

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

INSTALLATION STEPS

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

1. Remove the heat shield located above the rear axle, if equipped. The gas tank heat shield may also need to be cut along the top for some models.
2. Use a 9/16" socket to remove the emergency brake cable support from driver side frame.
3. On 2005 models loosen the (2) bolts on the exhaust hanger mount in front of the rear axle between the exhaust hanger and the truck bed. Lower the exhaust approximately 1/2", insert the 1/2" spacer block provided and retighten bolts.
4. On 2005 models remove rear exhaust hanger and install exhaust strap as shown in **Figure 2**. Lower exhaust as needed for cross arm clearance.
5. Install cross arms by sliding them into the gap between the truck bed and frame on passenger side. Swing other end between the truck bed and frame gap on driver side. **(Note: Holes in the cross arms must face each other as shown in Figure 1.)**
6. Hang the side plates from the 5/8" studs extending from the cross arms. Secure each plate with (2) 5/8" flange nuts provided. Finger tight only.
7. Align side plates with the 3/4" slot in the frame. Place the 5/8" carriage bolts through side plate, (2) 1/4" spacers, and frame as shown in **Figure 2**. Use a 5/8" flange nut to secure, finger tight only. At this time, place another 5/8" carriage bolt through the other hole in the frame and sideplate or drill the hole to fit the 08' model trucks. Secure with a 5/8" flange nut and washer as shown.
8. Reinstall the emergency brake cable supports on driver side using 3/8" hex bolts, washers, and flange nut.
9. 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 3**. Use a 15/16" wrench to tighten the 5/8" flange nuts on the rear cross arm to the side plates. Use the 6 1/2" spacer provided to evenly space the crossarms. Once evenly spaced tighten the 5/8" flange nuts on the front crossarm. **(Note: Do not tighten front cross arm until crossarms are evenly spaced.)**
10. Drill 1/8" pilot holes through the center of each of the six holes in the cross members up through the pickup bed. From inside the pickup bed, center the six pilot holes with the letter "A" on the cutting template and fasten the template to the bed floor with tape. Once fastened, drill four 1/8" pilot holes through section lettered "B". **(Note: Be sure to check for brake and fuel lines before drilling. Also, be sure the holes are drilled in the lower rib sections of the truck bed as shown in Figure 4.)**
11. With the pilot holes drilled, use a sabre saw to cut out section "C".

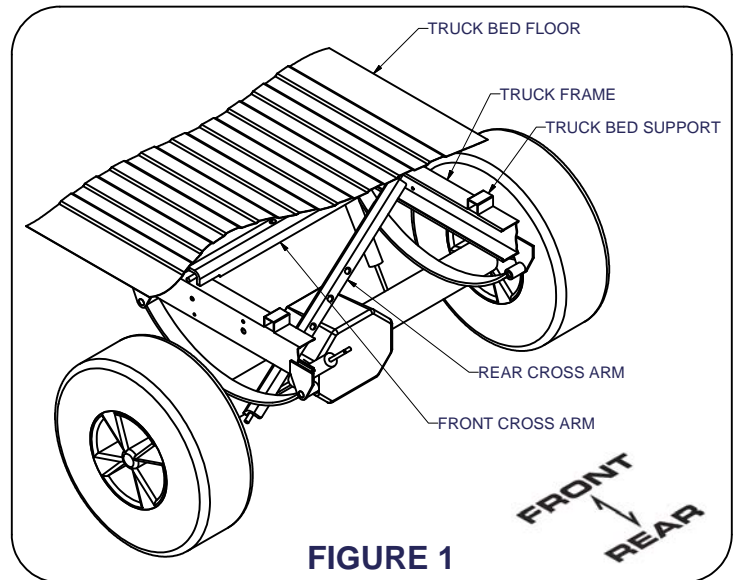


FIGURE 1

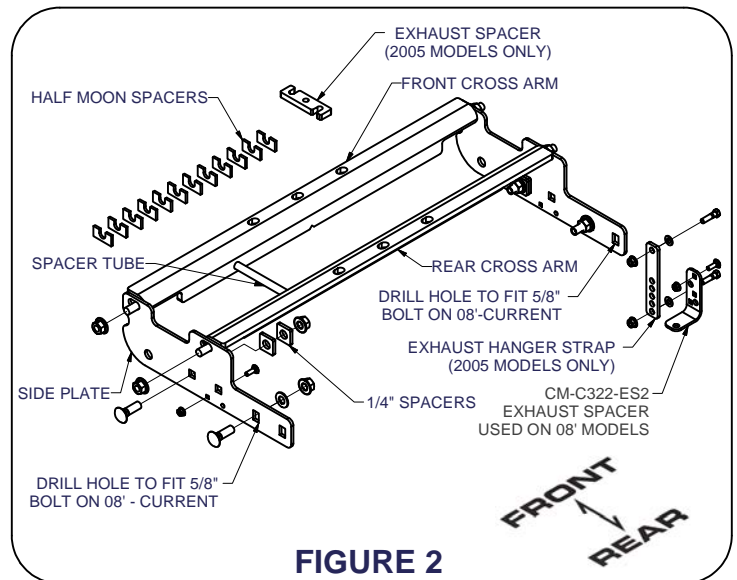


FIGURE 2

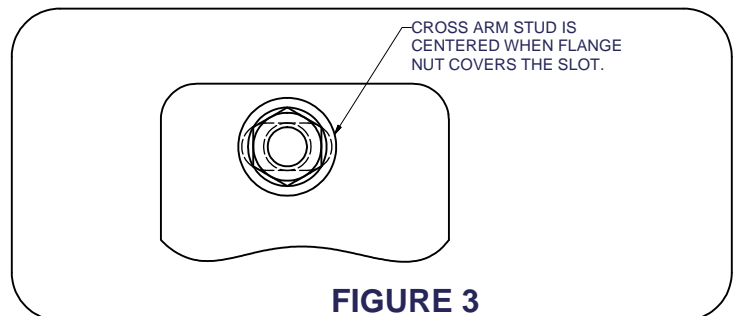
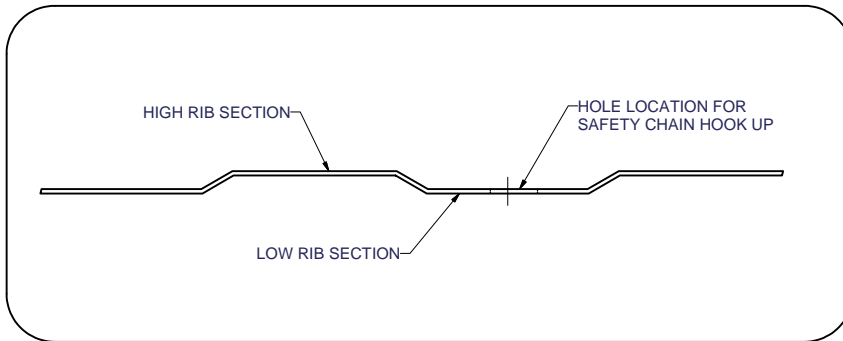


FIGURE 3

INSTALLATION STEPS (CON'T.)

12. Remove the template and set your C-52 folding hithball into place. Center the C-52 using the six pilot holes as a guide. Using a 21/32" drill bit, drill out all six holes in the pick up bed floor.
13. Attach the folding hitchball to the crossarms using the six 5/8" grade 5 carriage bolts and flange nuts provided. Torque bolts to 115 lb-ft. **Note:** Shims must be placed under each bolt between crossarms and folding hitch to prevent bed floor from collapsing.
14. After the C-52 has been fastened to the crossarms, the remaining fasteners on the subkit must be torqued. First, torque 5/8" flange nuts on crossarms to the side plates to 140 lb-ft. Second, torque 1/2" bolts and nuts securing the side plates to the frame to 75 lb-ft. Third, torque the 3/8" bolts and nuts securing the side plates to the frame to 30 lb-ft.
15. Reattach any brake, fuel, or electrical wires so they have adequate clearance to added fasteners.

**FIGURE 4**

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	HFN3816	HEX FLANGE NUT
2	2	3/8-16 X 1 1/2	HEX BOLT
3	2	3/8"	WASHER
4	4	5/8-11 x 2	CARRIAGE BOLT
5	8	5/8-11	HEX FLANGE NUT
6	2	5/8	WASHER
7	2	5/16-18 x 1	CARRIAGE BOLT
8	2	5/16-18	HEX FLANGE NUT
9	12	CM-SP27	.188 x 1.00 x 2.00" U-SHAPE SPACER
10	4	CM-SP15	.250 x 1.50 x 1.50" SPACER
11	1	CM-ES1	.250" EXHAUST STRAP 1
12	1	CM-ES3	PLATE .500" A-36 H.R.
13	1	CM-TS	.625 DIA.TUBE SPACER
14	1	CM-ES2	.188" EXHAUST SPACER 2

2008 EXHAUST WITH TWO BOLT MOUNT