

NOTICE:
POWER MUST BE REMOVED FROM THE CONTROLLER
WHENEVER CONNECTIONS OR DISCONNECTIONS ARE
BEING MADE. FAILURE TO DO SO COULD RESULT IN
IRREPARABLE DAMAGE.

Replacing the ECM Card in Auto Mode

When in auto mode, there is no need for an ECM card with the new AO Smith ECM motor. The new motor can be connected directly to the controller's analog output with the provided 1-end control cable (Figure 1). Disconnect all wires to the old Crotec ECM card, remove it from its socket and follow instructions on how to replace the ECM Motor.



Figure 1. 1-end control cable

Replacing the ECM Card in Manual Mode

Before making any changes to the old Crotec ECM card, remember each wire and its respective position.

1. Disconnect all wires and remove the old Crotec ECM card.
2. Install the new AO Smith ECM card.
3. Reconnect the 24VAC and ground wires to the correct ports as shown in Figure 3.
4. Use the provided 2-end control cable (Figure 2.) to connect the AO Smith ECM card to the new motor.
5. Remove the remaining wires. They are not necessary with the new AO Smith Card.



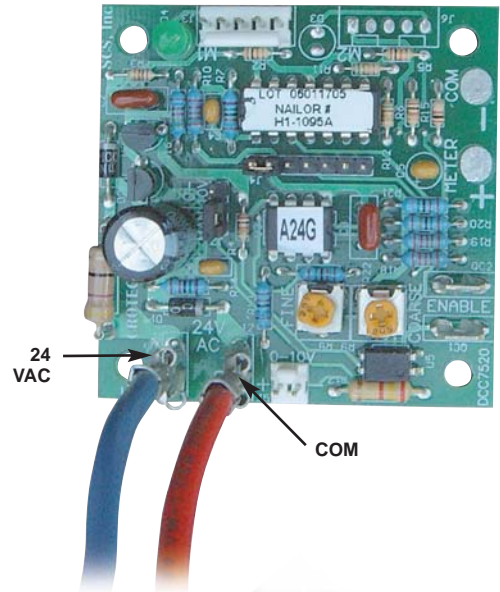
Figure 2. 2-end control cable

Replacing the ECM Motor

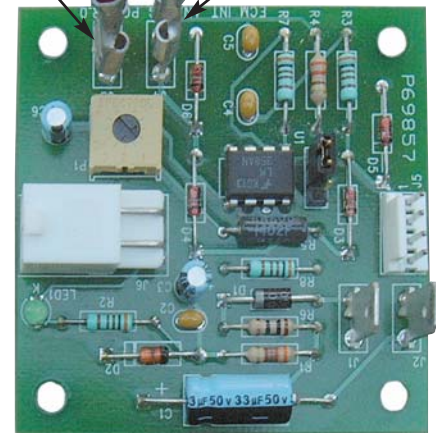
1. Disconnect both wiring harnesses from the old ECM motor.
2. Unscrew and remove the old ECM motor from its bracket.
3. Install the new motor in place, make sure all screws are tight.
4. Reconnect the power cable to the new ECM motor
5. If in manual mode, use the control cable to connect the ECM motor to the ECM card.

If in auto mode, connect the new ECM motor directly to the analog output of the controller. The black wire is the signal (0-10) and the white wire is the common..

Old ECM Card



COM and **24 VAC** labels pointing to terminals on the Old ECM Card.



AO Smith ECM Card

Figure 3. Crotec ECM to AO Smith Card