



12 Volt DC Fridge checklist

Complaint fridge is not cooling.

Verify unit is turned on at temperature control.

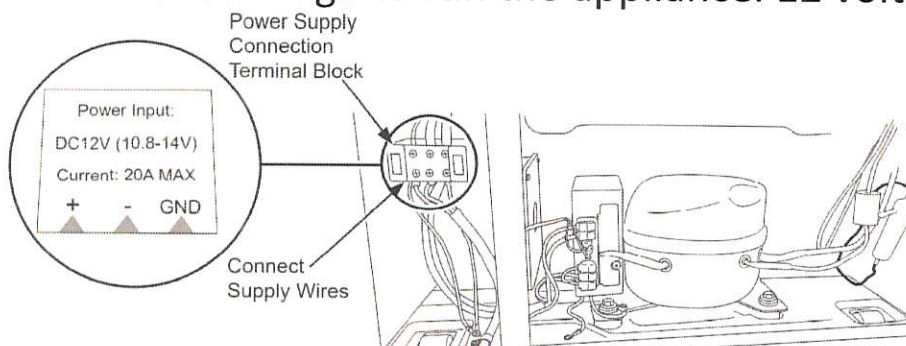
And light turns on when door is opened.

Ensure unit has been running for a few hours to start the Cooling process.

13.64V

Electrical tests

Make sure unit is supplied with 12v you should be able to verify with a multimeter at the power connect point on the back of the fridge. If on battery only there may be power but insufficient voltage to run the appliance. 12 volts is required.



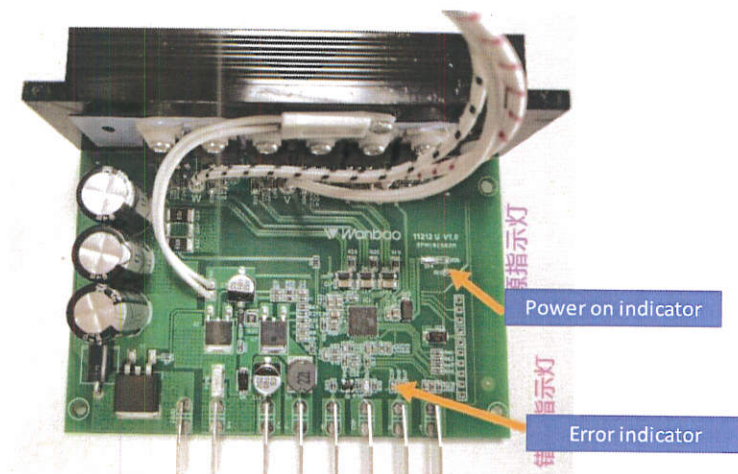
If the unit is on but not cool we would next verify the controls are working.

You can do an Ohms test across the 2 prongs on the back of the temperature control selector. In the off position there should be no continuity and across the cold, colder, coldest setting there should be continuity. OK

At the back of the fridge you should be able to see a red indicator light on the control board indicating it is working and you can feel the compressor running. OK

If at the control board you see a flashing light it is indicating a code and can be referenced in the board light code sheet.

GPV10 control board

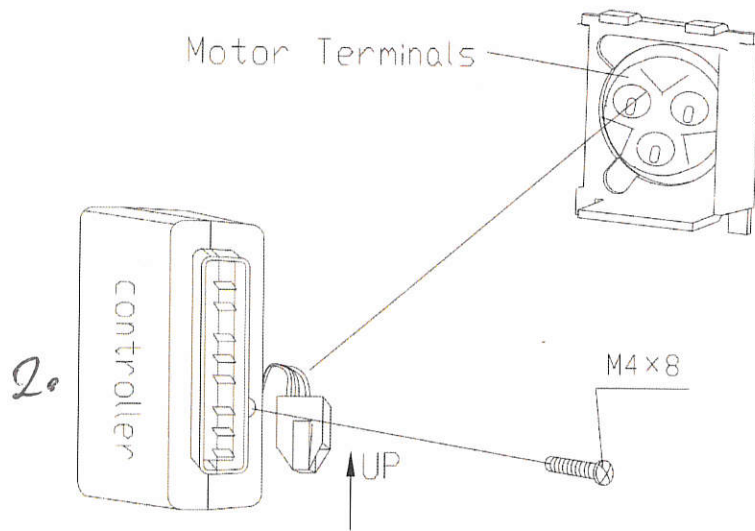


No Flash

GPV10 Error indicator

Flashing times	Issue
5	Control overload protection (Sealed system overload, or ambient temperature too high, control thermal protection triggered) Compressor cannot maintain minimum speed
4	(Sealed system overload, motor cannot maintain min speed 1850rpm) Compressor cannot start
3	(Motor blockage, or sealed system pressure too low) Fan over-current protection
2	(Fan shuts off due to output peak current to fan goes above 1A)
1	Battery low-voltage protection (Unit shuts off due to battery voltage too low)

If you have Power and everything indicates it is running and the unit is warm you can test the Compressor by doing a continuity test across the terminals there should be continuity. However no continuity should be read on any terminal to the case. OK



The main controls on a 12 volt fridge that are serviceable by a technician is the following.

- ✓ 1. Inside temperature control thermostat
- ✓ 2. Fridge control board on lower back unit of unit
- ✓ 3. Cooling fan
- ✓ 4. Electrical mounting block assembly lower left of fridge

Compressor is not serviceable if defective fridge unit would need replaced.