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AlveyTech P33-4132

AlveyTech 90cc Carburetor Instruction Manual

For Baja Dirt Runner 90 (DR90) Dirt Bike

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your AlveyTech 90cc Carburetor, designed for the Baja Dirt Runner 90 (DR90) dirt bike. Please read these instructions thoroughly before proceeding with any installation or maintenance to ensure safe and effective use.

2. Product Overview

The AlveyTech 90cc Carburetor is a replacement component for the Baja Dirt Runner 90 (DR90) dirt bike. It features a 19 mm diameter intake and a manual choke located on the right side. This carburetor is suitable for 4-stroke engines typically ranging from 50cc to 90cc.



Figure 2.1: Front-side view of the AlveyTech 90cc Carburetor, showing the main body and fuel line connection.



Figure 2.2: Angled view of the carburetor, highlighting the intake and various adjustment screws.

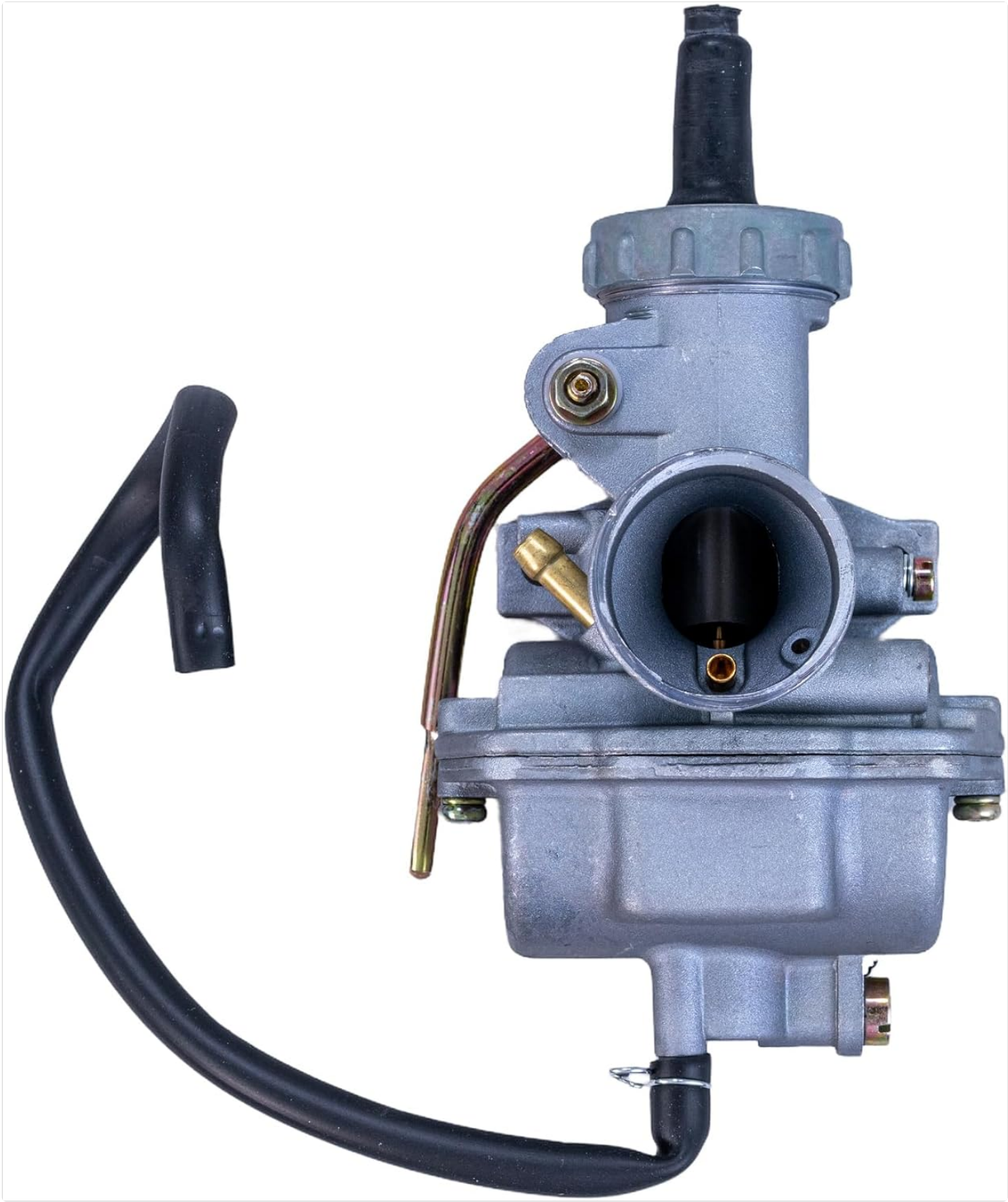


Figure 2.3: Side view of the carburetor, clearly showing the manual choke lever on the right side.

3. Specifications

Feature	Specification
Engine Size Compatibility	90 cc (typically 50cc-90cc)
Engine Intake Inner Diameter	20 mm

Feature	Specification
Air Intake Outer Diameter	34 mm
Air Intake Inner Diameter	29 mm
Overall Depth	7.2 cm (2.8 inches)
Overall Width	11 cm (4.3 inches)
Overall Height	14 cm (5.5 inches)
Center to Center Mounting Hole Distance	48 mm
Mounting Holes Diameter	6 mm
Choke Type	Manual
Choke Location	Right
Fuel Line Inner Diameter	4 mm
Fuel Line Outer Diameter	6 mm
Fuel Shutoff	Yes
Manufacturer Part Number	P33-4132
UPC	636643386098

4. Setup and Installation

Installation of a carburetor requires mechanical aptitude. If you are unsure about any steps, it is recommended to seek assistance from a qualified mechanic.

4.1. Safety Precautions

- Ensure the engine is cool before beginning work.
- Disconnect the spark plug wire to prevent accidental starting.
- Work in a well-ventilated area.
- Have a fire extinguisher nearby when working with fuel.
- Wear appropriate personal protective equipment, including gloves and eye protection.

4.2. Installation Steps

1. **Drain Fuel:** Turn off the fuel supply and drain any fuel from the old carburetor and fuel line into an approved container.
2. **Remove Air Filter:** Detach the air filter assembly to gain access to the carburetor.
3. **Disconnect Fuel Line:** Carefully disconnect the fuel line from the old carburetor. Be prepared for residual fuel leakage.
4. **Disconnect Throttle Cable:** Loosen the throttle cable retainer and carefully remove the throttle cable from the carburetor slide.
5. **Remove Old Carburetor:** Unbolt the old carburetor from the engine intake manifold. Note the orientation of any gaskets.
6. **Install New Carburetor:** Place new gaskets (if required and not pre-installed) and mount the AlveyTech 90cc

Carburetor to the engine intake manifold. Ensure a tight, leak-free seal.

7. **Connect Throttle Cable:** Reattach the throttle cable to the new carburetor slide and adjust for proper tension and free movement.
8. **Connect Fuel Line:** Securely attach the fuel line to the carburetor's fuel inlet. Ensure the fuel shutoff valve is accessible.
9. **Reinstall Air Filter:** Reattach the air filter assembly.
10. **Refill Fuel:** Turn on the fuel supply and check for any leaks.



Figure 4.1: The carburetor with its integrated fuel line, ready for connection to the fuel tank.

5. Operating Instructions

5.1. Choke Operation

The carburetor features a manual choke located on the right side. The choke enriches the fuel-air mixture for easier cold

starting.

- **Cold Start:** Move the choke lever to the 'ON' (closed) position.
- **Warm-up:** Once the engine starts, gradually move the choke lever to the 'OFF' (open) position as the engine warms up. Operating with the choke on for too long can lead to rough running and fouled spark plugs.
- **Warm Engine Start:** The choke is typically not required for starting a warm engine.

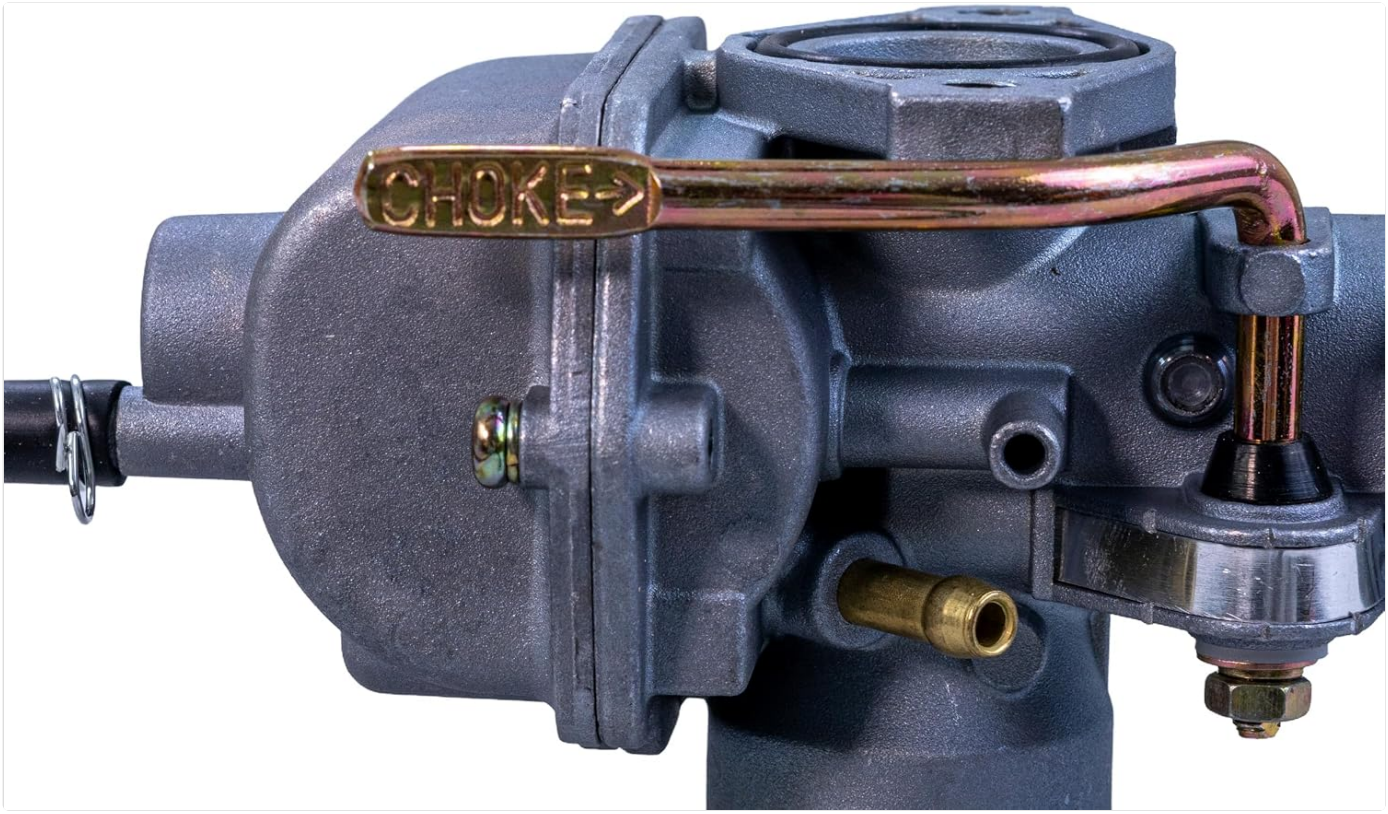


Figure 5.1: Close-up view of the manual choke lever, indicating its position for operation.

5.2. Idle Adjustment

The idle speed screw (typically a larger screw with a spring) controls the engine's idle RPM. Turn clockwise to increase idle speed, counter-clockwise to decrease. Adjust only when the engine is warm.

5.3. Air/Fuel Mixture Adjustment

The air/fuel mixture screw (smaller screw, often recessed) fine-tunes the fuel mixture at idle. Adjusting this screw can impact engine performance and fuel efficiency. Small adjustments (quarter turns) are recommended, followed by testing. Consult a service manual for your specific dirt bike model for optimal settings.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your carburetor.

- **Fuel Quality:** Always use fresh, clean fuel. Ethanol in gasoline can degrade carburetor components over time. Consider using ethanol-free fuel or a fuel stabilizer if the vehicle is stored for extended periods.
- **Fuel Filter:** Ensure your fuel system has a clean, functional fuel filter to prevent debris from entering the carburetor.
- **Air Filter:** A clean air filter is crucial for proper air-fuel mixture. Clean or replace the air filter regularly according to your dirt bike's service schedule.
- **Carburetor Cleaning:** If the carburetor becomes clogged or dirty, it may require cleaning. This typically involves disassembling the carburetor, cleaning jets and passages with carburetor cleaner, and replacing gaskets if necessary. This procedure should only be performed by individuals with appropriate mechanical experience.

7. Troubleshooting

This section addresses common issues related to carburetor function. For complex problems, consult a professional mechanic.

7.1. Engine Not Starting or Hard Starting

- **Check Fuel Supply:** Ensure there is fuel in the tank and the fuel shutoff valve is open.
- **Choke Position:** Verify the choke is in the correct position for starting (ON for cold, OFF for warm).
- **Spark Plug:** Inspect the spark plug for fouling or damage.
- **Fuel Flow:** Check for blockages in the fuel line or fuel filter.
- **Carburetor Clogging:** Internal passages or jets may be clogged, requiring cleaning.

7.2. Poor Engine Performance (Rough Idle, Stalling, Lack of Power)

- **Idle Adjustment:** Adjust the idle speed screw.
- **Air/Fuel Mixture:** Adjust the air/fuel mixture screw in small increments.
- **Air Filter:** A dirty air filter can restrict airflow. Clean or replace it.
- **Vacuum Leaks:** Check for leaks around the carburetor mounting gaskets or intake manifold.
- **Fuel Contamination:** Old or contaminated fuel can cause performance issues.

7.3. Fuel Leaks

- **Fuel Lines:** Inspect fuel lines for cracks or loose connections.
- **Float Bowl Gasket:** A damaged or improperly seated float bowl gasket can cause leaks.
- **Float Level:** An incorrect float level can cause fuel to overflow. This requires internal carburetor adjustment.

8. Warranty and Support

For information regarding warranty coverage or technical support for your AlveyTech 90cc Carburetor, please refer to the original purchase documentation or contact AlveyTech customer service directly. Ensure you have your product model number (P33-4132) and purchase details available when contacting support.
You can visit the AlveyTech store for more information:AlveyTech Store

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