



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

**Part Number:
E0042S/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 JEEP 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)

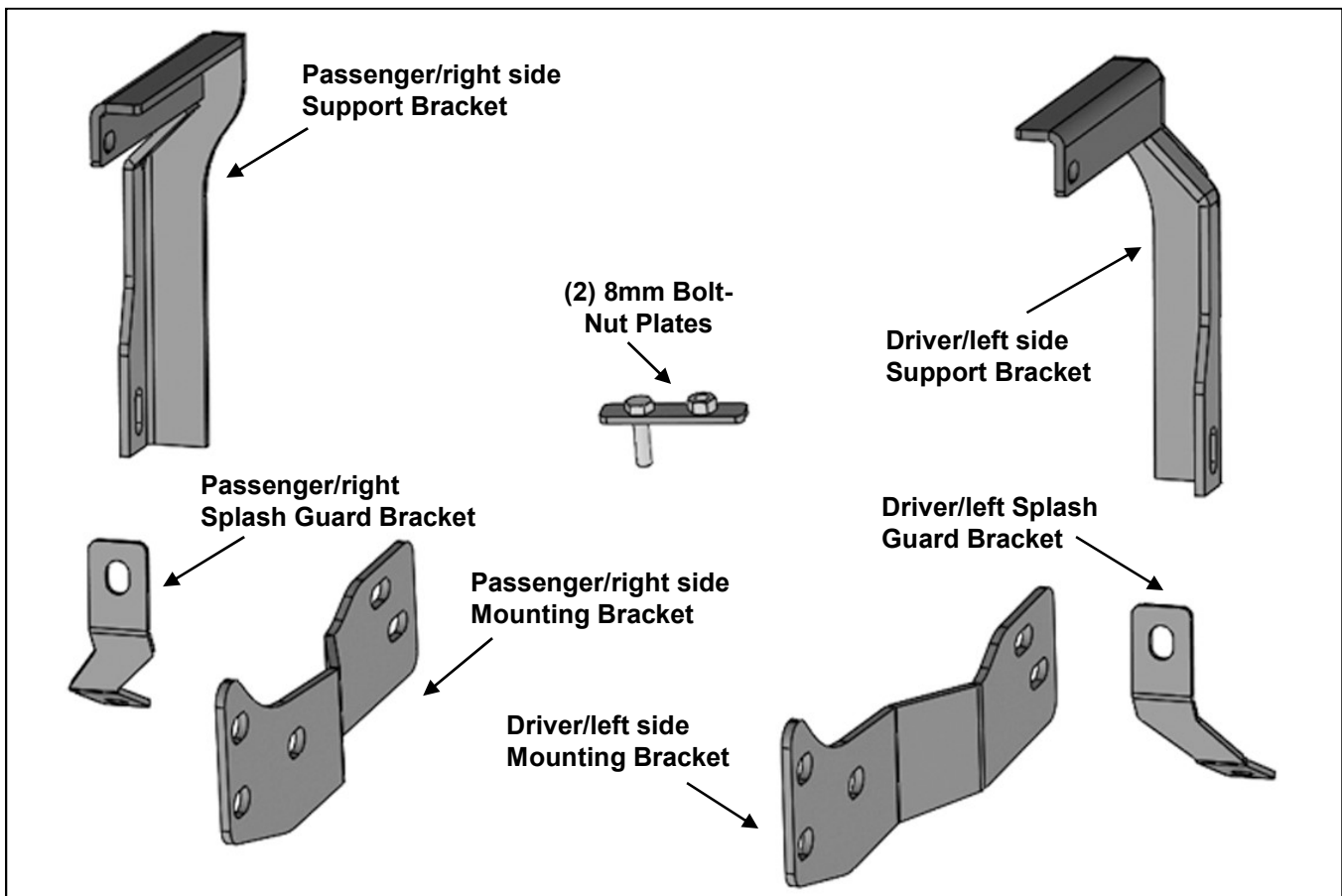
2020-Current GLADIATOR (Excl. Mojave trim and trims with Fox Hydraulic Jounce Bumpers and upgraded 2.5in FOX Internal Bypass shocks with external reservoir)

PARTS LIST

Qty	Part Description	Qty	Part Description
1	2018 Wrangler JL Grille Guard	4	10-1.5mm x 30mm Hex Bolts
1	Driver/left Mounting Bracket	4	10mm Lock Washers
1	Passenger/right Mounting Bracket	4	10mm x 30mm x 2.5mm Flat Washers
1	Driver/left Support Bracket	2	8-1.25mm Bolt-Nut Plates
1	Passenger/right Support Bracket	4	8-1.25mm x 30mm Hex Bolts
1	Driver/left side Splash Guard Bracket	2	8-1.25mm x 25mm Button Head Bolts
1	Passenger/right side Splash Guard Bracket	2	8mm Plastic Retainers
6	12-1.75mm x 35mm Hex Bolts	12	8mm x 24mm x 2mm Flat Washers
12	12mm x 24mm x 2.5mm Flat Washers	4	8mm 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. CUTTING IS REQUIRED. ASSISTANCE IS RECOMMENDED.

1. Starting from underneath the front bumper, remove the plastic lower splash guard, (Figure 1). Also, remove the metal plate behind the plastic splash guard, (Figure 2). From the top of the front bumper, remove the plastic fill panel between the front bumper and grille, (Figure 3).
2. Starting on the driver/left side of the frame, determine if the frame is equipped with threaded inserts.

Models with (2) hexagonal holes in the frame:

- a) Insert (1) 8mm Bolt-Nut Plate in through the bottom opening of the frame and push the Bolt on the Bolt-Nut plate out through the hexagonal hole on the inside of the frame, (Figure 4A). Thread (1) 8mm Plastic Retainer onto the Bolt on the Bolt-Nut Plate to keep the Plate in place. Align the Nut on the Bolt-Nut Plate to the adjacent hexagonal hole, (Figure 4B). NOTE: The Plastic Retainer is used to prevent the Bolt-Nut Plate from falling and help in Mounting Bracket installation.
- b) Select the Driver/left side Mounting Bracket. Attach the Bracket to the Bolt on the Bolt-Nut Plate using (1) 8mm Flat Washer, (1) 8mm lock Washer and (1) 8mm Hex Nut, (Figures 5 & 7). Attach the Bracket to the Nut on the Plate with (1) 8mm Hex Bolt, (1) 8mm Lock Washer and (1) 8mm Flat Washer, (Figures 5 & 7). Do not tighten hardware at this time.
- c) Repeat the previous steps to install the passenger/right side Mounting Bracket.

Models with threaded inserts:

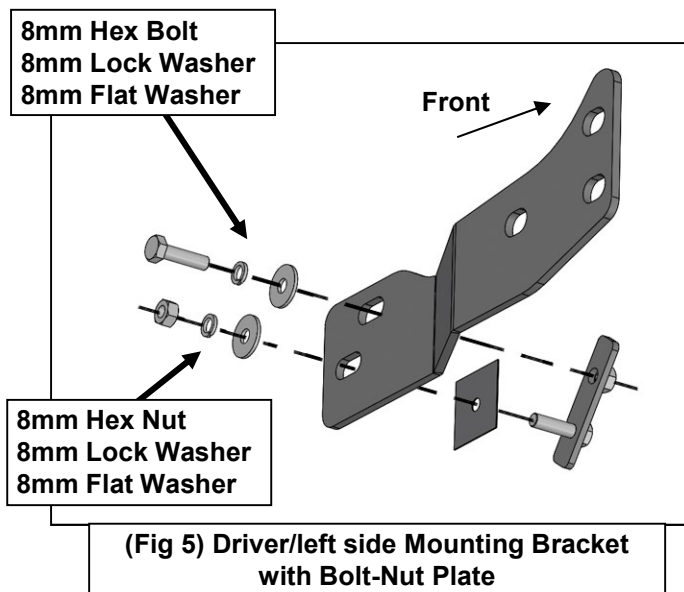
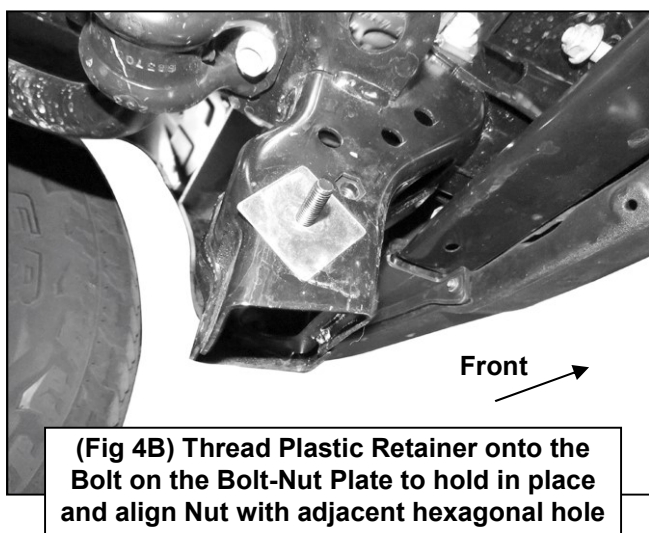
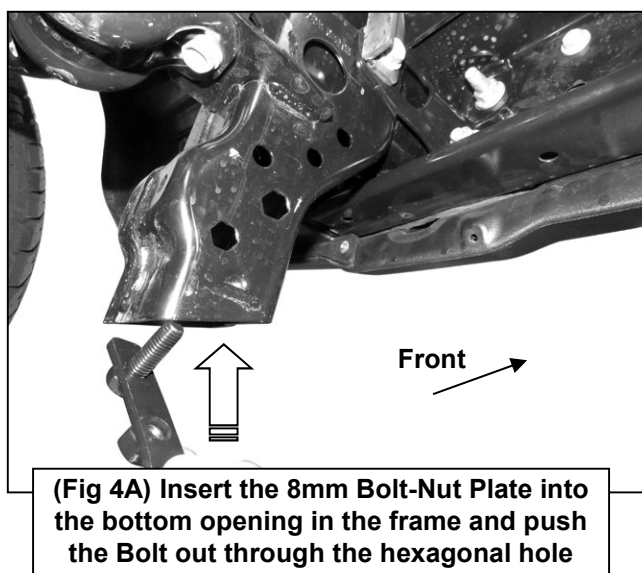
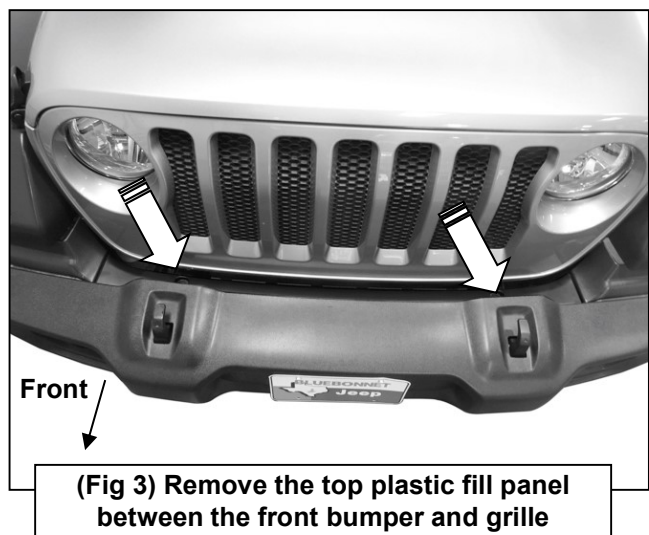
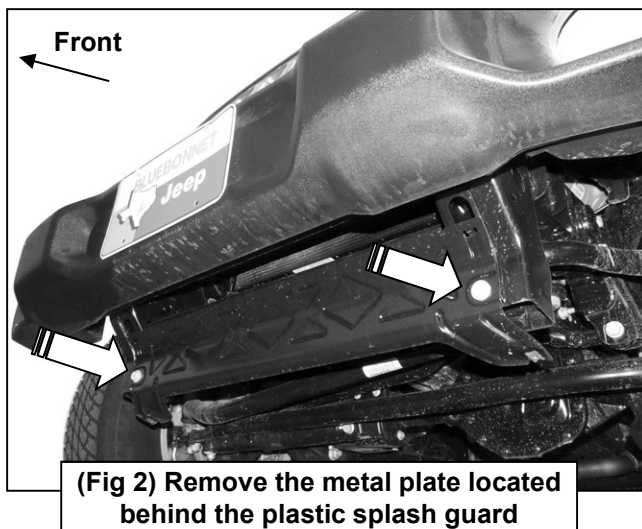
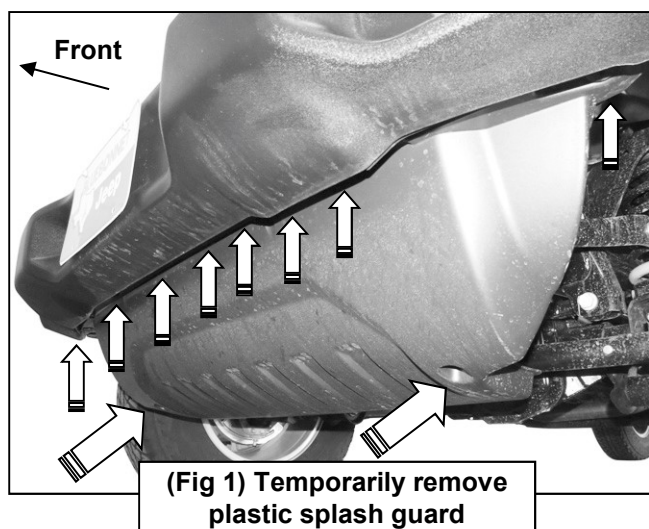
- a) Select the Driver/left side Mounting Bracket, (Figure 6). Attach the Bracket to the threaded holes on the inside of the frame using the provided (2) 10mm Hex Bolts, (2) 10mm Lock Washers and (2) 10mm Flat Washers, (Figure 6). Do not tighten hardware at this time
- b) Repeat the previous step to install the passenger/right side Mounting Bracket.

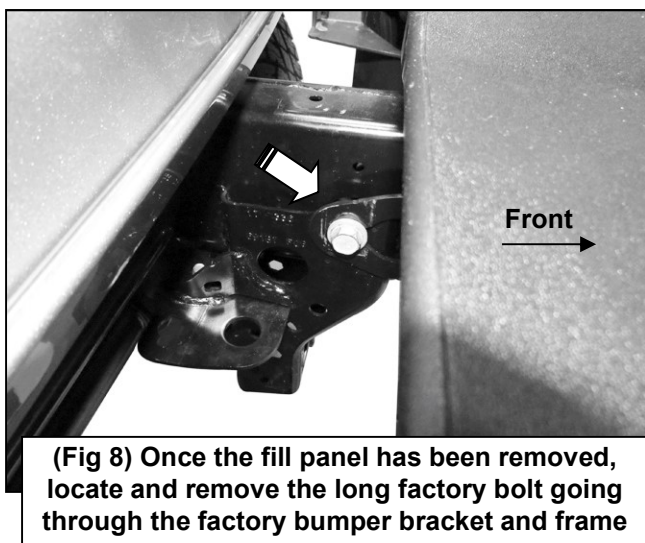
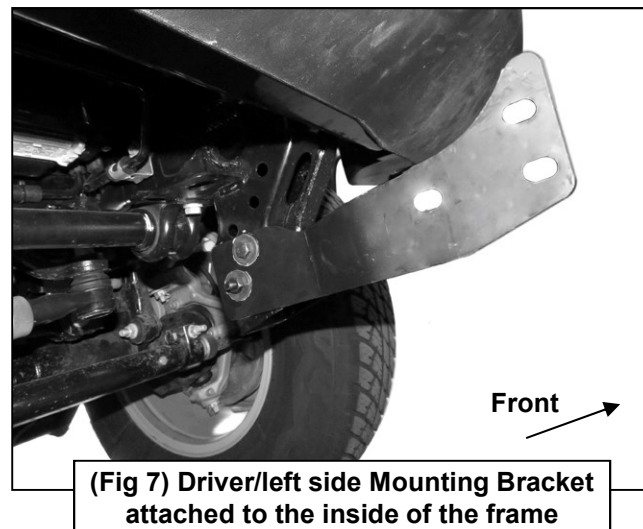
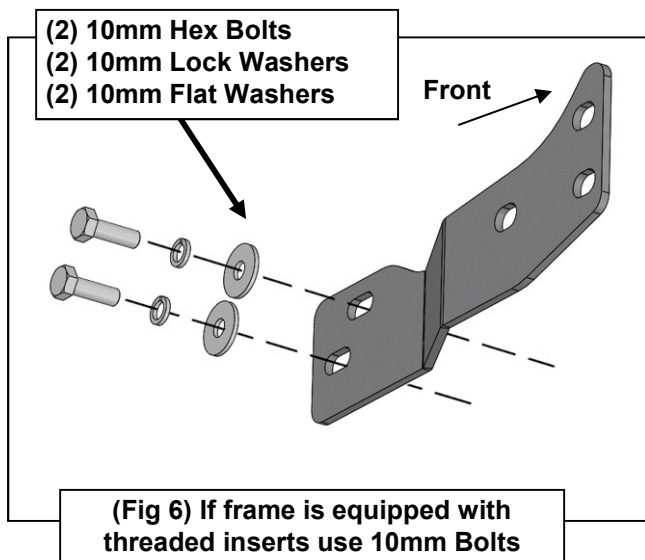
3. Move to the top of the driver/left side of the frame to install the Support Bracket. Locate and remove the long factory bolt going through the bumper bracket and frame, (Figure 8). **WARNING! DO NOT** remove both factory bolts at once or bumper may fall. Install one side at a time to avoid possible injury or damage to vehicle. Select the Driver/left side Support Bracket. Reuse the long factory bolt to attach the Support Bracket to the inside of the frame, (Figure 9). Snug but do not tighten hardware.
4. Repeat Step 4 to install the passenger/right side Support Bracket.
5. With assistance, lift the Grille Guard up to the outside of the Mounting Brackets. Line up the holes in the Mounting Brackets with the holes in the Grille Guard. Attach the Grille Guard to the Mounting Brackets with (6) 12mm Hex Bolts, (12) 12mm Flat Washers and (6) 12mm Nylon Lock Nuts, (Figures 10 & 11). Push the grille guard back into an upright position. Secure the Support Brackets to the inside of the grille guard with the included (2) 10mm Button Head Bolts, (4) 10mm Flat Washers and (2) 10mm Nylon Lock Nuts, (Figures 12 & 13). Snug but do not tighten all of the hardware.
6. Stand back from the vehicle and check to see that the Grille Guard is centered and level on the vehicle and adjust as required. It may be necessary to slightly loosen the Mounting Brackets to properly align the Grille Guard. **IMPORTANT:** Once properly aligned, fully tighten all Bracket to vehicle hardware only. If reinstalling fill panel and/or plastic splash guard then temporarily remove the Grille Guard. Otherwise, fully tighten all hardware at this time and proceed to the last step.
7. **To reinstall the plastic fill panel:**
 - a) Hold the fill panel up to the Support Brackets. Cut along the approximate area as indicated on the fill panel to clear the Support Brackets, (Figure 14). **NOTE:** Only cut enough to clear the Brackets. **DO** not cut completely through the front edge of the fill panel.
 - b) Temporarily remove the Support Brackets. **WARNING!** To avoid possible injury or damage to vehicle, use stands or blocks to hold the Bumper up when removing the factory bolts. Reinstall the fill panel. Slide the Support Brackets through the fill panel cut outs, trim as required, and reinstall Support Brackets, see Steps 4 & 5.
 - c) Tighten fill panel hardware.
8. **To reinstall the plastic splash guard:**
 - a) Hold the plastic splash guard up in its original position against the Mounting Brackets. Mark the location of the Mounting Brackets onto the inside of the splash guard, (Figure 15).
 - b) Cut out the sections to clear the Mounting Brackets. **IMPORTANT:** To maintain strength, remove as little material from the plastic splash guard as possible. Do not cut completely through the bottom edge of the splash guard.
 - c) Temporarily remove the Mounting Brackets. Reattach the top of the splash guard using the factory hardware, (Figure 1). Slide the Mounting Brackets through the splash guard cut outs, trim as required, and reinstall both Mounting Brackets, see Step 3.
 - d) Next, locate the mounting location for the driver/left side Splash Guard Bracket, (Figure 16). **NOTE:** Both Splash Guard Brackets look similar but each one is unique. Use Figure 17 to help identify the correct Bracket. Reuse the metal plate factory bolt to attach the Bracket to the front of the frame, (Figures 2 & 18). Leave hardware loose at this time.
 - e) Repeat the previous step for passenger/right side Splash Guard Bracket installation.
 - f) Align the Splash Guard Brackets with the bottom of the splash guard. Secure the bottom of the splash guard to the Brackets using the provided (2) 8mm Hex Bolts, (4) 8mm Flat Washers and (2) 8mm Nylon Lock Nuts, (Figure 18). Tighten all splash guard hardware.
9. Repeat Steps 6 & 7 to reinstall the Grille Guard and fully tighten all hardware.
10. Do periodic inspections of 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.

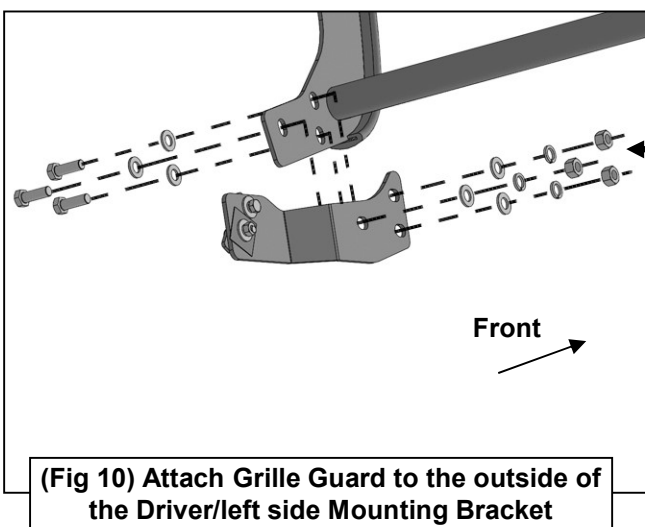
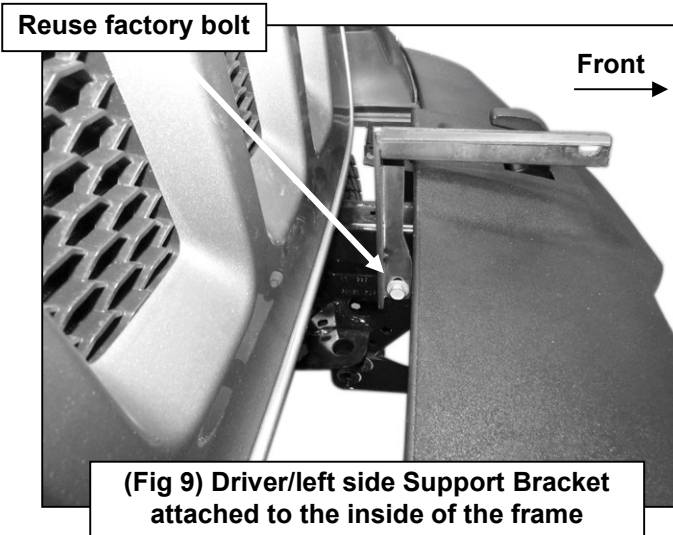
INSTALLATION IMAGES:

Driver/left Side Installation Pictured

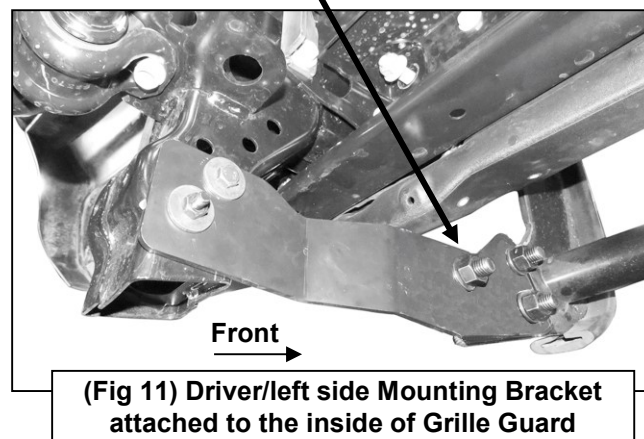


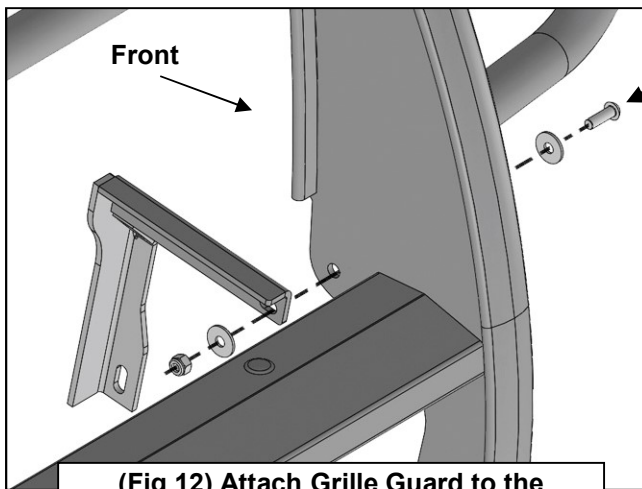


WARNING! DO NOT remove both factory bolts at once or bumper may fall. Install one side at a time to avoid possible injury or damage to vehicle.



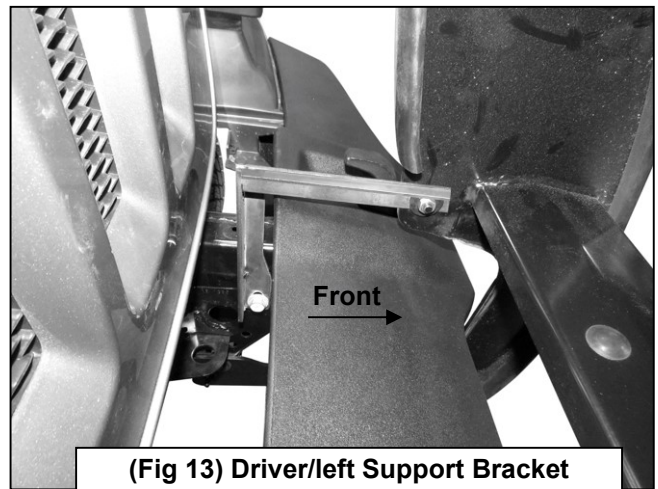
- (3) 12mm Hex Bolts
- (6) 12mm Flat Washers
- (3) 12mm Lock Washers
- (3) 12mm Hex Nuts



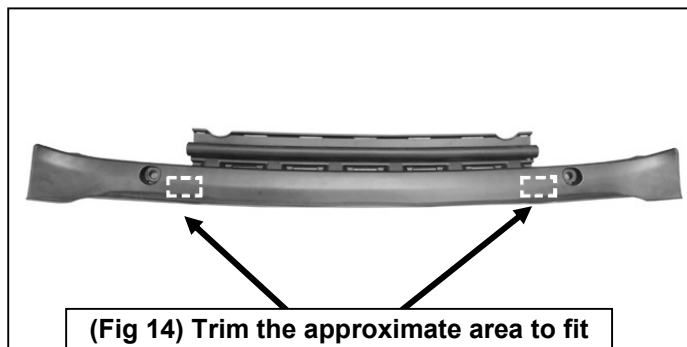


(Fig 12) Attach Grille Guard to the outside of the Driver/left Support Bracket

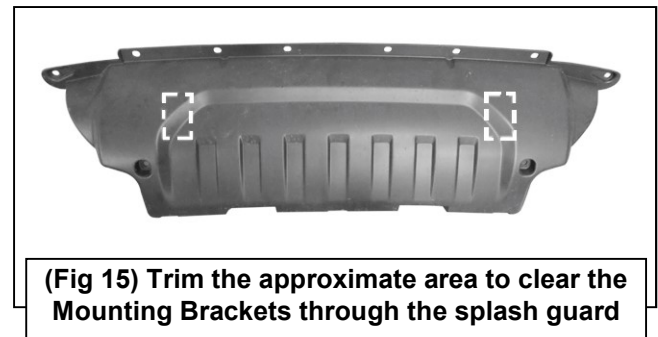
8mm Button Head Bolt
(2) 8mm Flat Washers
8mm Nylon Lock Nut



(Fig 13) Driver/left Support Bracket attached to the inside of the Grille Guard

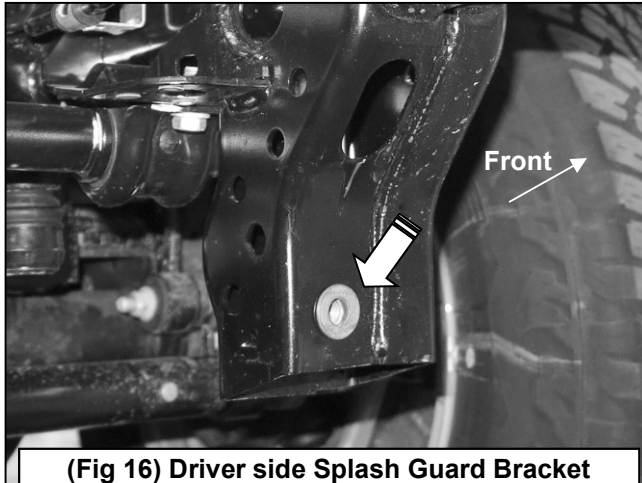


(Fig 14) Trim the approximate area to fit Support Brackets through fill panel



(Fig 15) Trim the approximate area to clear the Mounting Brackets through the splash guard

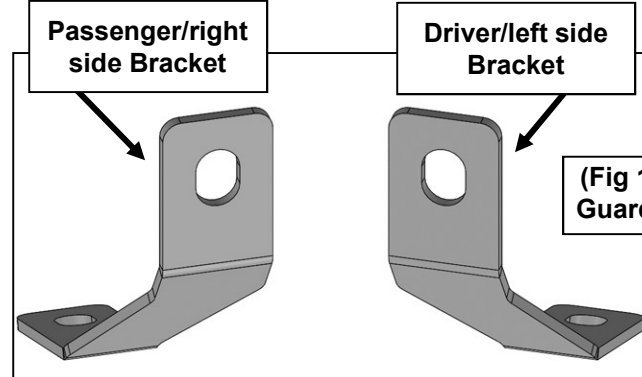
Temporarily, remove Grille Guard only. Hold the splash guard up in position against the Mounting Brackets. Mark the cut area on the inside of the cover. Start with a small opening and slowly enlarge the opening to get the best fit around the brackets. Area cut from cover pictured for example only.



(Fig 16) Driver side Splash Guard Bracket mounting location

Reuse factory bolt from metal plate to attach the Bracket to the frame

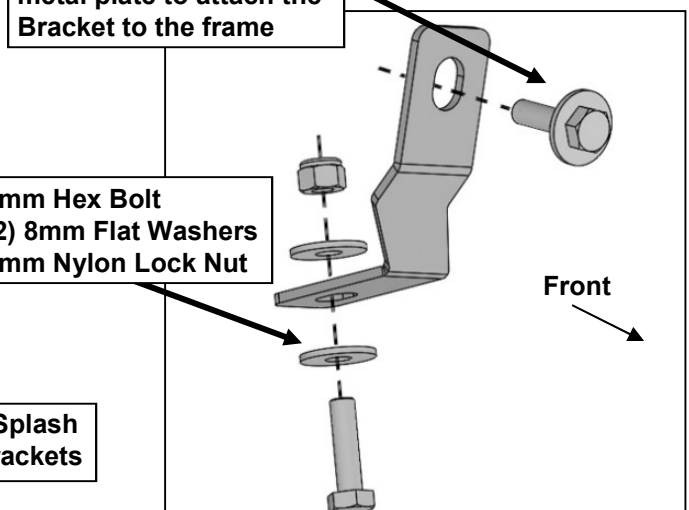
8mm Hex Bolt
(2) 8mm Flat Washers
8mm Nylon Lock Nut



Passenger/right side Bracket

Driver/left side Bracket

(Fig 17) Splash Guard Brackets



(Fig 18) Attach Driver/left side Splash Guard Bracket to frame and splash guard



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.