

73769

**Frame Bracket Kit for DSP
35" DP FW & GN Hitches**

IMPORTANT: The bracket/hole placement is a suggestion. Frames vary! Always check the frame prior to drilling if this is the best location for the brackets. If the suggested holes are not ideal, move to the next closest hole.

Measurement end of rail to end of box		
Comp. box <6.2'	Short box 6.5'	Long box 8'
See Note#1	18.75"	21.5"

Frame Bracket placement
by hole number
(see drawing below)

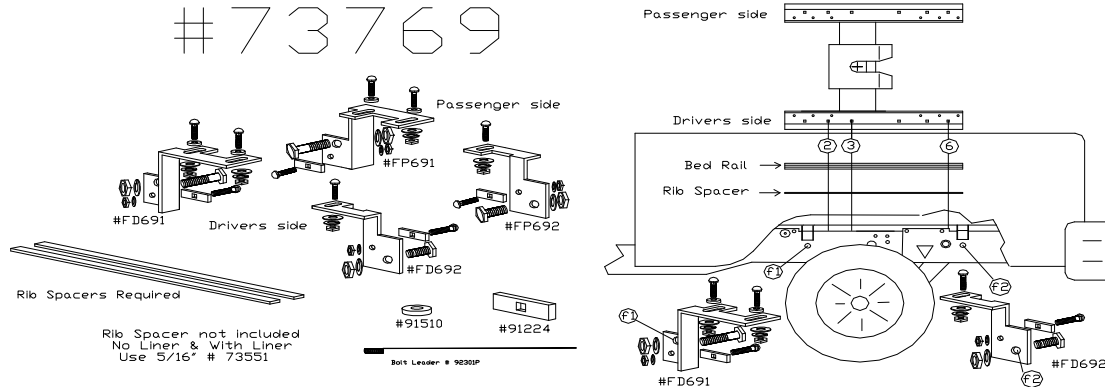
Hitch application	Notes	Years	Frame Bracket placement by hole number (see drawing below)
Dodge Ram 3500/4500	all, incl. RAMBOX (see note #3 below)	2013-cur	FD691/FP691 - 2&3, FD692/FP692 - 6

NOTE #1: Can be installed on compact box. Must be used with 10" King Pin extension or with the Reese Sidewinder use the RBW Wedge.

NOTE #2: Place center of king pin 1"-2" ahead of the axle when in travel position (closest to cab).

NOTE #3: On older model fifth wheel crossbars the handle may require altering by bending with heat to avoid close proximity to box.

NOTE #4: On some applications, hole #F2 (see drawing below) may be missing and need to be drilled. In addition, the muffler hanger on the passenger side may require modification.



*** At any point during installation, ensure that once placement is made, there are NO lines or wires interfering prior to drilling.**

Parts List	Contents of Bolt Pack # 73769/B	
1 FD691 Driver Side Front Frame Bkt	4 Carriage Bolt 1/2 x 3 Fully Threaded, Grade 5, UNC, P	6 Flat Washer 1/2, Plated
1 FP691 Passenger Side Front Frame Bkt	4 Carriage Bolt 1/2 x 1-1/2, Grade 5, UNC, Plated	10 Hex Nut 1/2, Grade 5, UNC, Plated
1 FD692 Driver Side Rear Frame Bkt	2 Hex Bolt 1/2 x 3, Grade 5, NC, Plated, 1/2 Thread	4 Hex Nut 3/4-10 Grade 2, UNC Plated
1 FP692 Passenger Side Rear Frame Bkt	2 Hex Bolt 3/4-10 x 4-1/2, Grade 5, UNF, Plated	4 Rectangle Spacer 1/2" Hole
1 Bolt Pack 73769/B	2 Hex Bolt 3/4 x 1-1/2, Grade 5, UNC Plated	4 Round Spacer 1-1/4"
1 Instructions F70000 Series	10 Lock Washer 1/2, Grade 5, UNC, Plated	1 Bolt Leader 48"
	4 Lock Washer 3/4, "C" Plated	

Tools Required		Ship	24.5 lbs
3/4" & 1 1/8 Wrench and Socket	Drill and 1/2" & 3/8" drill bit or step drill bit	Weight:	11.14 kg
100 FT Torque Wrench	12" pieces of 2 x 4 wood		

Bed Rail Placement: 1) Follow the general installation guidelines for the assembly of the upper half of hitch system of your choice that is included with the upper half of the system. The rails have a closed side and an open side (to slide the hitch in and out). Place closed end near cab. Slide the hitch into rails and lock in travel position (closest to end of the rail near cab). Place system with rails in the truck box and use measurements above as a guideline. Center hitch in between wheel wells. **Note:** For best results for the installation of the gooseneck hitches, install or use a fifth wheel hitch as a template or refer to the measurements under general "Gooseneck Hitch" installation guidelines. **This installation requires the use of bed rail rib spacers # 73551P.** Rib spacers keep the rail level during installation and usage of the hitch. Place rib spacers between box and rails.

Bed Rail Mounting: 2) Drill pilot holes through the box (see chart above). Check if there are any obstructions for the placement of the brackets. Warning!!! On driver's side, wedge the 2x4" wood pieces between the frame and the floor for drilling holes #2 & 3 to avoid damaging the electric or brake lines. Drop the 1/2x3" carriage bolt through the rail and holes. Note: hole #6 many require a hex bolt instead of a carriage bolt.

Frame Bracket Placement: 3) Place brackets onto frame as shown above lining up the 3/4" hole on the frame bracket to the hole already in existence on your frame (in drawing above: F1 for front brackets and F2 for rear brackets). Wedge round spacer between the box and top of the frame bracket for holes #2 & 3. Secure brackets in place with 3/4x4-1/2" hex bolts for the front brackets and 3/4x1-1/2" hex bolts for the rear brackets and hand tighten using 3/4" lock washer and hex nut. Note: Spare tire shield may need to be loosened to install the 3/4" bolts. Use the frame brackets to mark the remaining holes on the frame to drill.

4) Using a 3/8" drill bit, drill pilot holes into the frame and then enlarge the holes with a step drill or 1/2" drill bit. Place 1/2x1-1/2" carriage bolts and rectangle spacer through the frame into the drilled holes. Hand tighten using 1/2" lock washer and hex nut.

5) Place 1/2" flat washer, lock washer and hex nut on carriage bolts which were dropped through the truck bed and hand tighten.

6) Tighten all 1/2" fasteners to torque specifications below before tightening 3/4" fasteners to torque specifications below.

Bolt Size	Grade 5 Torque	Metric	Grade 8.8 Torque
9/16	110 Ft. Lb	8 mm	18 Ft. Lb.
7/16	54 Ft. Lb	10 mm	36 Ft. Lb.
1/2	72 Ft. Lb.	12 mm	75 Ft. Lb.
5/8	150 Ft. Lb	14 mm	103 Ft. Lb.
3/4	245 Ft. Lb	Maximum torque for weld or weld nuts is 38 FT/Lb	

Warning: Check Fasteners annually or before usage, if the hitch is damaged replacement may be necessary. Do Not exceed hitch manufactures hitch ratings listed above, DO NOT drill or alter this product. This product is only intended for the application listed above, see vehicle owner's manual for maximum towing capacity (GVWR). This product is intended for usage with the correct towing accessories and not to be used with tow ropes, cables, chains or any type of stretch or elastic rope.

DSP Hitches are manufactured by 2114391 Alberta Ltd. Edmonton Alberta, Canada. For more information on DSP Hitches call 1-800-265-3377 or visit us at www.dsphitches.com