TRAIL FORTRESS

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Rough Country 10646 Installation Instructions

Rear Bumper with Bed Steps and LED Cubes for Gladiator

Part number: 10646

trailfortress.com/rear-bumper-gladiator-rough-country-10646

Scan for fitment, price and install help

ROUGH COUNTRY
SUSPENSION SYSTEMS®

921064600

JEEP 2020-UP GLADIATOR REAR 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:
Bumper x1
Double Flag Bolt x2
Flag Bolt x2
2" LED Light Pods x2
D-rings x2
Bumper Brace x2

TOOLS NEEDED:
2.5mm Allen Wrench
Flat Pry Tool
13mm Socket and Socket
16mm Wrench and Socket
19mm Wrench and Socket
21mm Wrench and Socket

HARDWARE INCLUDED:
Wire ties x10
Sensor Plugs / Seals x4
12mm Lock Washer x4
12mm Flat Washer x4
12mm Flat Washer x10
12mm Lock Nut x6
12mm Hex Nut x4
12mm x 40mm Hex Bolt x4
4mm x 10mm Button Head x8
Plastic Bolt Retainers x4



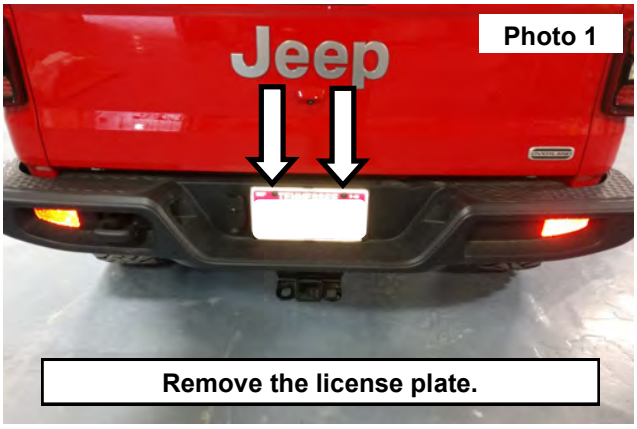
Torque Specs:

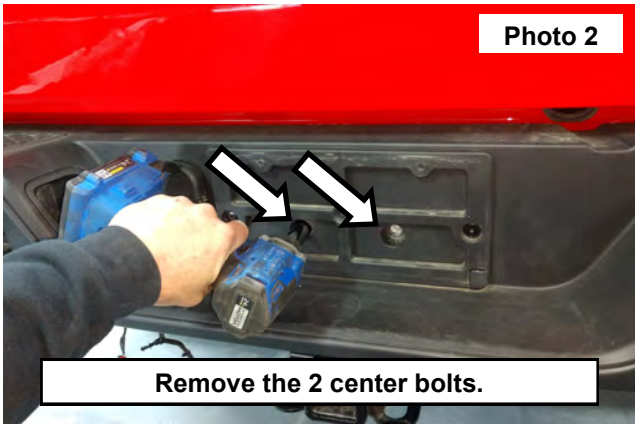
Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16"	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
3/8"	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16"	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2"	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16"	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8"	135ft/lbs	175ft/lbs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

RC ROUGH COUNTRY

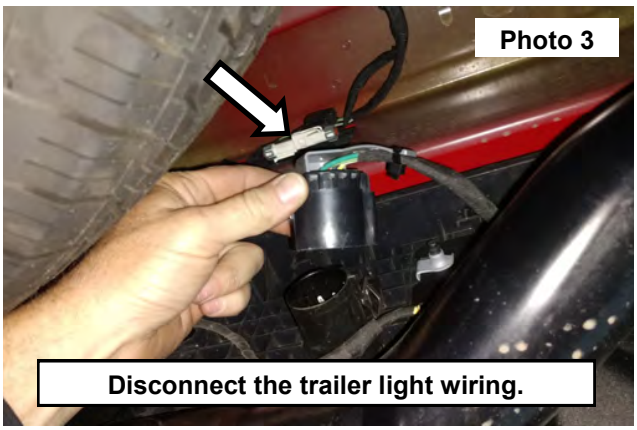
INSTALLATION INSTRUCTONS

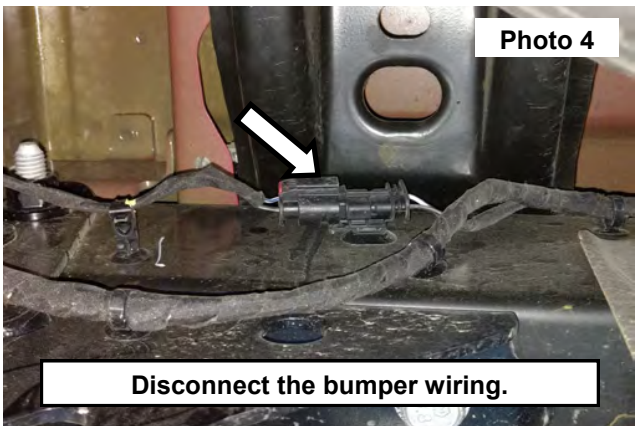
1. Remove the (2) license plate screws using a Phillips screw driver. **See Photo 1.**
2. Remove the (2) bolts in the center of the bumper using a 16mm socket. **See Photo 2.**



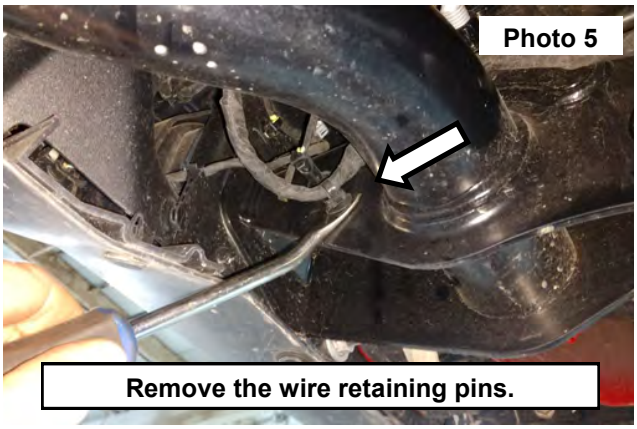


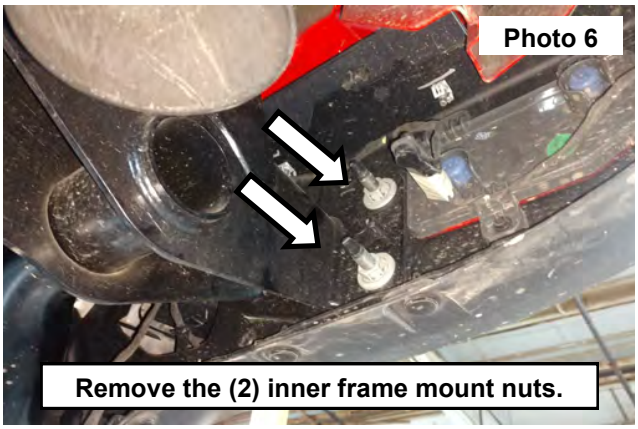
3. Disconnect the trailer light wiring harness from the bumper plug. **See Photo 3.**
4. Disconnect the sensor and license plate wiring from the frame plug. **See Photo 4.**



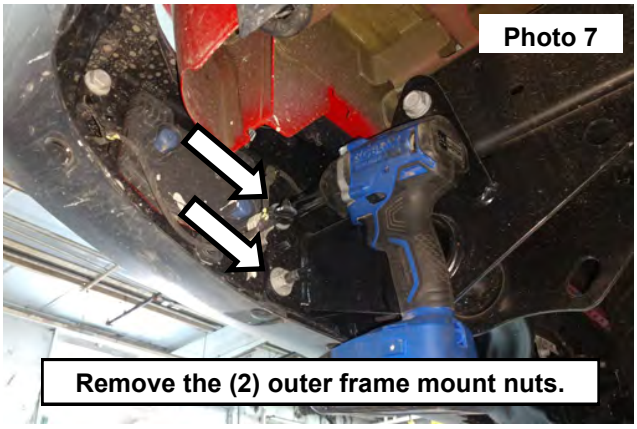


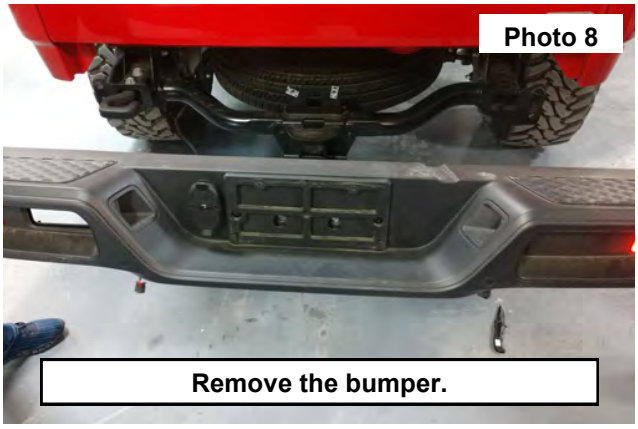
5. Use a pry tool to remove the wire retaining pins from the bumper. **See Photo 5.**
6. Support the bumper. Do not get under the bumper with out support.
7. Remove the (2) outer frame mount nuts on the drivers side using a 16mm socket. **See Photo 6.**



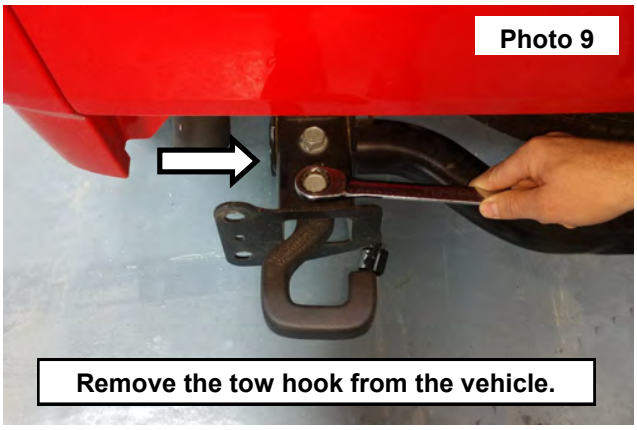


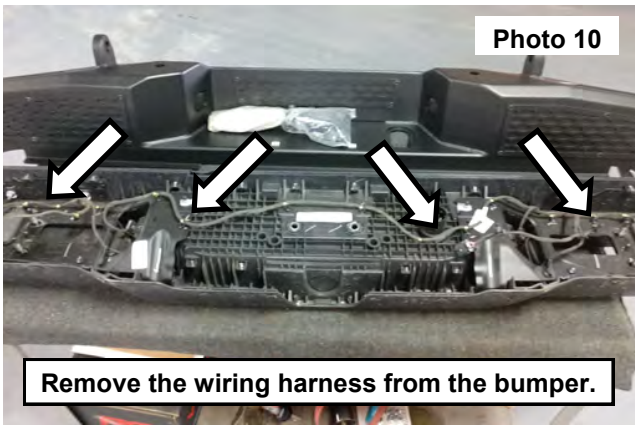
8. Remove the (2) outer frame mount nuts on the passengers side using a 16mm socket. **See Photo 7.**
9. Remove the bumper, Place it in a safe location for continued disassembly. **See Photo 8.**



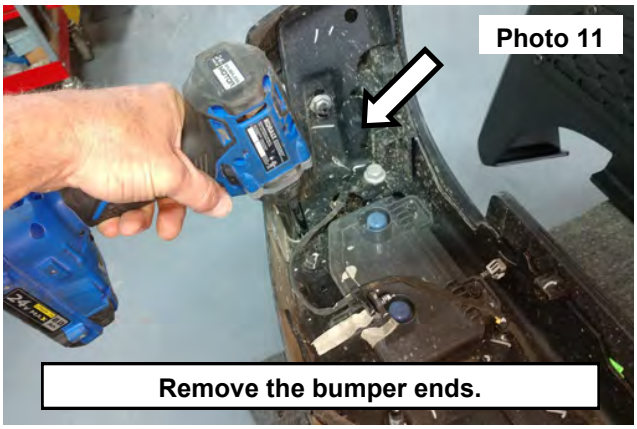


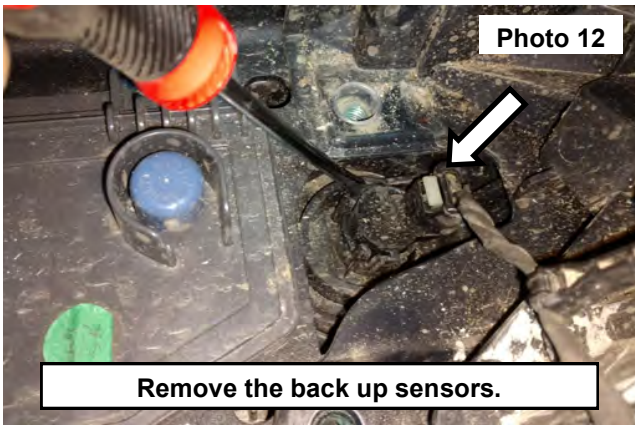
10. Using a 21mm wrench, remove the tow hook from the frame mount. **See Photo 9.**
11. Unclip the wiring harness from the back up sensors and the license plate lights. Then remove the wiring harness from the bumper. **See Photo 10.**



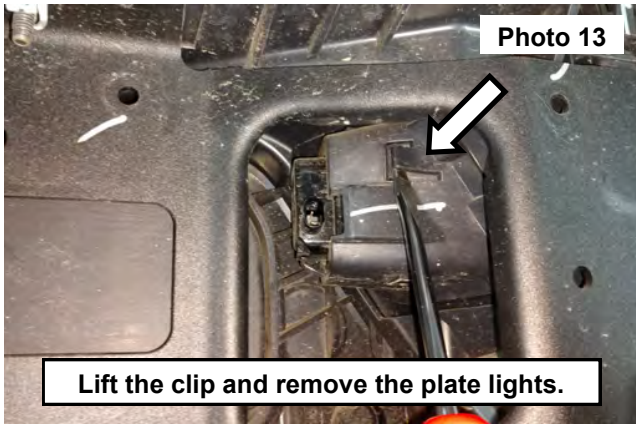


12. Using a 13mm socket remove the (3) nuts on the ends of the bumper. Then remove the metal guard from both sides of the bumper. **See Photo 11.**
13. Using a flat head screw driver unclip and remove all back up sensors from the bumper. **See Photo 12.**





14. Use a flat pry tool to lift the clip and remove the license plate lights on each side of the bumper. **See Photos 13.**
15. Use a flat pry tool to remove the trailer light plug from the bumper. **See Photo 14.**





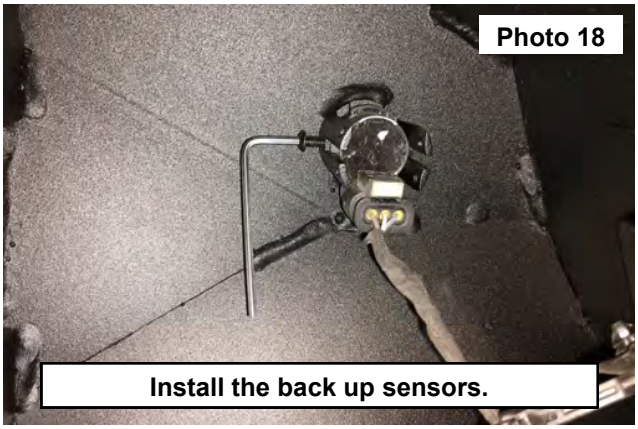
16. Locate the new bumper and all accessories that where removed from the factory bumper. **See Photo 15.**
17. Install the trailer light plug into the bumper, seat the clips on each side of the bumper to secure. **See Photo 16.**





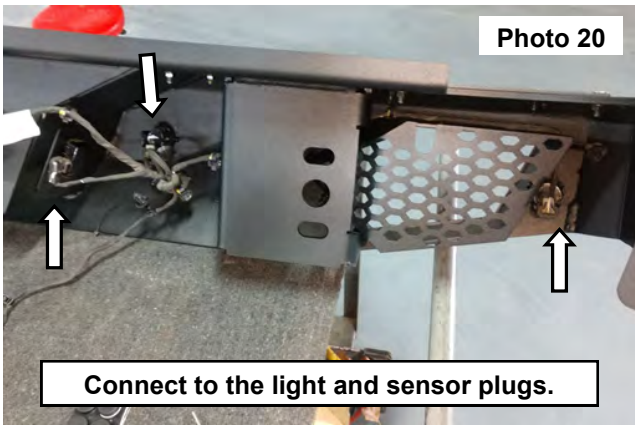
18. Place the (2) OE license plate light into the bumper, seat the light into the bumper to secure. **See Photo 17.**
19. Install all back up sensors into the bumper, secure by using (2) 6mm button head allen bolts. Tighten using a 2.5mm allen wrench. **See Photo 18.**



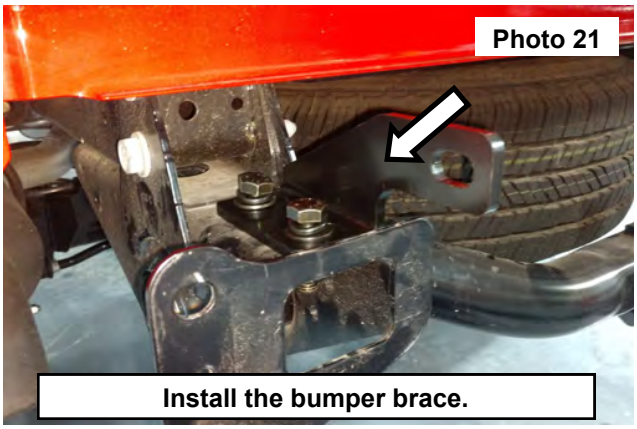


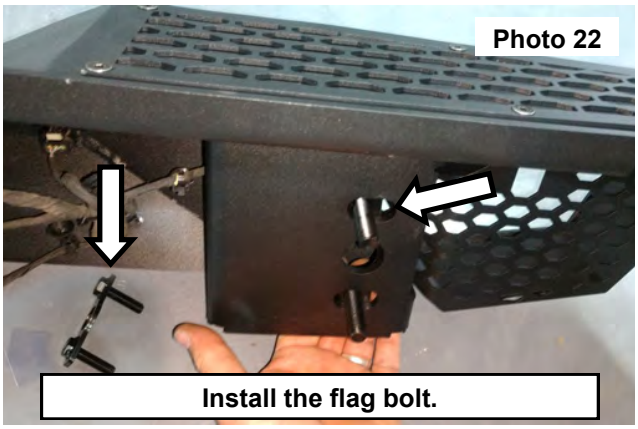
20. Install the wiring harness connecting to the back up sensors and the license plate lights plugs. **See Photos 19 and 20.**



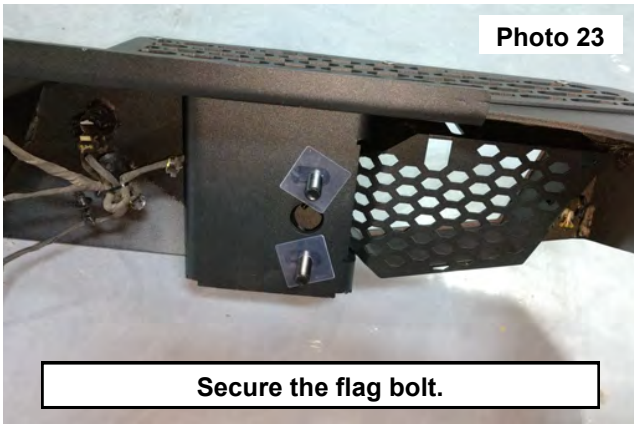


21. Install the bumper brace onto the top of the frame on each side. Secure using (2) 12mm hex head bolts (4) 12mm flat washers (2) lock washers and (2) nuts. Do not tighten at this time. **See Photo 21.**
22. Locate the flag bolt and install it into the bumper bracket. **See Photo 22.**



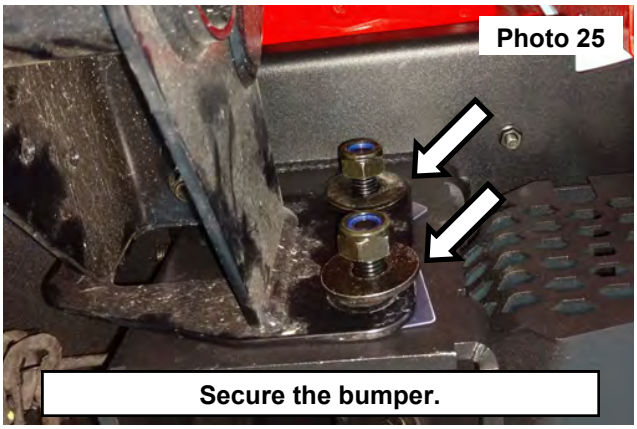


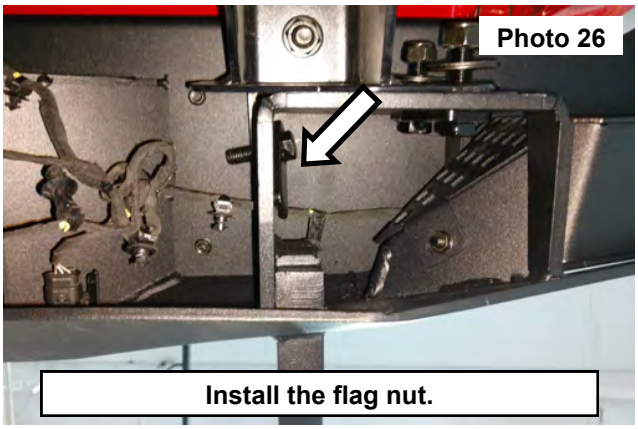
23. Secure the flag bolt using (2) of the supplied clear plastic retaining clips. **See Photo 23.**
24. Support the bumper. Do not get under the bumper with out support.
25. Install the bumper onto the vehicle. **See Photo 24.**



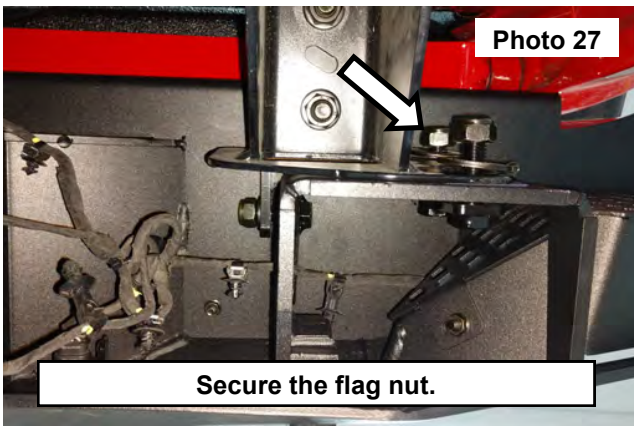


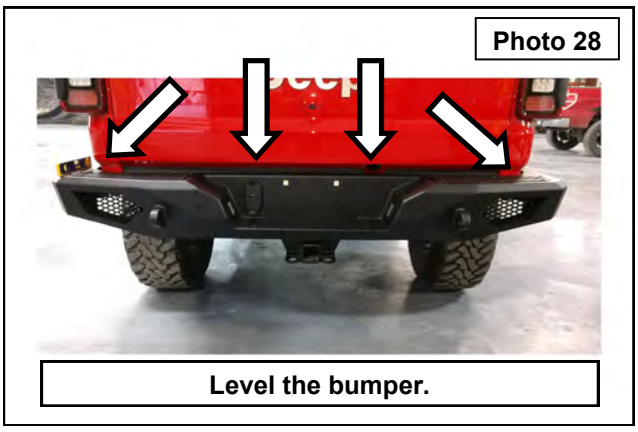
26. Secure the bumper on each side using (2) of the supplied 12mm flat washers and (2) 12mm nylock nuts but do not fully tighten. **See Photo 25.**
27. Install (1) flag bolt into the top of the frame bracket and into the bumper on each side. **See Photo 26.**



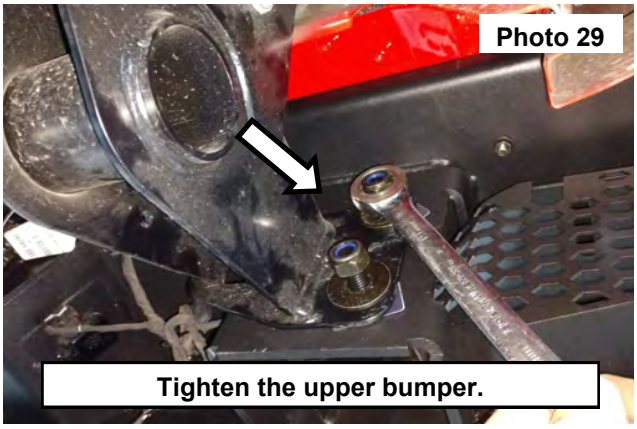


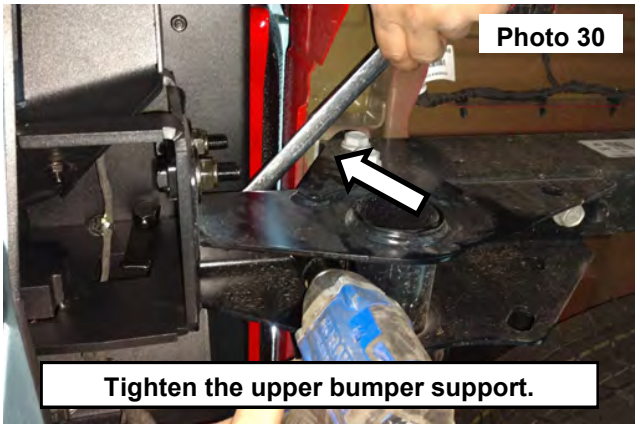
28. Secure using (1) 12mm flat washer and (1) 12mm nylock nut on each side but do not fully tighten. **See Photo 27.**
29. Level the bumper to the vehicle checking the gap on each side and across the tail gate. **See Photo 28.**



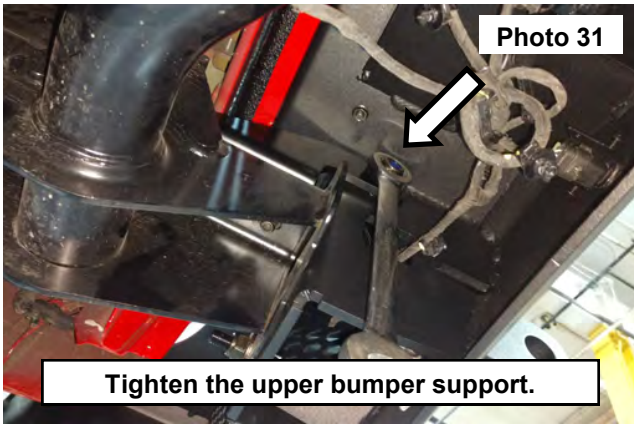


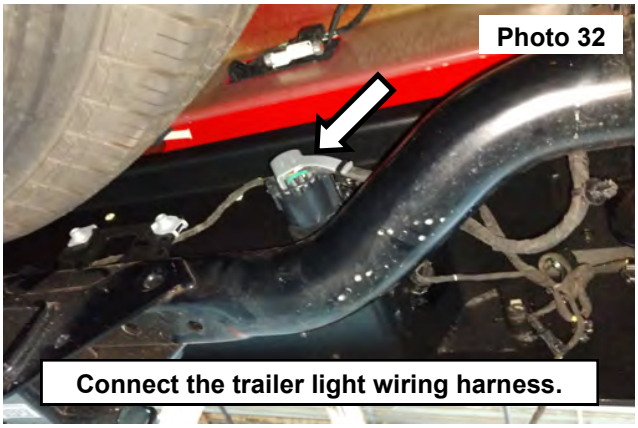
30. Make sure the bumper is all the way down in the brackets and tighten the upper bumper to the frame mounts first using a 19mm wrench and then the lower to ensure the bumper lip under the tail gate has proper clearance. **See Photo 29.**
31. Tighten the upper bumper support to the frame mount using a 19mm wrench and socket. **See Photo 30.**



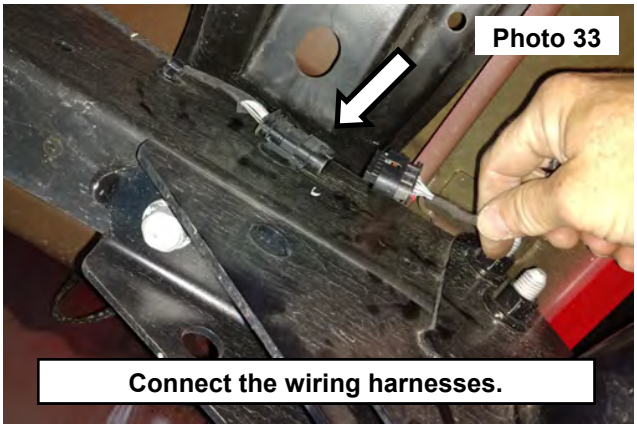


32. Tighten the upper bumper support to the bumper mount using a 19mm wrench and socket. **See Photo 31.**
33. Connect the trailer light wiring harness to the bumper plug. **See Photo 32.**





34. Connect the wiring harnesses from the bumper to the vehicle. Secure any wires from hanging or any heat source. **See Photos 33 and 34.**





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