



TEL: 1-866-XANATOS

INSTALLATION INSTRUCTIONS

ARMOUR BULL BAR

19-24 CHEVY SILVERADO 1500

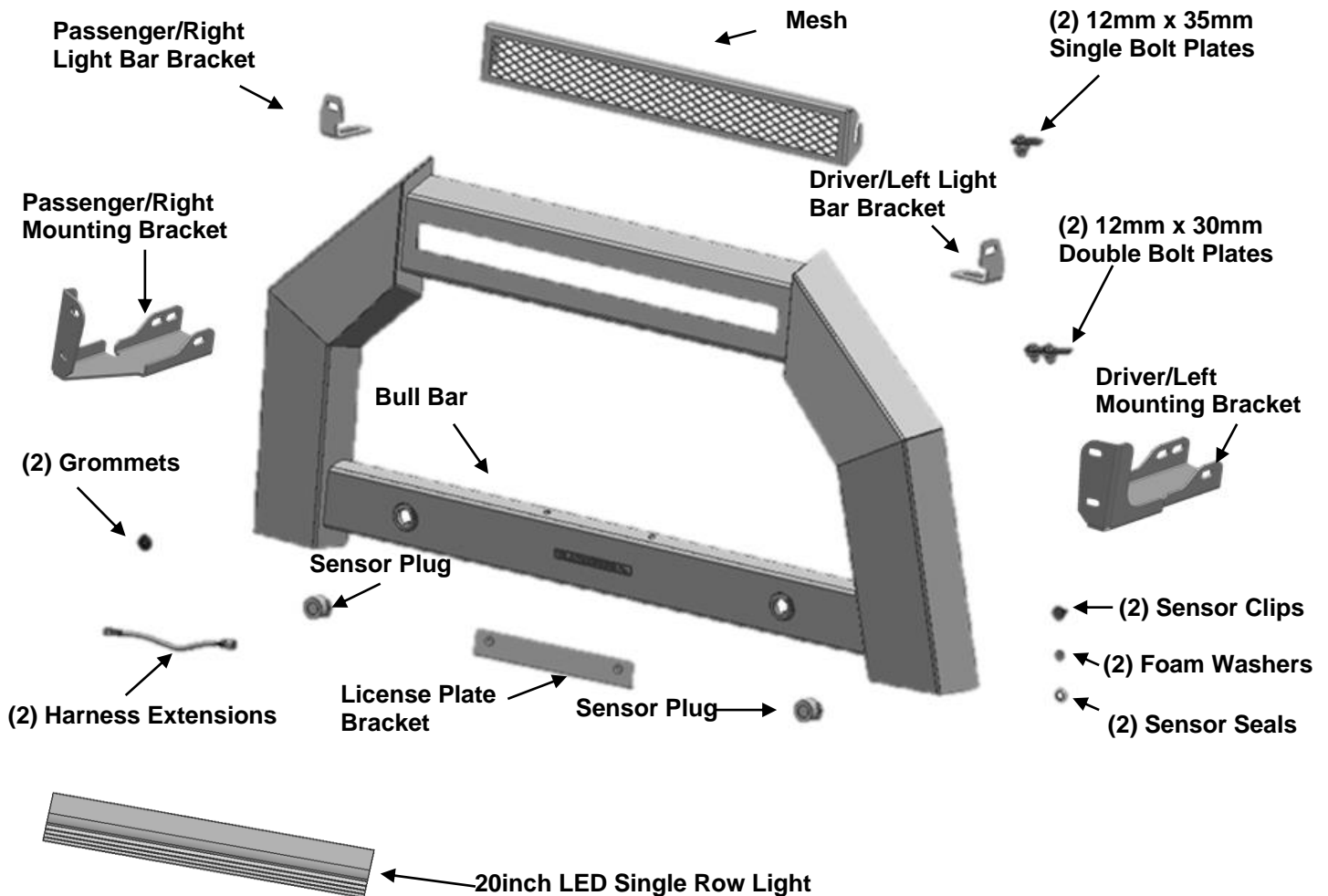
**(EXCL. 19-21 1500 LD AND 22-24 MODELS WITH SUPER CRUISE SYSTEM &
INCL. 2022 1500 LTD AND DIESEL MODELS WITH DEF TANKS)**

(W/ PARKING SENSOR RELOCATION KIT)

PART# AB-GM11/AB-GM11-NL/GM11

PARTS LIST:

1	Bull Bar	4	10mm x 30mm OD x 2.5mm Flat Washers
1	Driver/Left Side Mounting Bracket	4	10mm Lock Washers
1	Passenger/Right Side Mounting Bracket	4	10mm x 25mm Hex Bolts
1	Driver/Left Side Light Bar Bracket	2	8mm x 20mm Hex Bolts
1	Passenger/Right Side Light Bar Bracket	2	8mm x 16mm Hex Bolts
1	Mesh	4	8mm Lock Washers
1	License Plate Bracket	2	8mm Hex Nuts
2	Rubber Sensor Plugs	8	8mm x 24mm OD x 2mm Flat Washers
2	GM Sensor Wire Harness Extensions	2	8mm Nylon Lock Nuts
2	Rubber Grommets	2	6mm Hex Nuts
2	Sensor Plugs	4	6mm x 18mm OD x 1.6mm Flat Washers
2	Sensor Seal Washers	2	6mm x 20mm Button Head Allen Screws
2	20mm x 2mm Foam Washers	2	6mm Lock Washers
2	12-1.75mm x 30mm Double Bolt Plates	2	6mm x 20mm Combo Bolts
2	12-1.75mm x 35mm Single Bolt Plates	4	4mm x 10mm Button Head Allen Screws
6	12mm Nylon Lock Nuts	1	Wrench S=4
6	12mm x 24mm OD x 2.5mm Flat Washers	1	Wrench S=2.5
1	20inch LED Single Row Light		



PROCEDURE:

REMOVE CONTENTS FROM BOX AND VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY. CUTTING MAY BE REQUIRED. INSTALLATION MAY INTERFERE WITH FRONT MOUNTED SENSORS. NOTE: It may be necessary to remove/relocate front license plate and license plate bracket. It is not required, but strongly recommended. If local/state law requires a front license plate, license plate relocation kit is available.

1. Start installation from under the front of the vehicle. Determine if the vehicle is equipped with tow hooks. **IMPORTANT:** Tow hooks cannot be reinstalled with the Bull Bar.

Tow Hook equipped vehicles:

- a. Remove the factory tow hook from the end of each frame channel, **(Figures 1—3)**.
- b. Select the passenger/right Mounting Bracket. Insert the Bracket through the opening in the bumper and up to the frame. Trim the plastic as required to clear the Bracket, **(Figure 5)**. Repeat to check for clearance on driver/left side of bumper.
- c. Proceed to **Step 2**.

Vehicles without tow hooks:

- a. Cut out the indented area in both sides of the plastic bumper insert to clear the Brackets as pictured, **(Figures 4 & 5)**. **IMPORTANT:** Make several small cuts for best fit.
- b. Check for clearance between Brackets and opening and trim the plastic as required to clear the Brackets.

Models equipped with diesel turbo and 2.7ltr gas engines with turbo intercooler and tow hooks:

- a. Open the hood and remove the cover between the top of the radiator and the grille, **(Figure 6)**.
- b. Carefully remove the grille from the vehicle. **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, **(Figures 6 & 7)**. Unplug wire harness leading to camera in grille if equipped.
- c. Unplug all wiring harnesses leading to the front bumper.
- d. Remove the hardware attaching the outer bumper supports at both ends of the bumper, **(Figure 8)**.
- e. Remove the bolts connecting the bottom of the bumper to the lower bumper bracket, **(Figure 9)**.
- f. Place blocks or jack stands under the front bumper to support it during mounting bolt removal. **WARNING!** Assistance is required to hold the bumper in place during bolt removal to prevent the bumper from falling.
- g. Pull back the rubber seal from the top of the bumper to reveal the top bolts attaching the bumper to the frame, **(Figure 10)**. Remove the bolts from above and remove the bumper.
- h. Unplug the wiring harness to the shutter assembly.
- i. Remove the bolts and pins attaching the shutter assembly to the vehicle to remove, **(Figure 11)**. **NOTE:** The pins are located under the plastic cover above the shutter intake scoop.
- j. Remove the tow hooks, **(Figure 12)**.
- k. Reattach the shutter assembly. With assistance, reinstall the bumper, grille and cover.

2. Line up the holes in the Bracket with the holes in the end of the frame channel for the tow hook, **(Figure 5)**. Select (1) 12mm Double Bolt Plate, **(Figure 13)**. Insert the Bolt Plate into the end of the frame and out through the (2) holes in the side of the frame and out through the Bracket, **(Figures 13 & 14)**. Secure the Bracket to the Bolt Plate with (2) 12mm Flat Washers and (2) 12mm Nylon Lock Nuts. Leave hardware loose at this time.
3. Repeat **Step 2** to install the 12mm x 35mm Single Bolt Plate, , into the single forward tow hook mounting hole in the other side of the frame channel and Bracket, **(Figures 15)**.
4. Repeat **Steps 2 & 3** to install the driver/left Mounting Bracket.
5. Relocation of front license plate is not required, but strongly recommended.
 - a. Attach the License Plate Bracket to the Bull Bar with (2) 6mm Button Head Bolts, (4) 6mm Flat Washers, (2) 6mm Lock Washers and (2) 6mm Hex Nuts, **(Figure 16)**. Use (2) 6mm Combination Bolts to attach the front license plate to the Bracket, **(Figure 16)**.

6. **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) 8mm x 20mm Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, **(Figure 17)**. 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

- Use (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers to attach the Light Bar Brackets to the Bull Bar, **(Figure 18)**.
- Follow the light manufacturer's instructions to attach the Bull Bar.
- Follow light manufacturer's instructions to properly wire the Bull Bar.
- Have no LED Light to please to jump into a next move suddenly. **(Figure 19)**

Mesh installation

- Use (2) 8mm x 16mm Hex Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts to attach the Mesh to the inside surface of the Light Bar Brackets, **(Figure 19)**.
- Level and adjust the Brackets to the Mesh Panel and fully tighten hardware.

7. **Determine if the vehicle is equipped with parking sensors**

Models without sensors

- Select (2) Sensor Plugs. Insert Rubber Plugs into back of sensor mounts, **(Figure 20)**.

Models with Sensors:

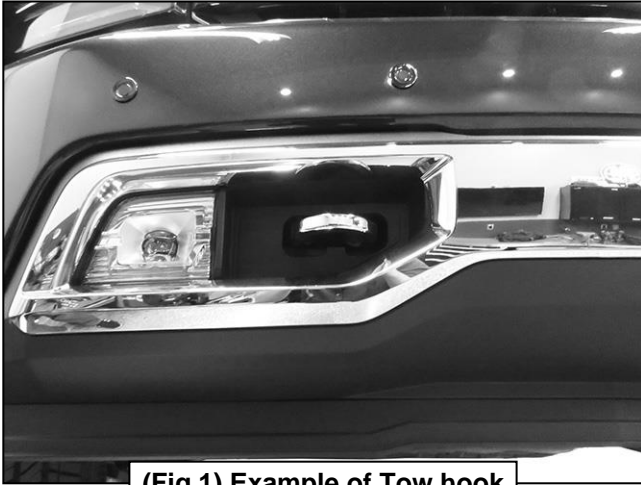
- Unplug and remove sensors from factory bumper.
 - Remove the silicone seal from the end of the sensor. Slide the included larger Sensor Seal over front of sensor, **(Figure 21)**.
 - Insert sensor with Seal into sensor mount, **(Figure 22)**. **NOTE:** It may be easier to attach the included Wiring Extension to the sensor before installing.
 - Place Foam Washer over end of sensor. Push Sensor Retaining Clip into sensor mount and lock into mounting holes, **(Figure 22)**.
 - Repeat previous Steps to install remaining sensor.
8. With assistance, hold the assembled Bull Bar up to the Mounting Brackets. Line up the (2) lower holes in the Uprights with the (2) holes in the Mounting Brackets. Attach the assembled Bull Bar to the Brackets with (4) 10mm Hex Bolts, (4) 10mm Lock Washers and (4) 10mm x 30mm Large Flat Washers, **(Figure 23)**. Do not tighten hardware at this time.
9. Check the Bull Bar alignment with the vehicle and for clearance between the Bull Bar and the bumper. If Bull Bar is too close to or touching bumper, remove the Bull Bar and reinstall the Brackets in the "forward" position away from the bumper. Adjust as required then fully tighten all hardware at this time.
10. Models with sensors only:
- Select (1) Rubber Grommet. Slide the Grommet over the small male plug on the Wiring Extension, **(Figure 24)**.
 - Push the Grommet into the hole in the bumper.
 - Plug the Extension into the factory wiring harness for the sensor. Repeat the previous Steps to attach the remaining Wiring Extension.
11. 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.

For stainless steel: Aluminum polish may be used to polish small scratches and scuffs on the finish. Mild soap may be used also to clean the Bull Bar.

For gloss black finishes: Mild soap may be used to clean the Bull Bar.

Passenger/right Side Installation Pictured



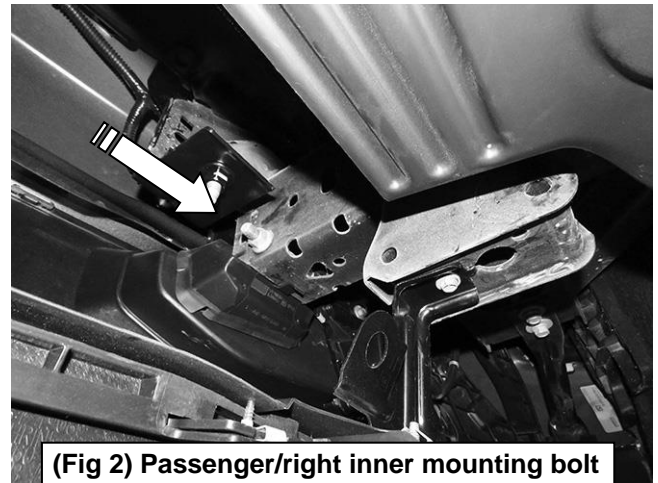
(Fig 1) Example of Tow hook



(Fig 3) Passenger/right outer mounting bolts for tow hook pictured from behind bumper

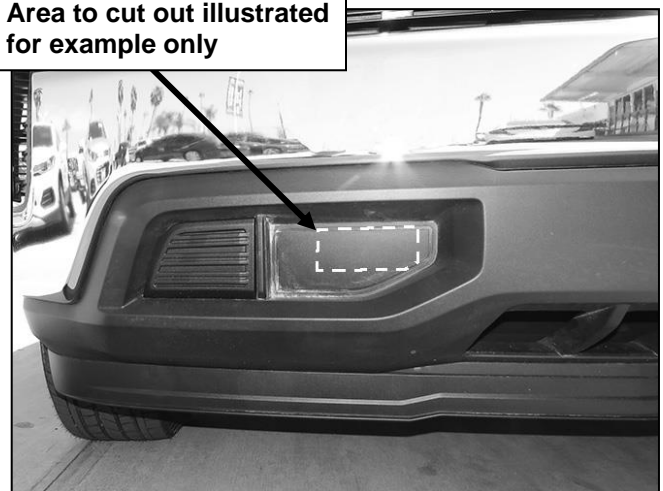


(Fig 5) Example of Tow hook



(Fig 2) Passenger/right inner mounting bolt for tow hook pictured from behind bumper

Area to cut out illustrated for example only



(Fig 4) Example of model without tow hooks

Driver/left Mounting Bracket Installation Pictured

NOTE: Figures 6—12 apply to tow hook removal on models equipped with turbo charger intercooler only (all diesel and 2.7ltr gas engines with turbo). Models with diesel and 2.7ltr gas engines without tow hooks skip to Figure 12.



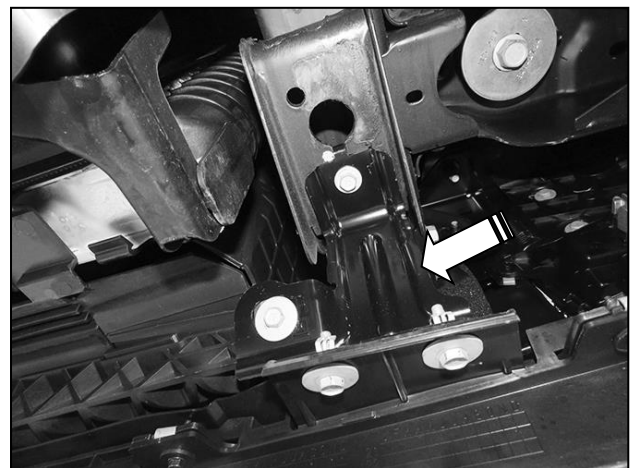
(Fig 6) Turbo Charged (gas and diesel models) with tow hooks only.
Remove cover from top of radiator and grille, (arrow), Remove screws/hardware attaching grille and pull grille to release clips



(Fig 7) Turbo Charged (gas and diesel models) with tow hooks only.
Firmly pull grille straight out from vehicle



(Fig 8) Turbo Charged (gas and diesel models) with tow hooks only.
Remove outer bumper supports (arrow)



(Fig 9) Turbo Charged (gas and diesel models) with tow hooks only.
Remove the lower bumper bracket

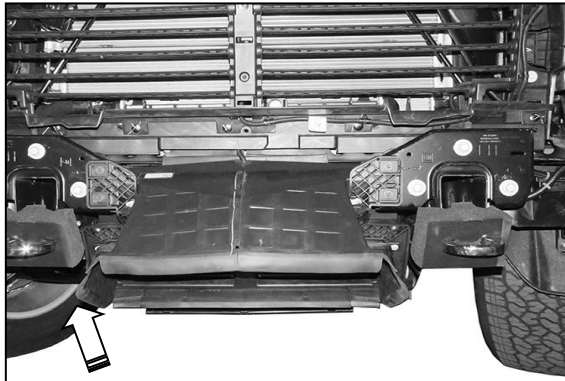
Driver/left Mounting Bracket Installation Pictured



(Fig 10) Turbo Charged (gas and diesel models) with tow hooks only. Pull back cover to locate and remove bumper bolts from above



(Fig 11) Turbo Charged (gas and diesel models) with tow hooks only. Remove the bolts and pins attaching the shutter to the vehicle. NOTE: The pins are located under the plastic cover (arrow)

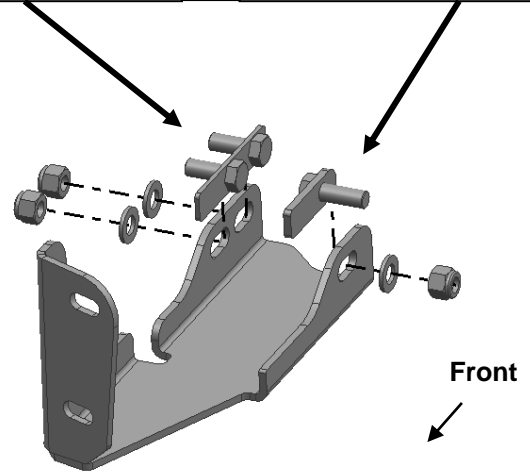


(Fig 12) Turbo Charged (gas and diesel models) with tow hooks only. Partially remove the shutter assembly to remove tow hooks and hardware (arrows)

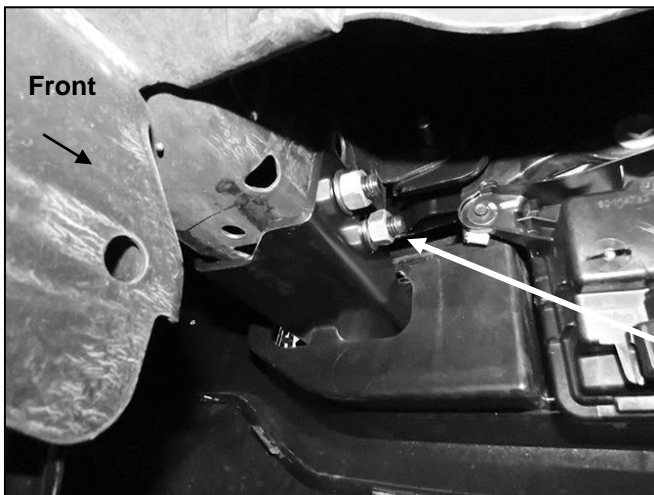
Passenger/right Side Installation Pictured

- (1) 12mm Double Bolt Plate
- (2) 12mm Flat Washers
- (2) 12mm Nylon Lock Nuts

- (1) 12mm Single Bolt Plate
- (1) 12mm Flat Washer
- (1) 12mm Nylon Lock Nut



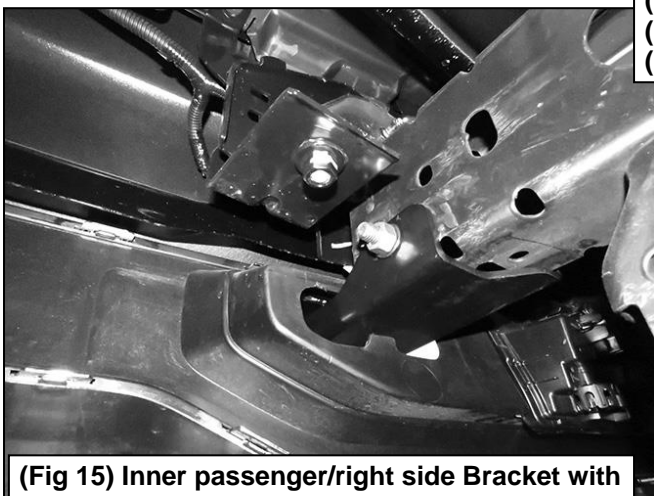
(Fig 13) Passenger/right side Bracket illustrated



(Fig14) Outer passenger/right side Bracket with Double Bolt Plate pictured from behind bumper

- (1) 12mm Double Bolt Plate
- (2) 12mm Flat Washers
- (2) 12mm Nylon Lock Nuts

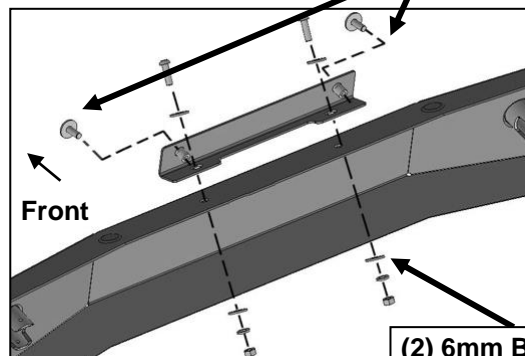
Driver Side Installation Pictured



(Fig 15) Inner passenger/right side Bracket with Single Bolt Plate pictured from behind bumper

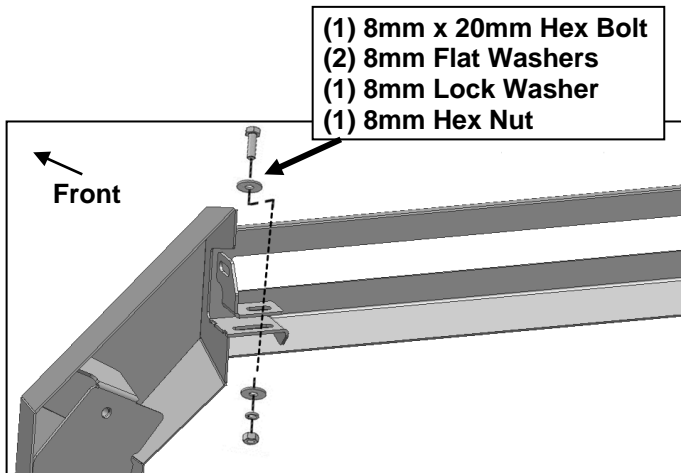
- (1) 12mm Single Bolt Plate
- (1) 12mm Flat Washer
- (1) 12mm Nylon Lock Nut

- (2) 6mm Combo Bolts

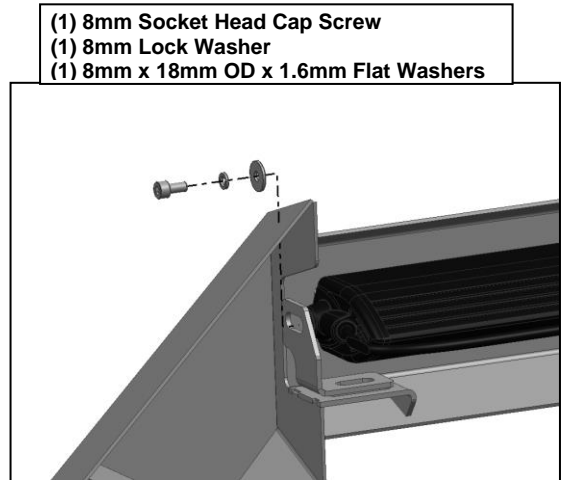


(Fig 16) License Plate Bracket attached to the Bull Bar

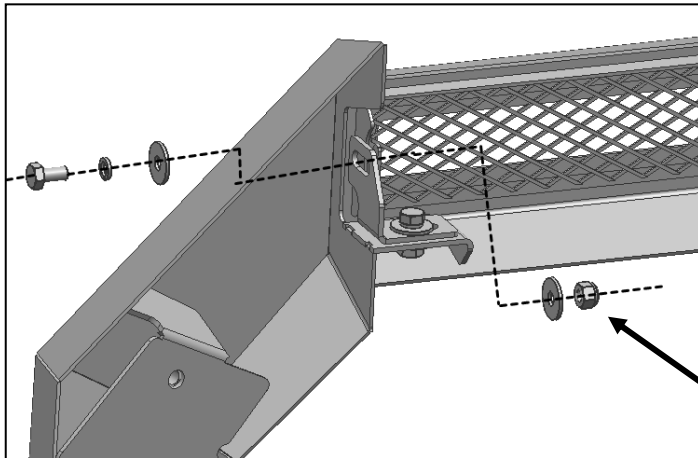
- (2) 6mm Button Head Bolts
- (4) 6mm Flat Washers
- (2) 6mm Lock Washers
- (2) 6mm Hex Nuts



(Fig 17) Driver side light bar Bracket attached to the Bull Bar

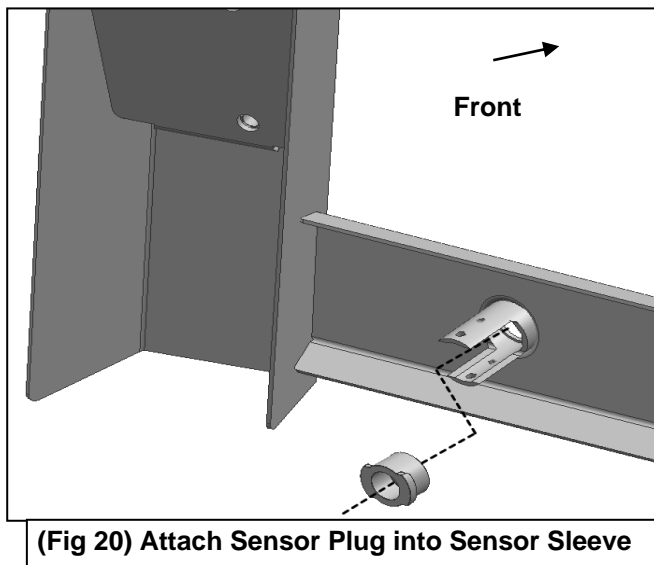


(Fig 18) Driver side light bar Bracket attached to the Bull Bar hardware

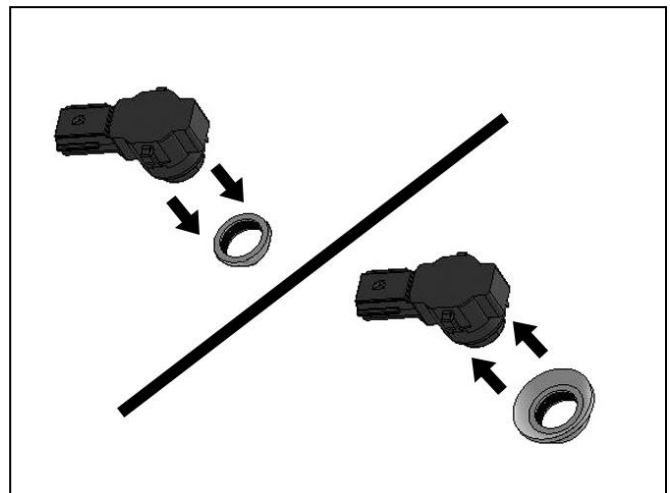


(Fig 19) Driver side light bar Bracket attached to Mesh hardware

Driver Side Installation Pictured

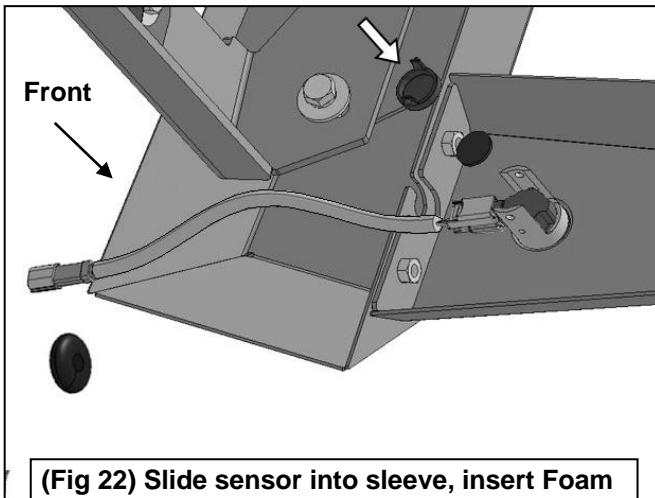


(Fig 20) Attach Sensor Plug into Sensor Sleeve



(Fig 21) Remove silicone seal from sensor. Slide large Seal over end of sensor (arrow)

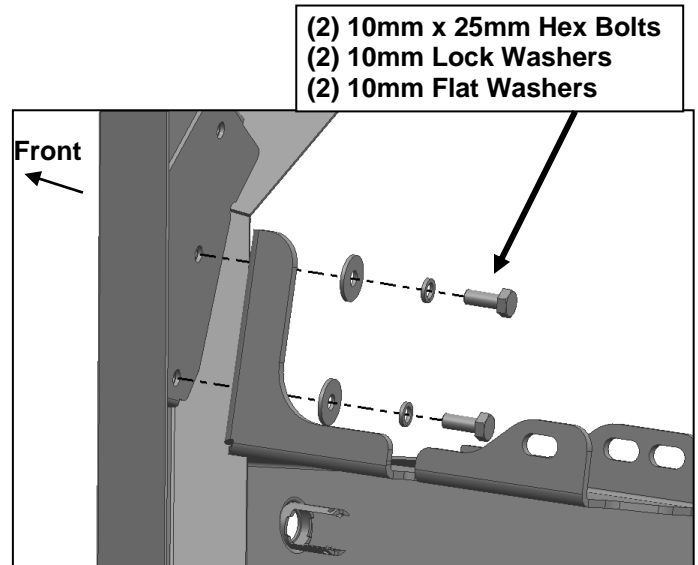
ARMOUR BULL BAR
 19-23 CHEVY SILVERADO 1500
 (EXCL. 19-21 1500 LD AND 22-24 MODELS WITH SUPER CRUISE SYSTEM
 & INCL. 2022 1500 LTD AND DIESEL MODELS WITH DEF TANKS)



(Fig 22) Slide sensor into sleeve, insert Foam Washer and Clip to lock sensor in sleeve



(Fig 24) Models with sensors, slide Grommet over small end of Harness Extension. Push Grommet into hole in bumper and attach to wiring harness



(Fig 23) Attach Bull Bar Bracket to back of Bull Bar