



2016-2013 Toyota Tacoma Mirror mount rock lights

Installation Manual

Disclaimer: Read all instructions carefully and thoroughly before attempting install. Revv Engineering is not liable for any issues caused by installation on owners behalf.

Tools required for install:

- Flush cut pliers
- Needle nose pliers
- Precision hook and pick set
- Philips head screwdriver
- 8mm socket
- 10mm socket
- 2.5mm allen wrench
- 4mm allen wrench
- Electrical tape
- Trim removal tools
- Tray or bin to keep removed hardware in

Parts Included:

- Driver and passenger RE mirror mount housings
- (Qty. 2) Diode Dynamics rock lights and mounting hardware
- 1m Diode Dynamics extension harness
- 3m Diode Dynamics extension harness
- (Qty. 6) Zip ties

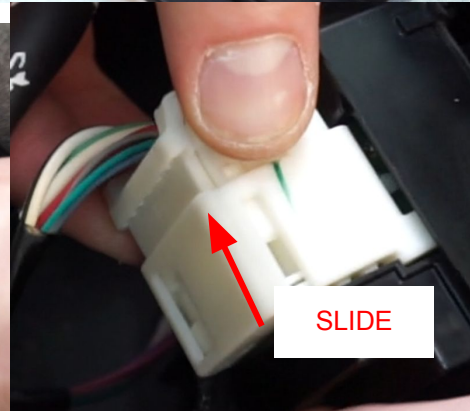
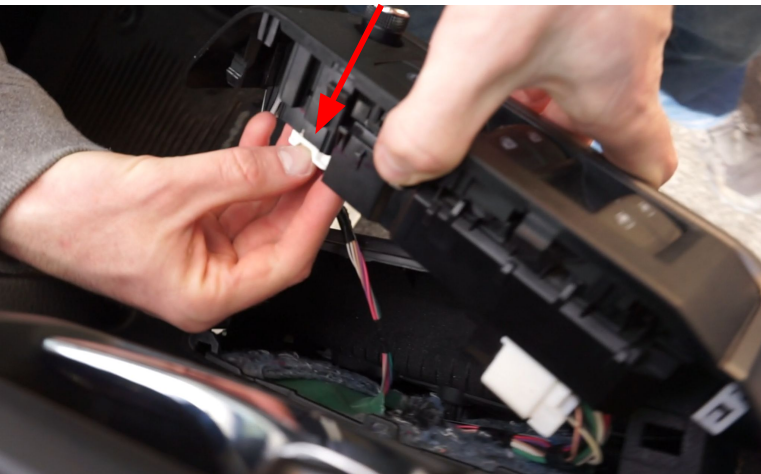
Parts included with *OPTIONAL* Revv Engineering plug and play kit:

- Plug and play harness
 - T-harness for cargo light switch
 - OE style switch (tall or short)
 - Add-a-circuit with fuse
 - Relay
 - Grounding eyelet
- Fuse box cover extension



STEP 1a: Remove the drivers side door panel

1. Before starting rock light installation, remove positive battery terminal.
2. Use trim removal tool to lift switch panel from door panel.
3. Remove (2) electrical connectors from switch panel.
 - a. The smaller plug is removed by pressing down on the tab and pulling straight down from the connector.
 - b. The larger plug is removed by pressing down on the tab and sliding the collar of the housing back before removing the plug straight out.



STEP 1b:

1. Use trim removal tool to remove door lever hardware cover.
2. Remove screw with phillips head screwdriver.



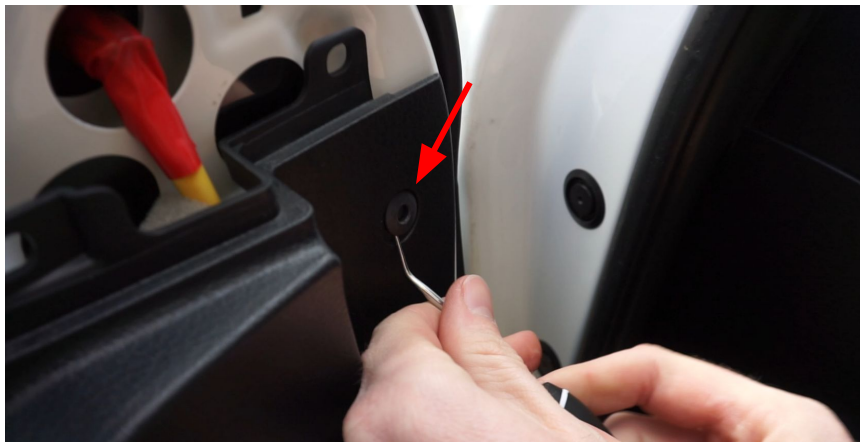
STEP 1c:

1. Remove felt insert from door grab handle.
2. Remove screw using phillips head screwdriver.



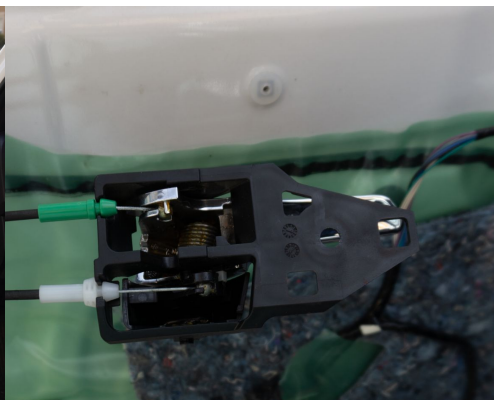
STEP 1d:

1. Remove interior mirror access panel.
 - a. Work fingers under plastic and pull straight out, or use trim tool to pry out.
 - b. (3) White plastic clips may stay in sheet metal of door when removing access panel. Remove these by hand and reinstall on the access panel. If you try to install the access panel while the clips are still in the sheet metal, they will pop out and fall into the door.
2. Remove plastic mounting hardware from top corner of door panel.
 - a. Press in on center button.
 - b. Use pick or trim tool to pop plastic piece out of door panel.



STEP 1e:

1. Using a trim tool and your fingers, work your way around the bottom and sides of your door panels while popping the panel off of the door.
2. Once all plastic clips have been popped out of place, the door panel must slide upwards and off of the window sill.
 - a. Before taking the panel all the way off the door, either the door lever will fall out or you may remove the cables from the back side of the lever.
3. Check to make sure all white plastic clips were removed with the door panel. If some stayed in the sheet metal of the door, remove them and place them back into the back side of the panel.
4. The corner window seal piece may have come off with the door panel. Put back in place on top of sheet metal frame if needed.



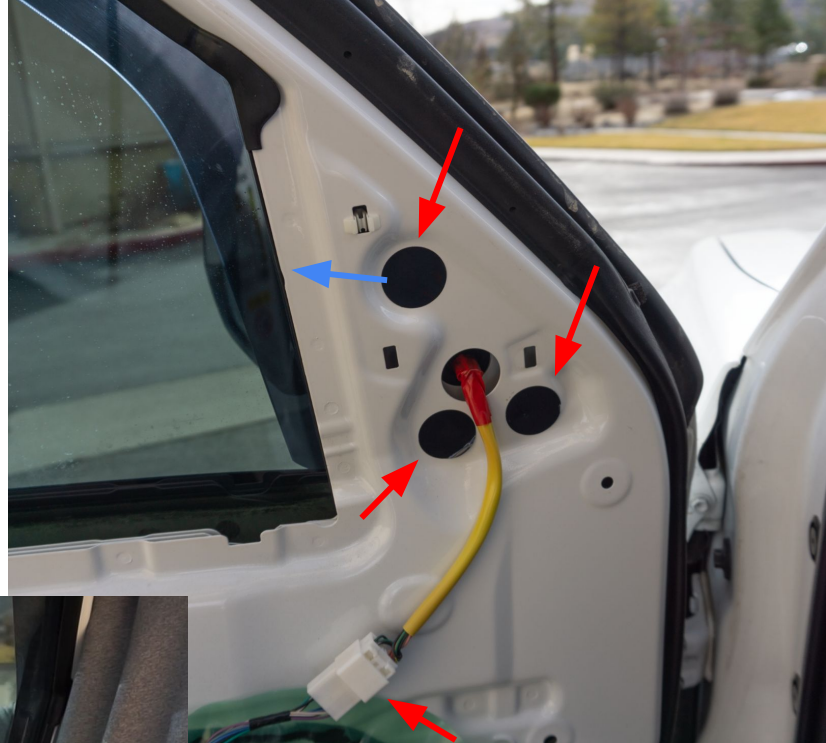
STEP 2: Remove interior trim pieces

1. Remove the floor mat if you have one. The OE mat has two quarter turn fasteners holding it in place.
2. Work your fingers or a trim removal tool around the inside edge of the step trim piece.
 - a. Pull straight up to pop out.
3. Remove the kick panel (after the side step panel)
 - a. First remove the nut in the front corner of the kick panel as shown by the red arrow below. It is at the top left corner of the "dead pedal".
 - b. Pull back at a 45* angle towards the inside of the truck to remove the kick panel.



STEP 3: Remove the mirror from the door

1. Remove the black sticker covering the three mirror mounting studs. You can stick the corner of these back onto the sheet metal for duration of the install.
2. Disconnect electrical plug coming from the mirror.
3. Use a 10mm socket to remove the three nuts. Don't let the mirror fall out of the opposite side. They are usually held in without the nuts, but be prepared to catch it just in case. Also be careful not to let the nuts drop into the door. Use the socket to carefully take the nut straight out.
4. Pull the mirror straight out. It may take a little force the first time to break the seal. Feed the electrical plug out of the hole in the door as you remove the mirror.



STEP 4: Prep the mirror to install the lights

1. With the mirror in the folded in position, remove the access cover from the bottom of the housing. This takes a bit of force the first time. You will be replacing this cover with your new rock light housing.
2. Cut the red electrical tape off the original mirror wiring.
3. Pull the inner cover off the mirror housing and slide down the yellow mirror wiring.



STEP 5: Install your rock lights into the RE housing

1. Grab your Diode Dynamics rock lights and remove the transparent cover. You can use a flat head screwdriver or your fingernails for this. Get one corner slightly out and work your way around the others until it easily comes off.
2. Install the rock light into the RE housing by feeding the electrical plug through the round hole on the side and pushing the light all the way into the housing.
 - a. Remove the rubber cap on the front side of the light.
 - b. Using the provided light hardware, install the screw and smaller washer through the front of the light, and the larger washer and nylock onto the back side. Tighten down snug with an 8mm socket and a 4mm allen wrench.
 - c. Reinstall the rubber cap over the screw.
3. Reinstall the transparent cover onto the rock light. Make sure all 4 corners click in place!



STEP 6: Install RE rocklight housing into mirror housing

1. Feed the rocklight wire through the mirror housing alongside the original yellow wiring. It may be a little tight getting through the same hole. Squish down the yellow wires insulation and push the rock light connector through the same hole.
 - a. Make sure you have the correct housing for the mirror you are working on. The shorter rock light housing goes on the drivers side.
2. Insert the rocklight housing into the mirror housing.
 - a. Loosen the allen screw in the side of the rocklight housing to where it is flush with the end of the nylock. DO NOT fully remove.
 - b. Dip in the inside corner first and align the inside rocklight housing tabs (shown with red arrow) with the holes in the mirror housing.
 - c. Make sure the four nipples (shown with blue arrow) are behind/under the mirror housing on the front side while dipping in the outer side.
 - d. Make sure the side screw is pulled all the way towards the outside and the nylock is sitting in its recessed hole.
 - e. Dip in the outside edge and push in with force to snap into place.
 - f. With the housing fully seated in place, tighten the allen screw in the side of the housing. Keep a light amount force on the screw outward while you are tightening to keep the nylock on the back side captured in it's recessed hole.



STEP 7: Finish mirror housing modifications and reinstall

1. Pull the factory yellow wire and new rock light wire tight (no slack) from the mirror housing.
2. Insert the rock light wire connector through the same hole in the inner mirror cover. This one is much tighter than the first and does take some force. Get the connector through as much as you can by hand, then we use needle nose pliers to push the connector through the rest of the way. DO NOT pinch the wire while doing this.
3. Slide the inner mirror cover down while pulling both wires snug. The cover should slightly snap into place on the mirror housing.
4. Wrap electrical tape around wire pass through similar to original red tape.
5. Reinstall the mirror.
 - a. Slide the mirror back onto the door and tighten the (3) 10mm nuts.
 - b. Place the (3) black stickers back over the nut access holes as they were originally.
 - c. Plug the yellow wire connector back in to its original location.



STEP 8a: Install the drivers side extension wire through the door jam

1. Remove three electrical plugs under the driver kick panel coming from door. Use tab on side of connectors to remove from their socket. Reference step 9c for a photo connectors installed in socket.
2. Remove rubber door jam boot from both sides (door side and cab side). This takes some patience but you are able to do this by hand.
 - a. Starting on the cab side, pull out one side of the boot, then work your way around. When you get the rubber out of the cab side, you can feed the connectors one by one through the hole in the cab and get them into the door jam opening.
 - b. Remove boot from door side next. Be careful with existing wires.
3. Cut off original tape around the cab side of the boot to expose the wires.
4. Feed the male side of the 1 meter extension wire from the outside of the boot (door side) to the inside (cab side). Do this by scrunching up the boot to as short as possible, and push the connector through. Be very careful not to



STEP 8b: Install the drivers side extension wire through the door jam

1. Pull back the top right corner of the plastic door vapor liner to gain access to the inside of the door. Be careful not to tear plastic liner.
2. Feed the female side of the 1 meter extension wire through the hole in the door jam entering the door. Follow next to the original door wiring and then the original mirror wiring. (Do not accidentally put the wire on the wrong side of the window regulator bracket!)
3. Connect the extension wire to the rock light wire coming through the top of the door.
4. Leave a very small loop at the rock light connection for strain relief.
5. Pull the rest of the rock light extension wire tight all the way through the cab side of the door jam boot. Zip tie the extension wire to the original door wiring to hold in place. Do not pull zip tie so tight that it damages the factory wiring.
6. Wrap electrical tape around the cab side of the rubber boot, similar to how it was originally. Be aware of rotation of the boot around the wiring before you tape it. Incorrect rotation will make installing the electrical plugs difficult.
7. Reinsert the door jam wiring through the cab and reinstall the door jam boot into both sides. Reinstall 3 factory connectors in their sockets.



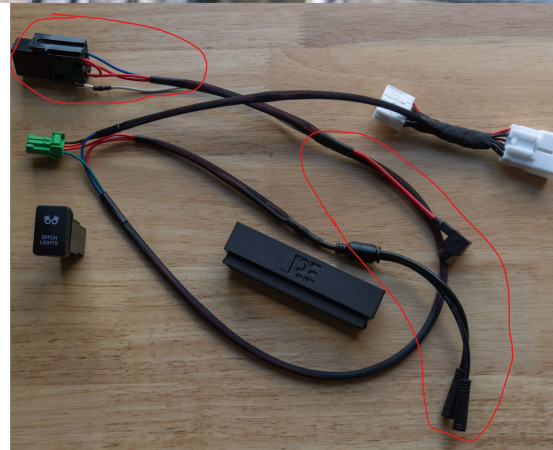
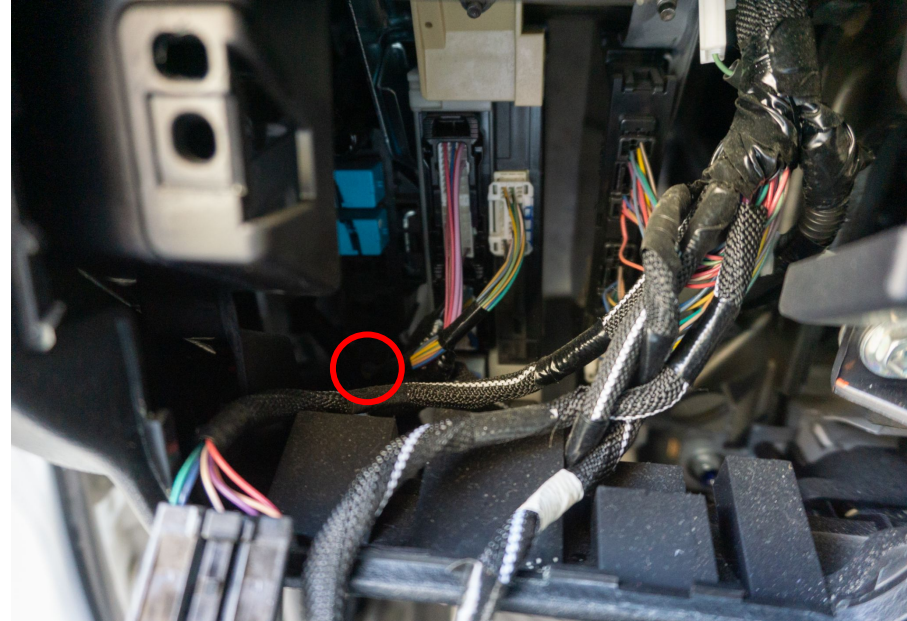
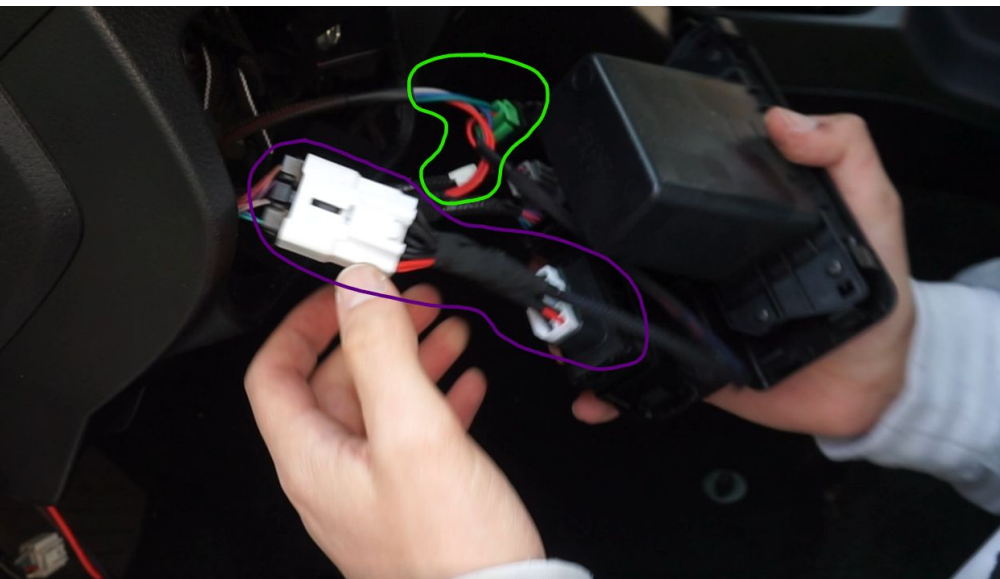
STEP 9a: Install plug and play harness

1. Using a pick or trim tool, pull at the top corners of the switch panel until they pull out, then pull on the bottom to remove.
2. Pop factory blank out of switch panel (may vary depending on trim style). Reinsert tall or short switch chosen to match blank style.
3. Unplug cargo light switch connector.



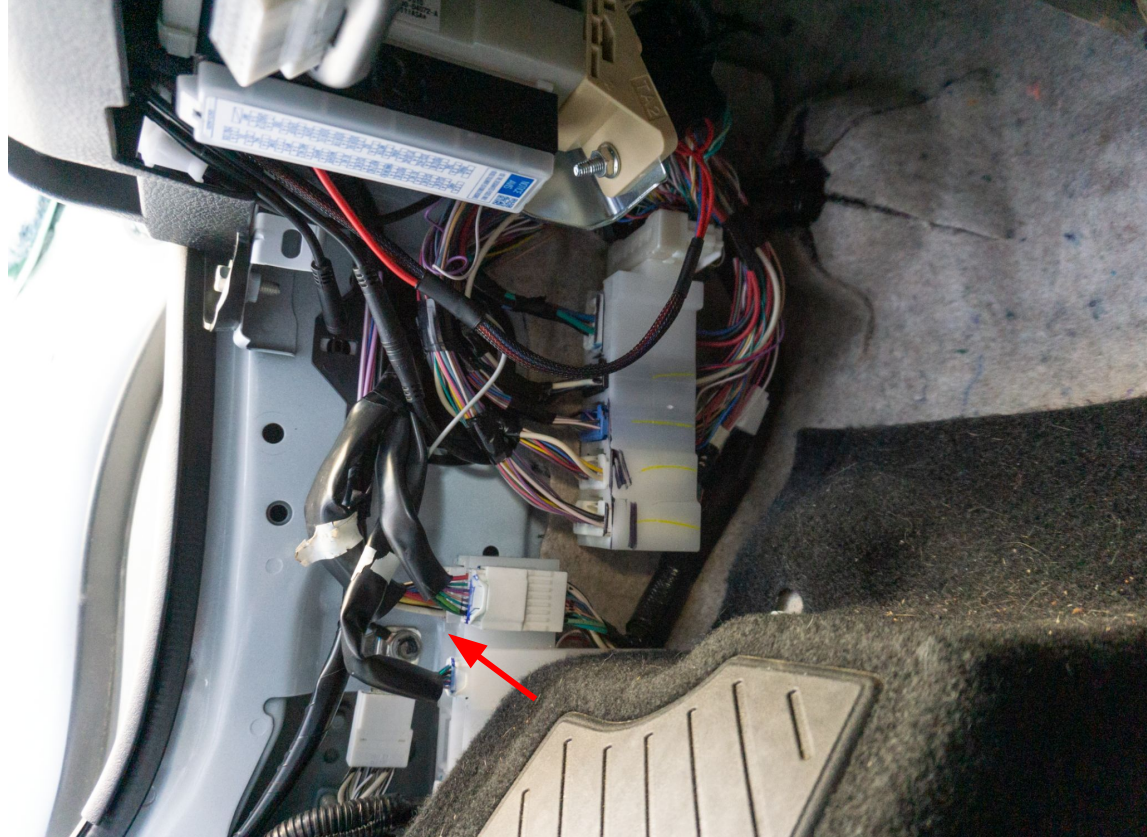
STEP 9b: Install plug and play harness

1. Install male side of T-harness into cargo light switch connector and reinsert factory male wiring connector into female side of T-harness.
2. Insert green connector into back of new OE style switch.
3. Insert relay/add-a-circuit/grounding wire leg and splitter leg down into dash opening under electronic modules. Location shown with a red circle on the image to the right.



STEP 9c: Install plug and play harness

1. With the plug and play harness wires now in the kick panel area, install the grounding wire.
 - a. The grounding eyelet is installed under the factory grounding bolt (shown with a red arrow) with a 10mm socket.
2. Remove the factory fuse box cover. Pulling down on the side towards the rear of the vehicle, then swingout down and pulling off the front side. (You may need to get a pick under the side towards the rear of the vehicle and pry outward to remove it off the tab, they are on there very tight!)
3. Remove the 20amp sunroof fuse (you have one even if you don't have a sunroof)
 - a. There's a fuse removal tool in the fusebox in the engine bay.
4. Insert the 20 amp sunroof fuse into the lower slot of the add-a-circuit, and insert the add-a-circuit into the sunroof fuse slot with the wire aiming towards the drivers side of the vehicle.
5. Install the new fuse box cover extension onto the fuse box. The add-a-fuse wire should pass through the opening in the side of the cover extension. Install the fuse box cover onto the extension.
6. Insert the drivers side rock light extension wire into one side of the splitter (doesn't matter which one).
7. Place relay along factory wiring and zip tie in place (it is not hard mounted).
8. Zip tie all wiring up nicely with factory wiring.



STEP 9d: Install plug and play harness

1. Reattach positive battery cable and test lighting functions.
 - a. With OE style switch off
 - i. When door is open, low power light should be on.
 - ii. When door is closed, lights should be off. (may have 30 second delay after closing door)
 - iii. When cargo light switch is on, low power light should be on.
 - b. With OE style switch is on, high power light should be on at all times.
 - c. If you have issues, or something appears to be incorrect, do not hesitate to reach out to info@revv-engineering.com we will be happy to assist you.
2. Remove positive battery cable before starting reassembly of driver door and footwell trim panels.
3. Reinstall driver door panel in reverse order of removal.



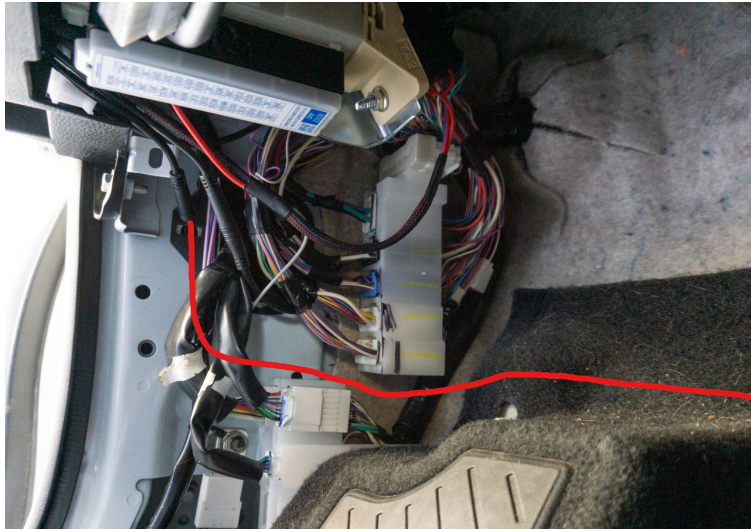
STEP 10a: Install passenger side rock lights and wiring

1. Passenger side installation is exactly the same as the drivers side with a few variations. IT IS EASIER THAN THE DRIVERS SIDE.
 - a. There are only two connectors to disconnect in the passenger footwell under the kick panel. (shown with red arrows). Which means fewer wires, so it is easier to route the extension connector through the door jam boot.
 - b. The passenger side extension wire travels through the door, under both footwells, and connects into the splitter from the plug and play kit.



STEP 10b: Install passenger side rock lights and wiring

1. When the passenger side extension wire has been routed from the mirror, through the door, through the door jam boot, it must be routed to the drivers side kick panel.
 - a. From the passenger side kick panel, we have routed it under the factory carpet in the front of the foot wells and over the transmission tunnel (still under the carpet). The front of the carpet pulls up from the velcro it is attached to and you can tuck the wire just below the velcro attachment points.
 - b. You may route this extension wire differently if you would prefer to zip tie it along the bottom side of the dash, however under the carpet is the easiest.
2. When you get the passenger side extension wire into the driver kick panel area, you may plug it into the plug and play harness splitter.



STEP 11: Final reassembly

1. After you have finished installing the rock lights wiring and plug and play harness kit, you may finish re-assembling your door panels and interior trim panels.
2. Enjoy your rock lights and thank you for your purchase!

