

INSTRUCTION SHEET
FOR
INSTALLING LOBOY HOIST SUBFRAMES

Some truck features such as fuel fill tubes passing over the truck frame, exhaust systems or other truck components can make mounting the LoBoy hoist directly to the truck frame difficult or impossible. For these situations, a subframe is available for mounting the LoBoy hoists.

There are two subframes available. The following table gives the lengths and heights of the various subframes. All subframes provide a place for mounting the hoist with a dump angle between 45° and 50°. The subframe for the Bert & Charlie models has a crossmember for mounting the 15 quart valve/tank assembly or either single- or double-acting electric power units. The second subframe has two hoist support crossmembers which allow the hoist to be mounted 'normal' or 'reversed'. The following table provides additional information about the subframes.

Hoist Models	Subframe Length	Body Length/Overhang	Shortenable to Length	Height
Bert & Charlie	10' 7"	11' / 5"	8' 7"	3.83"
David & Ernie	13'	14' / 12"	11'	5.50"

LOCATE SUBFRAME ASSEMBLY

Determine where the back edge of the rear hinge needs to be located. For Ford F350 through F550, this will be even with the end of the truck frame, approximately 47 inches behind the center of the rear axle. For all other trucks, the back edge of the rear hinge should be 2 inches or more behind the back side of the rear spring shackle, approximately 30 to 36 inches behind the center of the rear axle.

Measure from here to the back of the cab. Subtract the cab clearance to get the length of the subframe. Measure the overall length of the subframe to determine how much to cut off from, or add to, the front of the subframe.

Place the subframe on the truck and mark the rear of the truck frame to be cut off, if required. See Fig. 1.

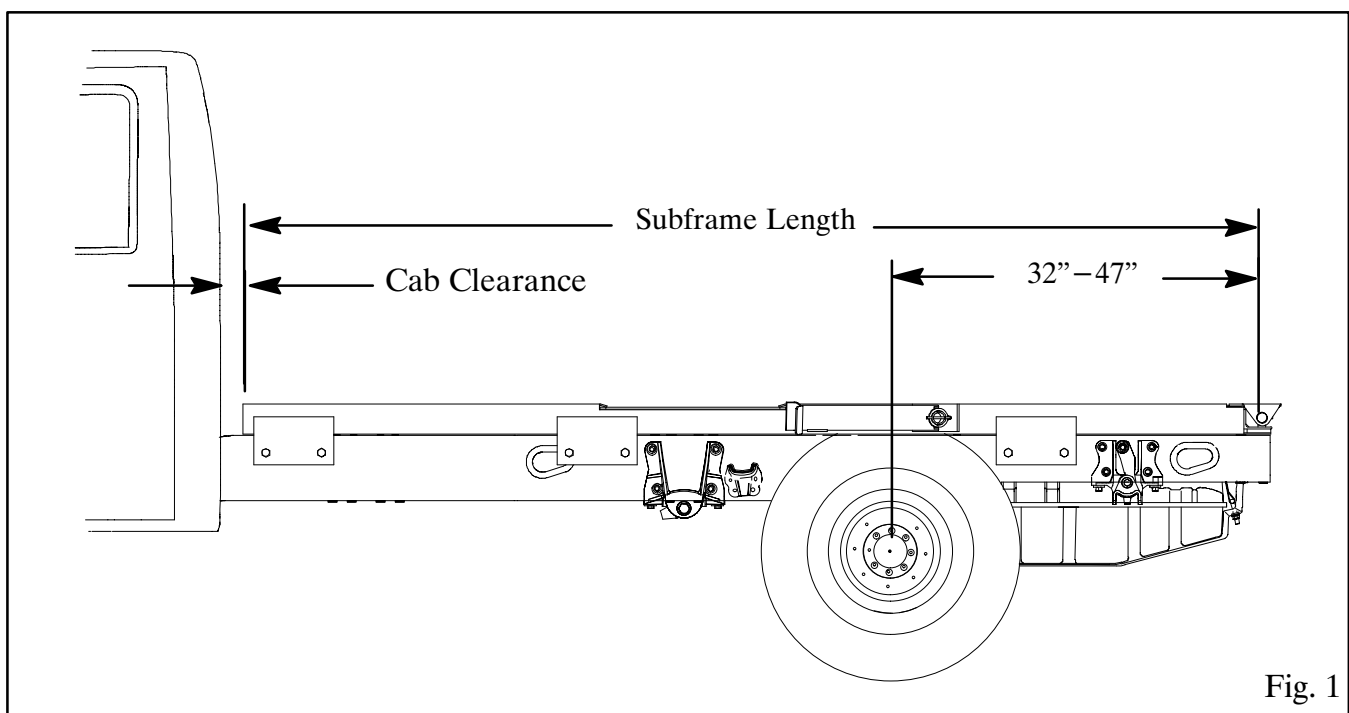
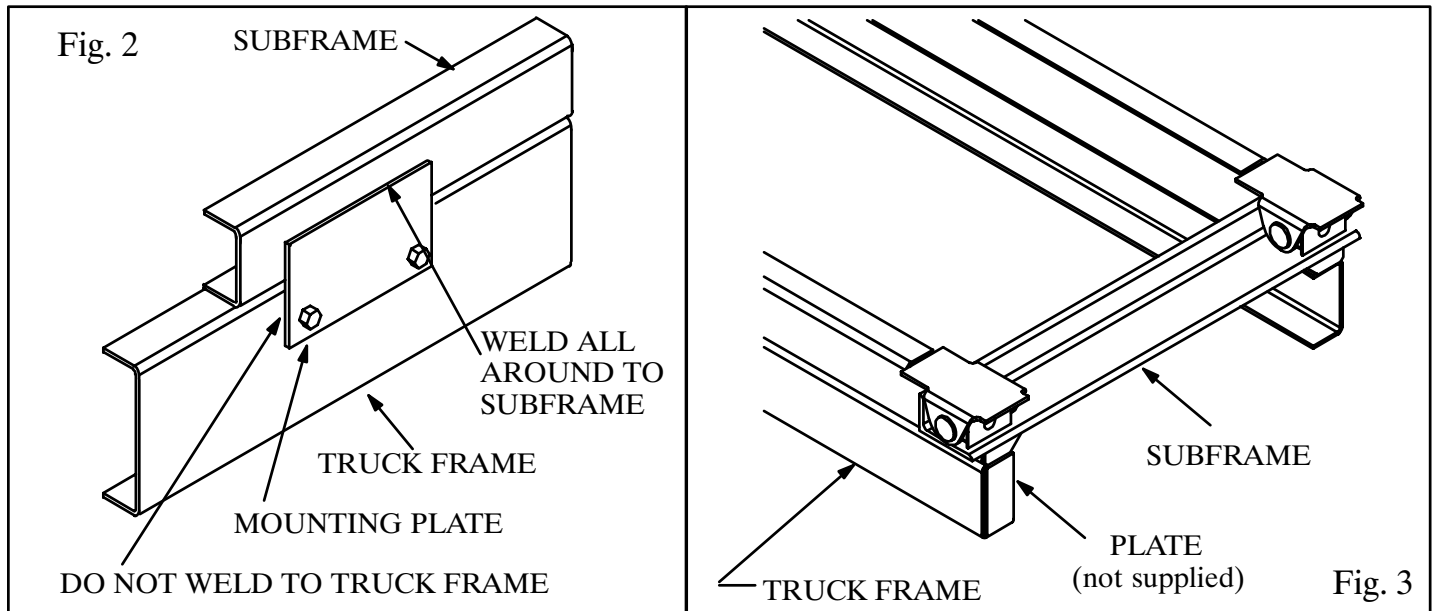


Fig. 1

NOTE: If the truck frame has rivets in the top flange, add spacers between the truck frame and subframe, or counter sink the rivet heads into the subframe by drilling holes in the subframe. Do not remove the rivet heads!

LOCATE MOUNTING PLATES

There are six mounting plates, three for each side - one at the front of the subframe, one at the hoist mount and one between the hoist mount and the rear hinge. Clamp the mounting plates to the truck frame and to the subframe as shown in Figures 1 and 2. If desired, locate the plates to use existing holes in the frame. Mark the mounting plates for drilling. Repeat this for the other side.



CAUTION: BE CAREFUL OF BRAKELINES, WIRING, ETC. INSIDE THE TRUCK FRAME WHEN DRILLING THE TRUCK FRAME.

DRILL TRUCK FRAME

Drill 21/32" holes in the mounting plates and the truck frame. Bolt the mounting plates in place using 5/8 x 2 cap screws (grade 8) and hex lock nuts, tightening to 180-190 lb-ft.

WELD REAR HINGE AND SUBFRAME

Make sure the subframe is correctly located, centered on and square with the truck frame. Securely weld the mounting plates to the subframe. Add a plate (not supplied) to the end of the truck frame rail. (See Fig. 3.) Securely weld the plates to the end of the truck frame rails and to the back end of the subframe. Do this on both sides.

NOTE: THE BACK END OF THE SUBFRAME / REAR HINGE MUST BE SECURELY ATTACHED TO THE TRUCK FRAME.

MOUNT HOIST TO SUBFRAME

Place the hoist pads in the cutout in the subframe and the back end of the hoist on the hoist support crossmember. The Bert and Charlie models are mounted as shown in Figure 4. The David and Ernie models can be mounted as shown in Figure 4 or 'reversed' as shown in Figure 5. Refer to the LoBoy owner's manual for mounting distance information.

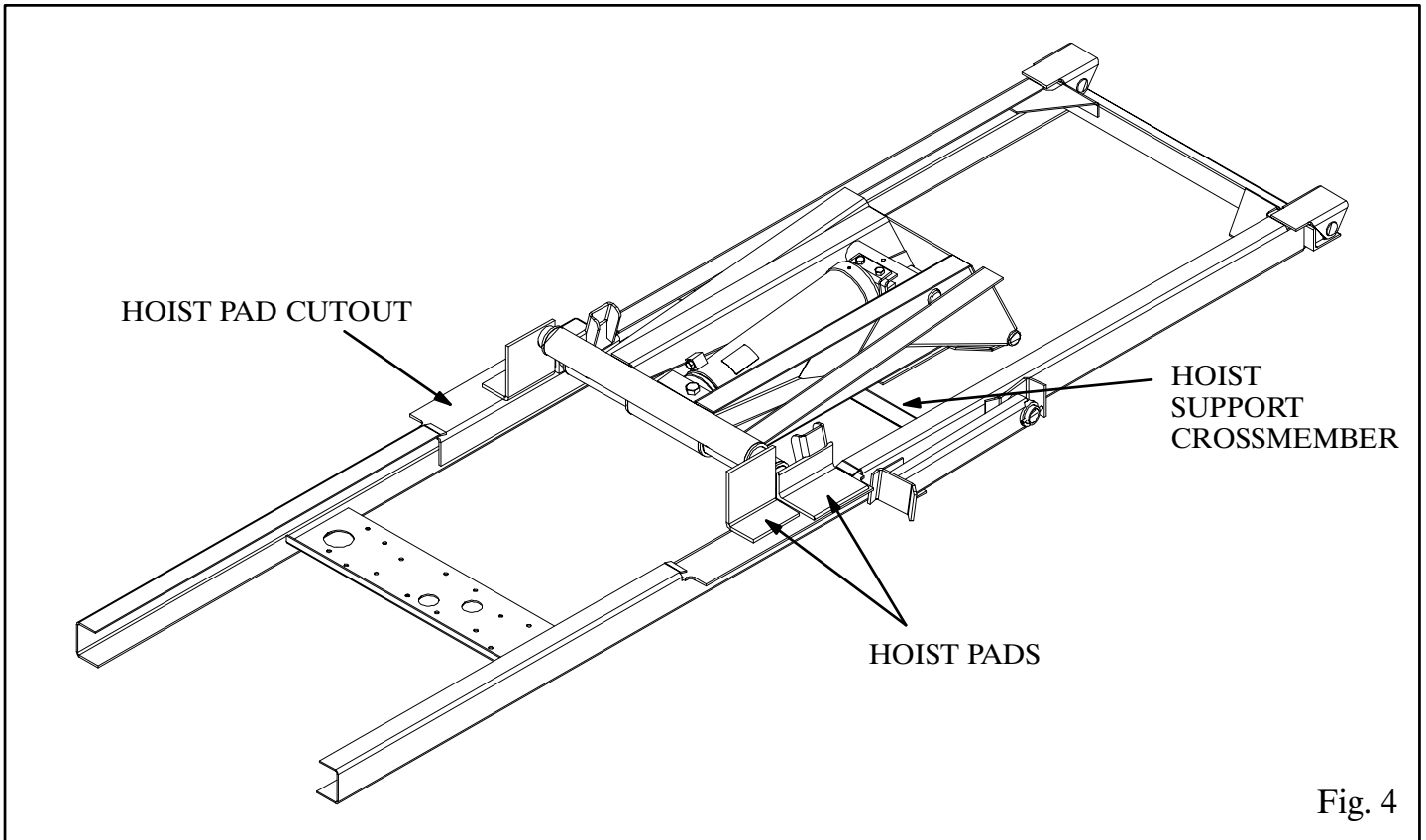


Fig. 4

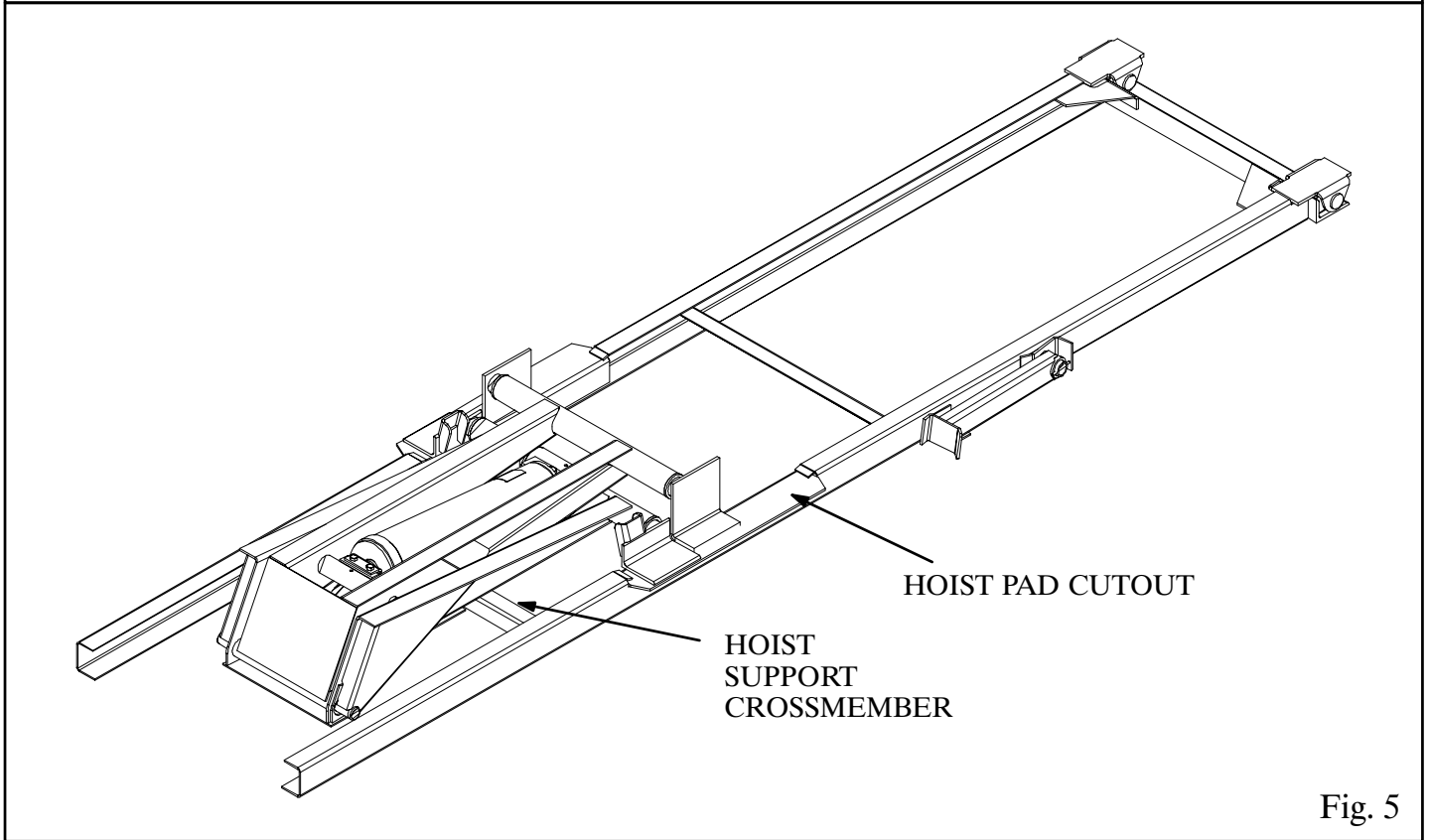


Fig. 5

Locate the hoist for the desired dump angle. Fully weld the lower hoist mounting angle to the hoist pad cutout, on both sides. Make sure the hoist is correctly located, centered on and square in the subframe.

Refer to the LoBoy owner’s manual for installing the hydraulic system and mounting the body.