



**Assembly, Installation, Operation and
Maintenance Instructions
Extreme Grille Guard**

**Part Number:
E0521T**

60 - 180 minutes

Dealer / Installer: Provide a copy of these instructions to the end user of this product. These instructions provide important operating and safety information for proper usage of this product. Demonstrate the proper use of the product with the end user. Have the end user demonstrate that they understand the proper use of the product.

End User: Read and follow all instructions included in this manual. Ask your Dealer / Installer for assistance if you do not understand the proper use of the product. Never remove any decals from the product. Failure to follow these instructions can result in injury or death.

⚠ WARNING ⚠

APPLICATION: 2019-Current

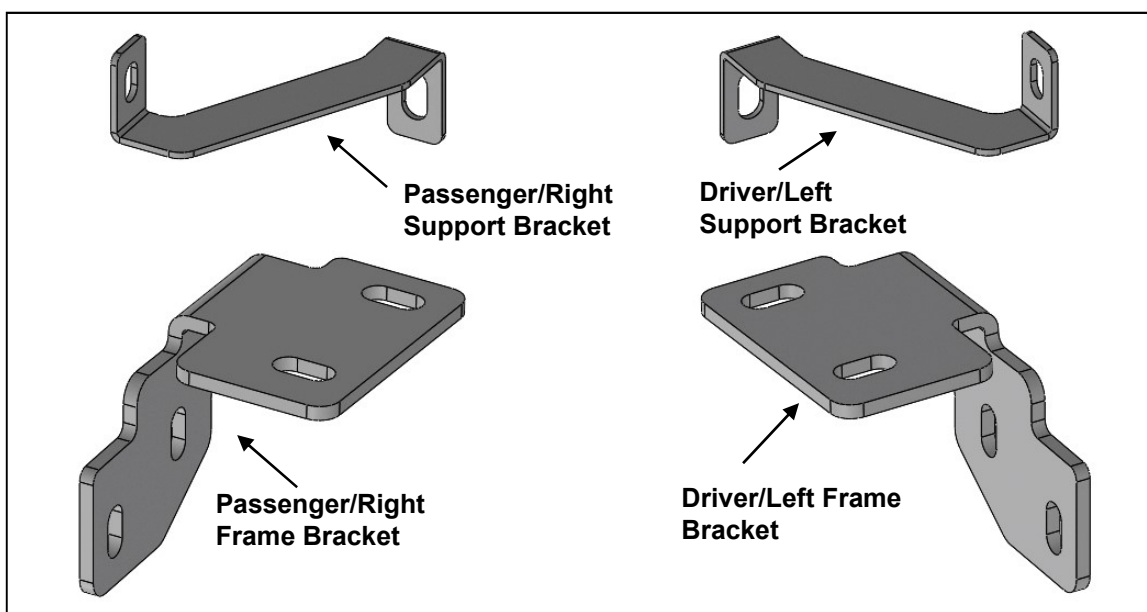
FORD RANGER

PARTS LIST

Qty	Part Description	Qty	Part Description
1	Extreme HD Grille Guard	4	12mm x 44mm x 4mm Large Flat Washers
1	Driver/Left Frame Mounting Bracket	4	10-1.5mm x 35mm Hex Bolts
1	Passenger/Right Frame Mounting Bracket	8	10mm x 27mm x 3mm Flat Washers
1	Driver/Left Support Bracket	4	10-1.5mm Nylon Lock Nuts
1	Passenger/Right Support Bracket	2	8-1.25mm x 25mm Hex Bolts
4	12-1.75mm x 45mm Hex Bolts	4	8mm x 16mm x 1.6 mm Flat Washers
4	12mm Lock Washers	2	8mm Nylon Lock Nuts

TORQUE SPECIFICATION

Size	Torque	Size	Torque
12 MM	70 ft/lbs	8 mm	20 ft/lbs
10 MM	34.5 ft/lbs		



INSTALLATION PROCEDURE:

REMOVE CONTENTS FROM BOX AND VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY. CUTTING MAY BE REQUIRED. ASSISTANCE IS RECOMMENDED. INSTALLATION MAY INTERFERE WITH FRONT MOUNTED SENSORS.

1. Start installation under the front of the vehicle.
2. Determine if the vehicle is equipped with tow hooks, (Figure 1).

Tow Hook equipped vehicles:

- a) Remove the plastic cover attached to the tow hook, (Figure 1). Next, remove the tow hook from the bottom of the frame, (Figures 2—4). On models with steel skid plate, temporarily remove skid plate, (Figure 3).
- b) Proceed to Step 3.

Vehicles without tow hooks:

- a) Cut out the lower section of the indented area in both sides of the plastic bumper to clear the Brackets as pictured, (Figure 5). NOTE: Hold the Frame Mounting Bracket up to the back of the bumper to determine area to remove to clear Bracket. IMPORTANT: Make several small cuts for best fit.
 - b) Insert the Mounting Brackets through the openings in the bumper to check for clearance around Brackets and hardware. Trim the plastic as required to clear the Brackets.
3. Select the Driver/Left Frame Mounting Bracket. Hold the Bracket up to the bottom of the frame. Line up the holes in the Bracket with the (2) mounting bolt holes for the tow hook, (Figure 6).

Models without tow hooks:

- a) Attach the Bracket to the threaded holes in the frame with (2) 12mm x 45mm Hex Bolts, (2) 12mm Lock Washers and (2) 12mm Flat Washers, (Figure 6).
- b) Repeat to attach the Passenger/Right Frame Bracket.

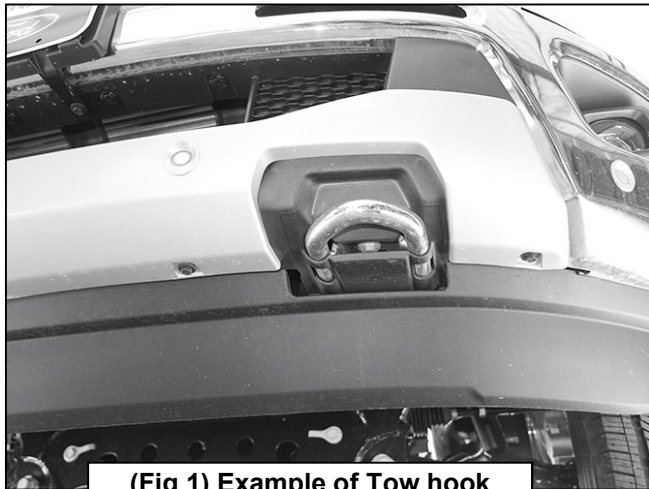
Models with tow hooks:

- a) Install the Bracket between the tow hook and the bottom of the frame, (Figure 7).
 - b) Attach the Bracket and tow hook to the threaded holes in the frame with (2) 12mm x 45mm Hex Bolts, (2) 12mm Lock Washers and (2) 12mm Flat Washers, (Figures 6 & 7). Leave hardware loose.
 - c) Repeat previous Steps to attach the Passenger/Right Frame Bracket and tow hook.
4. Next, from behind/below the Driver/Left side of the front bumper, locate and remove the top bumper bracket bolt, (Figures 8 & 9). Apply removable tape (masking tape for example) to the top of the bumper in line with the factory bumper bolt, (Figures 10 & 12).
 5. Select the Driver/Left Support Bracket. Carefully slide the inner end of the Bracket through the gap between the lower bumper and upper plastic fascia panel. Reuse the factory bumper bolt to attach the Support Bracket to the back of the bumper bracket, (Figures 10—12).
 6. Repeat Steps 4 & 5 to install the Passenger/Right Support Bracket.
 7. With assistance, hold the Grille Guard up in position on the outside of the Mounting Brackets. Attach the Grille Guard to the Frame Mounting Brackets with the included (4) 10mm x 35mm Hex Bolts, (8) 10mm Flat Washers and (4) 10mm Nylon Lock Nuts, (Figures 13 & 14). Do not tighten hardware at this time.
 8. Attach the Grille Guard to the Support Brackets with (2) 8mm x 25mm Hex Bolts, (4) 8mm Flat Washers and (2) 8mm Nylon Lock Nuts, (Figure 15).
 9. Check the Grille Guard for alignment with the vehicle and for clearance between the Grille Guard and the bumper. Adjust as required then fully tighten all hardware.
 10. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

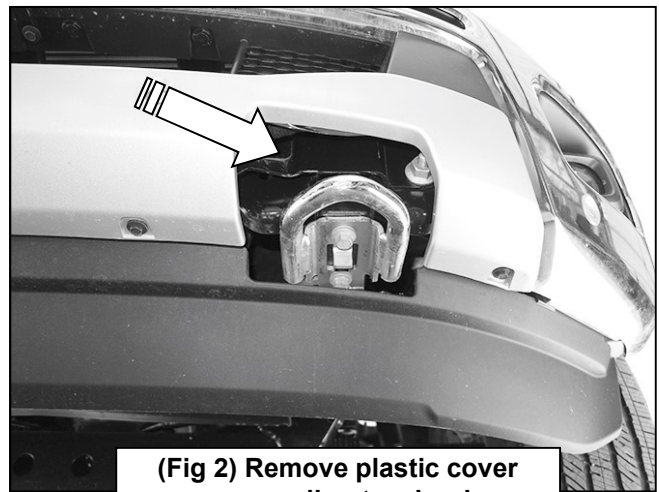
To protect your investment, wax this product after installing. Regular waxing is recommended to add a protective layer over the finish. Do not use any type of polish or wax that may contain abrasives that could damage the finish. Mild soap may be used to clean the Grille Guard.

INSTALLATION IMAGES:

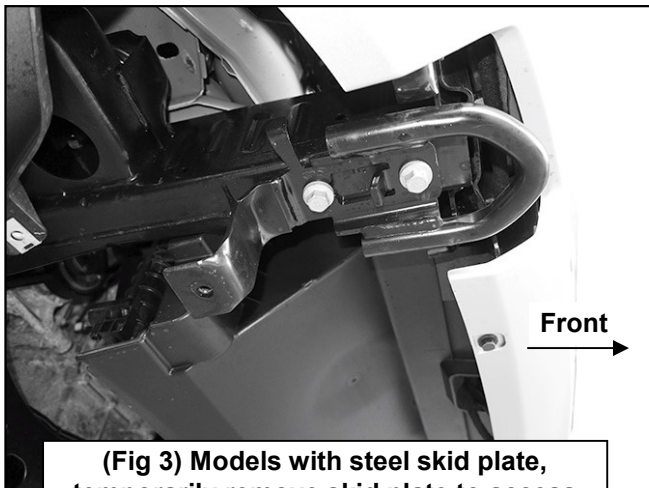
Driver/Left Side Installation Pictured



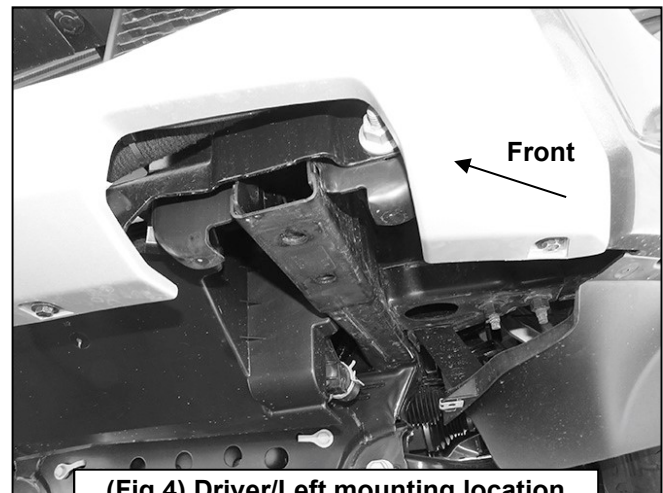
(Fig 1) Example of Tow hook



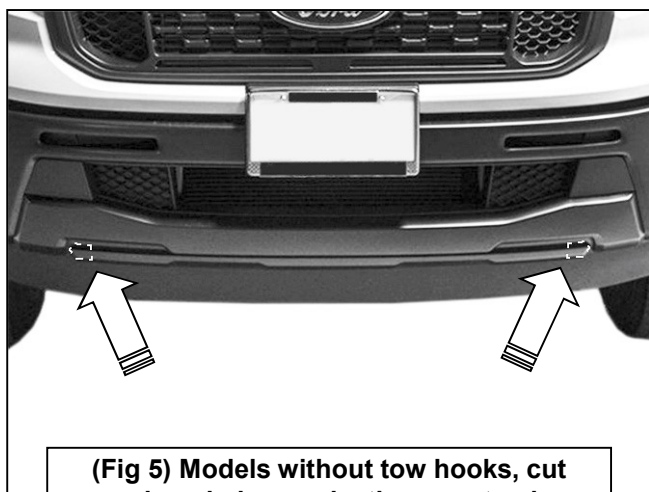
(Fig 2) Remove plastic cover surrounding tow hook



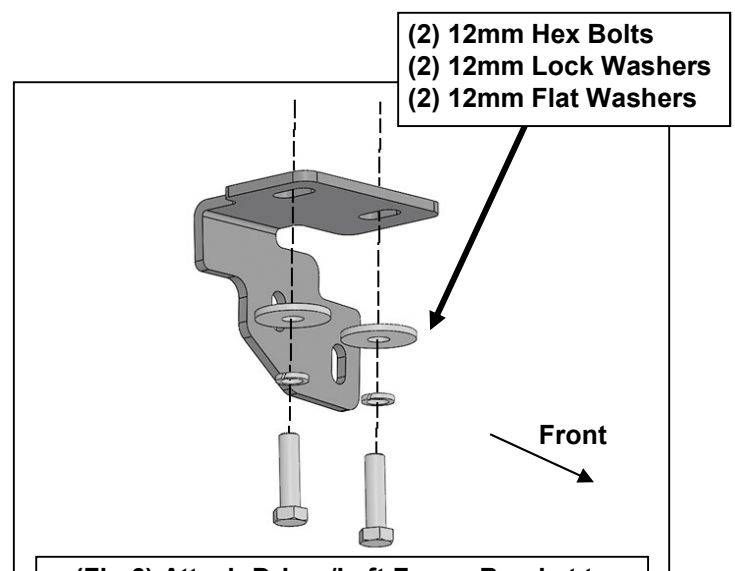
(Fig 3) Models with steel skid plate, temporarily remove skid plate to access tow hooks (Passenger/Right side pictured)



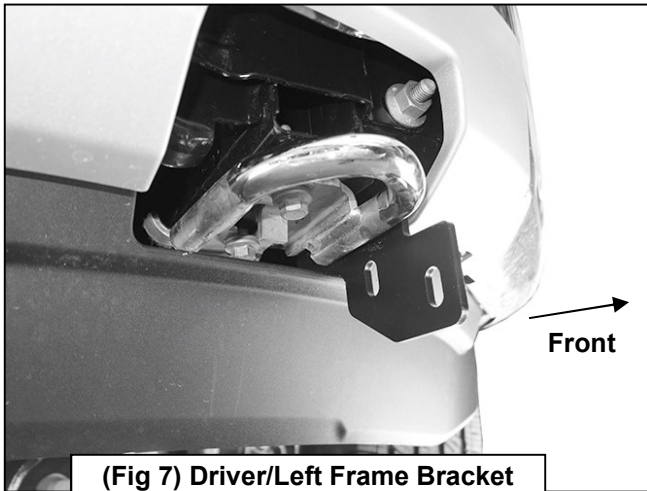
(Fig 4) Driver/Left mounting location



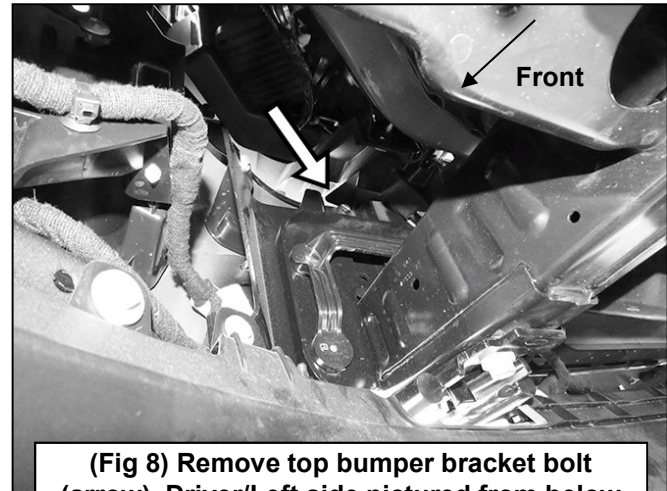
(Fig 5) Models without tow hooks, cut openings in lower plastic cover to clear Brackets



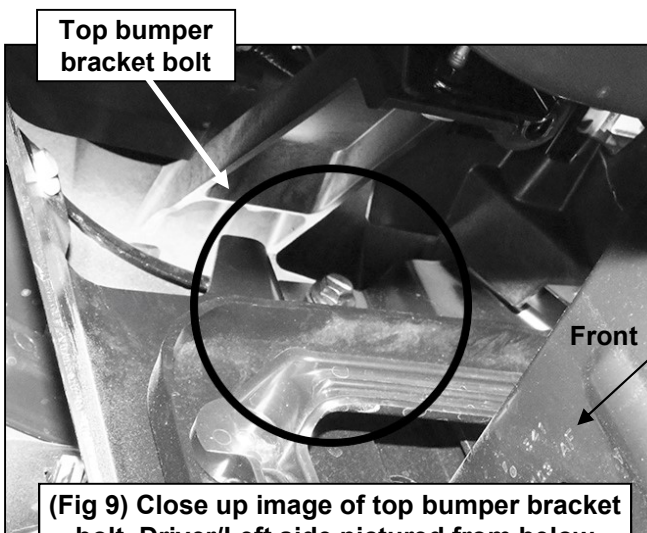
(Fig 6) Attach Driver/Left Frame Bracket to bottom of frame. Models with tow hooks, install Bracket between tow hook and frame



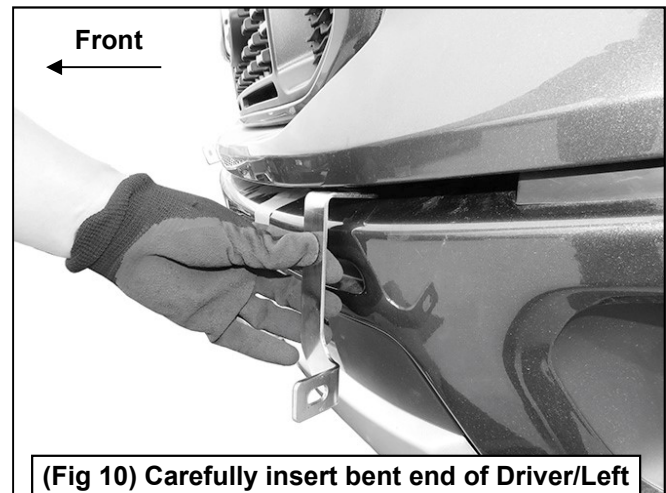
(Fig 7) Driver/Left Frame Bracket attached with tow hook



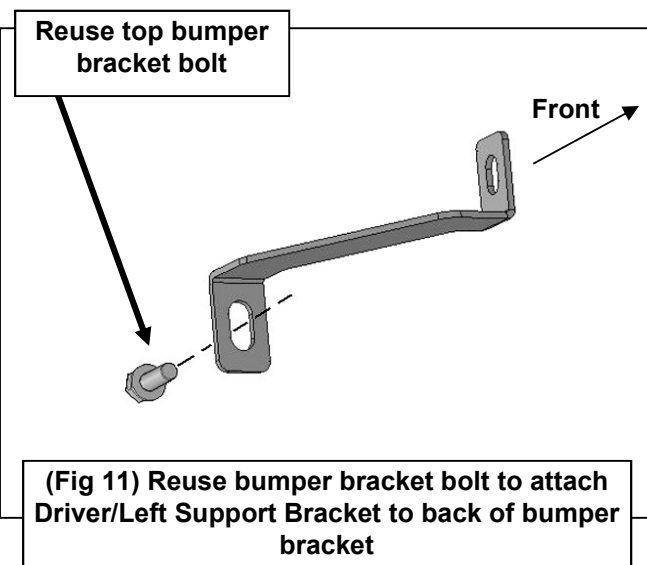
(Fig 8) Remove top bumper bracket bolt (arrow). Driver/Left side pictured from below and behind bumper (also see Fig 9)



(Fig 9) Close up image of top bumper bracket bolt. Driver/Left side pictured from below and behind bumper (also see Fig 8)



(Fig 10) Carefully insert bent end of Driver/Left Support Bracket through gap between lower bumper and upper plastic fascia panel. Use removable tape to protect finish on bumper

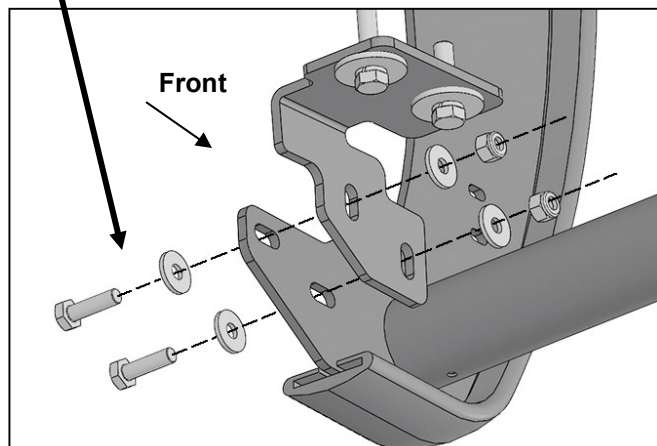


(Fig 11) Reuse bumper bracket bolt to attach Driver/Left Support Bracket to back of bumper bracket



(Fig 12) Support Brackets attached

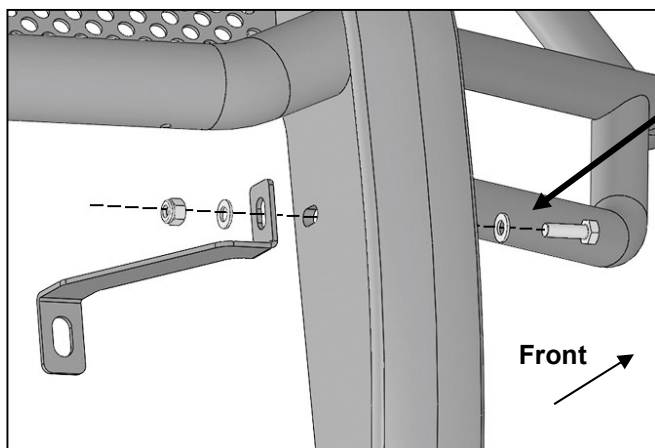
- (2) 10mm Hex Bolts
- (4) 10mm Flat Washers
- (2) 10mm Nylon Lock Nuts



(Fig 13) Attach Grille Guard to outside of Driver/Left Frame Bracket



(Fig 14) Driver/Left side of Grille Guard attached to Frame Bracket



(Fig 15) Driver/Left side of Grille Guard attached to Support Bracket

- 8mm Hex Bolt
- (2) 8mm Flat Washers
- 8mm Nylon Lock Nut



PRODUCT CARE

- Periodically check the product to ensure all fasteners are tight and components are intact.
- Regular waxing is recommended to protect the finish of the product.
- Use ONLY Non-Abrasive automotive wax. Use of any soap, polish or wax that contains an abrasive is detrimental and can scratch the finish leading to corrosion.
- Mild soap may be used to clean the product.

FAQ's

1. Hardware and mounting brackets are not aligning properly

Ensure that hardware is being used on the correct side of vehicle. In some cases, the hardware may appear the same for driver and passenger side but may alter the alignment of mounting location. Check mounting brackets for both sides.

2. Products are thumping / rattling after Installation

Ensure that all required mounting brackets / hardware's are installed & tightened correctly.

Suggest using white Lithium / regular grease between metal-to-metal contact.

3. Missing / Excess Hardware

Recheck hardware count as per the part list.

4. Product not installing properly

Ensure the Year / Make / Model as well as cab and bed dimensions are correct for the application. Review all steps for installation to ensure they were followed correctly.

5. Who should be contacted for questions regarding product / installation assistance?

www.trailfx.com / support@trailfx.com or 1-(866) 638-4870

Warranty Terms:

3 Year Limited Warranty:

TrailFX and Keystone Automotive Operations Inc. make no guarantees or warranties for products not manufactured by Keystone Automotive Operations Inc. Such products are covered solely under any applicable warranty of the manufacturer. It is always recommended that the operating instructions and warranty instructions provided by the manufacturer are followed.

Keystone Automotive Operations Inc. warrants its products to be free from manufacturing and material defects to the original purchaser for the length of warranty stated above from the date of retail purchase. If any products are found to have a manufacturing or material defect, the product will be replaced or repaired at the option of TrailFX and Keystone Automotive Operations Inc. with proof of purchase by the original purchaser. The original purchaser shall pay all transportation and shipping costs associated with the return of the defective product and the defective product shall become the property of Keystone Automotive Operations Inc.

The Warranty applies to Keystone Automotive Operations Inc. products used for individual and recreational purposes. Commercial usage of the Keystone Automotive Operations Inc. products limits the warranty to 90-days from date of purchase.

The Warranty applies only to Keystone Automotive Operations Inc. products which are found to be defective in manufacturing or material. This warranty does not apply to normal wear and tear of the finish placed on Keystone Automotive Operations Inc. products.

TrailFX and Keystone Automotive Operations Inc. are not responsible for any labor costs incurred for removal or replacement of the defective product.

TrailFX and Keystone Automotive Operations Inc. are not responsible for repair or replacement of any product under the limited warranty where the product was improperly installed, misapplied, altered, abused, neglected, overloaded, misused or damaged as a result of an accident, including any use of the product not in accordance with all product operating and safety instructions.

Without limiting the generality of the foregoing, TrailFX and Keystone Automotive Operations Inc. shall under no circumstances be liable for any incidental or consequential loss or damage whatsoever arising out of, or in any way relating to any such breach of warranty or claimed defect in, or non-performance of the products. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you.

This limited warranty gives you specific legal rights, and you may also have other rights that vary from state to state.