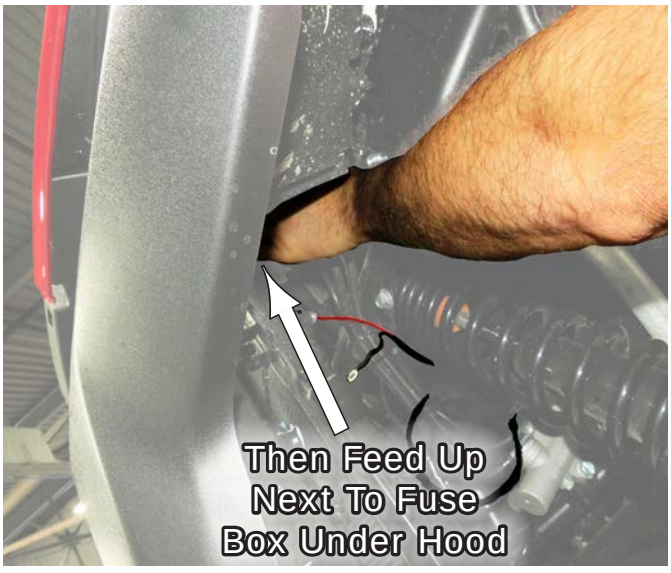


Fig.15c

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Fig.14d



Fig.14d

16.While by the **Fuse Box**, notice the O**verflow Tank** and the connector mounted next to it shown in **Fig.16a**. The one with **Green and White Wires**. You will need to switch some things around next. So the first thing is to **Unplug** the **Green/White Connector**, shown in **Fig.16b**, then **Remove** the **Dummy Plug** from the other connector shown in **Fig.16c**, and plug it into the connector you removed the Green/White one out of shown in **Fig.16d**. Then **Plug** the **Green/White Connector** into the one you removed the dummy plug out of as shown in **Fig.16e** So just switching the two around as shown in **Fig.16f**.

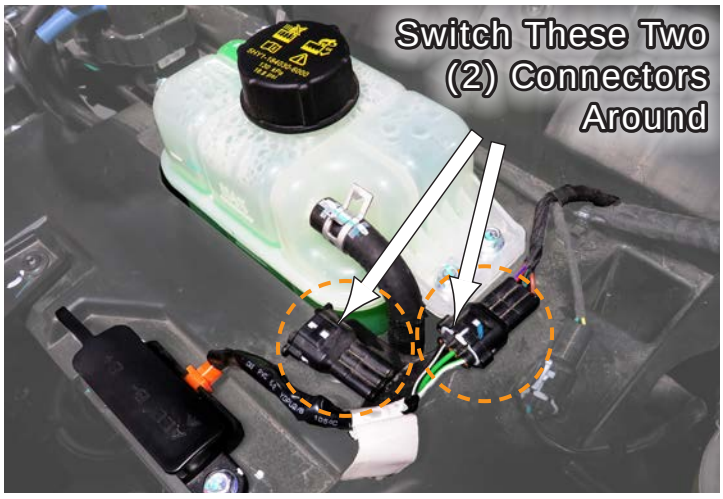


Fig.16a



Fig.16b

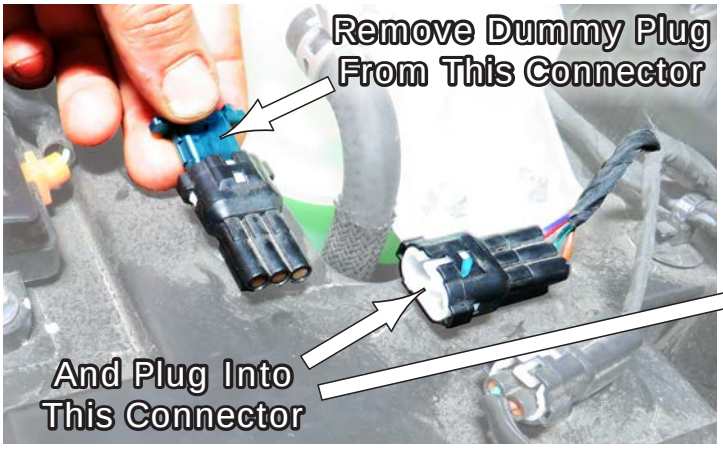


Fig.16c



Fig.16d

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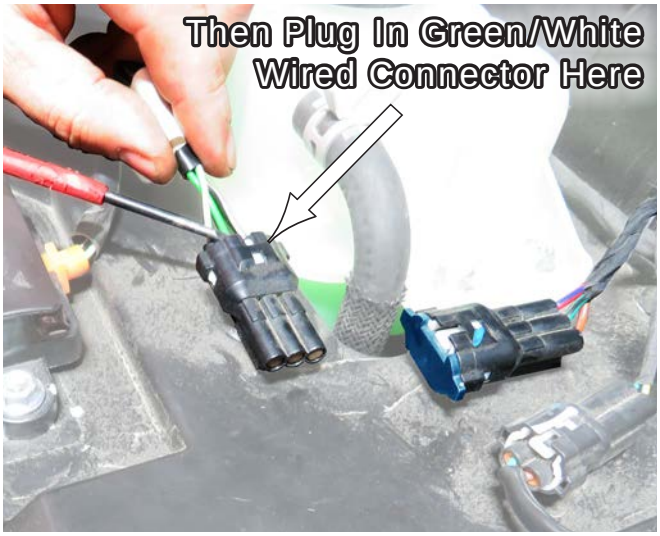


Fig.16e



Fig.16f

17.Now go back and get the **Harness Power Terminal** and **Fuse** cable you pulled up by the fuse box previously, and we will hook up the power next. So open the **Lid** to the **Power Block** as shown in **Fig.17a**. Next, **Remove** the **Nuts** from the **Middle & Right Posts** of the power block and **Install** the **Negative/Black Terminal Ring** onto the **Middle Post**, and the **Positive/Red Terminal Ring** onto the **Right Post** as shown in **Fig.17b**, and tighten secure. Then Zip-Tie the slack up out of the way also shown in **Fig.17b**.

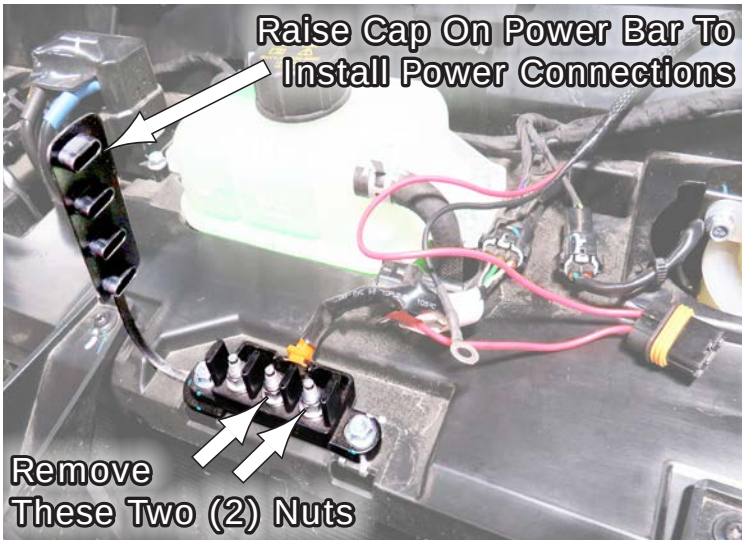


Fig.17a

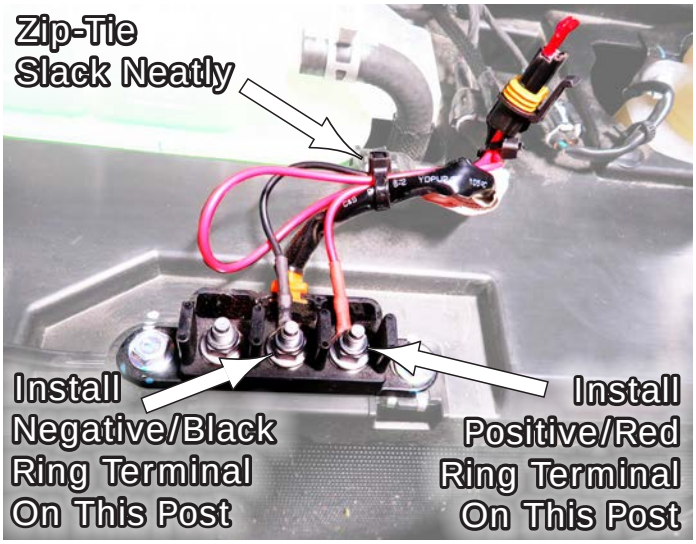


Fig.17b

18.After the Power is hooked up, now you just need to hook up the Actuator Harness to the Actuators next as shown in **Fig.18**. These will feed thru the firewall, then one going to the left Actuator and one going to the right one.



Fig.18

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19.So feed the Two (2) Actuator Harness Connectors thru the large Grommet in the firewall if not already on the other side. Then route one connector over to the driver's side up out of the way working towards the upper corner as shown on **Fig.19a**. You will then feed the Harness Connector up aiming towards the vertical frame post at the farthest end of the Windshield as shown in **Fig.19b**. Then pull it up and out, **Fig.19c.** Run Actuator cable thru channels **Fig.19e**, then connect the Actuator Connector to the Harness Connector as shown in **Fig.19d**, and pull all the slack back down up under the dash area. Then tuck in behind foam neatly as shown in **Fig.19f**, and Zip-Tie all the slack up neatly out of the way.



Fig.19a



Fig.19b



Fig.19c



Fig.19d



Fig.19e



Fig.19f

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