

JC Systems Inc.

Service Bulletin: 040700_1 (Replaces 032800_1)
Date: April 7, 2000
Subject: A2192 Chamber Enhancer, Induced Noise
Units Affected: A2192 Chamber Enhancer

There are two sources of electrical noise that can adversely effect the operation of the A2192.

Problem (1): Electrical noise generated by dry contact switching of the Compressor Run relay. Noise is generated by the action of the collapsing magnetic field of the compressor run (MTO) relay coil when opening a set of dry contacts to turn it off. A noise spike can be induced on the “cool” or “dehumidify” input lines.

Symptoms (1): The Compressor Time Out (MTO) restarts immediately after it has timed out with no cooling or dehumidify demands.

Corrective Action (1): Install a varistor across the coil of the Compressor Run Relay.

Problem (2): Noise generated by dry contact switching a cooling solenoid on and off. The watchdog timer (AD 692) is susceptible to the inductive kick of the solenoid when the dry contacts open. The Maxim 692-watchdog timer appears to be less susceptible to this type of electrical noise.

Symptoms (2): The outputs of the A2192 will turn off for approximately 10 to 15 seconds then turn back on, even though the controller is providing cool input signals to the A2192.

Corrective Action (2): Install a varistor across the solenoid coil, or replace the dry contact relay with a zero crossing solid state relay.



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