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> GOOFIT PZ27 27mm Carburetor Instruction Manual (Model N090-145)

## GOOFIT N090-145

# GOOFIT PZ27 27mm Carburetor Instruction Manual

Brand: GOOFIT | Model: N090-145

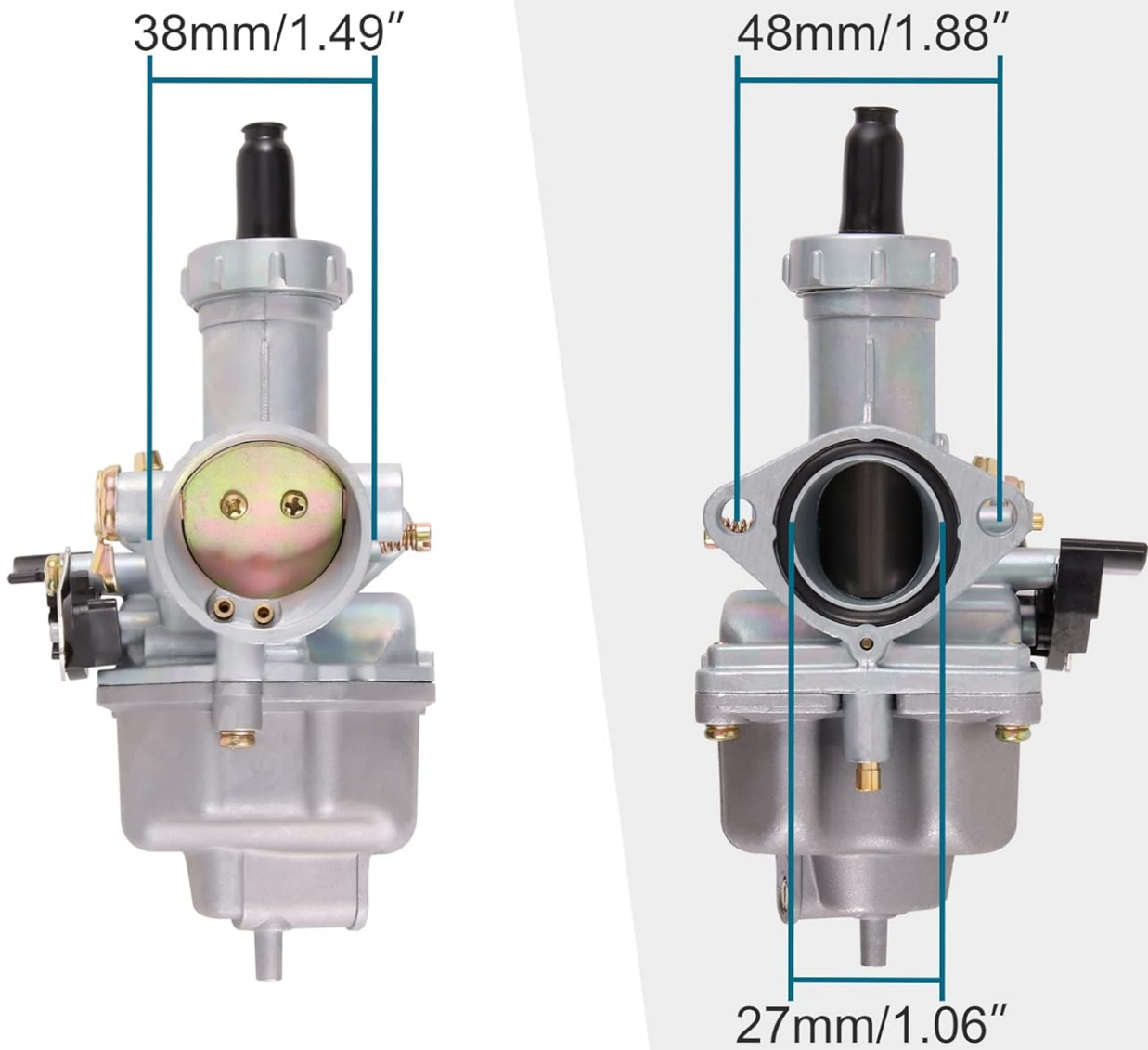
## 1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of your GOOFIT PZ27 27mm Carburetor with Hand Choke. Designed for optimal performance, this carburetor ensures efficient fuel delivery for compatible engines.

**Compatibility:** This carburetor is a replacement for various 100cc, 125cc, 175cc, and 200cc ATV and Dirt Bike models, including CB125, XL125S, TRX250, TRX250EX Recon, GY6 150cc ATV QUAD Go-Kart Buggy, Taotao, Buyang, Coolsort, Kazuma, and SunL Roketa. It is not compatible with the 2014 CTX 700.

## 2. PRODUCT FEATURES

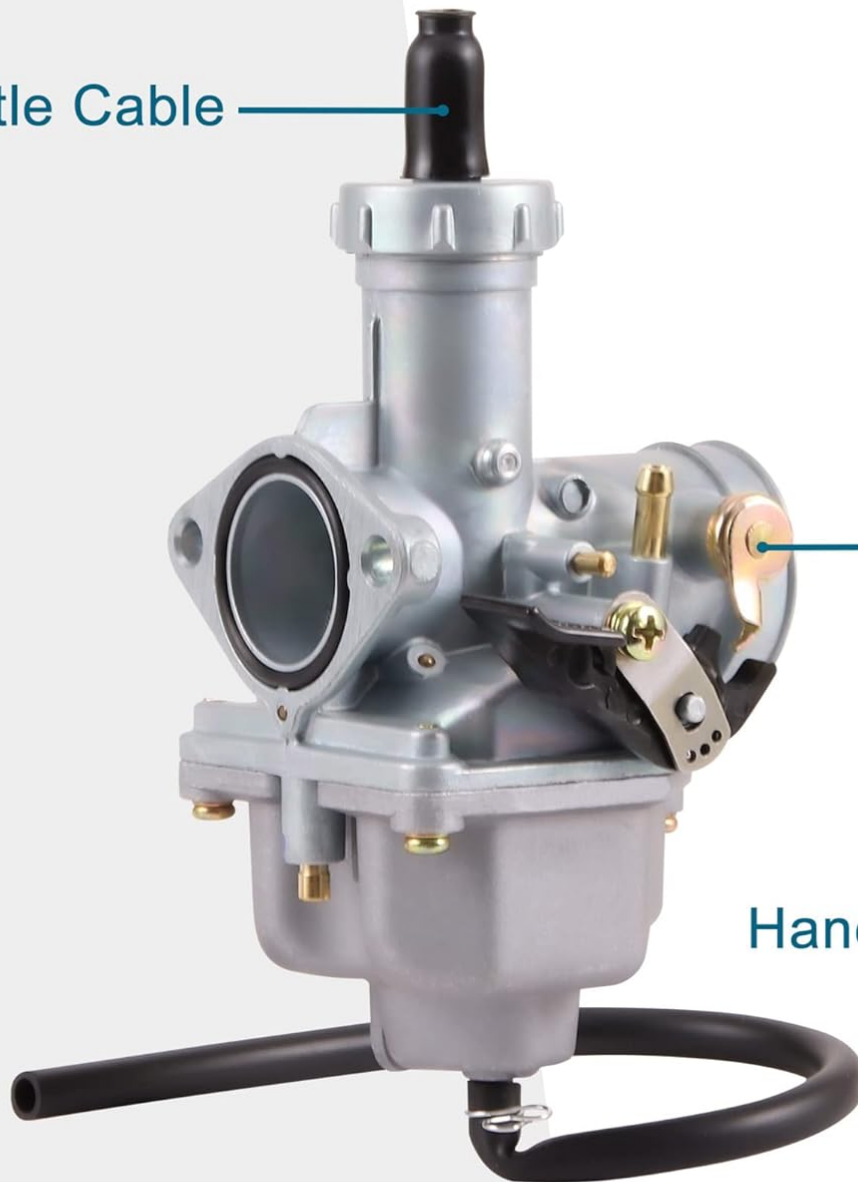
- **Dimensions:** Manifold intake diameter: 27mm (1.06"), air intake diameter: 35mm (1.37"), air intake outside diameter: 38mm (1.49"), bolt hole spacing: 48mm (1.88").
- **Performance:** Engineered for energy saving, fuel efficiency, stable idle speed, and smooth acceleration.
- **Installation:** Designed for accurate alignment and direct installation without requiring complex debugging.
- **Durability:** Constructed from total aluminum for robust and reliable operation.



Intake inside diameter: 27mm/1.06".  
Bolt hole spacing: 48mm/1.88.  
Air filter mount outside diameter: 38mm/1.49.  
Please Check The Product Size Before Buying.

*Image 2.1: Key dimensions of the GOOFIT PZ27 Carburetor, showing intake and bolt hole spacing.*

Throttle Cable



Hand Choke

Total Aluminium,  
Hand Choke Version,  
Not for Cable Choke Version.

Image 2.2: View of the carburetor highlighting the hand choke mechanism and throttle cable connection. This model features a hand choke and is not for cable choke versions.

### 3. SPECIFICATIONS

<b>Brand</b>	GOOFIT
<b>Model Number</b>	N090-145
<b>Manifold Intake Diameter</b>	27mm (1.06")
<b>Air Intake Diameter</b>	35mm (1.37")
<b>Air Intake Outside Diameter</b>	38mm (1.49")

<b>Bolt Hole Spacing</b>	48mm (1.88")
<b>Item Weight</b>	50 Grams
<b>Vehicle Service Type</b>	ATV, Bike
<b>Recommended Uses</b>	Go Kart, ATV

## 4. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your carburetor. This carburetor is designed for direct installation, requiring accurate alignment. If you are unsure about any steps, it is recommended to consult a qualified mechanic.

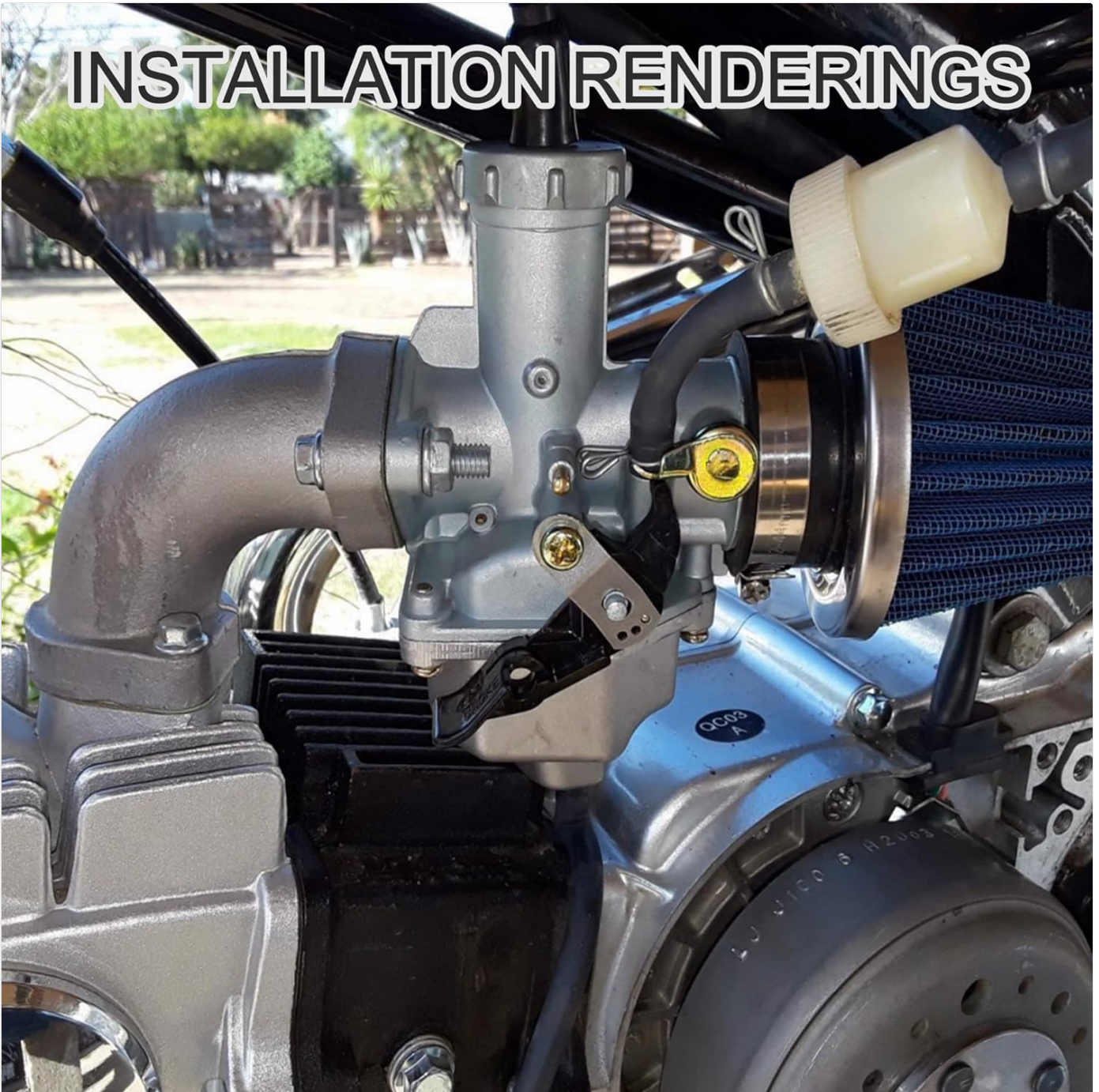
### 4.1 Pre-Installation Check

- Ensure the engine is cool and the fuel supply is turned off.
- Verify that the new carburetor's dimensions match your engine's requirements (refer to Section 3: Specifications).
- Gather necessary tools, including wrenches, screwdrivers, and a clean cloth.

### 4.2 Installation Steps

1. Carefully remove the old carburetor, disconnecting fuel lines, throttle cable, and air filter.
2. Clean the intake manifold and surrounding area to ensure no debris interferes with the new installation.
3. Install the new GOOFIT PZ27 carburetor, ensuring proper alignment with the intake manifold. Secure it with appropriate bolts and gaskets.
4. Connect the fuel line, ensuring a secure fit to prevent leaks.
5. Attach the throttle cable and adjust for proper tension and smooth operation.
6. Reinstall the air filter.
7. Turn on the fuel supply and check for any leaks.

# INSTALLATION RENDERINGS



*Image 4.1: An example of the GooFIT PZ27 Carburetor installed on an engine, demonstrating typical mounting.*



Replacement for 100cc 125cc 175cc 200cc ATV Dirt Bike  
CB125 XL125S TRX250 TRX 250EX.

Image 4.2: The GOOFIT PZ27 Carburetor shown with included gaskets and examples of compatible ATV and dirt bike models.

## 5. OPERATING INSTRUCTIONS

The GOOFIT PZ27 Carburetor is designed to provide stable idle speed and smooth acceleration. Familiarize yourself with its operation for optimal engine performance.

### 5.1 Starting the Engine

- **Cold Start:** Engage the hand choke fully. Start the engine. Once the engine begins to run smoothly, gradually disengage the choke.
- **Warm Start:** The choke may not be necessary for a warm engine. If needed, use partial choke briefly.

### 5.2 Adjustments

- **Idle Speed:** The idle speed screw can be adjusted to achieve the desired engine idle. Turn clockwise to increase idle, counter-clockwise to decrease.
- **Air/Fuel Mixture:** The air/fuel mixture screw controls the richness of the mixture. Adjust in small increments (1/4 turn) and test engine response. A proper mixture ensures efficient combustion and prevents fouling.



Energy Saving And Fuel Saving, Stable Idle Speed, Smooth Acceleration. Very durable, Good working condition and Easy to install.

*Image 5.1: Front view of the GOOFIT PZ27 Carburetor, illustrating its design for stable idle and smooth acceleration.*

## 6. MAINTENANCE

Regular maintenance of your GOOFIT PZ27 Carburetor will ensure its longevity and consistent performance.

### 6.1 Routine Checks

- **Fuel Lines:** Inspect fuel lines for cracks, leaks, or blockages. Replace as needed.
- **Air Filter:** Regularly clean or replace the air filter to prevent dirt and debris from entering the carburetor.
- **Connections:** Ensure all connections, including the intake manifold and throttle cable, are secure.

### 6.2 Cleaning the Carburetor

If performance issues arise, a thorough cleaning of the carburetor may be necessary.

1. Remove the carburetor from the engine (refer to installation steps in reverse).
2. Disassemble the float bowl and carefully remove jets and other small components.
3. Use a carburetor cleaner to spray all passages, jets, and the float bowl. Ensure all orifices are clear.

4. Inspect the float and needle valve for wear or damage. Replace if necessary.
5. Reassemble the carburetor, ensuring all components are correctly seated.
6. Reinstall the carburetor on the engine.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your carburetor.

Problem	Possible Cause	Solution
Engine won't start	No fuel, clogged fuel filter, incorrect choke setting, fouled spark plug	Check fuel level, inspect/replace fuel filter, adjust choke, check/replace spark plug
Rough idle	Incorrect idle speed adjustment, dirty carburetor, air leak	Adjust idle screw, clean carburetor, check for loose connections/gaskets
Lack of power/poor acceleration	Clogged jets, incorrect air/fuel mixture, restricted air filter	Clean carburetor jets, adjust air/fuel mixture, clean/replace air filter
Fuel leaks	Loose fuel line connections, damaged float bowl gasket, faulty needle valve	Tighten connections, replace gasket, inspect/replace needle valve

## 8. PRODUCT OVERVIEW VIDEO

Watch this video for a detailed visual overview of the GOOFIT PZ27 27mm Carburetor, showcasing its design and features.

Your browser does not support the video tag.

*Video 8.1: A 52-second video demonstrating the GOOFIT PZ27 Carburetor from various angles, highlighting its construction and components.*

## 9. WARRANTY AND SUPPORT

GOOFIT is committed to providing quality products and customer satisfaction. If you encounter any issues or have questions regarding your PZ27 Carburetor, please refer to the following:

### 9.1 Warranty Information

While specific warranty terms may vary, GOOFIT stands by its products. For detailed warranty information, please refer to the product packaging or contact GOOFIT customer service directly. We are dedicated to ensuring a positive shopping experience and are available to assist our customers.

### 9.2 Customer Support

For technical assistance, troubleshooting guidance, or any other inquiries, please reach out to GOOFIT customer support through the platform where the product was purchased or visit the official GOOFIT store for contact options. Providing your product model number (N090-145) and a detailed description of your issue will help expedite support.

