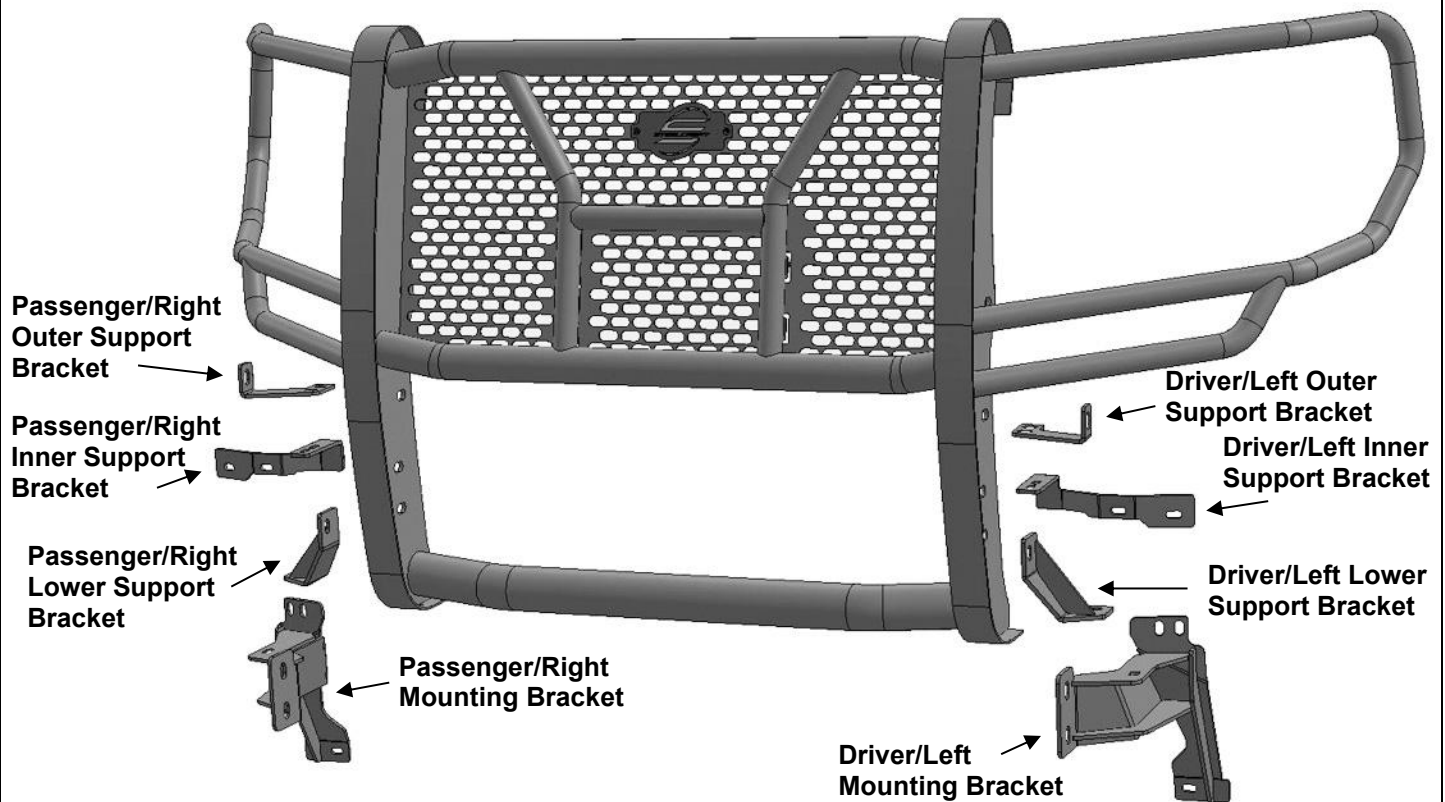


PARTS LIST:

1	Heavy Duty Grille Guard		
1	Driver/Left Mounting Bracket	10	10-1.5mm x 35mm Hex Bolts
1	Passenger/Right Mounting Bracket	16	10mm x 27mm x 3mm Flat Washers
1	Driver/Left Lower Support Bracket	4	10mm x 20mm x 2mm Flat Washers
1	Passenger/Right Lower Support Bracket	10	10mm Nylon Lock Nuts
1	Driver/Left Top Inner Support Bracket	6	8-1.25mm x 25mm Hex Bolts
1	Passenger/Right Top Inner Support Bracket	12	8mm x 22mm x 2mm Large Flat Washers
1	Driver/Left Top Outer Support Bracket	6	8mm Nylon Lock Nuts
1	Passenger/Right Top Outer Support Bracket	2	6-1.0mm x 25mm Hex Bolts
4	12-1.75mm x 40mm Hex Bolts	2	6mm Lock Washers
8	12mm x 32mm x 3mm Flat Washers	2	6mm x 18mm x 1.6mm Flat Washers
4	12mm Nylon Lock Nuts	1	4mm Wrench



PROCEDURE:

REMOVE CONTENTS FROM BOX. SOME PARTS ARE SMALL AND WILL BE HIDDEN IN WRAPPINGS. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. CUTTING IS REQUIRED. INSTALLATION MAY INTERFERE WITH BUMPER MOUNTED PARKING SENSORS AND CAMERA. ASSISTANCE IS RECOMMENDED.

1. Starting at the front of the vehicle, open the hood and remove the bolts from the top of the plastic bumper cover, **(Figure 1)**. Release the (2) clips from the top of the cover, **(Figure 2)**.
2. Move to the driver/left front wheel opening. Remove the hardware attaching the fender liner to the bumper cover and end of front fender, **(Figure 3)**.
3. Remove the screws attaching the bottom of the bumper cover to the fender liner, **(Figure 4)**.
4. Pull back the fender liner. From inside the wheel well, locate and remove the (3) bolts attaching the bumper to the end of the fender, **(Figure 5)**. Squeeze the plastic clip to release the end of the bumper cover.
5. Remove the hardware attaching the bottom of the bumper to the vehicle, **(Figure 6)**.

6. Move to the passenger/right side of the vehicle. Repeat **Steps 2—4** to release the fender liner, (**Figure 7**). Pull back the liner and unplug all wiring harnesses leading to the front bumper cover, (**Figure 8**). Repeat **Steps 2 & 3** to release the end of the bumper cover.
7. With assistance, pull the ends of the bumper cover to release from clips and carefully remove the front bumper and grille as an assembly from the front of the vehicle, (**Figure 9**). Models with grille mounted camera, unplug camera harness. Place the bumper on a soft, clean surface.
8. Models with tow hooks, remove both tow hooks. **NOTE:** Tow hooks will not be reinstalled.
9. Remove the inner flange nut from passenger/right end of the lower crossmember, (**Figure 10**). Select the driver/left Mounting Bracket, (**Figure 11**). Attach the top of the Bracket directly to the outside of the mounting tab on the bottom of the impact bumper with (2) 10mm x 35mm Hex Bolts, (2) 10mm x 20mm Small Flat Washers, (2) 10mm x 27mm Large Flat Washers and (2) 10mm Nylon Lock Nuts, (**Figure 11**). Reuse the factory flange nut to attach the bottom of the Mounting Bracket to the inner end of the lower crossmember, (**Figure 12**). Repeat this **Step** to attach the driver/left Mounting Bracket. Do not fully tighten hardware.
10. Move up to the top of the crossbar. Locate and remove the bolt from the side of the plastic scoop on the crossbar, (**Figure 10**). Select the passenger/right Inner Support Bracket, (**Figure 13**). Attach the Inner Support Bracket to the crossbar with (1) 6mm x 25mm Hex Bolt, (1) 6mm Lock Washer and (1) 6mm Flat Washer. Attach the outer end of the Support Bracket to the hole in the crossbar with the included (1) 8mm x 25mm Hex Bolt, (2) 8mm Flat Washers and (1) 8mm Nylon Lock Nut, (**Figures 13 & 14**). Do not fully tighten hardware.
11. Repeat **Steps 9 & 10** to attach the driver/left lower Mounting Bracket and Top Inner Support Bracket.
12. Determine if vehicle is equipped with tow hooks.

Models with tow hooks:

- a. Hold the bumper cover up in place to check for clearance around the lower Mounting Brackets, trim openings as necessary but do not reinstall cover at this time. Remove bumper cover.

Models without tow hooks:

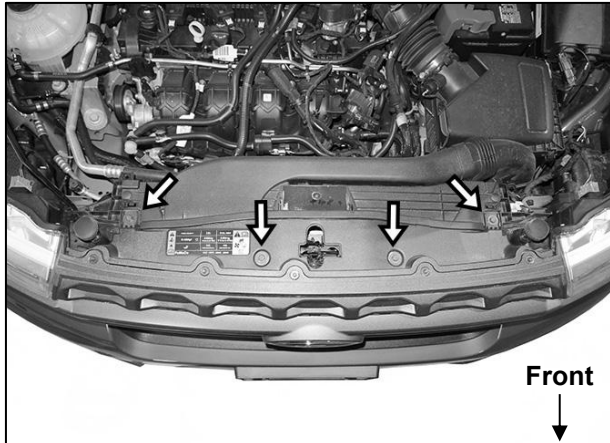
- b. Move to the passenger/right pocket next to the lower radiator opening in the bumper cover, (**Figure 15**). Use removable tape to cover the pocket.
- c. Mark a 3" square onto the inner edge of the pocket, (**Figure 15**). Repeat this **Step** to mark the driver/left pocket. **NOTE:** Measurements are given as a starting location reference only. For best results, use a sharp knife or hacksaw blade to carefully cut the slots to clear the Brackets. Start with a small slot smaller than the Brackets and slowly enlarge the slot to clear the Brackets.
- d. Hold the bumper cover up in place to check for clearance around the lower Mounting Brackets, trim openings as necessary but do not reinstall cover at this time, (**Figure 19**).
- e. Remove bumper cover.
13. Select the passenger/right Top Outer Support Bracket, (**Figure 16**). Attach the Outer Bracket to the Inner Bracket with (2) 8mm x 25mm Hex Bolts, (4) 8mm Flat Washers and (2) 8mm Nylon Lock Nuts. Do not tighten hardware. Repeat this **Step** to attach the driver/left Top Outer Support Bracket.
14. Attach the Grille Guard to the lower Mounting Brackets with (4) 12mm x 40mm Hex Bolts, (8) 12mm Flat Washers and (4) 12mm Nylon Lock Nuts, (**Figure 17**). Do not tighten hardware.
15. Attach the Top Outer Support Bracket to the inside of the Grille Guard with (1) 10mm x 35mm Hex Bolt, (2) 10mm Large Flat Washers and (1) 10mm Nylon Lock Nut, (**Figure 18**). Do not tighten hardware. Repeat this **Step** to attach the passenger/right Top Outer Support Bracket.
16. Level the Grille Guard to the vehicle and tighten **ONLY** the lower Mounting and Inner Support Bracket to vehicle hardware.
17. Temporarily remove the Grille Guard from the Brackets. Reattach the bumper cover after it has been trimmed to clear the Brackets, (**Figure 19**). Plug in wiring harness. **NOTE:** For vehicles equipped with grilles that have angled slats, the lower corner slat may interfere with the support bracket. Trim the lower corner slat in the area shown to provide clearance for the support bracket to pass through properly, (**Figure 20**).
18. Reattach the Top Outer Brackets and Grille Guard and fully tighten all hardware, (**Figures 21 & 22**).
19. Select the passenger/right Lower Support Bracket, (**Figure 23**). Attach the Bracket to the top of the Mounting Bracket and side of the Grille Guard with (2) 10mm x 35mm Hex Bolts, (4) 10mm Large Flat

Washers and (2) 10mm Nylon Lock Nut, **(Figure 24)**. Repeat this **Step** to attach the driver/left Lower Support Bracket.

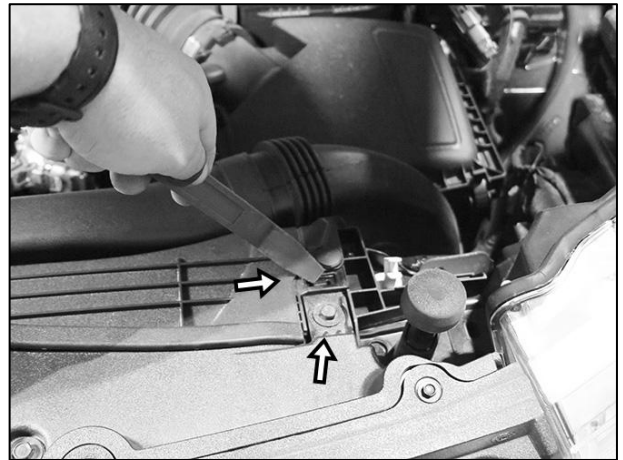
20. Models with grille mounted camera, remove the center section from the Grille Guard, **(Figure 25)**.

21. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

To protect your investment, 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 Heavy Duty Grille Guard.



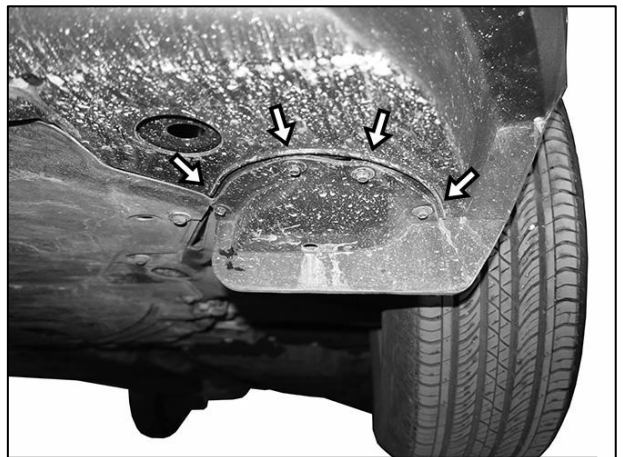
(Fig 1) Remove the hardware attaching the top of the grille (arrows)



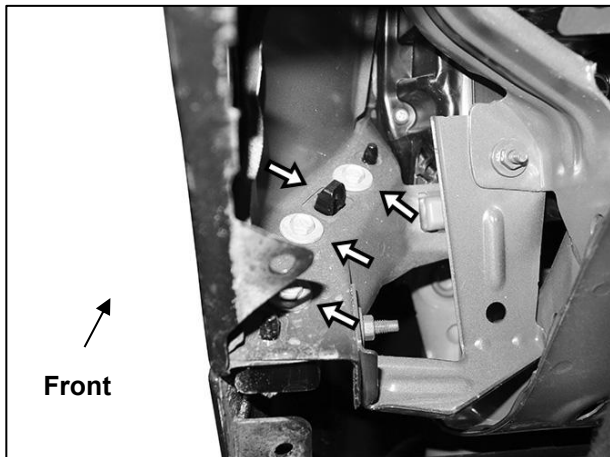
(Fig 2) Remove the hex bolts attaching the top of the grille. Use a flat blade screwdriver to release the clip (arrows)



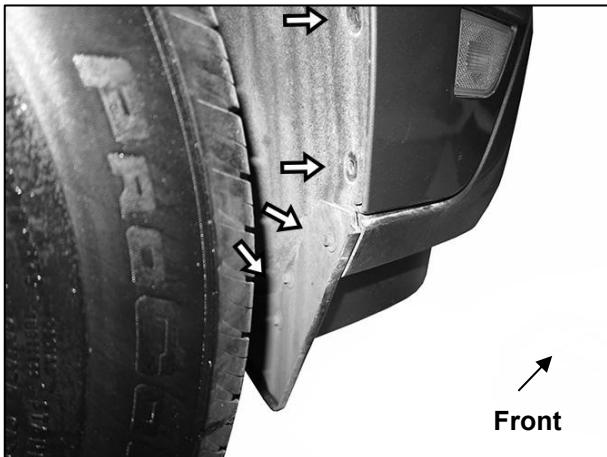
(Fig 3) Remove the screws/clips attaching the fender liner to the bumper and end of fender (driver/left side pictured)



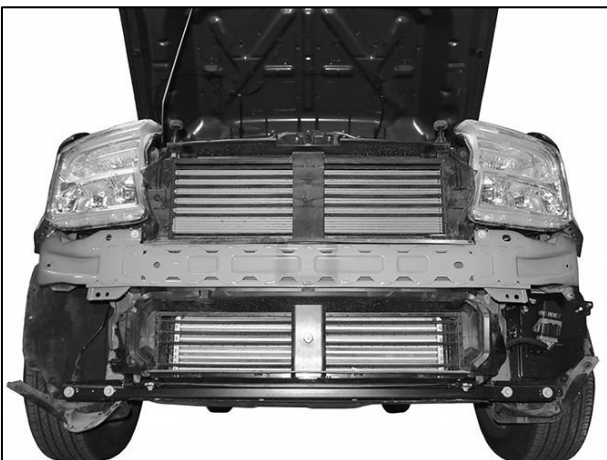
(Fig 4) Remove screws attaching bottom of bumper cover to inner liner (arrows)



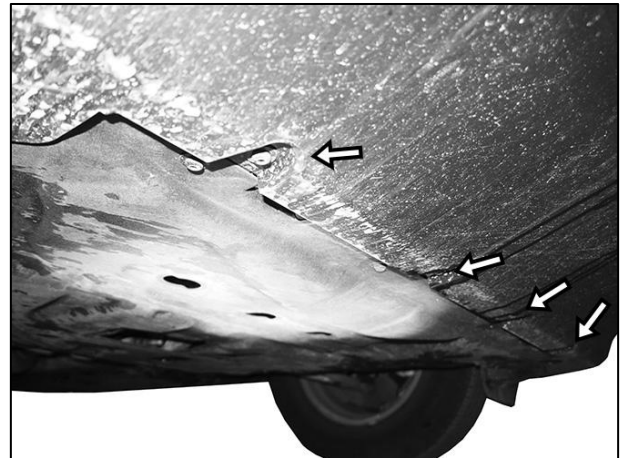
(Fig 5) Pull back driver/left side liner to remove the (3) hex bolts and release the clip (arrows)



(Fig 7) Remove the screws/clips attaching the fender liner to the bumper and end of fender (passenger/right side pictured)



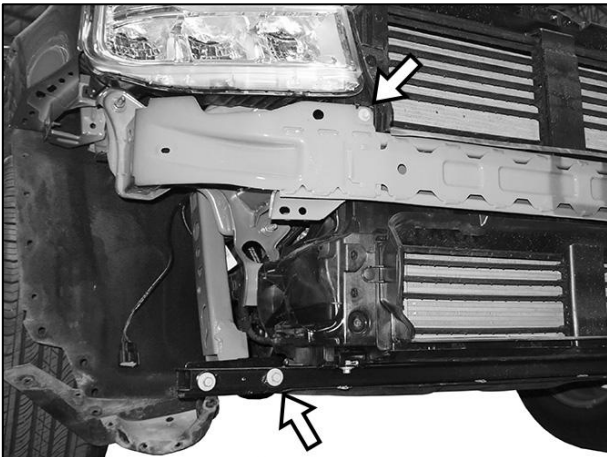
(Fig 9) Carefully remove the bumper cover assembly and place it on a clean, soft surface



(Fig 6) Remove screws attaching bottom of bumper to crossmember (arrows)



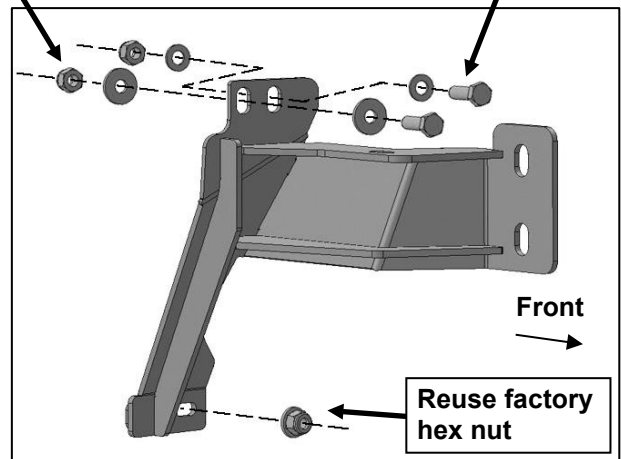
(Fig 8) Pull back liner and unplug the wiring harness leading to the front bumper (passenger/right side pictured). Remove hex bolts attaching bumper to fender (see Fig 5)



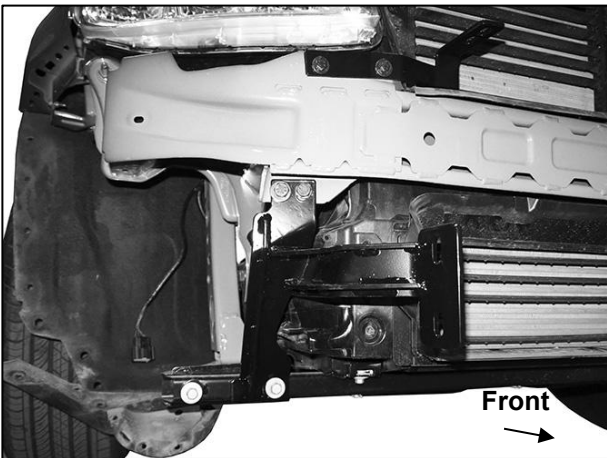
(Fig 10) Temporarily remove the inner nut from the lower crossmember (arrow). Passenger/right side pictured

- (1) 10mm x 35mm Hex Bolt
- (2) 10mm x 27mm Large Flat Washers
- (1) 10mm Nylon Lock Nut

- (1) 10mm x 35mm Hex Bolt
- (2) 10mm x 20mm Small Flat Washers
- (1) 10mm Nylon Lock Nut



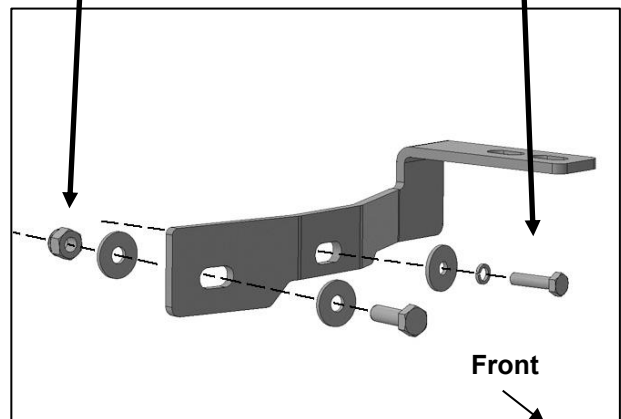
(Fig 11) Attach passenger/right Mounting Bracket to mounting tab and crossmember. Reuse the factory hex nut to attach the bottom of the Bracket to the crossmember



(Fig 12) Passenger/right Mounting Bracket attached to mounting tab and crossmember

- (1) 8mm x 25mm Hex Bolt
- (2) 8mm Flat Washers
- (1) 8mm Nylon Lock Nut

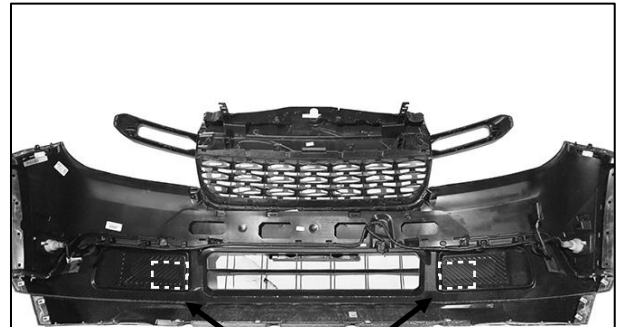
- (1) 6mm x 25mm Hex Bolt
- (1) 6mm Lock Washer
- (1) 6mm Flat Washer



(Fig 13) Attach the passenger/right Top Inner Support Bracket to the crossbar



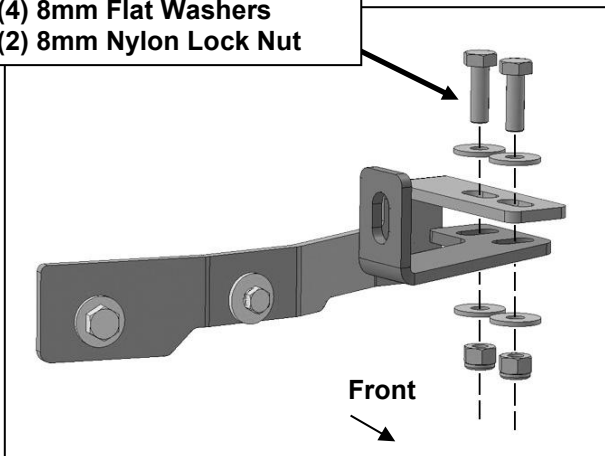
(Fig 14) Passenger/right Top Inner Support Bracket attached to crossbar



Start with 3" x 3" square
and trim larger as necessary

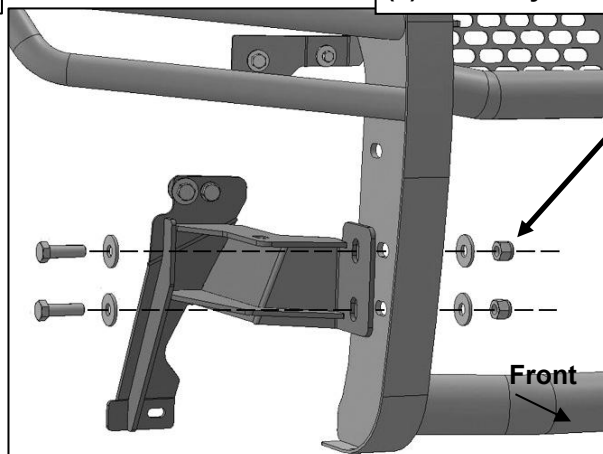
(Fig 15) From behind the bumper mark the indicated area with tape. Use a hacksaw or sharp knife to make small cuts to clear Brackets

- (2) 8mm x 25mm Hex Bolts
- (4) 8mm Flat Washers
- (2) 8mm Nylon Lock Nut



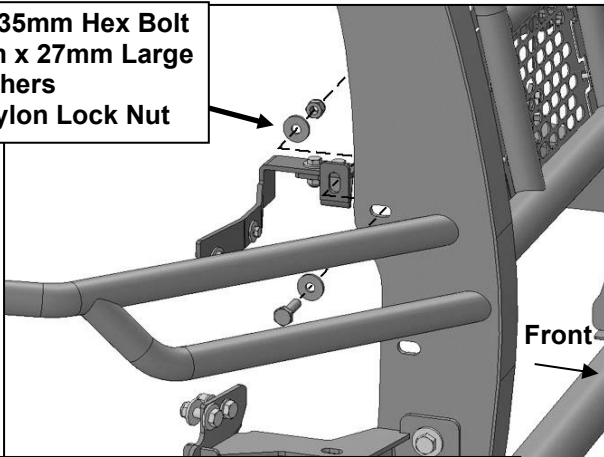
(Fig 16) Temporarily attach the Top Outer Support Bracket to the bottom of the Inner Support Bracket

- (2) 12mm x 40mm Hex Bolts
- (4) 12mm Flat Washers
- (2) 12mm Nylon Lock Nuts

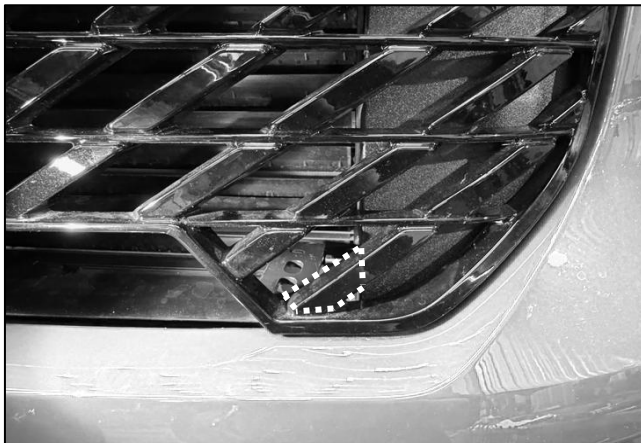


(Fig 17) Temporarily attach the Grille Guard to the Mounting Brackets

10mm x 35mm Hex Bolt
(2) 10mm x 27mm Large
Flat Washers
10mm Nylon Lock Nut



(Fig 18) Temporarily attach the Top Support Brackets to the inside of the Grille Guard Level and align the Grille Guard to the vehicle and tighten ONLY the lower Mounting and Inner Support Bracket to vehicle hardware.



(Fig 20) For grilles with angled slats, trim the lower corner slat to allow the support bracket to pass through



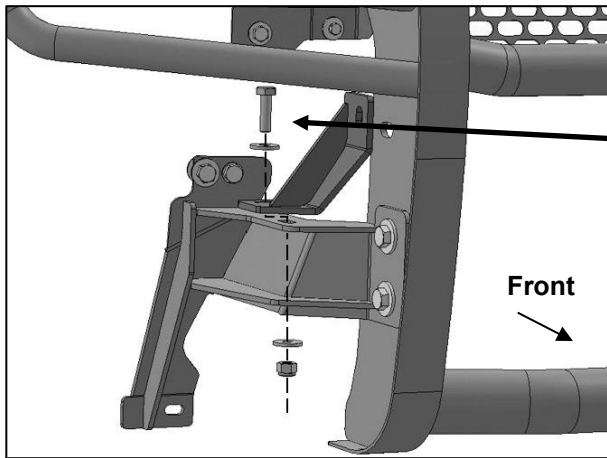
(Fig 22) Reattach the Grille Guard and tighten all hardware (passenger/right side pictured)



(Fig 19) Temporarily remove the Grille Guard from the Brackets. Reattach the bumper cover after it has been trimmed to clear the Brackets. Plug in wiring harness.

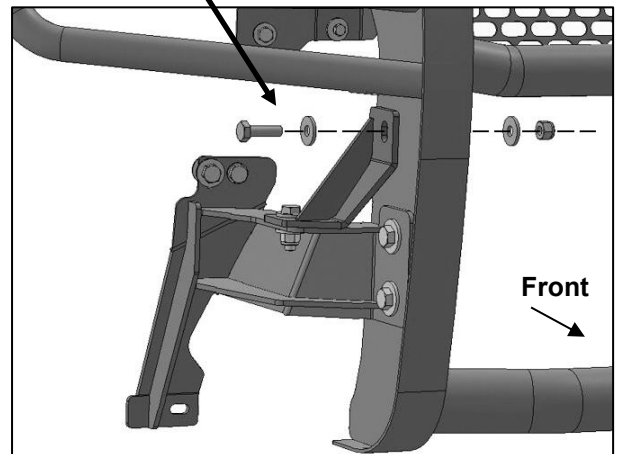


(Fig 21) Reattach the Top Outer Support Brackets (passenger/right side pictured)

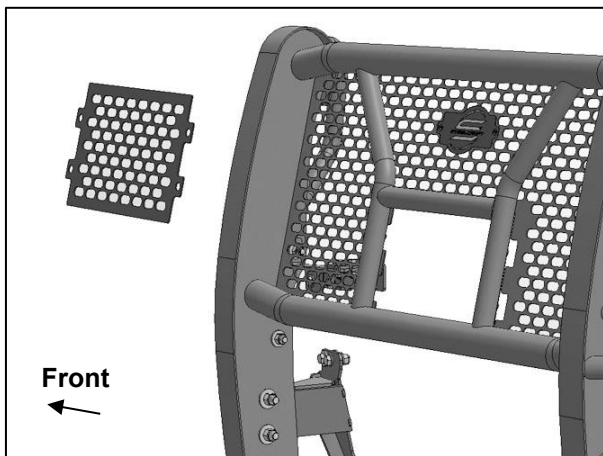


10mm x 35mm Hex Bolt
(2) 10mm x 27mm Large
Flat Washers
10mm Nylon Lock Nut

(Fig 23) Attach the passenger/right Lower Support Bracket to the top of the Mounting Bracket



(Fig 24) Attach the passenger/right Lower Support Bracket to the outside of the Grille Guard



(Fig 25) Models with grille mounted camera, remove screen from Grille Guard

