

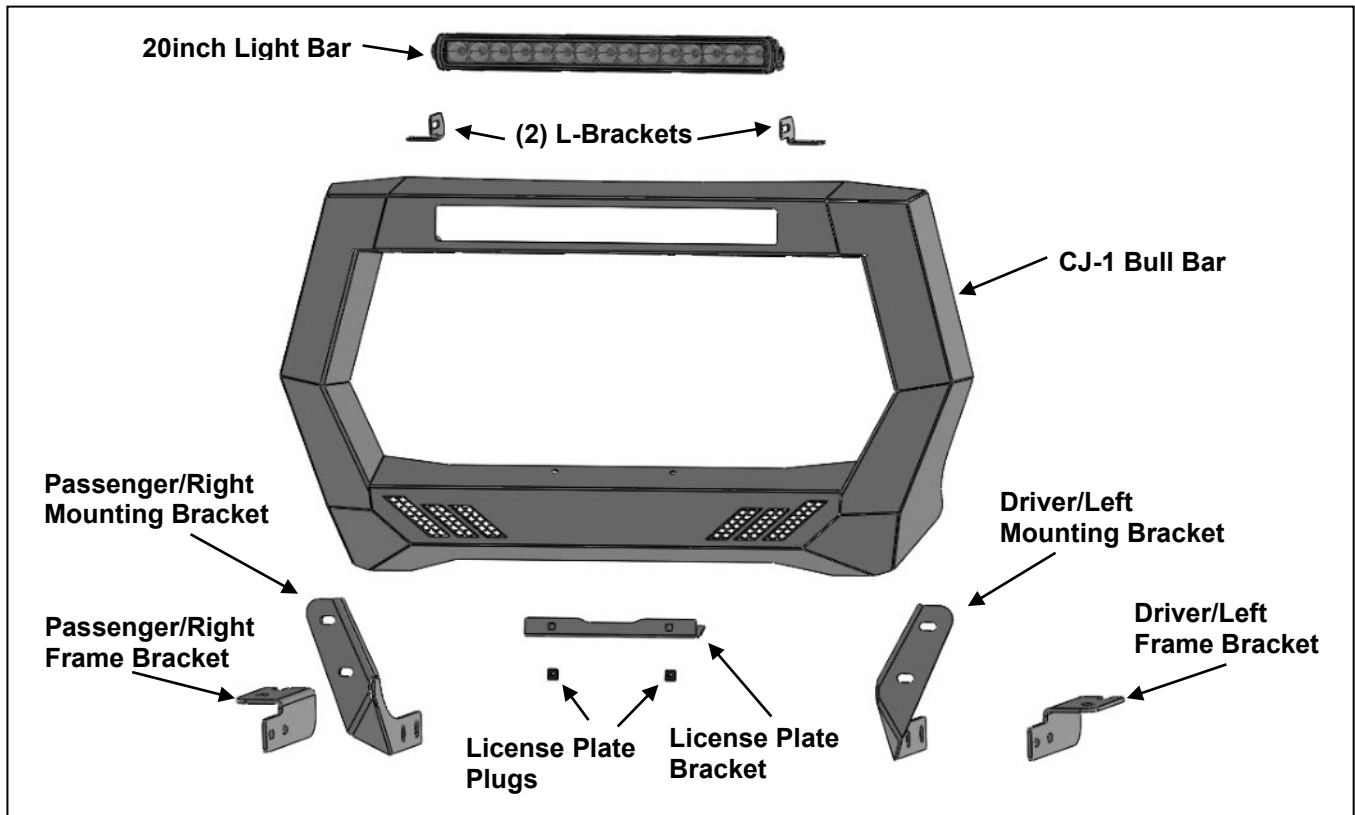
# **INSTALLATION INSTRUCTIONS**

**CJ-1 BULL BAR W-LIGHT**

**04-19 FORD F-150 (EXCL. RAPTOR)**

**PARTS LIST:**

1	CJ-1 Bull Bar	2	10mm U-Bolts
1	Driver/Left Frame Bracket	4	10-1.5mm x 35mm Hex Head Bolts
1	Passenger/Right Frame Bracket	4	10-1.5mm x 25mm Hex Head Bolts
1	Driver/Left Mounting Bracket	16	10mm x 30mm OD x 2.5mm Flat Washers
1	Passenger/Right Mounting Bracket	12	10mm Lock Washers
1	Driver/Left L-Bracket	8	10mm Hex Nuts
1	Passenger/Right L-Bracket	4	10mm Plastic Retainers
1	License Plate Bracket	2	8-1.25mm x 20mm Hex Head Bolts
2	License Plate Plugs	2	8-1.25mm x 16mm Hex Head Bolts
1	20inch LED Light Bar	6	8mm x 24mm OD x 2mm Flat Washers
4	12mm x 40mm Bolt Plates	4	8mm Lock Washers
4	12mm Plastic Retainers	2	8mm Hex Nuts
4	12mm x 32mm OD x 3mm Flat Washers	2	6-1.0mm x 20mm Button Head Combo Bolts
4	12mm Lock Washers	2	6mm Serrated Flange Hex Nuts
4	12-1.75mm Hex Nuts	1	4mm Hex Wrench



**PROCEDURE:**

1. REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. CUTTING MAY BE REQUIRED. ASSISTANCE IS RECOMMENDED. INSTALLATION MAY INTERFERE WITH FRONT SENSOR/CAMERA OPERATION.
2. Determine if the vehicle is equipped with tow hooks, (Figure 1).
  - Vehicles with Factory Tow Hooks**
    - a. Remove each tow hook by removing the front bolt and only loosen, do not remove, the rear bolt, (Figure 2). Slide the tow hook out of the bumper. Keep the factory double nut plate in the frame and aligned with the holes. **NOTE:** Tow hooks cannot be reinstalled.
    - b. Select the Driver/Left Frame Bracket. Reuse the tow hook bolts to attach the Bracket to the bottom of the frame and factory nut plate, (Figure 3). Do not tighten hardware at this time.
    - c. Repeat previous **Steps** for the Passenger/Right side. Continue to **Step 4**.
  - All vehicles without Tow Hooks**

Remove the splash guard or lower bumper to access the ends of the frame, **(Figure 4)**. **Note:** The lower bumper or splash guard will need to be cut out to allow the Brackets to pass through. On some models, access to the mounting hardware is limited. **Important:** 2015-on model years with fog lights, entire bumper may need to be removed to remove splash guard. For access to hardware, first remove the plastic bumper pad from each side of the opening in the center of the bumper, **(Figure 5)**.

**Models with open end of frame**

- a. Select (2) 12mm Bolt Plates. Insert the (2) Bolt Plates through the opening in the end of the Driver/Left frame and down through the holes in the bottom of the frame, **(Figures 6a & 6b)**. **(Optional)** Thread Plastic Retainers onto the Bolt Plates to hold them in place.
- b. Attach the Driver/Left Frame Bracket to the (2) Bolt Plates with (2) 12mm Flat Washers, (2) 12mm Lock Washers and (2) 12mm Hex Nuts, **(Figure 7)**. Do not tighten the hardware.
- c. Repeat previous **Steps** for the Passenger/Right side. Continue to **Step 3**.

**Models with closed end of frame**

- a. Select (1) 10mm U-Bolt. Insert the U-Bolt up into one of the holes in the frame and down through the other, **(Figures 8a & 8b)**. **(Optional)** Thread Plastic Retainers onto the U-Bolt to hold it in place.
- b. Attach the Driver/Left Frame Bracket to the U-Bolt with (2) 10mm x 30mm Flat Washers, (2) 10mm Lock Washers, and (2) 10mm Hex Nuts **(Figure 9)**. Do not tighten Hardware.
- c. Repeat previous **Steps** for the Passenger/Right side. Continue to **Step 3**.

**3. Models without tow hooks (applies to models without tow hooks only)**

- a. Hold the splash guard up to the bottom of the bumper and Frame Brackets.
- b. Trace the location of both Brackets onto the back of the cover.
- c. Cut openings in the cover to clear the Frame Brackets as necessary, **(Figure 10)**. For best results, start with a small slot and slowly enlarge the opening to clear the Brackets.
- d. Once cover is properly fit to the Brackets reattach the splash guard to the bumper. If bumper was removed in **Step 2**, reinstall bumper.

**4.** Select the Driver/Left Mounting Bracket. Attach the Mounting Bracket to the back of the Bull Bar with (2) 10mm x 25mm Hex Bolts, (2) 10mm Lock Washers and (2) 10mm Flat Washers, **(Figures 11 & 12)**. Do not tighten hardware. Repeat this **Step** to attach the Passenger/Right Mounting Bracket to the back of the Bull Bar.

**5. LED Light Bar installation, (optional)**

- a. Select the Driver/Left L-Bracket. Attach the Bracket to the back of the bumper with (1) 8mm x 20mm Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, **(Figure 13)**. Repeat this **Step** to attach the Passenger/Right L-Bracket.
- b. Select the LED Light Bar. Attach the Light Bar to the L-Brackets with (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers, **(Figure 14)**.
- c. Follow light manufacturer's instructions to properly wire the light bar to the electrical system.

**6.** With assistance, hold the Bull Bar up to the Frame Brackets. Attach the Mounting Brackets to the inside of the Frame Brackets with (4) 10mm x 35mm Hex Bolts, (8) 10mm Flat Washers, (4) 10mm Lock Washers and (4) 10mm Hex Nuts, **(Figures 15 & 16)**. Do not tighten hardware.

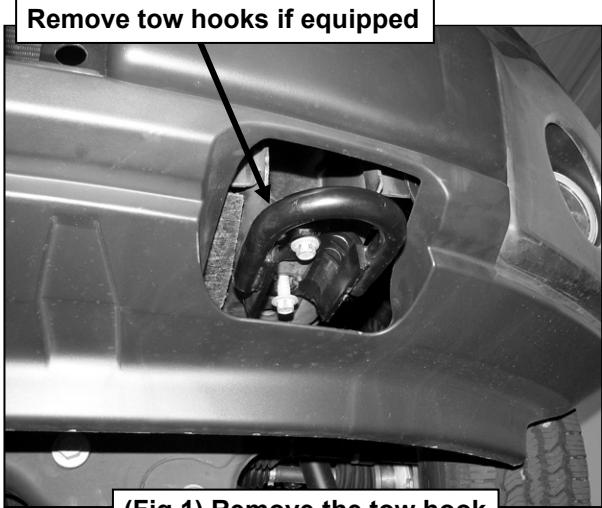
**7.** Level and adjust the Bull Bar and tighten all hardware.

**8.** Relocation of front license plate may be necessary. Select the License Plate Bracket. Attach the License Plate Bracket to the Bull Bar with (2) 6mm Button Head Combo Bolts and (2) 6mm Flanged Hex Nuts, **(Figure 17)**. Insert (2) License Plate Plugs into the Bracket, **(Figure 18)**.

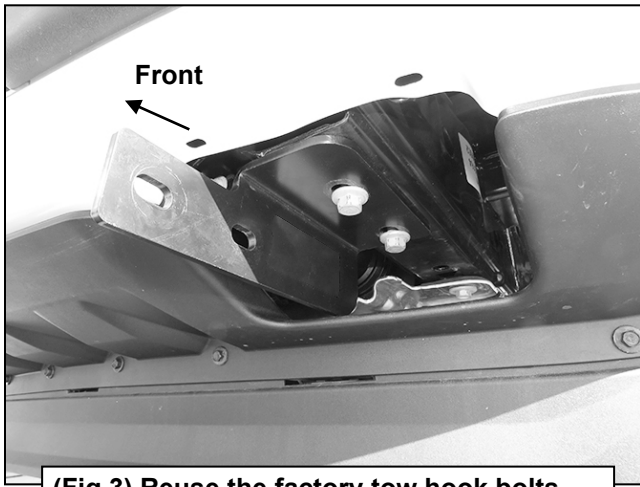
**9.** Do periodic inspections to the installation to make sure that all hardware is secure and tight.

**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 to clean the Bull Bar.

**Driver/Left Side Installation Pictured**



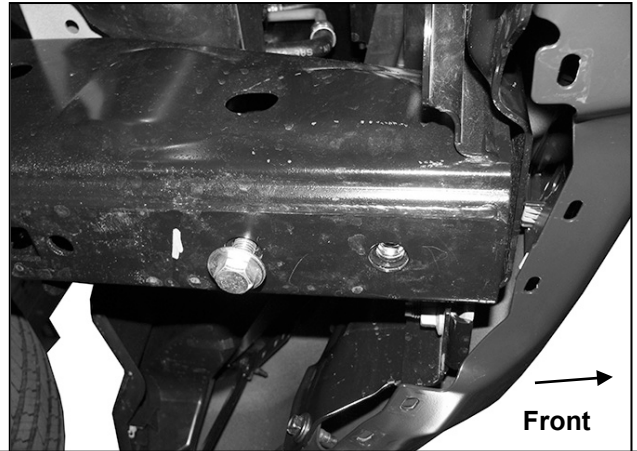
**(Fig 1) Remove the tow hook**



**(Fig 3) Reuse the factory tow hook bolts**



**(Fig 5) Remove bumper pads to access splash guard hardware if necessary. 2017 F150 pictured**

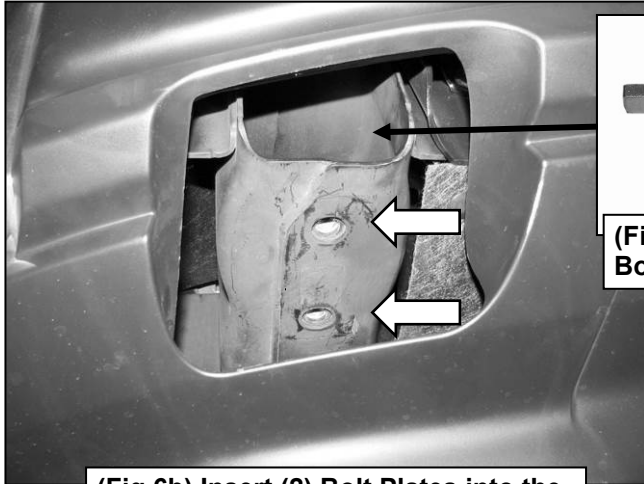


**(Fig 2) Leave rear tow hook bolt in factory nut plate**

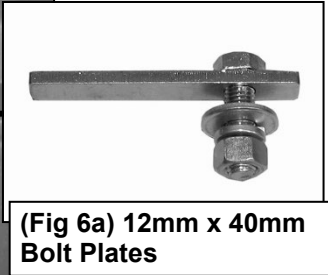


**(Fig 4) Models without tow hooks, temporarily remove the splash guard**

**Driver/Left Side Installation Pictured**

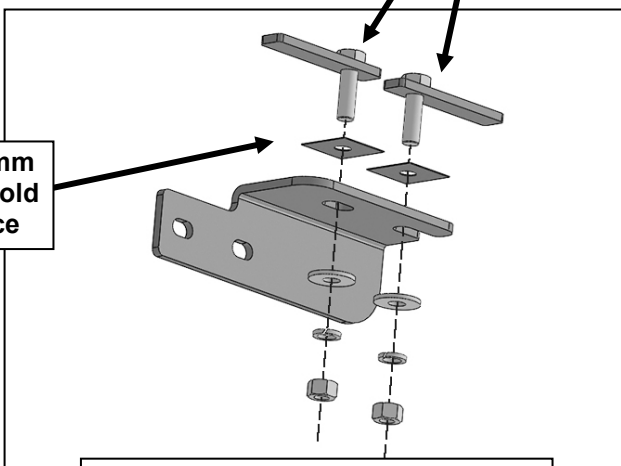


**(Fig 6b) Insert (2) Bolt Plates into the holes in the bottom of the frame**



**(Fig 6a) 12mm x 40mm Bolt Plates**

- (2) 12mm Bolt Plates
- (2) 12mm Flat Washers
- (2) 12mm Lock Washers
- (2) 12mm Hex Nuts

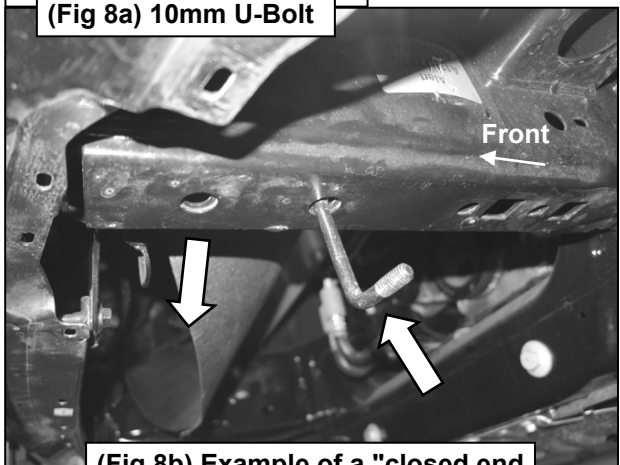


**(Fig 7) Attach the Driver/Left Frame Bracket to the (2) Bolt Plates**

**(Optional) Use (2) 12mm Plastic Retainers to hold the Bolt Plates in place**

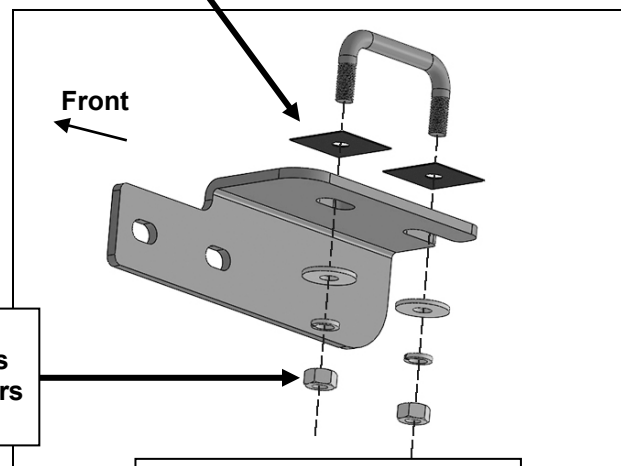


**(Fig 8a) 10mm U-Bolt**



**(Fig 8b) Example of a "closed end of frame" installation pictured**

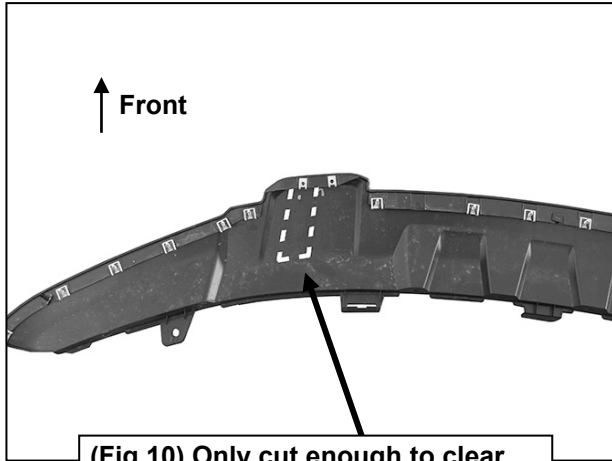
**(Optional) Use (2) 10mm Plastic Retainers to hold the U-Bolt in place**



**(Fig 9) Attach the Driver/Left Frame Bracket to the U-Bolt**

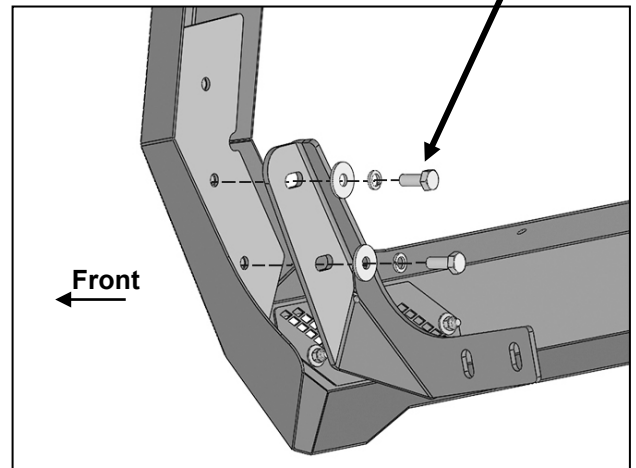
- 10mm U-Bolt
- (2) 10mm Flat Washers
- (2) 10mm Lock Washers
- (2) 10mm Hex Nuts

### Driver/Left Side Installation Pictured

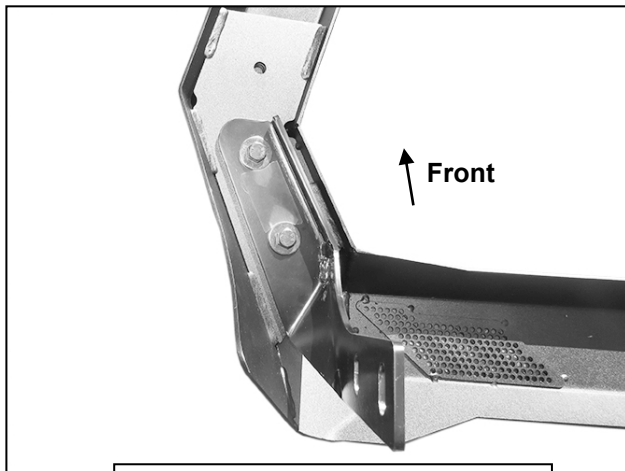


(Fig 10) Only cut enough to clear the Brackets, do not cut through the front or rear edges of the cover.

- (2) 10mm x 25mm Hex Bolts
- (2) 10mm Flat Washers
- (2) 10mm Lock Washers

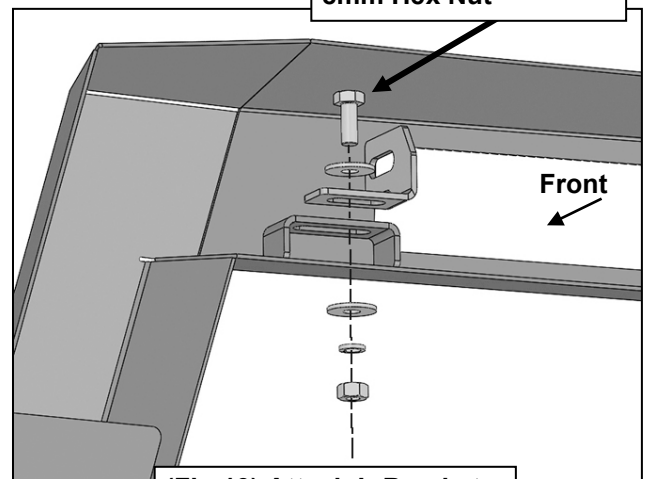


(Fig 11) Attach the Driver/Left Mounting Bracket to the Bull Bar



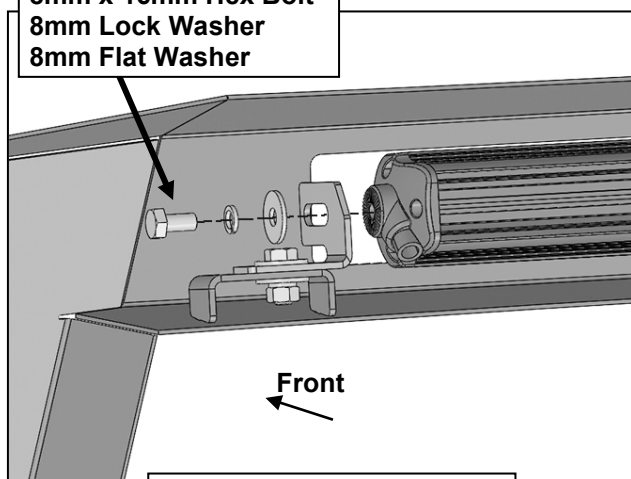
(Fig 12) Driver/Left Mounting Bracket Attached to the Bull Bar

- 8mm x 20mm Hex Bolt
- (2) 8mm Flat Washers
- 8mm Lock Washer
- 8mm Hex Nut



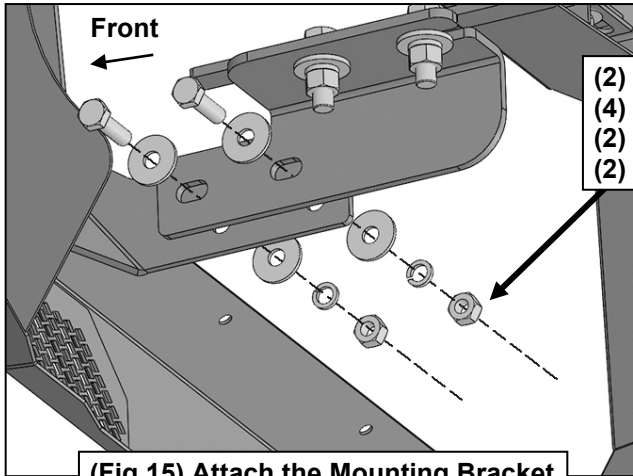
(Fig 13) Attach L-Brackets to the back of the Bull Bar

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



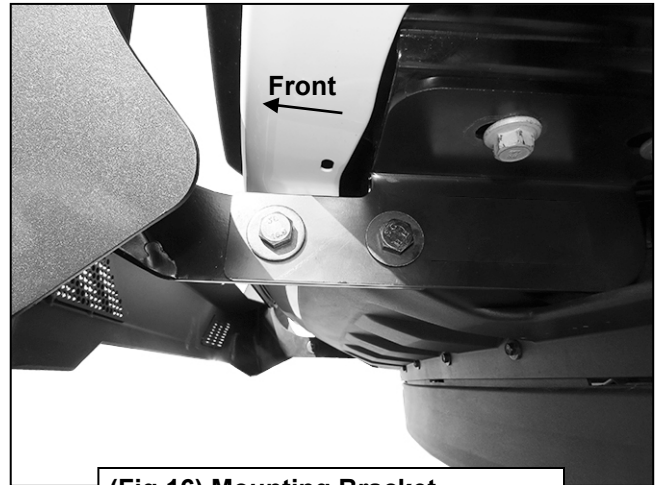
(Fig 14) Attach Light Bar to the Driver/Left L-Bracket

### Driver/Left Side Installation Pictured

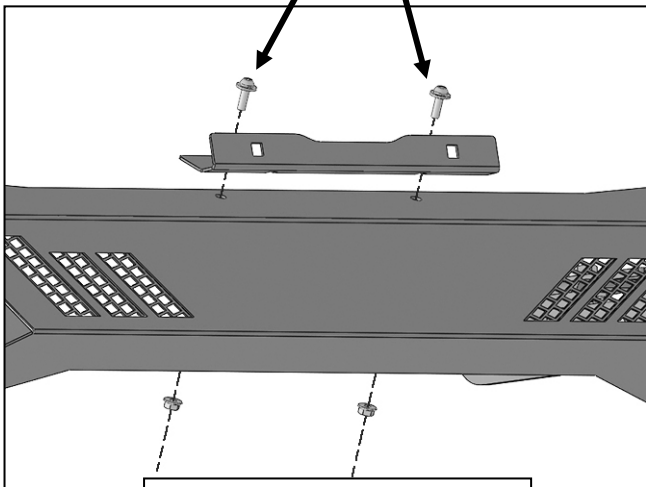


(Fig 15) Attach the Mounting Bracket to the Driver/Left Frame Brackets

- (2) 6mm Button Head Combo Bolts
- (2) 6mm Flanged Hex Nuts

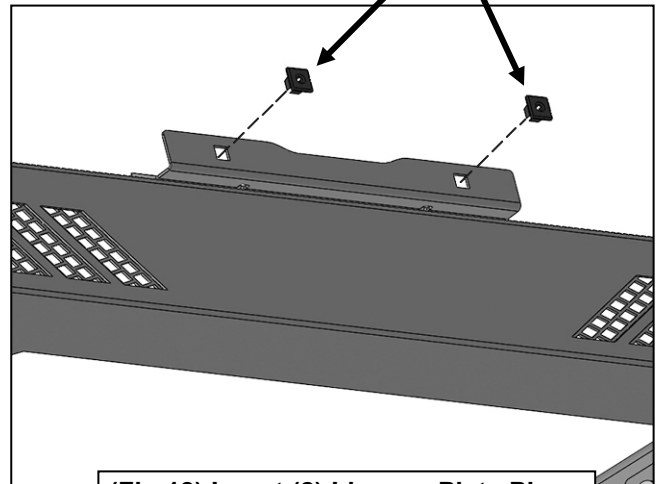


(Fig 16) Mounting Bracket attached to the Driver/Left Frame



(Fig 17) Attach the License Plate Bracket to the Bull Bar

- (2) License Plate Plugs



(Fig 18) Insert (2) License Plate Plugs into the License Plate Bracket



Installation Complete