

TOYOTOMI RR-GER25

TOYOTOMI GEAR MISSION RR-GER25 Convection Kerosene Stove User Manual

Model: RR-GER25

IMPORTANT SAFETY INFORMATION

Read all instructions carefully before using this appliance. Failure to follow these instructions may result in fire, explosion, property damage, personal injury, or death.

- **Use only Kerosene:** Never use gasoline, white gas, camping fuel, or any other flammable liquids.
- **Ventilation:** Always ensure adequate ventilation when operating the stove. Kerosene stoves consume oxygen and produce carbon monoxide.
- **Clearance:** Maintain a safe distance from walls, furniture, curtains, and other flammable materials.
- **Supervision:** Do not leave the stove unattended while in operation.
- **Children and Pets:** Keep the stove out of reach of children and pets.
- **Stability:** Place the stove on a firm, level, non-flammable surface. Do not move the stove while it is operating or hot.
- **Outdoor Use:** This model is designed for outdoor use. If used indoors, ensure extremely good ventilation and follow all safety precautions.
- **Emergency Shutdown:** Familiarize yourself with the emergency shutdown procedure.

1. PRODUCT OVERVIEW

The TOYOTOMI GEAR MISSION RR-GER25 is a high-performance convection kerosene stove designed for efficient and reliable heating. Its robust construction and thoughtful features make it suitable for various environments, particularly outdoor settings like camping. This Japanese-made stove combines functionality with a compact design.

Key Features:

- Red-heat convection heating system.
- Electronic ignition for quick startup.
- Automatic earthquake shutdown device for enhanced safety.
- Odor-saving extinguishing mechanism to minimize residual smell.
- Double-tank structure for spill prevention.

- Heating output of 2.54 kW.
- 4.9-liter fuel tank capacity.
- Suitable for heating areas up to 9 tatami mats (concrete) or 7 tatami mats (wooden).



Image 1.1: The TOYOTOMI GEAR MISSION RR-GER25 Kerosene Stove (Coyote color).

2. COMPONENTS

Familiarize yourself with the main parts of your RR-GER25 stove:

- **Protective Cage:** Surrounds the combustion chamber for safety.
- **Top Plate:** Located at the top, can be used for heating or cooking.
- **Wick Adjustment Knob:** Controls the height of the wick and thus the flame size and heat output.
- **Electronic Ignition Button:** Used to ignite the wick.
- **Extinguishing Lever:** Used to manually turn off the stove.
- **Fuel Tank:** Holds the kerosene fuel.
- **Fuel Gauge:** Indicates the remaining fuel level.

- **Wick:** The part that absorbs kerosene and burns.



POINT

無骨感あふれるデザイン

コンパクトなのに暖かい！ 燃烧筒が無骨さを引き立たせます。角張ったタンク形状や、シンプルかつ無駄のない本体操作部。ブラックのツマミが GEAR MISSION シリーズの特別感を強調しています。

Image 2.1: Close-up view of the control panel and design elements.

3. SETUP

1. **Unpacking:** Carefully remove the stove from its packaging. Retain all packaging materials for future storage or transport. Ensure all protective films and ties are removed.
2. **Placement:** Place the stove on a stable, level, and non-combustible surface. Ensure there is ample space around the stove (at least 1 meter from walls, furniture, and other flammable objects). Always use the stove in a well-ventilated area, especially if used in a semi-enclosed outdoor space.
3. **Fueling:**
 - Ensure the stove is completely cool and turned off.
 - Unscrew the fuel tank cap.
 - Slowly pour clean, clear kerosene into the fuel tank. Do not overfill; observe the fuel gauge.
 - Securely replace the fuel tank cap. Wipe up any spilled kerosene immediately.

4. **Wick Preparation (First Use/New Wick):** For the first use or after replacing the wick, allow at least 30 minutes for the wick to fully absorb the kerosene before attempting to ignite the stove. This prevents damage to the wick.

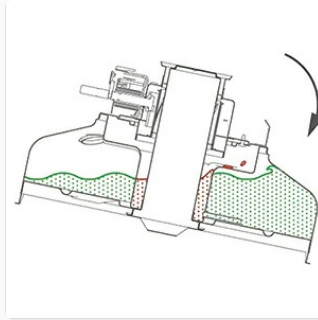


Image 3.1: Diagram of the double-tank structure designed to prevent fuel spills.

4. OPERATION

1. Ignition:

- Ensure the wick is fully raised by turning the wick adjustment knob clockwise.
- Press the electronic ignition button firmly. The wick should ignite. If it does not ignite on the first attempt, release the button and press it again.

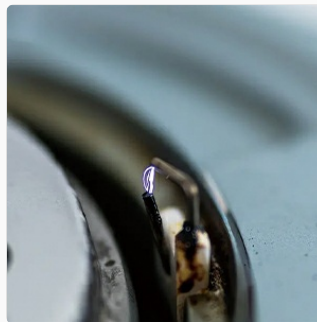


Image 4.1: Detail of the electronic ignition system.

2. **Adjusting Heat:** Turn the wick adjustment knob to raise or lower the wick. A higher wick produces a larger flame and more heat. Adjust to your desired heat output, ensuring the flame remains stable and does not produce excessive soot.

3. Extinguishing:

- To turn off the stove, push the extinguishing lever down. The wick will retract, and the flame will extinguish.
- The stove features an odor-saving extinguishing mechanism that minimizes the typical kerosene odor during shutdown.



Image 4.2: Illustration of the odor-saving extinguishing function.

4. **Automatic Earthquake Shutdown:** The stove is equipped with a safety device that automatically extinguishes the flame if it experiences a strong impact or earthquake. This is a crucial safety feature.

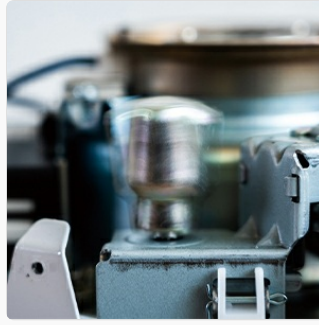


Image 4.3: Diagram showing the automatic shutdown mechanism in action.

5. **Cooking Function:** The top plate of the stove can be used for heating water or cooking. Ensure that any pots or pans used do not extend beyond the diameter of the top plate to maintain safety and efficiency.



POINT

天板の上で料理が可能

天板の上でお湯を沸かしたり料理が可能です。

【別売】専用ゴトクの「GM-RRGT1」を使用すると汚れや傷がつきにくくなります。

※ストーブで調理を行う際は、天板から鍋やかんの底がはみ出ないサイズのものをご使用ください

Image 4.4: The stove's top plate can be used for cooking or heating water.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your stove.

1. **Exterior Cleaning:** Wipe the exterior surfaces of the stove with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the stove is cool before cleaning.
2. **Wick Care:**
 - **Carbon Removal:** Periodically inspect the wick for carbon buildup. To remove carbon, allow the stove to run until it is almost out of fuel, then let it burn until the wick is completely dry. This process, known as 'dry burning,' helps to burn off carbon deposits. Refer to the detailed instructions in the full manual for specific procedures and frequency.
 - **Wick Replacement:** If the wick becomes too short, frayed, or damaged, it must be replaced. Use only genuine TOYOTOMI replacement wicks. Consult the detailed manual for wick replacement instructions.
3. **Fuel Tank Cleaning:** Periodically drain any remaining kerosene and clean the fuel tank to remove sediment or water buildup. Use a clean, lint-free cloth.
4. **Storage:** When storing the stove for an extended period (e.g., during off-season):
 - Drain all kerosene from the fuel tank.
 - Perform a dry burn to clean the wick.
 - Clean the exterior of the stove.
 - Store the stove in a dry, dust-free location, preferably in its original packaging.

6. TROUBLESHOOTING

If you encounter issues with your stove, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Stove will not ignite	Low fuel level Wick not fully raised Ignition mechanism issue	Refill fuel tank Turn wick adjustment knob clockwise to raise wick Ensure ignition button is pressed firmly; if issue persists, contact support
Weak flame or low heat output	Low fuel level Wick needs cleaning or replacement Poor ventilation	Refill fuel tank Perform wick cleaning or replacement Ensure adequate ventilation in the area
Excessive odor during operation	Improper wick height Contaminated kerosene Spilled kerosene	Adjust wick to appropriate height Drain and refill with clean kerosene Clean up any spills immediately
Stove shuts off unexpectedly	Automatic safety shutdown activated Low fuel level	Check for impacts or movement; ensure stove is on a stable surface Refill fuel tank

If the problem persists after attempting these solutions, please contact TOYOTOMI customer support.

7. SPECIFICATIONS

Feature	Detail
Brand	TOYOTOMI

Feature	Detail
Model Number	RR-GER25
Heating Output	2.54 kW
Fuel Tank Capacity	4.9 Liters
Applicable Area (Concrete)	9 Tatami Mats (15.0 m ²)
Applicable Area (Wooden)	7 Tatami Mats (11.5 m ²)
Product Dimensions (H x W x D)	480 x 388 x 388 mm
Package Weight	7.4 kg
Color	Coyote (also available in Olive)
Form Factor	Tower
Indoor/Outdoor Use	Outdoor Use
Battery Use	No (Electronic ignition is piezoelectric)
Country of Origin	Japan

8. WARRANTY AND SUPPORT

For detailed warranty information, product registration, or technical support, please visit the official TOYOTOMI website or contact their customer service department. Keep your purchase receipt as proof of purchase.

TOYOTOMI Official Website: www.toyotomi.jp