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## RATION RATION Carburetor for Craftsman 21" Lawn Mower (190cc 6.75hp engine)

# Instruction Manual

## RATION CARBURETOR FOR CRAFTSMAN 21" LAWN MOWER

Model: For Craftsman 21" Lawn Mower with 190cc 6.75hp engine

### Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your RATION replacement carburetor, designed specifically for Craftsman 21-inch lawn mowers equipped with 190cc 6.75hp engines. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

### Safety Information

Always prioritize safety when working with power tools and engine components. Failure to follow safety guidelines can result in serious injury or damage to equipment.

- Ensure the lawn mower engine is completely off and cooled down before beginning any work.
- Disconnect the spark plug wire to prevent accidental starting.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Work in a well-ventilated area.
- Keep flammable materials away from the work area, especially when dealing with fuel.
- If you are unsure about any step, consult a qualified technician.

### Product Overview

The RATION replacement carburetor is a precision-engineered component designed to deliver the correct air-fuel mixture to your lawn mower's engine, ensuring efficient combustion and optimal performance. It comes with necessary gaskets for a proper seal.



**Figure 1:** RATION replacement carburetor and included gaskets. This image shows the main carburetor unit, a black O-ring gasket, and a multi-hole paper gasket, all essential for installation.



**Figure 2:** Side view of the RATION replacement carburetor. This image provides a different angle of the carburetor, highlighting its various ports and mounting points, crucial for understanding its fitment.

## Setup and Installation

Follow these steps carefully for proper installation of the new carburetor.

### 1. Preparation:

- Ensure the lawn mower is on a flat, stable surface.
- Turn off the engine and allow it to cool completely.
- Disconnect the spark plug wire.
- Drain the fuel tank or clamp the fuel line to prevent spills.

### 2. Remove Air Filter and Housing:

Locate and remove the air filter and its housing to gain access to the carburetor.

### 3. Disconnect Fuel Line and Linkages:

Carefully disconnect the fuel line from the old carburetor. Note the position of all linkages (throttle, choke)

before detaching them. Taking a photo can be helpful.

#### 4. **Remove Old Carburetor:**

Unbolt the old carburetor from the engine. Be mindful of any gaskets that may be stuck to the engine block or intake manifold.

#### 5. **Clean Mounting Surface:**

Thoroughly clean the engine's mounting surface to ensure a proper seal with the new gaskets.

#### 6. **Install New Gaskets:**

Place the new gaskets provided with the RATION carburetor onto the mounting surface. Ensure they are correctly oriented.

#### 7. **Mount New Carburetor:**

Carefully position the new RATION carburetor onto the gaskets and secure it with the mounting bolts. Do not overtighten.

#### 8. **Reconnect Linkages and Fuel Line:**

Reattach the throttle and choke linkages to their correct positions. Reconnect the fuel line, ensuring it is secure and free of leaks.

#### 9. **Reinstall Air Filter and Housing:**

Replace the air filter and its housing.

#### 10. **Final Checks:**

Reconnect the spark plug wire. Refill the fuel tank if drained. Check all connections for tightness and ensure no tools or debris are left near the engine.

## Operating Instructions

Once the new carburetor is installed, the lawn mower should start and run smoothly. The carburetor is designed to be a direct replacement and typically does not require extensive adjustments for standard operation. However, minor adjustments might be needed depending on specific engine conditions and environmental factors.

- **Initial Start-up:** After installation, prime the engine if necessary (refer to your lawn mower's original manual). Start the engine and allow it to warm up for a few minutes.
- **Idle Adjustment (if applicable):** If the engine idles too fast or too slow, locate the idle speed screw on the carburetor (if present) and adjust it gradually until a stable idle speed is achieved.
- **Mixture Adjustment (rarely needed for replacement carbs):** Most replacement carburetors are pre-set. If significant performance issues persist, consult a professional. Do not attempt to adjust the fuel mixture unless you are familiar with the procedure, as improper adjustment can damage the engine.

## Maintenance

Proper maintenance of your carburetor and related engine components will ensure long-lasting performance.

- **Fuel Quality:** Always use fresh, clean fuel. Stale or contaminated fuel is a primary cause of carburetor issues. Consider using a fuel stabilizer, especially during storage.
- **Fuel Filter:** Regularly check and replace the fuel filter (if present) to prevent debris from reaching the carburetor.
- **Air Filter:** Keep the air filter clean. A clogged air filter can cause the engine to run rich and affect carburetor performance.
- **Storage:** Before long-term storage, run the engine until it runs out of fuel, or drain the fuel tank and carburetor bowl to prevent gum and varnish buildup.

## Troubleshooting

Problem	Possible Cause	Solution
Engine won't start	No fuel, clogged fuel filter, spark plug issue, incorrect installation.	Check fuel level, replace fuel filter, check spark plug, re-verify installation steps.
Engine runs rough/stalls	Dirty air filter, stale fuel, minor carburetor adjustment needed.	Clean/replace air filter, use fresh fuel, check for vacuum leaks.
Engine lacks power	Clogged fuel filter, dirty air filter, carburetor not delivering enough fuel.	Check fuel and air filters. Ensure carburetor is clean and properly installed.
Fuel leaks	Improperly seated gaskets, loose fuel line connection, damaged fuel line.	Check gasket alignment, tighten fuel line clamps, inspect fuel line for cracks.

If problems persist after attempting these solutions, it is recommended to consult a professional small engine mechanic.

## Specifications

- **Product Type:** Replacement Carburetor
- **Brand:** RATION
- **Compatibility:** Craftsman 21" Lawn Mower with 190cc 6.75hp engine
- **Part Number:** Refer to product packaging or original equipment manufacturer specifications for cross-reference.
- **UPC:** 670297703672

## Warranty and Support

For information regarding warranty coverage or technical support, please refer to the contact information provided with your purchase or visit the RATION official website. Keep your proof of purchase for warranty claims. For further assistance, you may contact the seller directly through the platform where the purchase was made.