BARRICADE



TRAIL FORCE REAR BUMPER

(2021-2025+ BRONCO)

INSTALLATION INSTRUCTIONS

CONTENTS

(1) Rear Bumper
(1) LH Bumper End Cap
(1) RH Bumper End Cap
(1) LH Bumper Mounting Nut Plate
(1) RH Bumper Mounting Nut Plate
(2) 3/4” D-Rings
(1) License Plate Brackets
(2) Lighting Block Off Plates
(4) M12x1.75 x 45mm Bolts
(4) M12 Lock Washers
(4) M12 Flat Washers
(4) M10x1.50x 35mm Bolts
(4) M10 Lock Washers
(4) M10 Flat Washers
(18) M6x1.00 x 20mm Allen Bolts
(18) M6 Lock Washers
(20) M6 Flat Washers (Large OD)
(16) M6 Flat Washers (Small OD)
(18) M6 Hex Nuts
(1) 4mm Allen Key
(4) Proximity Sensor Install Kits
(2) LED Lights with Pre-Installed Hardware
(4) Scotchlok Connectors

TOOLS REQUIRED

10mm, 13mm, 15mm, 18mm Sockets/Wrenches
Ratchet
Panel Removal Tool
Flathead Screwdriver

SKU # FB50256
Edited: 08/07/2024

STEP 1



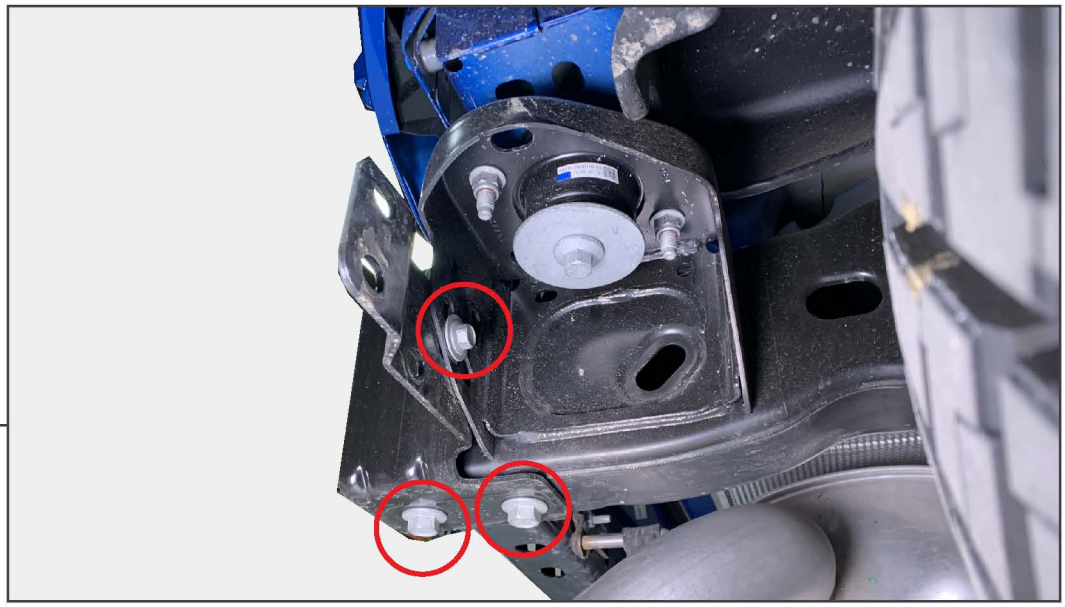
Remove the (3) lug nuts from the spare tire and remove the spare tire from the vehicle.

STEP 2



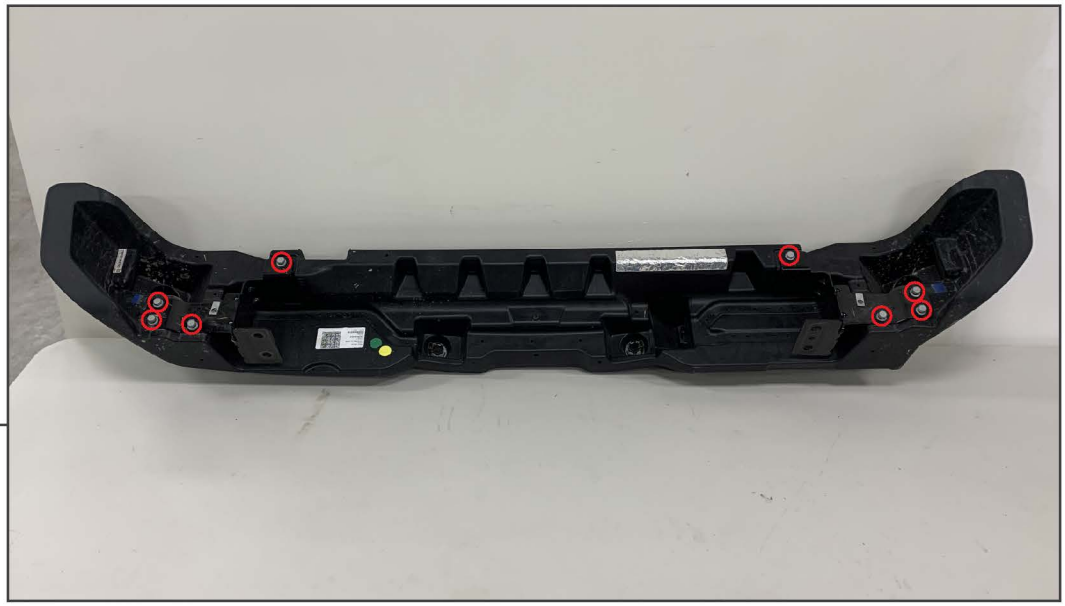
Behind each rear wheel, disconnect (1) electrical connector per side to disconnect the rear backup sensors and the license plate lamp from the vehicle harness.

STEP 3



Along each rear frame rail, remove (1) 13mm bolt and (2) 18mm bolts from each side to remove the original bumper and tow hook from the vehicle.

STEP 4



Place the bumper face down on a soft surface. Remove the bumper mounting brackets by removing (8) 15mm bolts.



STEP 5

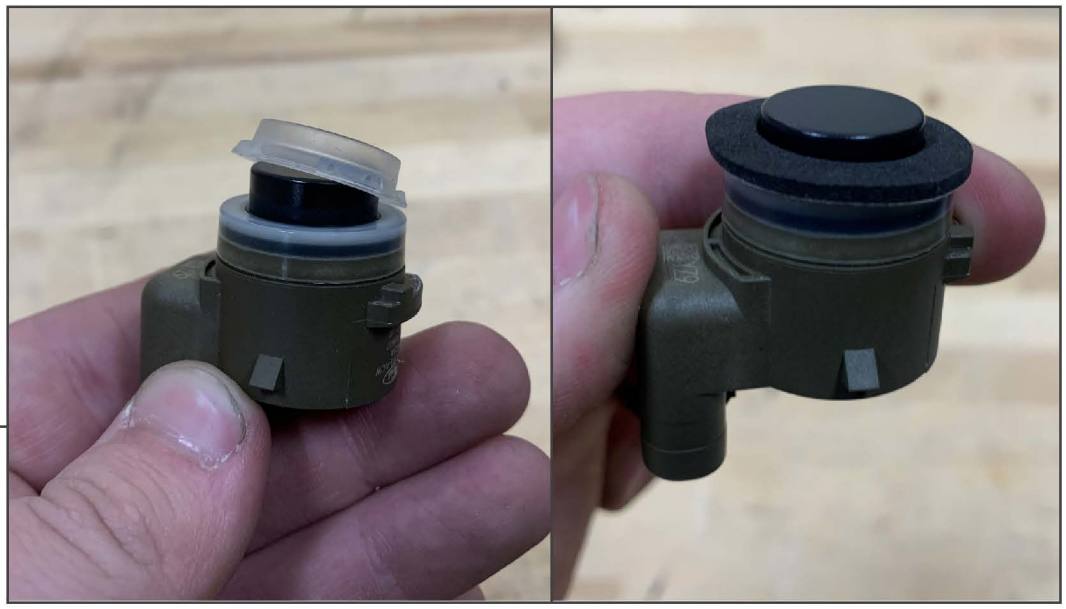
Unplug the license plate light and backup sensor harness from the bumper. Using a panel removal tool, remove all the wiring harness retaining push pins to remove the harness from the bumper.



STEP 6

Remove the backup sensors from the original bumper using a small flathead screwdriver and transfer the sensors to the new bumper, if applicable. See the following steps for the different mounting styles.

BACKUP SENSORS



Remove the rubber gasket from the sensor. Prepare the sensor for re-installation by applying the supplied foam ring to the sensor. Then reference the following steps for the mounting options.

BACKUP SENSORS [Option 1]



Place the sensor into the designated port, ensuring the mounting tabs are within the slots. Adhere (1) rubber grommet to the sensor using the attached adhesive. Place (1) foam pad onto the rubber grommet. Place the (1) plastic cap onto the assembly, ensuring the (2) tabs lock into place to secure the sensor tightly to the port.

BACKUP SENSORS [Option 2]



Place the sensor into the designated port, ensuring the mounting tabs are within the slots. Using (2) Phillips screws, gently tighten the screws until moderate pressure is on the sides of the sensor to hold the sensor into place.

Note: Do NOT over-tighten the screws as the sensor can become damaged.

BACKUP SENSORS [Option 3]



No Sensor: Press the plastic cap into the backup sensor housing through the face of the bumper.



STEP 7

Install the bumper lighting block off plates using (4) M6 x 20mm Allen bolts, (4) M6 lock washers, (8) M6 flat washers [small OD], and (4) M6 hex nuts.

Repeat this step for the opposite side of the bumper.



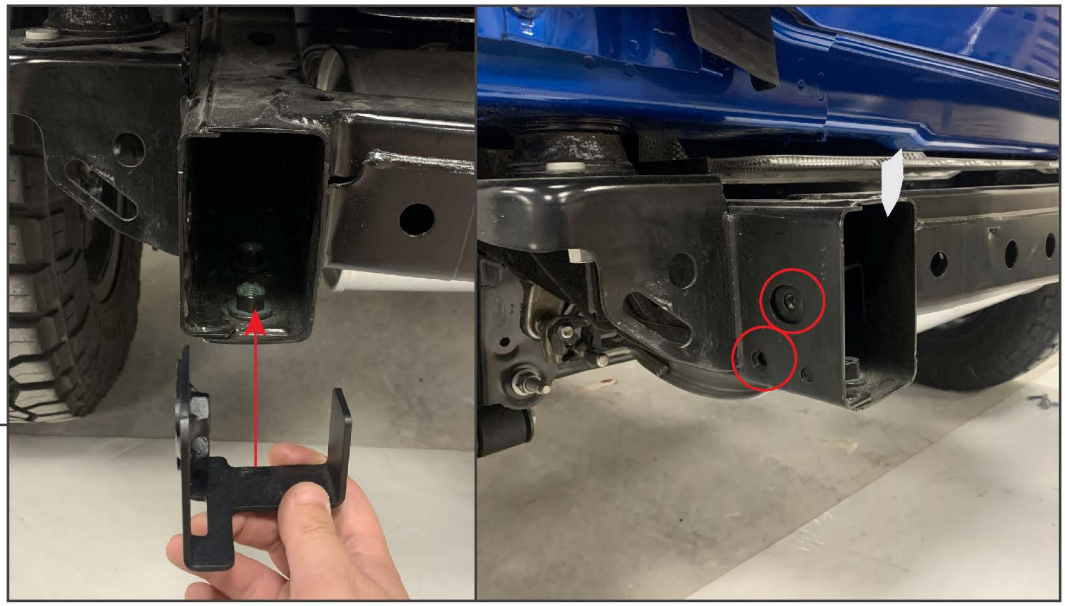
STEP 8

Secure each bumper end cap using (2) M6 x 20mm Allen bolt, (2) M6 lock washers, (4) M6 flat washers [large OD], and (2) M6 hex nuts.



STEP 9

Secure the license plate mounting bracket to the bumper face pre-drilled holes using (2) M6 x 20mm Allen bolts, (2) M6 lock washers, (4) M6 flat washers [large OD], and (4) M6 hex nuts.



STEP 10

Fit the included LH and RH nut plates into the vehicle frame rail, ensuring the welded nuts face towards the outside of the vehicle. The flag of the bracket will fit between the lower welded M12 nuts in the frame.



STEP 11

With assistance, lift the bumper to the vehicle frame rails. Loosely secure the bottom of the bumper to the frame using (2) M12 x 45mm bolts, (2) M12 lock washers, and (2) M12 flat washers per side. Then, loosely secure the sides of the bumper to the frame using (2) M10 x 35mm bolts, (2) M10 lock washers, and (2) M10 flat washers.

Adjust the bumper to best fit the vehicle, and tighten the M12 hardware, followed by the M10 hardware evenly until secure.

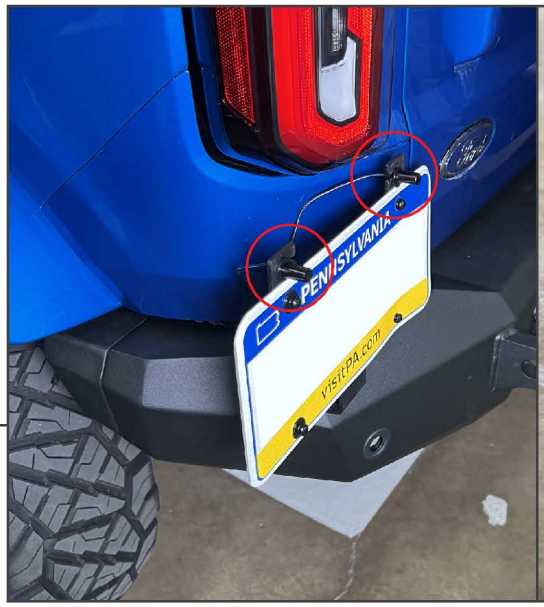


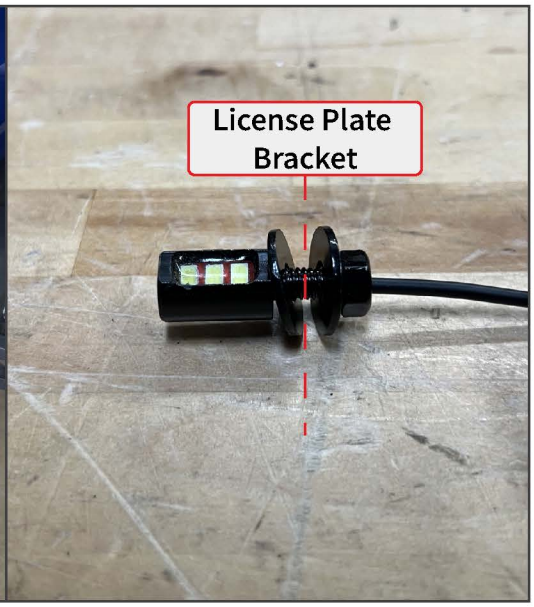
STEP 12

Install the license plate to the license plate bracket using (4) M6 x 20mm Allen bolts, (4) M6 lock washers, (8) M6 flat washers [large OD], and (4) M6 hex nuts.

Note: Some vehicles with larger license plates may need to massage the license plate to prevent interference with the bumper.

STEP 13





Install the license plate lamps to the license plate bracket using the pre-installed LED light hardware. Route the wiring harnesses behind the vehicle bumper. Splice into the vehicle license plate lamp harness following the diagram below using the provided (4) scotchlok connectors.

Vehicle Parking Lamp Harness	-	LED Light Bolts
Yellow/Violet (+)	-	Red (+)
Black(-)	-	Black (-)

STEP 14



Neatly route the original proximity sensor/license plate lamp harness across the bumper and plug in all connections. Install (2) 3/4" D-Rings to the bumper.

Installation is now complete.