

Service Bulletin



Bulletin # TR02031501	Revision Original	Distribution <input checked="" type="checkbox"/> Domestic <input checked="" type="checkbox"/> International	Date 03-15-2002	Author Short
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Subject: TR9700 Diagnosing lift problems

Serial Number: all

Time Required: 15 min 30 min 45 min 1 hr +

Classification: Internal Dealer General

Here are the normal operating conditions of the LED's on the WAX/LIFT Board

Treadmill Inclining	Treadmill Declining	Treadmill at 15% Incline	Treadmill at 0%	Treadmill at -3% decline	Treadmill at -4% decline
LED 1	LED 1	LED 1	LED 1	LED 1	LED 1
LED 2	LED 2	LED 2	LED 2	LED 2	LED 2
LED 3	LED 3	LED 3	LED 3	LED 3	LED 3
LED 4	LED 4	LED 4	LED 4	LED 4	LED 4
LED 5	LED 5	LED 5	LED 5	LED 5	LED 5
LED 6	LED 6	LED 6	LED 6	LED 6	LED 6

The next chart will give information on what the different LEDs Mean.

LED 1 LED 2 LED 3 LED 4 LED 5 LED 6	LED 1	Will flash very fast.
	LED 2	This will light when the lift motor is being powered to go up.
	LED 3	This will light when the lift motor is being powered to go down.
	LED 4	This LED is lit only when the Switch on the lift motor is pressed in.
	LED 5	This LED will only be lit when the frame/home switch is being pressed. (Under normal operation this switch will not be triggered. it will only be trigger at a -4% decline)
	LED 6	Will flash slower then LED 1.

Testing Procedures

- Remove the Motor shroud to be able to view the WAX/LIFT board.
- Enter the diagnostics mode by pressing and holding the PAUSE key and pressing the CLEAR key twice.
- Using the Program keys, press the HILL KEY and then the MANUAL KEY. The display should read INCLINE MANUAL and the MATRIX window should have an (IM) on it.
- Decline the treadmill until it stops. Both Led's #4&5 should now be on and the display matrix should read -4. If this is not true, follow these troubleshooting procedure.

1. In the Diagnostic mode INCLINE MANUAL raise the treadmill to it's full incline position for the following tests		
A. Unit is in a 15% incline and the #4 LED is on.	I. Press frame(home) switch the #5 LED should turn on and off. If the #4 LED Turns off. The cables for the switches are reversed. Switch the Cables and retest.	
	II. Press the micro-switch mounted on the lift motor. If the #4 LED turns off check to see if the micro-switch is wired correctly. If the micro-switch is wired correctly (see illustration), then replace the switch.	
B Unit is in a 15% incline and the #5 LED is on.	I. Press the frame(home) switch if the #4 led changes. Then check the cabling for the two switches they might be reversed. Switch the Cables and retest.	
	II. Press frame(home) switch if the #5 LED turns off, or dose nothing at all. Replace the frame (home) switch.	
2. After testing in the full incline position, lower the TREADMILL until the motor stops at its lowest position -4%.		
A. Unit is in a -4% Decline and the #4 LED is off.	Press the micro-switch on the lift motor. If the #4LED turns off then check to see if the switch bracket is positioned correctly. The bracket needs to be repositioned for the switch to be triggered.	
B. Unit is in a -4% Decline and the #5 LED is off.	Check if the frame switch is fully depressed to verify that the #5 LED turns off. If the #5 LED does not changed then replace the Switch. If the switch is not depress enough then remove the lower bolt holding the lift motor tube to the lift frame and rotate a 180 degree turn at a time until the lift frame rests against the rubber stop on the frame.	