



Super 5th Towing Solutions

INSTALLATION INSTRUCTIONS

SPECIFICATIONS:

16,000 Super 5th, (Part #1200)
 Gross Trailer Weight (Maximum).....16,000 lbs.
 Vertical Load Weight (Max. Pin Weight).....4,000 lbs.

20,500 Super 5th, (Part #0800)
 Gross Trailer Weight (Maximum).....20,500 lbs.
 Vertical Load Weight (Max. Pin Weight).....5,125 lbs.

FOR USE WITH

UNIVERSAL MOUNTING Kit (Part # 0820)

Introduction

The following steps provide several pages of general and vehicle specific instruction for the installation of the **16,000# (part number 1200)** and **20,500# (part number 0800) SUPER 5TH** towing system. Should you have any questions, please call the factory at (800) 443-2307 for installation assistance.

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WOULD YOU LIKE TO INSTALL THIS HITCH IN HALF THE TIME?

ASK YOUR SUPER 5TH DISTRIBUTOR ABOUT “SUPER BRACKETS” (more info. on last page)

OR

WOULD YOU LIKE A HITCH THAT LEAVES THE BED CLEAN WHEN REMOVED?

ASK YOUR SUPER 5TH DISTRIBUTOR ABOUT “SUPER RAIL” MOUNTING KITS (more info. on last page)

20,500 PARTS LIST

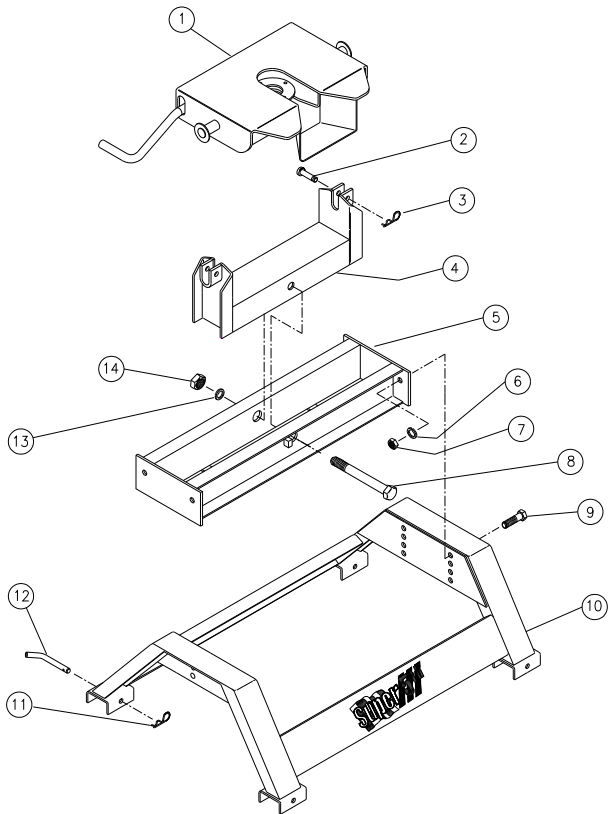


Figure 1

Ref.	Part #	Part Name
1	3601	Plate
2	98410111	Clevis Pin
3	98410127	Clevis Pin Clip
4	0802	Rocker Arm
5	0803	Crossmember
6	98200142	1/2" Lock Washer
7	98150153	1/2"-13 Hex Nut
8	98010147	Rocker Arm Pivot Bolt
9	98010167	1/2"-13 x 1 1/2" HHCS
10	0804	Base
11	98410127	Clevis Pin Clip
12	08060001	Base Rail Hinge Pin
13	98200124	3/4" Split Lock Washer
14	98150131	3/4"-10 Hex Nut

Table 1

16,000 PARTS LIST

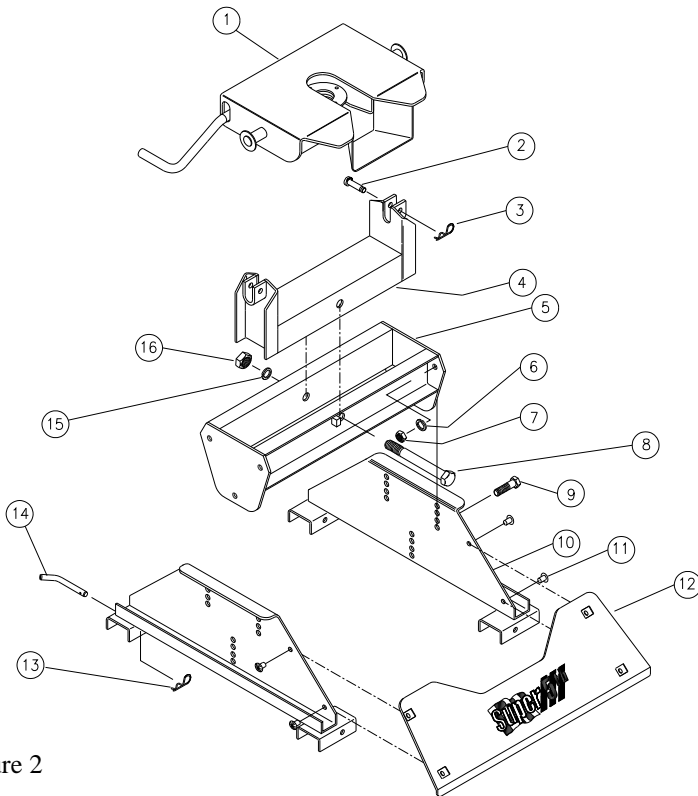


Figure 2

Ref.	Part #	Part Name
1	3601	Plate
2	98410111	Clevis Pin
3	98410127	Clevis Pin Clip
4	0802	Rocker Arm
5	1202	Crossmember
6	98200142	1/2" Lock Washer
7	98150153	1/2"-13 Hex Nut
8	98010147	Rocker Arm Pivot Bolt
9	98010167	1/2"-13 x 1 1/2" HHCS
10	1203	Base Sides (set)
11	98410560	Plastic Barbed Fastener
12	120302	Cover Assembly
13	98410127	Clevis Pin Clip
14	08060001	Base Rail Hinge Pin
15	98200124	3/4" Split Lock Washer
16	98150131	3/4"-10 Hex Nut

Table 2

Parts List For 0820 Super 5th Universal Mounting Kit

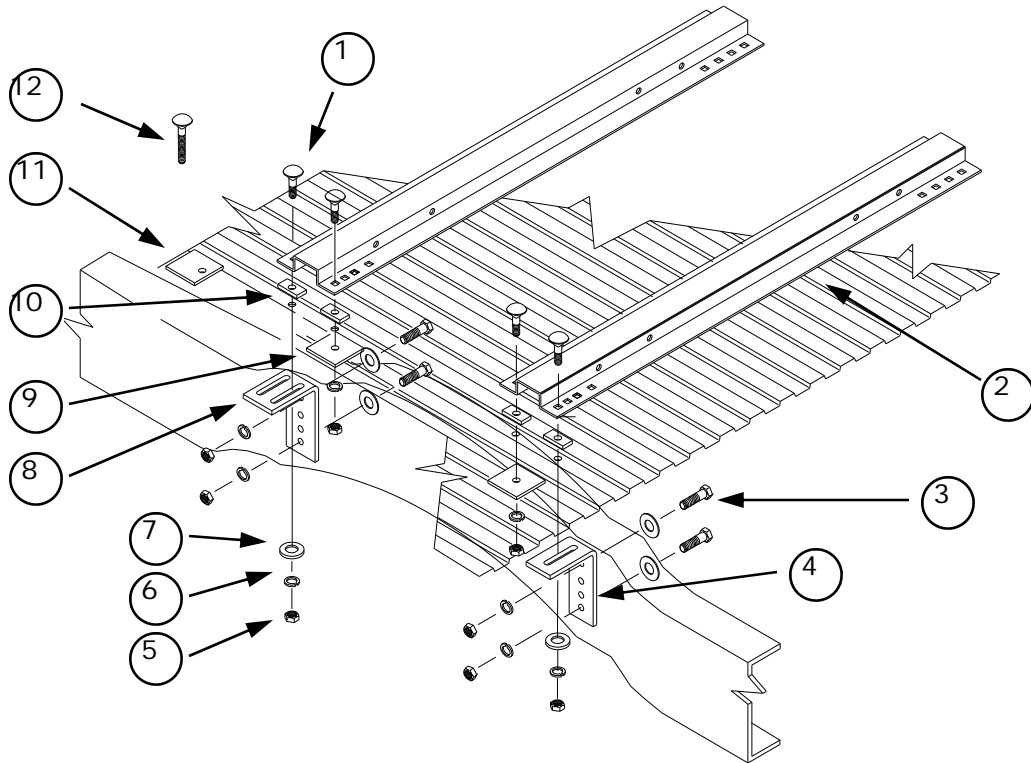


Figure 3

Ref.	Description	Part #	Qty.
1)	1/2" x 2" Carriage Bolts	98050110	8
2)	Base Rails	08050001	2
3)	1/2" x 1-1/2" HHCS Frame Bolts	98010175	8
4)	Single Slot UMK Mounting Brkt	08070001	2
5)	1/2" - 13 Hex Nuts	98150153	16
6)	1/2" Lock Washer	98200142	16
7)	1/2" Flat Washer	98250145	12
8)	Double Slot UMK Mounting Brkt	08070002	2
9)	Center Hole Back-up Plate	05070302	4
10)	5/16" x 1" Bottom Bed Shim (sq. hole)	08070003	8
11)	Offset Hole Back-up Plate	05070303	2
12)	1/2" x 5" Carriage Bolts	98050128	2
	Hardware Kit (Fasteners, Spacers & Backing Plates)	080702	
	Installation Kit (Brkt., Rails & Hardware)	0820	

Tools Needed For Installation

- | | | |
|---------------------|----------------|-------------------------------|
| 1/2" Drill Motor | 3/4" Socket | 1/2" Drive Impact Gun or 1/2" |
| 1/16" Drill Bit | 1 1/8" Socket | Drive Ratchet Wrench 3/4" |
| 1/2" Drill Bit | Torque Wrench | Combination Wrench |
| 3/4" Step Drill Bit | Measuring Tape | Felt Tipped Marker |
| | | Hammer |

Super 5th Preparation

Before the Super 5th is used, the following preparations should be followed:

1. Remove the Pivot Bolt from the Rocker Arm/Crossmember assembly. Lubricate with a quality grade grease. Reinstall tightening until the Lock Washer is flattened.
2. The Plate and it's moving parts should be lubricated with a light lubricant such as WD-40, 3-in-1 oil, or Silicone Spray Lubricant, before each trip or as needed. Be sure the Plate is free of dirt and old oil buildup.

Vehicle Preparation

After blocking the front wheels, place jack stands under the frame so that the rear of the truck is high enough to allow the rear wheels to drop. This will give easy access to the frame area in the rear wheel well.

Remove the spare tire if necessary to allow easy access to the underside of the truck bed.

Hitch Assembly

Hitch Assembly for 20,500 Super 5th: (See figure 1 and table 1 on page 2)

If the hitch type to be installed is a **20,500 (Part #0800)**, there is no assembly required except to attach the **Base Rails** (2) to the base feet of the hitch **Base** (10) using the four **1/2" Base Rail Pins** (12) and four **#3 Pin Clips** (11).

This hitch has four height settings and should be adjusted according to the directions in the Operator's Instructions found in the same box as the hitch. Be sure to torque all four 1/2" x 1 1/2" Bolts to 75 foot pounds.

Hitch Assembly for 16,000 Super 5th: (See figure 2 and table 2 on page 2).

If the hitch type to be installed is a **16,000 (Part #1200)**, it will be necessary to assemble the hitch first; follow these steps:

1. Arrange the **Base Rails** (2) parallel to each other and attach the **Base Sides** (10) using the four **1/2" Base Rail Pins** (14) and four **#3 Pin Clips** (13).
2. Remove the 3/4" x 7" **Rocker Arm Pivot Bolt** (8) from the **Rocker Arm** (4) and **Crossmember** (5). The **Rocker Arm** (4) is shipped upside down in the **Crossmember** (5) for better packaging and will need to be removed and reinstalled right side up in the **Crossmember** (5). Tighten the 3/4" x 7" **Rocker Arm Pivot Bolt** (8) only enough to flatten the **3/4" Lock Washer** (15) or enough so that the Rocker Arm will rotate stiffly. Lubricate the **Rocker Arm Pivot Bolt** (8) with heavy grease before installing.
3. Fasten the **Crossmember** (5) and **Base Sides** (10) together using six each of the **1/2"-13 x 1 1/2" Bolts** (9), **1/2" Lock Washers** (6) and **1/2"-13 Hex Nuts** (7). This hitch has four height settings and should be adjusted according to the directions in the Operator's Instructions found in the same box as the hitch. Attach the **Base Cover Assembly** (12) to the **Base Sides** (10) using the four **Plastic Barbed Fasteners** (11) provided. The tabs welded to the **Base Cover Assembly** (12) fit on the inside of the **Base Sides** (10). Tighten bolts to 75 foot pounds.

16,000 Super 5th Hitch Assembly (continued)

- 4) Attach the **Release Handle** (see figure 4, this page) and **Main Spring** to the **Lock Bar** and secure with the **Push Nuts** as shown.
- 5) Fasten the **Fifth Wheel Plate** (1) in the **Rocker Arm** (4) using two each of the **1/2" Clevis Pins** (2) and **#3 Pin Clips** (3).

Remove the Plate (1) from the Rocker Arm and replace it upside down. Study **(Figure 5 & 6)** and manually operate the Release Handle to better understand the locking action. This will allow you to better understand the hitching procedure and prevent accidentally dropping your trailer due to incorrect hitching.

- 1) When the **Plate** (1) is in the upright position, gravity keeps the **Release Handle** in the lower position and the **Handle Catch** is then located on the inside of the outer casing of the **Plate** (1). See the third drawing in (Figure 6).
- 2) To open the **Lock Jaw Assembly**, lift the **Release Handle** and pull it toward you until the Lock Catch engages the **Lock Jaw Assembly** (Figure 6).
- 3) As the **King Pin** moves into the **Plate** (1), it will contact the **Lock Lever** forcing the **Lock Catch** to disengage the **Lock Jaw Assembly**, allowing the **Main Spring** to pull the **Lock Bar** to the closed position. The gear teeth of the **Lock Bar** engages the gear teeth of the **Lock Jaw Assembly** and causes it to close behind the **King Pin**.
- 4) When the **Lock Jaw Assembly** is completely closed, the **Release Handle** will also be fully retracted into the **Plate** (1) and the **Handle Catch** will fall down behind the outer casing of the **Plate** (1). In this position the **King Pin** is locked in the **5th Wheel Plate** ready for travel.
- 5) To discourage theft or pranksters, place a padlock through the obround hole above the Release Handle, so it can not be raised enough to clear the Handle Catch.

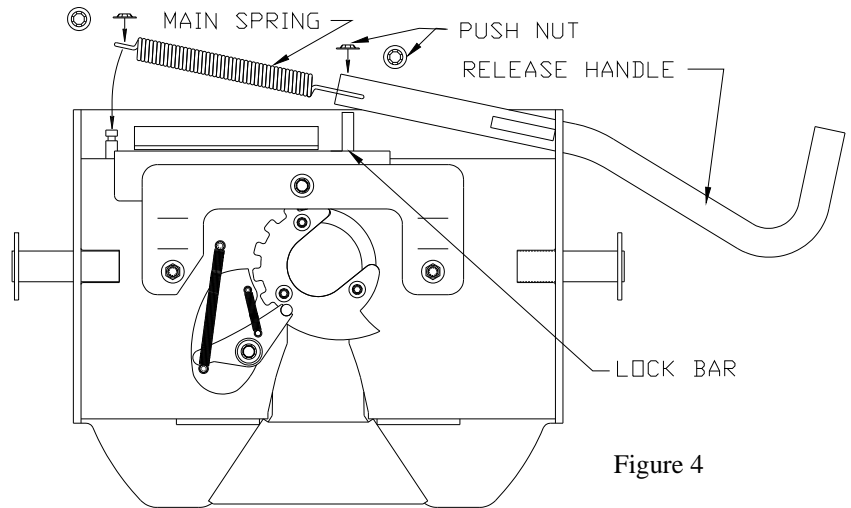


Figure 4

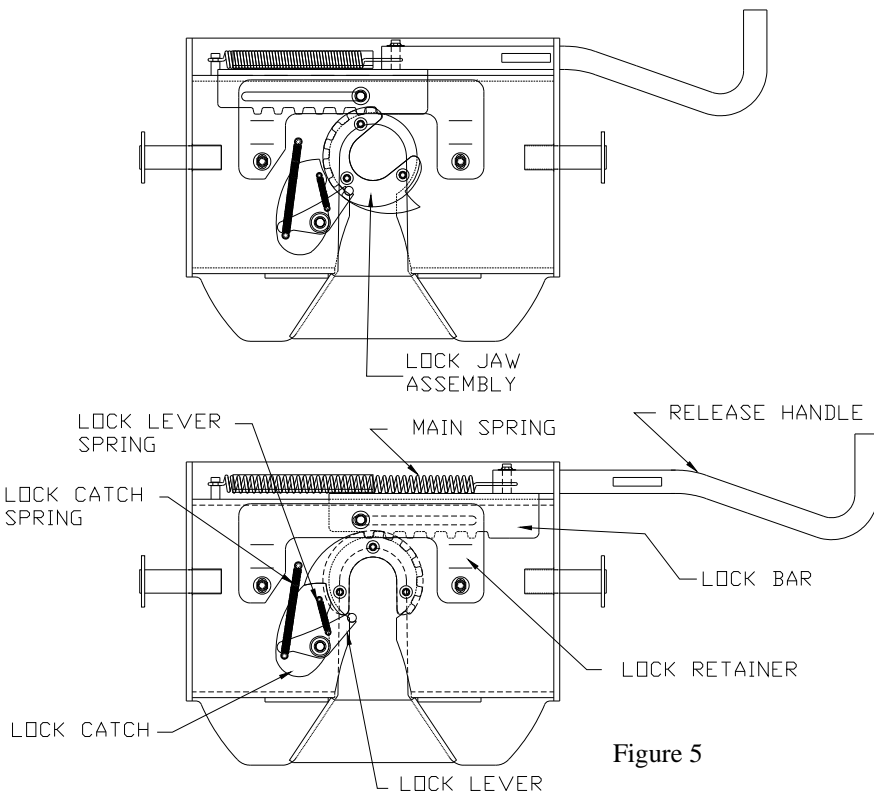


Figure 5

CAUTION: DO NOT ATTEMPT TO TRIP THE LOCK JAW ASSEMBLY WITH YOUR HAND, USE A PROBE TO SIMULATE THE KING PIN ACTION.

For a complete understanding of the use of this hitch consult the operator's instructions.

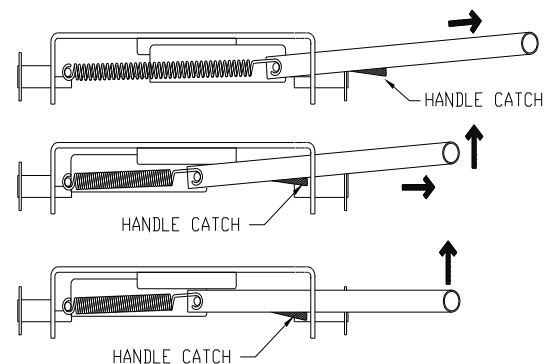


Figure 6

General Installation Instructions

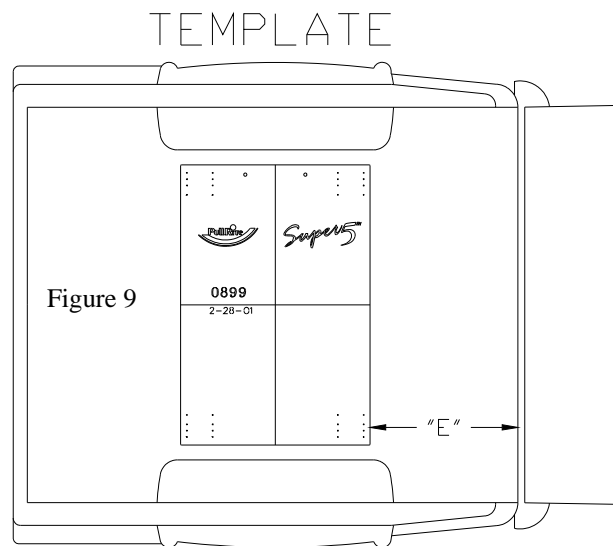
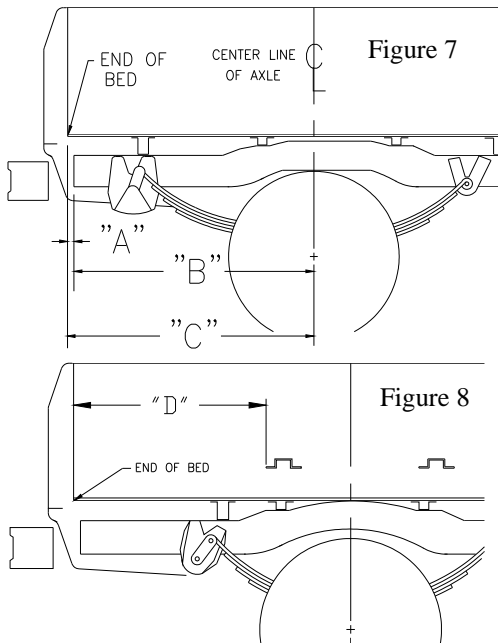


Table 4

YEAR	MAKE & MODEL	"B" 8' BED	"B" 6' BED	"C" 8' BED	"C" 6' BED	"D" 8' BED	"D" 6' BED	"E" 8' BED	"E" 6' BED	DISTANCE AHEAD OF AXLE 8' BED	DISTANCE AHEAD OF AXLE 6' BED
PRE 1998	FORD SUPER DUTY F150 – F350	40 1/2" 40.4"	40 1/2" 40.4"	43 1/8" 43.125"	43 1/8" 43.125"	32" 31.98"	28 5/16" 28.31"	31 3/4" 31.75"	28 1/16" 28.08"	3.67"	0"
1999 – 2008	FORD SUPER DUTY F250 – F350	40 1/2" 40.4"	40 1/2" 40.4"	43 1/8" 43.125"	43 1/8" 43.125"	31 7/16" 31.43"	29 9/16" 29.55"	31 3/16" 31.19"	29 5/16" 29.31"	3.09"	1.2"
1997 – 2003	FORD LIGHT DUTY F150 – F250	40 15/16" 40.9"	40 15/16" 40.9"	40 15/16" 40.9"	40 15/16" 40.9"	26 9/16" 26.54"	26 9/16" 26.54"	26 5/16" 26.3"	26 5/16" 26.3"	0.45"	0.45"
1983 – 1993	DODGE RAM 1500 – 3500	42 1/4" 42.25"									
1994 – 2002	DODGE RAM 1500 – 3500 (Excludes '02 1500)	44 1/8" 44.1"	40" 40.0"	44 5/8" 44.625"	40 1/2" 40.5"	31 7/8" 31.88"	25 9/16" 25.54"	31 5/8" 31.64"	25 3/8" 25.3"	2.59"	0.35"
2002	DODGE RAM 1500			42 1/4" 42.2"	40 3/8" 40.3"	30 5/8" 30.6"	25 19/32" 25.59"	30 3/8" 30.36"	25 5/16" 25.35"	3.2"	0.1"
1988 – 1998	CHEVROLET / GMC 1500 – 3500 (TAPERED FRAME)	41 3/4" 41.73"	36 15/16" 36.94"	41 3/4" 41.73"	39" 38.98"	29 1/4" 29.2"	24 5/32" 24.16"	28 31/32" 28.96"	23 15/16" 23.93"	2.28"	0"
1999 – 2000	CHEVROLET / GMC 2500 – 3500 (TAPERED FRAME)	41 3/4" 41.73"	36 15/16" 36.94"	41 3/4" 41.73"	39" 38.98"	29 1/4" 29.2"	24 5/32" 24.16"	28 31/32" 28.96"	23 15/16" 23.93"	2.28"	0"
1999 – 2000	CHEVROLET / GMC 1500 – 2500 LD (OFFSET FRAME)	42 5/16" 42.31"	37 7/16" 37.41"	43 7/16" 43.41"	38 9/16" 38.56"	30 31/32" 30.96"	23 3/4" 23.75"	30 3/4" 30.73"	23 1/2" 23.51"	2.37"	0"
2001 – 2008	CHEVROLET / GMC 1500 – 3500 LD & HD (OFFSET FRAME)	42 5/16" 42.31"	37 7/16" 37.41"	43 7/16" 43.41"	38 9/16" 38.56"	30 31/32" 30.96"	23 3/4" 23.75"	30 3/4" 30.73"	23 1/2" 23.51"	2.37"	0"

General Installation Instructions Cont.

The following installation instructions will provide a general overview of how to position and mount the 5th wheel in the bed of the truck. Also included will be vehicle specific instructions for positioning the 5th wheel, **however it is the responsibility of the installer to confirm the validity of these specific locations.**

1. Check the part quantities in the kit, using the parts list on pages 2 and 3.
2. It may be helpful to raise the rear of the truck high enough to allow jack stands to be placed under the rear spring hanger brackets at the rear of the frame. This should be high enough to allow the rear tires to just clear the ground. Block the front tires before lifting the truck so it cannot roll forward or back.
3. Study Figure 7 and Table 4 on page 6 to find the location of the center of the axle measured from the end of the frame. Locate the correct vehicle year and model, then find the dimension "B" for the appropriate bed length of that vehicle. Place a mark on the frame using this dimension.
4. Once the center of the axle is known it is necessary to determine where the Base Rail Mounting Bolts, coming through the bed, will position the Mounting Brackets on the frame of the vehicle relative to any obstacles on the inside and outside of the frame. Figure 10 provides the dimensions from the center of the hitch to each hole location in the Base Rails. Instead of marking and remarking the frame, lay these measurements out on a piece of stiff material that can easily be held up against the frame. Your layout template should include a mark for the center of the hitch.
5. Hold the template against the frame with the "center of the hitch" mark lined up with the "center of the axle" mark on the frame (step 3). Examine each "hole location" mark on your template, that is where the Base Rail Mounting Bolts will come down through the bed if you choose to locate your hitch even with the center of the axle. Do these bed hole locations allow room for the Mounting Brackets, clear of any obstructions? If you think so, hold one of the Mounting Brackets up against the frame so that the slot in the horizontal flange will line up with the selected bed hole location. *You must mount one bracket under each Base Rail on each side of the vehicle. They can be attached to either hole location but must rest against the bottom of the bed, not under a bed cross sill.* Will you be able to drill at least two of the pre-punched hole locations through the frame with out obstruction? Will there be enough room for the fasteners? If the answer is yes to all of these questions then you have found at least one location that the hitch may be installed. If the answer is no to any of these questions, or if you would like the hitch location farther forward in the bed, move your template forward along the frame until you have found a location that satisfies each of these questions and your preference of location.
6. Note that two of the frame brackets are double slotted on the horizontal flange, these will allow their placement on the frame farther away from obstacles. Also note that on some vehicles it may be necessary to position the hitch where one or more of the Base Rail Mounting Bolts will come through the bed cross sills. Extra long bolts are provided for this purpose.
7. Once you have selected the hitch location place a mark on the frame where the center of the hitch will be. Add the distance between the mark representing the center of the axle and the mark representing the center of the hitch to the "B" dimension from page 6.
8. Add to the total in step 7 the distance between the end of the frame and the back edge of the bed. This can be difficult to obtain so you may wish to consult Table 4 on page 6 and add the distance between axle and hitch centers, developed in step 7, to the "C" dimension found there. You now know where to place the center of the hitch relative to the back edge of the bed.

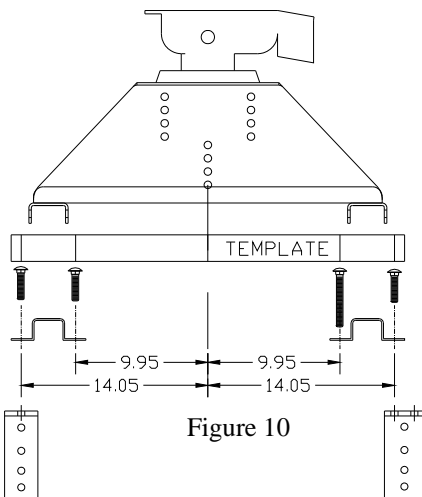


Figure 10

9. Place the hitch, with Base Rails attached, in the bed so that the center of the hitch is that distance generated in step 8 from the back edge of the bed as well as centered left to right. It may be easier to subtract from the distance generated in step 8 half the distance from the front edge of the front Base Rail to the rear edge of the rear Base Rail. That distance is 14-13/16". This is the distance "D", figure 8 page 6, from the back edge of the bed to the back edge of the rear Base Rail. Note that in Table 4 there are prefigured "D" dimensions, these will be covered later in the vehicle specific instructions.

General Installation Instructions Cont.

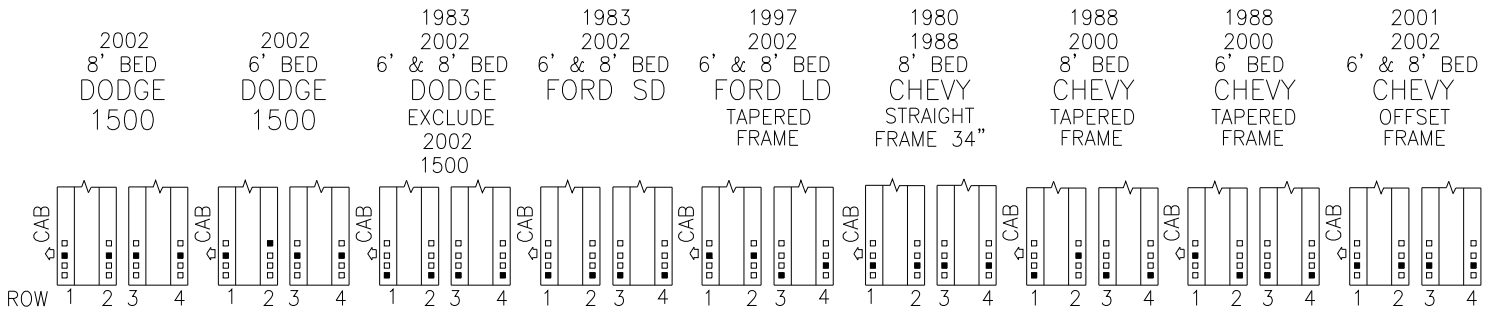


Figure 11

10. It is necessary to choose which of the available holes in each end of the Base Rails that will be used, for some trucks there is more than one choice. If possible, choose those holes that are located, relative to the channels in the bed, with enough room to insert Bed Shims (10), see page 3, either above or below the surface of the bed. You **may** consult Figure 11, this page, for pre-determined hole locations indicated by the darkened squares. The Base Rail hole locations indicated in Figure 11 are the ones to be used in the vehicle specific instruction that are covered later in this document. Note that they **may not** be the best ones to use for the hitch location you have chosen. In particular, hole selection for those vehicles with tapered frames **will** vary because the width of the frame varies as the hitch location changes.
11. Using a 9/16" transfer punch or a 9/16" drill bit, mark the location of the selected Base Rail holes on the bed as lightly as possible.
12. Using a very small diameter drill bit, drill one of the marked hole locations that corresponds to the selected location of one of the frame Mounting Brackets (4 or 8), see page 3. Leaving the bit in place, hold the Mounting Bracket selected in position, determined in step 5 page 7, against the frame and the bottom of the bed. Does the drill bit line up with the center of the horizontal slot in the Mounting Bracket? If so, perform the same checking procedure for the other three holes where Mounting Brackets are to be positioned. If not, or if it is not close enough to be usable, then adjust the location of the hitch in the bed or the selected Base Rail hole location as needed. Repeat this procedure until you are satisfied with the results.
13. Using the same small drill bit, drill and check for possible obstructions those of Base Rail hole locations where no Mounting Bracket will be used. See Figure 3 and Table 3 on page 3, and note the use of Center Hole and Offset Hole Back-up Plates (9 and 11). These Back-up Plates are simply large washers meant to provide a larger surface contact than a standard flat washer. The Offset Hole Back-up Plate (11) is used where clearance is a problem.
14. Remove the hitch from the bed of the truck. Drill each of the marked hole locations, preferably using a step drill of at least 3/4" diameter. (A step drill is a cone shaped bit that has a variety of gradually larger diameter sizes the deeper the drill is used.) The 3/4" holes will be covered by the Base Rails and will make the installation easier than if a 1/2" hole is used.
15. Place the hitch back over the top of the drilled holes after removing the drill shaving from the bed and treating the holes with a suitable rust inhibitor.

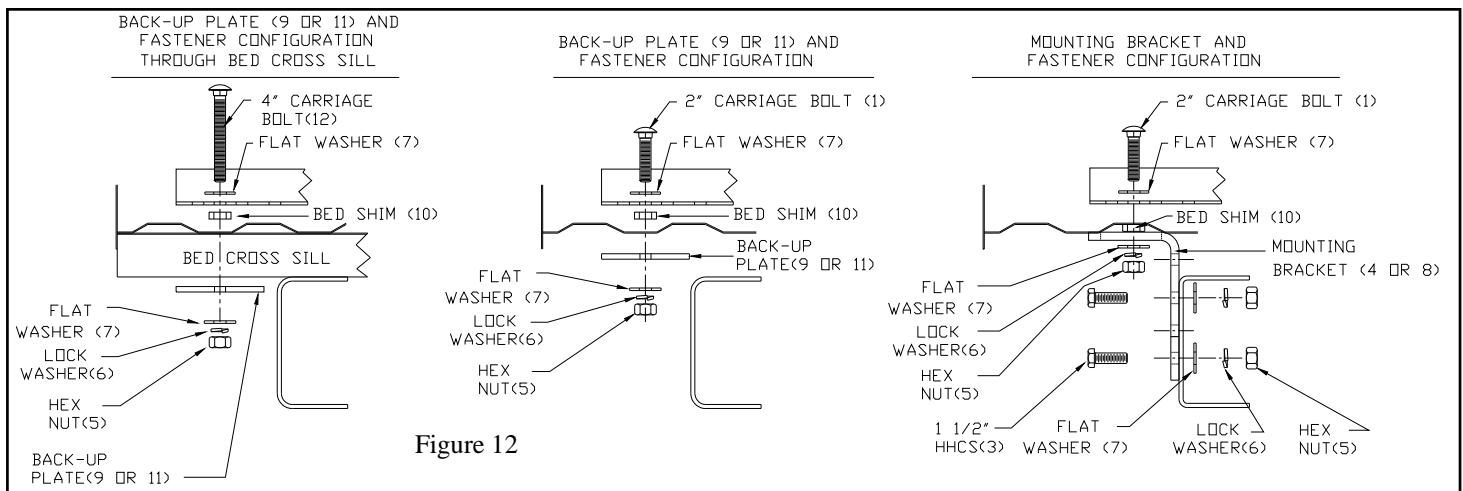


Figure 12

General Installation Instructions Cont.

16. Install a 1/2"-13 x 2" Carriage Bolt (1) through each hole. For those hole locations that may encounter a bed cross sill, drill the bottom of the cross sill with a 9/16" drill bit, then install a 1/2"-13 x 4" Carriage Bolt (12), see Figure 12 page 8.
17. See Figure 12 on page 8, fasten the Mounting Brackets (4 or 8) to the bottom of the bed using the 1" x 2" Bed Shims (10) to fill the bed channel (Bed Shims keep the bed channels from collapsing when the bolts are tightened.), Flat Washer (7), Lock Washer (6) and Hex Nut (5). If necessary, clamp the bracket to the side of the frame to be certain that it will remain flush against it.
18. Tighten these bolts to 75 foot pounds. Tighten those bolts that may pass through a bed cross sill to only 40 foot pounds so as not to crush the cross sill.
19. Drill two 1/2" holes in the frame for each Mounting Bracket (4 or 8) using the pre-punched holes as a guide. Select holes that will result in the widest spread possible.
NOTE: Before drilling, check the inside of the frame to guard against drilling into wiring or lines. Be sure to protect the fuel tank from possible puncture.
20. Fasten the Mounting Brackets (4 or 8) to the frame using two 1/2"-13 1-1/2" HHCS (3), Flat Washer (7), Lock Washer (6) and Hex Nut (5), then torque to 75 foot pounds.

The hitch is now installed.

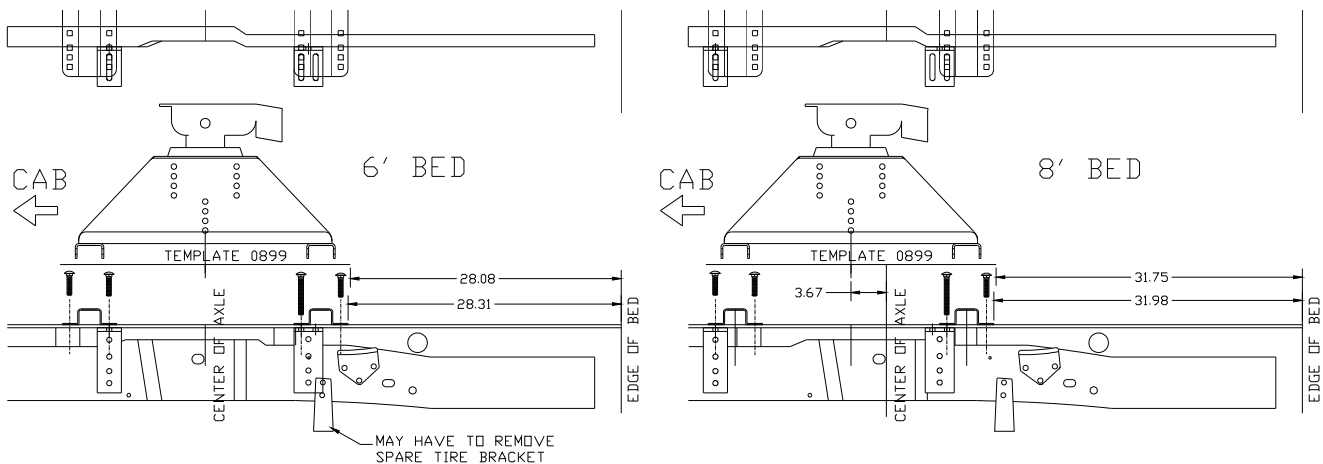
Vehicle Specific Instructions

The following vehicle specific installation instructions are intended to give the installer the best hitch locations with the easiest, fastest installation in mind. Each of these examples are not the only hitch location possible and the installer must take the responsibility for confirming their viability. In addition, PullRite has made bed Template, part number 0899, available through your hitch distributor. PullRite also advises serious installers to keep a log of each installation for reference when the same vehicle installation occurs. This log should include truck make, model, bed length, "D" or "E" measurements that may vary from Table 4 page 6 and any other short cuts that will make future installations faster.

NOTE: Even though the following examples include locations for short bed trucks, PullRite does not recommend the use of standard 5th wheel hitches in short bed trucks. PullRite produces the SuperGlide 5th wheel hitch that automatically slides to the rear of the truck as turns are made allowing the trailer to pass the cab without contact.

1. Refer to page 6 Table 4, Figures 8 and 9. If you are **not** using a Template 0899, then find the "D" dimension for the specific vehicle the hitch is to be installed in. If you **are** using Template 0899, then find the "E" dimension.
2. Position the hitch or Template 0899 in the bed using the "D" or "E" dimensions respectively. Also center either hitch or Template 0899 in the bed from side to side.
3. Select the appropriate Base Rail Hole locations for your vehicle from Figure 11 page 8.
4. Find the vehicle specific drawings on this and following pages. Some have special notes.
5. Perform steps 11 through 20 of the General Installation Instructions.

1998 and OLDER, FORD SUPER DUTY, F150 – F350



1999 – 2008, FORD SUPER DUTY, F250 – F350

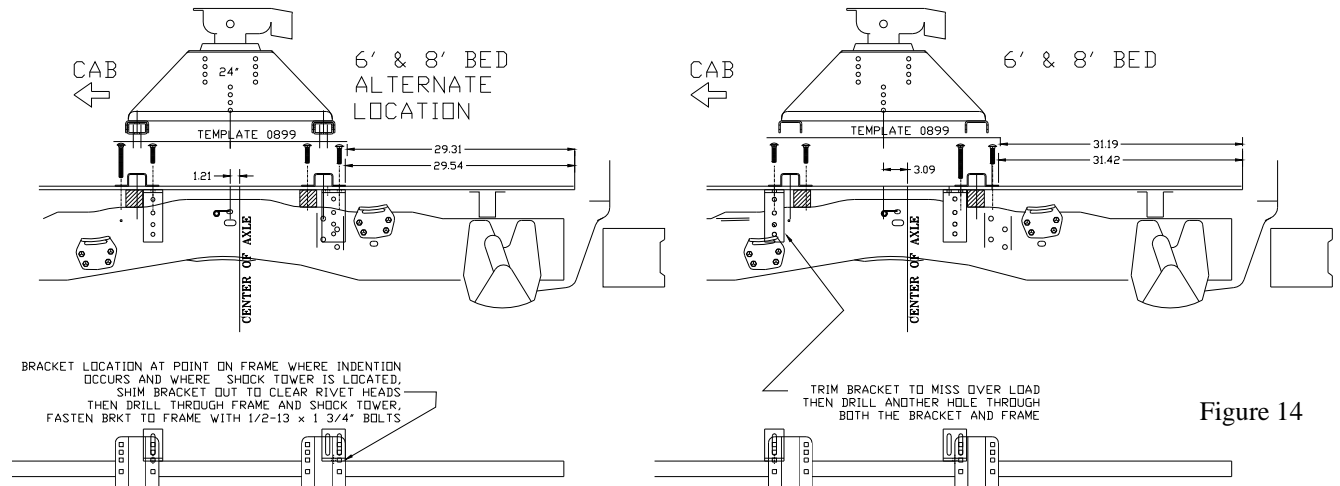


Figure 14

1997 – 2003, FORD LIGHT DUTY, F150 – F250

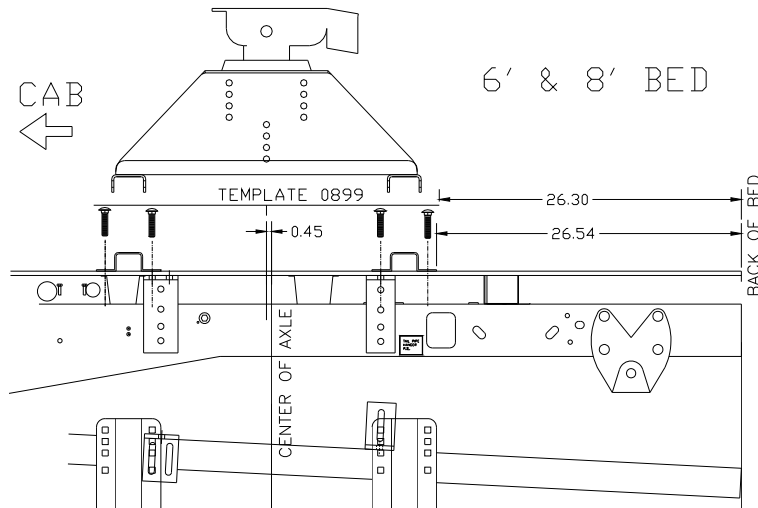


Figure 15

1994 – 2002, DODGE RAM, 1500 – 3500 (Excludes 2002 1500)

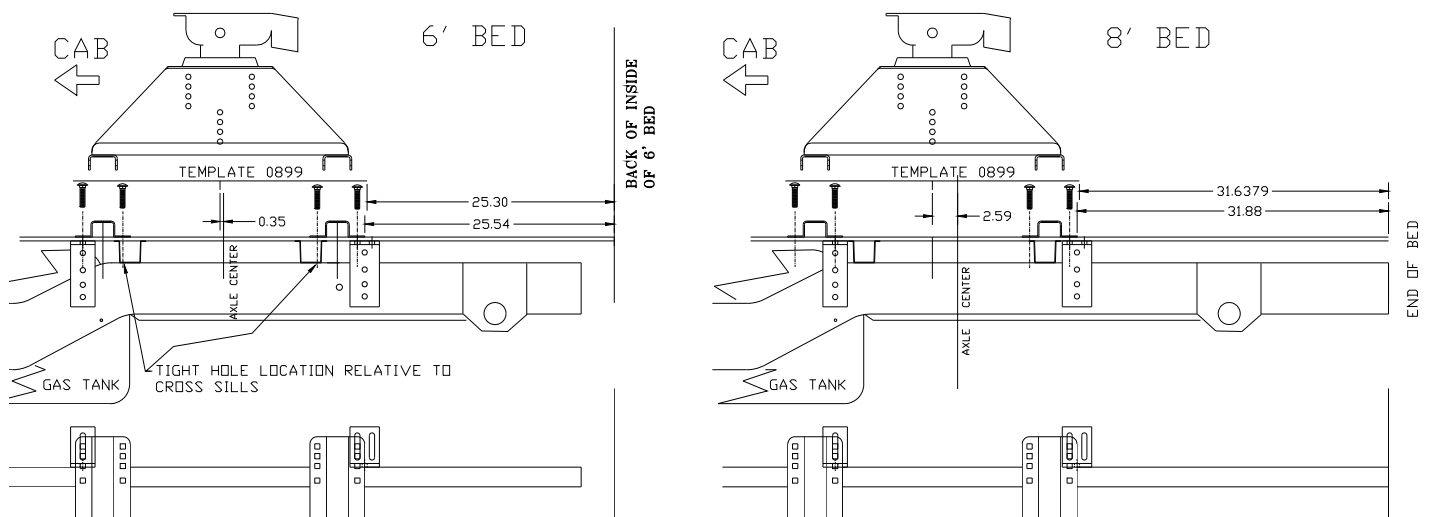
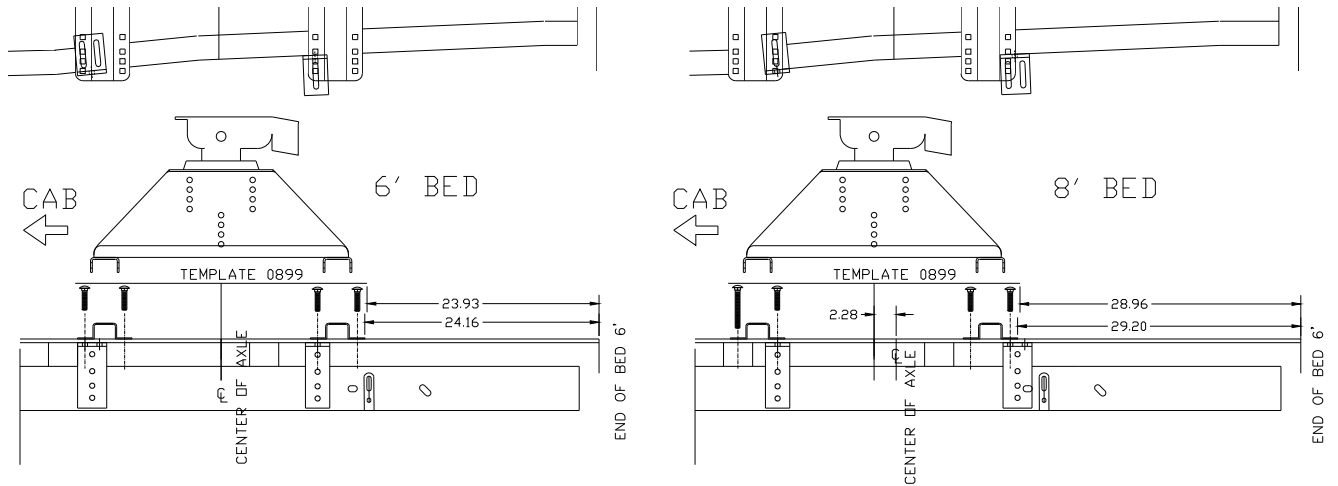


Figure 16

1988 – 2000, CHEVROLET / GMC, 1500 – 3500 (Tapered Frame)



1999 – 2008, CHEVROLET / GMC, LD & HD, 1500 – 3500

