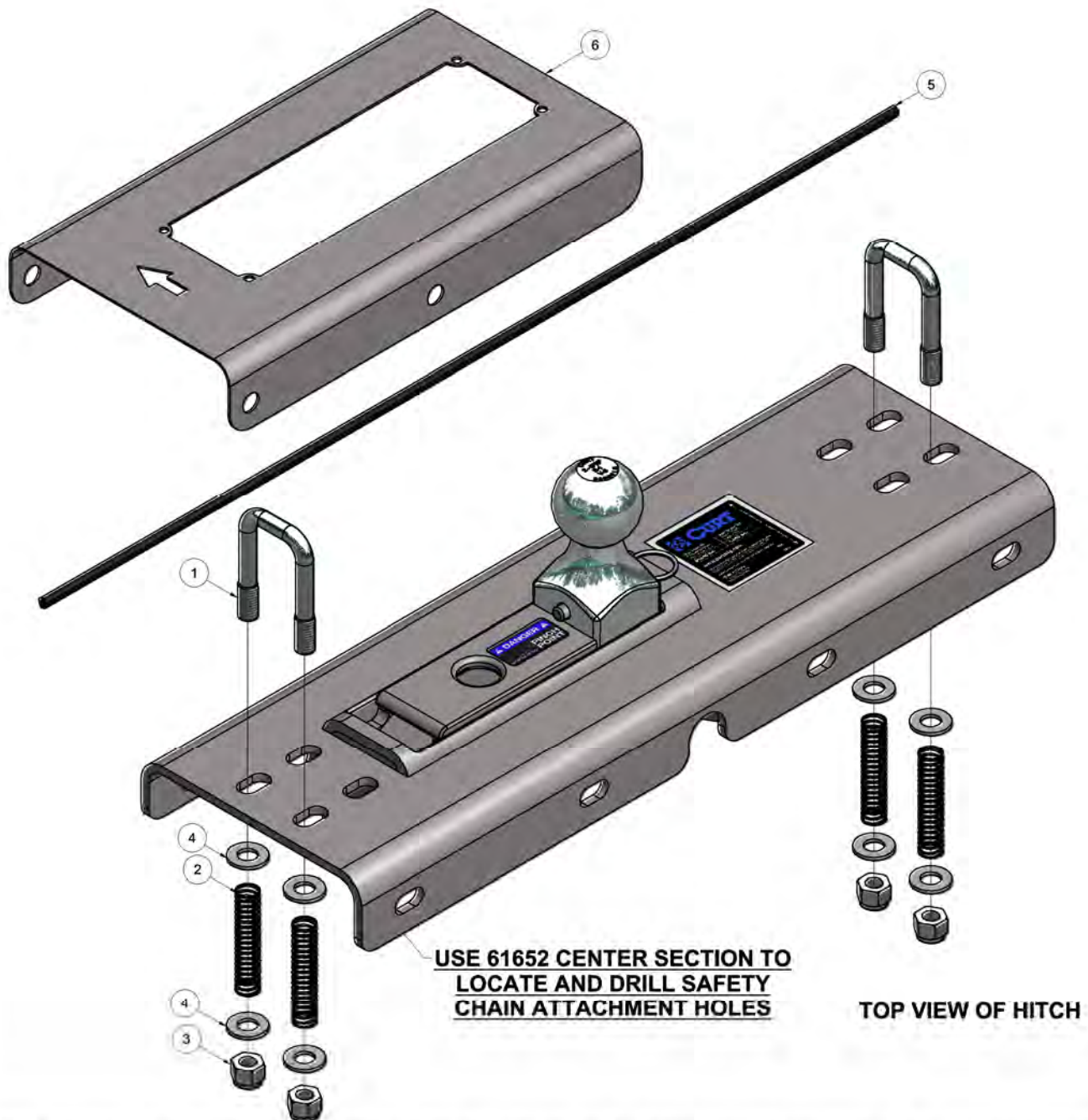
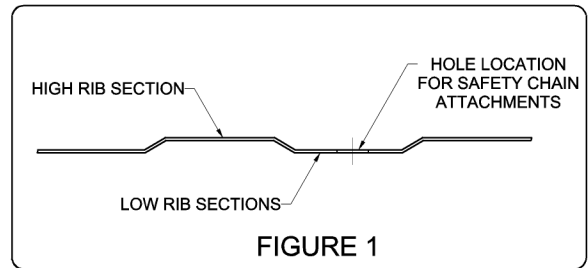


61652

UNDERBED FOLDING BALL GOOSENECK HITCH

5/19/2011

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	CM-C60-CL	2" x 3" SAFETY CHAIN LOOP
2	4	CM-C60-S	5 LB U-BOLT SPRING
3	4	1_2 - 13	NYLOCK HEX NUT
4	8	FW12SAE	FW, 1/2 SAE, ZP
5	1	CM-UE2	.300" U-SHAPED EDGING
6	1	CM-61652-007	16GA. CUT TEMPLATE



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5/19/2011

DO NOT EXCEED YOUR VEHICLE'S RATED TOWING CAPACITY!
(CUTTING OF BED RAIL SUPPORTS MAY BE NECESSARY ON SOME MODELS.)

LOCATION AND FLOOR CUT-OUT

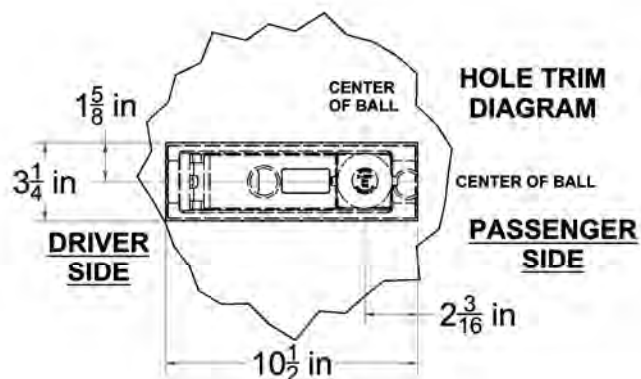
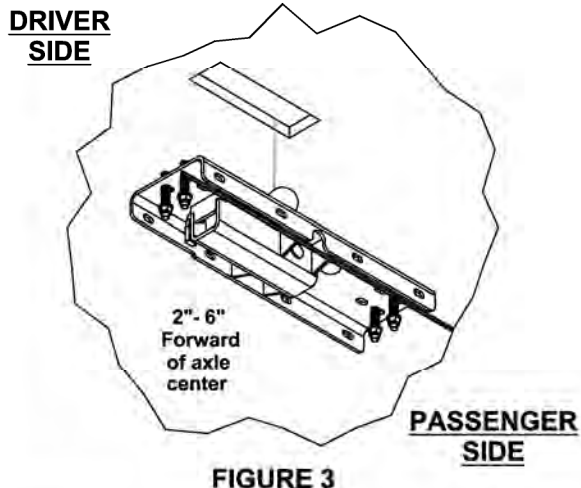
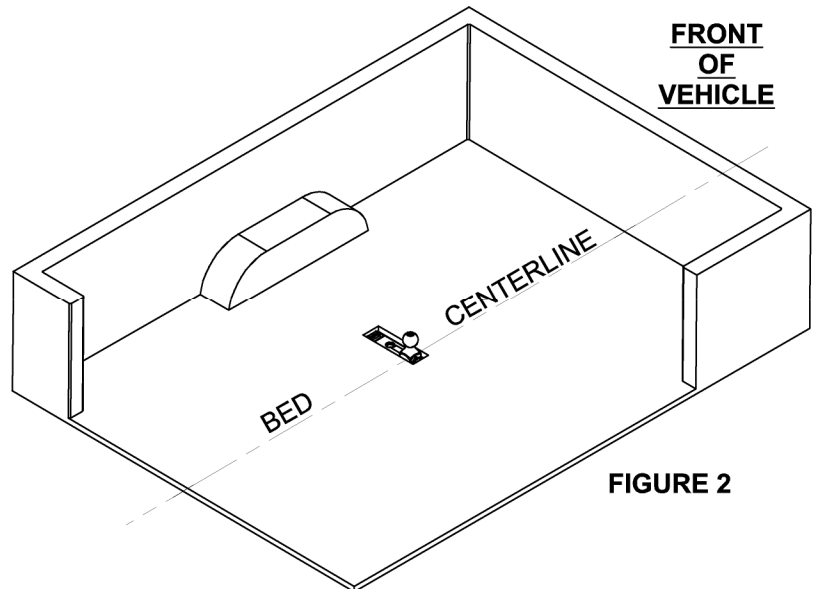
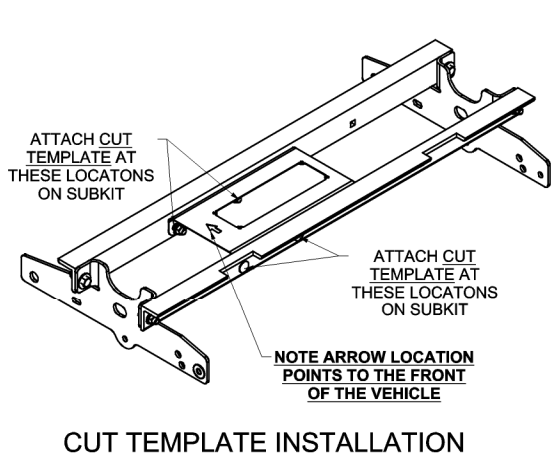
1. The hitch must be centered between the sides of the truck bed about 2"- 6" in front of the rear axle for proper weight distribution (**Figure 2**).

CAUTION: Remember to allow ample clearance between your trailer and the cab corner of the truck when making sharp turns.

2. Install the cut template as shown below. The hitch ball must be centered in the truck bed (**HOLE TRIM DIAGRAM**). Install cut template so the arrow points to the front of the truck, this will position the cut out toward the driver side.
3. Mark the area to be used for mounting the fold-down hitch ball. (**HOLE TRIM DIAGRAM**).

CAUTION: Check cut-out area for gas lines, brake lines, etc. before making cut-out or drilling any holes. It may be necessary to move the assembly, but you must keep the ball centered and 2"- 6" in front of the axle.

4. First, Using a 1/4" drill bit, drill the (4) corners of the template. Next, using a rotary tool or angle grinder cut along the sides of the template hole. Remove the template and finish cutting the bed to remove the center piece.



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Warning!! Carefully examine the location of fuel lines, brake lines, and electrical wires BEFORE INSTALLATION. Brake, fuel, and electrical lines may need to be loosened or repositioned to provide clearance for new hardware. The installation of this hitch may require modification or removal of heat shields. The use of overload springs, air bags, etc. may be required when towing heavy loads.

Installing 61652 Underbed Folding Gooseneck After Cross Arm Sub-kit Installation

- 1) Install rubber edging (CM-UE2) on cut edge for 61652 box, trim excess.
- 2) Position the 61652 over the rear axle and up to the rear cross arm with the box facing the correct direction. Install four 1/2" x 1 3/4" carriage bolts into the 61652 first, then through the rear cross arm and secure with 1/2" flange nuts, finger tighten.
- 3) Attach cross arms to the 61652 and install the 1/2" x 1 3/4" carriage bolts into the cross arms then through the 61652 and secure with 1/2" flange nuts.
- 4) Torque all 1/2" hardware to 75 ft-lbs.

Installing Safety Chain Attachments

- 1) From under the truck, use the 61652 gooseneck as a template to drill four 1/2" holes for the safety chain attachments.
- 2) Using a 1/2" drill bit, drill the center of each slotted hole in the gooseneck. **(Note: Be sure the holes are drilled in the lower rib section of the truck bed as shown in FIGURE 1).**
- 3) From inside the truck box place the two U-bolts (1) through the predrilled holes in the bed of the truck.
- 4) From beneath the truck place a washer (4), a spring (2), second washer (4) and a nylock nut (3) on each of the four U-bolt legs. Tighten the nylock nuts until flush with the bottom of the U-bolt.

Caution!!!

1. Check that all 1/2" hardware has been torqued to 75 ft-lbs (12 - 1/2" Flange Nuts total)
2. Check that all side plate hardware has been torqued. Some hardware listed will not apply to your application.
 - 3/8" to 30 ft-lbs.
 - 1/2" to 75 ft-lbs.
 - 5/8" to 150 ft-lbs.
 - 3/4" to 250 ft-lbs.
 - 1" to 250 ft-lbs.
3. Reattach Brake, Fuel, and Electrical lines so they do not contact any of the added fasteners.

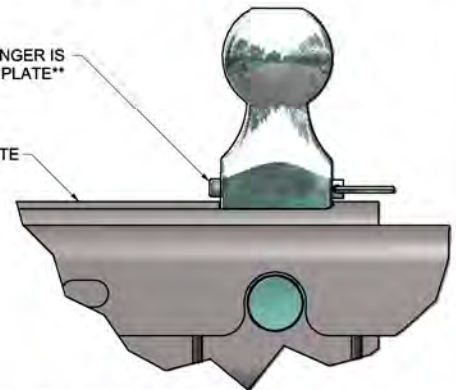
61652 Operation

1. To raise ball into towing position, use hole to lift locking plate. The ball may then be lifted into the raised position by pulling the ring-handle upward.
2. Close the locking plate to lock the ball in place. Note the ring handle will secure the locking plate in position.
3. To fold ball down when not in use, pull the ring handle, lift the locking plate, lower ball down and close locking plate.

Warning!! Do not tow unless the ring pin plunger is fully extended over the locking plate. See diagram below.

****DO NOT TOW UNLESS PLUNGER IS EXTENDED OVER LOCKING PLATE****

LOCKING PLATE



61652 Installation check

1. Set ball in towing position and handle in locked position.
2. Connect the trailer to the hitch ball.
3. Check truck box clearance, there should be a minimum clearance of 6" between the bottom of the trailer overhang and the top of the box sides. Verify clearance between the truck and trailer at cab and box corners.

Maintenance (Required every 30 days or prior to use)

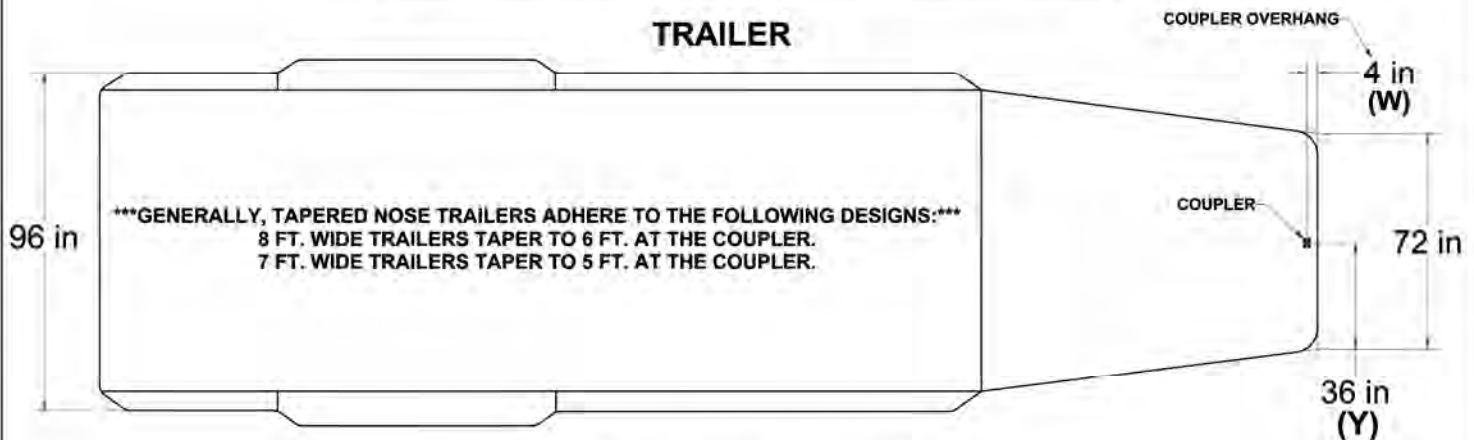
1. Keep hitch ball lubricated regularly. Use silicone spray or equivalent to prevent wear and rust.
2. Keep hitch assembly free of dirt and other foreign debris.
3. Check for proper torque on all nuts and bolts before each use. Also check for excessive wear.
4. Check for ball wear before each use. **(Note: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

DO NOT EXCEED VEHICLE MANUFACTURER'S RECOMMENDED TOWING CAPACITY.

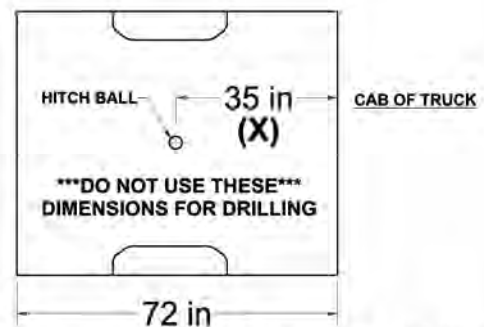
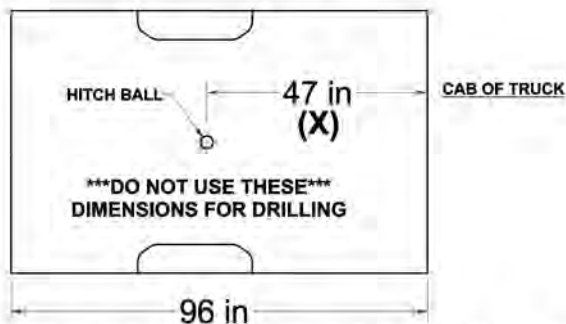
CAB TO TRAILER CLEARANCE

REMOVAL OF REAR WINDOW ACCESSORIES MAY BE REQUIRED.

TRAILER



LONG & SHORT TRUCK BEDS



**** WARNING REFERENCE CLEARANCE CALCULATOR BEFORE TOWING ****

CLEARANCE CALCULATION

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

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

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

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:

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

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

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

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

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