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

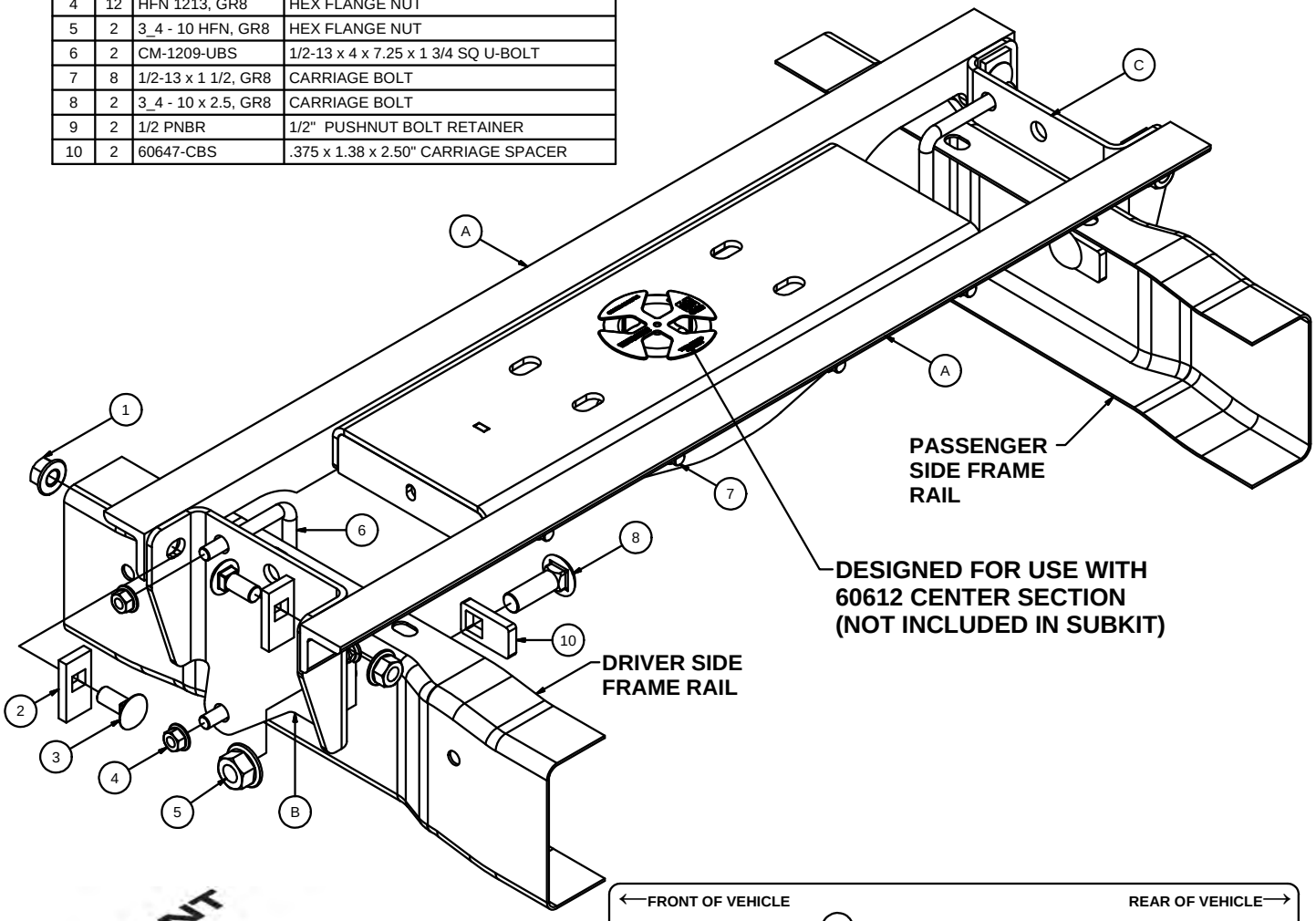
60647 SUBKIT FORD F-250, F-350

10/3/2017

WARNING!! **BRAKE, FUEL, AND ELECTRICAL LINES MAY NEED TO BE LOOSENED OR REPOSITIONED TO PROVIDE CLEARANCE FOR NEW HARDWARE. SOME MODELS MAY 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. 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**

Hardware			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	5/8-11	HEX FLANGE NUT
2	4	CM-SP9	.375 x 1.25 x 2.50" SQUARE HOLE SPACER
3	4	5/8-11 x 1 1_2, GR8	CARRIAGE BOLT
4	12	HFN 1213, GR8	HEX FLANGE NUT
5	2	3_4 - 10 HFN, GR8	HEX FLANGE NUT
6	2	CM-1209-UBS	1/2-13 x 4 x 7.25 x 1 3/4 SQ U-BOLT
7	8	1/2-13 x 1 1/2, GR8	CARRIAGE BOLT
8	2	3_4 - 10 x 2.5, GR8	CARRIAGE BOLT
9	2	1/2 PNBR	1/2" PUSHNUT BOLT RETAINER
10	2	60647-CBS	.375 x 1.38 x 2.50" CARRIAGE SPACER

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
A	2	60647-CA	2.00 x 2.00 x .375" CROSS ARM
B	1	60647-DSWA	WELDMENT ASSEMBLY
C	1	60647-PSWA	WELDMENT ASSEMBLY





SUBKIT WEIGHT: 49 LBS.

INSTALL TIME

PROFESSIONAL: 45 MINUTES

NOVICE (DIY): 90 MINUTES

INSTALL NOTES:
- NO MEASURING DRILL LOCATIONS
- NO DRILLING INTO FRAME
- NO LOWERING EXHAUST
- REMOVE HEAT SHEILD

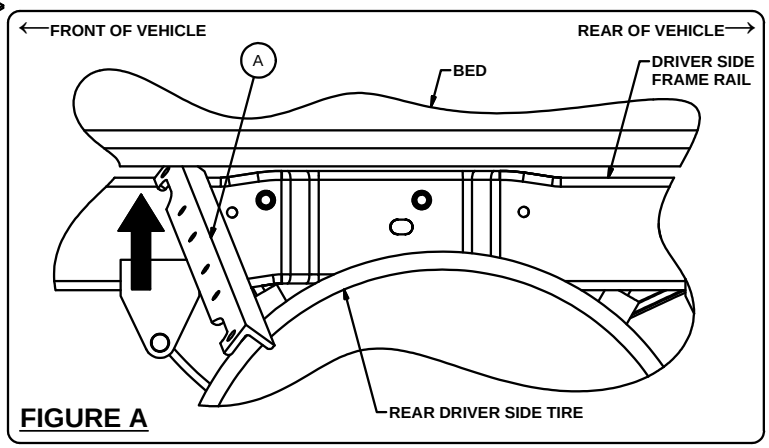


FIGURE A

PERIODICALLY CHECK THIS GOOSENECK HITCH TO ENSURE THAT ALL FASTENERS ARE TIGHT AND THAT ALL STRUCTURAL COMPONENTS ARE SOUND.

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INSTALLATION STEPS:

1. Temporarily remove spare tire.

2. Peel off heat shield which is located under the truck bed above the rear axle.

3. Insert cross arms (A) between the truck bed and frame. The cross arms will be inserted from the outside of the truck in front of the rear tire over the low point on the frame. Insert the first cross arm with the holes facing the front of the truck, as shown in **FIGURE A**. Once it is partially inserted, guide it the rest of the way from underneath the truck. It should span the frame rails and be behind the shock mount bracket on the passenger side. Slide this cross arm as far rearward as possilbe. Insert the second cross arm in the same manner as the first only positioned so the holes now face the rear of the truck. Do not slide this cross arm rearward yet.

4. Raise the center section into position between the cross arms. **OPTIONAL:** Two pushnut bolt retainers (11) are included to give a "helping hand" to the installation process. If desired, put two 1/2" x 1 1/2" carriage bolts (3) in through the centermost slots on the same side of the center section. Be sure the serrations in the bolt retainers are angled away from the center section and push a bolt retainer onto the two carriage bolts. Use one of the included spacers as a tool to push the bolt retainers into position, see **FIGURE C**.

   NOTE: The handle for the gooseneck will come out on the side which the handle guides are located in the center section. Driver side handle placement is shown above, see **FIGURE B**. Slide the cross arms to the center section and rotate them into position. The legs of the cross arms with the holes should be against the center section. Attach the cross arms to the center section using eight 1/2" x 1 1/2" carriage bolts (7) and eight 1/2" flange nuts (4). Insert the carriage bolts in through the center and out the cross arms and finger tighten only.

Installation steps continued on page 3

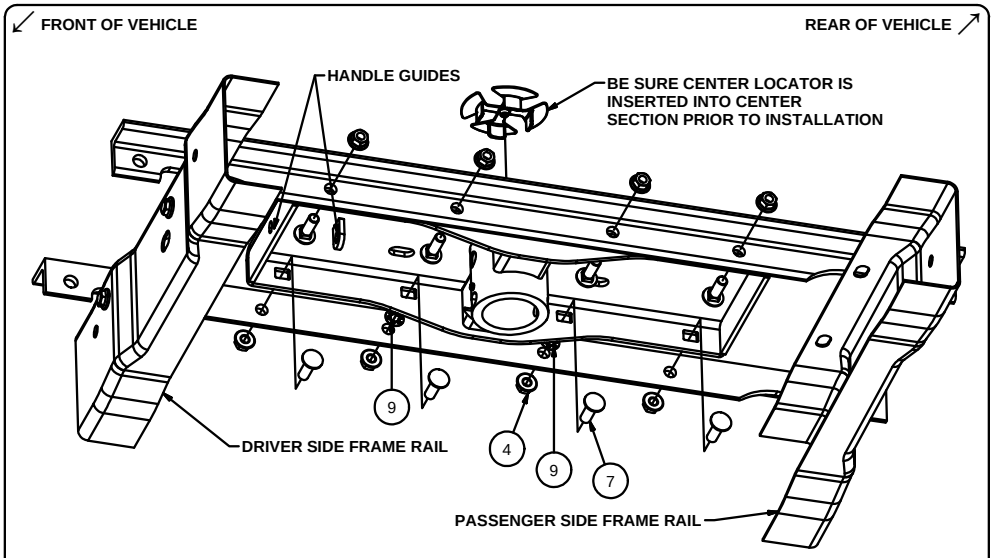
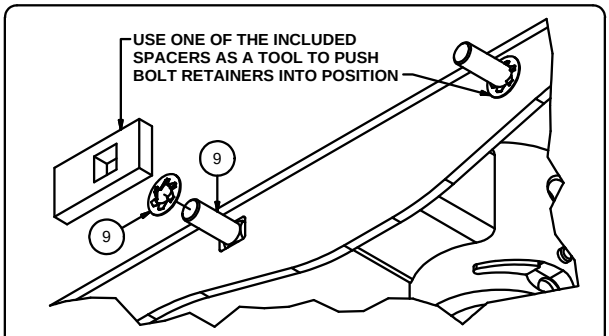


FIGURE B



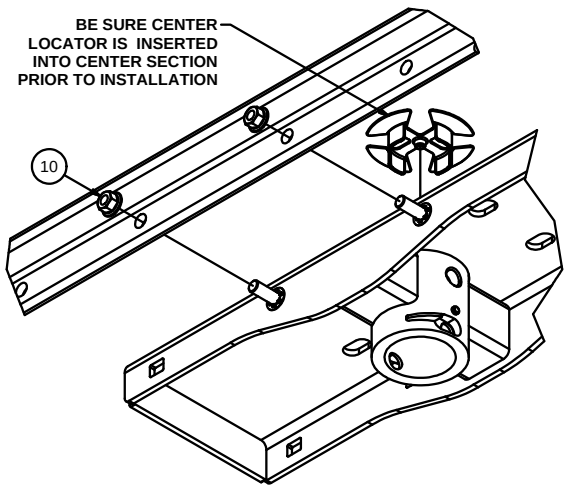


FIGURE C (OPTIONAL "HELPING HAND")

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60647 SUBKIT

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Installation steps continued

5. If the emergency brake cable is attached to the outside of the frame rail, remove the bracket and reverse the bolt so the head of the bolt is toward the outside of the vehicle. Loosely attach driver side plate (B) to frame, see **PAGE 1**. Hold the side plates against the frame and adjust the placement of the cross arms as needed. Attach driver side plate by inserting 3/4" x 2 1/2" carriage bolt (8) with spacer (9) in though the frame and out the plate and attach with 3/4" flange nut (5). Install the square U-bolt (6) onto the frame rail and through the side plate and attach with 1/2" flange nuts (4).

6. Loosely attach the side plates (C) by placing the square U-bolt (6) over the frame, throught the plate and attach with 1/2" flange nuts (2). Insert 3/4" carriage bolt (8) with spacer (9) though the inside of the frame and out the side plate and attach with 3/4" flange nut (5).

7. Loosely attach the side plates to the cross arms by inserting the two 5/8" x 1 1/2" carriage bolts (3) with spacers (2) in through the plate and out the cross arms. Attach with two 5/8" flange nuts (1). Repeat on other side.

8. **NOTE:** Be sure the center section is centered on the vehicle by verifying the sides of the center section are in the same location on bed ribs. Torque all fasteners in the following order: **First:** Torque the center section to the front and rear cross arms. **Second:** Torque the side plates to the truck frame on both sides. **(When torquing the U-bolts, make sure to tighten them slowly alternating between the top and bottom of the U-bolt until equally tightened to maximum of 40 ft-lbs.) Third:** Torque the side plates to the front and rear cross arms. Torque all 3/4" fasteners to 380 ft-lbs, 5/8" fasteners to 210 ft-lbs and 1/2" fasteners to 110 ft-lbs.

(REFER TO 60612 GOOSENECK HITCH INSTRUCTIONS FOR INSTALLATION COMPLETION AND OPERATING PROCEDURES)

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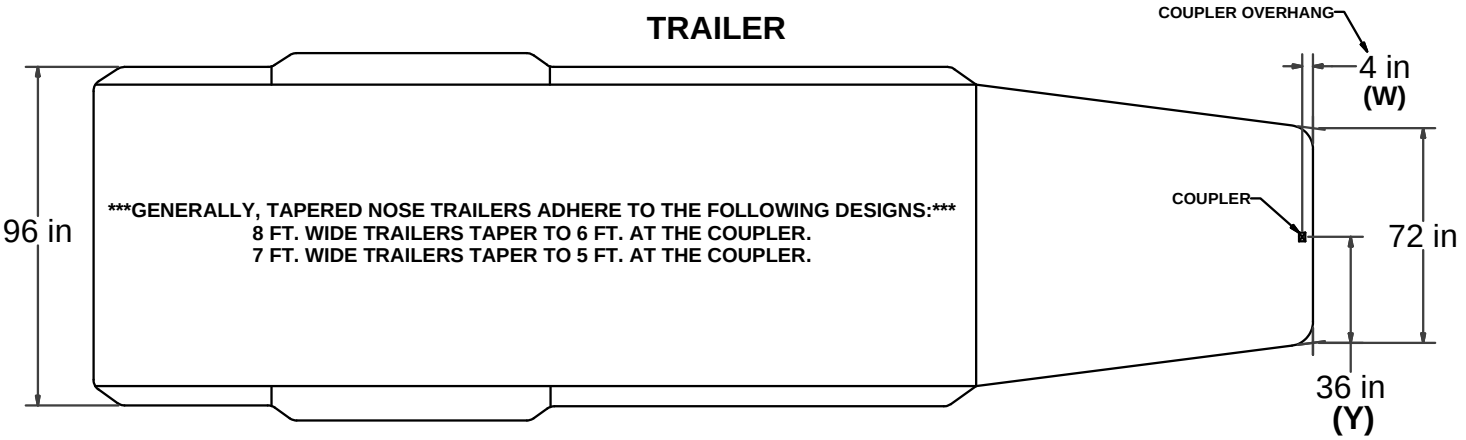
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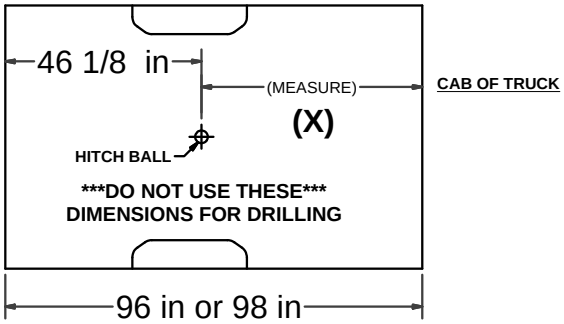
CAB TO TRAILER CLEARANCE

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

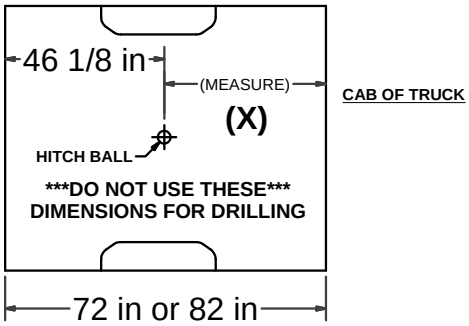
TRAILER



LONG BED



SHORT BED



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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