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Test Light Instructions

PART #: F-01TL

MANDATORY
LEAVE THIS MANUAL WITH LIFT OWNER

Use this manual to troubleshoot the electronics of your Aqua Creek Pool Lift. Testing procedures are similar on several models; your pool lift may vary slightly from pictures.

Figure 1 shows Linak control box and battery while **Figure 2** shows a Vito control box and battery. Both figures indicate corresponding control box ports marked A, B, C and D. **A** is the handset remote port, **B** is the actuator port, **C** is the rotational port (not applicable to all applications) and **D** is the battery or solar charger port.

Figure 1

Figure 2

Handset Remote
Port A

Actuator
Port B

Rotate Motor
Port C

Battery
Port D

Solar Charger
Port D
(optional)

All lifts must have a handset remote plugged into Port A and a lifting actuator plugged into Port B. Lift models that include a powered rotate function will have the rotation motor plugged into Port C. All Vito control boxes will have the battery cable plugged into Port D. Linak systems will only use Port D for the optional solar charging station. The control box test light is used to see if the control box and handset are functioning properly.

Test light

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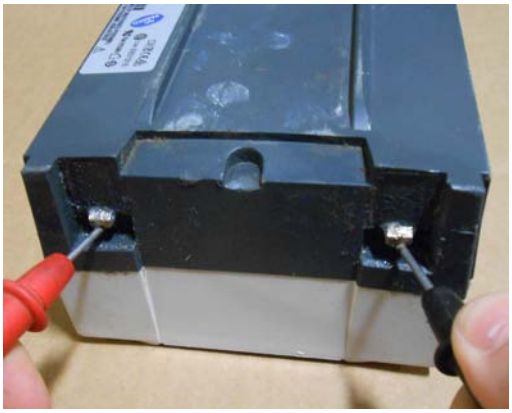
Step 1a: Make sure the battery is in good working order and fully charged. The battery voltage can be checked with a volt meter and should read at least 25.0VDC (see figures 3 & 5). Vito batteries require the battery test cable (see figure 4). If battery reads less than 25.0VDC after a full charge either the battery or the charger will need replaced (see step 1b). If the battery has at least 25.0VDC and is properly attached to the control box, move on to step 2.

Figure 3



Touch volt meter prongs to the battery terminals on the Linak battery

Figure 4

Touch volt meter prongs to the inside of the battery test cable for the Vito battery

Figure 5

Volt meter should read at least 25.0VDC

Step 1b: The charging unit can also be tested with a volt meter. The charger should read between 27.0 VDC and 29.0 VDC. For a Linak battery charger, make sure it is plugged into a 110 VAC power outlet. Touch the charger terminal with the volt meter leads (as shown in figure 6) to test voltage. If the voltage is not between 27.0 VDC and 29.0 VDC the charger likely needs replaced. For a Vito battery charger, make sure it is plugged into a 110 VAC power outlet. Then plug the battery into the charger to trigger initial power to the terminal. Once the full circuit is established, unplug the battery and test the male charger plug with the volt meter. One volt meter prong will go inside the plug and the other must be touched to the outside of the plug as shown in figure 7. If the voltage is not between 27.0 VDC and 29.0 VDC the charger likely needs replaced.

Figure 6

Touch volt meter prongs to the charger terminals on the Linak charger

Figure 7

Touch one volt meter prong to the inside of plug and the other to the outside of plug on the Vito charger

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Step 2a: Linak batteries must be properly clipped in place, on top of the control box, for the terminals to make contact. The battery will be firmly secured to the bracket and control box when properly clipped in place. The battery terminals are spring loaded tabs, and in some cases can be bent in too far to make contact. This can be easily fixed by stretching the spring tabs out with a screw driver. Be careful to not stretch them too far or they could be damaged.

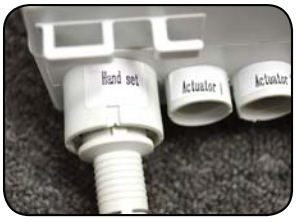
Step 2b: Make sure all the cables are plugged securely into the ports and test the lifts function. A loose cable, not fully plugged into its port will cause the lift to malfunction. If all cables are plugged in securely and the lift will not raise or lower, then move to step 3. If equipped with a powered rotate function, but does not rotate however will raise and lower, move to step 4.

Linak Cables

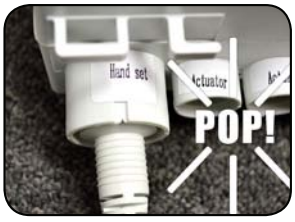
NOT Properly Inserted:
The cord plug is flush with or sticking out of the outlet

Properly Inserted:
The cord plug is recessed into the outlet

Vito Cables



NOT Properly Inserted:
The cord plug is flush with or sticking out of the outlet



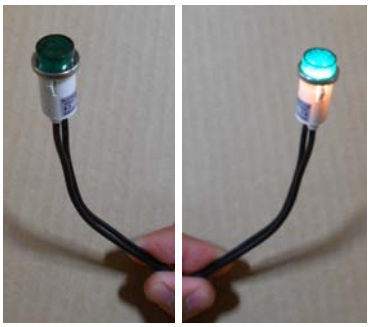
Properly Inserted:
The cord plug is recessed into the outlet

Step 3a: If the lift will not raise or lower, the problem could be the actuator, handset remote or control box. Unplug the actuator from port B and plug the test light into its place. Press the up button on the handset remote and then the down button. If the test light illuminates both when the up button is pressed, and also when the down button is pressed, then the actuator is likely bad and needs replaced. If not there may be a bad control box or handset remote (see step 3b).

Step 3b: To test the control box and handset remote, use the emergency button(s) on the control box (you will need a ball point pen for a Linak control box). If the emergency button(s) illuminates the test light then it is likely the handset remote needs replaced. If the emergency button(s) does not illuminate the test light then most likely the control box needs replaced.

Unplug actuator from Port B and plug in the test light

Use a pen to press the emergency Linak button. Use your finger to press the Vito emergency buttons.



Test light shown off and on

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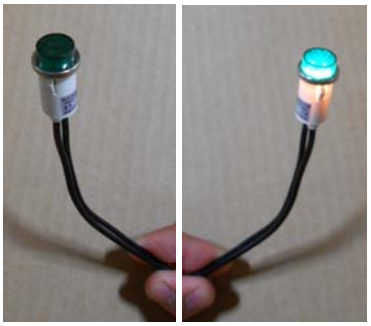
Step 4a: If the rotate function is not working, the problem could be the rotation motor, control box or handset remote. Unplug the rotation motor cable from port C and plug the test light into its place. Press the left or right button on the remote. If the test light illuminates then the handset remote and control box are working and it is likely the rotation motor is bad and needs to be replaced. If not the control box or handset remote is likely bad (see step 4b).

Step 4b: These control boxes do not include secondary controls for the rotation motor. Therefore, the test light can not determine if the control box or the handset remote is bad. A known good handset remote is needed in order to test the rotation again. Unplug the lifts handset remote and replace with a known good handset remote and press the left or right button, if it illuminates the test light, the lift needs a replacement handset remote. If not, the lift likely needs a replacement control box.

Unplug motor from Port C and plug in the test light

Unplug handset remote from Port A and plug in the known good handset remote



Test light shown off and on

PROCEDURE	DAILY	WEEKLY	MONTHLY
Wash down lift with fresh water and dry with clean, soft, non-abrasive cloth.	✓		
Recharge battery.	✓		
Run the lift through a complete test cycle to verify it is functioning properly.	✓		
Visually inspect lift for damage, corrosion, and loose or missing hardware.	✓		
Check all contact points for damage and/or corrosion.		✓	
Repair, clean, and apply dielectric grease to all contact points.		✓	
Thoroughly clean lift frame and apply a liberal coat of car wax to maintain the lift's finish.			✓
Check all Warning and Cautionary labels to make sure they are not faded or worn. Replace as needed.			✓

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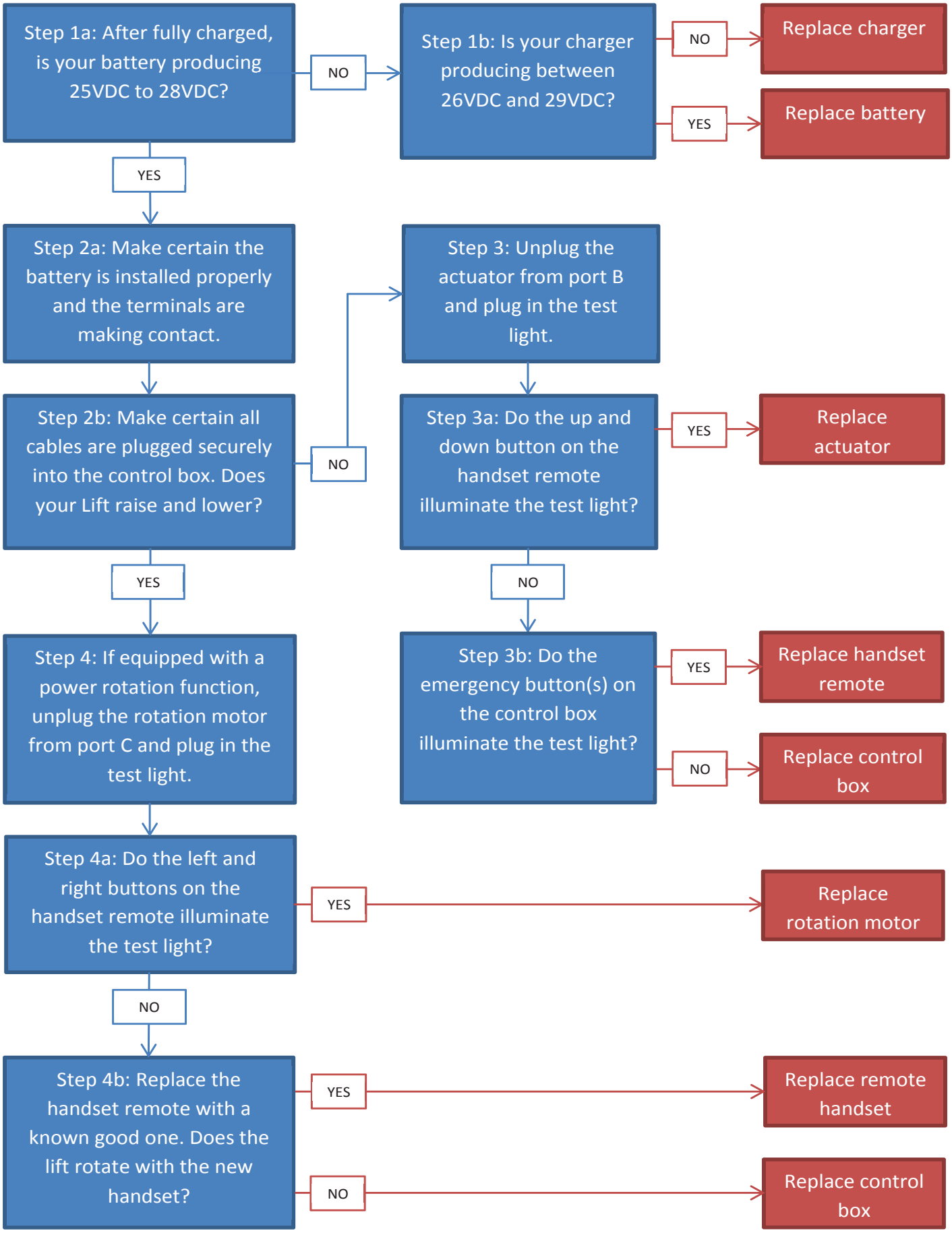

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