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› [RATION](#) /

› RATION Replacement Shutter and Throttle Plate for Tecumseh Engines (Models 631036, 640009)

RATION 631036, 640009

RATION Replacement Shutter and Throttle Plate Instruction Manual

FOR TECUMSEH ENGINE MODELS 631036, 640009, 17201, 18070, 18208, 18216, 19444

1. Introduction

This instruction manual provides essential information for the proper installation, operation, and maintenance of your RATION Replacement Shutter and Throttle Plate. This component is designed to replace original parts in various Tecumseh engine models, ensuring optimal engine performance and airflow. Please read this manual thoroughly before attempting any installation or maintenance procedures.

2. Product Overview

The RATION replacement part is a precision-engineered shutter and throttle plate assembly. It is crucial for regulating the air-fuel mixture entering the engine, directly impacting engine efficiency and power output. This replacement part is compatible with Tecumseh 631036 and 640009 MPN numbers, as well as engine models 17201, 18070, 18208, 18216, and 19444.



Figure 2.1: Front view of the RATION Replacement Shutter Plate. This image shows the circular brass-colored plate with a central mounting hole and a small notch on the edge, indicating its function in regulating airflow.



Figure 2.2: Angled view of the RATION Replacement Throttle Plate. This image provides a slightly different perspective, highlighting the thickness and material finish of the plate, essential for its durability and precise fit within the carburetor assembly.

3. Safety Information

- Always ensure the engine is turned off and cooled down before attempting any installation or maintenance.
- Disconnect the spark plug wire to prevent accidental starting.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- If you are unsure about any step, consult a qualified technician.

4. Installation

This section outlines the general steps for replacing the shutter and throttle plate. Specific procedures may vary slightly depending on your Tecumseh engine model. Refer to your engine's service manual for detailed instructions if necessary.

1. **Preparation:** Ensure the engine is off, cool, and the spark plug wire is disconnected. Gather necessary tools, which typically include screwdrivers and wrenches.

2. **Access the Carburetor:** Carefully remove any air filter housing, shrouds, or other components that obstruct access to the carburetor.
3. **Remove Old Plate:** Locate the existing shutter or throttle plate within the carburetor. Note its orientation. Remove the small screw(s) holding the plate in place and carefully extract the old plate.
4. **Install New Plate:** Position the RATION replacement plate into the carburetor bore, ensuring it is oriented correctly. The plate should move freely without binding. Secure it with the original screw(s). Do not overtighten.
5. **Reassemble:** Reattach all components removed in step 2, ensuring all connections are secure.
6. **Final Check:** Reconnect the spark plug wire. Before starting the engine, manually operate the throttle linkage to ensure the new plate moves smoothly and fully opens and closes.

5. Operation Check After Installation

After installing the replacement plate, perform the following checks to ensure proper function:

- **Throttle Response:** Start the engine and observe the throttle response. The engine should accelerate smoothly and return to idle without hesitation.
- **Idle Stability:** Ensure the engine maintains a stable idle speed.
- **Airflow:** Listen for any unusual sounds that might indicate improper airflow or a loose component.

6. Maintenance

Regular maintenance helps prolong the life of your engine and its components. Inspect the shutter and throttle plate periodically:

- **Inspection:** Check for any signs of wear, corrosion, or damage to the plate. Ensure it moves freely within the carburetor bore.
- **Cleaning:** If necessary, carefully clean the plate and surrounding carburetor area with a carburetor cleaner. Avoid harsh abrasives that could damage the surface.
- **Linkage Check:** Verify that the throttle linkage connected to the plate is free of obstructions and operates smoothly.

7. Troubleshooting

If you encounter issues after installing the RATION replacement plate, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Engine runs rough or stalls	Plate not seated correctly; linkage binding; carburetor issues.	Recheck plate installation and linkage movement. Inspect carburetor for other issues.
Poor throttle response	Plate not opening/closing fully; incorrect linkage adjustment.	Ensure full range of motion for the plate. Adjust throttle linkage if necessary.
Engine not starting	Plate stuck closed; other engine issues.	Verify plate movement. Check fuel, spark, and compression.

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional engine technician.

8. Specifications

Brand: RATION

Compatible MPN Numbers: Tecumseh 631036, 640009

Compatible Engine Models: Tecumseh 17201, 18070, 18208, 18216, 19444

Part Type: Shutter Plate, Throttle Plate

Material: Durable construction for long-lasting use.

9. Warranty and Support

For information regarding warranty coverage or technical support, please refer to the product packaging or contact RATION customer service directly. Keep your purchase receipt as proof of purchase.