

1102

## **ACCESSORIES FOR TOUGHLIFT JACKING SYSTEMS**

### **TLB LOAD BLOCK SETS.**

Load block sets are designed to support loads mechanically to improve the safety of the Toughlift Jacking system when loads need to be supported for long periods of time or when personnel need to work under a lifted load.

The load block set consists of a number of horseshoe shaped blocks of varying thicknesses and a Saddle adaptor. See Figure 1 for identification of parts.

#### **Preparation of Toughlift for use of load block sets.**

The Toughlift must be prepared for the load block set before lifting is carried out.

Lift out the standard saddle. This can be made easier by using a screwdriver or similar tool as a lever. Unscrew and remove the inner saddle adaptor ring. Screw in the large load block saddle adaptor, and refit the saddle in the top of this.

#### **Use of Toughlift with load blocks**

Lift the load with the Toughlift as described in the operating instructions to a position higher than is required or to maximum stroke.

Fit load blocks as required to make up the required lock out height. Ensure that the load blocks are fitted right way up - see figure 3. Check that the lowest one engages correctly on the top of the cylinder body and that all other blocks fit together correctly. It does not matter which order the blocks are built up in, except that if the top load block with the reduced diameter portion is used, then this must be at the top of the stack. As shown in figure 1.

**Note** that if a load lock extension (type LLE) is to be used than the load block with the reduced diameter **MUST** be used.

Lower the load down onto the load blocks and allow the pump to run on for a couple of seconds once the saddle adaptor contacts the load blocks to ensure the load is supported mechanically.

1102

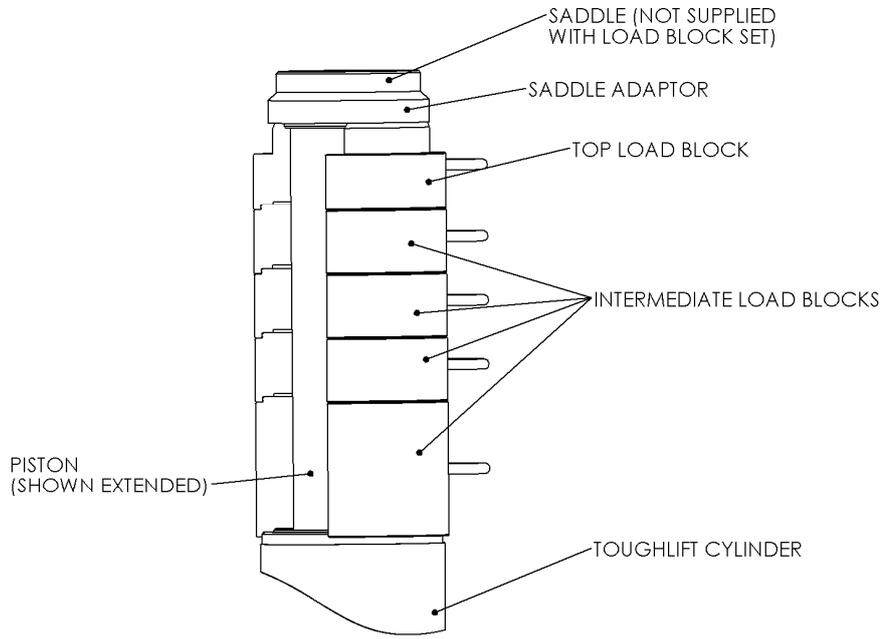


FIGURE 1 LOAD BLOCK ASSEMBLY (TYPICAL)

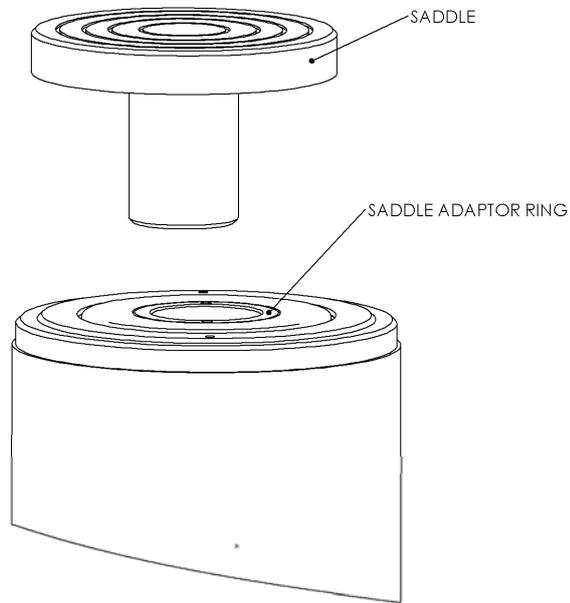


FIGURE 2 SADDLE REMOVAL

1102

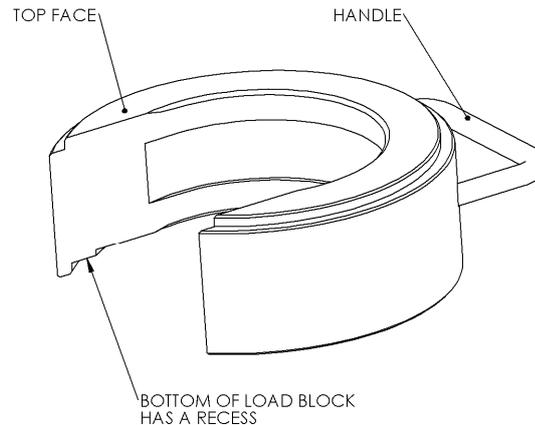


FIGURE 3 ORIENTATION OF BLOCKS

### **TLS SWIVEL LOAD CAPS**

The TLS swivel load caps can be used on any toughlift in place of the standard saddle. The swivel load caps reduce (but not eliminate) the effects of any off centre loading, and will help to prolong cylinder life. Maximum angle of tilt is 5 degrees.

Simply lift out the standard saddle and push the swivel load cap in its place. The TLS load caps can be used in conjunction with extensions detailed below.

### **NLE NON LOCKING EXTENSIONS.**

The NLE range of non locking extensions simply increase the closed height of the toughlift. Simply lift out the standard saddle and slide the NLE extension into its place. Refit the saddle at the top of the NLE extension. Care is required when using extensions to ensure the load is lifted as vertically as possible as the place extra loading onto the piston rod if any misalignment occurs.

### **SLE SLIP LOCK EXTENSIONS**

The SLE slip lock extensions increase the closed height of the toughlift. They are an improvement over the simple NLE series.

Remove the saddle from the top of the cylinder and fit the SLE extension into its place. Re-fit the saddle into the top of the SLE extension. As the piston extends the sleeve on the extension will slide down over the outside of the piston to give additional support. SLE extensions should be used in preference to NLE extensions wherever possible.

### **LLE LOAD LOCK EXTENSIONS**

The load lock extension is to be used where an extension is required to the closed height and it is required to use load blocks.

1102

Prepare the toughlift to accept load blocks as described in the TLB section above. Fit the load lock extension into the top of the piston and fit the saddle into the top of the LLE extension.

Lift the locking sleeve of the LLE upwards and turn it so that it locks into place.

Raise the load fit load blocks as described above in TLB section. Once the load is supported mechanically, lower the loose sleeve on the LLE over the top load block to give additional lateral support.