EC4.0 False Low Voltage Fault Code Advisory

Trans/Air has become aware of isolated instances where, the EC4.0 electrical system (i.e. the 701507 relay board) will show a low voltage code (Lu) (on the thermostat switch) when there is no low voltage. This condition could cause the air conditioning system to shut down until the code has been cleared. Trans/Air Manufacturing is issuing an advisory, to address this concern.

Trans/Air Product: Not all 701507 boards exhibit the false (Lu) fault code, only later Revision C, Version 1.0, without the voltage detection chip. (Fig 1) Early revision C, Version 1.0, with the voltage detection chip. (Fig 2) is not an issue

Symptoms: Symptoms would be a shutdown of the air conditioning system, with a “low voltage” fault (Lu) showing on the thermostat switch, while a voltage reading at terminal 8 on the relay board is greater than 12.0 volts dc.

Cause: The low voltage detection threshold voltage (set point value) is stored in memory. This set point value is, in some cases, altering itself during initial power up, causing the threshold to be set at a high set point.

Corrective Action: A relay board assembly which includes a relay board, (501507) Revision D, Version 1.1 board, (Fig 3) and new hardware, will be sent to replace faulty relay board.

Compensation: Special authorization code for replacing the relay board.

Authorization: Jeff Kochenour, Warranty Manager

Distribution: Website
Fig 1

Fig 2
For questions, please call Trans/Air Mfg. at 800-673-2446

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Fig 3