



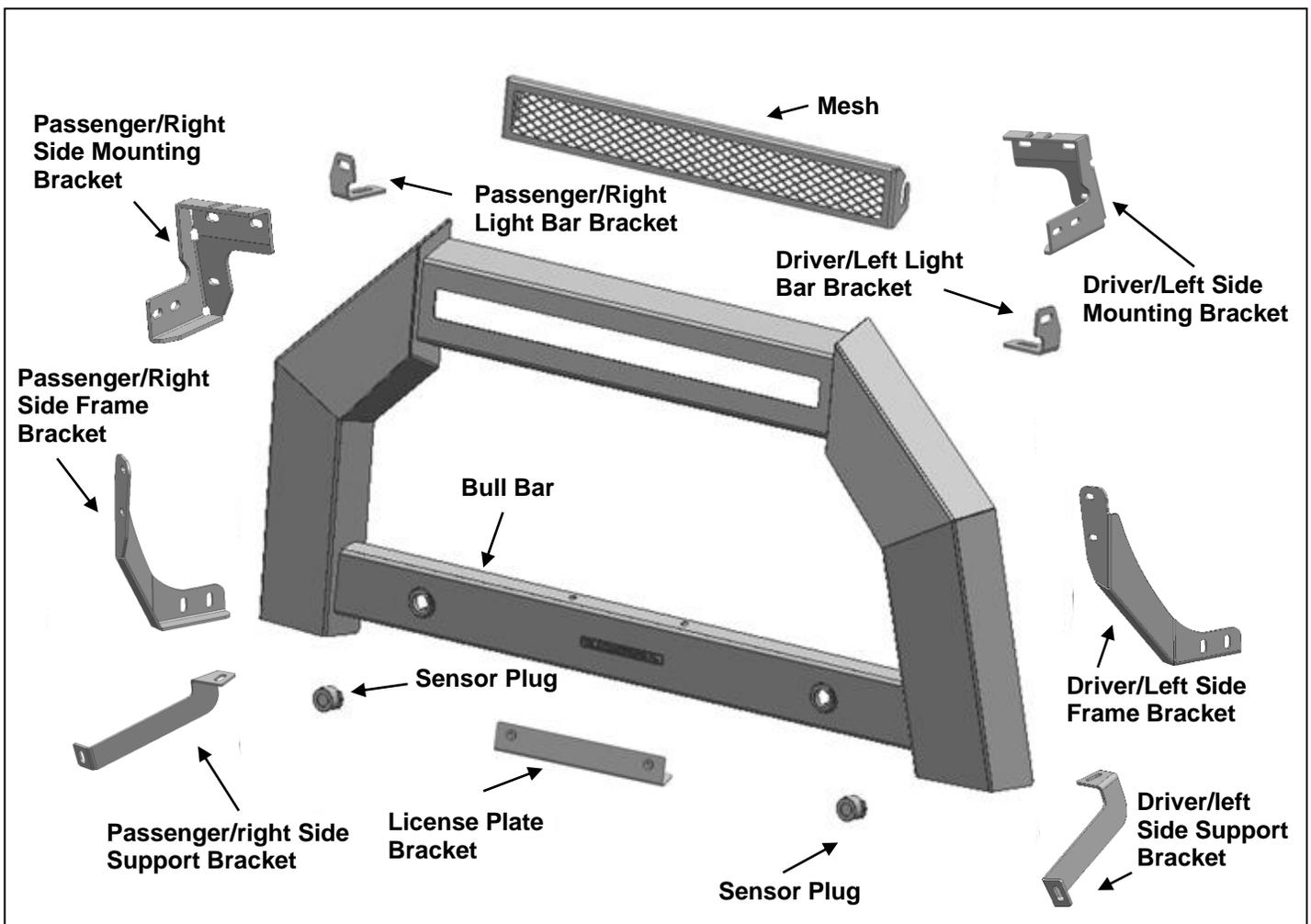
**TEL: 1-866-XANATOS**

# **INSTALLATION INSTRUCTIONS**

**ARMOUR BULL BAR  
2022-2024 TOYOTA TUNDRA  
PART#TO22/AB-TO22-NL/AB-TO22**

**PARTS LIST:**

1	Bull Bar	8	10mm Hex Nuts
1	Driver/Left Side Frame Bracket	2	10mm Fish Wire
1	Passenger/Right Side Frame Bracket	2	8mm Nylon Lock Nuts
1	Driver/Left Side Support Bracket	2	8-1.25mm x 20mm Hex Bolts
1	Passenger/Right Side Support Bracket	2	8-1.25mm x 16mm Hex Bolts
1	Driver/Left Side Mounting Bracket	8	8mm x 24mm x 2mm Flat Washers
1	Passenger/Right Side Mounting Bracket	4	8mm Lock Washers
1	Driver/Left Side Light Bar Bracket	2	8mm Hex Nuts
1	Passenger/Right Side Light Bar Bracket	2	6-1.0mm x 20mm Combo Bolts
1	Mesh	2	6-1.0mm x 20mm Button Head Bolts
1	License Plate Bracket	4	6mm x 18mm x 1.6mm Flat Washers
2	Rubber Sensor Plugs	2	6mm Lock Washers
6	10-1.5mm x 35mm Hex Bolts	2	6mm Hex Nuts
4	10-1.5mm x 25mm Hex Bolts	4	4mm x 10mm Button Head Bolts(Backup Accessories)
18	10mm x 30mm x 2.5mm Flat Washers	1	Wrench S=4 (Backup Accessories)
2	10-1.5mm x 35mm Bolt Plates	1	Wrench S=2.5
12	10mm Lock Washers	1	20inch LED Single Row Light



**PROCEDURE:**

**REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. INSTALLATION MAY INTERFERE WITH FRONT MOUNTED SENSORS.**

1. Start installation under the Passenger/Right front side of the vehicle. Locate the end of the frame just behind the bumper and temporarily remove the (4) factory bolts, **(Figure 1)**
2. Select the Passenger/Right Side Mounting Bracket. Reuse the factory bolts to attach the Mounting Bracket to the frame, **(Figure 2)**. Do not tighten hardware.
3. Repeat **Step 1&2** to attach the Driver/Left Side Mounting Bracket.
4. Select (1) 10-1.5mm x 35mm Bolt Plate and (1) 10mm Fish Wire. Thread the Fish Wire onto the Bolt Plate, **(Figure 3)**. Insert the end of the Fish Wire into the large hole and guide the Bolt Plate through to the smaller hole towards the side of the vehicle, **(Figures 4 & 5)**
5. Select the Passenger/Right Side Support Bracket. Attach the Support Bracket to the (1) 10-1.5mm x 35mm Bolt Plate with (1) 10mm x 30mm x 2.5mm Flat Washer, (1) 10mm Lock Washer and (1) 10mm Hex Nut, **(Figure 6)**. Attach the Support Bracket to the Passenger/Right Side Mounting Bracket with (1) 10-1.5mm x 35mm Hex Bolt, (2) 10mm x 30mm x 2.5mm Flat Washers, (1) 10mm Lock Washer and (1) 10mm Hex Nut, **(Figures 7)**. Do not tighten hardware.
6. Repeat **Step 4** to attach the Driver/Left Side Support Bracket.
7. Select the Passenger/Right Side Frame Bracket, **(Figures 8)**. Attach the Passenger/Right Side Frame Bracket to the Passenger/Right Side Mounting Bracket with the included (2) 10-1.5mm x 35mm Hex Bolts, (4) 10mm x 30mm x 2.5mm Flat Washers, (2) 10mm Lock Washers and (2) 10mm Hex Nuts, **(Figures 8)**. Do not fully tighten hardware at this time.
8. Repeat **Step 7** to attach the Driver/Left Side Frame Bracket.
9. Relocation of front license plate is not required, but strongly recommended.
  - a. Attach the License Plate Bracket to the Bull Bar with (2) 6-1.0mm x 20mm Button Head Bolts, (4) 6mm x 18mm x 1.6mm Flat Washers, (2) 6mm Lock Washers and (2) 6mm Hex Nuts, **(Figure 9)**. Use (2) 6-1.0mm x 20mm Combo Bolts to attach the front license plate to the Bracket, **(Figure 9)**.
10. **Mesh and LED Light installation, (LED light sold separately)**. Select the driver/left side Light Bar Bracket. Attach the Bracket to the back of the mounting plate on the Bull Bar with (1) 8-1.25mm x 20mm Hex Bolt, (2) 8mm x 24mm x 2mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, **(Figure 10)**. Repeat this step to attach the passenger/right side Light Bar Bracket to the back of the Bull Bar. Do not tighten hardware.

**LED Light Installation**

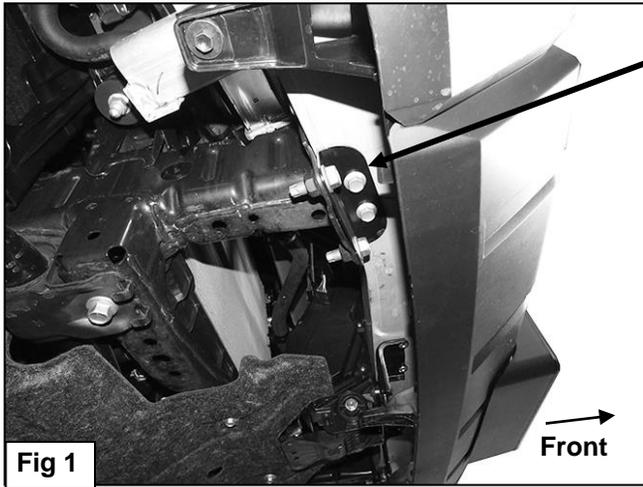
  - a. Use (1) 8-1.25mm x 16mm Hex Bolt, (1) 8mm Lock Washer and (1) 8mm Flat Washer to attach the driver/left side Light Bar Brackets to the Bull Bar, **(Figure 11)**. Repeat this step to attach the passenger/right side Light Bar Bracket to the back of the Bull Bar.
  - b. Follow the light manufacturer's instructions to attach the Bull Bar.
  - c. Follow light manufacturer's instructions to properly wire the Bull Bar.

**Mesh installation**

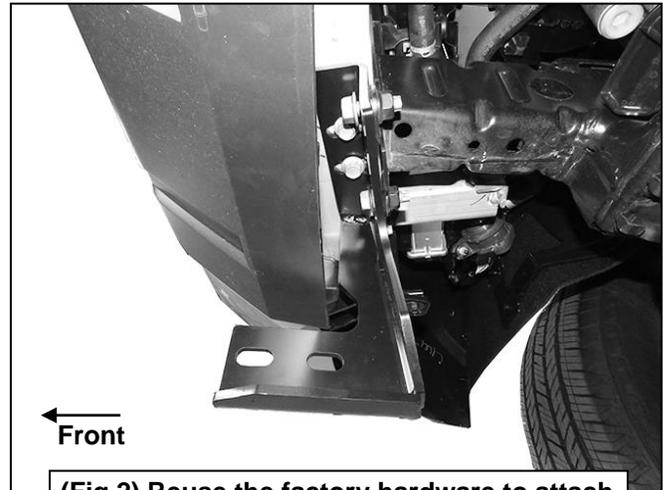
  - a. Use (1) 8-1.25mm x 16mm Hex Bolt, (2) 8mm x 24mm x 2mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nuts to attach the Mesh to the inside surface of the driver/left side Light Bar Brackets, **(Figure 12)**. Repeat this step to attach the Mesh to the back of the passenger/right side Light Bar Bracket.
  - b. Level and adjust the Brackets to the Mesh Panel and fully tighten hardware.
11. With assistance, hold up the assembled Bull Bar to the Driver/Left Side Frame Bracket. Align the (2) bottom holes on the Uprights with the Brackets. Bolt the assembled Bull Bar to the Brackets with (2) 10-1.5mm x 25mm Hex Bolts, (2) 10mm Lock Washers and (2) 10mm x 30mm x 2.5mm Flat Washers, **(Figures 13)**. Repeat this step to attach the Passenger/Right Side Frame Bracket to the back of the Bull Bar.
12. Level and adjust the Bull Bar properly and tighten all hardware.
13. Select the (2) Sensor Plugs. Push the sensor plugs into the sensor sleeves behind the Bull Bar, **(Figure 14)**.
14. Level and adjust the Bull Bar properly and tighten all hardware. Reinstall the tow hook if removed.
15. 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 to clean the Bull Bar.

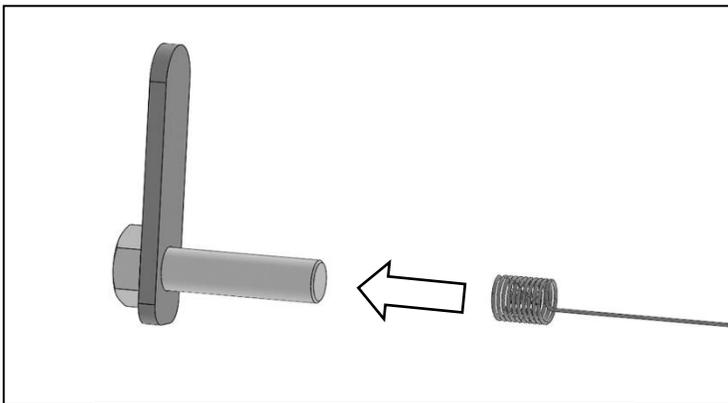
### Passenger/Right Side Installation Pictured



Temporarily remove the (4) bolts located behind the bumper



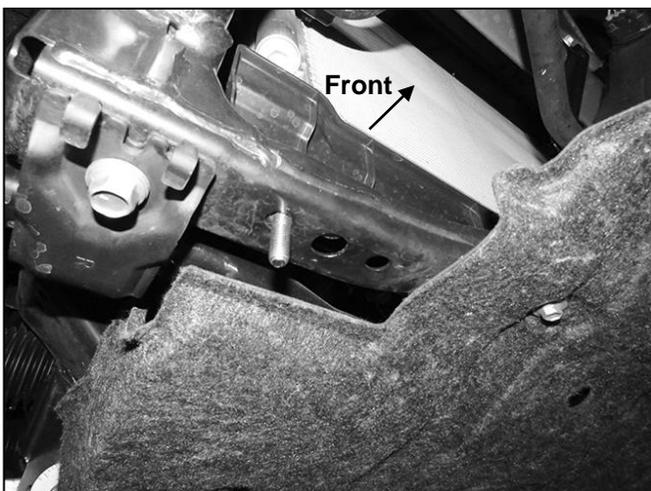
(Fig 2) Reuse the factory hardware to attach the Passenger/Right Side Mounting Bracket



(Fig 3) Thread (1) 10mm Fish Wire onto (1) 10-1.5mm x 35mm Bolt Plate

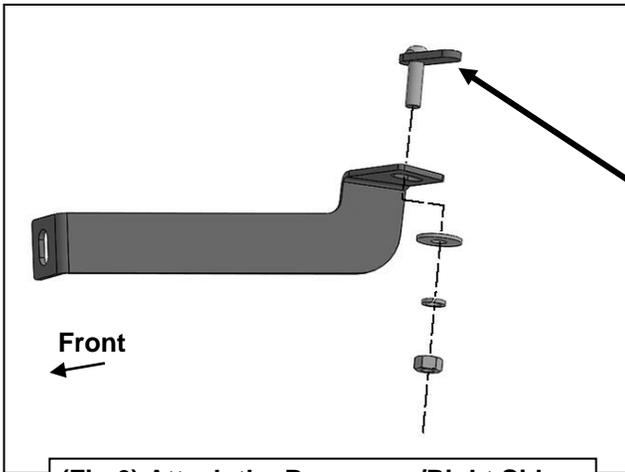


(Fig 4) Insert (1) 10-1.5mm x 35mm Bolt Plate with Fish Wire into the large hole on the crossmember and out the smaller hole towards the side of the vehicle



(Fig 5)

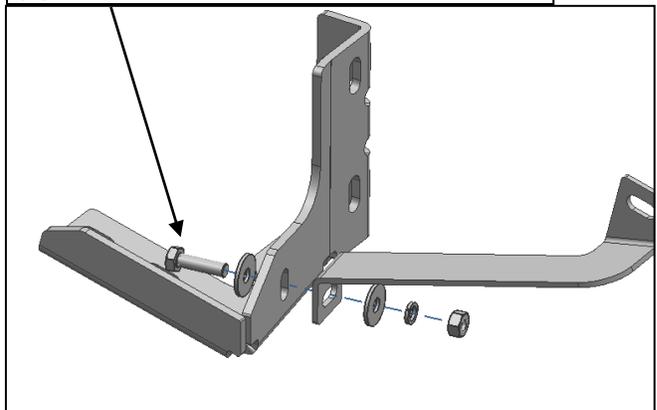
### Passenger/Right Side Installation Pictured



- (1) 10-1.5mm x 35mm Bolt Plate
- (1) 10mm x 30mm x 2.5mm Flat Washer
- (1) 10mm Lock Washer
- (1) 10mm Hex Nut

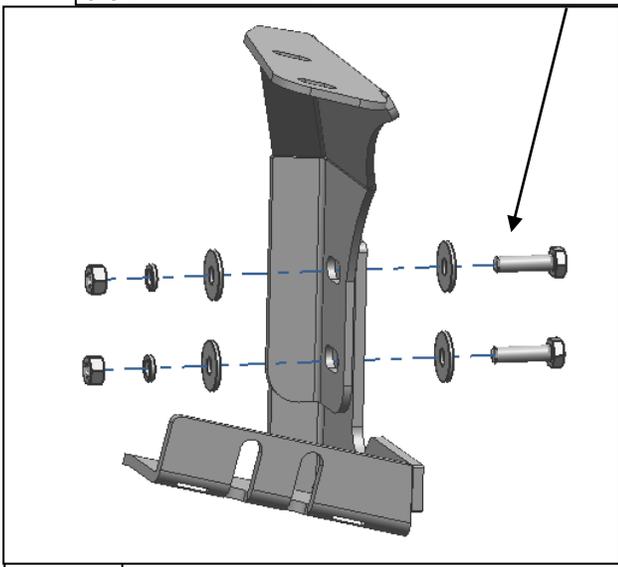
**(Fig 6) Attach the Passenger/Right Side Support Bracket to the Bolt Plate**

- (1) 10-1.5mm x 35mm Hex Bolt
- (2) 10mm x 30mm x 2.5mm Flat Washers
- (1) 10mm Lock Washer
- (1) 10mm Hex Nut



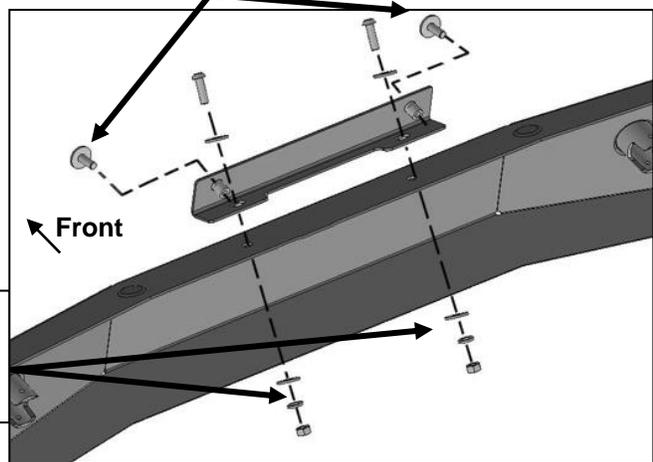
**(Fig 7) Attach the Passenger/Right Side Support Bracket to the Passenger/Right Side Mounting Bracket**

- (2) 10-1.5mm x 35mm Hex Bolt
- (4) 10mm x 30mm x 2.5mm Flat Washers
- (2) 10mm Lock Washer
- (2) 10mm Hex Nut



**(Fig 8)**

- (2) 6-1.0mm x 20mm Combo Bolts

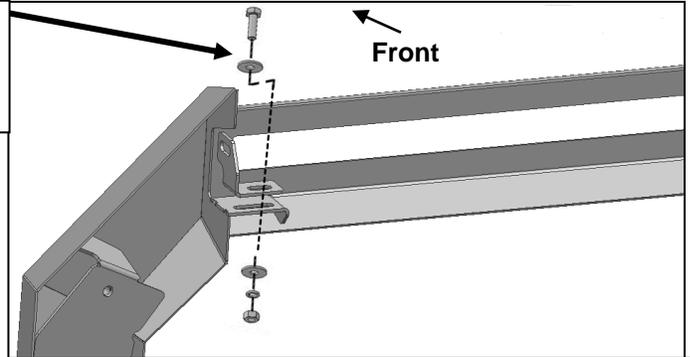


- (2) 6-1.0mm x 20mm Button Head Bolts
- (4) 6mm x 18mm x 1.6mm Flat Washers
- (2) 6mm Lock Washers
- (2) 6mm Hex Nuts

**(Fig 9) License Plate Bracket attached to the Bull Bar**

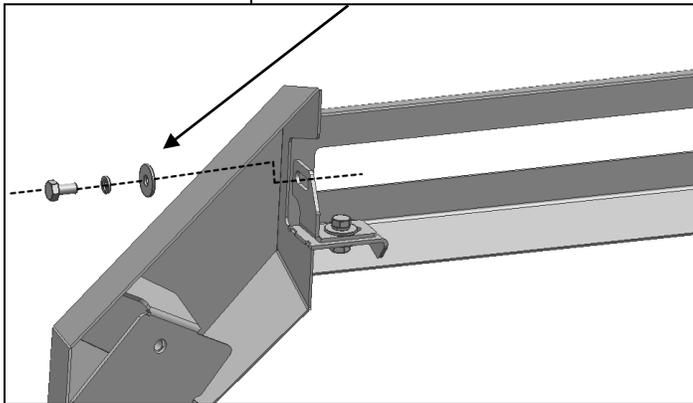
### Driver Side Installation Pictured

- (1) 8-1.25mm x 20mm Hex Bolt
- (2) 8mm x 24mm x 2mm Flat Washers
- (1) 8mm Lock Washer
- (1) 8mm Hex Nut



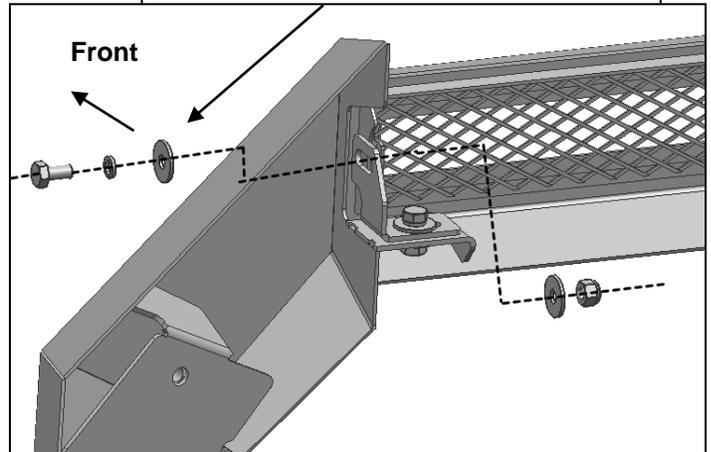
(Fig 10) Driver side light bar Bracket attached to the Bull Bar

- (1) 8-1.25mm x 16mm Hex Bolt
- (1) 8mm Lock Washer
- (1) 8mm Flat Washer



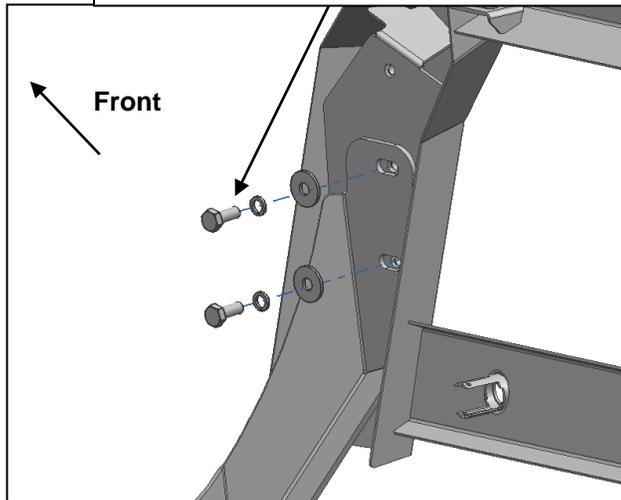
(Fig 11) Driver side light bar Bracket attached to the Bull Bar hardware

- (1) 8-1.25mm x 16mm Hex Bolt
- (2) 8mm x 24mm x 2mm Flat Washers
- (1) 8mm Lock Washer
- (1) 8mm Hex Nut

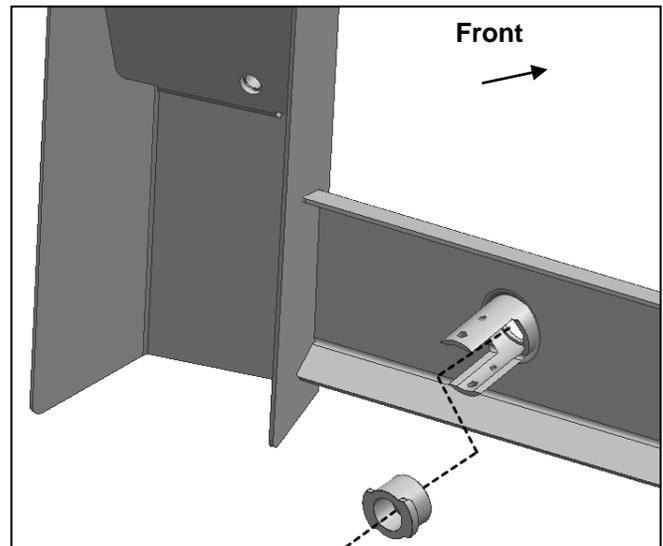


(Fig 12) Driver side light bar Bracket attached to Mesh hardware

- (2) 10-1.5mm x 25mm Hex Bolt
- (2) 10mm Lock Washers
- (2) 10mm x 30mm x 2.5mm Flat Washers



(Fig 13) Driver/left Side complete installation



(Fig 14) Attach Sensor Plug into Sensor Sleeve