

Ecm Motor Troubleshooting Guide

Ecm Motor Troubleshooting Guide - START HERE. Before troubleshooting the ECM motor, check these system basics if applicable: HVAC System Troubleshooting Basics. Confirm that the correct thermostat input and ONLY the correct input voltage is present at the interface or main control board on the furnace/air handler or outdoor unit. ECM Motor Power and Control Connectors ECM Motor Power Cable - 120 VAC. ECM Motor Power Connector (120/240/277 VAC). ECM Motor Control Connector 16 Wires for programming 4 Wires for basic control. NOTE: Connectors are keyed to resist the cables being inserted incorrectly. ECM Motor Troubleshooting — Part 2. Test A: Measure the resistance between each of the 3 motor leads to the unpainted part of the end shield (winding to ground resistance). Typically a good motor will read infinite ohms to ground on all leads. A grounded motor will read a measurable resistance from any one of the motor leads to ground. ECM 2.3 Variable Speed Blower Motor Troubleshooting. 1...Set the thermostat to Blower which should send 24 volts to G (blower) and C (Common). Be sure 24 volts is being supplied at the G (Blower) and C (Common) terminals. 2...Be sure there is high voltage 120 volts or 220 volts. Use a multi meter and verify the motor is getting power.