



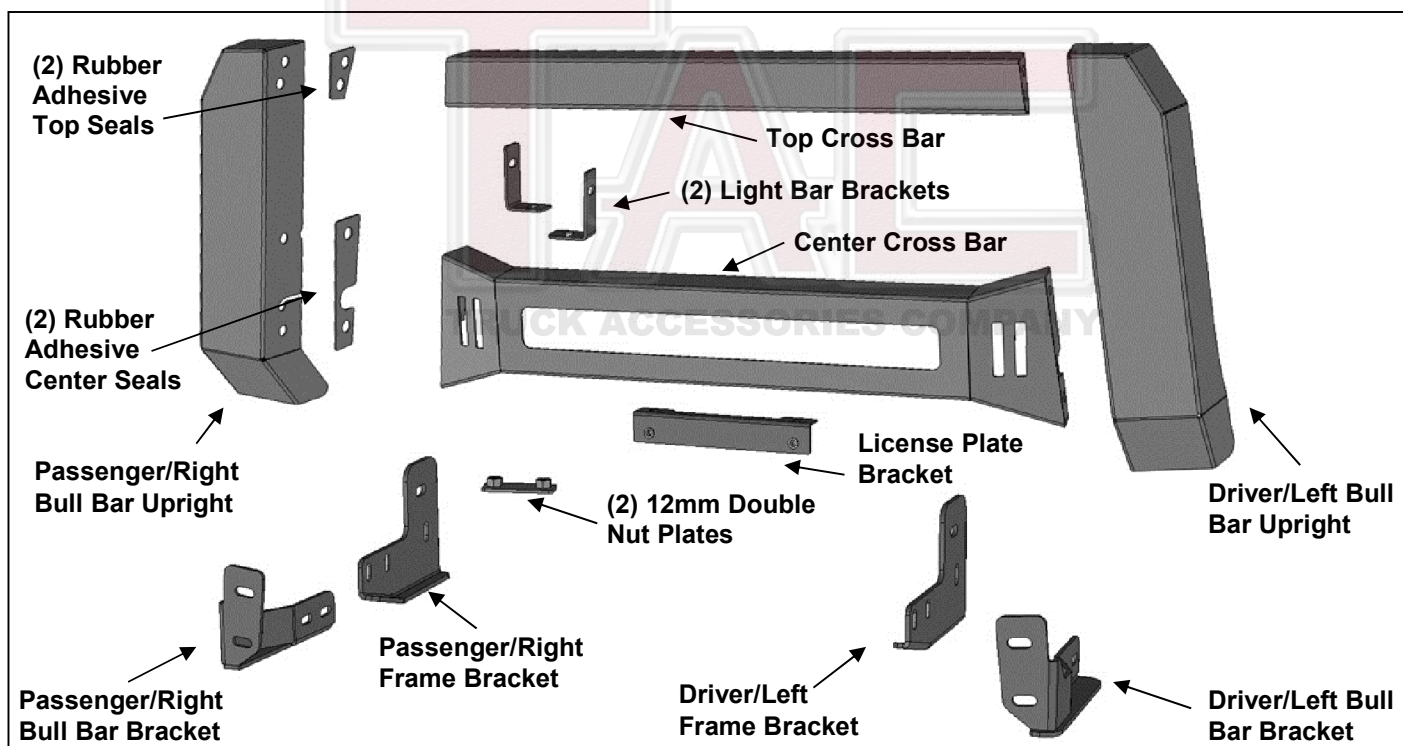
INSTALLATION INSTRUCTIONS
MESH EC1 MODULAR BULL BAR FOR
10-18 JEEP WRANGLER
PART#EC1-J103TM

TRUCK ACCESSORIES COMPANY

**EC1 MODULAR BULL BAR
2010-18 JEEP WRANGLER**

PARTS LIST:

1	Driver/Left Side Bull Bar Upright	12	10-1.5mm x 25mm Hex Bolts
1	Passenger/Right Side Bull Bar Upright	12	10mm x 30mm x 2.5mm Flat Washers
1	Top Cross Bar	16	10mm x 20mm x 2mm Flat Washers
1	Center Cross Bar	12	10mm Lock Washers
1	Driver/Left Side Frame Bracket	8	10-1.5mm Hex Nuts
1	Passenger/Right Side Frame Bracket	4	10-1.5mm Nylon Lock Nuts
1	Driver/Left Side Bull Bar Bracket	2	8-1.25mm x 16mm Hex Bolts
1	Passenger/Right Side Bull Bar Bracket	4	8-1.25mm x 25mm Hex Bolts
1	Mesh Fill Plate	8	8mm x 24mm x 2mm Flat Washers
2	Light Bar Brackets	4	8mm Lock Washers
1	License Plate Bracket	4	8-1.25mm Hex Nuts
2	Black Rubber Self-Adhesive Top Seal	2	6-1.0mm x 20mm Button Head Combo Bolts
2	Black Rubber Self-Adhesive Center Seal	2	6-1.0mm x 20mm Button Head Bolts
2	12-1.75mm Double Nut Plate	4	6mm x 18mm x 1.6mm Flat Washers
4	12-1.75mm x 30mm Hex Bolts	2	6mm Lock Washers
4	12mm x 24mm x 2.5mm Flat Washers	2	6mm Hex Nuts
4	12mm Lock Washers	1	4mm Allen Wrench
4	10-1.5mm x 35mm Hex Bolts		



PROCEDURE:

- 1. REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY. CUTTING IS REQUIRED. ASSISTANCE IS RECOMMENDED.**
- Remove the plastic splash guard from under the front bumper and place it on a clean, stable work surface, (**Figure 1**). On models with steel skid plate, skid plate must be removed and cannot be reinstalled.

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3. Starting on the driver side, insert (1) 12mm Double Nut Plate, **(Figure 2)**, into the opening in the end of the frame cross-member. Line up the (2) holes in the Nut Plate with the (2) holes in the frame.
4. Select the driver side Frame Bracket, **(Figure 3)**. Insert (2) 12mm x 30mm Hex Bolts, (2) 12mm Lock Washers and (2) 12mm Flat Washers through the (2) rear slots in the Bracket, the cross-member and into the Double Nut Plate, **(Figures 3 & 4)**. Leave hardware loose at this time.
5. Select driver side Bull Bar Bracket, **(Figure 5)**. Attach the Bull Bar Bracket to the outside of the Frame Bracket with the included (2) 10mm x 35mm Hex Bolts, (4) 10mm x 30mm Flat Washers, (2) 10mm Lock Washers and (2) 10mm Hex Nuts, **(Figure 6)**. Do not tighten hardware at this time.
6. Repeat **Steps 3—5** for passenger side Frame and Bull Bar Bracket installation.
7. Select the driver/left Bull Bar Upright and the Top Cross Bar, **(Figure 7)**. Insert (1) Black Rubber Self-Adhesive Top Seal between the Upright and Top Cross Bar. Attach the Cross Bar to the Upright with the included (2) 10mm x 25mm Hex Bolts, (4) 10mm x 20mm Flat Washers, (2) 10mm Lock Washers and (2) 10mm Hex Nuts, **(Figure 7)**. Do not fully tighten hardware.
8. Select the Center Cross Bar, **(Figure 7)**. Attach the longer Black Rubber Self-Adhesive Center Seal between the Upright and the Center Cross Bar. Repeat **Step 7** to attach the Center Cross Bar to the Upright, **(Figure 7)**. Do not fully tighten hardware.
9. Repeat **Steps 7 & 8** to attach the passenger side Upright to the Top Cross Bar and Center Cross Bar. Place assembled Bull Bar face down on a clean flat surface and fully tighten Bull Bar assembly hardware only at this time.
10. Relocation of front license plate may be necessary.
 - a. Attach the License Plate Bracket to bottom of Center Cross Bar with (2) 6mm Button Head Bolts, (4) 6mm Flat Washers, (2) 6mm Lock Washers and (2) 6mm Hex Nuts, **(Figure 8)**.
 - b. Attach license plate to Bracket with (2) 6mm Button Head Combo Bolts, **(Figure 8)**.
11. LED light installation, (optional-light available separately).
 - a. Start at the driver/left side of the vehicle. Select (1) Light Bar Bracket. Attach the Bracket to the slot in the back of the Center Cross Bar with (1) 8mm x 25mm Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, **(Figure 9)**. **NOTE:** Check for clearance between the Hex Bolt and the bottom of the Light. If necessary, insert the Hex Bolts down through the Brackets then through slots in the Cross Bar. Leave hardware loose at this time.
 - b. Repeat the previous **Step** to attach the passenger/right Light Bracket.
 - c. If needed, use the included (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers to attach the LED light bar to the Brackets, **(Figure 9)**.
 - d. Follow light manufacturer's instructions to properly wire the light bar to the electrical system.
 - e. Proceed to **Step 13**.
12. Center Screen Fill Panel Installation, (cannot be installed with LED light).
 - a. Select (1) "L" Light Bar Bracket. Attach the Bracket to the outside of the tab on the Center Screen Fill Panel with (1) 8mm x 25mm Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, **(Figure 10)**. **NOTE:** Insert the Hex Bolt through the tab on the Panel and out through the Bracket. Repeat to attach the remaining Bracket to the other end of the Fill Panel. Leave hardware loose at this time.
 - b. Attach the Fill Panel with Brackets to the slots in the back of the Center Cross Bar with (2) 8mm x 25mm Hex Bolts, (4) 8mm 24mm Flat Washers, (2) 8mm Lock Washers and

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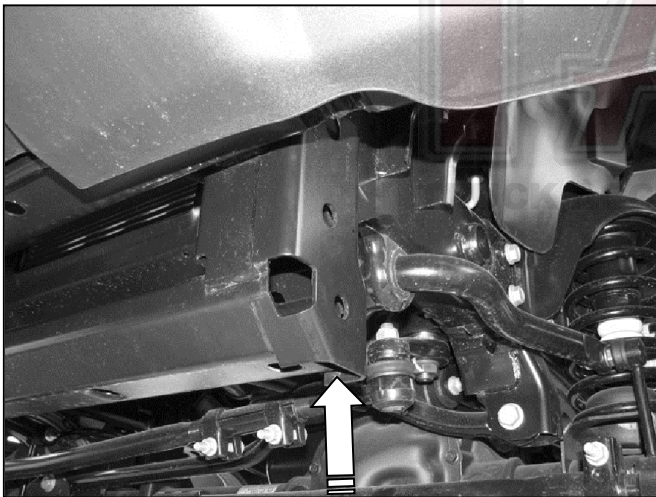
(2) 8mm Hex Nuts, **(Figure 10)**. **NOTE:** Insert the Hex Bolts up through the bottom of the Cross Bar and then through the Brackets.

c. Push the Fill Panel up tight against the inside of the opening and fully tighten hardware.

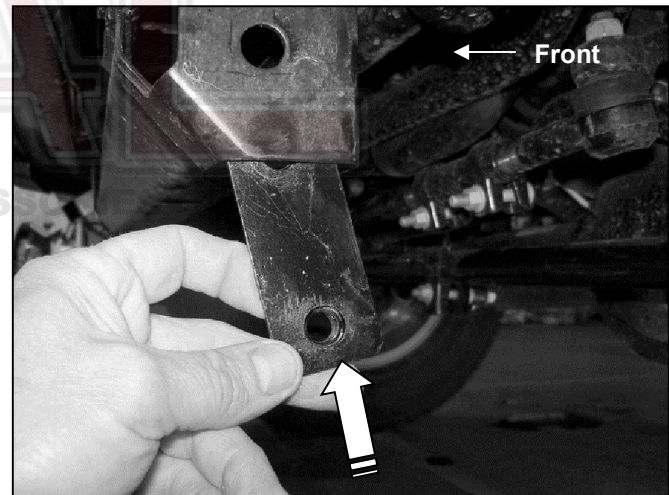
13. With assistance, position the assembled Bull Bar up to the Bull Bar Brackets. Use the included (4) 10mm x 25mm Hex Bolts, (4) 10mm Lock Washers and (4) 10mm x 30mm Flat Washers to attach the bottom (2) mounting holes on the Bull Bar to the Bull Bar Brackets, **(Figure 11 & 12)**. Do not tighten hardware at this time.
14. Align the Bull Bar properly and fully tighten the Frame Bracket hardware only. Temporarily remove the assembled Bull Bar with the Bull Bar Brackets attached.
15. Position the splash guard back up to the vehicle and attach with the factory hardware. Trace the location of the Brackets onto the splash guard, **(Figure 12)**. **NOTE:** To maintain the integrity of the plastic Splash Guard, remove only material necessary to clear the Bull Bar and Brackets. Make small cuts and check the fit often before final installation, **(Figure 13)**. After the appropriate cuts are made to the splash guard, reinstall the splash guard with factory hardware.
16. Reinstall the assembled Bull Bar with the Bull Bar Brackets and tighten all hardware.
17. Do periodic inspections to the installation to make sure 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 Bull Bar.

Driver Side Installation Pictured

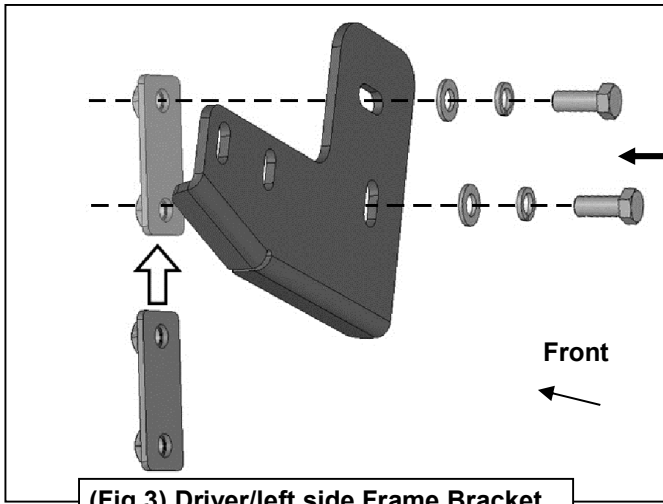


(Fig 1) Driver/left mounting location (arrow)



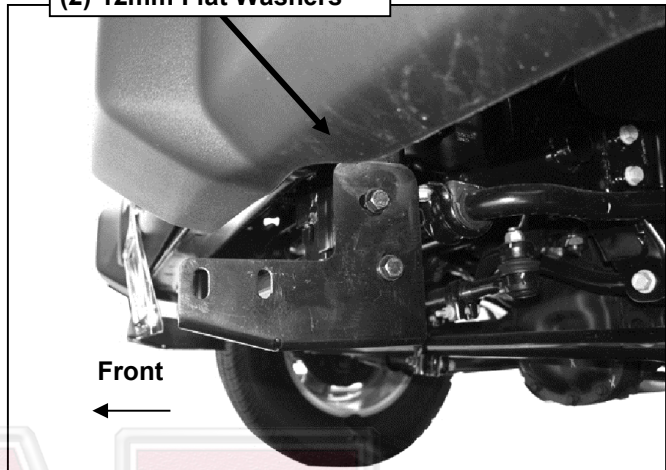
(Fig 2) Insert the 12mm Double Nut Plate into the opening in the end of the cross-member (arrow)

Driver Side Installation Pictured

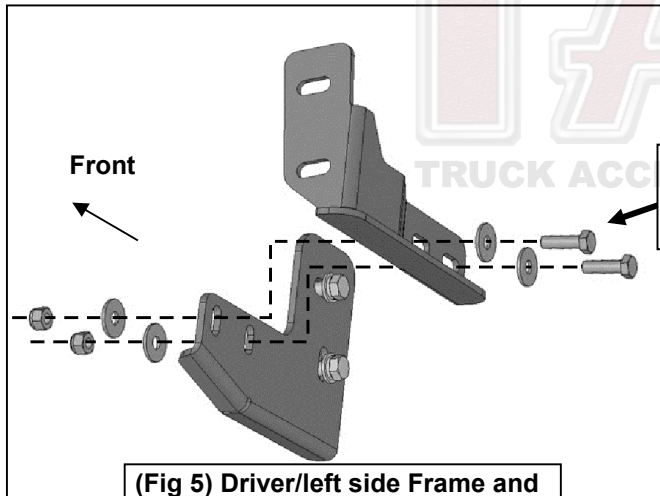


(Fig 3) Driver/left side Frame Bracket

- (2) 12mm Hex Bolts
- (2) 12mm Lock Washers
- (2) 12mm Flat Washers

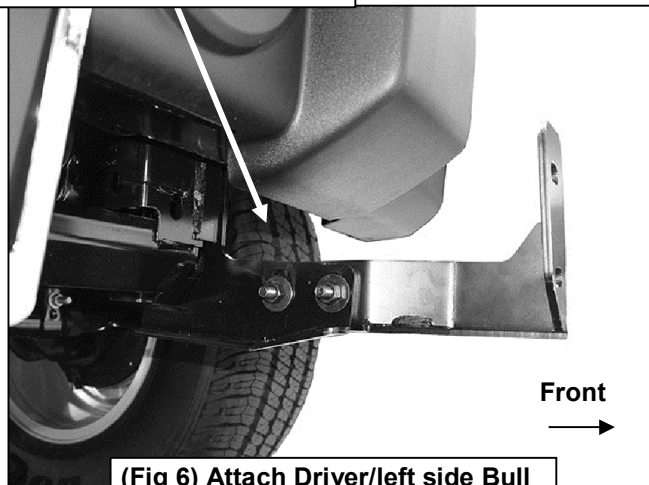


(Fig 4) Driver /left side Frame Bracket Installed



(Fig 5) Driver/left side Frame and Bull Bar Bracket assembly

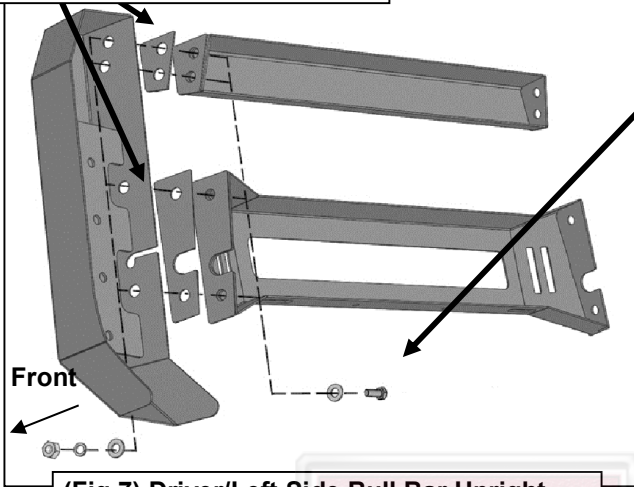
- (2) 10mm x 35mm Hex Bolts
- (4) 10mm x 30mm Flat Washer
- (2) 10mm Nylon Lock Nuts



(Fig 6) Attach Driver/left side Bull Bar Bracket to Frame Bracket

Driver Side Installation Pictured

Insert Adhesive Backed Rubber Seals between Uprights and Top and Center Cross Bars



- (4) 10mm x 25mm Hex Bolts
- (8) 10mm x 20mm Flat Washers
- (4) 10mm Lock Washers
- (4) 10mm Hex Nuts

(Fig 7) Driver/Left Side Bull Bar Upright attached to Top and Center Cross Bars

- (2) 6mm Button Head Bolts
- (4) 6mm Flat Washers
- (2) 6mm Lock Washers
- (2) 6mm Hex Nuts

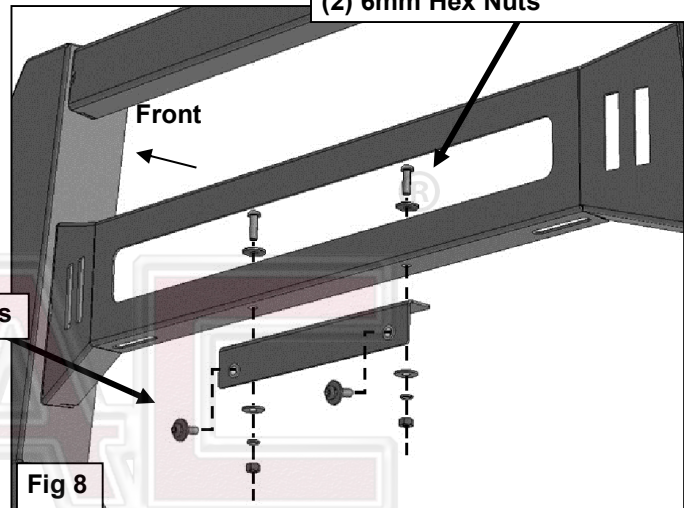
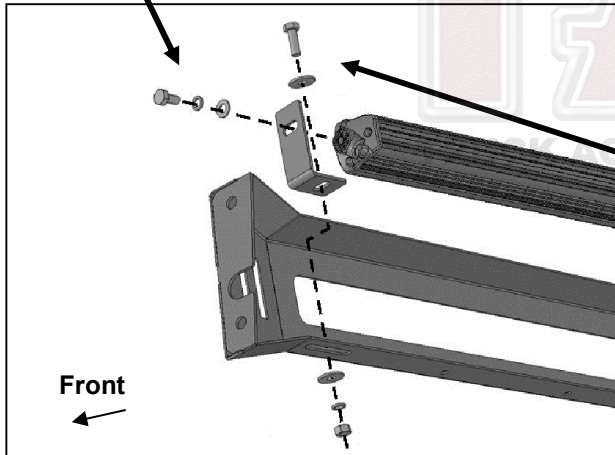


Fig 8

- 8mm x 16mm Hex Bolt
- 8mm Lock Washer
- 8mm Flat Washer

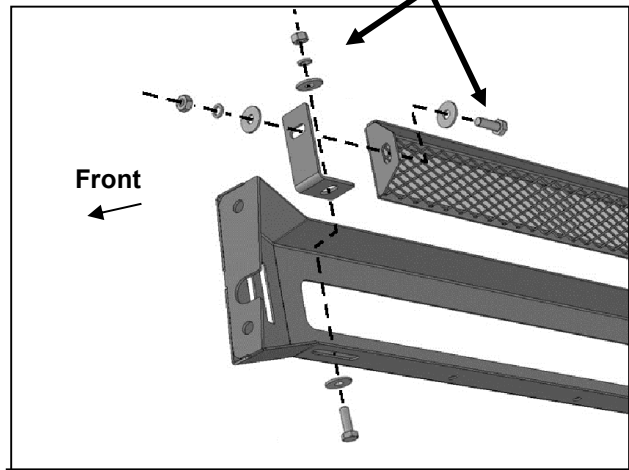
- (2) 6mm Button Head Bolts



(Fig 9) Attach "L" Light Brackets to slots in bottom of Center Cross Bar. Attach LED Bar light to Brackets. NOTE: Optional LED light available separately.

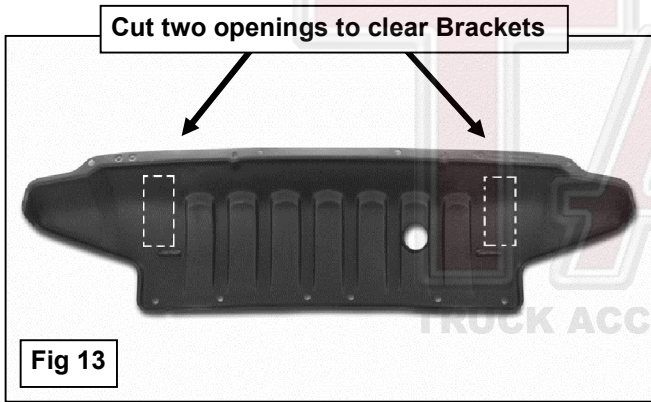
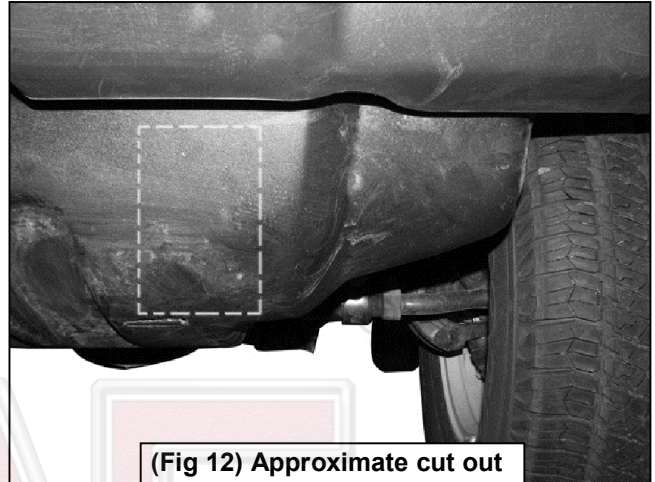
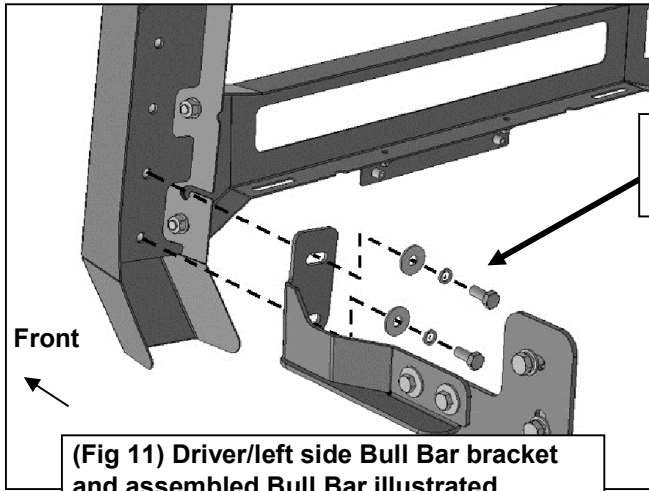
- 8mm x 25mm Hex Bolt
- (2) 8mm Flat Washers
- 8mm Lock Washer
- 8mm Hex Nuts

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



(Fig 10) Attach Center Fill Panel to "L" Brackets

Driver Side Installation Pictured



NOTE: Cut only what is needed to insert brackets through splash guard.

