



Leaders In Vehicle Integration



### 2014-2019 Toyota Tundra Lightbar

#### Recommended Tools & Safety

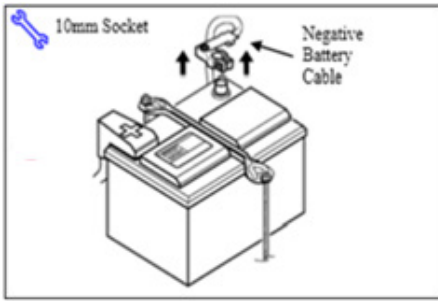
1	Safety Glasses
1	Blanket/Fender Cover
1	10mm wrench
1	10mm socket
1	¼" Drive
1	Razorblade
1	Plastic Trim Tool
1	Wire Router
1	Phillips Head Screwdriver
1	Flashlight
!	Tips: Use 50/50 water/soap mix in spray bottle for wire routing through firewall grommet.

#### Lightbar Kit Contents

Quantity	Description
1	Tundra Lightbar
2	Wiring Harness
4/4	Plastic Insert tabs/Phillips Head Fasteners
1	T-Tap Jumper Wire Light Blue
1	Tundra Switch Panel

### Warning!

The Toyota Tundra Lightbar from NSV International Corp. is intended for Off-road use only. Full Lightbar function, Swiping Function and Strobe Functions are to be used under operator's discretion. NSV International Corp holds no responsibility for any consequences, legal, or other, of such use and/or misuse.



### Prior to Installation:

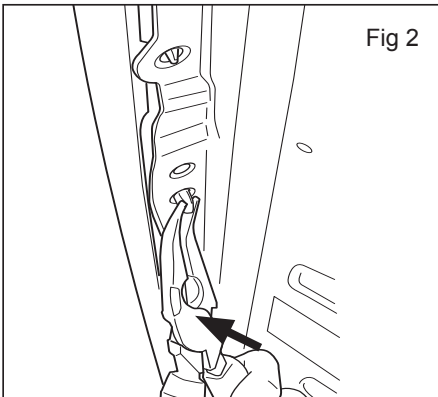
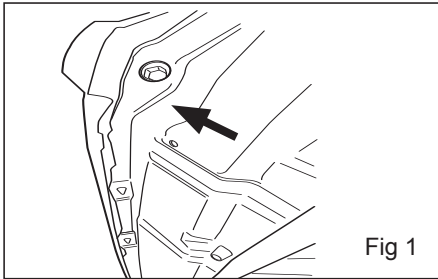
Remove the Negative Battery Cable.

- 1 Protect the Fender before starting.
- 2 Note the Battery Cable position, as it will be reinstalled in the same position.

**Do not touch the positive battery terminal.**

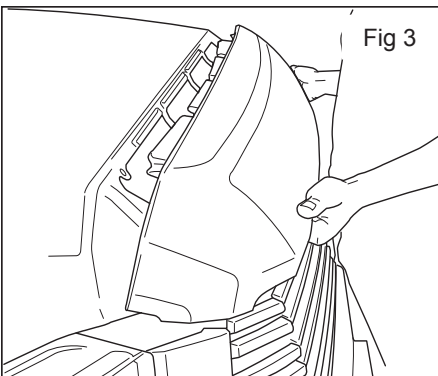
### Vehicle Disassembly

1. Open Hood using interior hood release. Remove three 10mm bolts from hood vent. (Figure 1)

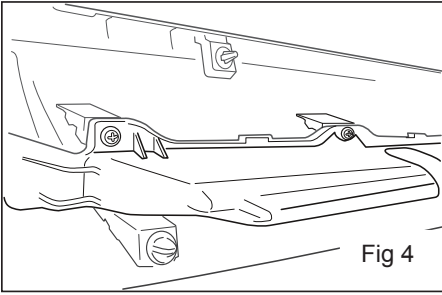


### Vehicle Disassembly

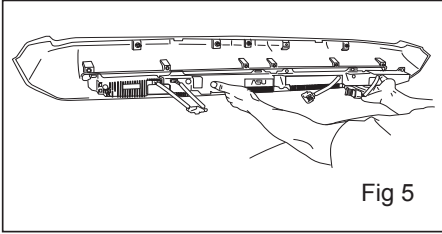
2. Remove 3 pop clips. (Using pliers make sure you squeeze side of pop clips.) (Figure 2)



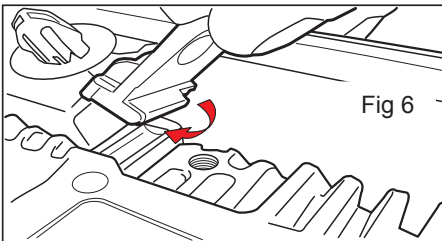
- 3 Remove hood vent by pulling up and outwards releasing hood vent. (Figure 3.)



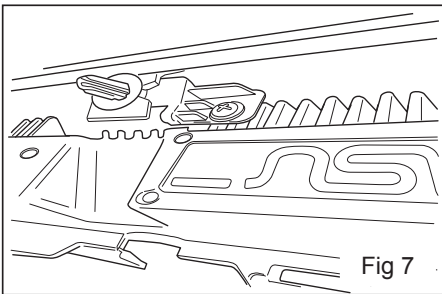
4. Using a work bench place hood vent down and remove all screws from plastic vent with a Philips screwdriver. (Figure 4)



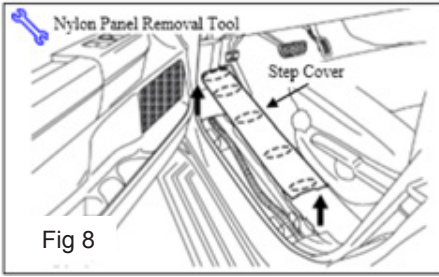
5. Insert Lightbar into hood vent opening using original hardware. (Figure 5)



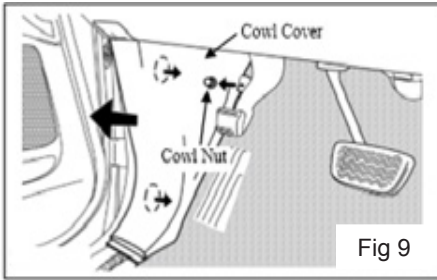
6. Align all plastic insert tabs to lightbar mount points. (Figure 6)



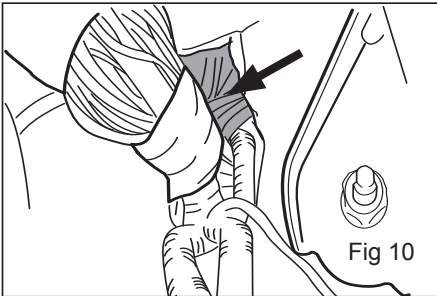
7. Using small Phillip's head screwdriver tighten the plastic insert tabs to the mount points. (Figure 7)



8. Remove the driver's side step cover. Begin by protecting the vehicle interior or with blankets. (Figure 8)



9. Remove the drivers cowl cover. Remove 1 cowl nut. (Figure 9)



10. Push the 6-pin wires through the interior firewall into the engine bay. This picture shows the grommet in the firewall just behind the Cowl Cover. There is a factory access nipple on the grommet; cut the nipple off and push the harness through.

**NOTE:** Recommended to use soap/ water mixture to help push harness through firewall grommet. (Figure 10).

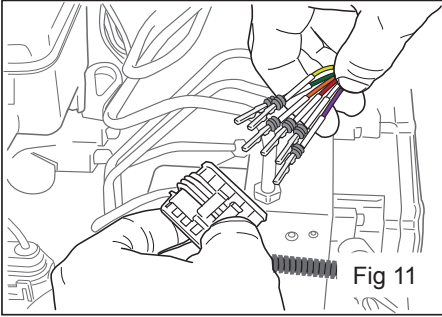


Fig 11

11. Pull through 12 inches of harness through the firewall from interior into the engine bay. Connect the wires into the 6 pin black connector. There are numbers on the connector that correspond to the numbers on the wire harness; populate the connector. (Figure 11 & 12)

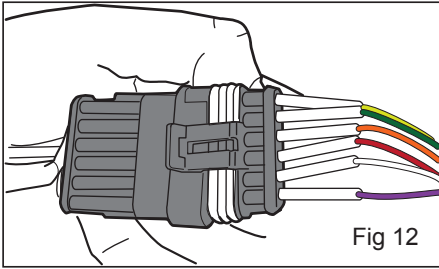


Fig 12

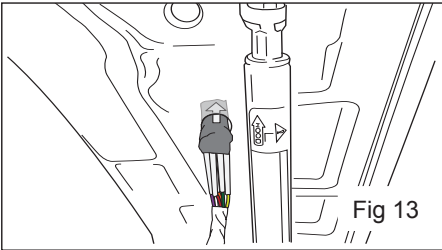


Fig 13

12. Route the harness with 12 loose pins, tape them together with electrical tape and route the wires through the hood, as shown. There are two holes; use the closest one to your vehicles firewall. (Figure 13)

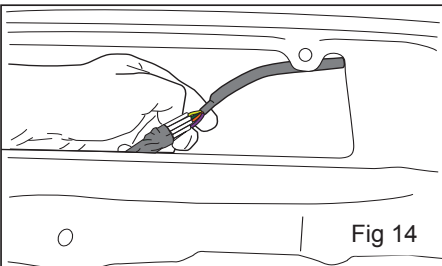


Fig 14

13. Pull 55 inches of harness through with your left hand while feeding the slack with your right. (Figure 14)

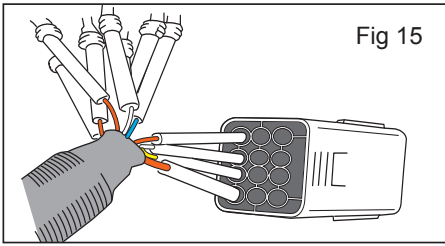


Fig 15

14. Populate the lightbar connector.

**Note:** If there is no PIN 3 on the lightbar harness, do not populate PIN 3, skip and continue. (Figure 15)

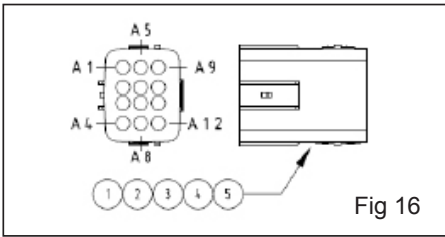


Fig 16

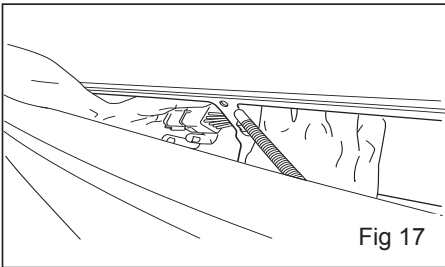


Fig 17

15. Connect the Lightbar harness and reassemble the hood vent with lightbar installed. Assemble the same way as disassemble in steps 1 - 3. (Figure 17)

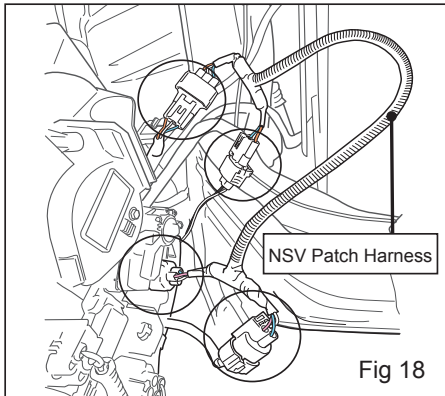


Fig 18

16. The Blue, White, Orange connector will plug into the headlight connection. The OEM headlight connector will plug into our NSV Patch Harness.

The Purple, Blue, White connectors will plug into the Headlight motor connection. The headlight motor OEM connector will plug into our NSV Patch Harness. (Figure 18)

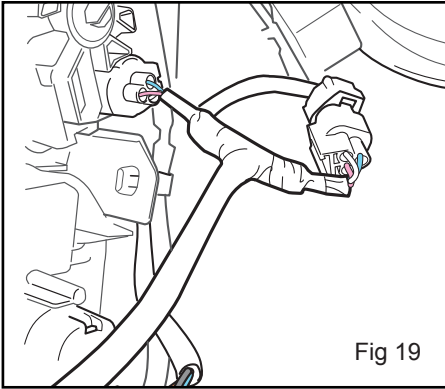


Fig 19

17. Closeup picture of the Purple, Blue, White Patch connection to headlight motor and Plug. (Figure 19)

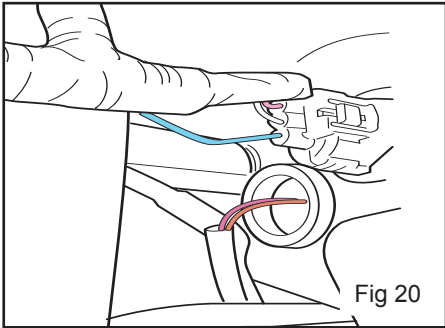


Fig 20

18. Non DRL SR5 Base Model Headlights 014-2017: No cutting of blue wire needed on our NSV Patch Harness connected to Headlight housing. DRL & LED Headlight Version Models 2014-2019: You will need to only cut the blue wire as shown in picture.

**Note: You can only cut the blue wire from the NSV Patch connected to the headlight housing. If you cut anywhere else this will cause lightbar operation issues.**

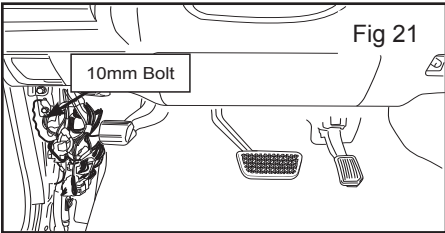


Fig 21

19. Remove two 10mm bolts in order to drop the bottom drivers dash panel. (Figure 21)

**Warning: Do not pull on the SRS Airbag dash panel, this panel is to be left alone. Lower Dash panel removes without SRS airbag panel.**

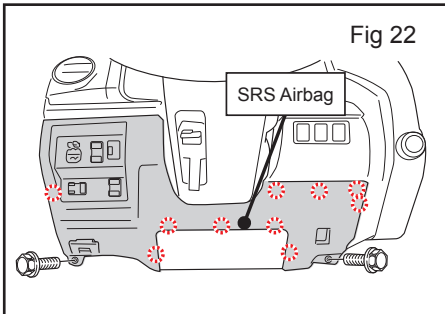
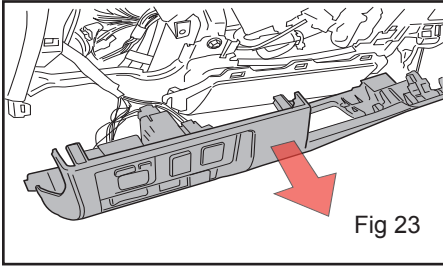


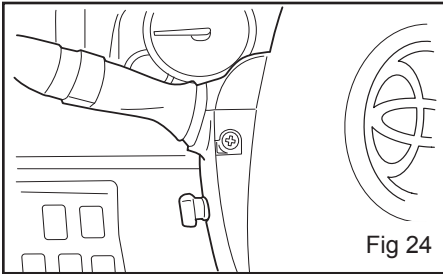
Fig 22

20. Using a Plastic Trim Pry Tool work around the drivers dash panel to pop clips out. The red and white circles are where your pop clips are holding the lower dash panel together. (Figure 22)

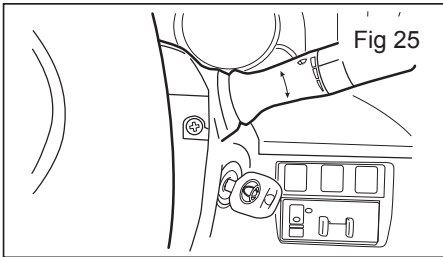
**Warning: Do not pull on SRS Airbag in the lower dash panel, this panel is to be left alone. Lower Dash panel removes without SRS airbag.**



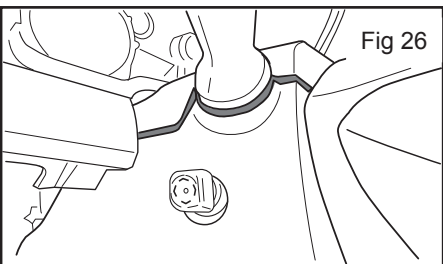
21. Picture of the lower dash panel pulled out.  
**Notice SRS Airbag panel stays intact.**



22. **Warning:** You will need to make sure your steering column is to the furthest point towards you sitting in the driver seat. This enables enough slack for the wire you will be installing into the steering wheel roll connector. If the steering column is not completely forward connect the battery to move the column then disconnect when you're done.



Once you have uninstalled the lower dash panel you will need to access the steering column. Take the two Philips head screws out of the steering column housing. Shown in (Figures 25 & 26) turn the steering wheel clockwise and counter clockwise to reach these screws.



- Note:** Insert your car key and turn to on position so your steering wheel does not lock when turning the wheel.



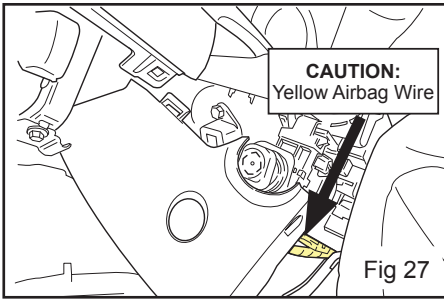


Fig 27

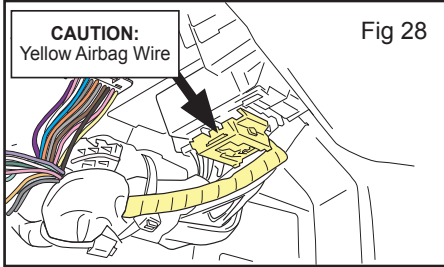


Fig 28

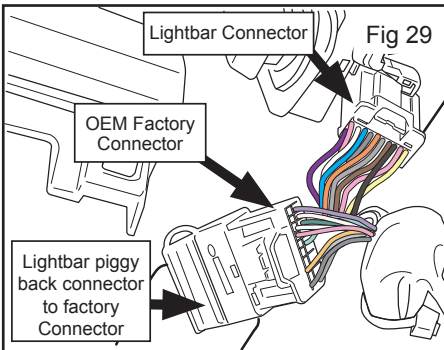


Fig 29

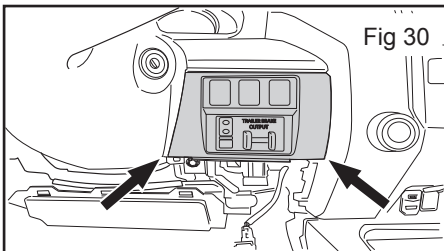


Fig 30

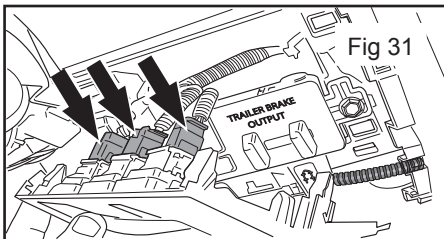


Fig 31

23. Feed the bottom steering column cover around the telescoping button. (Figure 27)

**Caution: Do not touch or disconnect the yellow wire!!! This is your SRS Airbag Wire. (Figure 27 & 28)**

**Caution: Do not touch or disconnect the yellow wire!!! This is your SRS Airbag Wire. (Figure 27 & 28)**

24. Unplug OEM Factory Connector from (A). Plug Lightbar Connector into (A). Take Piggyback connector (C) and plug OEM Factory Connector (B).

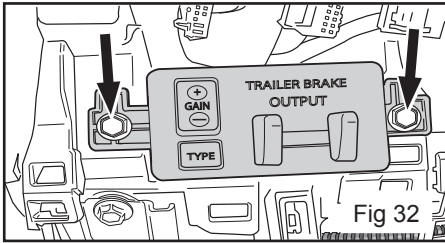
**Note:** Picture shown is everything connected properly.

25. **2014-2017 Models Follow** Trailer Brake Install: Pop Trim off around Trailer Brake Output. Shown in (Figure 30)

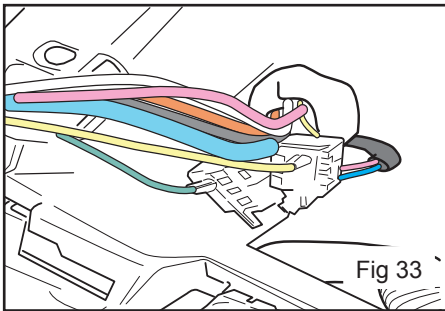
**2018-2019 Models:** you will need to connect the T-Taps to your cigarette lighter outlet and not the Trailer

Brake wires. Connect both wires onto the power side of the cigarette lighter

26. Once you pulled the trim out disconnect the switches from the trim to make room. (Figure 31)



27. Using 10mm socket take both bolts out shown in (Figure 32)



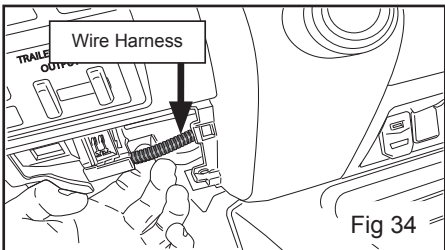
28. Route the lightbar harness with the T-Tap connectors into the back of the Trailer Brake Output.

**Red/Black Wire T-Tap connects to Yellow Wire (12V Ignition)**

**Blue Wire T-Tap connects to Green Wire(Illumination)**

**Note:** On the trailer brake harness you will need to cut away some factory insulation to find your yellow and Green wire. (Figure 33)

**2018 Models** you will need to connect the T-Taps to your cigarette lighter outlet and not the Trailer Brake wires. Connect both wires onto the power side of the cigarette lighter.



29. Once you finished with the T-Taps on the Trailer brake, route the harness through to the back of your Cigarette/USB panel. (Figure 34)

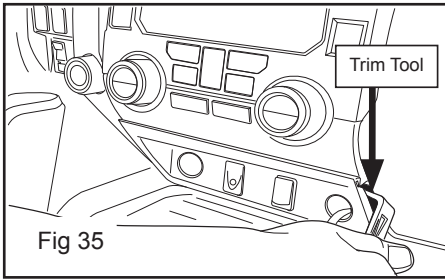


Fig 35

30. Pop out your Cigarette/USB panel using plastic trim tool. Work around outer panel work the pop clips out. (Figure 36)

Reference (Figure 35) to see where the clips are holding the panel in place.

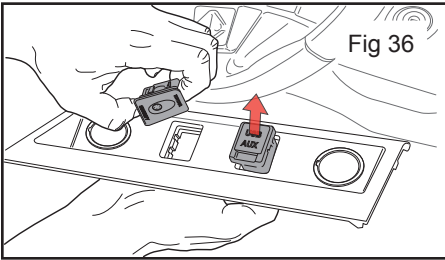


Fig 36

31. Pull OEM Panel Out as Shown in (Figure 36). Pull out Switch Knockouts. On (Figure 37) you will insert the factory components into the NSV Lightbar Switch Panel.

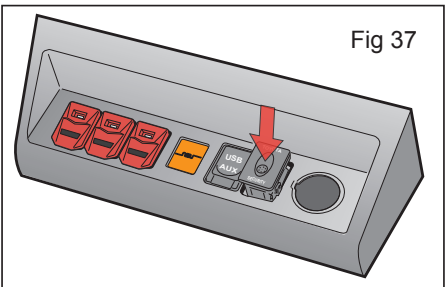


Fig 37

32. (Figure 37) Shows the new NSV switch panel with your factory components added.

Note: You will lose one cigarette lighter outlet due to the new Lightbar switches.

**NSV Has a solution on (Figure 38 & 39)**

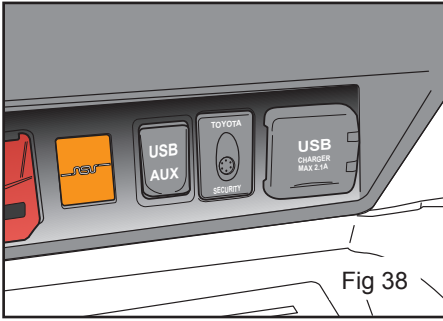


Fig 38

33. This unit can replace your cigarette lighter with a dual plug. Charges quicker than factory.

Universal Dual USB charging port:  
2.1Amps per USB Port  
Black in color

USB Charger laser cut in front cover

White LED backlit  
(Figure 40 & 41)

Call or email if interested:

NSV International  
1250 East 29th Street  
Long Beach, CA 90755  
[www.nsvauto.com](http://www.nsvauto.com)

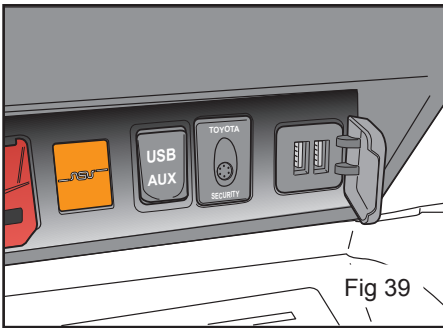


Fig 39



### Switch Panel Functions

- (A) Lightbar: Select Headlight Switch from auto to on. Press High beams switch forward to activate Lightbar.
- (B) Swipe: Press Switch To Activate.
- (C) Strobe: Press Switch To Activate.