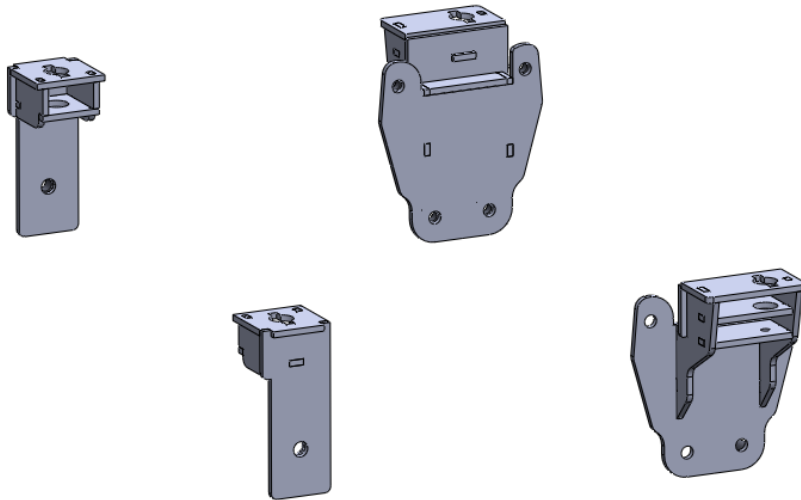




FORD

#3100 SuperRail Mounting Kit

#3126



Gross Trailer Weight (Maximum)..... 12,000 lbs.
Vertical Load Weight (Max. Pin Weight)..... 3,000 lbs.

Installation Instructions

SPECIFICATIONS

- Fits 2021 Ford F-150
- Hitch is located center of the axle

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IMPORTANT

DO NOT OPERATE HITCH UNTIL YOU READ THIS SECTION!

1. The SuperGlide hitch was designed to allow the Turntable Cam Arm Assembly to “glide” along two metal tubes, called the Way Tubes. Since its release in 1998, we have made several advancements in the design, strength, and durability of these components. The Lubrication section of your Owners Manual spans several product releases and design changes. It is imperative that you read each section and determine which SuperGlide hitch you purchased, and how to care for it. There have been three major lubrication changes to the SuperGlide hitch:

- Prior to April 2008, Way Tubes were assembled with either a conventional, quality grade grease or none at all
- In April 2008, we started coating the Way Tubes with a graphite-based spray lubricant called SlipPlate™
- November 2009 brings a new innovation from PullRite Towing Systems with the use of plastics. The Turntable Cam Arm Assembly is now equipped with Plastic Wear Plates; see Owners Manual for details (not available for #3600 models)

Depending on when your hitch was manufactured, the Way Tubes of your new SuperGlide hitch will meet one of the above criteria. Each application listed requires some level of maintenance, so it is important that you read the following instructions carefully for the correct lubrication instructions.

Failure to properly lubricate the Way Tubes, as directed in this section, will eventually cause galling between the metals of the Way Tubes and Cam Arm Assembly, which will result in hitch failure. Destruction of various hitch parts is also likely, as well as truck and/or trailer damage, and will not be covered under the Manufacturer's Warranty.

2. THE TRAILER'S KING PIN BOX MUST BE EQUIPPED WITH A CAPTURE PLATE (UNIVERSAL OR QUICK CONNECT) TO ALLOW THE HITCH TO FUNCTION (MUST BE PURCHASED SEPARATELY). NOTE: IF YOU HAVE PURCHASED A QUICK CONNECT CAPTURE PLATE AND DID NOT RECEIVE INSTRUCTIONS, THEY ARE AVAILABLE ONLINE, OR YOU CAN CONTACT PULLRITE CUSTOMER SERVICE AT (800) 443-2307.

3. Failure to modify the length of the brake away cable that activates the emergency braking of your trailer, may cause the cable to catch on protruding parts of the hitch. Resulting damage will not be covered by the manufacturers warranty.

4. There should be a minimum of 6" between the truck bed rails and the under side of the trailer for side tilt clearance. It is the customers responsibility to adjust the trailer king pin box for the appropriate amount of clearance.

NOTE: Some truck models are being manufactured with higher bed sides, making it necessary to adjust the height of your trailer's king pin box. If you don't have enough height adjustment available, PullRite produces a 3" Lift Kit that attaches to the rails of your #3100 (ask for part #3108) or #4100, #3300 and #4400 (ask for part #4408; rated only for 18K when used with model #4400) SuperGlide models.

5. Some truck beds have contoured bed sides, making the inside bed measurement narrower. Make certain the trailer's king pin box does not contact the inside edge of the bed.

6. Trucks with bed liners may need a tall Mounting Post. See "NOTE" under "Drilling the Bed" for further details.

7. It is the installers and customers responsibility to ensure there is proper clearance between the truck and trailer. There should be a minimum of 2" of clearance as the trailer passes the cab. Call PullRite technical support with trailer width, make and year of truck and distance the king pin is from leading edge of the trailer (See "Caution" section, in the SuperGlide Owners Manual, for measuring procedure) at (800) 443-2307.

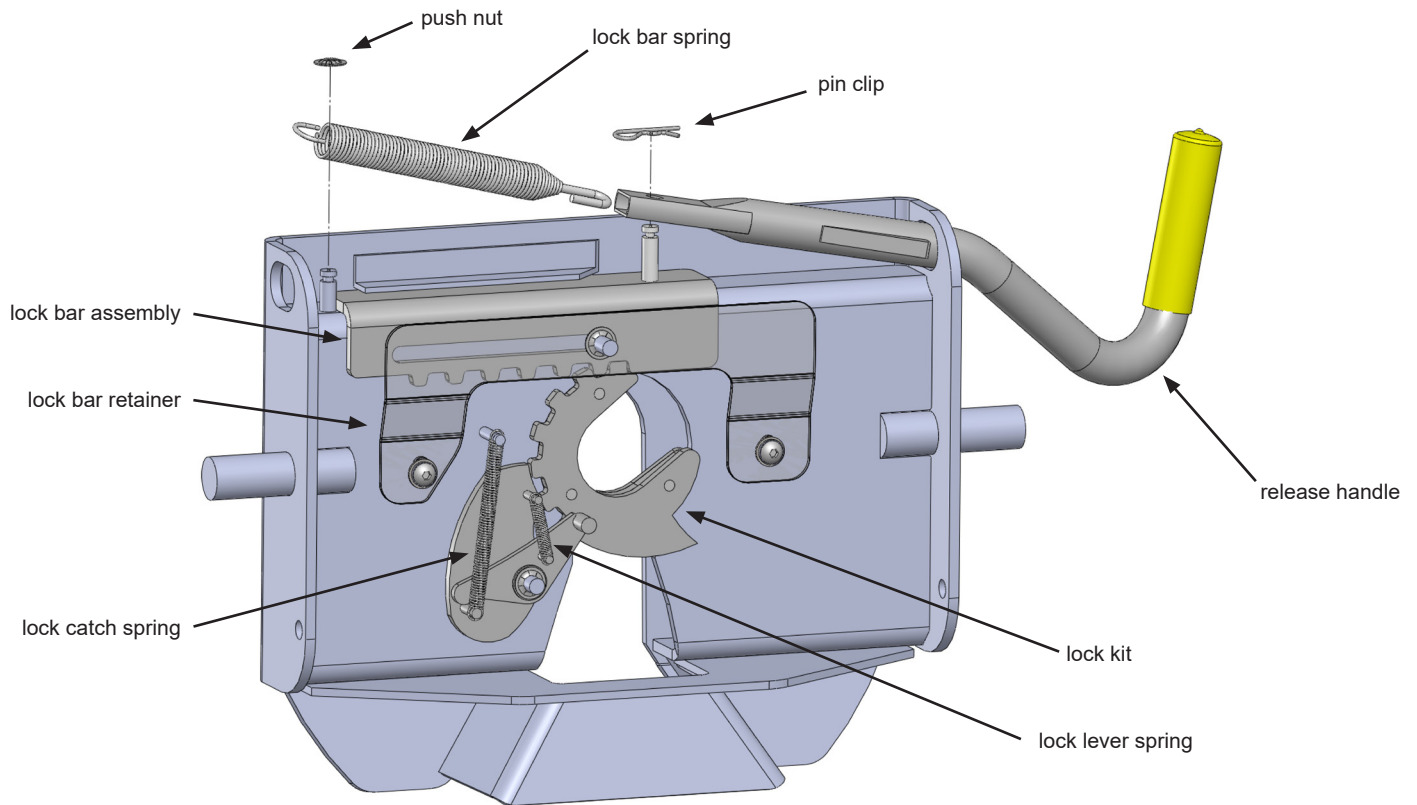
8. Read these instructions completely and follow them accurately. Should you have any questions, please call Customer Service at (800) 443-2307 prior to installation for assistance. If you did not receive your Owners Manual, visit us online at www.pullrite.com or call the number above.

9. The SuperGlide was designed for short bed pickup trucks. The hitch may function in a longer bed truck, but no mounting brackets exist to make the transfer. Some #4100 and #4400 mounting kits may transfer with modification.

#3100 SuperGlide Applications

The #3100 SuperGlide was designed for specific short bed pickup trucks. The hitch may function in a longer bed truck, but no mounting brackets exist to easily make the transfer.

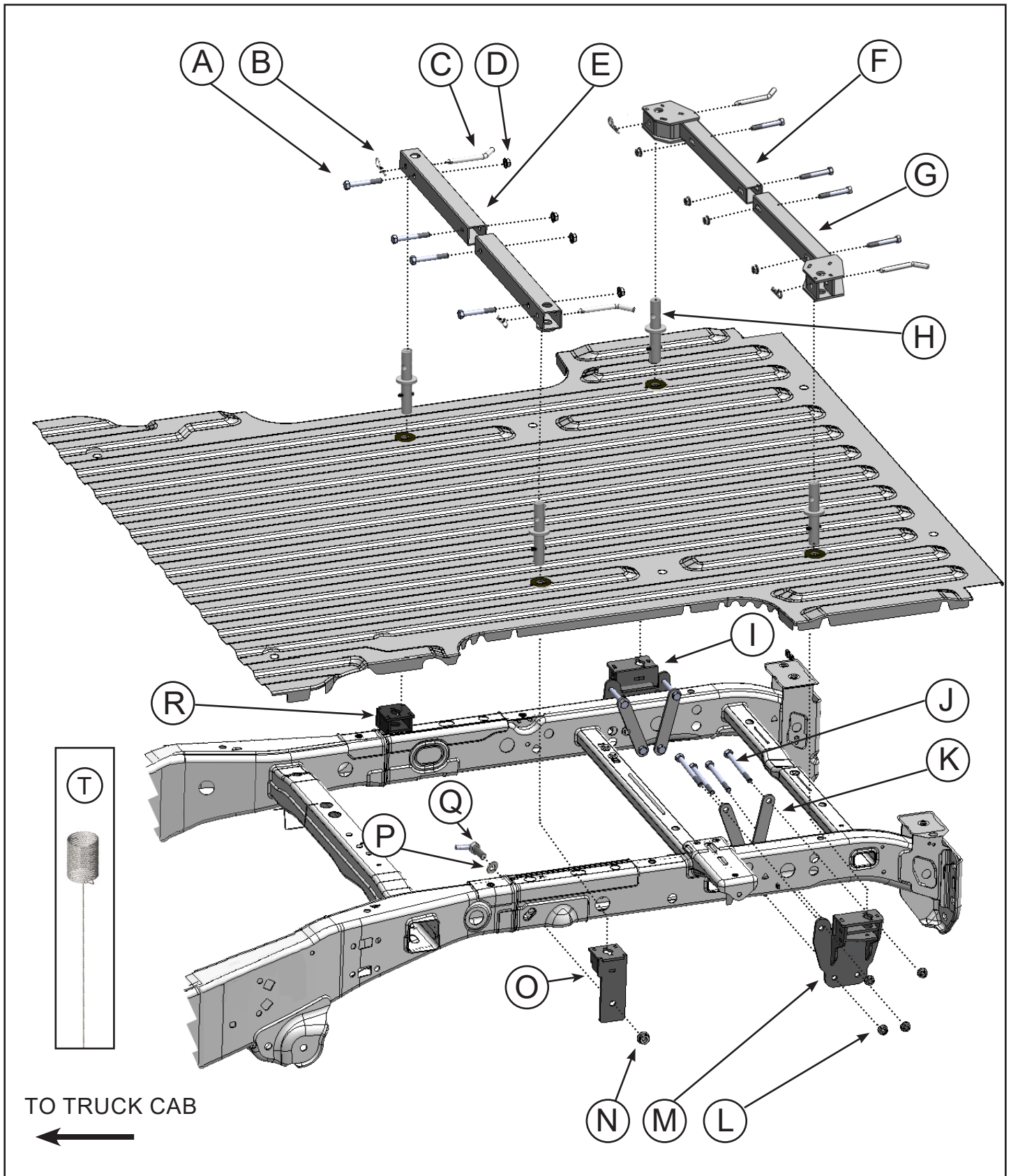
PLATE ASSEMBLY



1. Remove the Fifth Wheel Plate from the Rocker arm and place it upside-down on a smooth, clean surface.
2. Insert the Release Handle into the obround hole of the plate as seen above.
3. The Lock Bar Spring must be placed inside the handle prior to placing the handle down over the pin of the Lock Bar Assembly. "catching the hook inside the handle around the pin.
4. Push the handle and spring assembly down past the groove in the pin of the Lock Bar Assembly, and place the Pin Clip in the groove of the pin to fasten.
5. Grip the body of the spring and stretch it far enough over the opposite pin (welded to the plate) and push it down past the groove.
6. Install the Push nut to secure the Lock Bar Spring onto the welded pin.

As a Pullrite fifth wheel hitch owner, it's important for you to study and manually operate the fifth wheel plate and release handle prior to use. This understanding will reward you with easier hitching and unhitching.

MOUNTING HARDWARE PARTS IDENTIFICATION



PARTS LIST

#3126 - SUPER RAIL MOUNTING KIT

| Item | Description | Part No. | Qty. | Material |
|------|-------------------------------|----------|------|----------------------------------|
| M | REAR DRIVER SIDE BRACKET | 312603 | 1 | |
| O | FRONT DRIVER SIDE BRACKET | 312301 | 1 | |
| R | FRONT PASSENGER SIDE BRACKET | 312302 | 1 | |
| I | REAR PASSENGER SIDE BRACKET | 312604 | 1 | |
| K | BACKER PLATES | 31260309 | 4 | |
| E | FRONT BASE RAILS | 31200601 | 2 | FRONT BASE RAILS (18-7/16" LONG) |
| F | REAR PASSENGER SIDE BASE RAIL | 312309 | 1 | |
| G | REAR DRIVER SIDE BASE RAIL | 312308 | 1 | |

#312605 - MOUNTING BRACKET HARDWARE KIT

| Item | Description | Part No. | Qty. | Material |
|------|-----------------------------------|----------|------|-------------------------------|
| A | BASE RAIL BOLT | 98010187 | 8 | 1/2"-13 x 3-1/2" HHCS GRD 5 |
| D | 1/2" - 13 FLANGE NUT | 98150201 | 12 | 1/2" - 13 SERRATED FLANGE NUT |
| C | BASE RAIL PINS | 08060001 | 4 | 1/2" RD. |
| B | PIN CLIP | 98410143 | 4 | #9 PIN CLIP |
| H | STANDARD MOUNTING POST | 330701 | 4 | 3300 MOUNTING POST ASSEMBLY |
| J | REAR MOUNTING BRACKET BOLT | 98010231 | 8 | 5/8" X 4 1/2" HEX BOLT |
| N | FRONT MOUNTING BRACKET FLANGE NUT | 98150200 | 2 | 5/8"-11 SERRATED FLANGE NUT |
| P | 5/8" FLAT WASHER | 98250115 | 2 | 5/8" FLAT WASHER |
| Q | FRONT BRACKET ANTI-ROTATION BOLT | 442704 | 2 | 5/8" ANTI-ROTATION BOLT |
| T | 5/8"-11 BOLT LEADER | 98340198 | 1 | |

LAYOUT TEMPLATE

| Description | Part No. | Qty. Used | Material |
|---------------------|----------|-----------|----------------------|
| LAYOUT BED TEMPLATE | 31230000 | 1 | ITEM SOLD SEPARATELY |

TRUCK PREPARATION

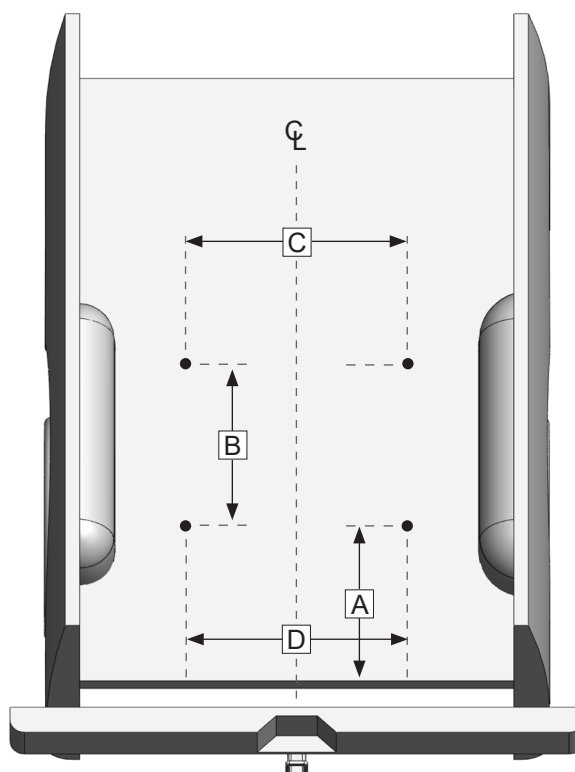
1. Check part quantities using the Parts List.
2. Block vehicle wheels. Some vehicles may require you to raise the rear of the truck in order to make it easier to drill for installing the mounting brackets on the truck frame.
3. You may wish to remove the wheels to give yourself greater working room.
4. If you have purchased a template, proceed to the "Template Method" below; otherwise, begin with the "Layout Method."

MARKING THE TRUCK BED FOR DRILLING

LAYOUT METHOD

If you purchased an installation template, please proceed "Template Method." Templates are sold separately.

1. Referencing "Truck Bed Dimension Table" below, measure and mark from the back of the bed forward, the values for "A" and "B". Do this at any point on both sides of the bed.
2. Draw a line across the bed from mark to mark.
3. Find the centerline of the bed.
4. Draw a line down the middle of the bed from front-to-rear.
5. Center the measurement of "C" across the centerline at the front-most line you made in step 2 and mark the measurement on each side (parallel to the centerline).
6. Center the measurement of "D" for the rear most line made in step 2, and again mark the measurement on each side (parallel to the centerline). This will locate the 4 drill holes.

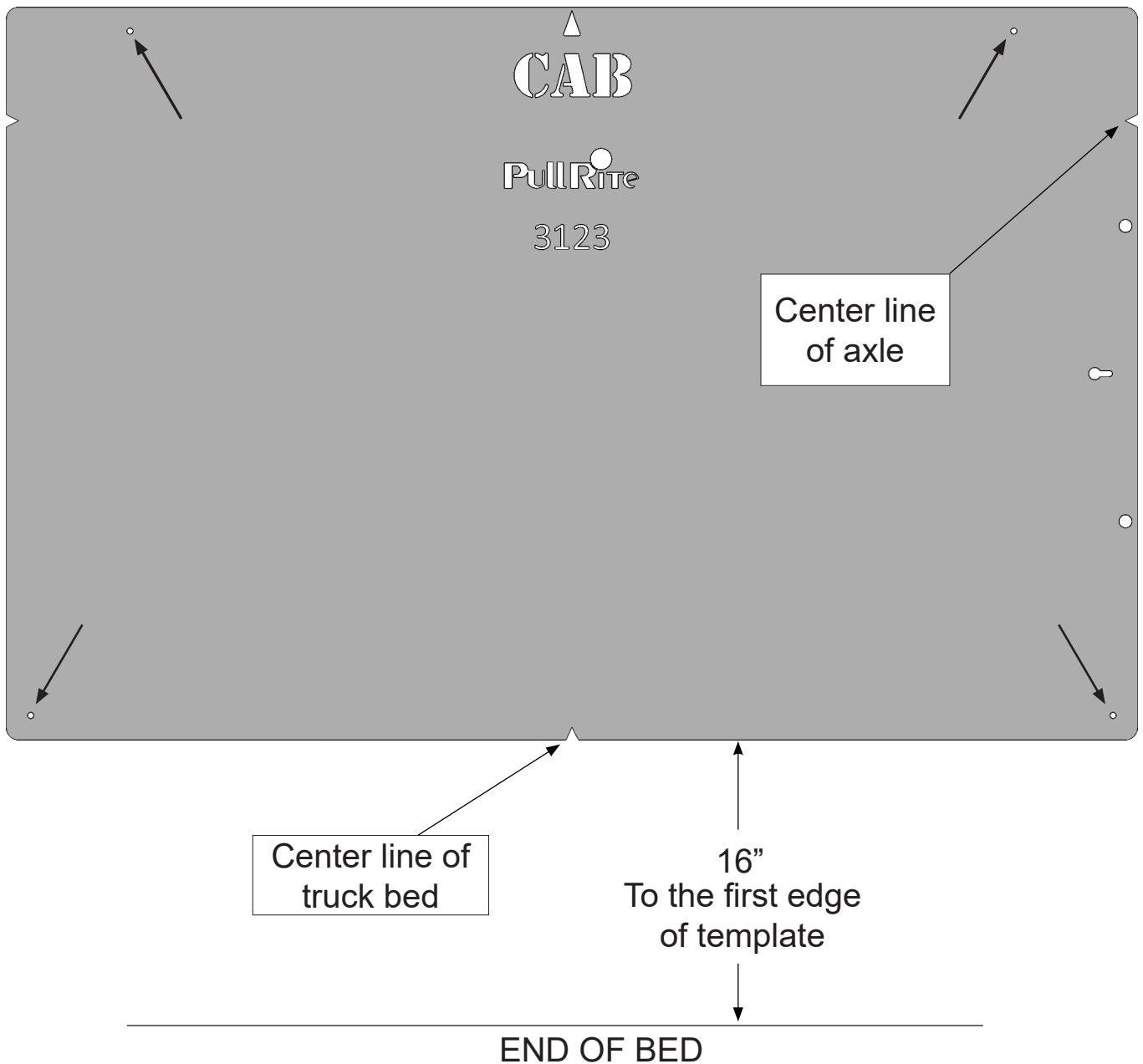


| TRUCK BED DIMENSION TABLE | | | | | |
|---------------------------|---------|-----------|---------|-----------------|----------------|
| LAYOUT METHOD | | | | TEMPLATE METHOD | |
| "A" | "B" | "C" | "D" | "X" | Template part# |
| 17" | 27-3/4" | 35-15/16" | 43-1/4" | 16" | 31230000 |

TEMPLATE METHOD

1. Lay the template in the truck bed, centering it from side-to-side, and parallel to the end of the truck bed using the dimension "X" listed in "Truck Bed Dimension Table."
2. Mark the 4 holes as indicated below, making sure the template does not move (see Installation Tip).

INSTALLATION TIP: *The template has a tendency to move when placed on the slick paint of new truck beds, and it may be helpful to place a small piece of NON-SKID matting, such as "SCOOT-GARD"™ or simply use duct tape on each corner to help keep the template from moving.*



INSTALLATION

Mounting Bracket Installation

Part 1: Bracket Placement & Bed Hole Locations

Since most truck beds are not installed square to the frame or are the same distance from the back of the cab, the installer will need to make sure the bed holes line up properly with the center of each mounting post hole.

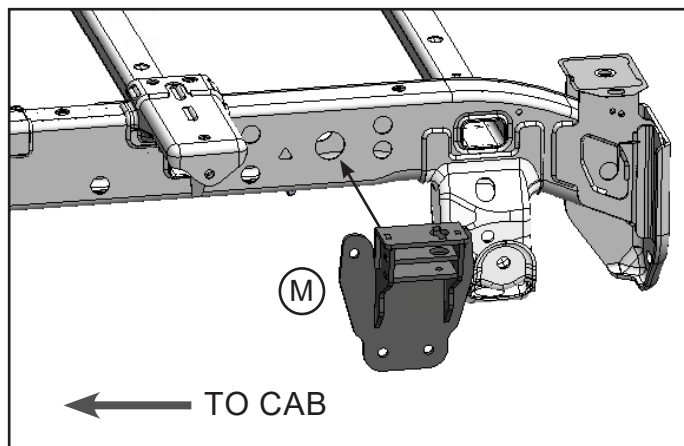
The basic steps in this section are as follows:

- *Layout the bed holes*
- *Drill the first pilot hole in the bed*
- *Check centering using the tape method*
- *Adjust the bed hole layout if necessary*
- *Drill the second pilot hole and check centering to ensure bed hole locations are square to the frame; adjust as needed*
- *Drill remaining pilot holes in the bed; check centering*

Detailed Installation Instructions

1. Use transparent tape to cover the mounting post hole on the top of each mounting bracket (when the pilot hole is drilled through the bed, the tape will be pierced by the small drill; it should be positioned in the center of the 1" mounting post hole).
2. Align the rear driver side mounting bracket {M} as in FIG.1 below.
3. Fasten the mounting bracket flush to the side of the frame (some mounting brackets may have a slight warp due to the metal characteristics during the welding process) by using a "C" clamp.
4. Drill the first 1/16" pilot hole through the truck bed over the rear hole on the driver side where you made the mark during the "Marking Bed for Drilling." The bit should come down through the 1" mounting post hole, piercing the transparent tape, aiding the centering of the bracket front-to-rear and side-to-side.
5. If the pilot hole is off center to the 1" mounting post hole, remember to adjust all the pilot hole locations accordingly.

FIG.1



INSTALLATION

NOTE: Some truck beds are not installed square on their frame by the manufacturer. To ensure your pilot holes are aligned properly, it is important that you use the measurements provided only as a starting point and make adjustments as needed. Once you have the rear driver side pilot hole centered, you will use this hole as a point of reference for all remaining pilot hole adjustments. If you are using the Template Method, simply use the properly drilled hole as a pivot point to square the remaining holes to the frame. If you are using the Layout Method, you may accomplish the same thing by using a framing square and straight edge.

6. Repeat Steps 2-5 for the rear passenger side mounting bracket {I}, checking carefully for proper centering.
7. Repeat Steps 3-5 for both front brackets {O} and {R}, making sure both brackets sit flush *on top of the frame*.

NOTE: Final bracket placement is dependent on the fixed position of the rear brackets, due to the pins that are inserted into the frame.

WARNING: Before proceeding to “Part 2, Drilling the bed...,” you must verify that each pilot hole is centered over the 1” mounting post hole on each bracket before the 2” mounting post holes are drilled through the bed.

INSTALLATION

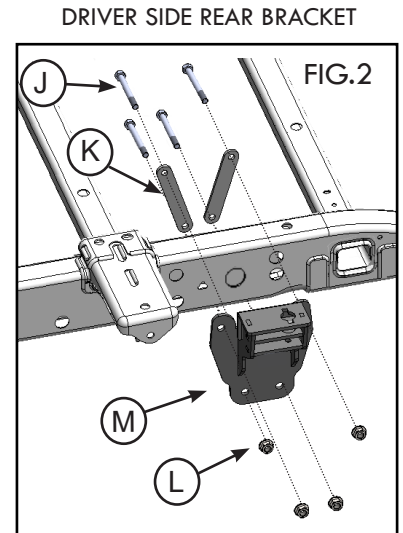
Part 2: Drilling the Bed & Bracket Installation

1. Remove the mounting brackets and use a 2" hole saw centered over the 1/16" pilot hole and cut the bed for the mounting posts.
2. De-bur inside the holes and use a paint stick to touch up the edges.

TIP: It is useful to check that the mounting posts fit easily into every bracket and likewise, the bolts for all the bolt holes to resolve any fitting issues you may encounter before the final installation is complete.

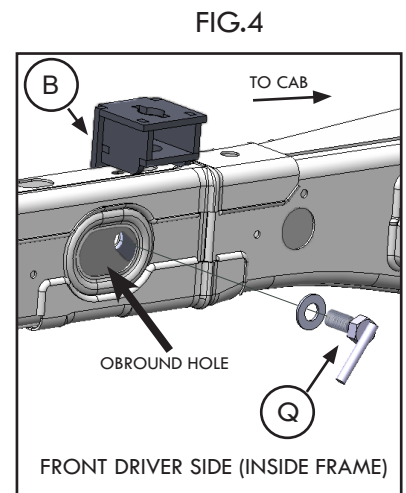
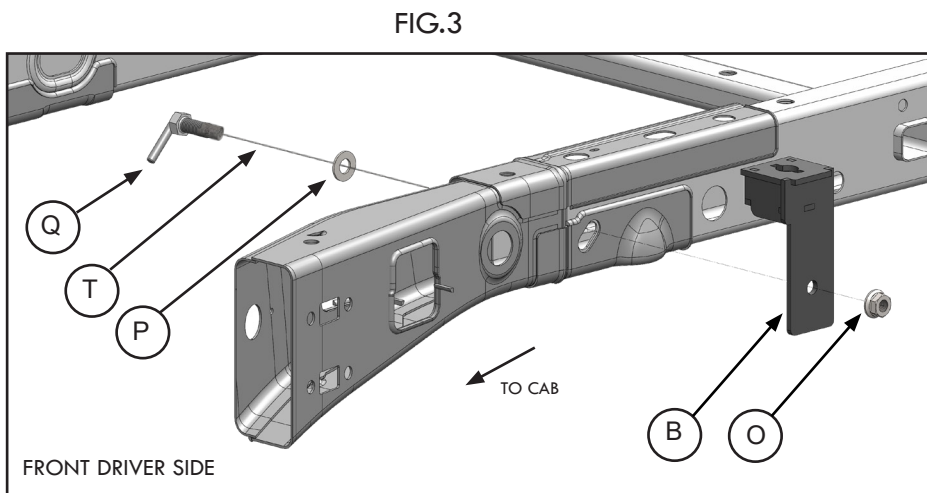
Rear Bracket Installation

1. Re-install the rear mounting brackets to the frame.
2. Fasten the rear mounting brackets flush to the side of the frame using the Backer Plates {K} and connect with the 1/2" x 4 1/2" bolts {J} and 1/2" Flange Nuts {L}. At this point, only snug tighten by hand so that the Backer Plates are flush against the inside frame (See FIG.2).



Front Bracket Installation

1. Reinstall the front mounting brackets to the frame.
2. Thread a 5/8" anti-rotation bolt {Q} onto the 5/8" bolt leader {T} as seen below (FIG.3), Pull through the pre-existing obround hole in the frame (FIG.4) and hand tighten only enough for a snug fit with the supplied 5/8" Flange Nut {N}. Repeat for the remaining front bracket (see FIG.3).
3. Install the mounting posts through the bed into the mounting bracket post holders.



INSTALLATION

4. Rotate the posts a quarter turn (FIG.5). Four posts are required for installation.

NOTE: Vehicles using plastic bed liners may require taller mounting posts (pt.# 330705) to seat properly into the post holders.

Part 3: Hitch Alignment

1. Remove the SuperGlide hitch from the shipping carton.
1. Install base rails onto the base of the hitch. Offset base rails {F} and {G} at the rear. Straight rails {E} at the front...obround hole facing downward on all rails (see FIG.6), using the supplied bolts (FIG. 7).
2. Loosely tighten the base rail bolts to the base allowing lateral movement as you place the rail assembly over the mounting posts.
3. Install the hitch pins and clips to secure the hitch assembly to the base rails. Use a drift pin to aid your hole alignment.
4. Place the hitch onto the mounting posts and center on the baserails.

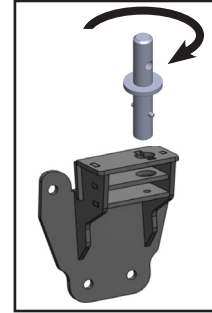


FIG.6

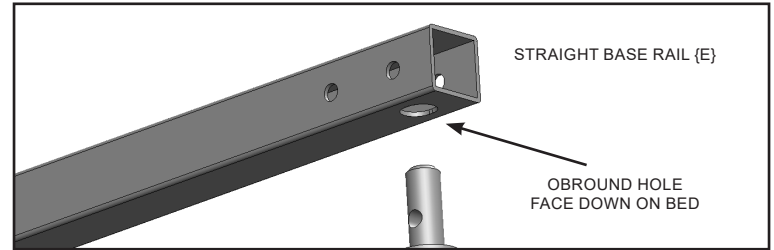
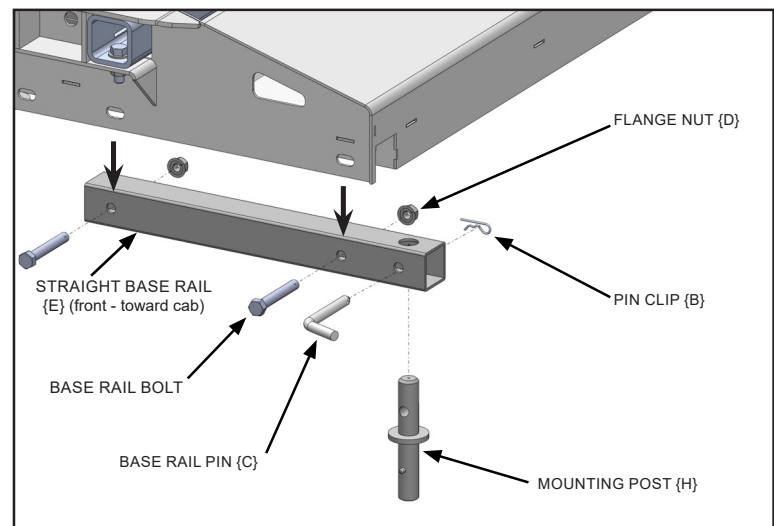


FIG.7



Part 4: Final Installation

1. Tighten mounting bracket bolts first, then base rail bolts, according to the Torque Table.

NOTE: Use a hand wrench to tighten the flange nut onto the bolts. **DO NOT** use an impact wrench, as this can easily strip the connection.

2. Remove the hitch and base rail assembly and verify that both can be removed after tightening all of the frame and base rail bolts.
3. If binding occurs and you cannot remove the hitch or base rails, you may need to loosen the bolts on the mounting brackets below. Adjust as needed and re-tighten the bolts.
4. Reinstall the mounting posts, the mounting post flanges on each post, base rails, and the SuperGlide hitch, until the assembly can be removed freely without binding.

TORQUE TABLE

| | | |
|-----------|---|--------------|
| 3/8" bolt | — | 31 ft. lbs. |
| 1/2" bolt | — | 75 ft. lbs. |
| 5/8" bolt | — | 151 ft. lbs. |
| 3/4" bolt | — | 266 ft. lbs. |



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