Trouble Shooting Guide 2018
Check DC operation first then check AC/DC starting at #19

		YES	NO
1	Turn DC power on and turn thermostat to "7" position	**Go to #2**	
2	Is the compressor running? (Put your hand on top to feel slight vibration to be sure).	**Go to #16**	**Go to #3**
		Yes	**No**
3	DC Breaker is in the "on" position & optional fuse is good?	**Go to #5**	**Go to #4**
4	Replace fuse or turn breaker "on". Does optional fuse or breaker blow?	**Go to #6**	**Go to #5**
5	Check voltage at the refrigerator "+" & "-" terminals on the black module. Is it over 12.2 vdc? (or 24.5vdc where applicable)	**Go to #7**	**Go to #6**
6	Check batteries, wiring and connections to the refrigerator for fault, corrosion, proper wire sizing and correct the problem.	**Go to #1**	
7	Put a jumper wire between terminals "C" & "T". Is the compressor running now?	**Go to #12**	**Go to #8**
8	Disconnect small black wire from the fan that goes into the “F” terminal. Is the compressor running now?	**Go to #15**	**Go to #9**
9	Disconnect power. Remove electronic module (Philips screw beside terminal designation label will require removal). Disconnect the plug. Measure resistance (ohms) between each of the three compressor terminal pins. Is the measured resistance APPROXIMATELY the same?(it should be)	**Go to #10**	**Go to #11**
10	Replace Electronic Module.	**Go to #1**	
11	Have compressor replaced by qualified appliance technician who has the ability to evacuate and recharge the system. This is seldom necessary so please be sure and if possible contact Nova Kool for further instruction beforehand.		
12	Check wiring to thermostat with ohm meter to ensure there is continuity. (No broken or damaged wires or connectors). Is the wiring & speed resistor (if so equipped) okay?	**Go to #14**	**Go to #13**
13	Disconnect power. Repair or replace wiring or speed resistor (if so equipped) as necessary	**Go to #1**	
14	Replace thermostat.	**Go to #1**	
15	Replace Fan	**Go to #1**	
16	Have refrigerator in a well ventilated area (i.e. on cabin floor). After an hour is it refrigerating?	**Go to #17**	**Go to #18**

17	Check that adequate ventilation has been provided. 60 sq. in. for single door models and 120 sq. in. for 2-door models. See ventilation suggestion in this manual. Add ventilation as required.		
18	Have a qualified appliance technician determine if there is a refrigerant leak or a compressor with a mechanical problem.		
		Yes	**No**
19	Switch DC breaker off and AC breaker on. Does the compressor run?	**Go to #16**	**Go to #20**
20	Is there 110VAC or 220VAC available the AC plug on vessel?	**Go to #21**	**Go to #25**
21	Check Power on the “L” & “N” terminal on the electronic module (see AC/DC wiring diagram in this manual) is there 110vac or 220vac available?	**Go to #7**	**Go to #22**
22	Check 4 amp fuse on power plug on refrigerator (see picture), is it good?	**Go to #20**	**Go to #23**
23	Replace fuse 4 amp. Did it blow again?	**Go to #24**	**Go to #21**
24	Check wiring to “L” & “N” module, Is wire damaged or shorted out?	**Go to #26**	**Go to #10**
25	Check plug, wiring, breaker, shore power or genset for damage or fault. Repair or replace as required.	**Go to #19**	
26	Repair short or damage between plug & electronic module then **Go to #21**		