



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

**Part Number:  
E0043S/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:**

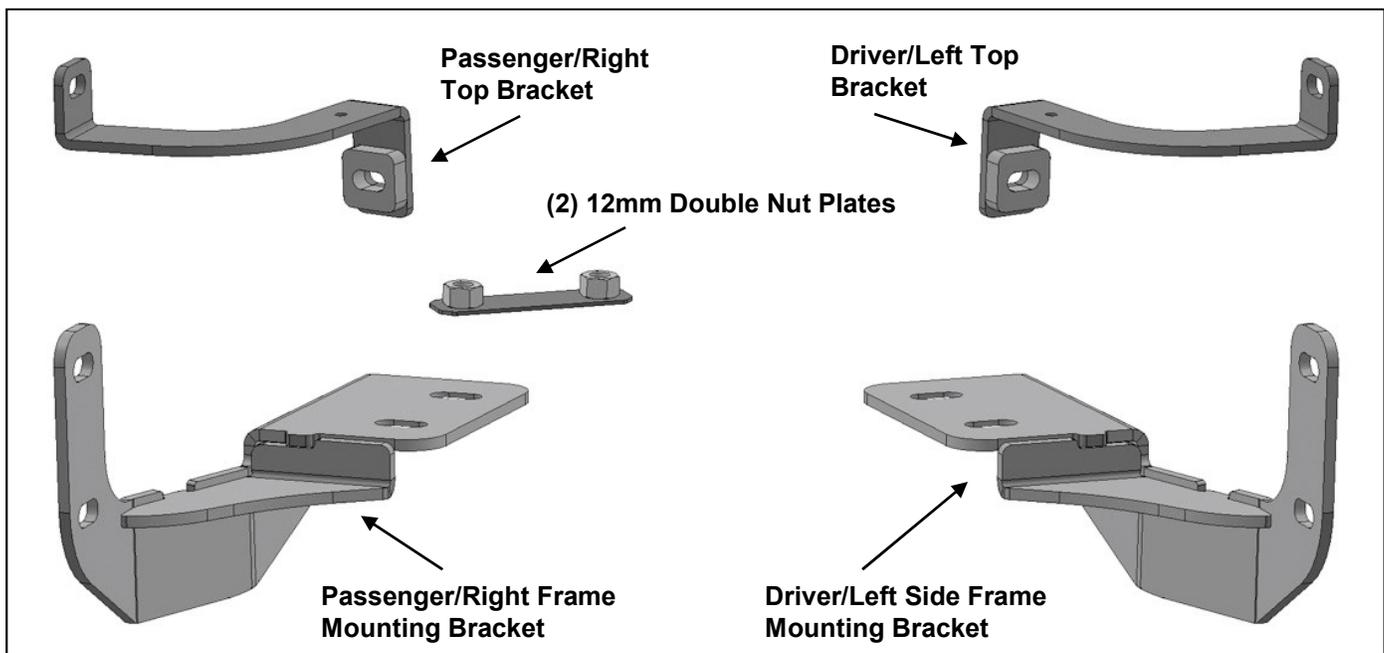
**2021-Current F-150 (INCL. F150 ECOBOOST / EXCL. ALL F150 RAPTOR MODELS, 20-21 DIESEL MODELS AND 2022 F150 LIGHTNING EV)**

**PARTS LIST**

Qty	Part Description	Qty	Part Description
1	Grille Guard	4	10-1.5mm x 30mm Hex Bolts
1	Driver/left Frame Bracket	8	10mm x 24mm OD x 2.2mm Flat Washers
1	Passenger/right Frame Bracket	4	10-1.5mm Nylon Locknuts
1	Driver/left Top Bracket	2	8-1.25mm x 50mm Hex Bolts
1	Passenger/right Top Bracket	2	8-1.25mm x 30mm Hex Bolts
2	12-1.75mm Double Nut Plates	6	8mm x 22mm OD x 2mm Flat Washers
4	12-1.75 x 35mm Hex Bolts	2	8mm Lock Washers
4	12 x 32mm OD x 3mm Flat Washers	2	8-1.25mm Nylon Lock Nuts
4	12mm Lock Washers		

**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. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. ASSISTANCE IS RECOMMENDED.**

1. Temporarily remove the front license plate.
2. From under the front bumper, remove the plastic active air dam from behind the front bumper if equipped, (Figure 1). Only remove the air dam, do not remove the motor assemblies, (Figure 2).
3. Disconnect wire harnesses leading to the front bumper, (fog lights and sensors for example, Figure 3).
4. From behind the bumper, remove the (3) large factory hex nuts attaching the bumper to each bumper bracket, (Figure 4). Move bumper to a clean, soft surface. **IMPORTANT:** Assistance is required to hold bumper in place as hardware is removed.
5. Remove the hex bolt from the bumper support on the back of the bumper, (Figure 5). Select the driver/left side Top Bracket, (Figure 6). Slightly loosen but do not remove the outer bolt on the end of the support.
6. Slide the Top Bracket between the support and the back of the bumper. Attach the Top Bracket to the support bracket and bumper with the included (1) 8mm x 50mm Hex Bolt, (1) 8mm Lock Washer and (1) 8mm Flat washer, (Figure 6). With Bracket mounting plate straight up and down, fully tighten the Hex Bolt.
7. Repeat Steps 5 & 6 to install the passenger/right side Top Bracket.
8. Remove both tow hooks and plastic trim from the end of the frame Select the driver/left side Top Bracket, (Figure 8). **NOTE:** Plastic trim must be cut to clear Bracket to be reinstalled or simply remove.

#### **Models without tow hooks:**

- a) Insert (1) 12mm Double Nut Plate into the end of the driver/left side of the frame, (Figures 8 & 9). Line up the Nut Plate with the holes in the bottom of the frame, (Figure 8).
  - b) Insert the included (2) 12mm x 35mm Hex Bolts, (2) 12mm Lock Washers and (2) 12mm Flat Washers up through the frame and into the Nut Plate to hold the Nut Plate in the correct position, (Figures 8 & 11). Leave hardware loose at this time. Repeat the previous Steps for the passenger/right side Double Nut Plate installation.
  - c) Remove the plastic covers from the driver and passenger side lower openings in the bottom of the bumper, (Figure 10)
9. Reinstall the bumper assembly

10. Select the driver/left Frame Mounting Bracket, (Figure 11). Insert the Bracket through the opening in the bumper.  
**Models with tow hooks:** Insert the Bracket between the tow hook and the frame. Reattach the tow hook over the Bracket with the factory bolts. Leave hardware loose.  
**Models without tow hooks:** Attach the Bracket to the bottom of the frame and Nut Plate with the (2) 12mm x 35mm Hex Bolts, (2) 12mm Lock Washers and (2) 12mm Flat Washers, (Figures 11 & 12). Leave hardware loose at this time.
11. Repeat appropriate previous Step for passenger/right side Frame Bracket installation Select the driver/left side Top Bracket, (Figure 13).
12. With assistance, place the Grille Guard up to the outside of the Brackets. Attach the Grille Guard to the Frame Brackets with (4) 10mm x 30mm Hex Bolts, (8) 10mm Flat Washers and (4) 10mm Nylon Lock Nuts, (Figure 14). Snug but do not tighten hardware at this time.
13. Line up the driver/left Top Bracket with the hole in the upright on the Grille Guard. Attach the Bracket to the Grille Guard with (1) 8mm x 30mm Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Nylon Lock Nut, (Figure 14). Repeat to attach the passenger side Top Bracket to the Grille Guard.
14. Center the Grille Guard on the vehicle. Once properly adjusted, fully tighten all hardware and reinstall license plate.
15. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

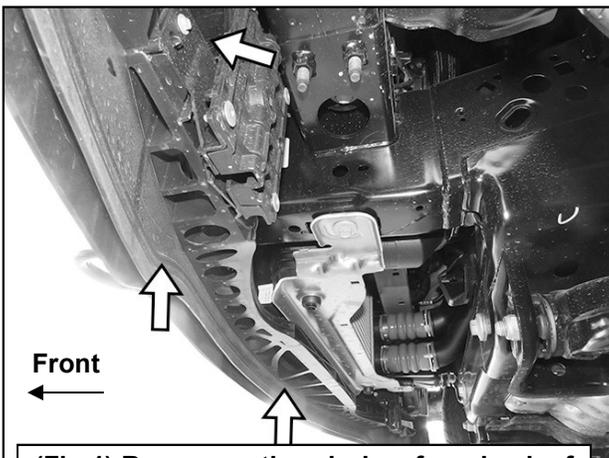
**To protect your investment, wax this product after installing. Regular waxing is recommended to add a protective layer over the finish. Do not use any type of polish or wax that may contain abrasives that could damage the finish.**

**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 Grille Guard.

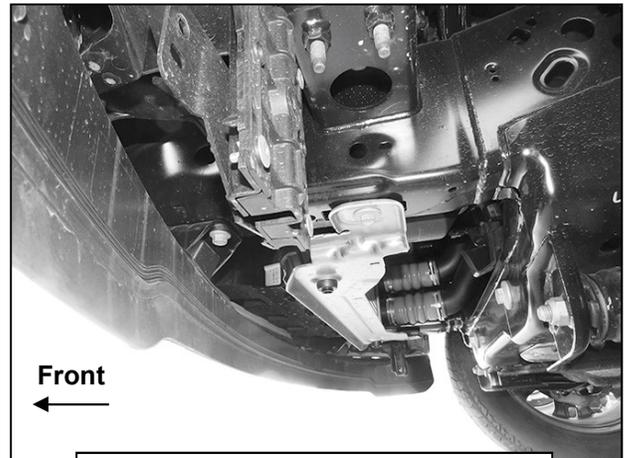
**For black finishes:** Mild soap may be used to clean the Grille Guard.

#### INSTALLATION IMAGES:

#### Driver Side Installation Pictured



**(Fig 1) Remove active air dam from back of bumper (arrows)**



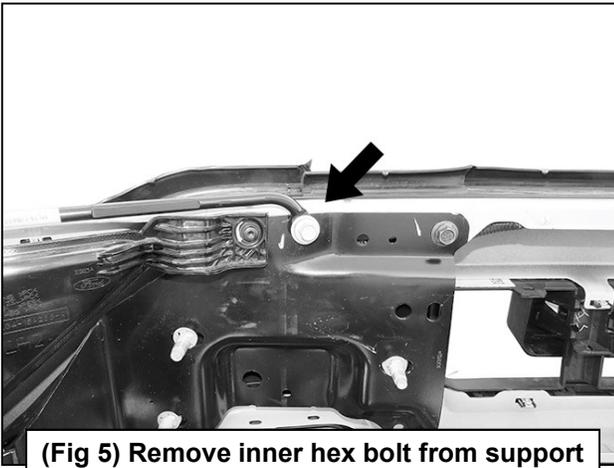
**(Fig 2) Active air dam removed**



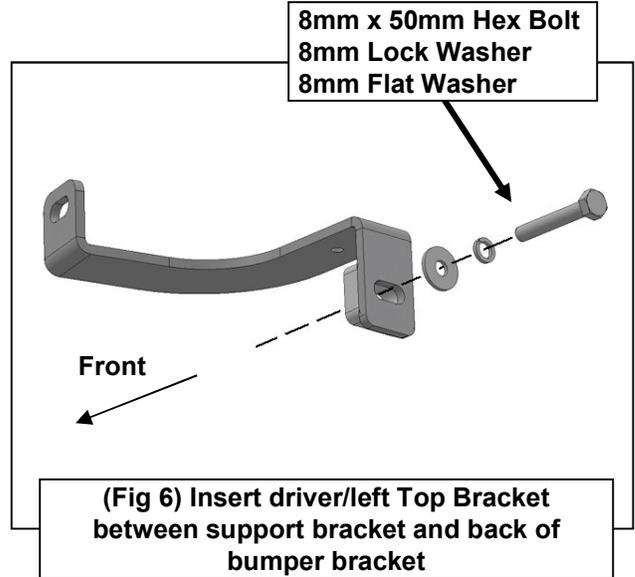
**(Fig 3) Unplug all wiring harnesses leading to the front bumper (arrow)**



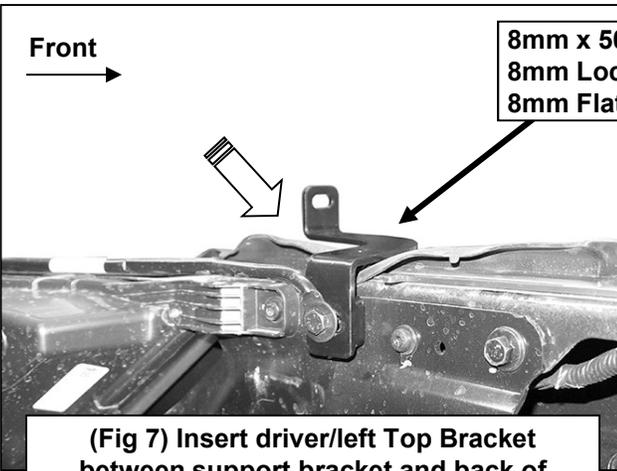
**(Fig 4) Remove hex nuts from back of driver/left bumper bracket to remove bumper (arrows)**



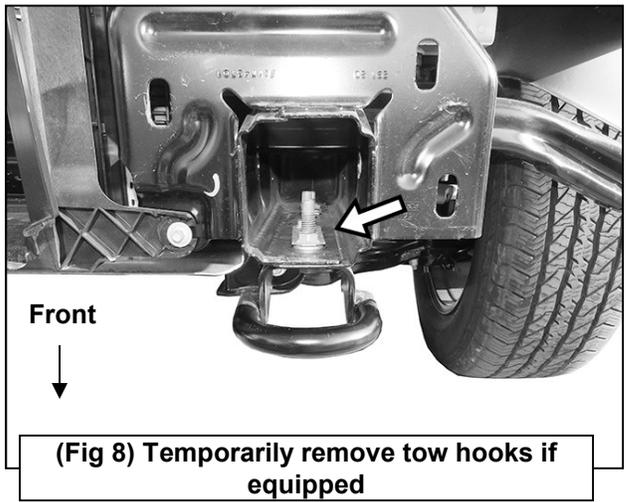
**(Fig 5) Remove inner hex bolt from support bracket on the back of driver/left bumper bracket (arrow). Loosen but do not remove outer hex bolt attaching support bracket**



**(Fig 6) Insert driver/left Top Bracket between support bracket and back of bumper bracket**



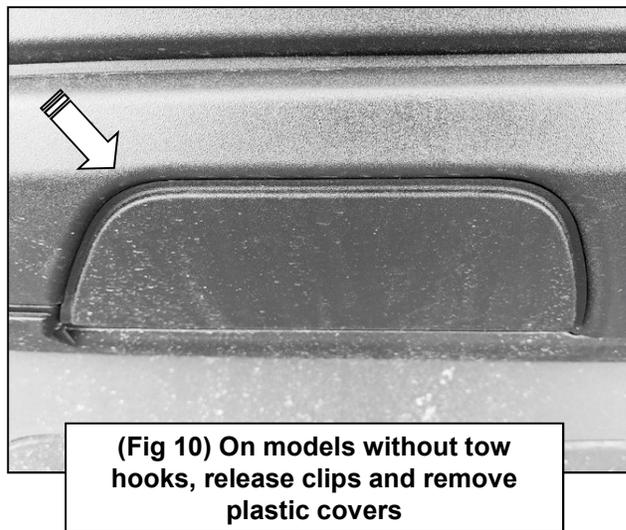
**(Fig 7) Insert driver/left Top Bracket between support bracket and back of bumper bracket**



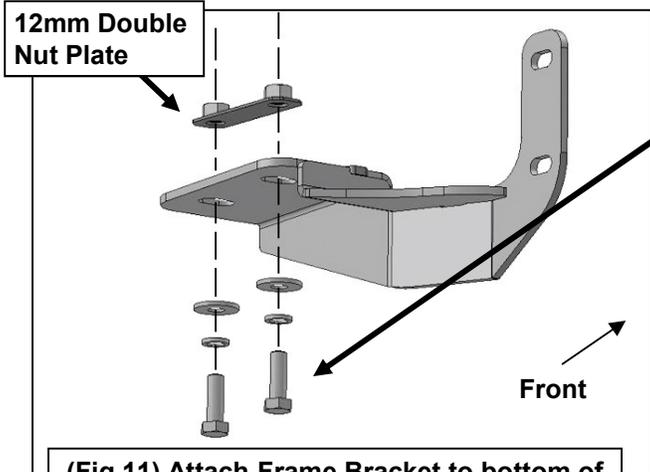
**(Fig 8) Temporarily remove tow hooks if equipped**



**(Fig 9) Models without tow hooks, insert Double Nut Plates into end of frame (see Fig 8)**



**(Fig 10) On models without tow hooks, release clips and remove plastic covers**



**12mm Double Nut Plate**

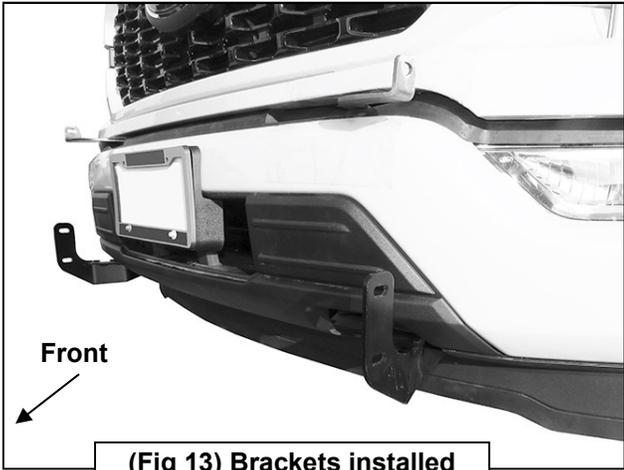
**Models without tow hooks, use:**  
 (2) 12mm x 35mm Hex Bolts  
 (2) 12mm Lock Washers  
 (2) 12mm Flat Washers

Front

**(Fig 11) Attach Frame Bracket to bottom of frame and Nut Plate. Models with tow hooks, attach Frame Bracket between tow hook and frame**



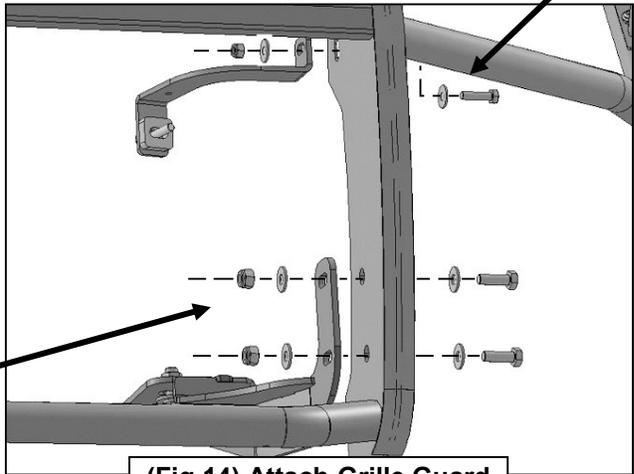
**(Fig 12) Driver/left side Frame Bracket installed without tow hook**



Front

**(Fig 13) Brackets installed**

**8mm x 30mm Hex Bolt  
 (2) 8mm Flat Washers  
 8mm Nylon Lock Nut**



**(2) 10mm x 30mm Hex Bolts  
 (4) 10mm Flat Washers  
 (2) 10mm Nylon Lock Nuts**

**(Fig 14) Attach Grille Guard to outside of Brackets**

## **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](http://www.trailfx.com) / [support@trailfx.com](mailto: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.