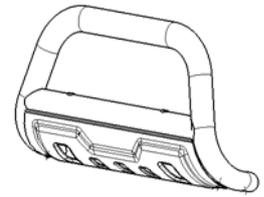




3.5" Oval Bull Bar

Part No. B1521B/S



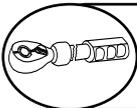
Fits: 2019 FORD RANGER



REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT.



READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION.



DO NOT OVER TORQUE. STANDARD OPERATING LOAD FOR TIGHTEN BODY MOUNT NUTS & BOLTS VARIES FROM 45 TO 65 FOOT POUND.



60-180 min



Cutting Is Required



Drilling Not Required



support@trailfx.com



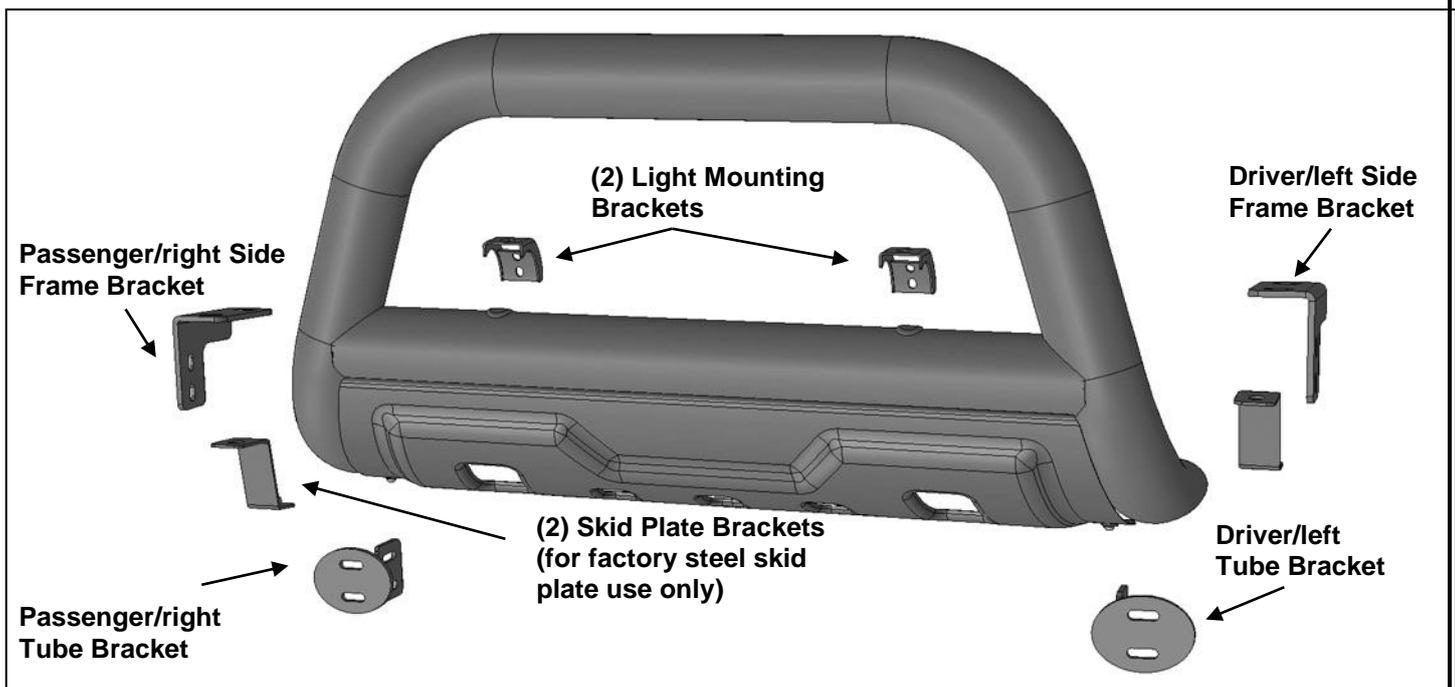
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POLISHED STAINLESS STEEL – LIMITED LIFETIME
POWDER COATED BLACK – 3 YEARS

PARTS LIST:

Qty	Part Description	Qty	Part Description
1	3.5in Bull Bar	4	10-1.5mm x 35mm Hex Bolts
1	Driver/left Frame Bracket	8	10mm x 27mm OD x 3 mm Flat Washers
1	Passenger/Right Frame Bracket	4	10-1.5mm Nylon Lock Nuts
1	Driver/left Tube Bracket	4	8-1.25mm x 35mm Hex Bolts
1	Passenger/Right Tube Bracket	4	8mm x 22mm x 2mm Flat Washers
2	Skid Plate Mounting Brackets	4	8mm Lock Washers
2	Light Brackets	4	6-1mm x 20mm Button Head Bolts
4	12-1.75mm x 45mm Hex Bolts	4	6mm x 18mm x 1.6mm Enlarged Flat Washers
4	12mm x 37mm OD x 3mm Flat Washers	4	6mm Lock Washers
4	12mm Lock Washers	1	4mm Wrench



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.

1. Start installation from under the front of the vehicle.
2. 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 plastic cover attached to the tow hook, **(Figure 1)**. Next, remove the tow hook from the bottom of the frame, **(Figures 2—4)**. On models with steel skid plate, temporarily remove skid plate, **(Figure 3)**.
- b. Proceed to **Step 3**.

Vehicles without tow hooks:

- a. Cut out the lower section of the indented area in both sides of the plastic bumper insert to clear the Brackets as pictured, **(Figure 5)**. **NOTE:** Hold the Frame Mounting Bracket up to the back of the bumper to determine area to cut to clear Bracket. **IMPORTANT:** Make several small cuts for best fit.
 - b. Insert the Mounting Brackets through the openings in the bumper to check for clearance around Brackets and hardware. Trim the plastic as required to clear the Brackets.
3. Select the driver/left Frame Mounting Bracket, **(Figure 6)**. Hold the Bracket up to the bottom of the frame. Line up the holes in the Bracket with the (2) mounting bolt holes for the tow hook. Attach the Bracket to the threaded holes in the frame with (2) 12mm x 45mm Hex bolts, (2) 12mm Lock Washers and (2) 12mm Flat Washers, **(Figures 6 & 7)**. **IMPORTANT:** Models with steel skid plate, attach (1) Skid Plate Bracket to the rear mounting Bolt, **(Figure 6)**. Leave hardware loose. Repeat this **Step** to attach the passenger/right Frame Bracket and Skid Plate Bracket if equipped.
 4. Next, select the driver/left Tube Bracket, **(Figure 8)**. Attach the Tube Bracket to the end of the Bull Bar with the included (2) 8mm x 35mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers, **(Figure 8)**. Center the flange on the Bracket with the tube and snug but do not fully tighten hardware. Repeat this **Step** to attach the passenger/right Tube Bracket.
 5. With assistance, hold the Bull Bar up in position on the outside of the Mounting Brackets. Attach the Bull Bar to the Brackets with (4) 10mm x 35mm Hex Bolts, (8) 10mm Flat Washers and (4) 10mm Nylon Lock Nuts, **(Figure 9)**. Do not tighten hardware at this time.
 6. Check the Bull Bar alignment with the vehicle and for clearance between the Bull Bar, light and the bumper. Adjust as required then tighten all hardware. Reinstall steel skid plate if equipped.
 7. Determine if accessory lights will be installed.

If lights will not be installed at this time:

- a. Insert the included (4) 6mm x 20mm Button Head Bolts, (4) 6mm Lock Washers and (4) 6mm Flat Washers into the threaded inserts in the back of the crossbar to plug the holes, **(Figure 10)**. Tighten hardware. Installation is complete.

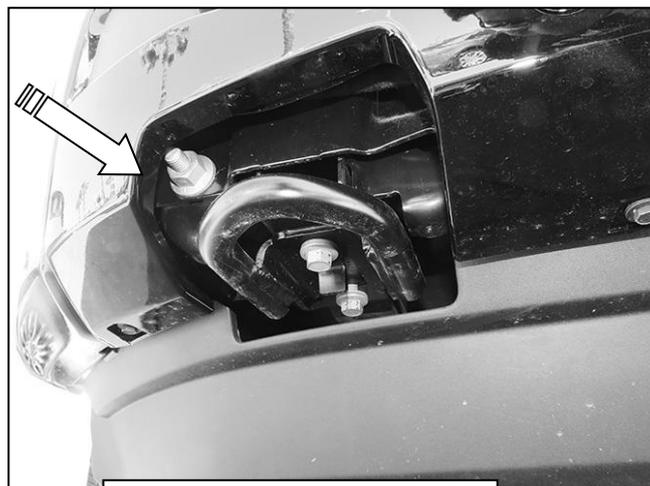
If aftermarket lights will be installed, (lights not included):

- a. Select (1) Light Mount, **(Figure 11)**. Use the hardware included with the light to attach the light to the top of the Light Mount. If light has a separate tilt feature, fully tighten base mounting hardware, **(See example Figure 12)**. If light adjusts with the base mounting hardware, skip to **Step 7b**.
 - b. Remove the rubber plug from the top of the crossbar. Attach the light and Light Mount to the back of the Bull Bar with the included (4) 6mm x 20mm Button Head Bolts, (4) 6mm Lock Washers and (4) 6mm Flat Washers, **(Figure 12)**. **NOTE:** If light adjusts with the base mounting hardware, hand-tighten the light hardware; do not fully tighten hardware at this time. You may have to install, adjust, remove light with Bracket and readjust a few times to get the light properly adjusted.
 - c. Once properly adjusted, tighten light to Bracket hardware then tighten Bracket to Bull Bar hardware.
 - d. Repeat the above **Steps 7a—7c** to install remaining light and Light Mount.
8. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

Passenger/right Side Installation Pictured



(Fig 1) Example of Tow hook



(Fig 2) Remove plastic cover surrounding tow hook

Driver/left Side Installation Pictured



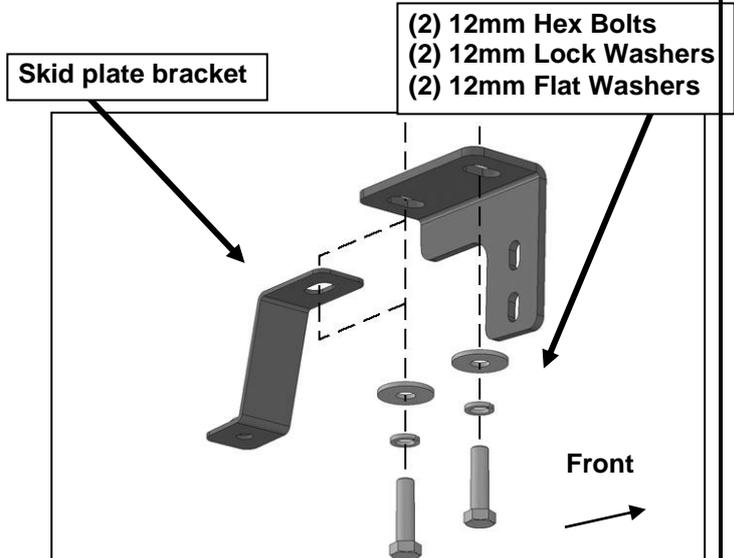
(Fig 3) Models with steel skid plate, temporarily remove skid plate to access tow hooks



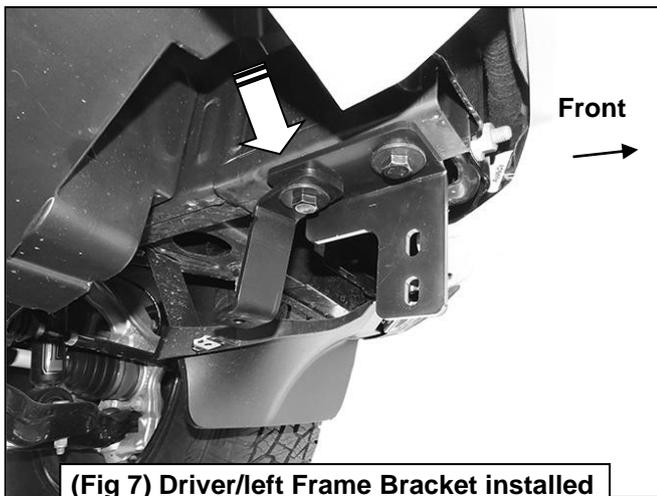
(Fig 4) Driver/left mounting location



(Fig 5) Models without tow hooks, cut openings in lower plastic cover to clear Brackets

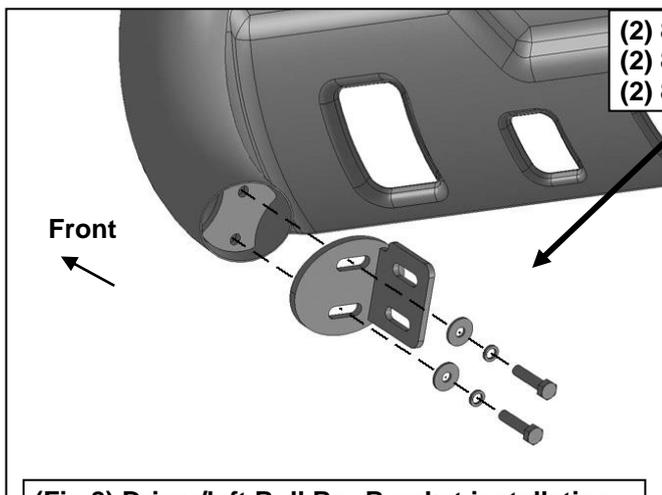


(Fig 6) Attach driver/left Frame Bracket to bottom of frame. Attach skid plate bracket to rear mounting bolt if equipped with steel skid plate



(Fig 7) Driver/left Frame Bracket installed with optional Skid Plate Bracket (arrow)

Driver/left Side Installation Pictured

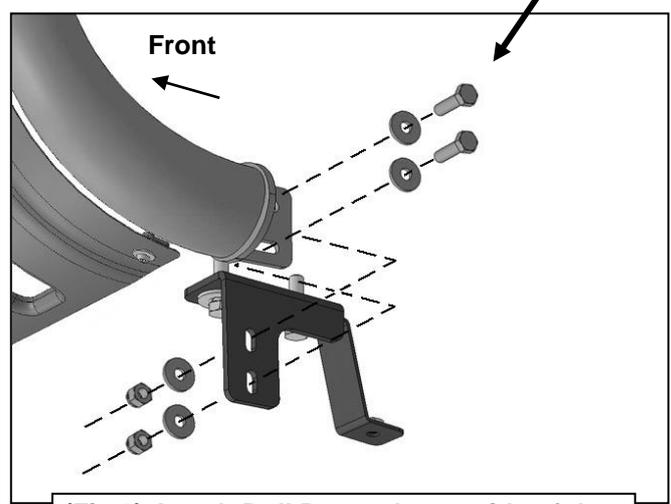


- (2) 8mm x 35mm Hex Bolts
- (2) 8mm Lock Washers
- (2) 8mm x 22mm Flat Washers

- (2) 10mm Hex Bolts
- (4) 10mm Flat Washers
- (2) 10mm Nylon Lock Nuts

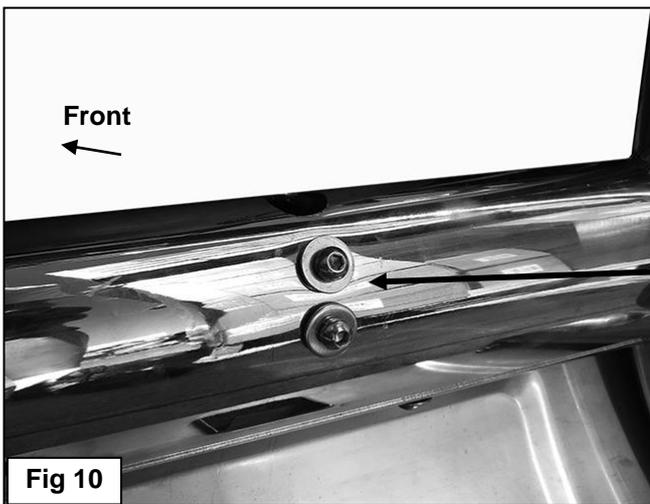
Front

(Fig 8) Driver/left Bull Bar Bracket installation



Front

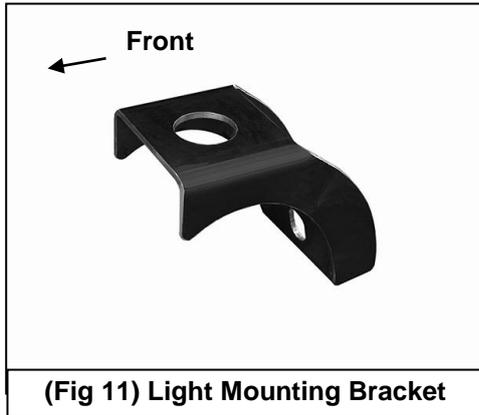
(Fig 9) Attach Bull Bar to the outside of the Brackets. Driver/left installation illustrated



Front

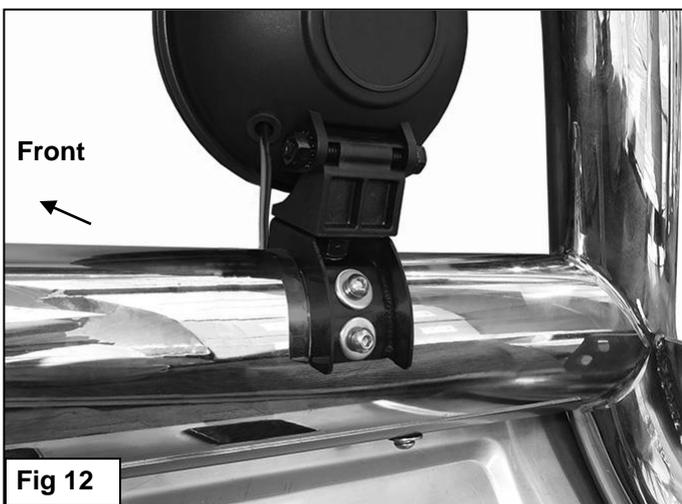
Fig 10

- (2) 6mm x 20mm Button Head Bolts
- (2) 6mm Lock Washers
- (2) 6mm Flat Washers



Front

(Fig 11) Light Mounting Bracket



Front

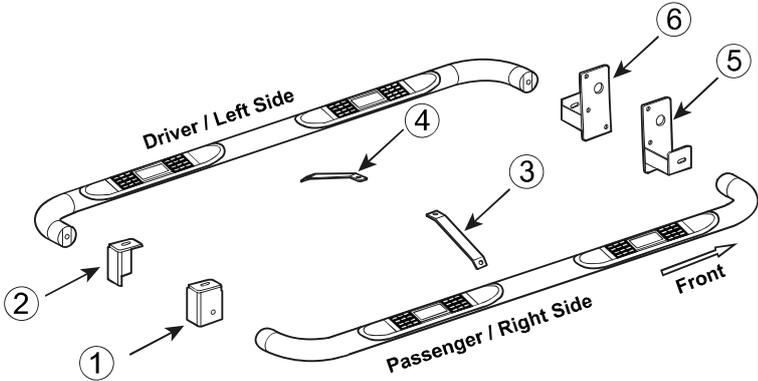
Fig 12

Light pictured for example only- light not included

No.	Parts Identification
1	Passenger / Right 'Rear' Bracket marked "PR"
2	Driver / Left 'Rear' Bracket marked "DR"
3	Passenger / Right 'Center' Bracket marked "PC"
4	Driver / Left 'Center' Bracket marked "DC"
5	Passenger / Right 'Front' Bracket marked "PF"
6	Driver / Left 'Front' Bracket marked "DF"

Note:

- This guide is to identify the parts and not a reference for part count.
- For part count, refer Parts List.
- Product / Bracket image is representative and actual design may vary.



PRODUCT CARE

- Periodically check the product to ensure all fasteners are tight and components are intact.
- Regular waxing is recommended to protect the finish of the product.
- **Use ONLY Non-Abrasive automotive wax.** Use of any soap, polish or wax that contains an abrasive is detrimental and can scratch the finish leading to corrosion.
- Aluminum polish may be used to polish small scratches and scuffs for **Stainless Steel finish.**
- Mild soap may be used to clean the product for both **Stainless Steel and Black finish.**

FAQ's

1. Hardware's are not of correct size.

In GMC / Chevrolet truck model 2006 & up, customer needs to reuse the factory body bolts to install the bracket. If your vehicle is not GMC / Chevrolet 2006 & up, ensure that holes are not partially covered with any plastic grommet or rust? If it is, remove the plastic grommet & rust from the thread holes & re-try the installation.

2. Mounting Bracket are not getting Installed properly.

In some cases Illustration images shown in Installation manual may not be the exactly same as per actual vehicle images ,also if Driver / Passenger side mounting brackets are very identical in the design, suggest referring Parts Identification guide to avoid fitment issue.

3. Products are thumping / rattling after installation.

Ensure that all required mounting brackets / hardware's are installed & tighten correctly. Suggest using white lithium / regular grease between the metal to metal contact surfaces.

4. Side Bar is not aligning with vehicle / Step Pads are not aligning with vehicle doors.

Side bar may be interchanged or mounting brackets are not installed at the correct position in the vehicle. Refer Parts identification guide.

5. Missing / Excess Hardware.

Recheck hardware count as per the part list.

6. Product not installing properly.

Ensure make model year, cab length and bed size of your vehicle is listed in the application. All installation steps are followed correctly.

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