

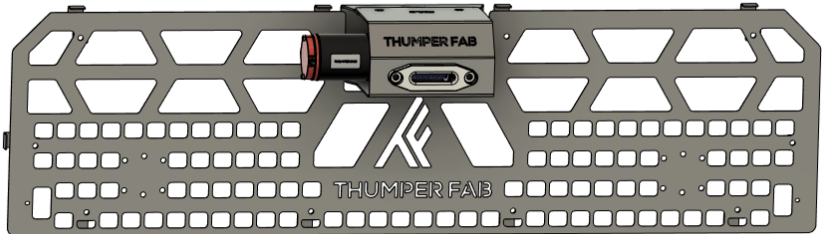


THUMPER FAB

Aluminum Audio Roofs • Roll Cages • UTV Accessories

Kawasaki Mule Headache Rack

SKU: TF271601



Thumper Fab

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Ver. 0626

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PARTS

REF	QTY	DESCRIPTION
1	1	Winch Mount
2	1	Winch Mount #2
3	1	Rear Panel
4	10	Z Clamp
5	1	Bed Limiter Bracket
6	1	Switch Mount Bracket
7	1	TF Big Game Winch
HARDWARE KIT		
A	16	M8 Flange Nylon Lock Nut
B	12	M8x20mm Button Head Screw
C	4	M8x45mm Flange Head Bolt
D	4	M6x20mm Flange Head Bolt
E	4	M6 Lock Washer
F	1	1/2" x 3-1/2" Flange Head Bolt
G	1	1/2" Flange Nylon Lock Nut
H	3	#10 Nylon Lock Nut
I	3	#10 x 1/2" Socket Cap Screw
J	2	Winch Extension Wire
K	1	Junction Block
L	1	Terminal Covers
M	1	Bullet Connector
N	4	Push Mount Zip Ties
O	10	Zip Ties

TOOLS

- Drill
- 3/16 & 1/4" Drill Bit
- 5mm Allen Wrench
- 10mm Socket
- 13mm Socket and Wrench
- 3/4" Socket and Wrench
- Snips
- File or Pencil Grinder
- Test Light
- Crimp Pliers

BEFORE YOU BEGIN

If you do not feel comfortable installing your **Thumper Fab** Headache Rack, please see your nearest Kawasaki® Dealer for installation.

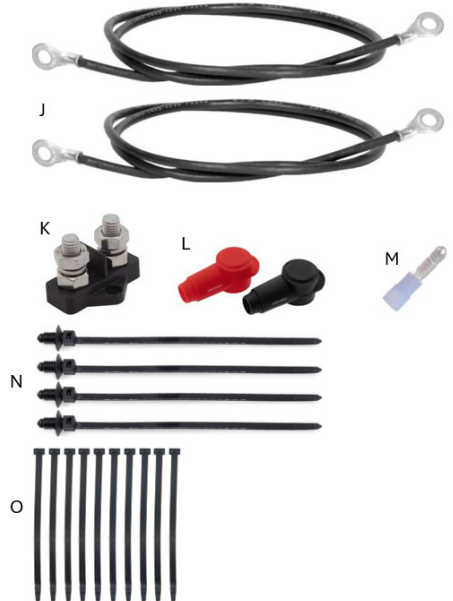
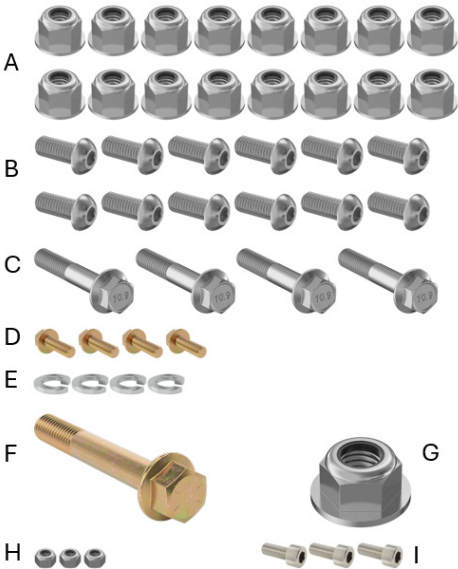
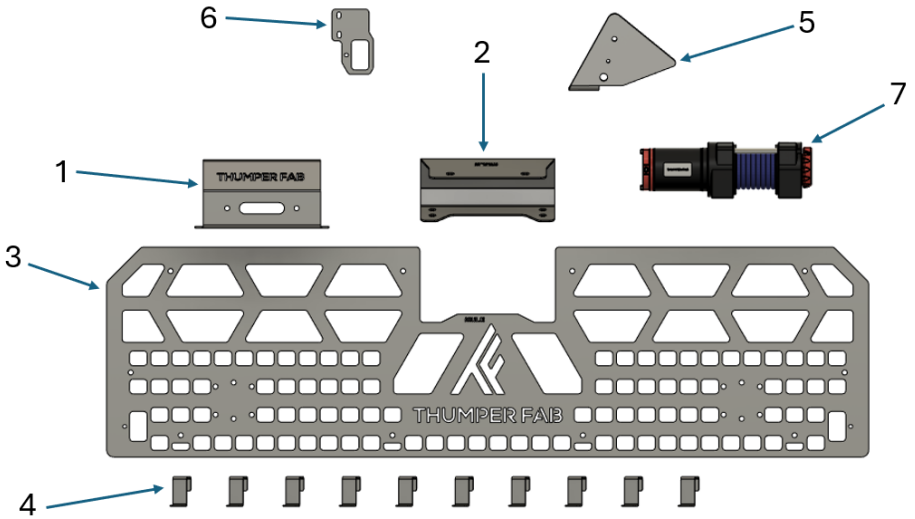
Torque Specs:

SIZE (STANDARD)	GRADE 5	GRADE 8
5/16"	15 ft/lbs	20 ft/lbs
3/8"	30 ft/lbs	35 ft/lbs
7/16"	45 ft/lbs	60 ft/lbs
1/2"	65 ft/lbs	90 ft/lbs
9/16"	95 ft/lbs	130 ft/lbs
5/8"	135 ft/lbs	175 ft/lbs
3/4"	185 ft/lbs	280 ft/lbs

SIZE (METRIC)	CLASS 8.8	CLASS 10.9
6MM	5 ft/lbs	9 ft/lbs
8MM	18 ft/lbs	23 ft/lbs
10MM	32 ft/lbs	45 ft/lbs
12MM	55 ft/lbs	75 ft/lbs
14MM	85 ft/lbs	120 ft/lbs
16MM	130 ft/lbs	165 ft/lbs
18MM	170 ft/lbs	240 ft/lbs

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SAFETY

Below is a breakdown of bed positions Thumper Fab does and does not recommend using the winch in.



Use of winch not recommended in long bed, dumping position. Bed is not adequately locked in long bed position to safely handle winching loads. In long bed position (Non dumping) winching is acceptable as bed frame is locked in place with latches on driver and passenger side.

INSTALLATION INSTRUCTIONS

Installation

Mount the rear panel to the OEM bed frame using 10 x z-clamps, 10 x M8x20mm button head screws, and 10 M8 flange nylon lock nuts using a 5mm allen wrench and 13mm socket (**FIG 1 & FIG 2**).



FIG 1 & FIG 2 - Mount Rear Panel to Vehicle

Mount the fairlead to the winch mount using hardware provided in the winch box (**FIG 3 & FIG 4**).



FIG 3 & FIG 4 - Fasten Fairlead to Winch Mount

INSTALLATION INSTRUCTIONS

Installation

Mount the winch mount and winch mount #2 to the OEM bed frame using 2 x M8x20mm socket cap screws and 2 x M8 flange nylon lock nuts. Tighten using a 5mm allen wrench and a 13mm socket (**FIG 5**).



FIG 5 - Mount Winch Mount and Winch Mount #2 to vehicle

Mount the lower portions of the winch mounts to the bed frame using 4 x M8x45mm flange head bolts and 4 x M8 flange nylon lock nuts. Tighten using a 13mm socket and a 13mm wrench (**FIG 6 & FIG 7**).



FIG 6 & FIG 7 - Fasten Lower Portion of Winch Mounts to Bed Frame

INSTALLATION INSTRUCTIONS

Installation

Thread the winch cable through the fairlead before fastening the winch to the winch mount using 4 x M6x20mm flange head bolts and 4 x M6 lock washers. Tighten using a 10mm socket (**FIG 8**).

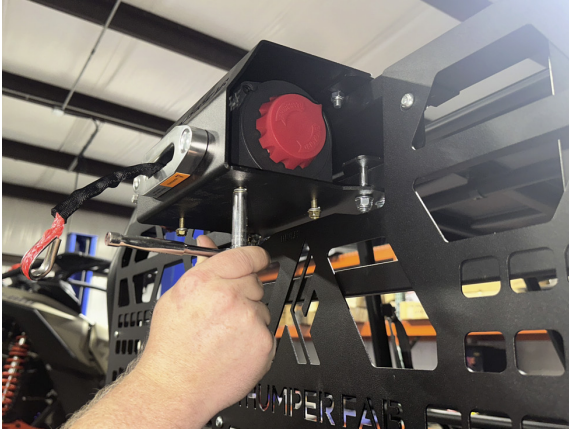


FIG 8 - Mount Winch to the Winch Mount

Mount the winch stop to the winch cable using hardware provided in the winch box. Do not overtighten. (**FIG 9 & FIG 10**).



FIG 9 & FIG 10 - Fasten Winch Stop to the Winch Cable

INSTALLATION INSTRUCTIONS

Installation

Mount the winch hook to the winch cable using a cotter pin (FIG 11).



FIG 11 - Mount Winch Hook to the Winch Cable

Remove the OEM cotter pin that holds the bed pivot pin on the driver side. (FIG 12).



FIG 12 - Remove Bed Pivot Pin

INSTALLATION INSTRUCTIONS

Installation

Mount the bed limiter bracket to the driver side bed hinge using the 1/2" x 3-1/2" and the 1/2" flange nylon lock nut. Do not overtighten (**FIG 13 & FIG 14**).



FIG 13 & FIG 14 - Mount Bed Limiter Bracket to Driver side Bed Hinge

Remove the battery cover panel to gain access to the battery. Use the contactor box as a template to mark holes in a way that will allow the contactor box to sit above the battery on the inside of the battery panel. Once marked, drill holes using a 3/16" drill bit (**FIG 15**).



FIG 15 - Locate and drill contactor box mount holes

INSTALLATION INSTRUCTIONS

Installation

Mount the contactor box to the inside of the panel using hardware removed from the switch located on the winch wiring harness (**FIG 16**).

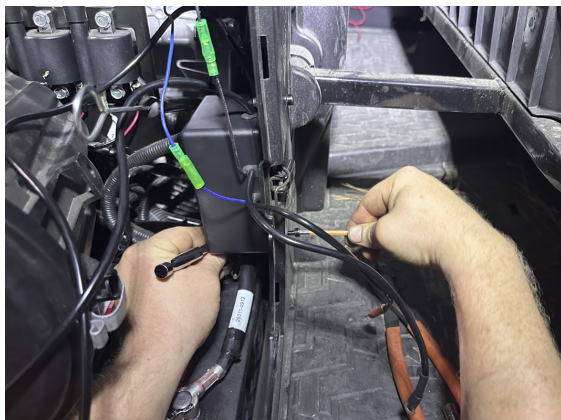


FIG 16 - Mount Winch Contactor to the inside of the Battery Box

Use the junction block as a template to mark the passenger side taillight panel. Once marked, drill holes using a 3/16" drill bit (**FIG 17 & FIG 18**).

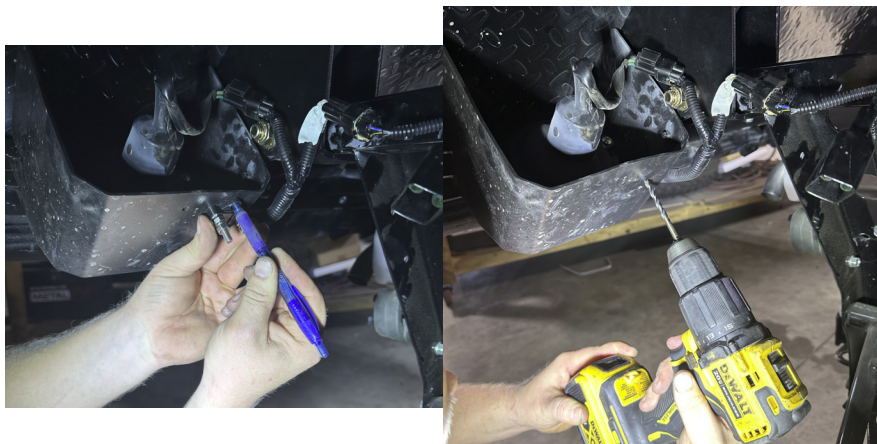


FIG 17 & FIG 18 - Mark and Drill Holes for Junction Block

INSTALLATION INSTRUCTIONS

Installation

Mount the junction box to the inside of the passenger taillight pocket using 2 x #10 x 1/2" socket cap screws, and 2 x #10 nylon lock nuts (**FIG 19**).

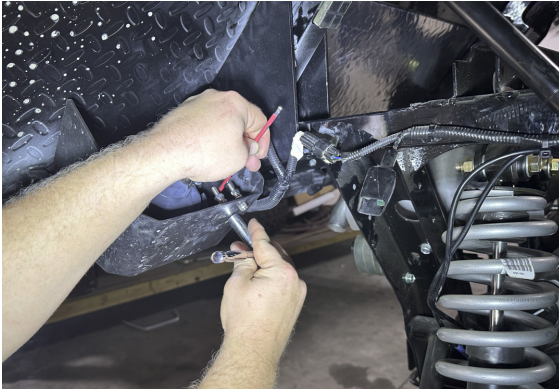


FIG 19 - Mount Junction Block to Inner Taillight Pocket

Fasten the winch extension wires to the terminals on the winch and route the harness down the OEM bed frame using zip ties to attach to the front side of the rear panel. Applying tape to both ends of one extension wire will help clarify which wire is which when connecting to the terminals on junction block (**FIG 20 & FIG 21**).

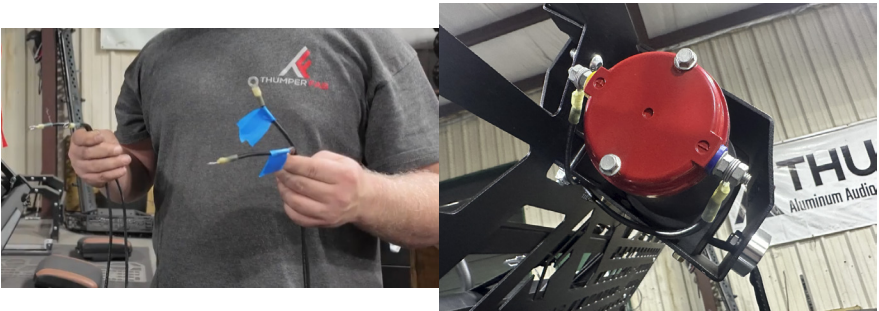


FIG 20 & FIG 21 - Fasten Winch Extension Wires to Winch Terminals

INSTALLATION INSTRUCTIONS

Installation

Route the extension wires towards the front of the vehicle using a zip tie to fasten the wires to the very lower portion of the OEM bed frame. Use a pencil grinder to notch the plastic to allow extension wires to be routed toward the junction block (**FIG 22 & FIG 23**).



FIG 22 & FIG 23 - Notch Plastic and route Extension Wires to the front of the bed frame

Route the extension wires down the passenger side bed rail, using zip ties and push mount zip ties to fasten the wire securely to the bed rail where it will not be pinched during opening and closing the bed. Drill holes in passenger side bed rail using a 1/4" drill bit for installation of push mount zip ties (**FIG 24**).



FIG 24 - Fasten Winch Extension Wires to Passenger Side Bed Rail

INSTALLATION INSTRUCTIONS

Installation

Route the winch wires from the contactor box towards the junction block down the passenger side frame rail. Tie up excess wire using zip ties while fastening to frame rail (**FIG 25 & FIG 26**).

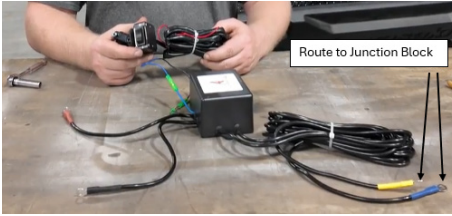


FIG 25 & FIG 26 - Route Contactor Winch Wires to Junction Block

Slide the terminal covers over the extension wires before fastening the extension wires and contactor winch wires to the junction block. Once tight, slide the terminal covers over the terminals on the junction block (**FIG 27 & FIG 28**).



FIG 27 & FIG 28 - Fasten Contactor Winch wires and Winch Extension wires to Junction Block

INSTALLATION INSTRUCTIONS

Installation

Route the switch and harness from the contactor box to the driver side rear door zip tying harness to the O2 sensor harness. (FIG 29).

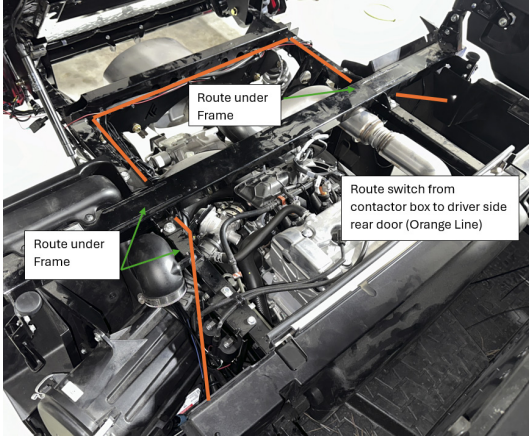


FIG 29 - Route Switch to Drivers Side Rear Door

Fasten the switch to the switch mount bracket using 1 x #10 x 1/2" socket cap screw and 1 x #10 nylon lock nut (FIG 30).



FIG 30 - Fasten Switch to the Switch Mount Bracket

INSTALLATION INSTRUCTIONS

Installation

Remove the OEM bolts that fasten the driver side bed latch to the frame. Place the switch mount bracket on the inside of the latch bracket. Reinstall the OEM bolts to fasten the switch mount bracket and latch to the frame (**FIG 31 & FIG 32**).



FIG 31 & FIG 32 - Mount Switch Bracket to Driver Side Bed Latch mount

Route the red wire from the switch harness towards the passenger side fastening it to the O2 sensor harness using zip ties (**FIG 33**).

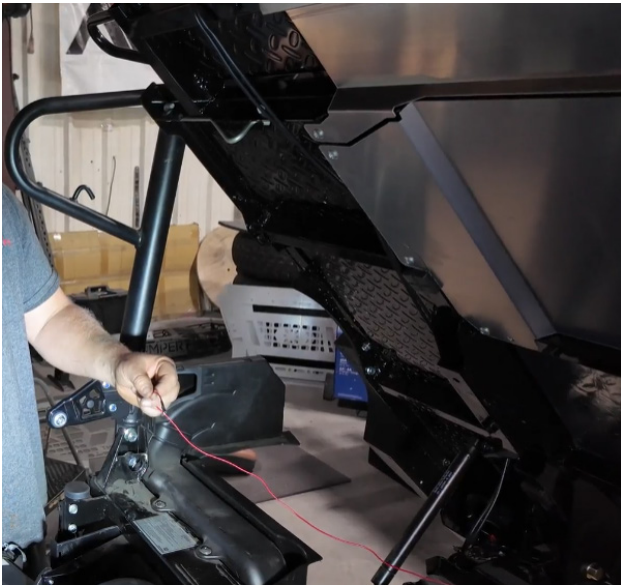


FIG 33 - Run red wire from switch harness to Passenger Side

INSTALLATION INSTRUCTIONS

Installation

If you have received a “new” style winch contactor box, there is no small red wire to connect to an ignition source. Simply wire the winch contactor box to the battery with the short red and black wires and connect the manual switch to the winch contactor box (**FIG 34**).



FIG 34 - Plug manual switch harness into winch contactor box

Winch Wiring

Once the winch harness is plugged into the winch contactor box, tighten the cable to the winch contactor box using your hands only. Pliers may strip the threads and should be avoided (**FIG 35**).



FIG 35 - Tighten switch harness to contactor box

INSTALLATION INSTRUCTIONS

Installation

Locate the OEM accessory harness found near the passenger side taillight on the passenger side rear frame rail. Use a test light to determine which of the 2 wires has key on power (**FIG 36**).



FIG 36 - Locate Key On power from OEM Accessory Harness

Crimp the bullet connector to the end of the red wire from switch harness and plug into the key on power found on the accessory harness (**FIG 37**).

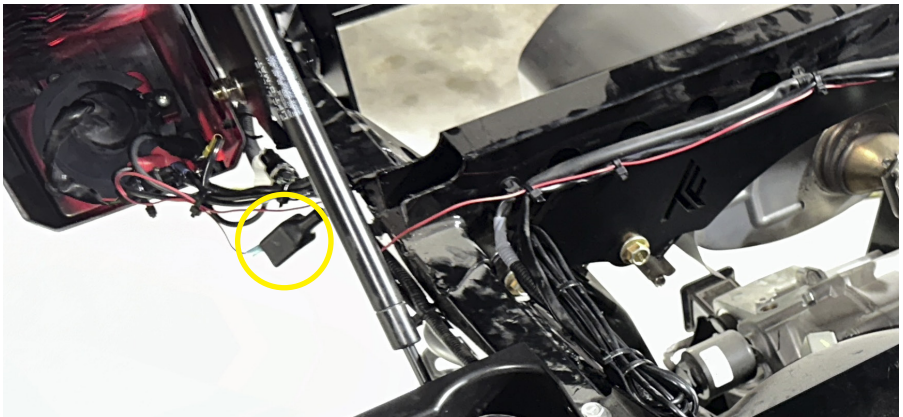


FIG 37 - Plug in Red wire to Key On Power after crimping on Bullet Connector

INSTALLATION INSTRUCTIONS

Installation

Ensure that all wiring is neat and securely fastened to the frame away from any hot, rotating components, pinch points and will allow for complete operation of bed and seats in all positions. Fasten the input wires from the contactor box to the battery terminals (**FIG 38**).



FIG 38 - Check wiring and connect Winch Harness to the Battery

Test the winch operation by turning the key on and operating the winch from the switch as well as the remote control. For the remote, you will need to turn on the remote by pressing the small red button on the remote to power it on.

TF WINCH Remote Programming

Does the red light light up when you press the buttons? If not, you may need to replace the battery in the remote. If it does light up but not work then you may need to replace the battery in the remote.

The lastly, it may need to be re-programmed. If it still isn't working, you are going to turn your unit on, then turn the remote on, (pressing the red round button) you are then going to press both the in and out buttons and hold them down, the light will flicker rapidly like it is sending a signal but keep them depressed until the red light stays lit, you will let off the buttons, then press and hold them both again until the red light flashes for a bit then goes out. You have now re-programmed your remote.

Once testing has been completed, turn the key off and the installation is complete.

INSTALLATION INSTRUCTIONS

PRODUCT DISCLAIMER

The installation of products sold or manufactured by Thumper Fabrication, LLC (Thumper Fab) including, but not limited to suspension components such as lift kits, audio roofs, roll cages, frame stiffener kits, and tires that exceed the original specifications for the vehicle, may change the vehicle's center of gravity and handling characteristics both on- and off-road. You are aware that the installation of tires that are larger than original vehicle specifications may reduce the effectiveness of the braking system. Use of these products may place added stress to the original factory vehicle components which could cause them to weaken or possibly fail.

Products sold or manufactured by Thumper Fab are intended for off-road use only. Operation of a vehicle modified with these products on a road could result in serious bodily injury or death, and such operation may violate the laws of your state or municipality. You agree to operate your vehicle exclusively in the manner intended by the vehicle manufacturer. You agree that failure to safely and reasonably operate your vehicle could result in serious bodily injury or death, and that, as a result of installation of this product(s) to your vehicle, extreme care must be taken to prevent vehicle rollover or loss of control, which may be more likely to occur as a result of said modifications. You will avoid unsafe maneuvers, including sudden sharp turns or other abrupt maneuvers, which could make a vehicular accident more likely. You understand that Thumper Fab is not responsible or liable for any damages or any injuries to yourself or your passengers that could occur upon possible accidents due to driver error, incorrect installations, bad judgment, incompatibility with other aftermarket accessories or natural disasters to the fullest extent allowable by law. You will have all vehicle occupants fasten seatbelts, if equipped, and wear proper safety equipment, such as DOT approved helmet and eye protection prior to operating the vehicle. You understand and acknowledge that failure to wear proper safety equipment may increase the risk of serious bodily injury or death to yourself and any passengers.

Proper installation of products sold or manufactured by Thumper Fab requires knowledge of the factory recommended procedures for removal and installation of original equipment components. Installation of these products without proper knowledge and experience may affect the performance of these components and the safety of the vehicle and cause serious bodily injury or death. It is strongly recommended that a certified mechanic familiar with the installation of similar components perform the product(s) installation.

Prior to installing any products sold or manufactured by Thumper Fab, you will perform or cause to be performed an inspection of their vehicle to confirm its condition is suitable for the installation of these products. A proper inspection of the vehicle includes confirmation that the vehicle has not been in a collision and is free of corrosion. If the vehicle is suspected to have been in a collision or misused, or is otherwise unsuitable for modification, you will not install the product(s). You will continue to inspect the vehicle prior to each use to confirm its condition is suitable for its intended use, and you acknowledge that the failure to do so may result in serious bodily injury or death, as well as damage to the vehicle itself.

You will install any warning labels provided with the product so it may be prominently seen by yourself and all passengers. You will notify all passengers of the modifications performed to your vehicle prior to operation.

Insurance companies may handle coverage of a modified vehicle differently. Please check with your insurance carrier prior to modifying the vehicle to ensure your coverage remains sufficient. Installation of this product(s) may void your vehicle warranty. If this is a concern, please check with the manufacturer or dealer before purchase or installation of this product(s).



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