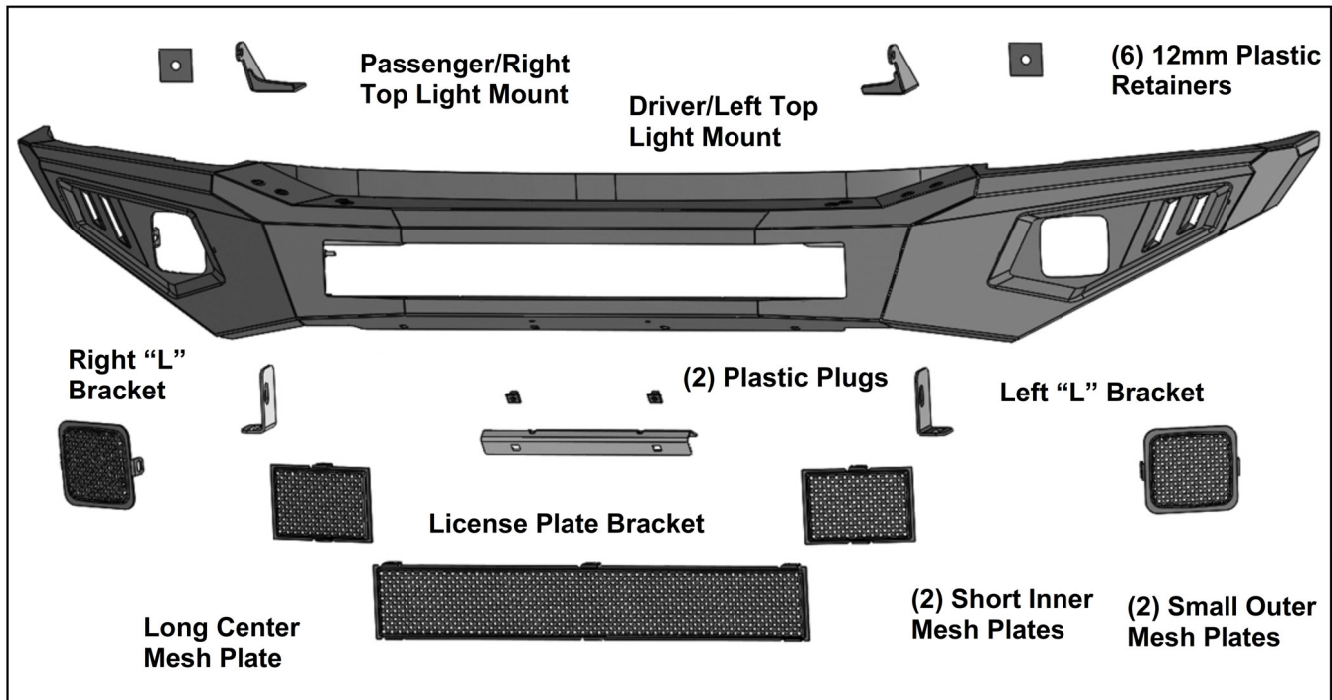




PARTS LIST: X3B-FORD52-FB

1	LD2 Front Bumper	2	8-1.25mm x 16mm Hex Bolts
1	Long Center Mesh Plate	14	8mm x 24mm x 2mm Flat Washers
2	Short Inner Mesh Plates	8	8mm Lock Washers
2	Small Outer Mesh Plates	6	8mm Hex Nuts
1	Driver/Left Bumper Top Light Mount	2	6-1.0mm x 20mm Button Head Bolts
1	Passenger/Right Bumper Top Light Mount	14	6-1.0mm x 20mm Combo Bolts
1	Driver/left "L" Bracket (center LED light)	2	6-1.0mm x 16mm Hex Bolts
1	Passenger/right "L" Bracket (center LED light)	6	6mm x 18mm x 1.6mm Flat Washers
1	License Plate Bracket	2	6mm Lock Washers
2	Plastic Plugs for license plate mount	14	6mm Flange Nuts
6	12mm Plastic Retainers	2	6mm Nylon Lock Nuts
4	8-1.25mm x 25mm Button Head Bolts	1	5mm Allen Wrench (for 8mm Button Bolts)
2	8-1.25mm x 25mm Hex Bolts	1	4mm Allen Wrench (for 6mm Button Bolts)



PROCEDURE: REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. BUMPER IS HEAVY, ASSISTANCE IS HIGHLY RECOMMENDED TO AVOID POSSIBLE INJURY OR DAMAGE TO THE VEHICLE.

1. Remove the license plate and bracket, **(Figure 1)**. Remove the plastic bumper pad assembly, **(Figure 2)**. **NOTE:** Carefully pull bumper pad straight out away from bumper. Unplug and remove the adaptive cruise control, if equipped, **(Figure 3)**.
2. Unplug the fog lights, if equipped, **(Figure 4)**. Release the wiring harness from the clips attached to the back of the bumper. Move all wiring harnesses away from bumper.
3. Place blocks or jack stands under the front bumper to support it during mounting bolt removal. Once the bumper has been safely supported, remove the large hex nut, (1 per side), from the back of the bumper bracket attaching the lower bumper to the bumper bracket, **(Figure 5)**. Next, from the front of the bumper, remove the (2) factory hex nuts attaching the bumper to the bumper brackets, **(Figure 6)**.

WARNING! Assistance is required to hold the bumper in place during bolt removal to prevent the bumper from falling. Carefully slide the bumper off over the tow hooks.

4. On models with bolt on frame extensions, remove the extensions from outside of frame, **(Figure 7)**.
NOTE: On some models the factory bolts may need to be cut to remove frame extensions.
5. Carefully unwrap the Bumper assembly. Determine if accessory lights, (not included), or Screen Fill Panels will be installed at this time. **NOTE:** It may be easier to install Center Fill Panels and/or lights before installing Bumper. **IMPORTANT:** On Ecoboost models, center LED Light installation is not recommended in the Bumper. Blocking the Ecoboost intercooler may cause overheating.

Screen Fill Panel Installation (do not install fill panels if installing lights).

- a. Select desired Screen Fill Panels. **NOTE:** Outer Panels are square with rounded corners, Inner panels are rectangular with sharp corners, **(Figure 8)**.
- b. Attach Screen Fill Panels as needed with the included 6mm Button Head Combo Bolts and 6mm Flange Nuts, **(Figures 8 & 9)**. Fully tighten Fill Panel hardware at this time. Repeat to install all Panels as desired.

Inner center LED bar style light installation (light not included).

- a. Select the driver/left "L" Light Bar Bracket. **NOTE:** "L" Brackets are offset to adjust for different widths of LED Bar Lights and can be installed on either side as needed.
- b. Attach the L Bracket to the slot on the back of the Bumper with (1) 8mm x 25mm Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, **(Figure 10)**. Repeat this Step to install the remaining "L" Bracket on the passenger/right side of the Bumper. **IMPORTANT:** The Bumper features slots designed for 20" and 30" bar style lights. Attach the Brackets to the correct slots in the Bumper. If necessary, hold the light up to the slots to help determine correct slots to use.
- c. Attach the light to the "L" Brackets with the hardware included with the light or the supplied (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers or (2) 6mm x 16mm Hex Bolts, (2) 6mm Lock Washers and (2) 6mm Flat Washers, **(Figure 10)**. Do not fully tighten hardware at this time.

Outer LED cube style light installation, (lights not included).

- a. Attach lights to the mounting tabs at the outer ends of the Bumper, **(Figure 8)**.
- b. Follow the light manufacturer's instruction to properly wire lights once Bumper is installed.

Top mounted 30" bar style LED light, (light not included). IMPORTANT: If installing the Front Hoop, (sold separately), then a top 30" Light, (not included), cannot be installed.

- a. Remove the (2) rubber plugs from the driver/left side mounting holes, **(Figure 11)**.
- b. Select the driver/left Light Bracket. Attach the Bracket to the top of the Bumper with (2) 8mm x 25mm Button Head Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts, **(Figure 11)**. Do not tighten hardware at this time.
- c. Repeat previous Steps to attach the passenger/right Bracket.
- d. Select the 30" light, (not included). Attach light to Top Brackets with the hardware included with the light. Adjust the width of the Brackets to the light and fully tighten bracket hardware.

IMPORTANT: Top Light Brackets are designed to install 30" bar style LED lights with outside length dimensions of 31.653" (804mm) to 32.44" (824mm) only. Fully tighten top light hardware.

6. Remove the factory double bolt plates from the end of the frame, **(Figure 12)**. Also remove the single bolt plate from the bottom of the bumper brackets on the back of the bumper, **(Figure 5)**. **NOTE:** It may be necessary to partially disassemble the factory bumper to remove the bottom bolt plates.
7. Select (1) factory double bolt plate, **(Figure 13)**. Insert the bolt plate through the back of the driver/left side mounting plate on the back of the bumper and out through the top slots, **(Figure 14)**. Thread (2) 12mm Plastic Retainers onto the double bolt plate and up tight against the mounting plate to secure in place. **NOTE:** The Plastic Retainers are used to hold the bolt plates in place and help in Bumper installation. Repeat Step to install (1) factory bolt plate with (1) 12mm Plastic Retainer to the bottom slot on the bumper mounting plate, **(Figure 14)**.
8. Repeat **Step 7** to install the factory bolt plates on the passenger/right side of the bumper.
9. With assistance, position the Bumper Assembly up to the frame. Temporarily support the weight of the Bumper. **WARNING:** To avoid possible injury or damage to the vehicle, do not proceed until the bumper is fully and safely supported.

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10. Reuse the (6) factory hex nuts to secure the Bumper to the factory bolt plates, **(Figure 15)**. Do not fully tighten hardware at this time.
11. Level and adjust the bumper and fully tighten all hardware.
12. Attach the License Plate Bracket to the holes in the bumper with the included (2) 6mm x 20mm Button Head Screws, (4) 6mm Flat Washers and (2) 6mm Nylon Lock Nuts, **(Figure 16)**. Insert (2) Plastic Plugs into the square holes in the Bracket. Reuse the factory screws to attach the license plate.
13. 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 Bumper assembly.



(Fig 1) Remove license plate from Bumper



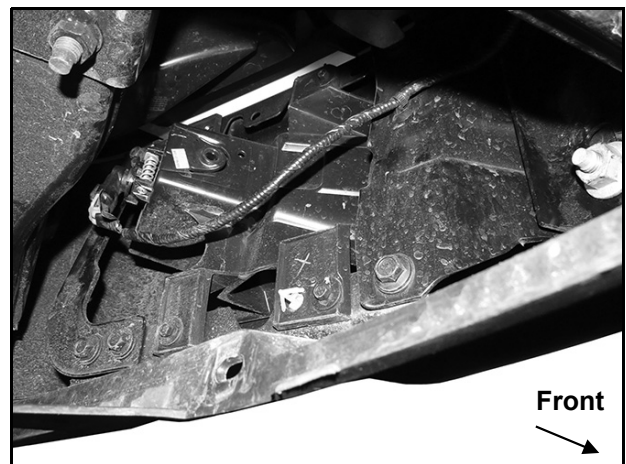
Front



(Fig 2) Remove the plastic bumper pad from the front of the Bumper



(Fig 3) Remove and unplug adaptive cruise control from driver/left side of frame, if equipped

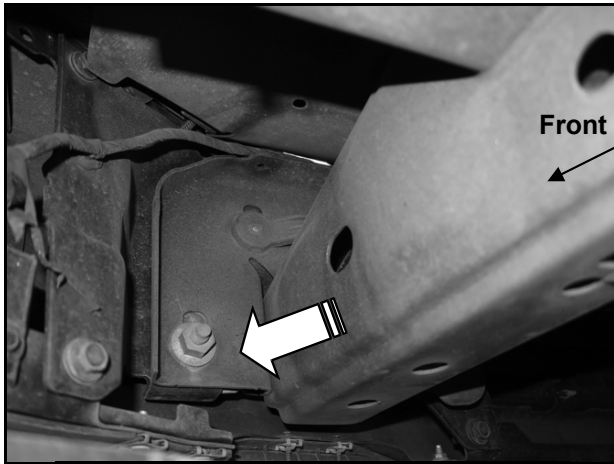


Front



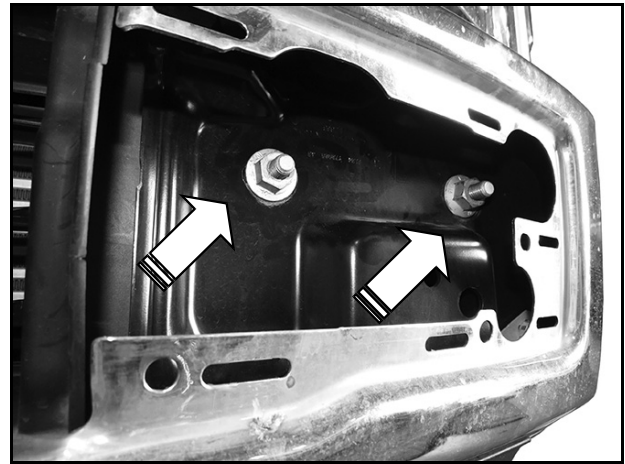
(Fig 4) Unplug and move factory wiring harness for fog lights (if equipped)

Driver Side Installation Pictured



(Fig 5) Remove factory hex nut (arrow) from back of bumper bracket

WARNING! Do not remove bumper bolts unless the bumper is properly supported on blocks or stands or it may fall.

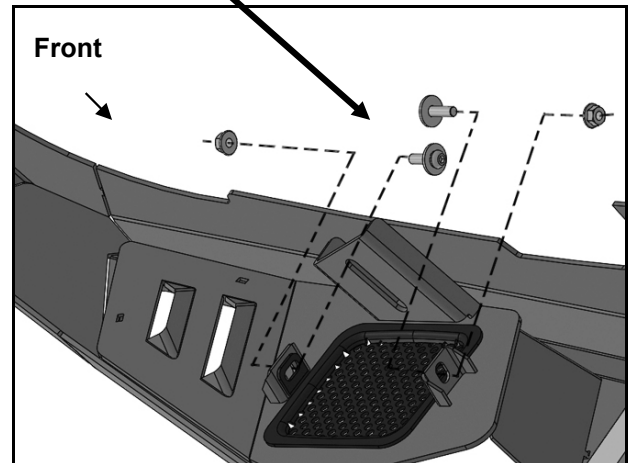


(Fig 6) Remove (2) factory hex nuts from each side

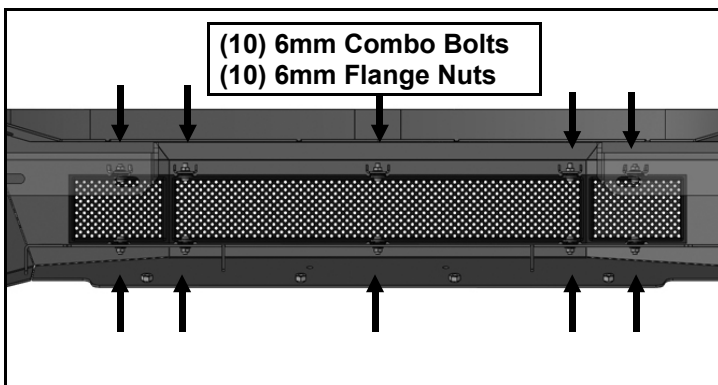


(Fig 7) Remove the factory frame extension, if equipped

(2) 6mm Combo Bolts
(2) 6mm Flange Nuts



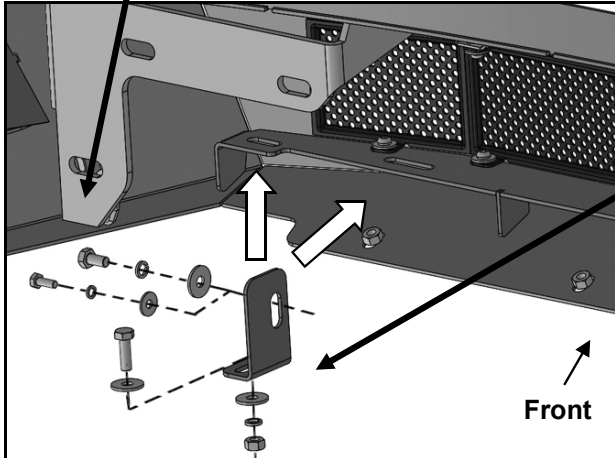
(Fig 8) Outer Mesh Plate attached to the back of the bumper



(Fig 9) Inner and Center Mesh Plates attached to the back of the bumper

Driver Side Installation Pictured

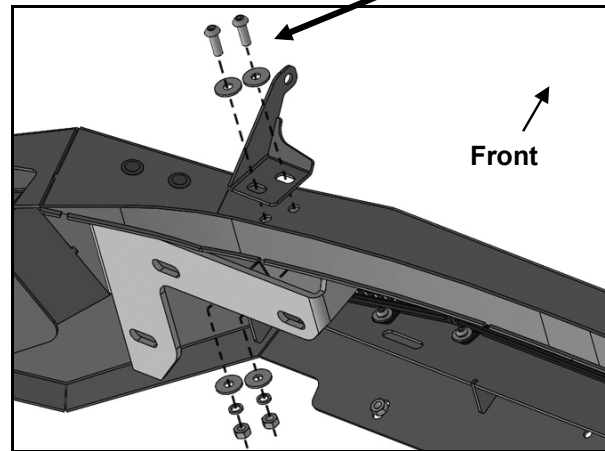
6mm x 16mm Hex Bolt
6mm Lock Washer
6mm Flat Washer
Or
8mm x 16mm Hex Bolt
8mm Lock Washer
8mm Flat Washer



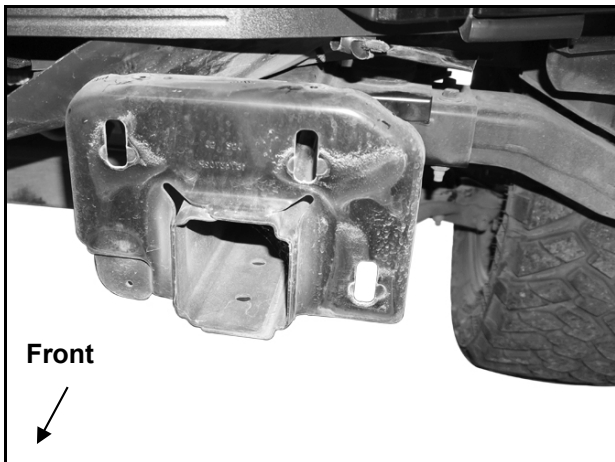
(Fig 10) Attach driver/left side "L" Bracket to the back of the bumper. NOTE: Mount the "L" Bracket to the proper slot for the light size

8mm x 25mm Hex Bolt
(2) 8mm Flat Washers
8mm Lock Washer
8mm Hex Nut

(2) 8mm x 25mm Button
Head Bolts
(4) 8mm Flat Washers
(2) 8mm Lock Washers



(Fig 11) Driver/left side Top Light Mount attached to top of bumper NOTE: Top Light bracket mounting location is designed for light assembly 31.65" (804mm) to 32.44" (824mm)



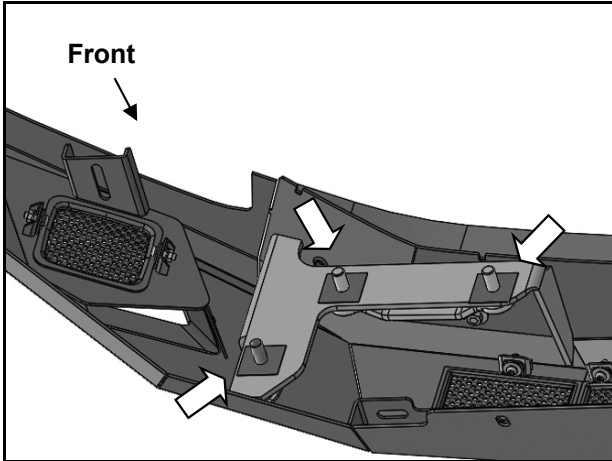
(Fig 12) Remove double bolt plates from end of frame. Also remove single bolt plates from back of factory bumper (driver/left side end of frame pictured)



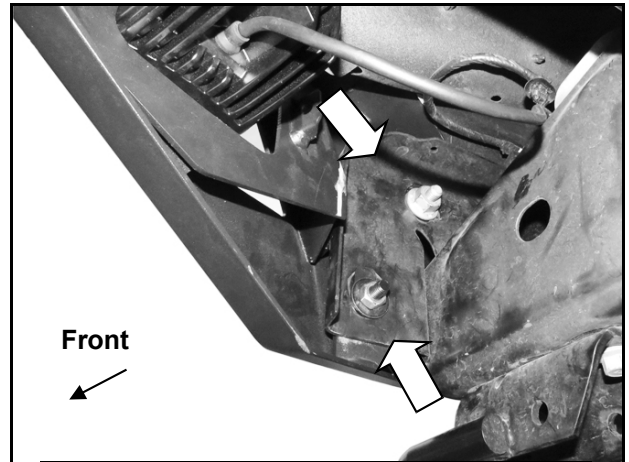
(Fig 13) factory double bolt plate

Driver Side Installation Pictured

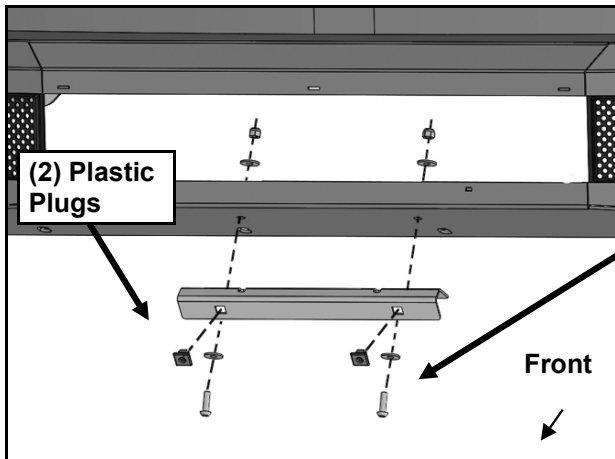
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**(Fig 14) Attach the factory bolt plates to the bumper brackets on the back of the bumper.
NOTE: Use (3) 12mm Plastic Retainers to hold the factory bolt plates in place**



(Fig 15) Reuse factory bolt plates and hex nuts to attach Bumper to end of frame



(Fig 16) Attach License Plate Bracket to Bumper



Complete Installation

Discover other off-road bumpers on our website.