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RANCH HAND
PROTECT YOUR TRUCK

MAINTENANCE/CARE

- Periodically check and tighten all fasteners.
- Stripped, fractured, or bent bolts or nuts need to be replaced.
- After washing of the vehicle make sure to fully dry all surfaces

SENSOR DISCLAIMER

PLEASE NOTE PARKING SENSORS ARE EXTREMELY DELICATE AND MUST BE HANDLED WITH CARE!

Do NOT touch or shift the clear rubber grommet that surrounds the sensor face. DO NOT glue housing into place until orientation and functionality is determined.

APPENDIX

Troubleshooting Vehicle Sensors

- Start with a general inspection of the sensor fitment. Check that both the sensors and the sensor clips are fully secure and the sensors are properly centered in the housing.
- Confirm plastic housing is in the correct mounting holes. Misplaced sensor housings could compress sensor and give false readings or faults.
- Use a clean microfiber to wipe the front face of the sensor.
- Inspect connection. Be sure that the sensor is firmly seated into the harness.
- Run through several start cycles (i.e. fully turn the vehicle on and off).
- Finally, disconnect the battery to reset the sensors.

WARNING

If your vehicle has adaptive cruise, please ensure that your adaptive cruise is working correctly once the Ranch Hand bumper is installed. Adaptive cruise may need to be cleaned or adjusted to ensure it functions properly. See your owner's manual for care of the adaptive cruise.

Special care should be exercised in the handling, storage and installation of Kaspar Ranch Hand equipment. The actual weight of each piece of equipment will vary depending on style and model. The weight of the equipment is sufficient in volume to warrant special care, assistance and in some instances, the use of mechanical equipment during the transfer and installation of the equipment. Do not assume a position directly under the equipment during installation. Be sure the equipment has been connected and stabilized during installation to prevent falling or shifting of positions. Periodically check tightness of bolts to make sure they are tight, and unlikely to fail.

SAFETY

- In order to help you make informed decisions about safety, we have provided installation instructions and other information.
- These instructions alert you to potential injury hazards
- Please do a job safety analysis before each task to identify potential hazards for your situation and remove/protect against them.
- You must use your own good judgment.
- Read and understand all safety precautions and instructions before installing this product

HAZARD

FAILURE TO OBSERVE THESE INSTRUCTIONS COULD LEAD TO SEVERE INJURY OR DEATH.

- Always remove jewelry and wear eye protection.
- Always use extreme caution when jacking up a vehicle for work. Set emergency brake and use tire blocks. Locate and use the vehicle manufacturers designated lifting points. Use jack stands.
- Always use appropriate and adequate care in lifting components into place.
- Always insure components will remain secure during installation and operation.
- Always wear safety glasses when installing this kit. A drilling operation will cause flying metal chips. Flying chips can cause serious eye injury.
- Always use extreme caution when drilling on a vehicle. Thoroughly inspect the area to be drilled (on both sides of material) prior to drilling, and relocate any objects that may be damaged.
- Always use extreme caution when cutting and trimming during fitting.
- Always tighten all nuts and bolts securely per installation instructions.
- Always route electrical cables carefully. Avoid moving parts, components that become hot and rough or sharp edges.
- Always insulate and protect all exposed wiring and electrical terminals.
- Always perform regular inspections and maintenance on mounts and related hardware.



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INSTALLATION INSTRUCTIONS

DESCRIPTION

2011-14 Chevy/GMC 2500HD &
3500HD Legend Back Bumper

PART #:

BBC110BLSL

INSTALLATION INSTRUCTIONS:

1. If reverse sensors are present, remove the sensor from the factory bumper. DO NOT DISCONNECT THE SENSOR WIRES. Zip-tie the sensors to the frame to prevent damaging when installing the bumper.
2. If the factory receiver hitch is present, remove the bolts that hold the factory bumper to the receiver hitch together.
3. Loosen the bolts that hold the receiver hitch to the frame. Two of the bolts will be replaced with $1/2'' \times 1\ 3/4''$ bolts, nuts and washers. Let receiver hitch hang down.
4. Remove the factory trailer plug if present. Unhook the license plate lights.
5. Remove the bolts for the factory bumper and remove the bumper.
6. Set the trailer plug in the hole in the left bottom corner of the back plate. From the backside, mark through the $1/4''$ holes onto the trailer plug for holes to be drilled, Drill two $7/32''$ holes. Use the two $3/16''$ bolts from the front side to install.
7. If the reverse sensors are present. Remove the four plastic plugs from the skirts and install the rubber grommets.
8. Mount the Ranch Hand bumper to the frame. The mounting brackets will mount to the inside of the frame. Use two $1/2'' \times 2\ 1/4''$ bolt in the rear two holes. Use one $3/8'' \times 2''$ bolt in the front hole for each bracket.
9. Push the receiver hitch up and bolt the receiver hitch to the bracket on the Ranch Hand Bumper. Use $1/2'' \times 1\ 3/4''$ bolts to install. (Note: On some trucks, you will use the two $1/2''$ thick spacers between the receiver hitch and the bracket of the bumper.)
10. Tighten the bolts for the receiver hitch to the frame. Then tighten the bolts for the receiver hitch to the bumper bracket. Lastly, tighten the bolts for the bumper mounting bracket of the frame.
11. Mount the license plate by using two $1/4''$ bolts
12. Install the sensors into the rubber grommets. You may want to use a small amount of silicon to help secure the sensor into the grommet.
13. Make sure all nuts and bolts are tight!!

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TOOLS REQUIRED

Metric and SAE Sockets
Metric and SAE wrenches

