

[Manuals.plus](#) /

› [Stens](#) /

› Stens OEM Gasket & Diaphragm Kit 615-590 for Walbro D10-WAT Instruction Manual

Stens 615-590

Stens OEM Gasket & Diaphragm Kit 615-590 for Walbro D10-WAT Instruction Manual

Model: 615-590

1. PRODUCT OVERVIEW

The Stens OEM Gasket & Diaphragm Kit 615-590 is a genuine Walbro replacement part designed for the repair and maintenance of specific Walbro WA and WT model carburetors. This kit provides essential components, including gaskets and diaphragms, necessary to restore proper fuel delivery and engine performance in compatible equipment.



Image 1.1: Contents of the Stens OEM Gasket & Diaphragm Kit 615-590. This image displays the various gaskets and diaphragms included in the kit, which are crucial for carburetor repair.

2. COMPATIBILITY

This kit is specifically designed for Walbro D10-WAT carburetors and is compatible with various Walbro WA and WT model carburetors. It is crucial to verify your carburetor's model number to ensure proper fitment. Incorrect parts can lead to improper function or damage.

- **Walbro Part Number:** D10-WAT
- **Stens Model Number:** 615-590
- **Compatible Carburetor Series:** Walbro WA and WT models.

3. KIT CONTENTS

The 615-590 kit typically includes the following components:

- Various gaskets for sealing carburetor components.
- Metering diaphragm.
- Fuel pump diaphragm.
- Other small components necessary for a complete carburetor rebuild (may vary slightly by kit).



Image 3.1: A closer view of the individual components within the kit, highlighting the different shapes and sizes of gaskets and diaphragms.

4. SETUP AND INSTALLATION

Carburetor repair requires careful attention to detail. It is recommended to consult your equipment's service manual or a reliable repair guide specific to your Walbro carburetor model before proceeding. The following are general steps:

1. **Preparation:** Ensure the engine is cool and disconnect the spark plug wire. Drain any fuel from the carburetor and fuel tank.
2. **Disassembly:** Carefully remove the carburetor from the engine. Take photos or make diagrams of the carburetor's assembly as you disassemble it to aid in reassembly.
3. **Cleaning:** Thoroughly clean all carburetor components using a carburetor cleaner. Ensure all fuel passages are clear and free of debris.
4. **Gasket and Diaphragm Replacement:** Remove all old gaskets and diaphragms. Install the new components from the kit, ensuring they are correctly oriented and seated. Pay close attention to the order of gaskets and diaphragms, especially the metering diaphragm and its associated gasket.
5. **Reassembly:** Reassemble the carburetor, ensuring all screws are tightened to the manufacturer's specifications. Reinstall the carburetor onto the engine.
6. **Testing:** Reconnect the fuel lines and spark plug wire. Refill the fuel tank. Start the engine and check for

fuel leaks and proper operation. Adjust the carburetor as needed according to your equipment's specifications.

Warning: Carburetor repair involves flammable liquids. Perform work in a well-ventilated area away from open flames or ignition sources. Wear appropriate personal protective equipment.

5. OPERATING CONSIDERATIONS AFTER INSTALLATION

After installing the gasket and diaphragm kit, the carburetor should function optimally. If the engine experiences issues such as rough idling, stalling, or poor acceleration, further carburetor adjustments or inspection may be required. Ensure all fuel lines are properly connected and free of air leaks.

6. MAINTENANCE

Regular maintenance of your carburetor and fuel system can extend the life of your equipment. This includes:

- Using fresh, clean fuel.
- Replacing fuel filters periodically.
- Inspecting fuel lines for cracks or leaks.
- Cleaning the carburetor if the equipment is stored for extended periods, especially with fuel containing ethanol.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Engine will not start or starts with difficulty.	Incorrect gasket/diaphragm installation, clogged fuel filter, stale fuel, improper carburetor adjustment.	Recheck gasket and diaphragm orientation. Replace fuel filter. Use fresh fuel. Adjust carburetor settings.
Engine runs rough or stalls.	Air leak around carburetor, clogged fuel passages, improper carburetor adjustment.	Ensure carburetor is securely mounted. Clean carburetor thoroughly. Adjust carburetor settings.
Fuel leaks from carburetor.	Damaged or improperly seated gasket, loose screws.	Inspect and reseal gaskets. Tighten carburetor screws.

8. SPECIFICATIONS

- **Model Number:** 615-590
- **Walbro Equivalent:** D10-WAT
- **Country Of Origin:** Thailand
- **Item Package Dimensions:** 3.95" L x 2.3" W x 0.35" H
- **Item Weight:** Approximately 0.176 ounces (5 grams)
- **Material:** Rubber, paper, and other composite materials for gaskets and diaphragms.

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Stens product, please contact Stens directly or refer to their official website. Always ensure you are using genuine Stens or Walbro parts for optimal performance and longevity.

