

IMPORTANT PARTS-SERVICE COMMUNICATION

TO: All Service and Parts Managers

DATE: January 12, 2005

NO: GF-175

SUBJECT: ECM Motor Not Ramping Properly on Amana® Brand 80% & 90% Variable Speed Gas Furnaces

There have been reports that the Amana® brand 80% (AMV8*) and 90% (AMV9, ACV9*) variable speed ECM™ motors are not ramping up and down. The ECM™ motor is operating at 100% fan speed on start up and immediately shutting down when the thermostat cycles the unit off.

We found that the ECM™ motors, with a date code range (0406 through 0410) had a programming error not allowing the motor to ramp properly.

The following are instructions to correct this condition when using the variable speed gas furnace by itself and when using the furnace with a heat pump in a dual fuel application. The ECM™ motor assembly **does not** need to be replaced.

(1) Gas Furnace Only.

Install a jumper wire between the "O" and "Y" terminal on the control board. The "Y" terminal now receives the "O" terminals programming instructions, which is the same as "Y". The ramping profile is now activated and will ramp up and down properly.

Note: In the future, if the gas furnace circuit board is replaced before the ECM™ end bell is replaced, the jumper will need to be installed on the new circuit board to maintain the ramping profile.

(2) Gas Furnace with heat pump (dual fuel application).

First, the "O" wire from the thermostat and the "O" wire from the heat pump should be connected together with a wire nut. **DO NOT** connect these two "O" wires to the gas furnace circuit board.

Next, install a jumper wire between the "O" and "Y" terminal on the gas furnace circuit board. The "Y" terminal now receives the "O" terminals programming instructions, which is the same as "Y". The ramping profile is now activated and will ramp up and down properly.

Note: In the future, if the gas furnace circuit board is replaced before the ECM™ end bell is replaced, the jumper will need to be installed on the new gas furnace circuit board to maintain the ramping profile.