12/26/2013

****DO NOT EXCEED RECOMMENDED VEHICLE TOWING WEIGHT!****

# 60637

**97-03 FORD 1/2 & 3/4 TON LIGHT DUTY TRUCKS**
**04 HERATIGE EDITION**
****OLD BODY STYLE, LONG & SHORT BEDS****
****DOES NOT FIT 1997 W/ AIR BAG OVERLOADS!****

WARNING!! **BRAKE, FUEL, AND ELECTRICAL LINES MAY NEED TO BE LOOSENED OR REPOSITIONED TO PROVIDE CLEARANCE FOR NEW HARDWARE. ALL MODELS REQUIRE MODIFICATION OR REMOVAL OF HEAT SHIELDS. ON SHORT BED MODELS, CHECK FOR ADEQUATE TURNING CLEARANCE BETWEEN THE FRONT OF ALL TRAILERS AND THE TRUCK CAB.**

WARNING!! **ON TWO WHEEL DRIVE TRUCKS A CLEARANCE CHECK MUST BE PERFORMED WHEN TRUCK IS LOADED AND UNLOADED TO VERIFY THE INVERTED BALL WILL NOT INTERFERE WITH THE TOP OF THE DIFFERENTIAL**

## INSTALLATION STEPS

### BEFORE INSTALLING

An overhead lifting device, such as chain falls, engine hoist, or cable come-a-long, can be used to lift the center section of the hitch in place. Lower a loop of rope or chain through the hole in the truck bed floor and attach it to the round hitch receiver tube in the center section. Use the lifting device to raise the center section until the round hitch receiver tube that protrudes from the center section fits in the hole in the truck bed floor. Maintaining upward pressure may facilitate fastening the cross-member to the center section, especially if the truck bed floor has been distorted downward from heavy use. If you use an overhead-lifting device, it should be disconnected before squaring the center section across the frame, installing the sideplates and torquing fasteners.

1) Lower and remove spare tire.

2) Mark the location for the hole in the truck bed. Measure from the tail gate end of the truck bed, by hooking a tape measure over the **back of the truck box** and marking the correct location.**(NOTE: DO NOT MEASURE FROM EDGE OF TAILGATE)** Next, mark the center between the wheel wells. This marks the center point for the drill hole. This hole location is critical for the correct installation of this hitch. Measure, mark, and saw carefully. This location will put the ball 4"-6" in front of the axle.

| | |
|---|---|
| **Short Bed Installation** | **45 7/16"** |
| **Long Bed Installation** | **45 7/16"** |

**NOTE: If truck has a plastic bed liner, you may drill through both, but it is more difficult to accurately locate the midpoint between the wheel wells, and to keep the bed liner from moving while cutting the hole. Make a 4"(3 5/8" for C-630/C-640) hole at this location using a 4"(or 3 5/8") hole saw, or by making a 4"(or 3 5/8") circle and cutting it out with a saber saw equipped with a metal cutting blade.**

3) Install the front cross arm by sliding it between the truck bed and truck frame on the passenger side. Swing the driver's side into place as shown in **FIGURE 1**, then push the cross arm towards the front of truck.
**(NOTE: HOLES IN THE CROSS ARM MUST BE FACING THE BACK END OF THE TRUCK)**

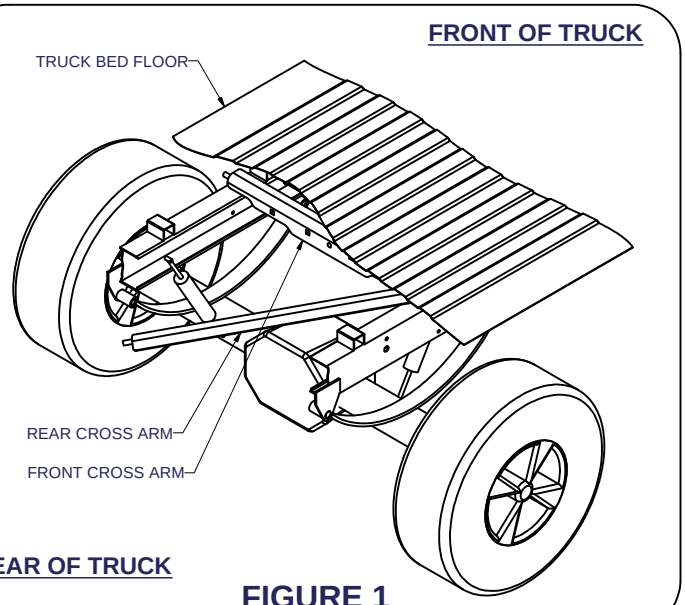



FIGURE 1

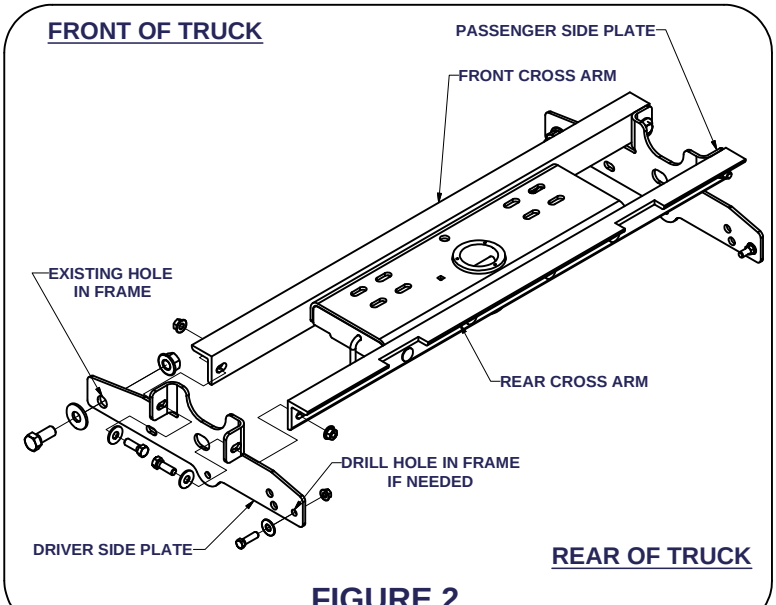



FIGURE 2

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## Installation Steps Continued

4) Install the rear cross arm by sliding it between the truck frame and truck bed on the passenger side. Swing the driver's side into place as shown in Figure 1, then push the cross arm towards the back of the truck.
(NOTE: HOLES IN THE CROSS ARM MUST BE FACING THE FRONT END OF THE TRUCK)

5) Raise the center section in position between the cross arms **with the ball cylinder towards the back of truck.** The round hitch receiver that protrudes from the top of the center section must fit through the hole in the truck bed. Using (8) 1/2" carriage bolts and flange nuts, attach the center section to the front and rear cross arms. **(Finger tight only.)**

6) Square the center section and cross arms across the frame. Place (2) 1/2" x 1 1/2" bolts with flat washers through the back and front flanges of each sideplate into the front and rear cross arms. (As shown in **Figure 2**) **Finger tight** with (2) 1/2" flange nuts. **(REPEAT FOR OTHER SIDE)**

7) Align one front hole and one rear hole on each sideplate to the existing holes in the truck frame. Using (2) 3/4" x 1 3/4" bolt with a flat washer and lock washer attach the front holes of sideplates to the truck frame. (As shown in **Figure 2**) **Finger tight** with a 3/4" nut. Using (2) 7/16" x 1 1/2" bolts, attach the rear most hole of the sideplates to the frame. (As shown in **Figure 2**) **Finger tight only** with a 7/16" flange nut. ****Drilling of this hole may be required on certain models!****

8) With the sideplates installed on both sides, torque all 1/2" fasteners to 110 ft.-lbs, 7/16" fasteners to 70 ft-lbs., and 3/4" fasteners to 380 ft-lbs in the following order:
**First:** Torque the center section to the front and rear cross arms.
**Second:** Torque the sideplate flanges to the front and rear cross arms.
**Third:** Torque the sideplates to the truck frame on both sides.

| Parts List | | | |
|---|---|---|---|
| ITEM | QTY | PART NUMBER | DESCRIPTION |
| 1 | 8 | 1/2-13 x 1 1/2 | CARRIAGE BOLT |
| 2 | 4 | FW12 | FW, 12, ZP |
| 3 | 12 | HFN 1213 | HEX FLANGE NUT |
| 4 | 2 | 7/16-14 | HEX FLANGE NUT |
| 5 | 2 | 7/16-14 x 1 1/2 | HEX BOLT |
| 6 | 2 | 7/16 WASHER | WASHER |
| 7 | 4 | 1/2 - 13 x 1 1/2 | HEX BOLT |
| 8 | 2 | 3/4-10 x 1 3/4 | HEX BOLT |
| 9 | 2 | 3_4 FW | FLAT WASHER |
| 10 | 2 | 3_4 - 10 HFN | HEX FLANGE NUT |

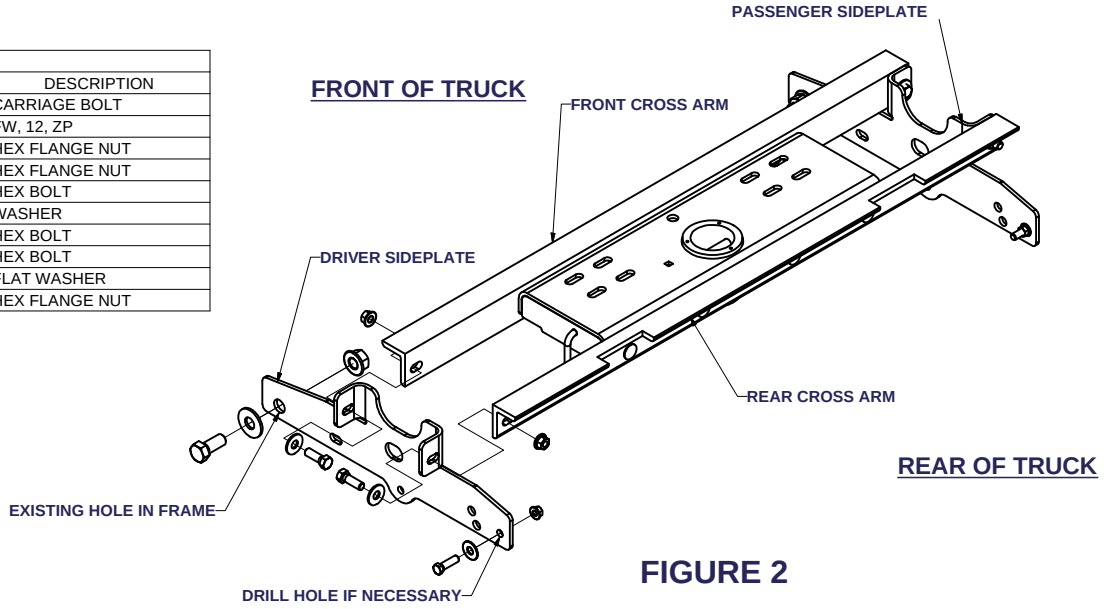



**FIGURE 2**

**(REFER TO GOOSENECK HITCH INSTRUCTIONS FOR INSTALLATION AND OPERATING PROCEDURES)**

**Maintenance (Required every 30 days or prior to use)**

1. Keep hitch ball lubricated regularly. Use silicone spray or equivalent to prevent wear and rust.
2. Keep hitch assembly free of dirt and other foreign debris.
3. Check for proper torque on all nuts and bolts before each use. Also check for excessive wear.
4. Check for ball wear before each use. **(Note: Do not tow trailer with worn or damaged parts.)**

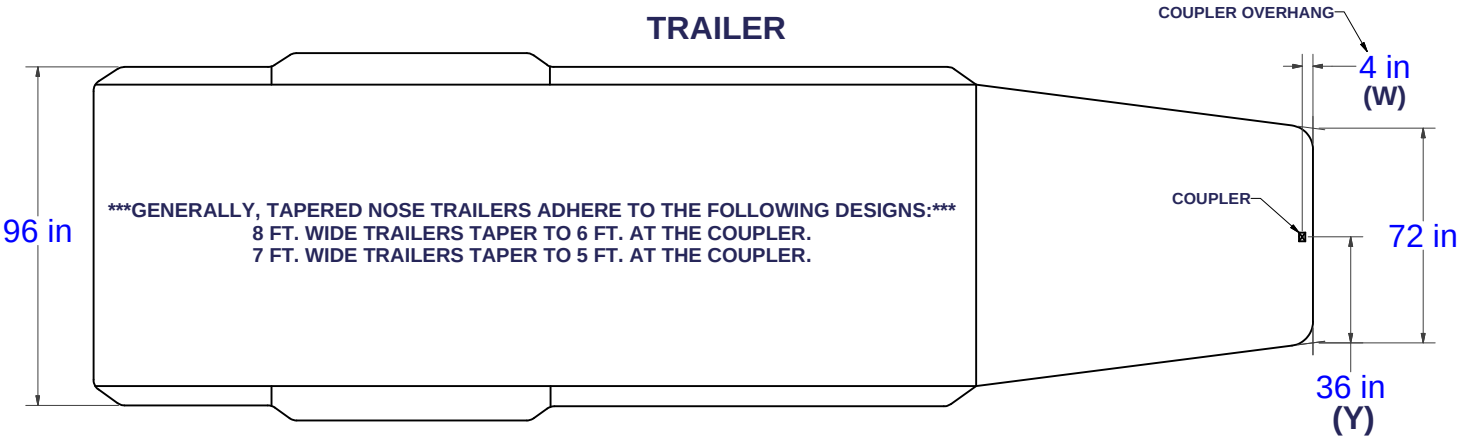
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***DO NOT EXCEED VEHICLE MANUFACTURER'S RECOMMENDED TOWING CAPACITY.***

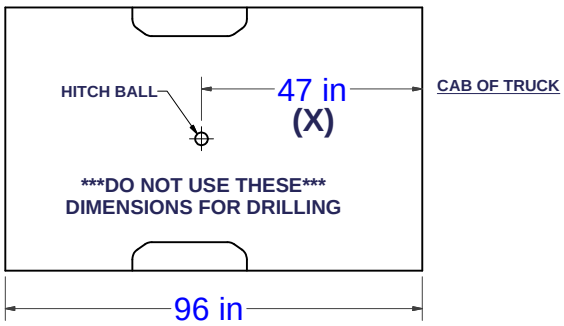
# CAB TO TRAILER CLEARANCE

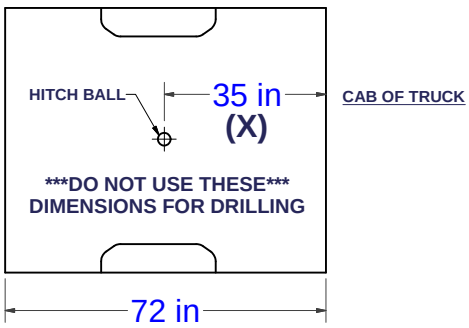
**REMOVAL OF REAR WINDOW ACCESSORIES MAY BE REQUIRED.**

## TRAILER




## LONG & SHORT TRUCK BEDS




## CLEARANCE CALCULATION

(CAB TO BALL CENTER) - 1/2 (TRAILER WIDTH) = (MINIMUM CLEARANCE)
(X) - (Y) = (Z)

IF THERE IS AN OVERHANG FROM THE COUPLER THEN THE EQUATION IS:
[(X) - (W)] - (Y) = (Z)

***IF (Z) IS POSITIVE, TRAILER **WILL NOT** INTERFERE WITH CAB OF TRUCK.***
IF (Z) IS NEGATIVE, TRAILER **WILL** INTERFERE WITH CAB OF TRUCK!!!

**EXAMPLE:**

STANDARD TRAILER
X - Y = Z
35 - 36 = -1
(TRAILER **WILL INTERFERE** WITH CAB)

TRAILER WITH OVERHANG
[(X) - (W)] - Y = Z
[35 - 4] - 36 = -5
(TRAILER **WILL INTERFERE** WITH CAB)

**YOUR CALCULATION:**

(CAB TO BALL CENTER) _____
(COUPLER OVERHANG) – _____
1/2 (TRAILER WIDTH) – _____
(MINIMUM CLEARANCE) = _____

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