



FB2 Mid Width Front Bumper w/o Winch Frame
INSTALLATION INSTRUCTIONS
 PART NO. RS-FFB-001

Fits:
 2021-2024 FORD BRONCO



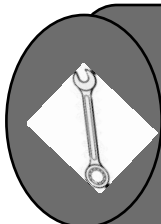
120-210 min
 Installation time is
 different according
 to individual person.



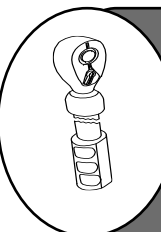
Cutting Not Required



Drilling Not Required



TOOLS REQUIRED
 SCREW DRIVER
 RATCHET SOCKET SET
 TORQUE WRENCH
 ALLEN WRENCH (PROVIDED)



DO NOT OVER TORQUE. PLEASE FOLLOW THE TIGHTEN OPERATING LOAD STANDARD BELOW:
6mm BOLTS & NUTS: FROM 7 TO 8.5 FOOT POUND.
8mm BOLTS & NUTS: FROM 18 TO 20 FOOT POUND.
10mm BOLTS & NUTS: FROM 35 TO 40 FOOT POUND.
12mm BOLTS & NUTS: FROM 60 TO 70 FOOT POUND.


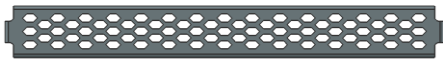






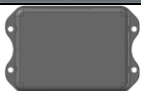



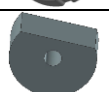







TO PROTECT YOUR INVESTMENT, DO NOT USE ANY TYPE OF POLISH OR WAX THAT MAY CONTAIN ABRASIVES THAT COULD DAMAGE THE FINISH. MILD SOAP MAY BE USED TO CLEAN THE PRODUCT.


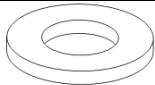









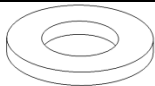






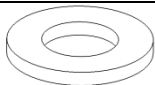
PARTS LIST:

| Description | Qty | Image | Remark |
|---|-----|-------|--------|
| LD Bumper | 1 | | |
| Bull Nose Hoop | 1 | | |
| DS/left LED "L" Top Bracket (for BN Hoop) | 1 | | |
| PS/right LED "L" Top Bracket (for BN Hoop) | 1 | | |
| DS/left LED "L" Bottom Bracket (for BN Hoop) | 1 | | |
| PS/right LED "L" Bottom Bracket (for BN Hoop) | 1 | | |
| DS/left LED "L" Bracket (center light bar) | 1 | | |

FB2 Mid Width Front Bumper w/o Winch Frame
2021-2024 FORD BRONCO

| | | | |
|---|------------|--|---------------|
| PS/right LED "L" Bracket (center light bar) | 1 |  | |
| Description | Qty | Image | Remark |
| Center Mesh Fill Panel (center light bar) | 1 |  | |
| Mesh Fill Panels (Cube LED) | 2 |  | |
| DS/Left Inner Frame Support Bracket | 1 |  | |
| PS/Right Inner Frame Support Bracket | 1 |  | |
| DS/Left Outer Frame Support Bracket | 1 |  | |
| PS/Right Outer Frame Support Bracket | 1 |  | |
| ACC Mounting Bracket | 1 |  | |
| ACC Plastic Sensor Cover | 1 |  | |
| Sensor Cover Kits | 6 |  | |
| Plastic Sensor Hole Plugs | 4 |  | |
| Sensor Retaining Caps | 4 |  | |
| 20mm x 10mm Foam Spacers | 4 |  | |
| 15.5mm x 25mm x 2mm Foam Sensor Seals | 4 |  | |
| License Plate Bracket | 1 |  | |
| Plastic Plugs for License Plate | 2 |  | |
| 12mm x 55mm Single Bolt Plates | 2 |  | |
| 12mm x 55mm Double Bolt Plates | 2 |  | |



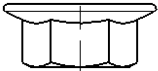





FB2 Mid Width Front Bumper w/o Winch Frame
2021-2024 FORD BRONCO

| 12mm Plastic Retainers | 6 |  | |
|------------------------------------|-----|---|--------|
| Description | Qty | Image | Remark |
| 12mm x 32mm x 3mm Flat Washers | 6 |  | |
| 12mm Lock Washers | 6 |  | |
| 12mm Hex Nuts | 6 |  | |
| 10-1.5mm x 110mm Hex Bolts | 2 |  | |
| 10mm x 30mm x 2.5mm Flat Washers | 4 |  | |
| 10mm Lock Washers | 2 |  | |
| 10mm Hex Nuts | 2 |  | |
| 8-1.25mm x 25mm Button Head Bolts | 4 |  | |
| 8-1.25mm x 25mm Hex Bolts | 6 |  | |
| 8-1.25mm x 16mm Hex Bolts | 4 |  | |
| 8mm x 24mm x 2mm Flat Washers | 20 |  | |
| 8mm Lock Washers | 14 |  | |
| 8mm Hex Nuts | 6 |  | |
| 8mm Flanged Nuts | 4 |  | |
| 6-1.0mm x 25mm Button Head Bolts | 7 |  | |
| 6-1.0mm x 20mm Button Head Bolts | 2 |  | |
| 6mm x 20mm Button Head Combo Bolts | 4 |  | |
| 6mm x 18mm x 1.6mm Flat Washers | 10 |  | |

FB2 Mid Width Front Bumper w/o Winch Frame
2021-2024 FORD BRONCO

| | | | |
|------------------------------------|---|---|--|
| 6mm x 12mm x 1.6mm Flat Washers | 4 |  | |
|------------------------------------|---|---|--|

**FB2 Mid Width Front Bumper w/o Winch Frame
2021-2024 FORD BRONCO**

| Description | Qty | Image | Remark |
|-------------------------|-----|--|--------------------------|
| 6mm Lock Washers | 7 |  | |
| 6mm Hex Nuts | 7 |  | |
| 6mm Flanged Nuts | 4 |  | |
| 6mm Nylon Lock Nuts | 2 |  | |
| Allen Wrench S=5 | 1 |  | |
| Allen Wrench S=4 | 3 |  | |
| 4mm Self Tapping Screws | 8 |  | |
| Nylon Wire Ties | 10 |  | Use for wire tightening. |

PROCEDURE:

REMOVE CONTENTS FROM BOX AND VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY. ASSISTANCE IS RECOMMENDED.

1. Start installation from under the front of the vehicle and **remove the splash guard, (Figure 1).**
2. Determine if the vehicle is equipped with plastic bumper cover or steel option bumper.

Models with plastic bumper cover:

- a. Remove the plastic covers from the front of the bumper, **(Figures 1 & 2).**

Models with optional steel bumper:

- a. Remove the covers surrounding the tow hooks, **(Figure 3).**
3. Unplug the wiring harness leading to the front bumper. **NOTE:** Harness plug is located behind the driver/left side of the bumper below the headlight, **(Figure 3).**

**FB2 Mid Width Front Bumper w/o Winch Frame
2021-2024 FORD BRONCO**

4. From the front, remove the factory hex bolts attaching the bumper assembly to the end of the frame, **(Figures 2—4)**. **NOTE:** Use assistance to hold the bumper in place while removing the mounting bolts.
5. On models with plastic bumper only, remove the seals around the lower tow hooks.
6. Temporarily unplug and remove the shutter assembly, **(Figure 4—6)**.

Models with ACC (adaptive cruise control) sensor.

- a. Remove the sensor from the front of the shutter assembly, **(Figure 5)**.
 - b. Release the wiring harness from the clips on the back of the shutter assembly, **(Figure 6)**.
 - c. Reroute the ACC plug end of the harness down through the hole in the top of the shutter assembly and out through the front, **(Figure 7)**.
7. **Remove the plastic nuts** attaching the triple nut plate to the back of the driver/left bumper mounting flange on the end of the frame, **(Figure 8)**. **Remove the triple nut plate.**
8. Select the driver/left inner and outer Support Brackets, **(Figure 9)**. Attach the Support Brackets to the sides of the frame with the included (1) 10mm x 110mm Hex Bolt, (2) 10mm Flat Washers, (1) 10mm Lock Washer and (1) 10mm Hex Nut, **(Figures 9 & 10)**. Push Support Brackets up against back of flange on frame, **(Figure 10)**.
9. **Repeat Steps 7 & 8** to attach the passenger/right Inner and Outer Support Brackets.
10. Reinstall the shutter assembly to the vehicle. **IMPORTANT:** Replace the (2) factory hex bolts attaching the upper shutter brackets to the top of the frame with the factory included (2) 6mm x 20mm Hex Bolts, (2) 6mm Lock Washers and (2) 6mm Flat Washers, **(Figure 11)**.
11. Carefully **unwrap** the Bumper. Temporarily remove (6) 6mm Button Head Combo Bolts and (6) 6mm Flange Nuts that attach the center Cover Plate to the bumper. **Save this hardware for later, (Figure 12)**
12. Determine if the vehicle is equipped with ACC sensor (Adaptive Cruise Control), and parking sensors.

Models with ACC sensor:

- a. Gently pull the end of the harness out from the shutter assembly, **(Figure 13)**. Do not pull out the harness, only extend the plug end of the harness.
- b. Select the rectangular Sensor Mounting Bracket, **(Figure 14)**. Attach the ACC sensor to the Bracket with the included (3) 6mm x 25mm Button Head Bolts, (6) 6mm x18mm Flat Washers, (3) 6mm Lock Washers and (3) 6mm Hex Nuts, **(Figure 15)**.
- c. Attach the ACC sensor and Bracket assembly along with the Plastic Cover with the included (4) 6mm x 25mm Button Head Bolts, (4) 6mm x18mm Flat Washers, (4) 6mm Lock Washers and (4) 6mm Hex Nuts to the mount bracket on the front of the Bumper assembly, **(Figures 16 & 17)**. The ACC sensor and bracket assembly will mount to the back of the Bumper bracket and the plastic cover will mount to the front. Center the assembly in the slots of the Bumper mount bracket and fully tighten hardware.

Models without parking sensors:

- a. From the front of the bumper, push the included Plastic Plugs into the Sensor Mounts, **(Figure 18)**.

Models with parking sensors:

- a. Remove sensors and wiring harness from the factory bumper. Note the location of each sensor for proper reinstallation.
- b. Remove the silicone seal from the end of the sensor. Slide the included larger Sensor Seal over front of sensor, **(Figure 19)**.
- c. Insert sensor with Seal into sensor mount on back of Bumper, **(Figure 20)**.
- d. Place Foam Spacer over end of sensor. Push Sensor Retaining Cap onto sensor mount and secure the assembly with the included (2) Self Tapping Screws **(Figure 20)**.
- e. Repeat previous Steps to install remaining sensors.
- f. Install the factory wiring harness and plug into sensors. Attach harness to back of Bumper.

13. Select driver/left LED “L” Bracket for center LED light. Attach the LED bracket to the bumper with (1) 8mm x 25mm Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Lock Washer, and (1) 8mm Hex Nut. **Repeat this step** to attach the passenger/right LED “L” Bracket, **(Figure 21)**

14. Determine if Mesh Fill Panels or LED accessory lights will be installed. **NOTE:** Lights not included.

Mesh Fill Panel installation (do not install lights with Fill Panels):

- a. Select driver/left Fill Panel. Attach Fill Panel to tabs on back of Bumper with the included (2) 6mm Button Head Combo Bolts and (2) 6mm Flange Nuts, **(Figure 22)**. Repeat this **Step** to attach the passenger/right Fill Panel.
- b. Select the center Fill Panel. Attach Fill Panel to the LED “L” Brackets from **Step 13** with (2) 8mm x 25mm Hex Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers, and (2) 8mm Hex Nuts, **(Figure 23)**

Light installation (do not install Mesh Fill Panels):

- a. Attach cube style lights to tabs at top of square openings in Bumper, **(Figure 21)**.
- b. Attach bar style LED light to LED “L” Brackets from **Step 13** with (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers, and (2) 8mm Flat Washers, **(Figure 24)** **Note:** This location is designed to fit a standard **20in Single Row** bar style LED light

15. Attach the Top Hoop to the top of the Bumper with the included (4) 8mm x 25mm Button Head Bolts, (4) 8mm Flat Washers, (4) 8mm Lock Washers and (4) 8mm Flanged Nuts, **(Figure 25)**. **NOTE:** Hoop must be installed before Bumper is attached to vehicle. Fully tighten Hoop hardware.

16. Insert (1) 12mm Single Bolt Plate through the outer mounting hole in the Mounting Bracket and Bumper, **(Figure 26)**. Thread (1) 12mm Plastic Retainer onto the Bolt Plate to help hold it in place, **(Figure 26)**. Repeat this Step to attach (1) 12mm Double Bolt Plate to the (2) inner mounting holes, **(Figure 26)**. **NOTE:** Plastic Retainers are supplied to help with Bumper installation, use is not mandatory.

17. Repeat **Step 16** to attach the Bolt Plates to the passenger/right side of the Bumper.

18. With assistance, hold the Bumper assembly up to the end of the frame and Support Brackets. Guide the Bolt Plates through the frame and Brackets. Attach the driver/left end of the Bumper to the frame

FB2 Mid Width Front Bumper w/o Winch Frame
2021-2024 FORD BRONCO

and Brackets with the included (3) 12mm Flat Washers, (3) 12mm Lock Washers and (3) 12mm Hex Nuts, **(Figure 27—29)**. Repeat this **Step** to attach the passenger/right side of the Bumper.

19. Center the Bumper to the vehicle and fully tighten all hardware.
20. Models with ACC sensor, plug wiring harness into sensor, **(Figure 30)**
21. Models with front license plate, attach the included License Plate Bracket onto the center Cover Panel with (2) 6mm x20mm Button Head Bolts, (4) 6mm x12mm Flat Washers, and (2) 6mm Nylon Lock Nuts, **(Figure 31)**. Snap the included (2) Plastic Plugs into the Bracket.
22. Reinstall the center Cover Panel onto the bumper assembly using the hardware from **Step 12 (Figure 32)**
23. Determine if bar style LED light will be installed on Hoop. **NOTE:** Light not included.

Upper LED Light Installation with Hoop, (LED Light Bar and Hoop installation optional):

Models without Front License Plate:

- a. Select the Left and Right “L” Top Brackets. Attach Brackets below Hoop with the included (2) 8mm x 25mm Hex Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts, **(Figure 33)**.
- b. Attach the LED Light Bar to the Brackets with the included (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm x 24mm Flat Washers, **(Figure 33)**.

Models with Front License Plate:

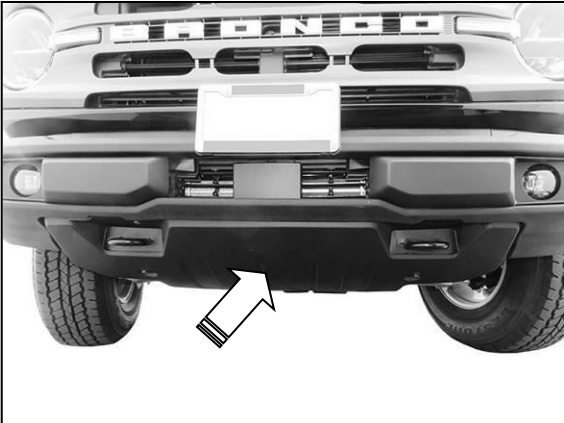
- a. Select the Left and Right “L” Bottom Brackets. Attach Brackets above Hoop with the included (2) 8mm x 25mm Hex Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts, **(Figure 34)**.
- b. Attach the LED Light Bar to the Brackets with the included (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm x 24mm Flat Washers, **(Figure 34)**.

24. All models, reinstall the lower splash guard.

Do periodic inspections to the installation to make sure that all hardware is secure and tight.

**FB2 Mid Width Front Bumper w/o Winch Frame
2021-2024 FORD BRONCO**

Driver/left Side Installation Pictured



**(Fig 1) Remove splash guard (arrow).
Model with plastic bumper cover pictured.**



**(Fig 2) Models with plastic bumper cover
(see Fig 1), remove bumper pads from
bumper (driver/left side pictured)**

**Unplug wiring harness leading to the front
bumper. Remove hex bolts to remove
bumper**



**(Fig 3) Model with steel bumper, remove
cover from bumper (driver/left side
pictured)**



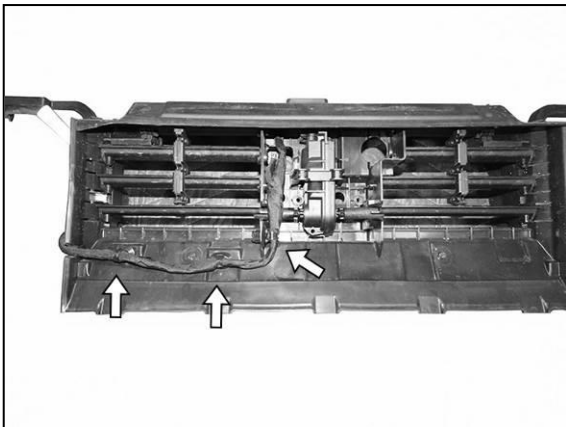
**(Fig 4) Remove factory hex bolts from
front to remove bumper assembly**



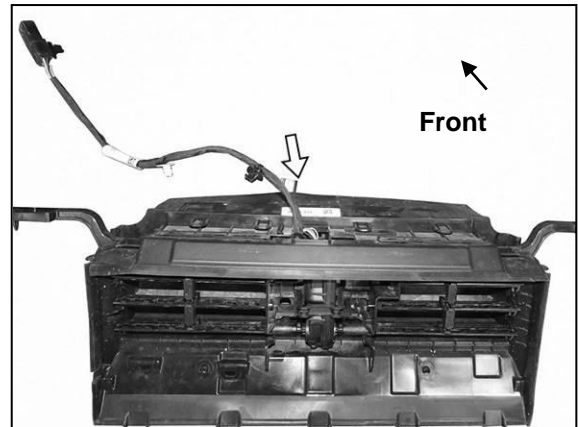
**(Fig 5) Remove the shutter assembly.
Models with ACC sensor (pictured),
unplug and remove sensor from shutter**

**FB2 Mid Width Front Bumper w/o Winch Frame
2021-2024 FORD BRONCO**

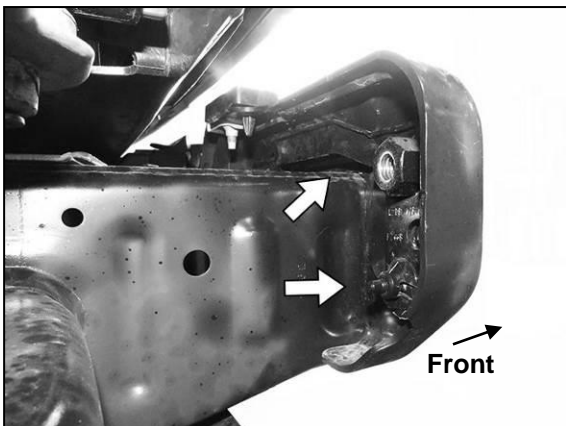
Driver/left Side Installation Pictured



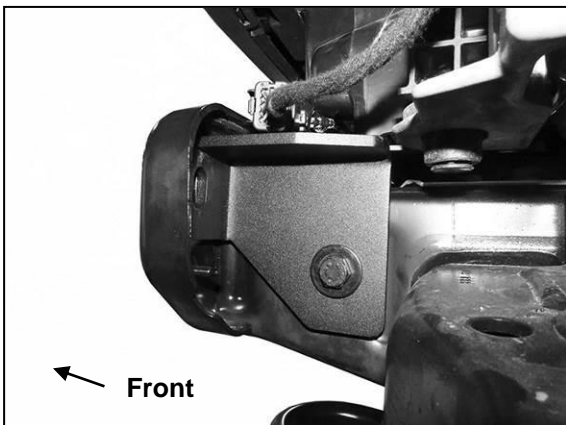
(Fig 6) Models with ACC sensor, remove the wiring harness to the sensor (arrows)



(Fig 7) Models with ACC sensor, insert the ACC plug end down through the hole in the top of the shutter assembly and out through the front (arrow-also see Fig 11)

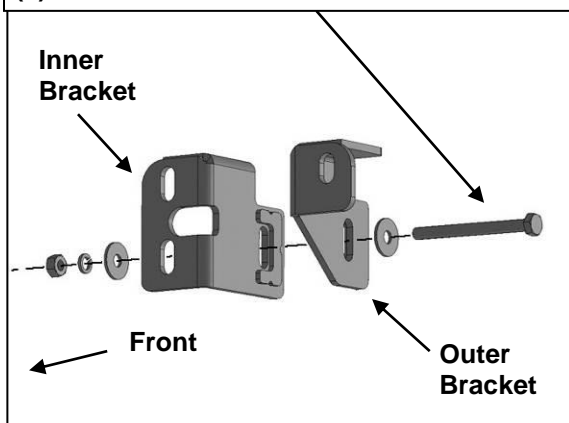


(Fig 8) Remove plastic nuts to remove the triple nut plates (arrows). Passenger/right side pictured



(Fig 10) Driver/left side Outer Support Bracket pictured

- (1) 10mm x 110mm Hex Bolt
- (2) 10mm Flat washers
- (1) 10mm Lock Washer
- (1) 10mm Hex Nut

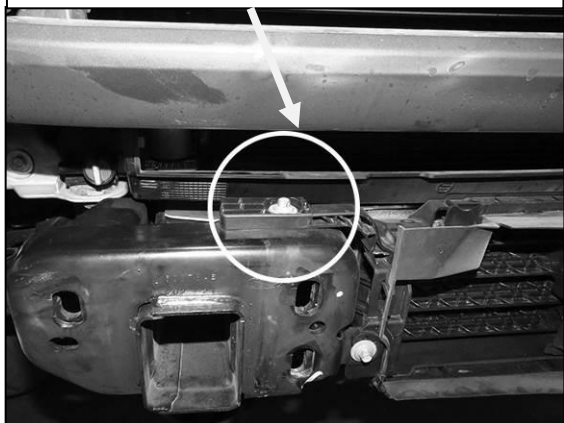


(Fig 9) Attach driver/left Inner and Outer Support Brackets to end of frame

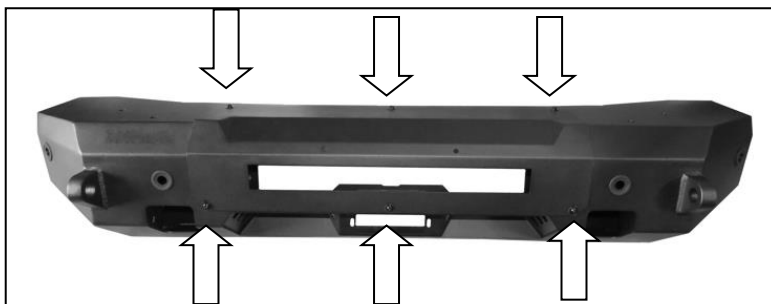
FB2 Mid Width Front Bumper w/o Winch Frame 2021-2024 FORD BRONCO

Driver/left Side Installation Pictured

- (1) Factory 6mm x 20mm Hex Bolt
- (1) Factory 6mm Lock Washer
- (1) Factory 6mm Flat Washer

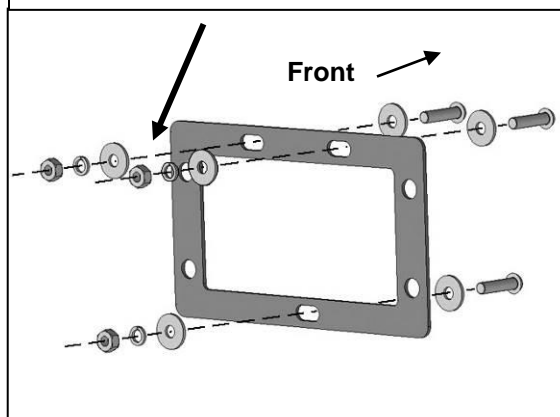


(Fig 11) Reinstall shutter assembly. Replace factory top bolts (circle-1 per side) with included hardware.

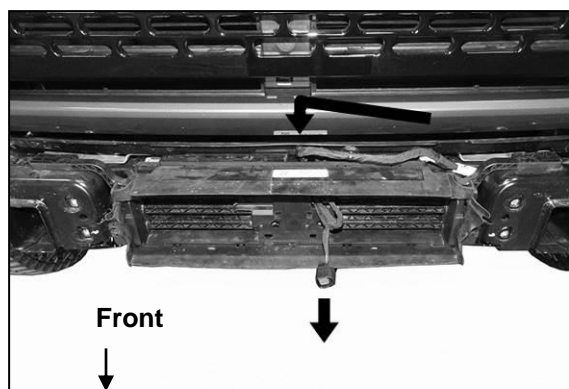


(Fig 12) Temporarily remove center cover plate

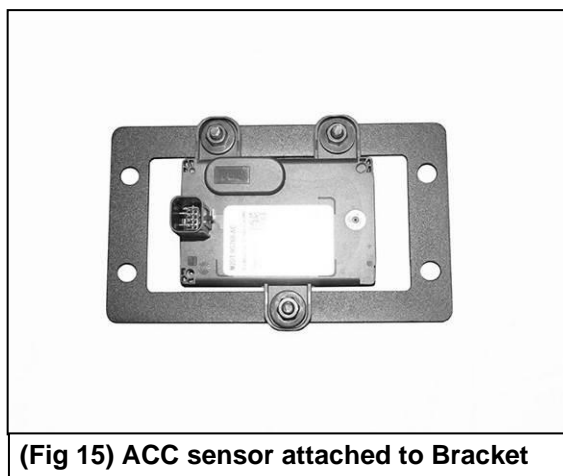
- (3) 6mm x 25mm Button Head Bolts
- (6) 6mm x 18mm Flat Washers
- (3) 6mm Lock Washers
- (3) 6mm Hex Nuts



(Fig 14) Models with ACC sensor, attach sensor to back of Mounting Bracket

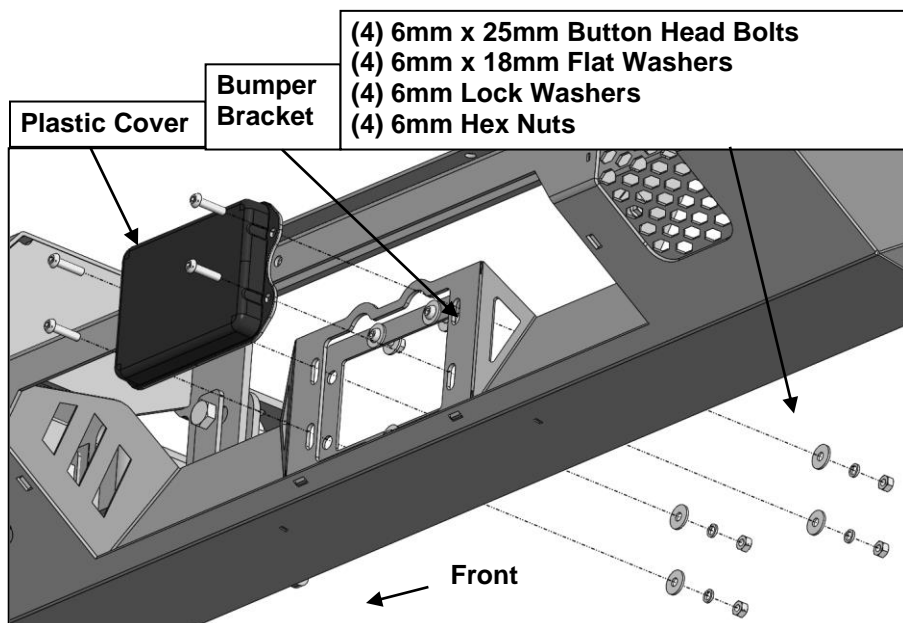


(Fig 13) Gently pull end of harness out through front of shutter assembly until it stops



(Fig 15) ACC sensor attached to Bracket

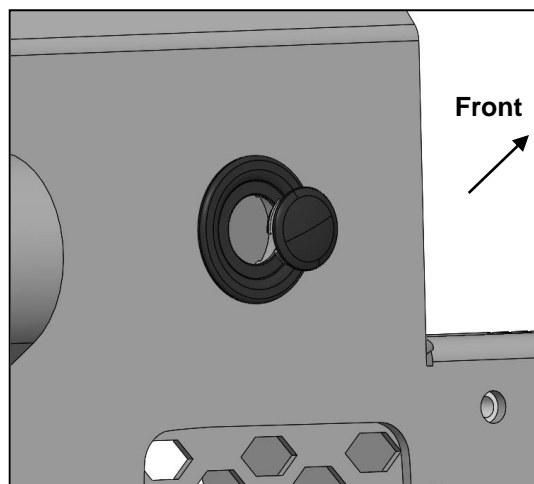
Driver/left Side Installation Pictured



(Fig 16) Model with ACC sensor, attach Plastic Cover to front side of Bumper Bracket and attach sensor and Mounting Bracket to back of Bumper Bracket.



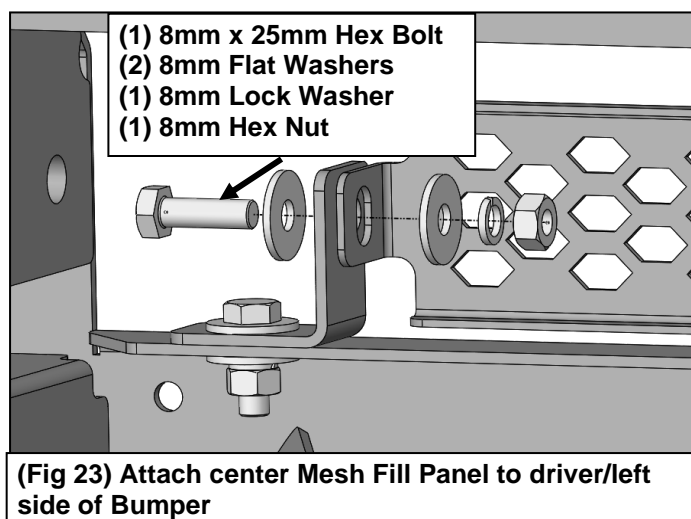
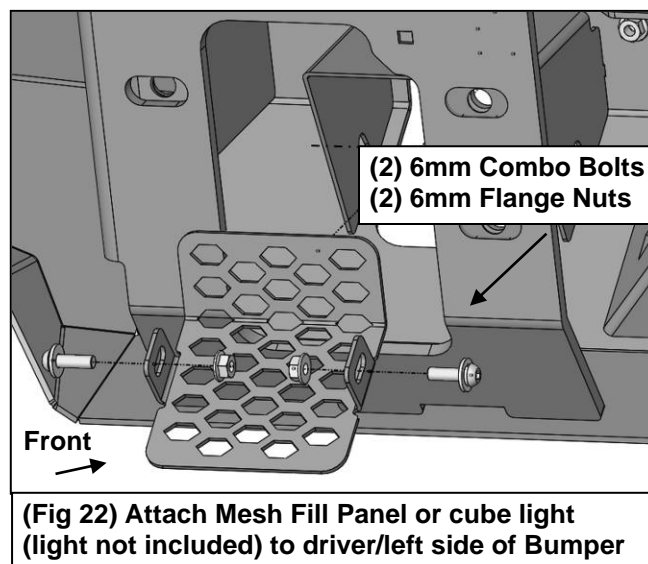
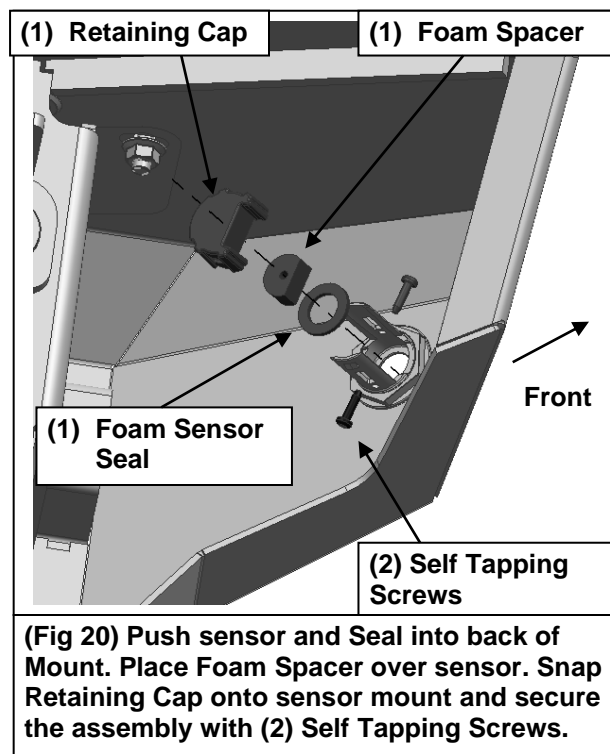
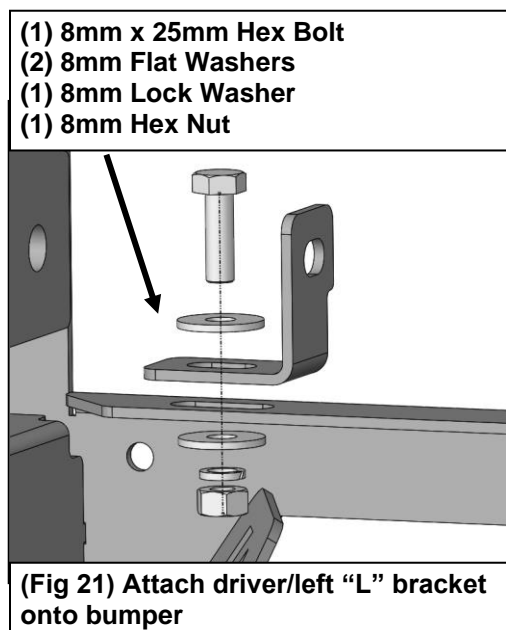
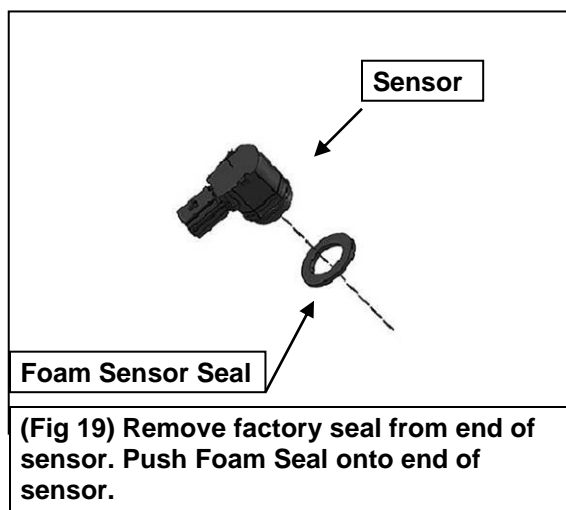
(Fig 17) ACC sensor assembly attached to back of Bumper



(Fig 18) Models without parking sensors, push the included Plugs into sensor mounts

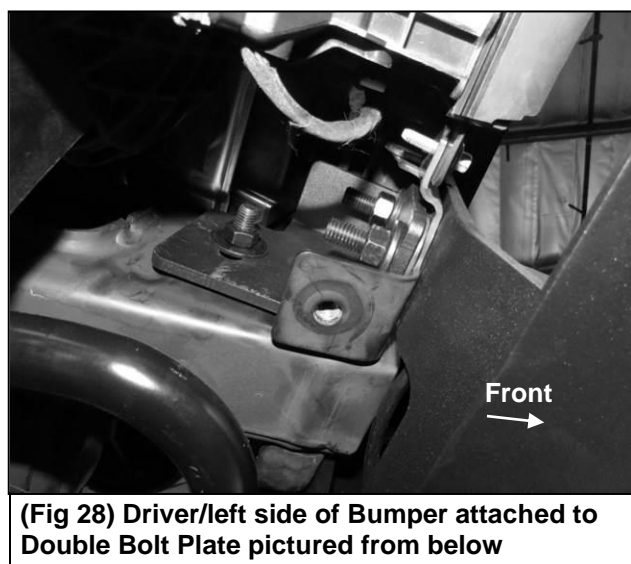
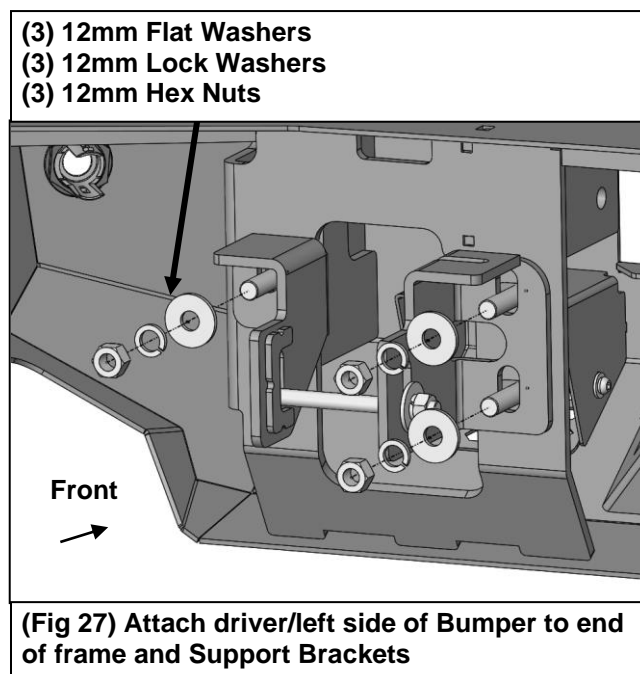
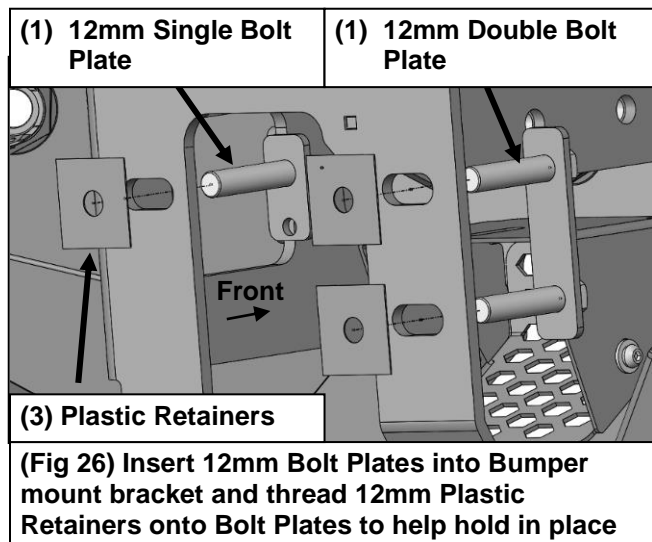
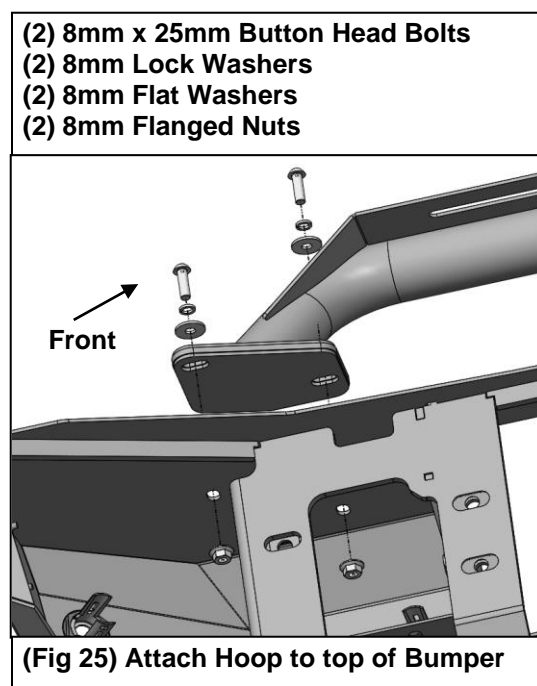
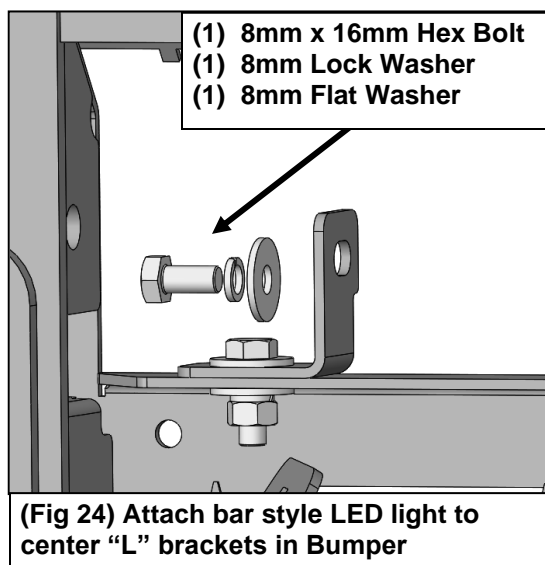
**FB2 Mid Width Front Bumper w/o Winch Frame
2021-2024 FORD BRONCO**

Driver/left Side Installation Pictured



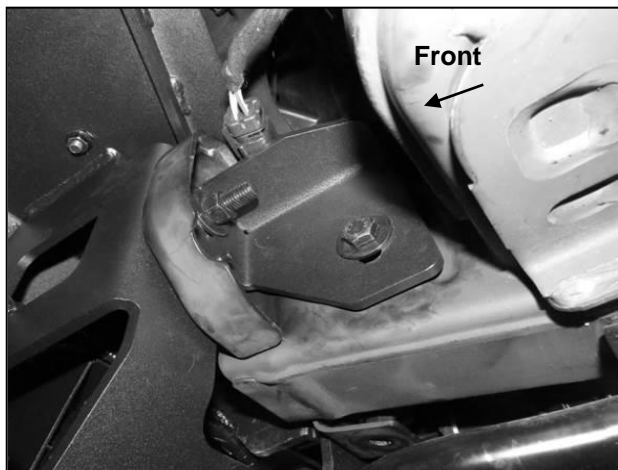
FB2 Mid Width Front Bumper w/o Winch Frame 2021-2024 FORD BRONCO

Driver/left Side Installation Pictured



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2021-2024 FORD BRONCO**

Driver/left Side Installation Pictured

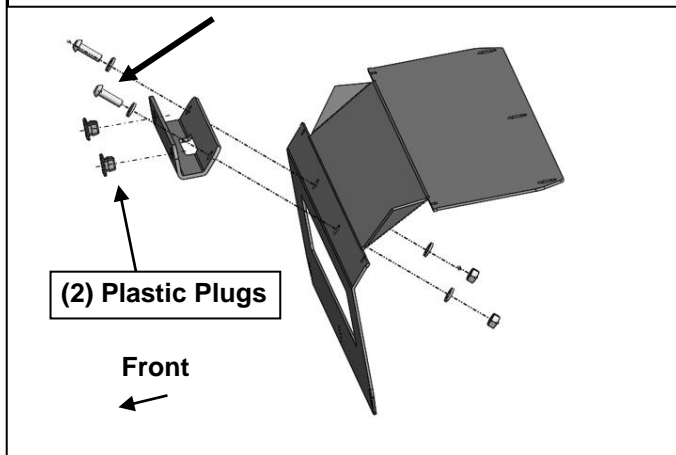


(Fig 29) Driver/left side of Bumper attached to outer Single Bolt Plate pictured from below



(Fig 30) Plug ACC harness connector into ACC sensor

- (2) 6mm x 20mm Button Head Bolts**
- (4) 6mm x 12mm Flat Washers**
- (2) 6mm Nylon Lock Nuts**



(Fig 31) Attach License Plate Bracket to front of center Cover Panel (optional)



(Fig 32) Reinstall center Cover Plate

FB2 Mid Width Front Bumper w/o Winch Frame **2021-2024 FORD BRONCO**

