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maXpeedingrods TOY505

maXpeedingrods 2-Barrel 22R Carburetor TOY-505 Instruction Manual

Model: TOY-505 | Brand: maXpeedingrods

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your maXpeedingrods 2-Barrel 22R Carburetor, model TOY-505. Please read these instructions thoroughly before beginning any work to ensure proper function and safety.

Your browser does not support the video tag.

Video: Overview of the maXpeedingrods 2-Barrel 22R Carburetor, showing various angles and components.

2. Safety Information

Always observe standard automotive safety procedures when working on your vehicle. This includes:

- Disconnecting the battery before starting work.
- Wearing appropriate personal protective equipment (PPE) such as safety glasses and gloves.
- Ensuring the vehicle is securely supported on jack stands if raised.
- Working in a well-ventilated area.
- Handling fuel and other automotive fluids with care.
- If you are unsure about any step, consult a qualified mechanic.

3. Package Contents

Verify that all components are present and undamaged upon opening the package:

- 1 x maXpeedingrods 2-Barrel 22R Carburetor (TOY-505)
- 1 x Screw
- 2 x Gaskets
- Additional small parts (as supplied)



Image: The maXpeedingrods 2-Barrel 22R Carburetor TOY-505, shown with included gaskets and mounting screw.

4. Specifications

Feature	Detail
Model	TOY-505
Engine Compatibility	Toyota 22R Engine 2.4L I4 2366cc
Vehicle Compatibility	Toyota Pickup 1981-1986 and 1987 (First six months)
Choke Type	Automatic/Electric Choke with Round Plug Connector

Air Inlet Bore ID	40/32mm (1.57/1.26 inch)
Bolt Hole Spacing (Center To Center)	97 x 50mm (3.82 x 1.97 inch)
Venturi Diameter	40/26mm (1.57/1.02 inch)
Material	High strength zinc alloy
OEM Part Numbers	TOY-505, T0Y505, 22R, C4036, 21100-35463, MB-352-HCY, 35290

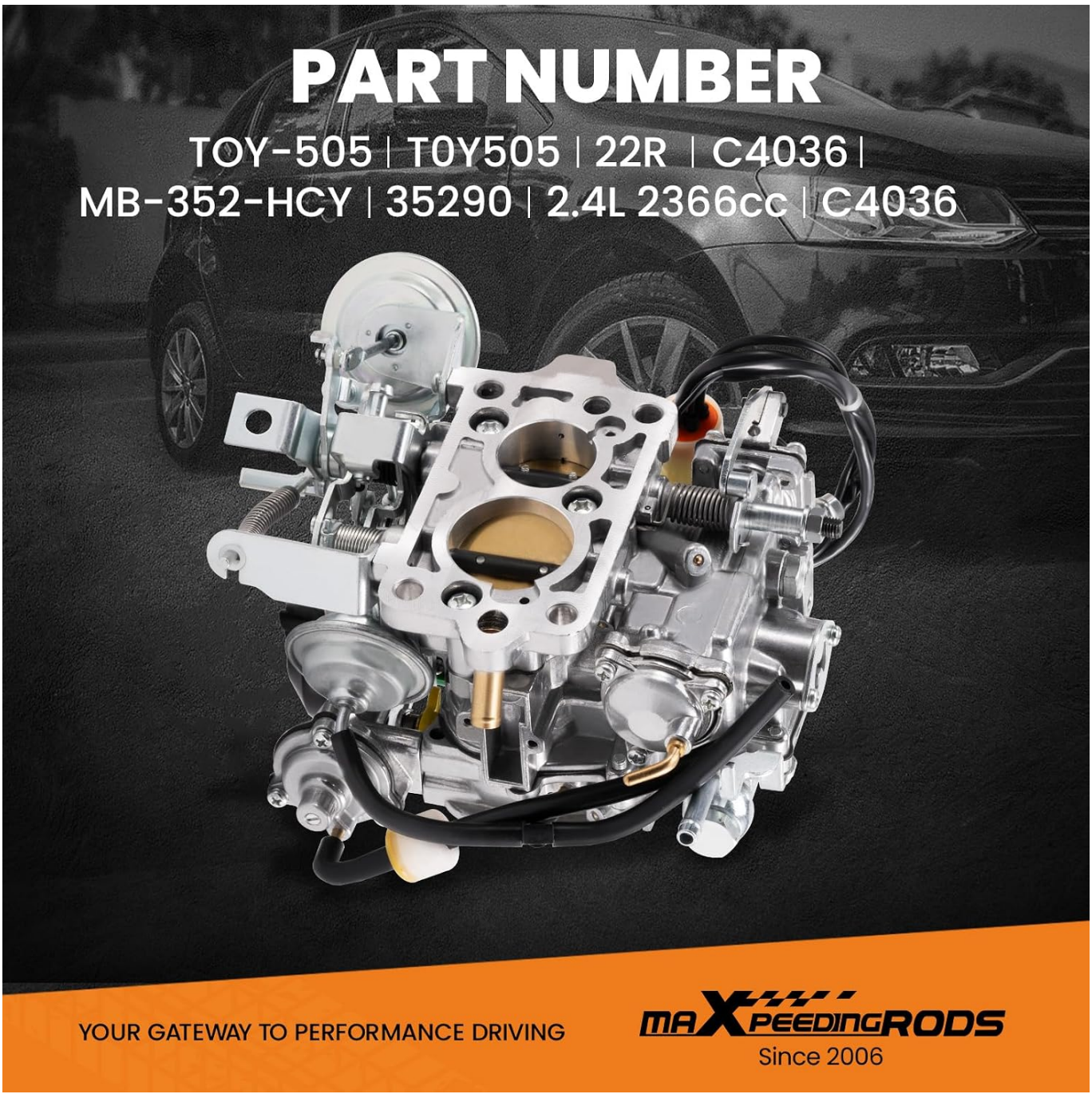


Image: The carburetor with its part number clearly visible, aiding in identification.



Image: Detailed view of the carburetor's mounting base with key dimensions for installation.



Image: Close-up of the carburetor highlighting its heavy-duty zinc alloy construction.

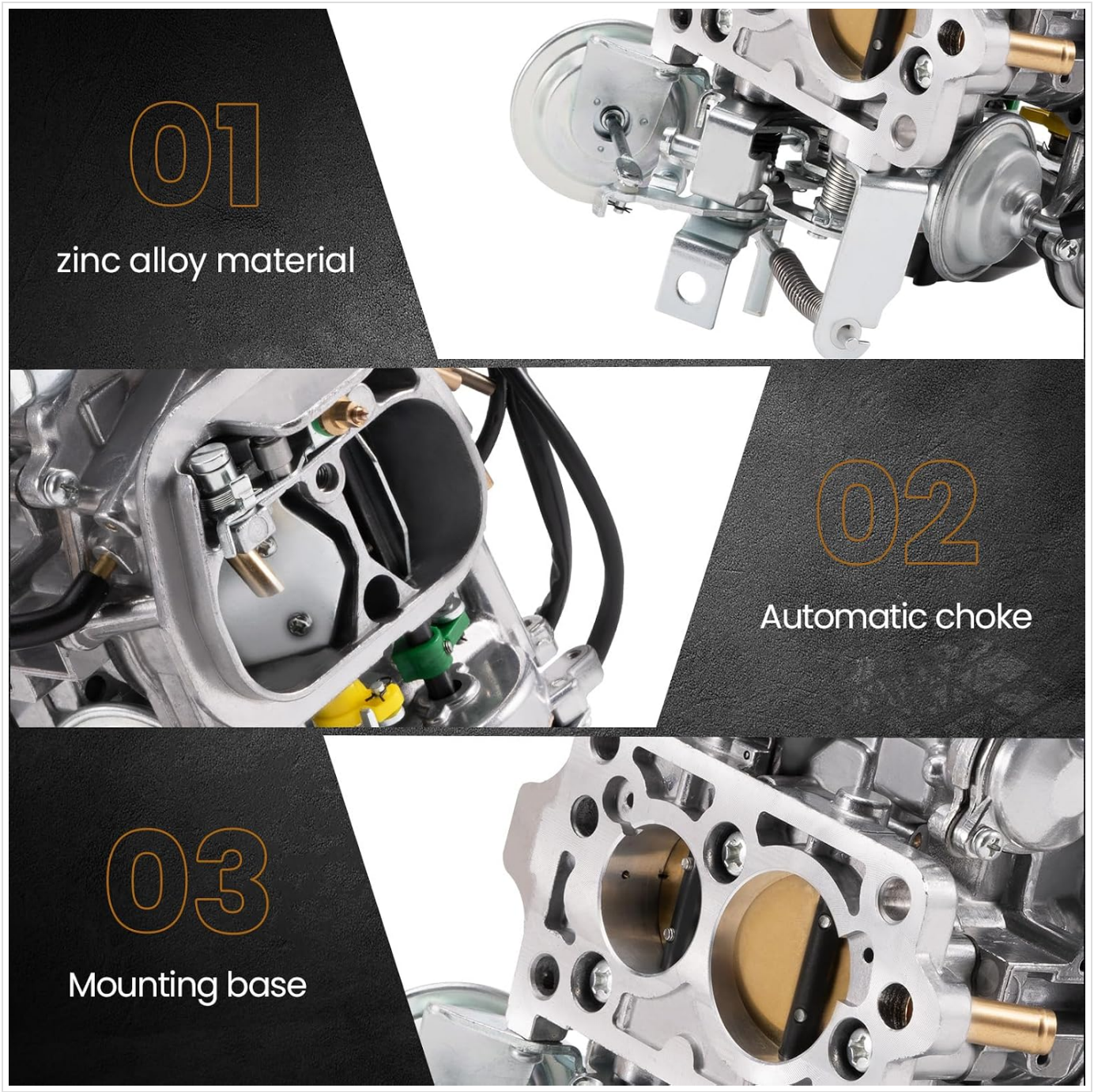


Image: Detailed views of the carburetor's key features: zinc alloy material, automatic choke mechanism, and mounting base.

5. Compatibility and Fitment

This maXpeedingrods TOY-505 2-Barrel Carburetor is designed for the following vehicles:

- **Toyota Pickup** with 22R Engine 2.4L l4 2366cc:
  - 1981-1986 models
  - 1987 models (First six months only)

It features a round plug connector and automatic choke. Please ensure your vehicle's original part number matches one of the listed OEM part numbers for proper fitment.

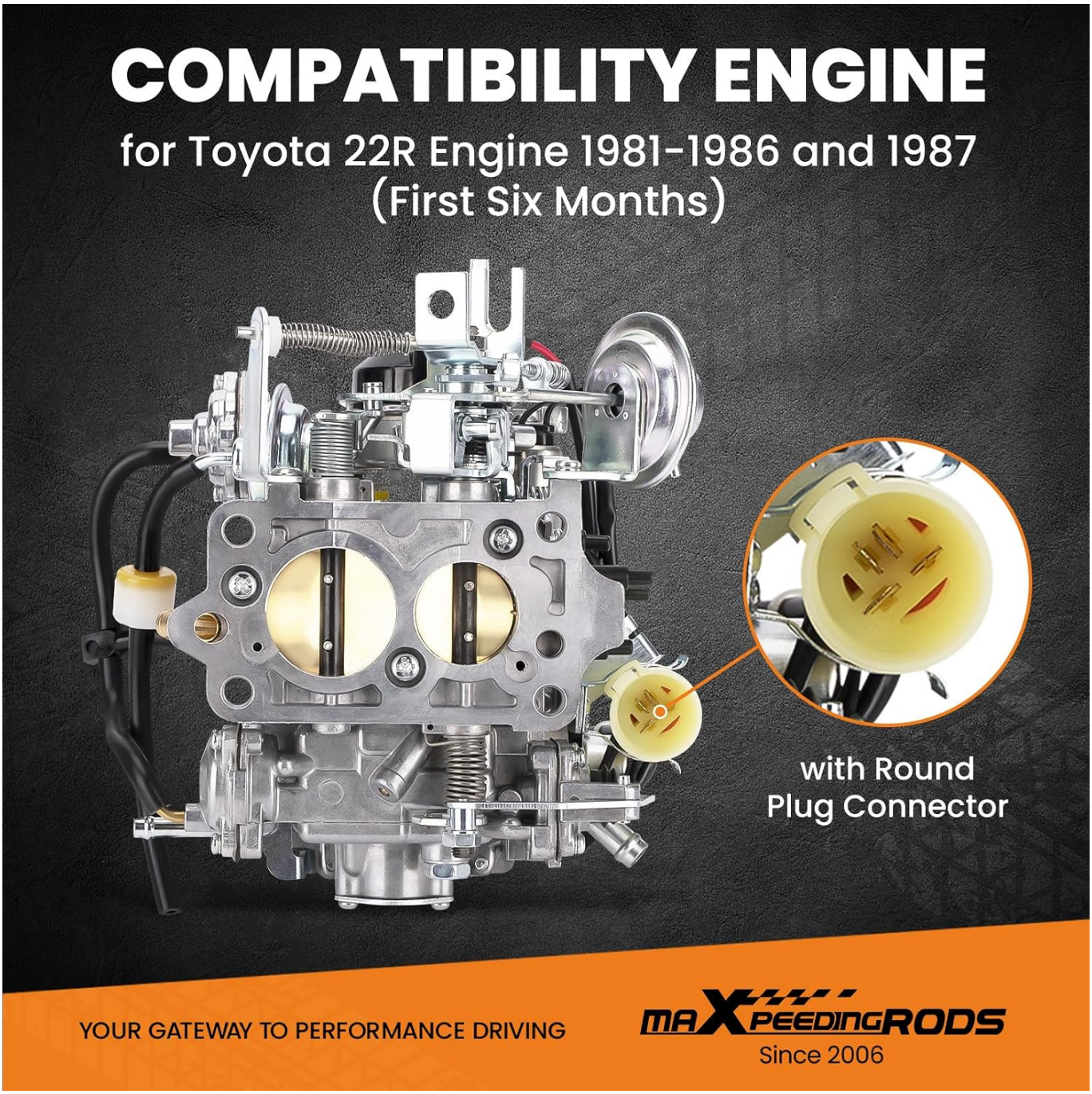


Image: Carburetor highlighting the round plug connector and compatible Toyota 22R engine years.



Image: Carburetor with a list of specific Toyota Pickup models and engine configurations it is designed for.

6. Setup and Installation

Installation of a carburetor requires mechanical knowledge and precision. If you are not confident in your abilities, it is recommended to seek professional assistance.

General Installation Steps:

1. **Preparation:** Disconnect the battery cables. Remove the air cleaner and any air intake ductwork.
2. **Disconnect:** Carefully identify and remove all vacuum hoses, fuel lines, and electrical connections from the old carburetor. Label them if necessary.
3. **Removal:** Unbolt and remove the old carburetor from the intake manifold.
4. **Surface Preparation:** Clean the intake manifold surface thoroughly to ensure a proper seal with the new gaskets.
5. **Gasket Placement:** Place the new gaskets onto the intake manifold.
6. **New Carburetor Installation:** Carefully position the new maXpeedingrods TOY-505 carburetor onto the manifold,

aligning it with the bolt holes.

7. **Secure:** Install the mounting screws and tighten them evenly to the manufacturer's specifications to prevent vacuum leaks.
8. **Reconnect:** Reattach all vacuum hoses, fuel lines, and electrical connections. Ensure all connections are secure and correctly routed.
9. **Air Filter:** Install the air filter assembly.
10. **Final Checks:** Double-check all connections and ensure no tools or debris are left in the engine bay. Reconnect the battery.

Important Considerations:

- **Wiring Pin-out:** Some users have reported that the wiring for the choke and idle cut-off on aftermarket carburetors may be incorrectly pinned in the electrical connector. It is crucial to compare the wiring configuration of the new carburetor's connector with your old carburetor's connector. If discrepancies are found, the pins can often be re-arranged by carefully releasing them from the back of the connector shell.
- **Fuel System Cleanliness:** Impurities in the fuel system can cause clogging in the new carburetor. It is highly recommended to clean the automobile oil circuit and replace the air filter before installing the new carburetor.
- **Initial Adjustments:** After installation, initial adjustments for idle mixture, idle speed, and high idle speed may be necessary for optimal engine performance. Refer to your vehicle's service manual for specific tuning procedures.

Your browser does not support the video tag.

Video: Overview of the maXpeedingrods TOY-505 Carburetor, showing various angles and components. This video can assist in identifying parts during installation.

7. Operating Principles

The carburetor is a mechanical device that mixes air and fuel in the correct ratio for combustion in an internal combustion engine. The TOY-505 features an automatic choke, which assists in starting a cold engine by providing a richer fuel mixture. Once the engine warms up, the choke automatically disengages.

- **Fuel Delivery:** Regulates the flow of fuel into the engine's intake manifold.
- **Airflow Control:** Manages the amount of air entering the engine.
- **Mixture Control:** Adjusts the air-fuel ratio for various engine speeds and loads.
- **Automatic Choke:** Provides an enriched air-fuel mixture for easier cold starts.

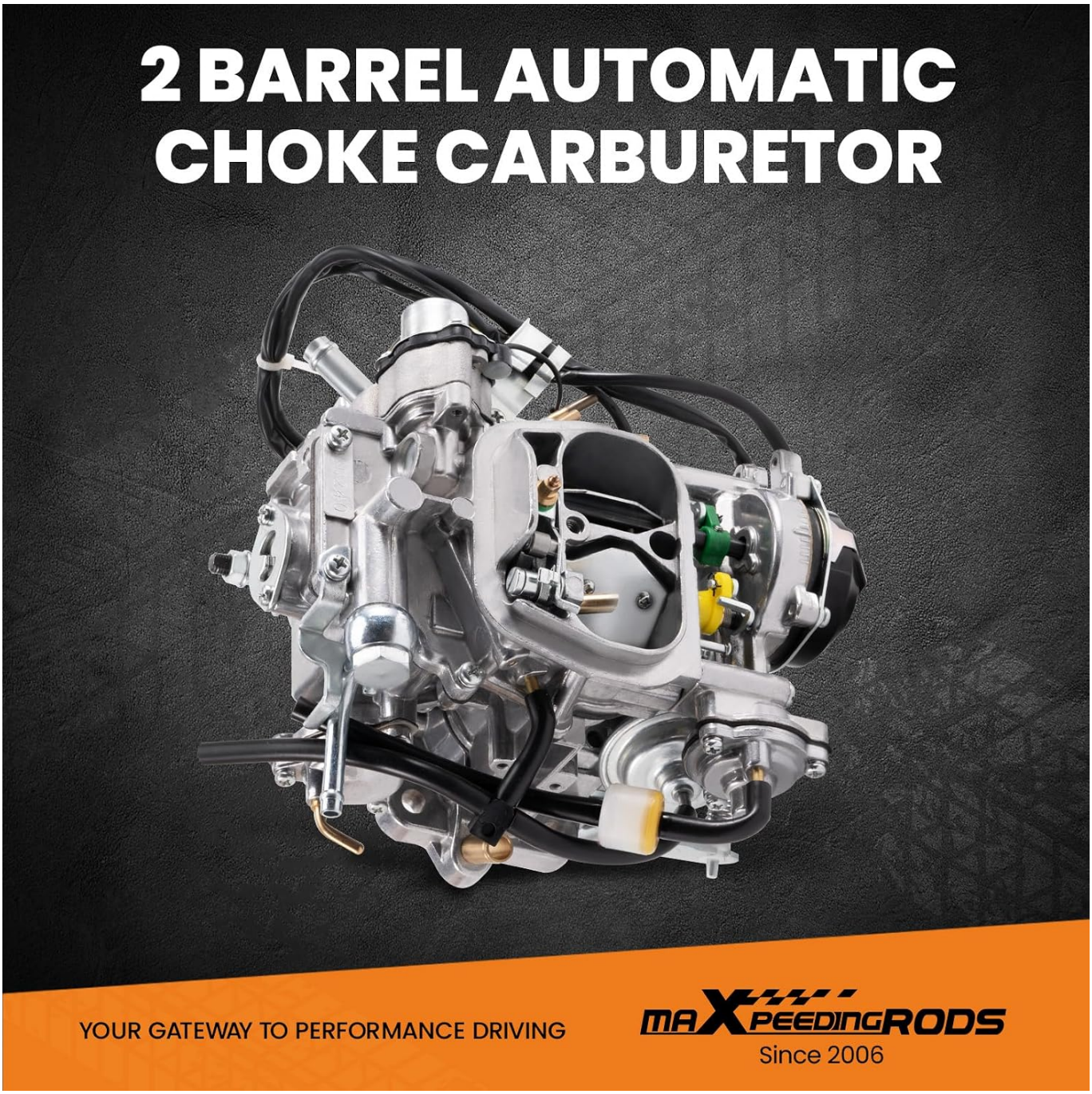


Image: The 2-barrel automatic choke carburetor, illustrating its design for efficient fuel-air mixture.



Image: Visual representation of the carburetor's performance characteristics, including low fuel consumption, stable idle speed, fast acceleration, and quick starting capability.

8. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your carburetor:

- **Air Filter:** Regularly inspect and replace the air filter to prevent dirt and debris from entering the carburetor.
- **Fuel Filter:** Ensure the fuel filter is clean and replace it as part of routine maintenance to prevent fuel system contamination.
- **Vacuum Lines:** Check all vacuum lines for cracks, leaks, or disconnections. Repair or replace as needed.
- **Linkages:** Inspect throttle and choke linkages for smooth operation and proper adjustment. Lubricate if necessary.
- **Cleaning:** If performance issues arise due to clogging, specialized carburetor cleaner can be used. Always follow the cleaner manufacturer's instructions and ensure proper ventilation.

9. Troubleshooting

If you experience issues after installation, consider the following common problems and solutions:

Symptom	Possible Cause	Solution
Rough Idle / Stalling	Incorrect idle speed/mixture, vacuum leak, clogged fuel passages, incorrect choke adjustment.	Adjust idle speed and mixture. Check vacuum lines. Clean carburetor passages. Verify choke operation.
Poor Acceleration / Hesitation	Lean fuel mixture, clogged accelerator pump, restricted fuel flow.	Adjust fuel mixture. Inspect and clean accelerator pump. Check fuel filter and lines.
Excessive Fuel Consumption / Black Smoke	Rich fuel mixture, stuck choke, high float level.	Adjust fuel mixture. Check choke for proper operation. Inspect float level.
Hard Starting (Cold)	Choke not engaging, lean cold start mixture, electrical connection issues.	Check automatic choke mechanism and electrical connection. Adjust cold start settings.
Wiring Issues (Choke/Idle Cut-off)	Incorrect pin-out in the electrical connector.	Compare wiring with original carburetor. Carefully re-pin the connector if necessary (refer to Section 6).

For detailed diagnostic procedures, consult your vehicle's factory service manual.

10. Warranty and Support

maXpeedingrods is committed to providing quality products and superior service. For any questions regarding installation, operation, or troubleshooting, please contact maXpeedingrods customer support. Refer to your purchase documentation for specific warranty terms and conditions.
The maXpeedingrods brand has been researching and producing high-performance auto parts since 2006, serving a global community of enthusiasts.

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