

# Tusk UTV Signal Kit: Polaris RZR Models

Part #: 2102330001, 2102330002



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.*

INSTALLATION INSTRUCTIONS AND INFORMATION

**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 RZR

**Option 1 Additional Parts:**

- Front Button Light Harness (1)
- 3/4" Spade Bit (1)
- Round LED Turn Signals (4-Pack) (1)

**Option 2 Additional Parts:**

- Vehicle specific front accent/turn light(s) (1)

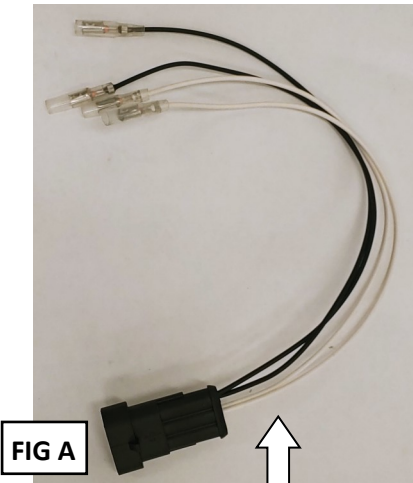


FIG A

Front button light harness

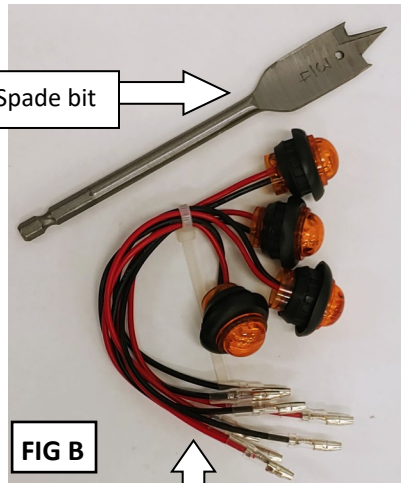


FIG B

Front button lights

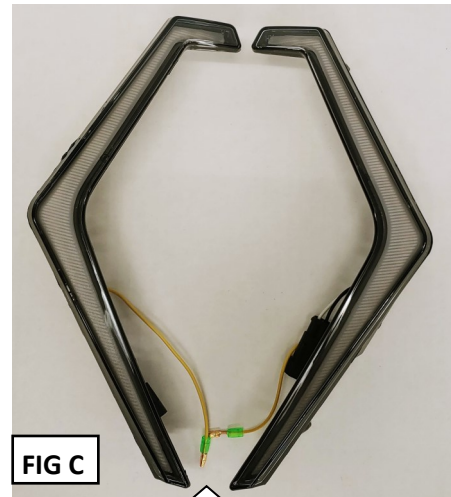
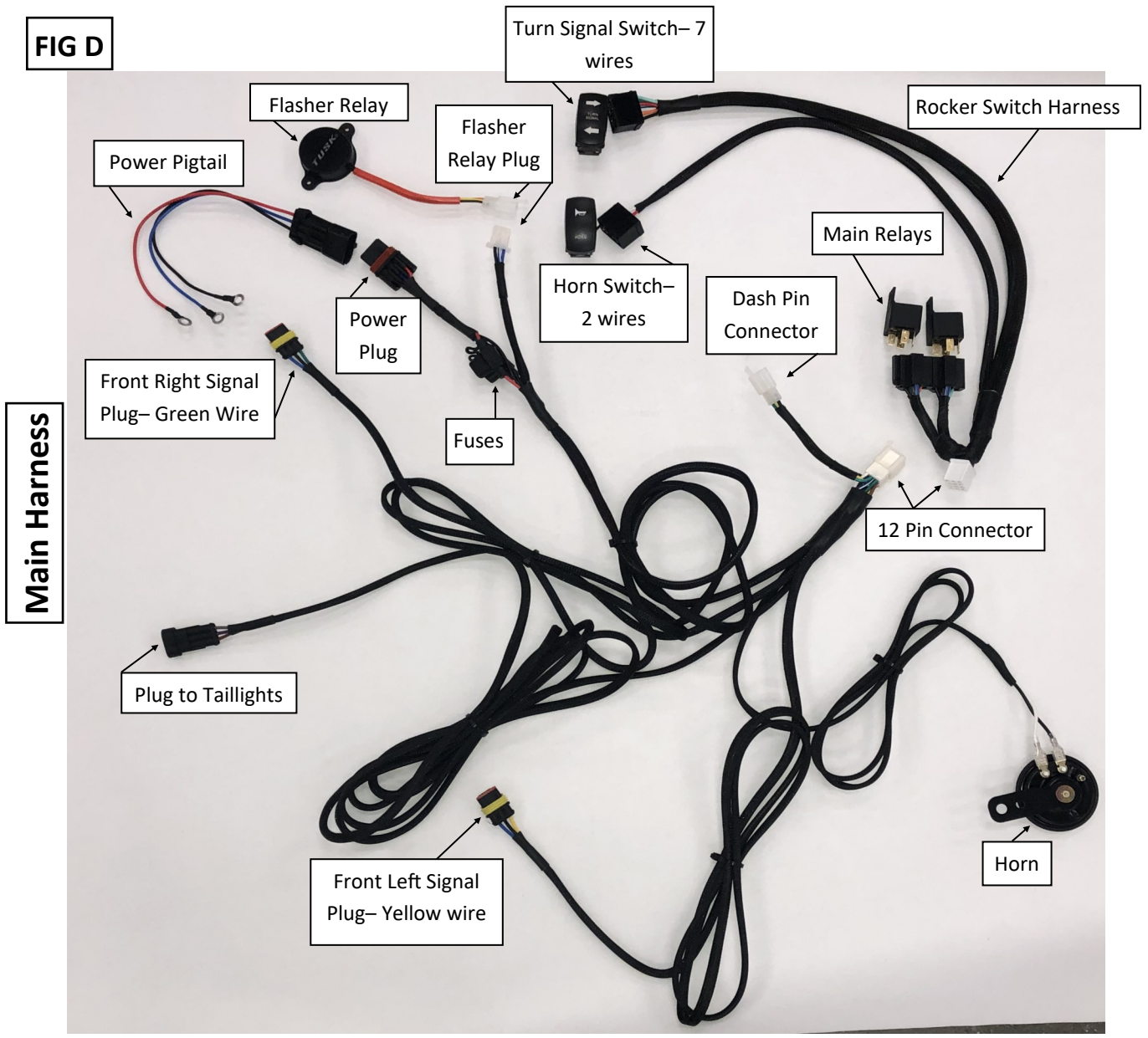


FIG C

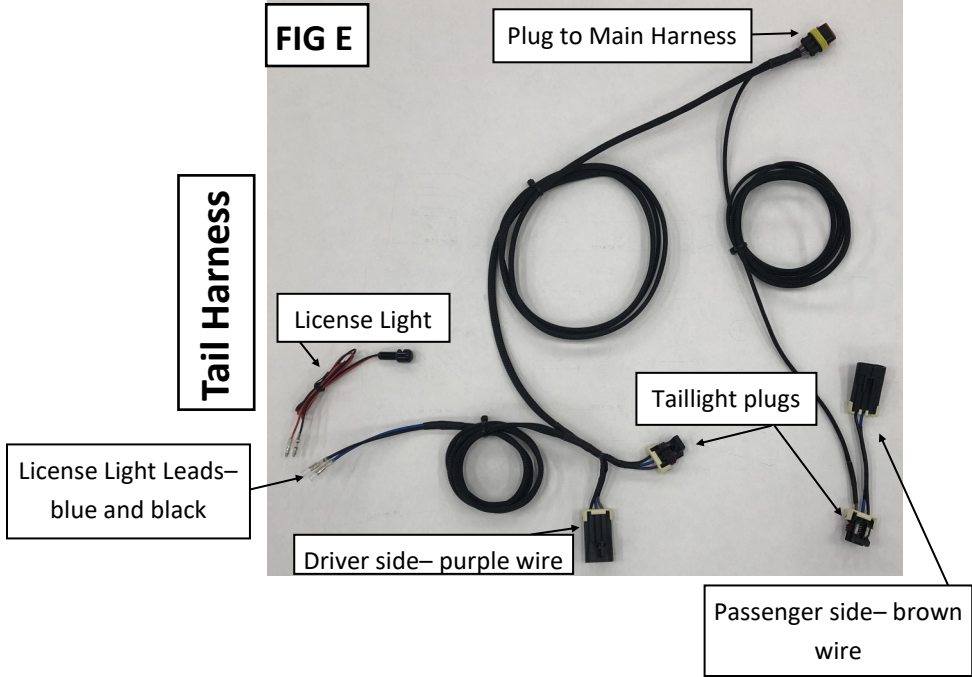
Front turn lights

FIG D

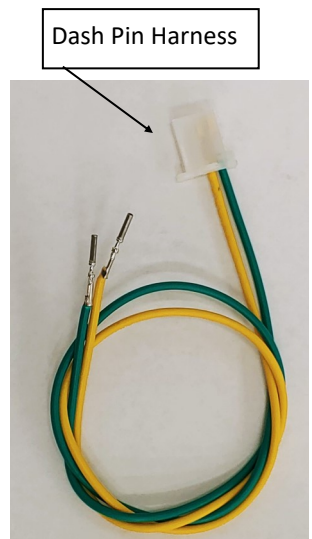


Main Harness

FIG E



Tail Harness



Dash Pin Harness

## **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.

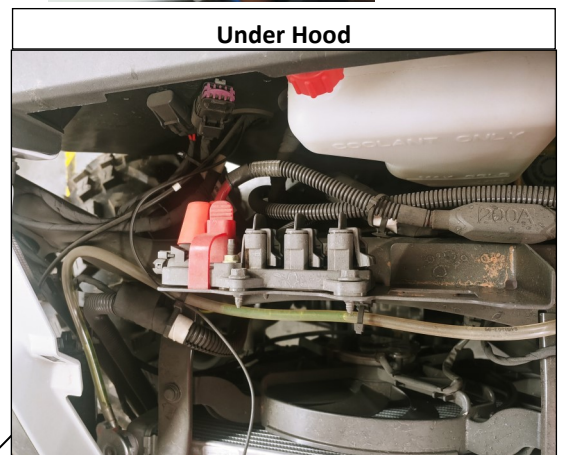
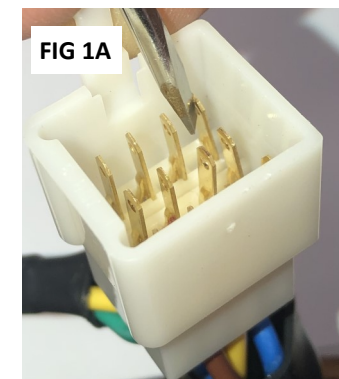
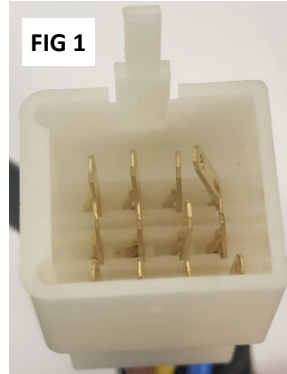
**NOTE:** While routing wires, ensure the wire is secured clear of any hot components such as coolant lines. Keep good clearance from sharp or rotating objects while routing wiring. Do not route wires in a manner that will put strain on the connections.

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. We opted to run wiring under the dash and through the center console for a clean look, however, you may choose to route your harness in a different location.

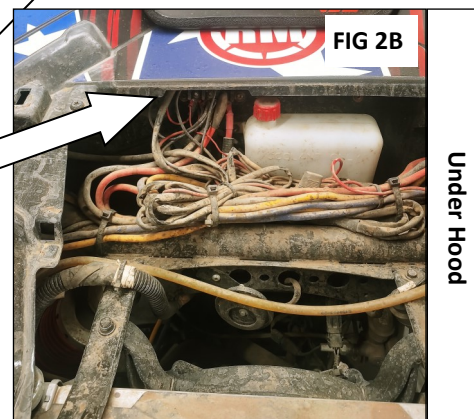
**NOTE:** Occasionally there will be a bent or misaligned pin inside a connector. Check each connector before assembly and carefully adjust any misaligned pins with a pick or small screwdriver. This will ensure a smooth and reliable connection.

(FIG 1/1A)

2. If routing through the tunnel remove seats and tunnel pieces for access.
3. Locate a spot (there are generally precut holes with grommets) in the front bulkhead near the center and pass both front turn signal plugs and the horn leads through.
4. Position the 12 pin connector (FIG 1) so that it is behind the dash, near the center.
5. Run the main harness through the tunnel so the tail harness connector is near the rear firewall and the power plug is close to the terminal block. The terminal block can be in a few different positions depending on the machine model. They are typically either under the hood near the firewall (FIG 2A-2B) or under the center dash storage tray (FIG 2C).
6. Connect the power plug to the terminal block. Newer models may use the sealed 3 pin connector directly. Some models will require the use of the Power Pigtail. Connect the ring terminals on the pig tail with black to ground, red to 12v+ (always on), and blue to accessory.



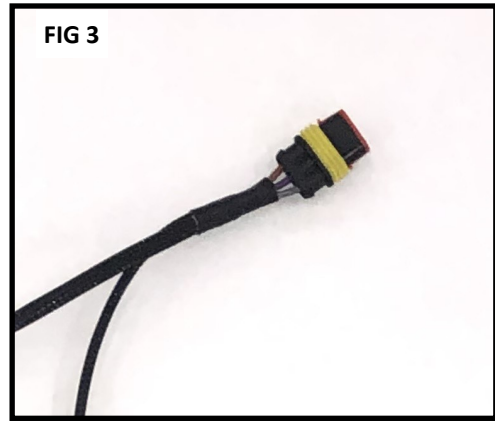
Terminal block



Under Hood

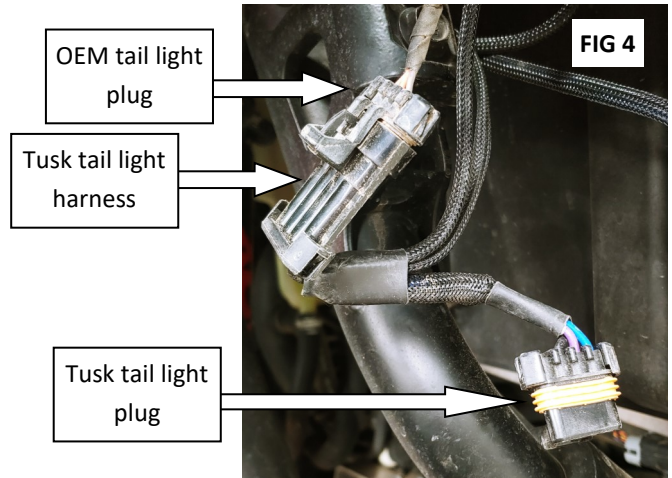
**Instructions Continued:**

7. Feed the main connector for the tail harness (**FIG 3**) through the rear firewall and attach to the main harness.



8. 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 corners.

9. Disconnect OEM tail light plug and plug into the Tusk tail light harness. Then connect the Tusk tail light plug into the tail light. Do this on both sides. **FIG 4**

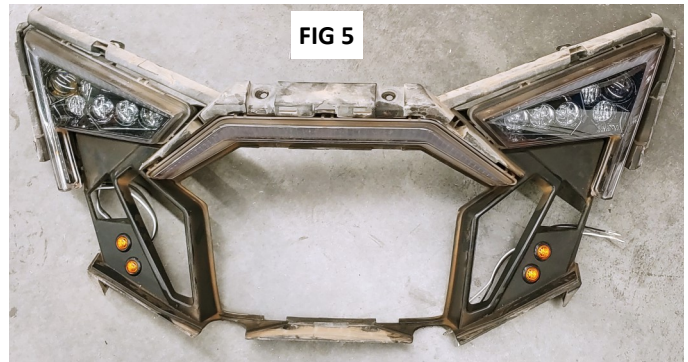


10. Route the license light lead to your desired location. The license light can be used in place of a license plate bolt. Connect the black wires together and the blue from the license light lead to the red on the license light.

11. Secure wiring ,with included cable ties, starting from the tail lights and working forward. Stop once you reach the tail harness to main harness connector.

12. Install front turn lights, if using the button lights continue on to the next step. If using the OEM style front turn lights skip to step 14.

13. Choose locations for installation of the button lights (2 on each side). Verify there are no electrical, cooling, or other components behind the chosen locations.

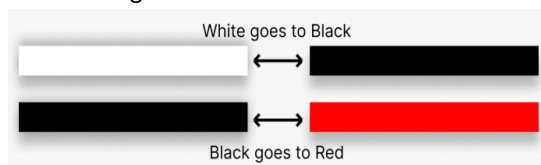


A. It is best to remove the panel(s) that are being drilled (trust us on this one...). Drill the holes with the supplied 3/4" spade bit. Mount them so there is visibility from the front and side.

B. 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" located at the top. **FIG 5**

C. Reinstall any panels that were removed.

D. Connect the button light harness as shown in **FIG 6**. Match the wire colors on the harness to the button lights.



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

**If the wires on the LED's are**

**Black and White:**

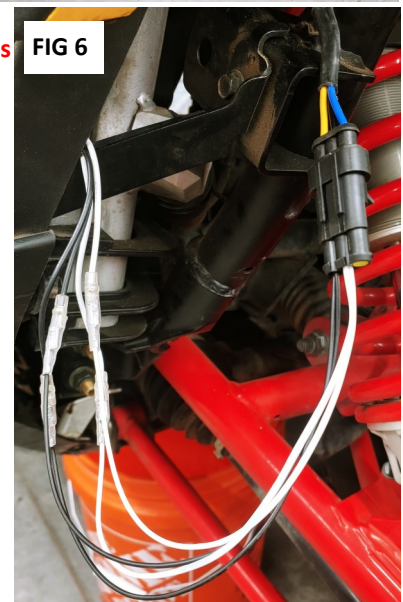
Connect white to white and black to black.

**If the wires on the LED's are**

**Black and White:**

White goes to Black

Black goes to Red



14. For signature lights:

A. Remove the grill insert. There are locking tabs at the top.

**FIG 7**

B. Disconnect the factory fang light plug (if equipped). (Seen in **FIG 8**)

C. There are 3 stamped nuts on each light remove those and pull the OEM light or plastic insert out. **FIG 8**

D. Install the Tusk fang light with the oem stamped nuts that were removed in step 14C.

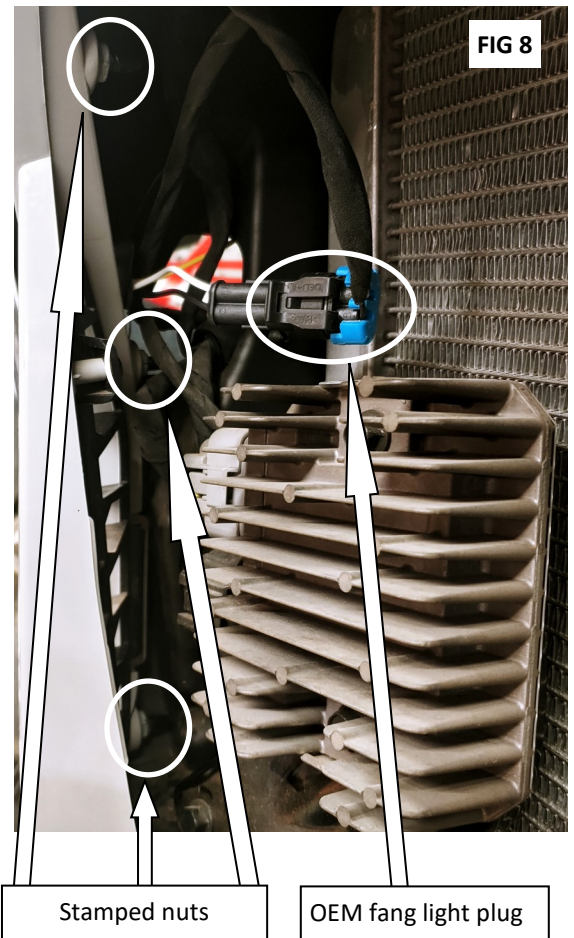
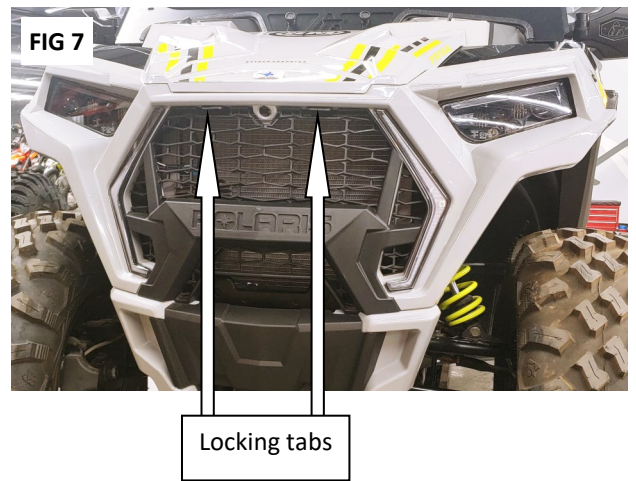
E. Connect the OEM plug into the fang light socket. If your machine did not have OEM lights the plugs will be taped to the wiring harness near each mounting location

F. Use the signal adaptor from the Tusk turn signal plugs to attach to the yellow signal wire lead coming from the Tusk fang lights. The green wire turn signal plug is for the right side and the yellow goes to the left side.

G. Reinstall the grill insert.

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.

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.

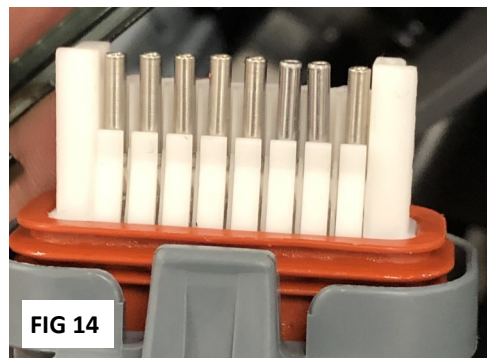
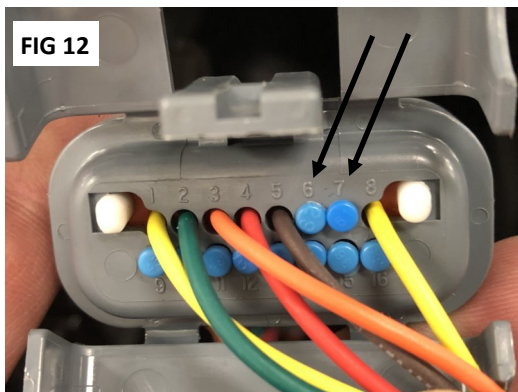
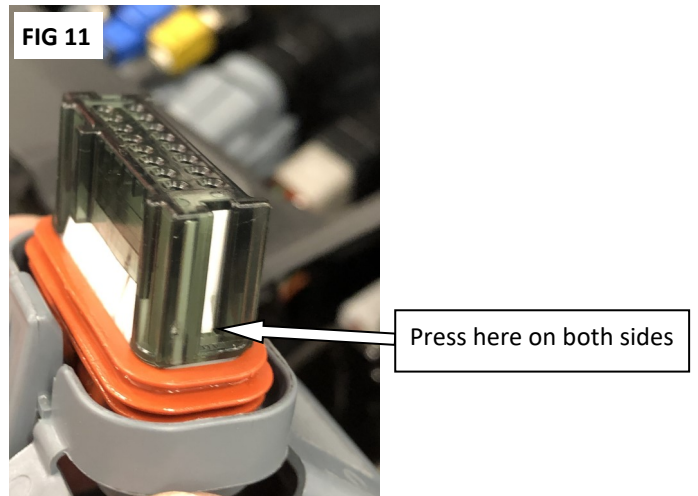
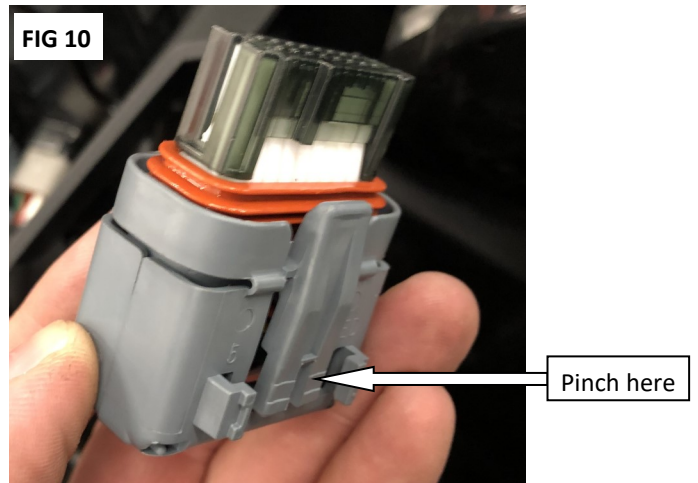


**Dash illumination pin installation:**

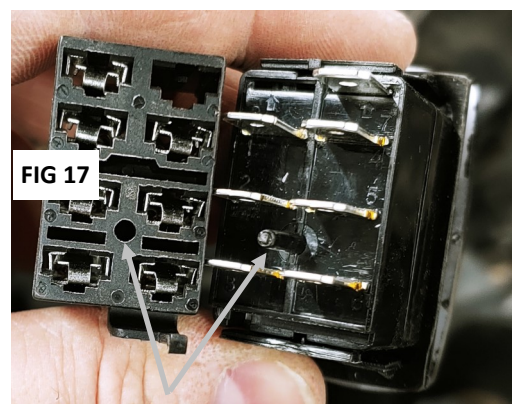
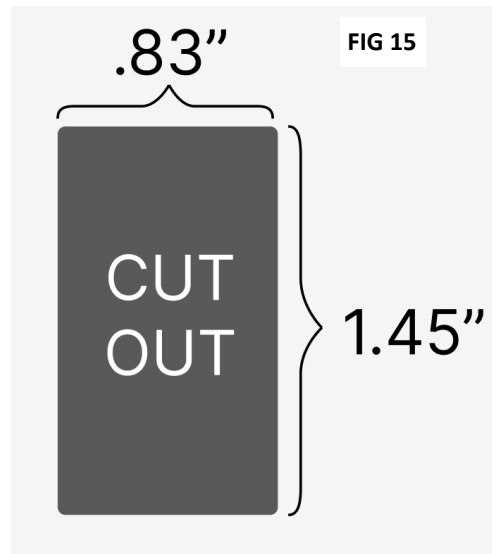
**\*\*This step is optional. The provided rocker switch arrows will flash with the corresponding side's turn lights. To also utilize the OEM dash indicators follow the steps below\*\***

**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 9**
18. Pinch the tab on the underside of the grey connector and remove it from the cluster. **FIG 10**
19. Remove the dark grey translucent cover by pinching in on the 2 white tabs on the small sides. **FIG 11**
20. Open the back side of the connector and remove the blue pin plugs 6 & 7. **FIG 12**
21. Put the green wire from the dash harness into pin 6 and the yellow into pin 7. **FIG 13**
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 14**
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.
  - 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 15**
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 16**
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 17**.
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 and sharp edges.
29. Reconnect battery and verify proper operation of the horn and signals. The horn should function with the key off.



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