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## EHLT-WSI Electric-Hydraulic Scissor Lift Tables



### Receiving Instructions

After delivery, remove the packaging from the product. Inspect the product closely to determine whether it sustained damage during transport. If damage is discovered, record a complete description of it on the bill of lading. If the product is undamaged, discard the packaging.

**NOTE:** The end-user is solely responsible for confirming that product design, use, and maintenance comply with laws, regulations, codes, and mandatory standards applied where the product is used.

### Technical Service & Replacement Parts

For answers to questions not addressed in these instructions and to order replacement parts, labels, and accessories, call our Technical Service and Parts Department at (260) 665-7586. The Department can also be contacted online at <https://www.vestil.com/page-parts-request.php>.

### Electronic Copies of Instruction Manuals

Additional copies of this instruction manual may be downloaded from <https://www.vestil.com/page-manuals.php>.

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## SIGNAL WORDS

This manual uses SIGNAL WORDS to indicate the likelihood of personal injuries, as well as the probable seriousness of those injuries, if the product is misused in the ways described. Other signal words call attention to uses of the product likely to cause property damage. The following are signal words used in this manual and their definitions.

### **⚠ DANGER**

Identifies a hazardous situation which, if not avoided, **WILL** result in **DEATH** or **SERIOUS INJURY**. Use of this signal word is limited to the most extreme situations.

### **⚠ WARNING**

Identifies a hazardous situation which, if not avoided, **COULD** result in **DEATH** or **SERIOUS INJURY**.

### **⚠ CAUTION**

Indicates a hazardous situation which, if not avoided, **COULD** result in **MINOR** or **MODERATE** injury.

### **NOTICE**

Identifies practices likely to result in product/property damage, such as operation that might damage the product.

## SAFETY INSTRUCTIONS

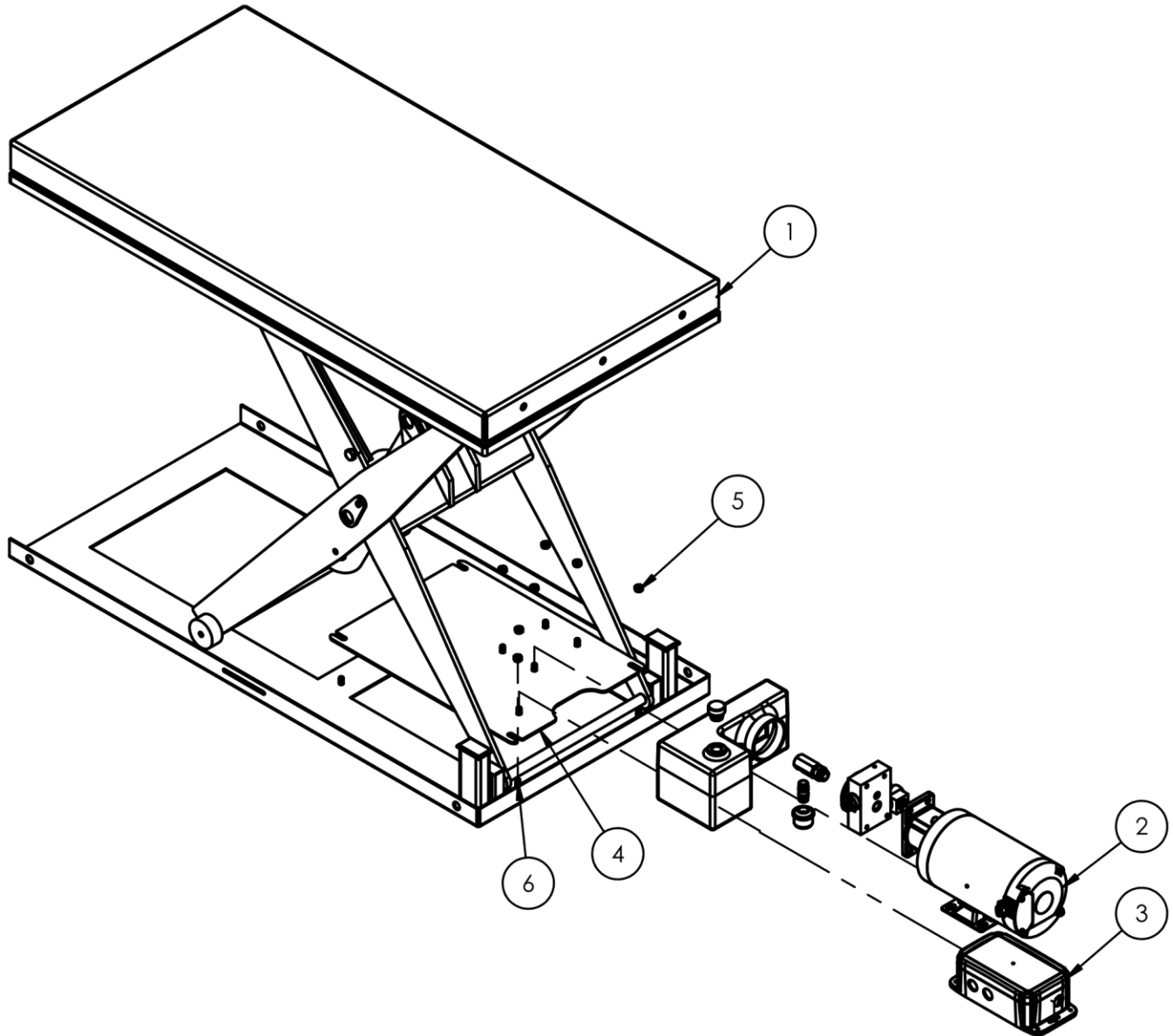
Vestil strives to identify all hazards associated with the use of our products. However, material handling is dangerous and no manual can address every risk. The most effective way to avoid injury is for the end-user to exercise sound judgment whenever using this product.

### **⚠ WARNING**

Improper or careless operation might result in serious personal injuries or death.

- Read the entire manual before assembling, installing, using, or servicing the table. A copy of this manual must be available at all times to persons who assemble, install, use, or service the table. Read the manual whenever necessary to refresh your understanding of use and maintenance procedures.
- This product presents pinch point and hydraulic pressure hazards to the user and bystanders. ALWAYS follow the instructions provided in this manual to avoid injury.
- DO NOT attempt to lift a load that weighs more than the capacity of your table. The table is labeled with its capacity. See Label 1153 as shown in [LABELING DIAGRAM](#) on p. 14. Handle only stable and safely arranged loads within the capacity of the table.
- DO NOT allow people to stand or sit on either the table or the load. DO NOT lift people with the table.
- Stand clear of the table while raising or lowering the tabletop. Particularly avoid pivot/pinch points while the tabletop rises and lowers.
- DO NOT attempt to lift an overhanging or cantilevered load.
- DO NOT reach through the legs or crawl under the tabletop unless maintenance stops are deployed.
- DO NOT use the table in corrosive environments.
- ONLY install the table on compacted, improved surfaces capable of supporting the combined weight of the table plus a maximum rated load. The installation surface must be even and level.
- DO NOT perform maintenance on this table or its power unit UNLESS the table is unloaded and maintenance stops are in place. ONLY install manufacturer-approved replacement parts.
- Center and evenly distribute loads on the tabletop.
- Strap loads to the tabletop when necessary to prevent rolling or sliding.
- Inspect the unit according to the [INSPECTING & MAINTAINING THE TABLE](#) instructions on 10 - 11. DO NOT use the table unless it is in [SATISFACTORY CONDITION](#). See [RECORD](#) on p. 8-9.
- Observe the tabletop while raising and lowering it. It should rise smoothly and evenly from side-to-side. Watch for binding or jerky movement. Listen for unusual noises. Tag the unit "Out of order" & remove it from service if you notice damage or observe (see or hear) anything about the table that is abnormal.
- Always watch the load carefully while raising and lowering the tabletop.
- DO NOT continue to press the UP button if the tabletop is fully elevated.
- Before leaving the table unattended, unload it and relieve hydraulic pressure by pressing the DOWN button and holding it until the tabletop is completely lowered.
- DO NOT use the table UNLESS all labels are in place & easily readable. See [LABELING DIAGRAM](#), p. 14.
- DO NOT modify this product in any way. Modifications automatically void the [LIMITED WARRANTY](#) and might make the table unsafe to use.

**EXPLODED VIEW: EHLT-WSI-####-1.5-## (01-006-527)**

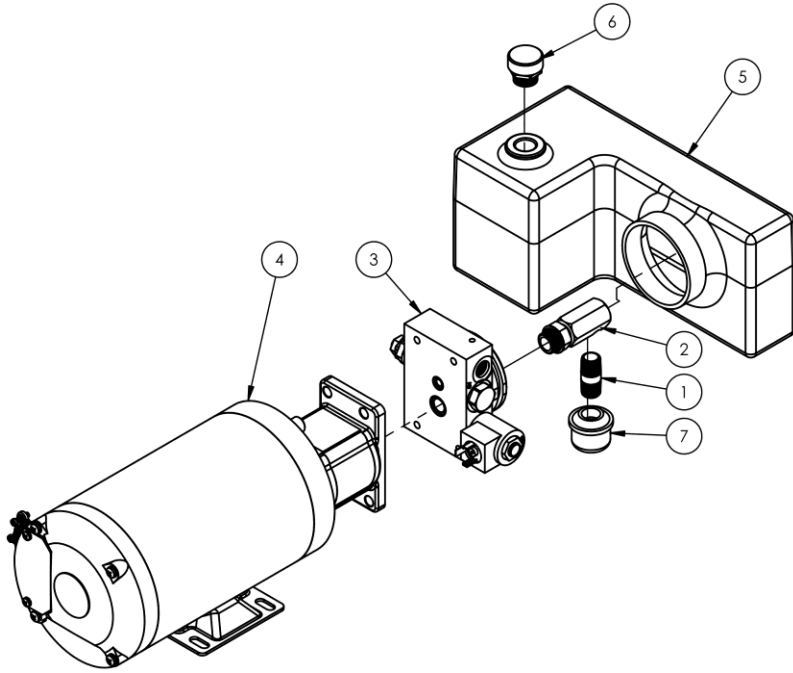


ITEM	PART NUMBER	DESCRIPTION	QTY.
1	01-002-527	FINAL ASSEMBLY W/O POWER UNIT	1
	01-002-528	EHLT-WSI-2448-1.5-36	1
	01-00-529	EHLT-WSI-3248-1.5-36 EHLT-WSI-4048-1.5-36	1
2	<a href="#">99-160-277</a>	POWER UNIT, SUB-ASSEMBLY, 208-230/460V AC, 3 PH, 1.4 HP, 1725 RPM, 0.122 DISP, 1.0 GPM FLOW CONTROL, L-H-L w/ .6 GAL, L-SHAPE TANK	1
3	99-529-200-001	SUB-ASSEMBLY, CONTROL, BOX, 7" X 4" X 3", NEMA	1
4	01-516-022	WELDMENT, MOTOR MOUNT	1
5	36104	HEX NUT, GRADE A, ZINC PLATED, 5/16-18	9
6	01-145-022	WELD STUDS	3

### POWER UNIT SUBASSEMBLY.

#### Power Unit: 24V, 1.4 HP, 3 PH, 1725RPM (99-160-277).

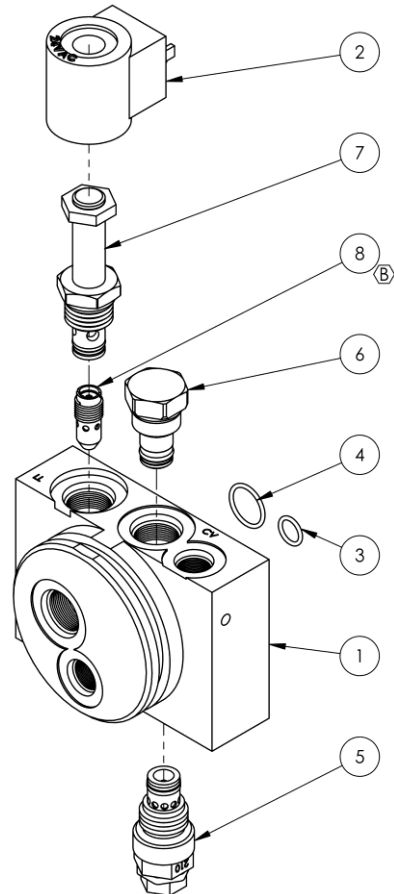
Contact the factory for replacement parts for your specific model. ALWAYS have the product serial number or model number on hand when calling the factory.



Item	Part no.	Description	Qty.
1	99-031-061	ACCESSORIES, PIPE, NIPPLE, 3/8" X 1 1/2"	1
2	99-116-001	SUCTION FITTING, MINI MANIFOLD	1
3	<a href="#">01-627-013</a>	SUB-ASSEMBLY, MANIFOLD, 24V COIL, LIFT-HOLD-LOWER, 1.0 GPM	1
4	99-137-048	MOTOR/PUMP, 208-230/460V AC, 3 PH, 1.4 HP, 1725 RPM, 0.122 DISP	1
5	99-023-114	RESERVOIR, 11 x 5 x 5	1
6	99-116-215	HYDRAULIC FITTING, BREATHER, 1/2" NPT, PLASTIC PMB	1
7	99-116-237	SUCTION STRAINER, 3/8" NPT	1

### MANIFOLD SUBASSEMBLY (01-627-013)

Item	Part no.	Description	Qty.
1	01-127-010	MANIFOLD, L-H-L	1
2	99-034-008	COIL WITH DIN CONNECTOR	1
3	99-144-008	O-RING, MANIFOLD, 1/2" OD	1
4	99-144-009	O-RING, MANIFOLD, 3/4" OD	1
5	99-153-006	VALVE, PRESSURE RELIEF, 210 BAR	1
6	99-153-011	CHECK VALVE, SIZE 08, NOSE-IN/SIDE-OUT	1
7	99-153-015	VALVE SOLENOID, STANDARD	1
8	99-153-038-001	FLOW CONTROL, PRES. COMP., 1.0 GAL.	1



# ELECTRIC CIRCUIT DIAGRAM

## ⚠ WARNING

Care should be taken to identify all potential hazards and comply with applicable safety procedures before beginning work. Ensure that all system pressure and electrical power have been removed before attempting to work on the electrical or hydraulic systems. Follow all applicable lockout/tagout procedures.

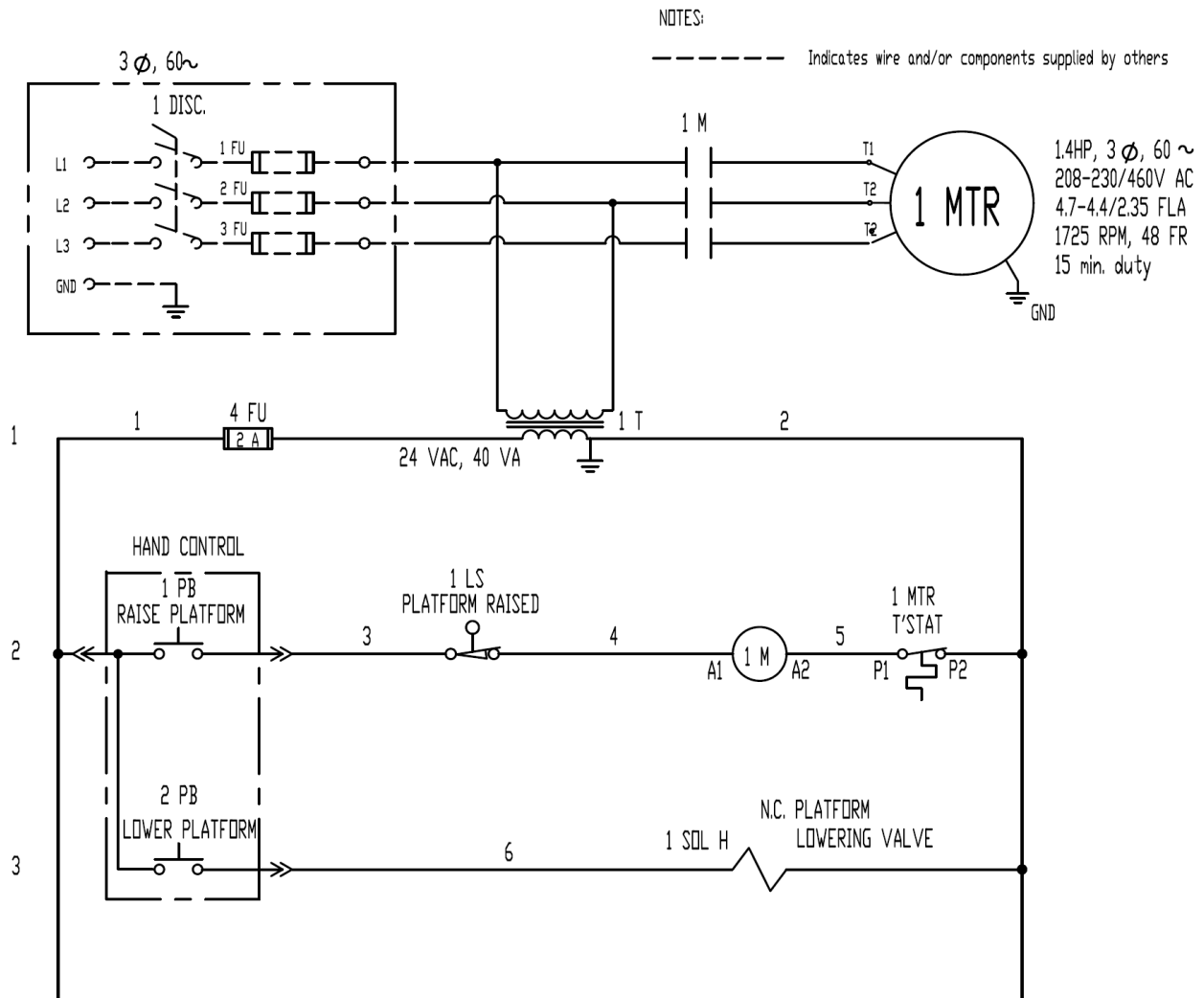
The load must be removed, and the platform either positively and adequately supported or fully lowered, before any work is performed on the lift table.

Only qualified individuals trained to understand mechanical devices and their associated electrical and hydraulic circuits, as well as the hazards associated with them, should attempt troubleshooting and repair of this equipment.

### 3-Phase Electric Circuit Diagram (01-124-027)

**Note:** Overcurrent & short circuit protection and disconnect must be provided by end user.

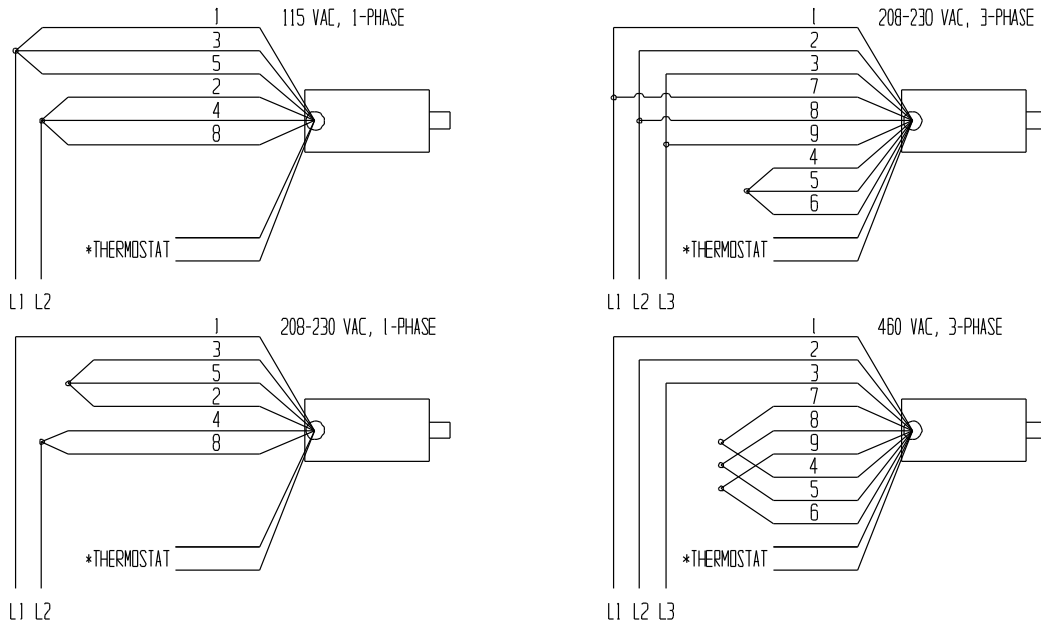
BRANCH CIRCUIT OVERCURRENT & SHORT-CIRCUIT PROTECTION & DISCONNECT ARE TO BE PROVIDED BY THE END-USER PER THE NEC (NFPA 70) & LOCAL CODES.



**BE SURE ALL POWER IS OFF BEFORE ATTEMPTING TO WORK ON THIS EQUIPMENT!**  
 CAUTION: SERVICE WORK SHOULD BE PERFORMED ONLY BY TRAINED & QUALIFIED PERSONNEL

### Motor Lead Connections (99124021).

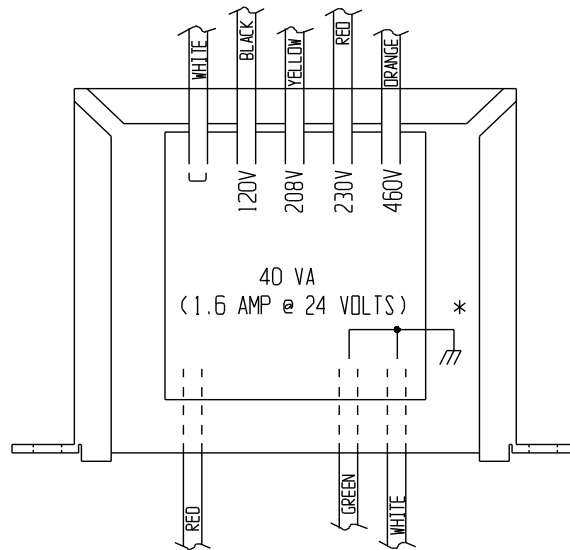
Applicable to all .5 HP, .75 HP, and 3 HP single-phase motors, and for all 2 HP, 5.5 HP, and 6.5 HP three-phase motors.



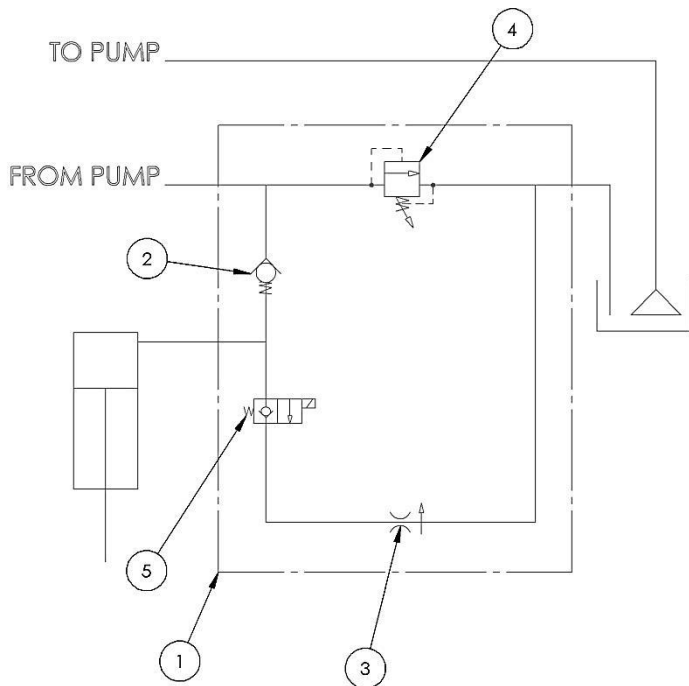
\* The two thermostat leads go to (1) the grounded side of the transformer secondary, and; (2) the motor relay coil. Polarity across the thermostat leads is not important.

<b>⚠ WARNING</b>	When changing the motor voltage configuration, you must also change the configuration of the control transformer to match the motor voltage.
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### Control Voltage Transformer (01129001 Rev. G).



## Hydraulic Schematic (01-125-008).



ITEM	PART NO.	DESCRIPTION	QTY
1	01-127-010	<a href="#">MANIFOLD, LHL</a>	1
2	99-153-011	<a href="#">CHECK VALVE, SIZE 08, NOSE-IN/SIDE-OUT</a>	1
3	99-153-038-001	<a href="#">FLOW CONTROL, 1.0 GPM, PRES. COMP.</a>	1
4	99-153-006	<a href="#">VALVE, PRESSURE RELIEF, 210 BAR</a>	1
5	99-153-015	<a href="#">VALVE SOLENOID, STANDARD, w/o COIL</a>	1

## **INSTALLATING THE TABLE**

Read the installation instructions in their entirety before installing the scissor lift table.

Consult the factory for answers to questions or for help with problems encountered during installation.

Modifications or additions to the lift table, without prior authorization by the manufacturer, automatically void the warranty. Attaching ancillary equipment to the platform causes a reduction of overall load capacity.

The installation must comply with all applicable regulations, codes, and standards of the jurisdiction where the table is installed and used. See current revision of ANSI standard [MH29.1, Safety Requirements for Industrial Scissor Lifts](#).

The end user is responsible for verifying that this lift table and its installation are suitable for its environment and application.

This lift table shall be installed only by qualified and trained personnel with access to appropriate equipment. Electrical connections shall be performed by a qualified electrician.

### **Before You Begin.**

The Electric Hydraulic Scissors Lift Table must be used on a smooth, level, and adequately strong concrete surface. If the lift table will be installed in a pit, first determine where and how the electrical and/or hydraulic connections will be made when the lift table is in place.

### **Tools and Supplies.**

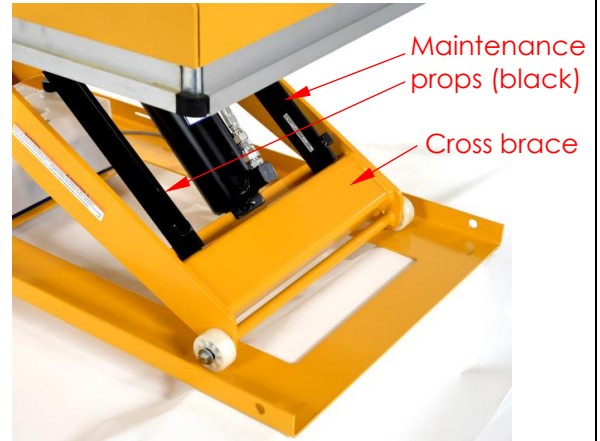
The following tools and supplies may be needed to install your Electric Hydraulic Scissor Lift Table. These items are not supplied with the product.

- A fork truck or hoist capable of unloading the lift table and setting it in place.
- A smooth, level concrete surface on which to mount the lift table.
- Power supply and electrical disconnect matching the motor voltage and current rating. Refer to the lift table's data plate, labels on the control enclosure, and the electrical diagrams in this manual. The end-user is responsible for providing the required ground fault and short circuit protection on the electrical supply. Motor overload protection is provided by a thermostat built into the motor.



**Installation.**

1. The platform must be lowered and fully supported under its frame when moved. Support the lift table with straps or forks that span the entire width or length of the base frame. Remove the 4x4 wood dunnage from the base frame. Avoid damaging the electrical and hydraulic components.
2. Move the lift table to the selected use location.
3. Temporarily connect the power supply to the power cable supplied with the lift table. Raise the platform near to its full raised height. Deploy the **maintenance props**, i.e. rotate the free ends of the prop into contact with the **cross brace**. Lower the platform until the maintenance props solidly contact the cross brace.



To raise the platform without using a power supply, use a hoist with straps or chain rigging, or the forks of a lift truck. Lift from the hinged end of the platform. Use the 4x4 wood dunnage to secure the base while lifting the platform.

4. A qualified electrician must make an appropriate, permanent connection to the power supply.
5. Operate the unloaded lift table through several complete raise-and-lower cycles. See [OPERATING THE TABLE](#) on p. 9-10. Verify that the **upper travel limit switch** (mounted on the base frame) prevents further upward travel of the platform.



6. Check the hydraulic oil level. The oil reservoir should be filled to within 1" to 1-1/2" of the fill hole. *Note: the reservoir is an integral part of the scissor mechanism on many models.* If oil is needed, use anti-wear hydraulic oil with a viscosity grade of 150 SUS at 100°F (ISO 32 at 40°C) or a non-synthetic automatic transmission fluid.
7. Clean the surfaces of the table, e.g. remove debris, oil, etc. Verify that all [labels](#) applied to the table are in satisfactory condition. See [RECORD](#); also see [LABELING DIAGRAM](#) on p. 14.

**RECORD OF SATISFACTORY CONDITION (THE "RECORD")**

After assembling and installing the scissor lift table, and before using it for the first time, make a record describing its appearance. Thoroughly photograph the lift table from multiple angles, making sure to photograph welds, pivot points, and all of the labels. Describe where each label is located. Collect the photographs and writings in a file. Mark the file appropriately to identify it. This file is a record of the table in satisfactory condition. Compare the results of all inspections to this record to determine whether the table is in satisfactory condition. Do not use the table unless it is in satisfactory condition. Purely cosmetic changes,



like damaged paint or powder coat, do not constitute changes from satisfactory condition. However, touchup paint should be applied to all affected areas as soon as damage occurs.

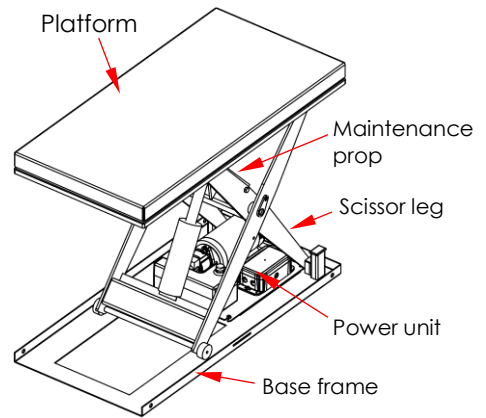
## OPERATING THE TABLE

Consult [ANSI standard MH29.1](#), and read about the owner's/user's responsibilities regarding the operation, care, and maintenance of this machine.

The owner of this table must ensure that all operators understand that safe operation is their responsibility. The owner must also ensure that operators are knowledgeable of, and observe, the safety rules and practices in this section.

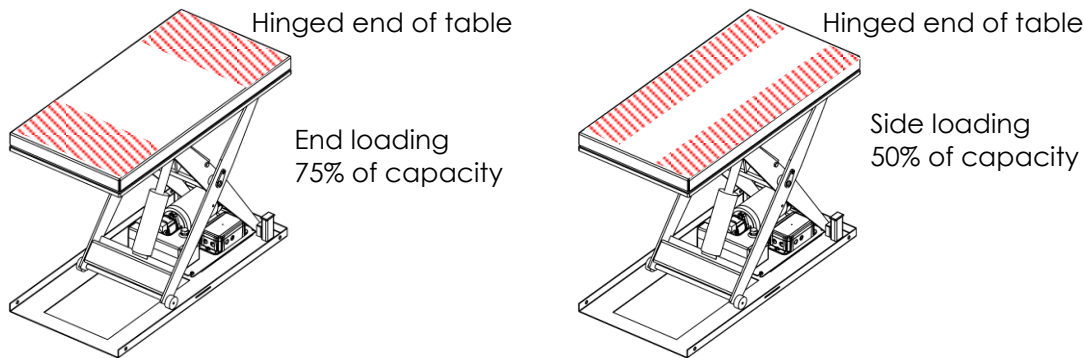
Standard EHLT-WSI series lift tables are suitable for use indoors in most non-classified industrial locations as well as many commercial locations. It is intended to lift stable, evenly-distributed, nonhazardous materials having a size or footprint approximately the same size as, or smaller than, the platform.

The drawing identifies major components of your lift table.



### Loading the platform.

The load rating, in pounds, is shown on the machine data plate located on the hinged end of the platform. This indicates the net capacity of the table for a static load that is centered and evenly distributed on the platform. For off-center loads, the lift table's maximum capacity is 75% of the rated capacity for end loading (either end), and 50% for side loading (either side) (see diagram). NOTE: Do not drop loads onto the platform.



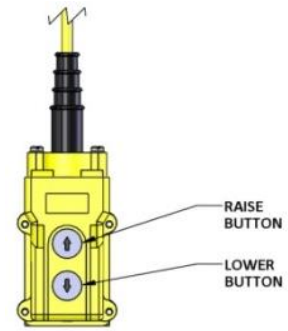
<p><b>⚠ WARNING</b></p>	<p>DO NOT exceed the lift table's load ratings. Injury to personnel or permanent damage to the lift table can result from exceeding the listed capacity. Note: Take into account the weight of any equipment added to the platform by third parties when determining the maximum working load to be placed on the platform.</p> <p>The platform rollers are not captured. DO NOT overhang any load over the side of the platform. A cantilevered or overhanging load at the hinged end can cause the platform to tilt and dump the load. For applications involving side or end edge loading, consult the factory.</p> <p>This lift table is not approved for lifting personnel.</p>
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### Operation.

At the beginning of every shift, check the condition of the toeguards, controls, scissor mechanisms, hydraulic lines, and limit switches. If any item is in need of repair or otherwise contributes to an unsafe condition, remove the lift table from service until it has been restored to a satisfactory condition. See [RECORD OF SATISFACTORY CONDITION](#) on p. 8-9.

The standard EHLT-WSI scissor lift table is provided with a handheld pushbutton control that connects to an integral, electric-hydraulic power unit.

- Pressing the **↑** (RAISE) pushbutton energizes the power unit and raises the platform. The platform rises only while the button is pressed. Releasing the button causes the platform to stop & hold position. A limit switch shuts off the motor when the platform reaches its maximum height.
- Press the **↓** (LOWER) pushbutton to open the hydraulic valve and lower the platform. The platform descends by gravity, and the pump motor will not run. Release the pushbutton to stop the table's descent.
- Lowering speed is preset at the factory and cannot exceed 30 fpm. In the event of a hydraulic line failure, a velocity fuse in the cylinder prevents the platform from lowering.
- Each table is provided with hydraulic overload protection to prevent hydraulic system damage that could result from attempting to raise a load that exceeds the table's capacity.



<b>⚠ CAUTION</b>	<i>Watch the area around the table &amp; load on the platform while operating the table. Never use the table if any damage or unusual noise is observed, if it is in need of repair, or if any malfunction is observed. Notify your supervisor or maintenance personnel.</i>
<b>⚠ WARNING</b>	<i>Keep all personnel clear of the machine when it is in operation. Before operating the lift table, make certain no part of any person or object is under the platform. Guards shall be in place before operating the lift table. Guards cannot protect against every possible condition and cannot a substitute for good judgment &amp; care in use, loading, handling, storage, etc. of the table.</i>

## INSPECTING AND MAINTAINING THE TABLE

Regular maintenance is necessary to maximize the service life of this product. Compare all inspection results to the [RECORD OF SATISFACTORY CONDITION](#) discussed on p. 8-9. Only use the table if it is in satisfactory condition. If an inspection reveals any changes from satisfactory condition, complete all repairs (restore satisfactory condition) before returning the table to service. Only use manufacturer-approved replacement parts. DON'T GUESS! Contact [TECHNICAL SERVICE](#) if you have questions that are not addressed in these instructions or if you are uncertain how to address an issue discovered during an inspection. Contact Technical Service by calling (260) 665-7586 and asking for the Technical Service and Parts Department, or by submitting your questions through Vestil's online parts and service portal at <https://www.vestil.com/page-parts-request.php>.

<b>⚠ WARNING</b>	<i>Identify hazards &amp; apply relevant safety procedures before beginning work. Remove any load and install the maintenance stops before beginning any inspection or service on the lift table. See below.</i>
<b>NOTICE</b>	<p>Proper use and regular maintenance are essential for this product to function properly.</p> <ul style="list-style-type: none"> <li>• Periodically lubricate pivot points with bearing grease.</li> <li>• Keep the product clean &amp; dry. Only install and use this table indoors.</li> <li>• Only use manufacturer-approved replacement parts. Order replacement/spare parts for this equipment by contacting the <a href="#">TECHNICAL SERVICE DEPARTMENT</a>.</li> <li>• DO NOT use brake fluid or jack oils in the hydraulic system. If oil is needed, only use an anti-wear hydraulic oil with a viscosity grade of 150 SUS at 100°F, (ISO 32 cSt @ 40°C), or Dexron transmission fluid.</li> <li>• Contact the manufacturer for SDS (Safety Data Sheet) documentation</li> </ul>

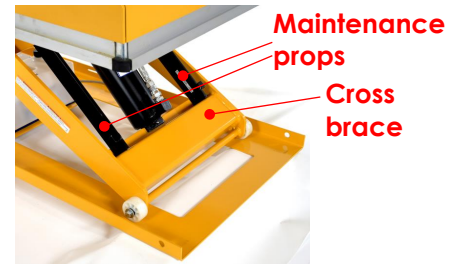
*Only qualified individuals trained to understand mechanical devices, electrical and hydraulic circuits, and the hazards associated with them, should attempt troubleshooting or repair of this equipment.*

### Inspection procedures.

Prior to performing any inspection or maintenance on this lift table:

- Read and understand these maintenance procedures.
- Unload the platform. Do not attempt to service a loaded lift table.

- Deploy the maintenance props to support the weight of the platform. To use the maintenance props, raise the platform to its maximum height. Pivot both props towards the cross brace. Lower the platform until the free ends of the props solidly press against the brace.
- Disconnect power and follow established lockout/tagout policies.



**Deploy maintenance props (black)**

### Initial inspection.

Before using any new, altered, modified, or repaired scissor lift table, it must be inspected by a qualified person. Complete both the daily & monthly inspections (below) before approving the lift table for regular use.

### Daily inspection.

At the beginning of each shift, a designated person shall complete these inspections. Remove the lift table from service and repair or replace any damaged parts if any of the following is found.

1. Look for:
  - a. Frayed wires.
  - b. Oil leaks.
  - c. Pinched, chafed, worn, or cracking hydraulic hoses.
  - d. Damage, deformation, or cracks in any structural member or any weld. Give special attention to the hydraulic cylinder mounting brackets.
  - e. Loose or missing fasteners.
  - f. Unusual noise or evidence of binding.
2. Test the function of the upper travel limit switch. See [INSTALLATION, Step 5 diagram](#) on p. 8.

### Monthly inspection.

Have a qualified person inspect for:

1. Low oil level. The oil should be 1" to 1-½" below the reservoir fill hole with the platform in the fully lowered position. See the Annual Inspection section for the hydraulic oil specification.
2. Worn or damaged hydraulic hoses or electrical wires.
3. Wear in the pivot points on the scissor legs.
4. Looseness or wear in the rollers.
5. Integrity of the retaining hardware on all rollers and all pivot point pins.
6. Integrity of the base frame and for cracks in the concrete surrounding it.
7. Proper functioning of hand- or foot-operated mechanisms.
8. Unusual noises or movement during operation.
9. Condition of all information, safety, and warning labels. These should be clean and easily legible.
10. Dirt and debris. Clean, sweep, or wipe down as needed.

### Annual inspection.

Check the condition of the oil. Change the oil if it darkens, becomes gritty, or turns a milky color (indicating the presence of water). Replace with an anti-wear hydraulic oil with a viscosity grade of 150 SUS at 100°F (ISO 32 cSt @ 40°C), such as AW 32, HO 150 or Dexron non-synthetic transmission fluid. You may use a synthetic transmission fluid if you flush the system with the synthetic fluid before filling the reservoir. 150 SUS at 100°F (ISO 32 cSt @ 40°C) or Dexron transmission fluid.

### Solenoid valve maintenance.

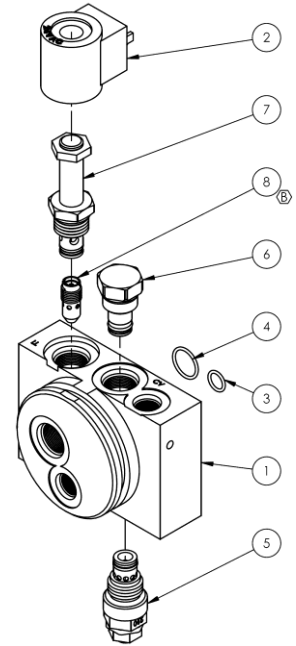
If the platform slowly lowers on its own, it will be necessary to remove the lowering cartridge valve for inspection and cleaning.

1. Remove any load from the platform.
2. Raise the platform. Place the maintenance props on top of the cross brace. Lower the platform until it is supported by the props.
3. Locate the power unit and find the manifold. See [POWER UNIT SUBASSEMBLY](#), part no. 01-627-013, on page 4. The manifold assembly is located between the motor and the reservoir. It is shown in exploded view on right side of this page.

**SOLENOID VALVE**  
99-153-015



4. Remove the nut holding the solenoid coil (item 2), right) on the solenoid valve stem (7). Remove the coil (2) and unscrew the valve (7) from the manifold.
5. Inspect the valve for contaminants. Inspect the O-rings and back-up washers for cuts, tears, or other damage.
6. With the valve immersed in mineral spirits or kerosene, insert a thin tool such as a small screwdriver or a small hex wrench into the hole at the bottom of the valve. Push the spool in and out several times. A properly functioning spool should move freely, with about 1/16" of travel. Use mineral spirits to flush the valve.
7. If the spool continues to stick, the stem could be bent. The valve will need to be replaced if the stem is bent.
8. Blow the valve off with a compressed-air gun while again pushing the spool in and out.
9. Inspect the bottom of the valve cavity (in the manifold) for contaminants.
10. Make sure both O-rings and outer seal (flat) are properly seated on the valve body. Make sure the screen filter is in place and seated at the bottom of the threads on the valve body (illustration).
11. Reinstall the solenoid valve, tightening to 20 lb·ft of torque. Reattach the solenoid coil and the retaining nut.

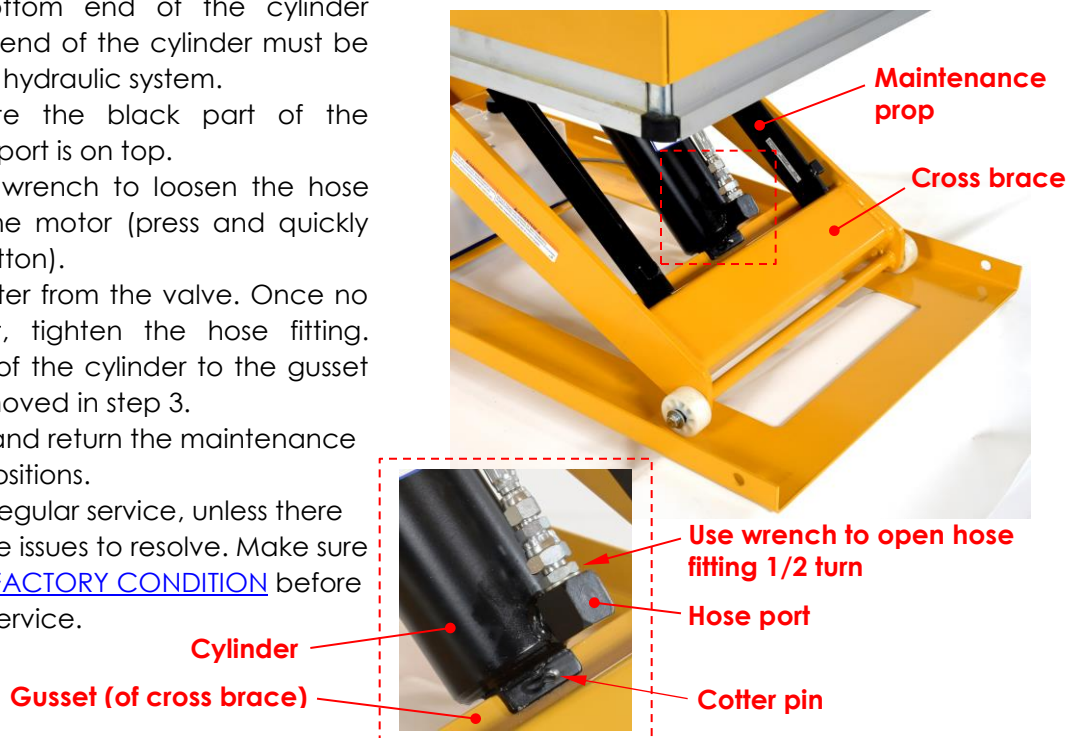


### Bleeding Air from the Hydraulic Cylinder.

Air can enter the hydraulic system at any time its components are opened for service. Symptoms of air in the system include erratic or jerky motion of the platform, sponginess in holding position, unusual noises, or foaminess of the hydraulic fluid. Trapped air can also close the cylinder's velocity fuse which slows or prevents the cylinder from lowering.

Cycling the platform up and down without a load can expel much of the trapped air through the hydraulic reservoir. If it becomes necessary to bleed air from the system:

1. Remove any load from the platform.
2. Raise the platform. Pivot the maintenance props towards the cross brace. Set the free ends of the props on the gusset (of the cross brace).
3. Remove the cotter pin from the bottom end of the cylinder. Gently push the bottom of the cylinder up to retract the cylinder sufficiently that the bottom end of the cylinder disconnects from the gusset. DO NOT push up too forcefully. The maintenance props must maintain solid contact with the cross brace and gusset!
4. Swing the free/bottom end of the cylinder upwards. The bottom end of the cylinder must be the highest part of the hydraulic system.
5. If necessary, rotate the black part of the cylinder until the hose port is on top.
6. Use an adjustable wrench to loosen the hose fitting 1/2 turn. Jog the motor (press and quickly release the UP pushbutton).
7. Oil and air will sputter from the valve. Once no more air comes out, tighten the hose fitting. Connect the bottom of the cylinder to the gusset with the cotter pin removed in step 3.
8. Raise the platform and return the maintenance props to their stored positions.
9. Return the table to regular service, unless there are other maintenance issues to resolve. Make sure that the unit is in [SATISFACTORY CONDITION](#) before returning it to regular service.





# TROUBLESHOOTING GUIDE

⚠ **WARNING**

Care should be taken to identify all potential hazards and comply with applicable safety procedures before beginning work.  
 Remove any load and install the maintenance props before beginning any inspection or service on the lift table. See below.

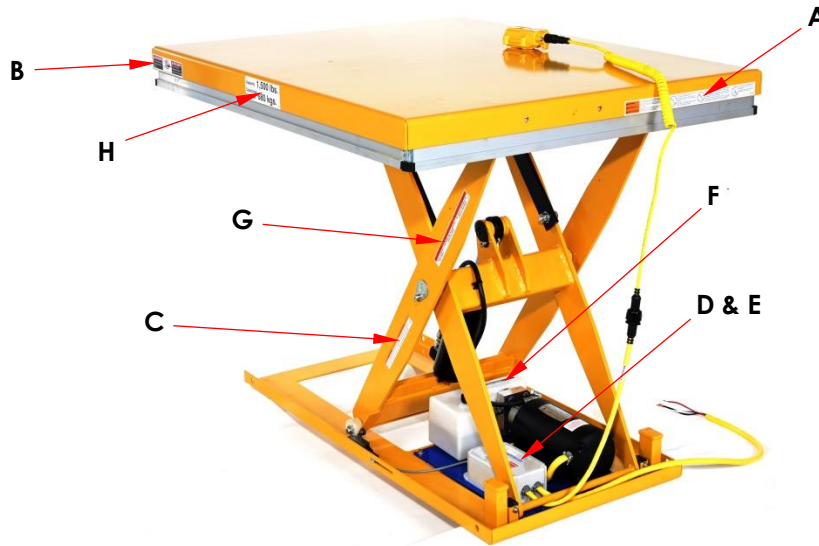
Only qualified individuals trained to understand mechanical devices, electrical and hydraulic circuits, and the hazards associated with them, should attempt troubleshooting and repair of this equipment.  
 Consult the factory for any problems not addressed in this manual. ALWAYS have the product serial number or model number on hand when calling the factory.

PROBLEM	POSSIBLE CAUSES	ACTION
Power unit doesn't run when the  (RAISE) button is pressed.	Transformer fuse is blown.	Test with meter. Replace if bad.
	No supply voltage.	Test with meter. Check fuses, breakers, and overloads to determine the cause
	Upper-travel limit switch is engaged or bad.	Inspect and test switch. Replace if bad.
	Bad control transformer.	Check for 24 VAC at secondary. Replace if bad.
	Bad motor relay coil.	Test with meter. Replace if bad.
	Bad solenoid start switch (DC units).	The green LED on motor relay will be off, or will turn off when the UP pushbutton is pressed.
	Battery voltage low (DC units).	Test with meter. Charge battery if low (is the motor relay LED on?)
Motor runs but platform doesn't move. Power unit not noisy.	Motor rotation is wrong (AC-powered units only).	Verify the motor runs CW, opposite the shaft end.
	Pump is failing to produce pressure.	<a href="#">Contact Technical Service.</a>
Motor hums or pump squeals, but the platform does not move, or the platform moves only slowly.	Pump is failing to produce pressure.	<a href="#">Contact Technical Service.</a>
	Excess voltage drop to motor, due to power wire size too small, wire-run too long, or incoming voltage too low.	Check the power installation for adequacy. Check the incoming voltage <i>while the motor is running</i> . Correct any problems found.
	Motor is "single-phasing".	Determine and correct cause of voltage loss on phase.
	Pressure relief opening at full pressure.	Check for structural damage or binding of the scissor legs, etc. Check for platform overload condition.
	Contamination holding open the lowering valve or the check valve.	Remove and inspect valves. Clean per instructions in the " <a href="#">Inspecting and Maintaining</a> " section.
Platform elevates, then drifts down.	Contamination holding open the lowering valve or the check valve.	Remove and inspect valves. Clean per instructions in " <a href="#">Inspecting and Maintaining</a> " section.
Spongy or jerky platform movement.	Excessive air in the hydraulic cylinders.	Bleed air per procedure described in the " <a href="#">Inspecting and Maintaining</a> " section.
Platform won't lower.	Solenoid coil is bad.	Check with multimeter using the diode-check function. (Reading for ohms will not provide an accurate test of the coil). Replace if bad.
	Physical blockage of the mechanism.	Inspect for foreign material or objects blocking the scissors or the rollers.
	Solenoid valve, flow control, or suction hose screen plugged.	Remove and inspect valves. Clean per instructions in " <a href="#">Inspecting and Maintaining</a> " section.
Platform lowers too slowly.	Solenoid valve, flow control, or suction hose screen plugged.	Remove and inspect valves. Clean per instructions in " <a href="#">Inspecting and Maintaining</a> " section.
	Velocity fuse locking (indicated by platform only slowly creeping down).	Check for air in hydraulic system. Bleed air as needed.
	Flow control valve spool sticking.	Remove and inspect valves. Clean per instructions in " <a href="#">Inspecting and Maintaining</a> " section.
Platform lowers too quickly.	Flow control valve spool sticking.	Remove and inspect valves. Clean per instructions in " <a href="#">Inspecting and Maintaining</a> " section.

# LABELING DIAGRAM

Label content and location are subject to change so your product might not be labeled exactly as shown. Thoroughly photograph the lift table when you first receive it as discussed in the [RECORD OF SATISFACTORY CONDITION](#) section on p. 8-9. Make sure that your Record includes a photograph of each label. Replace all labels that are or later become damaged, missing, or not easily readable (e.g. faded).

To order replacement labels, contact the [TECHNICAL SERVICE AND REPLACEMENT PARTS DEPARTMENT](#) online at [http://www.vestilmfg.com/parts\\_info.htm](http://www.vestilmfg.com/parts_info.htm). Alternatively, you may request replacement parts and/or service by calling (260) 665-7586 and asking the operator to connect you to the Parts Department.



**A: Label 207** applied to rear flange of platform

<p><b>⚠ WARNING</b></p> <p>DO NOT EXCEED RATED CAPACITY. DISTRIBUTE LOAD EVENLY. READ OWNERS MANUAL BEFORE OPERATING OR REPAIRING LIFT.</p>	<p>NO EXCEDA LA CAPACIDAD TABADA. DISTRIBUYA LA CARGA UNIFORMEMENTE. LEA EL MANUAL DEL PROPIETARIO ANTES DE USAR O REPARAR EL ELEVADOR.</p>	<p><b>⚠ ADVERTENCIA</b></p> <p>NO PONGA MANOS, PIES U OBJETOS DEBAJO DEL BORDE. DESCienda LA PLATAFORMA LENTAMENTE.</p>	<p>NE PONGA MANOS, PIES U OBJETOS DEBAJO DEL BORDE. DESCienda LA PLATAFORMA LENTAMENTE.</p>	<p><b>⚠ AVERTISSEMENT</b></p> <p>NE PAS DÉPASSER CHARGE NOMINALE. RÉPARTIR ÉGALEMENT LE CHARGEMENT SUIVRE LE GUIDE D'UTILISATION AVANT D'UTILISER OU DE RÉPARER LE PORTÉLEVATEUR.</p>	<p>NE PAS METTRE LES MAINS, LES PIEDS OU TOUT OBJET SOUS LE PLATEAU SUPÉRIEUR. DESCENDRE LA PLATE-FORME LENTEMENT.</p>	<p><b>⚠ WARNING</b></p> <p>DO NOT WORK UNDER LIFT WITHOUT SAFETY BLOCK OR WHILE LOADED. KEEP CLEAR OF MOVING SCISSOR LEG MECHANISM.</p>	<p>NO TRABAJE DEBAJO DEL ELEVADOR SIN LOS FRENO DE SEGURIDAD O CUANDO ESTE CARGADO. MANTENGASE ALEJADO DEL MECANISMO DE TIERRA EN MOVIMIENTO.</p>	<p><b>⚠ ADVERTENCIA</b></p> <p>NO SE SIENTE. SE PARE O VIAJE EN EL ELEVADOR.</p>	<p>NE PAS SE TENIR DEBOUT. S'ARRÊTER OU MONTER SUR L'ELEVATEUR.</p>
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**B: Label 824** applied to side flange of platform on both sides

<p><b>⚠ DANGER</b></p> <p>To avoid bodily injury, stand clear while in motion.</p>		<p><b>⚠ PELIGRO</b></p> <p>Para evitar daños, manténgase alejado cuando en movimiento.</p>
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**C: Label 208** applied on both outer scissor legs

<p><b>⚠ WARNING</b></p> <p>KEEP CLEAR OF PINCH POINT</p>	<p><b>⚠ ADVERTENCIA</b></p> <p>MANTENGASE ALEJADO DEL PUNTO DE CORTE</p>	<p><b>⚠ AVERTISSEMENT</b></p> <p>SE TENIR À DISTANCE DU POINT DE PINCEMENT</p>
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**D: Label 221** applied to junction box

<p><b>⚠ DANGER</b></p> <p>ELECTRICAL SHOCK Shut power off and consult owners manual before working on this equipment.</p>	221 Rev 0111
<p><b>⚠ PELIGRO</b></p> <p>Corte la corriente consulte el manual de propietario antes de trabajar en este equipo.</p>	
<p><b>⚠ DANGER</b></p> <p>CHOC ELECTRIQUE Couper le courant et consulter le manuel d'utilisation avant de travailler sur cet équipement.</p>	

**E: Label 248** Applied to junction box

<p><b>NOTICE</b></p>	<p><b>NOTA</b></p>	<p><b>AVIS</b></p>
POWER SUPPLY:	V/ Phase/ HZ	
CONTROL VOLTAGE:	V AC	
CORRIENTE:	V/ Fase/ HZ	
VOLTAGE DE CONTROL:	V CA	
ALIMENTATION ÉLECTRIQUE:	V/ Monophasé/ HZ	
VOLTAGE DE CONTRÔLE:	V AC	

**F: Label 206** top of oil reservoir

<p><b>ISO 32 / 150 SUS</b></p>
<p>HYDRAULIC OIL OR NON-SYNTHETIC TRANSMISSION FLUID ACEITE HIDRAULICO O LIQUIDOS DE TRANSMISION NO SINTETICOS HUILE OU LIQUIDE HYDRAULIQUE NON-SYNTHÉTIQUE</p>
<p>206 Rev 1013</p>
<p>VESTIL MANUFACTURING CORPORATION • Phone (260) 665-7588 • www.vestil.com</p>

**G: Label 269** both sides of base frame

<p><b>⚠ WARNING</b></p> <p>INSTALL ALL SUPPLIED MAINTENANCE STOPS before any maintenance is performed on unit. DO NOT perform maintenance with load on unit.</p>	<p><b>⚠ ADVERTENCIA</b></p> <p>INSTALE TODAS LAS PARADAS DE MANTENIMIENTO SUMINISTRADAS antes de hacer cualquier reparación en la unidad. NO haga ninguna reparación con la unidad cargada.</p>
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**Data Tag: Label 1153** covered with 770 applied to rear flange of platform

MODEL / MODÉLO / MODÈLE _____
WEIGHT / PESO / MASS _____
CAPACITY / CAPACIDAD / CAPACITÉ _____
SERIAL / SERIE / SÉRIE _____
UNITS: 2.2 lb. = 1kg      1" (or 1in.) = 2.54cm      1153





## LIMITED WARRANTY

Vestil Manufacturing Company ("Vestil") warrants this product to be free of defects in material and workmanship during the warranty period. Our warranty obligation is to provide a replacement for a defective, original part covered by the warranty after we receive a proper request from the Warrantee (you) for warranty service.

### Who may request service?

Only a warrantee may request service. You are a warrantee if you purchased the product from Vestil or from an authorized distributor AND Vestil has been fully paid.

### Definition of "original part"?

An original part is a part used to make the product as shipped to the Warrantee.

### What is a "proper request"?

A request for warranty service is proper if Vestil receives: 1) a photocopy of the Customer Invoice that displays the shipping date; AND 2) a written request for warranty service including your name and phone number. Send requests by one of the following methods:

<u>US Mail</u>	<u>Fax</u>	<u>Email</u>
Vestil Manufacturing Company 2999 North Wayne Street, PO Box 507 Angola, IN 46703	(260) 665-1339 <u>Phone</u> (260) 665-7586	<a href="mailto:info@vestil.com">info@vestil.com</a> Enter "Warranty service request" in subject field

In the written request, list the parts believed to be defective and include the address where replacements should be delivered. After Vestil receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Vestil will require you to send the entire product, or just the defective part (or parts), to its facility in Angola, IN.

### What is covered under the warranty?

The warranty covers defects in the following original, dynamic parts: motors, hydraulic pumps, motor controllers, and cylinders. It also covers defects in original parts that wear under normal usage conditions ("wearing parts"), such as bearings, hoses, wheels, seals, brushes, and batteries.

### How long is the warranty period?

The warranty period for original dynamic components is 1 year. For wearing parts, the warranty period is 90 days. Both warranty periods begin on the date Vestil ships the product to the Warrantee. If the product was purchased from an authorized distributor, the periods begin when the distributor ships the product. Vestil may, at its sole discretion, extend a warranty period for products shipped from authorized distributors by up to 30 days to account for shipping time.

### If a defective part is covered by the warranty, what will Vestil do to correct the problem?

Vestil will provide an appropriate replacement for any covered part. An authorized representative of Vestil will contact you to discuss your claim.

### What is not covered by the warranty?

The Warrantee (you) are responsible for paying labor costs and freight costs to return the product to Vestil for warranty service.

### Events that automatically void this Limited Warranty.

- Misuse;
- Negligent assembly, installation, operation or repair;
- Installation/use in corrosive environments;
- Inadequate or improper maintenance;
- Damage sustained during shipping;
- Collisions or other accidents that damage the product;
- Unapproved modifications: Do not modify the product IN ANY WAY without first receiving written authorization from Vestil.

### Do any other warranties apply to the product?

Vestil Manufacturing Co. makes no other express warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty. Vestil makes no warranty or representation that this product complies with any state or local design, performance, or safety code or standard. Noncompliance with any such code or standard is not a defect in material or workmanship.