



**POLARIS RANGER XD 1500 2024+
GEN3 SPEAKEASY
TURN SIGNAL KIT**

WITH WHITE RUNNING LIGHTS



INSTALLATION INSTRUCTIONS



RAVEK

POLARIS RANGER XD 1500 2024+ **GEN3 SPEAKEASY TURN SIGNAL KIT**

Part #: 64-110SL Fitment: POLARIS RANGER XD 1500 2024+

TOOLS NEEDED:



*Push Pin
Pliers*



Pick



*4mm Allen
Wrench*



*5mm Allen
Wrench*



Ratchet



*10mm
Socket*



*Wire Fish**

PARTS INCLUDED:

- **Controller (1x)**
- **Insert with Apex Light (2x)**
- **Horn (1x)**
- **Power Harness (1x)**
- **Turn Lever (1x)**
- **License Plate Bracket (1x)**
- **Dash Indicator Harness (2x)**
- **Wireless Receiver (1x)**
- **Input Harness (1x)**
- **Output Harness (1x)**
- **M6 Flat Washer (2x)**
- **M5 x 0.8 x 6mm Allen Screw (4x)**
- **M6 x 1.0 x 10mm Allen Screw (4x)**
- **M6 x 1.0 x 16mm Allen Screw (2x)**
- **Adhesive Promoter Wipe (1x)**
- **Rubbing Alcohol Wipe (1x)**

Notice: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

INSTALLATION VIDEO GUIDE

SCAN CODE FOR VIDEO WALKTHROUGH:

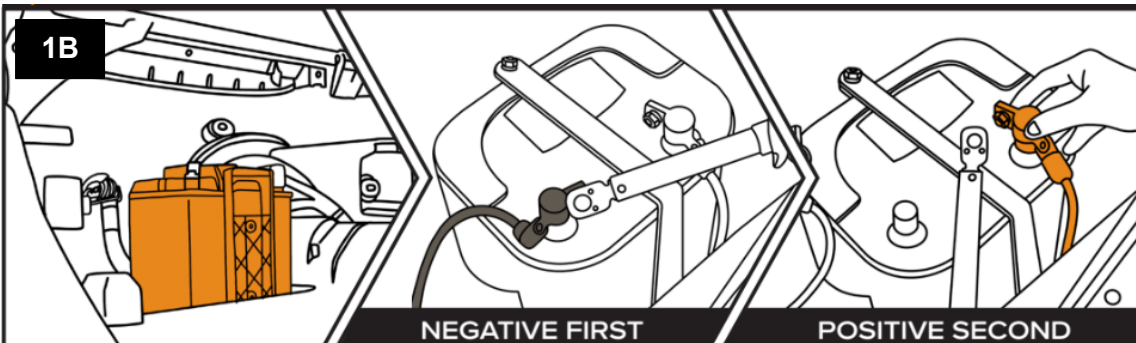
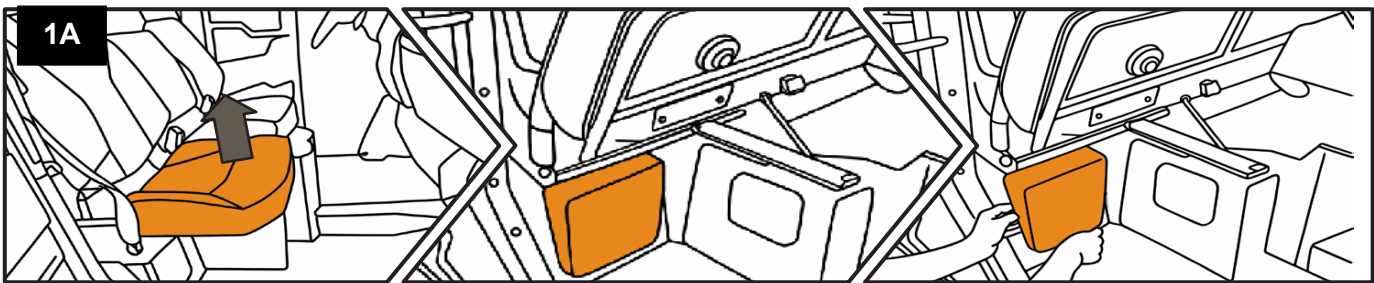


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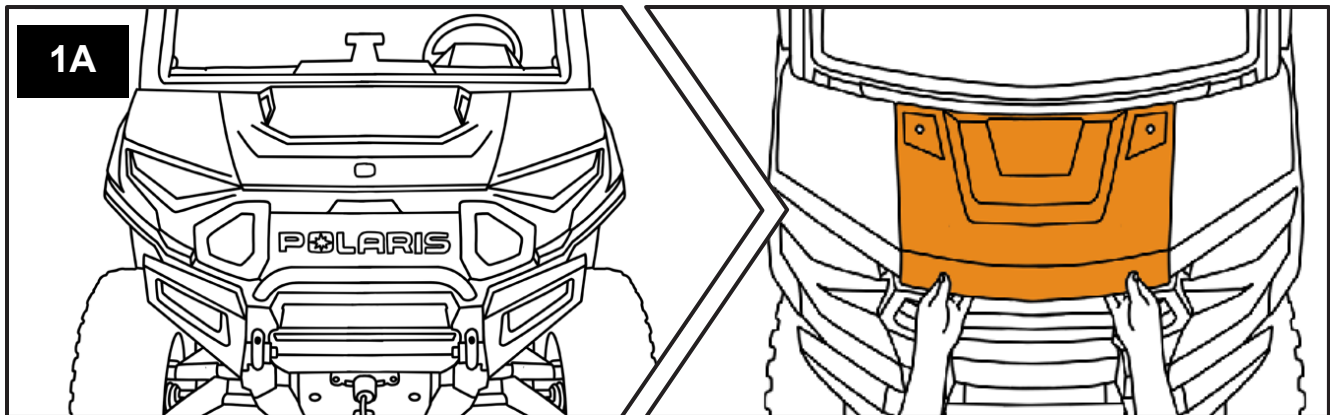
DISCONNECT BATTERY

1

- Before you begin the installation, disconnect the battery to prevent any electrical damage.
- Tilt the passenger seat to access the battery tray located beneath the seat:
 - 2-door models: battery is located under the front passenger seat.
 - 4-door models: battery is located under the rear passenger seat.
- Once the seat is tilted forward, remove the battery panel/tray to fully expose the battery and provide enough working space for disconnecting the terminals.
- Using a 10 mm wrench, disconnect the battery terminals in the correct sequence:
 - Remove the negative (ground) cable first to eliminate the risk of accidental grounding.
 - Then remove the positive cable to fully isolate the battery from the vehicle's electrical system.
 - This order helps prevent accidental sparks or short circuits during installation.
- For visual guidance, refer to [FIGS. 1A & 1B].

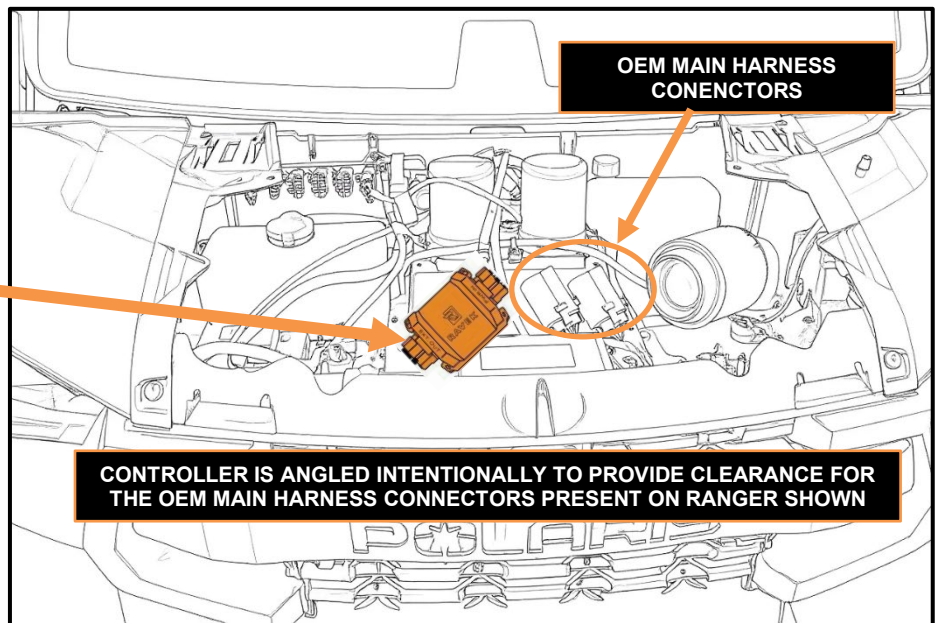
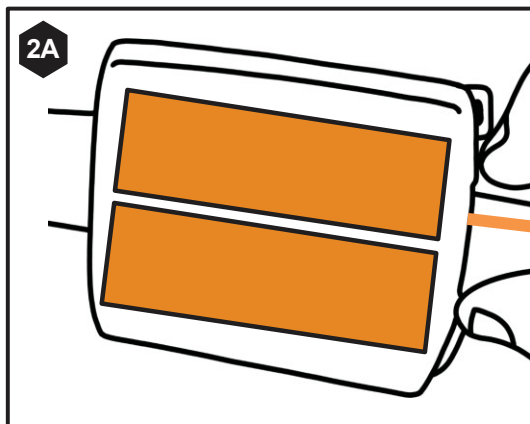


- Move to the front of the machine to access the hood area.
- Locate the two twist-lock knobs that secure the hood in place.
- Release both twist-lock knobs by turning them counterclockwise until they disengage.
- Once unlocked, slide the hood forward to disengage it from the front mounting points.
- With the hood fully released, lift it upward and remove it completely from the machine to open the front access area.
- See FIG. 1A for visual guidance.

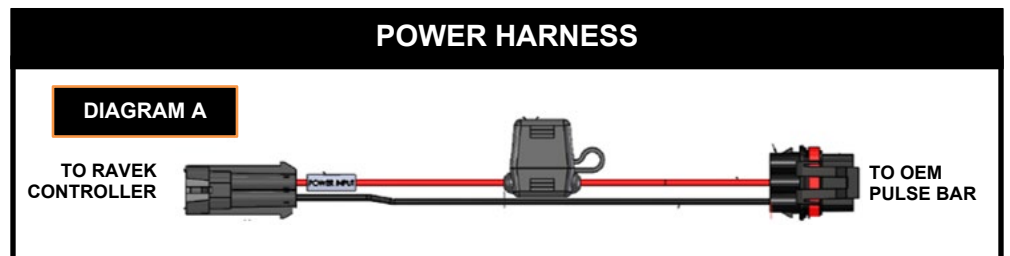
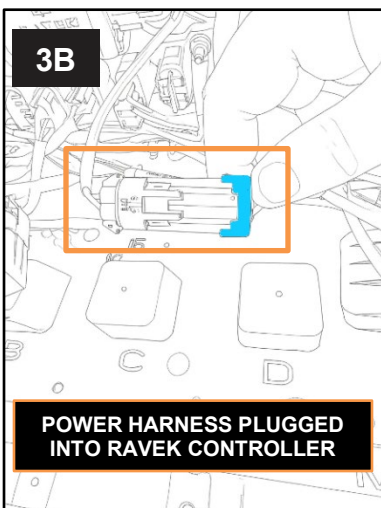
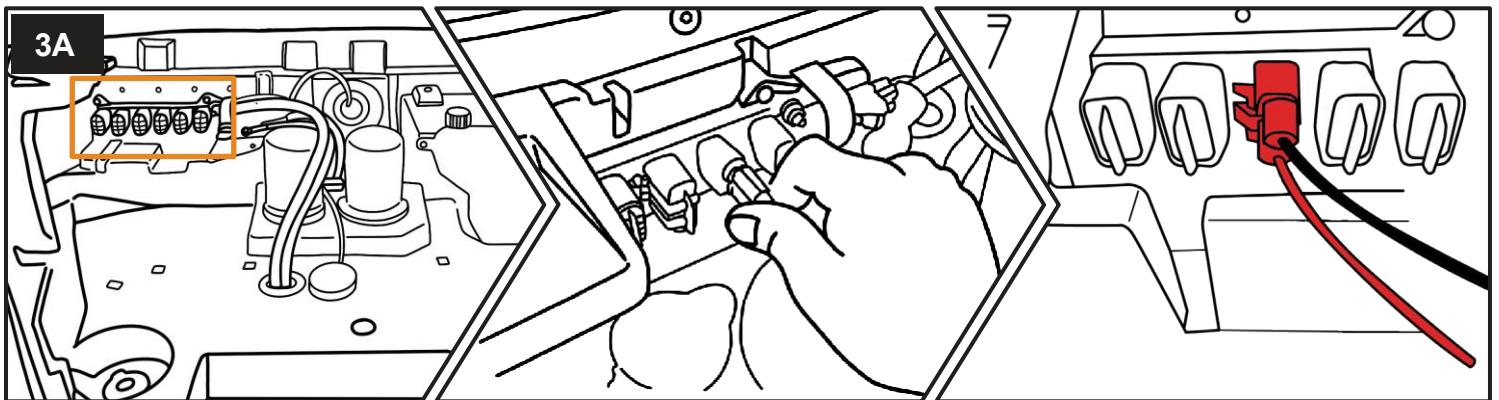


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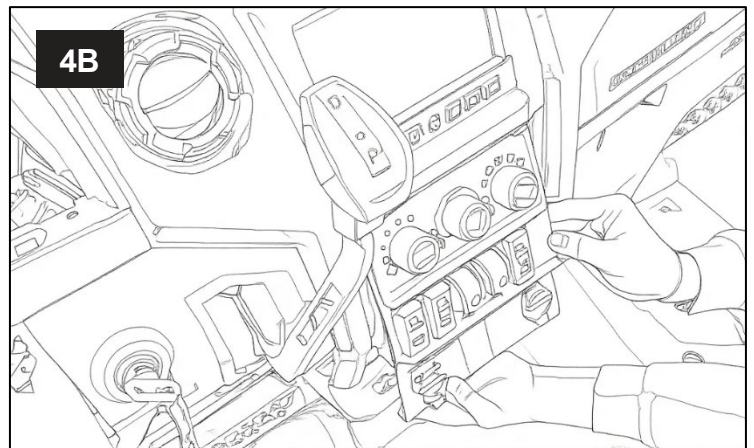
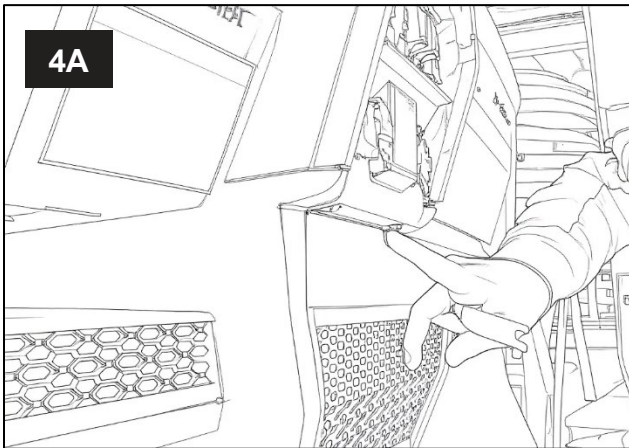
- With the hood removed, move to the area under the hood to mount the turn signal controller.
- Identify a flat, clean mounting surface beneath the hood where the controller can be securely installed.
- Prepare the surface by first wiping it down with the supplied alcohol wipe to remove dust, debris, or grease.
- After cleaning, apply the adhesive promoter to the same area to ensure maximum adhesion.
- Allow the prepared surface to dry completely before proceeding.
- Once dry, mount the turn signal controller using the double-sided tape pre-installed on the controller, pressing firmly to secure it in place as shown. SEE FIG. 2A for visual guidance.



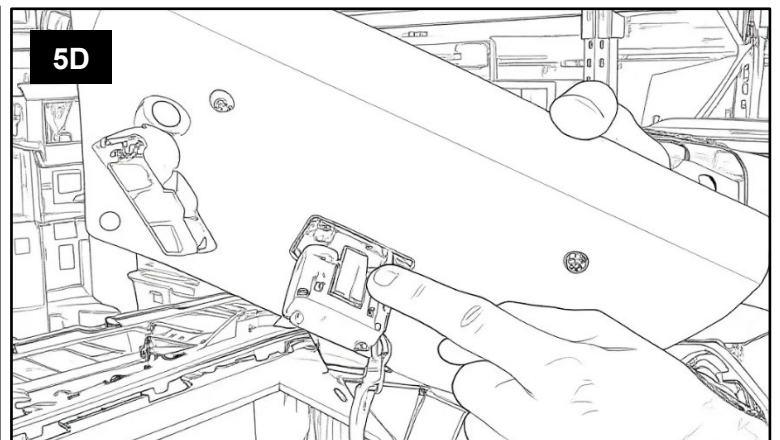
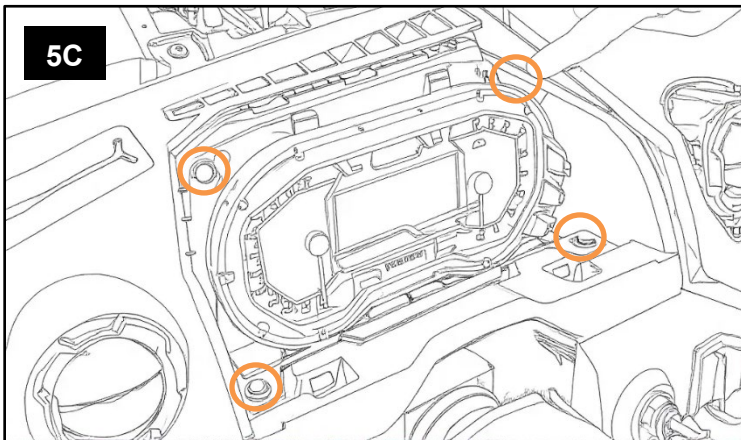
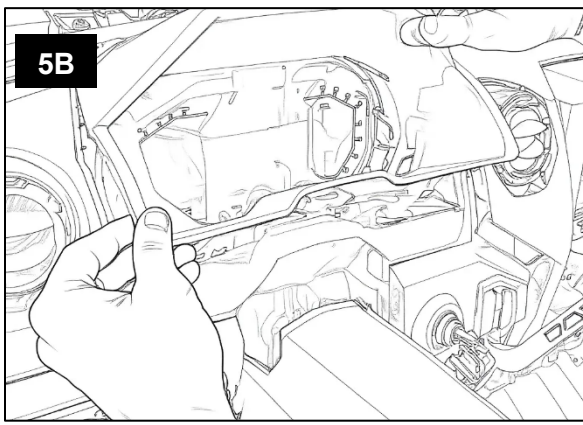
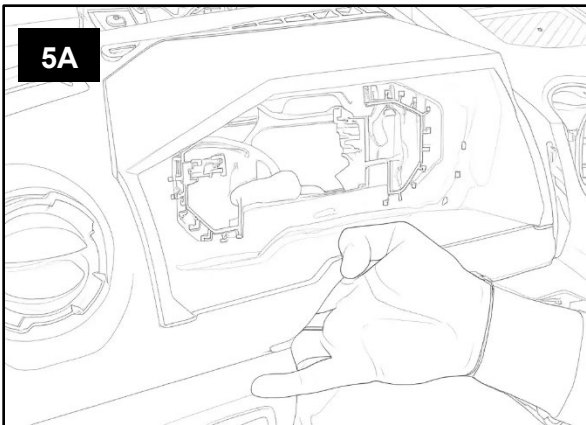
- Under the hood, locate the pulse bar where accessory power connections are made.
- Identify an open power port on the pulse bar and remove the dummy plug that is currently installed.
 - A **SMALL FLATHEAD SCREWDRIVER** may be helpful for gently prying the dummy plug out.
- After the dummy plug is removed, take the supplied power harness from your kit and plug it into the now-open port on the pulse bar.
 - SEE FIG. 3A & DIAGRAM A for visual orientation.
- Next, follow the opposite end of the power harness and connect it to the wire labeled “POWER” coming from the RAVEK turn signal controller.
 - SEE FIG. 3B & DIAGRAM A to ensure correct identification and routing.



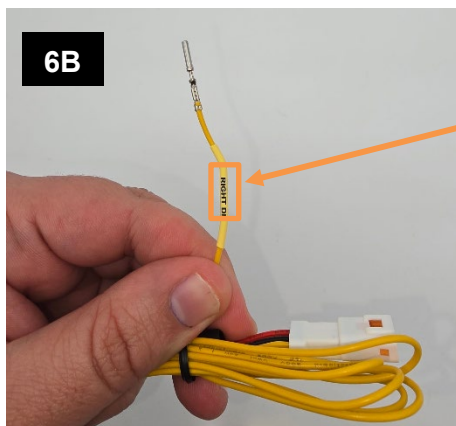
- Move to the dash area of the Ranger XD 1500 to access the switch panel.
- Using a pair of **PUSH-PIN PLIERS**, remove the two push pins located underneath the switch panel. [SEE FIG. 4A]
- Once both push pins are removed, gently pull the switch panel outward from the dash to create an opening.
- Allow the switch panel to hang in place—there is no need to disconnect any rocker switches or fully remove the panel from the machine. [SEE FIG. 4B]
- This step is done solely to provide easier access for routing wiring from the front of the machine into the dash area in the upcoming steps.



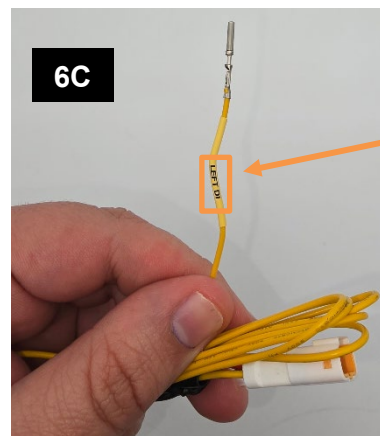
- Move to the dash area of the Ranger XD 1500 to access the gauge cluster trim panel. [SEE FIGS. 5A & 5B]
- Lower the steering wheel to its lowest position for maximum clearance.
- With the steering wheel fully lowered, reach underneath the dash and release the two white plastic retaining clips that secure the trim panel from below.
- After both clips are released, carefully pull the trim panel outward to remove it and expose the gauge cluster.
- With the gauge cluster now visible, use **PUSH PIN PLIERS** to remove the four push-pin fasteners, one at each corner of the display. [SEE FIG. 5C]
- Gently pull the gauge cluster forward to access the rear connector, then unplug the connector to fully release the cluster. [SEE FIG. 5D]
- **NOTE:** Unplugging the gauge cluster requires moderate thumb pressure to release the OEM tab. **Scan Tech Tip QR code below for guide on cluster plug release.**



- Grab the dash indicator harnesses included in your kit, see FIG. A.
- Plug each harness into the correctly labeled ports on the turn signal controller (see **Turn Signal Kit Wiring Diagram in Page 27 & 28 for reference**):
 - RIGHT TURN (RAVEK controller) → RIGHT TURN (dash indicator harness) see FIG. 6B.
 - LEFT TURN (RAVEK controller) → LEFT TURN (dash indicator harness) see FIG. 6C
- Once both harnesses are connected, route the yellow wires with pins on the ends forward toward the firewall grommet Wiring Diagram in Page 27 & 28 shows firewall grommet location.
- Feed the wires through the firewall grommet and into the dash area.
 - Using a wire fish can help, but it is not required—the wires can be fed through by hand.
- Continue routing the wires up toward the gauge cluster opening, ensuring they are not pinched, strained, or routed near moving components.
- This routing is necessary because, in the next step, you will connect the DI wires to the OEM gauge cluster connector, which enables proper dash indicator functionality.



RIGHT DI



LEFT DI

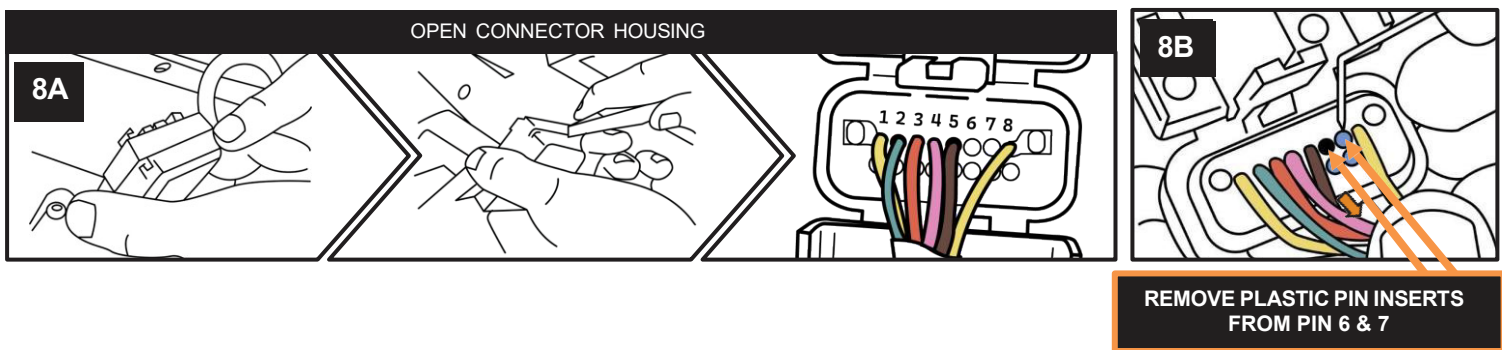
7

- Using a **PICK TOOL**, release the locking tabs on both sides of the connector cover. See FIG. 7A.
- Carefully pry the cover upward until it loosens, then remove it completely from the connector see FIG. 7A for visual guidance.

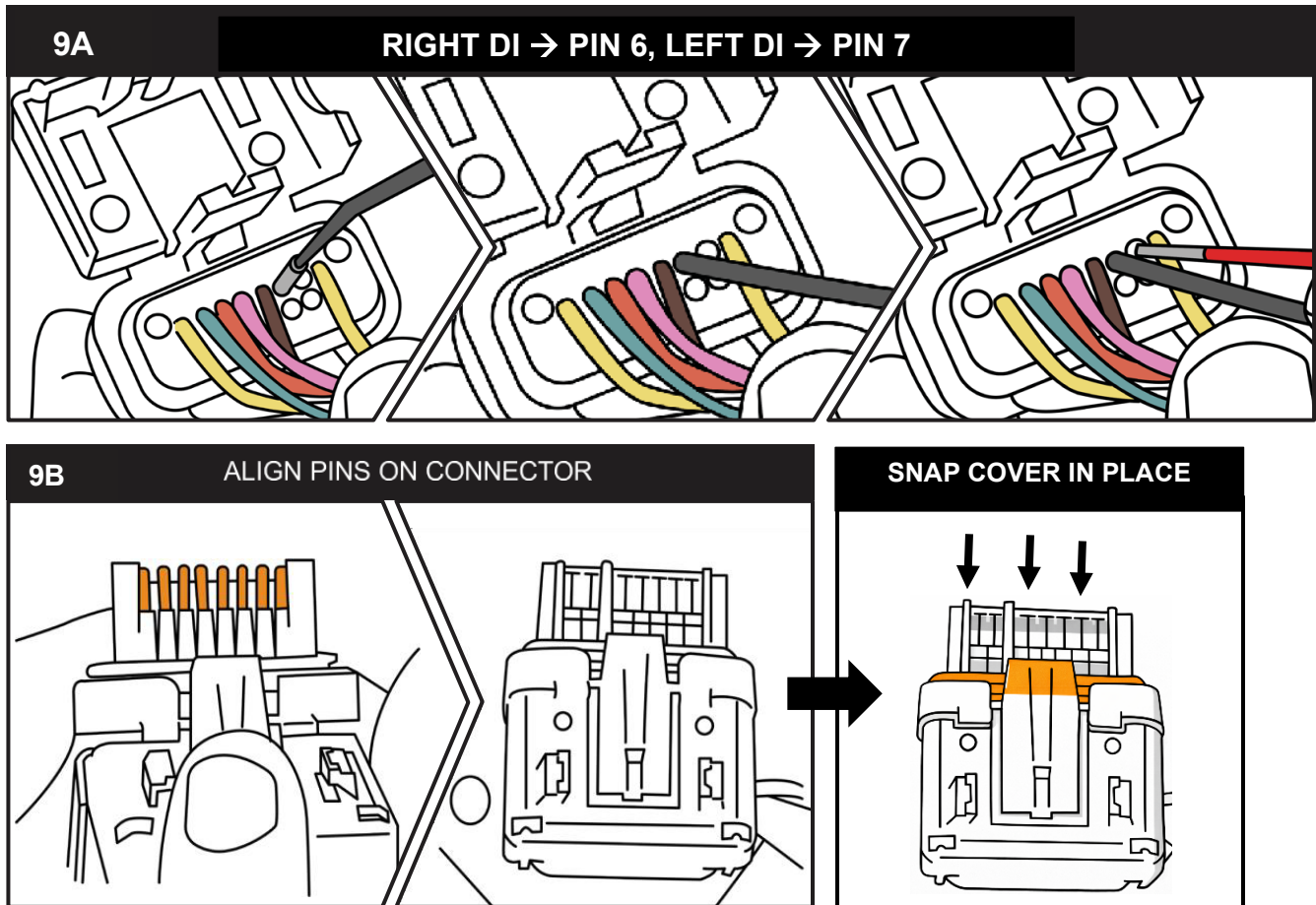


8

- From the rear side of the connector, use a **SMALL FLATHEAD SCREWDRIVER** or **PRY TOOL** to gently open the connector housing.
- This will allow you to access the wires entering the gauge cluster connector.
- Locate Pins 6 and 7 inside the connector—these positions are clearly labeled on the connector body for easy identification.
- Using a **PICK TOOL**, carefully remove the plastic pin inserts from both Pin 6 and Pin 7 to prepare these locations for the new terminals, see FIGS. 8A & 8B for proper pin identification and orientation.



- Take the provided RIGHT DI wire and insert its terminal from the wire side of the connector into Terminal 6.
 - Push the pin inward until it is fully seated and sits evenly aligned with the surrounding terminals. SEE FIG. 9A
- Next, take the provided LEFT DI wire and insert its terminal from the wire side of the connector into Terminal 7.
 - Again, push the pin in until it is fully locked in place and aligned evenly with the other pins. SEE FIG. 9A
- After both DI wires are inserted and properly positioned, reinstall the connector cover by pressing it down until it snaps securely into place. SEE FIG. 9B



- Install the APEX lights onto the inserts provided in your kit using a **3 MM ALLEN** wrench (two screws per insert). [SEE FIGS. 10A & 10B]
- Move to the front of the machine and locate the bumper cavities where the bumper inserts will be installed.
- From the back side of the bumper, identify the mounting points for each insert.
- Install the supplied screw clips onto the bumper at each mounting location. [SEE FIG. 10C]
- These clips will receive the screws that secure the inserts.
- With the screw clips installed, position each bumper insert into its corresponding bumper cavity from behind the bumper, ensuring the insert is properly aligned and fully seated.
- Insert the provided mounting screws from the backside of the bumper, passing each screw through the bumper insert and threading it into the previously installed screw clips.
- Using a **10 MM WRENCH**, tighten the hardware securely so each bumper insert is firmly held in place.
- Connect the APEX bumper-insert lights to the Turn Signal Controller, using the dash indicator harness plugged into the LEFT TURN and RIGHT TURN connectors.
- **Important:** The APEX lights plug in-line with the dash indicator harness that connects to the controller.
- For full wiring details, refer to the **Turn Signal Wiring Diagram located at page 28.**

IDENTIFY BUMPER INSERTS WITH APEX LIGHTS

10A

PASSENGER-SIDE

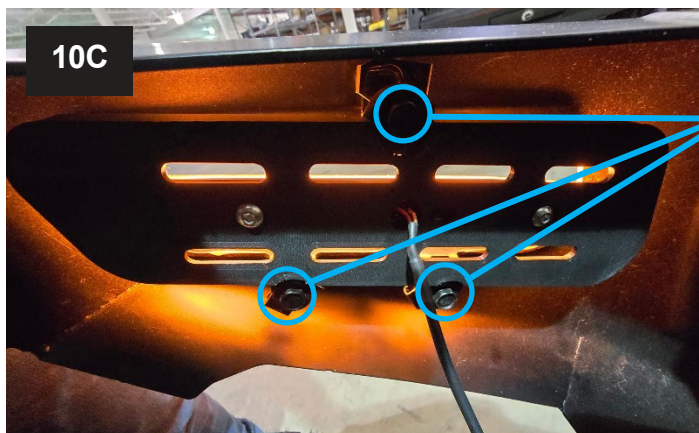
DRIVER-SIDE



10B



10C



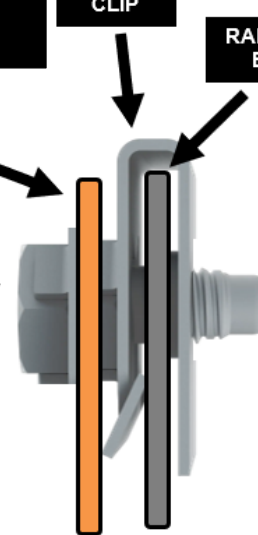
EXPLODED VIEW OF
BUMPER INSERT
MOUNTING

SCREW
CLIP

RANGER OEM
BUMPER

BUMPER
INSERT

SCREW



10D



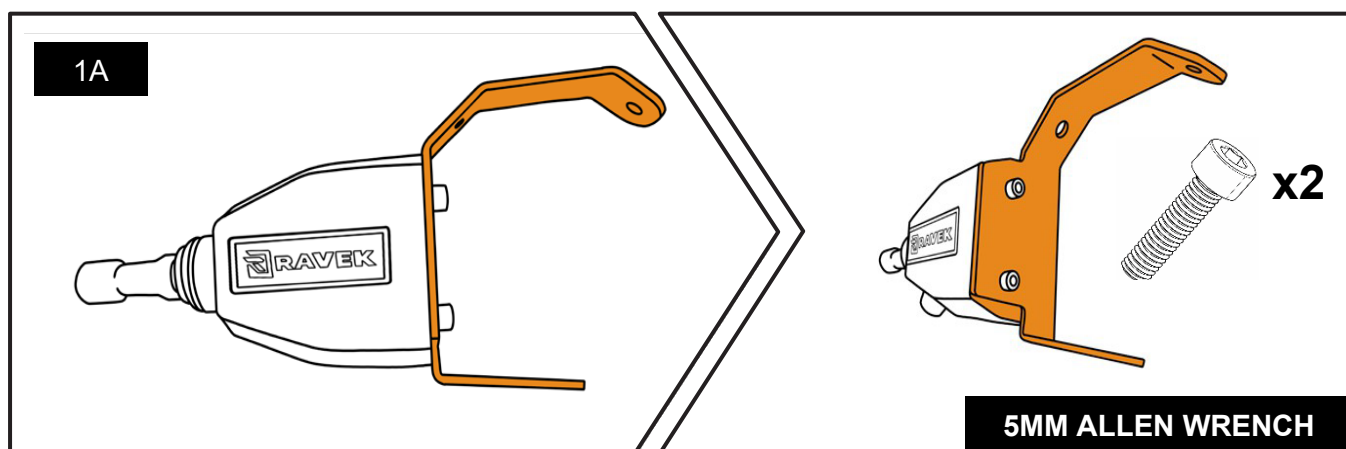
BACKSIDE OF
INSTALLED
INSERT



FRONTSIDE OF
INSTALLED
INSERT

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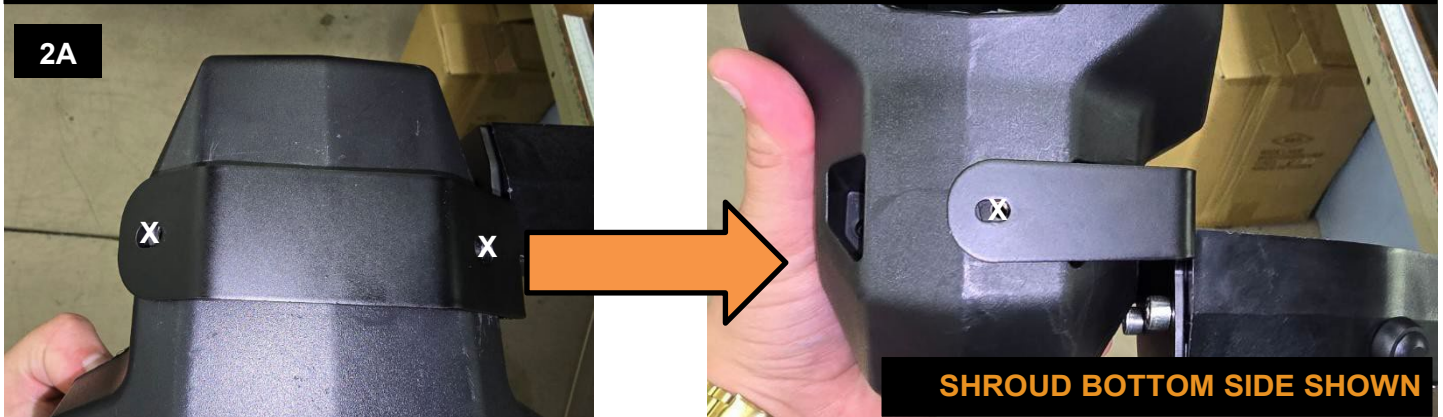
- Gather the turn signal lever, mounting bracket, and the two M6 × 12 mm Allen screws.
- Assemble these components using a **5 MM ALLEN WRENCH**.
- This prepares the lever assembly, so it is ready to be securely mounted to the Ranger's steering column. [SEE FIGS. 1A & 1B]



2

- **NOTE:** *The following procedure is shown with the steering column shroud removed for visual clarity. Perform the turn signal lever installation with the steering column shroud installed on the vehicle, as normal.*
- Take the turn signal lever with the mounting bracket attached and position it on the steering column shroud in the location where it will be installed.
- Align the lever and bracket to the desired mounting position on the shroud.
- Using a marking tool of your choice (Sharpie, paint marker, or pencil), mark the three mounting hole locations on the steering column shroud through the bracket. [SEE FIG. 2A]

MARK THE CENTER OF EACH MOUNTING HOLE DIRECTLY ONTO THE SHROUD PANEL



REAL-WORLD IMAGES SHOWN FOR CLARITY

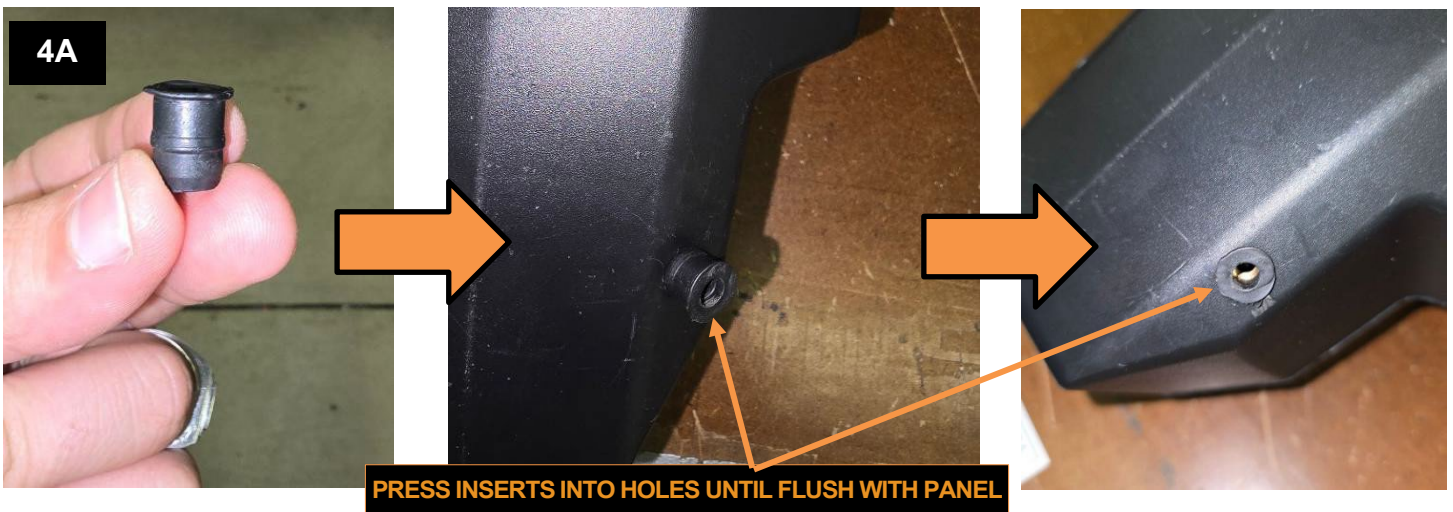
3

- Drill the previously marked hole locations using a DRILL with a 3/8 in. drill bit.
- Apply light, controlled pressure while drilling.
 - Do not force the drill—excessive pressure may cause the bit to break through suddenly and potentially damage steering components behind the shroud. [SEE FIG. 3A]
- These drilled holes will be used only for installing the threaded inserts in the next step.



4

- At each drilled hole location, install one M5 threaded insert from the supplied kit.
- Press each insert into the hole until it is fully seated and sits flush with the steering column shroud. [SEE FIG. 4A]



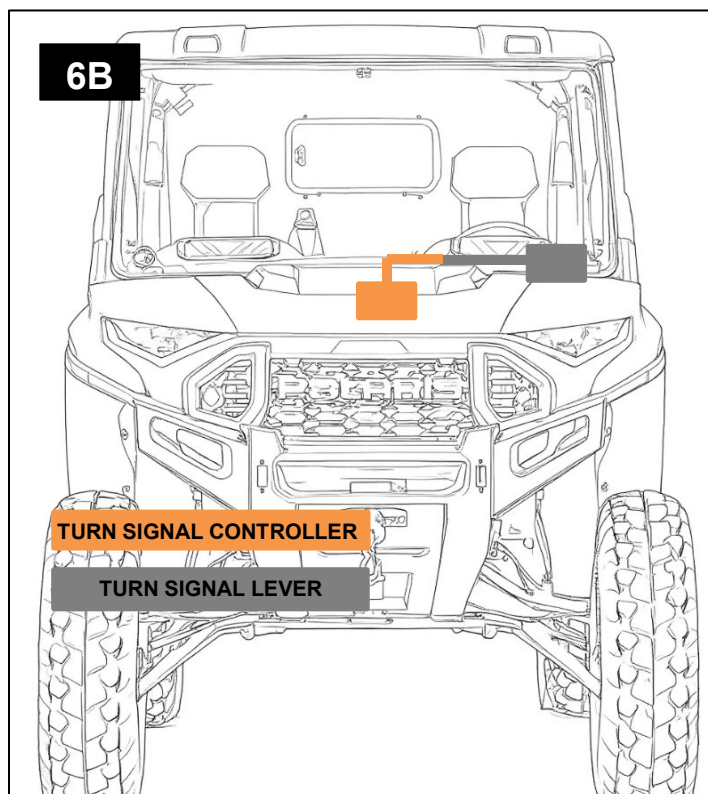
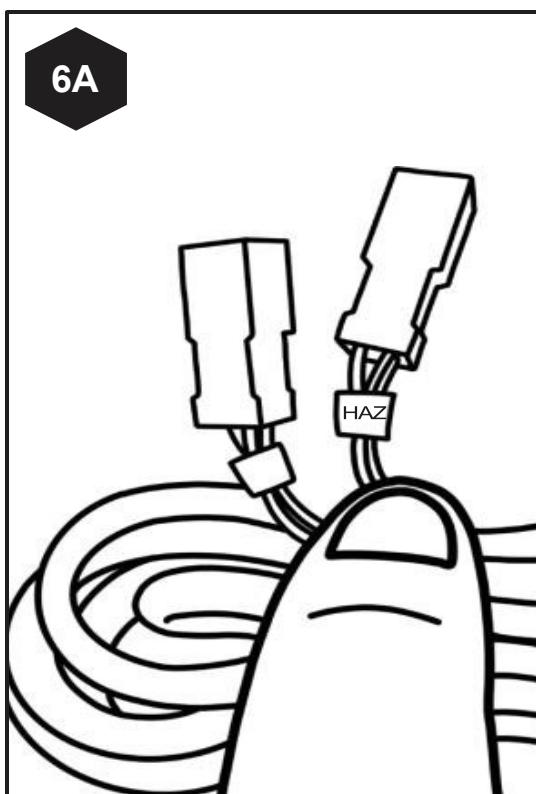
REAL-WORLD IMAGES SHOWN FOR CLARITY

- Secure the turn signal lever and mounting bracket using the supplied M5 × 0.8 screws and a 4 mm Allen wrench.
 - The threaded inserts installed in the previous step serve as the mounting points for the lever assembly.
- Tighten the hardware evenly until the lever is firmly secured to the steering column shroud. **Do not overtighten.** [SEE FIG. 5A]



REAL-WORLD IMAGES SHOWN FOR CLARITY

- Route the wiring from the turn signal lever behind the steering column shroud, through the firewall grommet, and toward the turn signal controller. Be sure to keep the wiring clear of any moving parts to prevent tangling or damage.
 - **NOTE:** A wire-fish tool may be helpful for guiding the wiring through tight areas and through the firewall grommet.
- Match the labeled connector from the lever to the corresponding connector on the controller. [SEE FIGS. 6A & 6B]



1

- Dump the bed of your Ranger XD 1500 to access the OEM multipin harness located on the right-side frame.
- Disconnect the OEM multipin harness. [SEE FIG. 1A]
- Plug the supplied rear harness in-line with the OEM multipin harness. [SEE DIAGRAM A]
- Route the section of the rear harness that goes to the right taillight through the right-side frame.
- Before making the taillight connection, open the tailgate and locate the four bolts on the inner side of the right taillight. Remove all four bolts using a **T-30 TORX DRIVER**. [SEE FIG. 1B]
- After removing the bolts, gently flex the upper edge of the bedside cover to release the taillight, then unplug the taillight connector. [SEE FIG. 1C]
- On the underside of the bedside cover, use a **T-30 TORX DRIVER** to remove the bolt that secures the lower panel. [SEE FIG. 1D]
- Once that lower panel bolt is removed, flex the panel and fish the taillight connector from the supplied rear harness up into the taillight cavity. Make the connection by plugging the rear harness in-line with the taillight assembly and the taillight's OEM harness.
- Grab the wireless receiver, and connect it to the following labeled connectors on the rear harness:
 - 4-pin connector labeled "REAR HARN."
 - 2-pin connector labeled "LIC. PLATE"

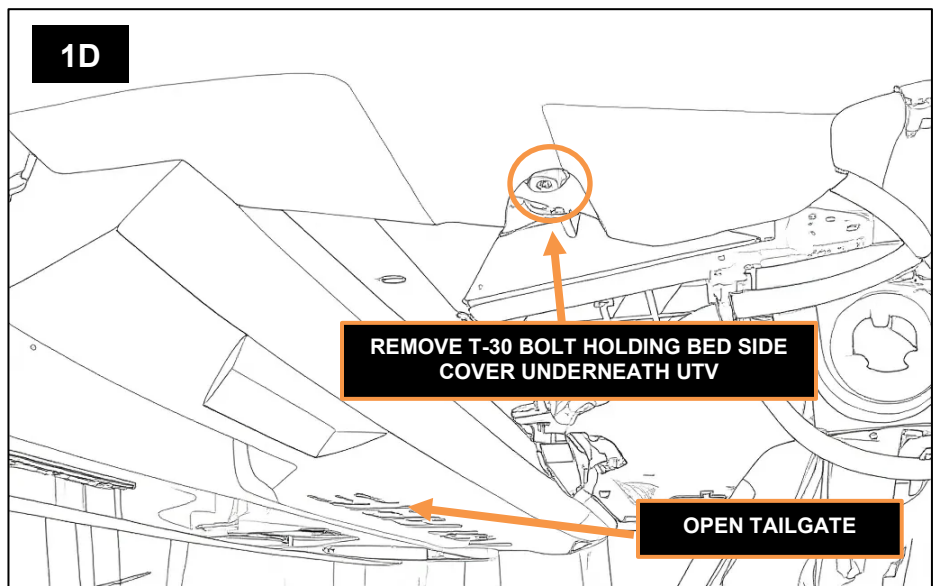
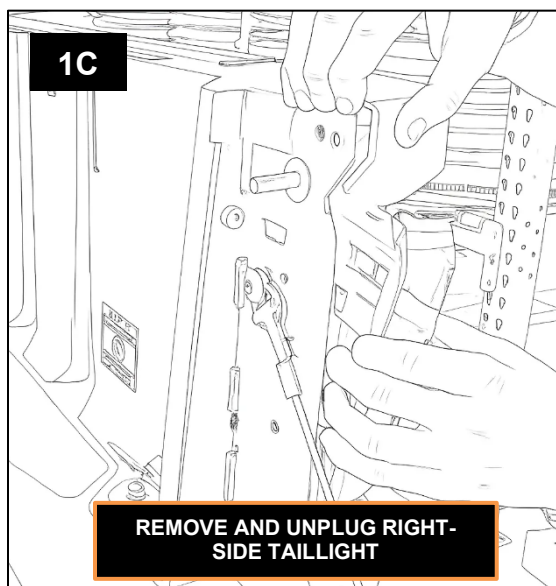
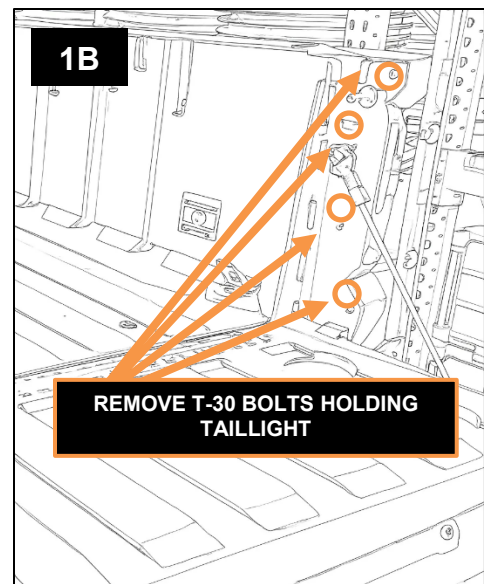
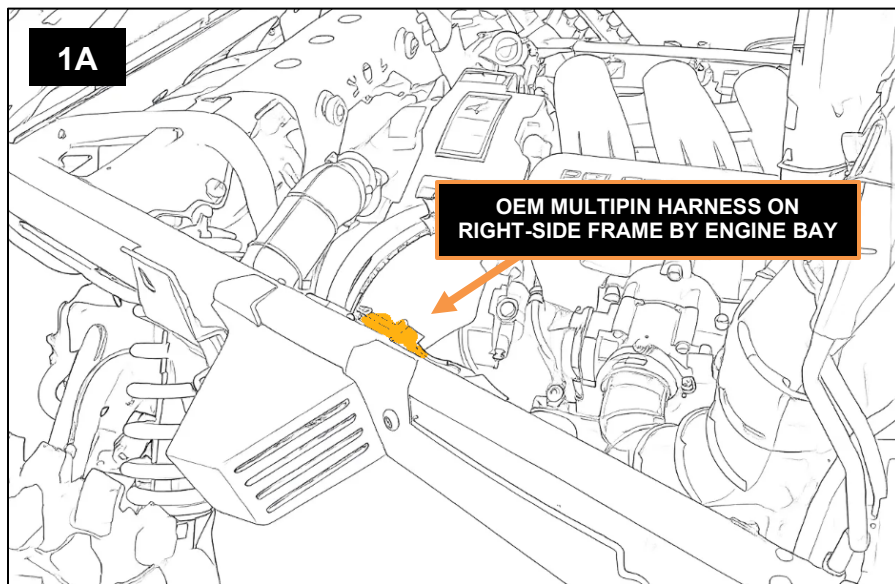
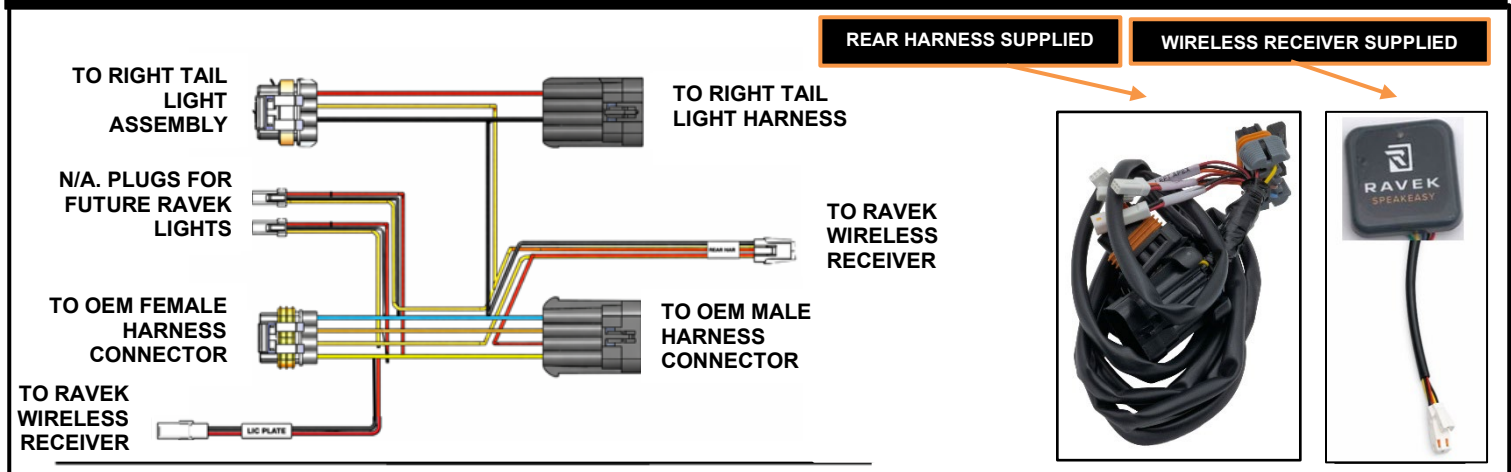


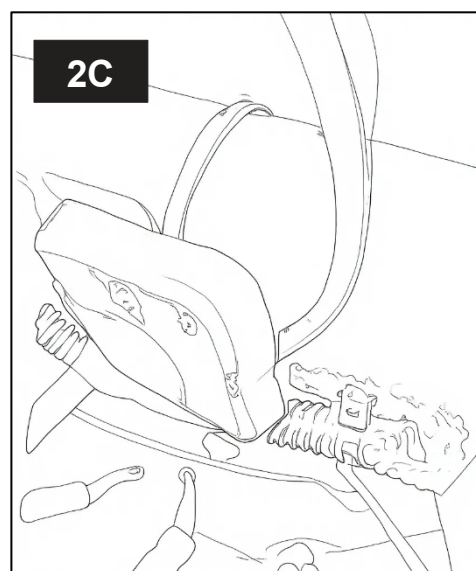
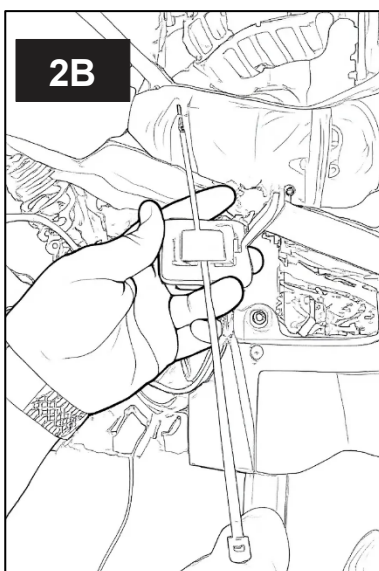
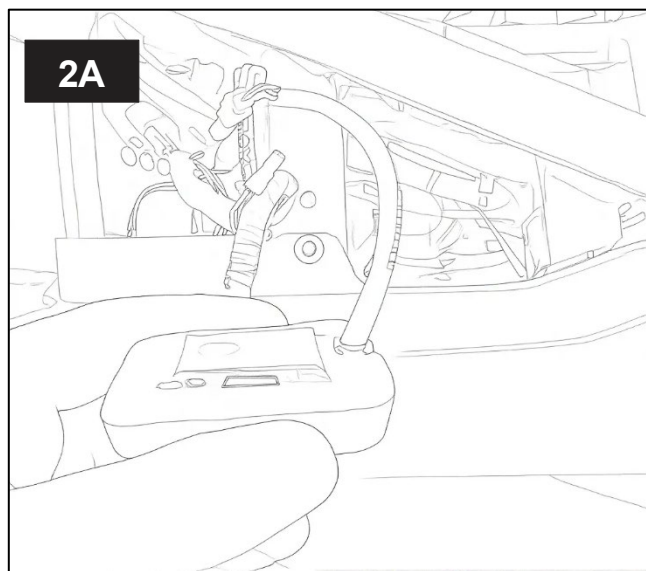
DIAGRAM A



Notice: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2

- With the wireless receiver plugged into the rear harness, route a supplied zip tie through the backside slot of the receiver. [SEE FIGS. 2A & 2B]
- Position the receiver against the machine's frame.
- Tighten the zip tie securely to hold the receiver firmly in place. [SEE FIG. 2C]
- Verify the receiver is not loose and does not interfere with any moving components.



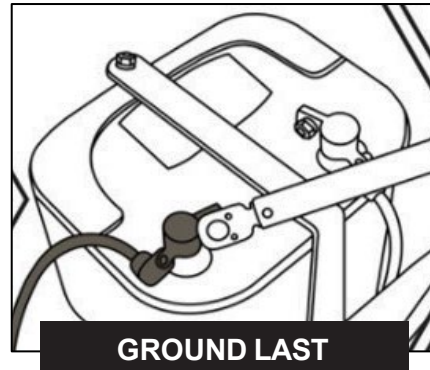
1

- Position the license plate bracket on the rear frame area under the tailgate, on the right-hand side as shown.
- Hold the bracket in place and, using the supplied self-tapping screws along with an **IMPACT DRIVER** (recommended) and **10 MM SOCKET**, secure the bracket firmly to the frame.
- **NOTE:** License plate light is sold separately.



1

Go back to the battery and reconnect the terminals to supply power to the kit for the next few steps. [FIG. 1A]



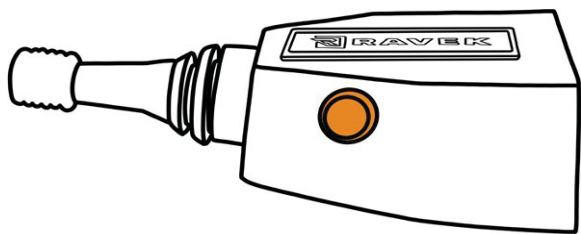
1

Turn your key to the ON position and test your lights.

1. **Hazard Lights:** Press the button located on the underside of the lever (see FIG. 1A) to activate your hazards.
2. **Turn Signals:** Push the lever down for a left turn or up for a right turn, just like in a car. The lever is momentary, so it automatically returns to the neutral position—no manual reset needed [SEE FIG. 1B]
 - a. Turn Signal Duration:
 - i. 1 toggle: 10-second signal
 - ii. 2 toggles: 20-second signal
 - iii. 3 toggles: 30-second signal

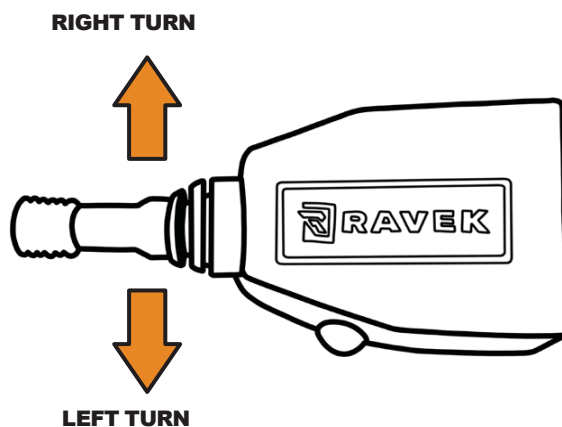
- **NOTE:** You can manually cancel the turn signal at any time by moving the lever in the opposite direction.
3. Running brake lights
4. Running white lights
5. Brake light w/ pulse effect
6. Left turn signal dash indicator
7. Right turn signal dash indicator

1A



BOTTOM VIEW

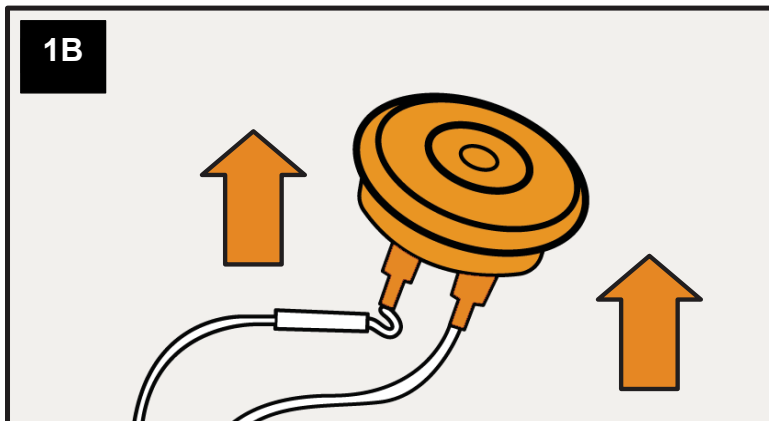
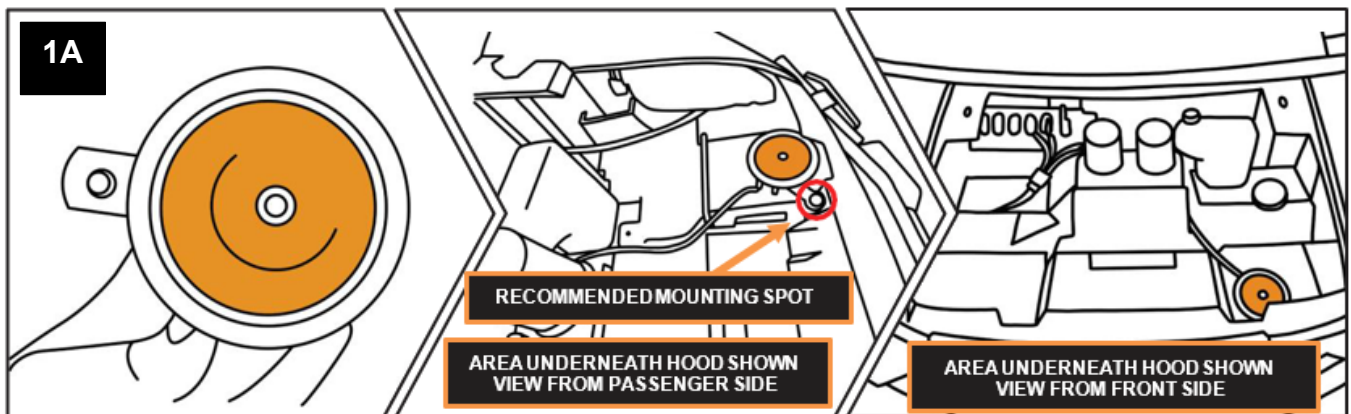
1B



FRONT VIEW

1

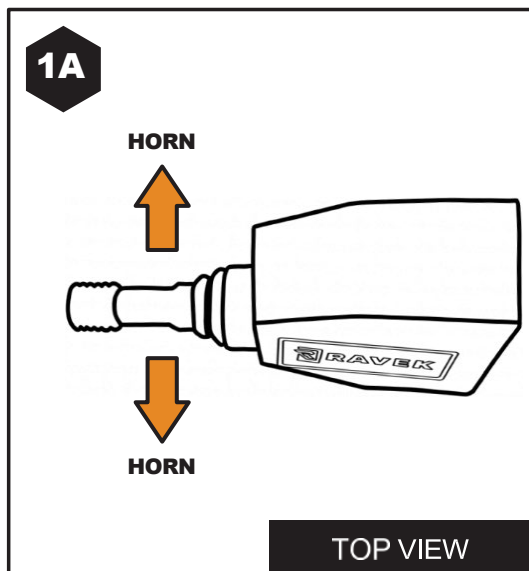
- Under the hood, locate the recommended mounting bolt shown in FIG. 1A.
- Position the horn in place and mount it using the OEM hardware. If installing in the recommended location, use a **T-30 TORX** to secure the bolt.
- Tighten the hardware securely to prevent movement.
- Ensure the horn is not touching any surrounding surfaces or panels, as contact can reduce or muffle the sound output.
- Connect both spade terminals from the extension harness to the horn's connectors — either terminal can be used (if not already plugged in). [SEE FIG. 1B]



1

Close the hood, turn the key to the ON position, and test the horn.

1. **Horn:** To activate the horn, simply push or pull the lever. [SEE FIG. 1A]

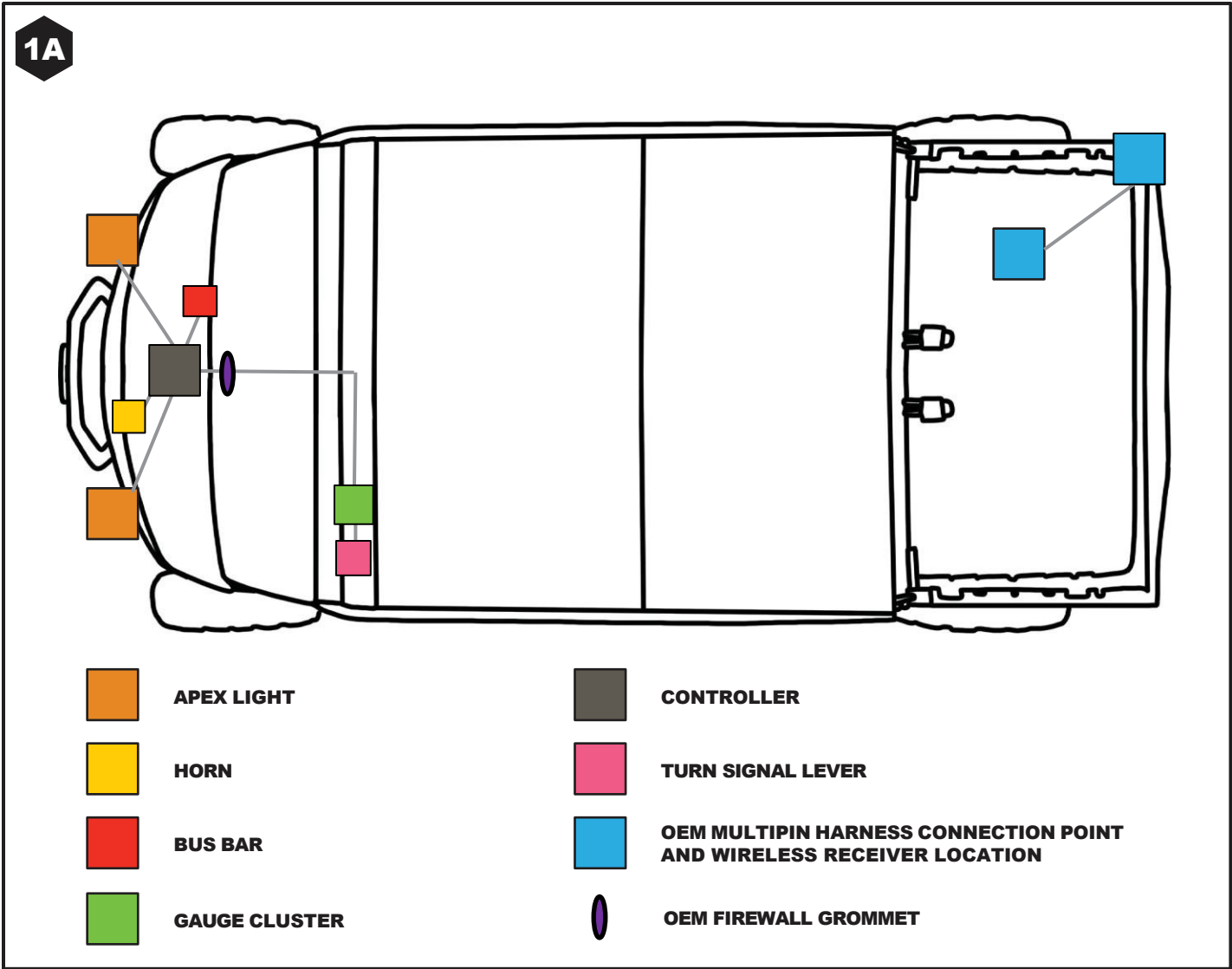


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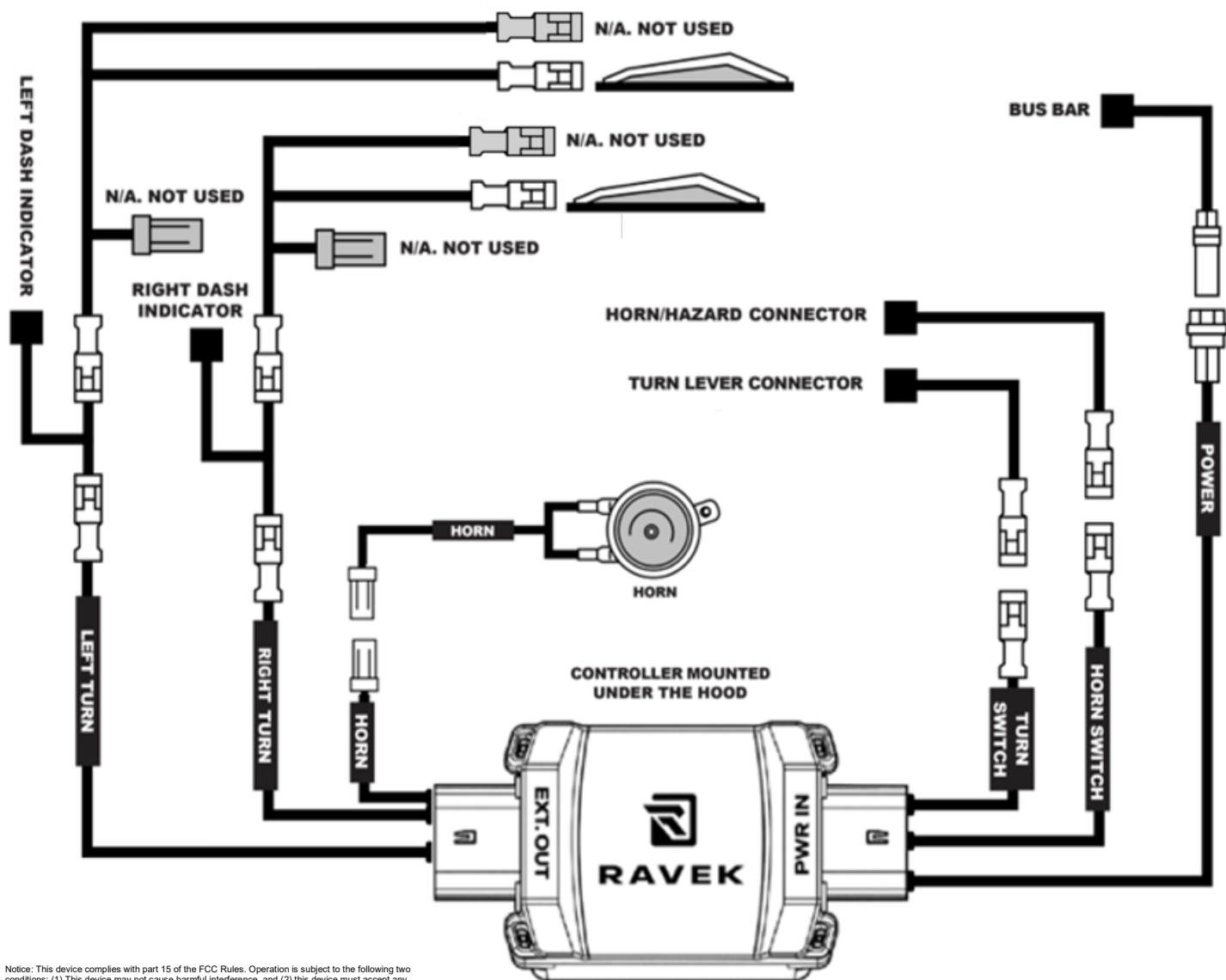
Once you have tested the kit and confirmed proper operation, reassemble your machine by reinstalling all panels in their correct positions.

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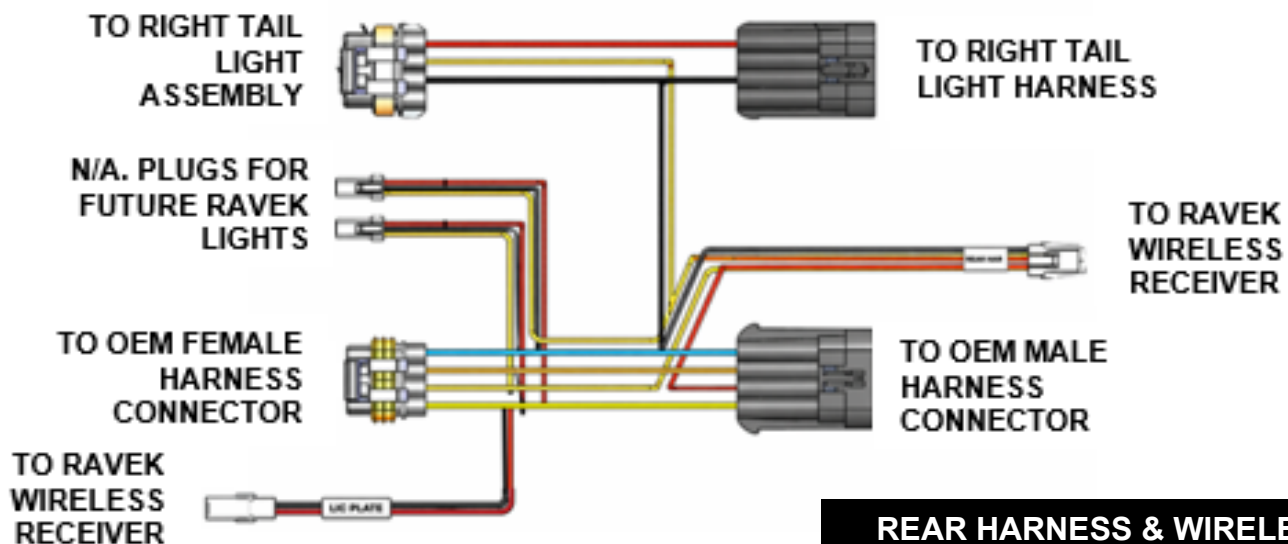
See FIG. 1A for the Kit Overview Diagram.



RAVEK CONTROLLER WIRING DIAGRAM



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REAR HARNESS & WIRELESS RECIEVER DIAGRAM



RAVEK
BUILT FOR MORE

RAVEK WISCONSIN TECH SUPPORT LINE: 855-617-2787