

Tusk Plug and Play UTV Signal and Horn Kit

Part #2102330015, 2102330016



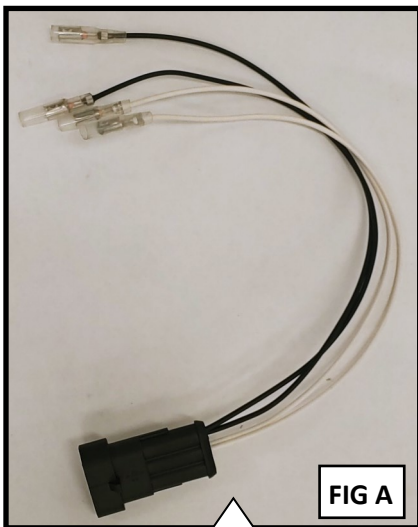
Thanks for your purchase of the Tusk UTV Signal Kit! Please follow instructions carefully to complete a successful installation. If you are not comfortable working around electricity and related components, please seek professional assistance.

Assembly: *Before you throw any packaging away, make sure you received all the necessary components. Note that you will receive either option 1 parts or option 2 parts, based on your kit selection.*

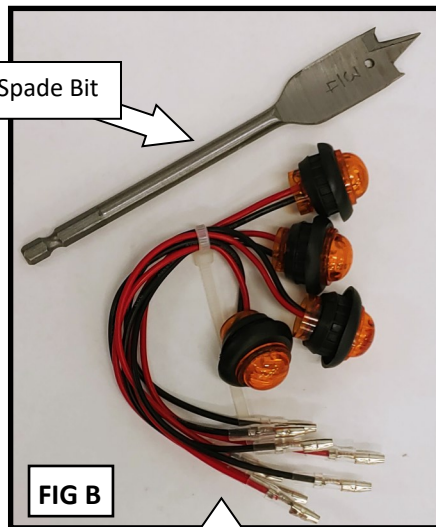
Parts:	
Main Harness	(1)
Tail Light Harness	(1)
Power Adapter	(1)
Front Turn Signal Adapters	(1)
Rocker Switch Harness	(1)
Turn Signal Rocker Switch	(1)
Horn Rocker Switch	(1)
License Light	(1)
License Plate Mount	(1)
Grounded LED Flasher Relay	(1)
5-Pin, 40A Relay	(2)
Horn	(1)
Horn Mounting Bolt	(1)
Horn Mounting Nut	(1)
Cable Ties	(35)
2-wire Dash Pin Harness	(1)

Vehicle Fitment:
Polaris General

Option 1 Additional Parts:	
Front Button Light Harness (FIG A)	(1)
3/4" Spade Bit	(1)
Round LED Turn Signals (4-Pack) (FIG B)	(1)
Option 2 Additional Parts:	
Vehicle specific Front Accent/Turn Lights	(1)
FIG C-1	
Tusk Front Turn Signal Adapters (Left/Right)	(1)
FIG C-2	



Front Button Light Harness



Front Button Lights

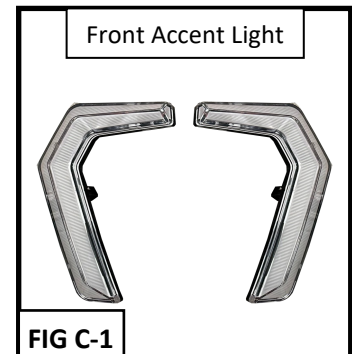


FIG C-1

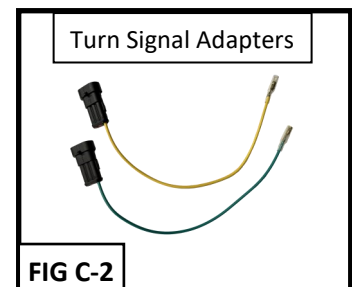
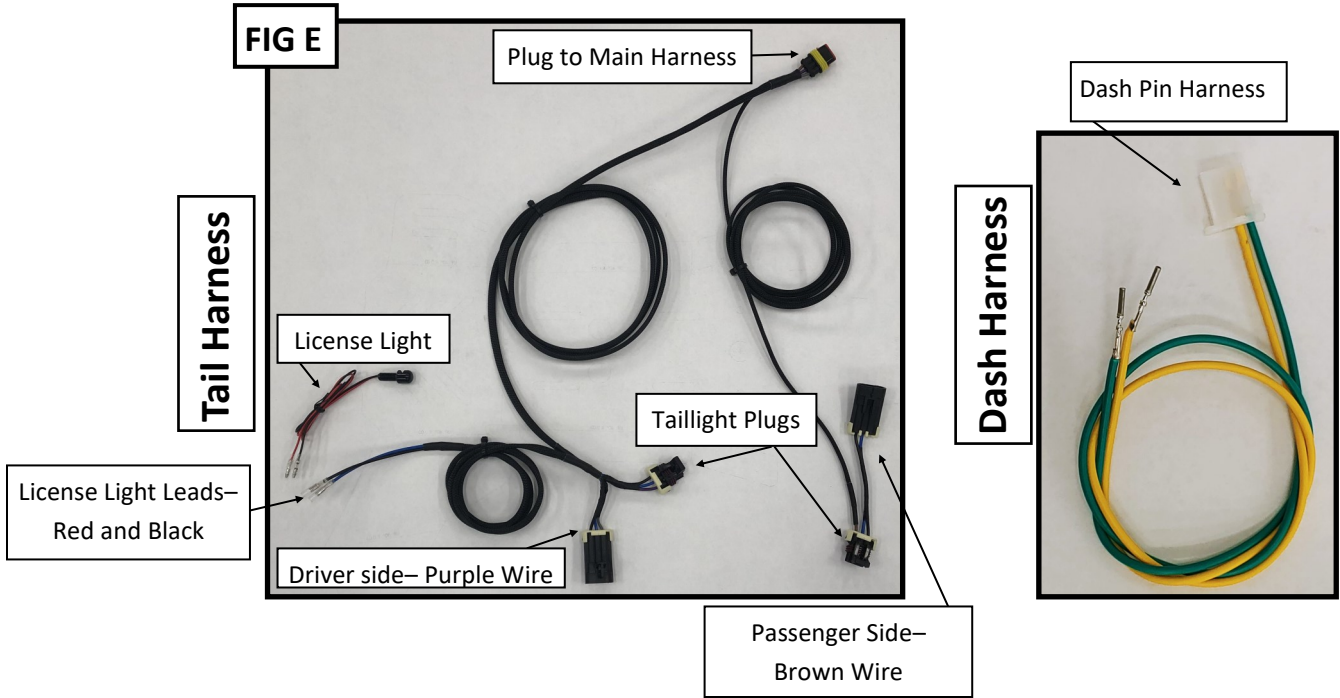
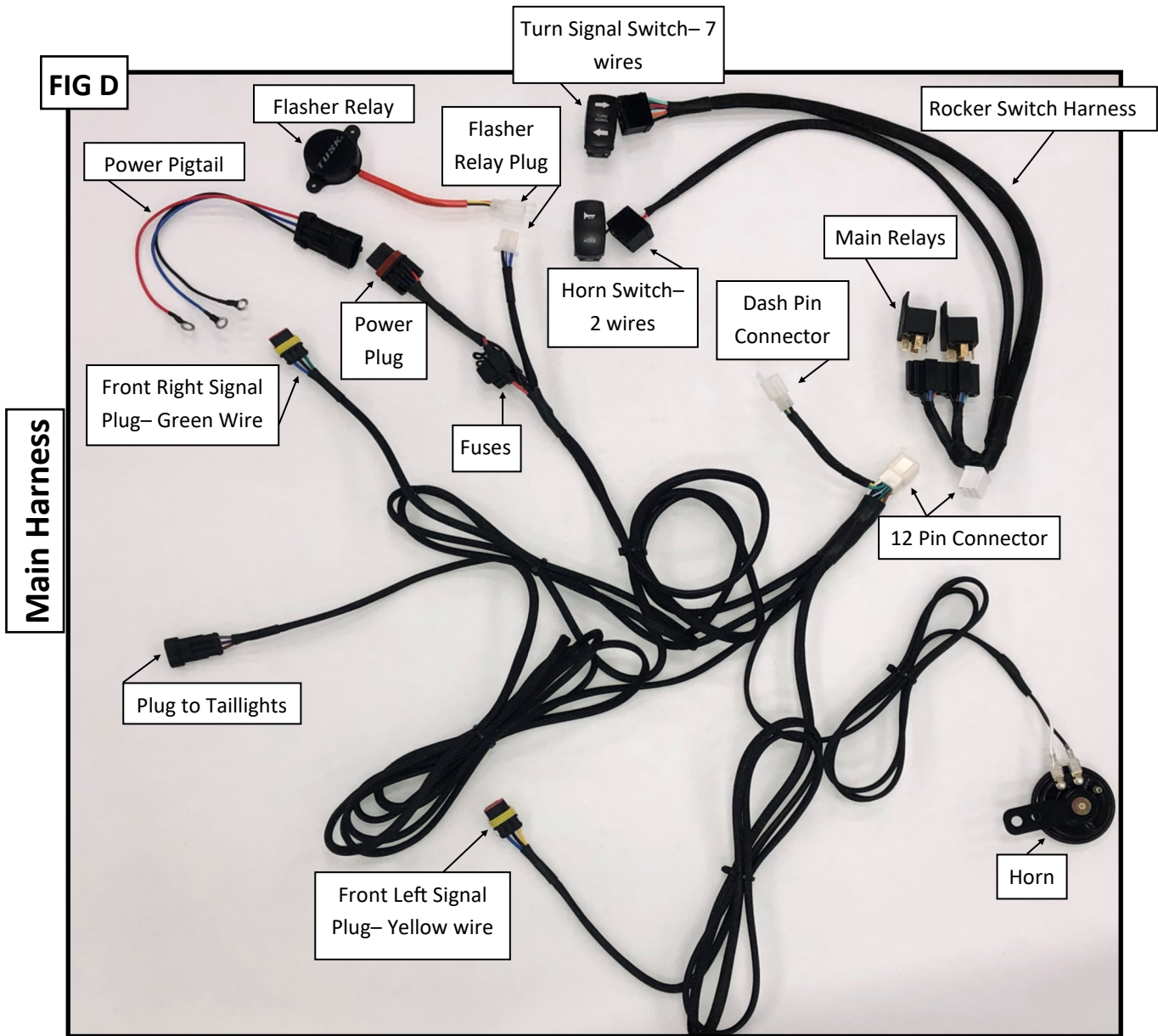


FIG C-2



Installation:

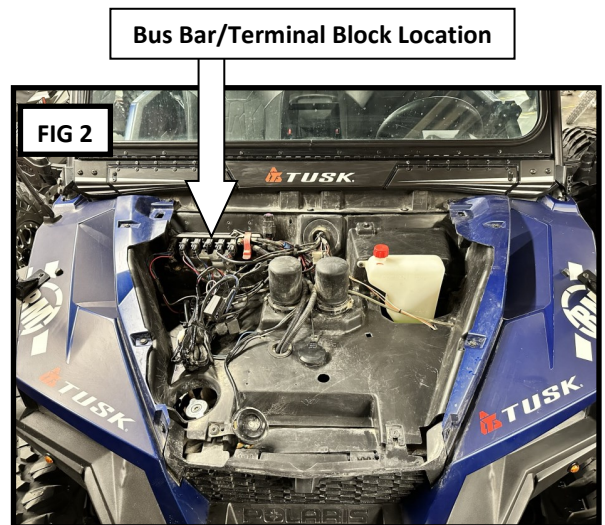
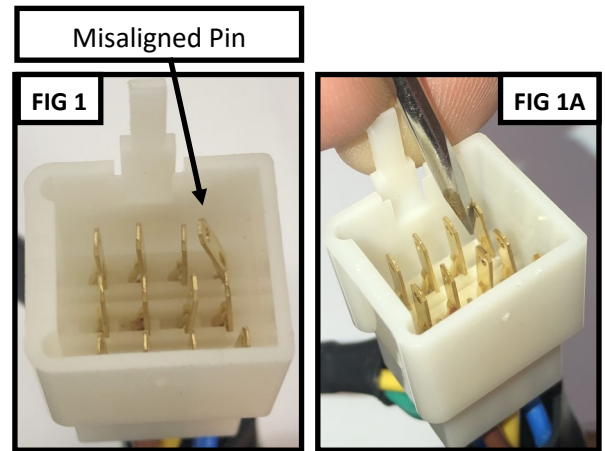
CAUTION: Always disconnect the vehicle battery before attempting any work with electrical components. Locate the battery and remove the negative terminal connection. Ensure the wire is held away from falling back into contact with the terminal.

NOTE: While routing wires, ensure the wire is secured and clear of any hot components such as coolant lines. Keep good clearance from sharp or rotating objects while routing wiring. Do not route wires in a manner that will put strain on the wire connections.

1. Layout the **Main and Tail Harnesses**. Use this time to plan routing and familiarize yourself with the harnesses/plugs. **See the images on page 2 for reference throughout the installation process.** We opted to run wiring under the dash and through the center console for a clean look, however, doing so is not required. If you opt to route wiring differently be sure to keep wires clear of hot, sharp, and rotating components and to not put strain on the connectors. Layout all harnesses completely before any cable ties are used.

NOTE: Occasionally there may be a bent or misaligned pin inside a connector. Check each connector before assembly and carefully adjust any misaligned pins with a pick or small flat head screwdriver. This will ensure a smooth and reliable connection. **FIG 1/1A**

2. If routing through the tunnel along the center of the floor, remove seats and tunnel covers for easier access.
3. On the inside of the machine, locate a spot (there are generally precut holes with firewall grommets) in the front bulkhead near the center. Pass both front turn signal plug, the horn leads and the power plug through the dash towards the front of the machine.
4. Position the 12 pin connector (**FIG 1/1A**) so that it is behind the ignition, in the dash.
5. Run the power plug to the underside of the machines hood so the power plug can connect to the bus bar/terminal block found under the hood of the machine. **FIG 2,3**
6. Run the tail harness behind the front bulkhead cover and down the center tunnel so the tail harness connector is near the rear firewall.

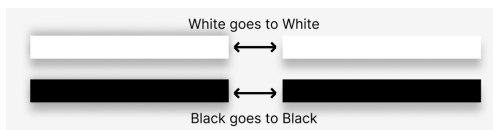


Instructions Continued:

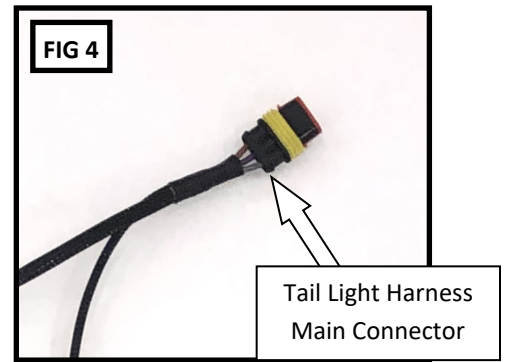
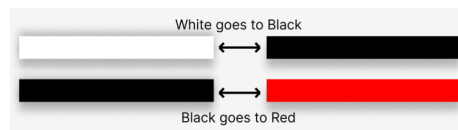
- From the outside of the machine, feed the main connector for the tail harness (**FIG 4**) through the rear firewall and attach to the main harness.
- Route the left tail light lead (purple wire with license light leads attached) and right tail light lead (brown wire) along the existing wiring to their respective corner taillights.
- Remove the bedside covers from the machine by unscrewing the bolt located closest to the cab, then popping the cover out of its tabs.
- Disconnect the OEM tail light plug, then plug in the Tusk Tail Light Harness to the OEM taillight. Then connect the Tusk Tail Light Plug into the OEM tail light harness. Do this to both sides. **FIG 6**
- Route the license plate light lead to your desired location (The license light can be used in place of a license plate bolt). Connect the black wires together and the blue from the license light lead to the red on the license light.
- Secure wiring with included cable ties, starting from the tail lights and working toward the main harness, stop once you reach the tail harness to main harness connection.
- Install front turn lights, if using the button lights continue on to the next step. If using the OEM style front turn light skip to step 14.
- Choose locations for installation of the button lights (2 on each side).
 - It is best to remove the panel(s) that are being drilled (trust us on this one...). Drill the holes with the supplied 3/4" spade bit. Mount them so there is visibility from the front and side. **FIG 20**
 - Once the holes are drilled, remove the black retaining rubber grommet from the lights and insert the grommets into the holes. Then insert the lights into the grommets with "TOP" indicator, located at the top of the light. **FIG 5**
 - Reinstall any panels that were removed.

****Notice the color of the wires on the LED Button Lights****

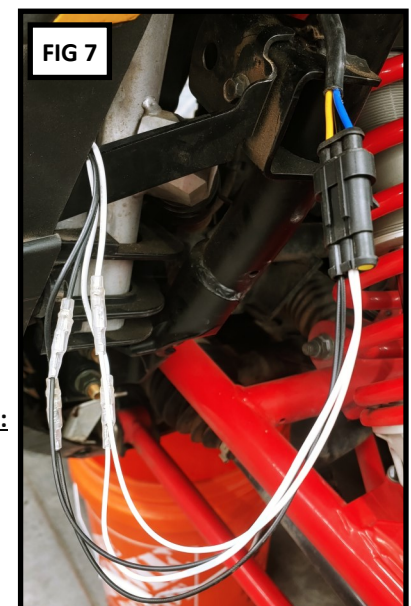
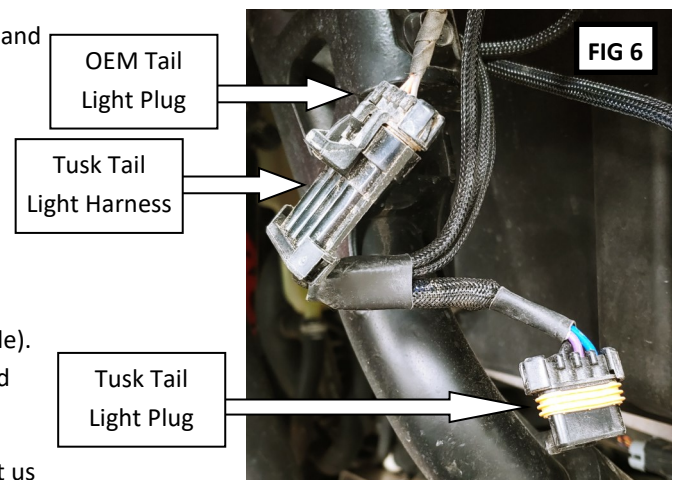
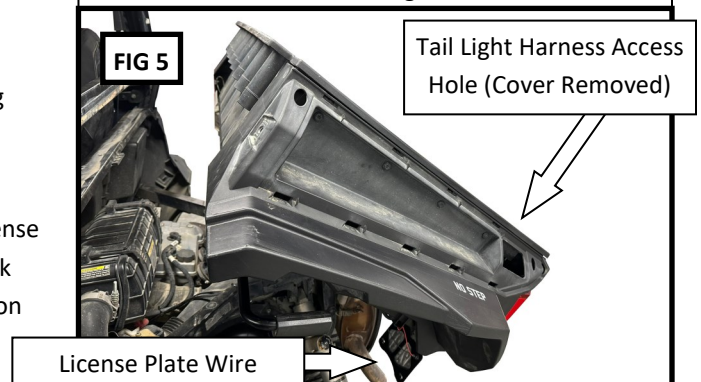
If the wires on the LED's are Black and White:



If the wires on the LED's are Black and Red:



General—Tail Light Access

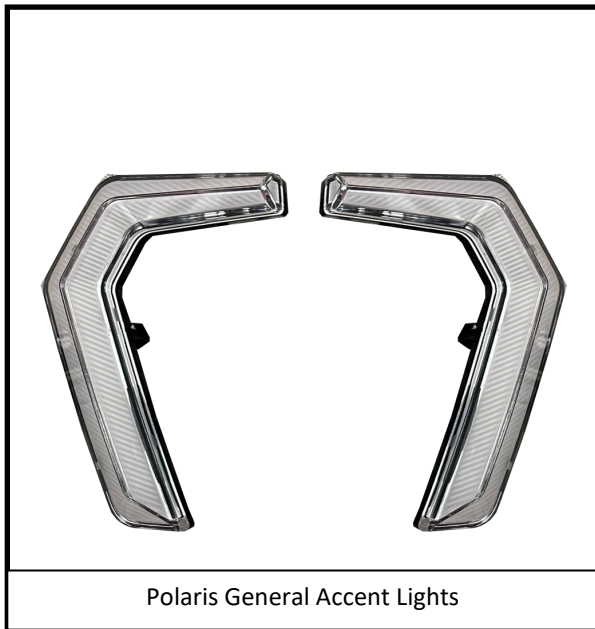
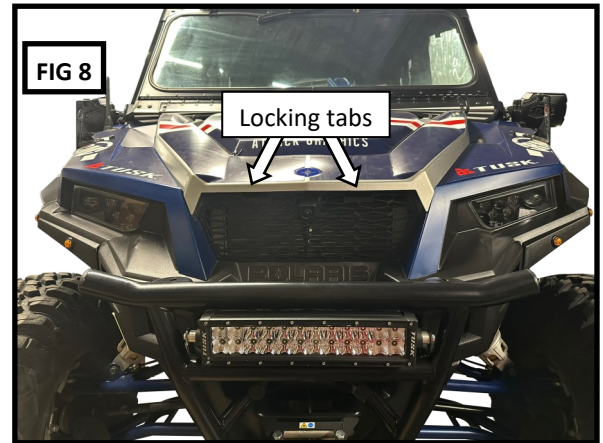


Instructions Continued:

14. For Accent Lights:

- C. Install Accent Lights per included Accent Light Instructions.
- D. Use the signal adaptors from the Tusk turn signal plugs to attach to the yellow and green signal wire leads coming from the Tusk Accent light. The green wire turn signal plug is for the right indicator and the yellow goes to the left indicator (connect green to green and yellow to yellow).

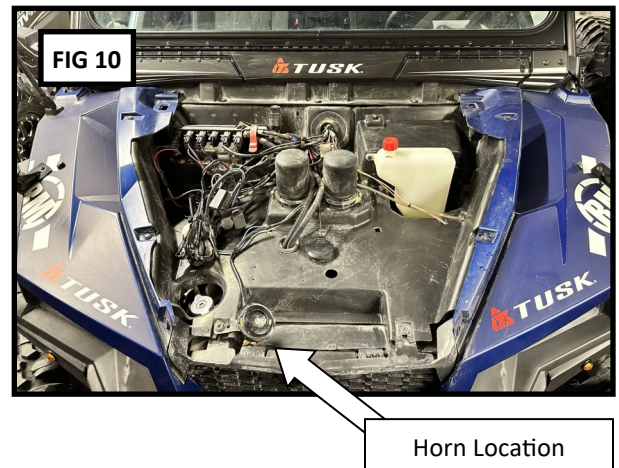
- E. Reinstall the grill insert. **FIG 9**



- 15. Mount the horn (you may wish to use the supplied M6 nut and bolt) and connect the blade connectors, either wire can go to either blade. (We like to mount the horn to any OEM bolts in a covered area)

FIG 10

- 16. Secure the wiring from the front lights and the horn back to the dash using the supplied cable ties. Start at the front and work rearward. Make sure that all connectors have some strain relief so that there is no tension on them.



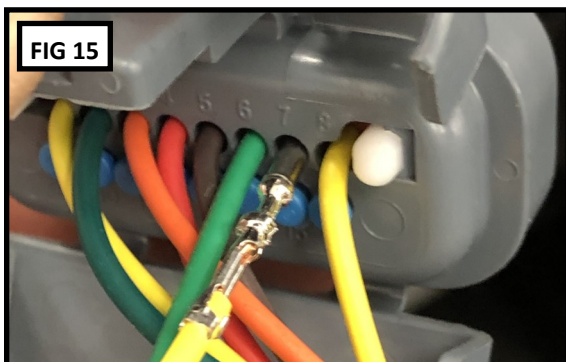
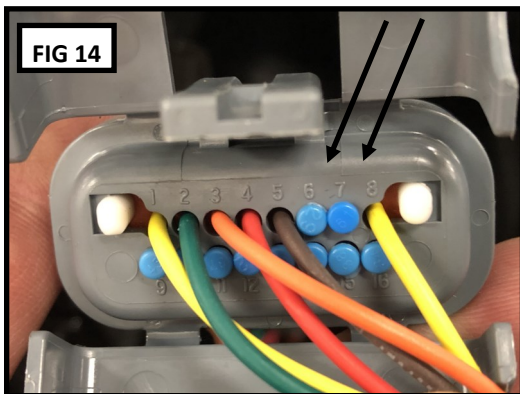
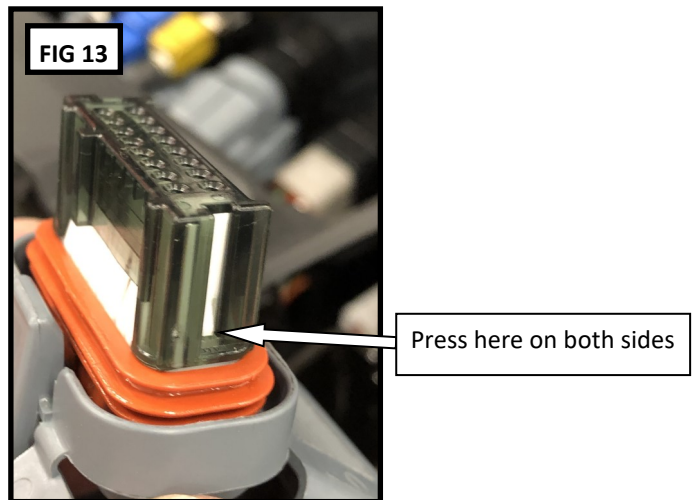
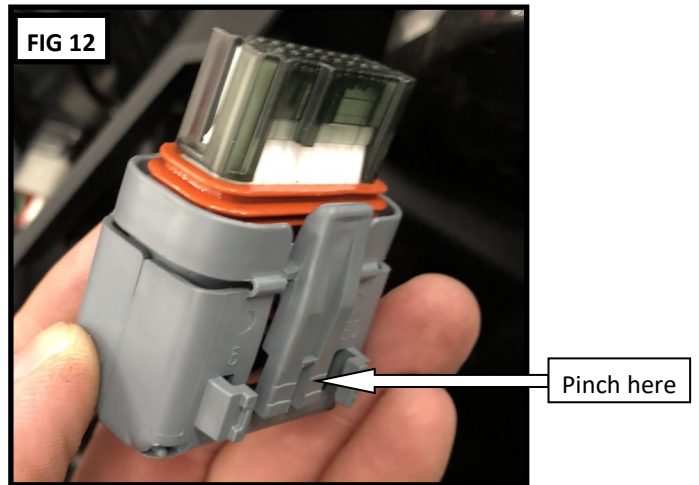
Instructions Continued:

Dash Illumination Pin Installation:

****This step is optional.** The provided rocker switch arrows will flash with the corresponding side's turn lights. To also utilize the OEM dash indicators follow the steps below**

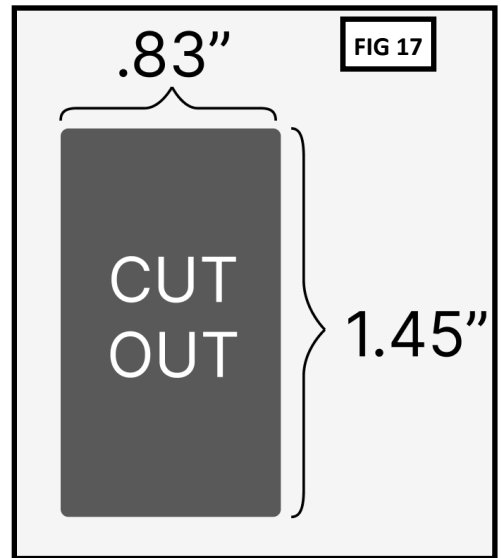
WARNING: disconnect the vehicle battery before attempting any work with electrical components. Locate the battery and remove the negative terminal connection. Ensure the wire is held away from falling back into contact with the terminal.

17. Gain access to the back of the instrument cluster. On some models you can just lower the steering wheel, on others you will need to remove the hood panel above the cluster. **FIG 11**
18. Pinch the tab on the underside of the grey connector and remove it from the cluster. **FIG 12**
19. Remove the dark grey translucent cover by pinching in on the 2 white tabs on the small sides. **FIG 13**
20. Open the back side of the connector and remove the blue pin plugs 6 & 7. **FIG 14**
21. Put the green wire from the dash harness into pin 6 and the yellow into pin 7. **FIG 15**
22. All pins should be at the same height in the connector. Put the translucent pin cover back on and close up the back of the connector. **FIG 16**
23. Reinstall connector into the dash cluster then reassemble the dash.
24. Route and connect the wire to the main harness.



25. Route and connect the dash harness connector to the corresponding connector on the main harness.
26. Locate the positions you want for the horn and turn signal switches. We recommend using factory cutouts that are easy for the driver to reach. If your machine does not have cutouts, then refer to the information below.
 - A. Before cutting a hole, check for anything behind the dash that may interfere, or can be cut in the process.
 - B. Cut out a .83" Width by 1.45" Height in your desired rocker switch location. It may be best to cut the hole on the smaller side of the dimensions and then file the rest to the final size.

Fig 17



25. Route the rocker switch leads from the main harness up to the installed switches. Be sure to keep wires clear of steering components. **FIG 18**
26. Connect the lead with 7 wires to the turn signal switch, and the lead with 2 wires to the horn switch. These are keyed and will only go one way. Note the pin on the switch and hole in the connector in **FIG 19**
27. Install the two 40 amp 5 pin relays into both of the connectors near the main 12 pin connector that's behind the ignition. Either relay will work in either connector.
28. Verify all connections then secure the rest of the wiring harness working out to in. Loop excess loom under the dash or in the center tunnel. Be sure to keep it away from coolant lines/high heat sources, moving parts, and sharp edges.
29. Reconnect battery and verify proper operation of the horn and signals.

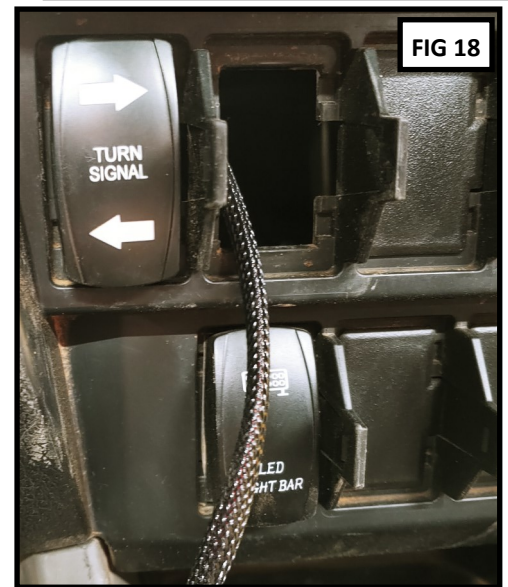


FIG 20

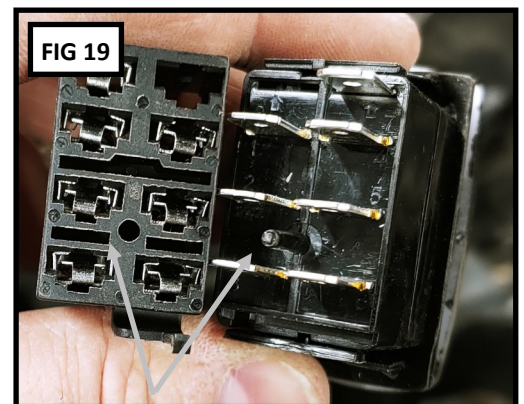


FIG 19

Enjoy the use of your new Tusk
 Plug and Play
 UTV Signal & Horn Kit!