



RAVEK

**CFMOTO U10 2025+
GEN3 SPEAKEASY
TURN SIGNAL KIT**

WITH WHITE RUNNING LIGHTS



INSTALLATION INSTRUCTIONS

Part #: 68-1020SR
Fitment: CF MOTO U10 2025+

PARTS INCLUDED:

- **CONTROLLER (1X)**
- **HORN (1X)**
- **APEX LIGHT (2X)**
- **POWER HARNESS (1X)**
- **HORN/HAZ SWITCH (1X)**
- **INPUT HARNESS (1X)**
- **REAR HARNESS (2X)**
- **LICENSE PLATE BRACKET (1X)**
- **OUTPUT HARNESS (1X)**
- **DASH INDICATOR HARNESS (2X)**
- **TURN SWITCH (2X)**
- **WIPER RELOCATION SWITCH (1X)**
- **ADHESIVE PROMOTER WIPE (3X)**
- **RUBBING ALCOHOL WIPE (3X)**

BEFORE YOU BEGIN — INSPECT YOUR KIT

Verify all components listed in the What's in the Kit section and Parts Addendum are present and undamaged before starting. If anything is missing or damaged, stop and contact RAVEK at 1-855-617-2787 before proceeding. Proceeding with installation constitutes acknowledgment that all components were received and inspected. RAVEK cannot be held responsible for incomplete installations resulting from uninspected or unreported missing components.

⚠️ STREET LEGAL NOTICE

Installation of a RAVEK Turn Signal Kit does not automatically authorize your UTV / side-by-side for on-road use. Street-legal requirements for UTVs vary significantly by state, county, and municipality — and in some jurisdictions, no amount of added equipment qualifies a UTV for public road operation. It is the sole responsibility of the user to verify local requirements before operating on any public roadway.

TOOLS NEEDED:

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.



Side Cutter
Pliers



4mm Allen
Wrench



T-30
Torx



T-40
Torx



Ratchet



10mm Deep
Well Socket



13mm
Wrench

CALL OUR TECH LINE WITH ANY QUESTIONS: 855-617-2787

INSTALLATION VIDEO GUIDE

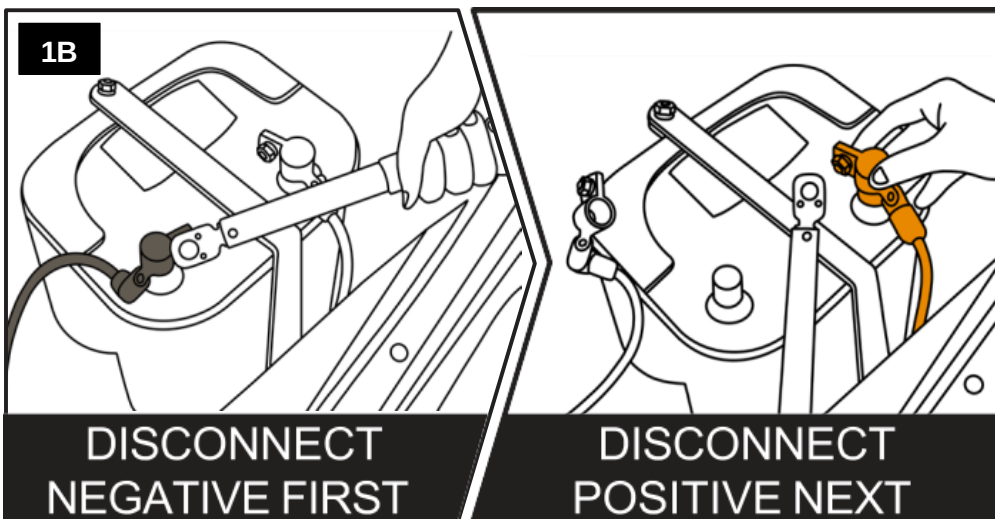
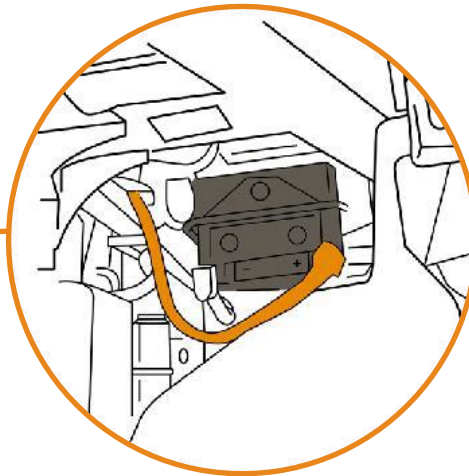
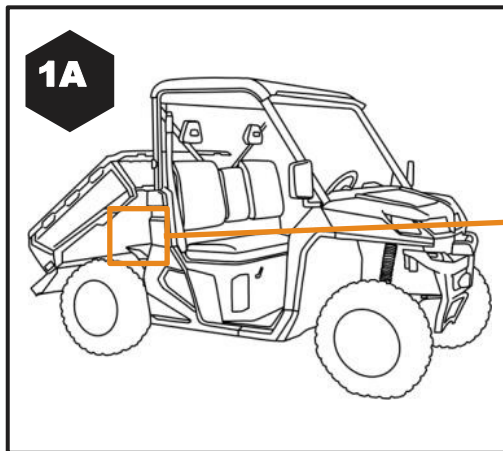
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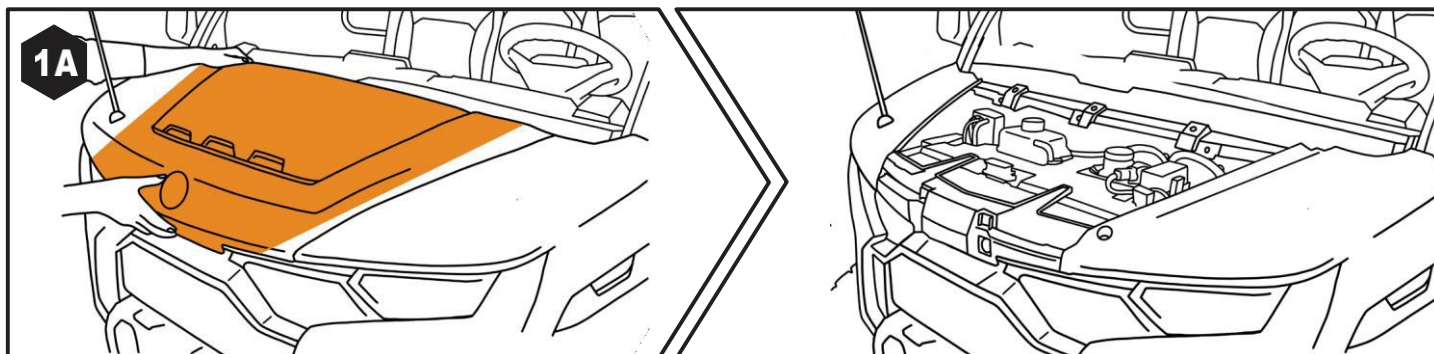
DISCONNECT YOUR BATTERY

1

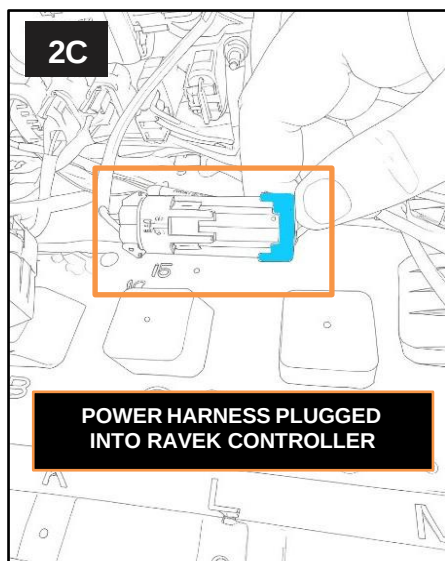
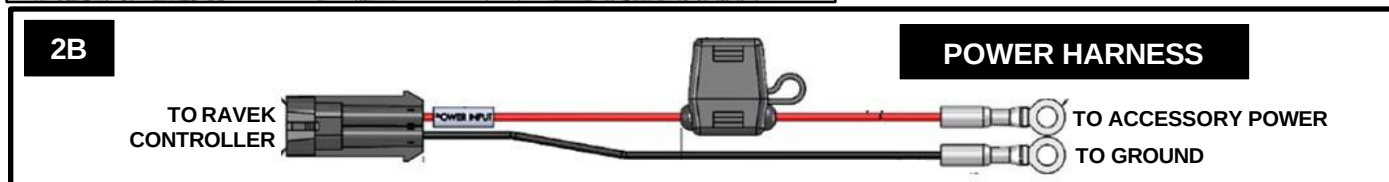
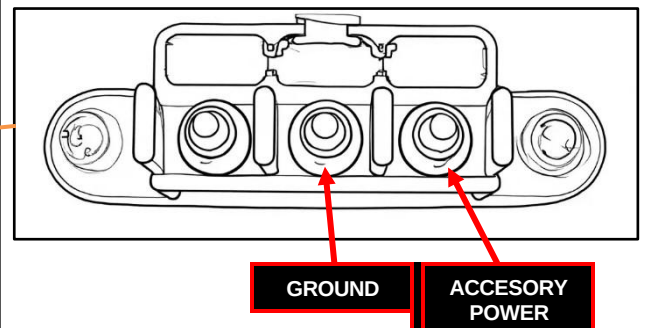
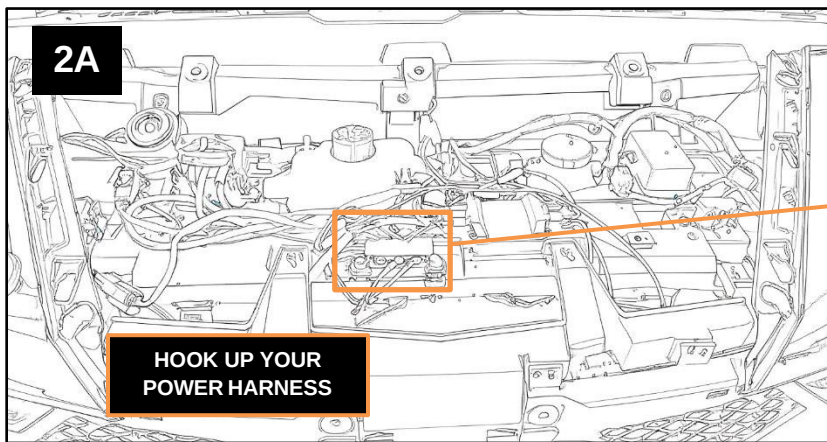
- Before you begin the installation, disconnect the battery to prevent any electrical damage.
- If equipped, dump the bed to gain easier access to the battery. [SEE FIG. 1A]
- Locate the battery on the passenger side at the front of the bed, along the frame rail.
- Using a **10 MM WRENCH**, disconnect the battery terminals [SEE FIG. 1B]:
 - Remove the negative (ground) terminal first.
 - Then remove the positive terminal.
- Ensure the disconnected terminals do not touch each other or any metal surfaces to avoid arcing.



- Remove the center hood panel by pulling the rear edge forward to release the three mounting barbs from the rubber grommets.
- Once the rear barbs are released, pull the front lower edge forward to disengage the remaining barbs.
- Carefully slide the panel forward and set it aside in a safe location. [SEE FIG. 1A]

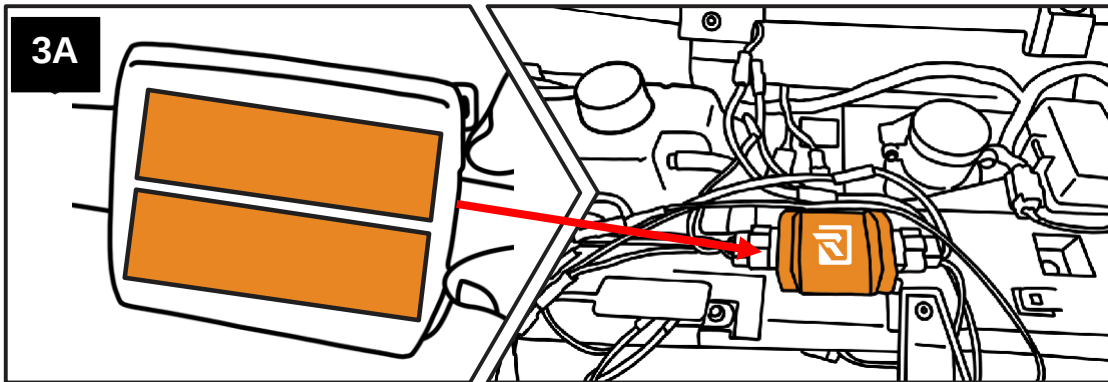


- Locate the bus bar under the hood of your U10. [SEE FIG. 2A]
- **NOTE:** From the factory, the bus bar is not powered, so remove the dummy plug and connect it to the main OEM harness. [SEE FIG. 2D]
- Take the supplied power harness and using a **10MM WRENCH** [SEE FIG. 2B]:
 - Hook up the positive ring terminal to the accessory power stud on the bus bar.
 - Hook up the ground ring terminal to the ground stud on the bus bar.
- Connect the connector side of the supplied power harness to the controller's POWER labeled connector. [SEE FIG. 2C]



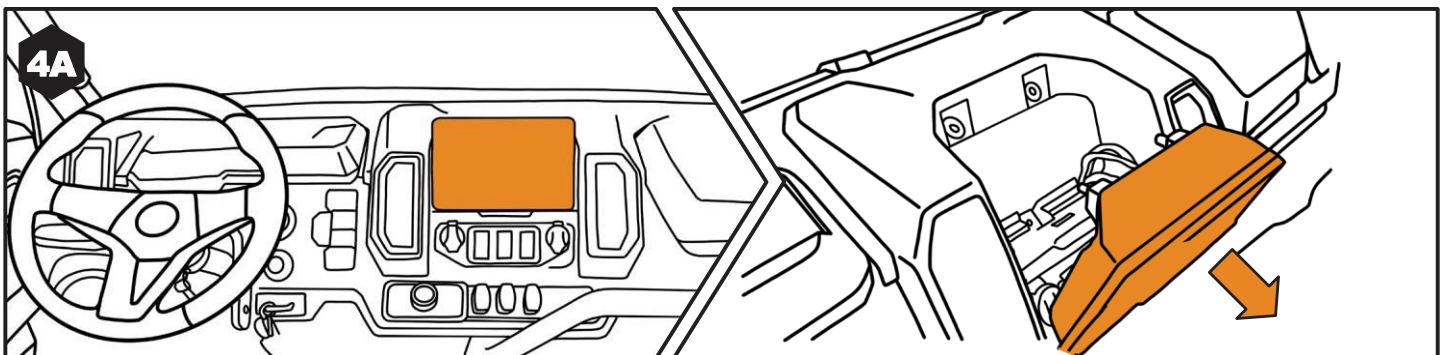
3

- In this step, you will mount the controller in an open area underneath the hood.
- Before installing, clean the mounting surface using the supplied alcohol wipes let dry, followed by the adhesive promoter and let dry.
- Allow the area to fully dry.
- Press the controller firmly onto the prepared surface to ensure proper adhesion [SEE FIG. 3A].
- Allow the adhesive to cure for 24 hours before riding the machine.

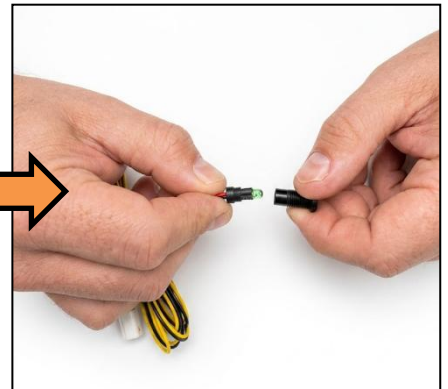
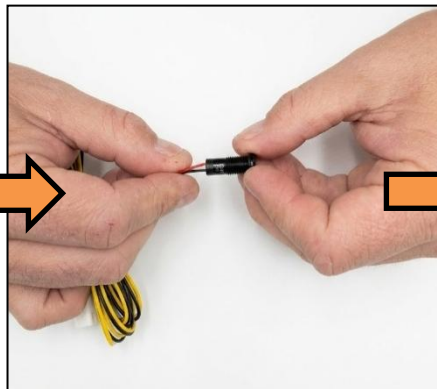
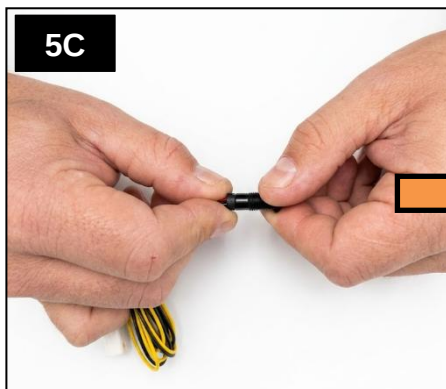
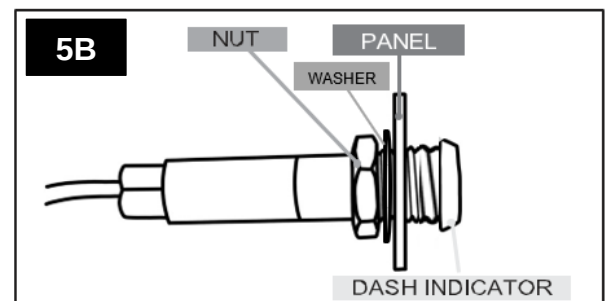
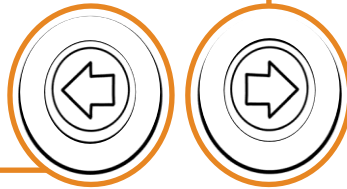
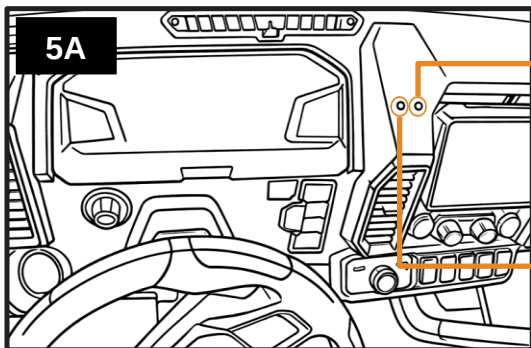


4

- Carefully pry up the top edge of the display to partially release the screen.
- This will provide easier access for routing the controller wires through the inner dash area.
- Allow the screen to hang forward to gain access to the backside of the dash. [SEE FIG. 4A]



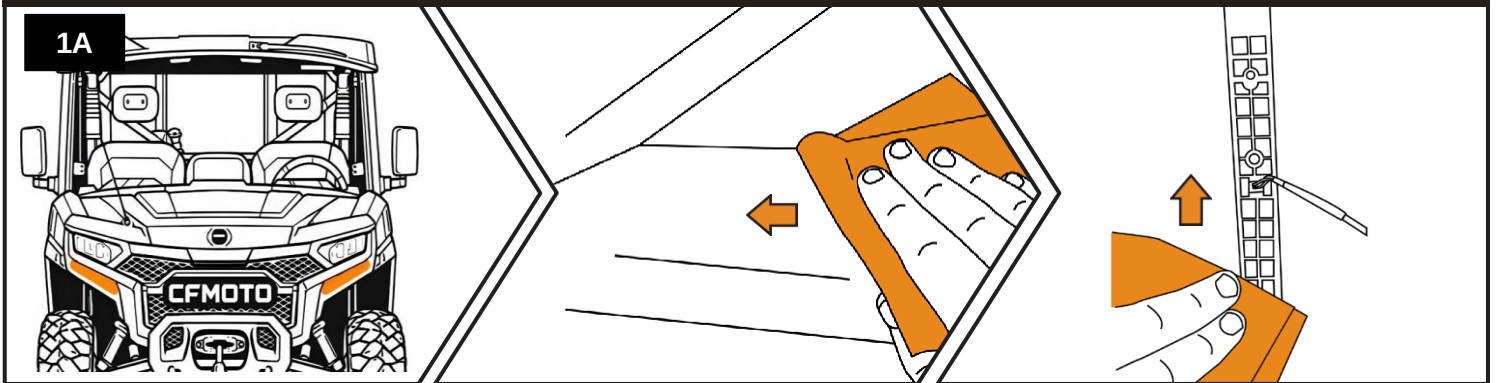
- Mount the dash indicators to the U10 dash. We recommend positioning them above the vent on the right side of the steering wheel, as shown in FIG. 6A (from the driver's seating position). Scan Tech Tip below for guidance.
- Mark the two mounting hole locations, then drill both holes using a 5/16 in. drill bit.
- Before installing, unthread and remove the upper half (front cap) of each dash indicator by hand.
- Insert only the top portion of the indicator (the front cap with the LED lens) through the drilled hole from the front side of the dash.
- Reach behind the dash to position the rear body of the indicator.
 - Align the rear body with the threaded portion of the front cap.
 - Thread the back portion onto the indicator from behind the dash until fully seated.
- Secure the indicator using the supplied washers and nuts, ensuring the assembly is tightened evenly and the indicator sits flush with the dash surface.
- Refer to the diagram below for the correct assembly order and orientation. [SEE FIGS. 5A – 5C]



OPTION A – FLATD SURFACE MOUNTING

Option A: Prepare the mounting surface underneath your headlights using the supplied alcohol wipe followed by the adhesive promoter wipe. Clean both the bumper mounting area and the base of the Apex lights. Allow all surfaces to dry completely before proceeding to the next step. [SEE FIG. 1A]

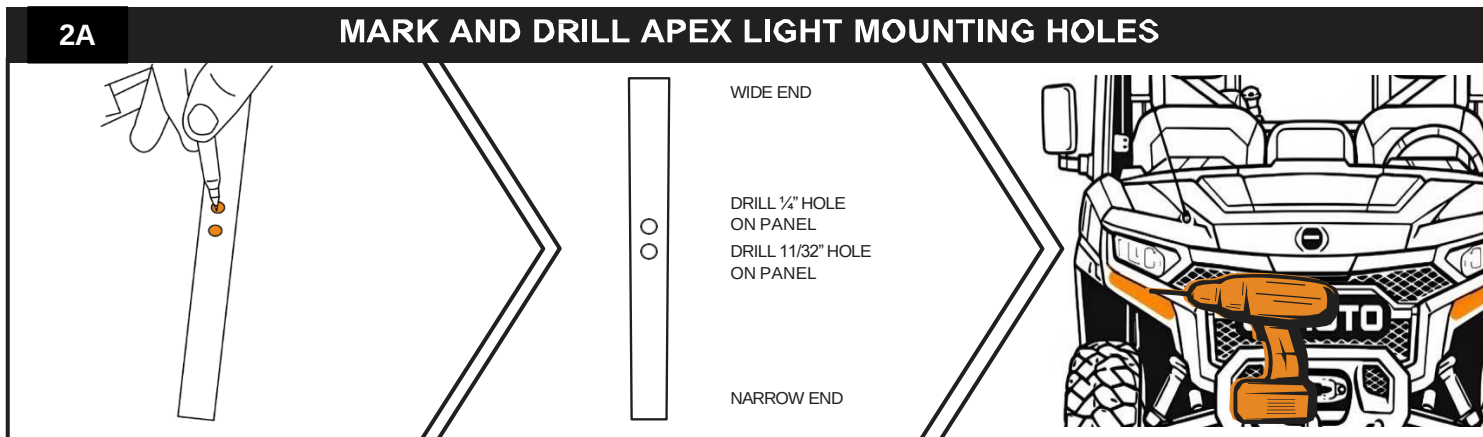
PREP BUMPER AND APEX LIGHT SURFACES



2

Option A: Use the supplied double-sided tape as a drill template for mounting the Apex lights. Align the tape on the flat mounting surface in the desired location, then use a pen, marker, or similar tool to mark the hole locations.

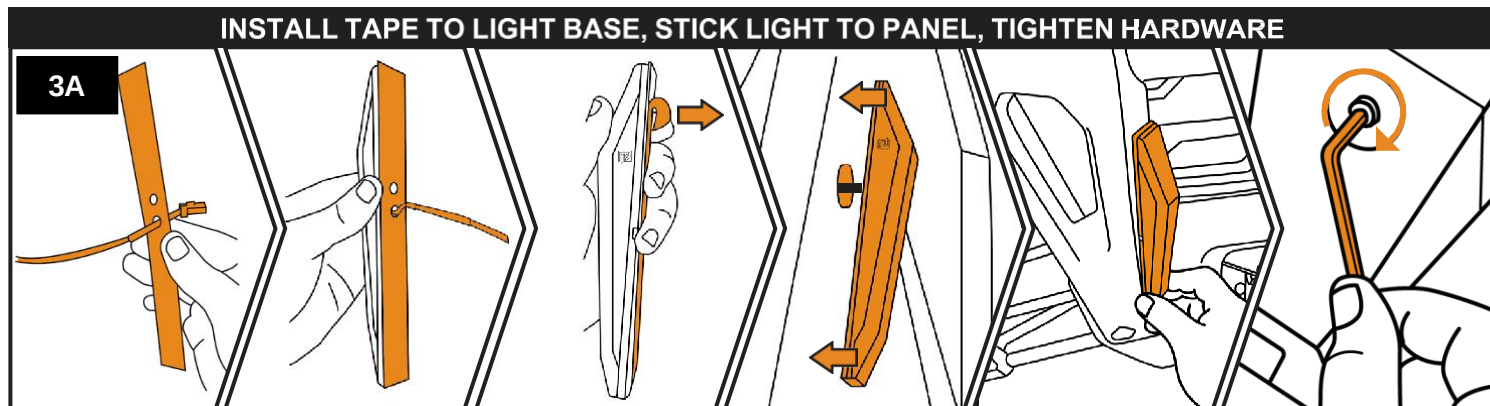
Drill the first hole at the wide end of the tape using a **1/4 IN. DRILL BIT**. Next, drill the second hole at the narrow end of the tape using an **11/32 IN. DRILL BIT**. For best results and cleaner holes, a brad-point drill bit is recommended for this step. [SEE FIG. 2A]



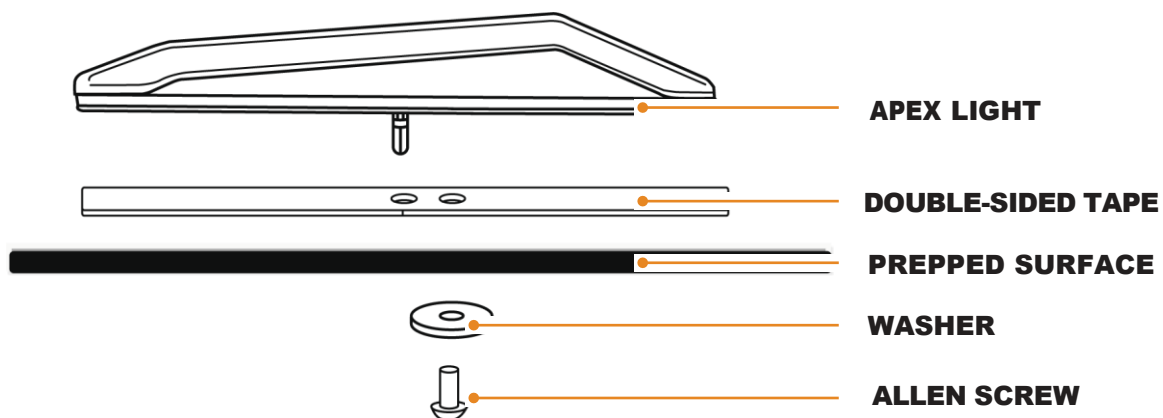
3

Option A: Apply the supplied double-sided tape to the base of the light, making sure the side without the 3M marking adheres to the light housing. Feed the light's connector through the opening at the narrow end of the tape and then route the connector through the previously drilled 11/32 in. hole.

Once the connector is fully routed, peel off the 3M-marked backing from the tape and position the light onto the mounting surface, pressing firmly to secure it in place. From the inner side of the mounting surface, install the supplied M6 flat washer and M6 × 1.0 Allen screw through the hole and using a **4MM ALLEN WRENCH** secure the light. Refer to the illustrations below and the Option A exploded view diagram for guidance. [SEE FIG. 3A]



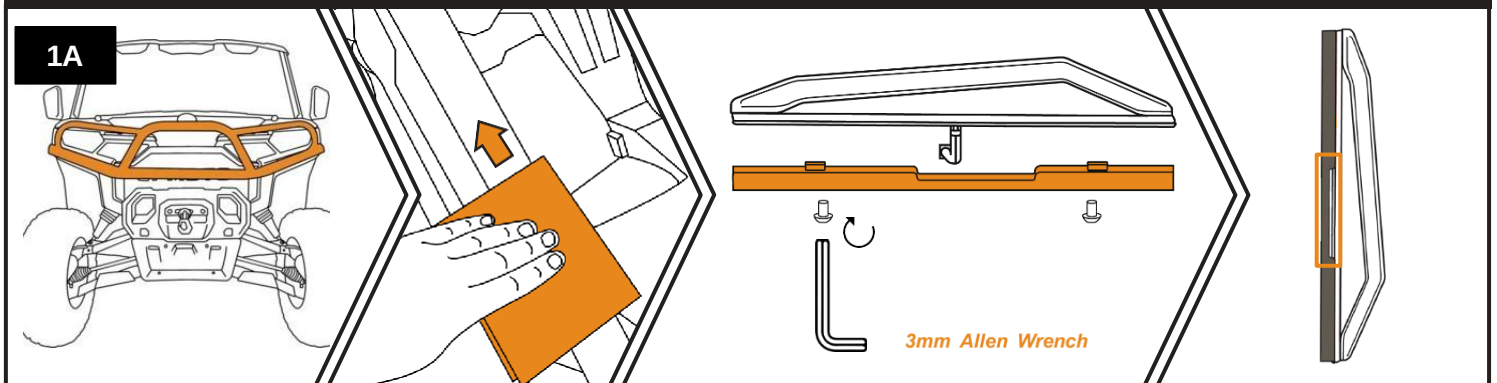
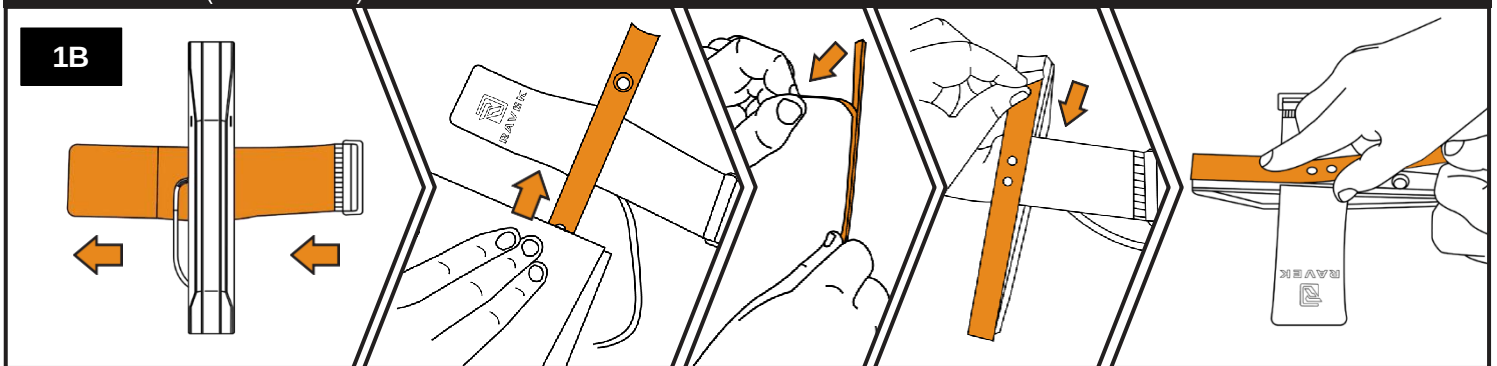
EXPLODED VIEW OF MOUNTING OPTION



B**OPTION B – ROLL BAR MOUNTING****1**

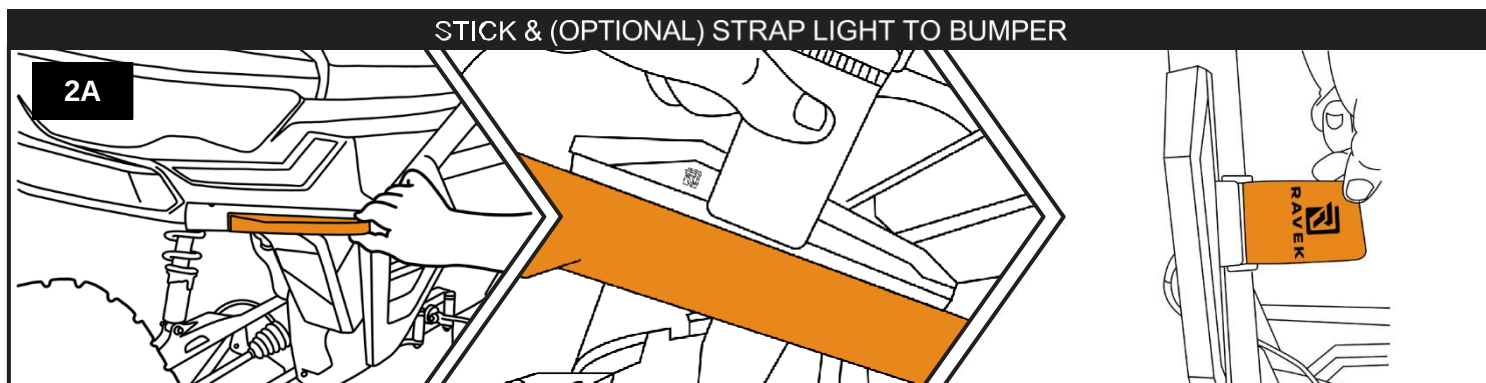
Option B: Prepare the roll bar mounting surface on the front bumper of your U10 if applicable, using the supplied alcohol wipe followed by the adhesive promoter wipe. Clean the mounting area thoroughly and allow all surfaces to dry completely before proceeding.

Next, install the roll bar adapter onto the base of the light using a **3 MM ALLEN WRENCH** and the two small screws provided. Apply the supplied double-sided tape to the base of the roll bar adapter, non-3M side on the adapter. **Optional:** Install the provided strap between the light and the adapter for added security. [SEE FIGS. 1A & 1B]

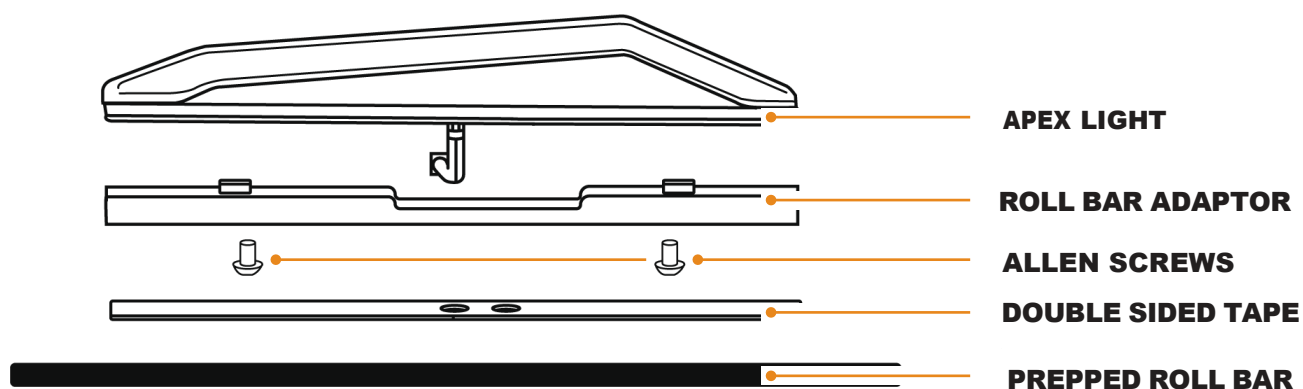
PREP BUMPER SURFACE AND INSTALL ROLL BAR ADAPTOR TO APEX LIGHT**(OPTIONAL) INSTALL STRAP TO LIGHT AND STICK TAPE TO ROLL BAR ADAPTOR**

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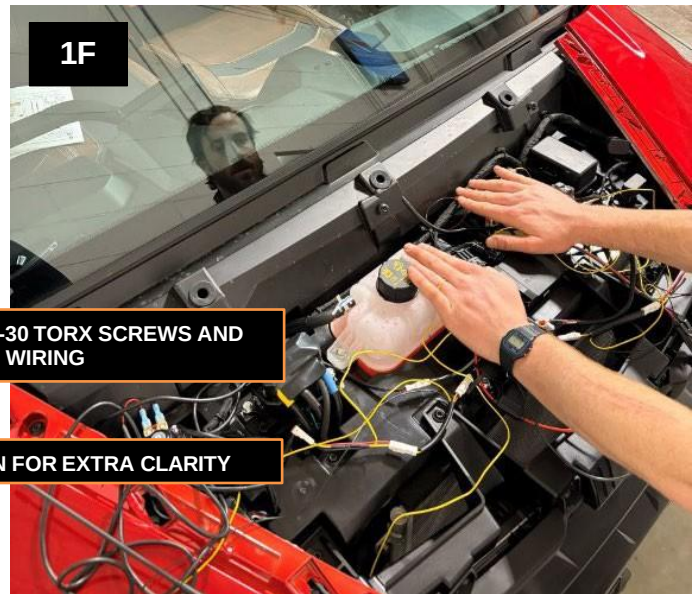
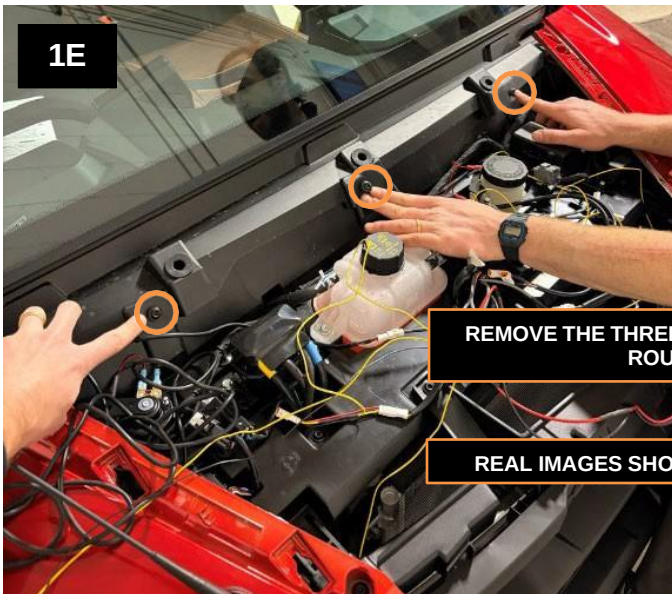
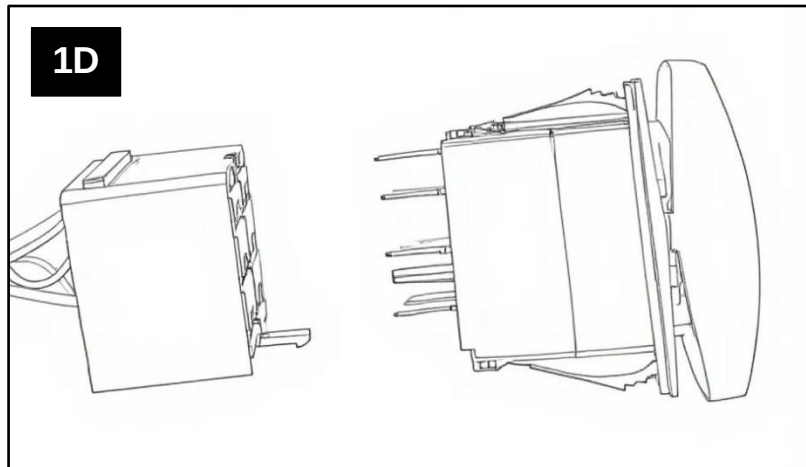
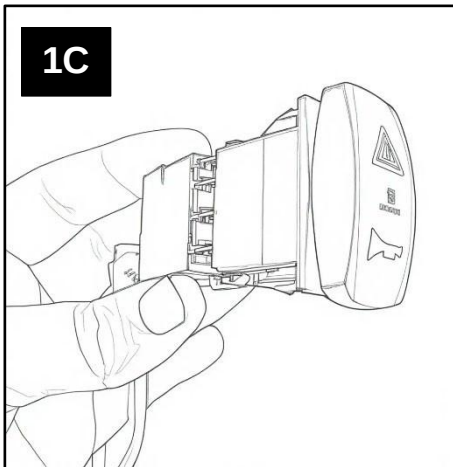
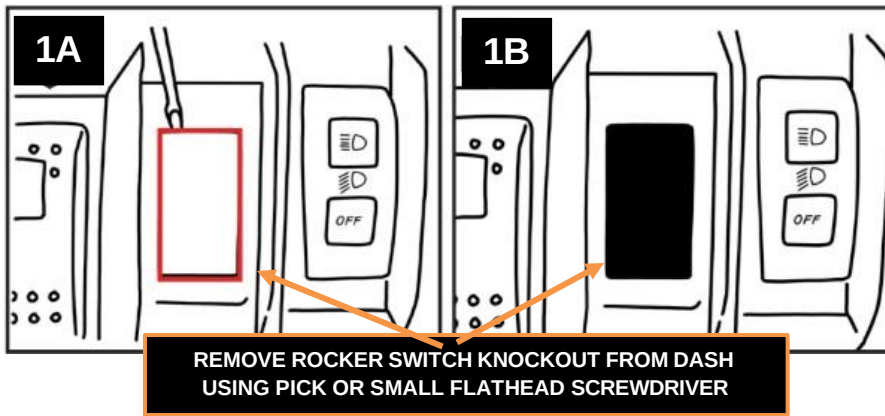
Option B: Peel off the 3M backing from the tape and adhere the light assembly to the bumper, applying firm pressure to ensure proper adhesion. **Optional:** Secure the light with the provided strap for additional security. [SEE FIG. 2A]



EXPLODED VIEW OF MOUNTING OPTION



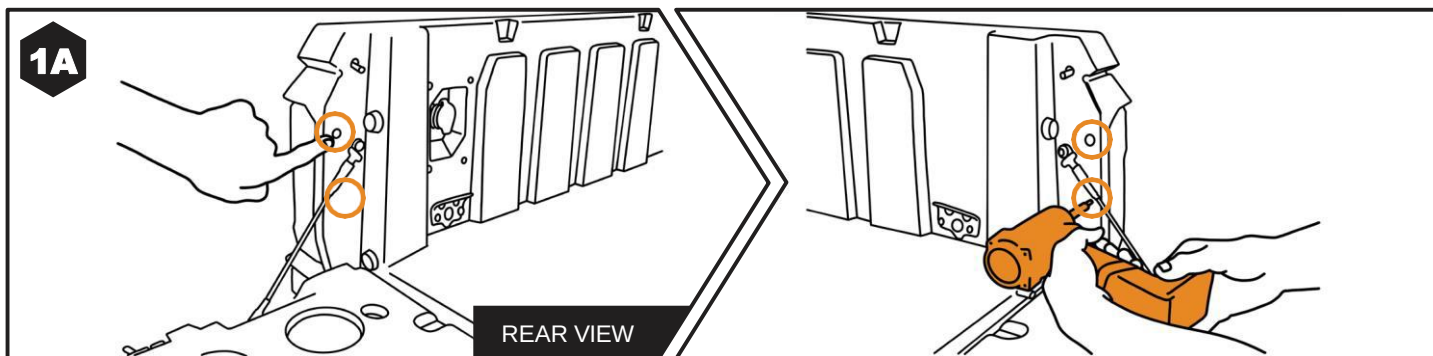
- Gather the Turn Signal and Horn/Hazards rocker switches included in your kit.
- Using a **SMALL FLATHEAD SCREWDRIVER** or **PICK TOOL**, remove two rocker switch knockouts from the dash where the Horn/Hazards and Turn Signal rocker switches will be installed. [SEE FIGS. 1A & 1B]
- With the knockouts removed, disconnect the rocker switches from their switch harnesses so the switches can be inserted into the dash.
- Insert each rocker switch into the open dash ports, ensuring each switch snaps securely into place. [SEE FIGS. 1C & 1D]
- From the backside of the dash, reconnect each rocker switch to its respective switch harness.
- Once reconnected, route the wiring from the rocker switches to the controller:
 - Connect the Horn/Hazard switch harness to the HORN-labeled port on the controller.
 - Connect the Turn Signal rocker harness to the TURN SWITCH-labeled port on the controller.
- Route the wiring from the turn signal lever behind the steering column shroud and toward the turn signal controller.
- Do NOT route the wiring through the firewall. Instead, route the wiring through the top of the dash area, which is the correct access path for the U10.
- Partially remove the exterior dash panel by taking out the three bolts using a **T30 TORX**. [SEE FIGS. 1E & 1F]
- With the dash panel removed, use the open access area to feed the yellow DI wires from the outside into the interior by hand.
- Ensure the wiring is kept clear of all moving parts to prevent tangling or damage.
- Match the labeled connector from the lever directly to the corresponding connector on the turn signal controller.



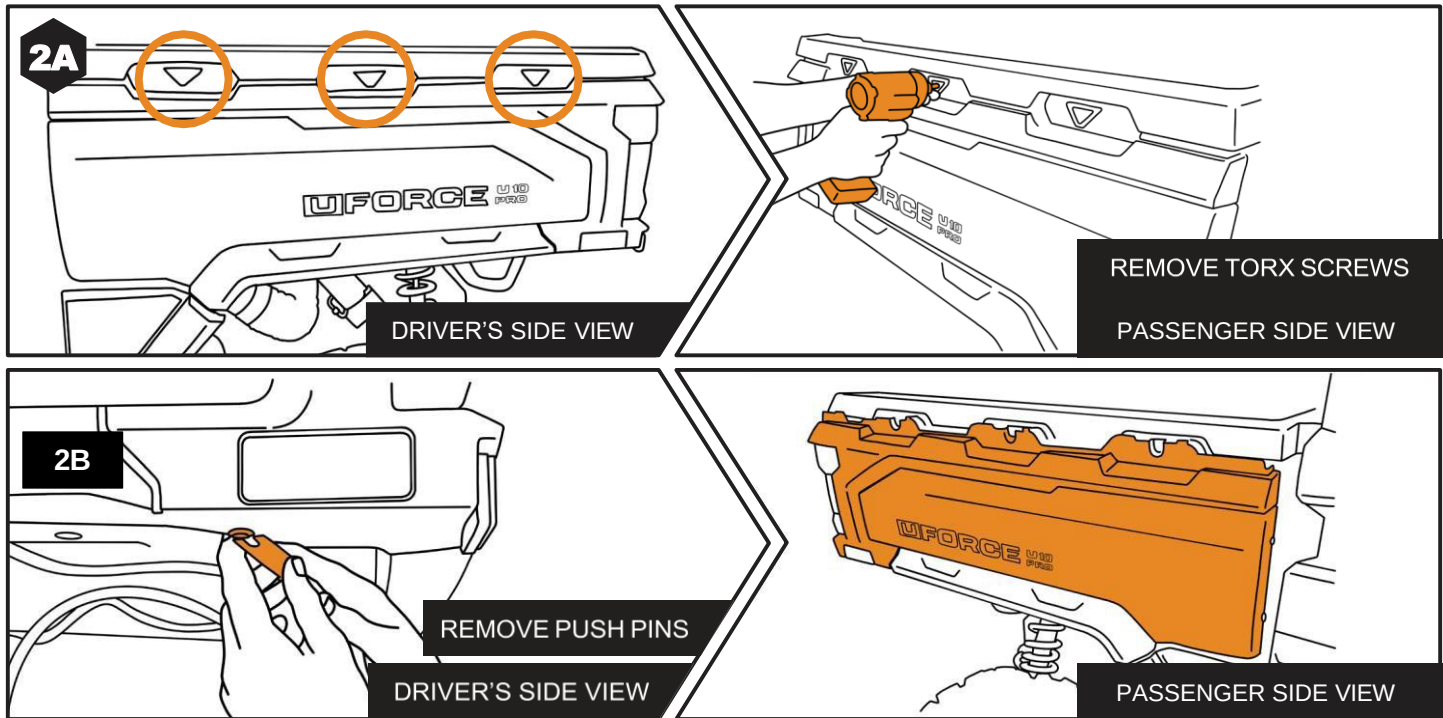
REMOVE THE THREE T-30 TORX SCREWS AND ROUTE WIRING

REAL IMAGES SHOWN FOR EXTRA CLARITY

- Open the tailgate to access the two bolts securing each taillight assembly.
- Using a **T-30 TORX DRIVER**, remove both bolts from each taillight. [SEE FIG. 1A]

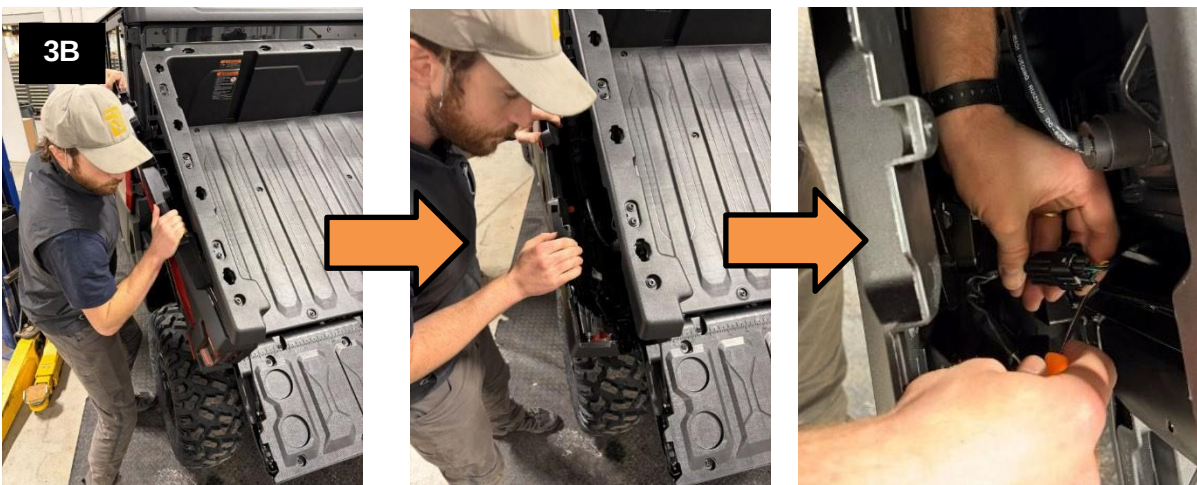
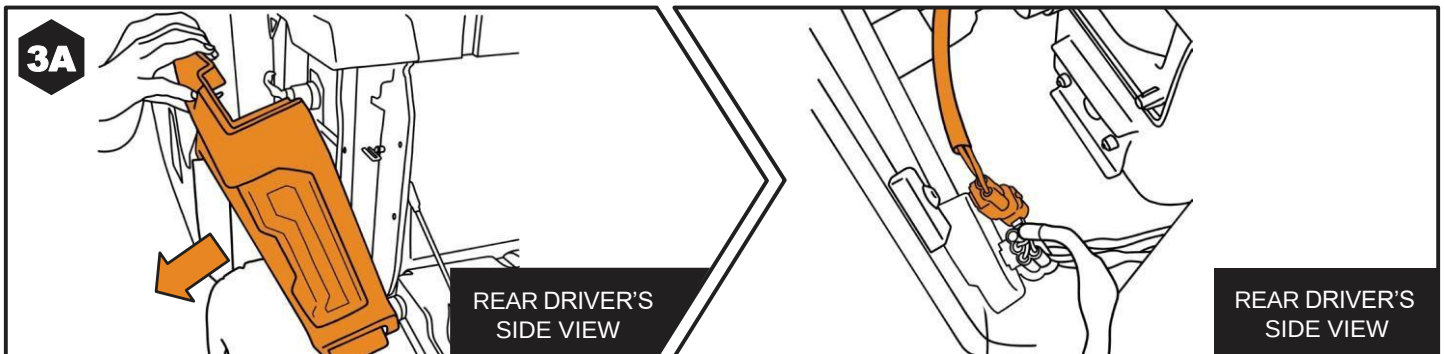


- Using a **T-30 TORX DRIVER**, remove the three upper bolts securing each side cover. [SEE FIG. 2A]
- At the lower rear section of the cover, remove the push-pin fastener using **PUSH PIN PLIERS**. [SEE FIG. 2B]
- Repeat this process on both sides of the vehicle.



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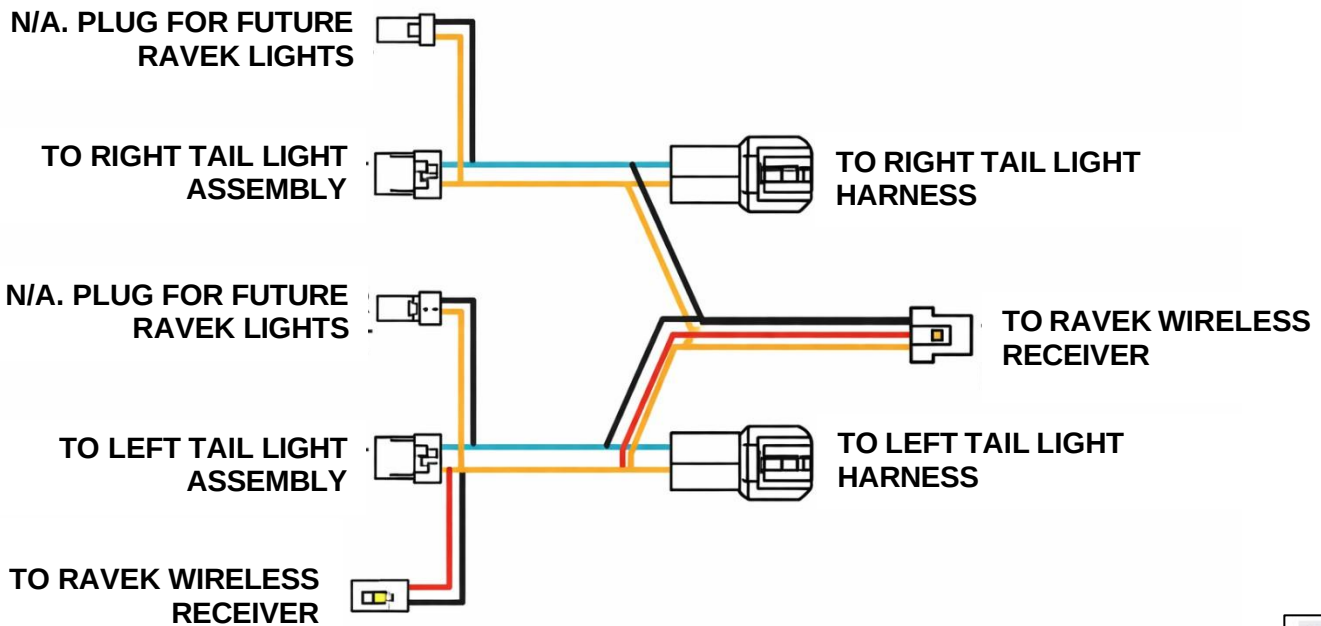
- With all bed side cover hardware removed, carefully grasp the side panel and pull it downward and outward to partially release it. [SEE FIG. 3A]
- This will provide access to the taillight connectors.
- Do not fully remove the side cover—open it only enough to reach the taillight harness.
- Unplug the taillight connector, then repeat this procedure on both sides of the vehicle; it might be helpful to use a pick tool to help you unplug the taillight connectors. [SEE FIG. 3B]



- Grab the supplied rear harness.
- Connect the rear harness inline to each taillight harness that was disconnected in the previous step, run wiring through rear frame away from hot and moving components.
- Plug the 4-pin connector from the wireless receiver into the connector labeled “REAR HARN.” on the rear harness.
- Plug the 2-pin connector from the wireless receiver into the connector labeled “LIC. PLATE” on the rear harness.
- Refer to the diagram below for connector orientation and wire routing. [SEE DIAGRAM A]

REAR HARNESS DIAGRAM

DIAGRAM A



REAR HARNESS
SUPPLIED SHOWN



WIRELESS RECEIVER
SUPPLIED SHOWN



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5

- With the wireless receiver plugged into the rear harness. Place a piece of double sided tape on the back of the receiver and stick the receiver to the vehicle.
- On the U10 specifically, the recommended mounting location is behind the left-side taillight housing, accessible through the side cover that was partially removed earlier.
 - This area provides the most secure and protected placement for the wireless receiver while driving. [SEE FIG. 5A]

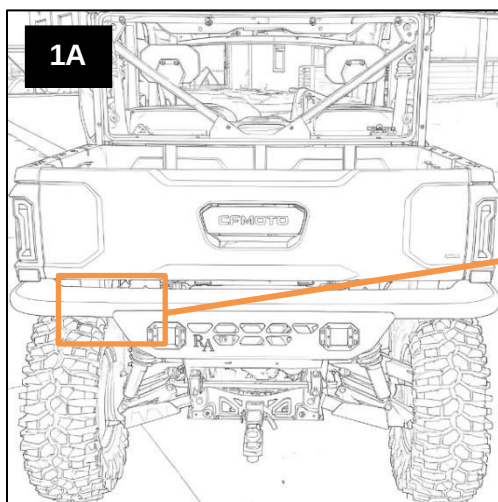


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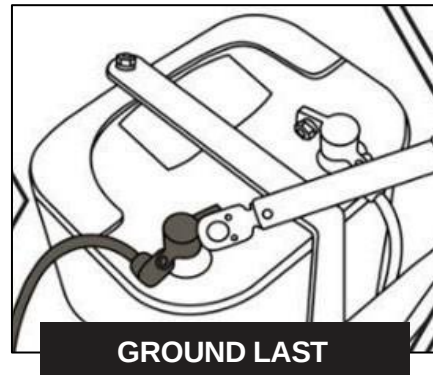
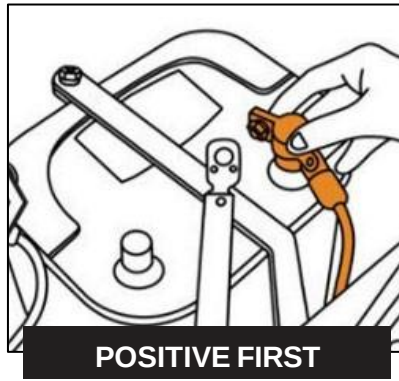
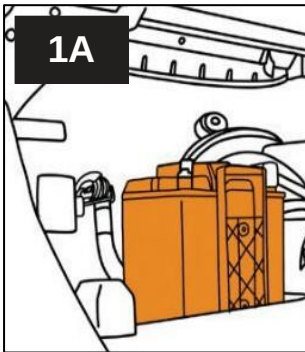
LICENSE PLATE BRACKET

1

- Grab your license plate bracket and position it on your machine.
- Align the bracket with the frame rail as shown in the images below.
- Using a **10 MM SOCKET** with an impact driver (recommended) — or a ratchet if needed — secure the bracket to the frame with the supplied self-tapping screws.
- Tighten the hardware until the bracket is firmly mounted and does not move. [SEE FIG. 1A]
- **NOTE:** License plate light is sold separately.



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



1

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

- **Hazard Lights:** Press the **Hazards** icon on the Horn/Hazards rocker switch to activate the hazard lights.
- **Turn Signals:** Press the arrow pointing **left** for a left turn, or the arrow pointing **right** for a right turn.
 - The rocker is momentary, so it automatically returns to the neutral position—no manual reset required.
 - Turn Signal Duration:
 - 1 press: 10-second signal
 - 2 presses: 20-second signal
 - 3 presses: 30-second signal
 - **NOTE:** You can manually cancel the turn signal at any time by pressing the rocker in the opposite direction.
- **Running brake lights**
- **Running white lights**
- **Brake light w/ pulse effect**
- **Left turn signal dash indicator**
- **Right turn signal dash indicator**

1A

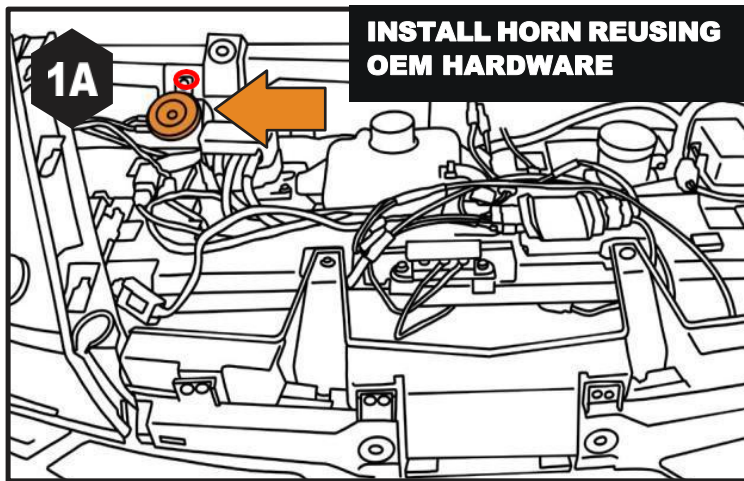


1B



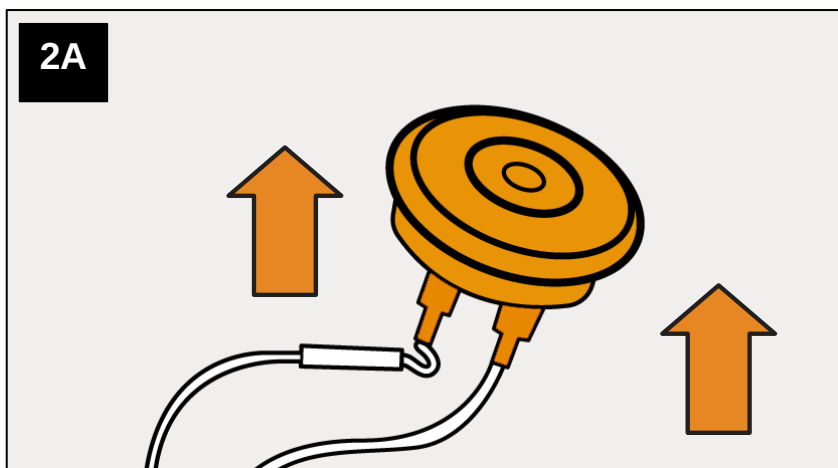
1

- Under the hood, mount the horn using the OEM hardware.
- Refer to the recommended bolt location shown for proper placement. [SEE FIG. 1A]
- Use a **T-30 TORX DRIVER** to remove the bolt and secure the horn in position.
- Ensure the horn does not contact any surrounding surfaces or panels, as this can reduce or muffle the sound output.



2

- If not already connected, connect both spade terminals from the extension harness to the horn's connectors — either terminal can be used [SEE FIG. 2A]



1

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

- 1. Horn:** To activate the horn, simply press the **Horn** icon on the Horn/Hazards rocker switch. [SEE FIG. 1A]

1A

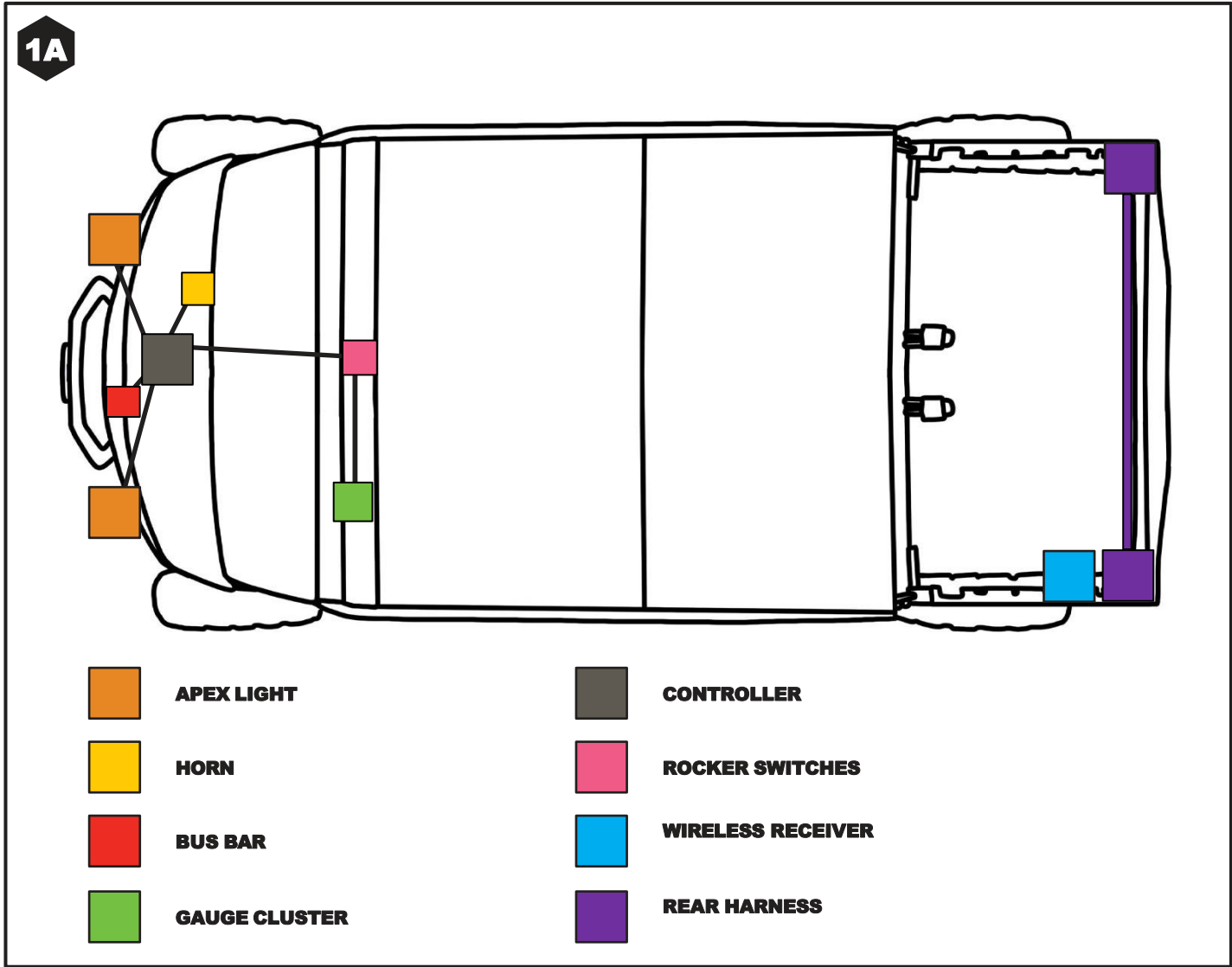


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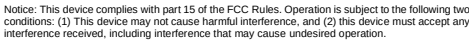
Once you have tested the kit and verified proper operation, reassemble your machine by placing all panels back in their corresponding positions.

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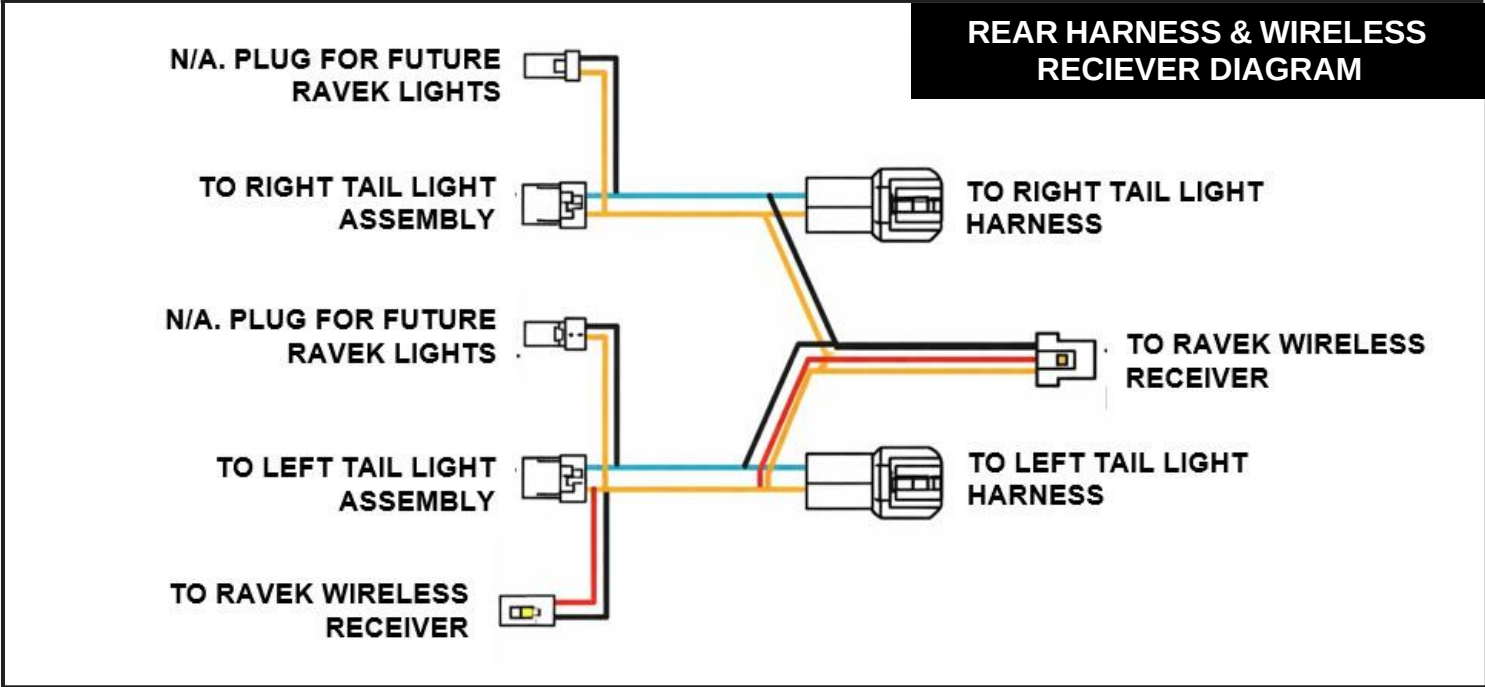
See FIG. 1A for the Kit Overview Diagram.

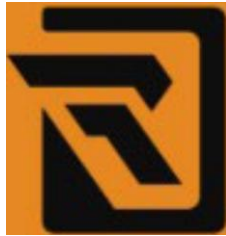


RAVEK CONTROLLER WIRING DIAGRAM



REAR HARNESS & WIRELESS RECIEVER DIAGRAM





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