

46 Code: EL STL, RNG, or LOST Flowchart

Definition: "ELEVATION STALL BEYOND 0% or 15% RANGE"

Possible Cause: Out of range elevation count or elevation system malfunctioned.

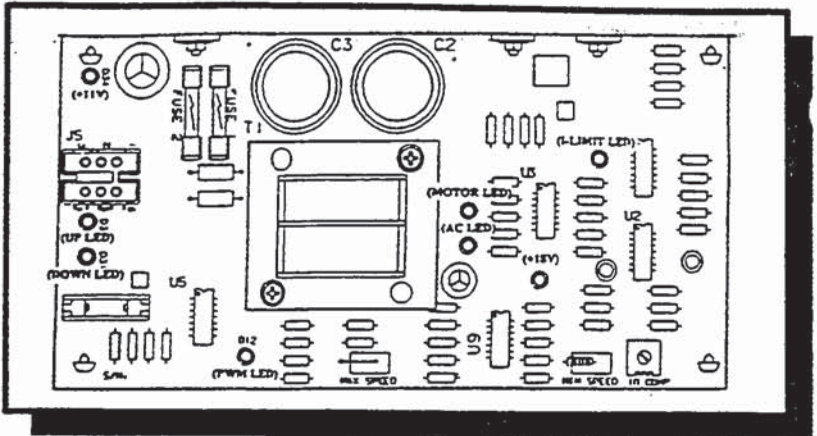


Diagram #1

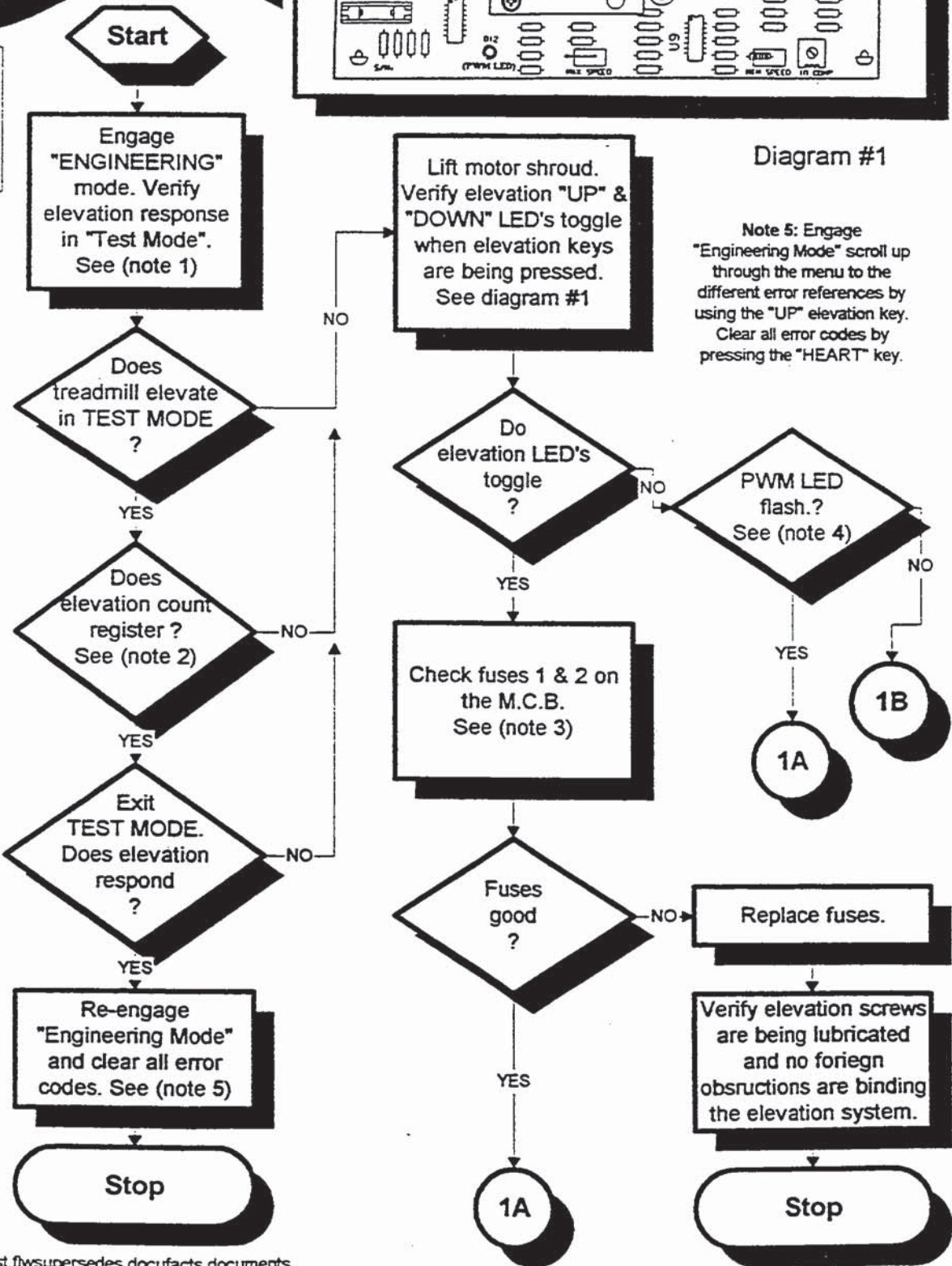
Flowchart for sn# 402596 and above. Eprom: 2.3 Contact STAR TRAC if eprom version is under 2.1

Note 1: Press and hold the "0", "1" & "START" keys down at the same time, then release the "1" key. The display will read: ENGINEERING. Press and release the "8" key.
Or manually hold the "8" key and simultaneously turn the treadmill on by the on & off switch. Both methods will engage "Test Mode".

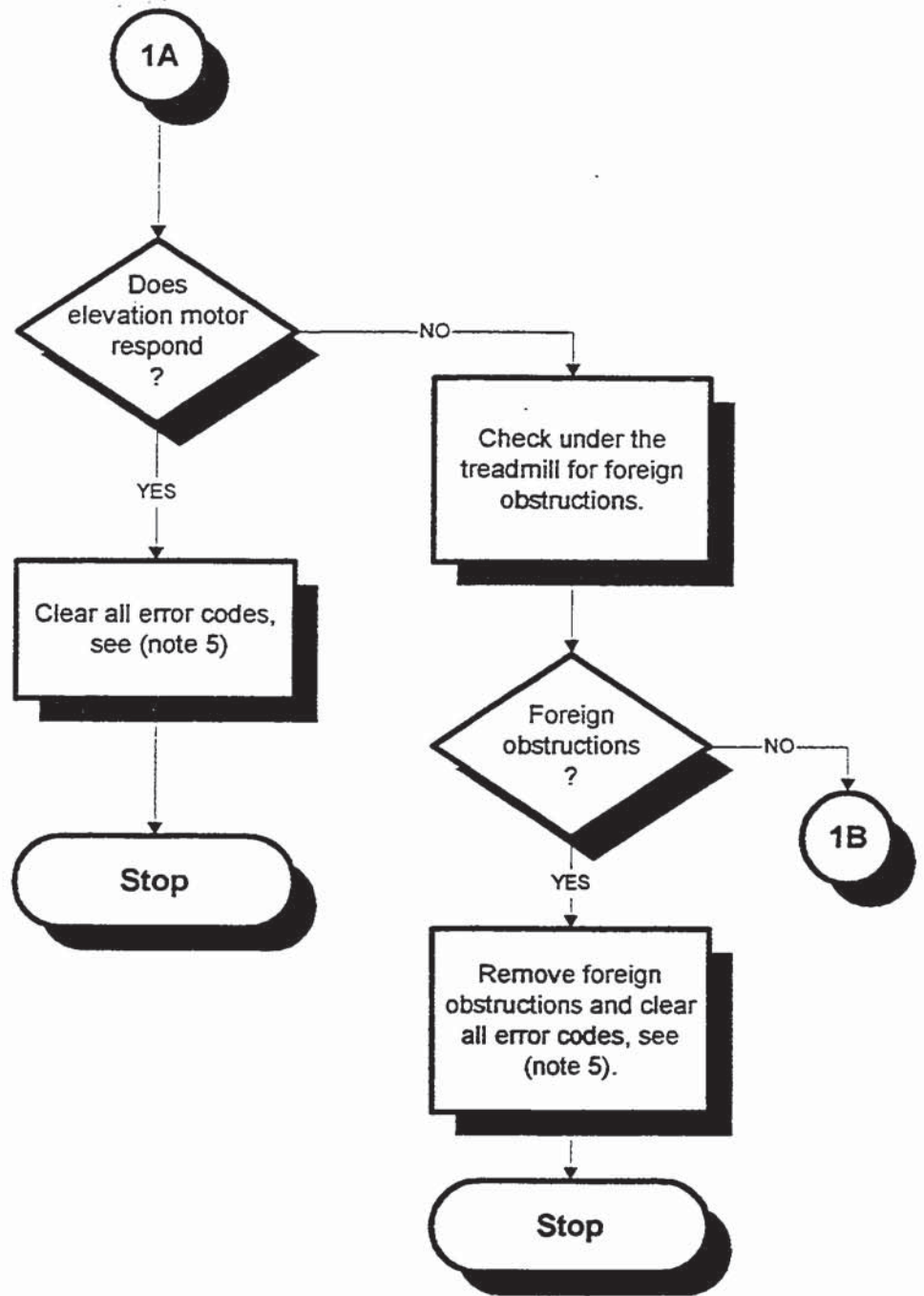
Note 2: In "TEST MODE" the numbers under "ELAPSED TIME" on the display, represent the elevation count (range). When physically at 0%, the count should read: 240. When elevating the range should fluctuate from 240 - 57. (57) represents 15% elevation. Do not elevate above count 57.

Note 3: Visually check both fuses. Replace fuses, if burned or cracked. If a multi-meter is available, verify continuity.

Note 4: Verify that the PWM LED is flashing, while the treadmill is turned on. The PWM LED indicates a valid control command is being sent from the Display Board to the M.C.B. If the LED is not flashing, check for connection and look for pinch or tear marks.



Note 5: Engage "Engineering Mode" scroll up through the menu to the different error references by using the "UP" elevation key. Clear all error codes by pressing the "HEART" key.



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1B

Note 6: Diagram #3

Place your (red) meter probe into the black wire of pin 4, located at connector J5. Then place your (black) meter probe to AC1 on the M.C.B.

Voltage should read +/-110v. or +/-220v depending on model.

When pressing the elevation "DOWN" key, the voltage should drop down to 0v or 1v. This would indicate a good response from the M.C.B.

Do the same for pin 5 (red wire), as shown in Diagram #4. Then press the elevation "UP" key. Voltage should drop down to 0v or 1v.

Using a multi-meter, verify voltage at the following pins (4&5) from the Elevation Motor connector J5. See (note 6) Diagram #2 & 3

Does voltage change at pins 4 & 5 ?

Replace the Elevation Motor. Then clear all error codes, see (note 5)

Replace the M.C.B. Then clear all error codes, see (note 5)

Stop

Stop

Diagram #3

Diagram #4

