

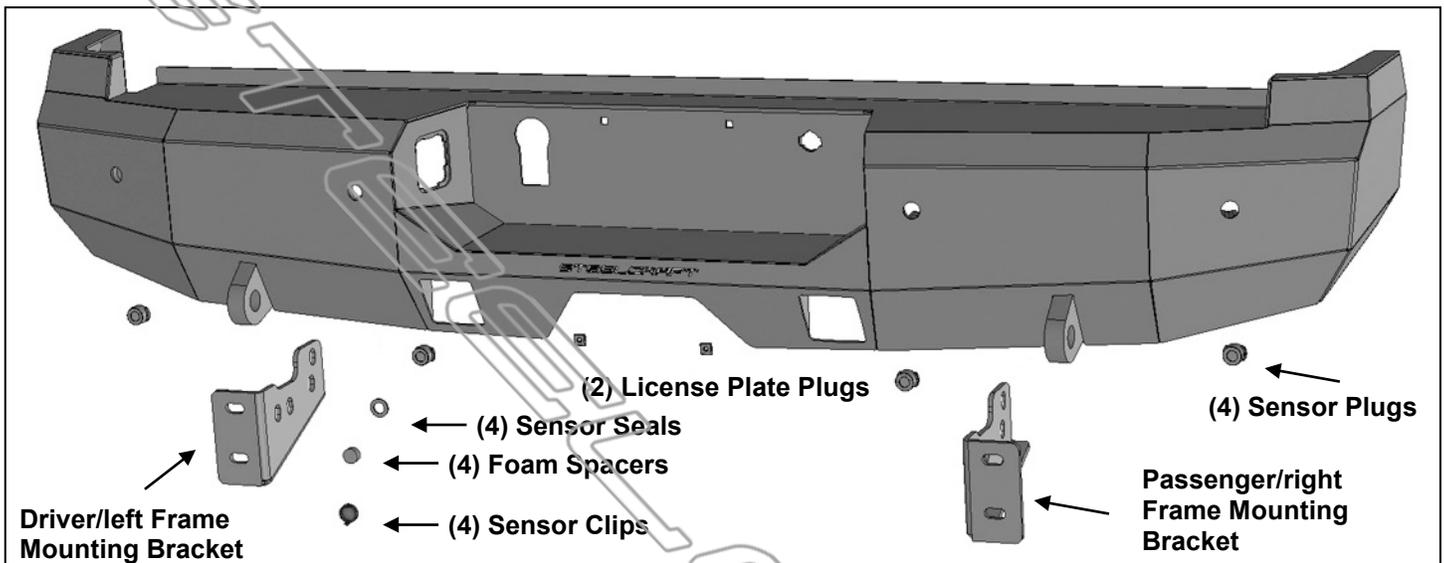


INSTALLATION INSTRUCTIONS

**FORTIS REAR BUMPER
2017-18 FORD F250-350**

PARTS LIST:

1	Fortis Rear Bumper Assembly	1	Sensor Cover Kit
1	Driver/left Frame Mounting Bracket	2	Plastic Plugs for license plate mount
1	Passenger/right Frame Bracket	4	12-1.75mm x 40mm Hex Bolts
4	Sensor Hole Plugs	8	12mm x 37mm x 3mm Flat Washers
4	Retaining Ring	4	12-1.75mm Hex Nylon Lock Nuts
4	Foam Spacer Washer 20mm x 10mm	8	4mm x 10mm Button Head Bolts
4	Sealing Washer	1	2.5mm Wrench



PROCEDURE:

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

1. Remove the license plate from the bumper, **(Figure 1)**. Unplug the wiring harness leading to the bumper and move harness away from bumper.
2. Place blocks or jack stands under the bumper to support it during mounting bolt removal. Once the bumper has been safely supported, remove the (2) factory bolts attaching the bottom of the bumper (step area) to the receiver hitch, **(Figure 1)**. Next, remove the hardware attaching the bumper to the bumper brackets and remove the bumper, **(Figures 2 & 3)**. **WARNING!** Assistance is required to hold the bumper in place during hardware removal to prevent bumper from falling.
3. Next, remove both bumper brackets from the end of the frame, **(Figures 3 & 4)**.
4. Select the passenger/right Frame Mounting Bracket, **(Figure 5)**. Reuse the factory bumper bracket hardware to attach the Bracket to the side of the outside of the frame, **(Figures 5 & 6)**. Repeat this Step to install the driver/left Bracket.
5. Remove sensors, (if equipped), from bumper. Release the clips securing the trailer plug and remove the plug. Remove the license plate lights and wiring harness from the bumper. Next, remove the spare tire plug lock if equipped, **(Figure 7)**.
6. Determine if the vehicle is equipped with sensors.

Models without bumper sensors:

- a. Select the included (4) Rubber Plugs, **(Figure 8)**.
- b. From behind bumper, push plugs into sensor mounting sleeves, **(Figure 8)**. Screws have been provided to lock the plugs into the sleeves. Use is optional.

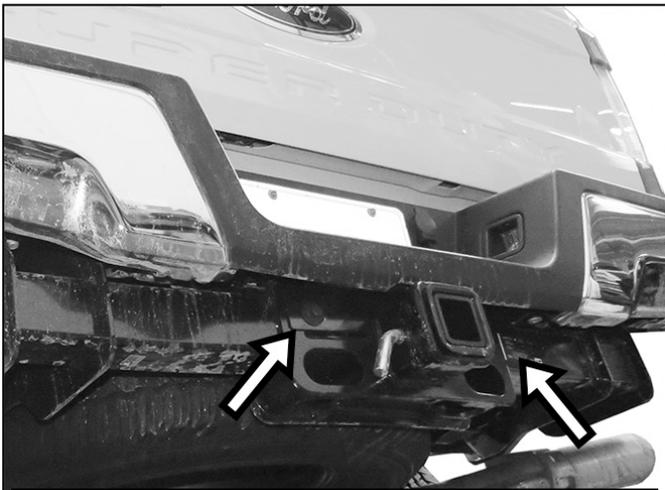
Models with bumper mounted sensors:

- a. Select (1) sensor. Test fit sensor in mounting sleeve. It may be necessary to cut or grind off the tabs on the sides of the sensor to fit into the sleeve.

**FORTIS REAR BUMPER
2017-18 FORD F250-350**

- b. Remove the seal from the end of the sensor, **(Figure 9)**. Slide the included larger Sensor Seal over the front of the sensor.
 - c. Insert the sensor with Seal into sensor mount, **(Figure 10)**.
 - d. Place the thick Foam Spacer over end of the sensor. Push Sensor Retaining Clip into sensor mount and lock into mounting holes, **(Figure 10)**.
 - e. Repeat previous Steps to install remaining sensors.
 - f. **Optional:** Secure each sensor to the socket with (2) 4mm x 10mm Button Head Screws, **(Figure 8)**. **IMPORTANT:** Sensors fit snug in sockets. The 4mm Screws are used to apply slight pressure to lock the sensors in place. Tighten both screws evenly until they touch the sensor body only. Do not overtighten screws or damage to sensors will result.
7. Install the spare tire hole plug lock, license plate lights, and trailer plug into the Bumper, **(Figure 11)**. **NOTE:** Use a flat blade screwdriver to carefully pry out the metal clips on the trailer plug to grab the edge of the opening if necessary.
 8. Install wiring harness. Attach the wiring harness to the sensors, lights and trailer plug as equipped.
 9. With assistance, hold the Bumper assembly up to the Brackets. 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.
 10. Attach the Bumper to the Brackets with the included (4) 12mm x 40mm Hex Bolts, (8) 12mm Flat Washers and (4) 12mm Nylon Lock Nuts, **(Figures 12 & 13)**. Snug but do not fully tighten at this time.
 11. Level and adjust the bumper and slowly lower the tailgate and check for clearance. Adjust the bumper as required and fully tighten all hardware to 65-70ft-lbs.
 12. Do periodic inspections to the installation to make sure that all hardware is secure and tight.
 13. Use the included (2) push-in plugs to attach the license plate to the Bumper, **(Figure 14)**.
 14. Plug in the wiring harness on the Bumper to the main harness on the vehicle.
 15. 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 the (2) bolts attaching the bottom of the step to the receiver hitch if equipped



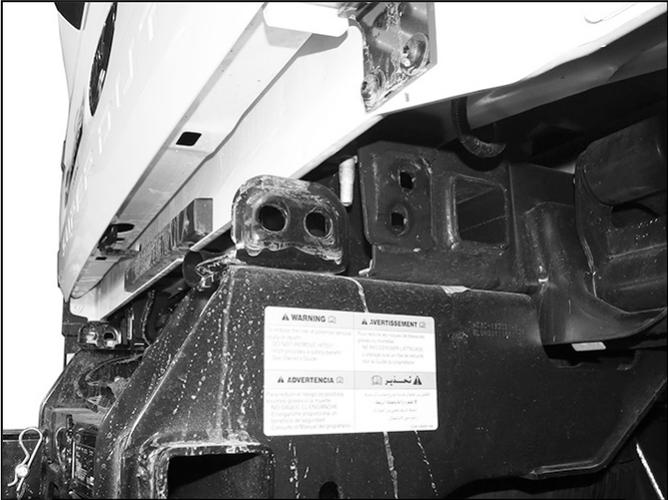
(Fig 2) Remove the factory hex nuts attaching the bumper to the brackets (arrow)

Passenger Side Installation Pictured

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



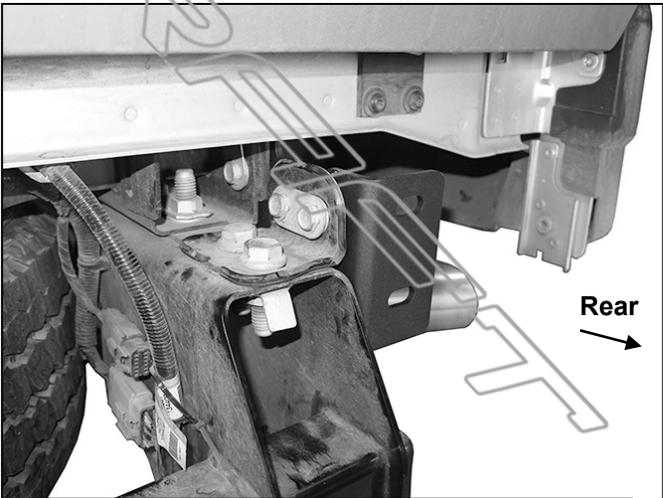
(Fig 3) Remove bumper bracket from frame



(Fig 4) Remove bumper bracket from frame



(Fig 5) Reuse factory hardware to attach the passenger/right Frame Mounting Bracket

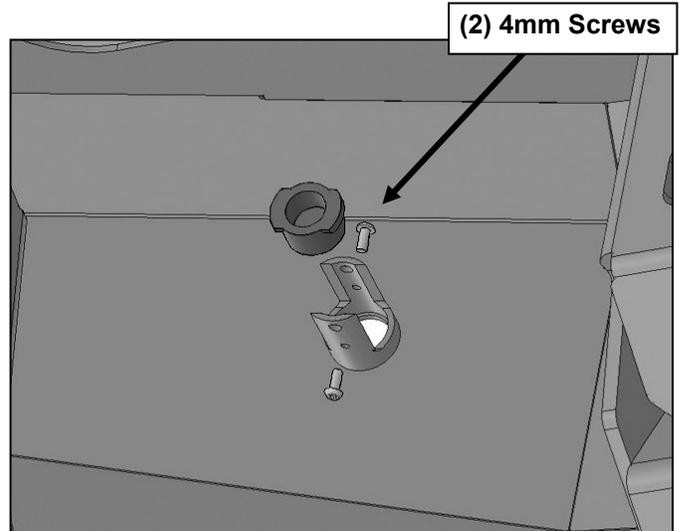


(Fig 6) Reuse factory hardware to attach the passenger/right Frame Mounting Bracket

Passenger Side Installation Pictured

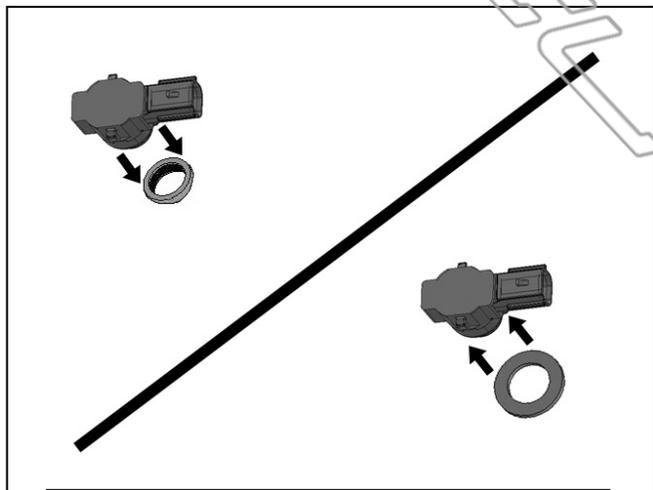


(Fig 7) Remove sensors, wire harness, license plate lights, trailer plug and spare tire access lock (pictured) if equipped



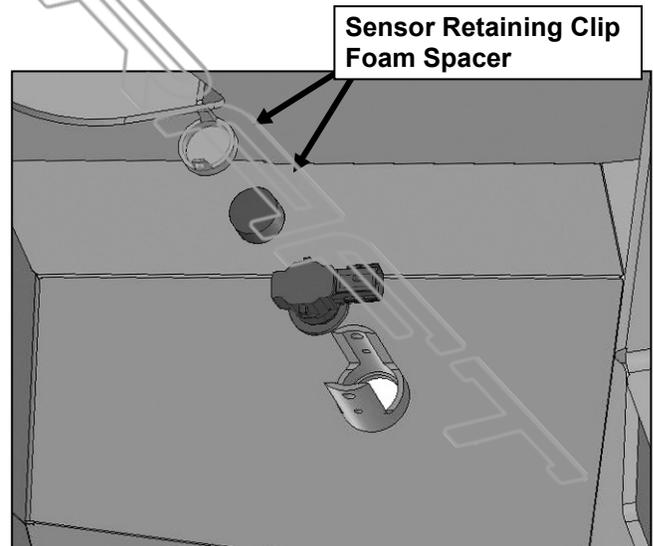
(2) 4mm Screws

(Fig 8) Push sensor hole plug into mounting sleeve. Use 4mm Screws to lock plug in place (optional).



(Fig 9) Remove silicone seal from sensor. Slide large Seal over end of sensor (arrow)

NOTE: Sensor plugs fit snug in sockets. Use of the 4mm Screws is optional. 4mm Screws can also be used to apply slight pressure to lock the sensors in place or to aim the sensor. Tighten both screws evenly until they touch the sensor body only. Do not overtighten screws or damage to sensors will result.



Sensor Retaining Clip
Foam Spacer

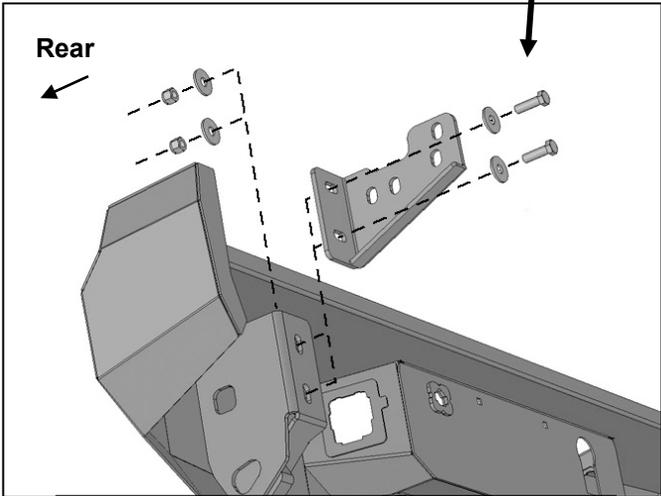
(Fig 10) Slide sensor into sleeve, insert Foam Spacer and Clip to lock sensor in sleeve

Passenger Side Installation Pictured



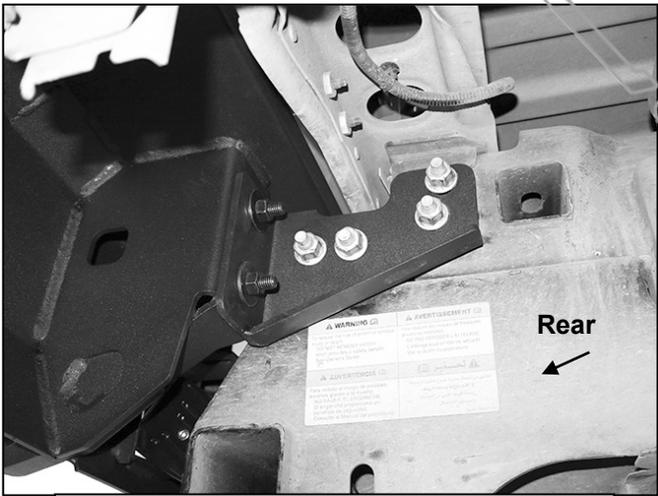
(Fig 11) Install wiring harness, trailer plug, license plate lights and spare tire access lock before installing Bumper

- (2) 12mm x 40mm Hex Bolts
- (4) 12mm Flat Washers
- (2) 12mm Nylon Lock Nuts

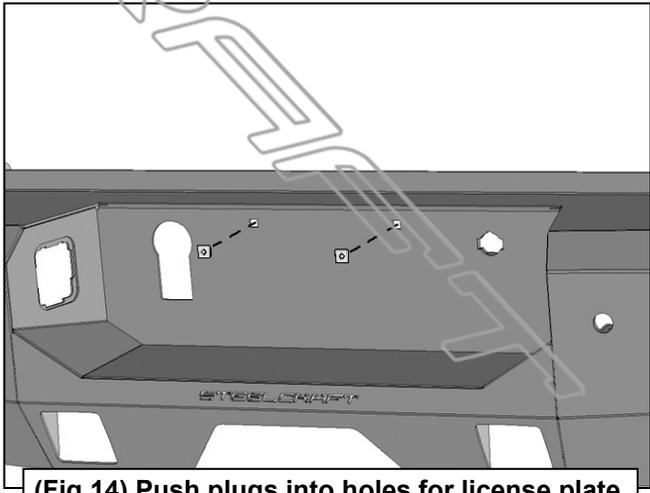


(Fig 12) Attach Bumper to Bumper Brackets (passenger/right side illustrated)

WARNING! Do not crawl under bumper unless the bumper is properly supported on blocks or stands or the bumper may fall.



(Fig 13) Attach Bumper to Bumper Brackets (passenger/right side pictured)



(Fig 14) Push plugs into holes for license plate