



PWM TREADMILL DRIVE INSTALLATION AND ADJUSTMENT

INSTALLATION:

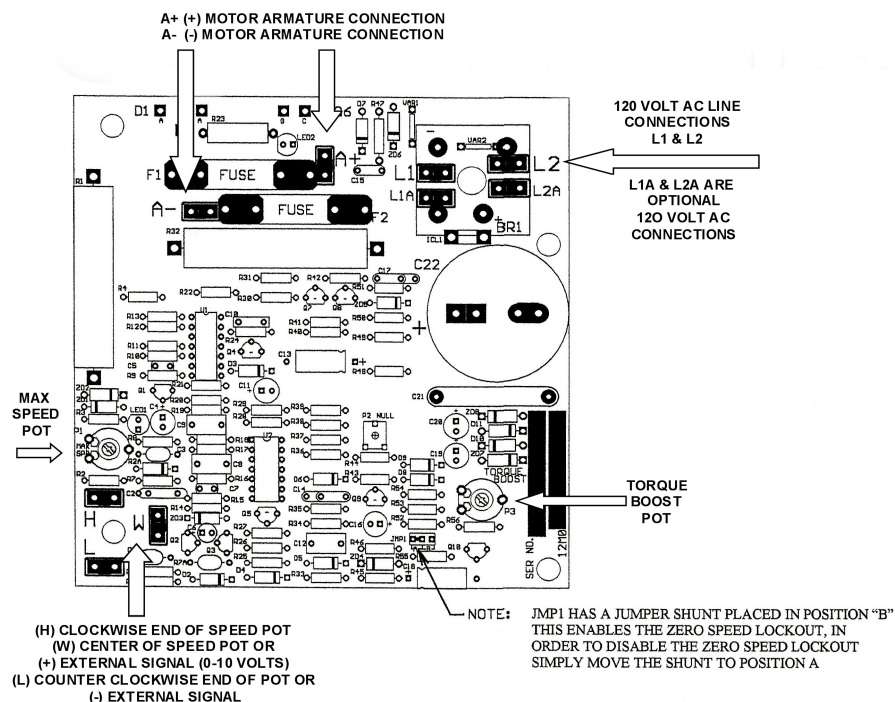
Connect AC Line, Motor Armature, and Speed Pot (10K) to the “quick connect” terminals as shown on the drawing below. The AC line should be protected by fusing or a circuit breaker. Be sure that the motor armature and the speed pot are not grounded. If an external speed signal is used, it must be isolated from both ground and the ac line.

ADJUSTMENTS:

Note: A protective lockout circuit prevents the drive from starting on the application of AC power unless the speed input is at zero. After power is applied, the speed pot can be advanced clockwise for operation. This circuit can be disabled by moving the jumper on JMP1, see note below drawing.

Turn the max speed and the speed pot fully counter clockwise, and apply power to the control. Turn the speed pot fully clockwise, and observe the drive speed. Adjust the max speed pot clockwise until the desired maximum speed is obtained, but do not exceed 125 volts DC at the armature of the motor.

The “torque boost” adjustment determines how well the speed is regulated in response to load changes. A counter clockwise adjustment allows the speed to “sag” under load. If set too far clockwise, the speed will actually rise under load. The correct setting is determined by adjusting the pot until the desired response is obtained.



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