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› [Waverspeed](#) /

› Waverspeed 34PICT-3 Carburetor Instruction Manual for VW Beetle Super Beetle (1971-1979)

Waverspeed S89

Waverspeed 34PICT-3 Carburetor Instruction Manual

For VW Beetle & Super Beetle (1971-1979) with 1600cc Dual-Port Engines

[Introduction](#) [Compatibility](#) [Safety](#) [Installation](#) [Operation](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#)

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your Waverspeed 34PICT-3 Carburetor. This carburetor is designed as a replacement for specific Volkswagen Beetle and Super Beetle models. Please read this manual thoroughly before attempting any installation or adjustments to ensure proper function and safety.



Image 1.1: Front view of the Waverspeed 34PICT-3 Carburetor. This image shows the overall assembly of the carburetor, including the main body, throttle linkage, and choke mechanism.

2. COMPATIBILITY

This Waverspeed 34PICT-3 Carburetor is specifically designed for the following vehicle applications:

- **Vehicle Type:** VW Beetle, VW Super Beetle
- **Model Years:** 1971-1979
- **Engine Type:** Type 1 Air Cooled 1600cc Dual-Port Engine
- **OEM Part Number Cross-Reference:** 113129031K, 98-1289-B

Important: This carburetor is designed for dual-port manifolds only. It is not compatible with single-port manifolds. Verify your engine's manifold type before installation.

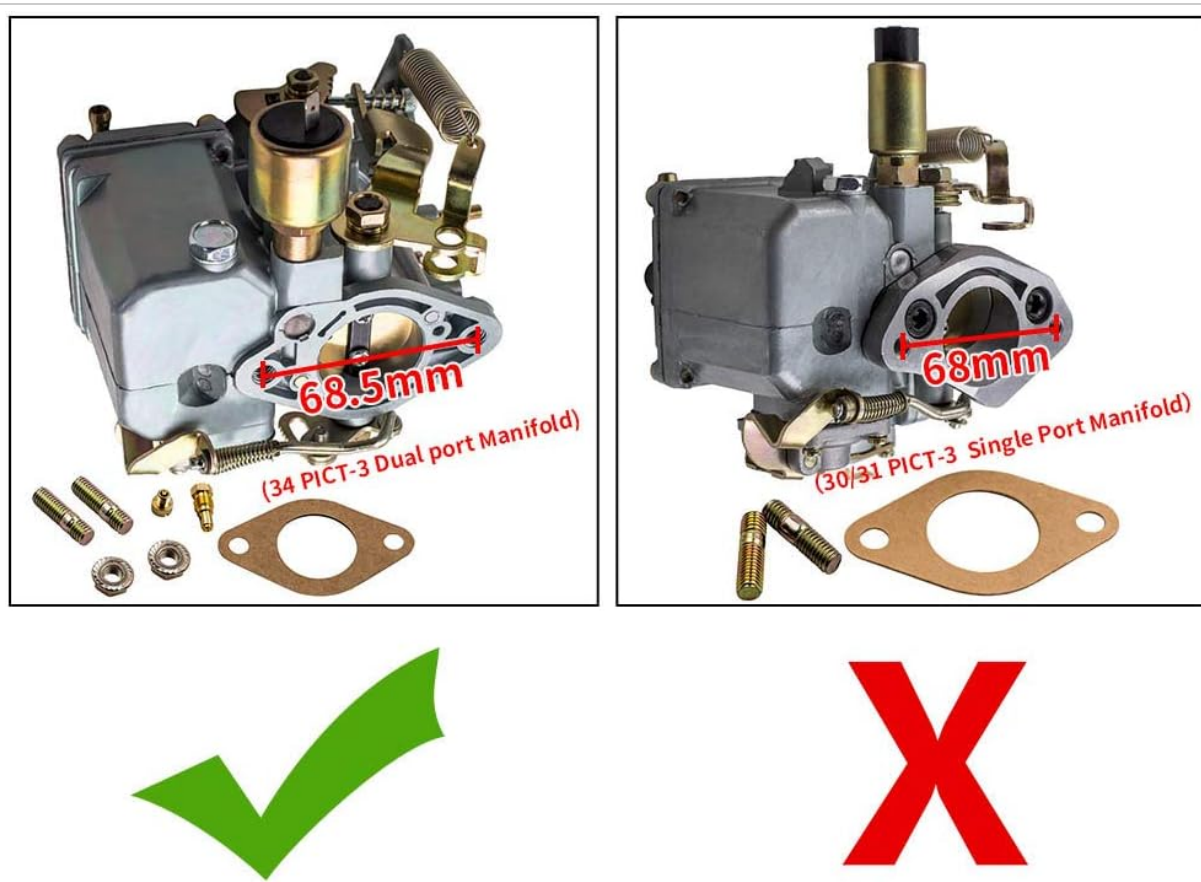


Image 2.1: Manifold compatibility illustration. The image on the left shows the correct fit for a 34 PICT-3 Dual Port Manifold (68.5mm spacing), indicated by a green checkmark. The image on the right shows an incorrect fit for a 30/31 PICT-3 Single Port Manifold (68mm spacing), indicated by a red 'X'. Ensure your manifold matches the dual-port configuration.

3. SAFETY INFORMATION

Always observe the following safety precautions when working on your vehicle's fuel system:

- Ensure the engine is cool and the vehicle is turned off before beginning any work.
- Disconnect the battery's negative terminal to prevent accidental starting or electrical shorts.
- Work in a well-ventilated area to avoid inhaling fuel fumes.
- Have a fire extinguisher readily available.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Fuel is highly flammable. Avoid open flames, sparks, or smoking near the work area.
- Properly dispose of any spilled fuel or contaminated materials.

4. INSTALLATION

Professional installation is recommended for this component. If you choose to install it yourself, follow these general steps. Refer to a service manual for your specific vehicle model for detailed procedures and torque specifications.

4.1. Preparation

1. Park the vehicle on a level surface and engage the parking brake.
2. Allow the engine to cool completely.
3. Disconnect the negative terminal of the battery.
4. Relieve fuel system pressure if applicable (consult vehicle service manual).
5. Place a drip pan under the carburetor to catch any spilled fuel.

4.2. Removal of Old Carburetor

1. Carefully disconnect the fuel line from the old carburetor. Plug the line to prevent fuel leakage.

2. Disconnect all vacuum lines, electrical connections (e.g., automatic choke), and throttle linkage from the old carburetor. Label them for easy re-connection.
3. Unbolt the old carburetor from the intake manifold. Remove the carburetor and the old gasket.
4. Clean the manifold mounting surface thoroughly, ensuring it is free of old gasket material and debris.

4.3. Installation of New Carburetor

1. Place a new carburetor base gasket onto the intake manifold. Ensure it is correctly oriented.
2. Carefully position the new Waverspeed 34PICT-3 Carburetor onto the manifold studs.
3. Install the mounting nuts and tighten them evenly in a criss-cross pattern to the manufacturer's specified torque *Do not overtighten*.
4. Reconnect the fuel line, ensuring a secure, leak-free connection.
5. Reconnect all vacuum lines, electrical connections, and the throttle linkage to their respective positions. Double-check all connections.

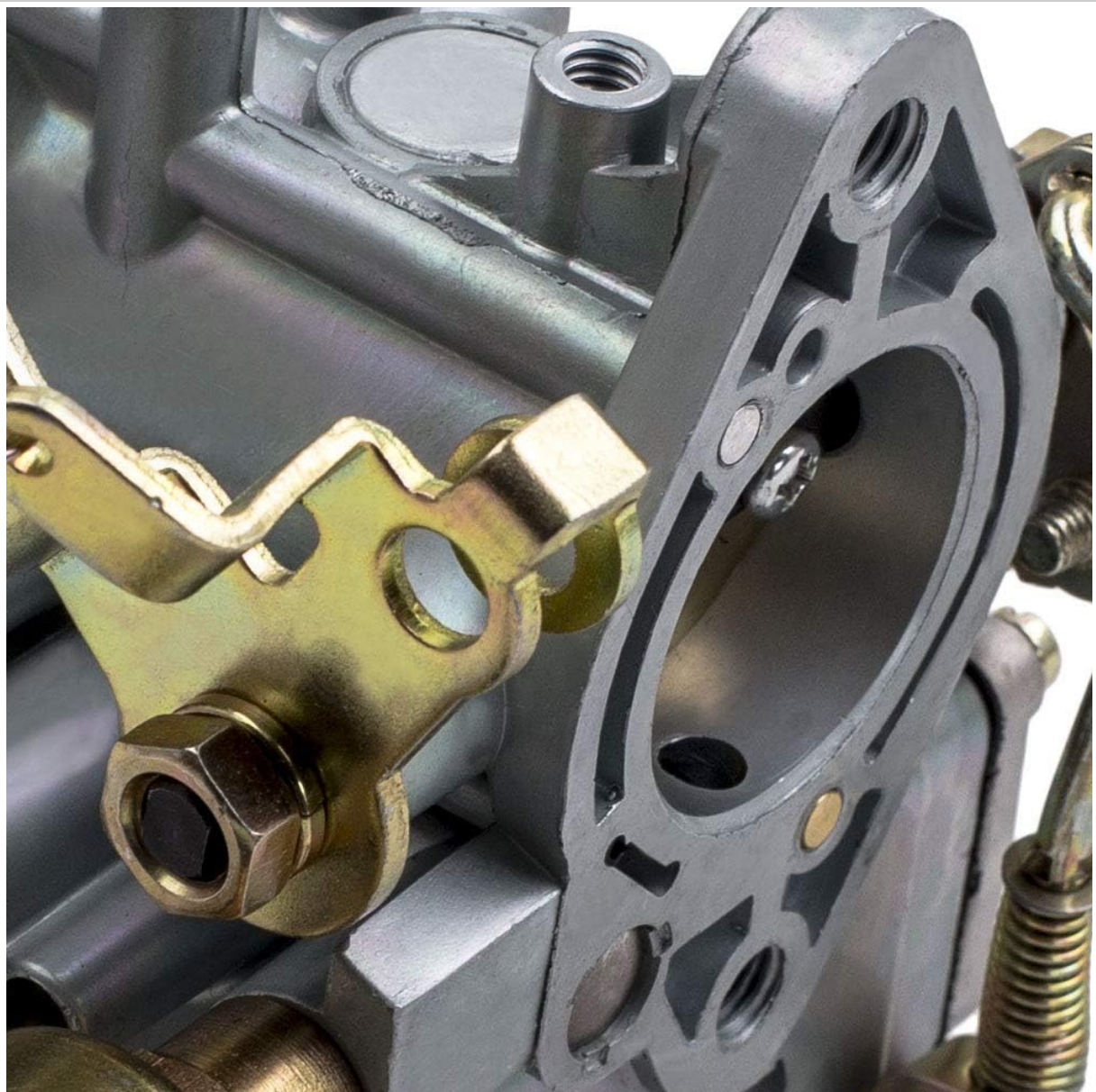


Image 4.1: Close-up view of the throttle linkage on the carburetor. This shows the connection point for the accelerator cable.

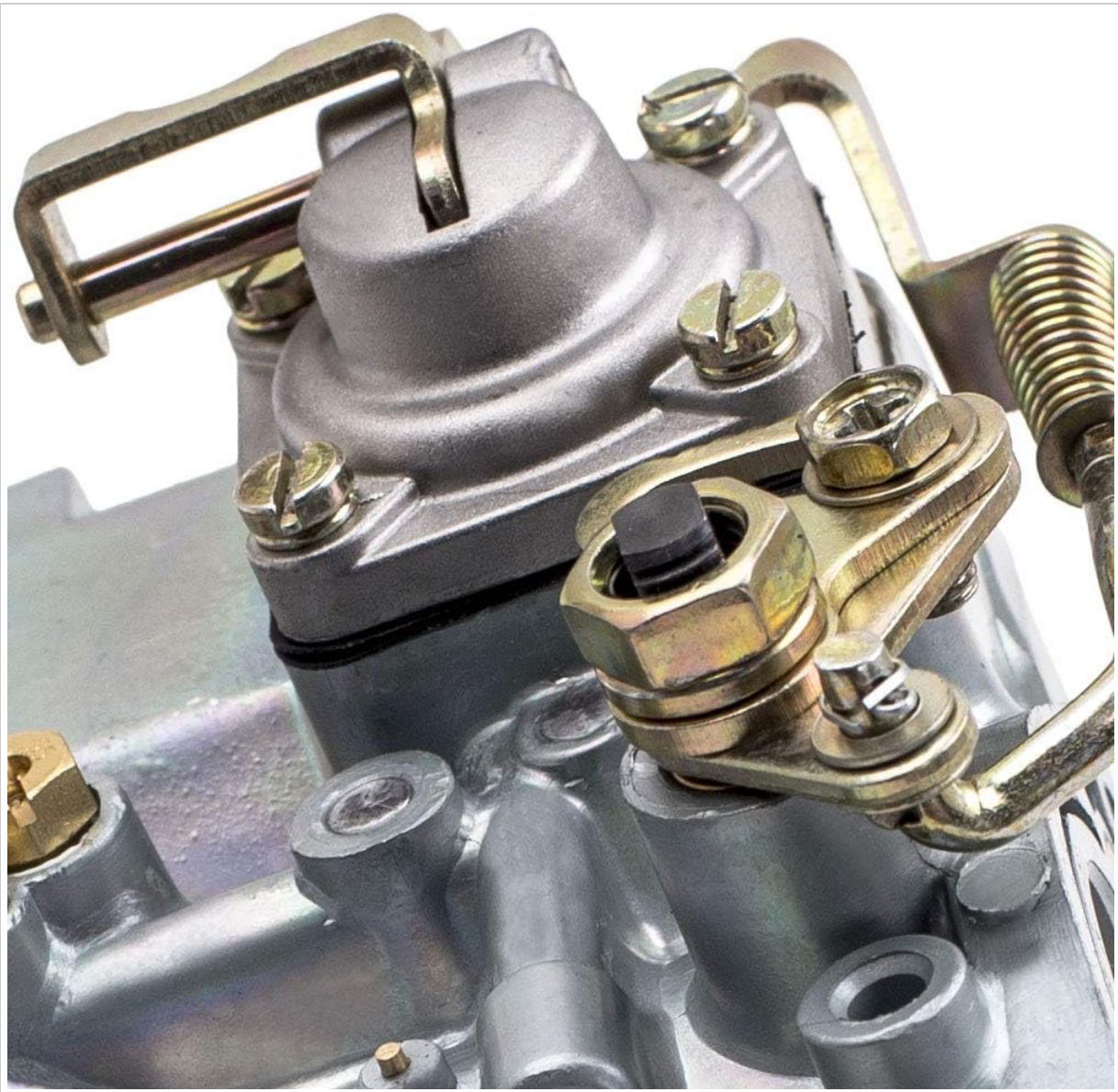


Image 4.2: Close-up view of the automatic choke mechanism. Ensure electrical connections are properly made to this component if your vehicle uses an automatic choke.

5. OPERATION AND INITIAL ADJUSTMENT

5.1. Initial Start-Up

1. Reconnect the battery's negative terminal.
2. Before starting, pump the accelerator pedal a few times to prime the carburetor with fuel.
3. Start the engine. It may take a few cranks for fuel to reach the carburetor.
4. Check for any fuel leaks around the carburetor and fuel lines. Address any leaks immediately.

5.2. Basic Adjustments

The carburetor typically comes pre-adjusted from the factory, but fine-tuning may be required for optimal performance in your specific vehicle and climate. Common adjustments include:

- **Idle Speed Screw:** Adjusts the engine's idle RPM.
- **Mixture Screw:** Adjusts the air-fuel ratio at idle. Turning it clockwise typically leans the mixture, counter-clockwise enriches it.
- **Choke Adjustment:** If equipped with an automatic choke, ensure it opens and closes correctly as the engine warms up.

Note: Proper carburetor tuning often requires specialized tools and knowledge. If you are unfamiliar with these procedures, it is highly recommended to consult a qualified mechanic.

6. MAINTENANCE

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

- **Air Filter:** Regularly inspect and replace the air filter according to your vehicle's service schedule. A clogged air filter can negatively impact carburetor performance.
- **Fuel Filter:** Ensure your vehicle has a clean, functional fuel filter to prevent contaminants from reaching the carburetor.
- **Linkage Inspection:** Periodically check all linkages for free movement, wear, or binding. Lubricate as necessary.
- **Vacuum Lines:** Inspect all vacuum lines connected to the carburetor for cracks, leaks, or disconnections. Replace any damaged lines.
- **Cleaning:** If performance issues arise, a professional carburetor cleaning may be necessary. Avoid using harsh chemicals or abrasive tools.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For complex problems, consult a qualified automotive technician.

Symptom	Possible Cause	Solution
Engine cranks but won't start	No fuel, clogged fuel filter, incorrect choke setting, vacuum leak	Check fuel supply, replace fuel filter, adjust choke, inspect vacuum lines
Rough idle or stalling	Incorrect idle speed/mixture, vacuum leak, dirty jets	Adjust idle/mixture screws, check vacuum lines, clean carburetor jets
Poor acceleration or hesitation	Accelerator pump issue, lean mixture, clogged fuel filter	Inspect accelerator pump, adjust mixture, replace fuel filter
Excessive fuel consumption	Rich mixture, stuck float, leaking fuel lines	Adjust mixture, inspect float, check for fuel leaks

8. SPECIFICATIONS

- **Brand:** Waverspeed
- **Model Number:** S89
- **Manufacturer Part Number:** S89
- **Compatible Vehicle Type:** Car (VW Beetle, Super Beetle 1971-1979 with 1600cc Dual-Port Engine)
- **Carburetor Type:** 34PICT-3

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Waverspeed 34PICT-3 Carburetor, please refer to the documentation provided with your purchase or contact Waverspeed customer service directly. Keep your purchase receipt as proof of purchase.