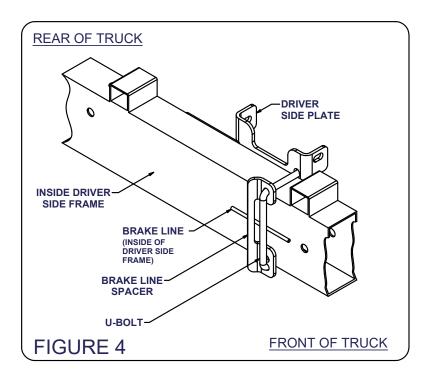
60659 SUBKIT

'02-'08 DODGE RAM 1500 (WILL FIT MEGA CAB SHORT BED)

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.

When placing the U-bolt against the frame stay under the wiring harness and brake line. Make certain that nothing is between the U-bolt and frame before attaching to the side plate. If needed, a brake line spacer is in the bolt kit and can be used to clamp the U-bolt over the top of the brake line when installed as shown in Figure 4.



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DO NOT EXCEED RECOMMENDED VEHICLE TOWING WEIGHT!

60659 SUBKIT

'02-'08 DODGE RAM 1500 (WILL FIT MEGA CAB SHORT BED)

10/1/2021

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.

INSTALLATION STEPS

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

BEFORE INSTALLING

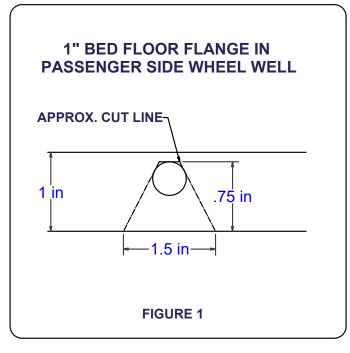
An overhead lifting device, such as chain falls, engine hoist, or cable come-a-long, can be used to lift the center section of the hitch in place. Lower a loop of rope or chain through the hole in the truck bed floor and attach it to the round hitch receiver tube in the center section. Use the lifting 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 crossmember 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.

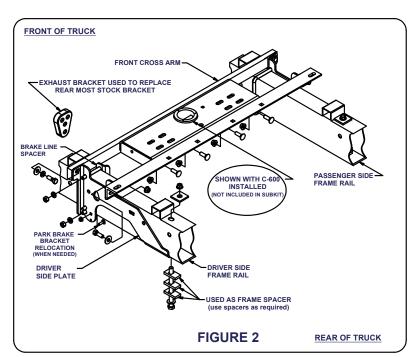
1) Mark the location for the hole in the truck bed. Measure from the tailgate end of the truck bed, by hooking a tape measure over the back of the truck box and marking the correct location. (NOTE: DO NOT MEASURE FROM EDGE OF TAILGATE) Next, mark the center between the wheel wells. This marks the center 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"-5" in front of the axle.

Short Bed Installation 45 1/2" Long Bed Installation 47 1/2"

NOTE: If 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.

2) Remove the rear most exhaust bracket and replace it with the exhaust bracket supplied in the bolt kit. When installing the provided bracked, use the lower most hole. This will drop the exhaust and provide clearance for the cross arm installation on the Mega Cab, and the clearance needed to insert the 5/8" x 7 3/4" bolt through the bottom of the frame. Next, install the two cross arms by sliding them through the wheel well, above the tire on the passenger side of the truck, between the truck frame and truck bed. Slide through untill the cross arms are sitting on the truck frames. The gap between the bed and frame is large enough to allow this, but is partially obstructed by an approximate 1" of sheet metal flange that is hanging down from the bed. Notch the flange on the passenger side of the truck. Locate the 7/16" hole in the flange above the axle and remove the metal below the hole. (As shown in **Figure 1**) This notch allows for the rear cross arm installation.





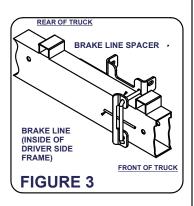
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60659 SUBKIT

'02-'08 DODGE RAM 1500 (WILL FIT MEGA CAB SHORT BED)

Installation Steps Continued

- 3) Install the front cross arm by sliding it between the truck frame and truck bed above the passenger side rear tire. Slide through until both sides are resting on the truck frame. Rotate the cross arm so that it sits in the vertical position with the outer most holes toward the top of the cross arm. Slide the arm forward to the truck bed support.
- 4) Install the rear cross arm using the clearance notch with the angle oriented in an inverted V position. **On 2006 and newer models**, the angle leg with the notches should face the front of the truck when installing through the notch. Slide the cross arm through until it is resting on the truck frame on both sides. Push the rear cross arm towards the back of the truck against the truck bed rail, then rotate it so that the leg against the bed frame is facing the rear of the truck. (As shown in **Figure 2**)
- 5) Raise the center section in position between the cross arms with the center hole towards the front of truck. The round hitch receiver that protrudes from the top of the center section must fit through the hole in the truck bed. Using (4) 1/2" bolts, washers, and lock washers, attach the center section to the threaded holes in the front cross arm. Next, attach the rear cross arm (angle iron) to the center section using (4) 1/2" carriage bolts and flange nuts. (Finger tight only.)
- 6) Remove the emergency brake cable bracket on the driver side frame if the brake cable interferes. This will be reattached to the side plate at a later time.
- 7) Square the center section and cross arms across the frame. Thread a 1 1/2" bolt with a flat and lock washer through the front flange of the sideplate into the front cross arm. Place a 1 1/2" bolt with a flat washer through the back flange of the sideplate into the rear cross arm. (As shown in **Figure 2**) **Finger tight** with a 1/2" flange nut. (**REPEAT FOR OTHER SIDE.**)
- 8) Insert a 5/16" x 1" carriage bolt through the driver side plate with the threads facing out. Reattach the parking brake cable bracket to the bolt and side plate if needed. Next, install the U-bolts from inside the frame through the holes in the side plates. On the driver side, it is necessary to remove a wiring harness frame clip. Place the U-bolt against the frame staying under the wiring harness and brake line. Make certain that nothing is between the U-bolt and frame before attaching to the side plate. If needed, a brake line spacer is in the bolt kit and can be used to clamp the U-bolt over the top of the brake line when installed as shown in **Figure 3**. Replace the wiring harness frame clip and fasten the U-bolt to the side plates using a 1/2" lock washer and a 1/2" flange nut to each end of the U-bolt. (**Finger tight only**) Place the 5/8" x 7 3/4" hex bolt through the bottom sideplate flange and clamp three CM-SP9 spacers between the sideplate and frame. Attach it to the top of the frame with a CM-SP24 spacer and a 5/8" nut. While installing on the passenger side, pull the exhaust sideways to allow ample clearance for the 7 3/4" hex bolt installation.



9) With the sideplates installed on both sides, torque all 1/2" fasteners to 110 ft.-lbs., all U-bolts to 75 ft.-lbs. and 5/8" fasteners to 210 ft.-lbs. in the following order:

First: Torque the center section to the front and rear cross arms.

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 maximum of 40 ft.-lbs.) Third: Torque the sideplate flanges to the front and rear cross arms.

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

Maintenance (Required every 30 days or prior to use)

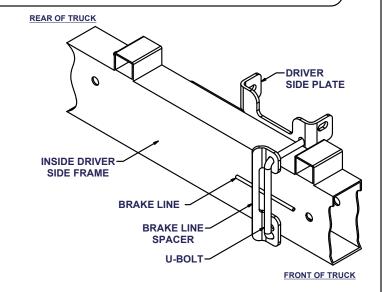
- 1. Keep hitch ball lubricated regularly. Use sillicone spray or equivalent to prevent wear and rust.
- 2. Keep hitch assembly free of dirt and other foreign debris.
- 3. Check for proper torque on all nuts and bolts before each use. Also check for excessive wear.
- 4. Check ball wear before each use.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

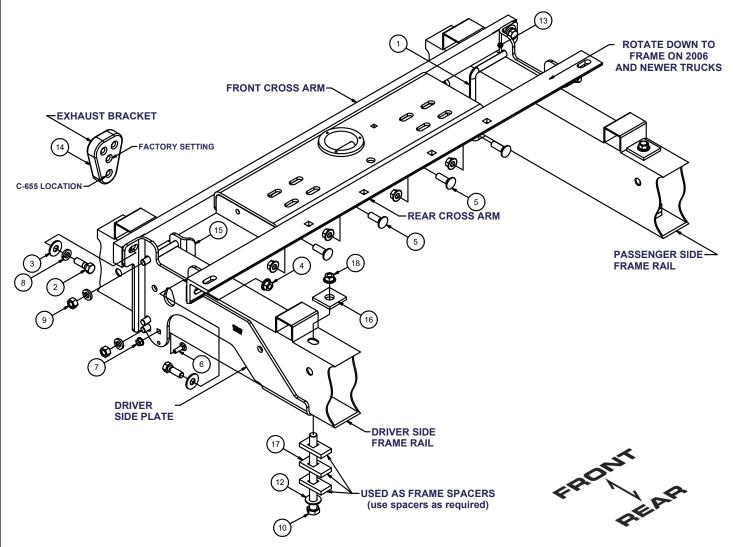
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60659 SUBKIT

'02-'08 DODGE RAM 1500 (WILL FIT MEGA CAB SHORT BED)

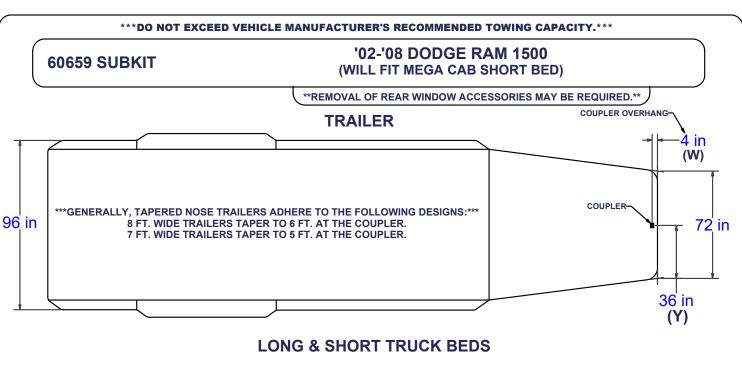
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Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	CM-1204-UBS	1/2-13 x 4 1/4 x 6 7/8 x 1 1/2 SQ U-BOLT
2	8	10-10334	HHCS,1/2-13 UNC,1-1/2,GRD8,YZ
3	8	30-00133	WASHER,FLAT,1/2,YZ
4	6	20-00062	NUT, SER-FLANGE,1/2-13 UNC,GRD8,YZ
5	4	10-10287	BOLT,CAR,1/2-13 UNC,1-1/2,GRD8,YZ
6	1	10-10040	BOLT,CAR,5/16-18 UNC, 1, GRD5
7	1	20-00039	NUT,FLANGE,5/16-18 UNC, GRD5
8	10	30-00015	WASHER,LOCK,1/2,CZ
9	4	20-00171	NUT,HEX,1/2-13 UNC,GRD8,YZ
10	2	10-10622	HHCS,5/8-11 UNC,7-1/2,GRD8.YZ
12	2	30-00131	WASHER,FLAT,5/8,YZ
13	2	CM-1205-UBS	1/2-13 x 4 1/4 x 6 1/8 x 1 1/2 SQ U-BOLT
14	1	CM-C655-EH	EXHAUST HANGER
15	1	CM-C659-BLS	1/4" BRAKE LINE SPACER
16	2	CM-SP24	.250 x 2.00 x 2.00" ROUND HOLE SPACER
17	6	CM-SP9	.375 x 1.25 x 2.50" SQUARE HOLE SPACER
18	2	20-00063	NUT,SER-FLANGE,5/8-11 UNC,GRD8,YZ

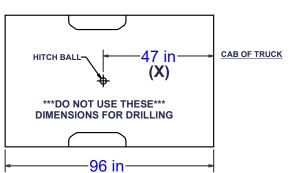


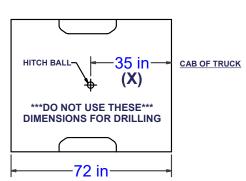


PERIODICALLY CHECK THIS RECEIVER HITCH TO ENSURE THAT ALL FASTENERS ARE TIGHT AND THAT ALL STRUCTURAL COMPONENTS ARE SOUND.

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CLEARANCE CALCULATION

(CAB TO BALL CENTER) - 1/2 (TRAILER WIDTH) = (MINIMUM CLEARANCE)

IF THERE IS AN OVERHANG FROM THE COUPLER THEN THE EQUATION IS: (Y)

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

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