



**B&W Trailer Hitches**  
 1216 Hawaii Rd. / PO Box 186  
 Humboldt, KS 66748  
 P:620.473.3664  
 F:620.473.3766

**NOTE:** *we recommend reading instructions before beginning the installation.*

## Frame to Rail Bracket Kit 3203 Installation Instructions For use in conjunction with 3200 Universal Rail Kit.

# Model 3203

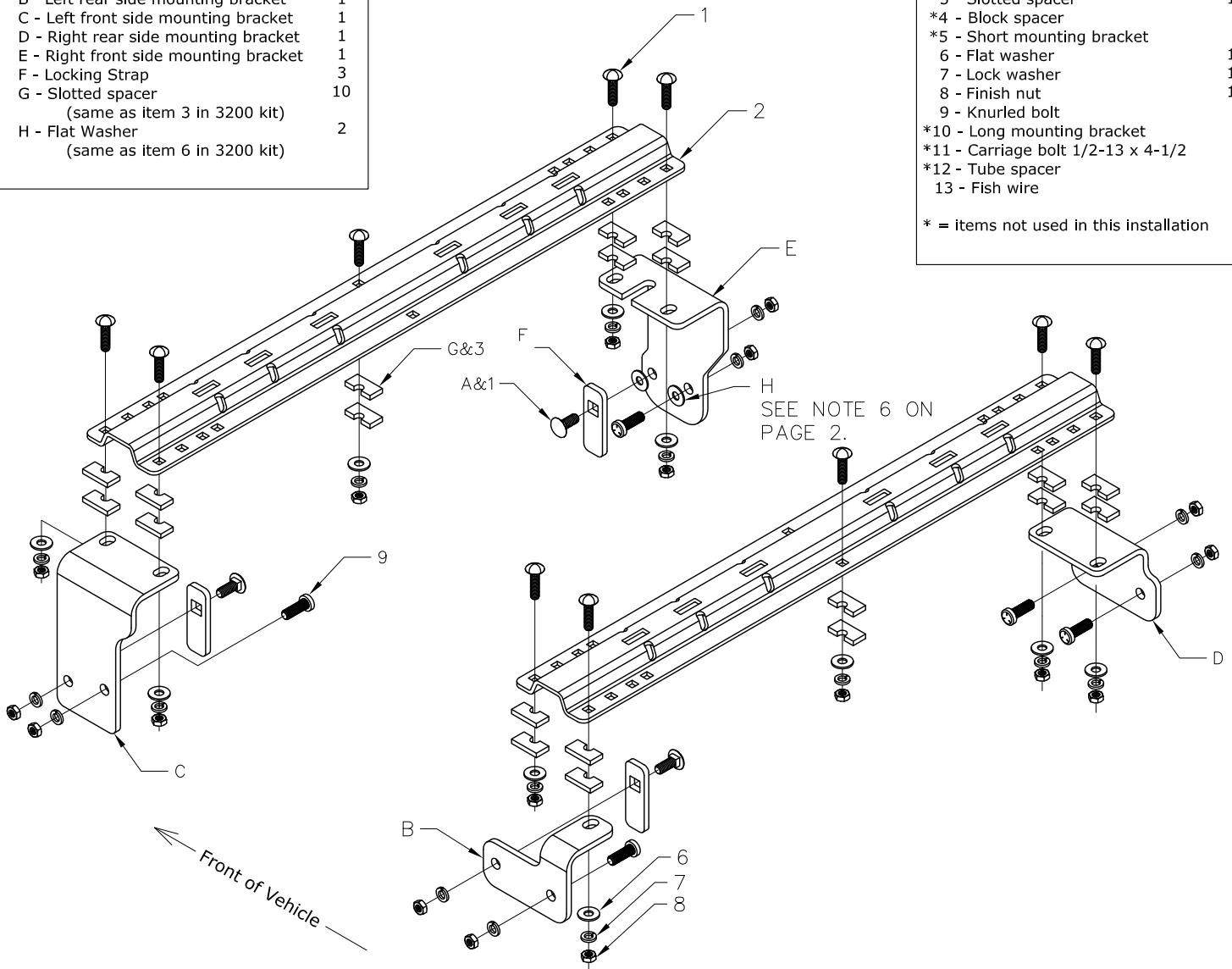
Call or Email us for Installation Support  
 hitches@turnoverball.com [www.turnoverball.com](http://www.turnoverball.com)

**TOOLS REQUIRED FOR 3200 & 3203 INSTALLATION**  
 3/16" DRILL BIT    17/32" DRILL BIT    3/4" SOCKET AND WRENCH    100 lb-ft TORQUE WRENCH

3203 HARDWARE KIT	QTY:
A - Carriage bolt 1/2-13 x 2" (same as item 1 in 3200 kit)	3
B - Left rear side mounting bracket	1
C - Left front side mounting bracket	1
D - Right rear side mounting bracket	1
E - Right front side mounting bracket	1
F - Locking Strap	3
G - Slotted spacer (same as item 3 in 3200 kit)	10
H - Flat Washer (same as item 6 in 3200 kit)	2

3200 HARDWARE KIT	QTY:
1 - Carriage bolt 1/2-13 x 2"	10
2 - Mounting rail	2
3 - Slotted spacer	10
*4 - Block spacer	2
*5 - Short mounting bracket	2
6 - Flat washer	10
7 - Lock washer	18
8 - Finish nut	18
9 - Knurled bolt	8
*10 - Long mounting bracket	2
*11 - Carriage bolt 1/2-13 x 4-1/2	2
*12 - Tube spacer	2
13 - Fish wire	2

\* = items not used in this installation



Read these instructions completely and also pages 1 & 2 of 3200 universal rail instructions before beginning installation. Failure to do so could result in significant vehicle damage.

**CAUTION:**

Check for obstructions below the truck bed before drilling. Failure to do so could result in damaged fuel or brake lines, structural members, etc. B&W does its best to communicate tow vehicle manufacturer changes; however, it is ultimately the responsibility of the installer to prevent damage due to installation.

**WARNING:**

Do not install on a truck with a 5'6" long bed unless provision has been made to prevent the trailer from hitting the cab of the truck.

1. Rib neck bolts, Carriage bolts, & Locking straps will need to be pulled through access holes in frame with supplied pull wire (see below).
2. Each mounting bracket must be attached to the truck frame with two 1/2" bolts. Existing holes in frame will be used in the front hole of each bracket except the right rear bracket. If existing holes can not be used, 17/32" holes will need to be drilled.
3. Use the mounting brackets to mark the holes that need drilled in the frame. Use only a 17/32" drill bit. Only drill through the face of the frame that the brackets attach to.
4. For existing frame holes, use a supplied fishwire to pull a carriage bolt and locking strap through a larger access hole into the frame and out through the frame and bracket hole. The bolt threads will be pointing outward through the bracket.
5. For drilled holes, use a supplied fishwire to pull a rib necked bolt through a larger access hole into the frame and out through the drilled frame hole and bracket hole. The threads of the bolt will be pointing outward through the bracket.
6. For front right bracket only, place a 1/2" flat washer between bracket and frame at both mounting holes.
7. When the brackets are in place add a lock washer and finish nut to each bolt and torque to 85 ft-lbs.
8. \*Due to tubular frames having thinner walls than channel frames, extra caution needs to be used when mounting with the optional welding.

USE ASSEMBLED PATRIOT BASE TO POSITION FRONT RAIL.

