

ELECTRIC LIFT STAND ASSEMBLY & OPERATION INSTRUCTIONS

For models ELS-24, ELS-36, ELS-48 (mild steel), ELS-24SS, ELS-36SS, ELS-48SS (stainless steel)



INITIAL INSPECTION & RECEIVING

1.1 Immediately upon receipt of the equipment check the crating and contents for any damage that may have occurred in transit. Report any damage immediately to the carrier and to Sharpe Mixers. Check against the packing slip to be sure that all parts were received. Report missing items to the carrier and to Sharpe Mixers.

CAUTION

Because neither manufacturer nor seller can control the application or installation of this product, their only obligation shall be to replace this part if defective and shall not be liable for any injury, loss, or damage, direct or consequential, arising from the installation of this product. User assumes all risk in using this product and is therefore cautioned in selecting the product suitable to the intended use. Refer to inside cover of this manual for Terms and Conditions.

1.2 The stand will normally be shipped disassembled. The package should contain:

- Electric cylinder body assembly
- Mixer Mount & Torque Arm
- Flanged Base Leg & Straight Leg
- Assembly bolts & Manual

1.3 There are various types of optional equipment that may be included with the stand including:

- Tank Clamp & Positioning Bracket
- Tank Positioning Strap
- Leveling Glides for stand legs
- Rolling Casters for stand legs
- Base Leg End Caps
- Mixer counter-weight(s)

These items may be packaged with the stand or shipped separately. Contact Sharpe Mixers regarding any missing items, or to purchase any of these options for your stand.

ASSEMBLY: CYLINDER BASE LEGS

2.1 Gently set the Cylinder Assembly on its side to access the bottom of the cylinder. Mount the Flanged Base Leg to the bottom of the cylinder, using only the two bolts through the two legs. The Straight base leg may now be installed at 90-degrees from the Flanged Base Leg. Install the two assembly bolts through the leg, flange and cylinder base. Tighten all four bolts securely.



2.2 At the end of each leg there is a mounting hole for bolting the stand to the floor. Leveling glides or wheeled casters may also be installed here if the stand must be mobile. *Glides and*

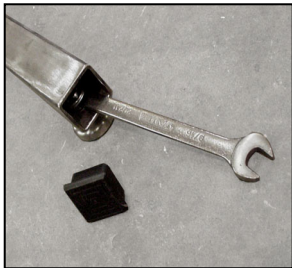
casters may be ordered from Sharpe Mixers Parts Department at (800) 237-8815, ext.103.

2.3 Raise the cylinder assembly into a vertical position and place it on the floor resting on the legs.



When bolting the stand to the floor, it is recommended the stand be raised off the floor using nuts below the legs and adjusted until the cylinder is vertical. Tighten the nuts inside the legs to secure the stand in place.

Wheeled Casters should be adjusted on a completely flat surface. Leveling glides should be adjusted for the surface where the stand will be placed. Adjust the Glides until all four rest squarely on the floor. Once the glides have been adjusted, tighten the nuts inside the legs.



Plastic Leg End Caps may be installed on the open ends of the legs for a more finished appearance.

TESTING ELECTRIC LIFT

3.1 Prior to completing assembly with the mixer, it is recommended the Electric Lift be tested for operation.

The Electric Lift Pendant Control is mounted on the side of the stand cylinder. The momentary button closest to the power cord moves the stand "up" and the momentary button furthest from the power cord moves the stand "down".



Plug the power cord from the motor terminal box into the 110V wall outlet. The Electric Lift Stand is now considered powered. Electric limit switches constrain the movement of the ram head to within specified limits. Use caution when lifting for overhead obstacles and when lowering be sure top cap of

stand is clear. Be careful and use common sense to avoid potential injury caused by stand movements.

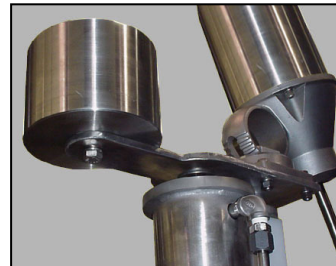
CAUTION: Electric power screws can be very dangerous. Since there is inertia with the motor through the gearbox, the power screw may continue to rotate after the momentary switch is "off", resulting in minor continued movement of the stand.

STAY CLEAR OF THE STAND WHEN OPERATING THE CONTROL PENDENT.

Before servicing the stand or the mixer, lower the stand all the way and disconnect the power cord.

ASSEMBLY: MIXER COUNTERWEIGHT

4.1 The mixer counter-weight (optional) is used to balance the weight of the mixer for smoother operation when raising and lowering the ram. Since different mixers may be used with these stands, it is recommended that the mixer assembly be weighed to determine the correct counterweight for proper operation. Install the counterweight on the top of the stand riser, on the end opposite of the mixer mount.



Pictured is an optional machined stainless-steel counterweight, available for applications where paint-free and plating-free equipment is required.

Standard weight sets are chrome-plated cast iron, available in 10-lb and 5-lb increments.

Mixer weights vary depending on the type of motor, drive, impeller(s) and shaft size. The chart below may be used to estimate counterweight requirements, but the mixer should be physically weighed for the most accurate number.

4.2 Mixer weight chart (approximate)

Standard Mixers	All-Stainless Mixers
D-025....35 lbs	SSD-025.....44 lbs
D-033....40 lbs	SSD-033.....49 lbs
D-050....47 lbs	SSD-050.....56 lbs
D-075....55 lbs	SSD-075.....64 lbs
D-100....67 lbs	SSD-100.....76 lbs
D-150....75 lbs	SSD-150.....84 lbs
D-200....82 lbs	SSD-200.....91 lbs
G-025....51 lbs	SSG-025.....73 lbs
G-033....55 lbs	SSG-033.....77 lbs
G-050....63 lbs	SSG-050.....85 lbs
G-075....70 lbs	SSG-075.....92 lbs
G-100....83 lbs	SSG-100....105 lbs
G-150....91 lbs	SSG-150....113 lbs
G-200....98 lbs	SSG-200....120 lbs

create a dangerous situation (mixer drive toppling over and up-ending the spinning impeller). Securing the stand to the tank is a good way of preventing these possible hazards.

Remove the clamp assembly from the tank “Y-Bar”. Unbolt the larger 2-piece clamp and install the clamp onto the center of the stand cylinder. Reinsert the tank “Y-Bar” into the two smaller collars. The large collar may now be adjusted for height and position, and the “Y-Bar” may be moved in and out to the optimum place to position the tank. Refer to the Portable Service Manual for proper mixer positioning.

The Tank Positioning Strap may now be wrapped around the tank and hooked to each end of the tank “Y-Bar”. Tighten the ratchet until the tank is held securely. Retighten all Clamp Collar bolts once the tank and clamp components are positioned.

ASSEMBLY- MIXER MOUNTING

4.3 The standard model Electric Lift Stand is designed for Sharpe Portable Mixers using the “Cup Plate” mounting option. Other special mountings are available to meet specific requirements.

Assemble the cup plate onto the mixer nosecone with the rubber vibration pad and the swivel washer. Set the assembled mixer drive on the stand riser and bolt securely in place. Install the mixer shaft and impellers following the instructions in the Portable Service Manual. Position the mixer as required and tighten the swivel bolt securely.

Note: the rubber pad is designed to allow some flexibility in the mounting; do not attempt to tighten the bolt to stop all movement of the mixer drive.

ASSEMBLY: TANK POSITION CLAMP
(OPTIONAL EQUIPMENT)



4.4 The Tank Positioning Clamp is designed to hold the mixer stand securely to the mixing tank. The inherent vibrations that occur during mixer operation can cause the mixer stand to move out of position. This can cause damage to equipment (impellers hitting the tank wall or other internals) or may even



OPERATION

5.1 The operation of the Electric Lift Stand may now be tested with the mixer in place.

Press and hold the “up” button up to raise the stand, “down” to lower.

The height of the lift will be held in position when the control buttons are released. If a set “bottom” position is desired that is higher than the stand’s lowest setting, a clamp collar may be installed on the guide rod to limit the downward travel. Adjust collar tab to align with limit switch.



A light lubricant may be applied to the Torque Arm shaft for smoother operation and to prevent binding in the torque arm bushing.

WARNING: STAY CLEAR OF THE STAND WHEN OPERATING THE CONTROL PENDANT

Make sure there are no obstructions in the path of the mixer drive, shaft or wiring. All mixer wiring must be held free from the Stand during raising or lowering Electric Lift. Allowing the wiring to catch on stand brackets could result in the wiring being ripped from the conduit box and creating an electrical hazard.

WARNING: DO NOT MOVE THE STAND WHEN THE RAM IS EXTENDED

The heavy weight of the mixer in the raised position could cause the stand to topple if moved abruptly. To safely move the stand away from the tank, either remove the shaft, or angle the mixer to clear the tank wall. A heavy counterweight (optional) may also be installed on the bottom legs to bring the center of gravity down and make the stand more stable when moving (casters required).



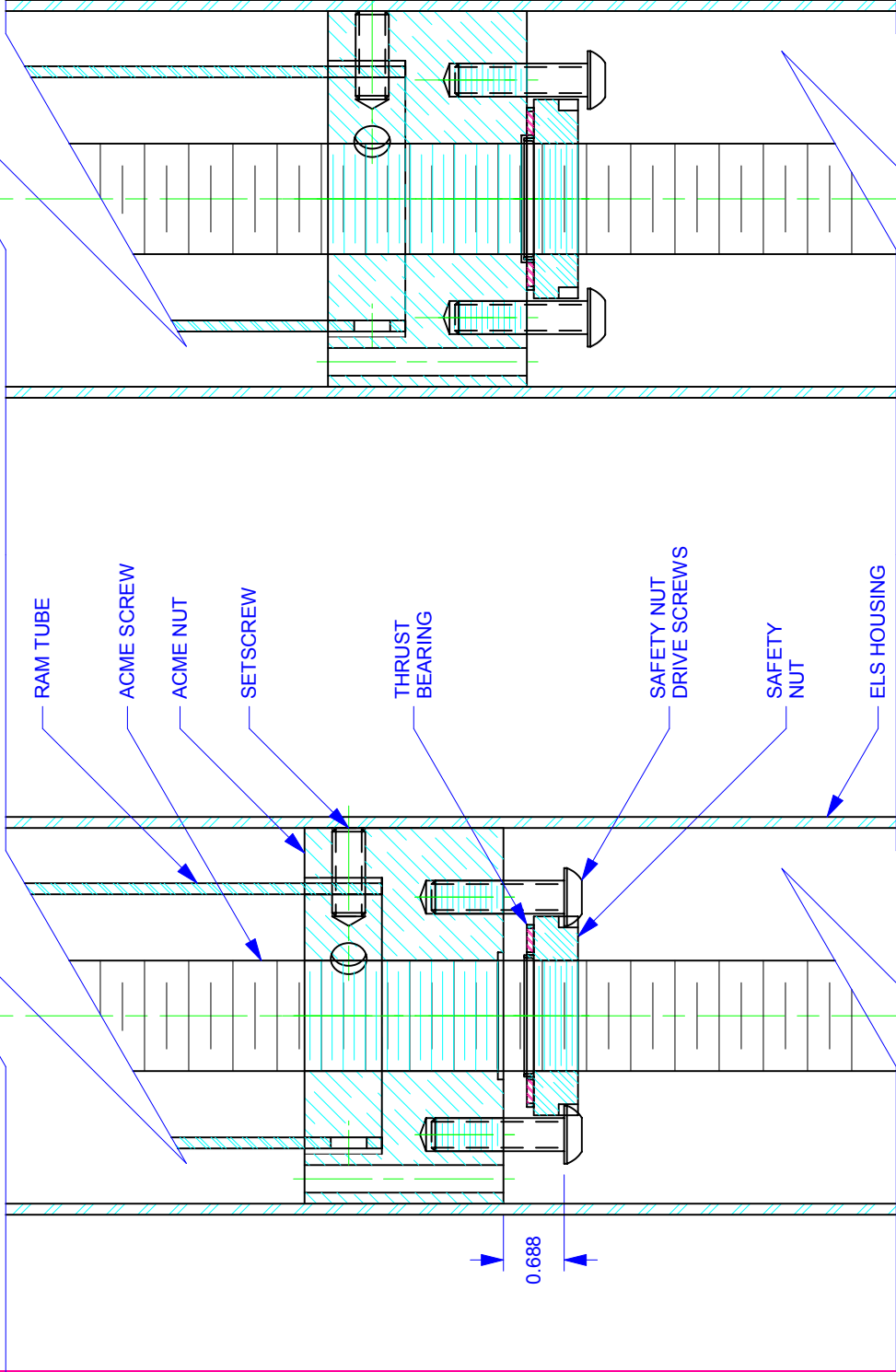
TROUBLE SHOOTING GUIDE

6.1 Your Sharpe Mixers Electric Lift Stand may need adjusting after initial operation to provide the best operation. The most common problem that occurs with any power screw-operated lift is binding or “chatter” during the raising or lowering of the screw. There are many adjustments to resolve this phenomenon:

- ✓ Adjust guide block to correct a misalignment between the cylinder ram and the torque arm shaft.
- ✓ Lube the torque arm shaft.
- ✓ Add or remove weight from the counterweight.

Contact Sharpe Mixers if there are any questions regarding the operation of this piece of equipment. Optional items may be ordered through our Parts Department at (800) 237-8815, ext. 103, or email at sales@sharpemixers.com

ELECTRICLIFT STAND INSTRUCTIONS #ELS-12205



RAM TUBE

ACME SCREW

ACME NUT

SETScrew

THRUST BEARING

SAFETY NUT DRIVE SCREWS

SAFETY NUT

ELS HOUSING

0.688

NOTE: DURING NORMAL OPERATION, ACME SCREW ROTATION DRIVES ACME NUT UP OR DOWN DEPENDING ON SCREW ROTATION.

SAFETY NUT DRIVE SCREWS DRIVE SAFETY NUT WITH RAM ASSEMBLY.

IN THE EVENT OF ACME NUT THREAD FAILURE, WEIGHT OF RAM ASSEMBLY WILL BE TRANSFERRED TO THE SAFETY NUT.

SAFETY NUT DRIVE SCREWS WILL DISENGAGE FROM SAFETY NUT.

SHOULD SUCH AN EVENT OCCUR, THE THRUST BEARING WILL ROTATE AGAINST THE ACME NUT AND SAFETY NUT WHICH WILL INDICATE ACME NUT THREAD FAILURE BY LACK OF VERTICAL MOVEMENT OF RAM TUBE.

WEARING PARTS SUCH AS ACME NUT SHOULD BE CHECKED FOR WEAR AND TEAR ANNUALLY.

CONSULT FACTORY FOR PARTS AND SERVICE.