

INSTALLATION MANUAL

FBD255BLR

Level of Difficulty

Moderate

Installation difficulty levels are based on time and effort involved and may vary depending on the installer level of expertise, condition of the vehicle and proper tools and equipment.

Parts List

Qty	Description
1	Fog light bolt pack, LBD251BP
1	Winch plate bolt pack, WPD255BL1
1	License plate bolt pack, FBLPRCBP
1	Grill insert 2
2	Center sensor bracket
1	DS Mounting plate
1	PS Mounting plate
4	Hex head bolt, ½"-13 x 4", grade 8
8	Hex head bolt, ½"-13 x 2", grade 8
24	Flat washer, ½"
12	Lock washer, ½"
12	Hex nut, ½"-13
11	Black button head bolt, ¼"-20 x ¾"
11	Black kep nut, ¼"-20
6	Rubber grommet
1	Wiring harness
1	Front Bumper Replacement

Tools Required

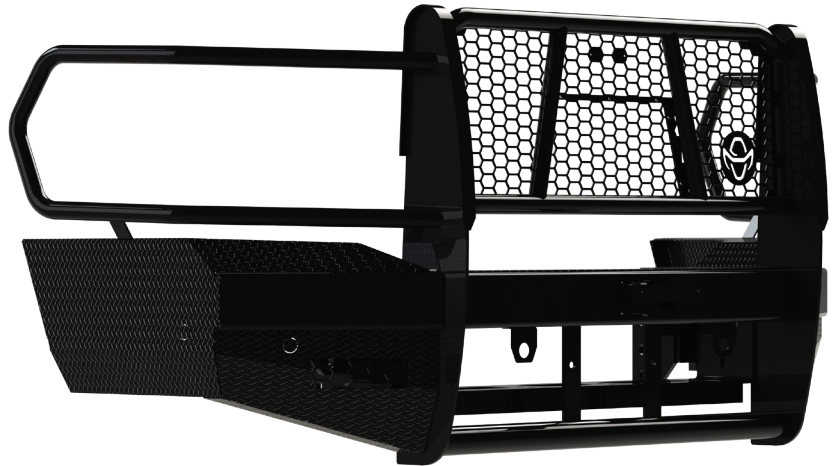
Ratchet	Torque wrench
SAE Socket set	Metric Socket set
SAE Wrenches	Metric Wrenches
Allen wrench, 5/32"	Extension (Optional)
Hammer (Sensor Models)	Punch (Sensor Models)
Tape Measure	

Torque Specifications

3/8" bolt	30 ft-lbs.
1/2" bolt	110 ft-lbs.
M12 bolt	59 ft-lbs.
M14 bolt	139 ft-lbs.

Use above torque setting unless otherwise noted

Product Photo



NOTICE

Visit www.ranchhand.com for a full-color copy of this instruction manual, as well as helpful videos, guides and much more!

Before you begin installation, read all instructions thoroughly.

Proper tools will improve the quality of installation and reduce the time required.

Always disconnect the vehicle battery before removing sensors or disconnecting wiring harnesses. Ranch Hand is not responsible for sensor miscalibration or accidental deployment of airbags during installation.

Always mark the orientation of sensors prior to removal from the factory bumper. Many vehicle sensors are calibrated to a particular orientation, and reinstallation sideways or upside down will impact vehicle performance. A piece of masking tape, a grease pencil, or other mark to indicate the sensor's original orientation will help to ensure proper re-installation.

Periodic inspection of your product should be performed to ensure all hardware and / or components remain secure.

To help prevent damage to the product or vehicle, refer to the specified torque specifications when securing hardware during the installation process.

Be sure to inspect and test fit product before having it coated or painted. Ranch Hand will not be responsible for the cost of the coating if any problems with fit or finish are not noted and addressed beforehand.

Maintenance

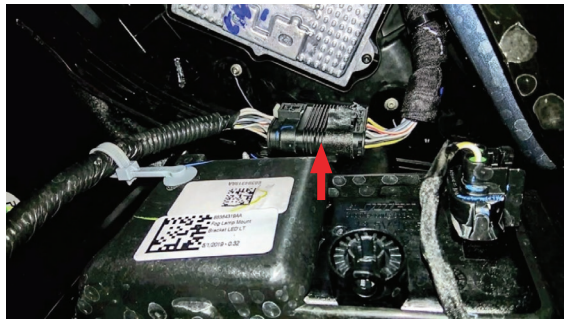
Mild automotive detergent may be used to clean the product. Do not use dish detergent, abrasive cleaners, abrasive pads, wire brushes or other similar products that may damage the finish.

Product Registration and Warranty

Ranch Hand stands behind our products with industry-leading warranties. To get copies of the product warranties, register your purchase or provide feedback, visit: warranty.curtgroup.com/surveys

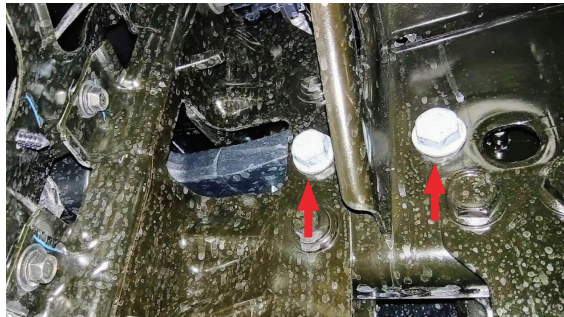
Step 1

Begin by locating the fog light / sensor wiring harness. The wiring harness is located just above the driver side fog light.



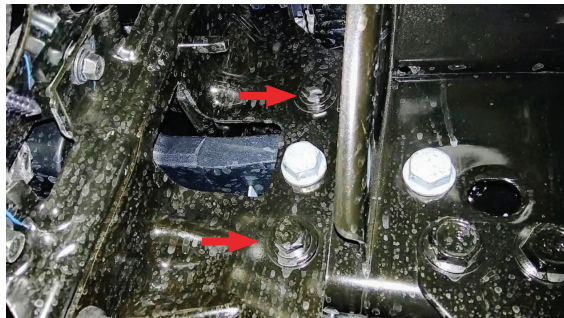
Step 2

Remove the factory tow hooks by taking off the two 24mm bolts.



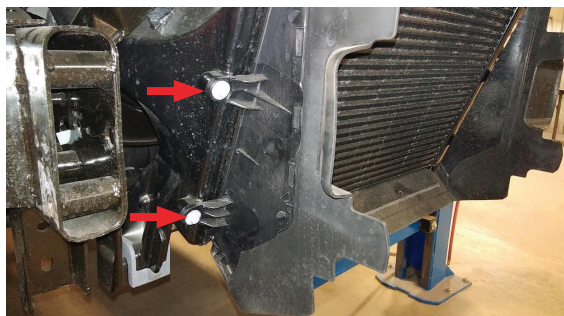
Step 3

Uninstall the factory bumper by removing the two 18mm bolts.



Step 4

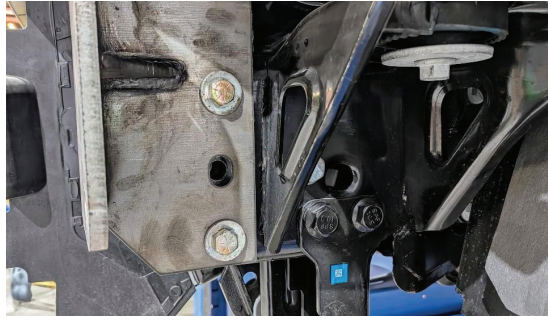
Remove the plastic shield that is around the radiator. There will be four 10mm screws and 4 plastic clips.



Step 5

Mount the provided mounting plates to the outside of the frame. The angle iron will rest on top of the frame.

Note: The two holes where the factory bumper was mounted may have to be drilled out to $\frac{1}{2}$ ". Use the $\frac{1}{2}$ " x 4" bolts, washers and lock nuts in the top and bottom holes.



Step 6

Reinstall the tow hooks using factory bolts.

Step 7

Install the winch and winch plate at this time. Leave the $\frac{3}{8}$ " hardware out so fog lights brackets can be mounted.

Step 8

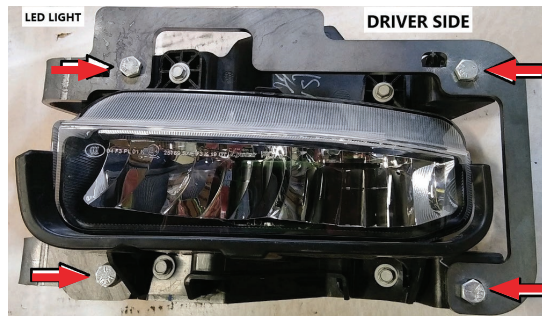
Install the Ranch Hand bumper to the mounting plates using $\frac{1}{2}$ " x 2" bolts, washers, lock washers and nuts.

Step 9

Center and level the bumper and then tighten all the bolts.

Step 10

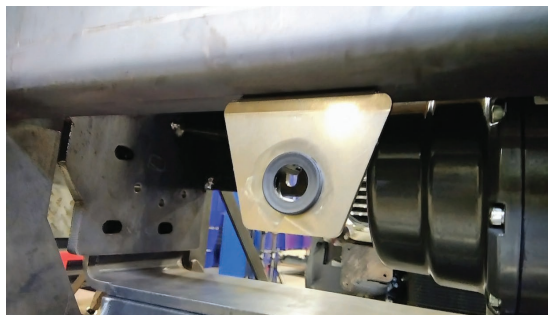
Remove the fog lights and mount them to the fog light brackets.



Step 11

On models with sensors, remove the knockouts for the outer sensors. For the center sensors, mount the small sensor brackets to the holes on the bottom side of the channel. Use black $\frac{1}{4}$ " button head bolts and nuts to install. Also, install the rubber grommets.

Note: You will need to use the wiring harness provided for the passenger side middle sensor.



Step 12

Remove the wiring harness from the factory bumper and install it in the Ranch Hand bumper. You can use WD-40 to help with sensor installation.

Step 13

Before installing the fog lights, mount the winch and winch plate following the instructions for WPD255BL1.

Step 14

Mount the fog light bracket to the two vertical 7/16" x 1" slotted holes located on the mounting bracket and winch plate. Level fog light through the skirt and use 3/8" x 1 1/2" bolts, washers, lock washers and nuts.

Step 15

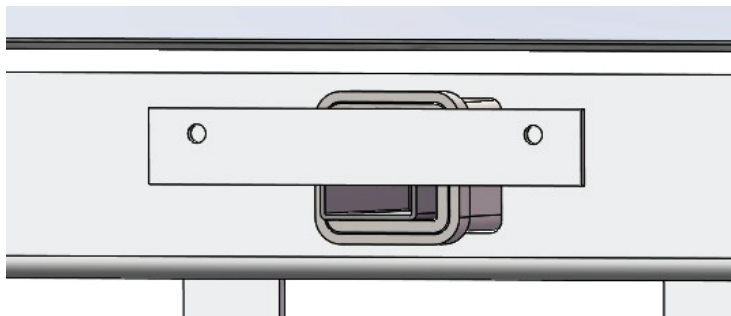
Plug in wiring harness.

Step 16

If your truck does not have a front camera, install the center insert. Use the black 1/4" button head bolts and nuts to install.

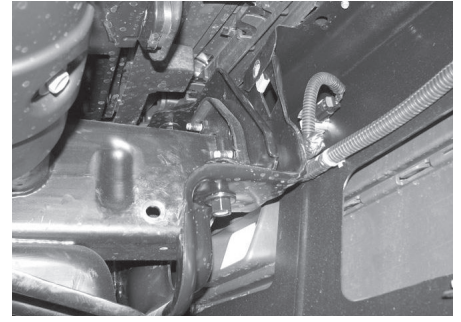
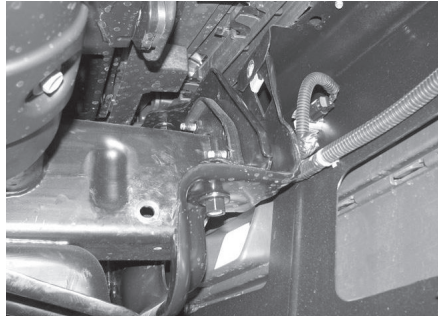
Step 17

Mount the license plate to the receiver hitch license plate bracket using 1/4" bolts and nuts. Then mount the bracket in the receiver hitch using a hitch pin (not provided).



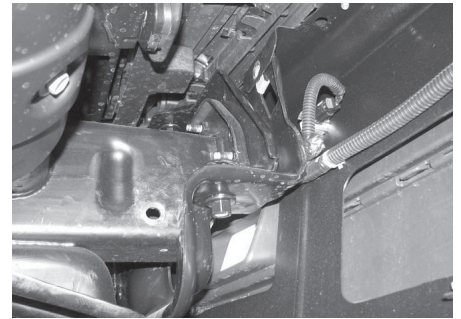
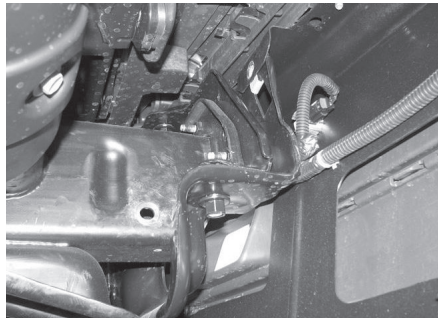
Step 1

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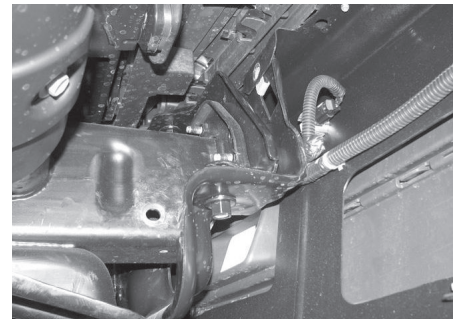
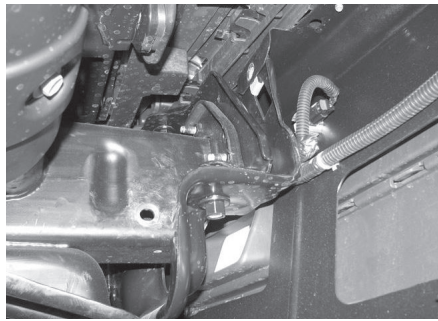
Step 2

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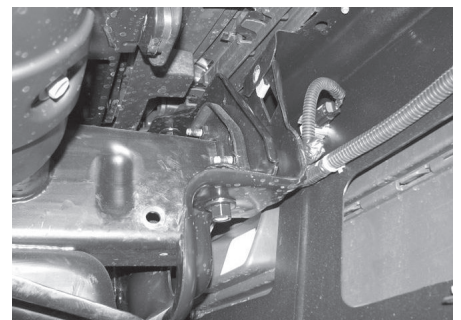
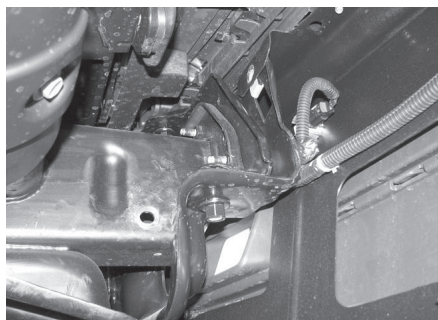
Step 3

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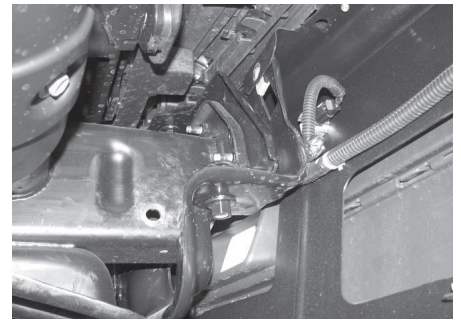
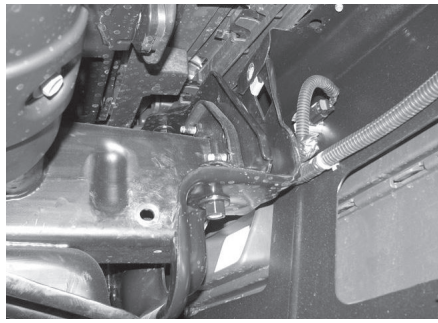
Step 4

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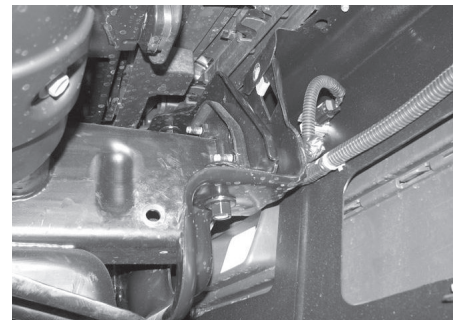
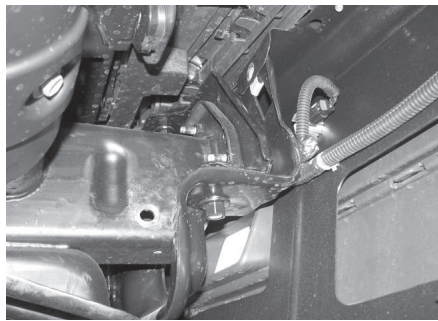
Step 1

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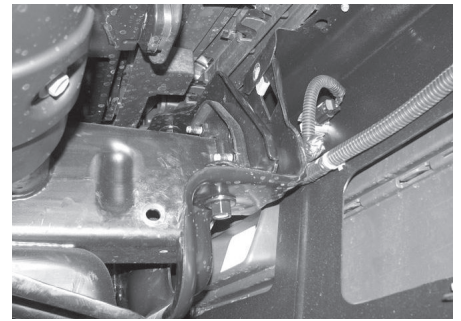
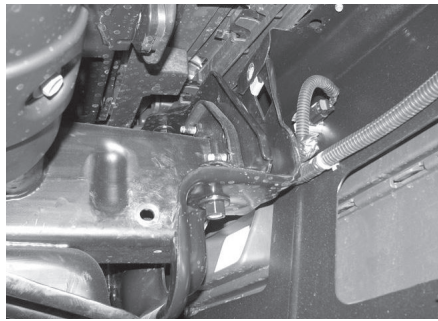
Step 2

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Step 3

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Step 4

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