



ABN 49 003 452 551

**SERVICE BULLETIN : HAN-L5(B)/PCB-058(V2).
HAN-L5(B)/PCB-043L4.
SUBJECT : TROUBLE SHOOTING.****INTERFACE CABLE COLOUR DESIGNATIONS.**

Pin Number	Colour	Designation
1	Brown	Compressor
2	Red	High Fan
3	Orange	Low Fan
4	Yellow	Med. Fan
5	Green	Rev. Valve
6	Blue	Low Voltage Positive
7	Black	Low Voltage Common
8	Purple	Remote Sensor

This trouble shooting guide is for the HAN-L5 series microprocessor controllers when used with PCB-043L4, PCB-058.or PCB-058V2. The PCB-058V2 was introduced in November 1999 and has additional features to the earlier models PCB-043L4 & PCB-058. The PCB-058V2 is identified by the model on the PCB base near the LF relay.

Problem	Cause	Remedy
Wall control will not operate. Note: e & f for PCB-058(V2) only.	a) No power to relay board. b) Fuse on relay board open circuit. c) Damaged interface cable. d) Bad connection of interface cable. e) Jumper missing from "CSD" pins. f) Jumper missing from "CN-12V" plug pins No. 1 & 2 if no ZSU (zone switch) fitted.	a) Check 240V power supply at relay board at terminals "L" & "N". Note:- The relay board is polarity sensitive. Active must be on "L". b) Check fuse for continuity & replace if open circuit (250V 2 amp). c) Check with multimeter across the blue & black wires at the interface cable plug at wall control end. Reading should be approx. 5V DC. d) Check plug connection at both ends of cable to ensure a good connection to relay board & wall control. e) Fit jumper bridge to "CSD" pins. f) Fit jumper bridge to pins No. 1 & 2 on "CN-TH1".
HAN-L5(B) wall control on but nothing operates.	a) Jumper missing from "RSD" pins on PCB-058(V2).	a) Fit jumper bridge to "RSD".
Indoor fan will not run on heat [PCB-058(V2) only].	a) Indoor coil sensor not fitted to plug "CN-TH2". or sensor bulb incorrectly positioned. b) Jumper missing from plug "CN-TH2" is not using coil sensor.	a) Fit indoor coil sensor & check for correct position. b) Fit jumper to pins on plug "CN-TH2".

IN THE INTEREST OF CONTINUOUS PRODUCT IMPROVEMENT SPECIFICATIONS OR PERFORMANCE DATA MAY CHANGE WITHOUT NOTICE.

Compressor will not run.	<ul style="list-style-type: none"> a) Dip switches incorrectly set. b) Link Removed. c) Selection switch is in fan only position on wall control. d) Mode selector switch or temperature adjustment changes have been instigated 4 min. safety delay. e) Delay timer in condenser unit . f) Jumper missing from "RSD" pins on PCB-058(V2). 	<ul style="list-style-type: none"> a) Check settings & adjust if necessary. b) For 240V control system, the link must be between terminals "L" & "24". c) Move selection switch to cool, auto or heat position. d) Set mode switch to required position, adjust temp. to start cooling or heating. Reset No. 1 dip switch on HAN wall control to on. When commissioning of unit is complete, No. 1 dip switch must be set to off (down) for normal operation. e) Check for timer in condenser & wait for time delay period to complete. f) Fit jumper bridge to "RSD" pins. If remote switch or fire trip connected to "RSD" check if remote switch is closed.
Temperature display reads extremely high.	<ul style="list-style-type: none"> a) Display set to read in °F. b) Remote sensor connected to plug on wall control. c) Warm air from wall cavity affecting control reading. 	<ul style="list-style-type: none"> a) No. 5 dip switch must be in the OFF position to read in °C. b) If using a remote sensor from the wall control, this sensor becomes the on board sensor & one leg of the bead sensor must be disconnected. c) Check temperature of wall cavity behind control. Cover cable hole with duct tape.
Display reads 1.	<ul style="list-style-type: none"> a) Room sensor on wall control turned off. b) Remote sensor installation, damage to remote sensor cable. c) Damaged on board sensor. d) Damage to interface cable between HAN wall control & PCB power relay board. 	<ul style="list-style-type: none"> a) Move dip switch No. 8 to the on position. b) Check remote sensor for damage & replace if damaged (No. 9 dip switch ON). c) Check on board sensor for damage. Replace wall control if damaged. d) Check for damage to purple wire or cable plugs
A/C unit will not turn off on heat.	<ul style="list-style-type: none"> a) Wiring fault. 	<ul style="list-style-type: none"> a) Check that compressor contactor is connected to terminal CO & not RH or RV on PCB-058(V2).
Compressor will not run on heat	<ul style="list-style-type: none"> a) Wiring fault. b) Location of remote sensor (if used). 	<ul style="list-style-type: none"> a) Check that compressor contactor is wired to terminal CO & not RC on PCB-043L4. b) Check location of remote sensor.
Time Clock programs not working.	<ul style="list-style-type: none"> a) Time clock override button in wrong position. b) Incorrect setting of ON/OFF programs. 	<ul style="list-style-type: none"> a) Override button must be in the "AUTO" position on the time clock display for the programs to operate. b) Check that for every "ON" program there is an "OFF" program.
12hr countdown timer counts down in seconds.	<ul style="list-style-type: none"> a) No. 1 service dip switch is in the on position. 	<ul style="list-style-type: none"> a) Return no. 1 dip switch to the off position after commissioning is completed.

IN THE INTEREST OF CONTINUOUS PRODUCT IMPROVEMENT SPECIFICATIONS OR PERFORMANCE DATA MAY CHANGE WITHOUT NOTICE.

Indoor fan runs continually on heat.	a) Jumper JP1 on power board is bridged.	a) For auto fan operation on heat, the jumper must be removed.
No time clock settings but control switches on system after power failure.	Incorrect sequence setting of time clock.	a) Press override button and set time clock to OFF. b) If time clock has on/off settings, press override button to off then auto. To start system press main on/off button on front of control.
Erratic control function. No heat or no cool function. Fan speeds changing rapidly. Control functions will not work.		Check interface cable between HAN-L5 wall control & PCB in a/c unit. If excess cable length is left in coil, unroll and spread out. Coiled cable can create an electro magnetic field which could corrupt control communications causing erratic operation. Also Do not install interface cable parallel with high voltage cables. Do not run & fasten interface cables to water or other copper pipes which could act as a conductor for electrical interference.
Indoor fan will not operate [PCB-058(V2)]	No power supply to terminal "F".	Fix link between terminal "L" & "F" if 240V fan outputs required.
Indoor fan continues to run when control switched off (units with 3 phase evaporator fans only)	Residual voltage through arc suppression circuit on PCB-058(V2) keeping external 240V AC coil relay energised.	PCB-058 – Remove capacitors "C8", "C9", & "C10" which are located between the terminal strip & fan relays. PCB-058V2 – Remove 2 pin jumper "S.K" located at the end of terminal strip next to "FL".
HAN-L5(B) wall control appears to be slow to react to temperature change.	Sensor on wall control is in contact with plastic casing leaving no air gap.	Remove control from wall, grasp glass sensor bead with fingers and carefully separate from plastic case.

IN THE INTEREST OF CONTINUOUS PRODUCT IMPROVEMENT SPECIFICATIONS OR PERFORMANCE DATA MAY CHANGE WITHOUT NOTICE.