



Our new and improved troubleshooting section was carefully constructed to put the power to repair your machine in your hands. As you can tell, we have put a great deal of time and effort into the process. All of this can save you the cost of a service call which is approaching \$150 in many markets and in many cases, we can save you the cost of parts since many parts are sold from factories unnecessarily (many parts cost over \$100 alone). With all of this said, if our troubleshooting tips help you out, please donate to keep this info on the web and so we can continue to add to it for your future use. As we get the funds, we will start to post video helps too. If this info helps you, please click on the donate button and donate to help us expand and maintain our troubleshooting help. Donations are NOT tax deductible.

ICON CALIBRATION INSTRUCTIONS MC-60

- 1) Press the Stop and the Speed Up keys down while inserting the safety key. If this doesn't work, click on the help topic entitled "Alternate Calibration Codes" for key sequence instructions to enter calibration.
- 2) Press the Stop key one time. The Time window should read EP:2P. Some newer models may also say FP, Pass, or the like. This means that it passes the EPROM test.
- 3) Press either incline key and the incline will calibrate automatically.
- 4) BE CAREFUL, THE TREADMILL WILL RUN AT FULL SPEED IN THIS NEXT MODE! **DO NOT STAND ON THE WALKING BELT.** Press the Speed Up key and hold it down until 85 is shown in the Distance window (some models may show the 85 number in another window).
- 5) If the top speed of the treadmill does not match the displayed speed on the computer console, adjust the max speed potentiometer (pot) on the motor control board. This is the board that the red and black motor wires connect directly into in the motor area. The Max Speed pot is clearly labeled.
- 6) The max speed potentiometer is a small square with a mobile center and is located almost dead center in the board and is labeled MAX SPD. Using a small insulated screwdriver adjust this potentiometer clockwise to speed up and counter-clockwise to slow

down the max speed of the treadmill. A tiny turn of this potentiometer will make a big difference in speed so be careful when making adjustments.

7) It is not important to get the speed set exactly at the max speed of the treadmill but do make sure to get the speed within .2 MPH of the max speed of the treadmill. For instance if the max speed of the treadmill is 10 MPH, make sure to have the speed set between 9.8 MPH and 10.2 MPH. Some models have a 12 MPH top speed, so please check your manual if you aren't sure.

8) **THIS IS A VERY IMPORTANT STEP BECAUSE YOU WILL GET AN ERROR MESSAGE IF THIS STEP IS SKIPPED.** After completing calibration of the speed, press the Speed Down key. The treadmill will automatically return to 0 MPH. Please allow the unit to stop completely before continuing.

9) **THIS IS A VERY IMPORTANT STEP BECAUSE YOU WILL GET AN ERROR MESSAGE IF THIS STEP IS SKIPPED.** Press the Stop key once and remove the safety key.

10) If you have any questions about these instructions or if you need further assistance, please contact us online at www.treadmilldoctor.com, call any weekday from 8 am to 5 pm, or email us at doc@treadmilldoctor.com.

Troubleshooting Lights- What They Mean

D11- Labeled +12v- This light means that the MC-60 is receiving AC power from either the power supply or the wall outlet (if direct wired to AC) and it outputting a small voltage on the speed circuit. If you confirm you have AC power into the board but this light is not lit, replace the controller.

D6- Labeled SCR TRG- This light means that the MC-60 has triggered the SCR circuit and should be outputting DC voltage to the motor. If +12v and SPD CTRL are lit but SCR TRG is not, replace the controller. This light should normally vary in intensity based upon the voltage output of the controller.

D7- Labeled SPD CTRL- This light means that the MC-60 is receiving a speed signal from either the speed dial, the speed slide, or the digital console. If this light is not lit, unplug the treadmill, remove the three

speed wires labeled H, W, & L and then jump the H and W connections and plug the machine back in. The SPD CTRL light should light up if the controller is good. If it does, read our troubleshooting help topic on the Signal Generator Check. If the speed signal is good, this light should flicker as it receives a speed signal.

D16- Labeled CUR LIM- This light should never come on. If this light does come on, it means that the treadmill is exceeding the current limit of the controller. Continued use in this condition typically will cause repeat failure of the controller. The most common cause of failure is high belt/deck friction. If you have a new belt and/or deck, check the tightness of the belt and deck as well as the motor belt. Overtightened belts can cause a current limit overload. A very rare cause can be a seized bearing in the rollers or the motor or a high resistance motor.

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