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Rough Country 51125 Installation Instructions

Spare Tire Carrier Delete Kit for 2021–2025 Ford Bronco 4WD

Part number: 51125

trailfortress.com/rough-country-spare-tire-carrier-delete-kit-51125

Scan for fitment, price and install help

921511250

ROUGH COUNTRY
SUSPENSION SYSTEMS®

FORD 2021-23 Bronco Tire Carrier Delete

Thank you for choosing Rough Country for all your vehicle needs.

Please read instructions before beginning installation. Check the kit hardware against the kit contents shown below. Be sure you have all needed parts and know where they go.
If question exist, please call us @1-800-222-7023. We will be happy to answer any questions concerning this product.
Check all fasteners for proper torque. Check to ensure for adequate clearance between all components.
Periodically check all hardware for tightness.

Kit Contents:

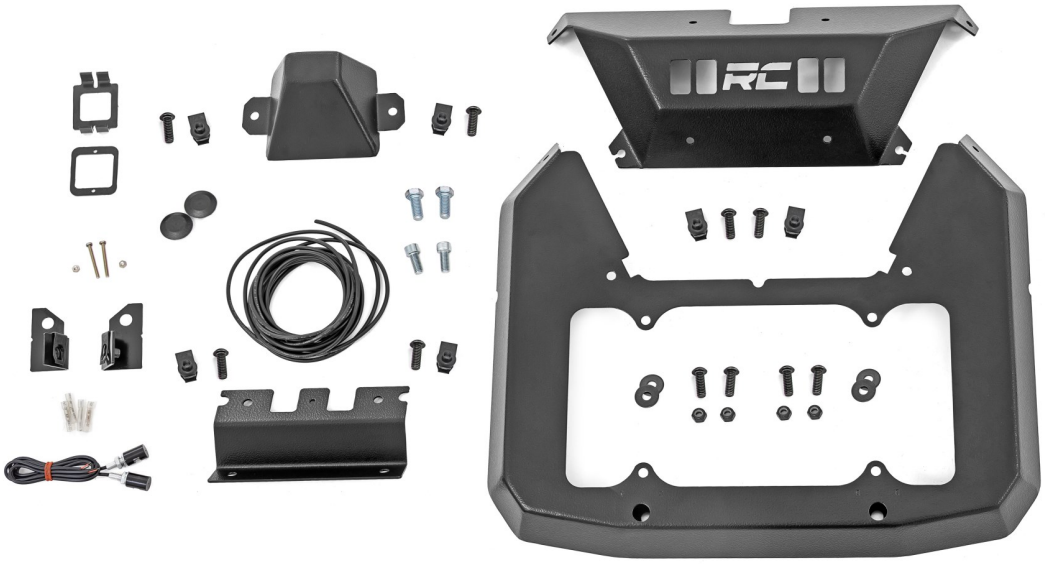
License Plate Bracket x1
Brake Light Cover x1
Camera Cover x1
Brake Light Mount x1
Camera Support x1
Camera Backing Plate x1
Dr Mounting Bracket x1
Pass Mounting Bracket x1
LED Tag Lights x2

Tools Needed:

Trim Removal Tool
T15 Torx
T25 Torx
T30 Torx
Phillips Head Screwdriver
4mm Allen
5mm Allen
10mm Wrench or Socket
13mm Wrench or Socket
Wire Stripper
Butt Connector Crimp Tool
Electrical Tape

Hardware Included:

6mm Clip Nuts x6
6mm Flat Washers x4
6mm x 20mm Bolts x10
6mm Nylock Nuts x 4
8mm Flat Washers x2
8mm X 15mm Bolts x 2
8mm x 15mm Socket Head Bolts x2
#3 x 1” Machine Screws x2
#3 Machine Screw Nuts x2
1/2” Round Plugs x2
22-24AWG Butt Connectors x4
22 Gauge Wire 13ft

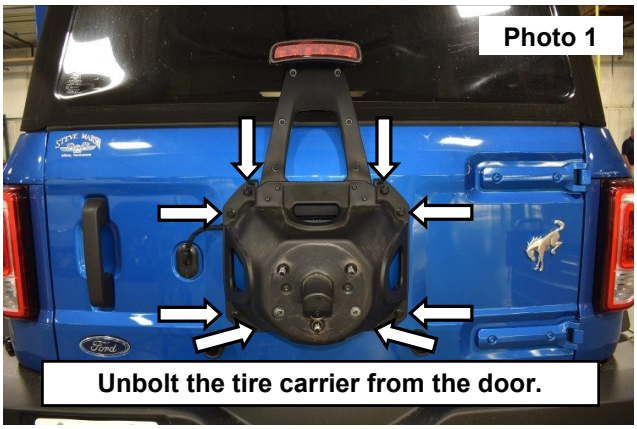


Torque Specs:

Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16”	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
3/8”	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16”	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2”	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16”	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8”	135ft/lbs	175ft/lbs	16MM	130ft/lbs	165ft/lbs
3/4”	185ft/lbs	280ft/lbs	18MM	170ft/lbs	240ft/lbs

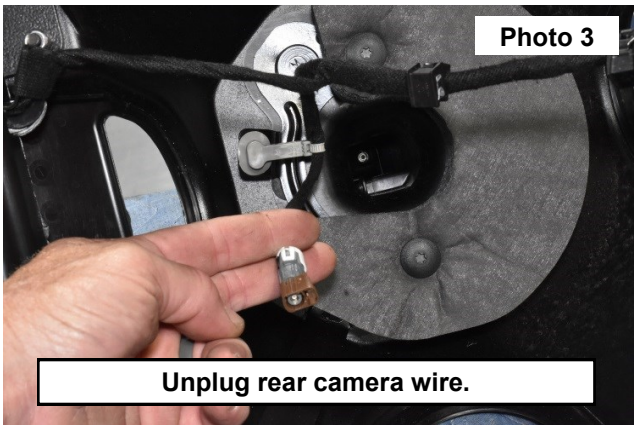
INSTALLATION INSTRUCTIONS

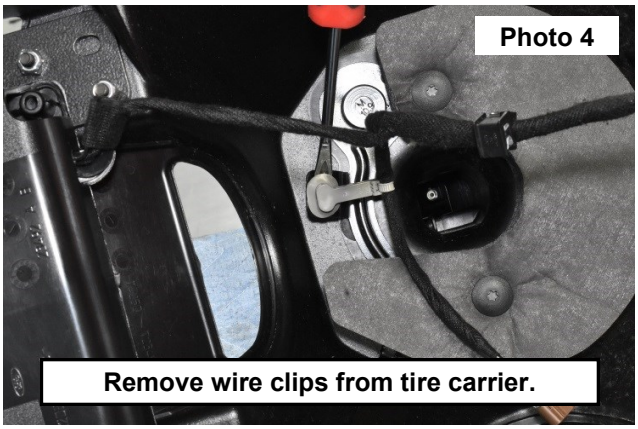
1. Remove the spare tire from the tire carrier and unbolt the tire carrier from the door using a 13mm socket/wrench. **See Photo 1**.
2. Place the tire carrier on a table or stand near the rear of the vehicle. **See Photo 2**.



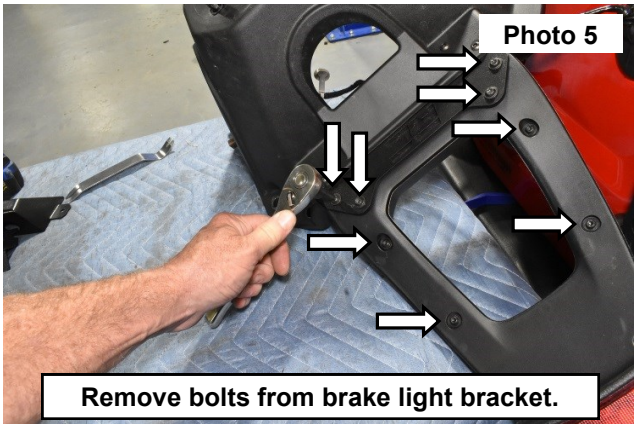


3. Unplug the rear camera wire. **See Photo 3**.
4. Remove wire clips from the tire carrier using a trim removing tool. **See Photo 4**.



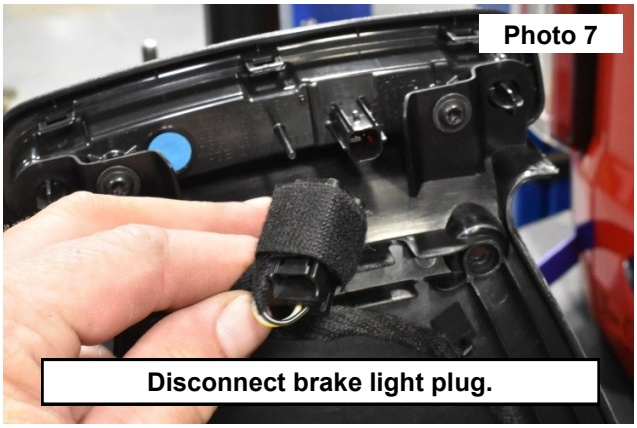


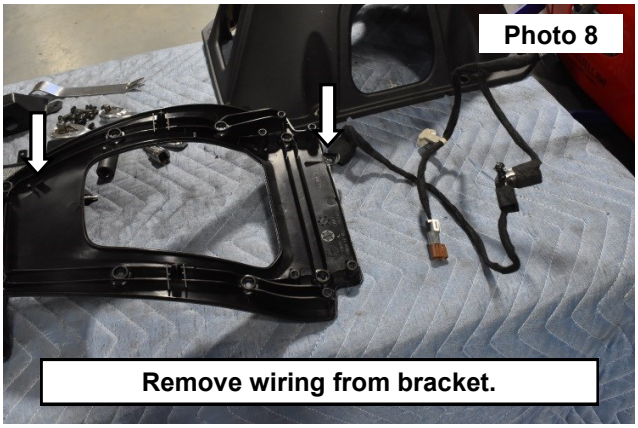
5. Remove the brake light bracket from the tire carrier and remove the bolts from the back of the bracket using T25 and T30 Torx bits. **See Photo 5**.
6. Separate the two pieces of the brake light bracket. **See Photo 6**.



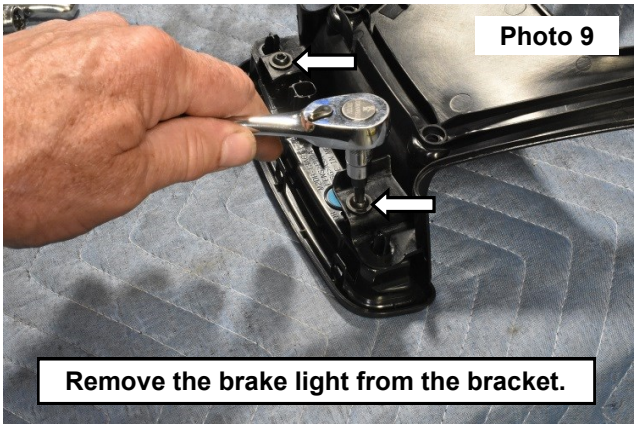


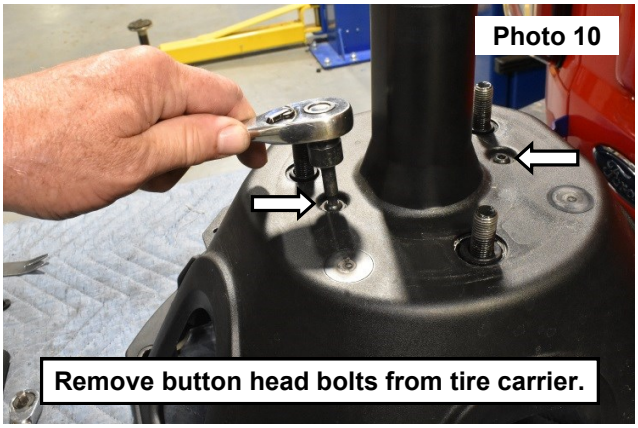
7. Disconnect the brake light plug. **See Photo 7**.
8. Remove the wiring from the bracket. **See Photo 8**.



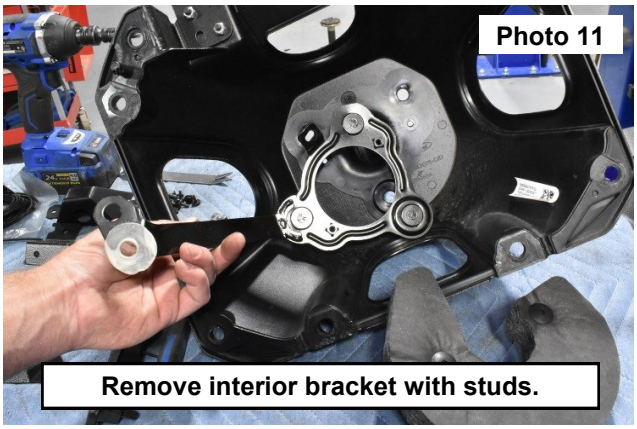


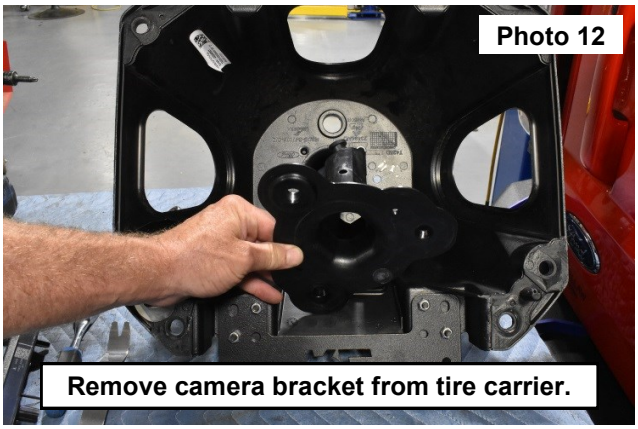
9. Remove the brake light from the bracket using a T25 Torx bit. **See Photo 9**.
10. Remove the button head bolts in the tire carrier using a T30 Torx bit. **See Photo 10**.



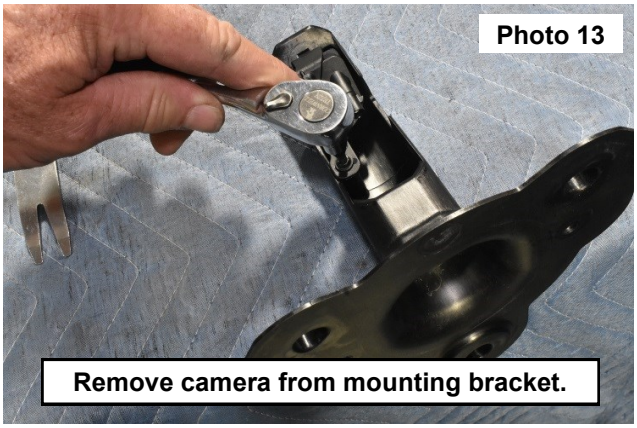


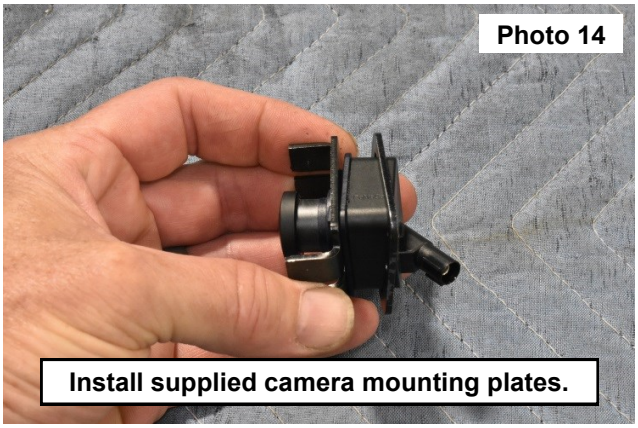
11. Remove the interior bracket with the studs from the tire carrier. **See Photo 11**.
12. Remove the camera bracket from the tire carrier. **See Photo 12**.





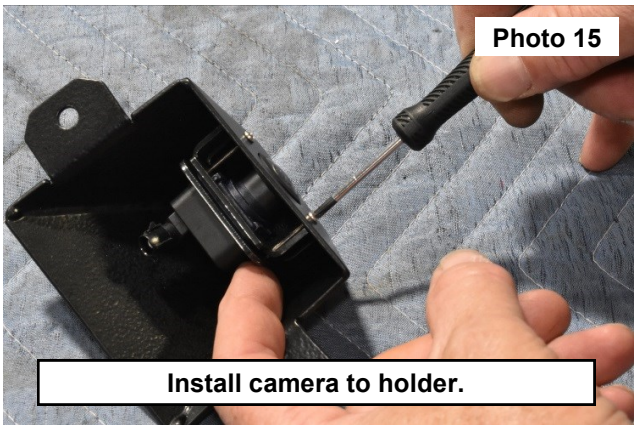
13. Remove the camera from the mounting bracket using a T15 Torx bit. **See Photo 13**.
14. Install supplied camera mounting plates around the camera. **See Photo 14**.

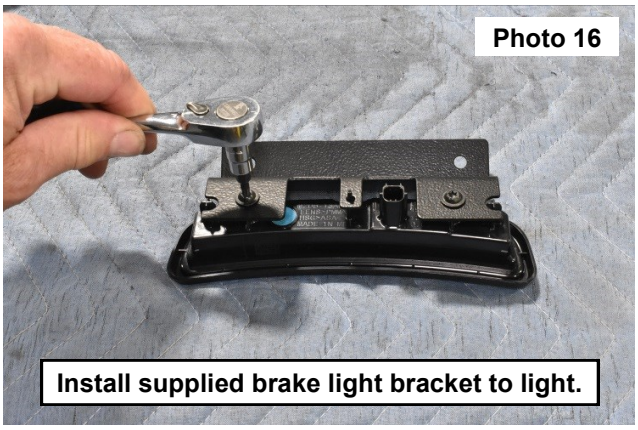




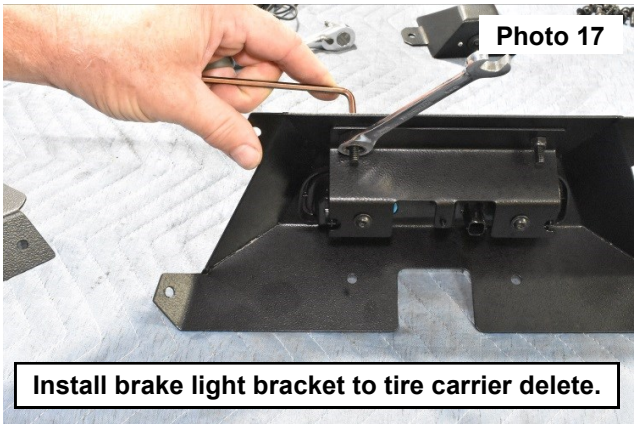
⚠NOTICE **DO NOT OVERTIGHTEN CAMERA HOLDER BELOW**.

15. Install the camera to the camera holder using the supplied Phillips head bolts and nuts. **See Photo 15**.
16. Install the supplied brake light bracket to the brake light using the stock hardware. **See Photo 16**.



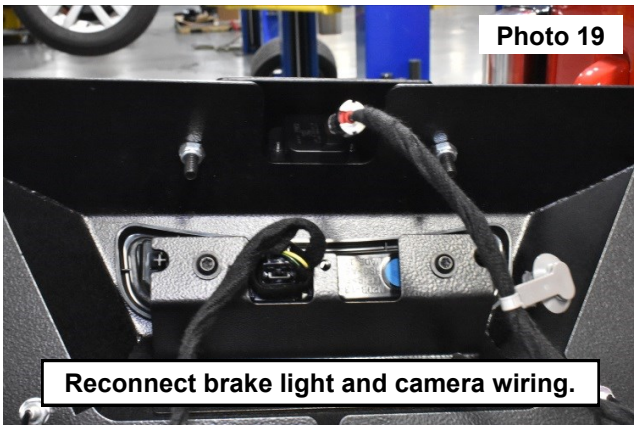


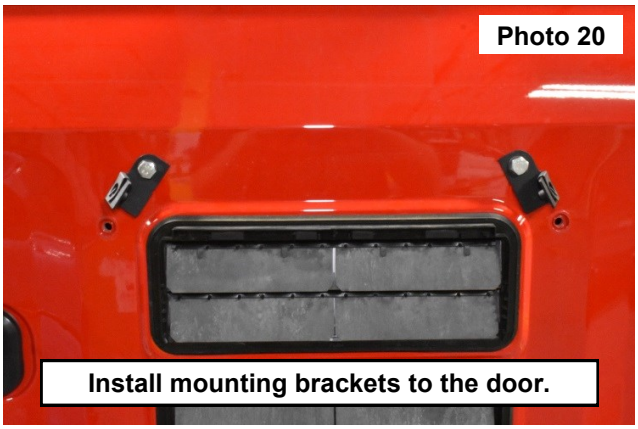
17. Install the brake light bracket and light to the RC bracket with the supplied 6mm bolts and nuts using a 4mm Allen wrench and 10mm socket/wrench. **See Photo 17**.
18. Install the camera holder to the RC bracket using the supplied 6mm bolts and nuts. **See Photo 18**.



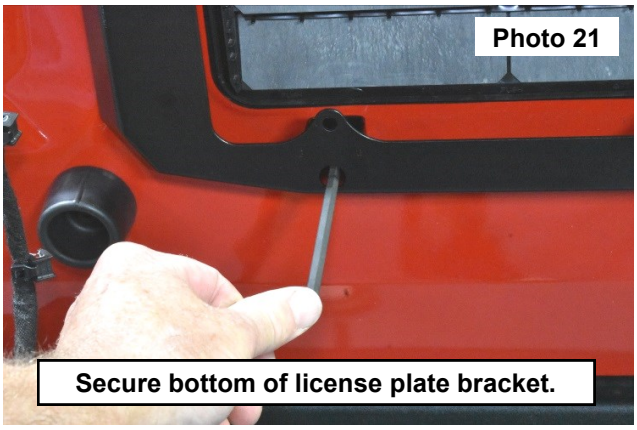


19. Reconnect the camera and brake light wiring. **See Photo 19**.
20. Install the clip nuts to the mounting brackets and install to the rear door with the supplied 8mm hex bolts and washers using a 13mm socket/wrench. **See Photo 20**. **Loosely tighten**.



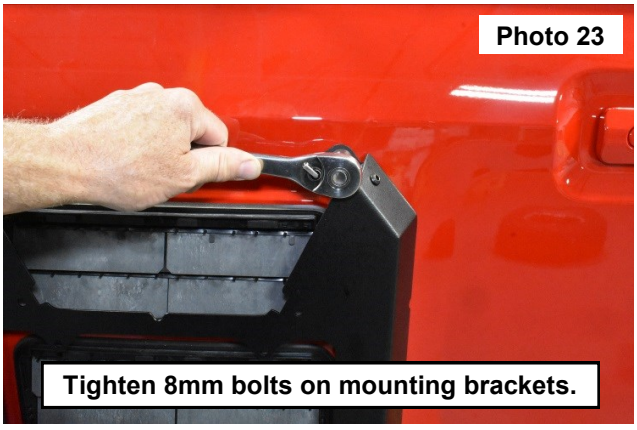


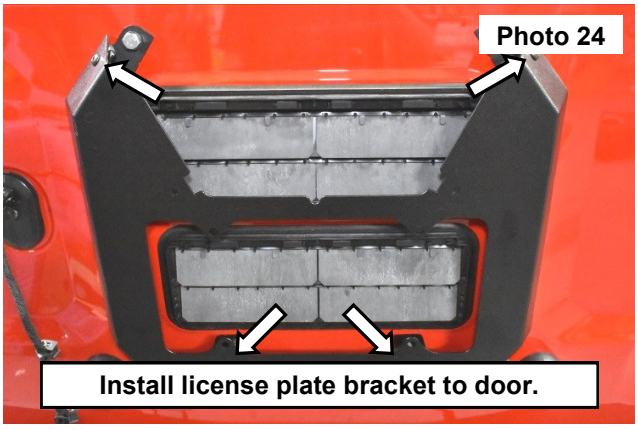
21. Temporarily install the license plate bracket to get the correct angle for the mounting brackets by securing the bottom using the supplied 8mm socket head bolts and 5mm Allen wrench. **See Photo 21**.
22. Install the 6mm button head bolts to the mounting brackets. **See Photo 22**.



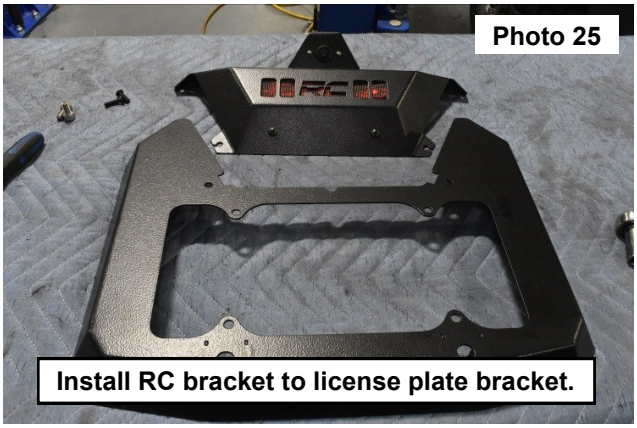


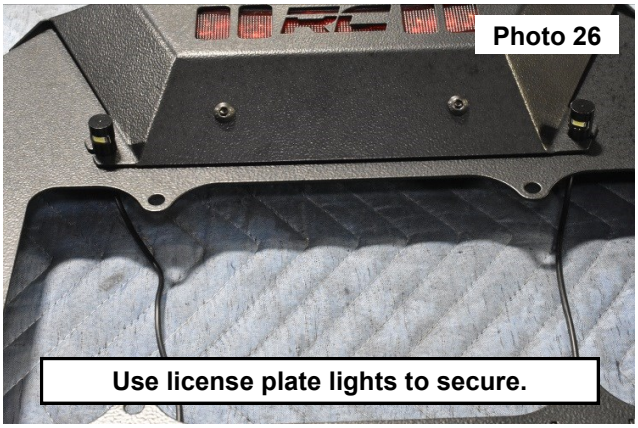
23. Tighten the 8mm hex bolts on the mounting brackets. **See Photo 23**.
24. Remove the license plate bracket but leave the mounting brackets at this angle. **See Photo 24**.





25. Install the RC bracket to the supplied license plate mounting bracket using the supplied license plate lights. **See Photo 25** and **Photo 26**.



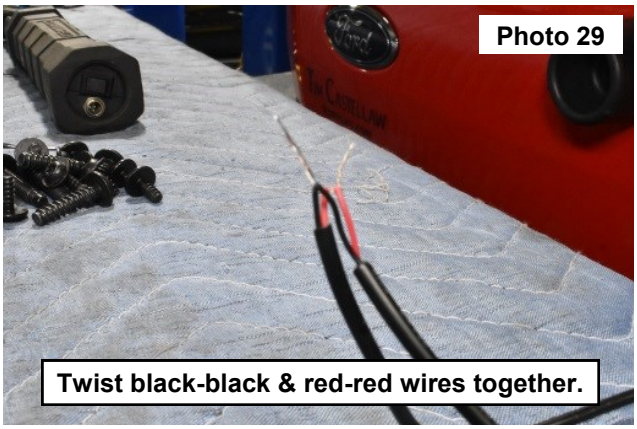


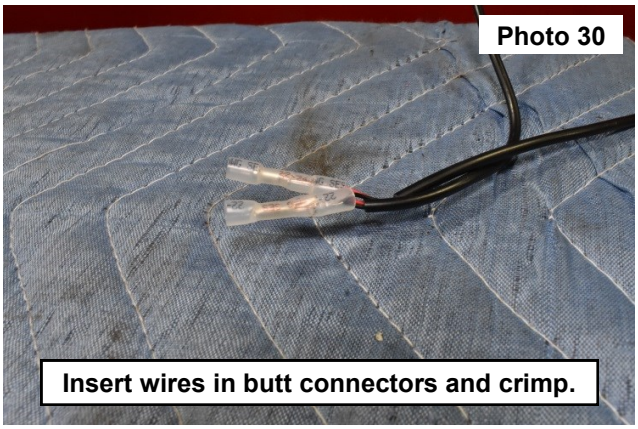
26. Install the license plate mounting bracket and RC bracket to the rear door mounting brackets with the supplied 6mm button head bolts using a 4mm Allen wrench at the top and 8mm button head bolts and 5mm Allen wrench at the bottom. **See Photo 27** and **Photo 28**.



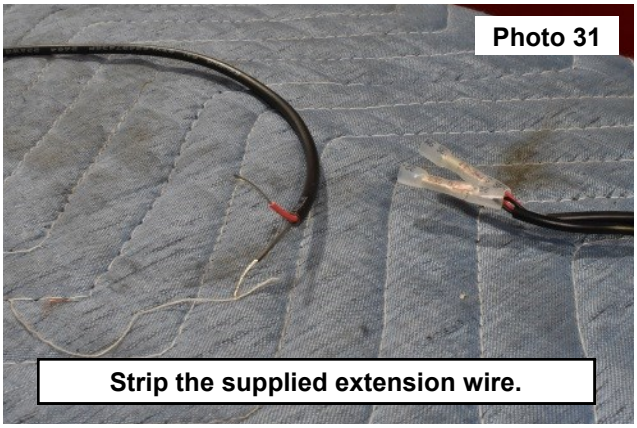


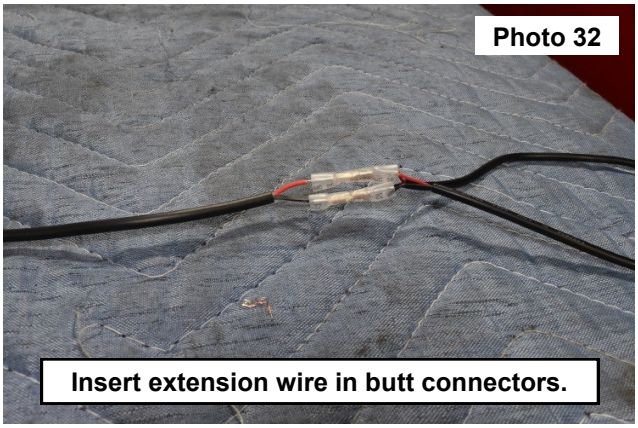
27. Strip the wires from the license plate lights and twist the black wires together and twist the red wires together. **See Photo 29**.
28. Insert the black wires in one butt connector and the red wires in another but connector and crimp them. **See Photo 30**.



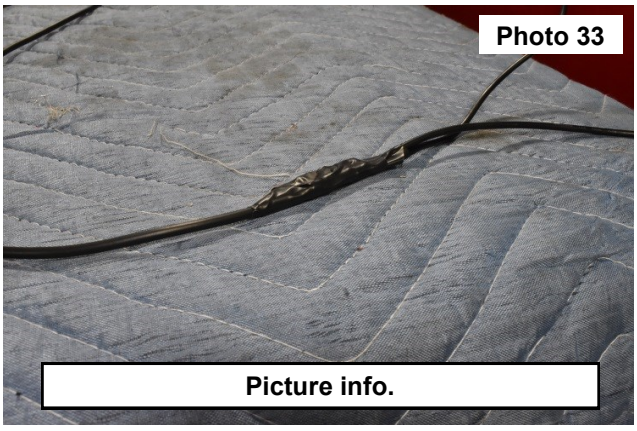


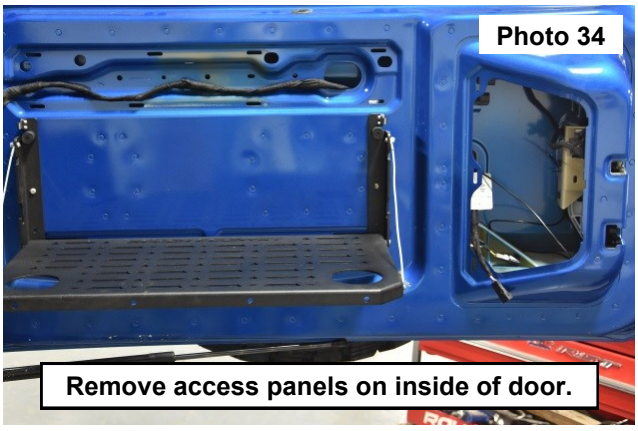
29. Strip the supplied extension wire. **See Photo 31**.
30. Insert the extension wire in the other ends of the butt connectors aligning the black to black and red to red and crimp the connectors. **See Photo 32**.



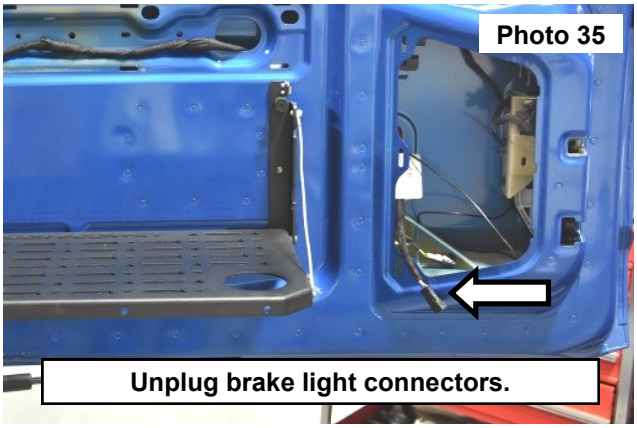


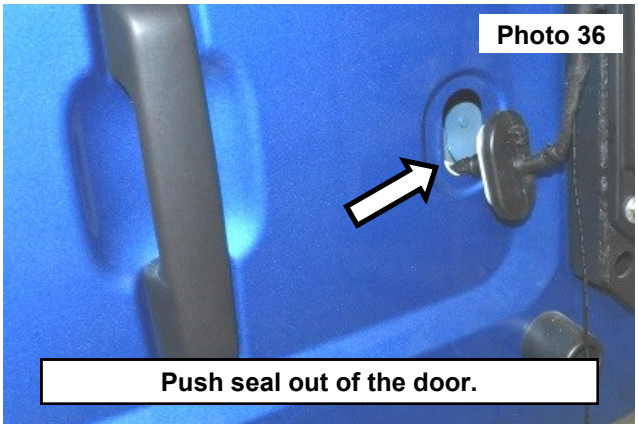
31. Wrap the connectors in electrical tape. **See Photo 33**.
32. Remove the access panels on the inside of the door. **See Photo 34**.





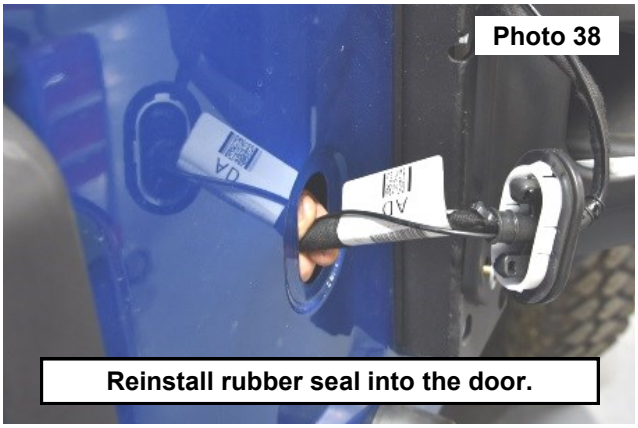
33. Unplug the brake light connectors and push the seal out of the door. **See Photo 35** and **Photo 36**.



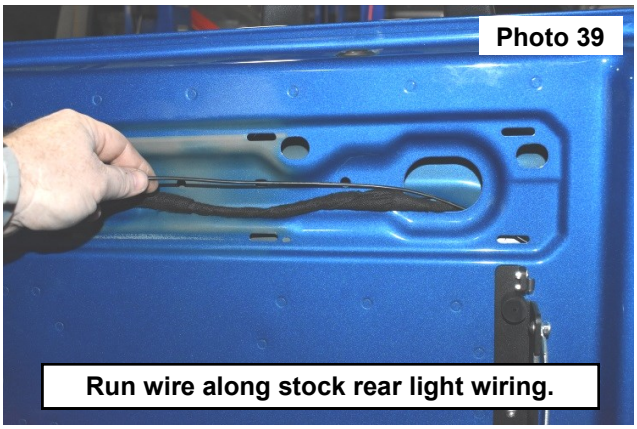


34. Feed the wiring through the rubber seal. **See Photo 37**.
    Be careful no to damage the wire.
35. Reinstall the rubber seal into the door. **See Photo 38**.

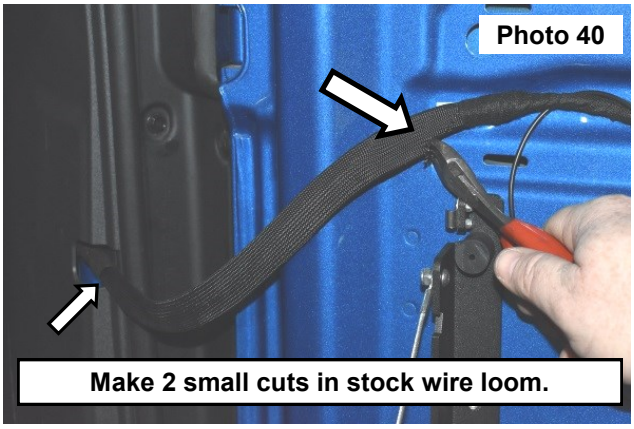




36. Run the wire along with the stock rear light wiring in the door. **See Photo 39**.



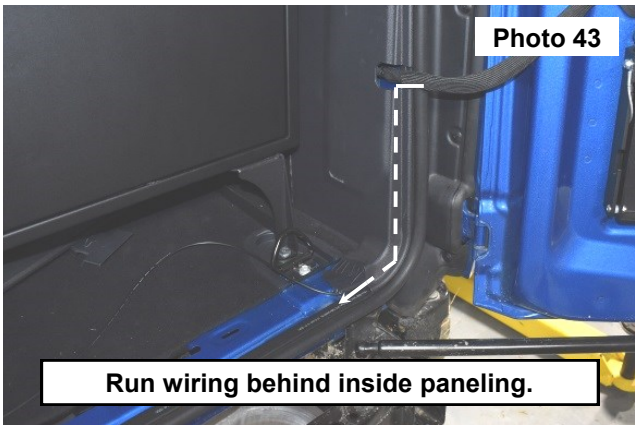
37. Make 2 small cuts in the stock wire loom where the rear access panel ends and where the wiring enters the inside paneling. **See Photo 40**.
    NOTE: Be careful not to cut the wires inside the loom.
38. Run the wire through the cutouts in the stock wire loom. **See Photo 41**.



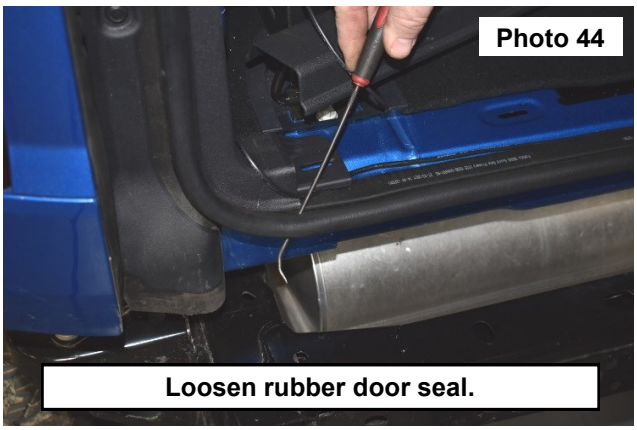


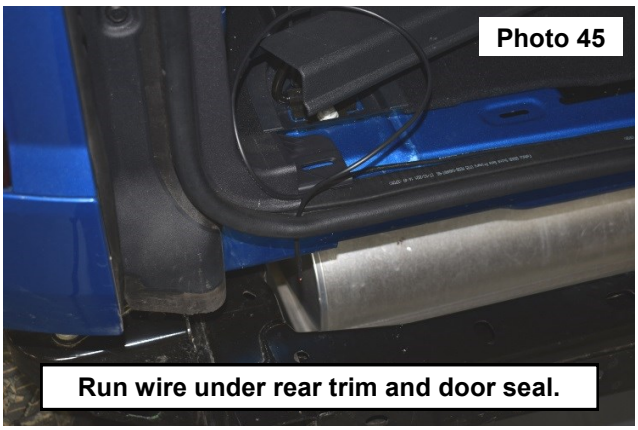
39. Remove the rear lower trim using a flat head or pry tool. **See Photo 42**.
40. Run the wiring behind the inside paneling down to where the rear lower trim was removed. **See Photo 43**.



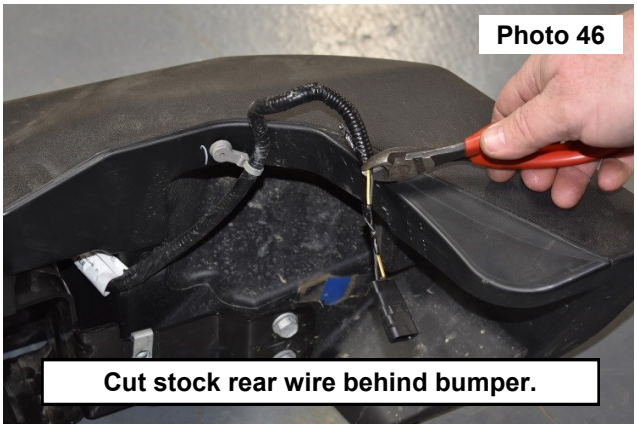


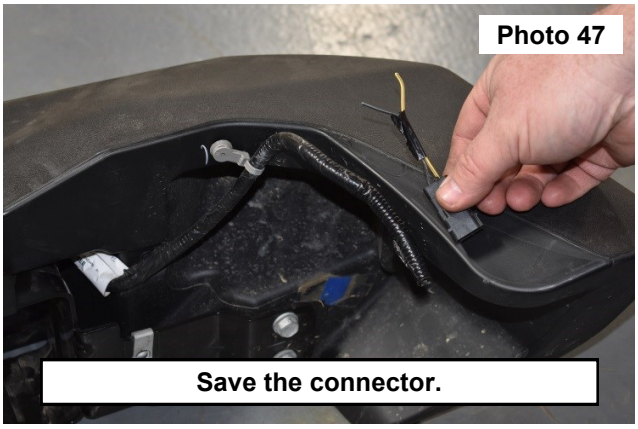
41. Loosen rubber door seal on the lower driver side. **See Photo 44**.
42. Run the wire under the rear trim and door seal. **See Photo 45**.



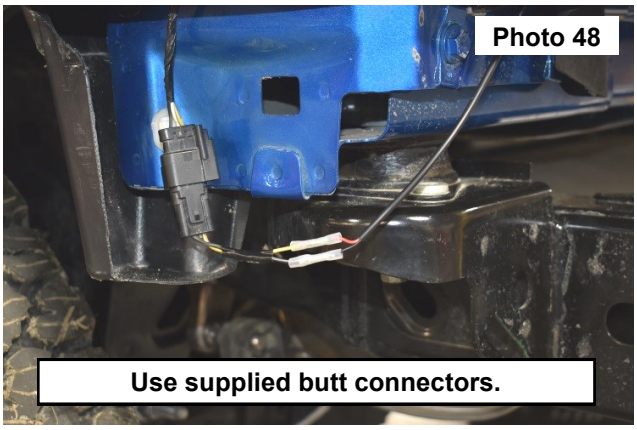


43. Disconnect the rear light plug behind the bumper on the driver side and cut the stock rear wire **a few inches form the connector. See Photo 46**.
    NOTE: Bumper was removed for photo purposes but does not have to be removed.
44. Save the connector. **See Photo 47**.



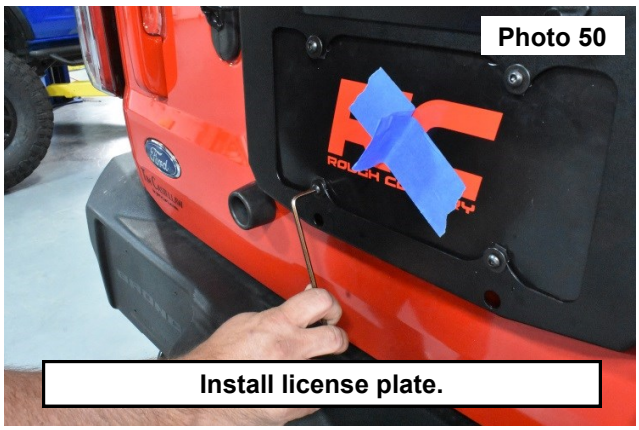


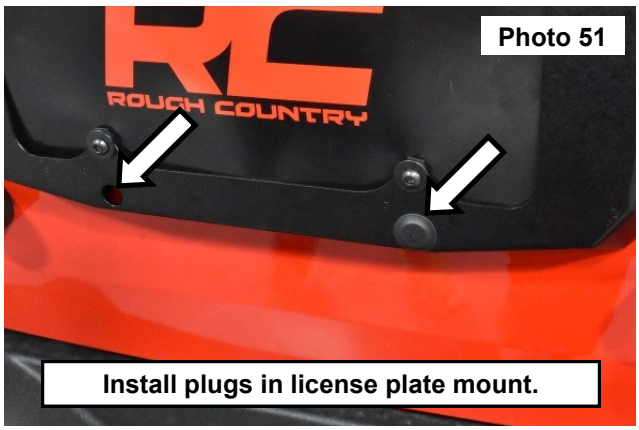
45. Attach the new wire to the stock connector using the supplied butt connectors. **See Photo 48**.
46. Reinstall rear trim and access panels in the door.
47. Install the supplied 6mm clip nuts to the license plate. **See Photo 49**. **NOTE: You may need to cut a small notch in the edge to get the clip nut to align with the hole**.





48. Install the license plate to the mount with the supplied 6mm bolts using a 4mm Allen wrench. **See Photo 50**.
    NOTE: Using tape to make a handle will make installing the license plate easier.
49. Install plugs in the license plate mount holes. **See Photo 51**.





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