

ELECTRO INDUSTRIES - FIELD SERVICE BULLETIN

Bulletin Number 1093 Date November 23, 2005

Product Name Dual Fuel HP Interface

Affected Product Model Numbers: HP-5043-87 and HP-5043-HP

Serial # All through All

ARL # _____ through _____

Production Date _____

FIELD INFORMATION

Background

The original design of this simplified (non-Electro-Mate or electric elements) fossil fuel kit or interface module does not include provisions for using the gas furnace during the heat pump defrost cycle.

Installation drawing HH108, note 1, states:

1. No defrost gas furnace heating provision

However, since the control board itself has a "W1" spade terminal this probably has been confused to indicate this W1 terminal should be connected to the defrost W1 terminal on the outdoor unit. This will not work. In fact, when the W1 spade (HP-5043-** board) is raised to 24 volts it disconnects the Y going to the compressor, thus terminating the compressor, thus terminating the defrost cycle, thus creating a loop of no action.

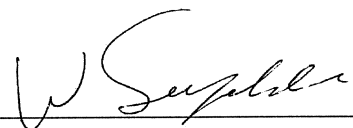
Field Action

Do not connect the outdoor unit defrost monitor or defrost auxiliary wire or defrost emergency heat wire to the HP-5043-87 or -HP "W1" tab.

Future Upgrade

There probably will not be an upgrade to the existing product to provide gas furnace defrost cycle, but Electro may add a totally new dual fuel fossil fuel kit to its WarmFlo product line.

There has been some attempt to use a 2-pole relay, at this time this has not been verified and depending upon how fast the outdoor unit determines ACD or power interruption, the relay may or may not successfully work for all manufactured units.

Approval  Date November 28, 2005