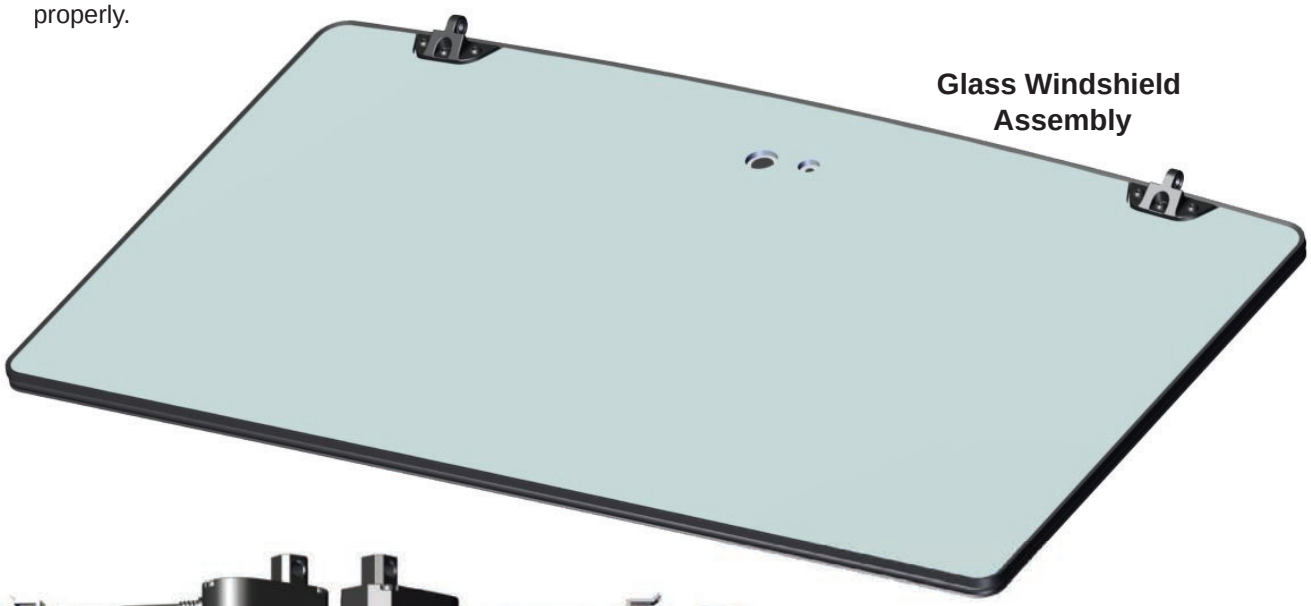
2753 Michigan Road · Madison, Indiana 47250
855-743-3427

INSTALLATION INSTRUCTIONS

FLIP GLASS WINDSHIELD: FGWS-P-RAN1K
And Optional Windshield Wiper Kit

- 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.



Glass Windshield Assembly



Windshield Actuator



Actuator Mount Brackets





Hinges



Channel Tube Clamp

Windshield Switch



30/40 Amp Windshield Relay



Rubber D-Seal



Rubber Flat Seal

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Windshield Wiper Motor Assembly



8mm EPDM Flexible Hose



Wiper Fluid Tank



Wiper Arm



20” Wiper Blade



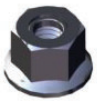
M8x30 Shoulder Screw (2pcs)



M8x25 Button Head (8pcs)



M6x30 Shoulder Screw (4pcs)



M8 Flanged Nylock (4pcs)



M8 Nylock Nut (2pcs)



M5 Flanged Nylock (4pcs)



M8 Flat Washer (4pcs)



M6 Flat Washer (2pcs)



Hinge Misalign Bushing (4pcs)



Flanged Sleeve Bushing (8pcs)



10” Harsh Environment Cable Ties (4pcs)

Wiper Mounting Kit



M18 Washer



Pivot Seal Boot



M8 Wave Washer



M8 Hex Nut



M6 Fender Washer



M6 Hex Nut

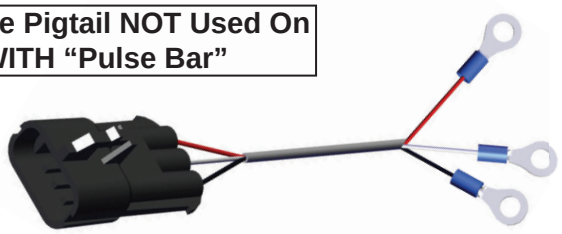


M6 Spray Nozzle

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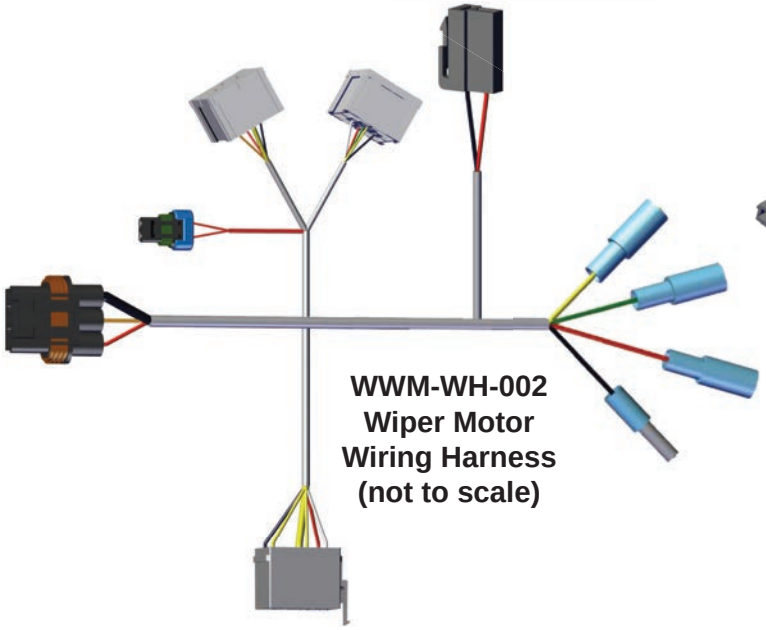
NOTE: Power Wire Pigtail NOT Used On Machines WITH "Pulse Bar"

Power Wire Pigtail (not to scale)





WHA-3 Wiring Harness (not to scale)



WWM-WH-002 Wiper Motor Wiring Harness (not to scale)

Harness Hardware Kit



M6x20 Button FL. Head (2pcs)



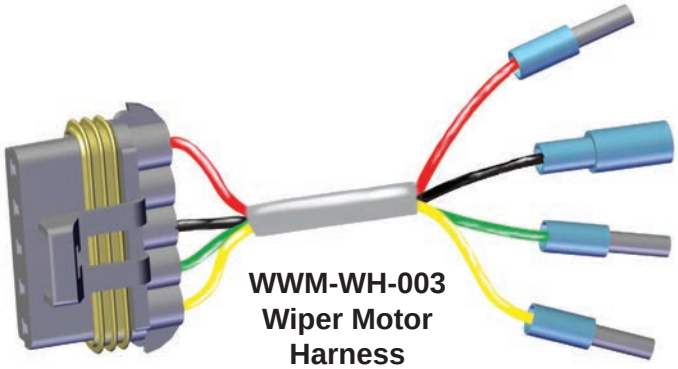
M6 FL. Nylock Nut (2pcs)



#8 FT Self Tap (2pcs)



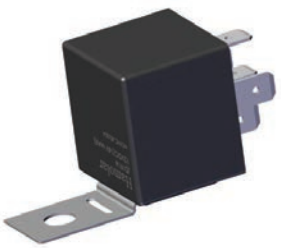
150mm Harsh Environment Cable Tie (6pcs)



WWM-WH-003 Wiper Motor Harness (not to scale)



Wiper Switch



30/40 Amp Wiper Switch Relay (2pcs)

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1.The first thing to do is to locate the main **Windshield Assembly**, see **Fig.1a**. It will come mostly pre-assembled, however you will need to install a few things to get it ready to install onto your vehicle. Find the **Misalignment Bushings**, there are four (4) in your kit, and install one on each side of the **Hinge Bracket** as shown in **Fig.1b**. Next, find the **Hinge** and slide it over the bushings in the hinge bracket, then install the **M8x30 Shoulder Bolt** and **M8 Nylock** nut as shown in **Fig.1b**.



Fig.1a

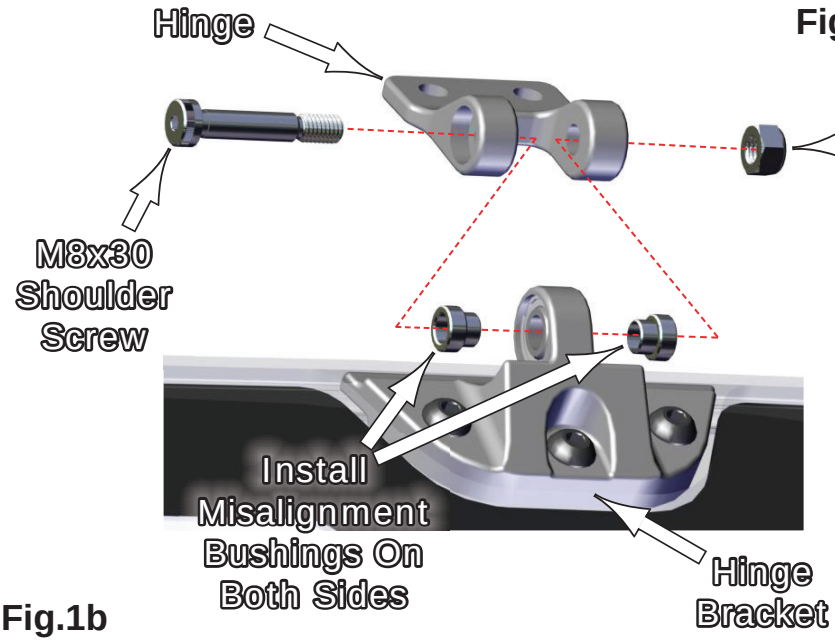


Fig.1b



2.Next you will install the **Wiper Motor Assembly**, but first you need to install a few things on it to get it ready. First find the **8mm EPDM Flexible Rubber Hose** in your kit and feed it behind the **Metal Brace** and slip onto the brass nipple of the fluid pump as shown in **Fig.2a**. **Fig.2b** shows the hose installed for your reference.

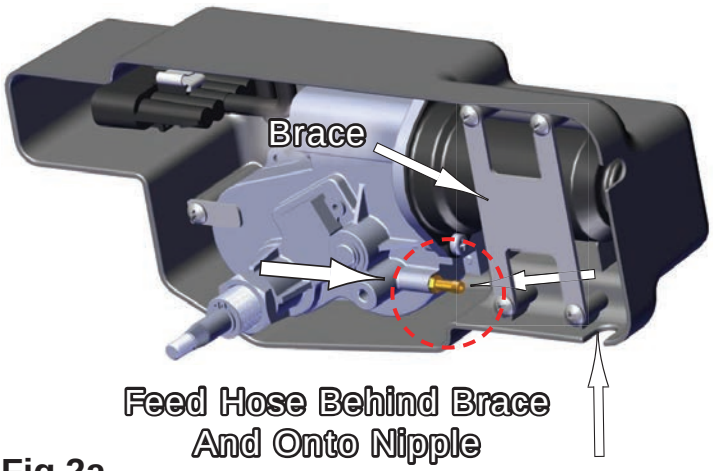


Fig.2a

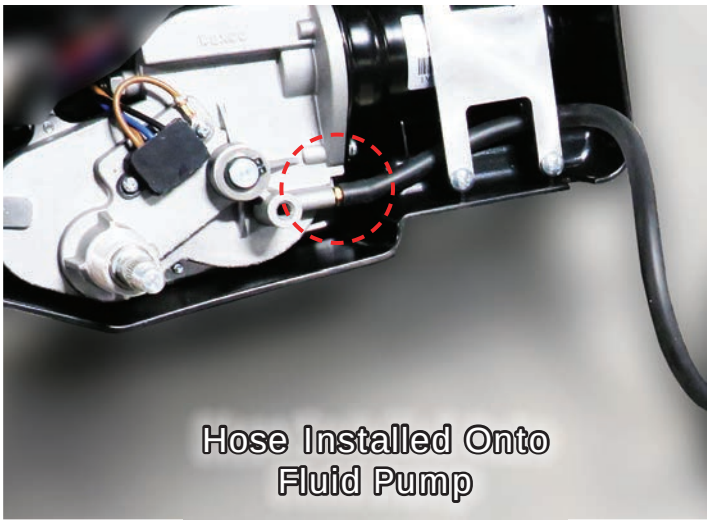


Fig.2b

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3.Now find the cable harness that matches the colored wires in the pics in **Fig.3** and plug the connector end into the connector inside the **Wiper Motor** unit also shown in **Fig.3**. Then run the other end of the harness that has the four (4) separate terminal ends on it back thru and under the Steel Brace and out the slot at the end of the box as shown in **Fig.3**. (*The harness shown has been modified for illustration purposes and is actually much longer than shown*)

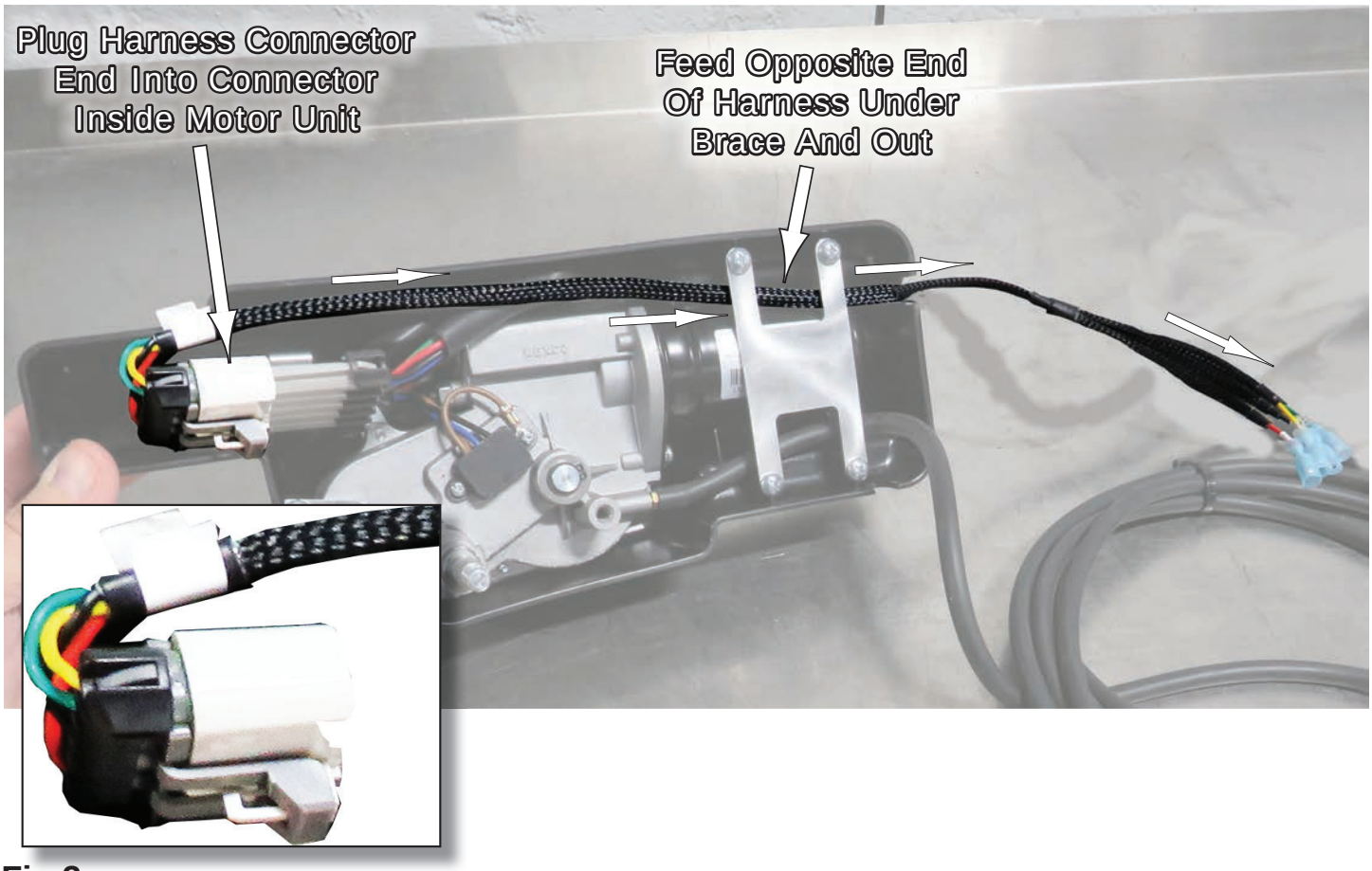


Fig.3



Fig.4

4.Next, you may want to wrap the cable harness and wiper hose together and Zip-Tie them together for now to make it easier to install the **Wiper Motor** into the **Windshield**. The choice is yours. See **Fig.4**.

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5.Now you can install the **Wiper Motor** onto the Windshield. Install the **Wiper Motor** on the inside of the Windshield as shown in **Fig.5a**, using the **M18 Washer** and the **M18 Hex Nut** that came with the motor. Then install the **M6 Spray Nozzle** using the **M6 Fender Washer** and **M6 Hex Nut** and secure both. See **Fig.5a-d**.



Fig.5a



Fig.5b



Fig.5c



Fig.5d

6.Next you need to install the **Pivot Seal Boot** onto the **Wiper Post**. This will simply slip over the Wiper Post and down into the window well to cover the nut and washer. See **Fig.6a-b**.



Fig.6a



Fig.6b

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7.After the boot is on, now install the **Wiper Arm** using the **M8 Hex Nut** and **M8 Wave Washer** also provided in your kit. Snug Secure.

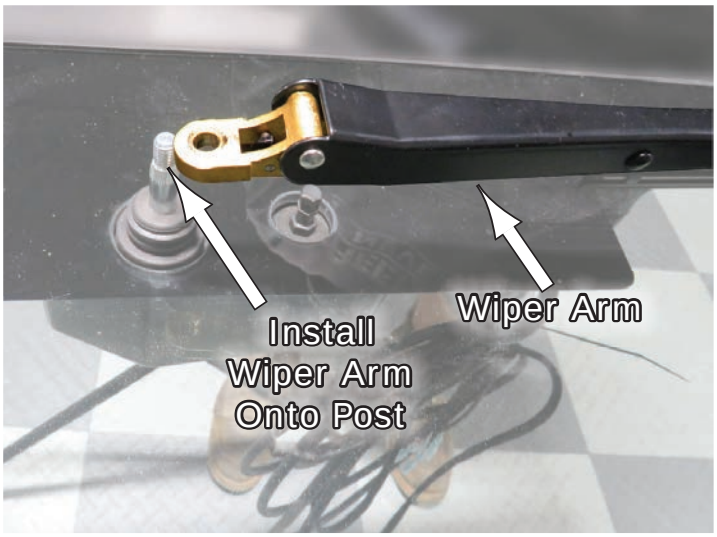


Fig.7a

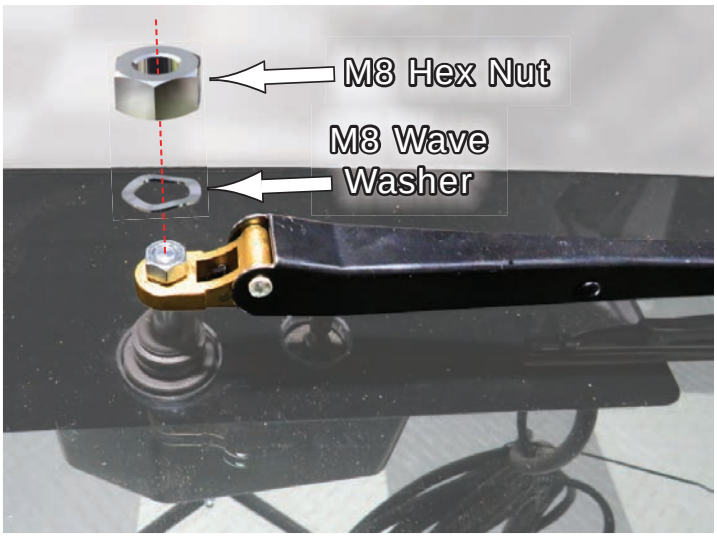


Fig.7b

8.Next, you will need to remove the steering dash panel as shown in **Fig.8a**. then remove the center cup holders shown in **Fig.8b**, and then the hood as shown in **Fig.8c-d**.

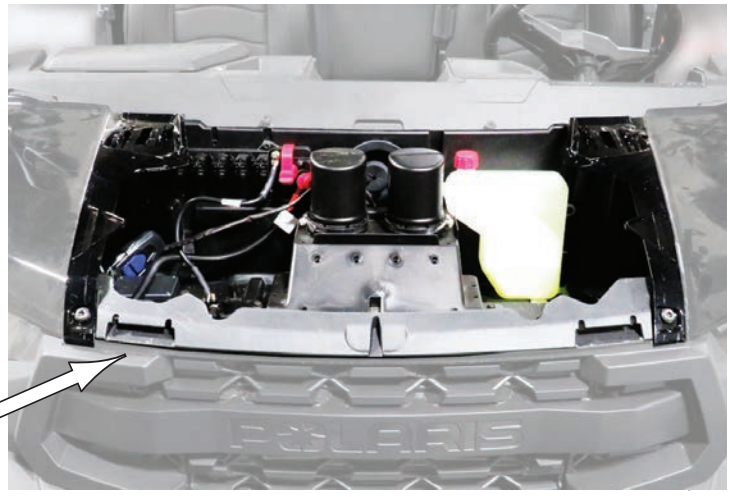


Fig.8a



Fig.8b





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9.Now remove the roof from the vehicle. To do that, remove the four (4) screws from the back side of it first, and any others attached, as shown in **Fig.9a**, and remove roof from vehicle. See **Fig.9b**.



Fig.9a



Fig.9a

10.After the roof is removed, you now need to remove a few things inside the cab area to gain access to route the electrical items. First, Raise the seat and remove the **Battery Compartment Lid** as shown in **Fig.10a-b**.



Fig.10a



Fig.10b

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11.Next, remove the **Cup Holder Console** by releasing the **Push-Pins** all around as shown in **Fig.11a**, and then remove it by lifting up and pulling out. See **Fig.11b**. **Fig.11c** shows interior items removed and ready.

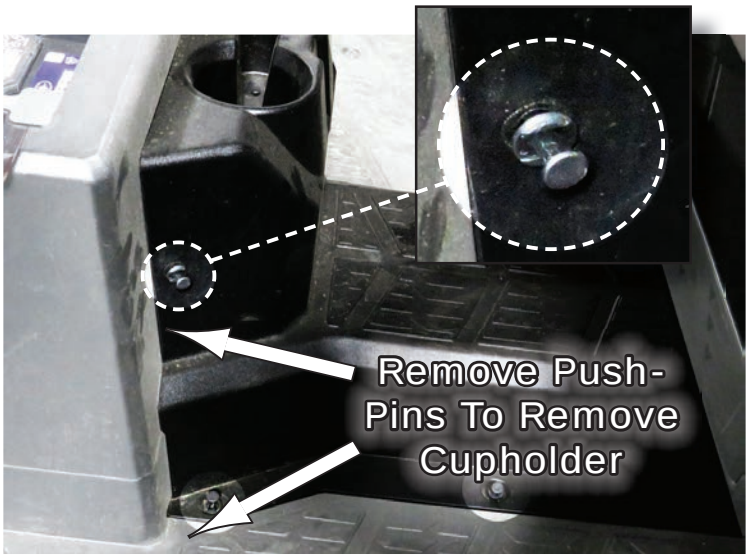


Fig.11a



Fig.11b



Fig.11c

12.Now you need to jump to the front windshield area as you will need to install some **Rubber Flat Seal** in the upper corners of that area. **Fig.12a** shows this area and will be applied to both Left and Right sides. First, cut a piece of the Seal long enough to cover the triangle corner bracket, as shown in **Fig.12b**.

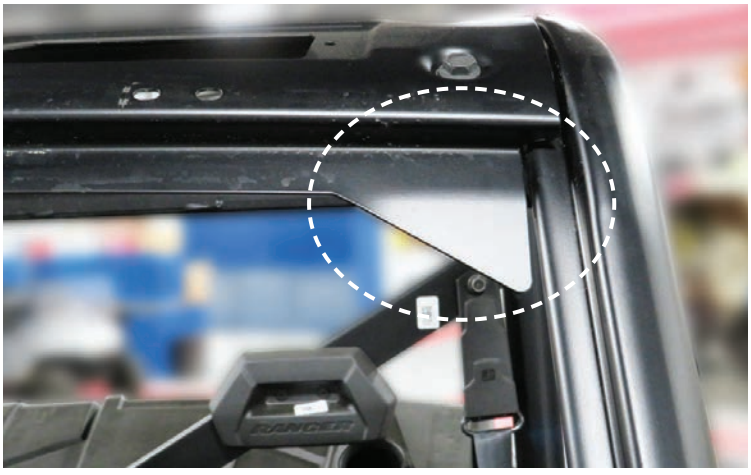


Fig.12a



Fig.12b

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13.Next trace the back side of the Seal piece with a marker as you will cut to fit the corner triangle brackets and apply the Seal over top of them on each side. See **Fig.13a-d**.



Fig.13a

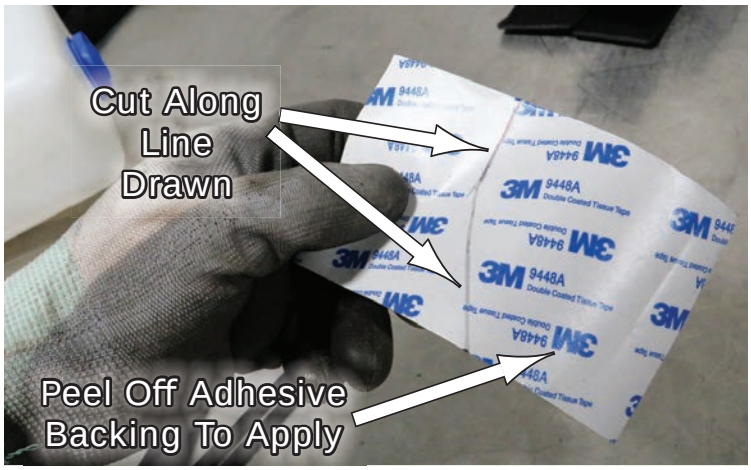


Fig.13b



Fig.13c



Fig.13d

14.The next thing to do is to cut out the Rocker Switch Locations for the Switches. **Fig.14a** shows the two (2) locations we chose for our switches. Cut out the perfed areas outlining the switches with a utility knife or similar as shown in **Fig.14b**. **Fig.14c** shows the slots cut out ready for the switches.

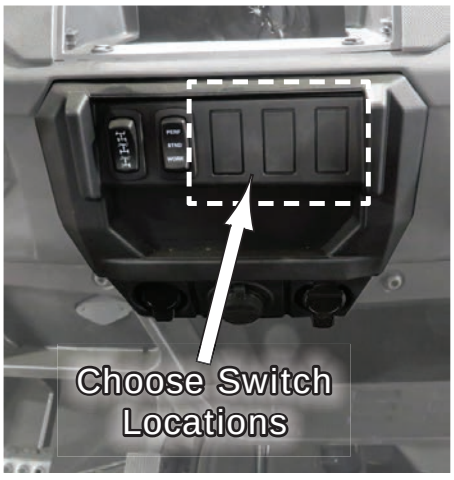


Fig.14a



Fig.14b



Fig.14c

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15.Now you can prep for the **Wiper Fluid Tank** install. First you will need to mark two (2) hole locations in the side of the console panel. The Left location you will drill thru, and the Right location is for a screw for the Fluid Tank Holder. See **Fig.15a**. The Left location is measured at **3-1/2" from the side** and **9-1/2" from the bottom up**. The Right location is **9-1/2" from the side** and **11-1/2" from the bottom up**. See **Fig.15b.** Use a marker or paint pen to mark the center hole locations. Ours are Blue as shown.



Fig.15a

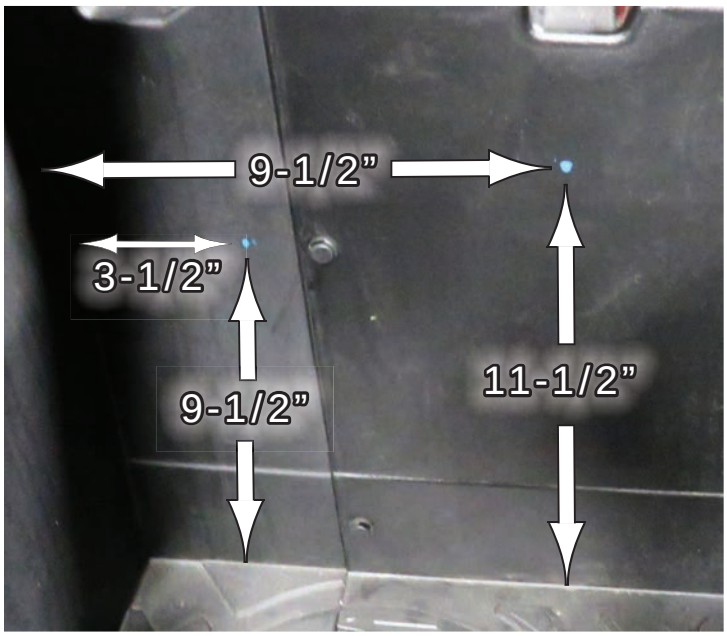


Fig.15b

16.Next, **Drill a 3/4" dia. Hole** thru at the **Left Marked Location** as shown in **Fig.16a**. Then locate the **Fluid Tank Holder** and mount it using the **Self Tap Screws** from that kit in two (2) places. The top holder screw hole goes at the **Right Marked Location** and the other screw below it as shown in **Fig.16b**. Be sure to straighten vertical the holder before installing the second screw so the tank will hang straight. Then hang the tank.

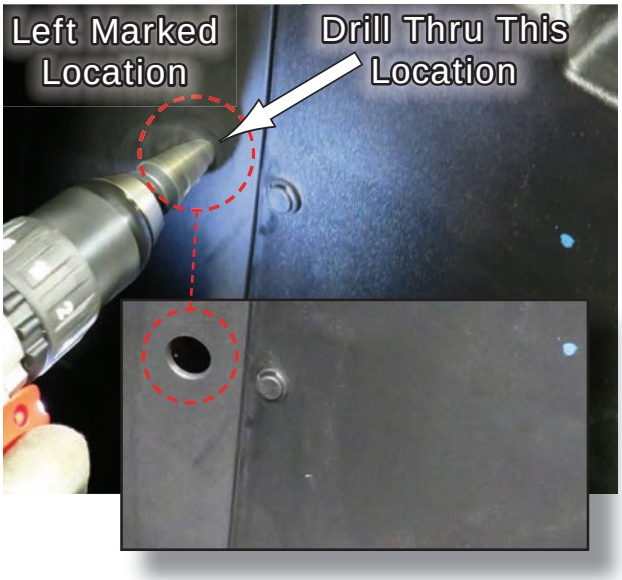


Fig.16a

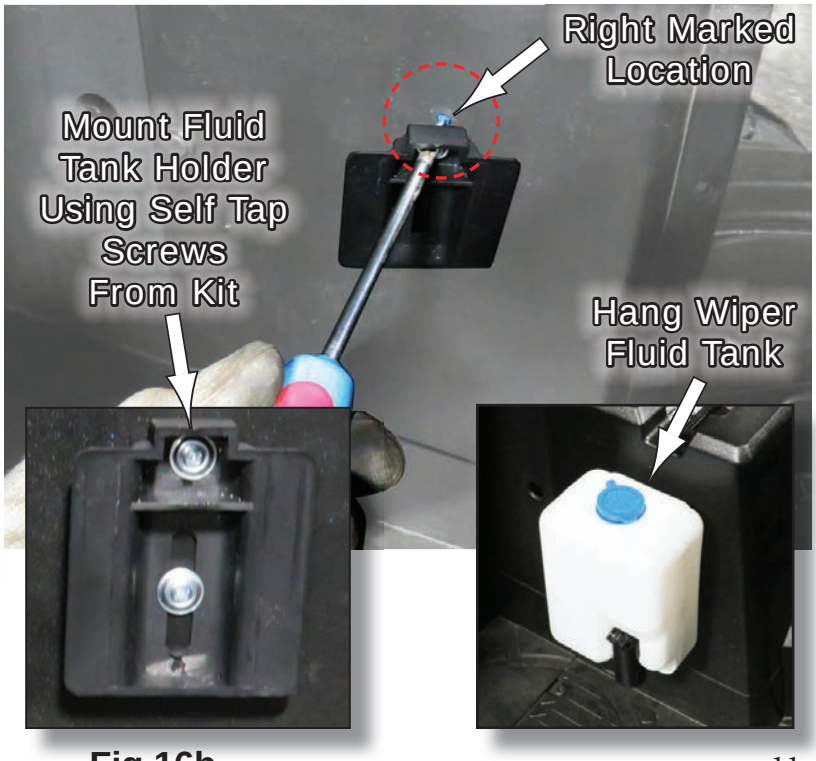


Fig.16b

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17.Now you need to remove the **Grab Handle** from the frame as shown in **Fig.17a-b**.



Fig.17a



Fig.17b

18.Once the handle is removed, the next thing you need to do is start to feed the **Harness**. You will move to the front of the vehicle to the firewall beneath the front windshield. In the center there is a **Large rubber Grommet** where the **Harness** and wiring pass thru the firewall. We found it easier to cut the grommet to make it easier to pass the **Harness and Connectors** thru it instead of trying to squeeze them thru th factory slits in the center of the **Grommet**. The option is yours however.

Fig.18a-b shows the location of the Grommet and how we cut the it, which can also be installed back into it's original position after routing the **Harness**.

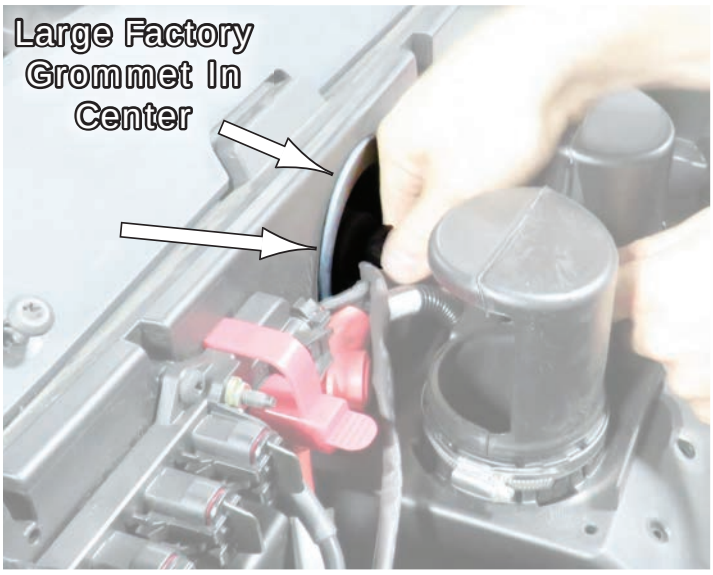


Fig.18a



Fig.18b

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19.Now locate the **WHA-3 Wiring Harness** that has the **Switch Connector** , **Relay Connector** and the two (2) small **Actuator Connectors** for your windshield actuators. Then find the **Windshield Relay** in your kit and plug it into the relay connector as shown in **Fig.19a**.

Next, route the **Switch Connector** and the two (2) **Actuator Connectors** thru the grommet hole into the cabin area as shown in **Fig.19b**. Then from inside the cab, pull those in thru, **Fig.19c**, as you will then route them to each side in the following steps.

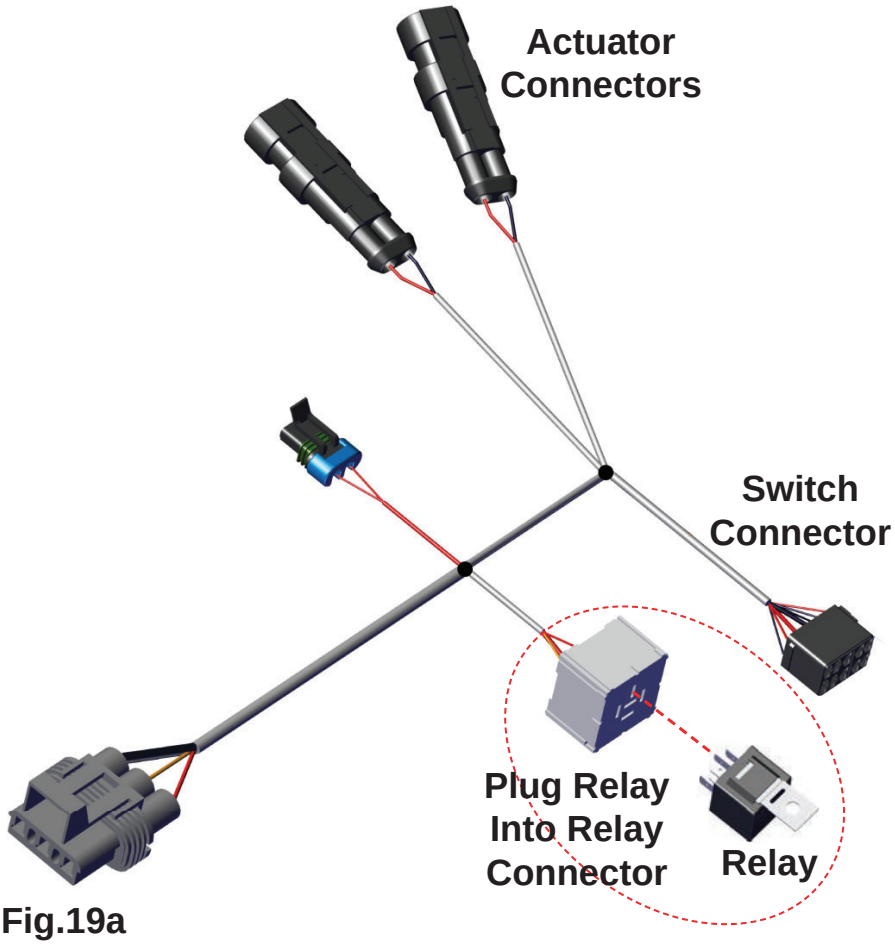


Fig.19a

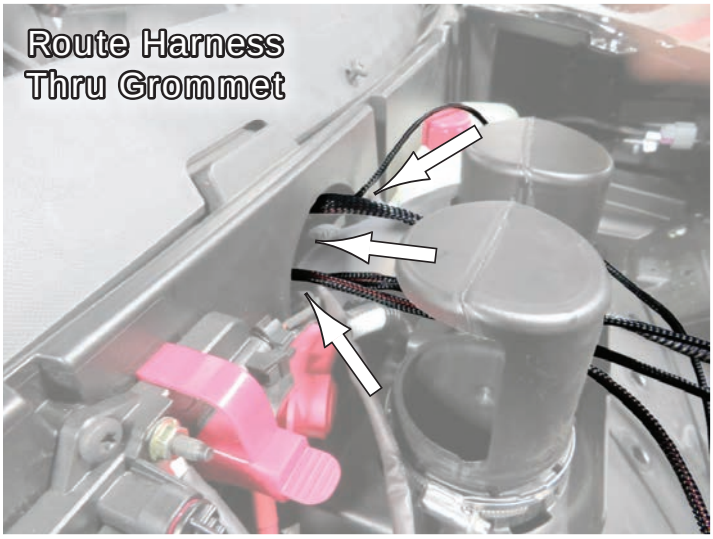


Fig.19b



Fig.19c

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20.Before you run the **Actuator Connectors** you will need to loosen the lower windshield dash panel which will make it easier to route them to each side. Remove the screws holding the bottom edge down so you can gain access under the panel as shown in **Fig.20a**. Then lifting the bottom edge of the panel up, pull the two (2) **Actuator Connectors** back thru towards the front as shown in **Fig.20b**. You will route one to the left and one to the right where you will hook them up to the **Actuators** in the following steps.

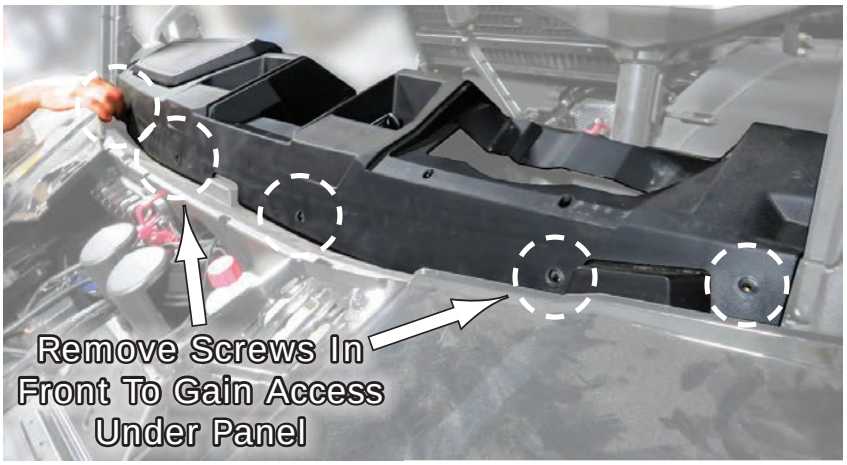


Fig.20a

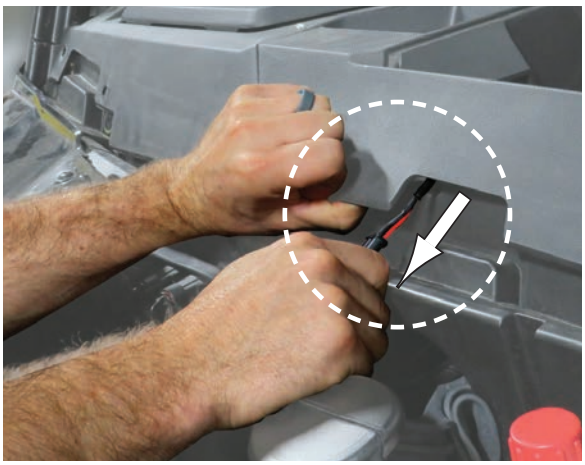


Fig.20b

21.Once you pull the **Actuator Connector** thru, lift the bottom edge of the panel giving space to slide the cable over to the vertical frame post where you will route the connector up and out the space between the panel and the frame and let hang there for now. See **Fig.21a-b**.



Fig.21a



Fig.21b

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22.Next, find the **WWM-WH-002** Harness in your kit, and you will need to feed the terminal and switch connector ends thru the large grommet into the dash area as shown in **Fig.21a**. Then pull the terminal ends out above the steering wheel as shown in **Fig.21b**.



Fig.22a



Fig.22b

23.Now pull the **Switch Connectors** out thru the two (2) slots you cut previously and let hang for now as shown in **Fig.23**.

24.The next thing will be the **Fluid Tank Power Cable** that connects to the pump. This one will be the real long small harness cable, which is part of the **WWM-WH-002 Harness** you previously routed. Route it from under the dash along the center console area to under the **Battery Compartment**. It will go inside the compartment, See **FIg.24,** and over to the hole you drilled out previously as you'll see in the following steps.



Fig.23



Fig.24

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25.After routing the cable into the **Battery Compartment** previously, now feed the connector end out thru the hole in the side, that you drilled thru previously, as shown in **Fig.25a**. Then plug it into the top of the **Tank Pump** as shown in **Fig.25b**.

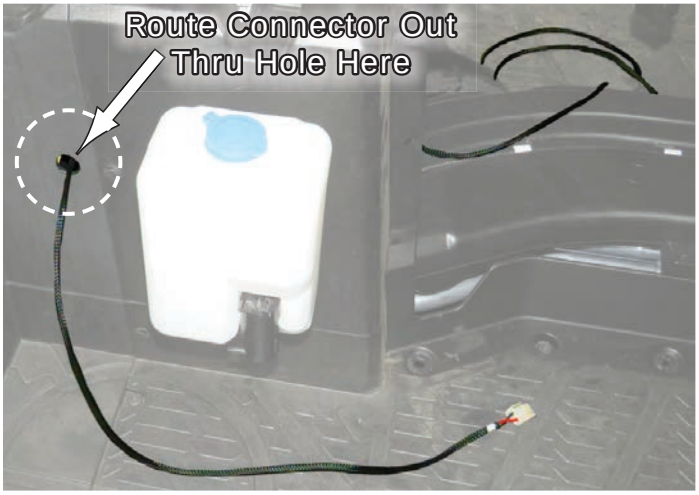


Fig.25a



Fig.25b

26.Now you can install the **Switches** into the **Harness Connectors** as shown in **Fig.26a-b**. Be sure NOT snap them into place until you have tested that the system works as intended, to keep you from having to remove any panels. See **Fig.26a-b**.



Fig.26a



Fig.26 b

27.Now move up front to the power supply block (Pulse Bar) attached to the firewall, and remove two (2) of the dummy plugs from the block and plug in the two (2) Power Connectors from your harnesses. ***NOTE: If you don't have a Pulse Bar (older yrs) see next page for Power Hookup.***

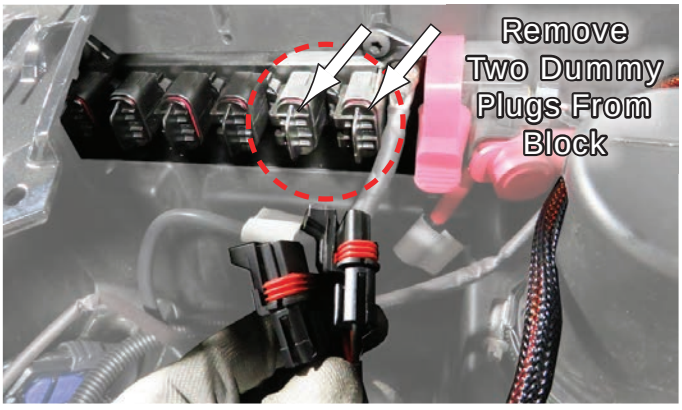


Fig.27a

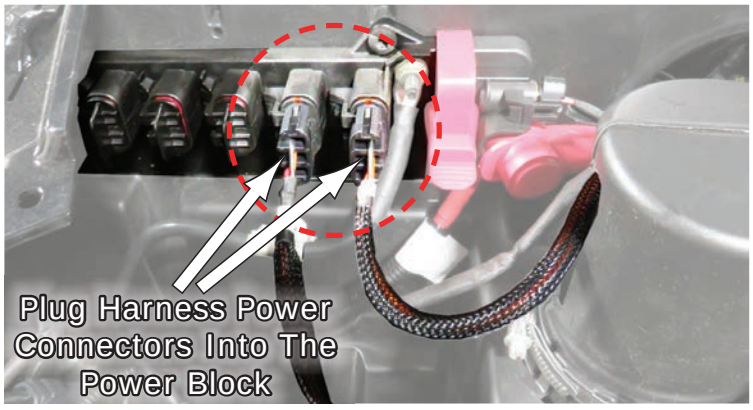
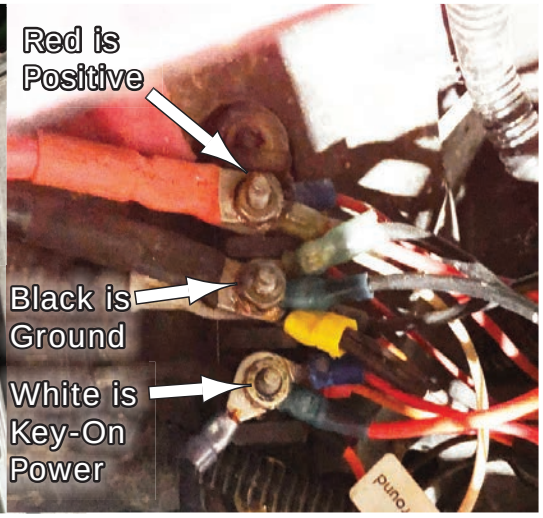


Fig.27b

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Older Machines With NO Pulse Bar Using "Power Wire Pigtail":
Inside the Front Right Fender looking in from the center access, you will see a terminal block on the inside area of the fender. Ring terminals from the Pigtail Harness will hook to these posts as shown here. Red is Positive, Black is Ground and White is Key-On Power.





28.Now that the power connectors are connected, you need to plug in the **Relay**s into the **Relay Connectors** as shown in **Fig.28a**. Then you can mount them where you wish to as the hardware to mount them is not included in your kit. However, we have chosen one location to give you an idea should you like to mount them in this location. See **Fig.28b**.



Fig.28a



Fig.28b

29.Since all the Harnesses are run thru the **Large Grommet**, and if you split it like we did, you can now reinstall the Grommet back to it's original place wrapping it around all the cables and back into the firewall as shown in **Fig.29a-b**.



Fig.29a

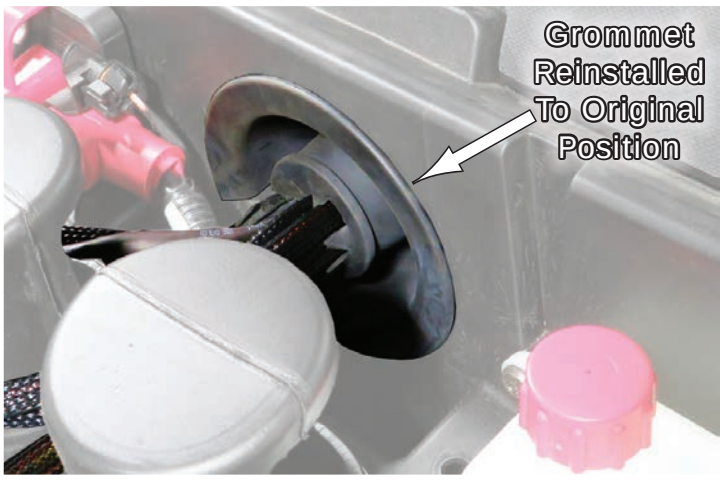


Fig.29b

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30.Now it's time to assemble the **Actuators** with all the **Brackets** to get them ready to install on your machine. These are what raise the Windshield up and down. Use the hardware from your kit or that came with the Actuators to assemble. **Fig.30** shows how to install.

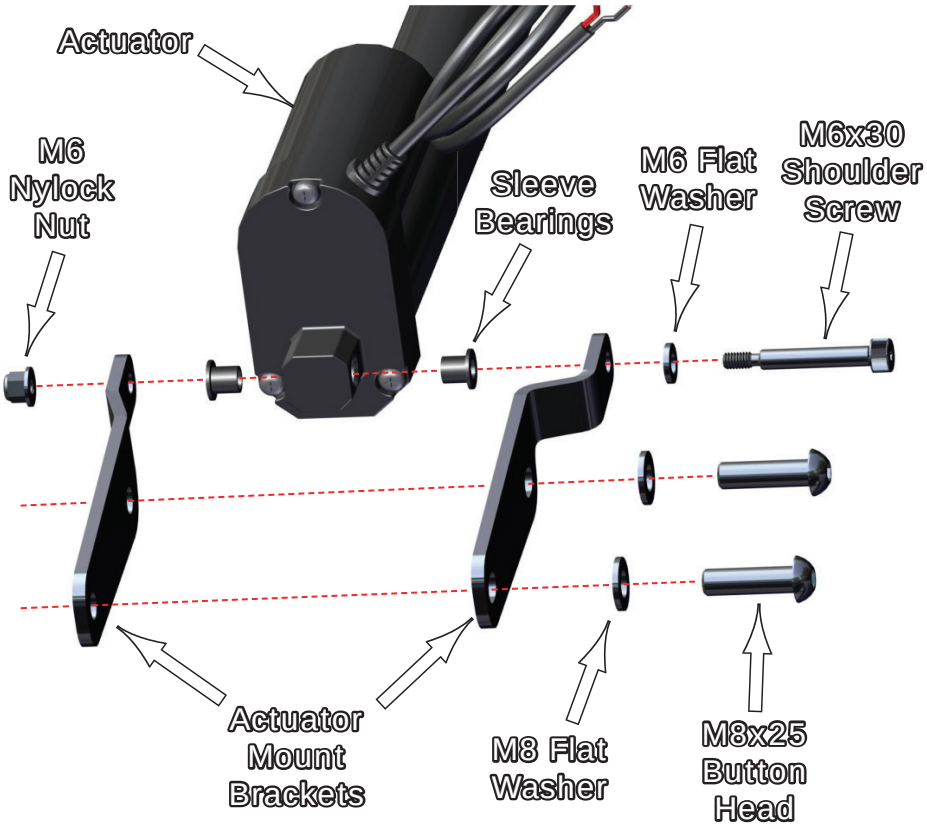


Fig.30a



Fig.30b

31.Next, assemble the **Clamps** onto the **Actuator Mount Brackets** with the hardware provided in your kit. See **Fig.31**.

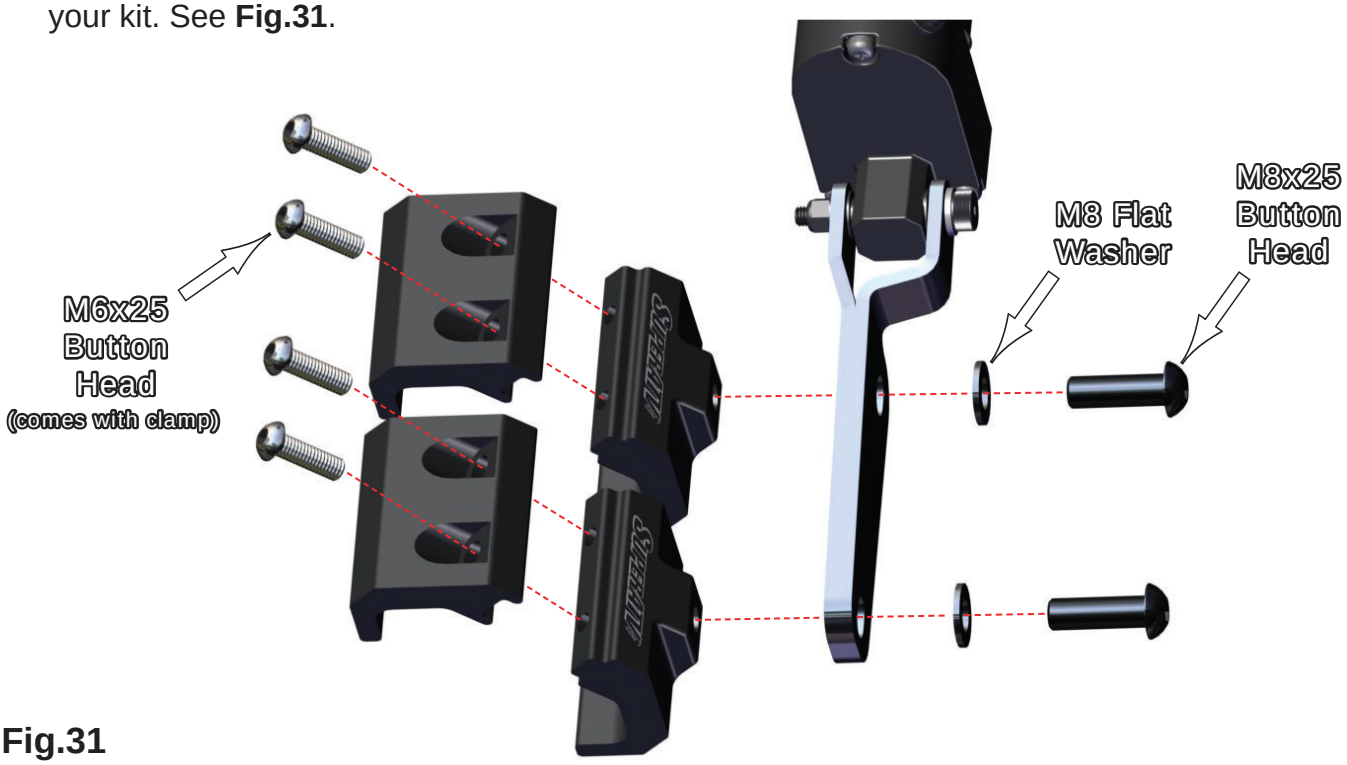


Fig.31

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32.Next, loosen the clamps and install them onto the frame as shown in **Fig.32a**. Keep the screws a little loose so you can adjust the position of the actuator after you have the Windshield in stalled. You will need to adjust both sides to make sure they work as intended. See **Fig.32a-b**.



Fig.32a



Fig.32b

33.After both **Actuator Assemblies** have been installed onto the frame, you can now place the **Windshield** on the vehicle ready to line everything up as shown in **Fig.33a**. Then, align the holes in the upper **Windshield Hinge** to the holes in the frame and install one (1) **M8x25 Button Head** Screw and one (1) **M8 Flanged Nylock Nut** into the upper hinge section thru the frame as shown in **Fig.33b**. Do **NOT** tighten these yet until all bolts and screws are threaded in first. Install one in the Left Side and one in the Right Side to start as shown in **Fig.33c**. Leave a little loose, then once those are threaded in, install the other two screws and tighten secure.



Fig.33a



Fig.33b

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Fig.33c

34.Once both hinges are tightened to the frame, now you need to attach the lower **Actuator Cylinder** to the **Windshield Bracket**. **Fig.34a-b** show installing the cylinder to the **Bracket**. Install it using the **M6x30 Socket Shoulder Bolt** and **M5 Flanged Nylock Nut** and **Sleeve Bearings** provided in your kit, and tighten secure. **Fig.34c** shows installed. Repeat for both sides.

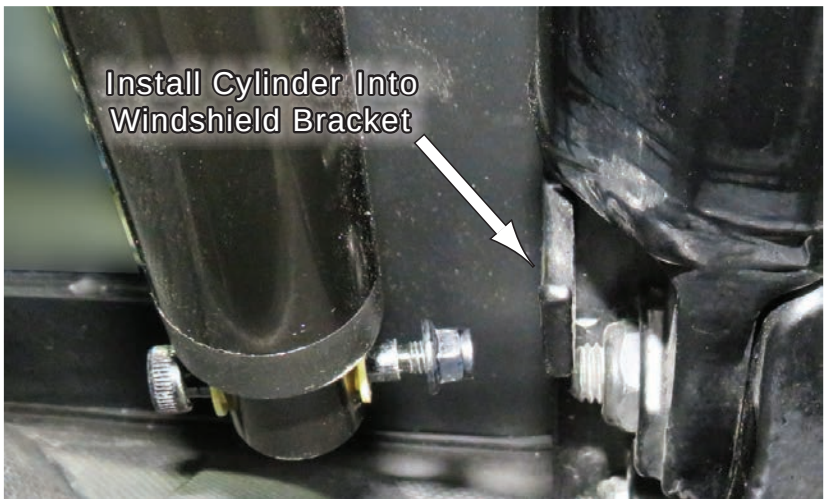


Fig.34a

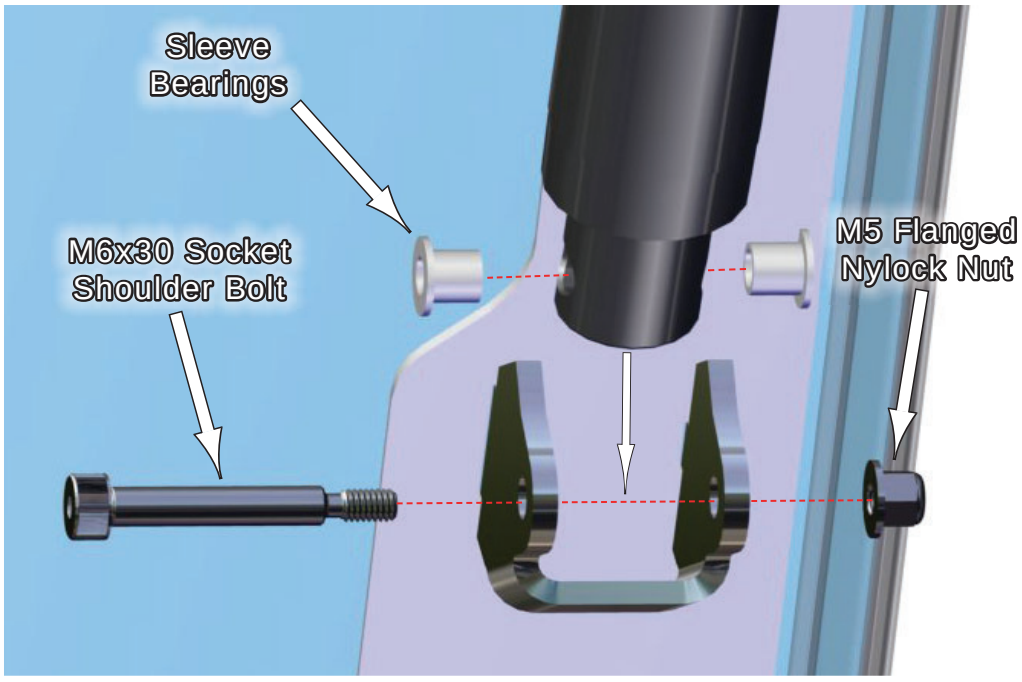


Fig.34b



Fig.34c

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35.When you get both **Actuators** secure in the **Windshield Bracket**, adjust the **Frame Clamps** so nothing is binding, with the Windshield close or down, and tighten down the Clamps in that position. See **Fig.35a**. Then tighten the Actuator Mount Bolts if needed. See **Fig.35b**.

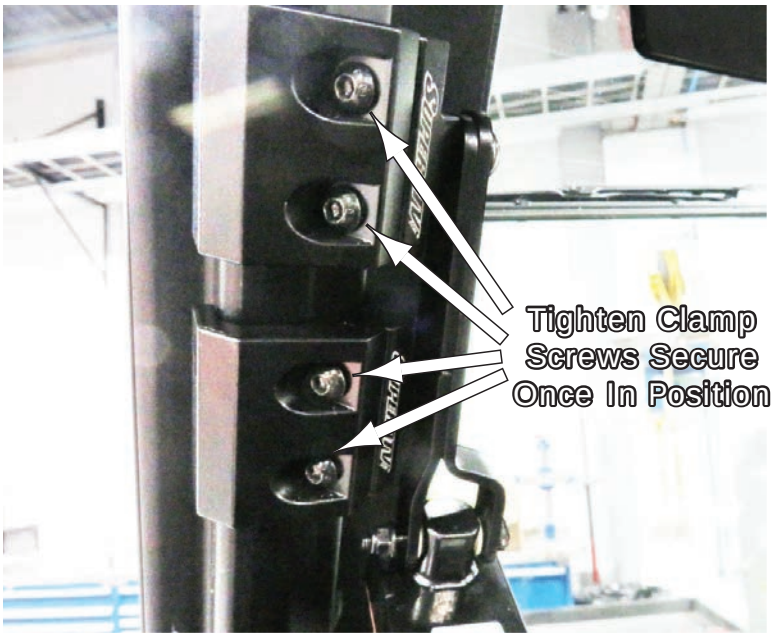


Fig.35a



Fig.35b

36.Now that you have the Actuators ready, now you need to run the **Wiper Motor Harness** cable and **Wiper Motor Hose**. Then route the **Colored Terminal Ends** from the **Wiper Motor** over to the Driver's side frame column as shown in **Fig.36a-b**. Feed it down into the dash area in front of the steering wheel (dash opening). Then feed the cable from the Actuator on that same side down the same route and into the open area as well and connect to the power connector. See **Fig.36a-d**.

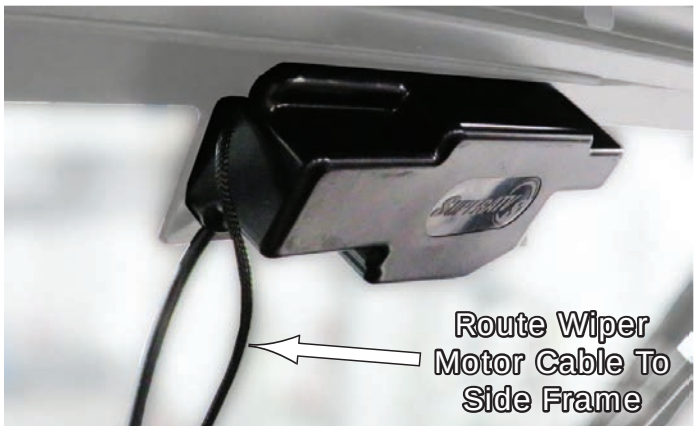


Fig.36a



Fig.36b

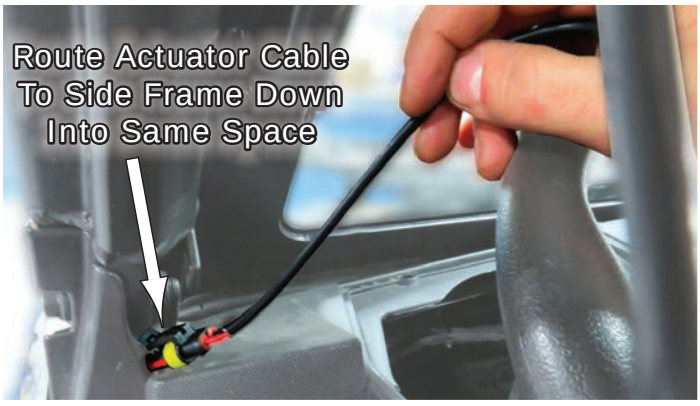


Fig.36c

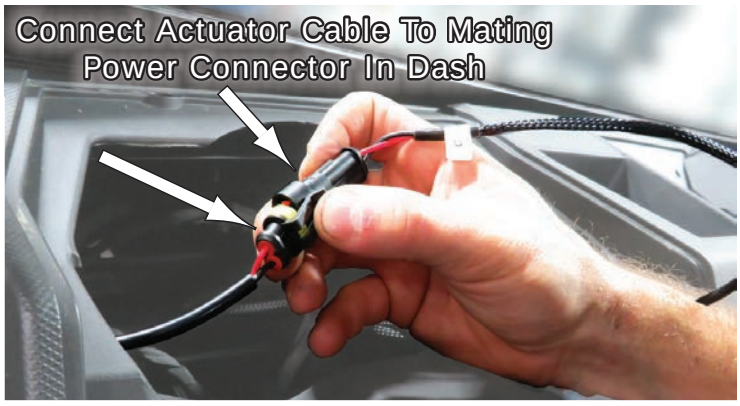


Fig.36d

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37.Next pick up the **Colored Terminal Wires** you first routed to the dash space in front of the steering wheel and connect them to the **Mating Colored Terminals** in your dash you routed previously. See **Fig.37a-b**.



Fig.37a



Fig.37b

38.Now route the **Rubber Wiper Fluid Hose** down the same side with the cables and wires your just ran, see **Fig.38a**. Route it inside the dash area and down to the center console area and continue to route it on back to under the battery box as you did for the Fluid Pump Motor Cable, and route it out the drilled hole and attach to pump nipple at the bottom of the pump. See **Fig.38b-d**.

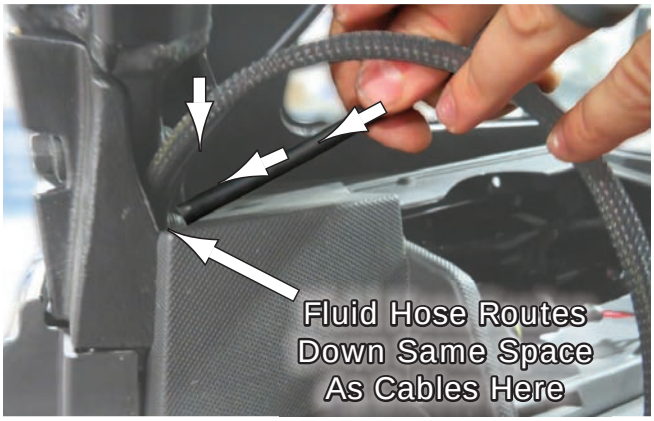


Fig.38a



Fig.38b

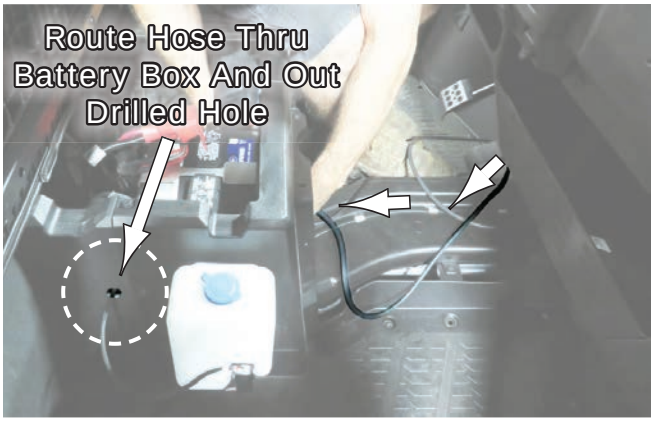


Fig.38c

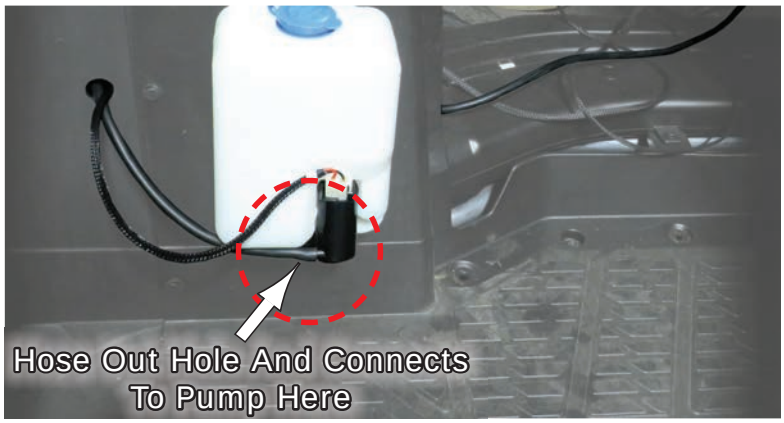


Fig.38d

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39.The next thing you will need is to hide the **Harness Cable** and **Fluid Hose** from the **Wiper Motor** to the vertical frame where you routed them down into the dash. First, locate your **Adhesive Backed Rubber D-Seal** in your kit and cut a piece **14-1/2”** in length as shown in **Fig.39a**. Then feed the harness cable and the **Wiper Fluid Hose** into the seal as shown in **Fig.39b**. Now remove the **Adhesive Backing Paper** from the bottom side and apply the seal with cables onto the vehicle in the space shown in **Fig.39c**, keeping it straight and neat as possible. **Fig.39d** shows this section installed, ready for the next section.



Fig.39a



Fig.39b



Fig.39c



Fig.39d

Next you will cut another D-Seal Section for the Vertical Frame in the next steps.

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40.Now you will cut another piece of the **D-Seal** at **13-1/4" in length**. This is to hide the hose and cables going down into the dash from the vertical frame. So start feeding the cables and hose into the seal as you did before as shown in **Fig.40a**. After all in inside the seal, then remove the **Adhesive Backing Paper**, **Fig.40b**, and apply the seal in the location shown in **Fig.40c**. **Fig.40d** shows more detail of the items leaving each end of the seal.

NOTE: *You may need to pull the Actuator Cable out the top a little bit in order for it to extend when opening the Windshield. Just keep this in mind as you work*. See **Fig.40d**.



Fig.40a



Fig.40b



Fig.40c



Fig.40d

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41.Now move to the **Passenger's Side** and connect the **Actuator Connector** plug to the connector you routed over to that side previously as shown in **Fig.41a**, then route the cable back down the space you brought it up thru, back inside the dash area, **Fig.41b**. Then take another **13-1/4" Long Piece** of the **D-Seal** and insert the **Actuator Cable** inside of it like you did on the Driver's side. Then Peel the **Adhesive Paper Backing** off, **Fig.41c**, and place on the vertical frame as shown in **Fig.41d**. The same locations as the Driver's side.



Fig.41a



Fig.41b

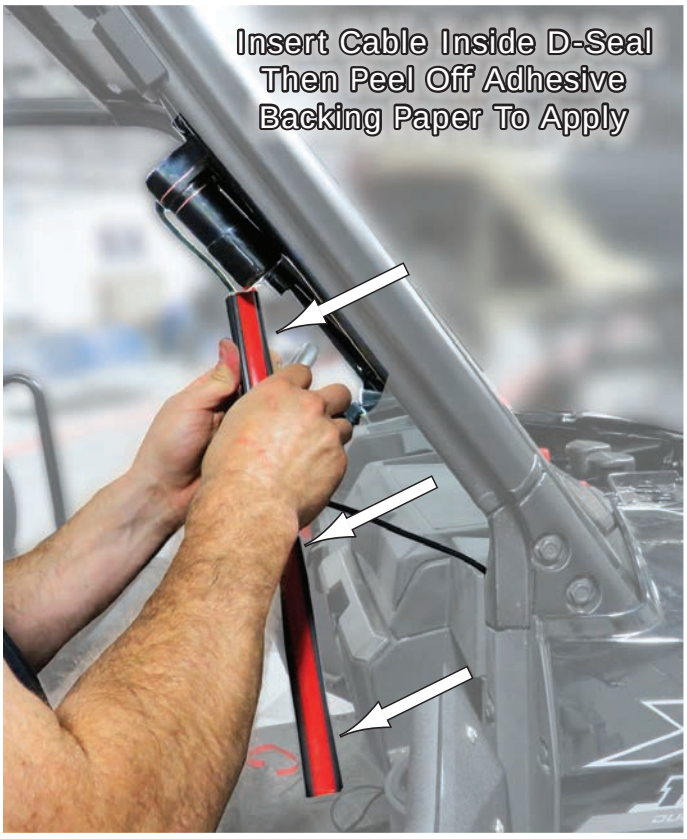


Fig.41c



Fig.41d

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After you have fixed the D-Seals to the vehicle, you may want to Zip-Tie the Cable/Hoses to the frame to keep them from moving or catching on other items. Recheck all Screws/Bolts to make sure all is secure. Then replace any other items removed during the install, and try out your new system.

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