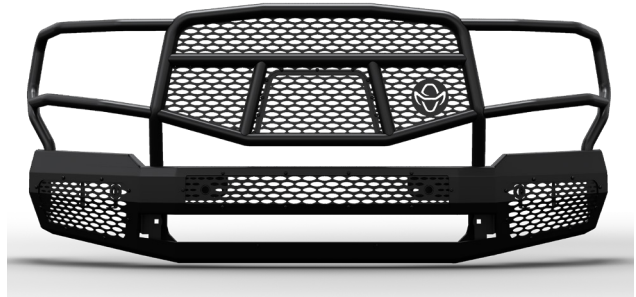


## TOOLS REQUIRED

- Socket with extension (ratcheting wrenches may also be convenient)
- 7mm, 8mm, 9mm, 10mm, 15mm, and 5/8" sockets and box end wrenches
- T15 torx
- Hex key sets
- Flat head screw drivers
- Floor jack and wood block.
- 9/16" socket
- 9/16" wrench



Please read through the entire set of instructions before continuing with installation to familiarize yourself with the process, save time, and make sure that you have all the correct tools and parts needed to complete this installation. More detailed instructions can be found on our website.

## DISASSEMBLY INSTRUCTIONS

1. With a flathead screwdriver, carefully remove the center plastic piece of the front bumper.
2. With a 21 mm socket, now remove the three nuts per side, two are located under the plastic center piece (ref. fig. 2a-b) and the third accessible from the back of the frame (ref. fig. 2c). If front OEM bumper contains the adaptive cruise control module it will be located behind the driver's side cover (ref. fig. 2a). Remove adaptive cruise control unit using an E6 external socket to remove the studs located with the arrows. Unplug the device.
3. Now you must remove the electrical harness. First, unplug fog light and remove one (1) Christmas tree plug on each side. After that, slowly pull away bumper checking to make sure nothing is still connected.
4. Now you must remove the tow hooks. First, pull the rubber covers off the tow hooks. Now use a 15 mm socket to remove the two bolts one each side that hold the tow hook in place.
5. Gently slide out both nut strips from the frame channel.
6. If your vehicle model includes a louver system for the intercooler located between the frame mounts, the shroud must be removed. Special care must be taken not to damage louvers when cutting around the base of the rectangular shroud, a cut off wheel is recommended.
7. You must now remove the rubber piece under the headlights. Remove or pull out the push pins that hold the rubber piece in place.

## PREPPING THE MIDNIGHT FRONT BUMPER FOR INSTALLATION

To prepare for installation, begin by laying out the included components in the box. Each part required for installation is wrapped individually and should be accounted for along with the included checklist. Please inspect all parts of your new Ranch Hand product before installing. If any parts are missing or damaged, please contact the Ranch Hand Customer Service Team, [customerservice@ranchhand.com](mailto:customerservice@ranchhand.com), immediately before proceeding with installation.

1. Begin by taking the bumper out of the box and position the bumper on the ground, just as it would sit on your truck/SUV.
2. Locate the passenger and driver side fog light inserts and fog light brackets. \*Note: These must be installed at the same time as they share two of the provided bolts, washers, and bolt locations.
3. Place the fog light insert through the back of the bumper. Using a 5/32" Allen wrench, Allen key, or hex key and 7/16" wrench secure the two bottom and two outer edge holes with the provided 1/4" socket button head bolts and Keps nut.
4. Place the fog light bracket in position over the fog light insert. Secure both the fog light inserts and bracket to the bumper using the 1/4" socket button head bolts and Keps nuts (8x per side).
5. Repeat this step for both the passenger and driver side of the bumper.
6. Place the center fog light insert, from the inside, in the middle of the bumper and begin securing the 1/4" socket button head

bolts and Keps nuts. Secure eight of the holes, leaving the center bottom two holes as is without bolts. These will be used to attach the license plate later.

7. Place the removable camera insert on the grille guard from the inside and attach with the ¼" socket button head bolts and Keps nuts. \*Note: If your vehicle comes equipped with a front mounted camera please skip this step.

### FOR VEHICLES WITH SENSORS

1. If your vehicle has OEM front parking sensors, carefully remove the sensors from the OEM bumper.
2. Using the grommets provided in the included bolt pack, reinstall the OEM sensors. Place the grommet inside the hole directly on the insert. Once it is in place, apply WD-40 around the inside of the grommet to help guide the sensor into place without damaging it. Push the sensor through the grommet from the back side of the insert.
3. If sensors are unable to fit into the sensor hole on the insert, knock out the hole entirely and continue by using the provided large diameter grommets.
4. Take the sensor pigtail/wires that were removed from the OEM bumper and route the wiring harness from sensor to sensor on the bumper. Route the wires through the mounting bracket using the holes located on the sides of both brackets. Be sure to avoid leaving the wiring harness on top of the bracket.
5. If using the OEM fog lights, use the provided OEM fog light mounting bracket (specific to your vehicle) and bolt it directly into the light pod mount.
6. Any and all aftermarket products that you plan to attach to the bumper, including lightbars, should be installed at this time for ease of installation.

### INSTALLING THE MIDNIGHT FRONT BUMPER

Refer to the provided schematic diagram that indicates proper placement of bolts and their locations. The following steps are recommended to be performed with at least one partner; we recommend having two partners to assist. One to help hold the bumper in place and the other to guide the bolts through the brackets and into the frame.

1. With one person supporting each side, line the bumper's mounting plate up with the mounting bracket. A third person should be underneath the vehicle to temporarily tighten each of the bolts to secure the bumper to the mounting bracket per mounting diagram.
2. With two people still supporting each side of the bumper, adjust the bumper so that there is an even amount of space along the grille, the headlights, and all the way across the front of the truck. Once the bumper is in place, continue by tightening all the mounting hardware.
3. Reconnect any OEM wiring harnesses disconnected when removing the OEM bumper. This includes fog light wiring harnesses or sensor wiring harnesses. All must be plugged back into OEM location on truck. It may be necessary to use zip ties to secure loose wiring.

Note: 2018+ Ford F-150 (Product Number: MFF18HBM1/MFF18HBMN) Midnight Front Bumpers do not require brackets from Ranch Hand for installation.

### ADA INSTALLATION

1. See packing list to identify ADA for installation.
2. Have one person hold the ADA bar in place while the other places bolts through the bolt holes and hand tighten the nuts (very similar to step 1 above titled, "Installing the Midnight Front Bumper). DO NOT over-tighten the bolts, otherwise step 2 will become difficult.
3. Adjust the placement of the ADA until it is flush and aligned with the rest of the bumper. Once in place, firmly tighten the bolts.

Note: If installing a winch tray (packaged/sold separately), do not install the ADA bar and please refer to the winch installation instructions at this time.

### LICENSE PLATE BRACKET INSTALLATION

1. Retrieve the U-shaped license plate bracket as well as the four ¼" socket button head bolts and Keps nuts.
2. Attach the top of the U-bracket to the grille guard using the two ¼" socket button head bolts and Keps nuts.
3. Attach the license plate to the bottom of the U-bracket using the two ¼" socket button head bolts and Keps nuts.
4. Check and tighten all mounting fasteners.

