Installation Instructions



Kit, Base Rail Bracket

Part # 31397

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:

1999 – 2007 Classic Chevrolet & GMC Silverado & Sierra 1500 & 2500 Light-Duty Pick-ups.

1999 – 2007 Classic Chevrolet & GMC Silverado & Sierra 2500 & 3500 Heavy-Duty Pick-Ups

2007 – 2010 New Body Style Chevrolet & GMC Silverado & Sierra 2500 & 3500 Heavy-Duty Pick-ups with or without Integrated Electric Brake Control – No change to IBC Position

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

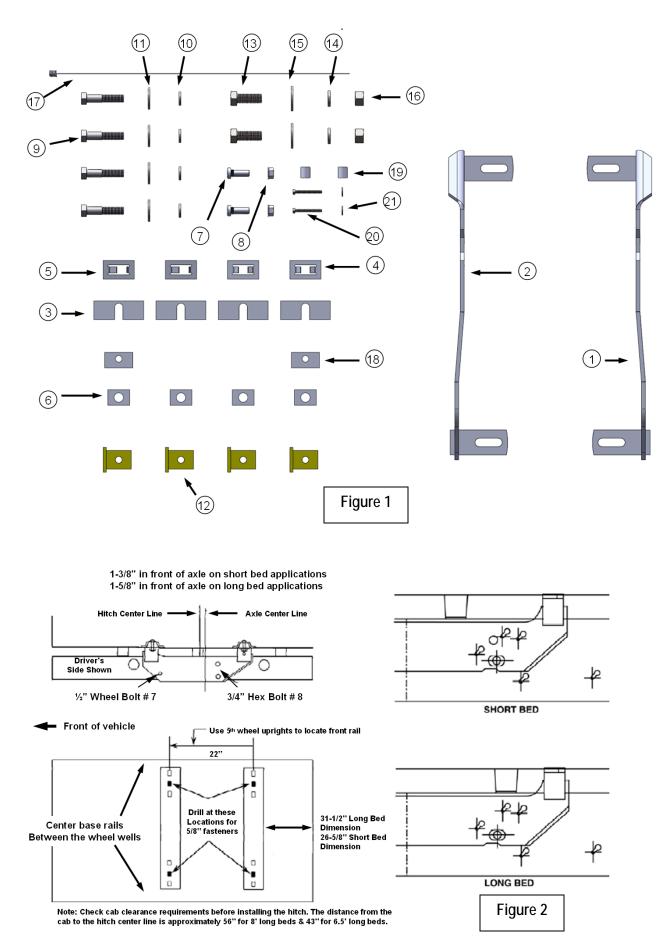
Complete Parts List			
Item No.	Part No.	Description	Quantity
1	ERD10417	Bracket Left Frame Weldment	1
2	ERD10418	Bracket Right Frame Weldment	1
3	ERD10020	Plate, Spacer	4
4	ERD10420	Spacer Center Alignment	2
5	ERD12571	Spacer Offset Alignment	2
6	ERD10031	Spacer, Plate 3/4"	4
7	ERD10029	Bolt, Wheel 1/2 -13 X 1-1/2"	2
8	ERD12189	Lock Nut Serrated 1/2 -13	2
9	ERD10390	Bolt, Hex 5/8 -11 X 3"	4
10	ERD12187	Washer, Lock (5/8)	4
11	ERD12188	Washer, Flat (5/8)	4
12	ERD10393	Plate, Tapped 5/8 -11	4
13	ERD10419	Bolt, Hex 3/4 -10 X 2"	2
14	ERD10396	Washer, Lock (3/4)	2
15	ERD12248	Washer, Flat (3/4)	2
16	ERD10397	Nut, Hex (3/4 -10)	2
17	ERD10030	Pull Wire (1/2)	1
18	ERD10018	Plate, Spacer 3/16"	2
19	ERD10714	**Spacer, Tube x 7/8"	2
20	ERD10712	**Screw, 6mm x 55mm	2
21	ERD10579	**Washer, Flat (6mm)	2

Tools Required			
3/4" Socket & Wrench			
15/16" Socket & Wrench			
5/8" Drill Bit			
17/32" Drill Bit			
Torque Wrench			
Safety Glasses			

^{**} not used on vehicles that do not come equipped with the integrated brake

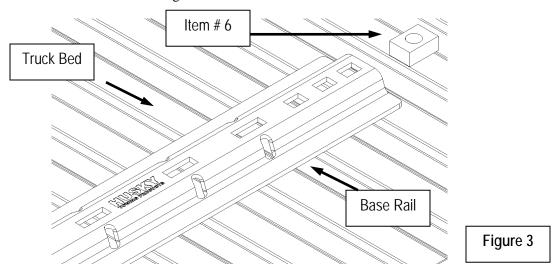
<u>CAUTION</u>: Do not install mounting rails over plastic bed liners. Plastic bed liners must be cut out of the way. Rails may be installed on spray in liners.

NOTE: Consult spray liner installer for recommended curing time.

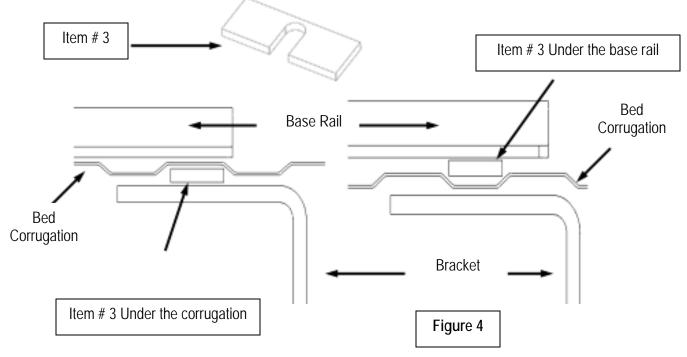


All Products limited to Vehicle Tow Rating; see Vehicle Owners Manual November / 2009 See $\underline{www.huskytow.com}$ for Warranty Information / Tech Support Page 2 of 6

- 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 in Figure 2. 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 in Figure 2. 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 ¾" thick spacer block (#6) under ends of each bed rail, in line with the drilled holes as shown on Figure 3.

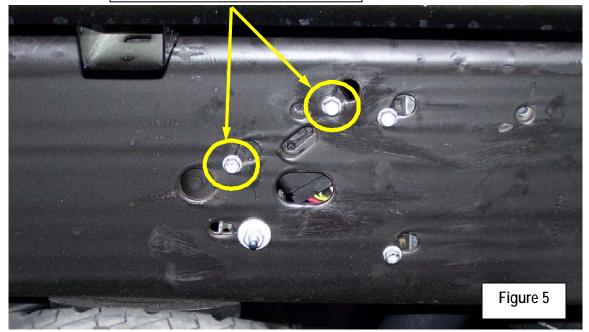


4. If the bed corrugation above the frame is UP, leaving a space above the frame bracket, place a spacer plate (#3) in the bed, under the base rail as shown on Figure 4.

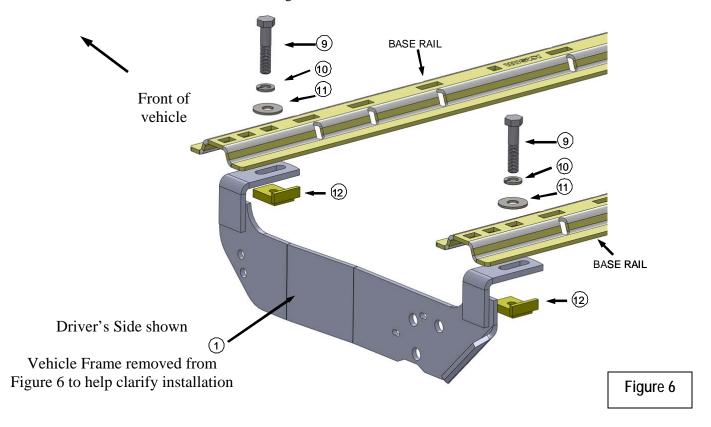


5. Remove the two existing screws holding the forward IBC Unit onto the frame at the large 3/4" diameter bolt hole. Complete the installation then re-install the forward IBC Unit using longer 6mm bolts, flat washers, and tube spacers. See Figure 5.

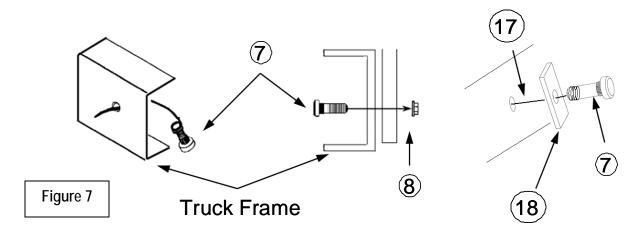
2 existing screws for IBC Unit



6. Position the left and right frame brackets (#1) and (#2) up against the outer surface of the truck frame with the mounting tabs positioned over the frame and under the bed in line with previously drilled holes in bed. See Figure 6.

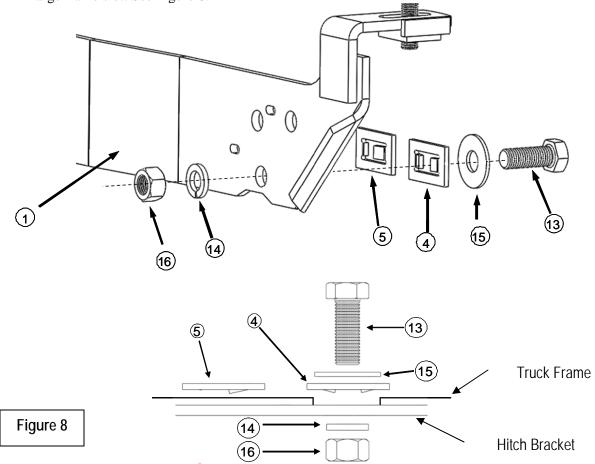


- 7. Move the frame brackets so that they rest tightly against the flat side of the truck frame and underneath surface of truck bed. Drop the 5/8" hex bolts down through the bed rails and angle bracket. Thread bolts into tapped plates (#12) placed under frame bracket tabs. Securely bolt frame brackets in place. Be sure they are tight against the side of truck frame. See Figure 6. Tighten the 5/8" bolts to 125-160 ft.-lbs. torque.
- 8. 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. Also, check the forward frame bracket attachment hole to see if there is a hole in the truck frame that is aligned with hole in the frame bracket. Each of the frame brackets must be attached to the side of the frame of the truck with a special 1/2" wheel bolt at the forward hole and a 3/4" bolt at the rear hole.
- 8a. If there is no hole in the truck frame at the front attachment point, drill a 17/32" hole through the side of the truck frame using the hole in each frame bracket as a guide.
 <u>CAUTION</u>: 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.

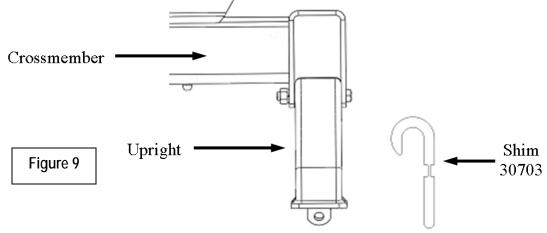


9. Place the wheel bolt into the frame first and then out through the frame brackets. See Figure 7. On applications with existing slots in frame, insert a 3/16" spacer on the pull wire before the bolt. Thread the pull wire coil over the end of the wheel bolt and pull through frame and frame bracket. See Figure 7. 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.

10. At the rear of each frame bracket there are two large attachment holes. Choose the one hole which lines up with the existing hole in the truck frame. Bolt frame bracket to truck frame with 3/4" fasteners as shown in Figure 8. Be sure to use one of the alignment spacers (#4 or #5) that will best line up with the bolt and large slot in the truck frame. Alignment spacer must rest fully into the large frame slot. See Figure 8.



- 11. Tighten all 1/2" attachment bolts to 75 ft.-lbs. torque and the 3/4" bolts to 260 ft.-lbs. torque. Failure to tighten bolts as described may result in fastener loss or failure.
- 12. Check each rail hitch pin for freedom of movement in the bed rail connection before tightening the 5/8" carriage bolts. Adjust uprights, if necessary, by placing shim 30703 between the upright and the cross member to obtain free pin movement. See Figure 9.



13. 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.