

## RATION GN551100AC



### RATION Carburetor Instruction Manual

FOR CAMPBELL HAUSFELD BRUSHLESS 5500 WATTS PORTABLE GENERATOR GN551100AC 10.0HP

#### Introduction

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This manual provides essential information for the safe and effective installation, operation, and maintenance of your RATION replacement carburetor. This carburetor is specifically designed for the Campbell Hausfeld Brushless 5500 Watts Portable Generator with a 10.0HP engine, model GN551100AC. Please read all instructions carefully before proceeding with installation or use to ensure proper function and safety.

#### Safety Precautions

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Adhering to these safety guidelines is crucial to prevent injury and damage to equipment.

- **Always disconnect the spark plug wire** before performing any service or maintenance to prevent accidental engine starting.
- Ensure the engine is completely **cooled down** before handling any components. Hot engine parts can cause severe burns.
- Work in a **well-ventilated area** when handling fuel. Fuel vapors are flammable and hazardous.
- Wear appropriate **personal protective equipment (PPE)**, such as safety glasses and gloves, during installation and maintenance.
- Handle fuel with extreme care. Fuel is highly flammable and can cause fires or explosions. Store fuel in approved containers.
- Refer to your generator's original owner's manual for additional safety guidelines and specific procedures.

## Product Components

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The RATION carburetor replacement kit includes the following components:

- Carburetor assembly
- Fuel line
- Fuel line clamps (4)
- Fuel filter
- Spark plug
- Air filter
- Gasket



*A complete RATION carburetor replacement kit, including the main carburetor unit, fuel line, clamps, fuel filter, spark plug, air filter, and gasket.*

## Installation Guide

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### Tools Required

- Screwdrivers (Phillips and Flathead)
- Wrenches/Socket
- Pliers
- Fuel container for draining
- Shop rags

## Step-by-Step Installation

1. **Preparation:** Ensure the generator is turned off and completely cooled down. Disconnect the spark plug wire to prevent any accidental engine starting during the procedure.
2. **Drain Fuel:** Place a suitable, approved container under the fuel tank and carburetor. Disconnect the fuel line from the carburetor and drain all fuel from the tank and lines into the container. Dispose of fuel properly.
3. **Remove Air Filter Assembly:** Loosen and remove the screws or clamps securing the air filter housing. Carefully remove the old air filter and housing components to gain access to the carburetor.
4. **Disconnect Linkages:** Carefully observe and note the position of all throttle and choke linkages connected to the old carburetor. Disconnect them, taking photos if necessary for reassembly.
5. **Remove Old Carburetor:** Remove the mounting nuts or bolts that secure the carburetor to the engine. Gently pull the carburetor away from the engine, ensuring all old gaskets are removed.
6. **Install New Gasket:** Place the new gasket (provided in the kit) onto the engine mounting studs, ensuring proper alignment with the intake port.
7. **Mount New Carburetor:** Carefully position the new RATION carburetor onto the mounting studs, aligning it with the new gasket. Secure it with the mounting nuts or bolts, tightening them evenly to prevent air leaks.
8. **Connect Linkages:** Reattach all throttle and choke linkages to the new carburetor in their original positions. Verify that they move freely without binding.
9. **Install New Fuel Line and Filter:** Connect the new fuel line to the carburetor and the fuel tank. Install the new fuel filter inline with the fuel flow, ensuring the arrow on the filter points towards the carburetor. Secure all connections with the provided clamps.
10. **Install New Spark Plug:** Remove the old spark plug and install the new spark plug (provided) into the engine. Tighten to the manufacturer's specifications (typically hand-tight plus 1/4 to 1/2 turn).
11. **Install New Air Filter:** Place the new air filter (provided) into the air filter housing and reassemble the housing securely.
12. **Final Checks:** Double-check all connections, ensuring they are secure and properly tightened. Reconnect the spark plug wire.



*A detailed view of the RATION carburetor, showing the fuel inlet and adjustment screws, crucial for proper installation and function.*

## Operating the Generator After Carburetor Replacement

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After successful installation, follow these steps to operate your generator:

1. **Refill Fuel Tank:** Add fresh, clean, and appropriate fuel to the generator's fuel tank. Ensure the fuel cap is securely tightened.
2. **Prime Carburetor (if applicable):** If your carburetor has a primer bulb, press it several times until fuel is visible in the fuel line or bulb, indicating the carburetor is primed.
3. **Choke Setting:** For cold starts, set the choke lever to the "CHOKE" or "START" position. For warm starts, the choke may not be necessary or only partially needed.
4. **Start Engine:** Follow your generator's specific starting procedure (e.g., pull start or electric start).
5. **Adjust Choke:** Once the engine starts and runs smoothly, gradually move the choke lever to the "RUN" position. If the engine falters, move the choke back slightly until it runs smoothly, then slowly move it to "RUN".
6. **Monitor Performance:** Allow the engine to warm up for a few minutes. Observe its operation for any unusual noises, vibrations, or fuel leaks. If any issues arise, refer to the troubleshooting section.

## Maintenance Guidelines

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Regular maintenance ensures optimal performance, fuel efficiency, and longevity of your carburetor and generator.

- **Fuel Filter:** Inspect the fuel filter every 50 hours of operation or annually. Replace it if it appears clogged, dirty, or discolored to ensure clean fuel delivery to the carburetor.
- **Air Filter:** Clean or replace the air filter every 25-50 hours of operation, or more frequently in dusty environments. A clean air filter is crucial for maintaining the correct fuel-air mixture and preventing engine damage.
- **Spark Plug:** Inspect the spark plug annually or every 100 hours. Clean or replace it if it is fouled, worn, or damaged. Ensure the spark plug gap is set according to engine specifications.
- **Fuel System:** Periodically check all fuel lines and connections for cracks, leaks, deterioration, or loose clamps. Replace any damaged components immediately.
- **Long-Term Storage:** Before storing the generator for extended periods (over 30 days), drain all fuel from the tank and carburetor, or use a high-quality fuel stabilizer to prevent gumming and corrosion within the fuel system.

## Troubleshooting Common Issues

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This section addresses common problems you might encounter and provides potential solutions.

### Engine Does Not Start

- **No Fuel:** Check the fuel level in the tank and ensure the fuel valve is in the "ON" position.
- **Clogged Fuel Filter:** Inspect the fuel filter for blockages. Replace if necessary.
- **Spark Plug Issues:** Check for spark by removing the spark plug, reconnecting the wire, grounding the plug, and pulling the starter. Clean or replace the spark plug if it's fouled or damaged. Ensure the spark plug wire is securely connected.
- **Incorrect Choke Setting:** Ensure the choke is set correctly for starting (fully choked for cold starts).

### Engine Runs Roughly or Stalls

- **Dirty Air Filter:** A restricted air filter can cause an overly rich fuel mixture. Clean or replace the air filter.
- **Stale Fuel:** Old or contaminated fuel can cause poor engine performance. Drain old fuel and refill with fresh, clean fuel.
- **Fuel Line Obstruction:** Check fuel lines for kinks, blockages, or debris restricting fuel flow.
- **Carburetor Adjustment:** While this carburetor is typically pre-set for optimal performance, minor adjustments might be needed in rare cases. If issues persist after checking other components, consult a qualified technician.

### Fuel Leaks

- **Loose Connections:** Inspect all fuel line clamps and connections for tightness. Tighten any loose clamps or fittings.
- **Damaged Gasket:** Check the carburetor mounting gasket for any signs of damage or improper seating. Replace if necessary.
- **Cracked Fuel Line:** Inspect the entire length of the fuel line for cracks, punctures, or deterioration. Replace any damaged fuel lines.

## Product Specifications

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- **Brand:** RATION
- **Compatible Generator Model:** Campbell Hausfeld Brushless 5500 Watts Portable Generator GN551100AC 10.0HP
- **Part Type:** Replacement Carburetor Assembly
- **ASIN:** B0FSKFSZ4F

## Warranty and Customer Support

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For any questions regarding installation, operation, or troubleshooting that are not covered in this manual, please contact RATION customer support. Information regarding specific warranty terms and conditions for this product can be obtained directly from the manufacturer or your point of purchase. Please retain your proof of purchase for warranty claims.