Lexco Engineering and Manufacturing
P.O. Box 47
Lansdale, PA 18964
Phone: 215-699-7031
Fax: 215-699-3836

HT and STN 200 lb – 2000 lb Capacity Foot Operated Hydraulic Lift Tables

Electric Hydraulic Upgrade Installation

Introduction

Electric hydraulic upgrades to HT and STN series lift tables provide increase ergonomics and efficiency by automating the lift an lowering process. They also increase the safety of the procedure by allowing the operator to operate the lift system remotely.

Installation

Overview

The installation requires a drill and wrenches to mount the components with the supplied hardware.

Procedure

Included with your Electric-Hydraulic Lift upgrade is the following:

A. Hydraulic Cylinder.
B. Electric Hydraulic Pump 110 VAC
C. Two button pendant prewired to hydraulic pump.
D. Hydraulic pump mounting bracket.
E. Height Adjustment Stud and Jam Nut.

To convert an STN Long Deck Lift Table into an Electric-Hydraulic model, refer to drawing SP-6721 and follow the procedure listed below.

Note: Although the accompanying drawings may refer to the specific model SP-6721 2000 lb capacity table, the following procedure is applicable to all standard 500 lb to 2000 lb capacity HT and STN tables.

1. To remove the hydraulic unit (see figure 1), raise the table about 4" and brace the top by placing two or more 2x4 dimensional lumber (or suitable brace) between the base and top to hold the top in raised position. Open the release valve and pull down on the hydraulic ram. Remove the bolt that holds the hydraulic unit to the base of the table and tilt the unit to remove. Chisel or grind off the clips that hold the front of the hydraulic unit.

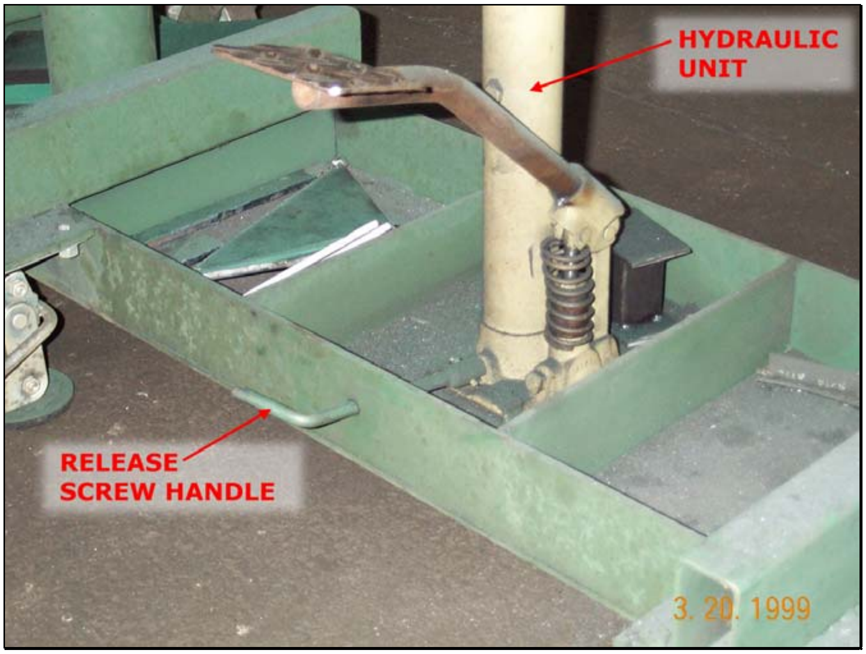


Figure 1

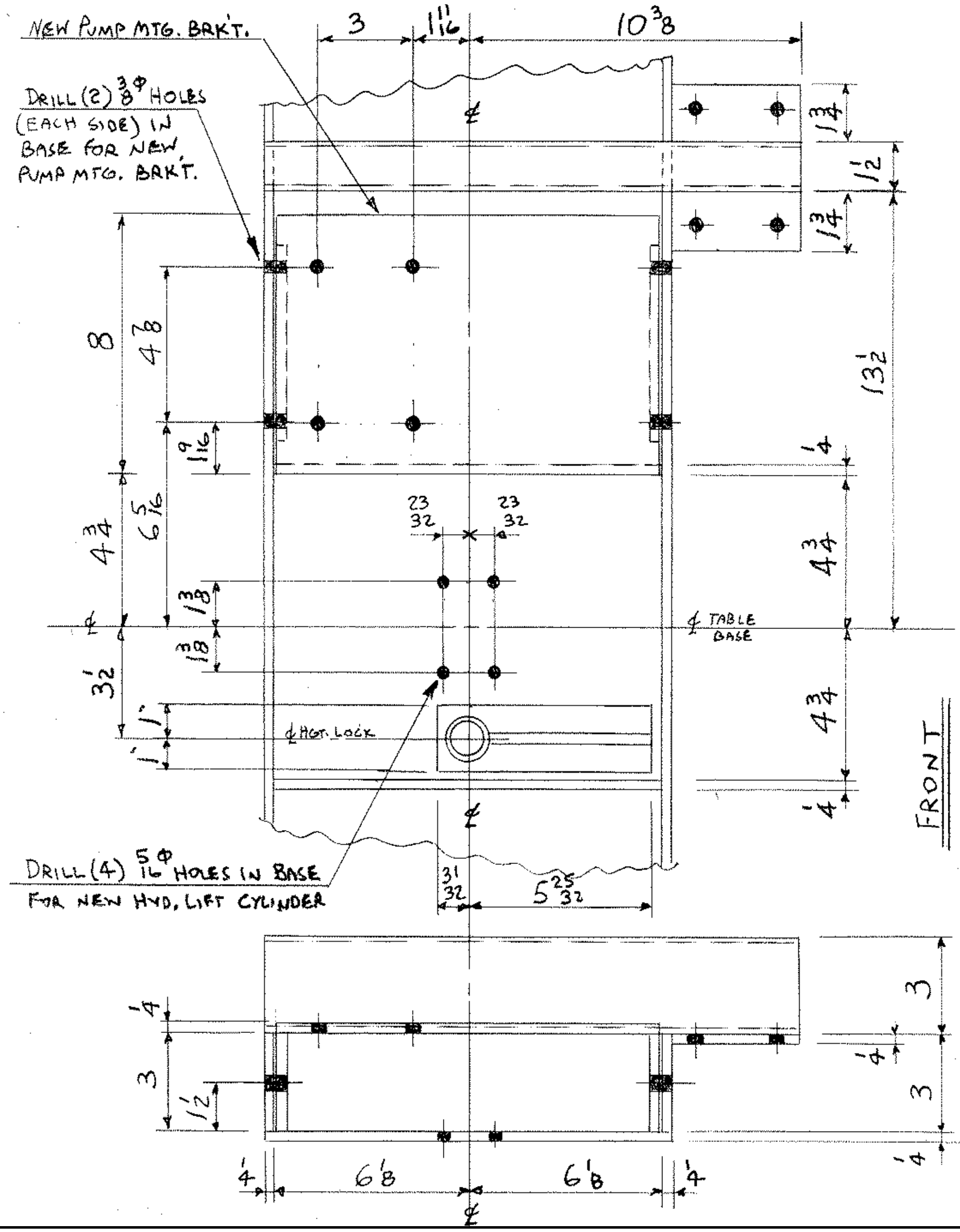
2. Remove the release screw handle (see figure 1).
3. Refer to drawing SP-6865 for layout of new bolt holes and drill holes in base as shown.
4. Position the new pump on the base to match the holes located as shown on drawing SP-6866. Attach the pump bracket to the base using four 5/16" x 3/4" long hex head bolts and lock washers supplied with the assembly.
5. Referring to drawing SP-6866, bolt the hydraulic cylinder to the base using the 1/4" diameter x 1" long hex head bolts, nuts and lock washers supplied with the assembly.
6. If the pump and cylinder are not already connected, connect the hydraulic hose as shown in drawing SP-6866.
7. After checking to see that there is sufficient oil in the reservoir, the unit may be plugged in to a 115 volt outlet for operation.
8. Raise the hydraulic cylinder by operating the system via the hand held pendant until the table is raised above the bracing. Check that the ram has seated itself into the existing ram washer on the underside of the table top. If it has not, loosen the bolts on the hydraulic cylinder and adjust as necessary to correct the misalignment.
9. Remove the bracing used in step 1.
10. Lower the hydraulic cylinder to it minimum position.
11. Readjust the Height Adjustment Stud so that it engages with the table top and is seated within the alignment washer. When the hydraulic cylinder is in it lowest position, the guide tubes should be bottomed so that the weight rests on the guide tubes and not the hydraulic cylinder.
12. Use the jam nut on the height adjustment stud to secure the position of the stud. You may clamp onto the threaded portion of the height adjustment screw that does not engage with the Jam Nut or cylinder rod threads.
13. The table is now ready for operation. It is recommended that the table is cycled a few times to clear the hydraulics of any air.

Relief Valve Pressure Adjustments

If the table will not lift the table maximum rated load, it is possible that the pump may require adjustment. The following steps outline the procedure to adjust the relief valve pressure setting. The relief valve should never exceed the pressure rating of the cylinder, 1500 psi. Doing so can result in catastrophic failure of the cylinder and fatally injure the operator or bystanders. Only technicians with an adequate level of hydraulic equipment maintenance experience should attempt this procedure.

1. Disconnect the hose that attaches to the cylinder and attach it to the pressure gage.
2. Remove the lock wire on the relief valve set screw (if any lock wire exists).
3. Loosen the jam nut that locks the set screw.
4. Turn the pump on and note the pressure reading on the gage. Turn the pump off. If the pressure is within the acceptable range, then you are finished. Otherwise, continue to next step.
5. To increase the pressure setting, turn the set screw clockwise. Only turn it a 1/2 turn at a time before rechecking the pressure. Return to step 4.

LEXCO ENGINEERING & MFG. CORP. 20 W. Chestnut St. Souderton, Pa.	LAYOUT FOR NEW BOLT HOLES REQUIRED FOR CONVERSION OF SPECIAL TABLE #SP-6721	DWG. #SP-6865 FILE #F-2000-24 6-20SEPT94-3"=1'-0



LEXCO ENGINEERING & MFG. CORP.
20 W. Chestnut St. Souderton, Pa.

ELECTRIC- HYDRAULIC CONVERSION KIT FOR EXISTING 2000# CAPACITY TABLE #SP- 6721

DWG. #SP-6866	
FILE # F-2000-24	
B/M DWG. #SP-6867	
6-20 SEPT 94 - $1\frac{1}{2}$" = 1'-0