



**Assembly, Installation, Operation and
Maintenance Instructions
3.5" Oval Bull Bar**

**Part Number:
B1613S/T**

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:

2018-Current WRANGLER JL (Incl. 2020-22 diesel engine & Excl. plug-in hybrid models, 21-22 V8 engine, 4XE hybrid engine and trims with Fox Hydraulic Jounce Bumpers and upgraded 2.5in FOX Internal Bypass shocks with external reservoir)

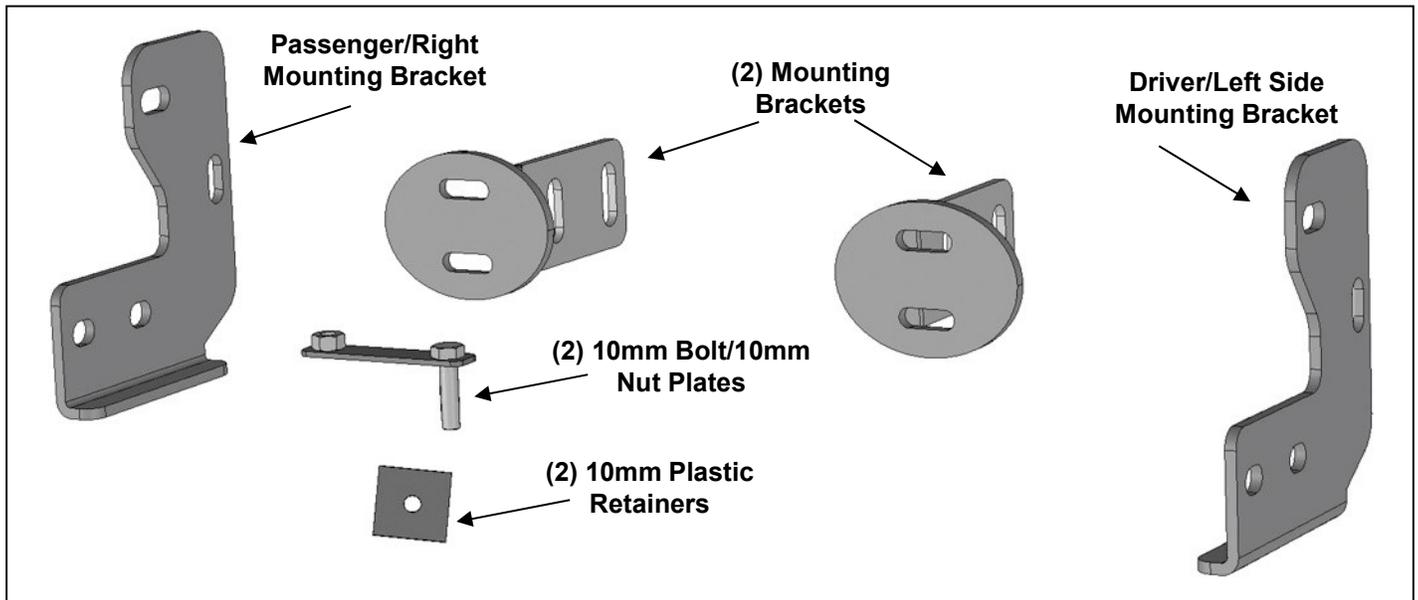
2020-Current GLADIATOR (Excl. Mojave trim and trims with Fox Hydraulic Jounce Bumpers and upgraded 2.5in FOX Internal Bypass shocks with external reservoir)

PARTS LIST

Qty	Part Description	Qty	Part Description
1	3.5in Oval Bull Bar	4	10-1.50mm x 35mm Hex Bolts
2	Mounting Brackets	2	10mm Plastic Retainers
1	Driver/Left Frame Mounting Bracket	4	10mm x 30mm x 2.5mm Flat Washers
1	Passenger/Right Frame Mounting Bracket	4	10mm Lock Washers
1	20" LED Light Bar	2	10-1.50mm Hex Nuts
4	12-1.75mm x 35mm Hex Bolts	4	8-1.25mm x 35mm Hex Bolts
8	12mm x 32mm OD x 3mm Flat Washers	2	8mm x 16mm Hex Bolts
4	12mm Lock Washers	6	8mm Lock Washers
4	12-1.75mm Hex Nuts	6	8mm x 24mm x 2mm Flat Washers
2	10-1.50mm x 40mm Bolt-Nut Plates		

TORQUE SPECIFICATION

Size	Torque	Size	Torque
12 MM	70 ft/lbs	8 mm	20 ft/lbs
10 MM	34.5 ft/lbs	6 MM	102 in/lbs



INSTALLATION PROCEDURE:

REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY. CUTTING IS REQUIRED. ASSISTANCE IS RECOMMENDED.

1. Remove the plastic splash guard from under the front bumper and place it on a clean, stable work surface, (Figures 1 & 6). Models with steel skid plate, skid plate must be removed and cannot be reinstalled.

Models with plastic splash guard:

- a) Starting on the passenger/right side, locate the lower hex shaped hole in the outside of the frame, (Figure 2). Insert (1) 10mm Bolt/Nut Plate, (end with welded nut first), into the open end of the bottom of the frame and push the welded hex bolt through the hex shaped hole, (Figure 3). Thread (1) 10mm Plastic Retainer onto the Bolt/Nut Plate to hold it in position. **NOTE:** Plastic Retainer is designed to hold the Bolt Plate in position to help with Bracket installation. Use is not mandatory. **IMPORTANT:** Temporarily remove the steel frame bracket for the splash guard if more room is necessary to install the Bolt/Nut Plate, (Figure 1).
- b) Select the passenger/right side Frame Mounting Bracket, (Figure 4). Attach the Bracket to the Bolt on the Bolt Nut Plate with (1) 10mm Flat Washer, (1) 10mm Lock Washer and (1) 10mm Hex Nut. Leave loose at this time. Grab the threaded end of the 10mm Bolt/Nut Plate and rotate it until the top end with the welded Nut lines up with the round hole in the outside of the frame and the top mounting hole in the Bracket. Attach the Bracket to the Bolt/Nut Plate with (1) 10mm x 35mm Hex bolt, (1) 10mm Lock Washer and (1) 10mm Flat Washer, (Figures 4 & 5). Snug but do not fully tighten Bracket hardware at this time. Reinstall the steel frame bracket for the splash guard if previously removed.

Models with steel skid plate:

- a) Select the passenger/right side Frame Mounting Bracket. Attach the Bracket to the lower threaded hole in the outside of the frame with (1) 10mm x 35mm Hex bolt, (1) 10mm Lock Washer and (1) 10mm Flat Washer, (Figure 4). Do not tighten.
 - b) Repeat the previous Steps to install the Bolt/Nut Plate into the open end of the frame and up to the top mounting hole, (Figure 3). Attach the top of the Bracket to the Nut end on the Bolt /Nut Plate with (1) 10mm x 35mm Hex bolt, (1) 10mm Lock Washer and (1) 10mm Flat Washer, (Figures 4 & 5). Snug but do not fully tighten Bracket hardware at this time.
2. Repeat the appropriate Step 2 for driver/left side Mounting Bracket installation.
 3. Position the splash guard back up to the vehicle and temporarily attach with the factory hardware. Trace the location of the Mounting Brackets onto the back of the splash guard, (Figure 6). Remove the splash guard and move it to a clean stable work surface. Carefully cut openings in the splash guard to clear the Frame Brackets. **NOTE:** To maintain the integrity of the plastic Splash Guard, remove only material necessary to clear the Brackets. Make small cuts and check the fit often during installation.

4. Reinstall the steel bracket, (if removed-see Fig. 1), and splash guard.
5. Next, select (1) Mounting Bracket, (Figure 7). Attach the Bracket to the end of the tube on the Bull Bar with the included (2) 8mm x 35mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers, (Figures 7 & 8). Do not fully tighten hardware at this time. Repeat this Step to attach the driver/left Tube Mounting Bracket.
6. **Center LED Light Installation, (LED Light Bar NOT Included)**
 - a) Attach the LED Light Bar to the back of the Bull Bar using the included (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm x 24mm Flat Washers, (Figure 9).
7. With assistance, line up the Brackets on the Bull Bar with the outside of the Frame Brackets. Attach the Tube Brackets to the Frame Brackets with the included (4) 10mm x 35mm Hex Bolts, (8) 10mm Flat Washers, (4) 10mm Lock Washers and (4) 10mm Hex Nuts, (Figures 10 & 11). Snug but do not tighten hardware at this time.
8. Level and adjust the Bull Bar and tighten all hardware.
9. Do periodic inspections to the installation to make sure hardware is secure and tight.

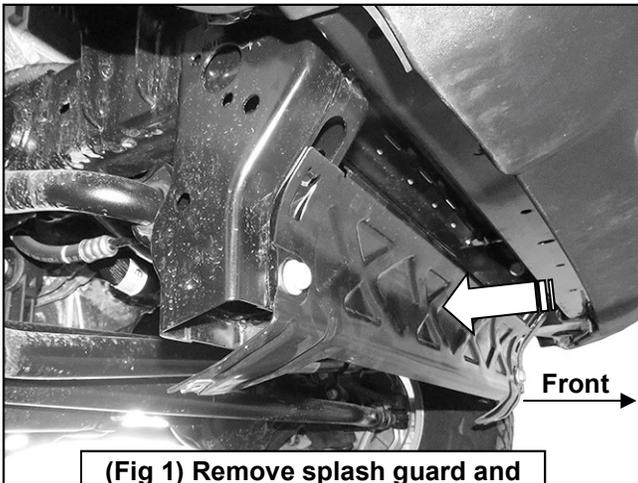
To protect your investment, wax this product after installing. Regular waxing is recommended to add a protective layer over the finish. Do not use any type of polish or wax that may contain abrasives that could damage the finish.

For stainless steel: Aluminum polish may be used to polish small scratches and scuffs on the finish. Mild soap may be used also to clean the Bull Bar.

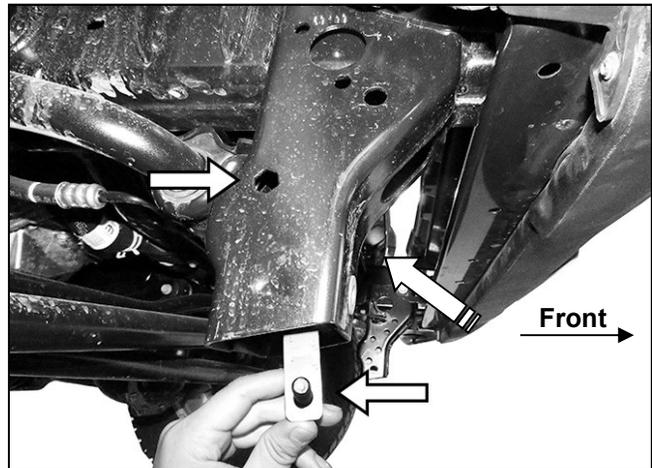
For gloss black finishes: Mild soap may be used to clean the Bull Bar

INSTALLATION IMAGES:

Passenger/right Side Installation Pictured



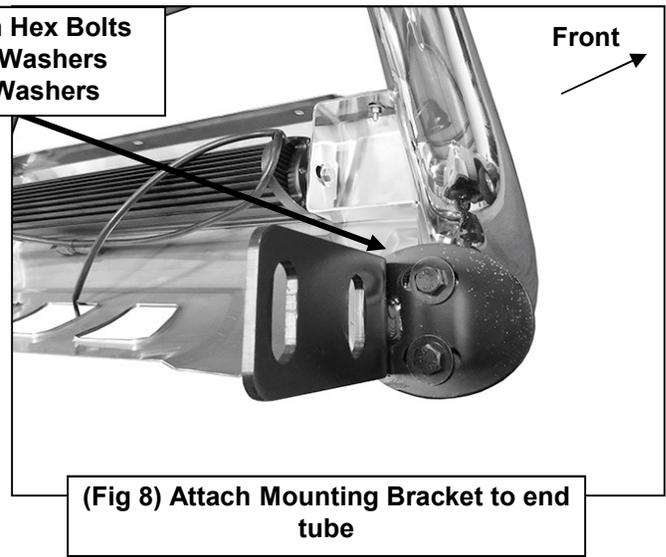
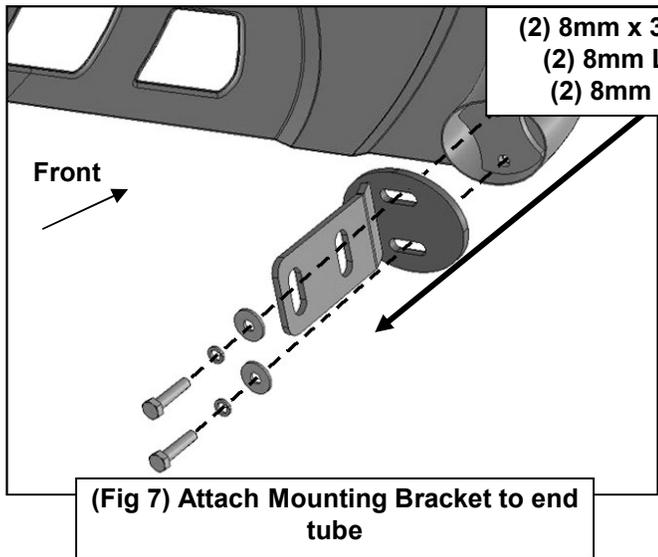
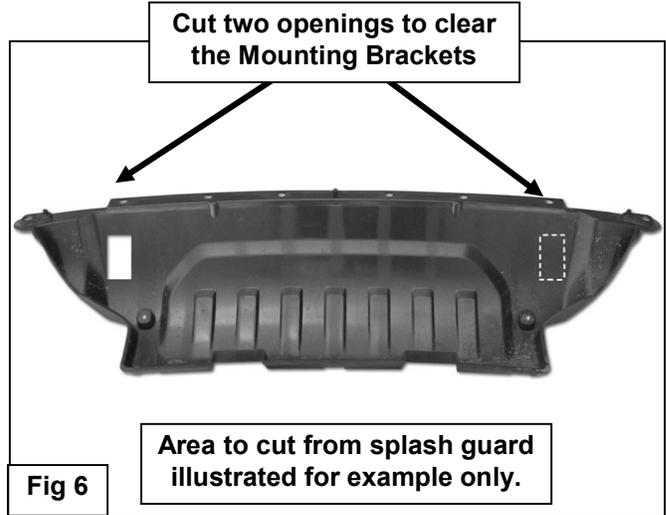
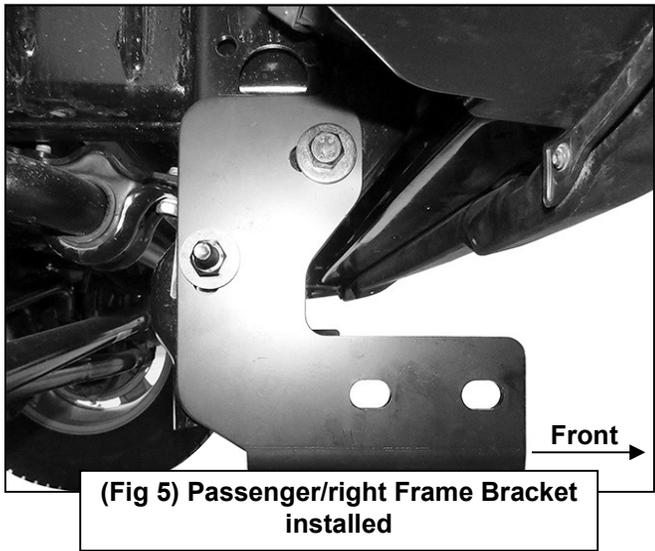
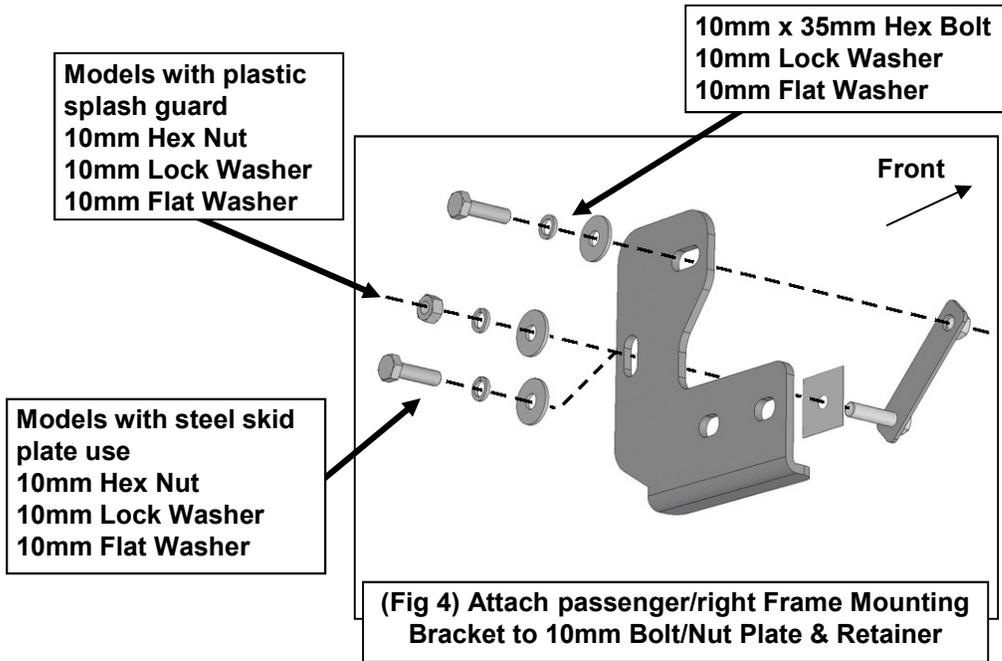
(Fig 1) Remove splash guard and bracket (arrow)

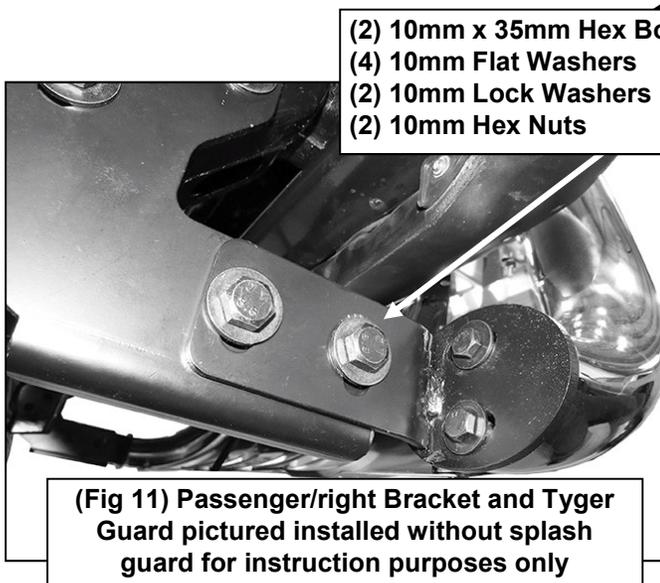
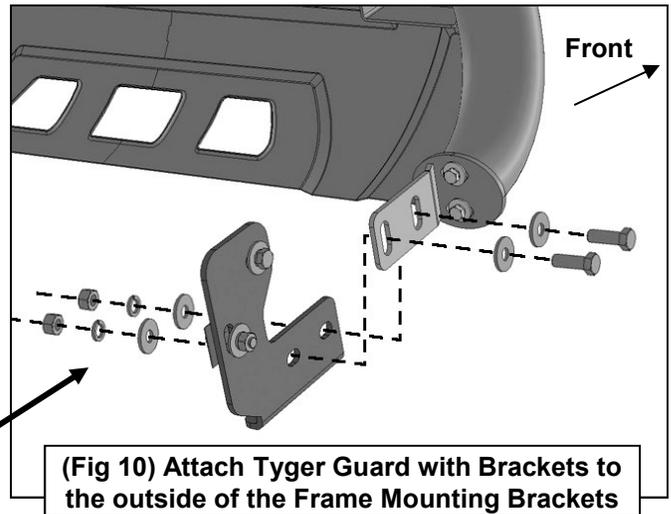
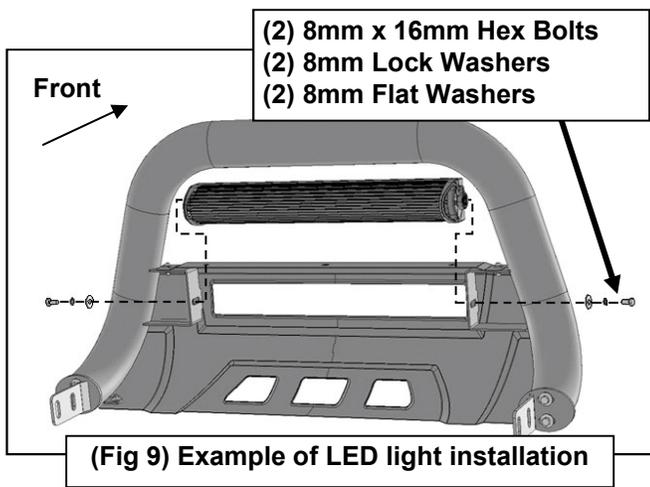


(Fig 2) Insert 10mm Bolt/Nut Plate into bottom of frame and out hex hole in side of frame (arrows)



(Fig 3) Use Retainer to hold 10mm Bolt/Nut Plate. Rotate Bolt/Nut Plate to line up Nut with factory hole





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.
- Aluminum polish may be used to polish small scratches and scuffs for Stainless Steel finish.
- Mild soap may be used to clean the product for both Stainless Steel and Black finish.

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:

**Black Powder Coated:
Stainless Steel Polished:**

**3 Year Limited Warranty
Limited Lifetime 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.