



## OWNERS MANUAL



# 80L Upright Fridge/Freezer

1000774



[www.oztrail.com.au](http://www.oztrail.com.au)

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## GENERAL INFO & 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.

- **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, cars or any other vehicle must 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

## UPRIGHT FRIDGE/FREEZER

1. Internal Shelves and Storage
2. Control Panel
3. Single Door
4. Door Latch
5. Freezer Section
6. DC Power Cable
7. Mounting Feet



# 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.

## 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 Upright Fridge/Freezer is designed to either refrigerate or freeze food. The Fridge/Freezer may be used for outdoor use such as for camping purposes in 4x4 or Dual cab ute canopies.

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  $-10^{\circ}$  and  $+55^{\circ}$  C in a maximum air humidity of 90% and can operate continuously at an angle of  $30^{\circ}$  maximum.

**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). **When installing into cavity please ensure there is ventilation present to allow air flow**

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).



Fig. 1



Fig. 2

# OPERATING YOUR FRIDGE/FREEZER

## POWER REQUIREMENTS

The Upright Fridge/Freezer is designed to operate on DC voltage or via the included AC adaptor.

- 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 a socket or suitable 12V or 24V DC power source.
- It may be necessary to turn the fridge/freezer on using the power button the first time it is connected to power
- 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 to the appliance.
- Use only the DC power cable fitted to the Fridge/Freezer.

**Important:** If a DC extension cable is required we recommended use of a 6mm dia. (AWG11) 4.58mm<sup>2</sup> 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 to high on the Battery Monitor
  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 recommended 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.

- 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.

## OPERATING YOUR FRIDGE/FREEZER

- Always consult a qualified automotive electrician when using a DC extension cable.
- The Fridge/Freezer will automatically turn on UNLESS it was manually turned off before power was disconnected when last in use. If this is the case it will be in standby mode and needs to be turned on manually with the on/off power button on the control panel
- 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 220-240V AC power source, the power connection must include an earth leakage RCD residual current device.



**Note:** Protective Grill Removed to show internals

### OPERATING WITH 240V AC ADAPTOR

- Plug the AC power adaptor into the fridge anderson plug power socket, then connect the power plug to a suitable 240V AC power source.
- The Fridge/Freezer will automatically turn on UNLESS it was manually turned off before power was disconnected when last in use. It will then need to be manually turned back on with the power button.
- The display will then automatically show the current internal cabinet temperatures.



## TEMP CONTROL/GENERAL OPERATION

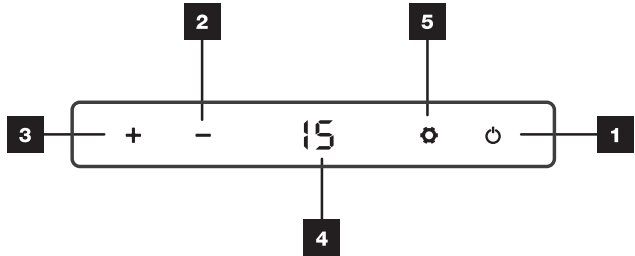
When your Fridge/Freezer is first connected to the DC power input the appliance will power up depending on the state it was disconnected in when last used - it will either turn on fully showing all info on the display or it will start up in standby mode & require the on/off button on the display to be pressed

- 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 0.5 to 2 degrees above the set temperature and will run until the temperature is 0.5 to 2 degrees below the set temperature.



# UPRIGHT FRIDGE/FREEZER OPERATION

1. Power On/Off Button
2. Temp Decrease Button
3. Temp Increase Button
4. Temp Display
5. Settings Button



## 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

## 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 -20°C to 20°C. We recommend +3 for a fridge or -17 for a freezer

2. Temperature display will flash when selecting temperature & return to solid display when showing actual internal temperature
3. To set the Freezer section press the settings button once, the left temp display will flash then set to desired temp with the +/- buttons as required
4. To set the Fridge section press the settings button twice, the right temp display will flash then set to desired temp with the +/- buttons as required

## BATTERY MONITOR – SETTING

1. Adjust the battery monitor setting by pressing & holding the settings button for 3 seconds until the current setting is flashing. Scroll through settings by pressing the settings button while display flashing until desired setting is reached. Setting will stop flashing to indicate it has been selected

We recommend using LOW or MEDIUM setting to avoid the F1 (Low Voltage) error

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

**Note:** NOTE: On the OZtrail 80L Upright Fridge Freezer the left temperature display is for the freezer section, the right display is for the main fridge section. The freezer section must be 20 degrees lower than the fridge section ie if you set Fridge temp to +3 the Freezer must be -17 or colder

## INSTALLATION

There are 2 feet fitted to the front of the unit that can be used to mount fridge to a drawer system etc

There are also three caps on each side of the inside of the fridge that can be removed & screws used to mount to a structure on either or both sides of the fridge

We recommend a space of the following dimensions be provided to fit the fridge if mounting in a cabinet:

- 525mm W x 490mm D x 800mm H

This will allow some circulation - you will also need to provide access for airflow/breathing around the compressor/electronics at the rear of the fridge - do not install in a completely sealed area or the fridge will overheat



# CHANGING DOOR OPENING DIRECTION

How to Swap door opening direction:

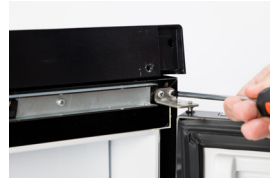
1. Remove the six screws holding the panel at the top of the fridge/freezer (contains the display) There are 3 screws across the top and 3 screws across the bottom of the panel (see pic)



2. Remove lower feet from fridge on both sides by undoing the 2 screws in each foot (see pic)



3. Carefully remove the door assembly from the upper retaining bracket (see pic)



4. Swap the door retaining pin on the upper door bracket to the opposing hole than it was located (see pic)



5. Fit door to the lower bracket retaining pin and hold in place

6. Fit upper retaining bracket in place, making sure the door pin locates in the door correctly (see pic)



7. Refit panel containing the display making sure all wires are in correctly and not rubbing on anything. Tighten 6 screws



8. Carry out operational test of fridge door and fridge to check all operations are normal

## 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 240V AC output power source and are specifically designed for use with electronic and other power sensitive appliances.
- 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 0° or lower temperatures, do not store glass bottles or liquids such as beer, milk, juices or soft drinks in the unit as these may freeze and shatter, leak or burst. We recommend +3 degrees for a fridge temperature and -17 for a freezer temperature
- Items such as fruit and vegetables should be stored in the crisper section 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 +30°C, the interior of the vehicle can reach +55°C.

### 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 contact our After Sales Support 1300 362 921 or [warranty@adventureoperations.com](mailto:warranty@adventureoperations.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.**

# TROUBLESHOOTING

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 including blade fuse
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 door 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 socket in your vehicle. The ignition must be switched ON in most vehicles to apply current to the socket
	Check inline fuse in the power lead of the unit
Fridge/Freezer does not work and display does not illuminate when operating from the 12V/24V cigarette lighter socket with ignition switched ON.	The socket fuse in vehicle is defective and must be replaced
	The socket in vehicle must be cleaned or the plug has not been assembled correctly or the fuse in the fridge lead has blown
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. Contact After Sales Support 1300 362 921

## ERROR CODE INFORMATION

Error Code	Possible Cause	Solution
F1	Low voltage to fridge	DC - Increase voltage of DC power source/Check all connections
		Check battery monitor is set to LOW or MEDIUM
F2	Condensor Fan Faulty	Contact After Sales Support 1300 362 921 to arrange repair
F3	Compressor over pressure	Disconnect power to fridge for 20 minutes & attempt re-start
F4	Compressor not kicking in	Contact After Sales Support 1300 362 921 to arrange repair
F5	Over Temperature of the compressor & electronics	Disconnect power to fridge for 20 minutes & attempt re-start
F7/F8	Temperature Sensor Faulty	Contact After Sales Support 1300 362 921 to arrange repair

## SPECIFICATIONS

Model	10000774
Capacity	80L Upright Fridge Freezer
Weight	26kg
Dimensions	484W x 437D x 790H mm
Compressor	LG BSA025LAVV
Current Draw	3.75A 12V/1.875A 24V
Cooling Range	+20°C to -20°C
Power Input	80W
Insulation	PU Foam
Material	Metal Body, Plastic lining

# WARRANTY

Adventure Trading Australia P/L warrants this product against defects for a period of two years from the date of purchase. Adventure Trading Australia P/L will repair or replace the product, at its discretion, should a warrantable defect arise within the warranty period. If the exact model is unavailable a model of equivalent nature will be substituted at our discretion. This warranty excludes faults and failures caused by improper use and abuse; fair wear and tear; or failure to follow instructions regarding care and maintenance. Products used for a commercial nature are not covered by this warranty against defects. A 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 or contacting Adventure Trading Australia P/L directly.

You can contact Adventure Trading Australia P/L Customer Service by phone on 1300 362 921, in writing: PO Box 1110, Eagle Farm QLD 4009. The benefits under Adventure Trading Australia P/L warranty against defects are in addition to other rights and remedies under law in relation to goods

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

For more detailed information and an explanation of these terms see [www.oztrail.com.au/warranty](http://www.oztrail.com.au/warranty) or email [warranty@adventureoperations.com](mailto:warranty@adventureoperations.com)

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