



INSTALLATION MANUAL

MBF24HBMSL

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	Trailer/spare tire insert
2	Flush light insert
2	LED license plate light
6	Rubber grommet
6	Hex head bolt, 7/16"-14 x 1-1/2", grade 5
12	Flat washer, 7/16"
6	Lock washer, 7/16"
6	Hex nut, 7/16"-14
18	Button head bolt, 1/4"-20 x 3/4", black
18	Kep nut, 1/4"-20", black
1	Sport back bumper

Tools Required

Ratchet	Torque wrench
SAE socket set	SAE wrenches
Metric socket set	Metric wrenches
Allen wrench, 5/32"	Flathead screwdriver
Socket extension (optional)	Phillips screwdriver
	Wire cutters

Torque Specifications

7/16" bolt, grade 5 50 ft-lbs.

Use above torque setting unless otherwise noted

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

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.

Not compatible with King Ranch and Platinum models with brushed aluminum tailgate panels.

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.

Step 1

If reverse sensors are present, mark the sensors' position and orientation with a piece of masking tape or other mark and remove the sensors from the factory bumper.

NOTICE

Mark the orientation of the sensor prior to removal to ensure correct re-installation. Failure to reinstall the sensor in the correct orientation may impact vehicle performance.

Step 2

Disconnect the license plate lights and remove the license plate. Disconnect the trailer plug and remove it. Remove the spare tire release cover.

Step 3

Squeeze the plastic clips located on the bottom side of the bumper together and push up to release the plastic trim piece at the top of the bumper and remove it.

Step 4

Remove the six (6) bolts from behind the sides of the bumper (three from each side) from the back side of the bumper. Then remove the two (2) bolts on the top of the bumper which were covered by the plastic panel removed in step 3.

Step 5

Using black 1/4" x 3/4" button head bolts and nuts, secure the trailer/spare tire plug insert to the back side of the bumper.

Step 6

Install the vehicle license plate using 1/4" x 3/4" bolts and nuts.

Step 7

If flush mount lights were purchased, install them with 1/4" bolts and nuts. If not, install the provided light inserts.

Step 8

Install the Ranch Hand bumper using 7/16" bolts, flat washers, lock washers, and nuts.

Step 9

If sensors are present, remove the "knockouts" from the bumper. Install the rubber grommets to hold the sensors.

Step 10

If sensors are present, install the sensors into the bumper, taking care to observe the orientation marks made in step 1.

Note: Lightly spray silicone lubricant onto the rubber grommets to ease installation of the sensors into the holes.

Step 11

Install the license plate lights and splice their wiring into the factory license plate wires. Install reverse lights and splice their wires into the truck's reverse light wires.