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RATION 801-08

RATION Carburetor Instruction Manual

For Craftsman Snow Thrower Models 247.886400 and 247886400

PRODUCT OVERVIEW

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your RATION replacement carburetor. This carburetor is specifically designed to ensure optimal performance and efficiency for compatible Craftsman snow thrower models.

COMPATIBILITY

This RATION carburetor is compatible with the following Craftsman snow thrower models:

- Craftsman 247.886400
- Craftsman 247886400

Please verify your snow thrower's model number to ensure proper fitment before installation.

INCLUDED COMPONENTS

The RATION carburetor kit typically includes the following parts:

- Carburetor Assembly
- Fuel Filter
- Primer Bulb
- Fuel Line
- Mounting Gasket



Image: The RATION carburetor kit, showing the main carburetor unit, a red fuel filter, a red primer bulb, a black fuel line, and a mounting gasket.

INSTALLATION INSTRUCTIONS

Safety First: Always ensure the snow thrower engine is off, cool, and the spark plug wire is disconnected before performing any maintenance or installation. Drain the fuel tank before beginning.

1. **Prepare the Snow Thrower:** Disconnect the spark plug wire to prevent accidental starting. Place a suitable container under the fuel tank and carburetor to catch any draining fuel.
2. **Remove Air Filter and Housing:** Carefully remove the air filter cover and the air filter element. Then, unbolt and remove the air filter housing to gain access to the carburetor.
3. **Disconnect Fuel Lines and Linkages:** Note the routing of all fuel lines and the connection points of the throttle and choke linkages. Disconnect these from the old carburetor. It is recommended to take photos for reference.
4. **Remove Old Carburetor:** Unbolt the carburetor from the engine manifold. Remove the old carburetor and any old gaskets.
5. **Install New Gasket:** Place the new mounting gasket onto the engine manifold, ensuring it is correctly aligned.
6. **Mount New Carburetor:** Carefully position the new RATION carburetor onto the gasket and secure it with the mounting bolts. Do not overtighten.
7. **Reconnect Fuel Lines and Linkages:** Reattach the throttle and choke linkages to their correct positions on the new carburetor. Connect the fuel lines, ensuring a secure fit to prevent leaks. Replace the old fuel filter with the new one provided in the kit, if applicable, and install the new primer bulb.
8. **Reassemble Air Filter Housing:** Reinstall the air filter housing, air filter element, and air filter cover.

9. **Refill Fuel and Test:** Refill the fuel tank with fresh, appropriate fuel. Reconnect the spark plug wire. Start the snow thrower according to its manufacturer's instructions and check for proper operation and any fuel leaks.

OPERATION CONSIDERATIONS

While the carburetor is a replacement part, its proper function relies on correct snow thrower operation:

- **Fuel Quality:** Always use fresh, clean gasoline with the correct octane rating as specified by your snow thrower manufacturer. Stale or contaminated fuel can cause carburetor issues.
- **Choke Usage:** Understand and correctly use the choke mechanism for cold starts. The choke enriches the fuel mixture, aiding in starting a cold engine. Gradually open the choke as the engine warms up.
- **Engine Speed:** Operate the snow thrower at the recommended engine speed for optimal performance and fuel efficiency.

MAINTENANCE

Regular maintenance of your carburetor and fuel system will extend its lifespan and ensure reliable operation:

- **Fuel System Cleaning:** Periodically inspect fuel lines for cracks or leaks. If the snow thrower is stored for an extended period, drain the fuel or use a fuel stabilizer to prevent gum and varnish buildup in the carburetor.
- **Fuel Filter Replacement:** Replace the fuel filter annually or more frequently if operating in dusty conditions or if fuel flow issues are observed.
- **Air Filter Inspection:** Ensure the air filter is clean and free of debris. A clogged air filter can affect the carburetor's performance.
- **Seasonal Checks:** Before each snow season, inspect all fuel system components, including the carburetor, for any signs of wear or damage.

TROUBLESHOOTING COMMON ISSUES

Refer to the table below for common carburetor-related issues and their potential solutions:

Symptom	Possible Cause	Solution
Engine won't start	No fuel, clogged fuel filter, stale fuel, clogged carburetor jet	Check fuel level, replace fuel filter, drain and refill with fresh fuel, clean or replace carburetor.
Engine runs rough or stalls	Dirty carburetor, incorrect fuel mixture, air leak	Clean carburetor, check for proper choke/throttle adjustment, inspect gaskets for leaks.
Fuel leaks	Loose fuel line connections, damaged fuel line, faulty carburetor float/needle valve, damaged gasket	Tighten connections, replace damaged components, inspect and repair carburetor float assembly, replace gasket.
Lack of power	Clogged fuel filter, dirty carburetor, restricted air intake	Replace fuel filter, clean carburetor, check and clean air filter.

PRODUCT SPECIFICATIONS

- **Brand:** RATION
- **Model Number:** 801-08
- **ASIN:** B0DZX6H22Q
- **UPC:** 670297611991
- **Compatibility:** Craftsman 247.886400, 247886400 Snow Throwers

SUPPORT AND WARRANTY

For technical assistance, replacement parts, or warranty inquiries, please contact the RATION customer support. Refer to your purchase documentation for specific warranty terms and contact information.