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JOYTUTUS TIAA3001-02203

JOYTUTUS Portable Refrigerator Fridge User Manual

Model: TIAA3001-02203

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and efficient operation of your JOYTUTUS Portable Refrigerator Fridge. Designed for versatility, this 23-quart (22L) unit functions as both a refrigerator and a freezer, suitable for vehicle, boat, and home use. It offers reliable cooling performance for camping, travel, and daily needs.



Figure 1: The JOYTUTUS Portable Refrigerator Fridge, a compact and versatile cooling solution.

Perfect Travel Essential Start your splendid road trip!



Figure 2: The portable fridge integrated into a travel setup, demonstrating its utility for road trips and outdoor activities.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage, please observe the following safety guidelines:

- Ensure adequate ventilation around the unit. Do not block air vents.
- Avoid exposing the unit to direct sunlight or excessive heat sources.
- Do not immerse the unit in water or expose it to heavy rain.
- Keep out of reach of children.
- Use only the provided power adapters and cables.
- The unit features car battery protection. For vehicle use, it is recommended to set the battery protection to 'High' (H) mode to prevent draining your vehicle's starting battery.
- Ensure the unit is stable and secure, especially when used in a moving vehicle. The unit is designed to operate safely even when tilted up to 45 degrees.

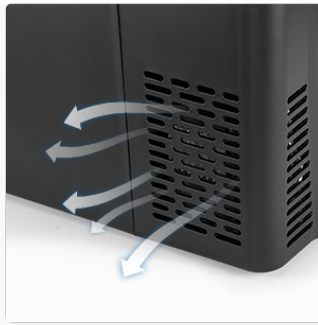


Figure 3: Illustration of proper airflow around the refrigerator to ensure efficient operation and prevent overheating.

LEANING UP TO 45°

Don't worry about the ice melting even the road is bumpy.



Figure 4: The portable fridge demonstrating its ability to operate effectively even when tilted, suitable for uneven terrains during travel.

3. PRODUCT FEATURES

Your JOYTUTUS Portable Refrigerator Fridge is equipped with advanced features for optimal performance:

- **Rapid Cooling:** Capable of cooling from 77°F (25°C) to 32°F (0°C) within 15 minutes, ensuring your items are chilled quickly.
- **Wide Temperature Range:** Adjustable temperature settings from -7.6°F (-22°C) to 50°F (10°C), allowing for both refrigeration and freezing.
- **Quiet Operation:** Operates at a low noise level of approximately 40dB, comparable to a quiet bedroom environment.
- **Car Battery Protection:** Features High (H), Medium (M), and Low (L) voltage protection settings to prevent your vehicle's battery from being fully discharged.
- **Energy Efficiency:** Offers ECO mode for energy saving (36W) and MAX mode for fast cooling (45W). Consumes less than 1 kWh per day in MAX mode.
- **Portability:** Lightweight design with an embedded handle for easy transport.
- **Capacity:** 23-quart (22L) capacity, capable of holding approximately 30 cans of 350ml cola or 20 bottles of 500ml water.
- **USB Charging Port:** Convenient USB port for charging small electronic devices.
- **Magnetic Door:** Ensures a secure and tight seal for efficient cooling.
- **Automatic Lock:** Control panel automatically locks after 60 seconds to prevent accidental temperature changes.

QUICK FREEZING

15 mins from 77°F to 32°F, keep your food fresh.



Figure 5: Visual representation of the rapid cooling mechanism, highlighting the condensing tube and compressor.

SUPER QUIET-40dB

Keep your journey quiet and undisturbed.

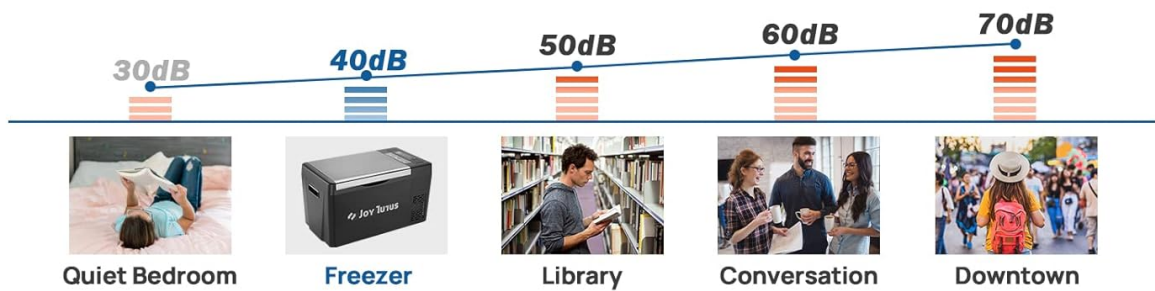


Figure 6: A comparison chart illustrating the low noise output of the fridge (40dB) relative to common sound environments.



Figure 7: The interior of the 23-quart fridge, demonstrating its capacity to hold multiple beverage cans.



Figure 8: Close-up view of the magnetic door mechanism, ensuring a secure and energy-efficient seal.

4. SETUP

Follow these steps for initial setup of your portable refrigerator:

1. **Unboxing:** Carefully remove the refrigerator from its packaging. Inspect for any damage.
2. **Placement:** Place the unit on a stable, level surface, ensuring adequate clearance for ventilation around all sides.
3. **Power Connection:**
 - **For Household Use (110V AC):** Connect the provided AC adapter to the fridge's power input and then plug it into a standard wall outlet.
 - **For Vehicle/Portable Power Station Use (12V/24V DC):** Connect the provided DC cord to the fridge's power input and then to your vehicle's 12V/24V outlet or a compatible portable power station.
4. **Initial Power On:** After connecting the power, press and hold the power button for 3 seconds to turn the unit on.



Figure 9: Illustration of the various power supply options: car/truck, power station/solar panel, and household socket.

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Video 1: An overview of the JOYTUTUS Portable Refrigerator Fridge, demonstrating its features and setup. This video highlights the product's dimensions, capacity, USB charging capability, and power connection options for both AC and DC sources.

5. OPERATING INSTRUCTIONS

Operating your JOYTUTUS portable refrigerator is straightforward:

1. **Power On/Off:** Press and hold the power button () for 3 seconds to turn the unit on or off.
2. **Temperature Adjustment:** Use the '+' and '-' buttons to adjust the desired temperature. The display will show the current temperature.
3. **Mode Selection (ECO/MAX):** Press the settings button (⚙️) to switch between ECO mode (energy-saving) and MAX mode (fast cooling).

4. **Temperature Unit Switch (°F/°C):** To switch between Fahrenheit (°F) and Celsius (°C), hold the settings button (⚙️) and the '+' button simultaneously for 3 seconds. Then, press '+' or '-' to select your preferred unit.
5. **Car Battery Protection Setting:** The unit has three battery protection levels: High (H), Medium (M), and Low (L). The factory default is typically 'H'. To change this, refer to the voltage protection table below. This feature prevents your vehicle's battery from over-discharging.
6. **Control Panel Lock:** The control panel automatically locks after 60 seconds of inactivity to prevent accidental changes. To unlock, press and hold the settings button (⚙️) for 3 seconds.
7. **USB Charging:** The integrated USB port can be used to charge small electronic devices. Simply plug your device's USB cable into the port.

CAR BATTERY PROTECTION

Stay away from running out of car batteries.

Disconnect Voltage	
H	(12V DC) 11.3V
	(24V DC) 24.6V
M	(12V DC) 10.1V
	(24V DC) 22.3V
L	(12V DC) 9.6V
	(24V DC) 21.3V

AUTO OFF



CONSUME LESS THAN 1 KWH PER DAY

ECO MODE: 36W

ECO Mode for Energy-Saving

MAX MODE: 45W

MAX Mode for Fast Cooling

Figure 10: Details on the car battery protection settings (H/M/L) and the power consumption for ECO and MAX modes.



Figure 11: A detailed view of the control panel, showing the power, settings, and temperature adjustment buttons.



Figure 12: Visual representation of the 60-second automatic lock feature, designed to protect temperature settings.

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Video 2: A demonstration of the JOYTUTUS 23-quart 12V car refrigerator, showcasing its features including dimensions, capacity, USB charging, and control panel operation for temperature and mode settings.

6. MAINTENANCE

Proper maintenance ensures the longevity and efficiency of your refrigerator:

- **Cleaning:**
 - Disconnect power before cleaning.
 - Wipe the interior and exterior with a damp cloth and mild detergent. Avoid abrasive cleaners.
 - Ensure the unit is completely dry before reconnecting power.
- **Ventilation:** Regularly check that the air vents are clear of dust and debris to maintain proper airflow.
- **Storage:** When not in use for extended periods, empty the fridge, clean it thoroughly, and leave the lid slightly ajar to prevent odors and mold growth. Store in a dry, cool place.

7. TROUBLESHOOTING

If you encounter issues with your JOYTUTUS Portable Refrigerator Fridge, refer to the following common solutions:

Problem	Possible Cause	Solution
Unit not turning on	No power, loose connection, power button not held long enough.	Check power source and connections. Hold power button for 3 seconds.
Not cooling sufficiently	Blocked vents, temperature setting too high, excessive ambient temperature, door not sealed.	Ensure vents are clear. Lower temperature setting. Move to a cooler environment. Check door seal.
Display shows error code	Internal fault.	Disconnect power for 5 minutes, then reconnect. If error persists, contact support.

Problem	Possible Cause	Solution
Vehicle battery draining	Battery protection set too low (L or M).	Adjust battery protection to 'H' (High) mode.

For more detailed troubleshooting or persistent issues, please contact JOYTUTUS customer support.

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Video 3: A user's perspective on the utility of a portable refrigerator in a minivan camper, discussing power solutions and the benefits of consistent temperature control over traditional coolers.

8. SPECIFICATIONS

Feature	Detail
Brand	JOYTUTUS
Model Number	TIAA3001-02203
Capacity	23 Quart (22 Liters)
Temperature Range	-7.6°F to 50°F (-22°C to 10°C)
Power Input	12V/24V DC, 110V AC
Rated Power (MAX Mode)	45W
Rated Power (ECO Mode)	36W
Item Weight	25.5 pounds
Product Dimensions (L x W x H)	22.7 x 12.6 x 13 inches
Internal Dimensions (L x W x H)	13.78 x 9.76 x 10.75 inches

Voltage Protection Reference

Voltage	High Mode	Medium Mode	Low Mode
12V DC	11.3V OFF, 12.5V ON	10.1V OFF, 11.4V ON	9.6V OFF, 10.9V ON
24V DC	24.6V OFF, 26V ON	22.3V OFF, 23.7V ON	21.3V OFF, 22.7V ON

Note: When the car refrigerator connects to the power and starts, ON or OFF refers to the ON or OFF of the compressor.

LIGHT WEIGHT & PORTABLE

23-QT CAPACITY



Figure 13: The external dimensions of the portable fridge, indicating its compact size for various placements.



Figure 14: A comprehensive table outlining the voltage protection levels (High, Medium, Low) for both 12V and 24V DC systems, crucial for safeguarding vehicle batteries.

9. WARRANTY AND SUPPORT

JOYTUTUS stands behind the quality of its products:

- **Warranty:** Your JOYTUTUS Portable Refrigerator Fridge comes with a 2-year quality warranty.
- **Technical Support:** Lifetime technical support is provided for this product.
- **Contact:** For any questions, technical assistance, or warranty claims, please do not hesitate to contact JOYTUTUS customer support. Refer to the product packaging or the official JOYTUTUS website for specific contact details.