NOVA KOOL

Operation Instructions

1. Purpose: To be used in Vehicles, boats, while camping, as family storage of food, drinks, or medicines. (The things which could not be stored under the low temperature are shown on 5.2 of this instruction.)

2. Conditions of use: The refrigerator is designed to operate in an ambient temperature between -8℃ ~ 48 ℃ in a maximum air humidity of 90%. The refrigerator can work continuously at a maximum angle of 20°.

3. Operating instruction:

3.1 Battery operation: The refrigerator can be operated with 12V/24V direct voltage. The circuitry will automatically distinguish the voltage. Firstly, insert the cable into the refrigerator's power socket (See picture 1); then plug into the power supply of the vehicle (usually the cigarette lighter of the vehicle.) Put the power switch to "ON". It is suggested that you select the third gear. (See table 1)

Picture 1

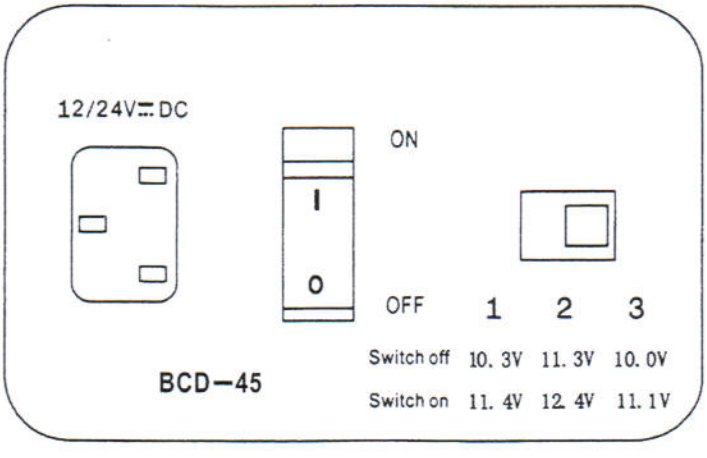
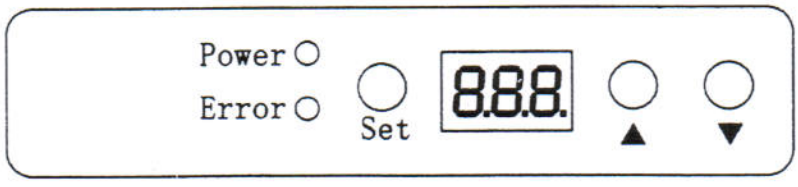


Table 1

	12V	24V
Ⅱ.	off voltage 11.3v; on voltage 12.4v	off voltage 23.9v; on voltage 25.2v
Ⅰ.	off voltage 10.3v; on voltage 11.4v	off voltage 22.2v; on voltage 23.4v
Ⅲ.	off voltage 10.0v; on voltage 11.1v	off voltage 21.6v; on voltage 22.9v

3.2 The Temperature Setting Panel has two mode, one is memory function mode, the other is factory setting mode (-15℃) The temperature range is 45℃ ~ -24℃.Memory function mode (see picture 2): After pressing the "set" for 2 seconds, press on "▽△",choose the temperature and lock the setting. You don't need to reset the temperature the next time if the temperature is the same to last time. Factory setting mode (-15℃):the temperature is set at -15℃when you turn on the fridge and the you could adjust the temperature as you need (see picture 2). Press the "set" for 2 seconds, and then press on "▽△ ",choose the temperature and lock the setting.

Picture 2



3.3 a. The operator control panel will display the temperature of the center part of the refrigerator. The temperature should change visibly within the first 15 minutes of operation.

b. The refrigerator's circuitry is designed with a delay protection technology to avoid overloading the vehicle at start up.

c. Under regular working conditions, the "power" indicator light is continuously shining; when the "error" indicator light shines please refer to "4. Automatic failure checking".

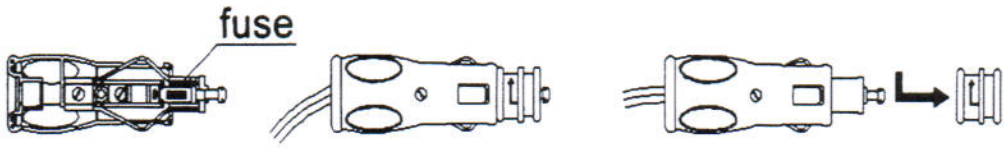
4. Automatic failure-checking: The refrigerator has the advanced macro adjustment technology, which can check a failure by itself. Please (see Table 2) for necessary action. If the problem still exists after solving it according to (Table 2), it should be seen to by a specialist. Never disassemble the refrigerator by yourself.

   The introduction of the failure checking: The red and the green indicator light display function as in(Table 2) ,"power" indicator light on means power; "error" indicator light on means error; when all the indicator lights are off, please check whether you need to replace the fuse inside the cable's plug (see picture 3).

Table 2

Failure Hint	The method of solving the problem
a. The "error" indicator light flashing once: voltage wrong	Turn off the refrigerator, choose the voltage setting again or the power voltage is shortage.
b. The "error" indicator light flashing twice: Current wrong (or the fan's current wrong)	Check whether the fan works well
c. The "error" indicator light flashing three times: Rotate speed wrong	Check whether the ambient temperature is too high or whether the air-entrance is jammed.
d. The "error" indicator light keeps flashing: Temperature wrong	Check whether the ambient temperature is too high or whether the air-entrance is jammed.

Picture 3



5. General

5.1 Please read the "Operating Introduction" before your use of the refrigerator;

5.2 Your refrigerator is designed to refrigerate or freeze food. If you wish to refrigerate medicine, first check if the refrigerator's cooling capacity meets the demands of the respective medicines;

5.3 After unpacking the device check that there are basket, fuse, cables and the operating introduction in the box;

5.4 Place the cooling device in a dry place which is protected against splashing water.

5.5 It should not be put directly adjacent to sources of heat such as heating, gas ovens, and hot water pipes or under the blazing sun;

5.6 The refrigerator must be installed in such a way that the air which is warmed up through the condenser can escape without problems; when you place the refrigerator in the vehicle's back, it should have 100mm distance to the things around;

5.7 The refrigerator can be operated with 12V or 24V direct voltage. Prior to connection check whether the voltage indication on the type plate is in accordance with the battery voltage;

5.8 The cable should be as short as possible and not interrupted

which could avoid loss of voltage and thus decrease of performance. Because of that reason avoid additional switches, plugs or feeder boxes;

5.9 If the connecting cable is too short or does not belong to the delivery scope of your model, you have to buy a corresponding cable or an extension by specialized dealers;

5.10 The cable cross section should not smaller than $2mm^2$

5.11 There is a 8 A fuse in the cable plug. When you change it, please (see Picture 3);

5.12After storing the staff, please check whether the lid is closed.

6. Safety instruction:

6.1 Don't touch non-insulated cables with bare hands. Be especially careful when handling AC cables. DANGER!

6.2 Always ensure that the refrigerator is connected to the correct voltage. (The voltage is stated on the refrigerator unit's data plate);

6.3 Don't open the refrigerator's circuit;

6.4 Never put the corrosive stuff in the wooden freeze equipment.

6.5 It is danger to put the glass bottle filled with liquid in the fridge, because there is possible that the bottle could explore after the expansion of the freeze liquid.

6.6 Don't block the radiator of the compressor;

6.7 Defrost your refrigerator periodically;

6.8 Please make sure the power is cut off when you maitain or clean the refrigerator.

6.9 Never use hard or sharp implements to remove ice from the evaporator;

6.10 Don't use abrasive or solvent-based materials to clean the evaporator;

6.11 It is normal when the surface partly has the mist liquid due to the moisture weather. It is not the malfunction of the fridge.

6.12 When the refrigerator comes to the end of its working life, please dispose of it in a manner as to ensure that it does not contaminate the environment;

6.13 Don't put glasses container or metallic tool in the refrigerator.

7. The refrigerator's reference data:

Type	BCD-45	BCD-60
Gross capacity	45 liters	60 liters
Dimension (height×length×width) mm	430X 650X400 (Packaging size: 520X723X472)	520X650X400 (Packaging size: 610X723X472)
Voltage	12/24V DC current: ≤4.2A + 10%	12/24V DC current: ≤4.5A + 10%
Average power consumption	≤50W + 15%	≤55W + 15%
Temperature range	8℃ to ≧-18℃ (Variable via electronic thermostat)	
Weight	Net: 20 kg	Net: 22.5 kg
Refrigerating Fluid	R134a	
Refrigeration capacity	Arrived -16℃ in 2hours. (Under the standard running condition and rated load)	
Other features	Digital temperatuer-control panel. The compressor could adjust the torque and rotate speed automatically.	