



CURTTM

The **FIRST** Name
in Towing ProductsTM

DOUBLE LOCK GOOSENECK

INSTRUCTION MANUAL



Installer: Read and understand this manual. Fully instruct and demonstrate the operation of this gooseneck hitch to the end user. Include the importance of observing all warnings. Provide this manual in its entirety to the end-user.

60607

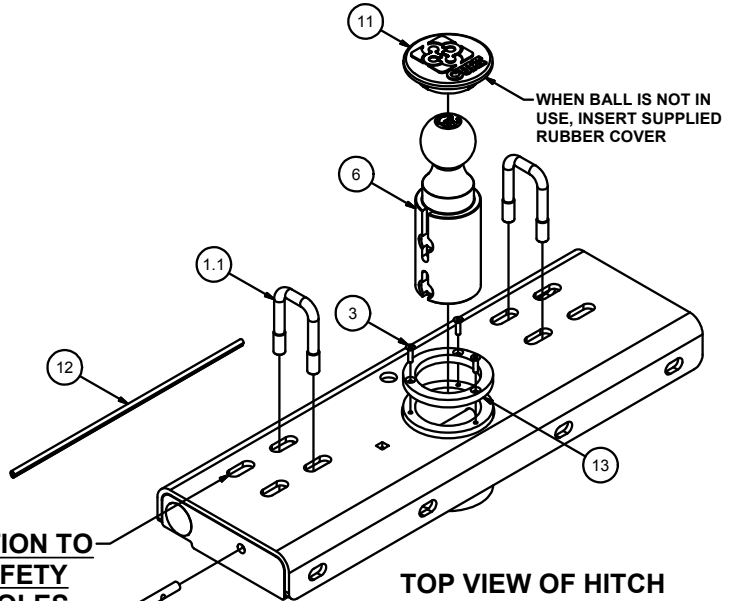
GOOSENECK HITCH

3/13/2017

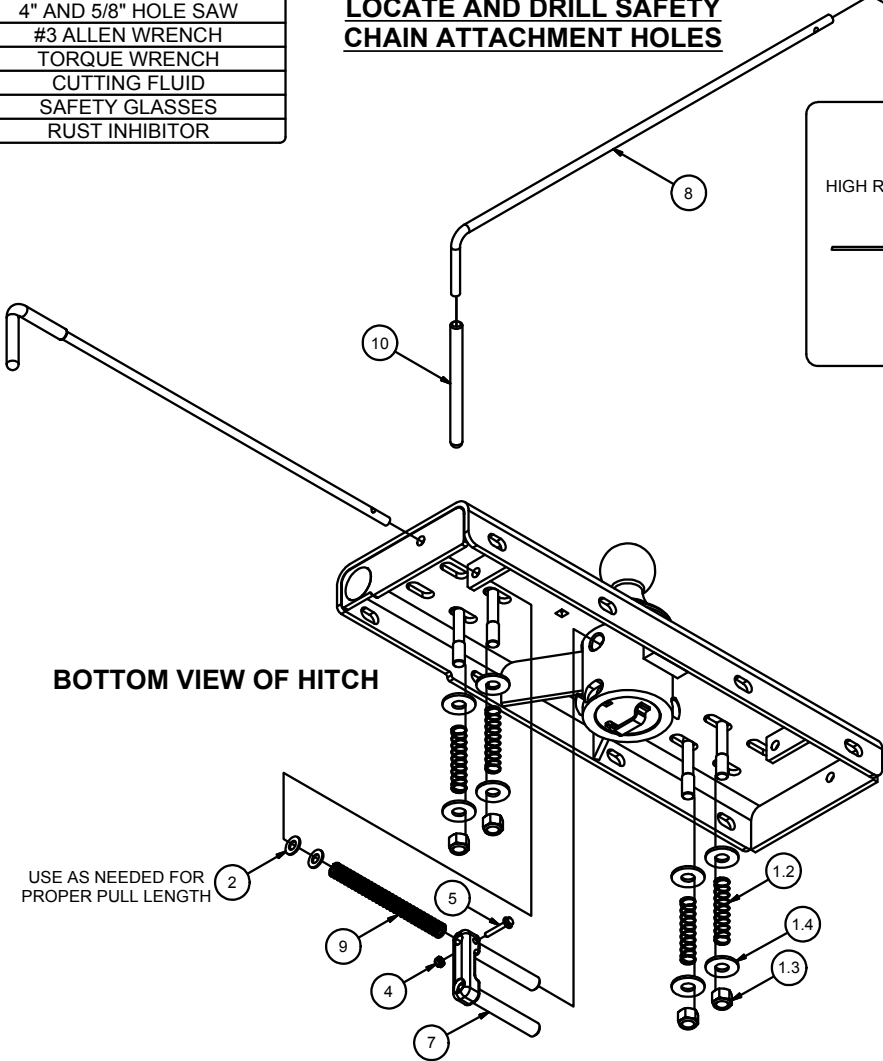
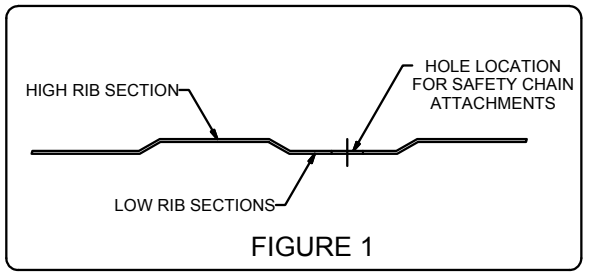
WARNING DO NOT invert ball when carrying heavy loads on 2 wheel drive trucks. The ball may hit the top of the differential, brake lines, or sensors.
(NOTE: Do not invert ball on any Toyota Tundra Models)

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	CM-C60-CLA	SAFETY CHAIN LOOP ASSEMBLY
1.1	1	CM-C60-CL	2" x 3" SAFETY CHAIN LOOP
1.2	2	CM-C60-S	U-BOLT SPRING
1.3	4	30-00011	WASHER, FLAT, 1/2
1.4	2	20-00016	NUT, NYL LOCK, 1/2-13 UNC, GRD5
2	2	3/8" WASHER	WASHER
3	3	#10-32 x 3/4	FLAT HEAD C'SUNK SOCKET CAP SCREW
4	1	#10-24 NYLOCK HEX NUT	NYLOCK HEX NUT
5	1	#10-24 x 1.25 HHFS	HEX HEAD FLANGE SCREW
6	1	CM-C60-B	TURNOVER BALL COMPLETE
7	1	CM-C-600-CLP	CAST LOCK PIN
8	1	CM-C60-R	.375" HANDLE ROD
9	1	CM-C60-CS	7.5 LB COMPRESSION SPRING
10	1	CM-C60-H	VINYL HANDLE GRIP
11	1	CM-C60-RC	RUBBER COVER
12	1	CM-UE1	.300" U-SHAPED EDGING
13	1	CM-C600-CR	3.75 DIA. x .375" CHROME RING

TOOLS REQUIRED
RATCHET
8MM AND 15/16" SOCKETS
8MM WRENCH
DRILL
3/16" DRILL BIT
4" AND 5/8" HOLE SAW
#3 ALLEN WRENCH
TORQUE WRENCH
CUTTING FLUID
SAFETY GLASSES
RUST INHIBITOR



USE 60607 CENTER SECTION TO LOCATE AND DRILL SAFETY CHAIN ATTACHMENT HOLES



U-EDGING INSTALLED AROUND EDGE OF 4" HOLE IN TRUCK BED

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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 60607 Turnover Gooseneck After Cross Arm Sub-kit Installation

- 1) Install rubber edging (CM-UE1) on cut edge for 60607 cylinder, trim excess.
- 2) Position the 60607 over the rear axle and up to the rear cross arm with the cylinder facing the correct direction for the application. Install four 1/2" x 1 3/4" carriage bolts into the 60607 first, then through the rear cross arm and secure with 1/2" flange nuts, finger tighten.
- 3) Move the front cross arm to the 60607 and install the 1/2" x 1 3/4" carriage bolts into the cross arm then through the 60607 and secure with 1/2" flange nuts.
- 4) Torque all 1/2" hardware to 110 ft-lbs.

Installing Safety Chain Attachments

- 1) From under the truck use the 60607 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 (1.1) through the predrilled holes in the bed of the truck.
- 4) From beneath the truck place a washer (1.4), a spring (1.2), a washer (1.4) and a nylock nut (1.3) on each of the four U-bolt legs. Tighten the nylock nuts until flush with the bottom of the U-bolt.

Installing handle / lock

- 1) Insert Locking Pin (7) into the ball cylinder with handle rod hole located on top.
- 2) Slide rubber grip (10) onto handle rod.
- 3) Insert handle rod from outside vehicle, through the hole in the 60607 endplate, and through the rod guide as shown. (Handle rod may be installed on driver side or passenger side, depending on preference).
- 4) Slide the compression spring (9) over handle rod before inserting the handle rod into the locking pin. Insert handle rod into locking pin and secure with #10 screw (5) and nylock nut (4) as shown.
(**Note: Use 1-2 additional 3/8" washers (2) as needed to ensure proper pull length of locking pin.**)

Caution!!!

1. Check that all 1/2" hardware has been torqued to 110 ft-lbs.
2. Check that all side plate hardware has been torqued. Some hardware listed will not apply to your application.
 - 3/8" to 45 ft-lbs.
 - 1/2" to 110 ft-lbs.
 - 9/16" to 150 ft-lbs.
 - 5/8" to 210 ft-lbs.
 - 3/4" to 380 ft-lbs.
3. Re-attach Brake, Fuel, and Electrical lines so they do not contact any of the added fasteners.

60607 Operation

1. Pull the handle out as far as possible and rotate clockwise until the locking pin is disengaged and locked out.
2. Insert ball in the tow position into the cylinder by aligning the ball groove with the cylinder pin. If the groove and pin are not aligned simply rotate ball until the ball drops into place.
3. Rotate handle counter clockwise until locking pin snaps back into position. (Note: Be certain the locking pin passes completely through the ball and securely into the cylinder.)

60607 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)

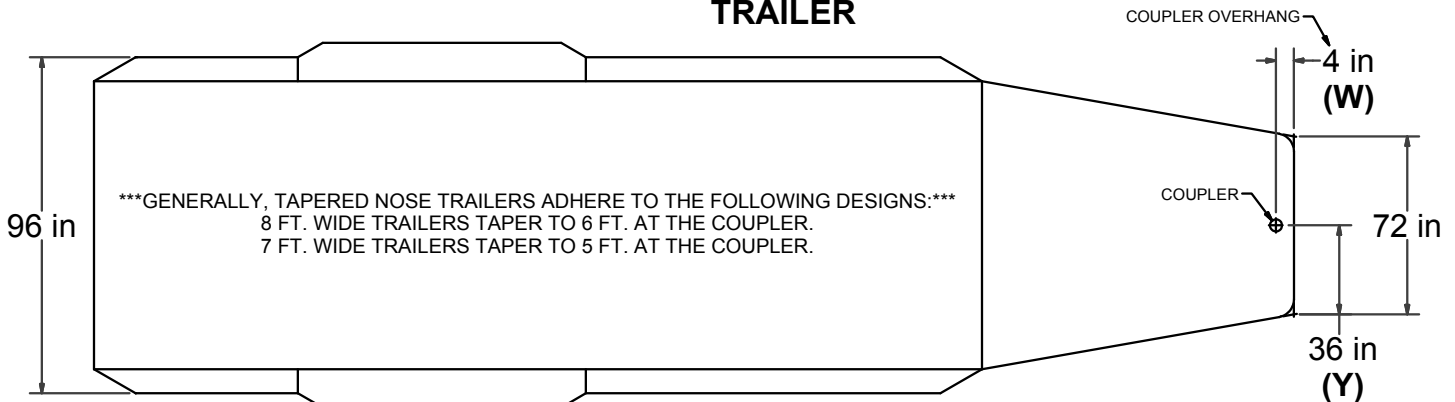
1. Keep hitch ball lubricated regularly. Use silicone spray or equivalent to prevent wear and rust.
2. Keep hitch assembly free of dirt and other foreign debris.
3. Check for proper torque on all nuts and bolts before each use. Also check for excessive wear.
4. Check for ball wear before each use. (**Note: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

DO NOT EXCEED VEHICLE MANUFACTURER'S RECOMMENDED TOWING CAPACITY.

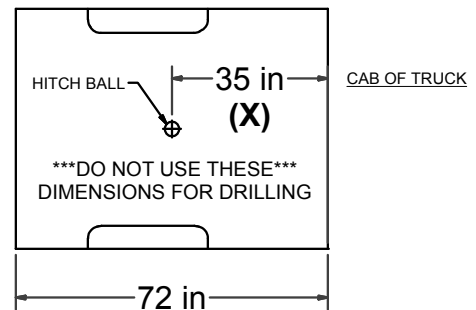
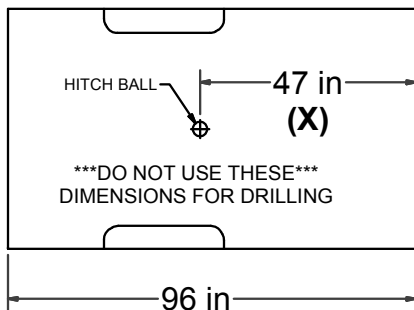
CAB TO TRAILER CLEARANCE

REMOVAL OF REAR WINDOW ACCESSORIES MAY BE REQUIRED.

TRAILER



LONG & SHORT TRUCK BEDS



WARNING REFERENCE CLEARANCE CALCULATOR BEFORE TOWING

CLEARANCE CALCULATION

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

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

$$[(X) - (W)] - (Y) = (Z)$$

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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C-652 SUBKIT

99-07, CHEVY / GMC 1500 & 2500LD SILVERADO / SIERRA CLASSIC BODY ONLY - ALL BEDS
 01-10, CHEVY / GMC 2500HD & 3500 SILVERADO / SIERRA CLASSIC & NEW BODY - ALL BEDS

7/13/2012

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

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

****REMOVE ALL REAR WINDOW ACCESSORIES BEFORE TOWING****

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) Remove spare tire and heat shield. The heat shield under the bed floor needs to be removed or a section cut out for the hitch assembly to be installed. First, remove the heat shield from in front of the back crossmember. Next, remove the heat shield from the back of the crossmember located near the front of the wheel well.
- 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.

1 Ton Installation Long Bed	50 7/8"
Short Bed Installation 1500 & 2500	44 1/4"
Long Bed Installation 1500 & 2500	49 1/2"

IMPORTANT NOTE

If truck bed has a spray on bed liner, Add 1/8" to 3/16" when measuring the location of the center hole.

NOTE: If the 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.

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	CM-1201-UBS	1/2-13 x 4 1/8 x 6 3/4 x 1 1/2 SQ U-BOLT
2	2	CM-1202-UBS	1/2-13 x 4 3/4 x 8 3/4 x 2 SQ U-BOLT
3	12	1/2 - 13 x 1 1/2	HEX BOLT
4	12	1/2"	LOCK WASHER
5	12	FW12	FW, 12, ZP
6	2	3_4 - 10 x 2 1/2 HEX	HEX HEAD BOLT-NC
7	2	3_4 FW	FLAT WASHER
8	2	3_4 - 10 HFN	HEX FLANGE NUT
9	4	HFN 1213	HEX FLANGE NUT
10	4	CM-SP13	2.50 DIA. x .250" ROUND HOLE SPACER
11	2	CM-C652-SP	ROUND HOLE OBOUNDR SPACER
12	1	CM-EBB	ELECTRICAL BOX BRACKET
13	2	CM-11-CTM	CABLE TIE MOUNT 1 X 1 UV BLACK
14	2	CM-116415-CT	CABLE TIE 11/64 X 15" 50# UV BLACK

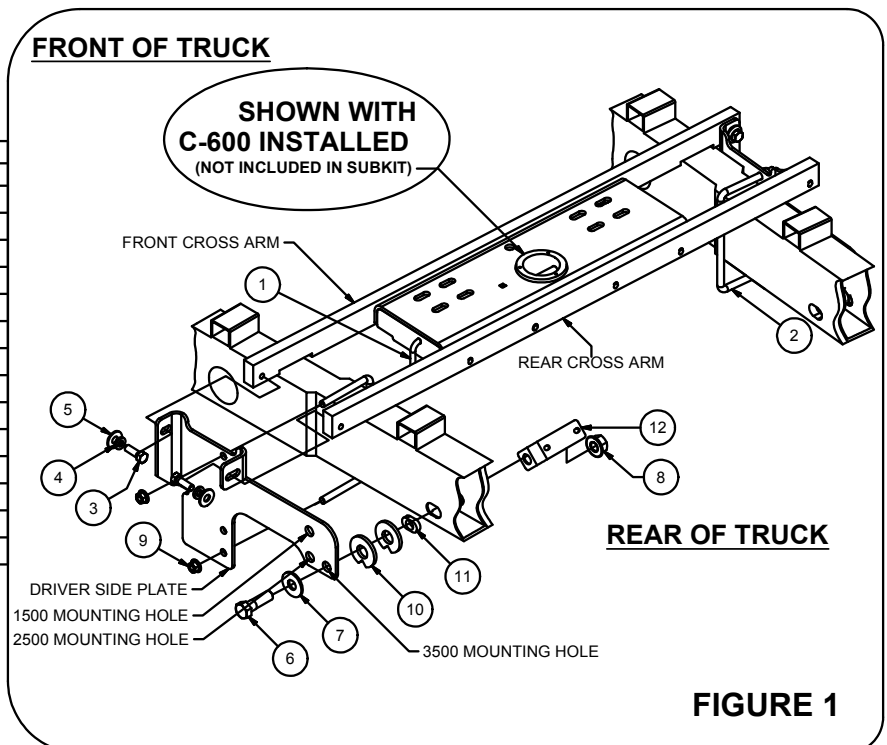


FIGURE 1

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01-10, CHEVY / GMC 2500HD & 3500 SILVERADO / SIERRA CLASSIC & NEW BODY - ALL BEDS

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

INSTALLATION STEPS CONTINUED **REMOVE ALL REAR WINDOW ACCESSORIES BEFORE TOWING**

****NOTE: Before installing crossarms, run a 1/2-13 bolt or 1/2"-13 tap through crossarm holes to remove any powder or debris.****

- 3) Install the rear crossarm by sliding it between the frame and truck bed floor above the passenger side rear tire. After spanning the frames, rotate the cross arm vertically with the holes towards the bottom. **On 1 ton applications**, slide the crossarm through toward the front of the third truck bed rail.
- 4) Install the front crossarm by sliding it between the truck frame and truck bed above the passenger side rear tire. With the crossarm spanning the truck frame, rotate it vertically with the holes towards the bottom.
- 5) Install the center section by carefully raising it above the fuel tank from beneath the truck. Insert four 1/2" x 1 1/2" hex bolts with a washer and lock washer through each of the slots on the inside of the center section, and thread them finger tight into the rear crossarm. Repeat that process for the front crossarm. While installing the center section, be sure that the round hitch cylinder that protrudes from the top of the center section is **positioned towards the rear of the truck** and fit it into the hole in the bed of the truck.
- 6) Install the sideplates with the large holes towards the back of the truck aligning them with the existing slot in the frame. **For '07 and up 2500 & 3500 new body styles:** Remove the electrical box on the inside of the driver side frame and attach it using the supplied electrical box bracket. Attach the bracket to the frame with the 3/4" bolt used to attach the sideplate, using the obround spacers provided to fill the slot in the frame.
- 7) Attach the sideplate flanges to the cross arms using two 1/2" x 1 1/2" hex bolts with 1/2" washers and 1/2" lock washers. Thread them through the inside of the sideplate flanges into the crossarms. **(Finger tight only!)**
- 8) Attach the sideplates to the frame of the truck using a U-bolt and 3/4" hex bolt. **For 3/4 and 1 ton applications**, use the large U-bolt in order to span the truck frame. The smaller U-bolt is used for **1/2 ton and 3/4 ton light duty trucks**. Position the U-bolt from the inside of the truck frame, make sure not to damage or pinch the wiring harness or brake lines. Attach to the sideplate using two 1/2" flange nuts. **(Finger tight only)** Attach the rear section of the sideplate to the frame using a 3/4" hex bolt and 3/4" washer through the sideplate and frame. Finger tighten a 3/4" flange nut to the bolt on the inside of the frame. **For 3/4 and 1 ton heavy duty trucks**, use the bottom hole on the sideplate. **For 1/2 ton and 3/4 ton light duty trucks**, use the top hole on the sideplate. These are called out on **Figure 1**.
- 9) With the sideplates installed on both sides, torque all 1/2" fasteners to 110 ft-lbs, and all 3/4" fasteners to 380 ft-lbs in the following order:
First: Torque the center section to the front and rear crossarms.
Second: Torque the sideplates 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 a maximum of 40 ft-lbs.)**
Third: Torque the sideplate flanges to the front and rear crossarms.
- 10) If desired, trim the side plate u-bolt to provide additional handle rod clearance upon installation completion.

WARNING!

INCORRECT INSTALLATION OF C-600 SAFETY CHAIN U-BOLTS MAY RESULT IN VEHICLE DAMAGE

When installing C-600 safety chain u-bolts, be sure to use the u-bolt slots nearest the C-600 cylinder. This will prevent contact of the safety chain u-bolts with the vehicle fuel tank. Installation of u-bolts in outside slots may result in puncturing of the vehicle fuel tank.

Refer to the C-600 installation instructions for full installation of safety chain u-bolts.

(REFER TO GOOSENECK HITCH INSTRUCTIONS FOR INSTALLATION AND OPERATION PROCEDURES)

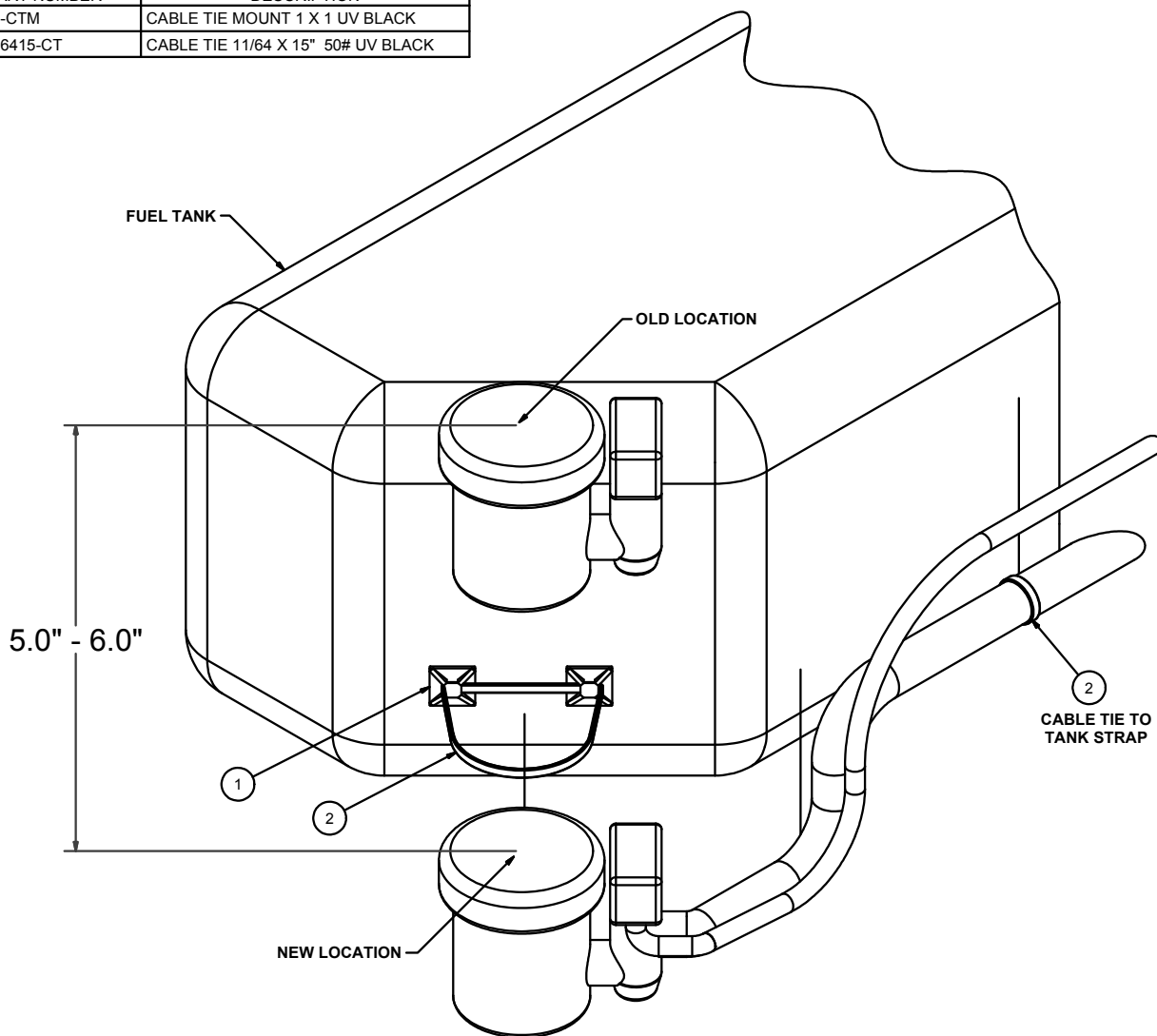
Maintenance (Required every 30 days or prior to use)

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 ball wear before each use. **(Note: Do not tow trailer with worn or damaged parts.)**

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C-34 VACUUM CANISTER RELOCATION

Parts List		
ITEM	PART NUMBER	DESCRIPTION
1	CM-11-CTM	CABLE TIE MOUNT 1 X 1 UV BLACK
2	CM-116415-CT	CABLE TIE 11/64 X 15" 50# UV BLACK



INSTALLATION STEPS

- 1) Remove vacuum canister from OEM mount.
- 2) Clean surface with rubbing alcohol.
- 3) Apply (2) cable tie mounts approximately 3" apart and 5"-6" lower than original location as shown.
- 4) Insert cable tie into mounts. Do Not Fasten.
- 5) Position vacuum canister over cable tie and fasten in new location.

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

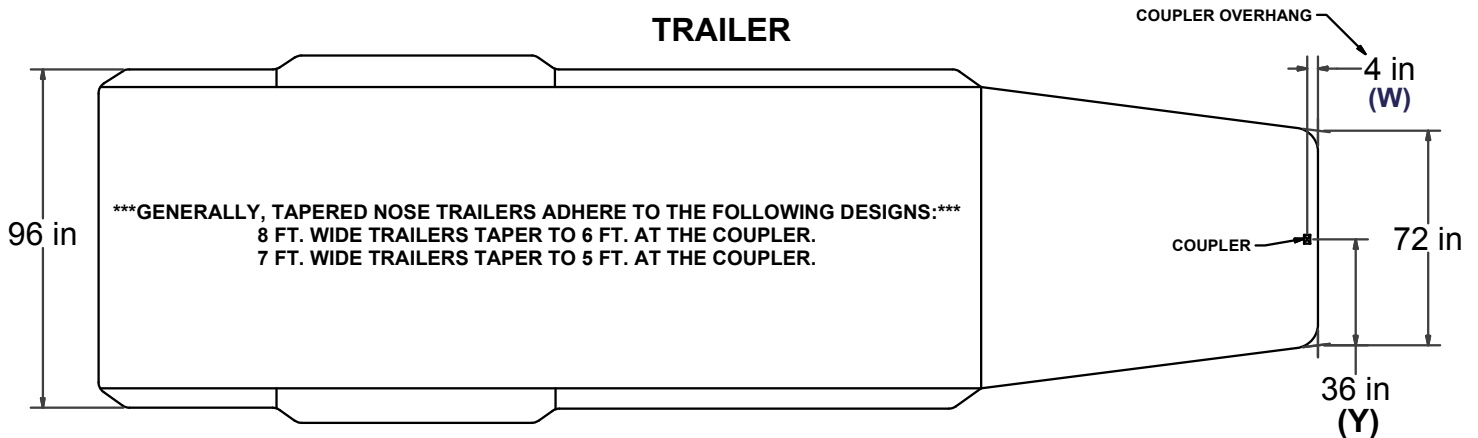
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CAB TO TRAILER CLEARANCE

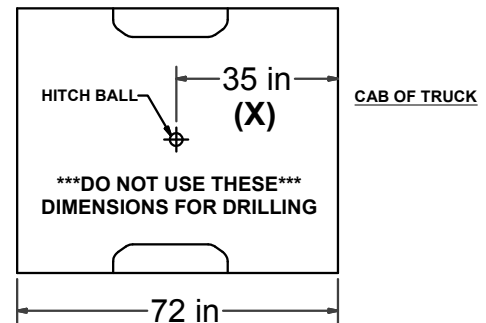
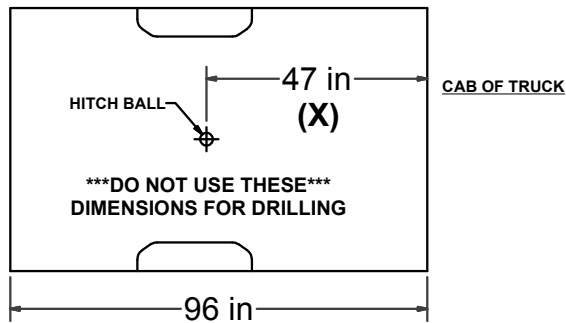
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****REMOVAL OF REAR WINDOW ACCESSORIES MAY BE REQUIRED****

TRAILER



LONG & SHORT TRUCK BEDS



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

CLEARANCE CALCULATION

$$(CAB TO BALL CENTER) - \frac{1}{2} (TRAILER WIDTH) = (MINIMUM CLEARANCE)$$

$$(X) - (Y) = (Z)$$

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) _____