



# FORD SuperRail Mounting Kit #4426





# **Installation Instructions**

# **SPECIFICATIONS**

- Fits 1999-2016 Ford F250 & F350
- Hitch is located 1/2" ahead of axle
- SuperRail Kit (Bracket & Hardware) #4425

# **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 it's 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)

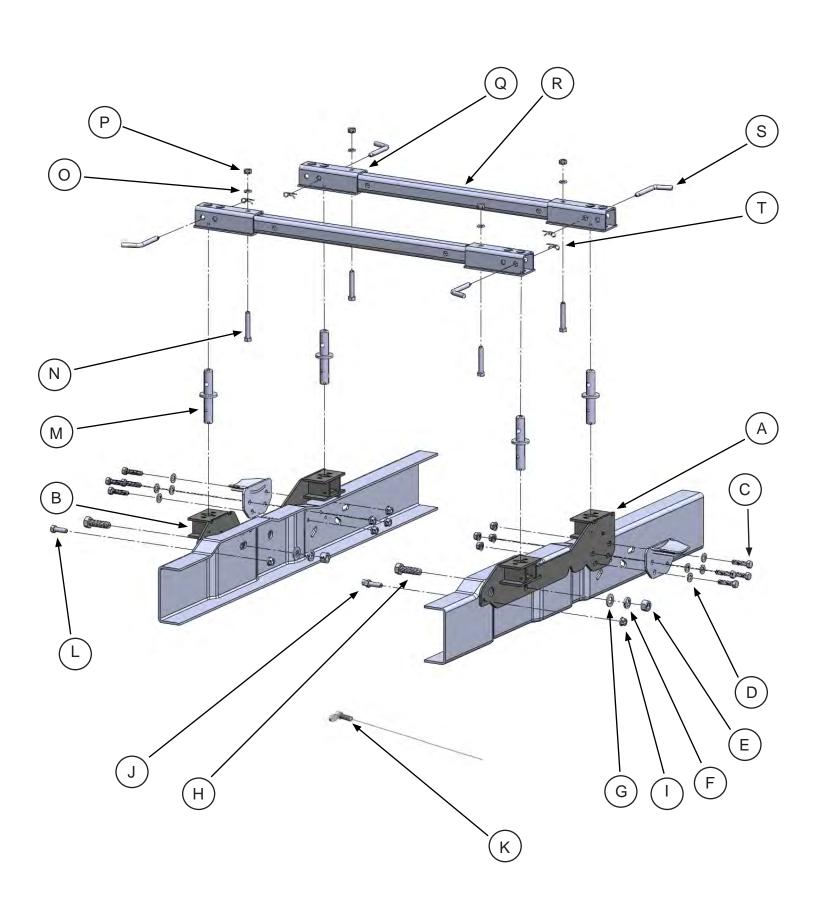
Depending on when your hitch was manufactured, the Way Tubes of your new SuperGlide hitch will meet one of the above criteria. Each application listed requires some level of maintenance, so it is important that you read the following instructions carefully for the correct lubrication instructions.

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.
- 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.
- 8. Read these instructions completely and follow them accurately.
- 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.

# MOUNTING HARDWARE PARTS IDENTIFICATION



# PARTS LIST

	#	4426		
SUPFR	RAII	MOUN	ITING	KIT

description	part no.	qty	material
MOUNTING BRACKET KIT	4425	1	(See kit contents listed below)
BASE RAIL KIT	3307	1	(See kit contents listed below)

### #4425 — MOUNTING BRACKET KIT

item description		part no.	qty.	material
Α	DRIVER SIDE BRACKET	442501	1	
В	PASSENGER SIDE BRACKET	442502	1	
	MOUNTING BRACKET HARDWARE KIT	442503	1	(See kit contents listed below)

### #442503 — MOUNTING BRACKET HARDWARE KIT

item	description	part no.	qty.	material
С	1/2" X 2" FRAME BOLT	98010175	8	1/2" - 13 X 2" HHCS GRD 5
D	1/2" FLAT WASHER	98250145	8	1/2" FLAT WASHER
E	3/4" HEX NUT	98150131	2	3/4" - 10 HEX NUT
F	3/4" LOCK WASHER	98200124	2	3/4" LOCKWASHER
G	3/4" FLAT WASHER	98250190	2	3/4" FLAT WASHER
Н	3/4" FRAME BOLT	98010128	2	3/4" - 10 X 2-1/2" HHCS GRD 5
I	1/2" FLANGE NUT	98150201	10	1/2" - 13 SERRATED FLANGE NUT
J	1/2" ANTI-ROTATION BOLT	442504	1	1/2" - 13 X 1-1/2" HHCS GRD 5 W/ WELDED WING
K	BOLT LEADER	98340197	1	1/2" - 13 BOLT LEADER
L	1/2" X 1-1/2" FRAME BOLT	98010167	1	1/2" - 13 X 1-1/2" HHCS GRD 5
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### #3307 — BASE RAIL KIT

description	part no.	qty.	material
3300 MOUNTING POST	330701	4	3300 MOUNTING POST ASSEMBLY
BASE RAIL BOLT	98010183	4	1/2" - 13 X 3" HHCS GRD 5
BASE RAIL LOCK WASHER	98200142	4	1/2" LOCK WASHER
BASE RAIL NUT	98150153	4	1/2" - 13 HEX NUT
BASE RAIL EXTENSIONS	330702	4	
BASE RAILS	33070001	2	
BASE RAIL PINS	08060001	4	1/2" ROUND
PIN CLIP	98410127	4	#3 PIN CLIP
	3300 MOUNTING POST  BASE RAIL BOLT  BASE RAIL LOCK WASHER  BASE RAIL NUT  BASE RAIL EXTENSIONS  BASE RAILS  BASE RAIL PINS	3300 MOUNTING POST       330701         BASE RAIL BOLT       98010183         BASE RAIL LOCK WASHER       98200142         BASE RAIL NUT       98150153         BASE RAIL EXTENSIONS       330702         BASE RAILS       33070001         BASE RAIL PINS       08060001	3300 MOUNTING POST       330701       4         BASE RAIL BOLT       98010183       4         BASE RAIL LOCK WASHER       98200142       4         BASE RAIL NUT       98150153       4         BASE RAIL EXTENSIONS       330702       4         BASE RAILS       33070001       2         BASE RAIL PINS       08060001       4

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description	part no.	qty.	material	
LAYOUT BED TEMPLATE	33130000	1	ITEM SOLD SEPARATELY	

### TRUCK PREPARATION

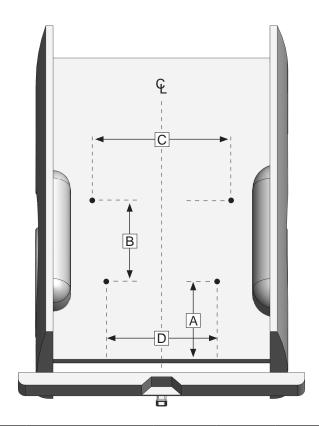
- 1. Check part quantities using the Parts List on Page 5.
- 2. Block vehicle wheels. Some vehicles may require you to raise the rear of the truck in order to make it easier to drill for installing the mounting brackets on the truck frame.
- 3. You may wish to remove the wheels to give yourself greater working room.
- 4. Carefully remove the plastic inner wheel well guards on both sides of the vehicle (not applicable to some models).
- 5. 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.

- 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.
- Draw a line across the bed from mark to mark.
- 3. Find the centerline of the bed.
- 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).
- 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.



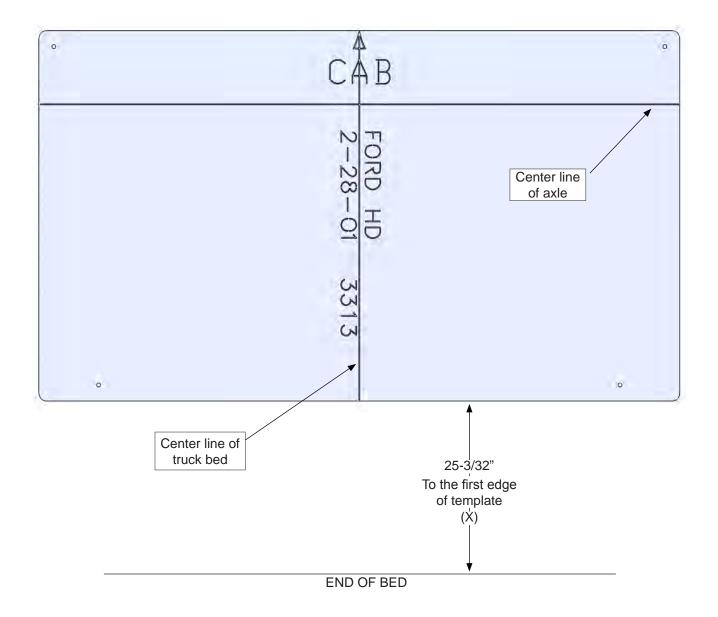
TRUCK BED DIMENSION TABLE						
LAYOUT METHOD TEMPLATE METHOD						
"A"	"B"	"C"	"D"	"X"	Template part#	
26-3/32"	21-3/16"	41"	35"	25-3/32"	33130000	

### **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, while making sure the template does not move.

NOTE: The TEMPLATE should be orientated as shown in the drawing to the left. Notice that the spacing of the forward and rearward facing holes may be different, and can be used to determine the correct orientation of the template. Item "C" in the Truck Bed Dimension Table shows the forward facing dimension, and Item "D", the rearward facing dimension. Note also, the information etched into the template — the direction of the cab, the template number and the revision date.

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**

### PART 1 — BRACKET PLACEMENT & BED HOLE LOCATIONS

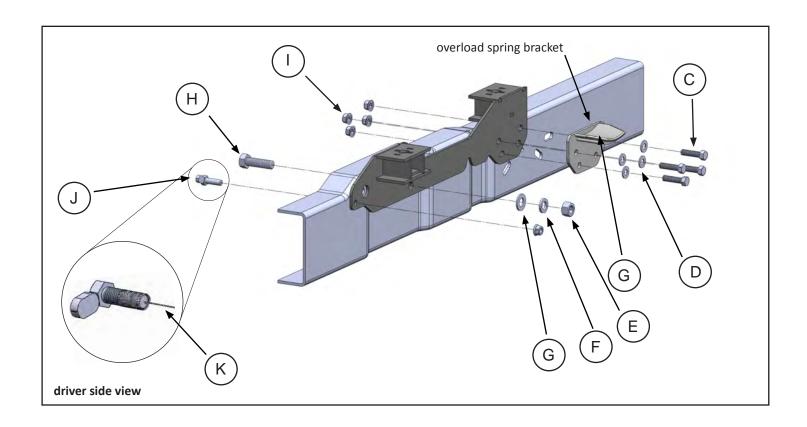
Since most truck beds are not installed square to the frame or are the same distance from the back of the cab, the installer will need to make sure the bed holes line up properly with the center of each mounting post hole.

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
- Drill truck frame, if necessary

### **Detailed Installation Instructions**

- 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 corner hole {C} of the driver side mounting bracket {A}to the existing hole located on the frame as indicated in the illustration below, and rest the bottom of the inward facing mounting post holder flush against the top of the frame.
- 3. Temporarily install the 3/4" x 2-1/2" bolt {E} and loosely tighten. Do not overtighten—you will be removing the bracket in later steps.
- 4. Fasten the mounting bracket flush to the frame (some mounting brackets may have a slight warp due to the metal characteristics during the welding process) at {C} by using a "C" clamp. Do not overtighten.



### **INSTALLATION**

NOTE: The holes at {C} are too small for the 1/2" bolts provided and must be drilled out to a 1/2" diameter. Refer to the illustration below.

If your truck is equipped with an overload spring bracket, the original fasteners you retained during "Truck Preparation" should be used.

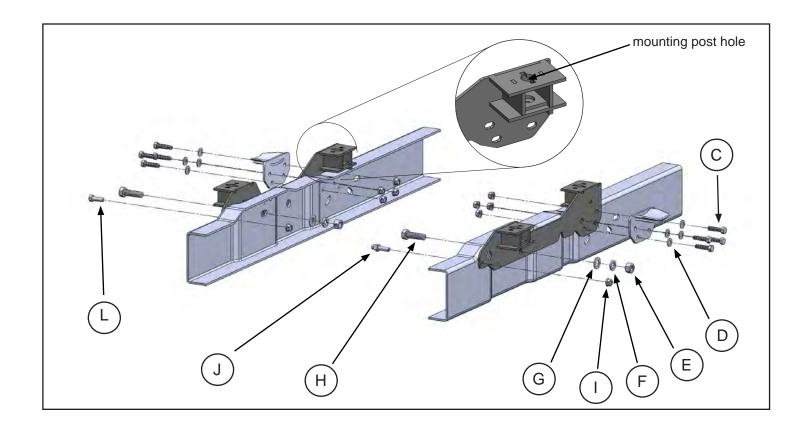
WARNING: Prior to drilling any holes, be sure to check the inside of the frame to guard against drilling into the fuel tank, wiring, brake lines, fuel module, or other obstructions.

- 5. 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.
- 6. If the pilot hole is off center to the 1" mounting post hole, remember to adjust all the pilot hole locations accordingly.

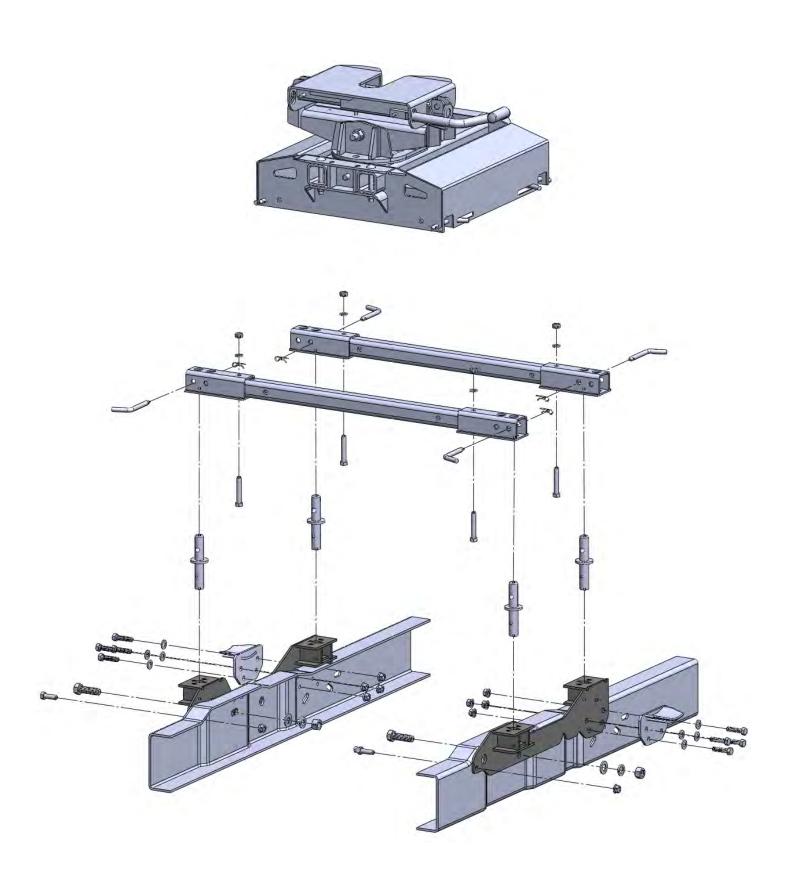
NOTE: Some truck beds are not installed square on their frame by the manufacturer. To ensure your pilot holes are aligned properly, it is important that you use the measurements provided only as a starting point and make adjustments as needed. Once you have the rear driver side pilot hole centered, you 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.

- 7. Repeat Steps 2-6 for the passenger side mounting bracket, checking carefully for proper centering.
- 8. Using the pre-punched bracket holes as a guide, position the brackets over the existing holes in the truck 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 1-3/4" mounting post holes are drilled through the bed.



# HITCH ASSEMBLY — EXPLODED VIEW



### PART 2: DRILLING THE BED & BRACKET INSTALLATION

- 1. After removing the mounting brackets, use a 1-3/4" 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.
- 3. Fasten the mounting bracket flush to the frame by using either a clamp or by inserting a fastener through the mounting bracket in the existing frame hole(s).
- 4. Install the mounting posts through the bed into the mounting bracket post holders. Rotate the posts a quarter turn (see the illustration to the right). Four posts are required for installation.

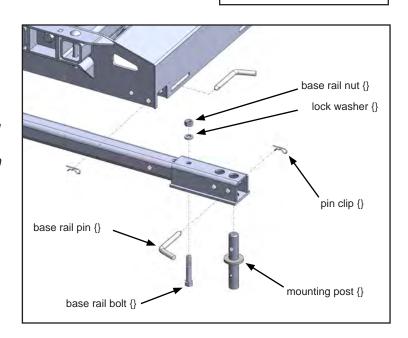
NOTE: Vehicles using plastic bed liners may require taller mounting posts (part# 330705) to seat properly into the post holders.

### PART 3: HITCH ALIGNMENT

- Remove the SuperGlide hitch from the shipping carton.
- Secure the base rail extensions to the base rails, leaving the base rail extensions loose to allow lateral movement as you place the rail assembly over the mounting posts (see the illustration to the right).

NOTE: The base rail extensions should be installed with the obround hole (found on the bottom plate of the base rail extension) facing down toward the truck bed, and the round hole facing up.

- 3. Center the base rails between the mounting posts. Finger tighten the base rail mounting bolts.
- 4. Set the SuperGlide hitch on the base rails and align the hitch assembly with the mounting holes.
- 5. Install the hitch pins from the inside. Then install the pin clips, to secure the hitch assembly to the base rails. Use a drift pin to aid your hole alignment.



### PART 4: FINAL INSTALLATION PROCEDURES

- 1. Reinstall the overload bracket (if applicable) at {C}, as seen in the illustrations on pages 8 and 9, "sandwiching" the mounting bracket between the truck frame and overload bracket.
- 2. Reinstall all remaining bolts and corresponding hardware.

NOTE: Due to limited space in the frame, an anti-rotation bolt {J} must be installed using a bolt leader. Thread the bolt onto the bolt leader, feed it through the appropriate hole in the frame and through the bracket, making sure you install the bolt in the correct orientation (threads facing outward. See illustration on page 8). The welded wing on the bolt will prevent it from turning inside the frame when you tighten the serrated flange nut {F}.

- 3. Tighten all bolts, including the base rail bolts, according to the Torque Table below.
- 4. Remove the hitch and base rail assembly and verify that the mounting posts can be inserted and turned freely without binding. You may need to loosen the bolts on the mounting brackets below if binding occurs. Adjust as needed and retighten the bolts.
- 5. Reinstall the mounting posts, base rails and the SuperGlide hitch assembly 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.