

L70 & 80 SERIES ELEVATION MOTOR / REPLACEMENT INSTRUCTIONS**INTRODUCTION**

This document is to be used for installing elevation motors for treadmills manufactured 10/2006 to present.

TOOLS REQUIRED

- Power drill with #2 Phillips Head Bit. (To remove the elevation pin screws.)
- Diagonal cutters
- Pliers

ACTIVITY/PROCESS**Removing an Elevation Motor:**

1. Remove all weight from the elevation assembly by:
 - Elevating the treadmill to 10% grade.
 - Place something solid under the motor pan.
 - Lower the machine down to until all the weight has been removed from the elevation wheels.
2. **Unplug** the treadmill from the wall outlet.
3. Disconnect the elevation motor harness from the lower board.
4. Disconnect the elevation motor nut from the elevation assembly by loosening the two set screws and sliding the two elevation pins out.
5. Remove the elevation hitch pin from the clevis mount.
6. Remove the elevation motor.

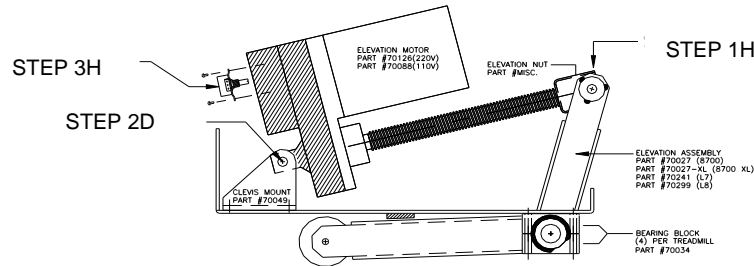
Installation of Replacement Elevation Motor (110v = Part #70088; 220v = Part #71026):

1. Plug in treadmill and Enter Diagnostic Mode (DIAG MODE). The following tells how to enter into Diagnostic Mode.
Press Stop and then press the following keys IN ORDER. The first key must be held down while pressing the second key, then let both keys go at the same time.
ET-Press Menu then Start
PST3 and CT2-Press Next then Start
PST4 and CT4-Press Enter then Start
ST,PT, and RTM- Press Display then Start
2. Align the elevation motor with the clevis mount & install the elevation hitch pin.
3. Reconnect the elevation harness to the lower board.
4. **The Following MUST be done prior to proceeding to steps 5 through 8.**

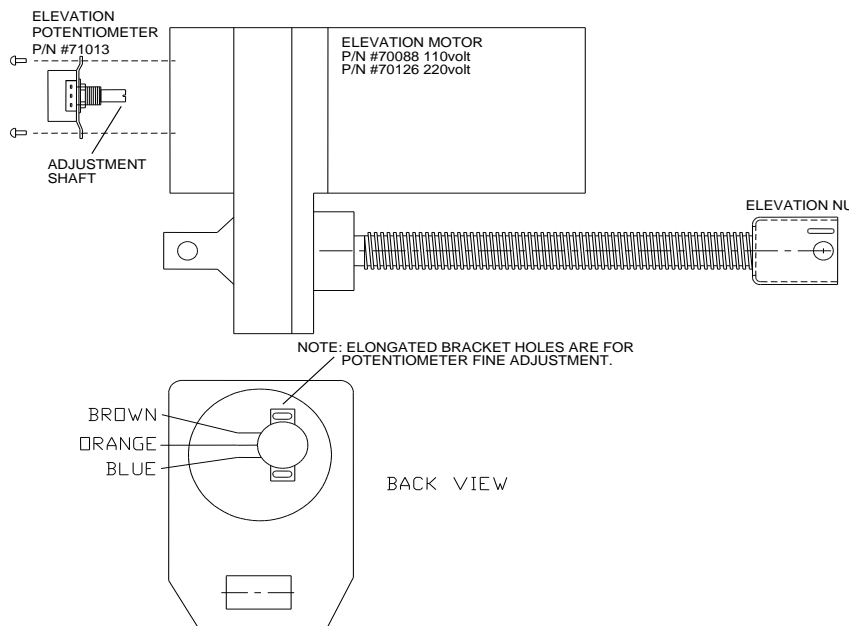
Set the lowest limit switch by holding the UP elevation button for 5 seconds. Press and hold the DN elevation button until you hear the motor stop turning then release it. Press the DN elevation button again. You should hear a click. Proceed to step 5.
5. Thread the elevation nut until it is flush with the threads on the worm shaft.

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- Mount the elevation nut to the leg assembly by lining up the holes on the elevation nut to the holes on the leg assembly.
NOTE: You may have to move the leg assembly so that the holes on the elevation nut line up. Then slide the two elevation pins through the elevation assembly and into the elevation nut.
- Secure the pins with the 2 set screws.



- Calibrate the elevation potentiometer (Pot). Follow instructions below.



Service tip: When calibrating the Elevation Pot it is useful to have a 2nd individual to read the "pot reading" while the other tech turns the post on the pot.

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Enter Diagnostic Mode on 70 & 80 series machines

- o First turn off the treadmill.

Press the following keys simultaneously, based upon the console type:

| CONSOLE TYPE | KEYS |
|--------------------|-----------------|
| ET | MENU & START |
| PST- 2 & CT- 2 | NEXT & START |
| PST- 4,5 & CT- 4,5 | ENTER & START |
| ST, PT, & RTM's | DISPLAY & START |

To calibrate the potentiometer:

1. Visually confirm treadmill is at 0% grade.
2. Adjust the pot setting as follows:

PWM Boards – Set elevation pot reading to 0.2

SCR Boards – Set elevation pot reading to 0.2

3. If the setting is incorrect, follow the steps below:
 - a. Turn the post of the pot all the way ***Clockwise***.
 - b. **Slowly** turn the pot ***Counter-Clockwise*** until the setting is correct.
4. Carefully install potentiometer into the motor housing and check if reading is still correct. The setting may vary when inserting the potentiometer into the motor. As long as the change is minimal, fine adjustment can be achieved by rotating the potentiometer while inside the elevation motor. When finished tighten screws.
5. Press OFF to turn treadmill off. Then restart the machine in manual mode to test elevation by elevating the machine all the way up and down.

For Technical Assistance Call 1-800 - L A N D I C E