



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

**Part Number:
E0513B**

240 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:

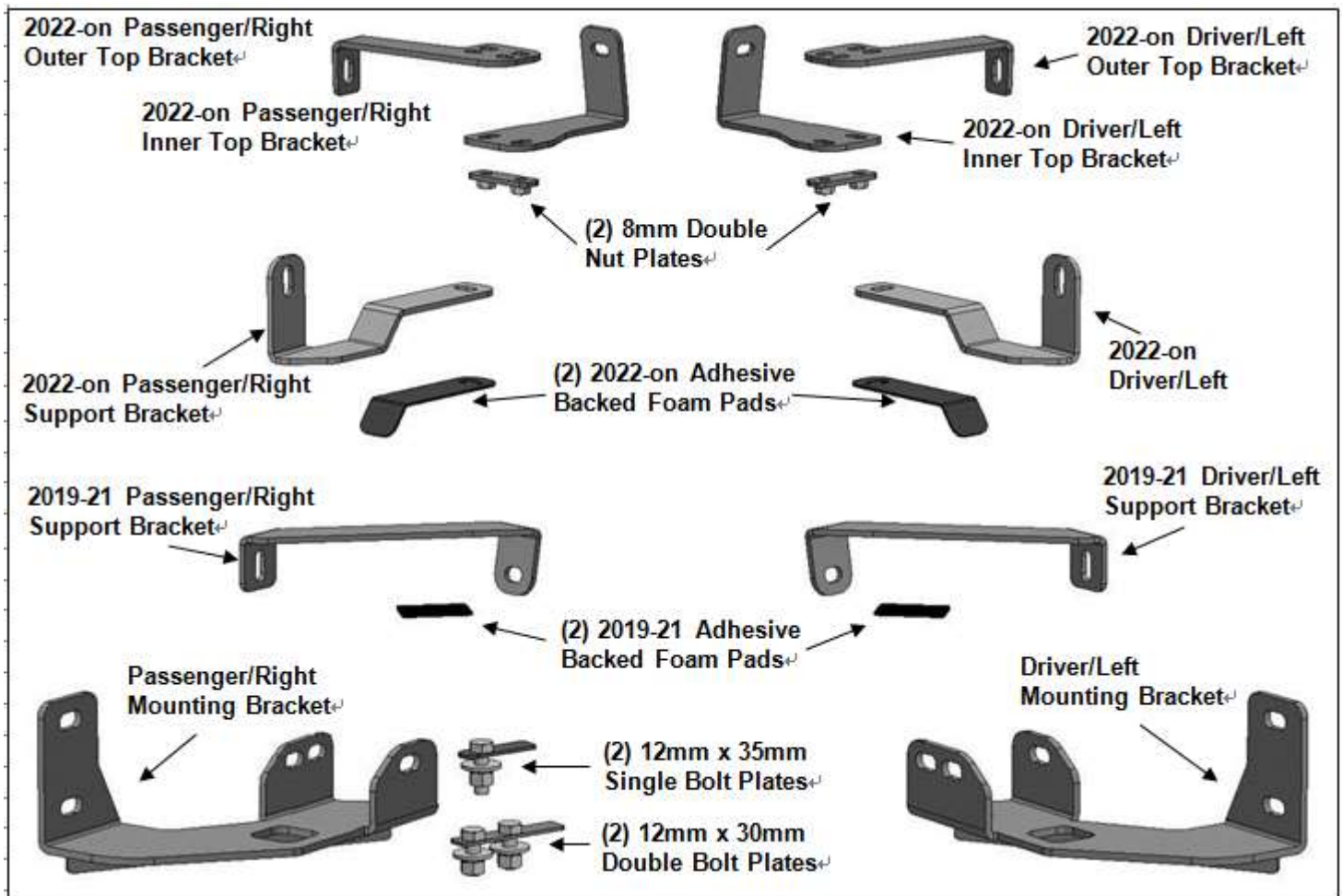
2019-23 SILVERADO 1500 (INCL. 2022 1500 LTD AND DIESEL MODELS WITH DEF TANKS & EXCL. 19-21 SILVERADO 1500LD AND 22-23 MODELS WITH SUPER CRUISE SYSTEM)

PARTS LIST:

Qty	Part Description	Qty	Part Description
1	Extreme Grille Guard Assembly	2	12-1.75mm x 30mm Double Bolt Plates
1	Driver/Left Frame Mounting Bracket	2	12-1.75mm x 35mm Single Bolt Plates
1	Passenger/Right Frame Mounting Bracket	4	12-1.75mm x 35mm Hex Bolts
1	2022-23 Driver/Left Outer Top Bracket	14	12mm x 32mm x 3mm Flat Washers
1	2022-23 Passenger/Right Outer Top Bracket	10	12mm Lock Washers
1	2022-23 Driver/Left Inner Top Bracket	10	12-1.75mm Hex Nuts
1	2022-23 Passenger/Right Inner Top Bracket	4	10-1.50mm x 30mm Hex Bolts
1	2022-23 Driver/Left Support Bracket	8	10mm x 27mm x 3mm Flat Washers
1	2022-23 Passenger/Right Support Bracket	4	10mm Nylon Lock Nuts
2	2022-23 Support Bracket Foam Pads	2	8mm Double Nut Plates
1	2019-21 Driver/Left Support Bracket	6	8-1.25mm x 30mm Hex Bolts
1	2019-21 Passenger/Right Support Bracket	6	8mm x 24mm x 2mm Flat Washers
2	2019-21 Support Bracket Foam Pads	6	8mm Lock Washers
		1	Wrench

TORQUE SPECIFICATION

Size	Torque	Size	Torque
08 MM	20 ft/lbs	10 MM	34.5 ft/lbs
12 MM	70 ft/lbs		



INSTALLATION PROCEDURE:

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

1. Determine model year of vehicle.

2019-21 models:

- a. Remove the factory tow hook hardware if equipped, (Figures 1 & 2). NOTE: Leave tow hooks in the frame.
- b. Cut out the indented area in both sides of the plastic bumper insert to clear the Brackets as pictured, (Figure 3 & 4). NOTE: Models with tow hooks will only require minor trimming to the bottom of the opening. IMPORTANT: Make several small cuts for best fit. Do not cut through the top or bottom edge of the plastic panel.
- c. Select the driver/left Frame Bracket, (Figure 5). Insert the Bracket through the opening in the bumper. Line up the Bracket with the mounting holes in the frame for the tow hook, (Figure 2).

Models with tow hooks:

- i. Reuse factory hardware to attach Bracket to the bottom of the frame and tow hook, (Figure 2).

Models without tow hooks:

- i. Select (1) 12mm Single Bolt Plate, (Figures 5 & 6). Insert the Bolt Plate into the end of the frame, through the hole in the side of the frame and out through the Frame Bracket. Attach the Frame Bracket to the Bolt Plate with (1) 12mm Flat Washer, (1) 12mm Lock Washer and (1) 12mm Hex Nut, (Figure 6). Snug but do not tighten at this time

INSTALLATION PROCEDURE CONTINUED:

- ii. Select (1) 12mm Double Bolt Plate, (Figures 5 & 7). Attach the Frame Bracket to the Bolt Plate with (2) 12mm Flat Washers, (2) 12mm Lock Washers and (2) 12mm Hex Nuts, (Figure 7). Snug but do not fully tighten hardware at this time.
- d. Repeat the previous Steps to install the passenger/right Frame Mounting Bracket.
- e. Open the hood and remove the hood release lever. Next remove the cover between the top of the radiator and the grille, (Figure 8). Temporarily reinstall the hood release lever.
- f. Carefully remove the grille from the vehicle, (Figure 9). NOTE: Grille is held in place with screws at the top and several clips. Remove the screws and firmly pull the grille straight out from the vehicle to release the grille from clips. Models with grille mounted camera, unplug camera wiring harness.
- g. Move to the top of the bumper. Select the driver/left 2019-21 Support Bracket, (Figure 10). Apply a layer of the included Foam Tape to the bottom of the Bracket. Trim Foam for best fit.
- h. Locate the (2) factory hex bolts attaching the top of the driver/left side of the bumper to the inner bumper bracket, (Figure 11). Remove the outer hex bolt. Reuse the factory hex bolt to attach the Support Bracket to the back of the bumper, (Figure 12). Do not tighten hardware at this time.
- i. Repeat Steps g & h to install the passenger/right 2019-21 Support Bracket, (Figure 13).
- j. Skip to Step 2 below.

2022-23 models:

- a. Remove the factory tow hooks if equipped, (Figures 14—16). NOTE: It may be necessary to carefully pry the mounting tabs on bumper bracket to remove the long hex bolt. OPTIONAL: Models with intercooler (turbo), it may be necessary or easier to remove bumper assembly, see “Tow Hook Reinstallation” Steps below. IMPORTANT: Drilling is required to reinstall tow hooks-see “Tow Hook Reinstallation” Steps below.
- b. Cut out the indented area in both sides of the plastic bumper insert to clear the Frame Brackets as pictured, (Figure 16). NOTE: Models with tow hooks will only require minor trimming to the bottom of the opening. IMPORTANT: Make several small cuts for best fit. Do not cut through the top or bottom edge of the plastic panel.
- c. Select the driver/left Frame Mounting Bracket, (Figure 5). Insert the Frame Bracket through the opening in the bumper. Line up the holes in the Bracket with the holes in the side of the frame.
- d. Select (1) 12mm Single Bolt Plate, (Figures 5 & 6). Insert the Bolt Plate into the end of the frame, through the hole in the side of the frame and out through the Frame Bracket, Attach the Frame Bracket to the Bolt Plate with (1) 12mm Flat Washer, (1) 12mm Lock Washer and (1) 12mm Hex Nut, (Figure 6). Snug but do not tighten at this time.
- e. Select (1) 12mm Double Bolt Plate, (Figures 5 & 7). Insert the Bolt Plate into the end of the frame, through the holes in the side of the frame and out through the Frame Bracket, Attach the Frame Bracket to the Bolt Plate with (2) 12mm Flat Washers, (2) 12mm Lock Washers and (2) 12mm Hex Nuts, (Figure 7). Snug but do not fully tighten hardware at this time.
- f. Repeat previous Steps to install the passenger/right Frame Mounting Bracket.
- g. Remove the screws and release the clips attaching the driver/left front fender liner to the plastic front body panel, (fascia), between the headlight and the top of the bumper, (Figure 17).
- h. Release the plastic fascia body panel below the headlight, (Figure 18). Repeat previous Steps to release the passenger/right side and remove the fascia body panel, (Figure 20).
- i. Open the hood and remove the hood release lever. Next remove the cover between the top of the radiator and the grille, (Figure 19). Temporarily reinstall the hood release lever.

INSTALLATION PROCEDURE CONTINUED:

- j. Carefully remove the grille from the vehicle, (Figure 20). Models with grille mounted camera, unplug camera. NOTE: Grille is held in place with screws at the top, bottom and several clips. Remove the screws and firmly pull the grille straight out from the vehicle to release the grille from clips.
- k. Select the driver/left 2022-23 Support Bracket, (Figure 21). Apply a layer of the included Foam Tape to the bottom of the Bracket. Trim Foam for best fit.
- l. Pull back the rubber cover on the top of the driver/left side of the bumper to locate and remove the factory hex bolt, (Figure 22). Reuse the factory hex bolt to attach the Support Bracket to the top of the bumper bracket, (Figure 23). Do not tighten hardware.
- m. Repeat previous Steps to install the passenger/right 2022-23 Support Bracket, (Figure 23).
- n. Move to the top of the shutter assembly in the radiator opening. Remove the top blades from both sides of the shutter assembly, (Figures 24 & 25). NOTE: Use a small pry tool to pop the ends of the top blades out of the housing.
- o. Select the driver/left 2022-23 Inner Top Mounting Bracket, (Figure 26). Remove the factory hex bolt from the back of the radiator support. Use the included (1) 8mm x 30mm Hex Bolt, (1) 8mm Lock Washer and (1) 8mm Flat Washer to attach the Inner Top Mounting Bracket to the back of the radiator support, (Figures 27, 28 & 30).
- p. Repeat the previous Steps to attach the passenger/right 2022-23 Inner Top Mounting Bracket, (Figure 29).
- q. Models without tow hooks, skip to Step 2 below.

Tow Hook Reinstallation 2022-23 models

(Optional-requires bumper removal and drilling of frame):

- a. Remove the Frame Brackets and Support Brackets from the top of the bumper if previously installed, (Figure 22).
- b. From below the front bumper, remove the hardware attaching the outer bumper supports to the bottom of the frame, (Figure 31). Also remove the hardware attaching the bottom of the bumper to the inner bumper brackets attached to the bottom of the frame, (Figure 32).
- c. Move to the top of the bumper. Unplug all wiring harnesses leading to the front bumper.
- d. Pull back the rubber cover to locate the (2) factory hex bolts per side attaching the bumper to the inner bumper bracket, (Figure 33). With assistance, remove the hex bolts to remove the bumper assembly, (Figure 34).
- e. Models with airbox and shutter assembly in front of radiator, unplug and temporarily remove the assembly, (Figures 34 & 35).
- f. Select (1) tow hook. Flip tow hook upside-down and insert into driver/left frame channel. Insert the long hex bolt to hold tow hook in place. Leave hex bolt loose at this time.
- g. Hold the driver/left Frame Bracket up in position on the frame to check for clearance between tow hook and top of Frame Bracket. Mark the outside of the driver/left side of the frame to drill a 1/2" hole for tow hook mounting bolt, (Figure 36). Remove tow hook and drill mounting hole. Repeat to drill out the inner side of passenger/right frame rail, (Figure 37).
- h. Reuse the factory hardware to reinstall the tow hooks.
- i. Reinstall the front bumper assembly. Plug in all wiring harnesses leading to front bumper.
- j. Follow previous Steps to reinstall the Frame Brackets and 2022-23 Center Support Brackets

INSTALLATION PROCEDURE CONTINUED:

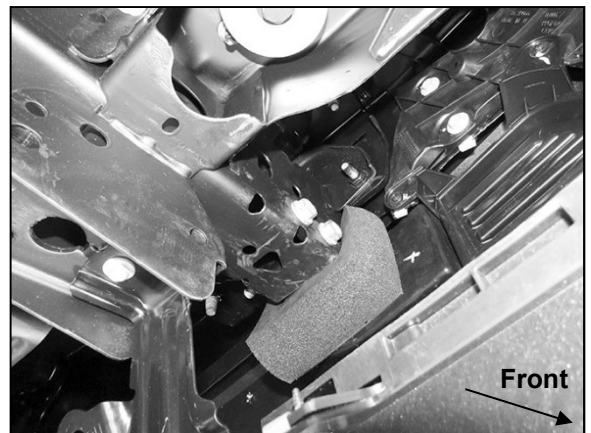
2. With assistance, hold the Grille Guard up in position on the outside of the Frame Mounting Brackets, (Figure 38). Attach the Grille Guard to the Frame Brackets with (4) 12mm x 35mm Hex Bolts, (8) 12mm Flat Washers, (4) 12mm Lock Washers and (4) 12mm Hex Nuts, (Figure 39 & 40). Leave loose.
3. Attach the Support Brackets to the Grille Guard with the included (2) 10mm x 30mm Hex Bolts, (4) 10mm Flat Washers and (2) 10mm Nylon Lock Nuts, (Figures 41—43).
4. Check the Grille Guard alignment with the vehicle. Adjust as required then fully tighten the Top and Frame Bracket to vehicle hardware only. Do not fully tighten the Grille Guard to Bracket hardware.
5. Reinstall the grille and top cover. Models with grille mounted camera, plug in wiring harness to camera. On 2022-23 models, also reinstall the plastic fascia body panel. NOTE: Loosen the hardware attaching the Grille Guard to the Brackets and tilt the Grille Guard forward or temporarily remove Grille Guard to make room to reinstall the grille and fascia.
 - a. **2022-23 Models Only:** Select the driver/left Outer Top Bracket, (Figure 44). Attach the Outer Top Bracket to the top of the Inner Top Bracket with the included (2) 8mm x 30mm Hex Bolts, (2) 8mm Lock Washers, (2) 8mm Flat Washers and (1) 8mm Double Nut Plate.
 - b. Attach the bent end of the Top Bracket to the tab on the Grille Guard with the included (1) 10mm x 30mm Hex Bolt, (2) 10mm Flat Washers and (1) 10mm Nylon Lock Nut, (Figure 45).
 - c. Repeat the previous Steps to attach the passenger/right 2022-23 Top Bracket.
6. Level and adjust the Grille Guard and fully tighten all hardware.
7. On models with grille mounted front camera, remove center panel from the Grille Guard, (Figure 46).
8. 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 also to clean the Grille Guard.

INSTALLATION PROCEDURE IMAGES:



(Fig 1) 2019-21 model driver/left tow hook



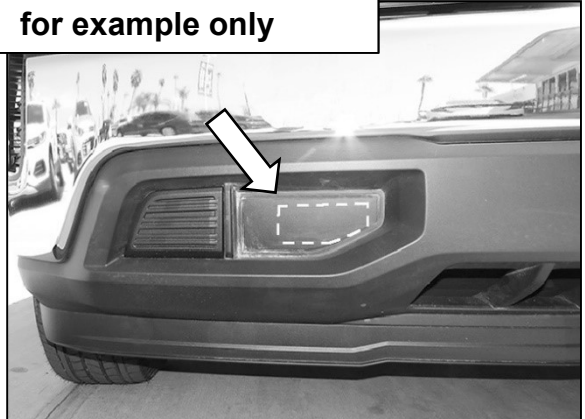
(Fig 2) 2019-21 model passenger/right tow hook pictured from behind bumper

INSTALLATION PROCEDURE IMAGES:

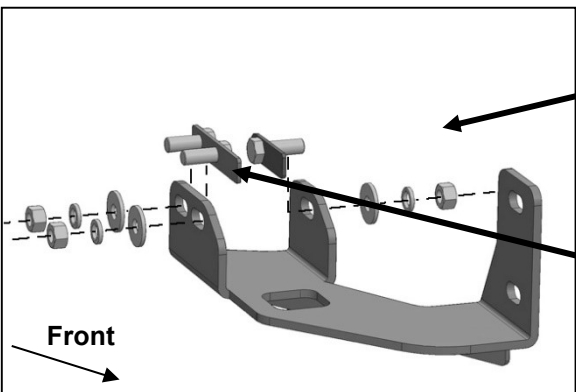


(Fig 3) Tow hook removed. Opening may need to be trimmed to clear the Mounting Bracket

Area to cut out illustrated for example only



(Fig 4) 2019-21 passenger/right side model without tow hooks. Dashed line for example of cut only

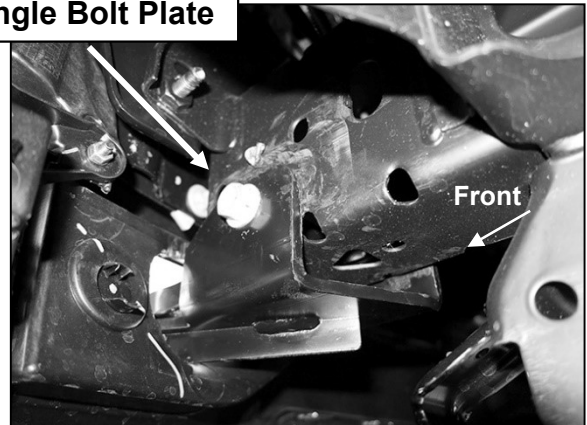


**12mm Single Bolt Plate
12mm Flat Washer
12mm Lock Washer
12mm Hex Nut**

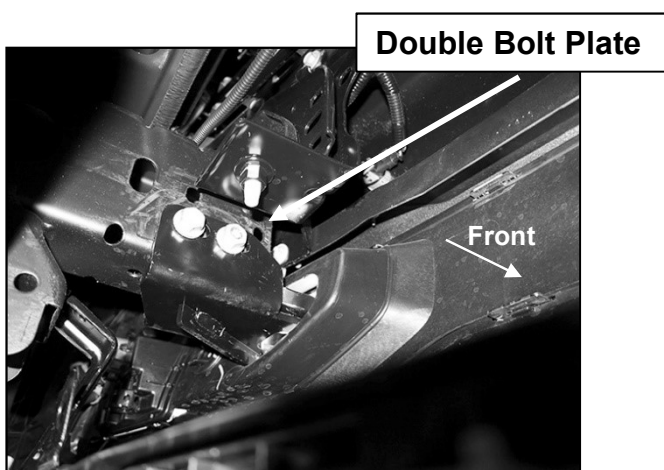
**12mm Single Bolt Plate
12mm Flat Washer
12mm Lock Washer
12mm Hex Nut**

(Fig 5) Attach Driver/left Mounting Bracket to end of frame with Bolt Plates

Single Bolt Plate



(Fig 6) Attach Driver/left Mounting Bracket assembly to end of frame with Bolt Plates



(Fig 7) Attach Driver/left Mounting Bracket assembly to end of frame with Bolt Plates

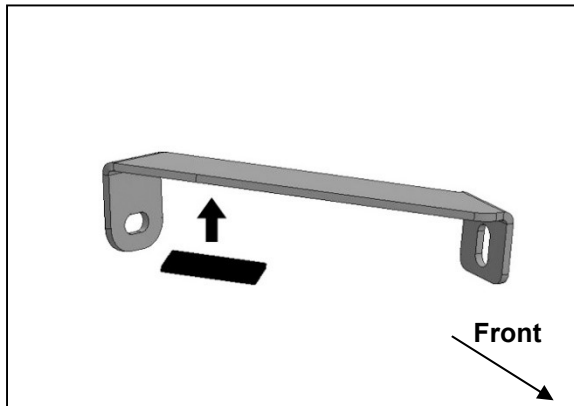
INSTALLATION PROCEDURE IMAGES:



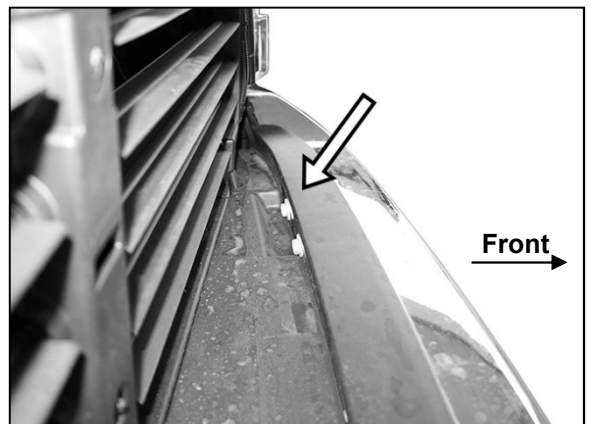
(Fig 8) Remove hood release lever and plastic cover from top of grille



(Fig 9) Remove screws attaching grille and carefully pull grille straight out to remove



(Fig 10) Apply Foam Tape to bottom of driver/left 2019-21 Model Top Bracket



(Fig 11) 2019-21 Model, driver/left side top mounting location



Apply Any remaining tape to the top of the Bracket

(Fig 12) 2019-21 Model, reuse factory hex bolt to attach Support Bracket to back of bumper



(Fig 13) 2019-21 model Brackets installed

INSTALLATION PROCEDURE IMAGES:



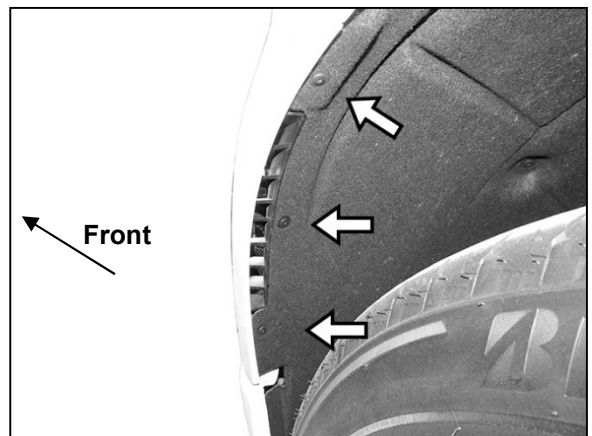
(Fig 14) 2022-on model, remove driver/left tow hook (pictured from behind bumper)



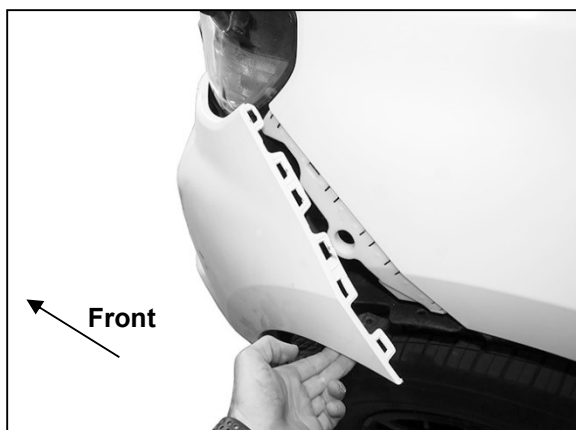
(Fig 15) 2022-on model, remove driver/left tow hook (pictured from behind bumper)



(Fig 16) 2022-on model, cut opening to clear Frame Bracket. Note dashed line for example only



(Fig 17) 2022-on model, remove the hardware attaching fender liners to fenders (arrows)



(Fig 18) 2022-on model, remove plastic body panel between headlight and bumper, (fascia)

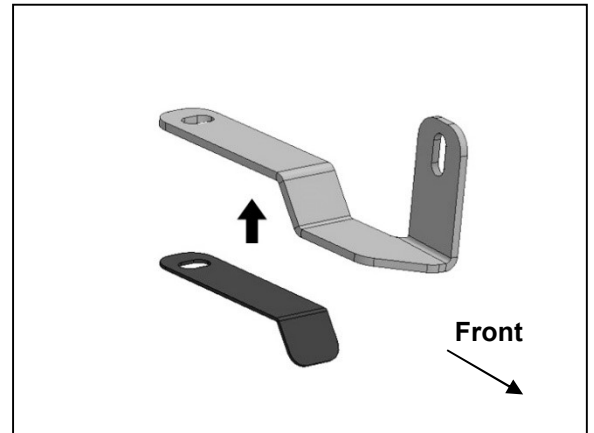


(Fig 19) 2022-on model remove hood release lever and cover, (arrow). Also remove grille

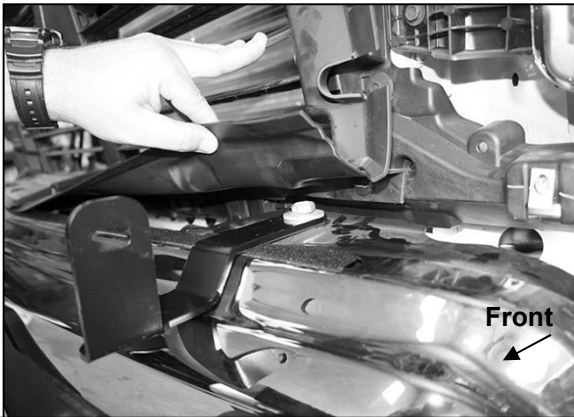
INSTALLATION PROCEDURE IMAGES:



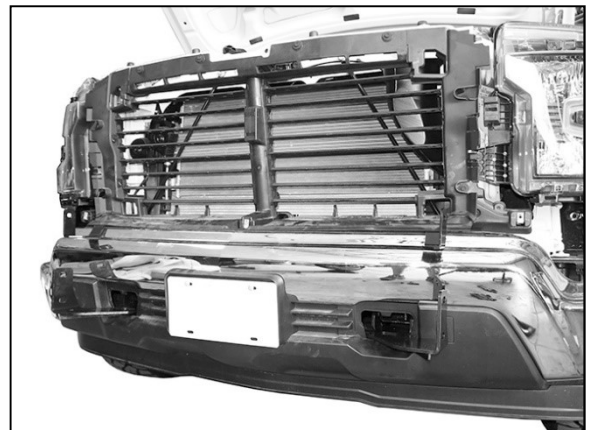
(Fig 20) 2022-on model, remove fascia body panel from top of bumper and remove grille



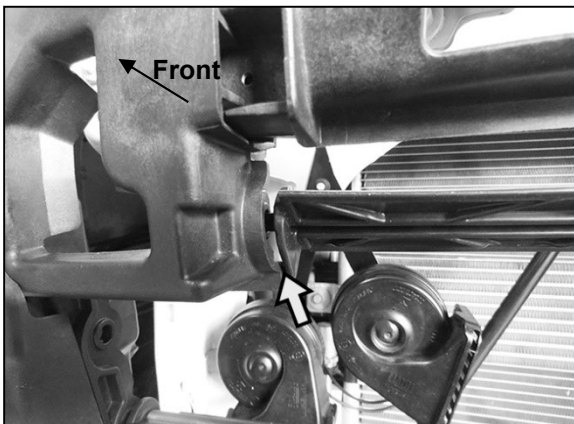
(Fig 21) Apply Foam Tape to bottom of 2022-on Driver/left Support Bracket



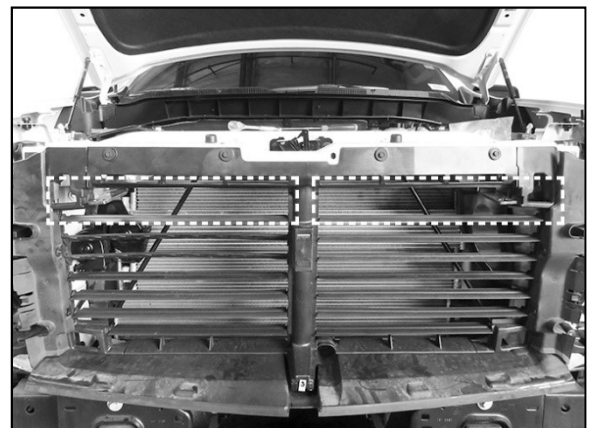
(Fig 22) 2022-on model, reuse hex bolt to attach driver/left Support Bracket to top of bumper bracket



(Fig 23) 2022-on model, Frame Mounting and Support Brackets installed without tow hooks

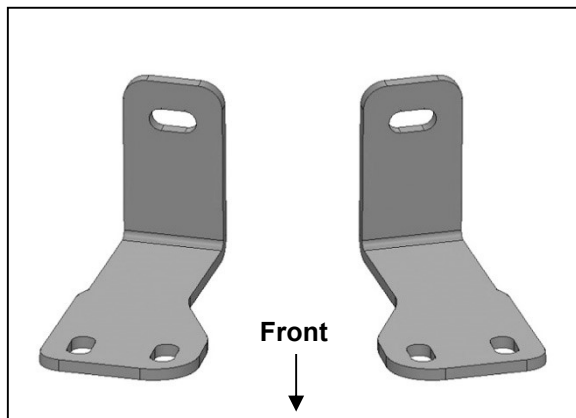


(Fig 24) 2022-on model, use a pry tool to “pop” out the upper blades from the shutter assembly (passenger/right side pictured)

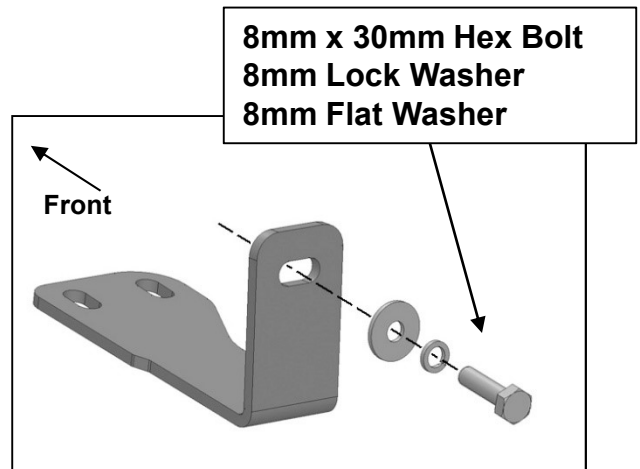


(Fig 25) 2022-on model, remove the upper blades from the shutter assembly

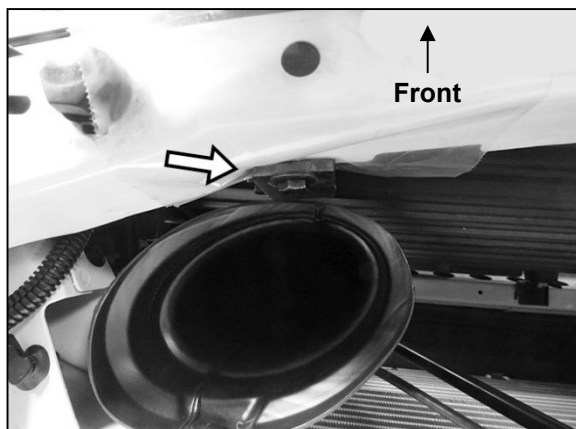
INSTALLATION PROCEDURE IMAGES:



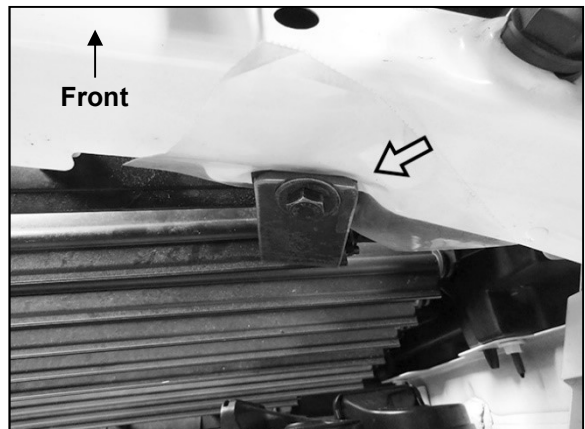
(Fig 26) 2022-on model, Inner Top Mounting Brackets illustrated



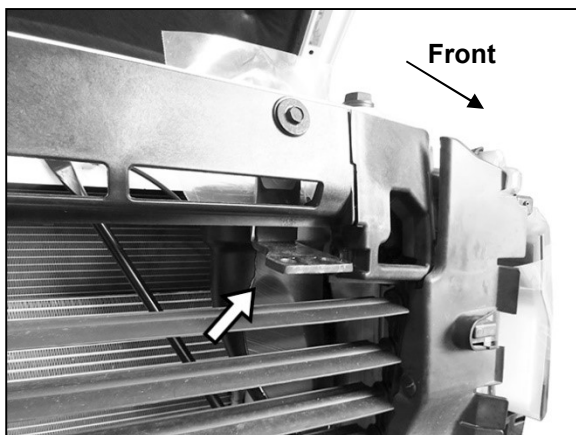
(Fig 27) 2022-on model, attach driver/left Inner Top Bracket to back of radiator core support



(Fig 28) 2022-on model, attach driver/left Inner Top Bracket to back of core support



(Fig 29) 2022-on model, attach passenger/right Inner Top Bracket to back of core support

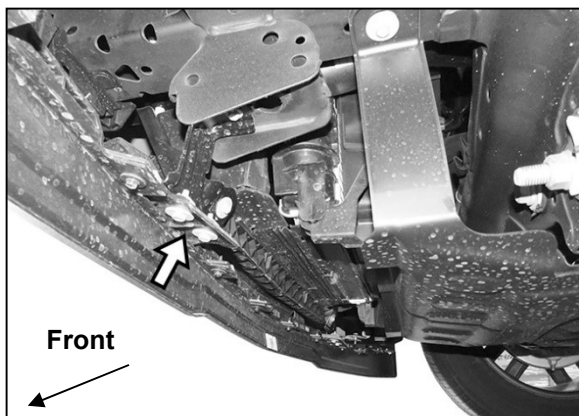


(Fig 30) 2022-on model, attach driver/left Inner Top Bracket to back of core support

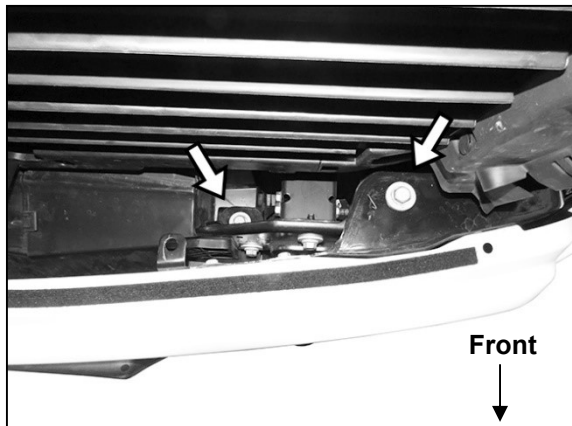


(Fig 31) 2022-on model bumper removal for tow hook reinstallation. Remove outer bumper supports (arrow). Driver/left side pictured.

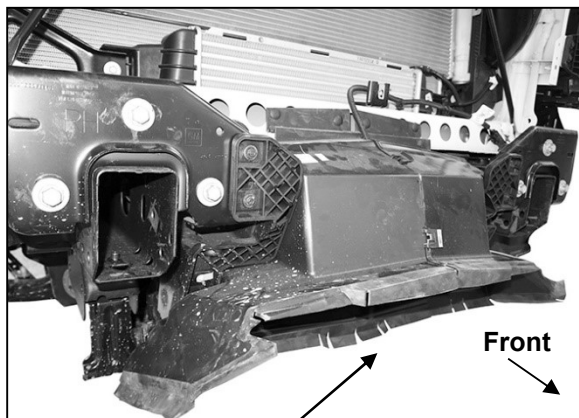
INSTALLATION PROCEDURE IMAGES:



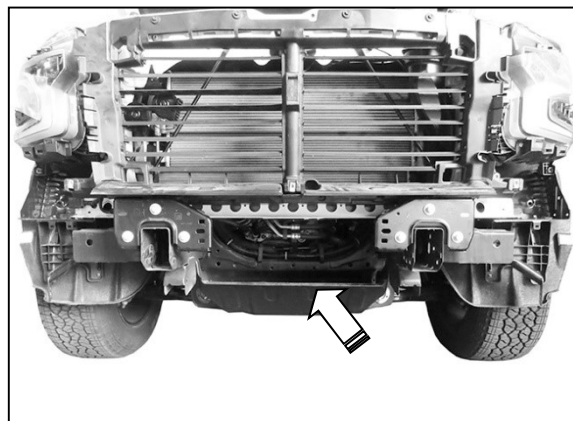
(Fig 32) 2022-on model tow hook reinstallation, remove hardware attaching bottom of bumper to driver/left side bracket (arrow)



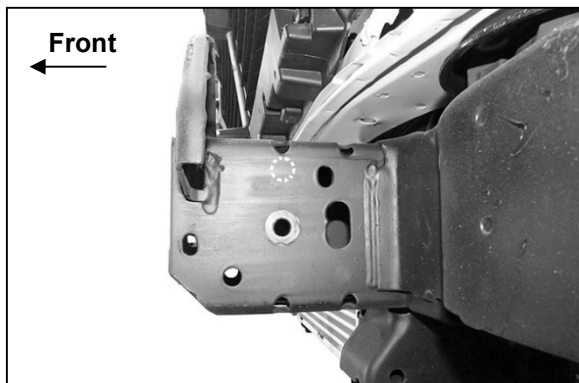
(Fig 33) 2022-on model tow hook reinstallation, remove hex bolts attaching bumper bracket and remove bumper



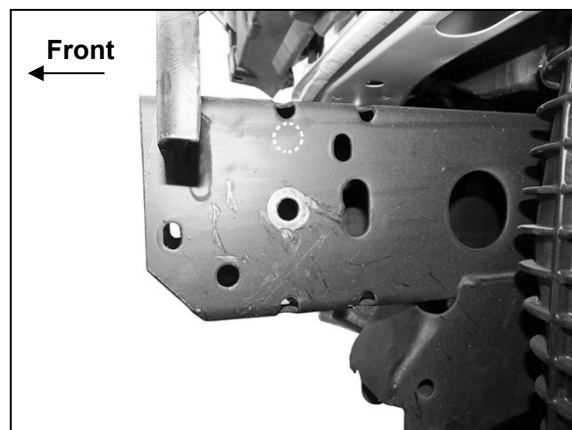
(Fig 34) 2022-on model tow hook reinstallation. Models with intercooler (turbo gas or diesel engines) must unplug and remove shroud and shutter assembly



(Fig 35) 2022-on model tow hook reinstallation. Remove bumper, outer shroud and inner shutter assembly

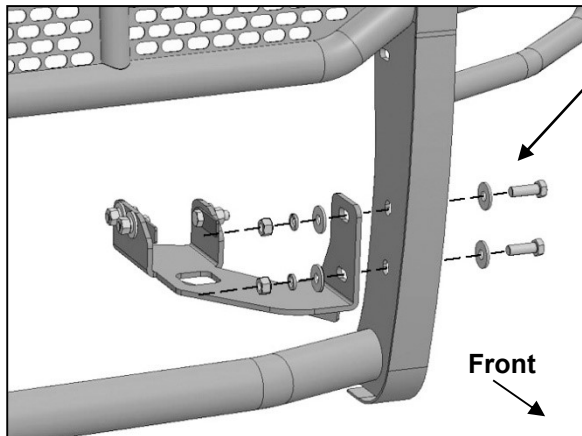


(Fig 36) 2022-on model tow hook reinstallation, use a 1/2" drill bit to drill a new mounting hole. Driver/left outer side of frame pictured



(Fig 37) 2022-on model tow hook reinstallation, use a 1/2" drill bit to drill a mounting hole. Passenger/right inner side of frame pictured

INSTALLATION PROCEDURE IMAGES:



(Fig 38) Attach Grille Guard to Frame Brackets

(2) 12mm x 35mm Hex Bolts
(4) 12mm Flat Washers
(2) 12mm Lock Washers
(2) 12mm Hex Nuts

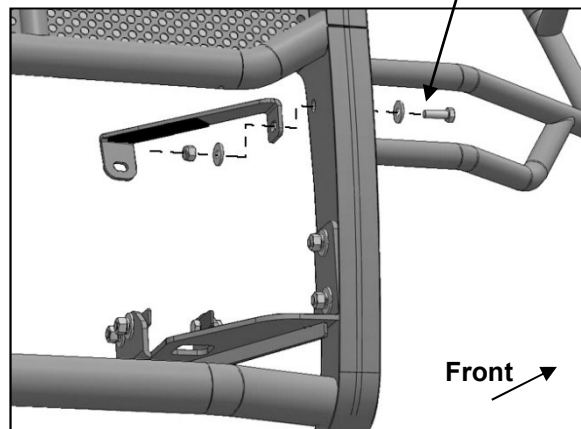


(Fig 39) Attach Grille Guard to Frame Brackets. Model without tow hook pictured

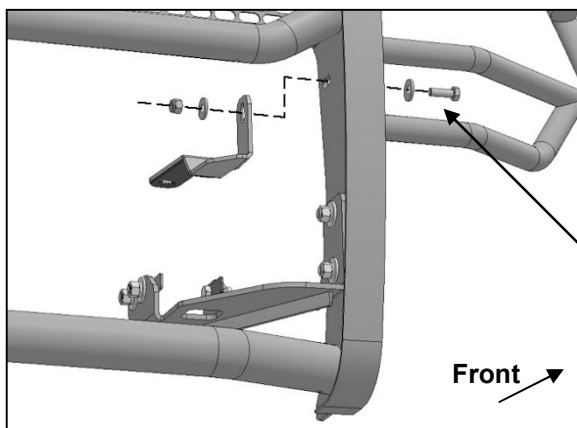


(Fig 40) Attach Grille Guard to Frame Brackets. Model with relocated tow hook pictured

10mm x 30mm Hex Bolt
(2) 10mm Flat Washers
10mm Nylon Lock Nut



(Fig 41) Attach Grille Guard to 2019-21 model driver/left side Top Bracket



(Fig 42) Attach Grille Guard to 2022-on model driver/left side Top Bracket

10mm x 30mm Hex Bolt
(2) 10mm Flat Washers
10mm Nylon Lock Nut

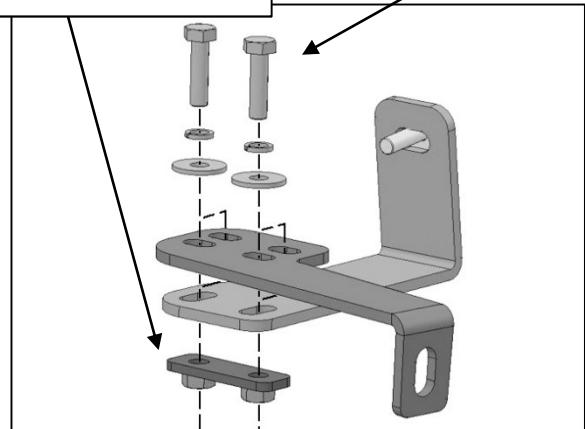
INSTALLATION PROCEDURE IMAGES:



(Fig 43) Attach Grille Guard to driver/left side Brackets. 2022-on model pictured

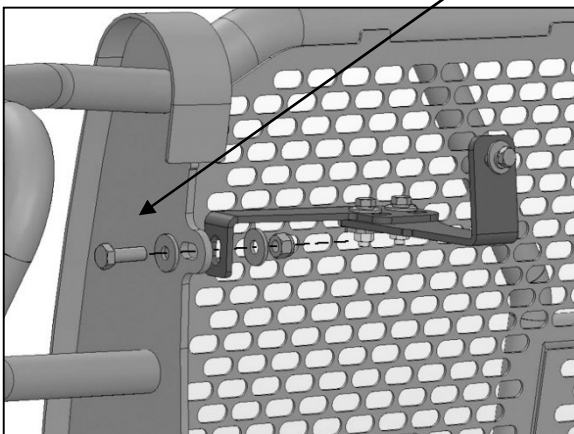
8mm Double Nut Plate

- (2) 8mm x 30mm Hex Bolts
- (2) 8mm Lock Washers
- (2) 8mm Flat Washers

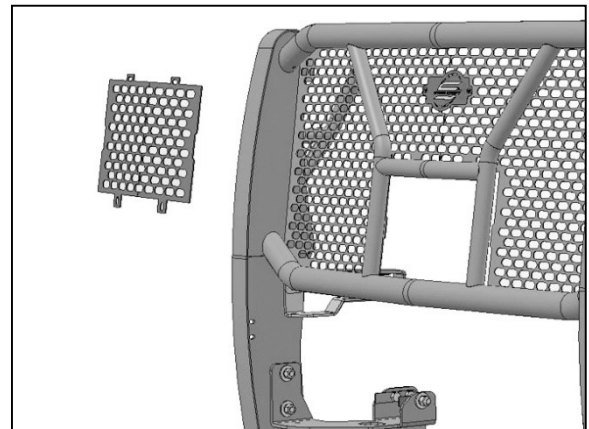


(Fig 44) On 2022-on models, attach Outer Top Bracket to Inner Top Bracket driver/left side Brackets illustrated

- 10mm x 30mm Hex Bolt
- (2) 10mm Flat Washers
- 10mm Nylon Lock Nut



(Fig 45) On 2022-on models, attach Outer Top Bracket to Grille Guard. Driver/left side Brackets illustrated



(Fig 46) On models equipped with grille mounted camera, remove center grille panel



Complete Installation

PRODUCT CARE:

- Periodically check the product to ensure all fasteners are tight and components are intact.
- 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 Black finish product.

FAQ'S

- **Hardware and mounting brackets are not aligning properly**
 - Ensure that hardware is being used on the correct side of the vehicle. In some cases, the hardware may appear same for driver or passenger side but may alter the alignment of mounting location. Check mounting brackets for both sides.
- **Products are thumping / rattling after installation**
 - Ensure that all required mounting brackets / hardware's are installed & tighten correctly. Suggest using white lithium / regular grease between metal-to-metal contact.
- **Missing / Excess Hardware**
 - Recheck hardware count as per the part list.
- **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.
- **Who should be contacted for questions regarding product / installation assistance?**
 - www.trailfx.com / support@trailfx.com 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.