



**Number:** SMB010022      **Date:** April 6,2001      **Supersedes:** N/A      **Date:**  
**Title:** 30 series ComfortLink Nuisance Alerts 051-057  
**Category:** *General*      **Termination Date:** None  
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**Dept:** CSS Service Engineering

**Models**      CAC: 30GTN, GTR, GUN, GUR, HK, HL, HW with ComfortLink Controls  
**Affected:**      BDP: None

### **Situation:**

There have been many complaints regarding nuisance A051 alarms and T051-057 alerts on chillers with ComfortLink controls. The alarms continue even after all the safeties have been ruled out. The only component left is the control relay.

We have determined the root cause of the problem to be the contacts used in the HN61KK025 control relay which provide the 5 vdc feedback signal to the main base board (MBB). The current through this circuit is approximately 2 mA. Under certain operating conditions the contacts do not make properly and the MBB interprets this as a failure.

30GTN, GTR, GUN, GUR 040-070 with accessory Compressor Ground Current Protection Module and 080-110 do not utilize this relay and are not affected.

### **Factory Action:**

Short term - Increase contact pressure on HN61KK025 control relay to improve reliability.

Long term - Develop a replacement for the control relay.

### **Field Action:**

Refer to SMB010002 for information on troubleshooting A or T051-057 alarms/alerts. If the problem is determined to be the control relay here are three possible solutions.

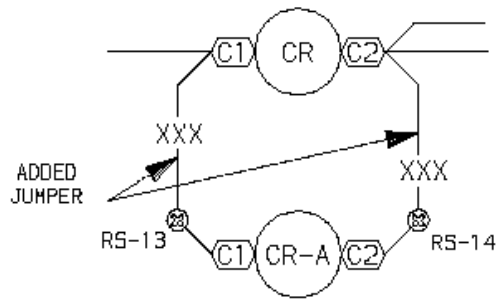
1. Replace the HN61KK025 control relay. Relays identified with a date code of 0114 or later have the contact pressure increased.
2. Install RCD kit 30GT660005, which consists of a HN61KZ024 control relay and HY07RB030 base. This relay has bifurcated contacts rated for the low current. The coil is wired in parallel with the existing control relay. The N.O. contacts are wired in parallel with terminals 1 and 3 of the existing relay. This is not a direct replacement. Installation instructions are attached.
3. On 30GTN,GUN040-070 install the accessory Compressor Ground Current Protection Module (30GB900131).

### **Policy:**

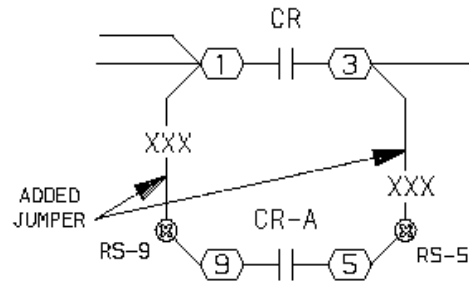
There is no policy associated with this bulletin.

# CONTROL RELAY MODIFICATION

## COILS



## CONTACTS



### LEGEND

- CR CONTROL RELAY (EXISTING)
- CR-A CONTROL RELAY (ALTERNATED)
- RS RELAY SUB-BASE