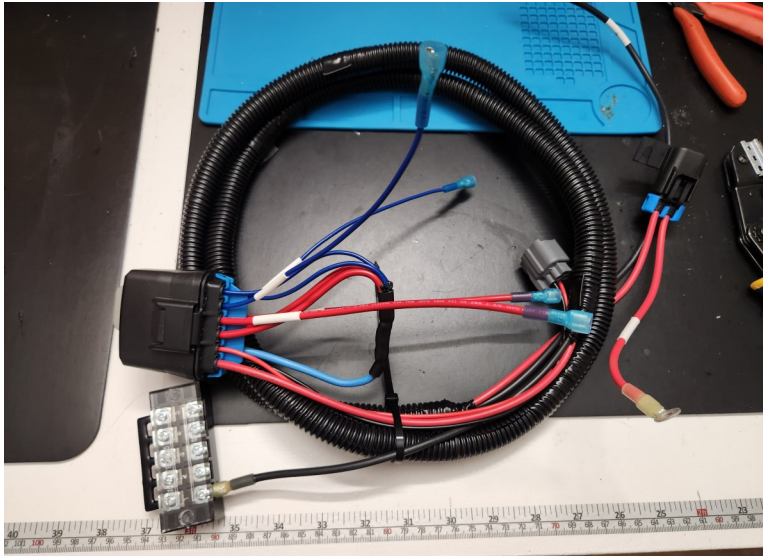


## SpeckHobbies 4 Circuit Fuse Box



Tools you'll need for installation.

Cold beverage of choice.

T30 torx bit.

Push Rivet removal tool (or your method of removing them).

14mm wrench for removing the shift knob.

10 mm wrench or socket for Battery cable bolts.

Zip ties if they didn't come with the kit.

These instructions will guide you through your install of the 4 Circuit Fuse Box. In a nut shell you'll remove the drivers seat cushions and pull the seat frame forward. Then remove the passengers seat altogether. Remove the shift knob and center console. Then connect the Fuse box to the battery, route the cables and install the Fuse Box on the firewall. Easy. Let's get to it.



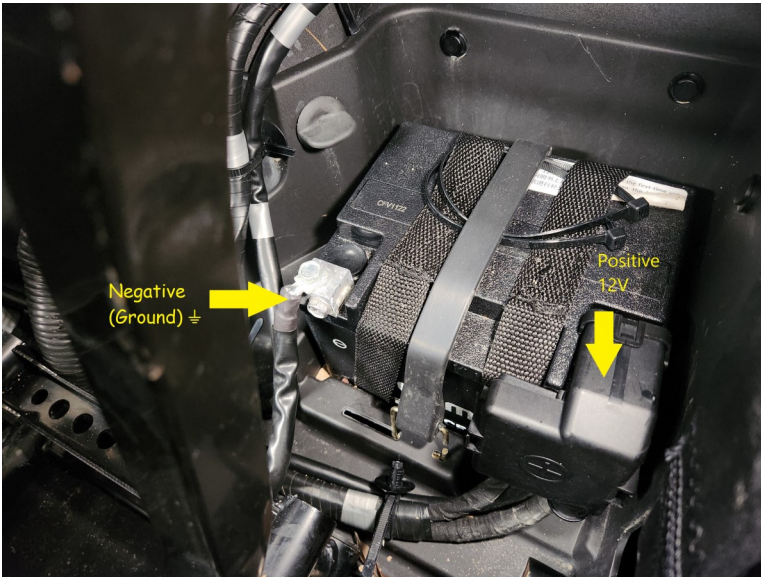
1. Remove the drivers seat cushions by pulling the front of the seat up and then forward. Then pull the backrest bottom forward and then up.



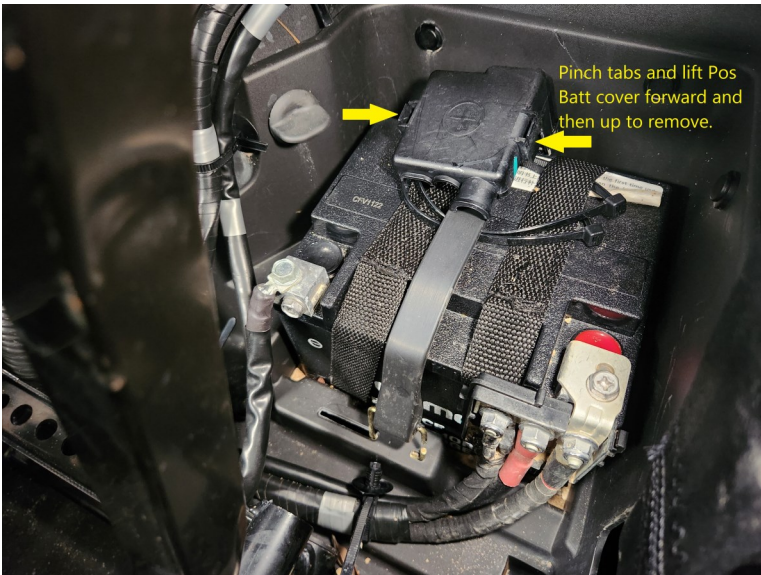
2. Lift the handle and slide the seat forward to gain better access to the battery.

FYI, the factory fuse box, computer and diagnostics port are behind the panel at the top of the seat frame in this picture. Also the starter solenoid is behind a small cover above the battery.

## SpeckHobbies 4 Circuit Fuse Box



3. Now you have room to access the battery terminals. First, remove the positive terminal plastic cover.

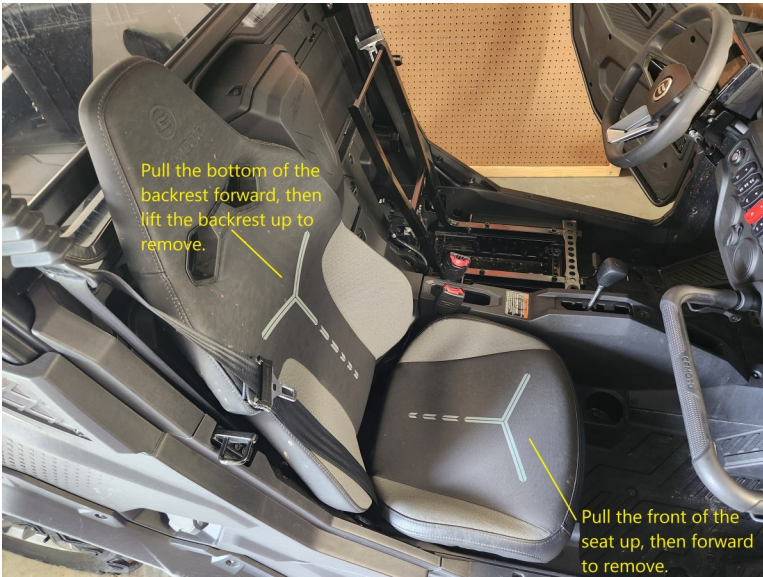


4. Pinch the tabs and lift the positive battery cover forward and then up to remove it. Set it aside for reassembly later.



5. You'll need to remove the center console in a bit but you'll need to remove the motor Access Cover first. Before you're able to do that you'll have to remove the passenger seat.

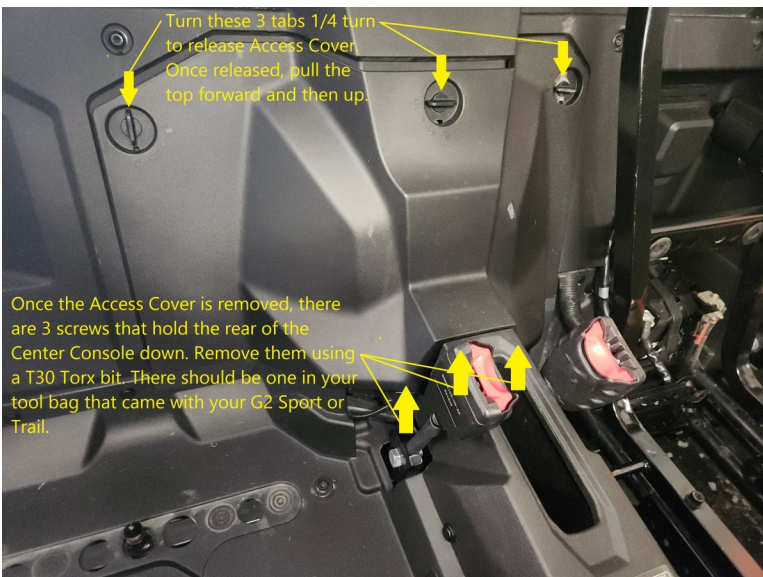
## SpeckHobbies 4 Circuit Fuse Box



6. You can remove the seat by releasing the latch behind the seat cushion. If you've never done this before, just remove the seat cushion and backrest like you did for the drivers side. This will give you a clear view of the seat frame for removal.



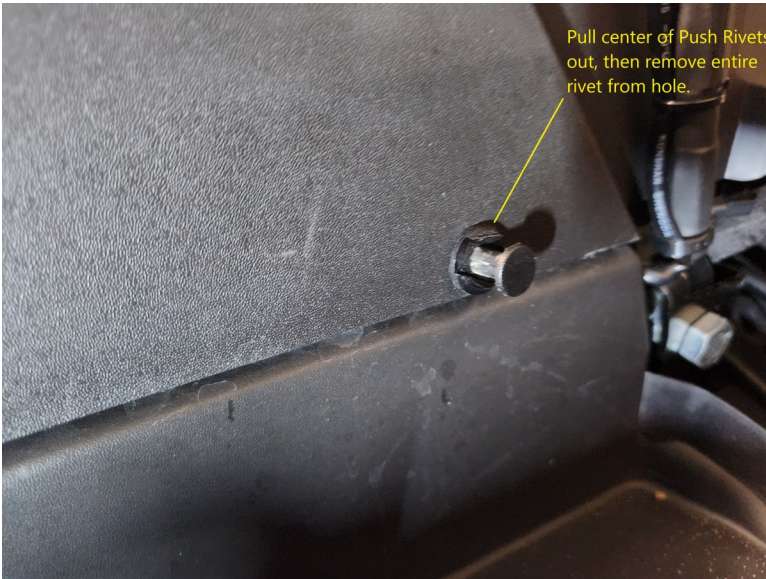
7. Lift the frame release handle (latch) and pull the back of the seat frame up. The front of the seat frame is captured by the machines frame at the front and will need to be slid backwards before being able to remove it.



8. Now you can remove the motor Access Cover by turning the 3 tabs 1/4 turn and pulling forward and then up.

There are three T30 torx bit screws at the rear of the console (under the Access Cover) that will need to be removed.

## SpeckHobbies 4 Circuit Fuse Box

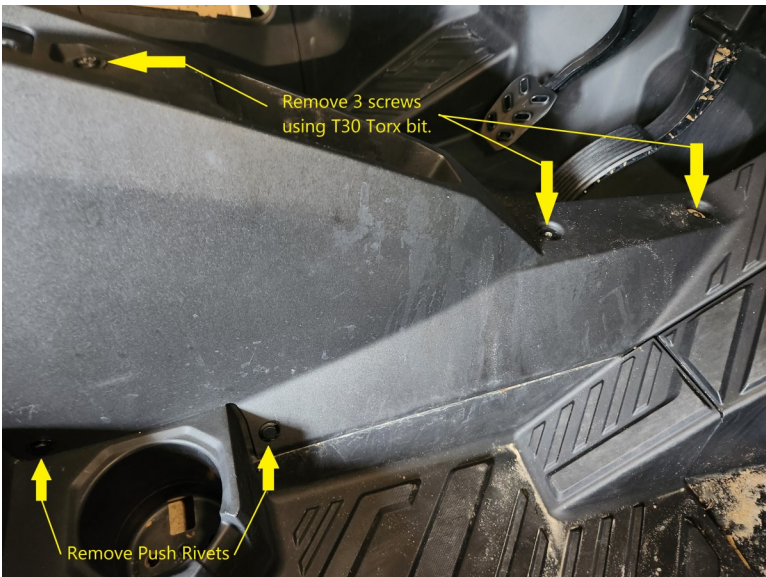


9. To remove the Push Rivets, pull the center pin out and then remove the base from the hole. This is easier to do if you have a tool designed for these things but you can do it with a flat blade screwdriver and/or needle nose pliers.

If you plan on doing any other work to your G2 you should go ahead and invest in one of these tools.

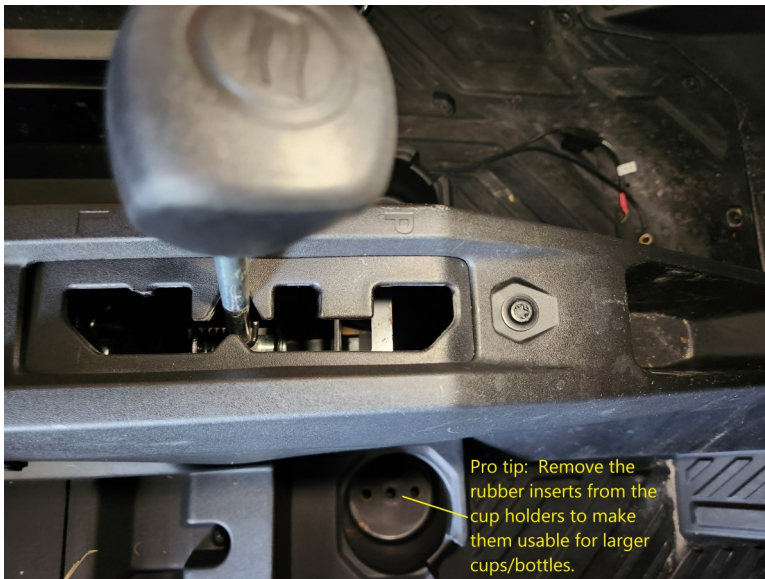


10. Now remove these two Push Rivets.



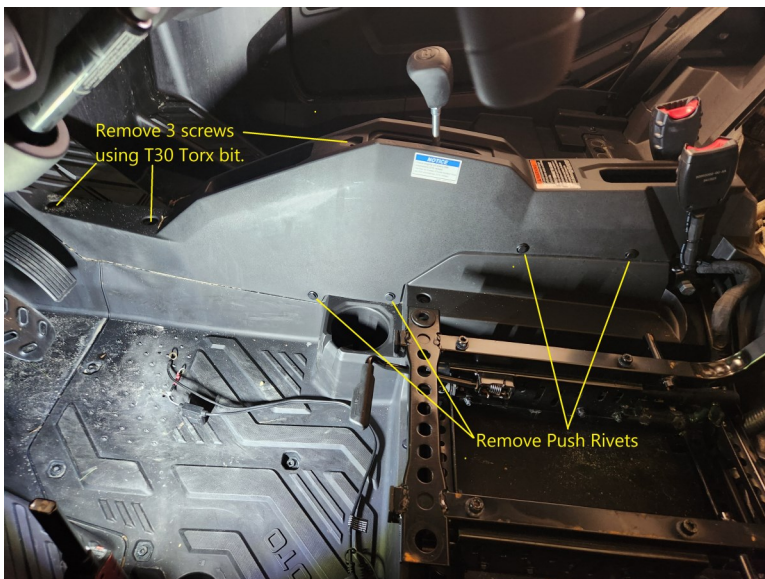
11. Remove these three T30 Torx bit screws and the two Push Rivets by the cup holder.

## SpeckHobbies 4 Circuit Fuse Box

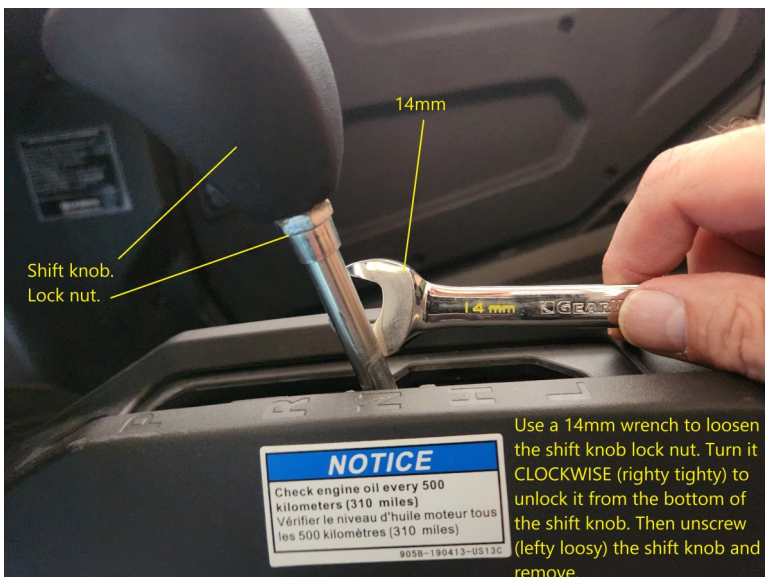


Pro Tip:

Remove the rubber inserts from the cup holders to make them usable for larger cups & bottles. You'll have to pull harder than you think. They are rubber and there are two rubber pegs molded into the bottom of the inserts that need to be popped out. Just pull straight up.



12. Make sure the three T30 Torx bit screws are removed and remove the four Push Rivets on the drivers side.



13. Use a 14mm wrench to loosen the shift knob lock nut. Turn it **CLOCKWISE** (righty tighty) to unlock it from the bottom of the shift knob. Then unscrew (lefty loosy) the shift knob and remove it.

When installing it, screw the shift knob down all the way (don't force it) then turn it backwards to align it and run the lock nut up to it. Tighten the lock nut to the shift knob to lock it in place.

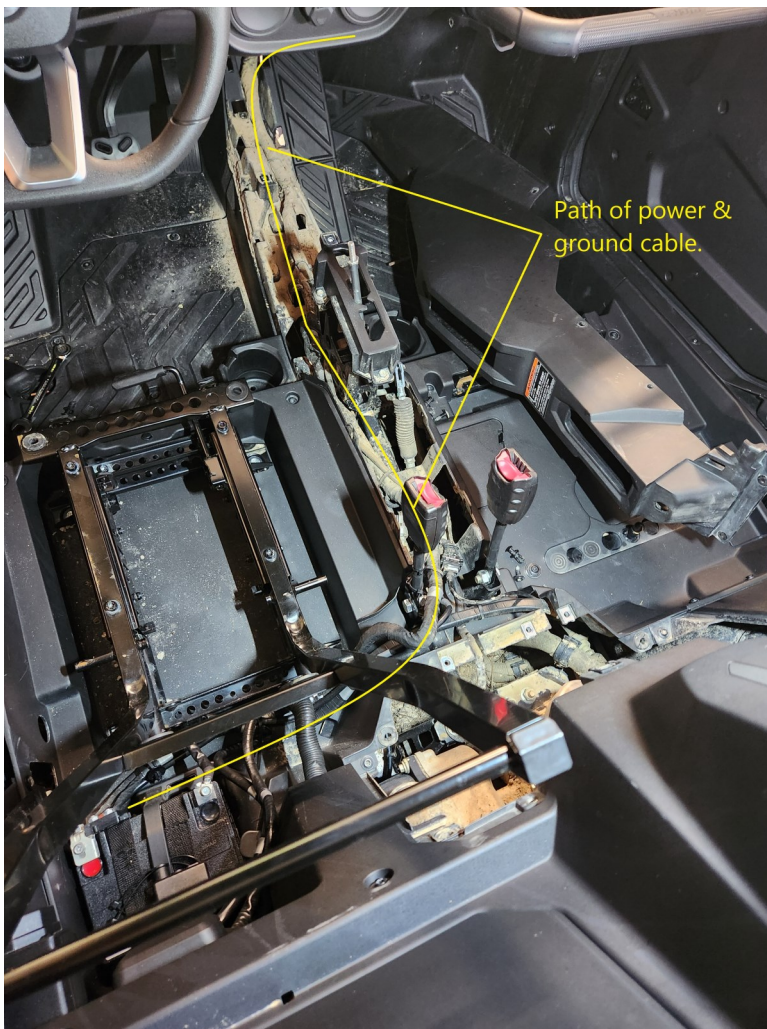
## SpeckHobbies 4 Circuit Fuse Box



FYI: The shift lever is threaded for M8-1.25.

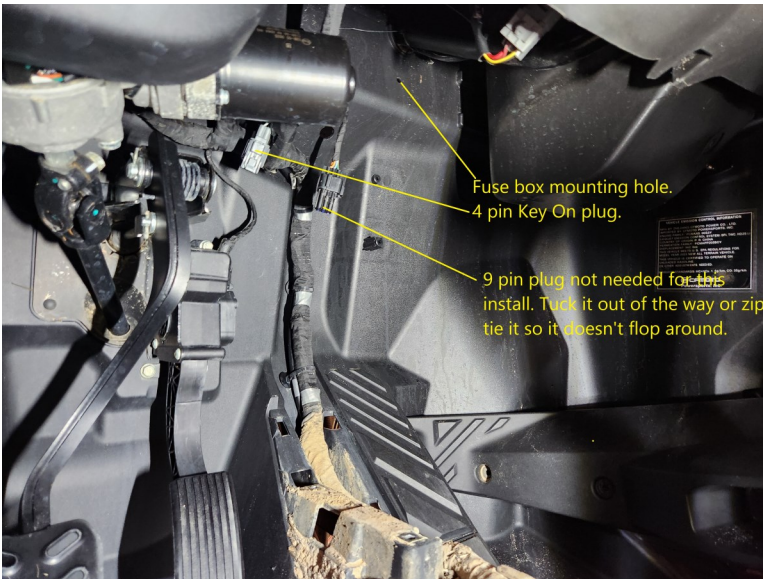
You can buy other shift knobs with the same thread pitch and install them if you like.

Also, you can use an oil based paint pen (not acrylic) to fill in the lettering on your smooth (chromed) wrenches. Let it dry overnight and scrape off the excess with a razor blade. Much easier to read.



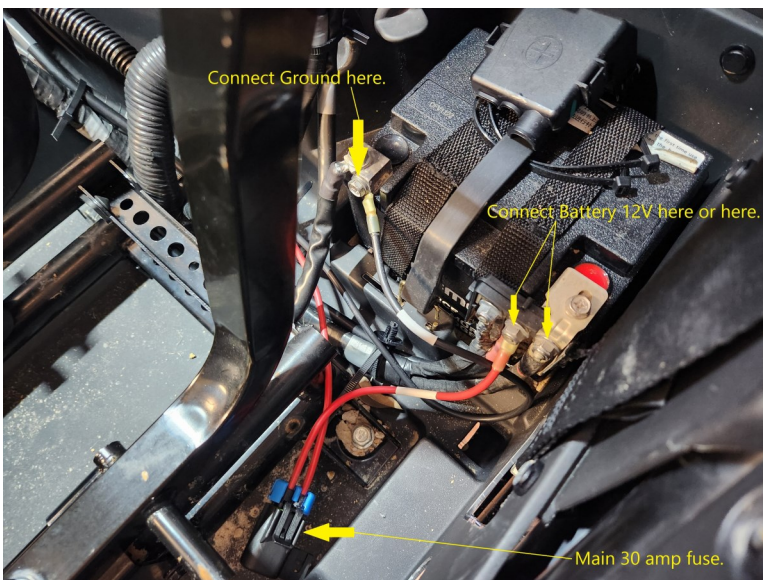
14. Remove the center console by lifting up on it. Set it out of the way. This is the path that you'll route the power & ground cable.

## SpeckHobbies 4 Circuit Fuse Box



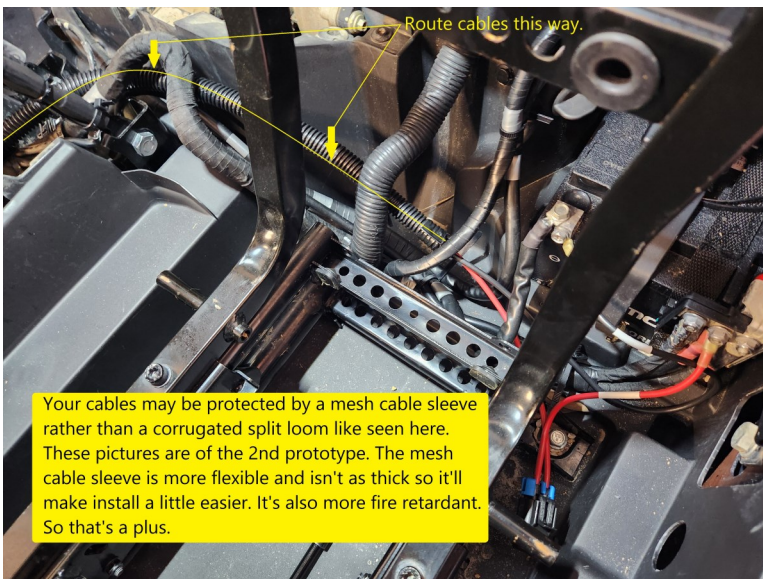
15. There should be two plugs under the center of the dash as shown. The 9 pin plug (black in this picture) will not be used. The 4 pin plug will be used to turn on the 30 amp relay in the fuse box when the key is turned on.

There should be a hole in the dash as seen in the picture where you can mount the fuse box hanger. If not you can drill one pretty easy or mount it wherever you like. Now let's start installing the fuse box.



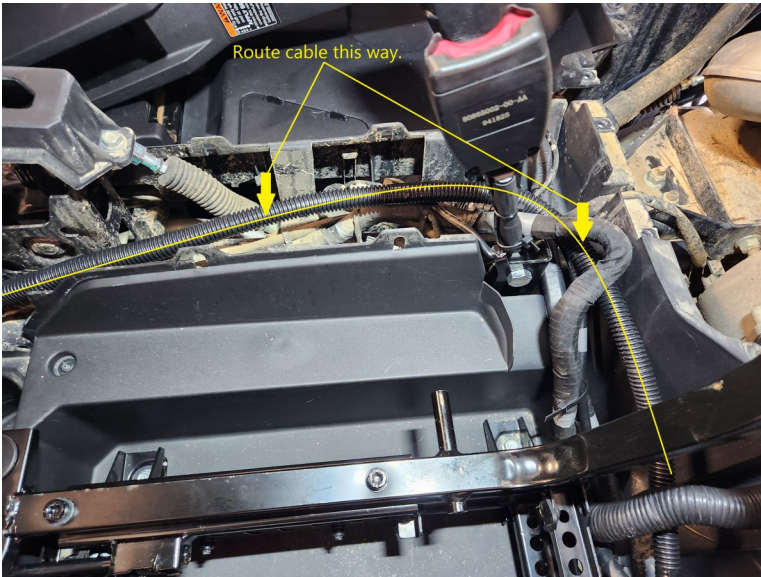
16. Connect the BLACK wire to the Negative battery post as shown. Then connect the RED wire to the positive battery post. Try to connect it so that the cable will set as flat as possible against the battery. This will help when you re-install the protective cover that you removed earlier.

The 30 amp main fuse is IP67 rated so you don't have to worry about mud or water getting in it.

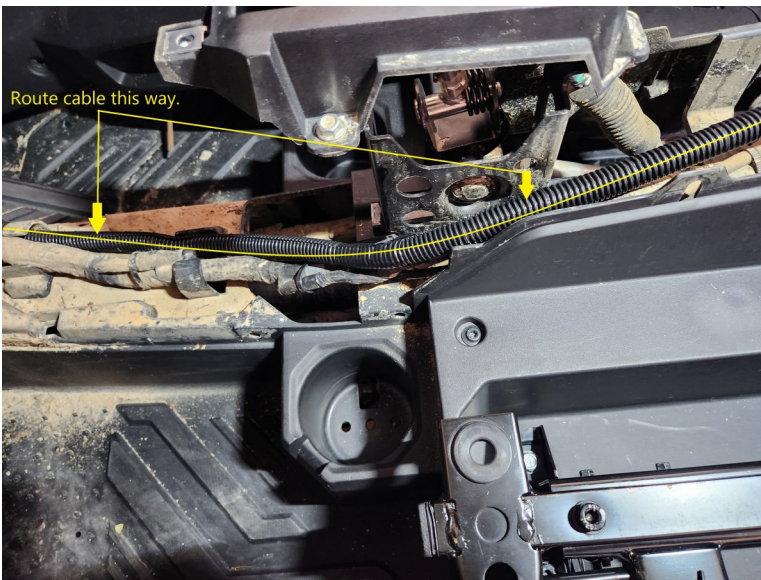


17. Your cables may be protected by a mesh cable sleeve rather than a corrugated split loom like in the picture. These pictures are of the 2nd prototype which I installed in my G2 950 Trail. The mesh cable sleeve is more flexible and isn't as thick so it'll make install a little easier.

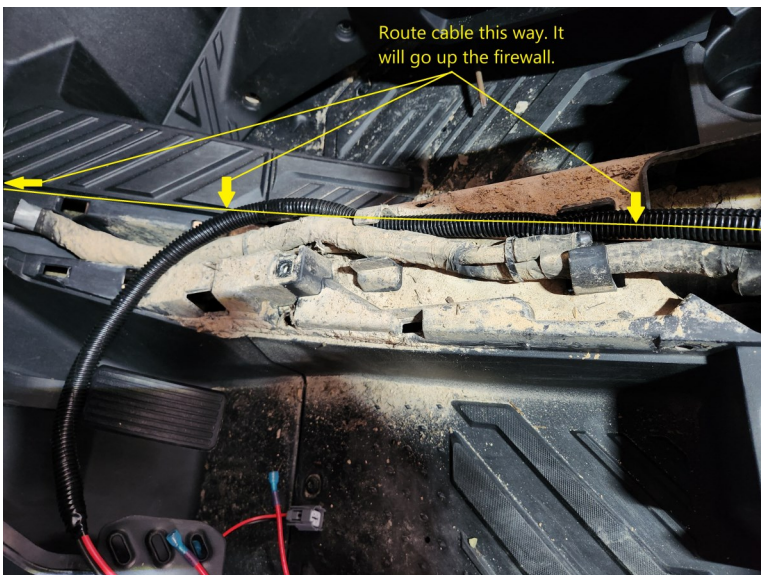
## SpeckHobbies 4 Circuit Fuse Box



18. Route the cable this way. Stay under the cable bundle behind the seat belt buckle. It'll help hold it down and prevent movement and rubbing. Once everything is installed, you'll go back and install the zip ties to secure everything.



19. Route the cable along the drivers side of the shift lever frame.

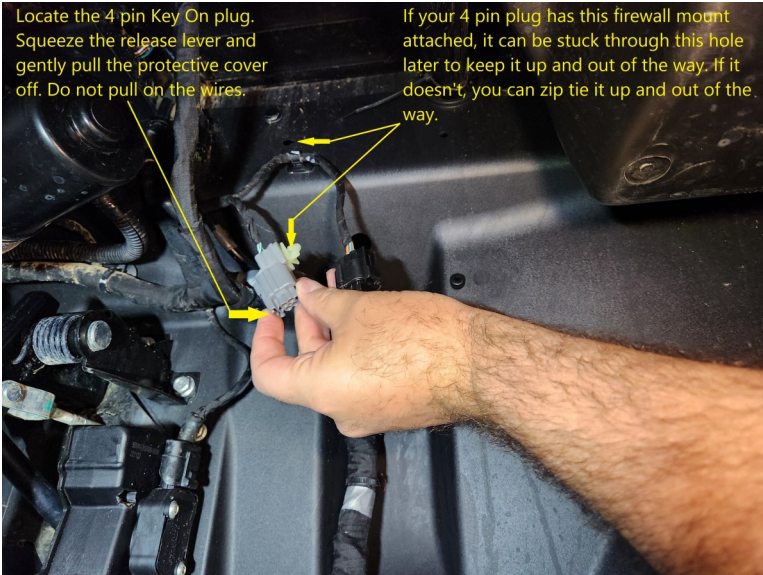


20. Route the cable forward along the other cables. It will continue up the firewall like the rest of the cables.

If you have trouble getting the center console back on during re-install, it's probably hanging up in this area because the new cable is in the way. I only threw a wrench once because of that. Just saying...

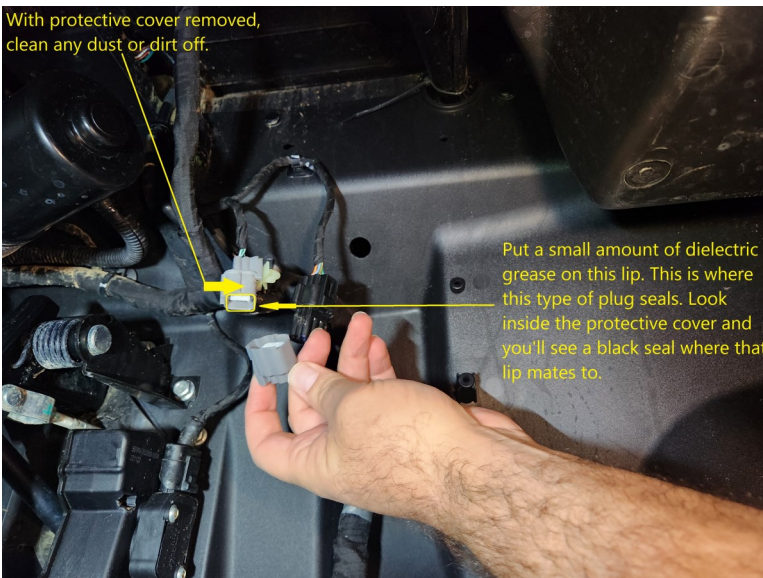


## SpeckHobbies 4 Circuit Fuse Box



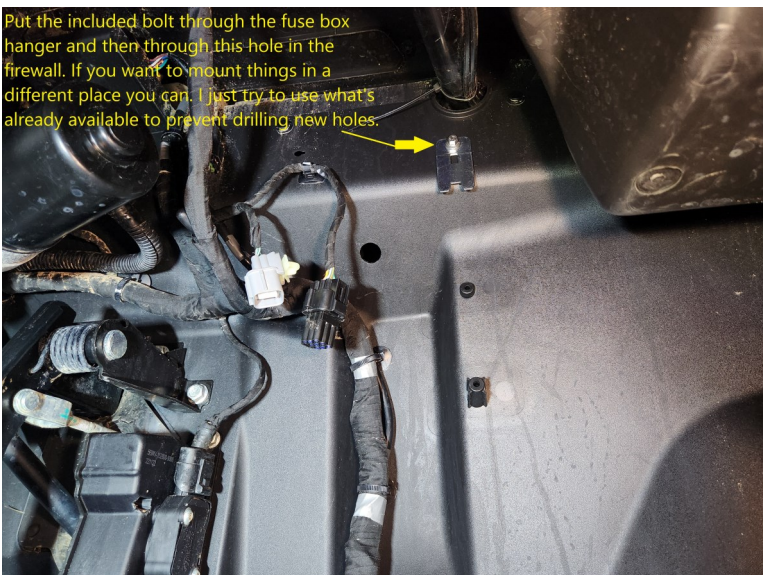
21. Press the release lever of the 4 pin plug. While holding the other half of the connector, pull the cover off. Do not pull on the wires.

If your 4 pin plug has a firewall mount attached to it, you can stick it in the hole above the wiring later to keep it secure and not flopping around. If it doesn't, just zip tie it to secure it.



22. Clean any dust or dirt off the 4 pin plug. Put your protective cover in the bottomless pit of the passenger side glove box. Put a small amount of dielectric grease on the lip of the plug. This is where this type of plug seals. Look inside the protective cover and you'll see a black seal where that lip mates to.

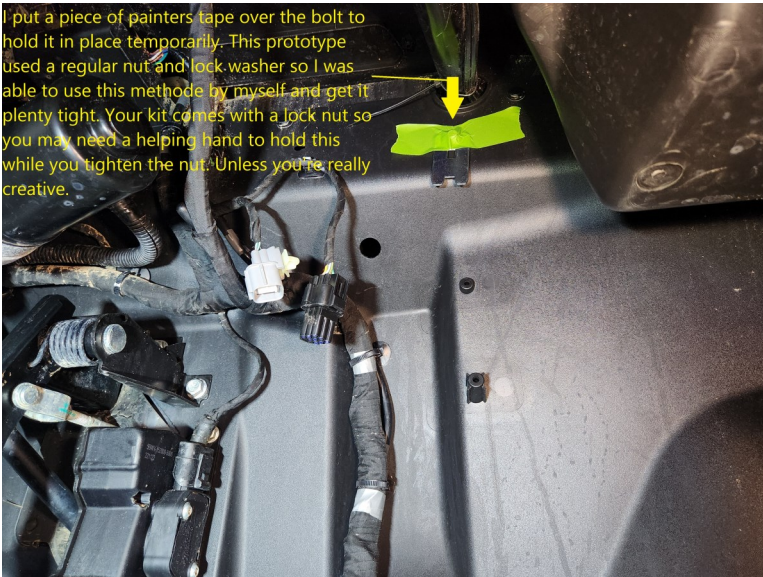
FYI: These 'protective covers' are merely the other half of the plugs with rubber seal plugs installed instead of wires. You can buy wire seals and pins and wire these up whichever way you need.



23. Put the included bolt through the fuse box hanger and then through this hole in the firewall. If you want to mount things in a different place you can. I just try to use what's already available to prevent drilling new holes.

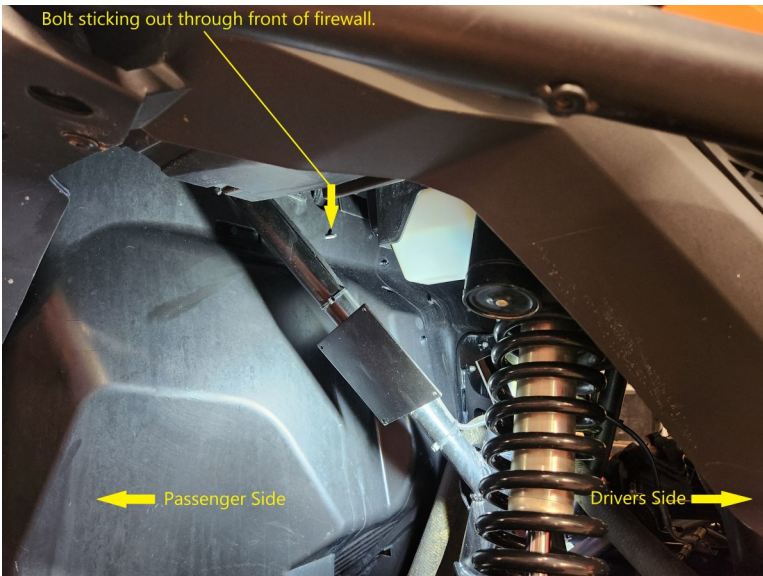
## SpeckHobbies 4 Circuit Fuse Box

I put a piece of painters tape over the bolt to hold it in place temporarily. This prototype used a regular nut and lock washer so I was able to use this method by myself and get it plenty tight. Your kit comes with a lock nut so you may need a helping hand to hold this while you tighten the nut. Unless you're really creative.



24. I put a piece of painters tape over the bolt to hold it in place. This prototype used a regular nut and lock washer so I was able to use this method by myself and get it plenty tight. Your kit comes with a Stainless Steel bolt and lock nut so you may need a helping hand to hold this while you tighten the lock nut. Unless you get really creative.

Bolt sticking out through front of firewall.

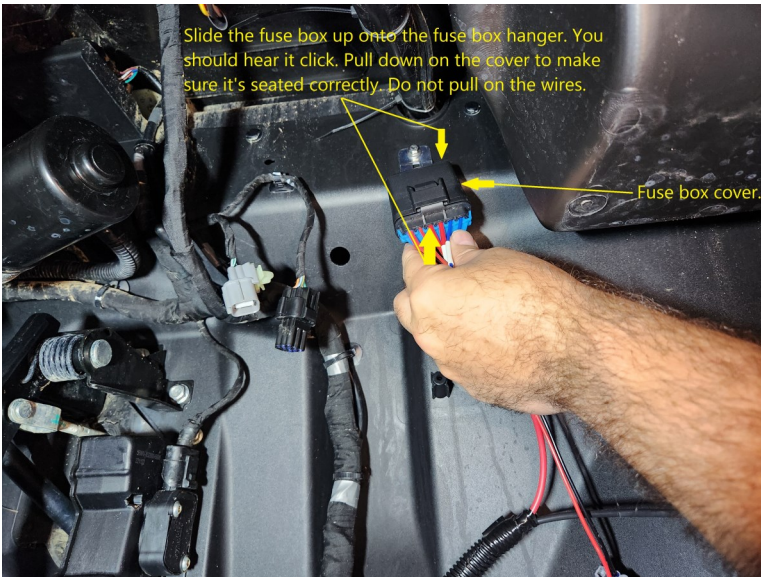


25. The bolt will stick out of the firewall up behind the coolant overflow.



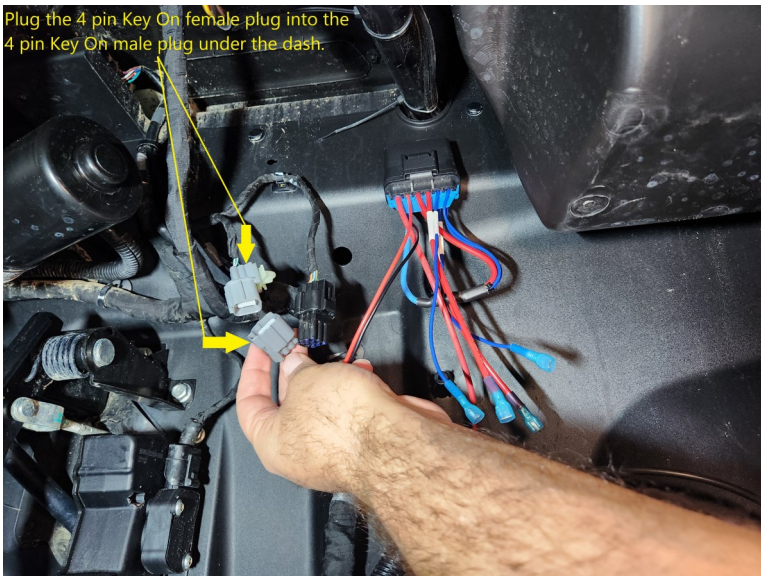
26. This shows the prototype's regular nut and lock washer. Your kit will come with a lock nut. Tighten the lock nut down but don't crush the plastic. You can add a flat washer to spread the load from the bolt & nut but the fuse box doesn't weight that much so I didn't bother including one.

## SpeckHobbies 4 Circuit Fuse Box

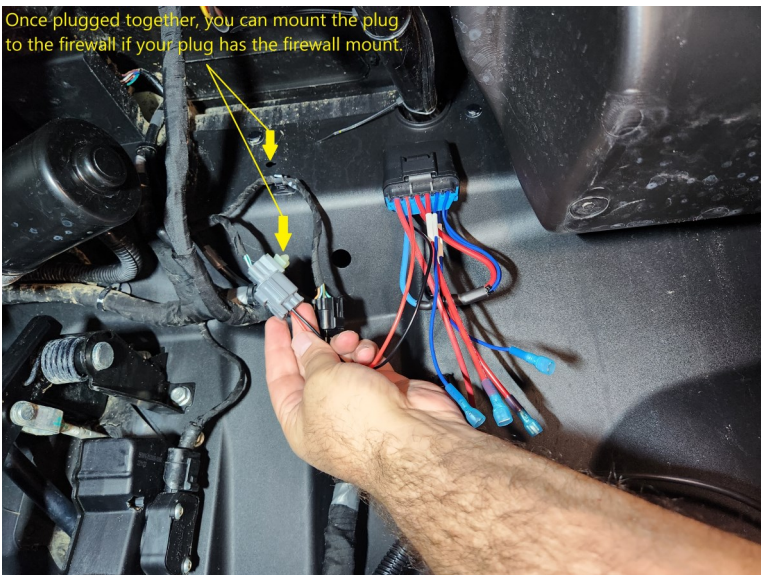


27. Slide the fuse box cover up onto the metal fuse box hanger. It should click once it's locked in place. Pull down on the cover (not the wires) to make sure it's secure.

**DO NOT PULL ON THE WIRES**



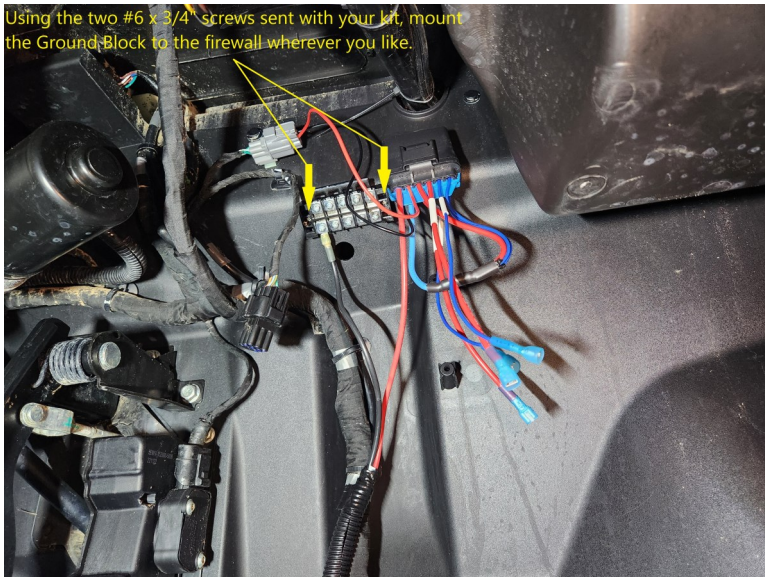
28. Plug the 4 pin Key On female plug into the 4 pin Key On male plug under the dash.



29. Once plugged together, you can mount the plug to the firewall if your plug has the firewall mount. If not, zip tie this connection up and out of way so it doesn't flop around or get caught on someone's foot or something.

## SpeckHobbies 4 Circuit Fuse Box

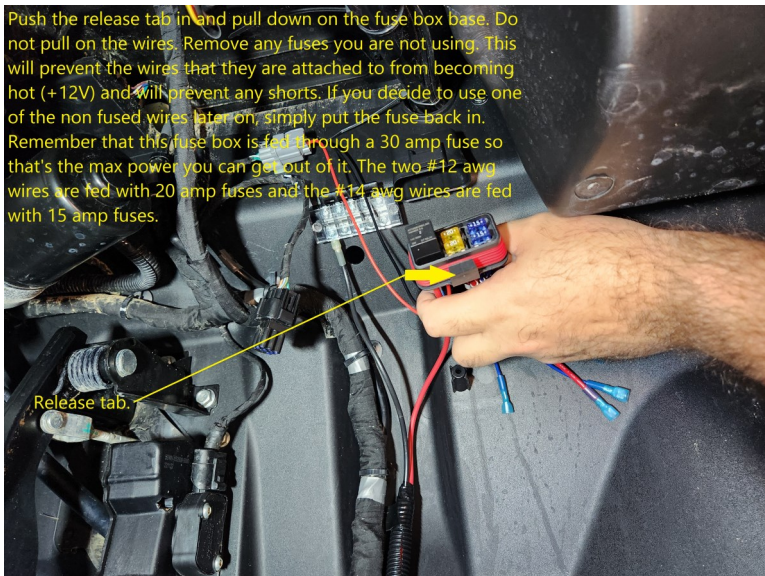
Using the two #6 x 3/4" screws sent with your kit, mount the Ground Block to the firewall wherever you like.



30. Using the two #6 x 3/4" Stainless Steel screws sent with your kit, mount the Ground Block to the firewall wherever you like.

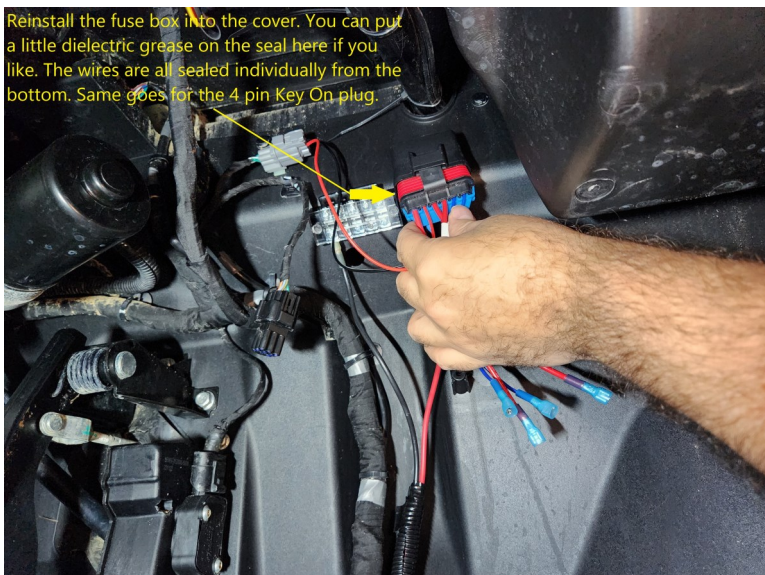
Remember that this fuse box is fed through a 30 amp main fuse @ the battery so that's the max amperage you can get out of it. The two #12 awg wires (RED) are fed with 20 amp fuses and the #14 awg wires (BLUE) are fed with 15 amp fuses.

Push the release tab in and pull down on the fuse box base. Do not pull on the wires. Remove any fuses you are not using. This will prevent the wires that they are attached to from becoming hot (+12V) and will prevent any shorts. If you decide to use one of the non fused wires later on, simply put the fuse back in. Remember that this fuse box is fed through a 30 amp fuse so that's the max power you can get out of it. The two #12 awg wires are fed with 20 amp fuses and the #14 awg wires are fed with 15 amp fuses.



31. Push the release tab in and pull down on the fuse box base. DO NOT PULL ON THE WIRES. Remove any fuses you are not using. This will prevent the wires that they are attached to from becoming hot (+12V) when the key is turned on, which will prevent any possible shorts. If you decide to use one of the non fused wires later on, simply put the fuse back in.

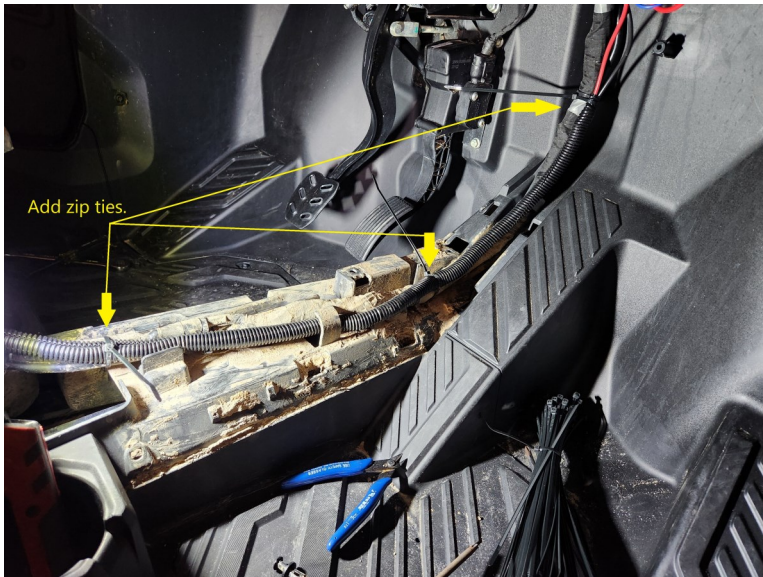
Reinstall the fuse box into the cover. You can put a little dielectric grease on the seal here if you like. The wires are all sealed individually from the bottom. Same goes for the 4 pin Key On plug.



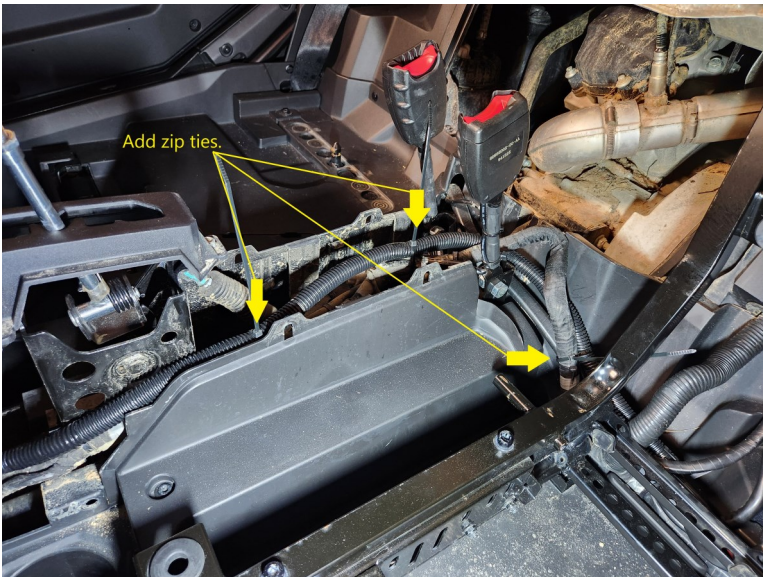
32. Reinstall the fuse box into the cover. You can put a little dielectric grease on the seal here if you like. The wires are all sealed individually from the bottom. Same goes for the 4 pin Key On plug.

The components of this kit are all rated at IP67. What that means is that they are dust proof and water proof @ 1 meter deep for up to 30 minutes.

## SpeckHobbies 4 Circuit Fuse Box



33. Once everything is mounted where you want it start backtracking and adding zip ties to secure the cable. You don't have to go overboard, just make sure it doesn't flop around or rub on anything.



34. Keep going back towards the battery until you feel comfortable with your results.

Now you have a place to run your new wiring to for Rock Lights, Light Bars, Amplifier or whatever that's only powered on when the key is on. And you didn't have to cut any existing wires or modify your G2 machine in a way which will void any warranty.

If you have any issues during install or with the fuse box's operation, email me at

[bamspeck@speckhobbies.com](mailto:bamspeck@speckhobbies.com)