

RATION Intek 13.5 OHV 3130, 3105, 3115

Instruction Manual

RATION CARBURETOR FOR BRIGGS & STRATTON INTEK 13.5 OHV ENGINES

Models: 3130, 3105, 3115

1. Product Overview

This manual provides detailed instructions for the installation, operation, and maintenance of your RATION replacement carburetor. This carburetor is specifically designed for Briggs & Stratton Intek 13.5 OHV engines, including Powerbuilt models 3105 and 3115. It ensures proper fuel mixture for optimal engine performance, enhancing the efficiency and longevity of your equipment.



Image 1.1: The RATION replacement carburetor kit, including the main carburetor unit and various gaskets and hoses for installation.

2. Safety Information

Always observe the following safety precautions when working with engine components:

- Ensure the engine is cool and turned off before beginning any work.
- Disconnect the spark plug wire to prevent accidental starting.
- Work in a well-ventilated area, especially when dealing with fuel.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Keep flammable materials away from the work area.
- Refer to your engine's original service manual for specific safety warnings and procedures.

3. Parts List

Verify that all components are present before beginning installation:

| Item | Description | Quantity |
|------|-------------|----------|
|------|-------------|----------|

| Item | Description | Quantity |
|------|----------------------------|---------------------------|
| 1 | RATION Carburetor Assembly | 1 |
| 2 | Mounting Gaskets | As supplied (typically 2) |
| 3 | Fuel Line | 1 |
| 4 | Fuel Filter | 1 (if included) |
| 5 | Clamps/Hardware | As supplied |

4. Setup and Installation

This section outlines the general steps for replacing your carburetor. Specific procedures may vary slightly depending on your engine model. Always refer to your engine's service manual for detailed instructions.

1. Preparation:

- Ensure the engine is cool.
- Turn off the fuel supply valve, if present.
- Disconnect the spark plug wire to prevent accidental starting.
- Place a suitable container under the carburetor to catch any spilled fuel.

2. Remove Air Filter Assembly:

Carefully remove the air filter housing and air filter element to gain access to the carburetor.

3. Disconnect Fuel Line and Linkages:

Disconnect the fuel line from the carburetor. Note the routing of the fuel line. Carefully disconnect any throttle and choke linkages attached to the carburetor. Take photos if necessary to aid reassembly.

4. Remove Old Carburetor:

Unbolt the old carburetor from the engine. Be mindful of any gaskets between the carburetor and the engine block/intake manifold. Remove and discard old gaskets.

5. Install New Carburetor:

Install new gaskets on both sides of the new carburetor. Mount the new RATION carburetor onto the engine, ensuring it is properly seated. Tighten mounting bolts securely, but do not overtighten.

6. Reconnect Fuel Line and Linkages:

Reconnect the fuel line to the new carburetor. If a new fuel filter is supplied, install it in the fuel line. Reattach all throttle and choke linkages to their correct positions on the new carburetor.

7. Reinstall Air Filter Assembly:

Reinstall the air filter element and air filter housing.

8. Final Checks:

Ensure all connections are secure and there are no loose parts. Reconnect the spark plug wire. Open the fuel supply valve.

5. Operating Instructions

After installation, the engine should start and run smoothly. The carburetor is pre-tuned for optimal performance. No adjustments are typically required.

- **Starting the Engine:** Follow your engine manufacturer's recommended starting procedure (e.g., set choke, throttle position).

- **Engine Performance:** The new carburetor should provide consistent fuel delivery, leading to stable idle and smooth acceleration.

6. Maintenance

Proper maintenance of your engine and fuel system will ensure the longevity of your carburetor and overall engine performance.

- **Fuel Quality:** Always use fresh, clean fuel. Stale or contaminated fuel can clog the carburetor.
- **Fuel Filter:** Regularly inspect and replace the fuel filter as recommended by your engine manufacturer.
- **Air Filter:** Keep the air filter clean to prevent dirt and debris from entering the carburetor.
- **Storage:** If storing the engine for an extended period, drain the fuel from the carburetor bowl or use a fuel stabilizer to prevent gumming.

7. Troubleshooting

If you encounter issues after installing the new carburetor, consider the following common problems and solutions:

| Problem | Possible Cause | Solution |
|--------------------------|--|---|
| Engine will not start | No fuel, spark plug disconnected, incorrect choke setting, old fuel. | Check fuel level, reconnect spark plug, adjust choke, use fresh fuel. |
| Engine runs rough/surges | Air leak, clogged fuel filter, dirty air filter. | Check for loose connections/gaskets, replace fuel filter, clean/replace air filter. |
| Fuel leak | Loose fuel line, damaged gasket, float bowl not sealed. | Tighten fuel line clamps, replace gaskets, ensure float bowl is properly seated. |

If problems persist, consult a qualified service technician or refer to your engine's comprehensive service manual.

8. Specifications

| Attribute | Detail |
|---------------|--|
| Product Type | Replacement Carburetor |
| Brand | RATION |
| Compatibility | Briggs & Stratton Intek 13.5 OHV Engines (e.g., Powerbuilt 3105, 3115, 3130) |
| Manufacturer | RATION |
| UPC | 670308843014 |

9. Warranty and Support

For warranty information or technical support, please contact your retailer or the manufacturer directly. Ensure you have your purchase details and product information readily available.



Image 9.1: The official RATION brand logo.

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This manual is for informational purposes only. RATION is not responsible for any damage or injury resulting from improper installation or use of this product.