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### MObyat MObyat

# MObyat Carburetor Mixture and Idle Adjustment Screw User Manual

Model: MObyat

## 1. Product Overview

The MObyat Carburetor Mixture and Idle Adjustment Screw is a precision-engineered brass component designed for fine-tuning the air-fuel mixture and idle speed of motorcycle carburetors. This screw plays a critical role in optimizing engine performance and fuel efficiency by allowing precise adjustments to the fuel delivery system.

**Key Features:**

- Material: High-quality Brass
- Weight: Approximately 0.05 kg (50 grams)
- Function: Adjusts air-fuel mixture and idle speed
- Compatibility: Suitable for various carburetors, including VM22 and YBR125 models.



*Image 1.1: The MObyat Carburetor Mixture and Idle Adjustment Screw, shown with its accompanying spring and two washers (one metal, one rubber). This image displays the complete set of components included with the screw.*

## 2. Components Included

Each package contains the following components:

- 1x Carburetor Mixture/Idle Adjustment Screw (Brass)
- 1x Compression Spring
- 1x Metal Washer
- 1x Rubber O-ring



*Image 2.1: A detailed view of the carburetor adjustment screw with the spring installed, illustrating the threaded section and the tapered tip.*

## 3. Setup and Installation

Proper installation of the carburetor adjustment screw is crucial for optimal engine performance. Always ensure the engine is cool before beginning any work on the carburetor.

1. **Identify the Location:** Locate the existing mixture or idle adjustment screw on your carburetor. This screw is typically found on the side or bottom of the carburetor body.
2. **Remove Old Screw:** Carefully unscrew and remove the old adjustment screw, spring, washer, and O-ring. Note the number of turns it took to remove the old screw if you plan to use it as a starting point for adjustment.
3. **Prepare New Screw:** Place the rubber O-ring onto the new screw, followed by the metal washer, and then the compression spring. Ensure they are seated correctly.
4. **Install New Screw:** Gently insert the new screw assembly into the carburetor's designated port. Turn the screw clockwise until it lightly seats. *Do not overtighten*, as this can damage the carburetor or the screw.
5. **Initial Adjustment:** For a starting point, turn the screw counter-clockwise 1.5 to 2.5 turns from the lightly seated position. This is a common initial setting, but fine-tuning will be required.

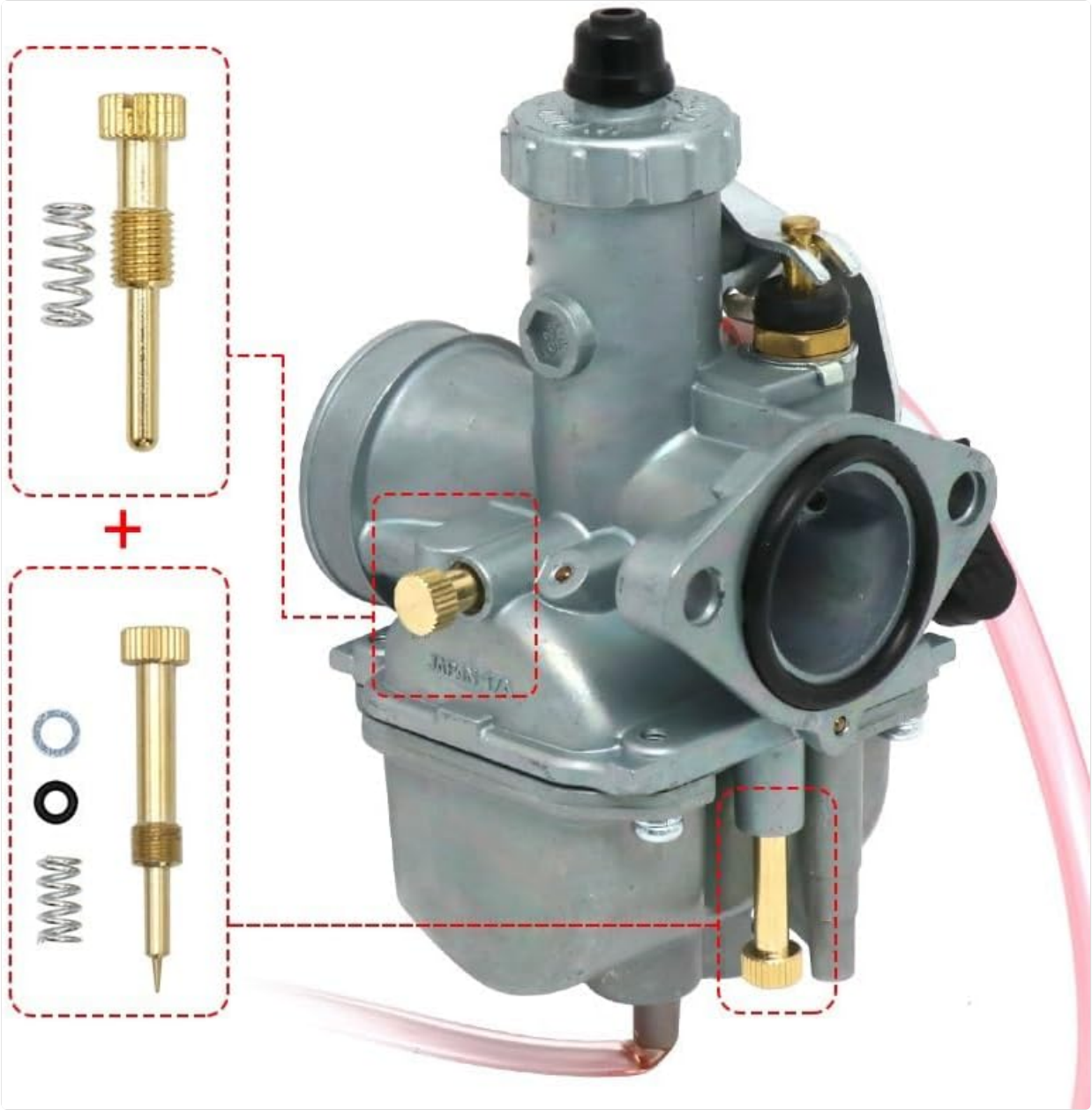


*Image 3.1: An illustrative diagram showing the typical locations for the mixture and idle adjustment screws on a carburetor. The red dashed lines indicate where these screws are installed.*

## 4. Operating and Adjustment

The carburetor adjustment screw allows you to fine-tune the air-fuel mixture and idle speed, directly impacting engine power and fuel consumption. Proper adjustment can enhance engine performance and reduce fuel usage.

1. **Warm Up Engine:** Start the engine and allow it to reach its normal operating temperature.
2. **Adjust Idle Speed (if applicable):** If your carburetor has a separate idle speed screw, adjust it first to achieve a stable idle.
3. **Adjust Mixture Screw:**
    - Slowly turn the mixture screw clockwise until the engine RPMs begin to drop or run rough. Note this position.
    - Slowly turn the mixture screw counter-clockwise until the engine RPMs begin to drop or run rough. Note this position.
    - Set the screw to the midpoint between these two positions, or slightly richer (more counter-clockwise) if the engine responds better.
    - The goal is to find the highest, smoothest idle.

4. **Re-adjust Idle Speed:** After adjusting the mixture, the idle speed may have changed. Re-adjust the main idle speed screw to your desired RPM.
5. **Test Ride:** Perform a test ride to confirm smooth acceleration and stable idle across various throttle positions. Further minor adjustments may be necessary.

*Note: Different carburetor models may have slightly different adjustment procedures. Consult your motorcycle's service manual for specific instructions.*

## 5. Maintenance

The MObyat Carburetor Adjustment Screw is designed for durability. However, periodic inspection and cleaning are recommended to ensure continued optimal performance.

- **Regular Inspection:** Periodically check the screw for signs of wear, corrosion, or damage. Ensure the O-ring is not cracked or hardened, as this can lead to air leaks.
- **Cleaning:** If the screw becomes dirty or clogged, carefully remove it from the carburetor. Clean it with carburetor cleaner and a soft brush. Ensure all passages are clear.
- **O-ring Replacement:** If the O-ring shows any signs of wear or damage, replace it immediately to maintain a proper seal and prevent air leaks that can affect engine performance.
- **Proper Storage:** If removing the screw for extended periods, store it in a clean, dry place to prevent corrosion.

## 6. Troubleshooting

If you experience issues after installing or adjusting the screw, consider the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| Engine runs rough or stalls at idle | Incorrect mixture screw setting; damaged O-ring; clogged screw passage. | Re-adjust mixture screw (see Section 4); inspect and replace O-ring; clean screw and carburetor passage. |
| Difficulty starting engine | Mixture too rich or too lean. | Adjust mixture screw in small increments until engine starts reliably. |
| Poor fuel economy | Mixture too rich. | Lean out the mixture by turning the screw clockwise in small increments. |
| Engine backfires or runs hot | Mixture too lean. | Enrich the mixture by turning the screw counter-clockwise in small increments. |

## 7. Specifications

Detailed specifications for the MObyat Carburetor Mixture and Idle Adjustment Screw:

- **Manufacturer:** MObyat
- **Brand:** MObyat
- **Model Number:** MObyat
- **Material:** Brass
- **Item Weight:** Approximately 0.05 kg (50 grams)
- **Fuel Type Compatibility:** Gasoline
- **Typical Dimensions (may vary by specific variant):**

- Overall Length: Approximately 32mm or 42mm (depending on variant)
- Thread Size: M7 or M6*0.5 (depending on variant)




*Image 7.1: Dimensional drawing of one variant of the adjustment screw, indicating an overall length of 32mm and an M7 thread size.*




*Image 7.2: Dimensional drawing of another variant of the adjustment screw, indicating an overall length of 42mm and an M6*0.5 thread size.*




*Image 7.3: Comparison of two different adjustment screws, indicating compatibility with VM22 and YBR125 carburetors.*

## 8. Warranty and Support

MObyat is committed to providing high-quality products. While specific warranty details are not provided in this manual, please refer to your purchase documentation or contact the seller directly for information regarding warranty coverage and support.

If you have any questions or require assistance with your MObyat Carburetor Mixture and Idle Adjustment Screw, please contact the seller or MObyat customer support. We are dedicated to assisting you with any inquiries before or after your purchase.

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