



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.

## **SPEED TEST & BELT MEASUREMENT FOR THE SCIENTIST**

*Thanks to Rod McGregor, a service tech in Australia, who shared his method with us.*

### **Walking Belt Length**

$$L = 3.142D + 2C$$

*L is the walking belt length,*

*D is the diameter of one roller (assuming identical diameters)*

*C is the distance between the roller axle centers (front to rear)*

### **Walking Belt Speed**

$$S = 0.24RL$$

*S is the belt speed in KMH*

*R is the number of rotations of the belt in a 15 second period*

*L is the belt length in meters*

*For a 30 second count period use  $S = 0.12RL$*

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