



# RAVEK

**POLARIS GENERAL 2021+  
PLUG & PLAY AUTO-  
CANCEL UTV TURN SIGNAL KIT**

**WITH WHITE RUNNING LIGHTS**



## INSTRUCTION MANUAL



# RAVEK

**POLARIS GENERAL 2021+**

***PLUG & PLAY AUTO-  
CANCEL UTV TURN SIGNAL KIT***

**WITH WHITE RUNNING LIGHTS**

Part #: 64-700

Fitment: POLARIS GENERAL 2021+

## **PARTS INCLUDED:**

- Turn Signal Controller (1x)
- Switchback Apex Light (2x)
- Taillight Harness (2x)
- Power Harness (1x)
- Horn (1x)
- Turn Signal Rocker Switch (1x)
- Horn/Hazards Rocker Switch (1x)
- Turn Signal Rocker Switch Extension Harness (1x)
- Horn/Hazards Rocker Switch Extension Harness (1x)
- Right Taillight Extension Harness (1x)
- Left Taillight Extension Harness (1x)
- Right Turn Signal Extension Harness (1x)
- Left Turn Signal Extension Harness (1x)
- Right Dash Indicator Harness (1x)
- Left Dash Indicator Harness (1x)
- Dielectric Grease (1x)
- Heat Shrink (1x)
- Wire Loom (1x)
- Roll Bar Adapter (2x)
- Strap (2x)
- Zip Tie (20x)
- Double Sided Tape (2x)
- M6 Flat Washer (2x)
- M5 x 0.8 x 6mm Allen Screw (4x)
- M6 x 1.0 x 10mm Allen Cap Screw (2x)
- Adhesive Promoter Wipe (3x)
- Rubbing Alcohol Wipe (3x)
- License Plate Extension Harness (1x)

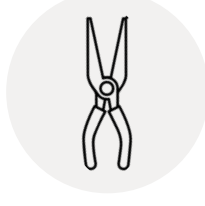
## TOOLS NEEDED: *\*OPTIONAL*



*Side Cutter Pliers*



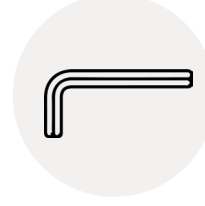
*Push Pin Pliers*



*Needle Nose Pliers*



*3mm Allen Wrench*



*4mm Allen Wrench*



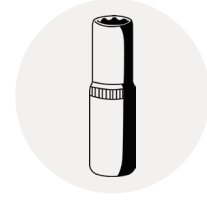
*Pick*



*Small Flathead  
Screwdriver*



*Lighter/Heat Gun*



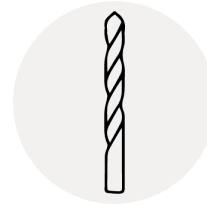
*13mm Deep  
Well Socket*



*Ratchet*



*1/4" drill bit\**



*11/32" drill bit\**



*Drill\**



*Wire Fish\**

## INSTALL VIDEO TUTORIAL

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TO ACCESS THE  
VIDEO TUTORIAL.**

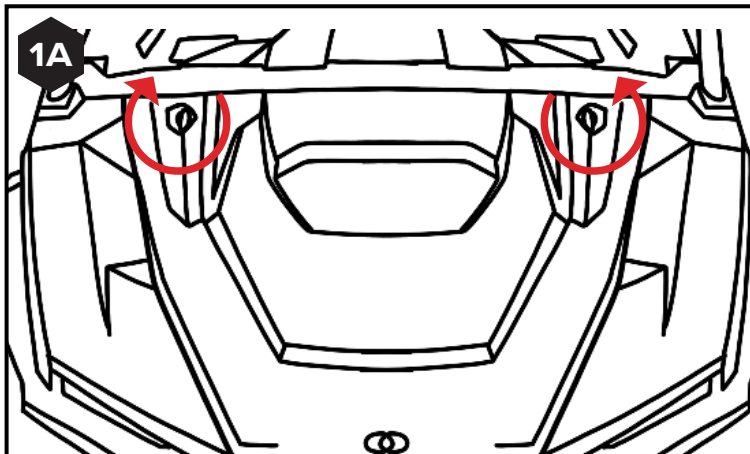


### *General Notes:*

- *Throughout this process, be sure to keep track of any screws or fasteners you remove and reinstall them in the exact location.*
- *Dielectric grease is provided, and you may use it for added protection.*

i

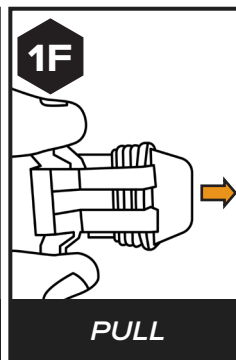
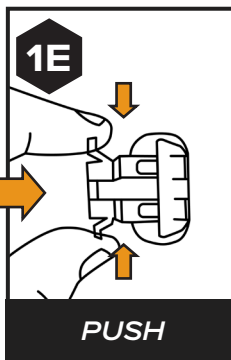
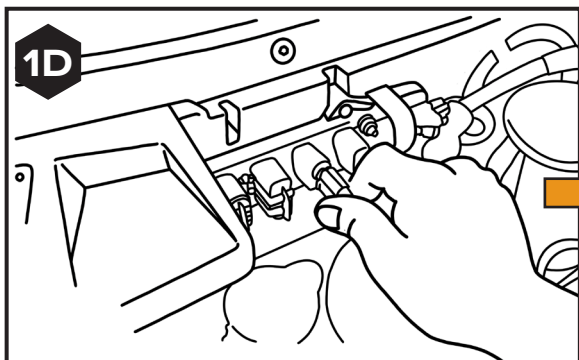
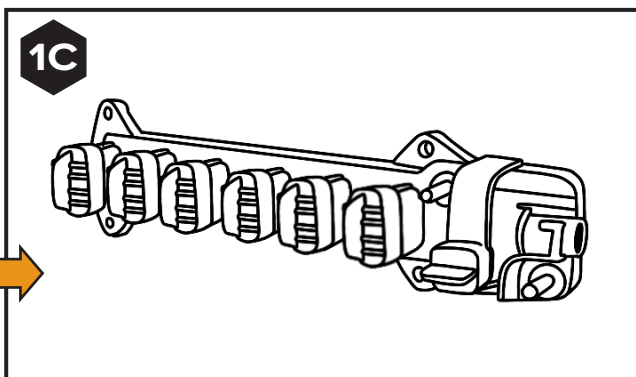
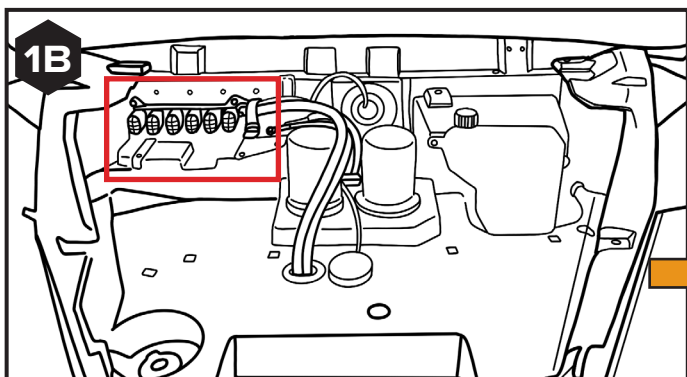
Remove the center hood panel on your General by turning the latches a quarter turn each and lift the hood away from the SxS. [SEE FIGURE 1A]



ii

Locate the Bus Bar underneath the panel removed in step 1i. Remove one dummy plug on any of the available ports by releasing the retaining clips on the plugs then pulling them out. [SEE FIGURES 1B-1F]

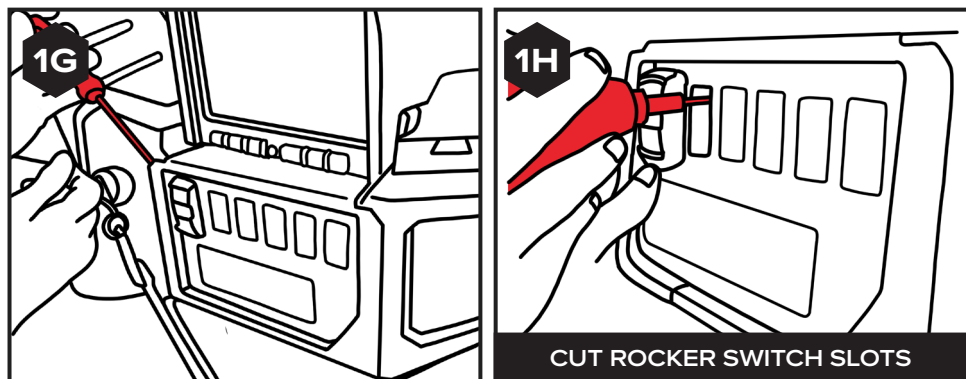
**NOTE:** If you do not have any Bus Bar ports open, you can add additional ports using the RAVEK Polaris Party Bus, sold separately (RAVEK Part # 64-311).



iii

Open the switch panel by carefully prying on the panel using a **FLATHEAD SCREW DRIVER** to release the clips holding it in place. Leave panel hanging and continue with the install. [SEE FIGURE 1G]

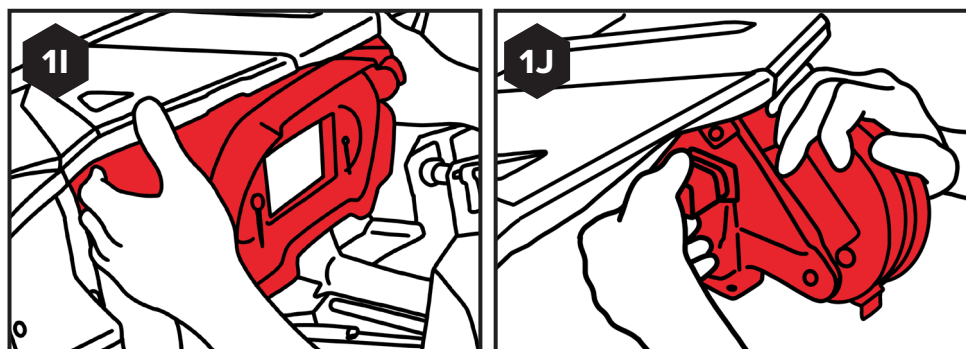
**NOTE:** Cut two available rocker switch slots open using a knife where you'll be installing the rocker switches on. [SEE FIGURE 1H]



iv

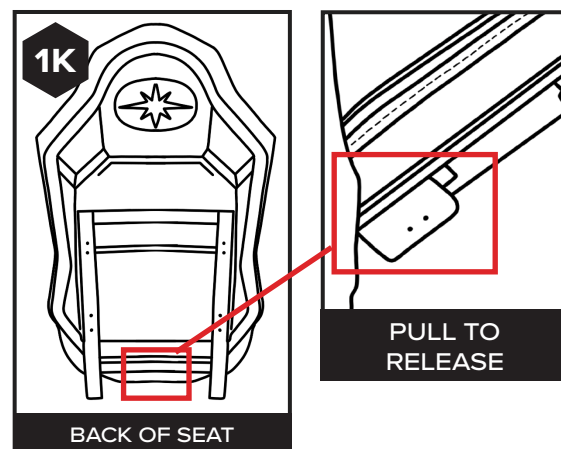
Tilt your steering wheel to the lowest position. Remove the bezel cover by pulling it out and up.

Remove the gauge cluster from the machine using a **10MM DEEP WELL SOCKET** and **RATCHET** to remove the two bolts behind the gauge cluster. Unplug the connector in the backside of the gauge cluster before setting aside. [SEE FIGURES 1I & 1J]



v

Remove the seats of the General by pulling on the lever at the bottom rear of the seat to release the seat. Once the seats have been released, remove and set seats aside. [SEE FIGURE 1K]



vi

Pull up on both cup holders on your machine to remove. [SEE FIGURE 1L]

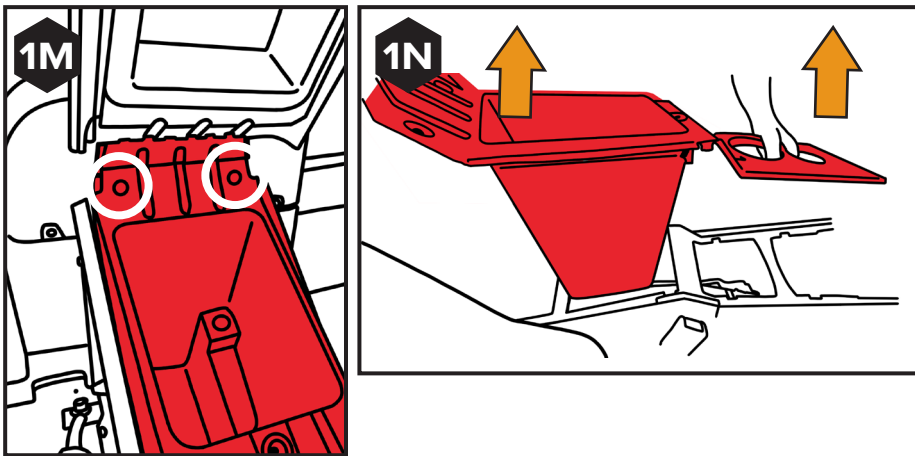
**NOTE:** If installing on a four seater General also remove the cup holders on the rear.



vii

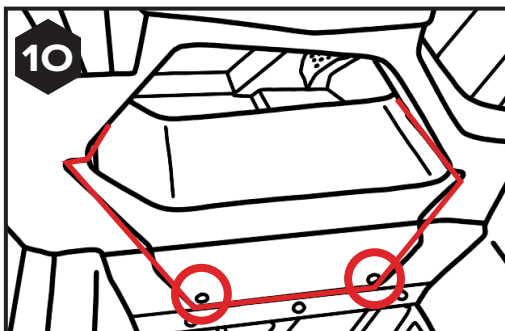
If installing the turn signal kit on a four seater General use PUSH PIN PLIERS to remove the two push pins by the rear center console.

Once push pins have been removed, carefully lift on the panel to access the undercarriage of the vehicle where you'll be routing your wires. [SEE FIGURES 1M & 1N]



viii

Remove the two push pins holding the lower front center tunnel using PUSH PIN PLIERS. [SEE FIGURE 1O]

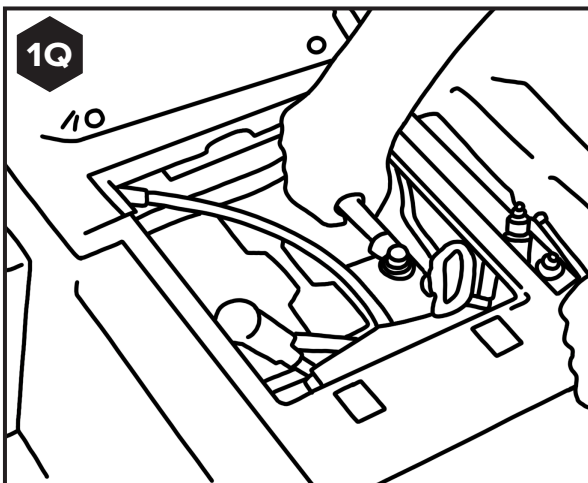
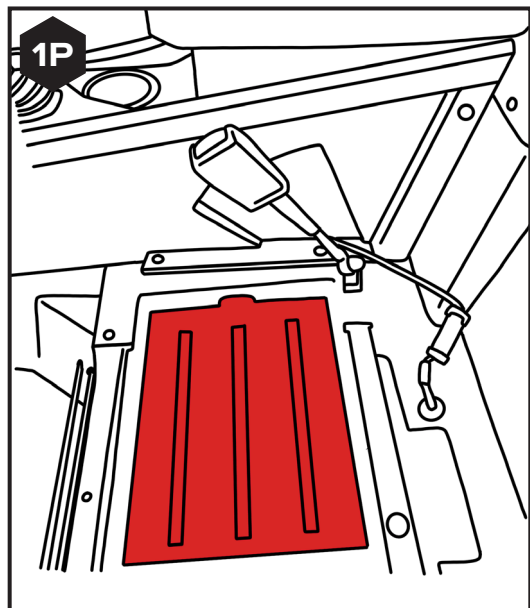




ix

Remove the battery cover panel and disconnect your battery under the General's driver seat (2-Seat Models) or driver's side passenger seat (4-Seat Models) using a 13MM DEEP WELL SOCKET and a RATCHET. [SEE FIGURES 1P & 1Q].

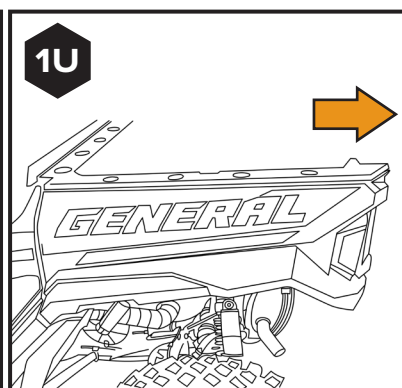
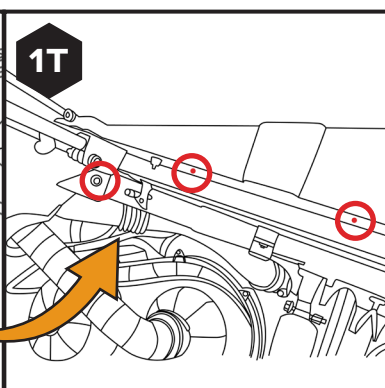
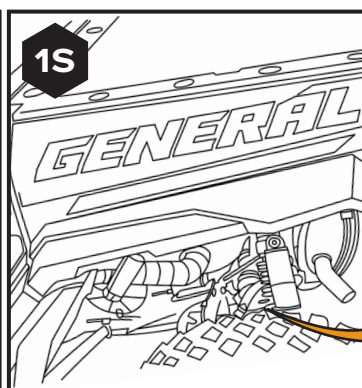
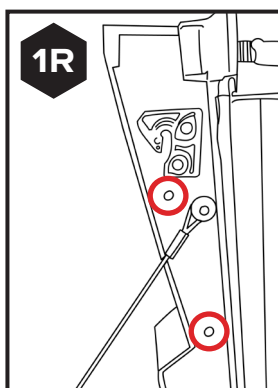
**NOTE:** Disconnect the negative battery terminal first to prevent arcing. Make sure cables don't touch each other or any metal surfaces when disconnected.



x

Open the tailgate and remove the side panel by removing the five screws highlighted in the figures below using a T-30 TORX.

Once the screws are removed, remove the panel by sliding it towards the rear and out. Unplug the OEM connector from your General taillights and set them aside. [SEE FIGURES 1R-1U]

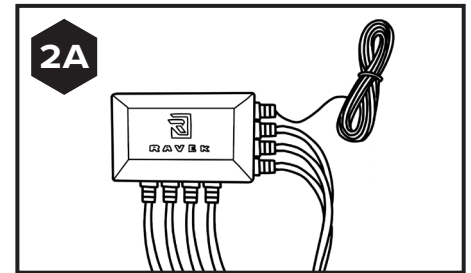


## 2 INSTALL THE WIRING TO THE TURN SIGNAL CONTROLLER

i

Grab your Turn Signal controller and set it where you'll permanently mount it in a future step. [SEE FIGURE 2A]

**NOTE:** We recommend mounting your controller under the center hood panel removed in step 1i.



ii

Plug all of your extension harnesses except for Horn/Hazards and Turn Signal harness into the controller's corresponding connectors. Even though all the connectors we engineered are waterproof, we recommend using a small dab of dielectric grease to each connection point. [SEE DIAGRAM A FOR AN OVERVIEW OF YOUR CONNECTIONS]

**NOTE:** All your extension harnesses have labeled heat shrink, allowing you to determine where each extension harness plugs into. [SEE DIAGRAM A]

**NOTE:** The Brake Input red wire does not have an extension harness to be plugged; this will be routed directly to the driver's side taillight harness in an upcoming step.

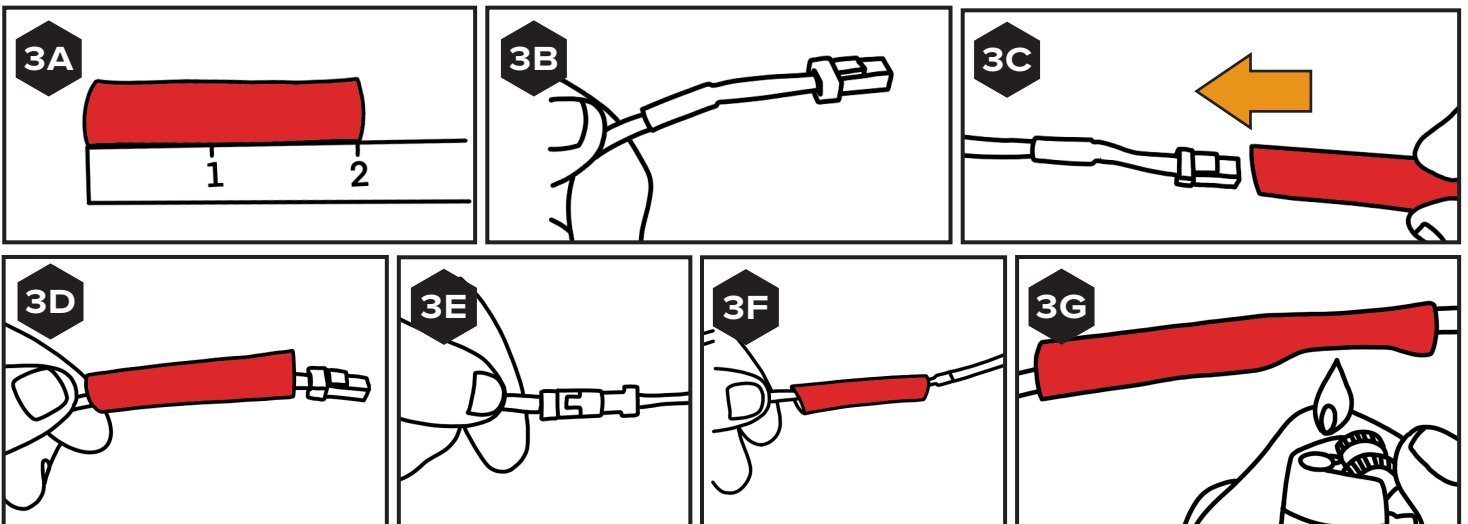
## 3 HEAT SHRINK YOUR CONNECTIONS

i

As you make plug & play connections, use the heat shrink tubing, provided to protect your connections from dirt on the trails.

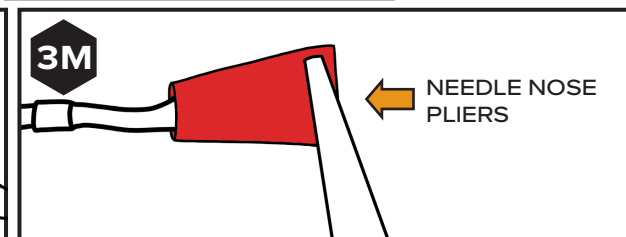
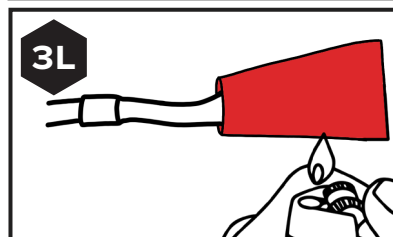
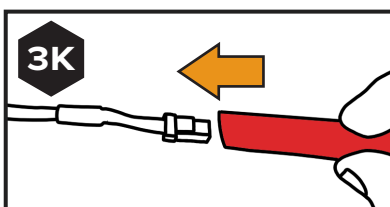
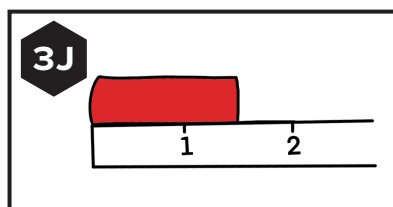
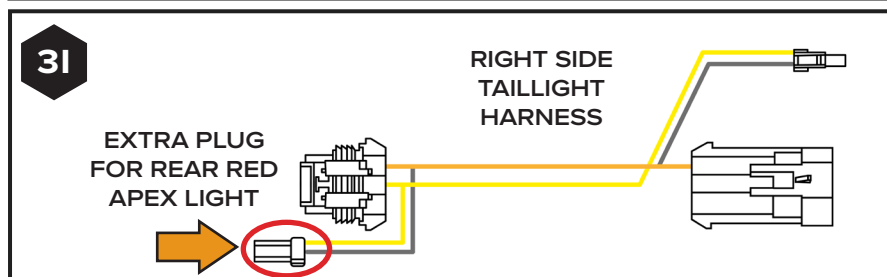
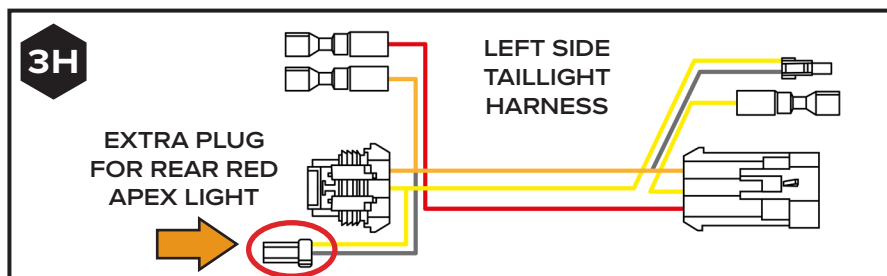
Go over the connection points you make and cut 2" of heat shrink for each. Use a lighter or heat gun to shrink the tubing. [SEE FIGURES 3A – 3G]

### HEAT SHRINK CONNECTIONS





If you won't use the extra Taillight Harness connectors (mentioned in step 5) cut 1.5" piece of heat shrink tubing, slide it over the connector and heat shrink it using a lighter or heat gun. Use needle nose pliers to pinch the end of the extra heat shrink. This will act as a cap to protect the connectors from getting dirt inside. [SEE FIGURES 3H – 3M]

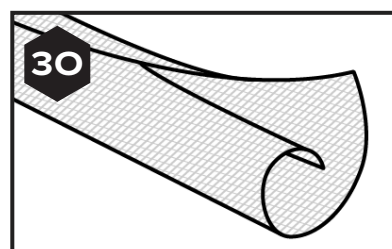
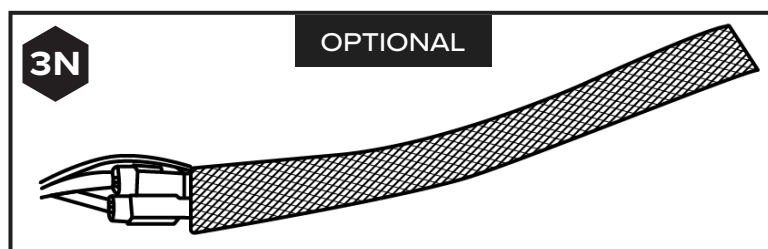


ii

**This step is optional as this will help with maintaining a clean OEM look. Not required for protection of the wiring.**

Grab your Brake Input wire and route it through the wire loom (supplied with the kit).

[SEE FIGURE 3N & 3O]



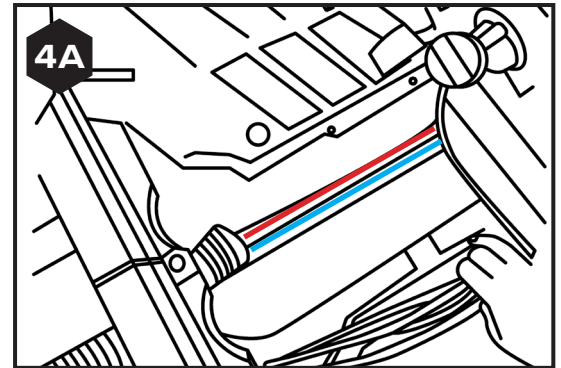
## 4

## ROUTE THE REAR LIGHT WIRING

### i

Grab your Rear Left extension, Rear Right extension, and Brake Input wire.

Route your LEFT REAR and Brake Input wires through the center console panels removed in step 1F to the left taillight and route your RIGHT REAR wire through the center console to the right taillight. [SEE FIGURE 4A]



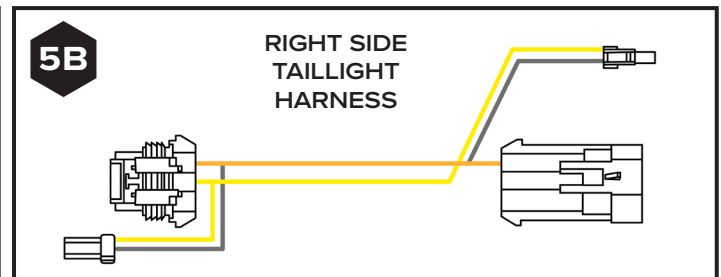
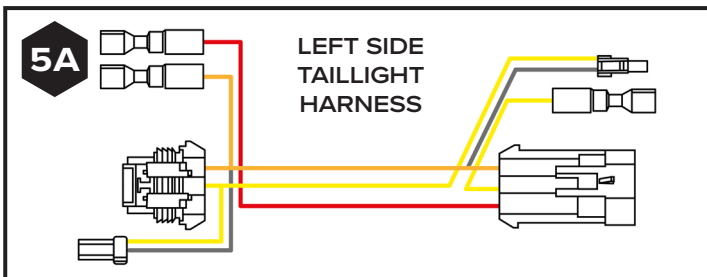
## 5

## PLUG IN YOUR REAR LIGHTS WIRING

### i

With the rear wiring coming out of the controller and routed up to the taillights, you are ready to install your taillight harnesses, included with the kit. [SEE FIGURES 5A & 5B]

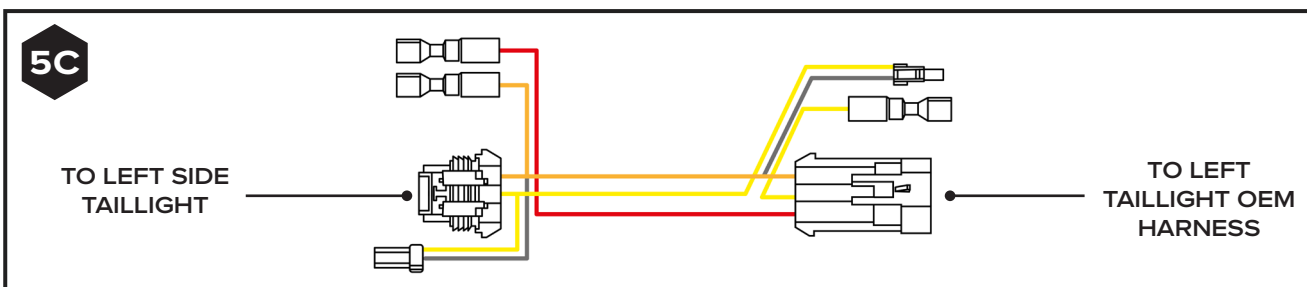
**NOTE:** The left side Taillight Harness is easily identifiable as the Taillight harness with the most connectors coming from it.



### ii

Unplug the OEM connector from the left Taillight and plug in the left Taillight harnesses provided with the kit in line with the OEM connector and to the Taillight. [SEE FIGURE 5C]

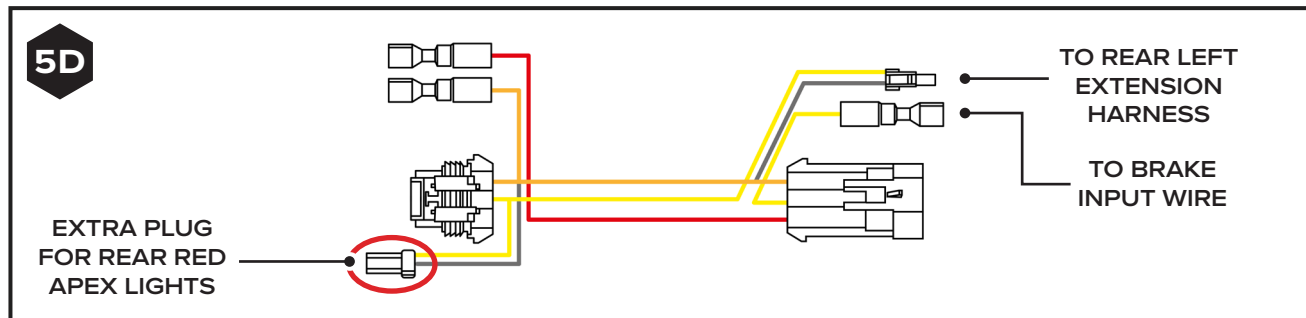
**NOTE:** The left side Taillight Harness is easily identifiable as the Taillight harness with the most connectors coming from it.



iii

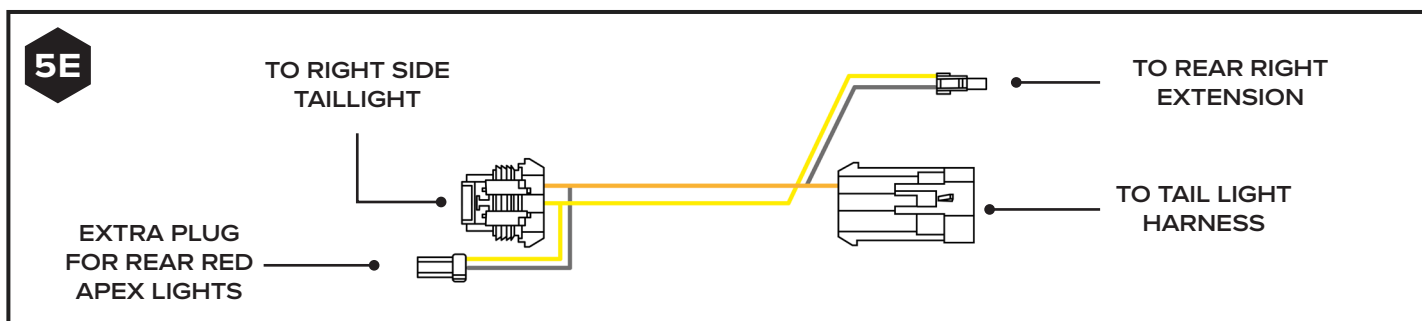
Plug your REAR LEFT extension harness into the corresponding labeled connector from the left Taillight harness, and plug your Brake Input wire to the connector labeled on the left Taillight connector. [SEE FIGURE 5D]

**NOTE:** Extra plug on taillight harness provided to easily add RAVEK Rear Running & Brake Apex Lights to your General (RAVEK Part #64-702) , these will add running light, brake light, and turn signal functionality to your machine.



iv

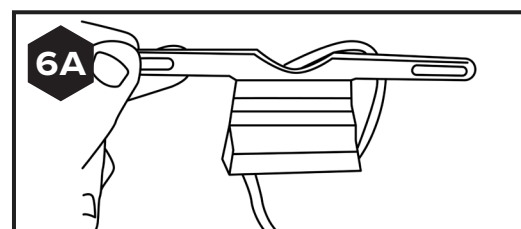
Repeat the previous two steps on the right Taillight with the right- side harness provided (excluding the Brake Input information). [SEE FIGURE 5E]



## 6 PLUG IN YOUR LICENSE PLATE ILLUMINATOR (OPTIONAL)

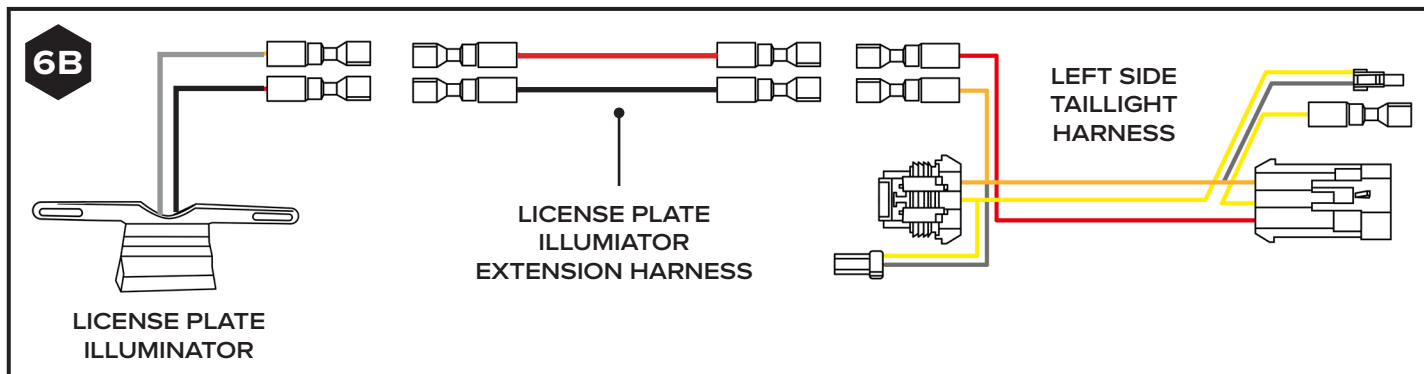
i

Locate the License Plate Illuminator provided with your kit. [SEE FIGURE 6A]



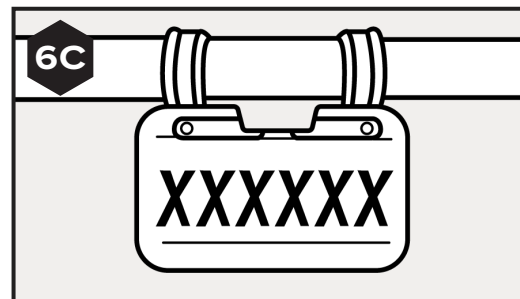
ii

Plug the connectors from the License Plate Illuminator (White = Power)(Black = Ground) to the License Plate Illuminator Extension Harness. Plug the extension harness to the left Taillight Harness labeled accordingly. [SEE FIGURE 6B]



iii

Affix the License Plate Illuminator to your license plate, reusing the hardware from your license plate. [SEE FIGURE 6C]



**NOTE:** Before driving your UTV on public roads, check your local laws. This includes verifying if a license plate illuminator is required.

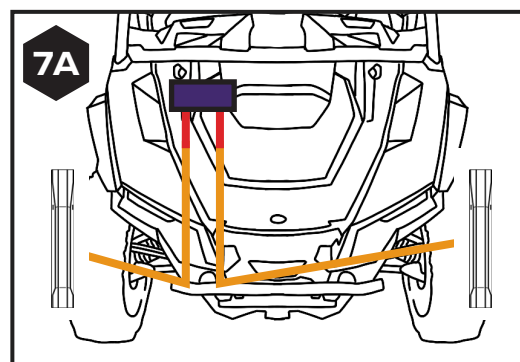
## 7 ROUTE FRONT LEFT & RIGHT TURN WIRING

i

With all your rear wiring routed (but not yet secured), go to where you placed your Turn Signal Controller and grab your FRONT LEFT and FRONT RIGHT wires.

ii

Route your FRONT LEFT and FRONT 7A RIGHT extension harnesses to the front end of the General, where you went to mount your Apex Turn Signal Lights permanently (jump to the next step to see all the mounting options for your lights). [SEE FIGURE 7A]



## 8

## SELECT LOCATIONS FOR APEX LIGHTS

## i

Your options include:

- **Exterior Body Panel**  
*Any exterior panel with 8" of flat surface for mounting*
- **Roof Mounting**
- **Roll Bar/Bumper Mounting**



Check out the video to the right (see QR code) for a 50 second walkthrough of the different Apex light mounting options.

## 9

## READY TO MOUNT APEX LIGHT

## i

If you have chosen to mount your Apex Lights to a roll bar or bumper, you will follow the Roll Bar mounting steps detailed in step 9A.

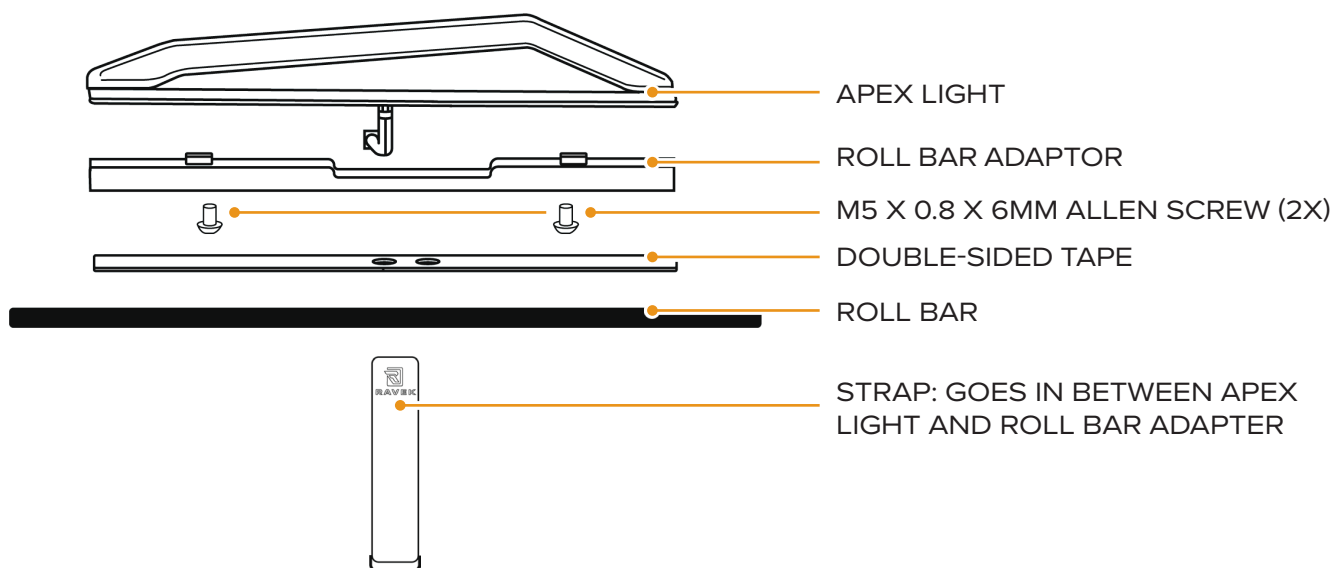
If you have decided to mount your Apex lights to either an exterior panel or to your roof, you now have to decide whether you want to mount your Apex lights via:

- Adhesive mount (i.e. no drill) → follow step 9B**
- Drill-mount for increased security → follow step 9C**

## 9A

## OPTION A - ROLL BAR MOUNTING:

## OPTION A DIAGRAM - ROLL BAR MOUNTING

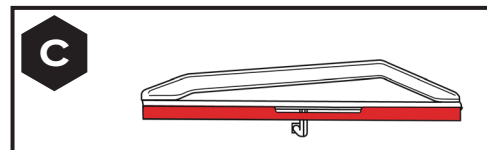
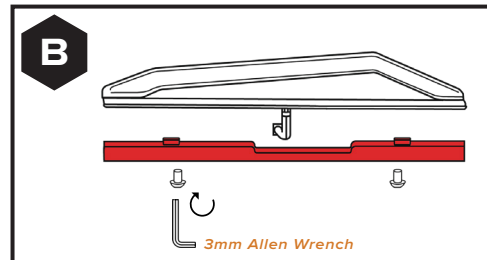
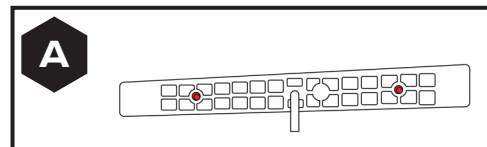




## INSTALL ROLL BAR ADAPTOR

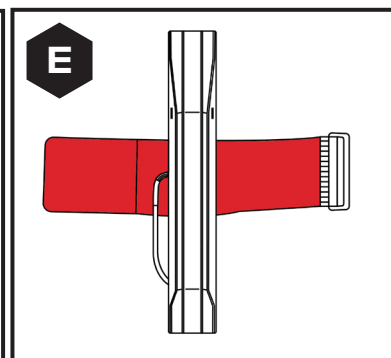
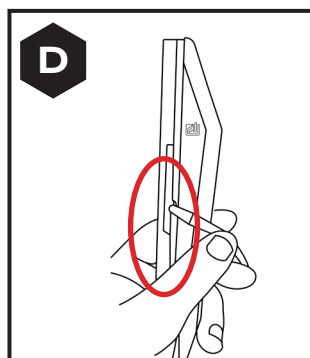
Install the roll bar adaptor to the base of the light by using two of the M5 x 0.8 x 6mm Allen Screws with a 3MM ALLEN WRENCH. [SEE FIGURES A – C]

**NOTE:** Choose which side you would like your wire to exit the light that allows you to best hide your wires.



## INSTALL STRAP

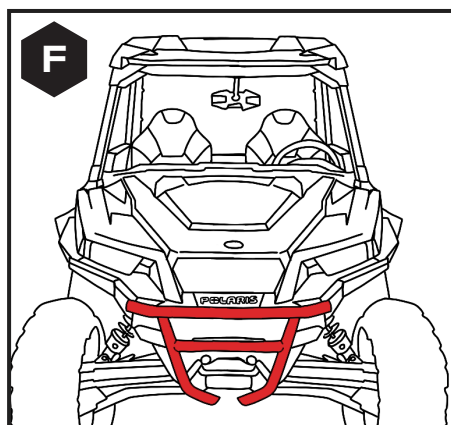
Once the roll bar adaptor is securely attached to the light, install the strap provided through the opening between the light base and the roll bar adaptor. [SEE FIGURES D & E]



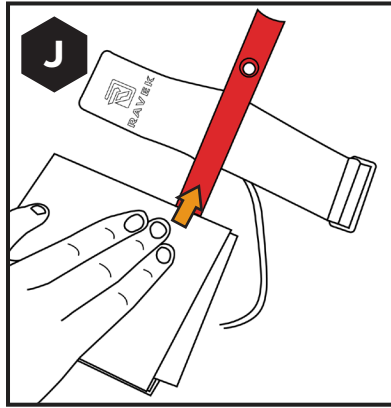
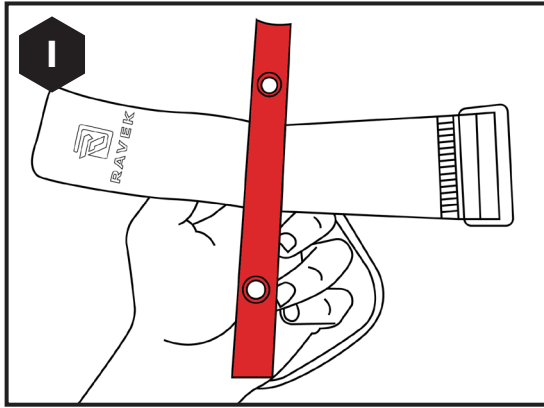
## WIPE WITH RUBBING ALCOHOL

Before you permanently install your Apex Light to the UTV's roll bar you've chosen, wipe down the roll bar and the base of the light with the rubbing alcohol wipe provided and let dry.

Next wipe down the roll bar and light base with the adhesion promoter wipe provided. Let dry. [SEE FIGURES F – J]



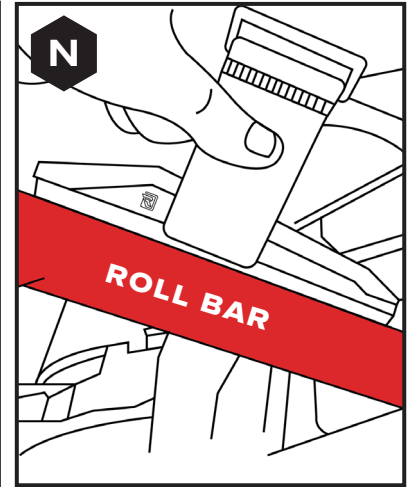
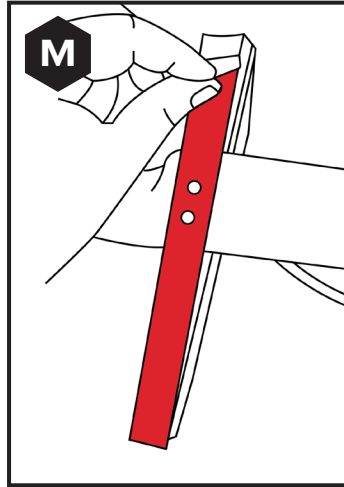
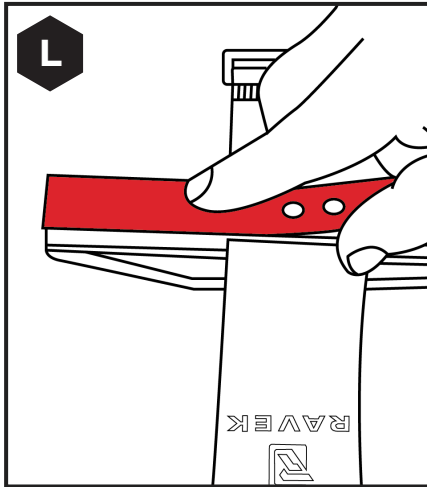
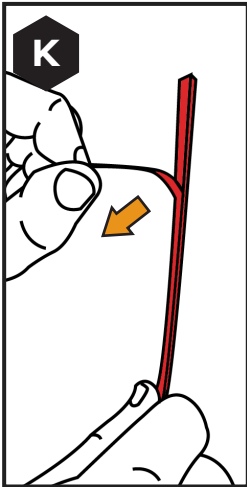




iv

## APPLY TAPE

Apply the double-sided tape to the dry Apex Light's roll bar adapter, and attach the light to the surface you cleaned and prepared in the prior step. [SEE FIGURES K – N]

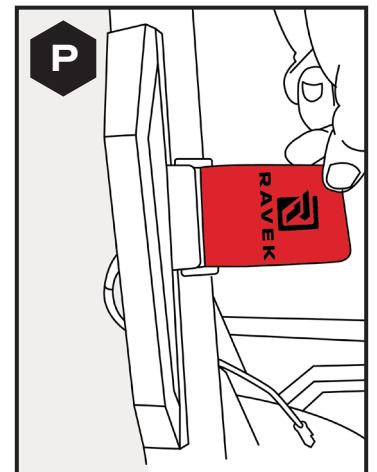
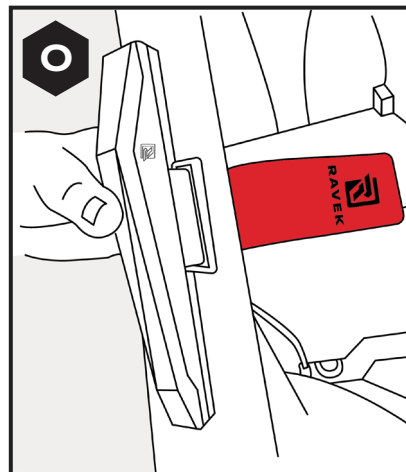


v

## TIGHTEN STRAP

Tighten straps onto base and roll bar. [SEE FIGURES O & P]

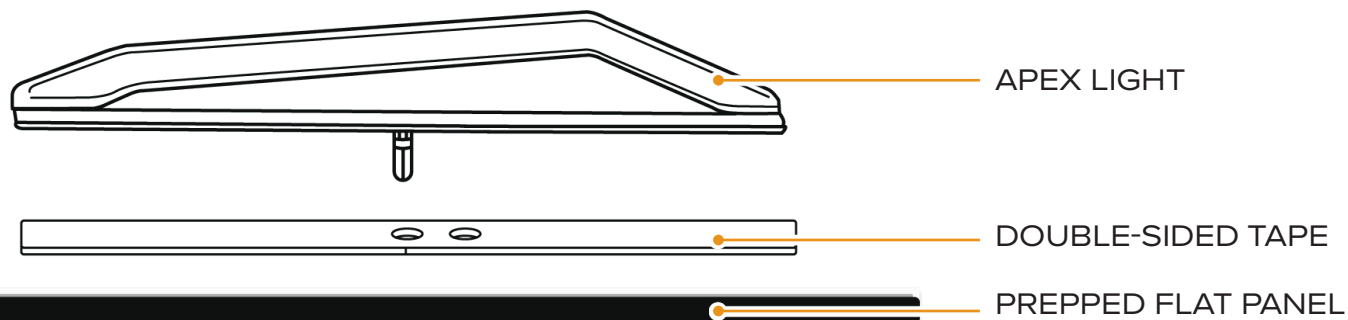
**NOTE:** If you have excess length of strap you can rotate the buckle away from the slack to reduce the slack in the strap.



**9B**

## **OPTION B - ADHESIVE ONLY MOUNTING:**

### **OPTION B DIAGRAM - ADHESIVE ONLY MOUNTING**



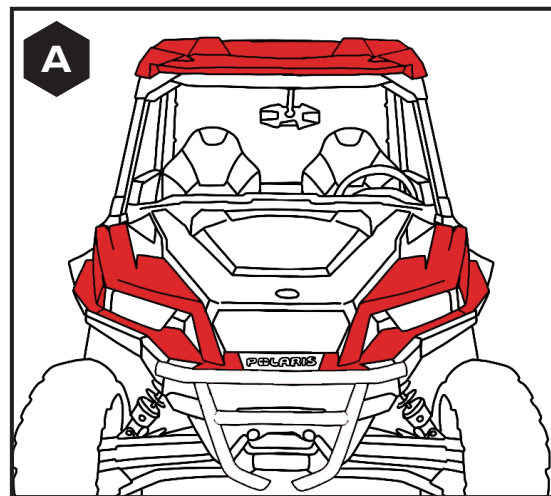
**i**

### **LOCATE A SURFACE TO MOUNT TO**

Locate an exterior panel with 8" of flat surface for mounting. [SEE FIGURE A]

***NOTE:** If you're adhesive mounting the Apex Lights to the roof, we recommend drilling a hole to feed the wires through. The Apex Light adhesive creates a water-tight seal.*

**A**

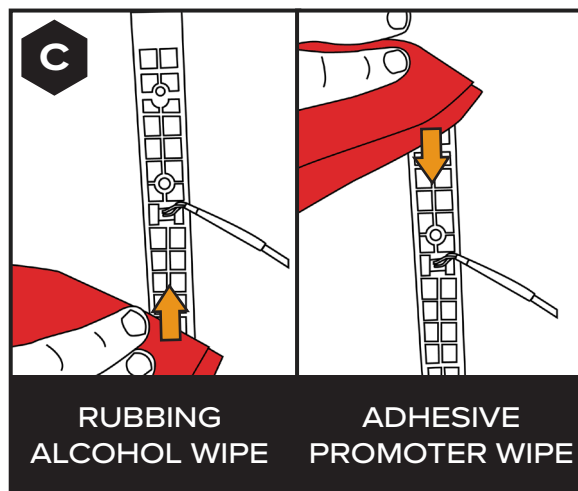


**ii**

### **WIPE DOWN SURFACES**

Before you permanently install your Apex Light to the UTV's flat panel you've chosen, wipe down the panel and the base of the light with the rubbing alcohol wipe provided and let dry.

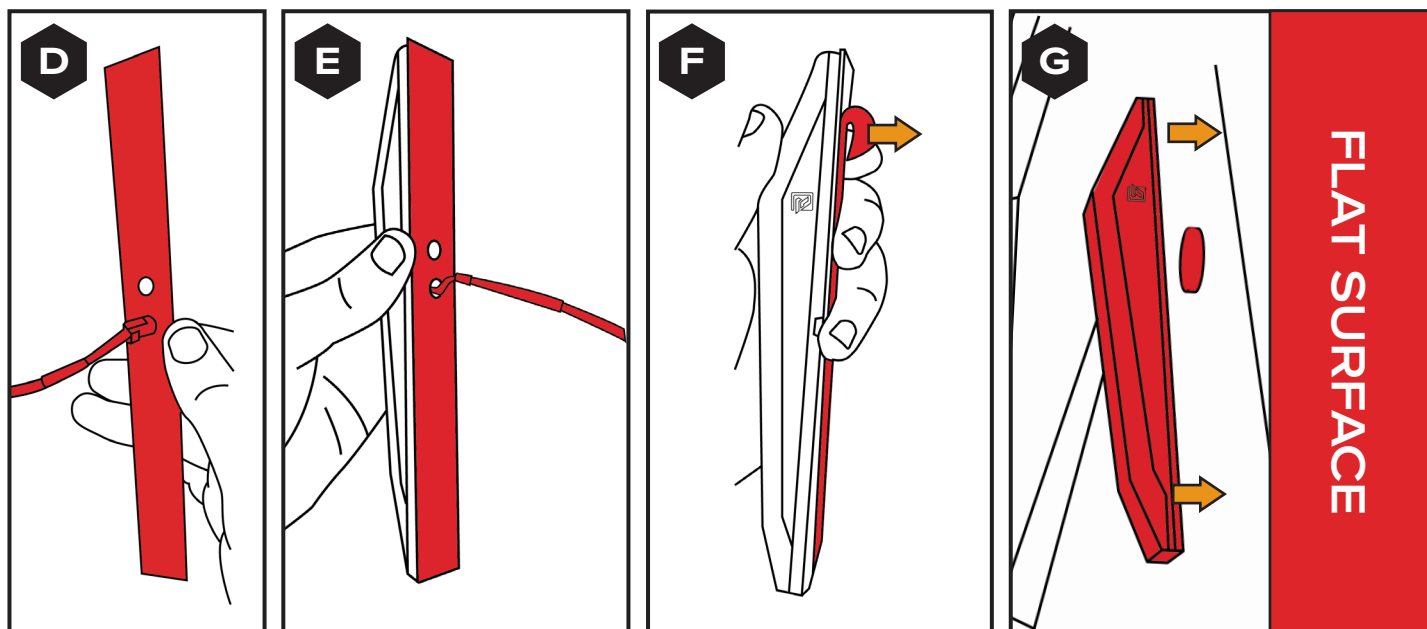
Next wipe down the panel and light base with the adhesion promoter wipe provided. Let dry. [SEE FIGURES B & C]



### APPLY TAPE

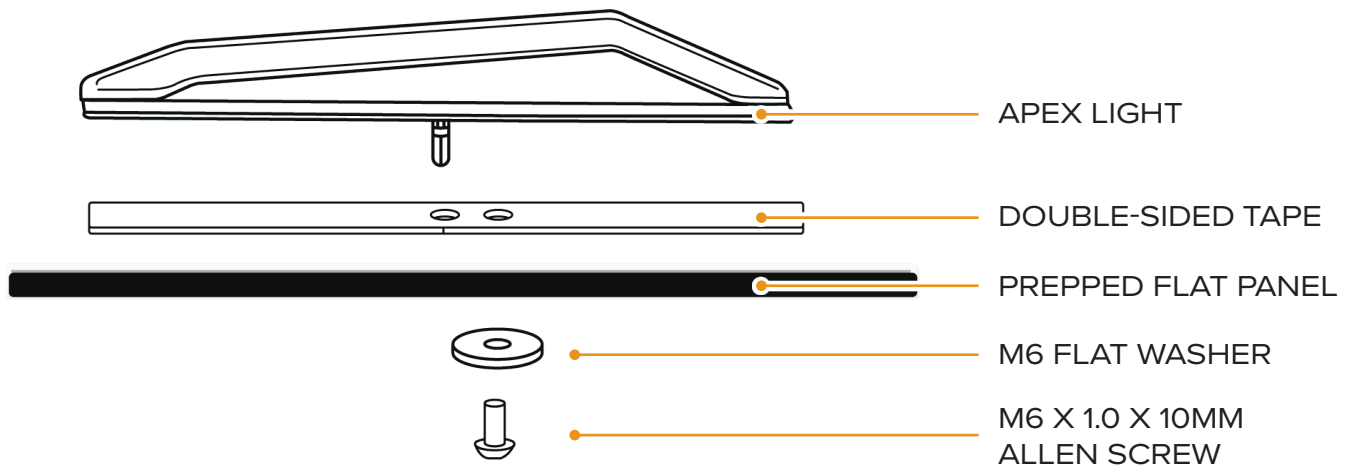
Apply the double-sided tape to the Apex Light's base and affix the light to the prepped surface. [SEE FIGURES D – G]

**NOTE:** Be sure the whole light's base is in contact with the surface of the UTV to ensure the light will hold up permanently.



**JUMP TO STEPS 10-15 TO FINISH INSTALL**

## OPTION C DIAGRAM - DRILLED AND ADHESIVE MOUNTING

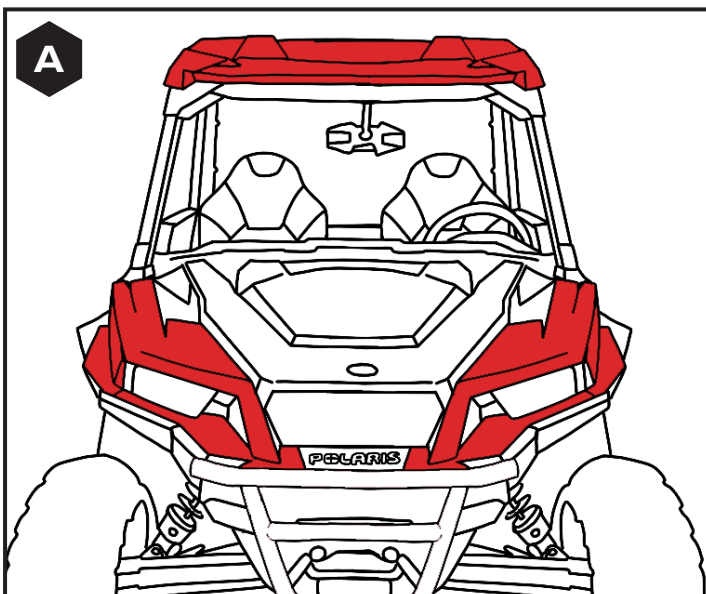


## i

**LOCATE A SURFACE TO MOUNT TO**

Locate an exterior panel with 8" of flat surface for mounting.  
[SEE FIGURE A]

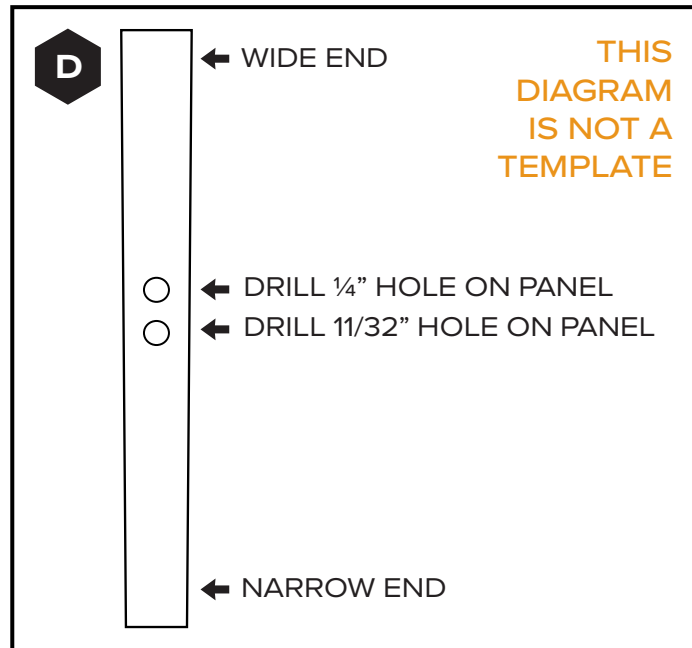
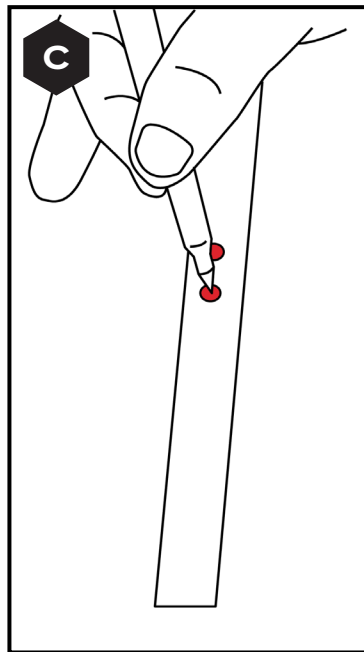
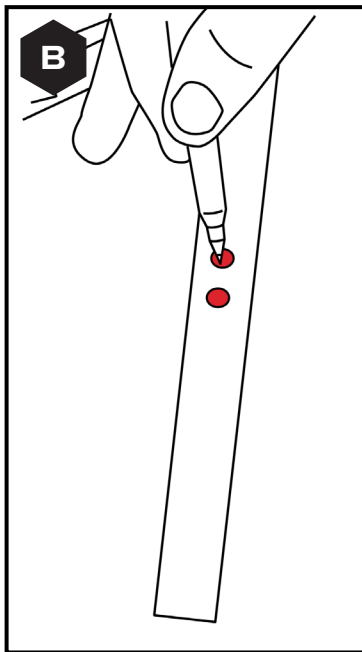
## A





## MARK HOLES TO DRILL

Use the double-sided tape holes as a template for the drilling locations. Confirm you can access the inside of the panel that you'll need to be able to access this area with your flat washer. [SEE FIGURES B - D]



## DRILL 1/4" HOLE

Once you have your holes marked, drill a 1/4" hole that will be used to feed the screw through.

**NOTE:** We recommend using a brad point drill bit to avoid damaging your panel.



## DRILL 11/32" HOLE

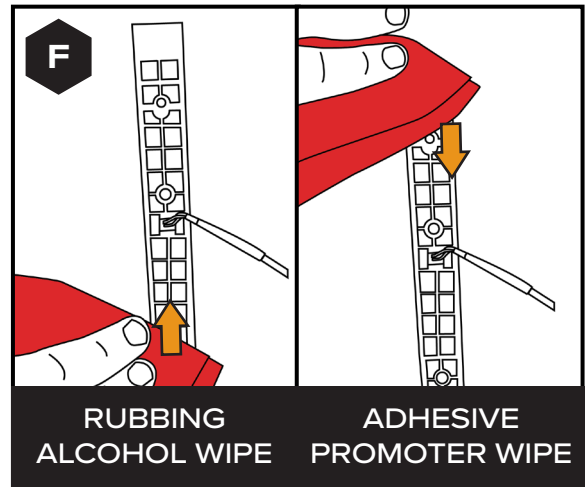
Drill a 11/32" hole that you will feed the Apex light's wire connector through.



## WIPE SURFACE WITH RUBBING ALCOHOL

Before you permanently install your Apex light to the UTV's flat panel you've chosen, wipe down the panel and the base of the light with the rubbing alcohol wipe provided and let dry.

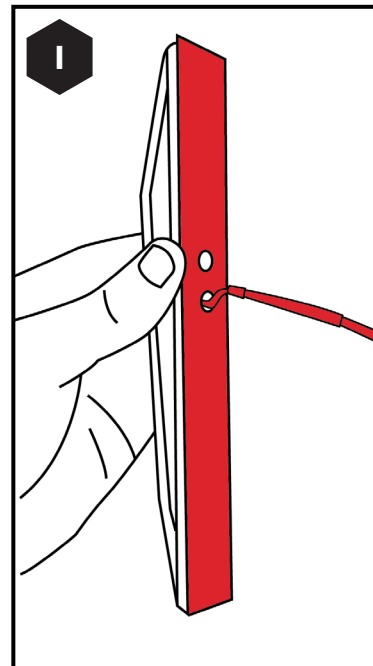
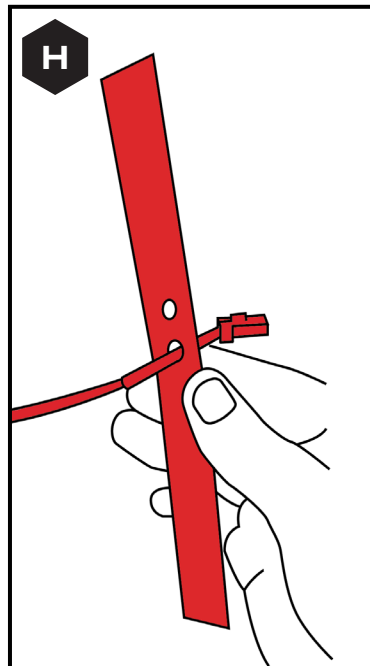
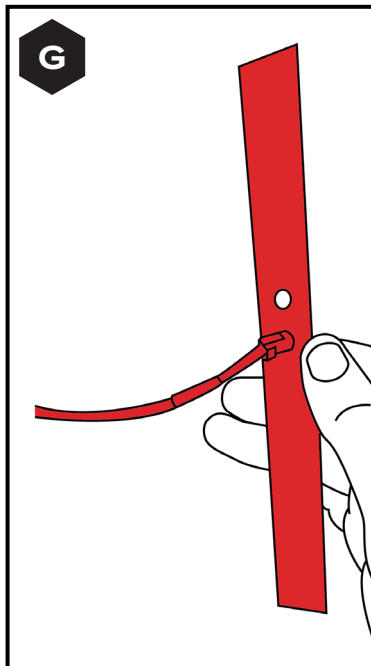
Next wipe down the panel and light base with the adhesion promoter wipe provided. Let dry. [SEE FIGURES E & F]



**vi**

## APPLY TAPE

Apply the double-sided tape to the Apex light's base. [SEE FIGURES G - I]

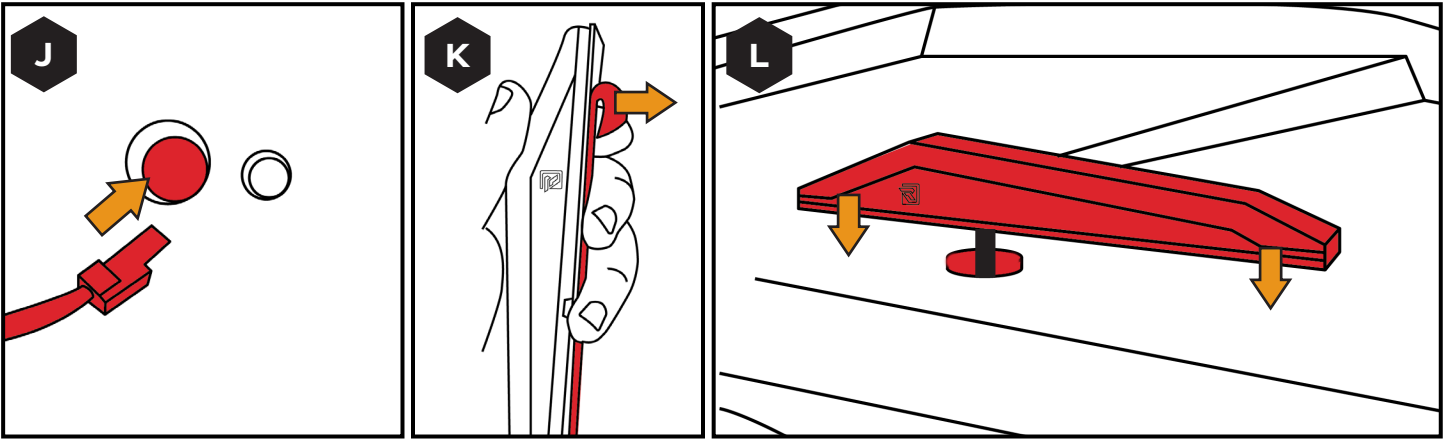


**vii**

## ADHERE LIGHT TO PREPPED SURFACE

Feed your light's wiring through the 11/32" hole. Peel away the double-sided tape cover, and stick the Apex light to the prepped surface. [SEE FIGURES J - L]





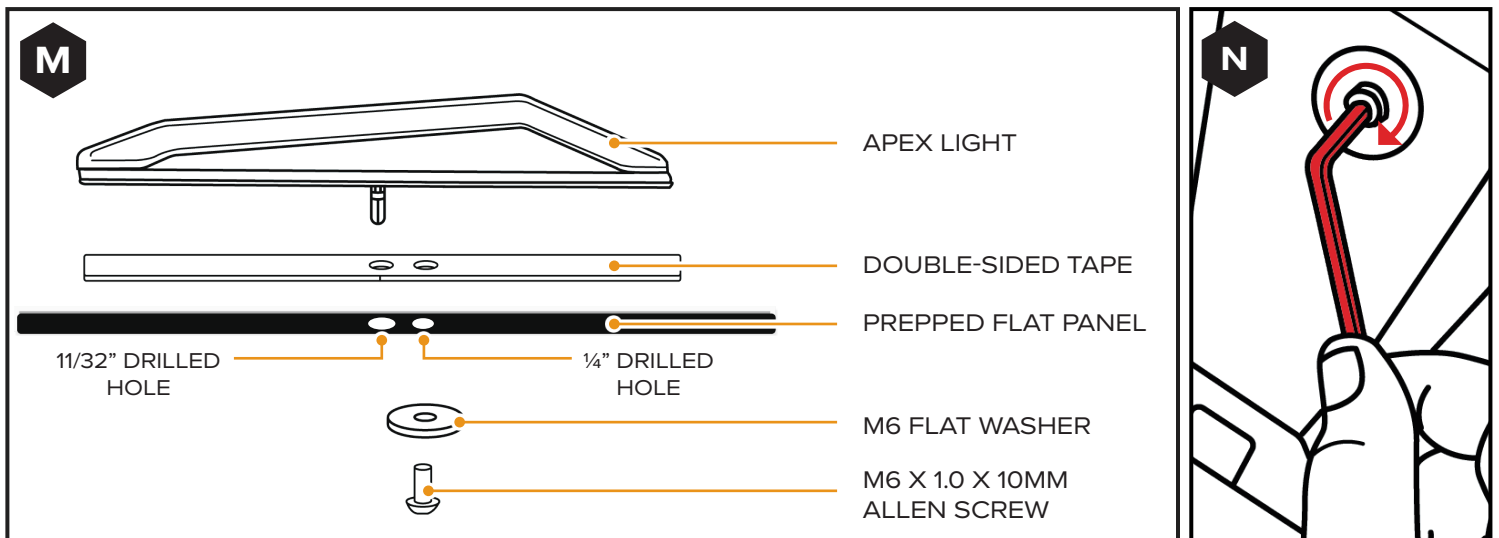
## viii

### THREAD IN SCREW

Thread your M6 x 1.0 x 10mm Socket Allen Screw with an M6 Flat Washer through the backside of the panel into the light's base using a 4MM ALLEN WRENCH. [SEE FIGURES M, N, & OPTION C DIAGRAM]

**NOTE:** If a longer screw is required, you have two options:

1. Give us a call or email, and we will express mail you a screw of the length you need.
2. Go to your local hardware store and purchase a M6 x 1.0 x (your desired length).



**JUMP TO STEPS 10-15 TO FINISH INSTALL**

i

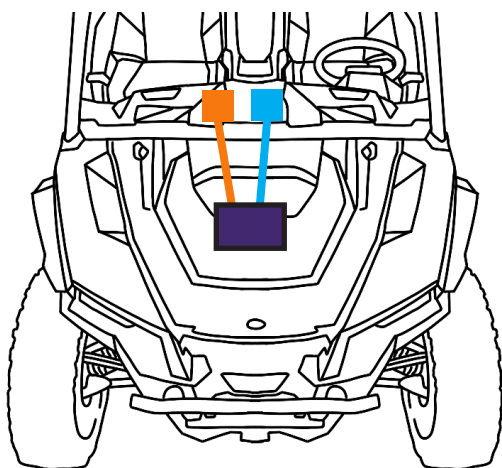
Grab your Turn Signal rocker switch and extension wire. Feed the extension wire through your chosen open slot in your switch panel.

Route the small plug on the extension through the firewall grommet to the controller and plug it in. [SEE FIGURE 10A]

**NOTE:** The easiest way to route the extension wire is through the rocker switch open slot, firewall grommet, and to the controller, as described above.

**NOTE:** Repeat this process with the Horn/Hazard Switch extension wire.

10A



HORN/HAZARDS  
ROCKER SWITCH AND  
EXTENSION HARNESS

TURN SIGNAL  
ROCKER SWITCH AND  
EXTENSION HARNESS

CONTROLLER

i

Return to the Turn Signal Controller and route the Horn Extension harness to the front of the General, where you will permanently mount the Horn reusing an OEM bolt that you select.

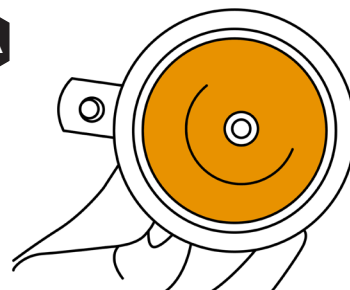
ii

Grab your horn from the kit once your wiring is fed to the front area. [SEE FIGURE 11A]

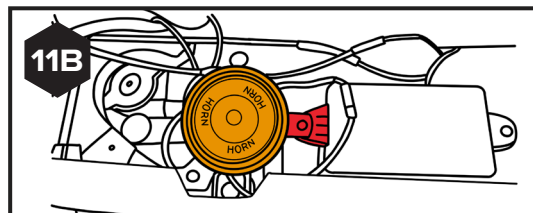
iii

Install the horn in an open area that is out of the way of suspension or moving parts of the General, reusing a bolt location you choose on the front of the General. [SEE FIGURE 11B]

11A

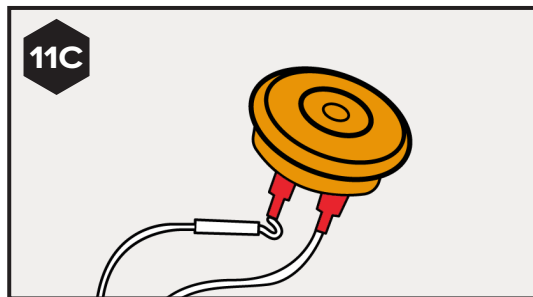


11B



iv

Plug both spade connectors from the extension harness to the connectors on the backside of the horn (no specific connector to plug into). [SEE FIGURE 11C]



## 12 PLUG IN YOUR TURN SIGNAL CONTROLLER TO POWER

i

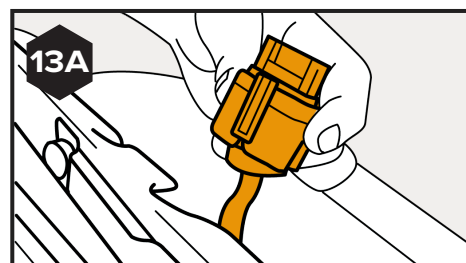
Return to the Turn Signal Controller and plug in the connector from the Power Harness to the open port on the bus bar mentioned during step 1. [SEE FIGURE 12A]



## 13 INSTALL DASH INDICATORS

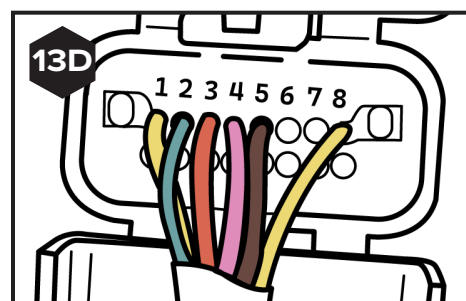
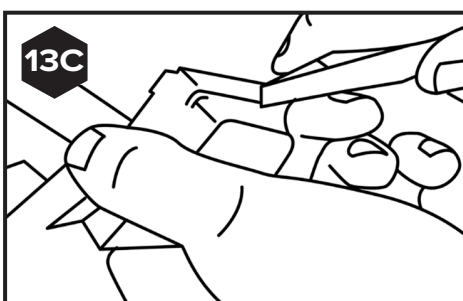
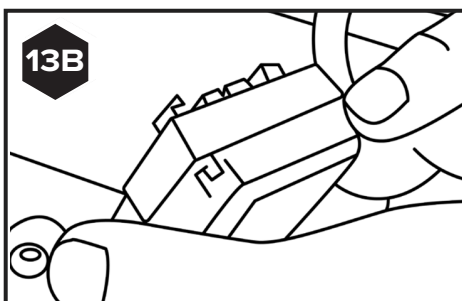
i

Remove gauge cluster and Unplug the connector in the backside [SEE FIGURE 13A]



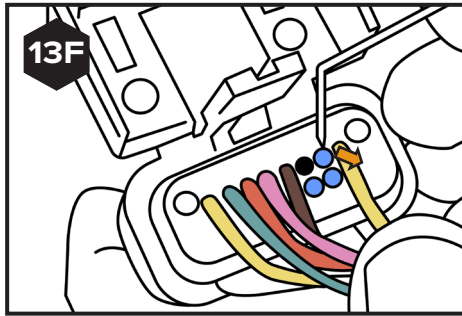
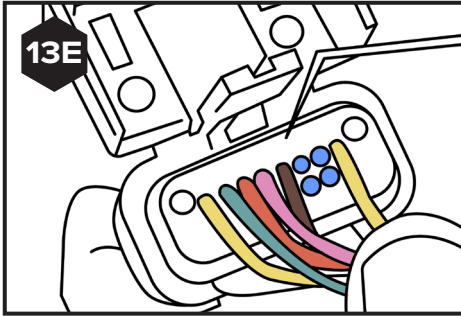
ii

Remove the clear gray cover on the connector by depressing the white tabs at each end and sliding it up [SEE FIGURES 13B - 13D]



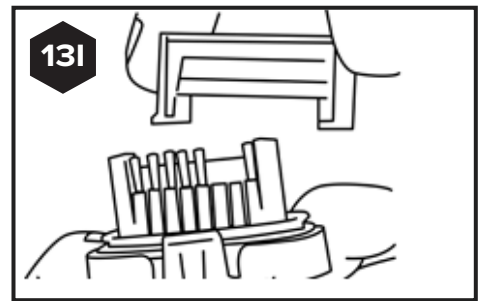
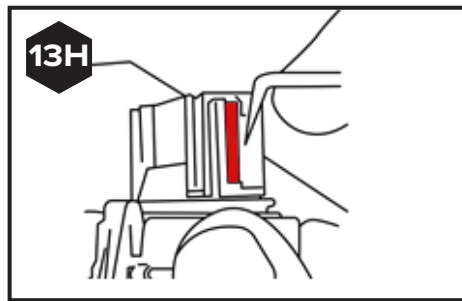
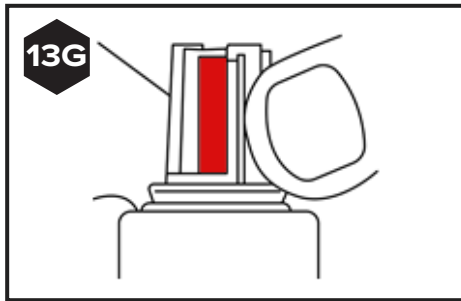
iii

Remove the plastic pin inserts on terminals 6 and 7 by pulling them outward. These pins are numbered on the wire side of the plug [SEE FIGURES 13E & 13F]



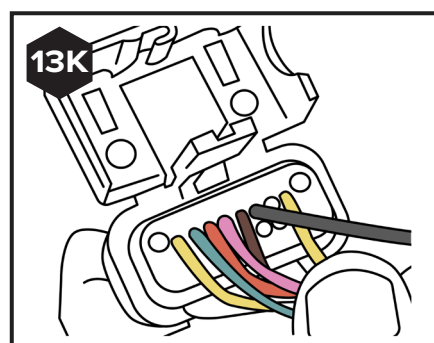
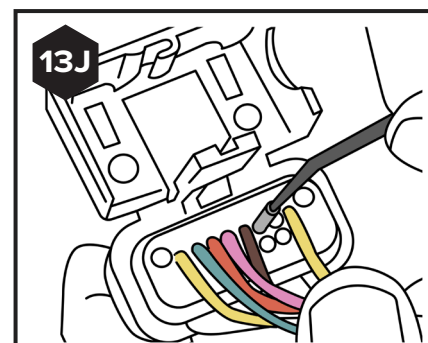
iv

Remove the clear gray cover on the connector by depressing the white tabs at each end and sliding it up. [SEE FIGURES 12G – 12I]



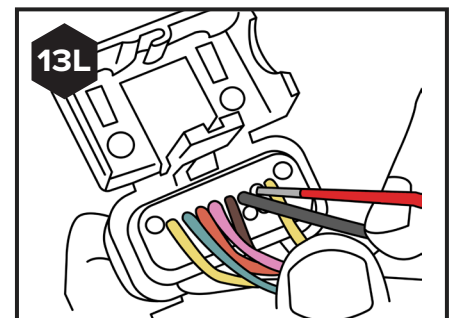
v

Grab your RIGHT DI wire, insert the pin from the wire into terminal 6, and verify it lines up evenly with the other pins. [SEE FIGURE 13J & 13K]



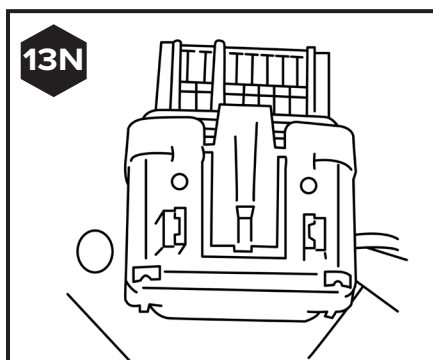
vi

Repeat the previous step with the LEFT DI wire on terminal 7. [SEE FIGURE 13L]



**vii**

Once pins are precisely inserted into their respective terminals, you may snap the connector back to its default closed format and reinstall the clear gray cover removed in step 13.D. [SEE FIGURES 13M & 13N]



**14**

## VERIFY THE FUNCTION OF THE KIT

**i**

Now it's time to confirm the kit is working as designed, but before reconnect your battery by reversing step 1.ix.

With your battery connected turn your General's Power on, and test all the kit's features:

- Running brake lights
- Running white lights
- Brake light w/ pulse effect
- Left turn signal → 15 second auto cancel
- Left turn signal dash indicator (in gauge cluster)
- Right turn signal → 15 second auto cancel
- Right turn signal dash indicator (in gauge cluster)
- Hazards
- Horn (plug your ears)

i

Once the function of the kit is verified and everything is working appropriately, go over all your connection points and heat shrink them (if you have not done so already) as mentioned in step 3.

ii

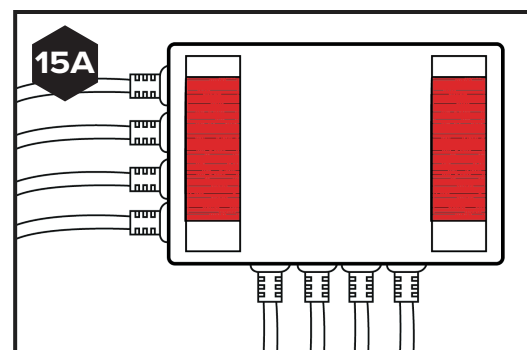
Use the zip ties supplied in the kit, secure all of your wiring to frame tubes or roll bars (away from hot or moving components).

iii

Once all of your wiring is secured with the help of the zip ties, cut all the excess zip ties using side cutter pliers.

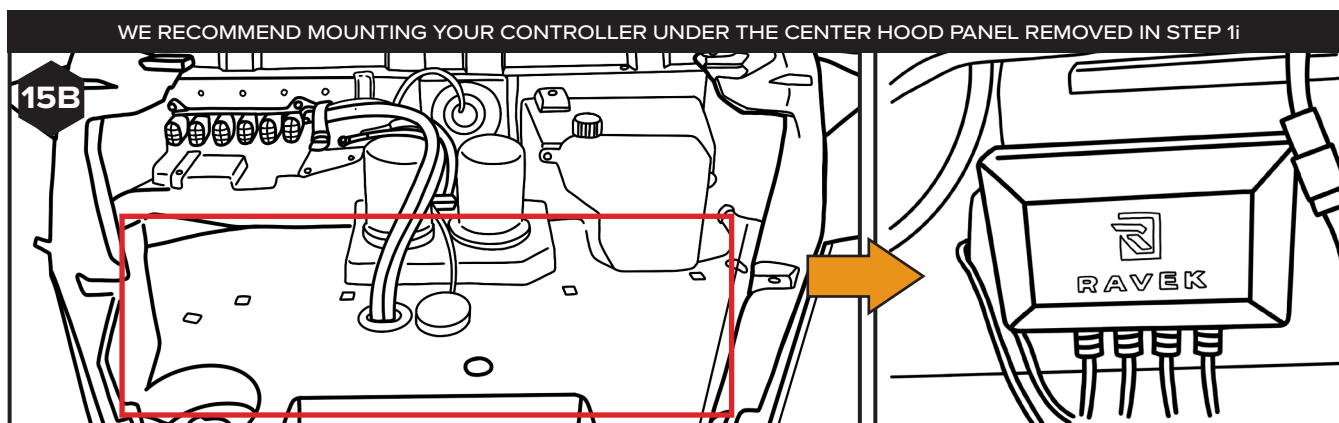
iv

Place the two strips of double-sided tape provided in the kit on the backside cavities on the controller. [SEE FIGURE 15A]



v

Once the surface is clean and dry, stick your controller to your chosen location and let the tape cure for 24 hours before riding. [SEE FIGURE 15B]



vi

Reverse steps 1.i - 1.x to reinstall all of your General's body panels and parts that were previously removed.







**RAVEK**  
BUILT FOR MORE

## WHY RAVEK

Stock UTVs don't come with enough storage, lighting, comfort, and protection. That's why we started RAVEK.

We live to design, manufacture, and test innovative SxS upgrades that elevate the riding experience. Here's what you can expect from us:

- Durable products built to last (100% lifetime guarantee)
- UTV upgrades thoughtfully designed & tested by riders
- Outstanding installation support (videos & USA customer service)
- Constant flow of epic riding content (check out our social media)

We're confident your RAVEK product will earn its place on your machine. Please call or e-mail us if we can help.

- Harry & Ricky (Brothers & Owners)

## MESSAGE FROM THE DESIGNER

All UTVs come without turn signals, and even though you can ride them on the road, people need to make hand signals to indicate to other riders that you are making a turn! Not only is it tiring, but not safe!

That is why I created this kit: you can easily install a turn signal kit to your UTV, add some personality to your ride, and make your ride safe at any time of the day.