

Techomey DSG-40B2U(A)

Techomey 1.4 Cu.Ft 3-Way Propane RV Refrigerator (Model: DSG-40B2U(A)) Instruction Manual

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Techomey 1.4 Cu.Ft 3-Way Propane RV Refrigerator. Please read these instructions thoroughly before use and retain for future reference. This refrigerator is designed for versatile use, offering cooling via 12V DC, 110V AC, or propane gas, making it suitable for various applications including RVs, camper vans, trucks, and off-grid cabins.

1. SAFETY INFORMATION

Always prioritize safety when installing, operating, or maintaining the refrigerator. Failure to follow safety guidelines can result in property damage, personal injury, or death.

- Ensure proper ventilation when operating on propane gas to prevent carbon monoxide accumulation.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- Keep ventilation openings in the appliance enclosure or in the built-in structure clear of obstruction.
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- Do not damage the refrigerant circuit.
- Only qualified personnel should perform service or repairs involving the gas system.

2. SETUP AND INSTALLATION

2.1 Unpacking

Carefully remove all packaging materials, including tape and protective films. Inspect the refrigerator for any shipping damage. Report any damage to your retailer immediately.

2.2 Placement

Place the refrigerator on a firm, level surface. Proper leveling is crucial for the efficient operation of the absorption cooling system. Use the adjustable feet to ensure stability.

Ensure adequate clearance around the unit for proper ventilation, especially at the rear where the cooling unit is located. This is

vital for optimal performance and safety, particularly when operating on gas.



Figure 1: Refrigerator dimensions for proper placement. The unit measures approximately 18.1 inches deep, 19 inches wide, and 22.2 inches high.

2.3 Power Connections

This refrigerator offers three power options: 12V DC, 110V AC, and Propane Gas.

- **110V AC Connection:** Plug the refrigerator into a standard 110V AC outlet.
- **12V DC Connection:** Connect the 12V DC cable to a suitable 12V power source, such as a vehicle's auxiliary power outlet or a dedicated 12V battery system. Ensure correct polarity.
- **Propane Gas Connection:** Connect the refrigerator to a propane gas supply using appropriate gas lines and fittings. All gas connections must be secure and leak-free. It is recommended that a qualified technician perform gas installations and checks.



Figure 2: The refrigerator supports three power sources: 110V AC, 12V DC, and Propane Gas.

2.4 Initial Operation

After connecting to a power source, allow the refrigerator to operate empty for at least 4-6 hours to reach its stable operating

temperature before loading with food items.

3. OPERATING INSTRUCTIONS

3.1 Control Panel Overview

The control panel is located at the top front of the refrigerator and features controls for power selection, temperature adjustment, and gas ignition.



Figure 3: The control panel features a transparent protective cover and clearly labeled controls for easy operation.

- **Rotary Switch (F):** Selects the power source (OFF, DC12, AC).
- **Thermostat Knob (D):** Adjusts the cooling temperature. Higher numbers indicate colder settings.
- **Flame Indicator (A):** Illuminates when the gas flame is active.
- **Battery Switch (B):** Used for igniting the gas burner.
- **Safety Valve Button (C):** Engages the gas safety valve during ignition.

3.2 Power Source Selection

Turn the Rotary Switch (F) to select your desired power mode:

- **DC12:** For 12V DC operation (e.g., vehicle battery).
- **AC:** For 110V AC operation (e.g., household outlet).
- **Gas:** For propane gas operation.

3.3 Temperature Adjustment

Rotate the Thermostat Knob (D) to set the desired cooling level. The temperature range is typically between 32°F and 50°F (0°C and 10°C). Adjust as needed for optimal food preservation.

3.4 Gas Operation (Ignition Procedure)

1. Ensure the refrigerator is connected to a propane supply and the gas valve is open.
2. Turn the Rotary Switch (F) to the 'Gas' position.
3. Press and hold the Safety Valve Button (C).

4. While holding (C), repeatedly press the Battery Switch (B) to ignite the burner.

5. Observe the Flame Indicator (A). Once it illuminates, continue holding the Safety Valve Button (C) for approximately 10-15 seconds to allow the thermocouple to heat up.

6. Release the Safety Valve Button (C). The flame indicator should remain lit, confirming successful ignition. If the flame goes out, repeat the process.

3.5 Adjustable Shelf

The refrigerator includes a sliding and removable shelf, allowing for flexible organization of your food and beverages. To adjust, simply slide the shelf out and reposition it to the desired height.

4. MAINTENANCE

4.1 Cleaning

Regular cleaning helps maintain hygiene and efficiency.

- **Interior:** Clean with a mild detergent and warm water. Rinse thoroughly and dry. Avoid abrasive cleaners.
- **Exterior:** Wipe with a soft, damp cloth.
- **Condenser/Cooling Unit (Rear):** Periodically clean dust and debris from the cooling unit at the rear of the refrigerator to ensure efficient heat dissipation. Disconnect power before cleaning.

4.2 Defrosting

This refrigerator features an automatic defrost system, minimizing the need for manual defrosting. If excessive frost builds up, manually defrost by turning off the unit, emptying its contents, and leaving the door ajar until frost melts. Clean and dry the interior before restarting.

4.3 Long-Term Storage

If the refrigerator will not be used for an extended period:

- Empty all contents and disconnect from all power sources (AC, DC, and propane).
- Clean the interior thoroughly and leave the door slightly ajar to prevent odors and mold growth.
- Store in a dry, well-ventilated area.

5. TROUBLESHOOTING

If you experience issues with your refrigerator, consult the following table before contacting support.

Problem	Possible Cause	Solution
Refrigerator not cooling	No power supply; Incorrect power source selected; Unit not level; Insufficient ventilation; Gas supply off or empty.	Check power connections (AC/DC); Ensure gas valve is open; Select correct power mode; Level the unit; Clear ventilation areas.
Unusual noise	Unit not level; Obstruction near cooling unit.	Ensure unit is level; Remove any obstructions. (Note: This model features a perfectly silent absorption cooling system, so significant noise is unusual).

Problem	Possible Cause	Solution
Gas flame not igniting	No gas supply; Ignition sequence incorrect; Faulty igniter.	Check gas supply and valve; Follow ignition procedure carefully; Contact service if igniter is suspected faulty.
Excessive frost buildup	Door not sealed properly; Frequent door opening; High humidity.	Check door seal; Reduce frequency of door openings; Perform manual defrost if necessary.

For issues not resolved by the troubleshooting guide, please contact customer support.

6. SPECIFICATIONS

Key technical specifications for the Techomey 1.4 Cu.Ft 3-Way Propane RV Refrigerator, Model DSG-40B2U(A).

Feature	Specification
Model Number	DSG-40B2U(A)
Capacity	1.4 Cubic Feet
Product Dimensions (D x W x H)	46.5D x 46W x 56.5H Centimetres (18.1 x 19 x 22.2 inches)
Item Weight	19.5 kg (43 Pounds)
Power Sources	12V DC, 110V AC, Propane Gas
Cooling Method	Absorption
Defrost System	Automatic
Voltage	110 Volts (AC)
Annual Energy Consumption	0.03 Kilowatt Hours (Electricity 0.7kwh/24h, Gas 0.2lb/24h)
Refrigerant	R-290
Special Features	Adjustable Shelves, Compact, Energy Efficient, Frost Free, Low Noise
Number of Doors	1
Installation Type	Freestanding

7. WARRANTY INFORMATION

This Techomey refrigerator comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, misuse, accidents, unauthorized repairs, or normal wear and tear. Please retain your proof of purchase for warranty claims.

8. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to make a warranty claim, please contact your retailer or

Techomey customer service. Have your model number (DSG-40B2U(A)) and proof of purchase ready when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question