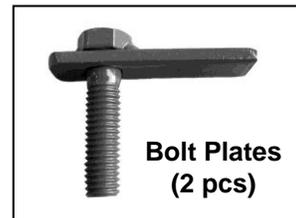
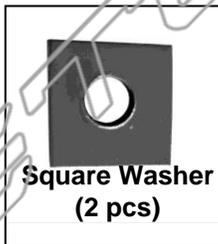


INSTALLATION INSTRUCTIONS

3" BULL BAR
99-04 F-150/250LD 2WD
PART #

PARTS LIST:

1	Bull Bar	2	12-1.75mm x 30mm Bolt Plates
1	Driver/Left Mounting Bracket	2	12-1.75mm x 140mm Hex Head Bolts
1	Passenger/Right Mounting Bracket	4	12-1.75mm x 35mm Hex Head Bolts
2	Square Washers	8	12mm Lock Washers
		8	12mm Hex Nuts
		14	12mm ID x 29mm OD x 3mm Flat Washers



PROCEDURE:

1. **REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION**
2. **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 license plate, license plate relocation kit is available.
3. **NOTE:** Cutting the bottom of bumper is necessary if vehicles are not equipped with tow hooks.

Vehicles with Tow Hooks Instructions

4. Starting on the driver side of the vehicle, remove tow hook by removing front bolt and loosening rear bolt sufficiently. **IMPORTANT!** Do not remove rear bolt completely. Once you remove the front bolt and loosen up the rear bolt, push back on the tow hook to disengage it from rear bolt. Tow hooks can be re-installed if desired (**Figure 1**).
5. Position Mounting Bracket on the inside of frame rail and secure the rear of Bracket to frame using the included (1) 12mm x 140mm Hex Head Bolt, (1) 12mm Lock Washer, (1) 12mm Hex Nut, (2) 12mm Flat Washers, and (1) Square Washer (**Figure 2 & 3**). **NOTE:** Place Square Washer on the outer side of frame.
6. Insert one of the Bolt Plates through front end of frame rail and orient bolt to push through inside front round hole in the frame rail side.
7. Attach the front end of Bracket to Bolt Plate using the included (1) 12mm Hex Nut, (1) 12mm Lock Washer, and (1) 12mm Flat Washer (**Figure 2**).
8. Position factory tow hook over Mounting Bracket and re-install tow hook back to the vehicle using the factory hardware.
9. Repeat steps 4 – 8 for opposite side. **NOTE:** Installation shown without tow hook.
10. Position Bull Bar on the outer side of Mounting Brackets. Use the included (4) 12mm x 35mm Hex Head Bolts, (4) 12mm Lock Washers, (4) Hex Nuts, and (8) 12mm Flat Washers (**Figure 6**).

Vehicles without Tow Hooks Instructions

11. Mark the centerline of lower air dam by locating the series of small fins on the backside of air dam. Locate the center small fin and use it as a centerline (**Figure 4**), measure and mark a line 17 ½" from center line to each side of the air dam (**Figure 5**). **NOTE:** Do not follow contour of air dam.
12. Cut a 3" diameter round hole on each marked location, 2" from the bottom of bumper and then trim to a "U" shaped cavity.
13. Starting on the driver side of the vehicle, position Mounting Bracket on the inside of frame rail and secure the rear of Bracket to frame using the included (1) 12mm x 140mm Hex Head Bolt, (1) 12mm Lock Washer, (1) 12mm Hex Nut, (2) 12mm Flat Washers, and (1) Square Washer (**Figure 2 & 3**). **NOTE:** Place Square Washer on the outer side of frame.
14. Insert one of the Bolt Plates through front end of frame rail and orient bolt to push through inside front round hole in the frame rail side.
15. Attach the front end of Bracket to Bolt Plate using the included (1) 12mm Hex Nut, (1) 12mm Lock Washer, and (1) 12mm Flat Washer (**Figure 2**).
16. Repeat steps 13 - 15 for opposite side.
17. Position Bull Bar on the outer side of Mounting Brackets. Use the included (4) 12mm x 35mm Hex Head Bolts, (4) 12mm Lock Washers, (4) Hex Nuts, and (8) 12mm Flat Washers (**Figure 6**).
18. Align Bull Bar properly, and then tighten all hardware at this time.
19. 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.

(Driver Side Installation Without Tow Hooks Shown)

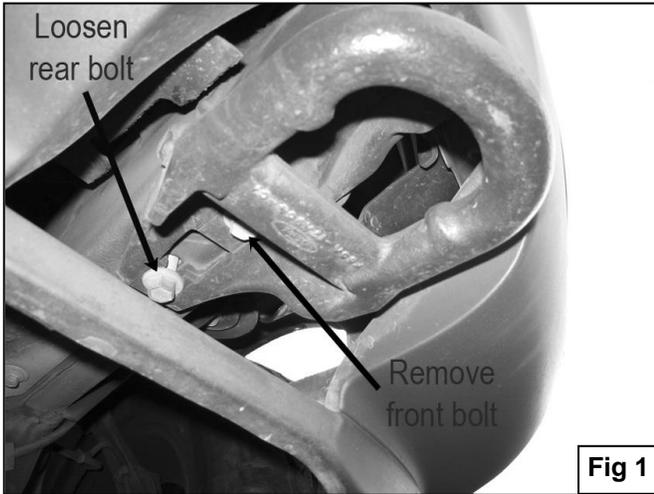


Fig 1

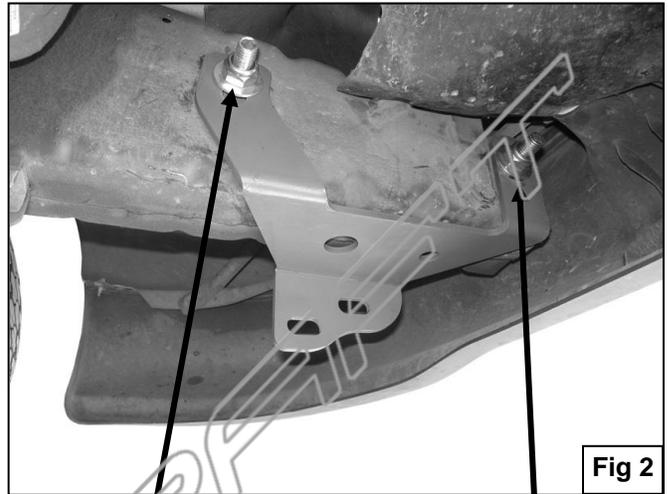


Fig 2

12mm x 140mm Hex Bolt
12mm Lock Washer
12mm Flat Washers
12mm Hex Nut

(Bolt plate)
12mm Lock Washer
12mm Flat Washers
12mm Hex Nut

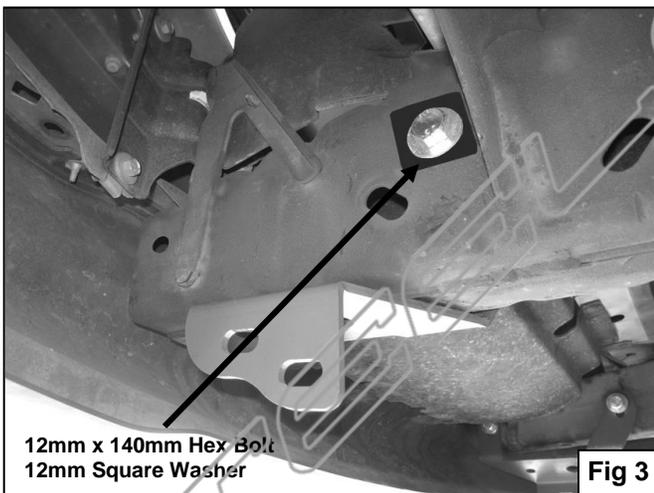


Fig 3

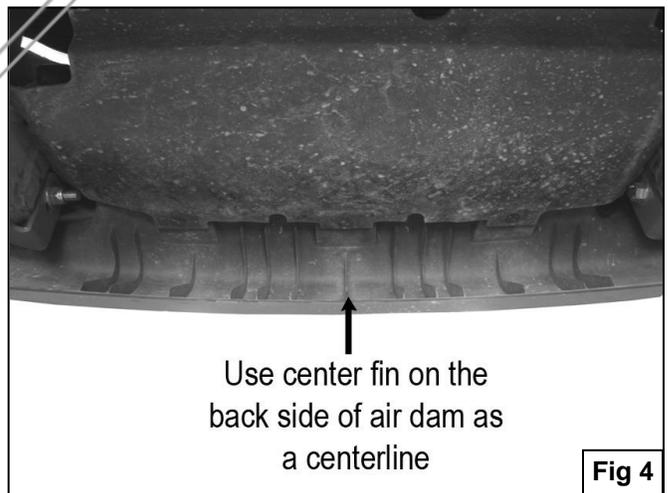


Fig 4

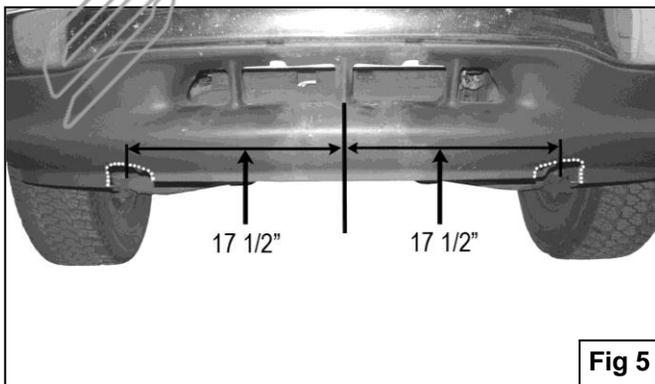


Fig 5



Fig 6