

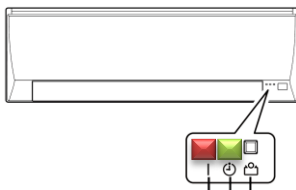
Improper or No Compressor Operation

TOOLS NEEDED: Amp clamp and digital multi-meter.

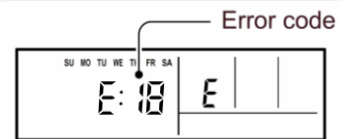
The below listed condensers have a separate power supply board that has a current sensing relay. This relay will monitor system amperage (measuring amps on L1) and convert the reading to a DC low voltage reading which can be measured on CN1 at the power supply board (red and brown). It's worth noting that not every situation will have an error code appear. In cases where an error code is displayed, the LED breakdown is listed below.

MODELS: AOU18RLX, AOU24RLX, AOU36RLX, AOU42RLX, AOU24RML(1), AOU36RML(1)

ERROR CODE: 5x Operation & 3x Timer (wall mounts) E:18 (wired remote)



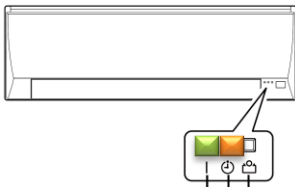
5x Operation 3x Timer



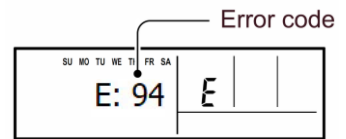
Wired remote display

MODELS: AOU18RLXFZ, AOU18RLXFZH, AOU24RLXFZ, AOU24RLXFZH, AOU36RLXFZ(1)

ERROR CODE: 9x Operation & 4 Timer (wall mounts) E:94 (wired remote)



9x Operation 4x Timer



Wired remote display

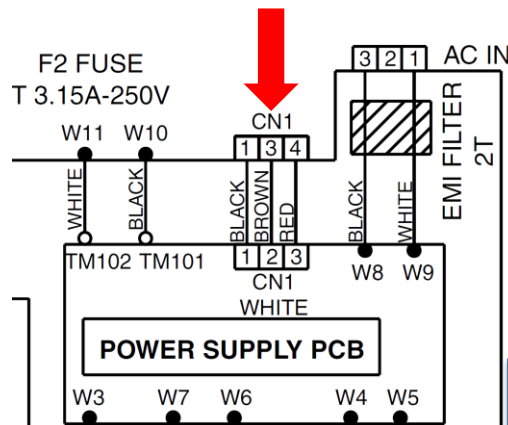


Diagram may be different depending on the model.

Improper or No Compressor Operation

Continuation:

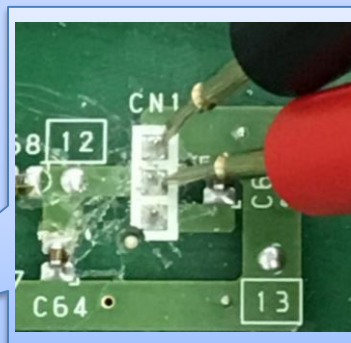
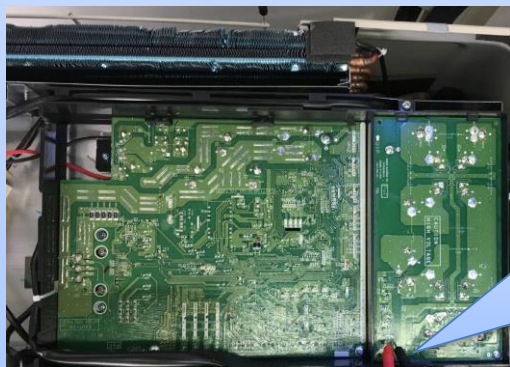
Confirm that CN1 is plugged into the power supply board. An unplugged connector will give you an error code, short cycle the compressor or hold back compressor RPM's.

You will need to measure DC volts at CN1(brown and red). The control board looks for 0.2vdc in 40 seconds and if it is not seen it will shut the compressor off. This could indicate a problem with IPM control board, ACTPM board or even a compressor. At times it may give a Current Transfer (CT) error code or Over Current Error. In this case check the refrigerant charge as high or low compressor RPM's in conjunction with a charge issue can trigger this error code.

If after 40 seconds the compressor is still running, continue to check amps on L1 and DC volts at CN1. (amps will be 10 times dc volts, if not this will indicate a bad power supply board). If unit senses higher amps than dc volts it will shut down and recycle on after 3 minute time delay.



CN1 DC Volts	L1 AMPS
0.2	2.0
0.5	5.0
1.1	11.0
+/- 20%	+/- 20%



The Power Supply Board should be replaced whenever there has been a verified electrical event which caused damage to the main controller board and/or the ACTPM board.

Other possible causes of a compressor short cycling could be a faulty high pressure switch or even a bad thermistor. These are described at length in other bulletins.88