

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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RANCH HAND
PROTECT YOUR TRUCK



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INSTALLATION INSTRUCTIONS

DESCRIPTION

1999-03 Ford D-150 4x4/1999-
02 Expedition 4x4
Legend Grille Guard

PART #:

GGF994BL1

INSTALLATION INSTRUCTIONS:

1. Remove the tow hooks. They will be reinstalled later.
2. Remove the top factory nut from the bumper support bracket that bolts the bumper to the frame.
3. Slide brackets starting from the ends of the bumper to the location over the bolts then reinstall nuts. (NOTE: there is a driver and passenger side top bracket. The driver side is a little longer and is slightly over bent.)
4. Place the grille guard on the truck. Use 1/2" x 1 1/2" bolts to mount the grille guard to the top brackets. Center from left to right, and hand tighten bolts.
5. Replace the tow hooks using the factory bolts. If the holes do not line up, try adjusting the location of the top brackets.
6. Center from left to right and tighten the bottom bolts and then the top. (Note: If guard is leaning to one side, use washers as spacers between the frame and bottom bracket of the side until leveled.
7. **MAKE SURE ALL NUTS AND BOLTS ARE TIGHT!!**

PARTS LIST

Hex Head Bolt: 1/2" - 13 x 1 3/4"	QTY: 8
Hex Head Bolt: 1/2" - 13 x 2"	QTY: 8
Hex Head Bolt: 1/4" - 20 x 1"	QTY: 5
Flat Washer: 1/2"	QTY: 32
Lock Nut: 1/2" - 13	QTY: 16
Key Nut: 1/4" - 20	QTY: 8
Hex Head Bolt: 1/4" - 20 x 1 1/2"	QTY: 3
Flat Washer: 1/4"	QTY: 4
Hex Head Bolt: 5/16" - 18 x 1"	QTY: 2
Flat Washer: 5/16"	QTY: 4
Lock Washer: 5/16"	QTY: 2
Hex Nut: 5/16" - 18	QTY: 2
Poly Bag: 6" x 10"	QTY: 1
Poly Bag: 16" x 18"	QTY: 1
Unthreaded Spacer: 3/8" x 1/2" x .26" ID	QTY: 4
FSF15HACP: Adaptive Cruise Plastic	QTY: 1
FBF171ACBBL: Adaptive Cruise Bracket	QTY: 1
FBF171MPABL: Mounting Bracket	QTY: 2

TOOLS REQUIRED

- Socket Wrench with Extension (Ratcheting wrenches may also be convenient)
- 7mm, 10mm, 15mm, 18mm, 19mm, 3/4 Sockets and Box End Wrenches
- Flat head screw drivers
- Floor jack, jack stands and/or a wood block
- 9/16 drill bit with drill

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.

