



CANARM - GSQ - INLINE FAN WIRING GUIDE



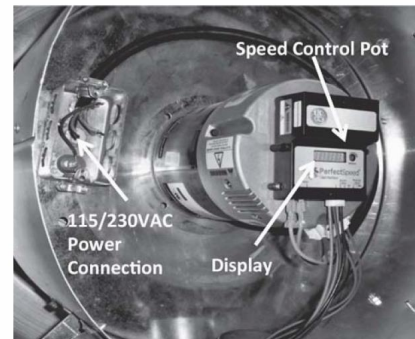
2157 Parkedale Avenue, Brockville,
Ontario, Canada, K6V 6v6
1 (613) 342-5424

STANDARD WIRING INSTRUCTION

1. A qualified electrician in accordance with all local and National Electrical Codes should do all wiring.
2. Ensure power supply is disconnected and locked out prior to making electrical connections.
3. Excess wire must be restrained in order to prevent it from entering the pulley, shaft or wheel rotating area.
4. Disconnect switches are recommended and should be located near the fan in order to, swiftly cut off power in case of an emergency and maintain complete control of the power source.
5. Follow the wiring diagram on the motor nameplate.

EC (Electronically Controlled) MOTOR SPEED CONTROL

EC motors are equipped with a control module that allows for accurate manual adjustment of motor speed. Motor speed range is from 300 to 1800rpm or maximum rpm for that model. The control module features a 4 digit LED display that indicates % demand of full speed and motor speed in rpm. The display also indicates an error code message for minor diagnostics if required.

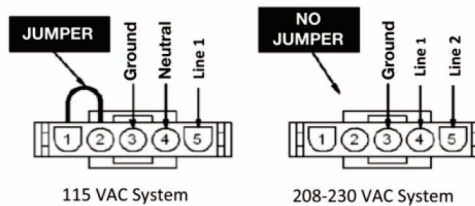


MESSAGE DISPLAYED...	
Spd-	followed by the instantaneous speed in rpm
dE-	followed by S + demand in %
E1-	No communications
E2-	Under Voltage

Motor speed can be changed by adjusting the speed control pot located on the control module. A small screwdriver can be used to make the speed adjustment.

AC Supply - 115/208-230VAC

Power is connected to the motor and control module through the junction box and wiring harness provided.
Note: For 115VAC operation the blue jumper provided(taped to wire harness) must be inserted into motor power connector. See diagram



Caution: Operating the motor at 208-230VAC with the jumper will cause significant damage to the motor.

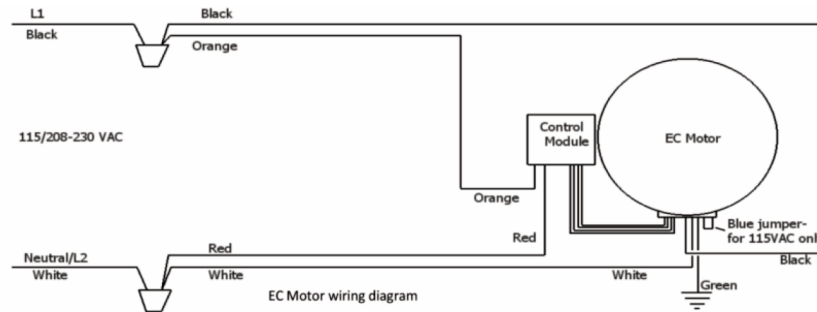




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Note: EC motors have a soft start feature. When the power is turned on the control module gathers information from the motor then begins the start up process. After a few seconds the motor will start to turn and reach full set speed in 10-15 seconds.

Remote Speed Control Option (please contact factory for further information)

PRE-START INSPECTION

1. Lock out all power sources.
2. Inspect all fasteners and set screws and tighten as required.
3. Confirm power source voltage and motor voltage are the same and that the motor is wired correctly.
4. Rotate the wheel to ensure that neither the fan blade nor the belts come into contact with the housing.
5. Inspect the fan and the ductwork to ensure they are free of debris.
6. Check to ensure that all guards and accessories are securely mounted.

START-UP

Turn the fan on and inspect for the following:

1. Direction of rotation.
2. Improper motor amperage.
3. Excessive vibration.
4. Unusual noise.

If a problem is discovered shut off the fan and refer to the section on troubleshooting to discover the cause of the problem. The fan should be inspected after 30 minutes, 8 hours and 24 hours of operation to ensure all fasteners are tight and belts are properly tensioned and aligned.

