

## FCDCADWBA-F

# Carburetor Repair Kit User Manual

Model: FCDCADWBA-F | Brand: Generic

## INTRODUCTION

This manual provides detailed instructions for the installation, maintenance, and troubleshooting of your Carburetor Repair Kit. Designed for Mikuni BST33 carburetors, this kit is compatible with Aprilia Pegaso 650 and BMW F650 motorcycles. It includes all necessary components to restore your carburetor's optimal function, ensuring reliable performance for your motorcycle. Please read this manual thoroughly before beginning any repair work.

## KIT CONTENTS

The Carburetor Repair Kit includes the following components:

- Diaphragm
- Float
- Gaskets
- Needle Valve
- Various Jets (e.g., #138, #140, #142, #37.5, #40)
- Other small components for comprehensive repair



Image: Overview of the complete carburetor repair kit, showing all included components such as diaphragms, floats, gaskets, and various jets.

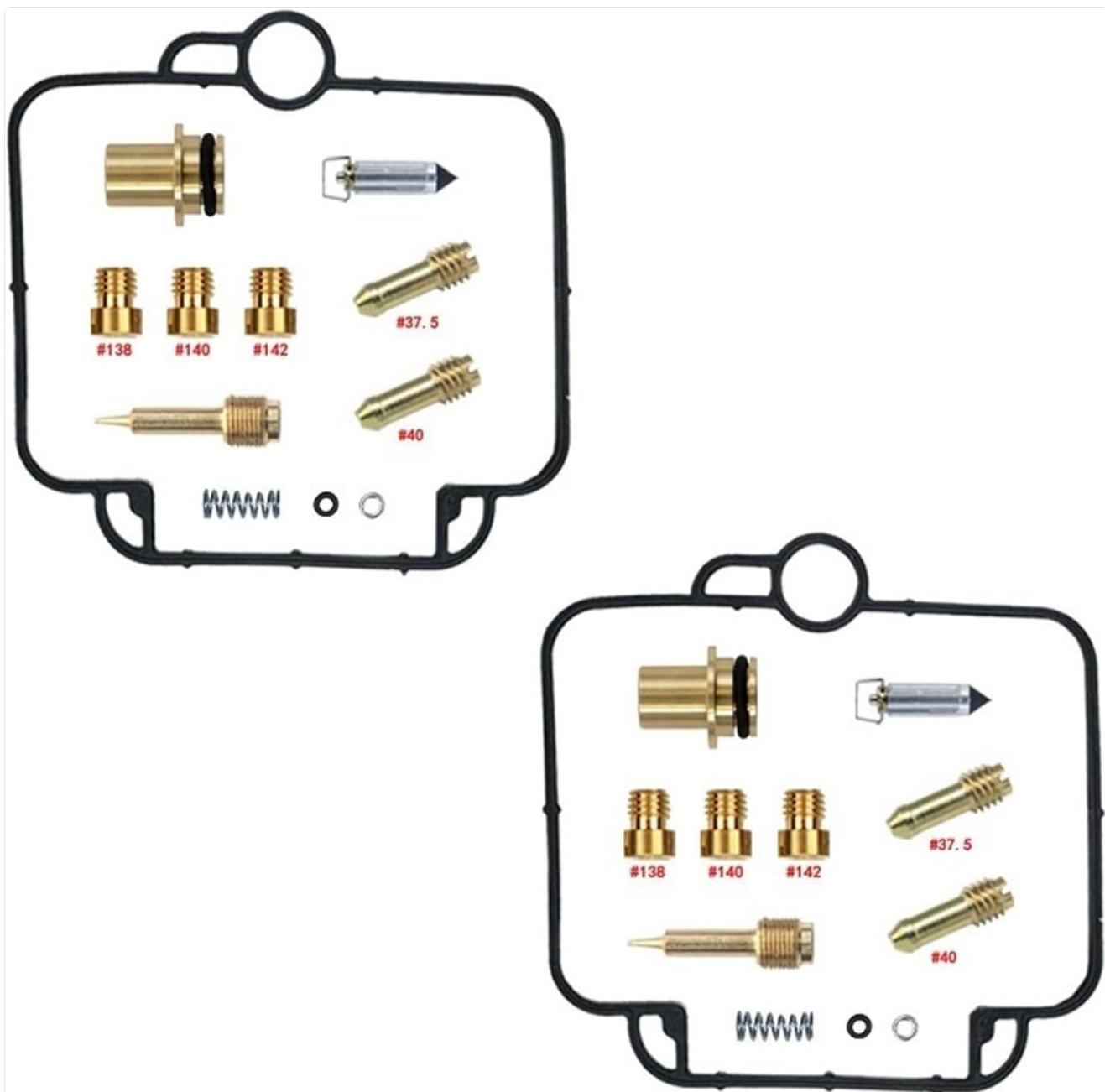


Image: A detailed view of the various jets and the main gasket included in the repair kit, highlighting their specific sizes and shapes.

## COMPATIBILITY

This carburetor repair kit is specifically designed for the Mikuni BST33 carburetor. It is fully compatible with the following motorcycle models:

- Aprilia Pegaso 650
- BMW F650

Ensure your motorcycle's carburetor is a Mikuni BST33 model before purchasing and installing this kit.

## SETUP AND INSTALLATION

## Safety Precautions

- Always work in a well-ventilated area.
- Ensure the motorcycle engine is cool before starting work.
- Disconnect the battery to prevent accidental starting.
- Wear appropriate personal protective equipment, including gloves and eye protection.
- Handle fuel with extreme care; it is highly flammable.

## Tools Required

- Screwdrivers (Phillips and Flathead)
- Wrenches/Sockets (various sizes)
- Pliers
- Carburetor cleaner
- Compressed air
- Shop rags

## Installation Steps

1. **Prepare the Motorcycle:** Ensure the motorcycle is on a stable stand. Turn off the fuel supply and disconnect the fuel line from the carburetor.
2. **Remove the Carburetor:** Carefully disconnect all hoses, cables, and electrical connections attached to the carburetor. Loosen the clamps securing the carburetor to the intake manifold and airbox, then remove the carburetor from the motorcycle.
3. **Disassemble the Carburetor:** Place the carburetor on a clean workbench. Remove the float bowl, top cover, and any other components as needed to access the internal parts. Note the position and orientation of all parts as you remove them.
4. **Clean the Carburetor:** Thoroughly clean all carburetor passages and components using carburetor cleaner and compressed air. Ensure all jets, passages, and air bleeds are free of debris and clogs.
5. **Replace Components:** Replace the old diaphragm, float, gaskets, needle valve, and any worn jets with the new components from the repair kit. Pay close attention to the correct jet sizes and their respective locations.
6. **Reassemble the Carburetor:** Reassemble the carburetor in reverse order of disassembly, ensuring all screws are tightened to specification and all components are correctly seated.
7. **Reinstall the Carburetor:** Mount the carburetor back onto the motorcycle, reconnecting all hoses, cables, and electrical connections. Secure the clamps.
8. **Test the System:** Reconnect the fuel line and turn on the fuel supply. Check for any leaks. Start the motorcycle and allow it to warm up. Adjust the idle and mixture screws as necessary to achieve smooth operation.

If you are unsure about any step, it is highly recommended to consult a professional motorcycle mechanic.

## MAINTENANCE

Proper maintenance of your carburetor is essential for long-term performance. Consider the following tips:

- **Regular Cleaning:** Periodically clean your carburetor, especially if the motorcycle is stored for extended periods or uses fuel with ethanol.
- **Fuel Quality:** Use high-quality, fresh fuel. Stale or contaminated fuel can lead to clogs and damage.

- Fuel Stabilizer:** If storing the motorcycle, use a fuel stabilizer to prevent fuel degradation and gumming in the carburetor.
- Air Filter:** Ensure your air filter is clean and properly maintained to prevent dirt and debris from entering the carburetor.
- Check for Leaks:** Regularly inspect fuel lines and carburetor gaskets for any signs of leaks.

## TROUBLESHOOTING

If you encounter issues after installing the repair kit, refer to the table below for common problems and their potential solutions.

Problem	Possible Cause	Solution
Engine won't start or starts with difficulty	Clogged jets, improper float level, fuel supply issue, air leak	Clean all jets, adjust float level, check fuel lines, inspect gaskets for air leaks.
Rough idle or stalling	Idle mixture screw misadjusted, pilot jet clogged, vacuum leak	Adjust idle mixture, clean pilot jet, check intake manifold and vacuum lines.
Poor acceleration or loss of power	Main jet clogged, diaphragm damaged, fuel flow restriction	Clean main jet, inspect and replace diaphragm if damaged, check fuel filter.
Fuel leaks from carburetor	Damaged float bowl gasket, stuck float needle, cracked float bowl	Replace float bowl gasket, clean or replace float needle, inspect float bowl for damage.
Excessive fuel consumption	High float level, oversized jets, leaky needle valve	Adjust float level, ensure correct jet sizes are installed, replace needle valve.

## SPECIFICATIONS

Key specifications for the Carburetor Repair Kit (Model FCDCADWBA-F):

Feature	Detail
Model Number	FCDCADWBA-F
Compatible Carburetor	Mikuni BST33
Compatible Motorcycles	Aprilia Pegaso 650, BMW F650
Item Weight	1.54 pounds
Package Dimensions	7.87 x 3.94 x 3.94 inches
Country of Origin	China
Main Components Included	Diaphragm, Float, Gaskets, Needle Valve, Various Jets

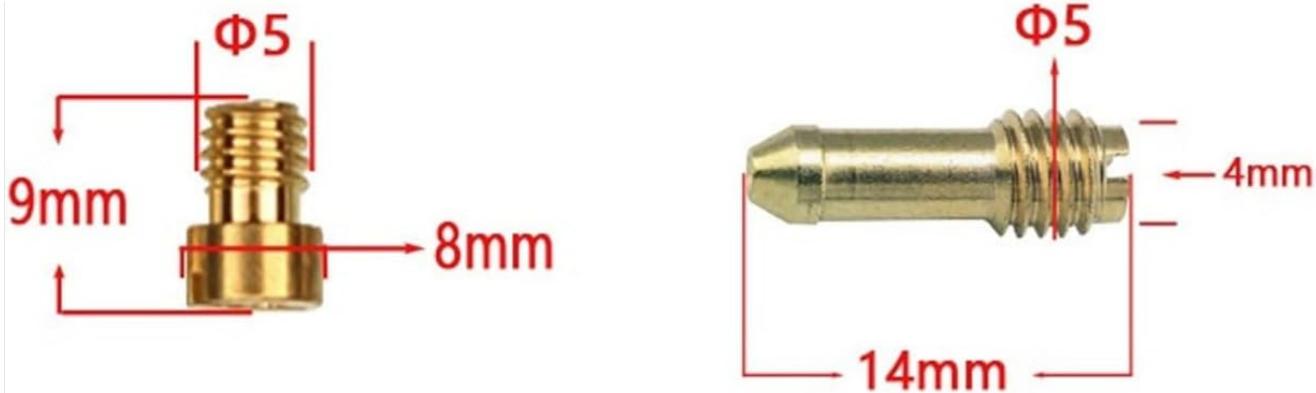


Image: Technical drawing showing the dimensions of a specific carburetor jet, including diameter ( $\Phi 5$ ), length (14mm), and thread details.



Image: Technical drawing illustrating the dimensions of the carburetor float, including overall width (37mm) and individual float arm widths (13.5mm).

## WARRANTY AND SUPPORT

This product is manufactured to high-quality standards. For any questions regarding installation, compatibility, or performance, please refer to the troubleshooting section or consult with a qualified motorcycle mechanic.

While specific warranty details are not provided in this manual, please retain your proof of purchase for any potential claims. For further assistance, contact the seller or manufacturer through the platform where the product was purchased.