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Rough Country 51213 Installation Instructions

Tubular Rear Bumper with D-Rings and Sensor Inserts

Part number: 51213

trailfortress.com/tubular-rear-bumper-rough-country-51213

Scan for fitment, price and install help

925121300

Ram 2010-24 2500/3500 Rear Tubular Bumper

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:

Rear Bumper
License Plate LED Light x1
D-Ring x2
Pass Side Mesh Light Cover x1
Dr Side Mesh Light Cover x1
09-18 1500 Wire Harness Ext x2
19-Up 2500/3500 Wire Harness Ext x4
Sensor Mount Kits x6:
Sensor Hole Plugs x6
Sensor retaining Caps x6
20mm x 10mm Foam Spacers x6
15.5mm x 25mm OD x 2mm Foam Washers x6
Sensor Cover Kit x1

Hardware Included:

12mm Bolt Plate x2
12mm x50mm Bolts x4
12mm Flat Washers x4
6mm Hex Flange Nuts x4
12mm Plastic Retainers x4
Cable Ties x10
6mm x 20mm Bolts x4
6mm Lock Washers x2
4mm Self tapping Screws x12
4mm x12mm Flat Washers x4
4mm Hex Nuts x2
4mm Lock Washers x2
4mm x 10mm Button Head Bolt x2
6mm x 16mm Button Head Bolt x2
6mm x 18mm Flat Washers x4
6mm Hex Nuts x2
License Plate Plastic Plug x2
12mm Plastic Retainers x4

Tools Needed:

15mm Wrench or Socket
18mm Wrench or Socket
2.5mm Allen Wrench (Included)
4mm Allen Wrench (Included)

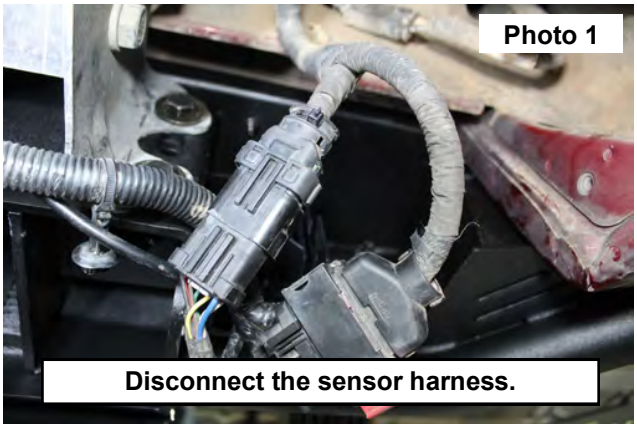


Torque Specs:

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

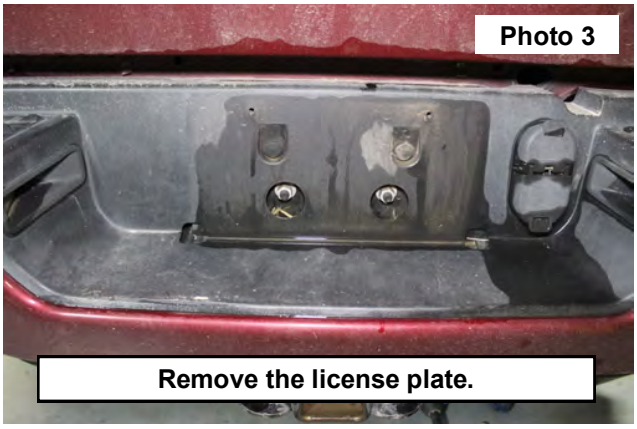
INSTALLATION INSTRUCTIONS

1. Disconnect the wiring harness for the sensors and the trailer plug from under the bumper. **See Photo 1.**
2. Remove the (2) frame mount bolts using a 18mm socket on the right and left side of the bumper. **See Photo 2.**





3. Remove the license plate from the rear bumper. **See Photo 3.**
4. Support the bumper and remove the 2 center nuts from the bumper using a 18mm socket. **See Photo 4.**



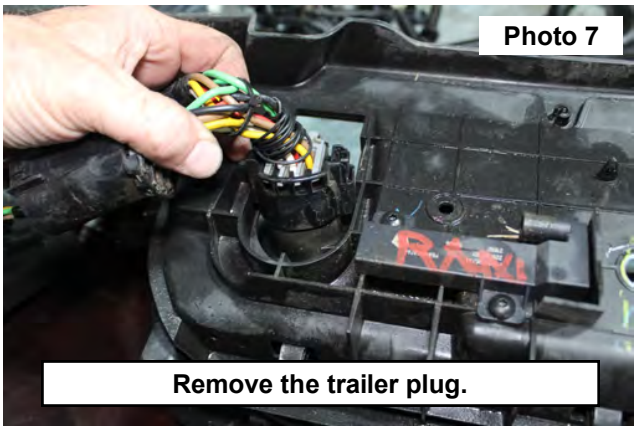


5. Remove the rear bumper from the vehicle. Set aside the bumper in a safe place for the removal of the wiring harness. **See Photo 5.**
6. Remove the plastic push pins that secure the wiring harness to the bumper **See Photo 6.**



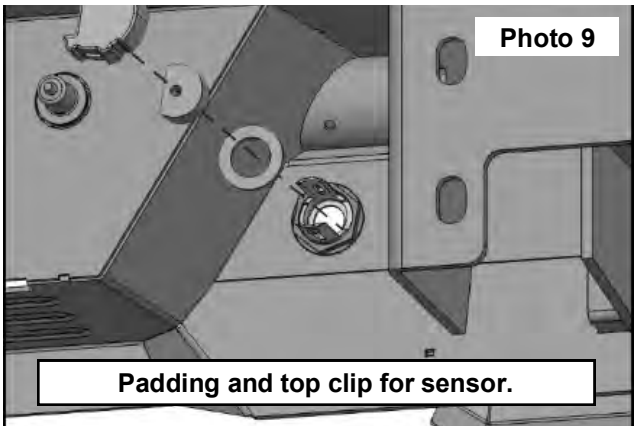


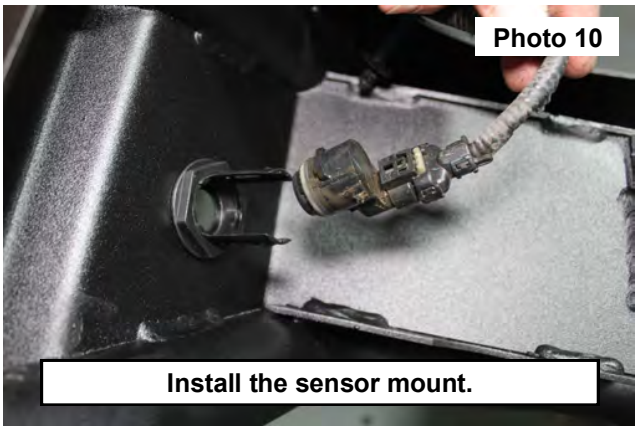
7. Disconnect the trailer plug wiring harness from the bumper. **See Photo 7.**
8. Release the tabs from the back up sensors, Then remove the sensors from the bumper. **See Photo 8.**
9. Remove the wiring harness from the bumper.



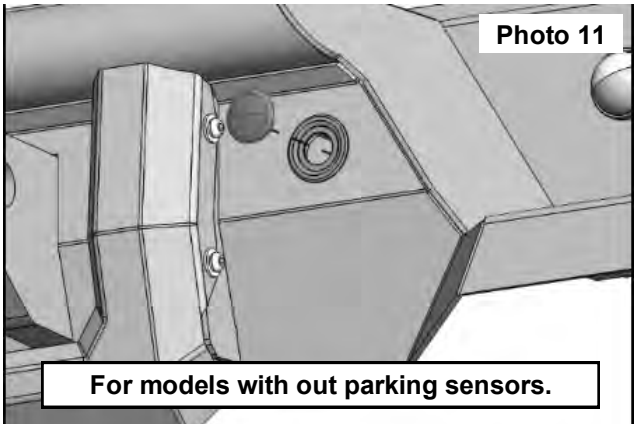


10. Installing the sensors into the bumper, tighten the (2) part sensor mount into the holes of the new rear bumper. Use the rubber bumper and the cap shown in photo 9. Press the sensor into the mount seating the sensor face to the outside of the mount. Then use the rubber bumper and cap to secure. **See Photos 9 and 10.**



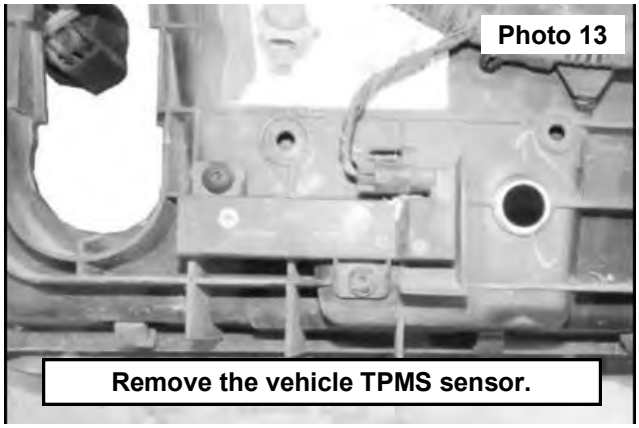


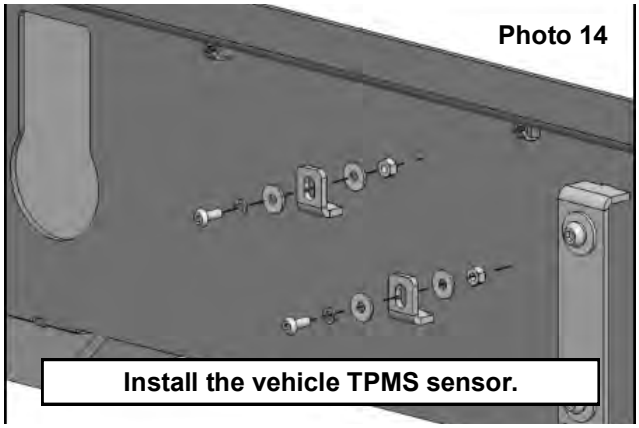
11. If not equipped with rear sensors install the sensor plug into the bumper. **See Photo 11.**
12. Install the trailer plug into the bumper, seat the plug using the OE clips on the back side. **See Photo 12.**



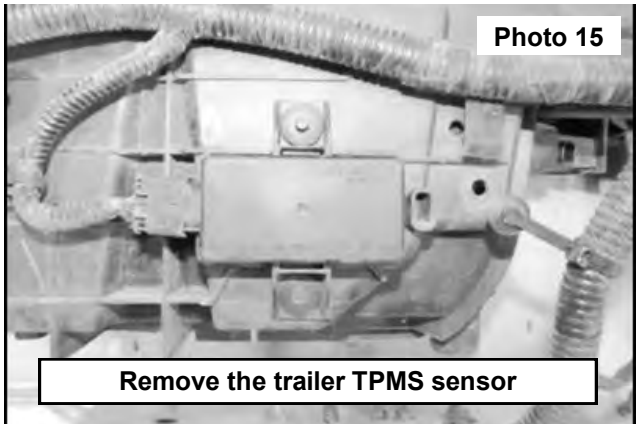


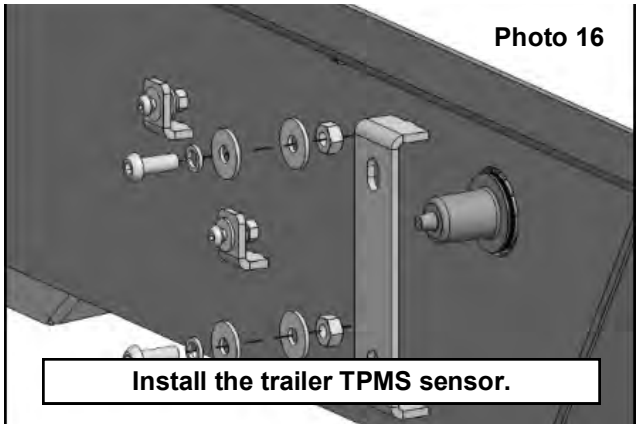
13. If equipped, Remove the vehicle TPMS sensor from the bumper and install onto the bumper using (2) of the supplied 4mm Button head bolts, (2) 4mm lock washers and (4) 4mm Flat Washers and (2) 4mm hex nuts. **See Photos 13 and 14.**





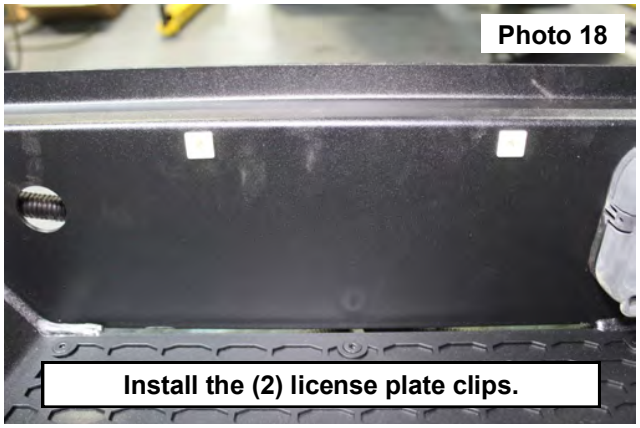
14. If equipped, Remove the trailer TPMS sensor from the bumper and install onto the bumper using (2) of the supplied 4mm Button head bolts, (2) 6mm lock washers and (4) 6mm Flat Washers and (2) 6mm hex nuts. **See Photos 15 and 16.**



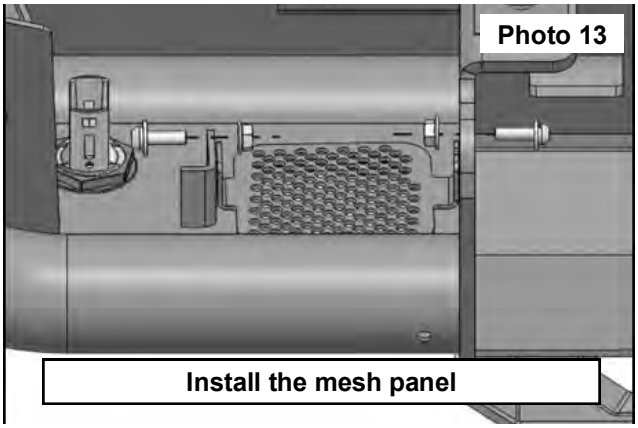


15. Install the wiring harness onto the bumper. Connect the sensors and the rear trailer plug. **See Photo 17.**
16. Place the (2) license plate clips into the square holes in the bumper. **See Photo 18.**





17. Install the mesh panel or the LED lights inside the bumper using the supplied hardware and the corresponding instruction sheet for wiring installation. **See Photos 18 and 19.**





18. Remove the connection plate on the right and left frame end bolts using a 18mm wrench. **See Photo 15.**
19. Support and Place the bumper onto the rear frame ends. **See Photo 16.**





20. Place (1) of the flag nuts (per Side) inside the bumper mount and secure using (2) of the supplied 12mm bolts and (2) 12mm washers. Install the retained OE hardware into the inside bumper mounts. **See Photo 17.**
21. Tighten the bumper hardware using a 18mm socket.
22. Install the D-Rings onto the right and left side of the bumper. **See Photo 18.**





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