



45 LITRE TRANSIT FRIDGE

FRIDGE OR FREEZER



OWNERS MANUAL

Part No. 10001052

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GENERAL INFO AND SAFETY INSTRUCTIONS

Read This Manual Thoroughly Before First Use, even if you are familiar with this type of product. The safety precautions enclosed herein reduce the risk of fire, electric shock and injury when correctly adhered to. Keep the manual in a safe place for future reference, along with purchase receipt and carton. If applicable, pass these instructions on to the next owner of the appliance.

Always follow basic safety precautions and accident prevention measures when using an electrical appliance, including the following:

ELECTRICAL SAFETY & CORD HANDLING

Correct voltage: Make sure your local outlet voltage and circuit frequency corresponds to the voltage indicated on the appliance rating label.

NOTE: INTENDED USE: This is a portable product, designed for private use. It is exclusively designed for use in cars, caravans and other vehicles including mobile homes, campervans, rail cars and boats. It is designed to cool food and beverages and to be set up in dry, weather protected areas. It is not intended for stationary extended use as e.g. a second fridge at home.

Safe connection: Insert the plug firmly into a properly earthed AC mains or 12V DC socket, Do not alter the plug.

Protect from moisture: To protect against electric shock, do not immerse the cable, plug or the appliance itself in water or other liquid. Ensure your hands are dry before handling the plug or switching on the appliance. Do not use it on wet surfaces.

NOTE: Installation of AC in boats should be carried out by a qualified electrician.

Protect the power cable. Do not kink or damage the power cable. Do not wrap it around the appliance. Do not pull the unit by the cable. Do not use the cable as a handle, close a door on the cable or pull the cable around sharp edges or corners. Keep the cable away from heated surfaces.

Never touch uninsulated cables with bare hands.

This applies especially to handling AC cables.

For installations in boats: If the device is AC mains operated, it is important that the system is protected by a fuse and an earth leakage protection device.

Always ensure that the correct voltage is applied to the Fridge/Freezer. The voltage is stated on the Fridge/Freezer's data plate.

Never obstruct vents to the Fridge/Freezer's compressor.

Defrost the Fridge/Freezer on a regular basis.

Never use hard or sharp implements to remove ice from the cooling compartment.

Never use abrasive or solvent based materials when cleaning the cooling compartment.

Do not use any electrical appliances inside the cooling compartment.

NOTE: This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

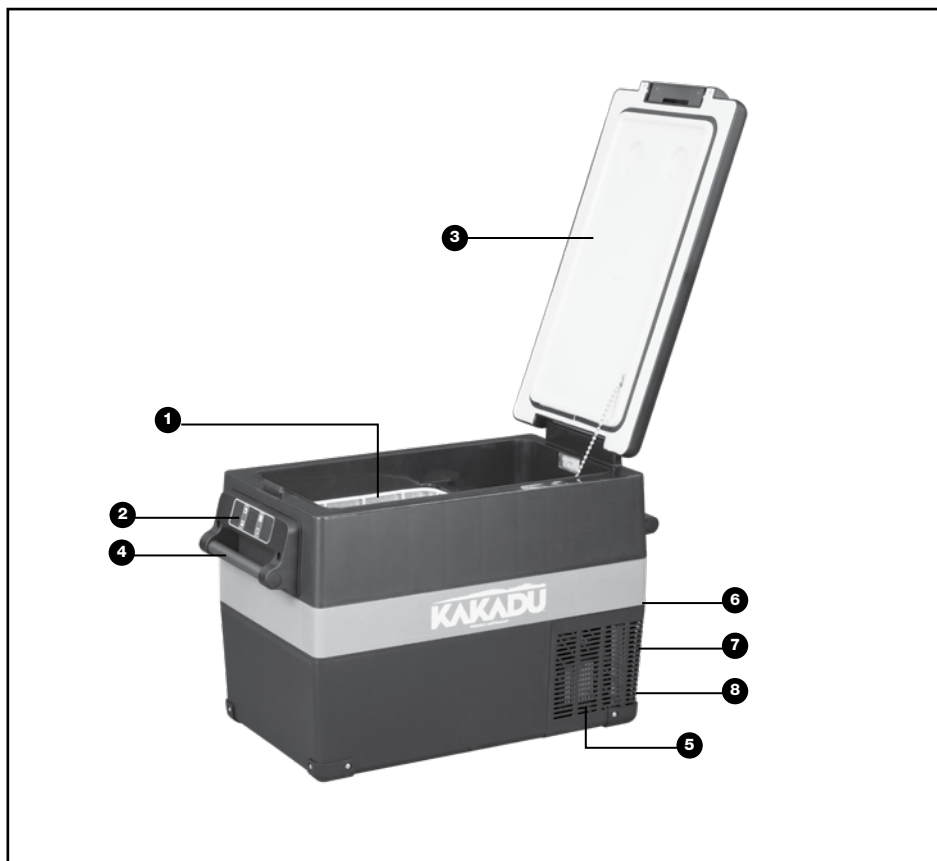
Do not expose to rain.

This appliance is suitable for camping use.

ASSEMBLY AND PARTS

SINGLE ZONE FRIDGE OR FREEZER

1. Internal Basket
2. Control Panel
3. Single Lid
4. Carry Handle
5. Air Flow Vent
6. Power Input Panel
7. AC Power Cable (Page 7.)
8. DC Power Cable (Page 7.)



GETTING STARTED

INSTALLATION

After unpacking the Fridge/Freezer check that no parts are missing. Place the unit in a dry place which is protected against splashing water. Do not place directly adjacent to sources of heat such as heating, gas ovens, hot water pipes or under the blazing sun.

It is important that your appliance is installed and operated in accordance with these instructions to guarantee its performance, efficiency and operation.



Fig. 1

APPLICATION & OPERATIVE COOLING RANGE

The cooling compartment has varying temperature zones. The values indicated on the digital display are related to the middle of the cabinet.

The 45L Transit Fridge or Freezer is designed to either refrigerate or freeze food. The Dairy Section (small compartment at rear) will only chill food, will never freeze. The Fridge/Freezer may be used for outdoor use such as for camping purposes.

If you wish to refrigerate medicines, first check to ensure the Fridge/Freezer's cooling capacity meets the demands of the respective medicines.

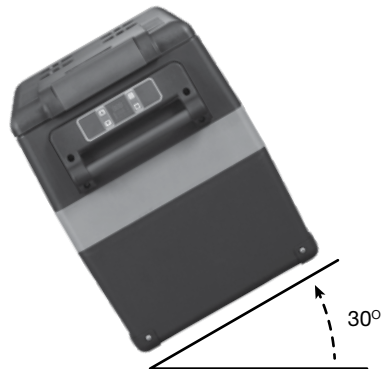
The Fridge/Freezer is designed to operate in ambient temperatures between 14F and 131F in a maximum air humidity of 90% and can operate continuously at an angle of 30° maximum.



Fig. 2

NOTE: The normal operation of the appliance requires heat to be radiated away from the condenser located at the end of the cabinet. Adequate airflow is required around the compressor at all times. (Fig. 1).

The cooling system has been designed to operate correctly when the appliance is positioned on angles up to 30 degrees. It is recommended that the time the unit is exposed to angles over 30 degrees is limited to a maximum of four (4) hours continuous operation. (Fig. 2).



OPERATING YOUR FRIDGE/FREEZER

POWER REQUIREMENTS

The Fridge/Freezer is designed to operate on AC or DC voltage.

AC input 110-120V AC at 60Hz to AC adaptor (e.g. electrical power point)

DC input 12V or 24V DC (e.g. car cigarette lighter or car battery)

If the Fridge/Freezer is operating when the vehicle ignition is switched OFF, the Fridge/Freezer will switch OFF automatically unless vehicle is fitted with dual battery system.

The Fridge/Freezer will automatically switch back ON when the vehicle is re-started and the power source voltage reaches the Battery Monitor cut-in setting.

OPERATING WITH 12/24V DC

Plug the 12V/24V DC power cable into the DC POWER socket (Fig 3.) on the end of the Fridge/Freezer and then connect to the vehicle cigarette lighter socket or suitable 12V or 24V DC power source.

The Fridge/Freezer will automatically turn on, there is no requirement to switch the appliance on.

The display will automatically show the current internal cabinet temperature.

For optimum performance and efficiency, it is important that the Fridge/Freezer has a reliable DC power source available. Direct connection to the battery is recommended and reduces the risk of voltage dropping too low for the appliance.

Use only the DC power cable supplied with the Fridge/Freezer.

Important: If a DC extension cable is required we recommended use of a AWG11 Twin Sheath Two Core cable with direct connection to the positive and negative battery terminals with 15A inline fuse protection.

12/24V DC Power Requirements

If your Fridge/Freezer is cutting out prematurely, it could be due to:

1. The battery voltage protection being set too high on the Battery Monitor (refer to page 9/10).
2. DC power cable and/or connections are not suitable to carry the required current. Check the power cable and all connections and adjust the Battery Monitor on the control panel if required.

The Fridge/Freezer is equipped with a multilevel Battery Monitor that protects your vehicle battery against excessive discharging when the Fridge/Freezer is connected to 12V or 24V DC power source.

Important: When using the Fridge/Freezer with DC power supply, we recommend setting the Battery Monitor to LOW if Fridge/Freezer not running off crank battery.

NOTE: A battery charger may only be connected to the battery when the Fridge/Freezer has been disconnected from the DC power source.

Re-connect fridge after charger has been connected. Over-voltage may cause damage to the electronics of the Fridge/Freezer.

Your Fridge/Freezer is equipped with reverse polarity protection. It protects your Fridge/Freezer against reverse battery connection and short circuit.

As a protection for your battery, the Fridge/Freezer switches OFF automatically if the power source voltage is insufficient. Fridge will only restart when voltage reaches cut in level.

NOTE: It is important that the correct cable size and gauge is used for the installation of the DC supply as over distance the voltage can decrease if the incorrect cable size and gauge cable is being used.

Always consult a qualified automotive electrician when using a DC extension cable.

OPERATING YOUR FRIDGE/FREEZER

OPERATING WITH AC ADAPTOR

Plug the AC power adaptor & cable into the Fridge power socket (Fig. 3) on the end of the Fridge/Freezer and then connect to a suitable AC power source.

The Fridge/Freezer will automatically turn on, there is no requirement to switch the appliance on.

The display will automatically show the current internal cabinet temperature.

CAUTION: Do not touch cables, plugs or switches with wet hands or when your feet are in contact with water! If you operate your Fridge/Freezer on board a boat by means of a shore connection to a AC power source, the power connection must include an earth leakage RCD residual current device.



Fig. 3



DC Power Cable
(Can be Cigarette connection or Merit connection by removing/replacing red twist cap (Fig.4))



Fig. 4

TEMP CONTROL/GENERAL OPERATION







When your Fridge/Freezer is first connected to the AC or DC power input the appliance will automatically switch on and the LCD control panel will display the current cabinet temperature, battery monitor and Eco setting as well as the current input voltage.

The Temperature Controller provides the ability to set the desired temperature level and display the current cabinet temperature. The electronic controller has been programmed to maintain an average of the set temperature.

The compressor will start up when the internal cabinet temperature increases 3F to 4F degrees above the set temperature and will run until the temperature is 3F to 4F degrees below the set temperature.

BATTERY DISPLAY

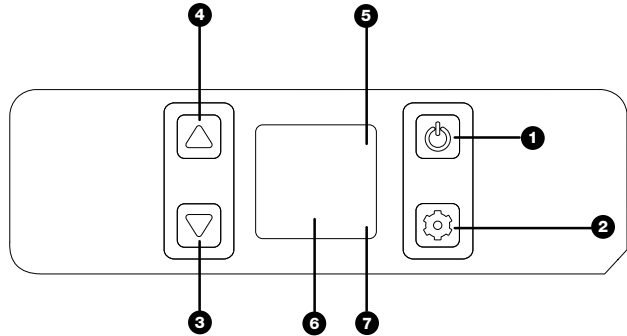
Voltage is measured at the input connection on the side of the appliance.

Battery Display	12V	24V
	9.6V or less	21.3V or less
	9.7V to 10.3V	21.4V to 22.4V
	10.6V to 11.0V	22.7V to 23.5V
	11.1V to 11.7V	23.6V to 24.6V
	11.8V to 12.4V	23.7V to 25.7V
	12.5V or above	25.8V or above

*Values are for reference only and may be subject to change depending on conditions and power supply.

CONTROL OPERATION

1. Power On/Off Button
2. Settings Button
3. Temp Decrease Button
4. Temp Increase Button
5. Temp Display
6. Battery Protection Display
7. Compressor Speed Display



Power – Off and On

1. Press power button & fridge will go into standby mode then switch off after 5 seconds
2. Press the power button & fridge will re-start with previously selected settings

Eco Function – Setting

1. Press the SETTINGS button to change the compressor between ECO & MAX

Cabinet Temperature – Setting

1. Adjust Temperature by pressing the + button to increase temp and the - button to decrease temp

Note: Maximum temperature settings are from 0F to 68F

2. Temperature display will flash when selecting temperature & return to solid display when showing actual internal temperature

Battery Monitor – Setting

1. Adjust by pressing & holding the SETTINGS button for 3 seconds until battery monitor setting flashes. Press SETTINGS button to change settings

12V DC Input	Cut Out	Cut In
HIGH	11.3V	12.6V
MEDIUM	10.1V	11.4V
LOW	9.6V	10.9V

24V DC Input	Cut Out	Cut In
HIGH	24.3V	25.7V
MEDIUM	22.3V	23.7V
LOW	21.6V	23.0V

CONTROL OPERATION

BATTERY MONITOR – SETTING

1. Adjust the setting by pressing the Battery Protection button until desired setting is highlighted on display

12V DC Input	Cut Out	Cut In
HIGH	11.3V	12.6V
MEDIUM	10.1V	11.4V
LOW	9.6V	10.9V

24V DC Input	Cut Out	Cut In
HIGH	24.3V	25.7V
MEDIUM	22.3V	23.7V
LOW	21.6V	23.0V

USING WITH SOLAR PANEL OR GENERATOR

USING WITH SOLAR PANELS

The power consumption and efficiency of your Fridge/Freezer makes it ideal to be used in conjunction with solar panels to provide recharging of the DC power source. Solar panels will provide charge into the battery during the daylight hours even while the appliance is operating.

As the output from solar panels changes depending on the level of sunlight and intensity, your Fridge/Freezer cannot be connected directly to the solar panels. The appliance must be connected to a suitable DC battery and then the solar panels connected to the battery.

We recommend the use of the quality regulated portable solar panel kits from 60 to 250 watts for use with your Fridge/Freezer.

DO NOT CONNECT THE FRIDGE/FREEZER DIRECTLY TO THE SOLAR PANEL AS IT WILL NOT WORK. CONNECTION MUST BE VIA THE BATTERY.

USING PORTABLE GENERATORS

It is important that the correct generator size is used with your Fridge/Freezer. An incorrect generator or voltage output may result in reduced performance or damage to your Fridge/Freezer which may void your appliance warranty.

If connecting directly to an AC generator, ensure that **only a digital or inverter type generator is used**. These provide a more reliable and constant AC output power source and are specifically designed for use with electronic and other power sensitive appliances.

Most generators are fitted with a DC power output socket - **DO NOT** connect your fridge directly to the DC power output of the generator as this will result in damage to your Fridge/Freezer and void warranty.

When charging the battery using a digital or inverter type generator, we recommend only using a 'smart battery charger' that is fully automatic, spark proof and reverse polarity protected. The battery charger is connected directly to the AC power output socket of the generator.

TIPS, MAINTENANCE & SERVICE

TIPS AND SUGGESTIONS

Fresh and frozen foods should not be stored right beside each other in the cabinet. Doing so may cause a fresh food to freeze and/or spoil.

When the appliance is being set at 32F or lower temperatures, do not store glass bottles or liquids such as milk, juices or soft drinks in the unit as these may freeze and shatter, leak or burst.

Items such as fruit and vegetables should be stored closer to the top of the cabinet as this area is normally slightly warmer. This will reduce the risk of spoiling and ensures that damage is not caused by being crushed by heavier items.

To improve the efficiency of your Fridge/Freezer it is better to have the cabinet as full as possible at all times. A full cabinet will provide lower power consumption over 24 hours than a half empty one. When the cabinet is full there is little air space between the goods so the cold air is trapped, but when there is lots of air the coldness cannot be captured and held. On a trip it is a good idea to replace finished products with bottles of water or similar. This will fill the empty spaces and allow the coldness to remain within the cabinet.

Frequent door opening will allow warm air to enter the cabinet. Keep the number of times you open the door to a minimum where possible.

When located in the rear of a car or trailer, it is recommended that the appliance be kept away from direct sunlight to reduce the risk of increased heat. It should also be provided with suitable ventilation to guarantee efficient power consumption and performance. You must remember that when a vehicle is parked in the sun that on a day where the ambient temperature is 86F, the interior of the vehicle can reach 131F.

MAINTENANCE & SERVICE

Your Fridge/Freezer will be delivered cleaned from the factory – you nevertheless should clean prior to initial use. Take a cloth which has been slightly moistened with lukewarm water. Pay attention that no water drops into the seals and possibly damages the electronics. Dry off the Fridge/Freezer with a cloth after cleaning. Clean your Fridge/Freezer periodically and as soon as it is dirty.

ATTENTION:

DO NOT use solvents or agents with sand or acid parts for cleaning your Fridge/Freezer.

DO NOT use brushes, graters or hard sharp tools to clean your Fridge/Freezer.

Before cleaning, the power cable should be disconnected and the Fridge/Freezer switched OFF.

Clean the Fridge/Freezer inside and out with a damp cloth. For stubborn dirt, use some sodium bicarbonate dissolved in lukewarm water.

After washing, rinse with clean water and dry carefully.

When storing your Fridge/Freezer for a long period of time, **DO NOT** fully close the lid. This will prevent mould and odours.

For additional queries, service and maintenance please email our After Sales Support contact@kakaduusa.com They will provide you with expert advice on further information you may require.

DISPOSAL

When it comes to the end of its working life, your Fridge/Freezer should be disposed of responsibly to ensure that it does not contaminate the environment. It would be advisable to contact your local council for advice on the disposal of this unit.

TROUBLE SHOOTING

ISSUE	POSSIBLE SOLUTIONS
The Fridge/Freezer will not turn on	Check the unit is switched ON – Press the power button to turn on
	Check the power source (voltage may be too low)
	Check the power cable and all connections from the power source to Fridge/Freezer
The contents of the fridge are freezing	The temperature has been set too low, therefore increase the temperature setting.
Poor refrigeration performance	Too much food has been put inside the unit
	Temperature of the food put inside the fridge is too high
	Ensure lid is closed properly
	Ensure power source has sufficient voltage
	There is poor ventilation around the fridge
	Ambient temperature is very high
	Temperature is not set correctly
There is a “water flow” type of noise from inside the unit	This is normal, caused by the flow of refrigerant
There is a noise from the unit	Ensure unit is on a flat level surface
	Check for vibrations in surrounding objects
Fridge/Freezer does not work and display does not illuminate	There is no voltage present in the 12V/24V cigarette lighter socket in your vehicle. The ignition must be switched ON in most vehicles to apply current to the cigarette lighter socket
	No voltage present in the AC voltage socket. Try using another plug socket
	The adaptor is defective.
Fridge/Freezer does not work and display does not illuminate when operating from the 12V/24V cigarette lighter socket with ignition switched ON.	The cigarette lighter socket fuse in vehicle is defective and must be replaced
	The cigarette lighter socket in vehicle must be cleaned or the plug has not been assembled correctly.
The display shows an error message (F1) and the Fridge/Freezer does not cool	Connected to DC power source, the Fridge/Freezer has switched off. This may be due to low voltage. Check Battery Monitor setting is on LOW. Re-start vehicle to increase battery voltage level. Test and charge battery
	The Fridge/Freezer has switched off due to an internal fault.

ERROR CODE INFORMATION

ERROR CODE	POSSIBLE CAUSE	SOLUTION
F1	Low voltage to fridge	DC - Increase voltage of DC power source/Check all connections
		AC - Replace defective 240V AC Power adaptor
F2	Condensor Fan Faulty	Replace condensor fan
F3	Compressor over pressure	Disconnect power to fridge for 20 minutes & attempt re-start
F4	Compressor not kicking in	Replace compressor control module
F5	Over Temperature of the compressor & electronics	Disconnect power to fridge for 20 minutes & attempt re-start
F7	Temperature Sensor Faulty	Replace temperature sensor

SPECIFICATIONS

Model	10001052
Capacity	45ft Single Zone
Weight	33lbs (empty)
Dimensions	27L x 14D x 18H (Inches) (Width includes handles)
Compressor	LG BCA018L
Current Draw	60W MAX (12VDC), 30W MAX (24VDC)
Cooling Range	68F to 0F
Power Input	45W
Insulation	PU Foam
Material	Polypropylene

NOTES

LIMITED WARRANTY

1. This warranty will apply only if you have purchased from us or our authorized dealer, and will apply only to the original purchaser who acquires the product for his or her own use.
2. **WARRANTY PERIOD:** we warrant that this product will be free from defects in materials and workmanship under normal use as described in the published product documentation for **36 months** and the integrated powerpack for **12 months** from the date of original purchase (Limited Warranty).
3. **WARRANTY:** You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if products fail to be of acceptable quality and the failure does not amount to a major failure.
4. To the extent permitted by any applicable local law:
 - a. Our obligations under this Limited Warranty are limited to the repair, replacement or refund of covered parts that prove defective under normal use during the Limited Warranty and does not extend to any claim for damages that you or any other person may have for any loss (including without limitation consequential damages or loss of profit, freight/shipping or travel costs), or damage howsoever caused whether or not such loss or damage arises as a result of any defect in the product or from the failure or omission on our part to comply with any obligation at law;
 - b. In replacing a defective product under the Limited Warranty, we may, at our discretion, substitute a model of equivalent nature where the exact model is unavailable;
 - c. This Limited Warranty does not apply to damage caused by failure and damage caused by improper use and abuse, fair wear and tear, accidents, misuse (including failure to follow instructions regarding care and maintenance of the product), neglect, disassembly, alterations or external causes such as, but not limited to, water damage, exposure to sharp objects, exposure to excessive force, anomalies in the electrical current supplied to the product (if applicable), and extreme thermal or environmental conditions;
 - d. We may elect, at our discretion and as an alternative to repairing or replacing a defective part, to refund the cost of the relevant product upon it being returned to us; and
 - e. This Limited Warranty does not extend to any products acquired for the purposes of re-supply, or for use in manufacturing, or repair processes.
5. This warranty may be claimed by: returning the product to its place of purchase, with a detailed proof-of-purchase clearly showing the date and detail of the purchase;
6. If you have any questions concerning this warranty policy, you may contact us in writing:
Adventure Operations, 71 Charles Ulm Place, Eagle Farm, 4009, QLD, Australia, or by
email: service@adventureoperations.com or visit our website: www.adventureoperations.com

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WARRANTY - For details see www.kakaduUSA.com/warranty

Designed by:

Adventure Trading Australia Pty Ltd
71 Charles Ulm Place,
Eagle Farm, QLD 4009
AUSTRALIA

Made in China

