

C-321 SUBKIT**FORD F-150****30,000 GTW GOOSENECK KIT**

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

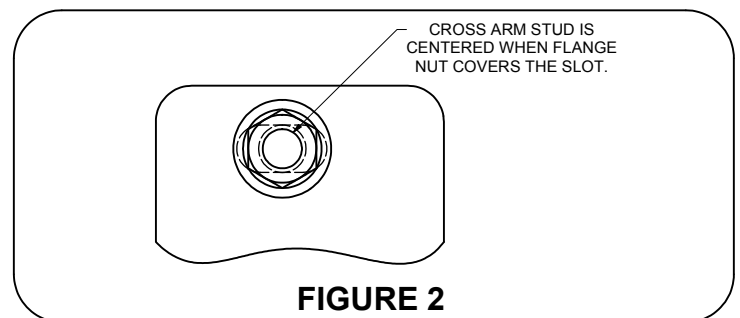
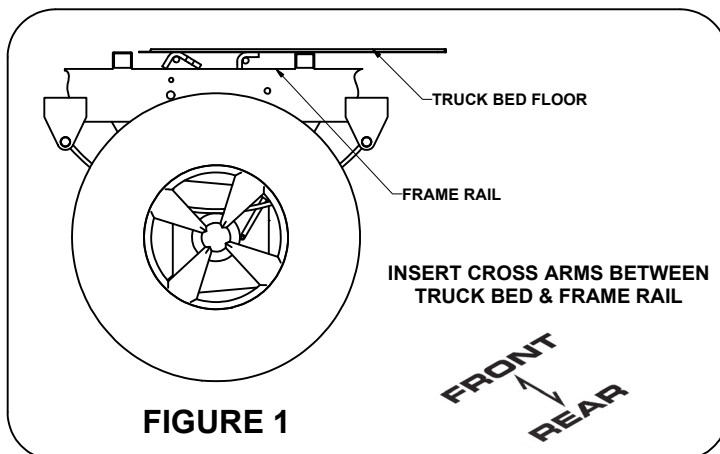
PARTS LIST

- (2) CM-1203-UBS (U-Bolt)
- (2) CM-C641-UB (U-BOLT BUSHING)
- (4) 1/2-13 Flange Nut
- (12) Half Moon Spacer (CM-SP27)
- (1) Tube Spacer (CM-TS)
- (4) 5/8" Flange Nuts

INSTALLATION STEPS

****REMOVE SPARE TIRE FOR INSTALLATION****

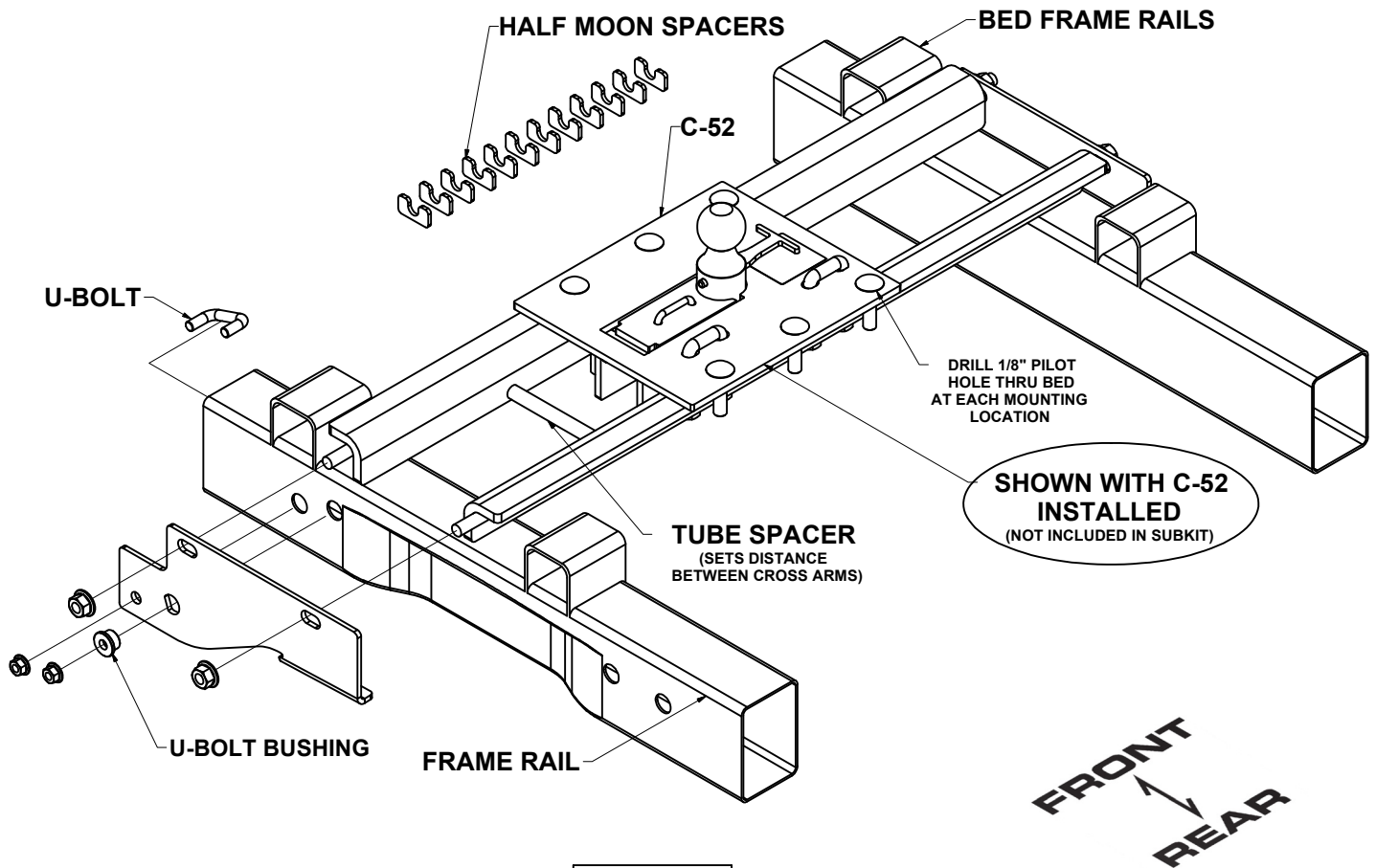
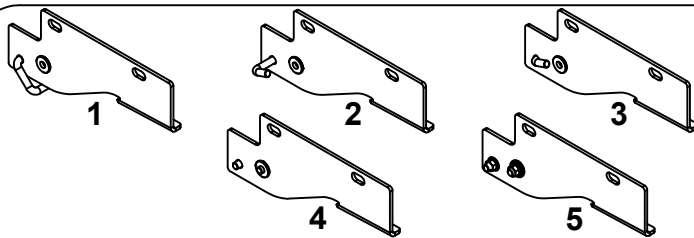
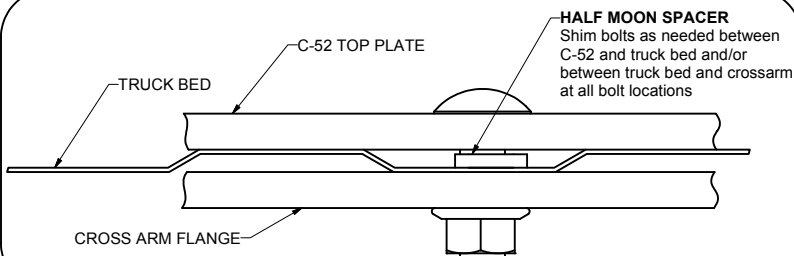
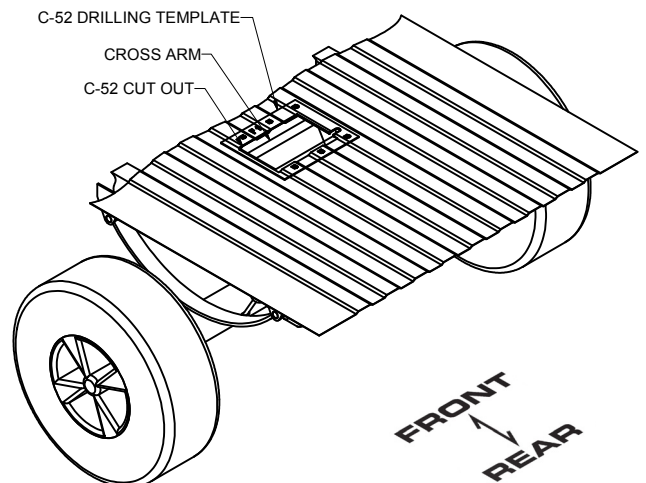
- 1) Install cross arms by sliding them into gap between the truck bed and frame from inside the wheel well. **As shown in Figure 1.**
- 2) **For all applications, the notched side plate indicates that it is for the driver side.** Hang the side plates from 5/8" studs, which extend from the cross arms. Fasten each plate with two 5/8" flange nuts provided. Finger tight only.
- 3) Using the U-Bolt and U-Bolt bushing as shown in **Figure 3** (Page 2), secure each side plate to existing holes in the frame rail. Use 1/2" flange nuts to secure in place. Finger tight only.
- 4) Rotate the cross arms until they contact the truck bed. Center the rear cross arm studs in the side plate slots as shown in **Figure 2.** Use a 15/16" wrench to tighten the 5/8" flange nuts on the rear cross arm to the side plates. Repeat for front cross arm. (Use the tube spacer for correct spacing between the cross arms.)
(Note: Do not tighten cross arms until center section installation is complete.)
- 5) **Be sure the cross arms are vertical to the truck bed before drilling!** With cross arms secure and evenly spaced, drill a hole through the truck bed at the center of each cross arm mounting hole.
- 6) From inside the truck bed, center the six pilot holes with the letter "A" on the C-52 cutting template. Fasten the template to the truck bed with tape. Once fastened, drill four 1/8" pilot holes through section lettered "B".
(Be sure to check for brake lines and/or fuel lines before drilling.)
- 7) With the pilot holes drilled, use a sabre saw to cut out section "C".
- 8) Remove template and drill out the six pilot holes with a 21/32" drill bit. Set your C-52 folding hitch ball into place.
- 9) Attach the C-52 to the cross arms using six 5/8" carriage bolts and flange nuts. Torque bolts to 210 lb-ft.
(Note: Spacers must be installed at all bolt locations to prevent truck corrugations from collapsing.)
- 10) After the C-52 has been fastened to the cross arms. Torque all 5/8" hardware to 210 lb-ft.
- 11) Torque all 1/2" hardware to 110 lb-ft.



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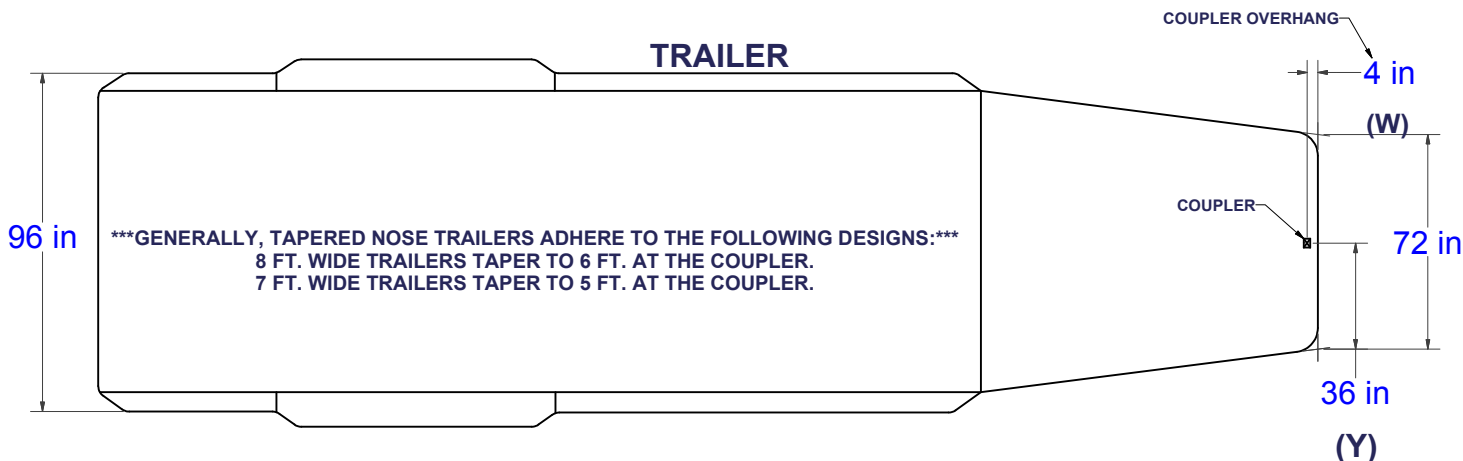
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**FIGURE 3****U-BOLT INSTALLATION STEPS****SHIM BOLTS TO PREVENT TRUCK BED RIBS FROM COLLAPSING**

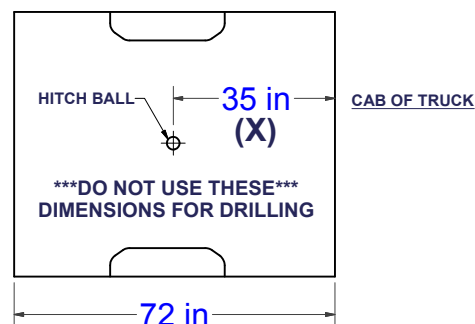
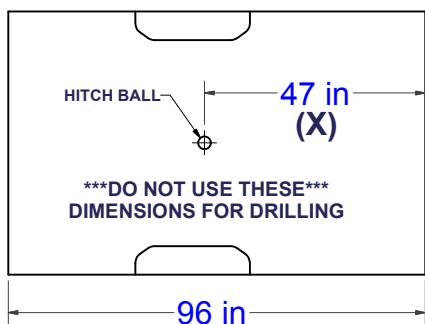
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CAB TO TRAILER CLEARANCE

REMOVAL OF REAR WINDOW ACCESSORIES MAY BE REQUIRED.



LONG & SHORT TRUCK BEDS



WARNING REFERENCE CLEARANCE CALCULATOR BEFORE TOWING

CLEARANCE CALCULATION

$$\begin{matrix} \text{(CAB TO BALL CENTER)} & - & 1/2 \text{ (TRAILER WIDTH)} & = & \text{(MINIMUM CLEARANCE)} \\ \text{(X)} & - & \text{(Y)} & = & \text{(Z)} \end{matrix}$$

IF THERE IS AN OVERHANG FROM THE COUPLER THEN THE EQUATION IS:

$$\begin{matrix} \text{[(X) - (W)]} & - & \text{(Y)} & = & \text{(Z)} \end{matrix}$$

***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

$$\text{[(X) - (W)]} - Y = Z$$

$$[35 - 4] - 36 = -5$$

(TRAILER **WILL INTERFERE** WITH CAB)

YOUR CALCULATION:

$$\text{(CAB TO BALL CENTER)} \quad \underline{\hspace{2cm}}$$

$$\text{(COUPLER OVERHANG)} \quad \underline{\hspace{2cm}}$$

$$1/2 \text{ (TRAILER WIDTH)} \quad \underline{\hspace{2cm}}$$

$$\text{(MINIMUM CLEARANCE)} \quad \underline{\hspace{2cm}}$$



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