



**INSTALLATION INSTRUCTIONS / OWNER'S MANUAL:
AUDIO SHADE
OFF-ROAD TOP FOR KAWASAKI MULE PRO MODELS FX, FXT, DX & DXT**

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Thank you for choosing the Hoppe *Audio Shade* off-road top. We hope you enjoy the off-road top, and we ask that you follow these instructions very closely. Doing so will save you time and ensure that your experience with the new *Audio Shade* is a positive one.

We strongly suggest that you read the complete instructions before beginning the installation process to eliminate the possibility of performing unnecessary work.

Having a safe and clean environment and using the proper tools is essential for a successful installation.

It is critical that proper eye wear, ear protection, and protective clothing is worn throughout the top installation.

When you receive your *Audio Shade* off-road top, please check to ensure that all parts and hardware are included. If there are any parts missing or if you have any questions concerning the top at this time call Hoppe at (262)-552-2770 Mon-Thur. 8am-5pm CST, or you can email us at tech@hoppeindustries.com.

Hoppe reserves the right to change specifications, equipment, or designs at any time without notice and without incurring obligation.

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SECTION 1 – Tools Required

- Socket wrench set
- Combination wrench set
- Wire cutters
- Screw drivers

In addition to the above items, you may need shop supplies such as electrical tape, wire ties, thread locking compound, or RTV silicone.


SECTION 2 – About your Audio Shade Top

2.1 Applicable Year Models:

This *Audio Shade* off-road top is designed to fit Kawasaki Mule Pro FX, FXT, DX & DXT models.

- 2015-2021 Mule Pro-FXT
- 2016-2021 Mule Pro-FX
- 2016-2021 Mule Pro-DX
- 2016-2021 Mule Pro-DXT

2.2 Audio Equipment Details:

Your *Audio Shade* off-road top is powered by  using their premium quality power sports series audio equipment. This equipment is designed to function in all weather conditions with an IPX6 water resistance (powerful water jet) rating. The stereo is specifically engineered to provide excellent sound quality and volume in an open air power sports environment so you can enjoy your music on the go.

To learn more details about your stereo system, you can access product information and manuals for the stereo equipment here:

- KMC2 receiver: <https://www.kicker.com/46KMC2>
- Sub-woofer amplifier: <https://www.kicker.com/pxa5001-500-watt-compact-powersports-mono-amplifier>
- Speaker amplifier: <https://www.kicker.com/pxa3004-4-channel-compact-powersports-amplifier>
- Sub-woofers: <https://www.kicker.com/2016-comprt-subwoofers>
- Speakers: <https://www.kicker.com/42PSC654>

Your amplifier gains comes pre-adjusted from the factory and are tuned for optimum sound quality and system protection. This means you can feel free to crank the volume without much worry of harming your system. However, it is wise to use a little common

sense. If you hear any distortion, back off a little. We recommend you do not adjust the gains from the factory settings without first consulting Hoppe Industries.

Please note that your subwoofer will take 20 to 30 hours of play time to fully break in and reach its maximum output. You do not need to do anything different during this break in period. In fact, the more you listen and the louder you turn it up, the quicker you will reach the maximum potential. Use the equalizer settings in your KMC2 receiver to adjust the bass as needed throughout the break in period.

2.3 Warranty:

Your *Audio Shade* comes equipped with a 1 year limited warranty covering the lights, the stereo equipment, and the fiberglass top. The date of warranty coverage will be determined by the registration date of the warranty card or online warranty registration.

<http://www.motortrike.com/TrikeAccWarranty.aspx>

If the warranty is not registered with Hoppe, the warranty period will begin when the Audio Shade was shipped from Hoppe's factory.

2.4 Care and Maintenance:

Your off-road top does not require any maintenance other than an occasional cleaning. To clean your top, simply hose off or power wash from a distance. If needed, use a mild automotive soap and sponge or brush. Use common sense. Do not use a high pressure power washer up close where it could cut, scar, or force water beyond the design intent of the top, lights, or stereo equipment.

The fuse box for the amplifier, radio, light bars, and interior lights can be accessed by removing the cover plate located above the driver's side front seat.

There is also a mini 40 amp ignition relay built into the chassis harness near the battery terminal end of the harness, as shown in Figure 1.



Figure 1: Chassis harness relay.

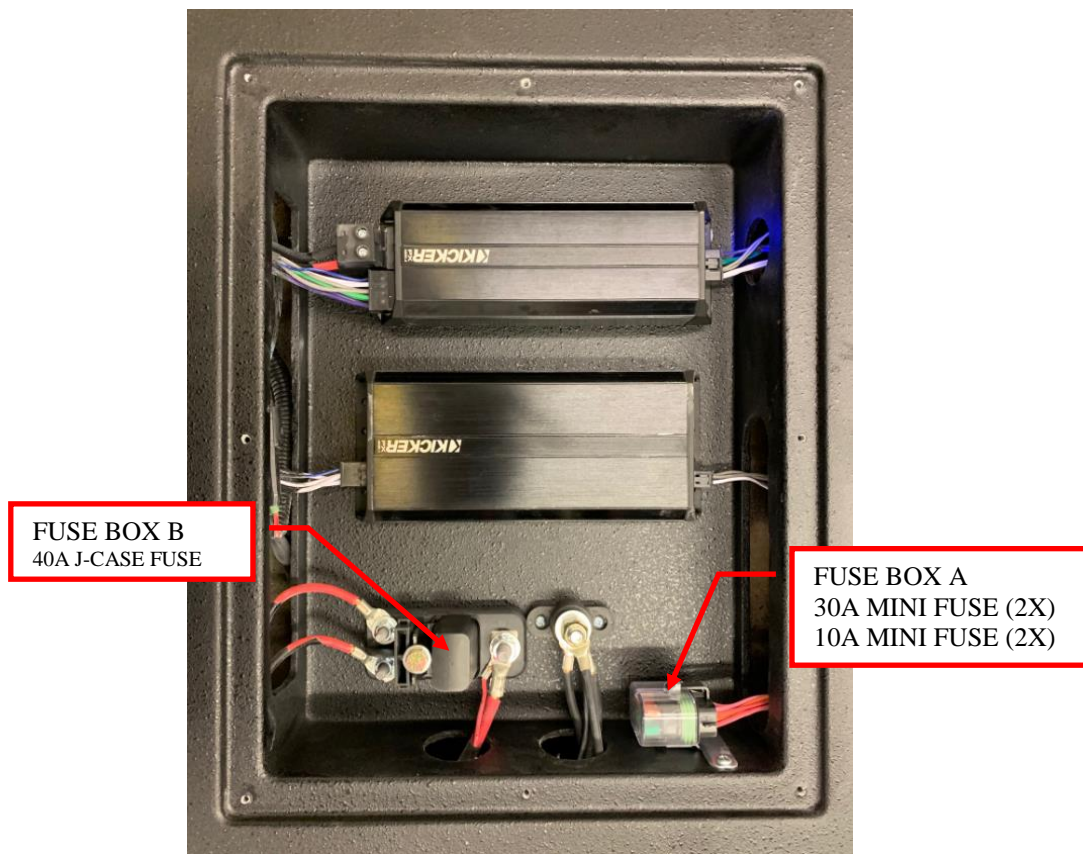


Figure 2: Fuse locations.

- Fuse 1 Box A: 30 amp mini fuse for rear light bar
- Fuse 2 Box A: 10 amp mini fuse for interior light
- Fuse 3 Box A: 30 amp mini fuse for front light bar / radio receiver power.
- Fuse 4 Box A: 10 amp mini fuse for illumination / radio receiver ignition.
- Fuse Box B: Each amplifier uses a 40 amp J-Case fuse located under the black plastic cover shown in Figure 2.

2.5 Warnings:

This off-road top adds up to 125 lbs. to your vehicle and is located up high on the roll cage. This increases the vehicles center of gravity and changes the vehicle dynamics and handling characteristics. Use extra caution as you learn the driving characteristics of your vehicles performance with your new off-road top installed. High speed cornering, off camber or side hill, acceleration, and braking performance will be negatively impacted by the weight of the top.

Do not listen to your stereo at an uncomfortable volume for extended periods of time. Potential hearing loss may result.

The driving lights provided with your Audio Shade are blinding to oncoming drivers. These are made for off road use only, and should be turned off when another vehicle is approaching on the trail.

SECTION 3 – Pre-Installation Inspection

Included in your off-road top are the following components:

- Pre-assembled *Audio Shade* off-road top. (All speakers and electronics come preinstalled with interior wire harness.)
- Chassis wire harness.
- Rear light bar extension harness.
- Four (4) cage clamps.
- Hardware bag.

If any of the parts are missing, damaged, or you have any questions concerning them, please call Hoppe at (262)-552-2770 Mon-Thur. 8am-5pm CST.

In addition to accounting for all of the parts that you should receive with the top, you should inspect the vehicle in the following ways.

- Ensure that the vehicle is equipped with the factory roll cage, and the roll cage has not been bent out of shape in a roll over.
- Make sure the vehicle does not have any aftermarket accessories that are incompatible with the top. **Note: This top is designed to be compatible with most factory windshields.**
- Make sure the battery is in good condition and holds a charge.
- Make sure the charging system is in good condition.

SECTION 4 – Installation

Notes:

- The factory roof must be removed prior to performing this installation.
 - Installation may vary by model. Look for notes throughout these instructions. FXT / DXT models have optional factory flip up roof installation.
1. Remove the cage clamps and 3/8"-16 bolts and washers that come pre-installed on the top. Save the hardware for installation. See Figure 3 and Figure 4.

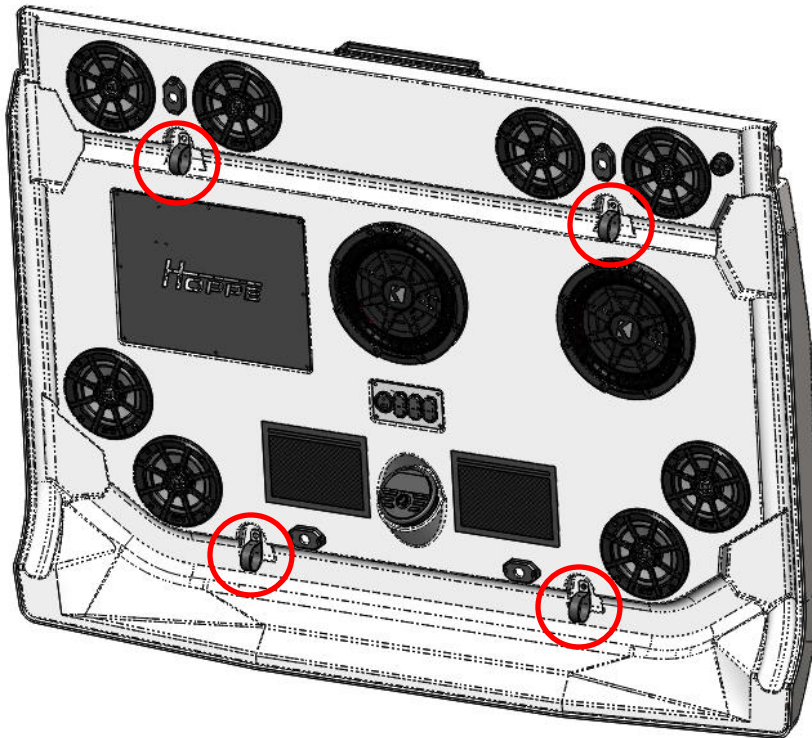


Figure 3: Remove the 4 clamps from the top.

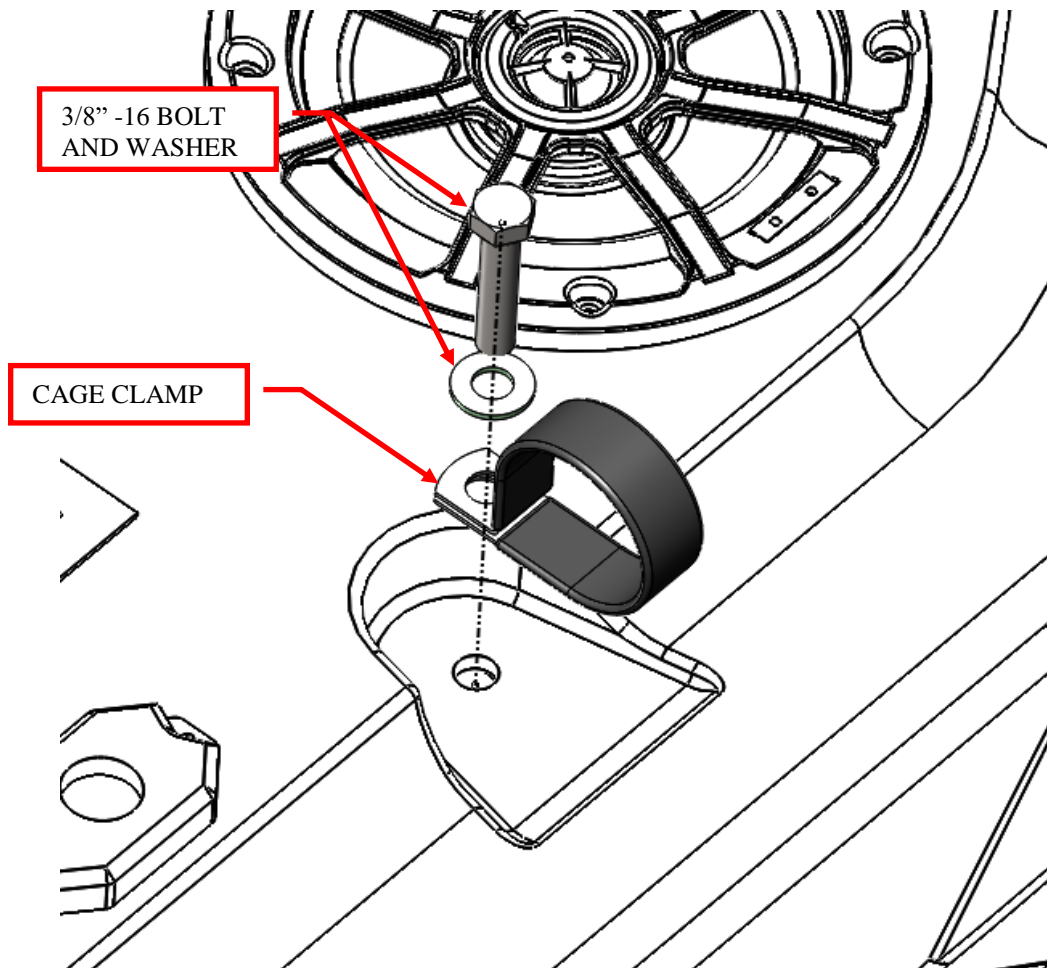


Figure 4: Close up of cage clamp hardware.

2. Spread the clamps by hand and slide them over the cage tubing. Place them on the cage in the approximate locations shown in Figure 5. Note the orientation of the clamp tab. It must line up with the hole, flat against the top, on the correct side of the tubing.

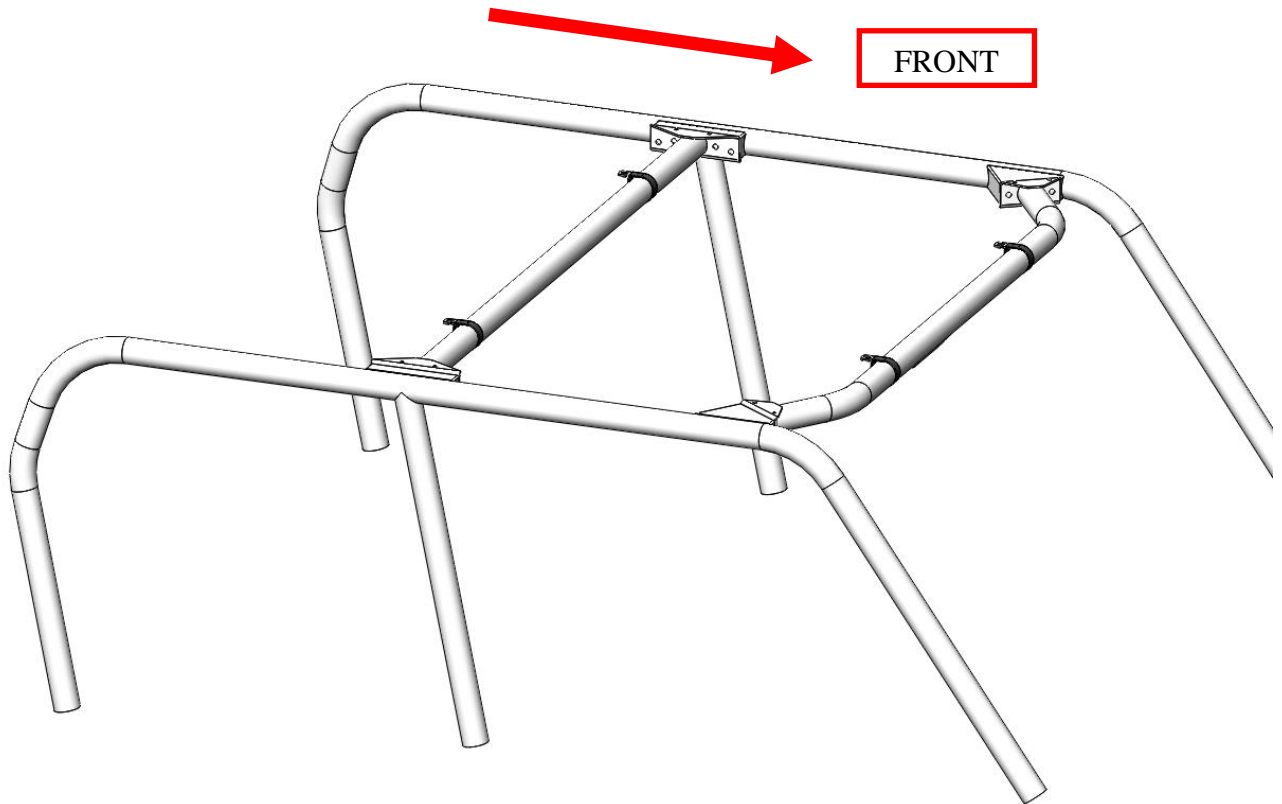


Figure 5: Approximate clamp locations (FXT / DXT cage shown, FX / DX cage similar).

3. Using a few assistants, set the *Audio Shade* off-road top on the cage. The top is contoured such that the cage fits inside the grooves on the top. **Note: The top weighs up to 125 lbs. depending on your configuration. Since you will have to lift and reach, it is helpful to have up to 4 people for this step.** See Figure 6.

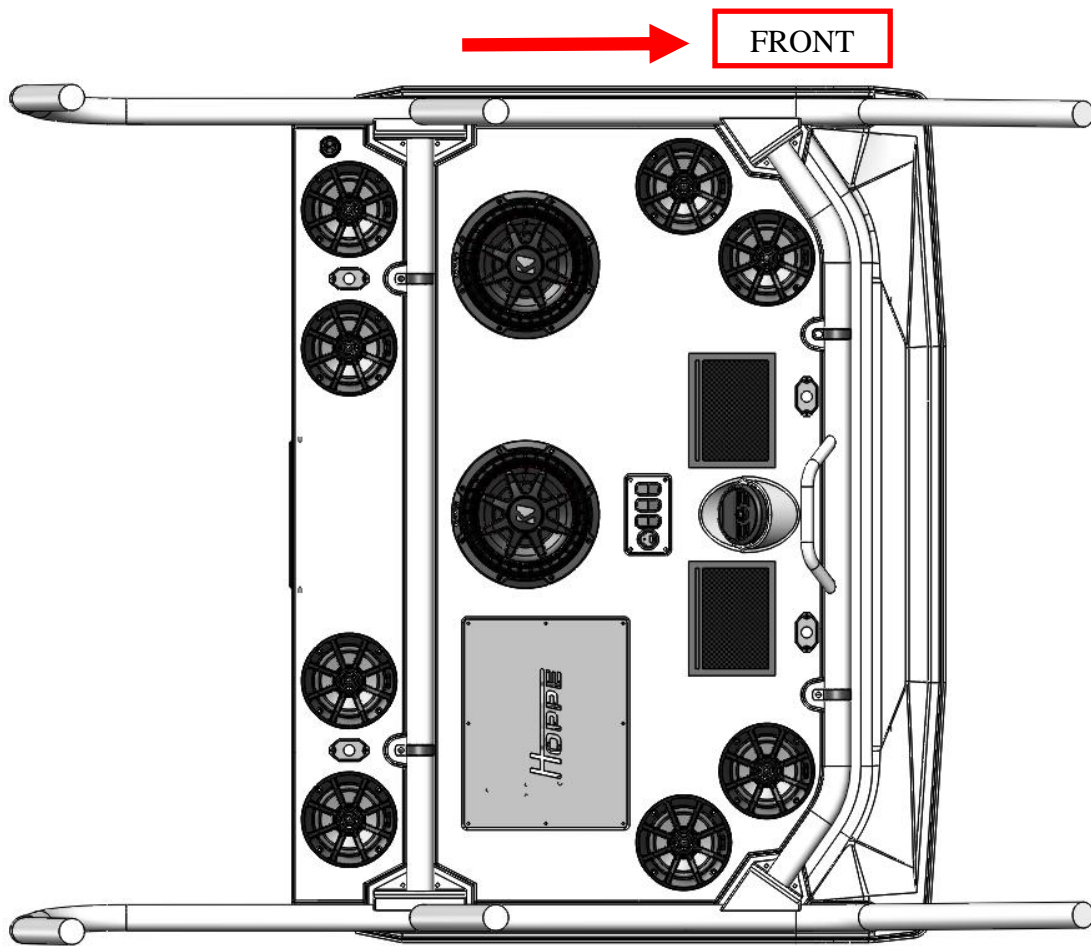


Figure 6: Install the top on the cage.

4. Slide the clamps into position so they line up with the threaded holes in the top. For all 6 clamps, install the 3/8-16 x 1 1/4" bolt with washer through both clamp tabs and into the threaded hole in the top. Use blue Loctite 243 (medium strength) and torque the bolts to 25 ft.*lbs. See Figure 4.

NOTE: For FXT / DXT models, owners have the option to install the rear flip-over factory roof and relocate the rear light bar. We recommend doing this to retain the function of the rear roof and protect backseat passengers from the elements. However, some owners may leave their bed shifted forward and prefer not to use the rear seat. Steps 5 through 14 below are for FXT and DXT owners only who want to retain the rear seat roof.

5. Unbolt the light bar from the roof of the Audio Shade. Pry the wire harness grommet from the roof, and pull the harness out to access the light bar connector. Unplug the connector and set the light bar aside. See Figure 7.

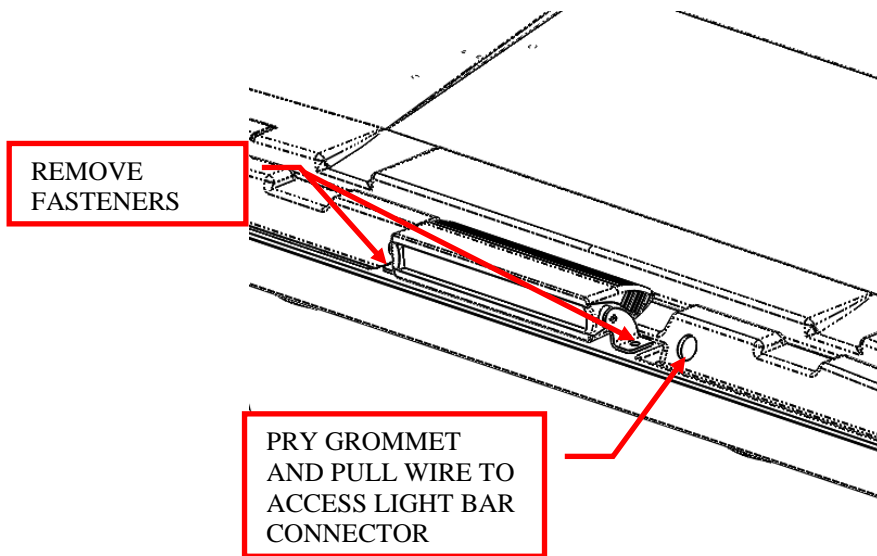


Figure 7: Remove the rear light bar.

6. Fill the bolt holes for the light bar with black RTV silicone to seal them. Reinstall the ¼-20 button head bolts with washers through the silicone and tighten to plug the sealed holes.
7. Remove the outside rear speakers using a phillips head screw driver. Carefully unplug the speaker wires and set each speaker aside. See Figure 8.

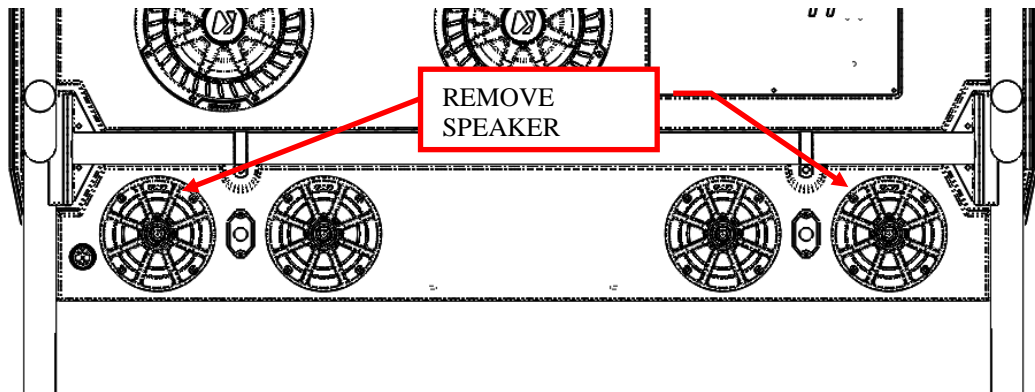


Figure 8: Remove the outside rear speakers.

8. Unscrew the factory rear roof from the factory front roof using a Phillips screw driver. Leave the hinges attached to the rear roof section.
9. Place the factory rear roof on top of the cage and lineup the hinges with the holes in the Audio Shade roof. Remove the fasteners plugging the hinge holes in the roof. Re-install the ¼-20 button head fasteners through the hinges. Use an assistant to hold the nut with washer on the inside of the roof (access through the outside speakers) while you loosen or tighten the button head bolts. Apply black RTV silicone under the head of the bolts to seal the holes. See Figure 9.

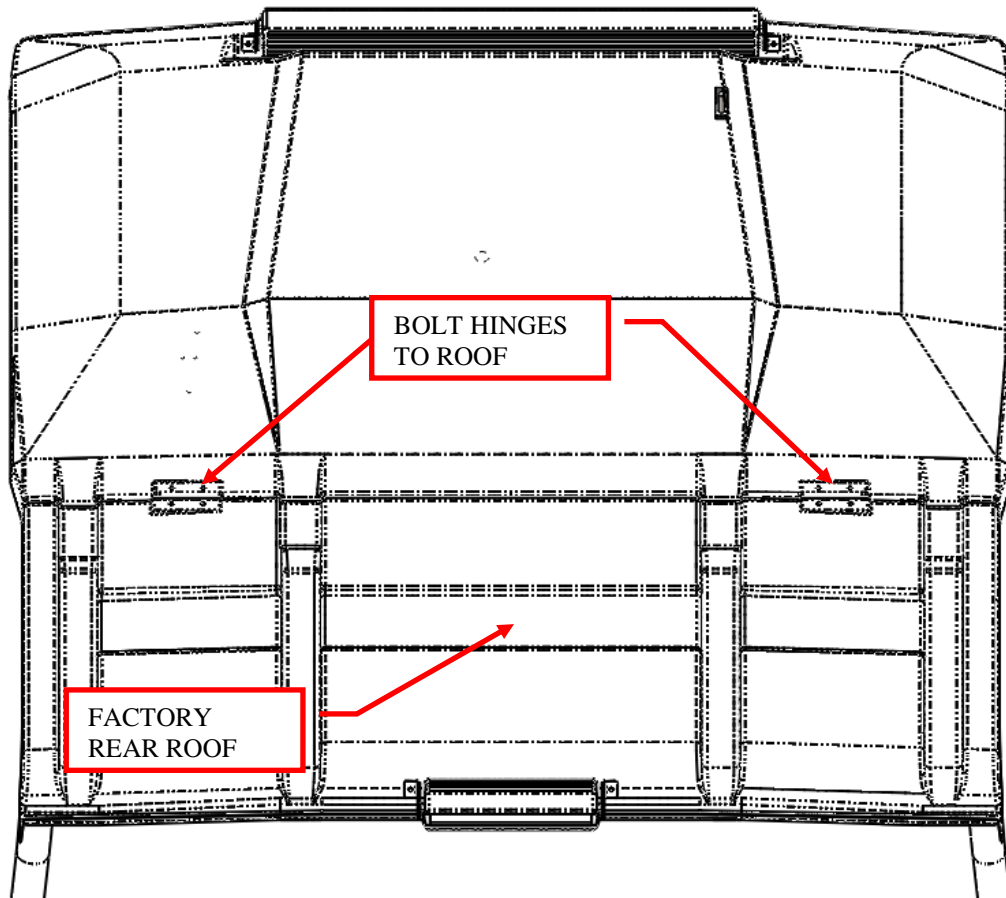


Figure 9: Attach the factory roof to the Audio Shade roof.

10. Reinstall the speakers. Be sure to connect the small tab to the small quick disconnect and the large tab to the large quick disconnect to ensure proper wiring polarity.
11. The factory Kawasaki roof trim line varies significantly from one unit to the next. They are typically a very wavy trim edge and often catch on the factory installation when flipping the roof over. You may have to trim the edge highlighted in Figure 10 for the roof to flip-over as intended with the Audio Shade roof. Although the Audio Shade roof duplicates the contours of the factory roof in this area, it is too rigid for the rear roof to flip-over when it is not properly trimmed. Use a small angle grinder to sand the edge to the desired height. Test function by flipping the roof back and forth until it clears.

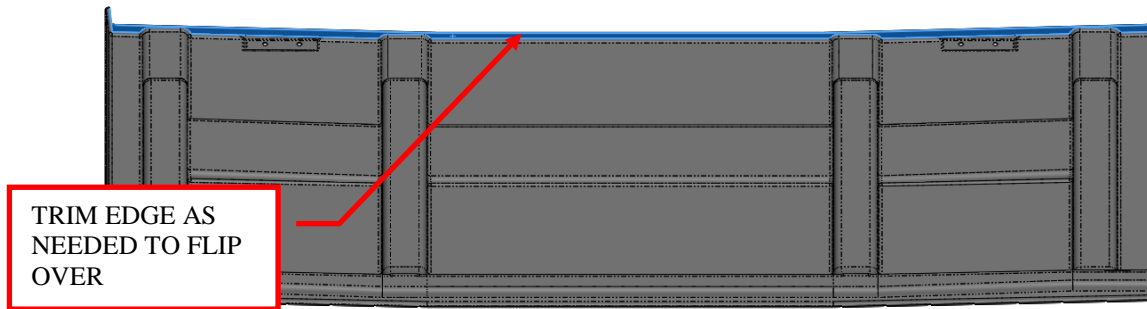


Figure 10: Trim roof edge.

12. Replace the short light bar brackets with the long light bar brackets provided separately. See Figure 11.

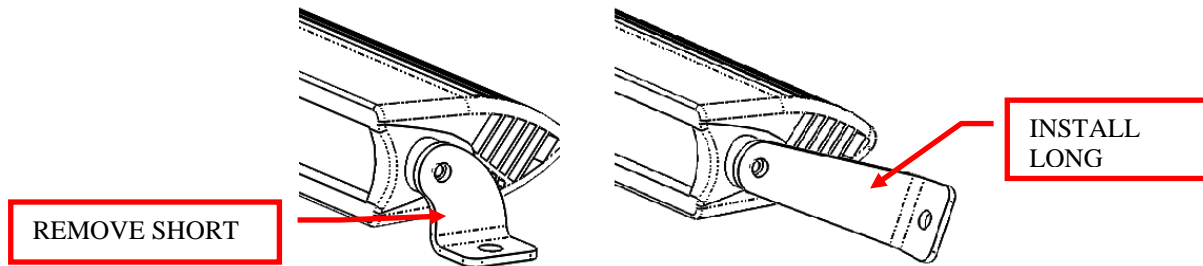


Figure 11: Replace the light bar bracket.

13. Apply masking tape to the rear of the factory roof where the light bar will mount. Using a marker and measuring tape, locate and mark the centerline of the roof. Measure $6 \frac{5}{8}$ " to each side of the centerline and mark the edge of the light bar brackets. Hold the light bar in position by lining it up with marks. Mark the hole locations using the light bar as a template. Also mark where the wire harness comes out of the light bar. Drill $\frac{5}{16}$ " holes through the roof for the mounting tabs. Drill a $\frac{15}{16}$ " hole for the light bar grommet. See Figure 12.

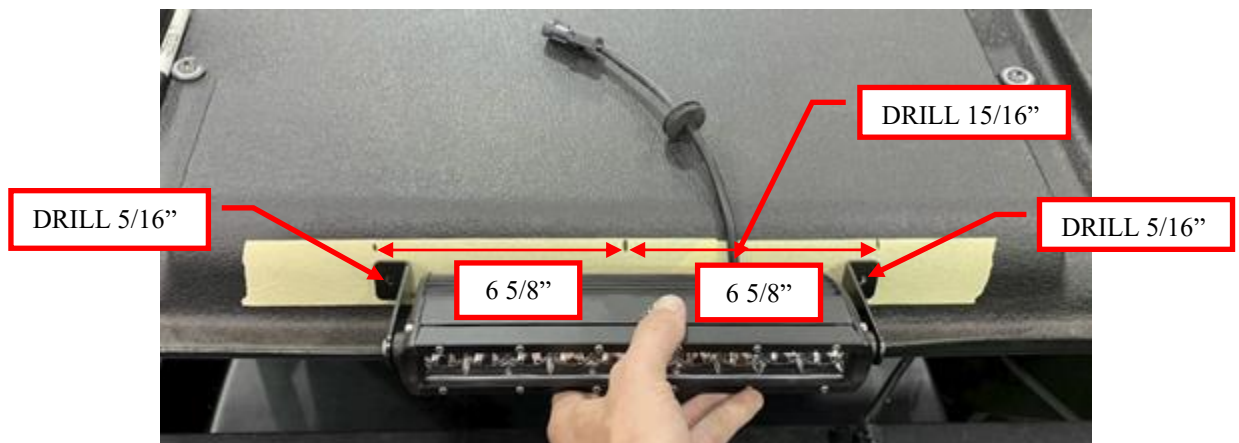


Figure 12: Measure to locate light bar holes.

14. Bolt the light bar to the rear of the factory roof using the supplied 1/4-20 button head bolts, nylock nuts, and fender washers. See Figure 13 and Figure 14.

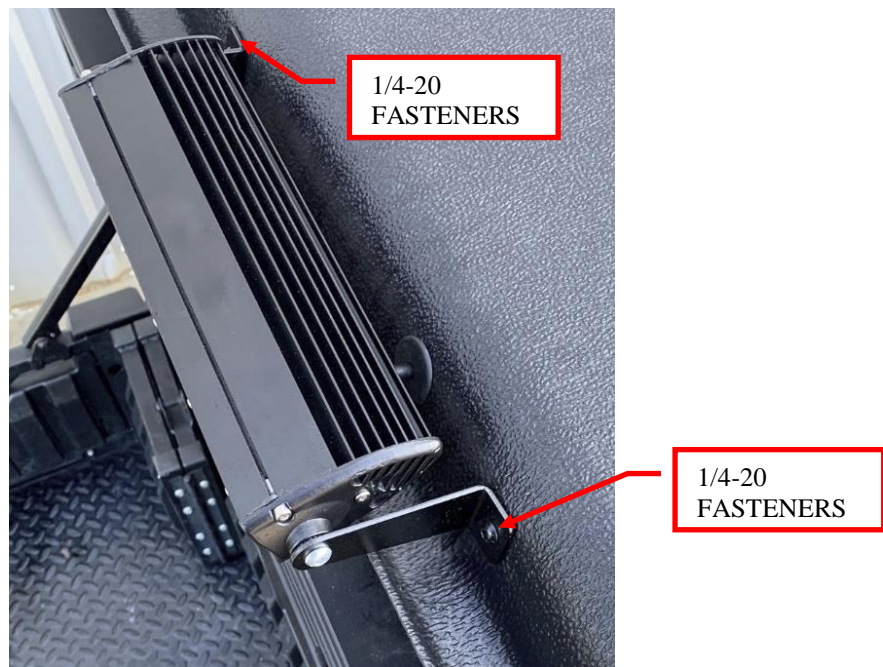


Figure 13: Bolt the light bar to the rear factory roof.

15. Connect the light bar extension harness to the mating plug on the Audio Shade roof. Push the grommet on the harness into the mating hole on the roof. With roof fully open, secure the extension harness to the underside contours of the roof with the supplied zip ties and zip tie stick-on anchors. Be sure to clean the roof with the supplied alcohol wipes prior to attaching the anchors. See Figure 14.

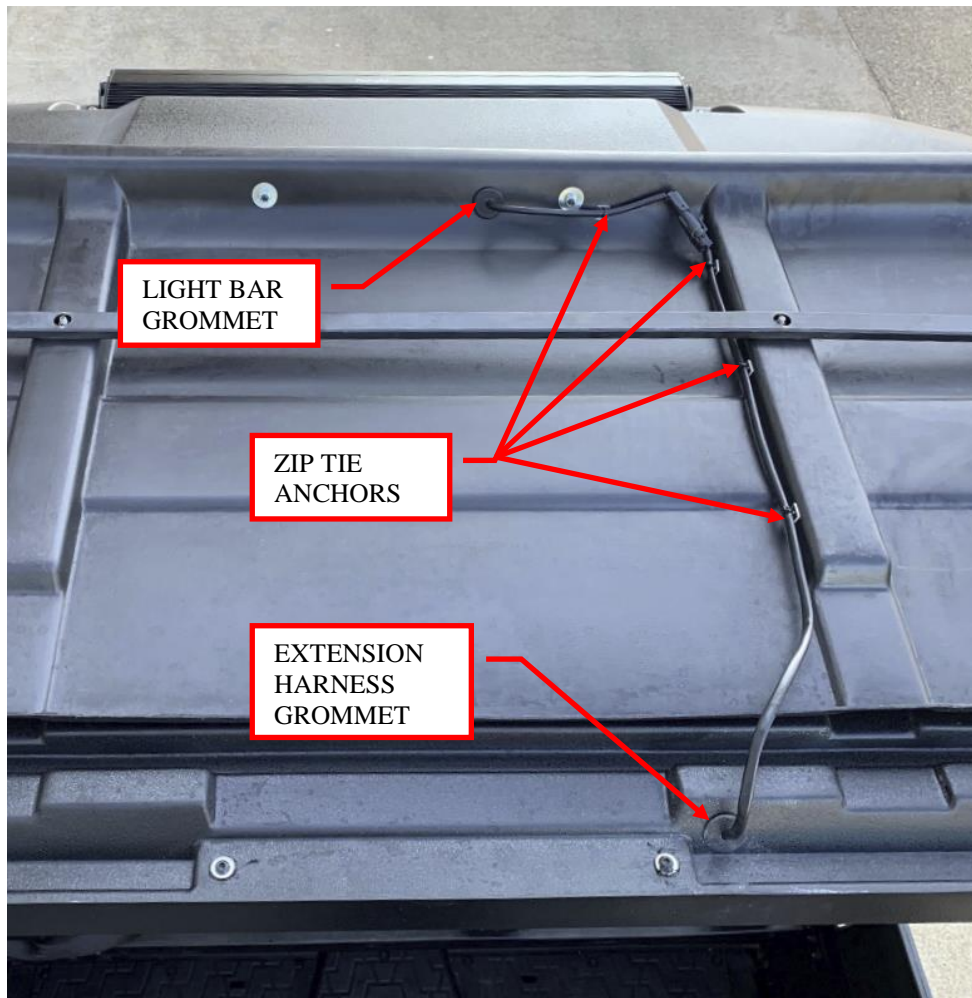


Figure 14: Run the extension harness.

16. Remove the battery compartment cover by unlatching the front and side latches. See Figure 15.

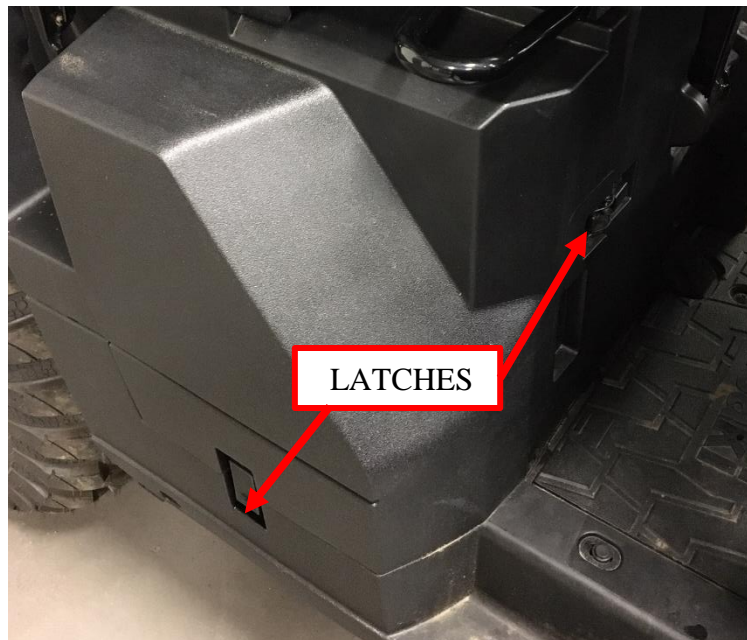


Figure 15: Remove the battery compartment cover.

17. Route the chassis wiring harness along the down tube on the passenger's side rear corner of the cage. The ends with the battery terminals and relay block extend through the plastic seat trim, into the battery compartment under the rear seat. See Figure 16. FXT / DXT model shown. FX / DX model similar.

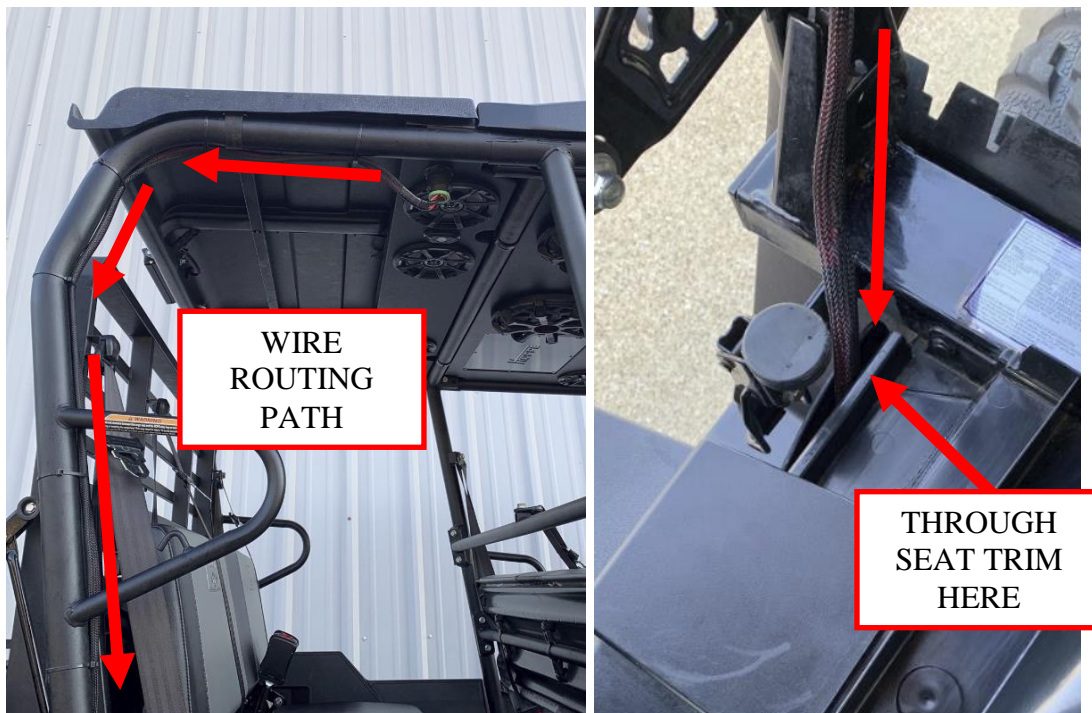


Figure 16: Route the battery cable wiring.

18. Connect the red power wire to the positive terminal of the battery. Connect the black ground wire to the negative terminal block. Re-use the factory hardware. See Figure 17.

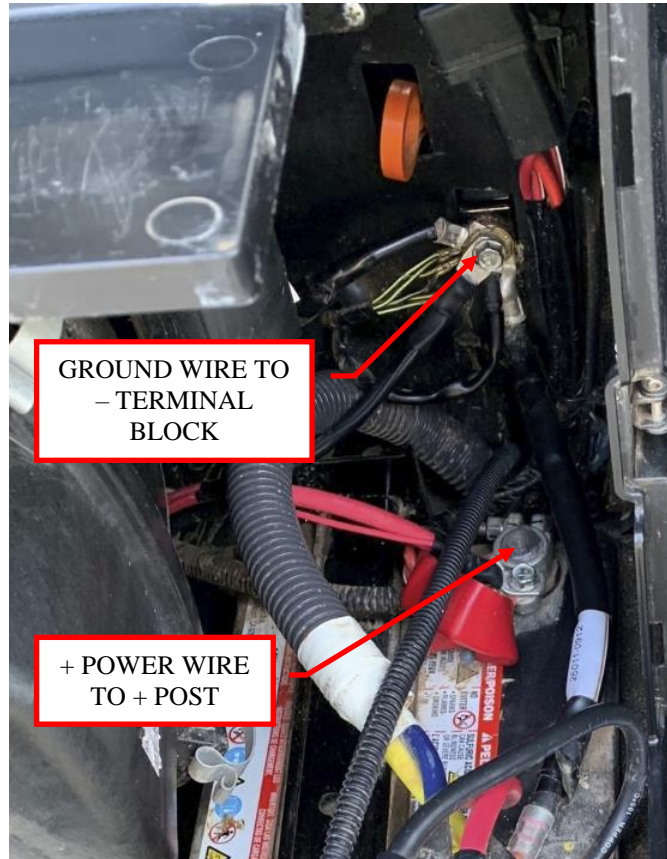


Figure 17: Attach the main power / ground wire.

19. Run the ignition wire out the back of the battery enclosure and down the frame. Plug the male bullet connector on the end of the ignition wire into the mating female bullet connector on the brown wire with white stripe. The female bullet connector on the Kawasaki OEM harness is located under a rubberized plastic cover. **Note: Secure any loose wire so that it will not get caught on any moving parts (gas struts, bed, etc.). Tape up the bullet connector inside the rubber boot.** See Figure 18.

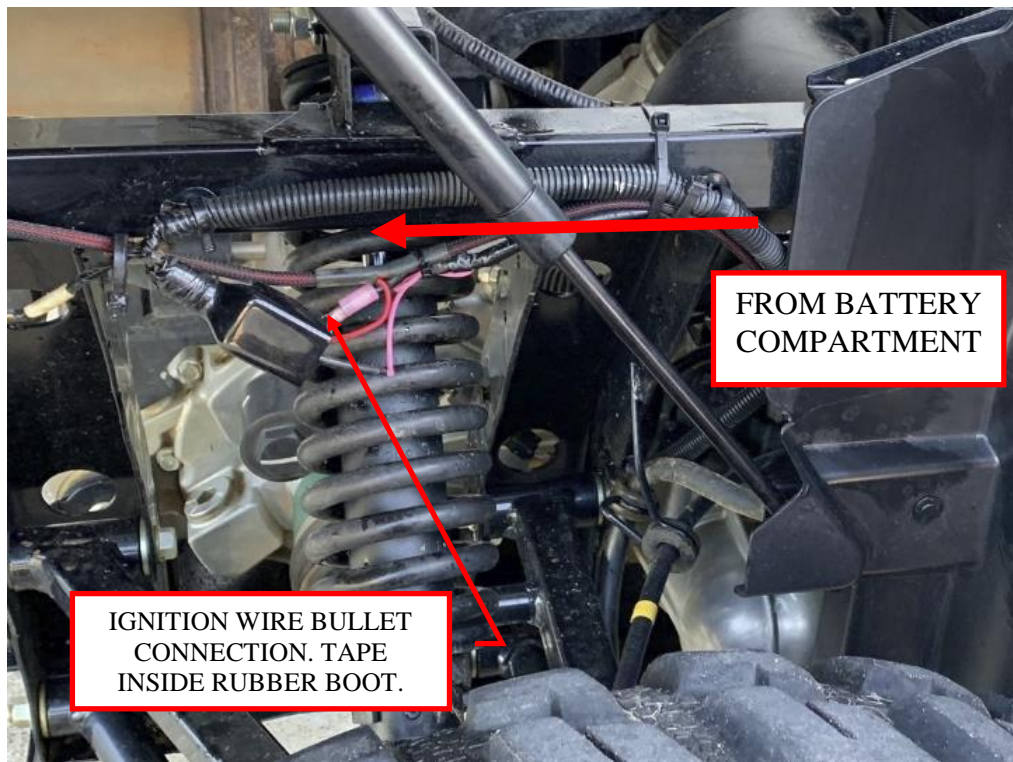


Figure 18: Ignition wire connection.

20. Connect the Audio Shade roof to the chassis wire harness. Align the connector terminals and rotate the connector housing $\frac{1}{4}$ turn to lock in place.



Figure 19: Align connector terminals and rotate $\frac{1}{4}$ turn.

21. Use zip ties to secure the chassis harness to the roll cage. Make sure the wires are secured away from any moving suspension components or hot exhaust. Work your way from the bulk head connector on the top to the battery.

22. You are now ready to enjoy the music, lighting, and shade provided by your *Audio Shade* off-road top. Basic operation works as follows:

- Turn the vehicle ignition switch on to power up the stereo system.
- Press the source button on the stereo receiver to select the input source from AM/FM radio, Bluetooth, or Auxiliary.
- Press and hold the menu button to access the Device Settings menu.
 - Use the Volume knob to change the values for each setting, and press it to confirm the setting.
- Press and hold the Volume knob to access the Audio Settings menu.
 - Use the Volume knob to change the values for each setting, and press it to confirm the setting.
- The front and rear light bars can be used with or without the vehicle's ignition switch on. Press the toggle switches to activate each component. **Warning:** extended use of the light bars without the vehicle's charging system functioning will deplete the battery and the engine may not start.
- To control the interior light color or make them dance to the music, download the Bluetooth app to your iOS or Android device. The app information is included with your *Audio Shade* and is located in the zipper pocket.

To learn about the more advance features and operation of your stereo, visit the Kicker website links found in SECTION 2 – About your *Audio Shade Top* of this document.

Thank you for choosing Hoppe *Audio Shade* off-road top for your Kawasaki Mule Pro UTV. We hope you enjoy your new sound system, top, and lighting. We invite you, in your travels, to stop by our manufacturing plant in Troup, Texas, for a factory tour and to meet the people who designed and manufactured your Audio Shade off-road top. This will also give you an opportunity to check out our sister companies



and our extensive line of trike conversions, automotive, motorcycle, and power sports accessories.

We believe you will be impressed by what you witness and the people you will meet.