

INSTALLATION MANUAL

60703

Level of Difficulty

Difficult

Installation difficulty levels are based on time and effort involved and may vary depending on the installer level of expertise, condition of the vehicle and proper tools and equipment.

Weight Carrying Capacity

Gross trailer weight (GTW)	40,000 lbs.
Tongue weight (TW)	10,000 lbs.

Hardware List

Item	Qty	Description
1	16	Serrated flange nut, 5/8"-11
2	4	Hex head bolt, 5/8"-11
3	4	Flat washer, 5/8"
4	8	Hex bolt, 9/16"-12 X 1-1/2"
5	8	Serrated conical washer, 9/16"
6	8	Square hole spacer, 9/16"
7	12	Carriage bolt, 5/8"-11 X 1-3/4"
8	4	Spring, U-bolt
9	8	Flat washer, M16
10	2	Square u-bolt, 5/8"
11	4	Lock nut, 5/8"-18
12	1	U-shaped edging, .300"
13	4	Bolt retainer clip
14	4	Round hole spacer
15	4	Hex bolt 9/16"-12 X 2"
16	2	Flat washer, 3/8"
17	1	Hex bolt, 10"-24 X 1-1/4"
18	1	Nylock nut, #10-24
19	1	Compression spring

Tools Required

Ratchet	Center punch
Torque wrench	Eye protection
Socket extensions, 18" total	Hole saw, 4"
Socket set	Cutting fluid
Drill	Rust inhibitor
Wrench, 8mm	Hole saw, 4"
Drill bit, 13/16"	Cutting fluid
Drill bit, 15/16"	Rust inhibitor
Ear protection	--

WARNING

Never exceed the vehicle manufacturer's recommended towing capacity.

Vehicle performance (braking, handling, acceleration, turning radius) can be drastically affected by the trailer. Allow additional time and space for stopping, changing lanes, passing, and turning.

Severe bumps can damage your towing system. Avoid or drive slowly over rough terrain.

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.

Product Photo



NOTICE

Visit www.curtmfg.com for a full-color copy of this instruction manual, as well as helpful videos, guides and much more!

Before you begin installation, read all instructions thoroughly.

Proper tools will improve the quality of installation and reduce the time required.

This installation requires:

- No frame drilling required
- No measuring drilling locations
- No lowering exhaust or spare required

Periodic inspection of the trailer hitch should be performed to ensure all mounting hardware remains tight and structural components are secure.

To help prevent damage to the product or vehicle, refer to the specified torque specifications when securing hardware during the installation process.

Maintenance

Keep gooseneck ball, receiver, and trailer coupler lubricated regularly. Use silicone spray or equivalent to prevent wear/rust.

Keep gooseneck ball, receiver, and trailer coupler free of dirt and other foreign debris.

Failure to maintain your towing system could result in poor performance and/or catastrophic failure.

Product Registration and Warranty

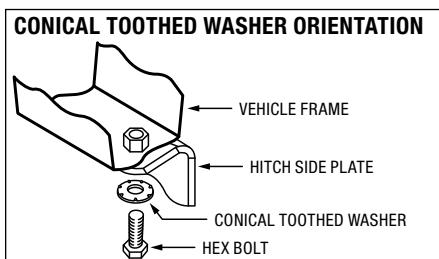
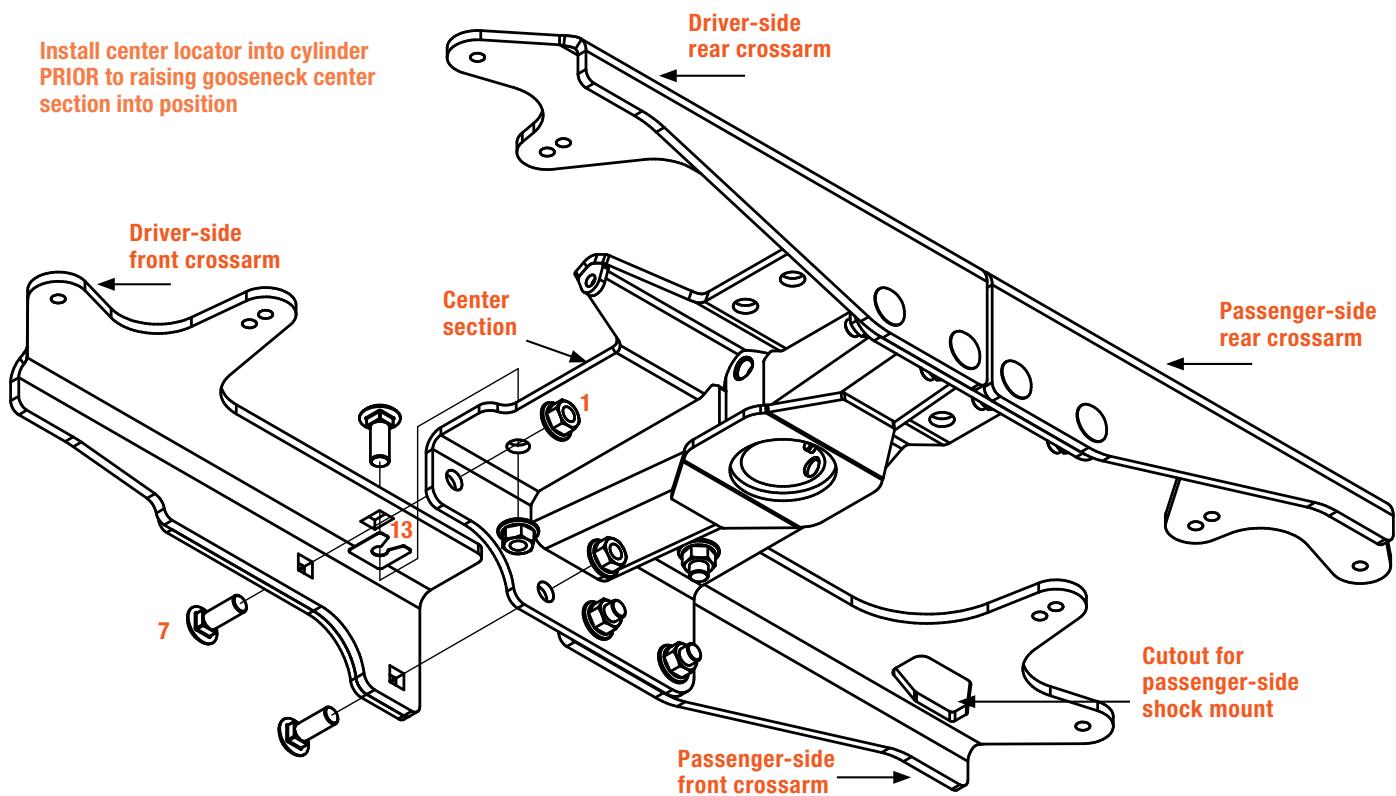
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ASSEMBLY

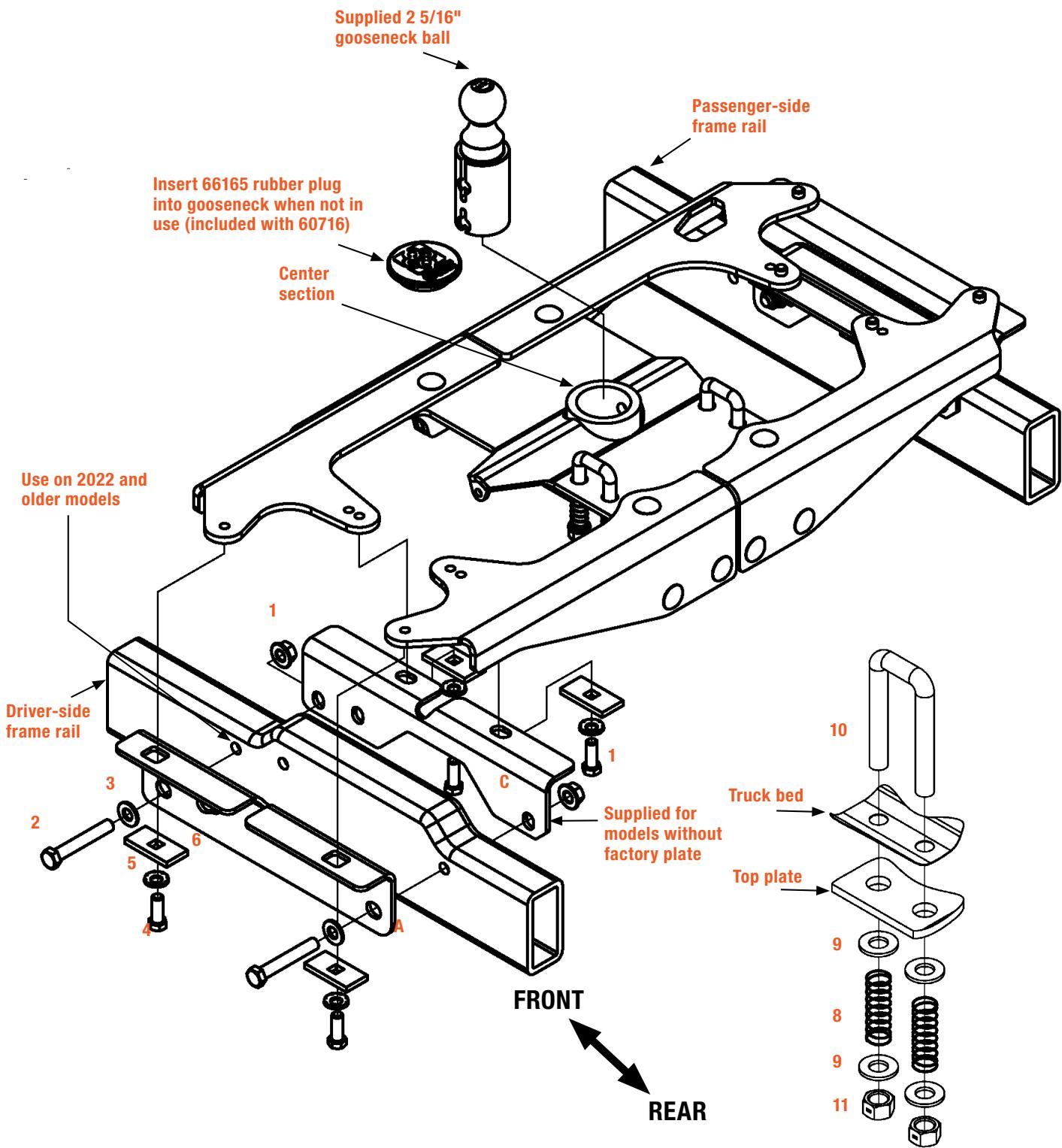
Parts List

Item	Qty	Description
A	1	Outer driver side plate
B	1	Outer passenger side plate
C	1	Inner driver side plate
D	1	Inner passenger side plate
E	1	Driver-side front crossarm
F	1	Passenger-side front crossarm
G	1	Driver-side rear crossarm
H	6	Passenger-side rear crossarm
I	1	Center locator/trim shield
J	1	Center section
K	1	Handle rod
L	1	Rubber cover
M	1	Cast locking pin

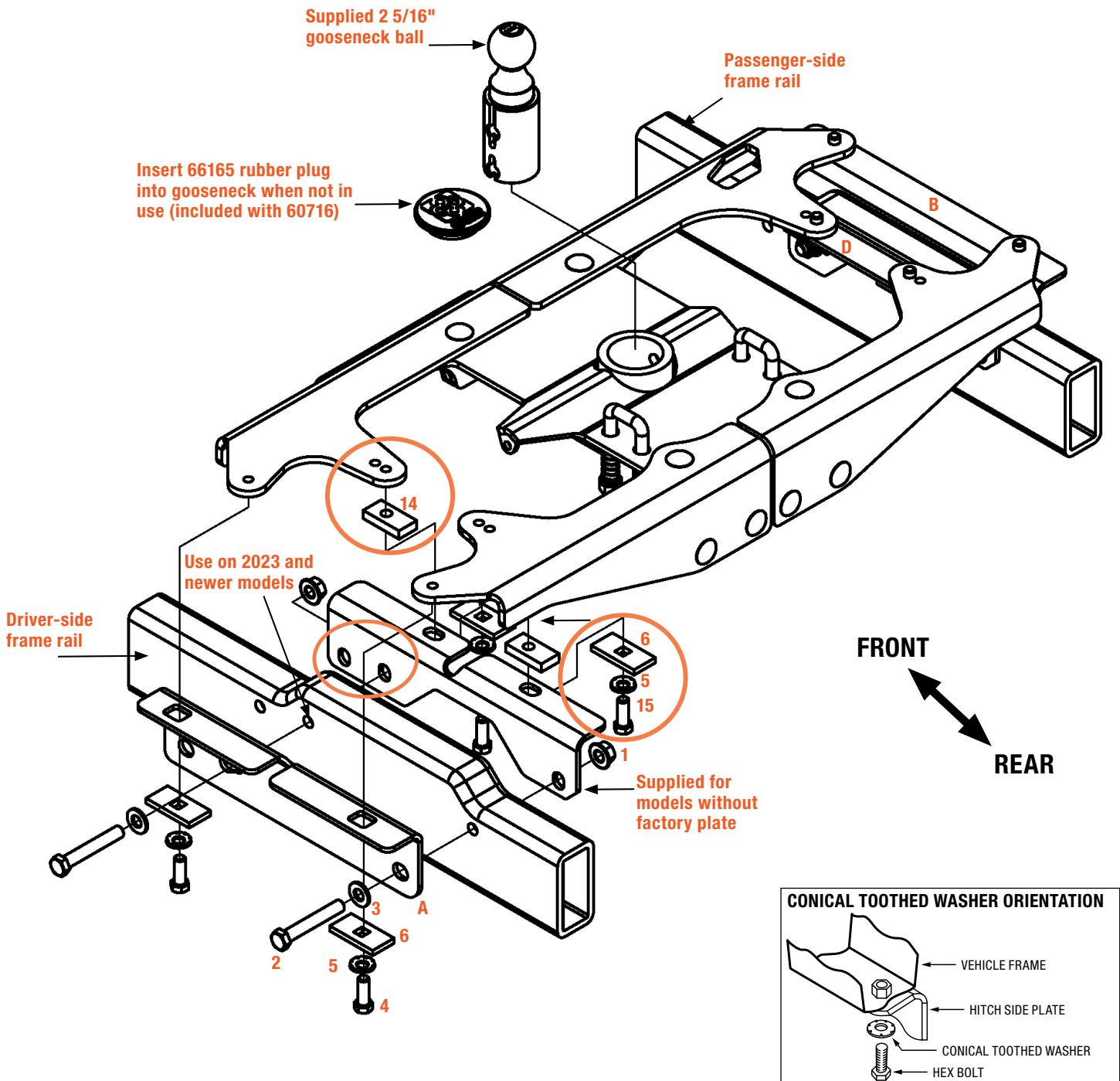
Install center locator into cylinder
PRIOR to raising gooseneck center
section into position



FRONT
REAR



Note: The below diagram is for 2023 and newer models with inner mounting plates welded to the vehicle frame rails. See circled below:



CAB TO TRAILER CLEARANCE

Cab to Trailer Clearance

⚠ WARNING

Do not exceed vehicle manufacturer's recommended towing capacity.

If (Z) is positive, trailer will not interfere with cab of truck.

If (Z) is negative, trailer will interfere with cab of truck.

Example (without overhang from the coupler):

Cab to Ball Center	-	1/2 Trailer Width	=	Minimum Clearance
(X)	-	(Y)	=	(Z)
35	-	36	=	-1

Trailer will interfere with cab because (Z) is negative.

Clearance Calculation (without overhang from coupler)

Cab to Ball Center	-	1/2 Trailer Width	=	Minimum Clearance
(X)	-	(Y)	=	(Z)

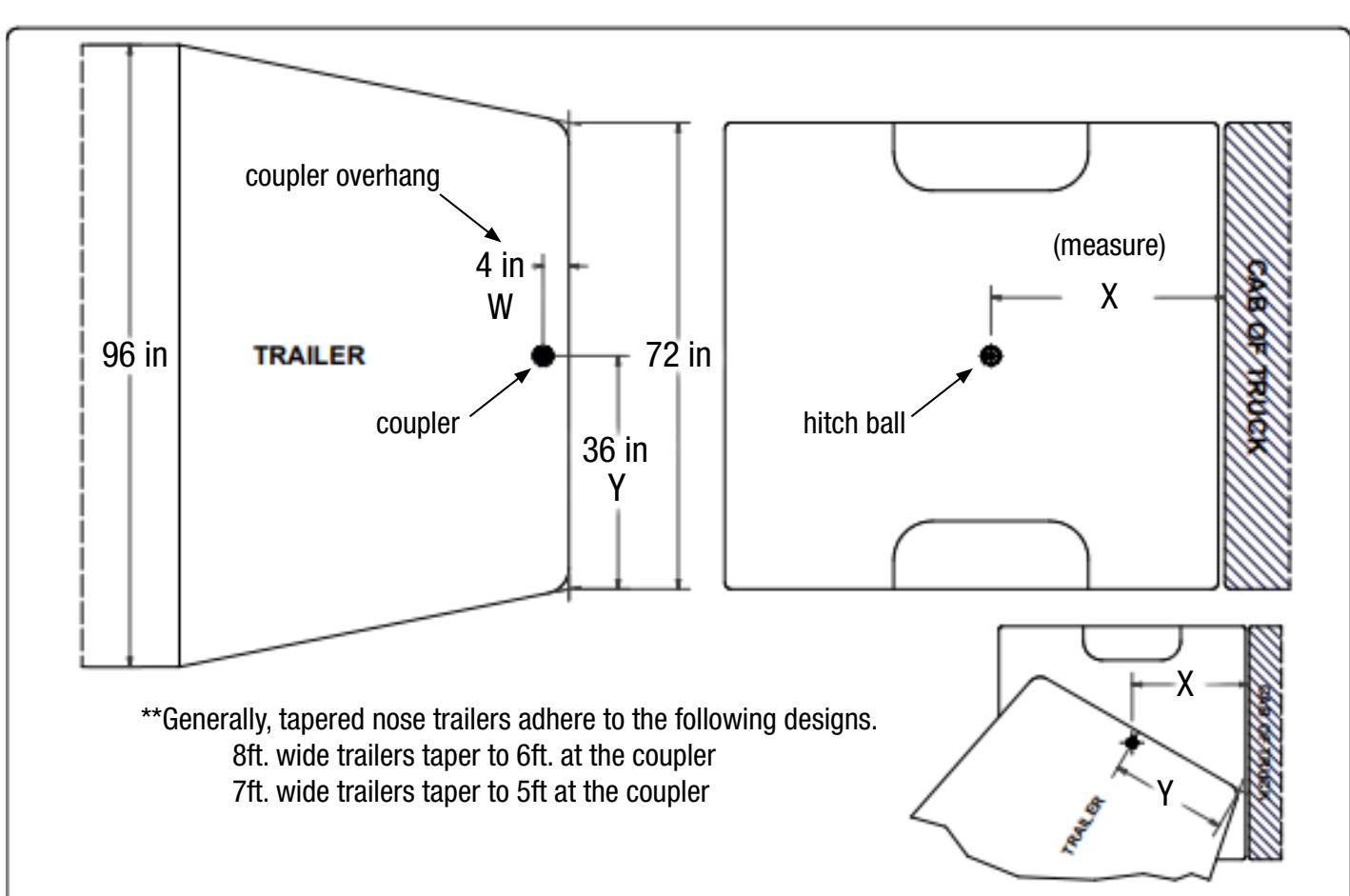
Record Results Here

Clearance Calculation (if there is overhang from the coupler)

Cab to Ball Center	-	1/2 Trailer Width	=	Minimum Clearance
[(X)-(W)]	-	(Y)	=	(Z)

Record Results Here

_____	-	_____	=	_____
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INSTALLATION

Step 1

Removing the spare tire may aid in installation but is not required.

Step 2

From under the truck, loosely install the frame attachment plates to the frame for 2023 and newer with welded inner frame attachment plates.

Step 3

Place (1) 5/8" carriage bolt into the top mounting hole of each center attachment plate and secure with (4) bolt retainer clip. Place the center attachment plates into position. Loosely install the 9/16" hex bolts, conical lock washers and spacers — except for the driver side front center attachment plate. Leave the center attachment plate loose so it can be aligned with the center section. Use round hole spacers with longer 9/16" hex bolts on 2023 and newer models with welded inner plates.

Step 4

Raise the 60716 Center Section (with center locator guide installed) between the drive shaft and the exhaust on the passenger side of the vehicle in front of the rear axle if the spare was not lowered.

Next, slide the driver side front crossarm toward the center of the vehicle to allow the vertical 5/8" carriage bolt to align properly with the center section. Once aligned, slide both the plate and center section back over the fuel tank so that the fuel tank bracket straddles the assembly. Install the remaining supplied 9/16" hex bolts, conical lock washers and spacers from step 3.

Step 5

Align the 5/8" carriage bolts in the center attachment plates with the rectangular holes. Make sure the notched corner of the center section is positioned over the fuel tank. Loosely install the supplied 5/8" hex flange nuts.

Step 6

Push the center section up to the bottom of the truck bed and insert the remaining 5/8" carriage bolts as shown in FIGURE 1. Install remaining 5/8" hex flange nuts. Center the gooseneck cylinder on vehicle as close as possible.

Step 7

Torque all 9/16" fasteners to 150 lbs.-ft. and all 5/8" fasteners to 212 lbs.-ft.

Step 8

Using the a 3/16" drill bit, drill through the center locator guide from below the bed of the truck. Move to above the truck and drill a 4" hole through the bed of the truck using a hole saw. Install the CM-UE1 rubber edge trim around the edge of the cut hole and trim to length if desired or apply a rust inhibitor.

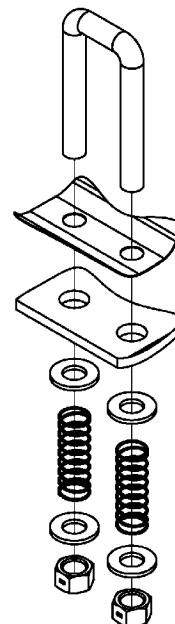
Step 9

Using the center section as a template, drill the 4 holes needed through the heat shield and truck bed for the safety chains using an 11/16" drill bit.

Note drilling a small pilot hole prior to the 11/16" hole will ease this process. Drill must be perpendicular to the heat shield and bed.

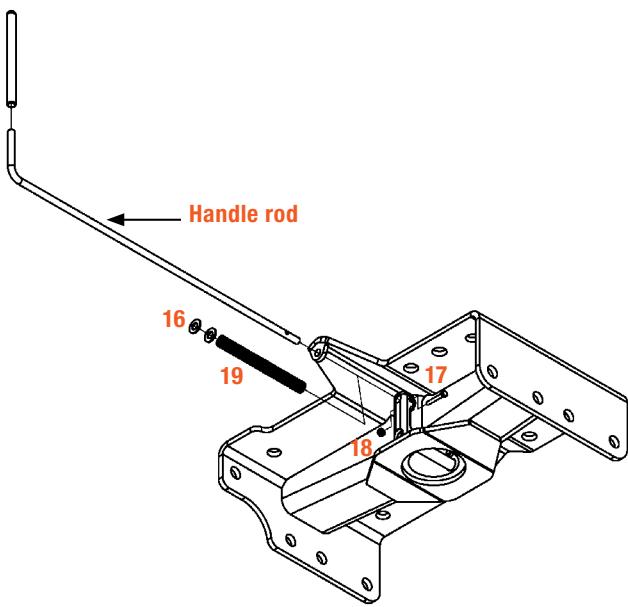
Step 10

Install the safety chain U-bolt assemblies. Ensure they sit flat when in the lower position and slide easily without binding. Enlarge holes as needed for proper operation. Deburr holes and spray exposed metal with rust inhibitor. The nuts should be tightened until flush with the bottom of the U-bolt.



Step 11

Insert cast lock pin into the ball cylinder with handle hole located on top.



Step 12

Insert handle from outside of vehicle on driver side with handle pointing up, through the hole in the center section.

Note: Some models may require use of a pliers to bend the metal flange below the bed outward to allow the handle room to move without interference.

Step 13

Slide one 3/8" washer and the compression spring over the handle before inserting the handle rod into the lock pin. Insert handle into lock pin and secure with hex head screw and nylock nut. May require the lock pin to be pulled out and rotated to fully insert the hex head screw.

Note: If needed, add or remove a 3/8" washer to ensure proper pull strength of lock pin.

Before Towing the First Time

When the ball is in "stored" position, verify the inverted ball will not interfere with the top of the differential when hauling heavy loads. This is especially important on 2 wheel drive models.

Verify adequate turning clearance between the truck cab / box corners and trailer(s).

Check truck box clearance. There should be a minimum clearance of 6" between the bottom of the trailer(s) overhang and the top of the box sides.

Verify all hardware is torqued to the proper specification.

Verify the trailer safety chain length. Too much slack in the chain may interfere with maintaining control in the event of separation. Leave only enough slack to allow full turning without interference.

Verify the trailer attachments to the safety chain loops are secure (cannot be shaken free during towing).

OPERATION

Step 1

Place handle in the unlocked position by pulling it out as far as possible and rotating it clockwise.

Note: Never operate vehicle with handle in the unlocked position.

Step 2

Insert ball into the desired position in the cylinder by aligning the ball groove with the cylinder pin. If the ball and pin are not aligned simply rotate the ball until it drops into place.

Step 3

Place handle into the locked position by rotating it counter clockwise until the locking pin snaps back into position.

TOWING BASICS & SAFETY INFORMATION

For information on safely towing your trailer, visit curtmfg.com/understanding-towing.