



Installation Instructions

Kit, Base Rail Bracket Part # 31404

Dealer / Installer: Provide a copy of these Instructions to the end user of this product. These Instructions provide important operating and safety information for proper usage of this product. Demonstrate the proper use of the product with the end user. Have the end user demonstrate that they understand the proper use of the product.

End User: Read and follow all instructions included in this manual. Ask your Dealer / Installer for assistance if you do not understand the proper use of the product. Never remove any warning decals from the product.

*APPLICATION: 1994 – 2001 Dodge Ram Pick-up
2002 Dodge Ram 2500 & 3500 Pick-up*

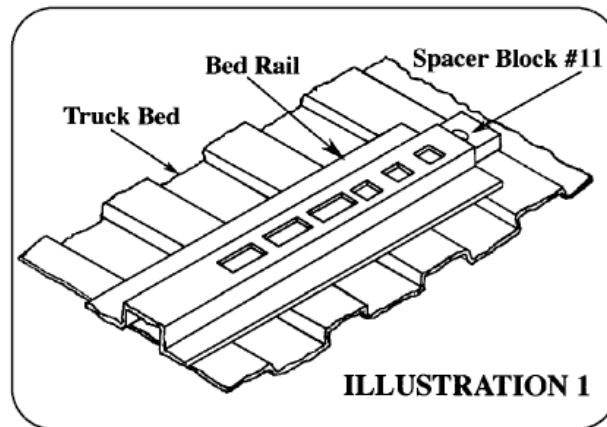
NOTE: This bracket kit is to be used with the 31323 Bed Rail Kit.

Complete Parts List			
Item No.	Part No.	Description	Quantity
1	ERD10766	Spacer, Tube - Weldment	2
2	ERD10659	Bracket "L" long	2
3	ERD10020	Plate, Spacer	4
4	ERD10029	Bolt, Wheel 1/2 -13 X 1-1/2"	2
5	ERD12189	Lock Nut Serrated 1/2 -13	2
6	ERD10028	Bolt, Carriage 5/8 -11 X 3-1/2"	2
7	ERD10677	Bolt, Hex 5/8 -11 X 5-1/2"	2
8	ERD12188	Washer, Flat (5/8)	4
9	ERD12187	Washer, Lock (5/8)	4
10	ERD12184	Nut, Hex (5/8 -11)	4
11	ERD10031	Plate, Spacer 3/4"	4
12	ERD10030	Pull Wire (1/2)	1

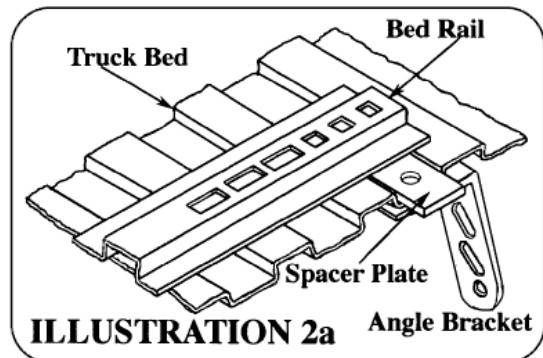
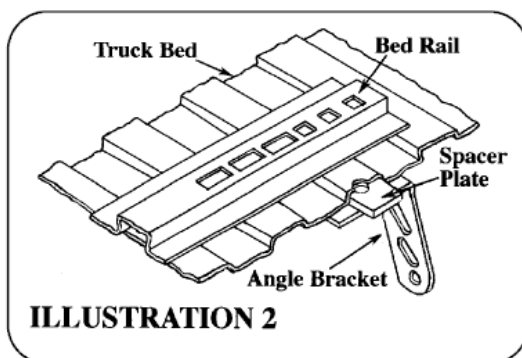
Caution: Do not install mounting rails over plastic bed liners. Plastic bed liners must be cut out of the way. Rails may be installed on spray in liners.

Note: Consult spray liner installer for recommended curing time.

1. Place the two bed rails across the truck bed between the wheel wells. Position the 5th wheel uprights between the bed rails so that the tabs in the base of each upright will fit into the slots in the ends of the bed rails. Secure the uprights in place with the rail hitch pins and hair pins supplied with the 5th wheel installation kit. Securely attach 5th wheel cross member to uprights.
2. Position the bed rail assembly in truck bed as shown on the illustrations at the end of this sheet. Bed rails may be placed at several locations as shown on Illustrations. When hitch is correctly positioned in the bed and the bed rails are parallel, mark four attachment points on the truck bed using the 5/8" square holes indicated on the layout Illustrations. Check below the bed before drilling holes to see that all wiring, brake lines or other obstructions are moved out of the way and will not be contacted by the drill. Move the hitch assembly out of the way and drill four 5/8" diameter attachment holes down through the bed at the previously marked points.
3. Reposition the bed rails in the bed so that the square 5/8" hole in the end of each rail is lined up over the drilled holes. Place a 3/4" thick spacer block (#11) under ends of each bed rail, in line with the drilled holes, as shown on Illustration 1.

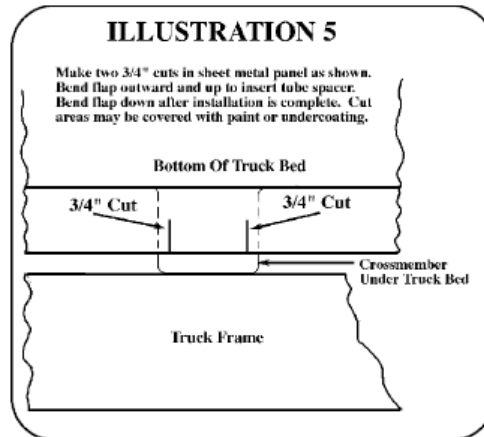


4. If the bed corrugation above the angle bracket is UP, leaving a space above the angle bracket, place a spacer plate (#3) in this location as shown on Illustration 2. If the corrugation is DOWN, at this location, place a spacer plate (#3) in the bed, under the base rail as shown on Illustration 2a. Bolt parts loosely in place as illustrated.



5. Position the angle brackets (#2) under the bed, at the rear attachment and align with the 5/8" carriage bolts (#6) protruding down through the bed. Slide tube spacers (#1) into the forward under bed hat section from the open end in each wheel well.

NOTE: On some applications a small filler panel may appear to obstruct placement of tube spacer. This filler panel can be modified to gain access to the hat section. See detail for this procedure on Illustration 5. Align the tube spacers with drilled holes and drop 5/8" bolts (#7) down through all parts and top of frame.

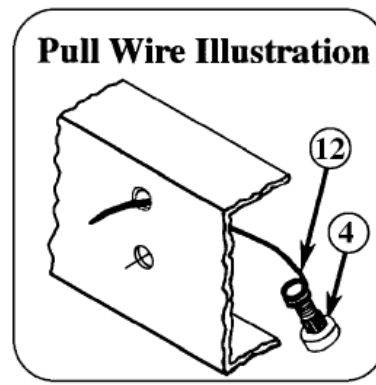
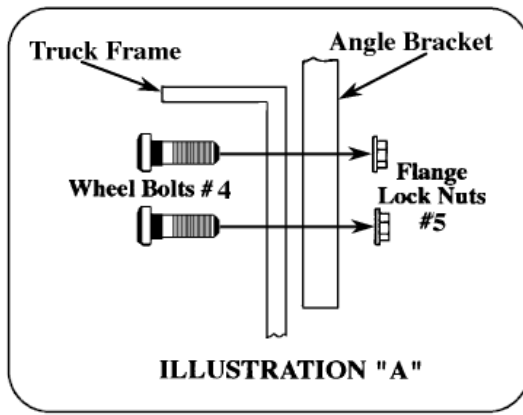


6. Moved the installed angle brackets so that they rest tightly against the flat side of the truck frame and underneath surface of truck bed. Drop 5/8" carriage bolts (#6) down through bed rails and angle bracket.

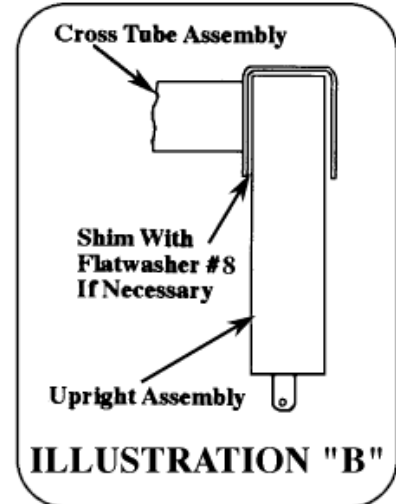
NOTE: There are two types of 5/8" bolts. Use the hex bolts (#7) at the tube spacer locations where they will go through the top of the frame. Use the carriage bolts (#6) at the angle bracket attachments. Securely bolt loosely in these rails in place. Be sure the angle brackets are tight against the side of truck frame.

7. Before drilling any holes, check inside the frame to be sure that there are no wires, brake lines or other obstructions in the frame which may be contacted by the drill. Each of the angle brackets must be attached to the side frame of the truck with two special 1/2" wheel bolts. Drill two 17/32" holes through the side of the truck frame using two of the holes in each angle bracket as guides. See Illustration "A".

CAUTION: Holes MUST be drilled 17/32" diameter, so that the special wheel bolts will seat properly. If holes are too small, the bolt may break. If holes are too big, the bolt will not grip properly.



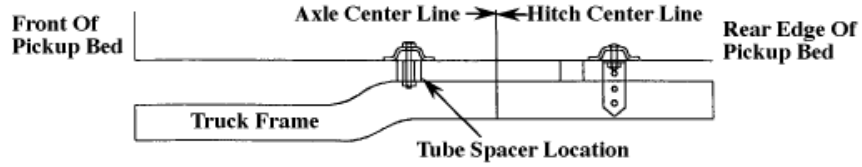
8. Place the special bolts into the frame first and then out through the angle brackets. See Illustration "A". Some applications will require the use of a pull wire (#12) to align the bolts into the drilled holes in the frame. Thread the pull wire coil over the end of the wheel bolt and pull through frame and angle bracket. See Pull Wire Installation. Secure each bracket to the truck frame. The knurled portion of the bolts will lock into the frame holes as the nuts are tightened. Use of an air wrench will make installation much better.
9. Tighten all 1/2" attachment bolts to 75 ft.-lbs. torque.
10. Check each rail hitch pin for freedom of movement in the bed rail connection before tightening the 5/8" bolts. Adjust uprights, if necessary, by placing a washer between the upright and the cross member to obtain free pin movement. See Illustration "B".
11. Tighten each 5/8" bed rail attachment bolt to 150 ft.-lbs. torque. Failure to tighten bolts as described may result in fastener loss or failure.



Torque Value Chart	
Bolt size	Torque Range (ft. - lbs)
1/2	75
9/16	110
5/8	150
3/4	260

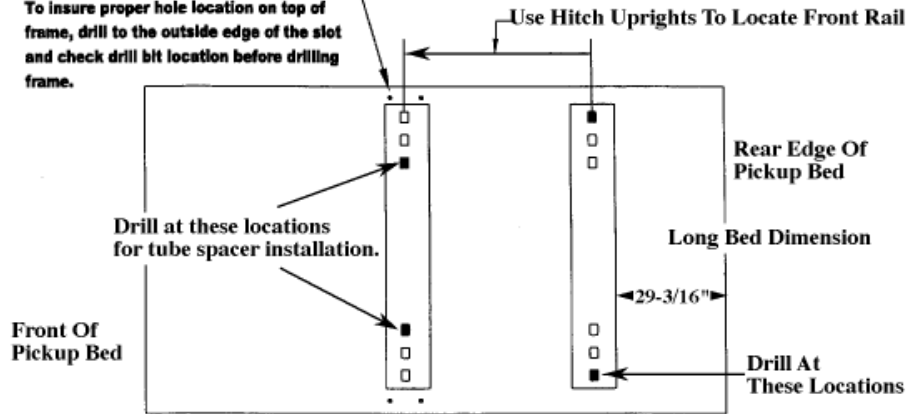
Long Bed Applications

Hitch Centered Over Axle

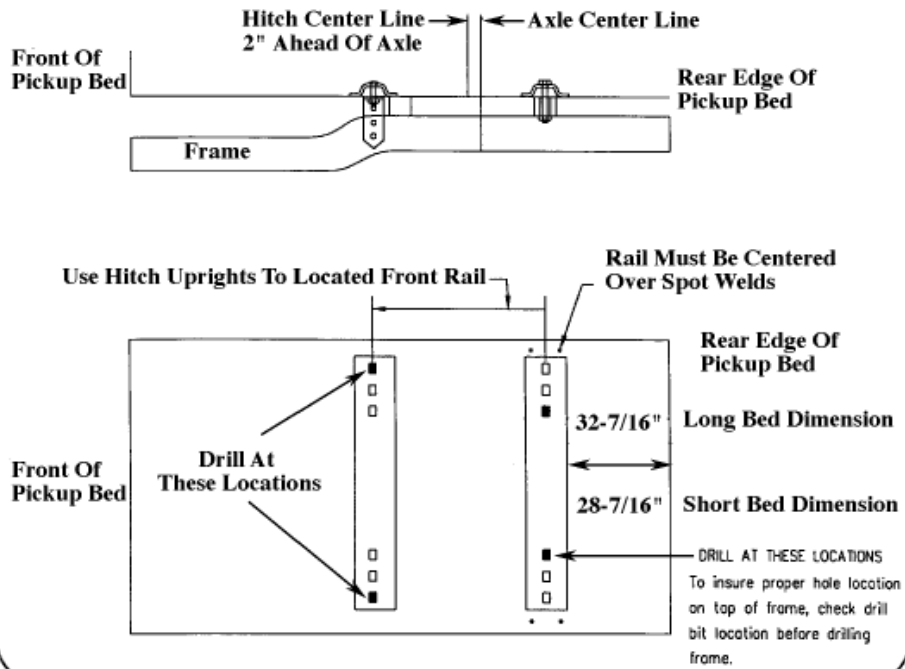


Rail must be centered over spot welds

To insure proper hole location on top of frame, drill to the outside edge of the slot and check drill bit location before drilling frame.



Short Bed & Long Bed Applications Hitch Location 2" Ahead Of Axle



Short Bed Application 1" Behind Axle Location

