GO RHINO &

INSTALLATION INSTRUCTIONS



PART NO.

- 2043687T/PC
- 2043680T/PC

PRODUCT DESCRIPTION:

Go Rhino E-Board

VEHICLE APPLICATION

- Ram 1500 Crew Cab (New Body Style)
- Ram 1500 Quad Cab (New Body Style)

PRODUCT SAFETY & LEGAL DISCLAIMER

- IMPORTANT READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING, FAILURE TO DO SO MAY CAUSE PERSONAL INJURY OR DAMAGE TO PRODUCT AND/OR PROPERTY.
- Review the product package and contents prior to beginning the installation. Take care when opening the packaging and removing items. If a return is needed you will want to return the product in its original packaging if possible.
- This instruction guide is provided as a GENERAL installation guide, some vehicles vary dimensionally and may require additional steps.
- Test fit the product on the vehicle prior to any third party modifications and or finishing. The manufacturer and/or distributors do not accept responsibility for third party charges, labor and or third part replacement modifications. Some modifications may void the factory warranty.
- Exercise due-diligence when installing this product. The manufacturer and distributors of this product do not accept any responsibility for vehicle damage or personal injury resulting from the installation of this product. Careless installation and operation can result in serious injury or equipment damage.
- This product is for general off-road use. All liability for installation and use rests with the owner/operator.
- INSTALLER: Once installation is complete, please return this guide along with other documentation
 included in this product back to the consumer for future reference. The manufacturer/distributors of
 this product do not guarantee this particular version will be available at a later date.

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INJURY HAZARD

Please complete a shop and tool inspection prior to beginning the installation.

- Always make sure you have a clean, dry and well lit work area.
- Always remove jewelry, loose fitting clothing and wear protective gloves and eye protection.
- Always use extreme caution when jacking or raising a vehicle for work. Set the emergency brake and use tire/wheel blocks and jack stands. Refer to the vehicle manufacturer hand book. Utilize the vehicle manufacturers designated lifting points.
- Always use appropriate and adequate care in lifting parts during disassembly and installation. Seek help in lifting heavy or large items into place. Utilize jacks and or lifting devices when available.
- Always insure products are secure during disassembly and installation.
- Always wear eye protection and take steps to protect any exposed skin during the installations. Drilling, cutting and grinding plastic and metal may create flying particles that can cause injury.
- Always use extreme caution when drilling, cutting and or grinding on a vehicle. Thoroughly
 inspect the area to be drilled, on both sides of material, prior to modification and relocate any
 objects that may become damaged.
- Always assemble and tighten all fasteners per the installation instructions.
- Always route electrical cables carefully. Avoid moving parts, parts that may become hot and rough or sharp edges.
- Always insulate and protect all exposed wiring and electrical connections.

MAINTENANCE AND CARE

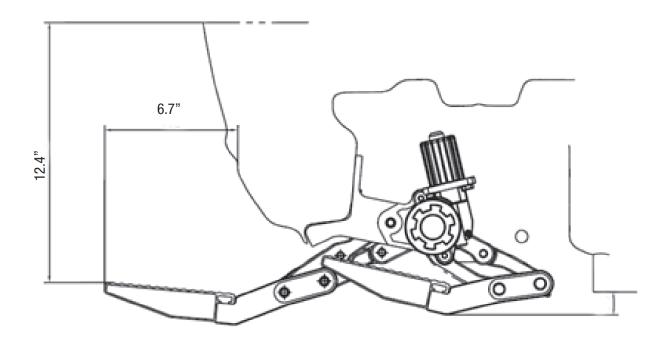
- Always perform regular inspections and maintenance on mounts and related fasteners.
- Periodically check and tighten all fasteners.
- Stripped, fractured, or bent fasteners must be replaced.
- After washing the vehicle make sure to fully dry all surfaces.
- In areas with cold temperatures make sure to wash the product often to remove harmful materials used on road ways.
- Never use abrasive cleaners or polish compounds. Clean with a gentle soap and water. If you use wax use a non-abrasive automotive wax such as pure carnauba wax.

WARNING

Some products have been designed to work together with factory rear sensor systems, factory forward facing sensor systems and factory air bags.

- Installation of some of these products may alter the factory sensor system performance.
- Factory sensors may read shackles or hooks protruding from the fairlead and or tow hooks.
- All sensor testing is completed by Go Rhino Products and or third party testing labs on modified vehicles.
- Sensor sensitivity, factory sensor housing, orientation, and operating conditions are all variables that will influence functionality of the sensors.
- Installation of some product may effect the factory air bag systems.
- Some products allow the use of third party products such as winches, shackles, hooks, etc. Follow the respective manufacturers operating instructions for use with our products.
- Make sure to fully understand the product, it's intended use and operation prior to use.
- Above all... be safe!





PRODUCT TECHNICAL SPECIFICATIONS

Rated Voltage: 12V

Load Rating: 600 lbs. per side

Gross Weight: 55 lbs.

- Horizontal Extension: 6.7" (Horizontal distance between the edge of power board and the vehicle door when the board extends)
- Step Height: 12.4" (Vertical height difference between the edge of power board and the vehicle door while board extending.)

WARNING: Keep a minimum of 10" safe distance while the Go Rhino E-Board is operating to avoid any personal injury or damage to the running boards. Go Rhino E-Boards are not designed to provide vehicle body protection. Components can be damaged by hard impact or contact with foreign objects.



PARTS INCLUDED IN THIS LIST:

ITEM	QTY	DESCRIPTION
A	2	BOARD
В	1	DRIVER FRONT MOTOR
С	1	DRIVER REAR MOTOR
D	1	PASSENGER FRONT MOTOR
Е	1	PASSENGER REAR MOTOR
F	2	CENTER LINKAGE
G	1	CONTROL MODULE
Н	1	HARNESS
- 1	2	WIRED MAGNETIC INDUCTION MODULE
J	4	DOOR MAGNET
K	4	LED LAMP
L	2	FUSE
M	1	E-BOARD MANUAL SWITCH
N	14	M8 HEX NUT
0	14	FLAT WASHER
Р	14	SPRING WASHER
Q	8	SOCKET CAP SCREW
R	25	ZIP TIES

Go Rhino recommends you, the installer, read this installation instruction manual from front to back before installing the product. You may also <u>click here</u> to view an installation video or visit http://www.gorhino.com/Installation-Videos.

TOOLS NEEDED FOR INSTALLATION:

- 5MM HEX KEY WRENCH (ALLEN WRENCH)
- 13MM SOCKET/ WRENCH
- PRY TOOL

- WIRE STRIPPER
- ELECTRICAL TAPE
- 50/50 MIX OF ISOPROPYL ALCOHOL AND WATER

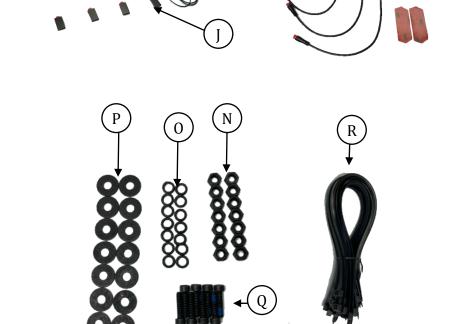
ESTIMATED TIME FOR INSTALLATION:

3-5 Hours

If you need installation service for your new product, call the authorized distributor from whom you purchased the product or an authorized installation service company which can be found by calling toll free 1-888-427-4466

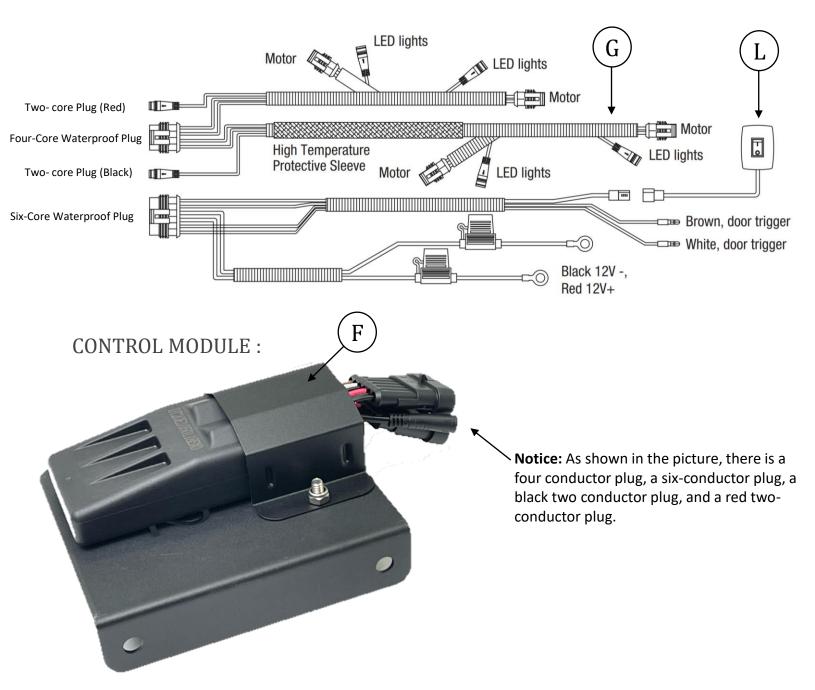






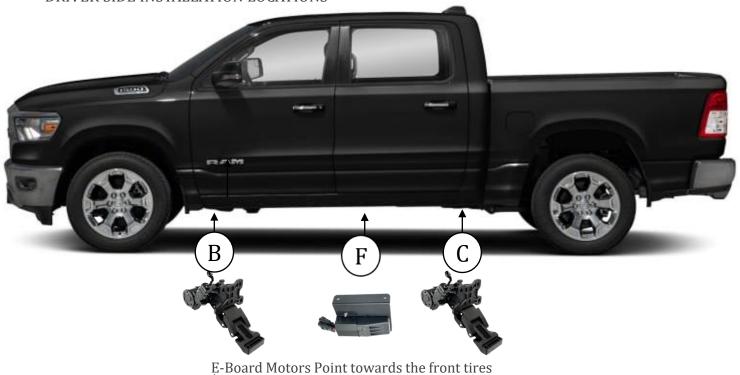


HARNESS LEADS:





DRIVER SIDE INSTALLATION LOCATIONS



Step 1: Disconnect the battery. Begin with the negative battery terminal, followed by the positive terminal.

Step 2: On the Driver side, inspect the motor and controller mounting threaded studs. If the studs have a heavy paint buildup from the factory, clean the threads with a screw thread cutting die.

Step 3: Install the rear Driver side motor using (3) M8 hex nuts, (3) spring washers, (3) flat washers to fasten the motor to the truck. The hardware should be hand tightened only until snug. This will allow the motor assembly to move and align easier when installing the running board.

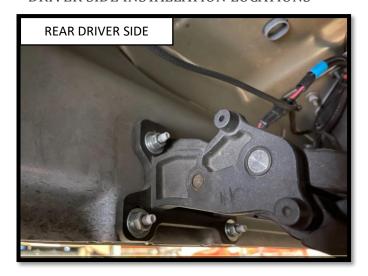
Step 4: Install the front Driver side motor using (3) M8 hex nuts, (3) spring washers, (3) flat washers to fasten the motor to the truck. The hardware should be hand tightened only until snug. This will allow the motor assembly to move and align easier when installing the running board.



Note: Each motor is etched to call out what position it is installed in.



DRIVER SIDE INSTALLATION LOCATIONS



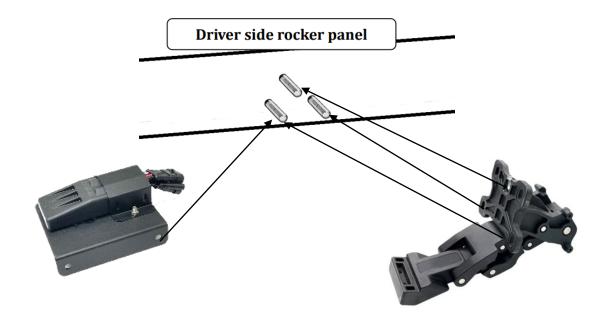
Step 5: Install the rear Driver side motor using (3) M8 hex nuts, (3) spring washers, (3) flat washers to fasten the motor to the truck. The hardware should be hand tightened only until snug. This will allow the motor assembly to move and align easier when installing the running board.



Step 6: Install the front Driver side motor using (3) M8 hex nuts, (3) spring washers, (3) flat washers to fasten the motor to the truck. The hardware should be hand tightened only until snug. This will allow the motor assembly to move and align easier when installing the running board.



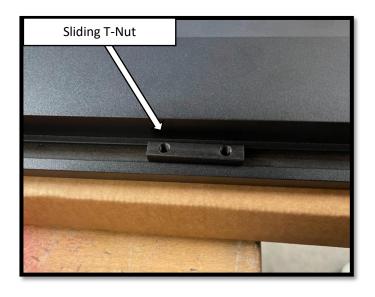
DRIVER SIDE INSTALLATION LOCATIONS



Step 6: Install the center linkage bracket using (3) M8 hex nuts, (3) spring washers, (3) flat washers to fasten the motor to the truck. The hardware should be hand tightened only until snug. This will allow the motor assembly to move and align easier when installing the running board. You will need to sandwich the control module on one of the lower exposed studs to secure it against the center linkage bracket.



DRIVER SIDE INSTALLATION LOCATIONS



Step 8: Install the Driver side running board. With assistance, begin by positioning the board on the front and rear motor assembly bases. Align the sliding T-Nut on the running board with the slots on the front and rear motor base. Once the T-Nuts are aligned, rotate the running board so that the T-Nuts set in the slots on the base of the arms. Repeat Steps 3-6 to install the motor linkage assemblies and running board on the Passenger side.



Step 9: Determine where you want to position the board and secure the running board to the arms using the (2 per bracket) M6x25 socket head cap screws. Using a torque wrench, tighten to 9 ft-lbs. Step # With the running board is installed, fasten the hardware on the Driver side front and rear motor assemblies. Using a torque wrench, tighten the mounting hardware to 18 ft-lbs.



PASSENGER SIDE INSTALLATION LOCATIONS

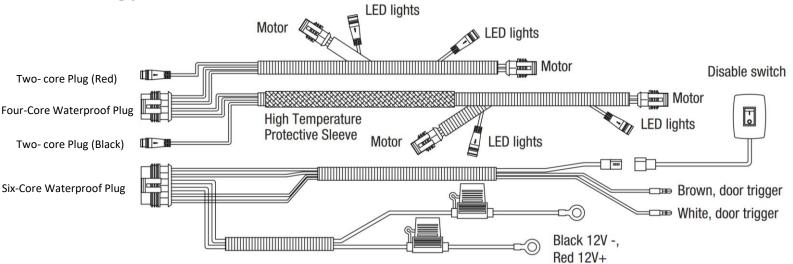


E-Board Motors Point towards the front tires

Step 10: Repeat Steps 2-6 to install the motor linkage assemblies. Repeat steps 8-9 to install running board on the Passenger side.

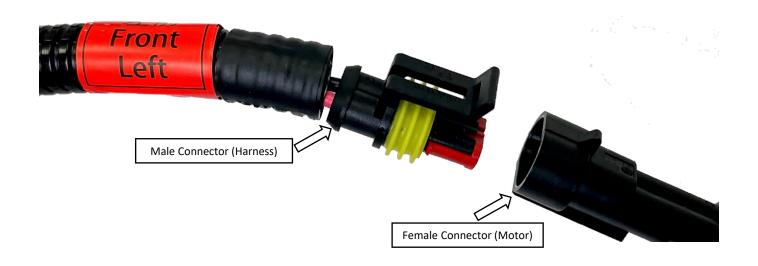


Wiring your E-Boards



Step 11: Route the electrical harness from the controller along the frame rail of the truck. Connect the male plug connector on the wire harness into the female socket on the motors. The harness is labeled to show where to plug each male connector to the female connector. For example, Front Left is for the front Driver side motor and Rear Left for the rear Driver side motor. Use supplied zipties to secure harness to the frame rail.

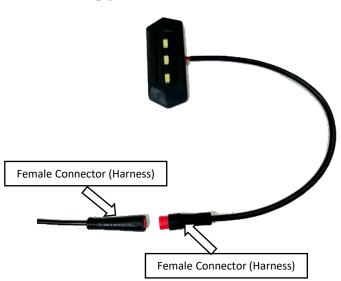
Step 12: Connect the male plug connector on the wire harness into the female socket on the motors. The harness is labeled Front Right for the front Passenger side motor and Rear Right for the rear Passenger side motor



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Wiring your E-Boards





Step 12: Align the arrows on the small round connectors and plug the Driver side front and Driver side rear LED lights. Prepare the surface by cleaning with a 50/50 mix of isopropyl alcohol and water or equivalent. Once the surface is completely dry, peel the backing from the double-sided tape and stick the LEDs to the bottom side of the rocker panel. Stick the LED lights at the center of the front and rear Driver side doors



Step 13: Route the motor and LED wire harness from the controller to the Passenger side frame rail of the vehicle. When routing the harness keep clear from any moving parts and avoid direct contact with the exhaust system.

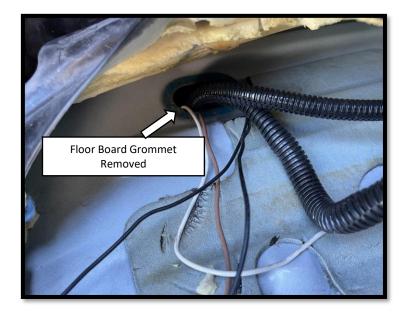


Wiring your E-Boards

Step 14: On the Driver side, remove the front kick panel, front door sill trim, b-pillar trim panel and pull the front driver side carpet back and foam pad. Locate the plastic grommet on the driver side floorboard. Feed the door trigger signal wires (white and brown) and the disable switch wires (two black wires) into the cab. To feed the harness through the grommet, you can pull back the front driver side fender liner to expose the grommet opening.





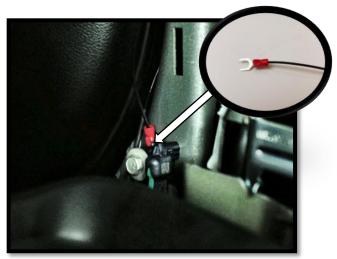




Wiring your E-Boards

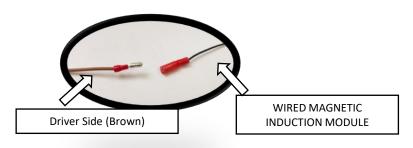


Step 15: Route the Driver side door trigger wire (brown) towards the Driver side b-pillar. Route the Passenger side door trigger wire (white) under the center console and over to the Passenger side b-pillar. Route the black disable switch wires to the center console.



Step 16: The door trigger sensor harness will need a ground connection to the vehicle. Locate the hex head screw near the seatbelt assembly and install the ground under the plastic housing as shown.

Connect the snap-in bullet connector to the brown wire on the Driver side b-pillar

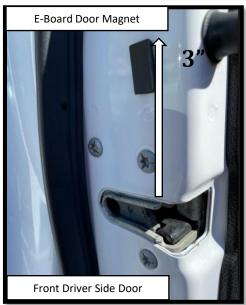




Wiring your E-Boards



Step 17: FRONT DOOR: With the weatherstrip peeled back, route the sensor wire underneath it. Clean the surface by cleaning with a 50/50 mix of isopropyl alcohol and water or equivalent. Once the surface is completely dry, peel the backing from the double-sided tape and stick the sensor on the door jamb. Align the top of the sensor with the 2"



Step 18: With the front driver side sensor attached, you can determine the correct position for the door magnet. peel the backing from the double-sided tape and stick the magnet on the door. Align the bottom of the magnet with the 3"



Wiring your E-Boards

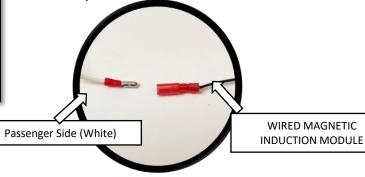


Step 19: REAR DOOR: With the weatherstrip peeled back, route the sensor wire underneath it. Clean the surface by cleaning with a 50/50 mix of isopropyl alcohol and water or equivalent. Once the surface is completely dry, peel the backing from the double-sided tape and stick the sensor on the door jamb. Align the top of the sensor with the 4 1/8"



Step 20: With the rear driver side sensor attached, you can determine the correct position for the door magnet. peel the backing from the double-sided tape and stick the magnet on the door. Align the bottom of the magnet with the 4 1/2"

Step 21: Repeat steps 16-20 to install the Passenger side door trigger sensors and magnets. The Passenger side door trigger harness is connected to the white wire that was routed under the carpet to the Passenger side b-pillar in Step 16



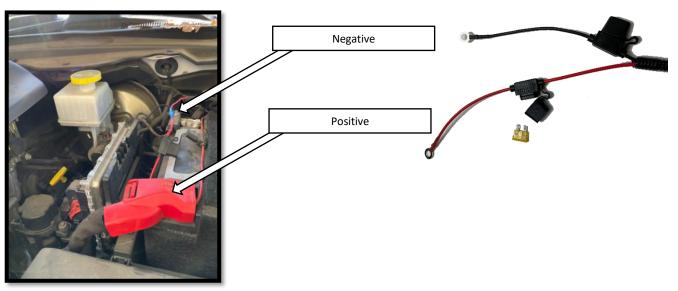


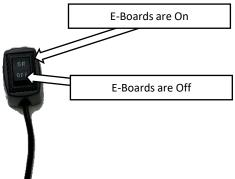
Wiring your E-Boards



Step 22: Locate the black wires for the disable switch and feed them to your desired mount location. Prepare the surface by cleaning with a 50/50 mix of isopropyl alcohol and water or equivalent. Once the surface is dry, peel the backing from the double-sided tape and stick the disable switch on the lower dash panel. Plug the disable switch connector into the black wire harness and tuck the extra wire behind the lower dash panel.

Step 23: Remove the 20 Amp fuses from the main positive and negative 12V power leads on the main harness. Route the power wires over the wheel well and into the engine compartment. Connect the ring terminals to the battery positive and negative terminals. Install the 20 Amp fuses back into the main negative and positive power lead fuse holders. Connect the battery terminals. Begin with the positive terminal followed by the negative terminal.





Step 24: Open the Driver side door and keep the door open. Flip the disable switch to the Off position. This will signal the running boards to retract to the stowed position and it will disable any further operation until the switch is flipped to the On position.



LIMITED WARRANTY

Go Rhino warrants to Buyer that for a period of five (5) years from the date of shipment of the product(s) ("Warranty Period") for black finishes and chrome finishes, that such products will materially conform to the specifications set forth in Go Rhino's specifications in effect as of the date of shipment(s) and will be free from material defects in material workmanship.

Go Rhino warrants to Buyer that for the life of the product(s) from the date of shipment of the product(s) ("Warranty Period") for polished stainless steel finished products purchased after April 2004, that such products will materially conform to the specifications set forth in Go Rhino's specifications in effect as of the date of shipments and will be free from material defects in material workmanship.

Warranty claims must be accompanied with the original invoice and photos of the product. It is the customer's responsibility to clean regularly and protect finish with regular applications of a nonabrasive polish that is compatible with the product's finish.

This warranty covers the cost of the product only and does not include the cost of removal, installation, third party modifications or shipping of the product. In no event shall Go Rhino be liable to buyer or any third party for any damage or harm caused by the product or use thereof, regardless of weather such damages were foreseeable and whether or not Go Rhino has been advised of the possibility of such damages, not withstanding the failure of any agreed or other remedy of its essential purpose. This warranty is void if the product shows signs of alteration, misuse, mishandling, improper care, neglect, improper application and/or damage due to improper installation.

With respect to any such product(s) during the limited warranty period, Go Rhino shall, in its sole discretion, either: (i) provide a one-time repair or replacement of such products (or the defective part) or (ii) credit or refund the price of such products at the pro rata contract rate provided that, if Go Rhino so requests, Buyer shall, at Go Rhino's expense, return such product(s) to Go Rhino. The remedies shall be the Buyer's sole and exclusive remedy and Go Rhino's entire liability for any breach of the limited warrant (ies).

Go Rhino disclaims all other warranties except to the extent that any such warranty cannot be validly disclaimed under applicable law.

Finish Limited Warranty:

Limited lifetime on stainless steel products (after April 2004) 5 year warranty on black powder coat products 5 year warranty on chrome products
This warranty does not cover exposed welds

Finish warranty covers peeling, flaking, or cracking. Washing all finishes regularly with car wash soap and rinsing well with water is the best method for maintaining the finish on your products. You must also protect the finish with nonabrasive automotive wax on a regular basis. The use of any compound which contains abrasives becomes a self-defeating exercise as the compound scratches the finish and opens it to corrosion. The use of harsh chemicals used to remove bugs and tar may also cause the finish to fail and should be avoided.

If you are unsatisfied with your purchase please contact the establishment you purchased the product from.

If you need to place a warranty claim or need assistance, the Go Rhino customer service team will answer any questions you may have. Please contact the Go Rhino customer service team at 1-888-427-4466 during normal business hours Monday thru Friday 7 am to 5 pm PST. You may also email warranty@gorhino.com. In order to better serve you please provide a copy of the original invoice / receipt, a photo of the issue you are experiencing and a photo of the vehicle the product is installed on.

All warranty returns must have an approved RGA number. The RGA number must be clearly marked on the exterior of the return package. All approved warranty returns must be shipped to Go Rhino Products, 1002 Carriers Drive, Laredo, Texas 78045.

PRODUCT REGISTRATION

Please remember to register your new purchase. You may register your product at www.gorhino.com. Registering your product may help speed any future warranty or customer service inquiries.

Thank you again for purchasing from Go Rhino Products

Please take a few minutes to view additional products for your vehicle and more at GORHINO.com These installation instructions are available on the Go Rhino web site along with installation videos for many of our products.

www.gorhino.com

www.bigcountryauto.com

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