

HGHCCGHAC

# Generic 308054123 Carburetor Kit Instruction Manual

For RYi2300BT and RYi2300BTA Inverter Generators

## INTRODUCTION

This instruction manual provides essential information for the installation, operation, and maintenance of the Generic 308054123 Carburetor Kit. This kit is designed as a direct replacement for OEM part number 308054123 and is 100% compatible with RYi2300BT and RYi2300BTA Inverter Generators.

**Important:** Before proceeding with installation, verify that your generator's OEM part number matches 308054123 to ensure proper compatibility. Cross-reference your equipment's serial number if necessary.

## WHAT'S INCLUDED

The 308054123 Carburetor Kit includes the following components:

- 1x Precision Carburetor
- 1x Stepper Throttle Motor
- 1x Premium Spark Plug (E6TC)
- 1x High-Efficiency Fuel Filter
- 1x Sealing Gasket Set (includes multiple gaskets)



Image: The kit includes a spark plug, fuel filter, and a set of sealing gaskets, essential for a complete replacement.

## SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your generator. If you are unsure about any step, consult a qualified technician.

### Safety Precautions:

- Always ensure the generator is turned off and cooled down before beginning any work.
- Disconnect the spark plug wire to prevent accidental starting.
- Work in a well-ventilated area.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Handle fuel with extreme care. Avoid spills and open flames.

### Installation Steps:

1. **Drain Fuel:** Completely drain the fuel tank and carburetor bowl.
2. **Remove Air Filter Assembly:** Carefully detach the air filter housing and any associated components to access the carburetor.
3. **Disconnect Linkages and Hoses:** Disconnect the fuel line, throttle linkage, choke linkage, and any electrical connections from the old carburetor. Note their positions for reassembly.
4. **Remove Old Carburetor:** Unbolt and remove the old carburetor from the engine manifold. Be mindful of any gaskets.
5. **Install New Gaskets:** Place the new sealing gaskets in their correct positions between the engine, insulator, and new carburetor.
6. **Install New Carburetor:** Mount the new carburetor, ensuring it is properly seated. Secure it with the mounting bolts, tightening them evenly.
7. **Connect Linkages and Hoses:** Reconnect the fuel line, throttle linkage, choke linkage, and electrical connections to the new carburetor. Ensure all connections are secure and properly routed.
8. **Install Spark Plug:** Replace the old spark plug with the new E6TC spark plug provided in the kit. Ensure it is tightened to the manufacturer's specifications.
9. **Install Fuel Filter:** Replace the old fuel filter with the new high-efficiency fuel filter, ensuring the flow direction is correct.
10. **Reassemble Air Filter Assembly:** Reattach the air filter housing and all other components removed in step 2.
11. **Refill Fuel:** Add fresh, clean fuel to the generator's fuel tank.
12. **Initial Start-Up:** Follow the generator's manufacturer instructions for initial start-up after maintenance. Check for any fuel leaks or unusual operation.

## Carburetor Details



Image: Multiple views of the carburetor, highlighting its various components and connection points for installation reference.

### OPERATING GUIDELINES

After installing the carburetor kit, follow these general operating guidelines to ensure efficient performance of your RYi2300BT or RYi2300BTA generator.

- **Fuel Quality:** Always use fresh, clean, unleaded gasoline. Stale or contaminated fuel can cause carburetor issues.
- **Choke Operation:** For cold starts, use the choke as recommended by your generator's manual. Gradually open the choke as the engine warms up.
- **Engine Speed:** Allow the engine to warm up for a few minutes before applying a load.
- **Storage:** If storing the generator for an extended period, drain the fuel system or use a fuel stabilizer to

prevent fuel degradation and carburetor clogging.

## MAINTENANCE

Regular maintenance of your generator's fuel system components, including the carburetor, is essential for reliable operation.

- **Fuel Filter Replacement:** Inspect and replace the fuel filter annually or more frequently if operating in dusty conditions or with questionable fuel quality.
- **Spark Plug Inspection:** Check the spark plug every 50 hours of operation or annually. Clean or replace if fouled or worn. The included E6TC spark plug is a direct replacement.
- **Carburetor Cleaning:** If the generator experiences performance issues (e.g., rough idle, stalling), the carburetor may require cleaning. This typically involves disassembling the carburetor and cleaning jets and passages with carburetor cleaner.
- **Fuel System Flush:** Periodically flush the fuel tank and lines to remove sediment.

## TROUBLESHOOTING

This section addresses common issues you might encounter after installing the carburetor kit. Always refer to your generator's specific manual for detailed troubleshooting.

Problem	Possible Cause	Solution
Engine will not start	No fuel, clogged fuel filter, faulty spark plug, incorrect choke setting, fuel line kinked.	Check fuel level. Replace fuel filter. Inspect/replace spark plug. Adjust choke. Check fuel lines for obstructions.
Engine runs rough or stalls	Dirty carburetor jets, stale fuel, air leak around carburetor gaskets, improper throttle stepper motor function.	Clean carburetor. Use fresh fuel. Check gasket seating. Verify throttle stepper motor connections.
Fuel leaks	Loose fuel line connections, damaged carburetor bowl gasket, float needle issue.	Tighten all fuel line clamps. Inspect and replace carburetor bowl gasket if damaged. Check float assembly.
Loss of power	Partially clogged fuel filter, dirty air filter, carburetor not adjusted correctly.	Replace fuel filter. Clean/replace air filter. Ensure carburetor is functioning optimally.

## SPECIFICATIONS

Key specifications for the 308054123 Carburetor Kit:

- **OEM Part Number:** 308054123
- **Compatibility:** RYi2300BT, RYi2300BTA Inverter Generators
- **Kit Components:** Carburetor, Stepper Throttle Motor, Spark Plug (E6TC), Fuel Filter, Sealing Gasket Set
- **Material:** Aluminum (Carburetor exterior)
- **Item Weight:** Approximately 1.1 pounds (entire kit)
- **Product Dimensions:** Approximately 11.81 x 4.72 x 5.91 inches (packaging/overall kit size)
- **Model Number:** HGHCCGHAC





Image: Detailed dimensions of the carburetor, showing measurements for critical components like the throttle stepper and main body.

## WARRANTY INFORMATION

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Specific warranty details for this Generic product may vary. Please refer to the product packaging or contact the seller directly for information regarding warranty coverage and terms.

## CUSTOMER SUPPORT

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For any questions, technical assistance, or support regarding the 308054123 Carburetor Kit, please contact your retailer or the manufacturer's customer service. Refer to your purchase documentation for contact details.

**Online Resources:** For additional information or troubleshooting tips, you may also consult online forums or

resources dedicated to RYi2300BT and RYi2300BTA generator maintenance.