

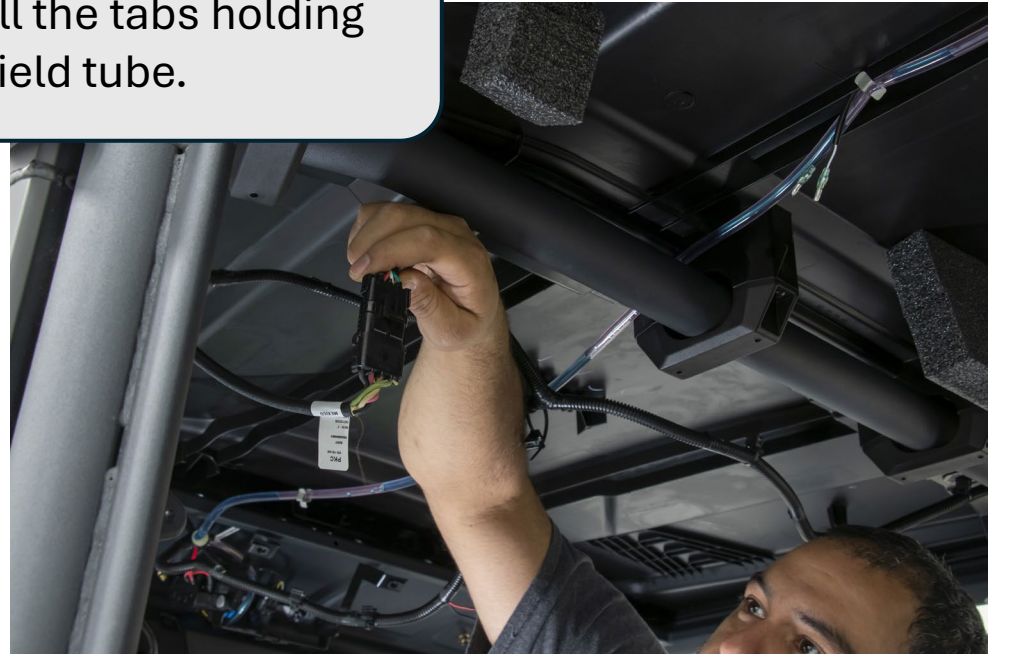
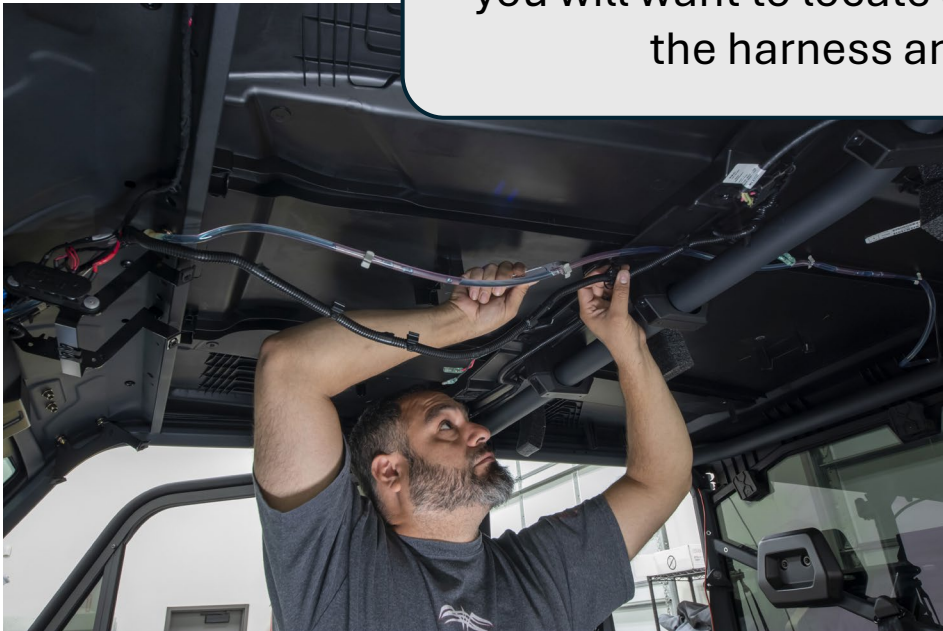
AR-Defender Roof

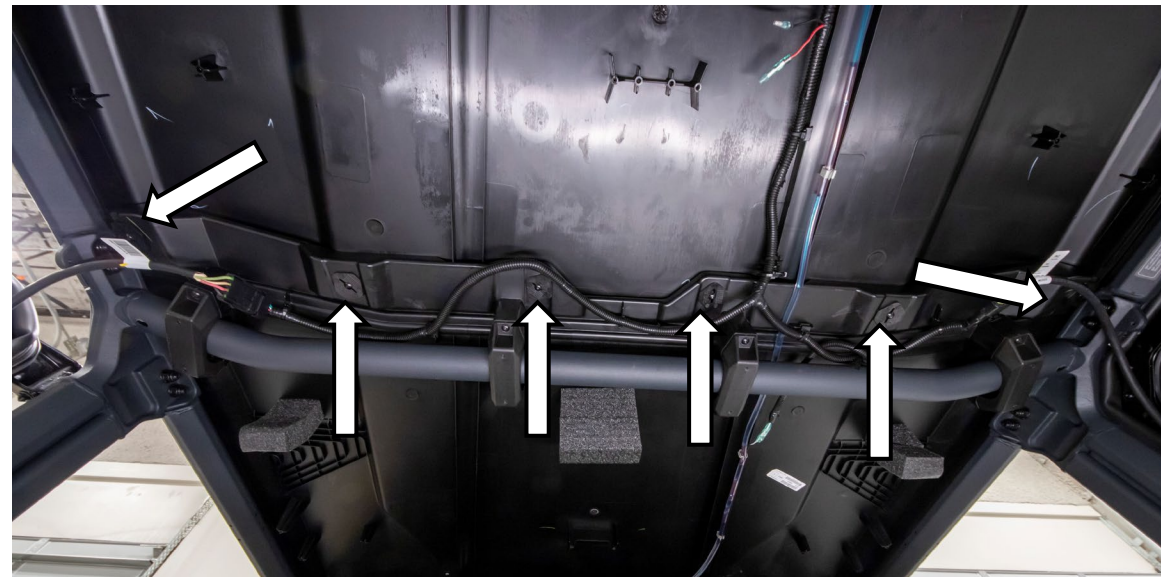
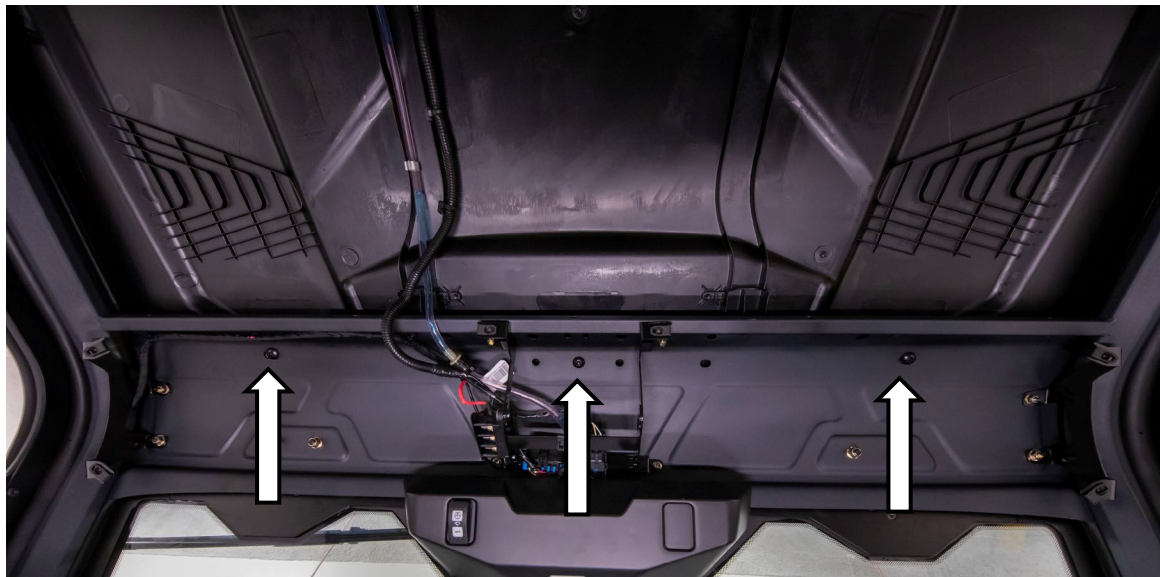
Installation for a Limited-Edition w/
power windows and front wiper.





Once you have the carpet lining removed from the roof you will want to locate and remove all the tabs holding the harness and the windshield tube.





locate 3 (T-20) screws in the front of the roof and in 6 (T-20) the middle section near the clamps. This will allow you to remove the front section of the roof. To remove the back section of it you will need to remove the clamps and 4 (T-40) bolts on the back side of the Defender and slide out the 3 Locks from the back widow and remove it before you can remove the last section of the roof.



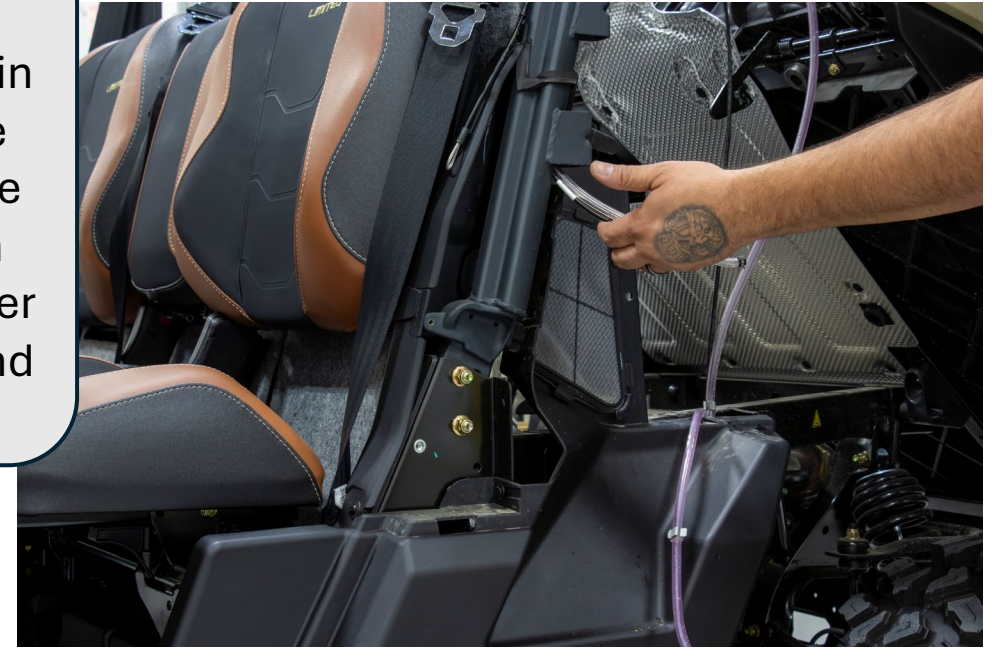


Once the back glass is removed you can now remove the front part of the roof then the back part. That will leave you with the power window harness up front. You will want to remove the hose for the windshield fluid and the harness that goes along with it. we will need to re-route them on the other side of the defender.





You will want to put the fluid into a container you will need remove it for a while. There is 1 (T-20) Screw this will need to be removed to gain access to the location where the tub is run through in-order to remove it and the harness.



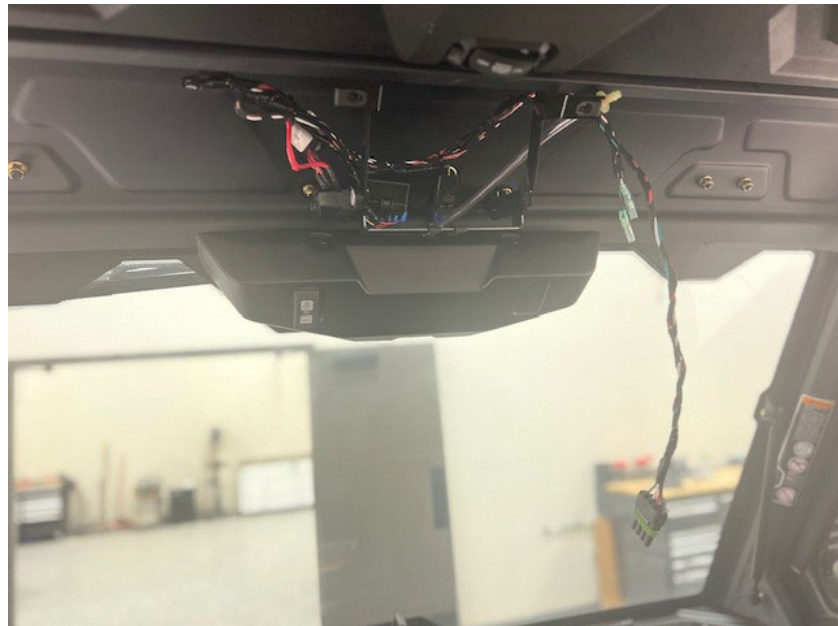
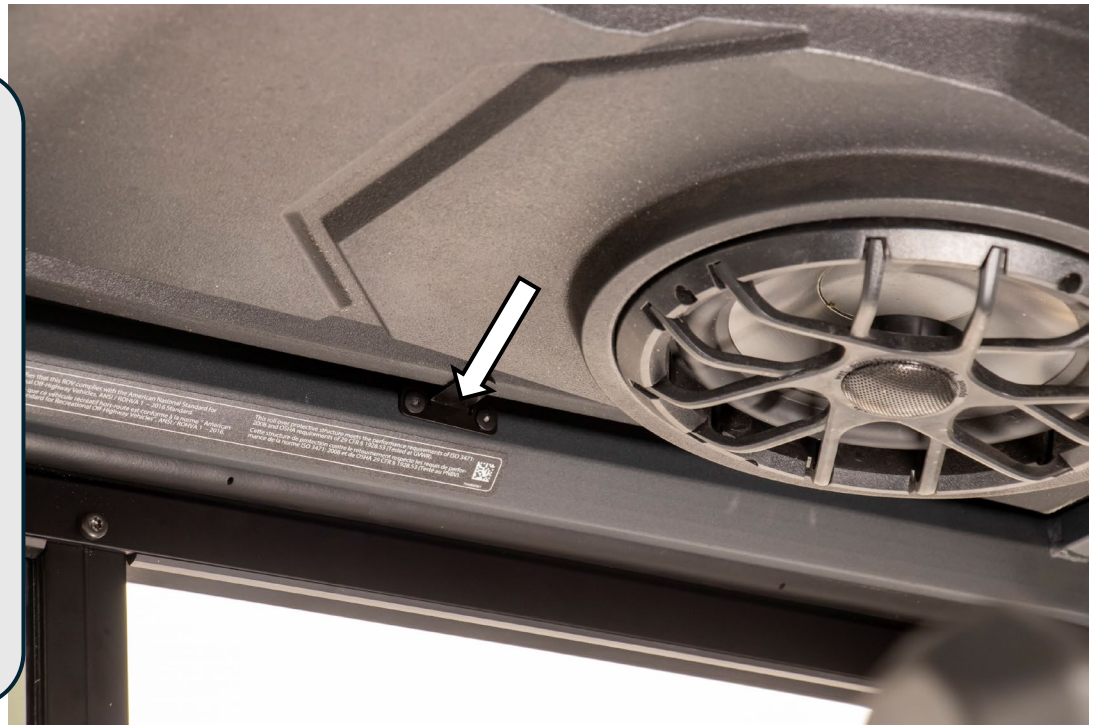


On the opposite side similar location fish wire through the side rail and tape to your tube and the wire that triggers it to spray this will be extending later. You will see similar tubes routed just follow that path to make it back to the OEM location. Once you have that routed back to the OEM location you can now put the AR-Roof on.

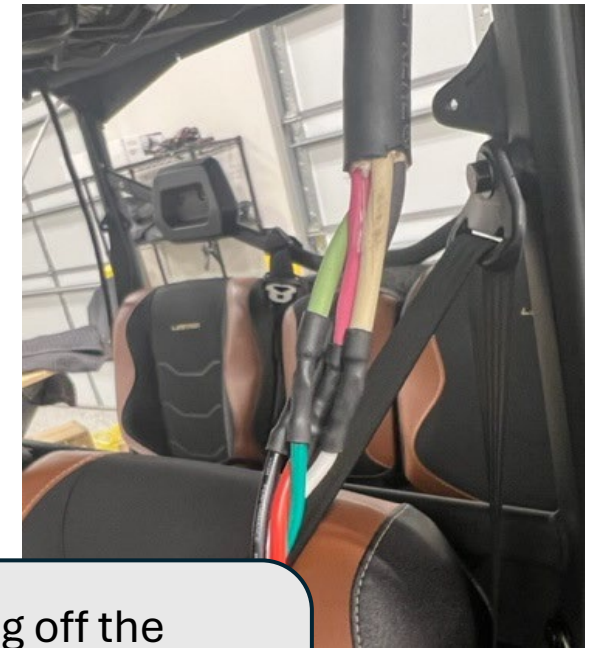




You will notice 2 metal tabs that secured the carpet liner they are riveted in place they will need to be removed.

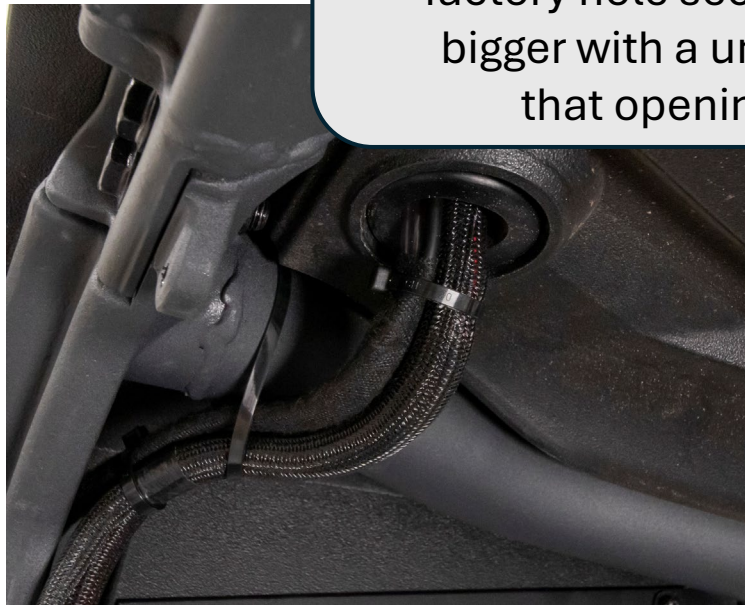
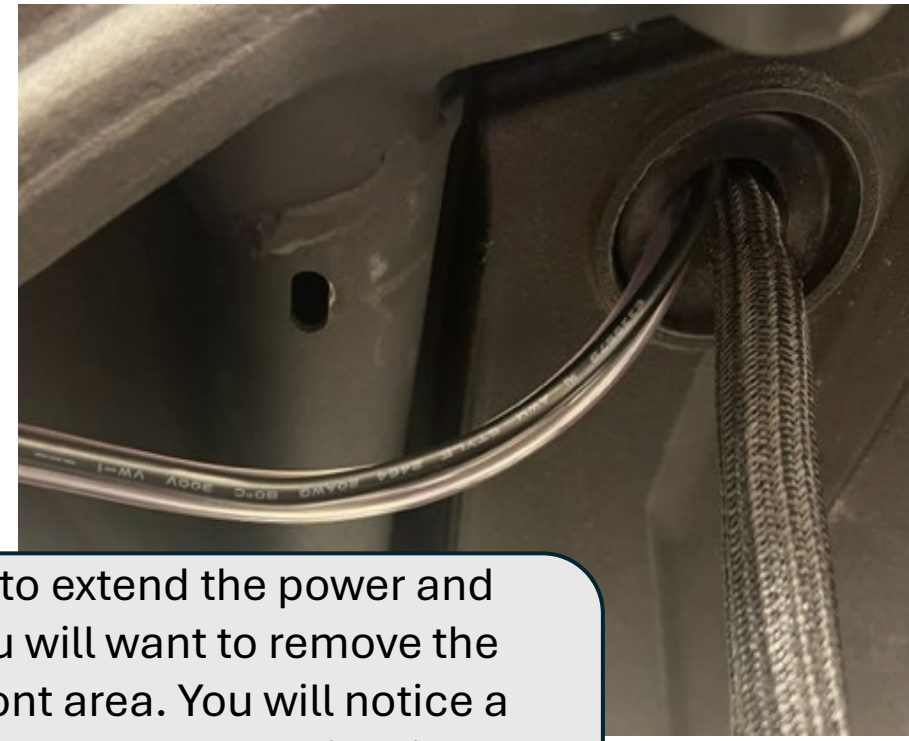
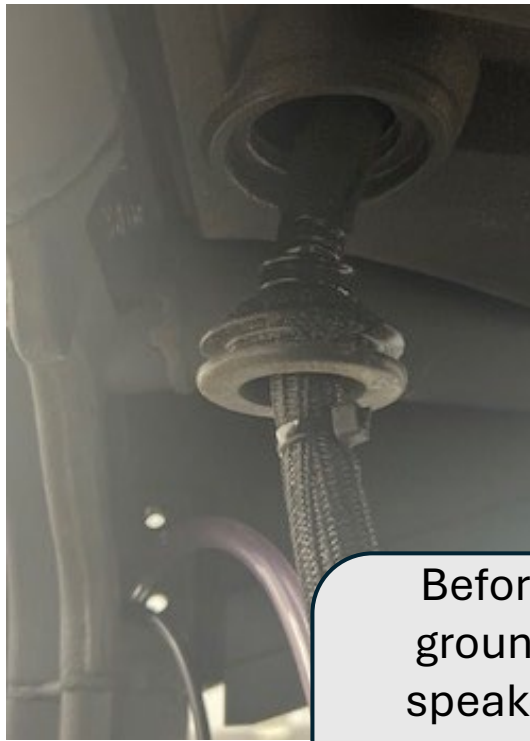


With the main harness you will want to remove the loom from it in-order to better arrange it in the area. We recommend taping the harness up to keep it organized and locate the plugs for the doors on the corresponding sides

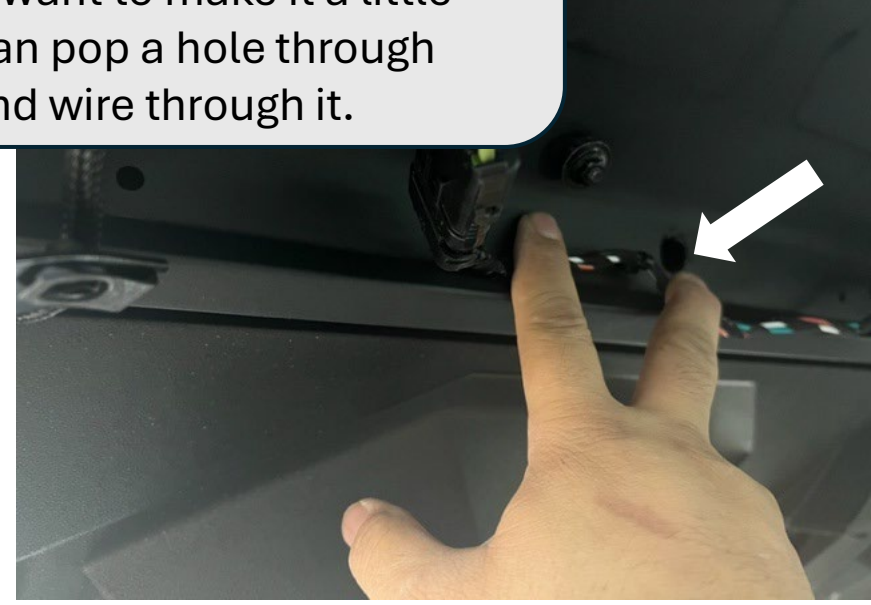


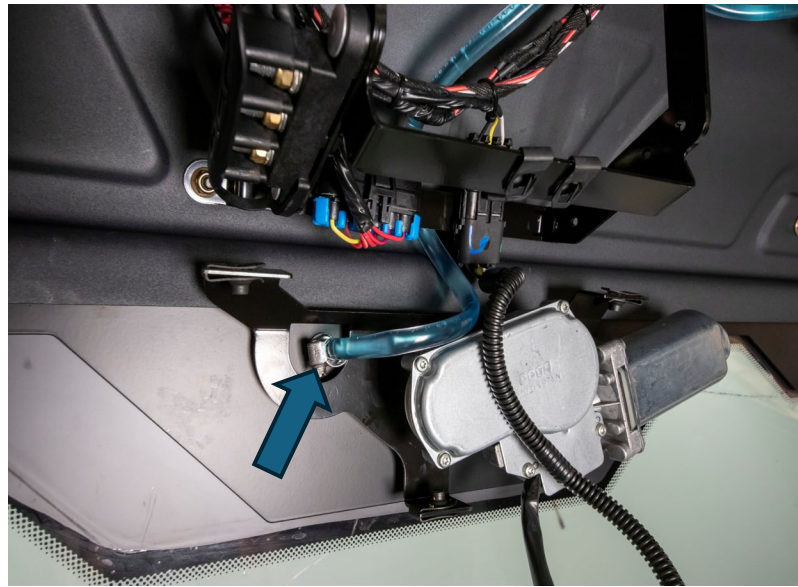
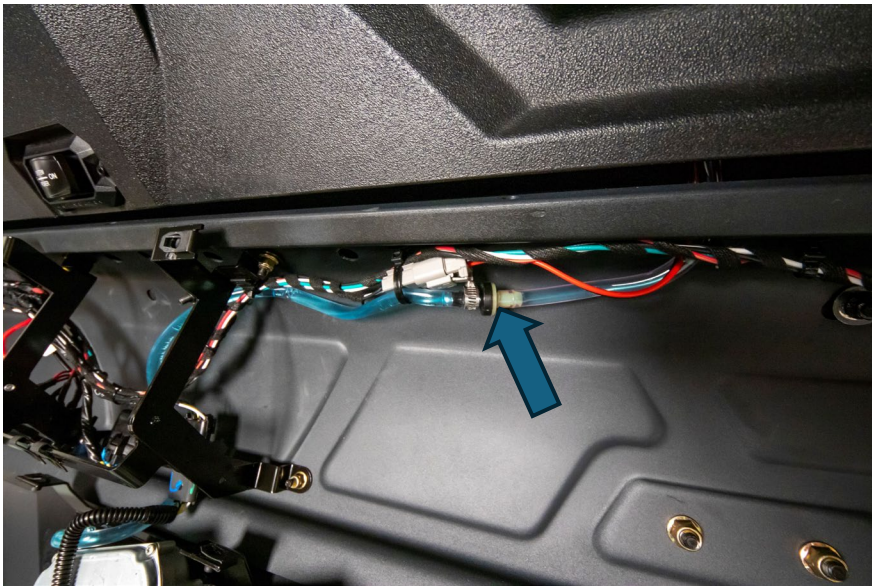
With the main harness situated now you can extend the harness coming off the doors you will want to strip back the main cables shielding some and cut at least 2inch or more above the plug and extend it about 2ft and it will tuck along the railing and roof to plug back in where you have relocated the main harness.





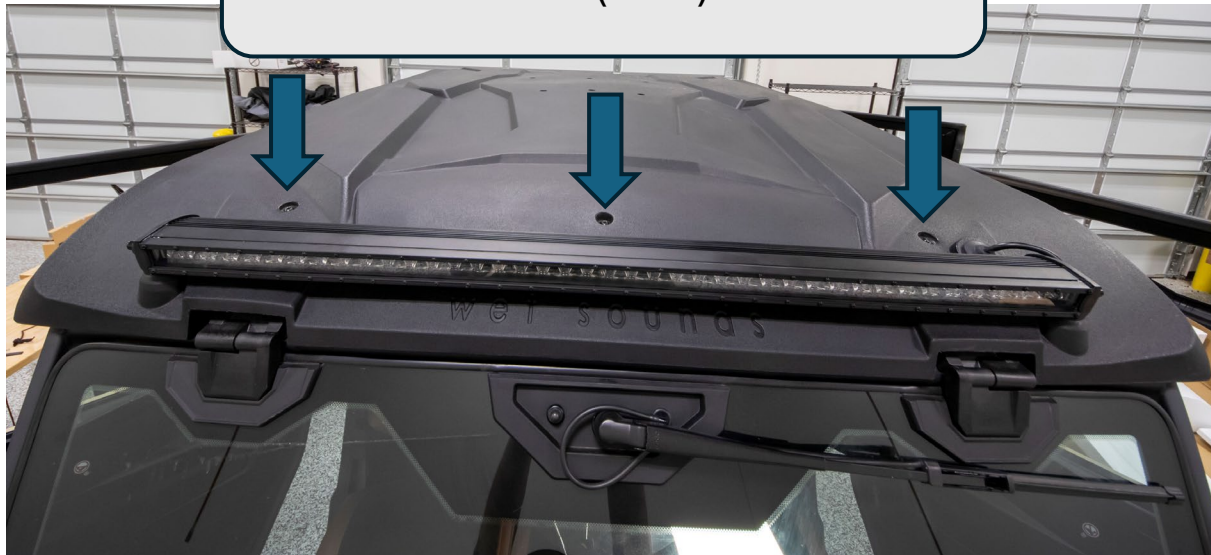
Before routing the tube and wire in the roof you will want to extend the power and ground wire for the wiper fluid, so it reaches the front. You will want to remove the speakers from the roof to better route everything to the front area. You will notice a factory hole second one starting from the left side you will want to make it a little bigger with a unibit then get a drill bit big enough so you can pop a hole through that opening into the roof so you can route the tube and wire through it.





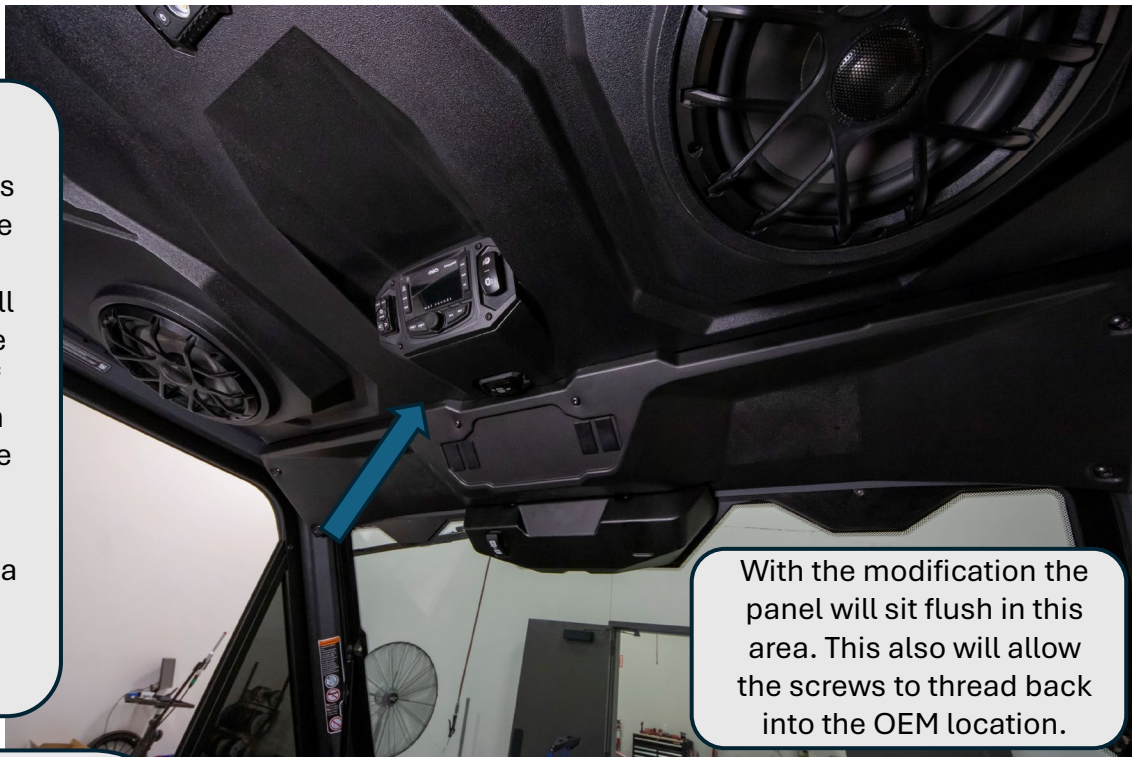
You will need to purchase tubing to extend the rest of the way Item # 4315511. you will need 1.5ft to reach the location needed you will use the existing adapter To connect the tubes together.

Now time to secure the front of the roof with 3 (T-40) bolts.





On the front panel with dummy switches notice where the arrows are pointing. You will need to trim the front portion of the panel down to the line where the arrow is pointing and between the area where the second arrow indicates.



With the modification the panel will sit flush in this area. This also will allow the screws to thread back into the OEM location.



Now you can move to the middle of the roof and start placing the clamp mounts in place 4 total. Then time to remove the rear seat on passenger side to route the main harness to the battery.





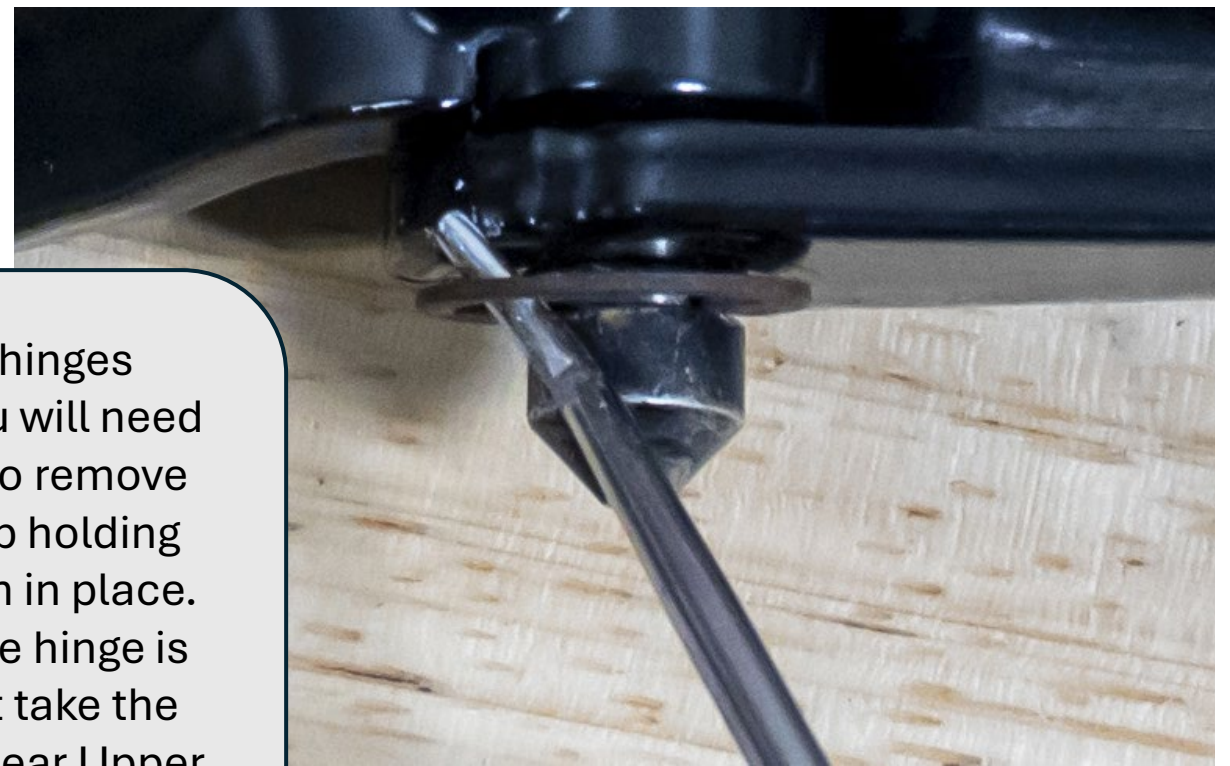
With the back seat removed now to remove the carpet panel in order to route the harness. Once routed under the seat you can now place the carpet panel back and connect the positive and negative to the battery.





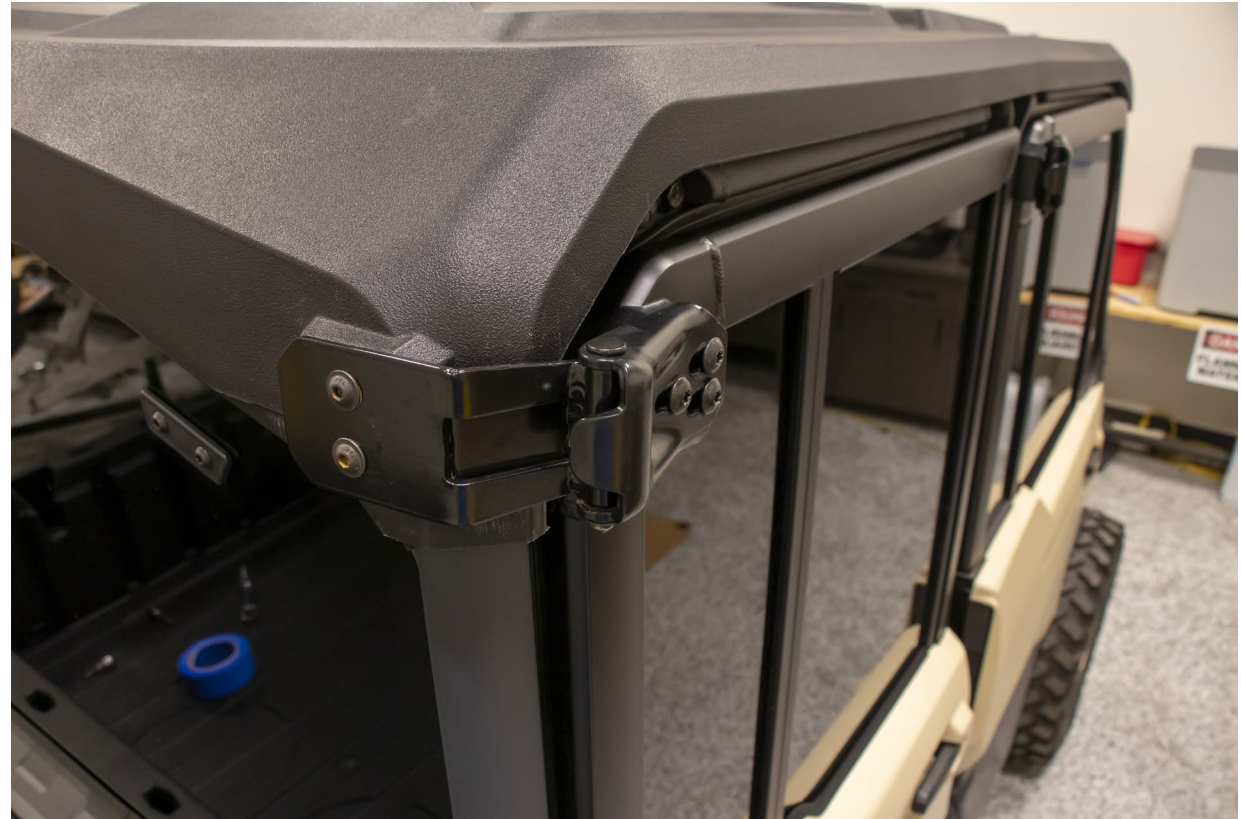
The Battery Cover will need to be modified in order for it to sit back into its original location. With a Un-Bit you will want to notch out a hole big enough so that the harness will fit in the groove. With that now done we can now move on to the rear of the roof for the top door hinge swap. in order for the rear of the roof to be secured you will need to remove the top hinges on both side.





With the hinges removed you will need a pick tool to remove the lock clip holding the hinge pin in place. Now that the hinge is taken apart take the (ADP-CAD-Rear Upper Hinge) and slide it into place and insert the pin and lock it in place. With the hinges now complete its time to finish the install of the AR-Roof.





With the hinges now mounted you can put the back window back on and you are now finished with the installation of your new AR-Defender Roof!!

THE END