

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.

CONTACT

EMAIL:

info@ranchhand.com

PHONE:

1.800.366.9712

ADDRESS:

959 State Hwy 95 N
Shiner, TX 77984



RANCH HAND
PROTECT YOUR TRUCK



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INSTALLATION INSTRUCTIONS

DESCRIPTION

2017-UP FORD SUPER DUTY
LEGEND FRONT BUMPER

PART #:

FBF171BLR / BTF171BLR/
FBF175BLR

INSTALLATION INSTRUCTIONS:

1. Unhook the fog light wiring harness.
2. Remove the side bumper bracket bolts. Two on each side.
3. If an Adaptive Cruise Control Module is present, located on the driver side, it will need to be unplugged and removed. It will be installed later.
4. Remove the factory bumper by removing the eight 18mm bolts. Four on each side.
5. Remove the tow hooks. There are four 18mm bolts holding each tow hook.
6. **Note:** Before installing the mounting plates, make sure the top of the frame rails and the bottom sides of the mounting plates are free of splatter. Slide the tow hook through the opening and mount the mounting plate over the frame. Use the tow hook bolt to install back to the frame. Use four 1/2" x 1 3/4" bolt, facing towards the inside of the frame, to mount the mounting plate to the inside of the frame.
7. Make sure the holes of the tow hook bracket and the holes of the mounting plate line up.
8. Mount the front bumper replacement to the mounting plates by using the 1/2" x 2" bolts.
9. Center the frontend from side to side and raise or lower the frontend as needed.
10. Mount the Adaptive Cruise Control Module to the Adaptive Cruise Bracket (FBF171ACBBL) provided. Use the 1/4" x 1 1/2" bolts provided. Use the four plastic spacers between the adaptive cruise bracket and the rectangle plastic cover. Mount the bracket to the angle iron that is located on the underside of the top plate with 5/16" bolts. The A.C.C. module will face forwards.
11. **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
Kep 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.

