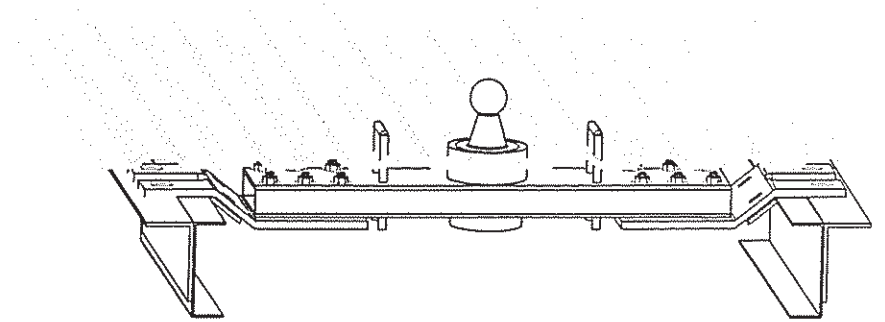


The Diamond Hitch

America's Premium Gooseneck Hitch

DH1201

DH1202



**The Diamond Hitch is rated to 30,000 lb. Gross Towing Weight and
7,500 lb. tongue weight.**

******* WARRANTY CAUTION *******

**INSTALLATION MUST BE PERFORMED BY A QUALIFIED MECHANIC WITH
TECHNICAL KNOWLEDGE OF BASIC MECHANICAL SKILLS**

INSTALL & SAFETY GUIDE

• WARRANTY CAUTION •

**INSTALLATION MUST BE PERFORMED BY A QUALIFIED MECHANIC WITH
TECHNICAL KNOWLEDGE OF BASIC MECHANICAL SKILLS.**

Blue Ox

One Mill Road, Industrial Park

Pender, NE 68047

Phone 402-385-3051 Fax 402-385-3360

Online: <http://www.blueox.us>

<http://www.diamondhitchinc.com>

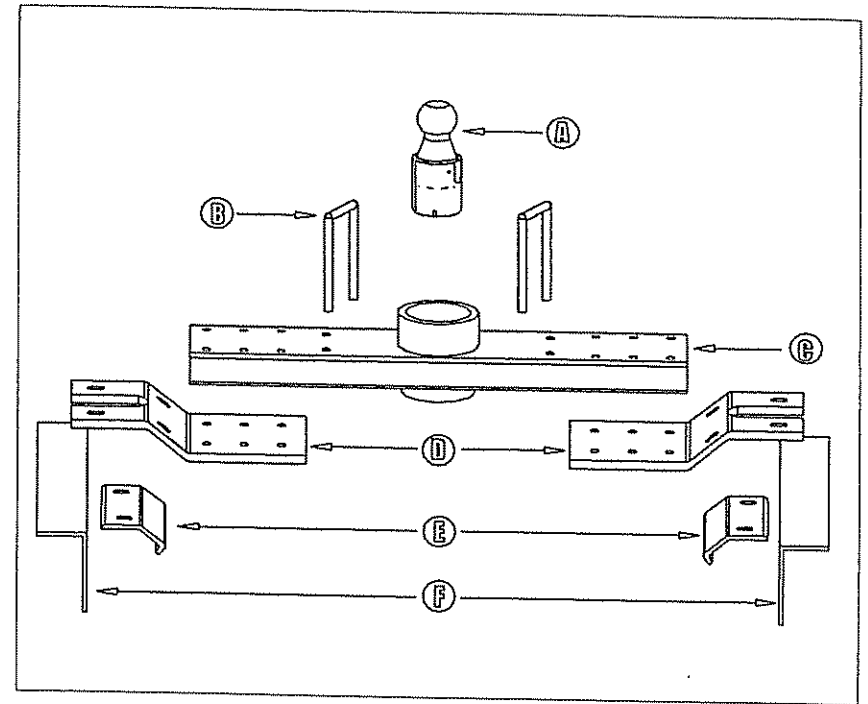
E-mail: sales@diamondhitchinc.com

SAFETY NOTES FOR THE DIAMOND HITCH

1. Read all instructions and safety precautions before proceeding with installations.
2. Do not use any open flame under the truck bed to cut or weld. There is extreme danger of explosion or fire.
3. Vehicle must be securely blocked and brakes set before working underneath.
4. Do not clamp hitch over any wiring or brake lines.
5. Always make sure trailer is loaded slightly tongue heavy. Do not pull a trailer that is lighter on the tongue end.
6. The ball is properly latched when the flat surface of the ball stud is level with the cylinder. When the ball is in the latched position it will not rotate or move up and down.
7. Retorque the bolts after the first 500 miles of trailer towing; thereafter check during normal service.
8. The installer must instruct the operator on proper ball installation and locking procedures.



PARTS LIST



- A: Ball Stud: Twin Lock or Inverta (1x)
- B: Safety Chain Loop (U-Bolt) (2x) left +right
- C: Rectangular Tube (2"x6") and Receiver Cylinder
- D: Z Assembly (Gator plate) (2x) left+right
- E: Fulton Clamp (2x) left+right
- F: L Bracket (2x) left+right



Inverta Ball Installation and Removal

To install the Inverta Ball

1. Align pin (A) with slot (B) in hitch, drop into receiver cylinder, depress locking tab if required.
2. Twist the ball 30° clockwise while lifting slightly until ball drops into position and locking tab snaps in the slot.

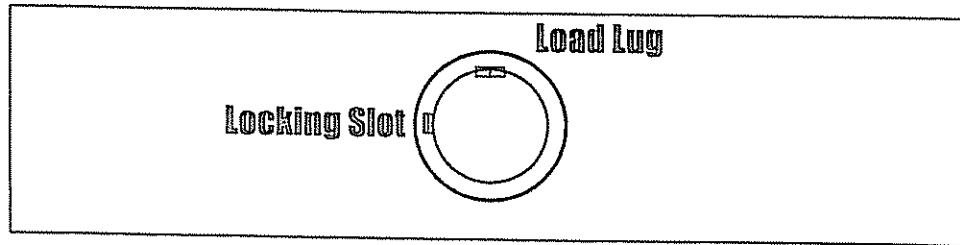
To remove Inverta Ball

1. Push in the locking tab and then lift and rotate the ball assembly counterclockwise. Continue rotating and lifting until the ball stud clears the receiver cylinder.

To store Inverta Ball

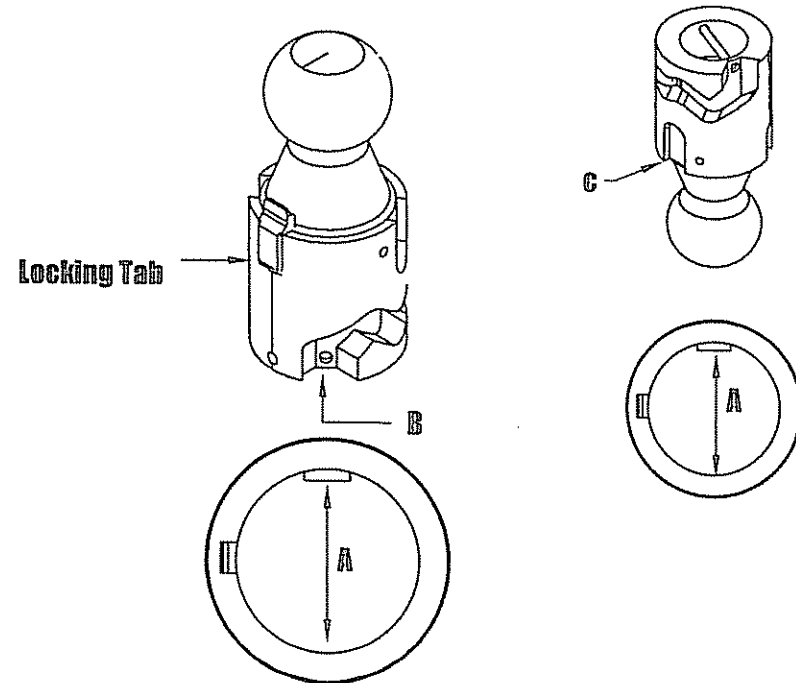
1. Align pin (A) with slot (C) in hitch.
2. Push in the locking tab and let the ball assembly to drop into the receiver cylinder.
3. Pull the ball straight up to remove it.

Front of Vehicle



Install the Cross member with the locking slot toward the driver's side.

The load lug in the cylinder should be toward the cab or front of the vehicle.



DIAMOND HITCH INSTALLATION INSTRUCTIONS
FORD SHORT AND LONG BED Super Duty: 1999 - Present / FSD -2011
SHORT AND LONG BEDS: 1993 -1997 / FSD - 2021

1. Remove the spare tire and release tailpipe from rear hanger.
2. Remove the heat shield from underneath the truck bed.
3. Measure from the rear of the bed along the center of the truck bed:
Long Bed: 48 inches
Short Bed: 44 inches
93-97 Short Bed: 45 inches
93-97 Long Bed: 45 inches
4. Cut a four inch diameter hole in the center using a quality hole saw.
5. Insert 8 -1/2" x 3-1/4" bolts with flat washers on the head into the center 2" x 6" rectangular tube assembly.

Note: Position the rectangular tube with locking slot in the top of cylinder toward the driver side.

6. Install one 1/2" x 6" Z assembly on the 2" x 6" rectangular tube with flange nut. Torque bolts to 75 ft/lbs.
7. Install the 2" x 6" rectangular tube from under the bed, Z assembly toward the passenger side above the tailpipe. Support the 2" x 6" rectangular tube from the top side of the bed.
8. Attach the second 1/2" x 6" Z assembly to the 2"x6" rectangular tube using the bolts inserted in step 5 and 1/2" flange nuts.
9. Install the Fulton Clamps using 2-1/2" x 2" bolts with flat washers and flange nuts. Fulton Clamp is positioned under the Z assembly on the inside of the frame. Leave the bolts loose, torque later.
10. Install the outer L-brackets, round holes to front (requires drilling 1/2" holes in frame).
 Fastener Sequence on L-brackets from inside of the frame outward:
 Round Hole: 1/2" x 1 1/2" bolt, flat washer, frame, L-Bracket, flat washer, flange nut.
 Middle Slot: 1/2" x 2 1/2" bolt, 1/4" Square Washer, frame, 1/2" Spacer, L-bracket, flat washer, flange nut.
 Rear slot: 1/2" x 1 1/2" bolt, 1/4" Square Washer, frame, L-bracket, flat washer, flange nut.
 Horizontal Slot- Driver L-Bracket: 5/16" x 2" bolt, flat washer, frame, brakeline carrier, flat washer, 5/16" Nylok nut.

11. Install 1/2" x 1-1/2" bolts with flat washers and flange nuts into the slots on the Z assembly through the outer L-bracket with nuts facing down.

12. Release 2" x 6" rectangular tube from the upper support.

13. Tighten Bolts to 75 ft-lbs of torque as follows:

Eight - 1/2" x 3-1/4" bolts rectangular tube to the Z assembly.

Four - 1/2" x 2" bolts through the Z assembly to the Fulton Clamp, adjust as needed for frame taper, slide up as far as possible inside of the frame.

Two - 1/2" x 1-1/2" and 2-1/2" x 2-1/2" bolts attaching the outside L-bracket to the truck frame, elevation of the L-bracket flush with the top of the frame.

Four - 1/2" x 1-1/2" bolts attaching the Z assembly to outside L- bracket.

Two - 1/2" x 1-1/2" bolts in the drilled holes on the front of L-bracket.

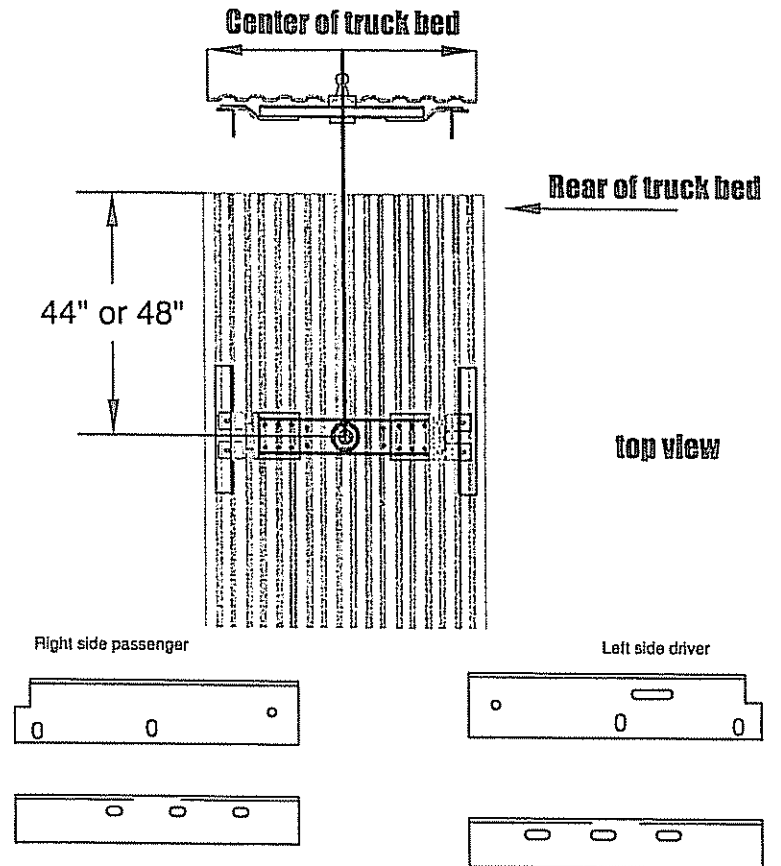
14. Tighten the 5/16" bolt for brakeline carrier.

15. Drill four 1/2" holes upward through the 2"x6" rectangular tube and truck bed for Safety Chain Loops.

16. Install the Safety Chain Loops (U-Bolt) with one spring and nut per leg, lift above bed ~ 1-1/2 inches.

17. Install 1" round tailpipe splice. Cut factory steel rear hanger, install at desired length.

General Installation Procedures



HARDWARE

- 8 1/2" x 3 1/4" Bolts
- 2 1/2" x 2 1/2" Bolts
- 4 1/2" x 2" Bolts
- 8 1/2" x 1 1/2" Bolts
- 1 5/16" x 2" Bolt
- 22 1/2" Flange Nuts
- 4 1/4" Square Washers
- 36 1/2" Flat Washers
- 2 1/2" Square Spacers

