

## AUTOOL HTS518

# AUTOOL HTS518 Walnut Sand De-Carbon Cleaner User Manual

Model: HTS518 | Brand: AUTOOL

## 1. INTRODUCTION

The AUTOOL HTS518 Walnut Sand De-Carbon Cleaner is an advanced automotive tool designed for efficient and non-destructive cleaning of carbon deposits in engine intake and exhaust pipes, and intake and exhaust valves. Carbon deposits, formed from incomplete combustion residues, can lead to various engine performance issues such as difficult cold starts, unstable idling, reduced power, slow acceleration, increased fuel consumption, and higher exhaust emissions. This machine utilizes walnut sand, a natural and harmless abrasive, to effectively remove these deposits, restoring optimal engine health and performance. The HTS518 model is engineered for superior quality, featuring a high-quality motor for powerful suction and efficient carbon decomposition. Its design incorporates user-friendly features like a telescopic pull rod for easy mobility and a built-in dust filter for recycling walnut sand.

## 2. WHAT'S IN THE BOX

Upon unpacking, please verify that all the following components are included:

- 1 x AUTOOL HTS518 Walnut Sand De-Carbon Cleaner Main Unit
- 1 x Hose bend
- 1 x Spray gun
- 1 x Recycling hose
- 1 x Goggles
- 1 x Set of engine adapters



Figure 2.1: Overview of the AUTOOL HTS518 main unit and its included accessories, such as hoses, spray gun, goggles, and various engine adapters.

### 3. SPECIFICATIONS

Feature	Specification
Product Model	HTS518
Rated Power	1400W
Application Scope	All models
Vacuum Suction	0.02MPa

Feature	Specification
Rated Voltage	110V/220V
Air Flow	< 300L / min
Rated Frequency	50/60HZ
Host Capacity	30L
Product Weight	23.5 KG
Dimensions	520mm x 520mm x 890mm

**SPECIFICATIONS**

<b>Applications</b>	All vehicle	<b>Vacuum suction</b>	0.02MPa
<b>Rated voltage</b>	110V/220V	<b>Air flow</b>	<300L/Min
<b>Rated frequency</b>	50/60HZ	<b>Package dimensions</b>	520x520x890mm
<b>Capacity</b>	30L	<b>Weight</b>	23.5KG
<b>Rated power</b>	1400W		



Figure 3.1: Detailed specifications and labeled components of the AUTOOL HTS518 machine, including its trolley, handle, control panel,

sand suction port, stainless steel drum, sandblasting gun, sandblasting tube, and pulley.

## 4. SETUP GUIDE

Follow these steps to set up your AUTOOL HTS518 Walnut Sand De-Carbon Cleaner:

1. **Prepare the Machine:** Ensure the main unit is on a stable, level surface. The telescopic pull rod can be adjusted to three different heights for convenience.



Figure 4.1: The telescopic rod allows for 3-stop height adjustment, making the unit easy to move and position.

2. **Install Sand Suction Hose:** Connect the sand suction hose to the designated port on the main unit. Ensure it is securely fastened to prevent leaks during operation.
3. **Attach Sandblasting Gun and Adapters:** Connect the sandblasting gun to the hose. Select the appropriate engine adapter from the provided set that matches the intake port of the vehicle you are working on. The kit includes 5 kinds of fittings suitable for various car models.



# INTEGRATED DESIGN

The walnut sand grit can be sprayed & recovered simultaneously.

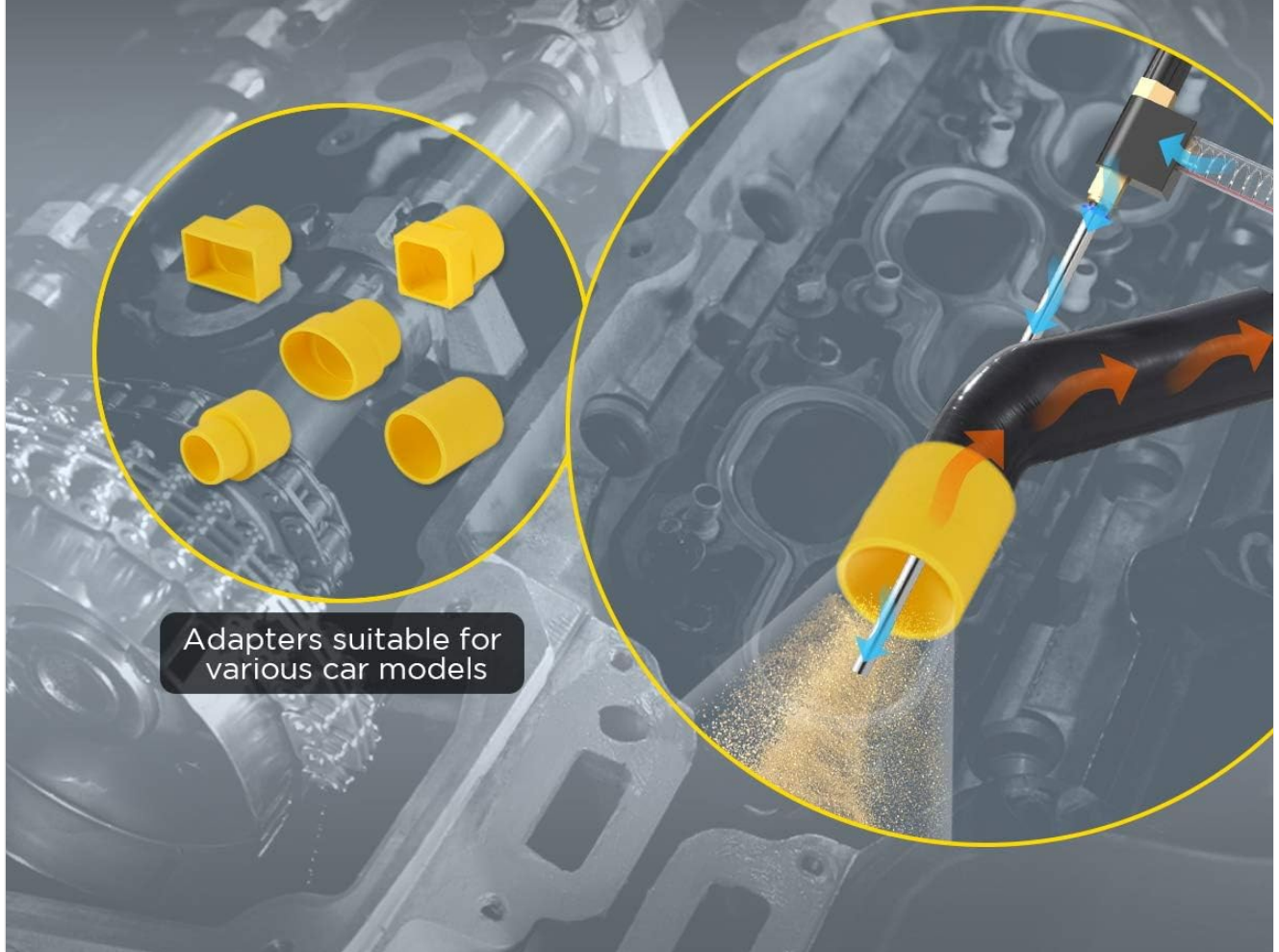


Figure 4.2: The integrated design allows for simultaneous spraying and recovery of walnut sand, with various adapters to fit different engine types.

4. **Connect External Air Source:** The machine requires an external air compressor with an output pressure of 120PSI for optimal performance. Connect the air hose from your compressor to the machine's air inlet.

# EXTERNAL AIR SOURCE

This enables the walnut sand grit to strike the carbon deposits more powerfully and efficiently.



Output pressure is 120PSI

Figure 4.3: The machine requires an external air source, typically an air compressor with 120PSI output pressure, to power the walnut sand blasting.

5. **Load Walnut Media:** Open the main unit and pour the walnut sand media into the designated compartment. Ensure the built-in dust filter is properly in place to separate recovered sand from carbon deposits for recycling.



## BUILT-IN DUST FILTER

It can separate the recovered walnut sand grit from carbon deposits for recycling.



Figure 4.4: The built-in dust filter efficiently separates recovered walnut sand grit from carbon deposits, allowing for recycling of the media.

6. **Power On:** Plug the machine into a suitable power outlet (110V/220V, 50/60HZ).

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Video 4.1: This video demonstrates the setup process for the AUTOOL HTS518, including connecting hoses, installing the sandblasting gun, connecting the external air source, and loading walnut media. It provides a visual guide for preparing the machine for operation.

## 5. OPERATING INSTRUCTIONS

Before operating, ensure you wear the provided safety goggles and any other necessary personal protective equipment.

1. **Inspect Intake Valves:** Before cleaning, visually inspect the engine's intake valves to assess the extent of carbon buildup. This helps in determining the required cleaning duration.



Figure 5.1: A close-up view of an engine intake valve showing significant carbon deposit buildup before the cleaning process.

2. **Select Speed Mode:** The HTS518 features both low-speed and high-speed modes. For general cleaning, start with the low-speed mode. For stubborn or heavy carbon deposits, switch to high-speed mode for increased suction and blasting power.
3. **Start De-Carbon Cleaning:** Insert the sandblasting gun with the appropriate adapter into the engine's intake port. Activate the machine. The walnut sand will be blasted into the intake manifold, effectively removing carbon deposits. The integrated design ensures that the sand and dislodged carbon are simultaneously recovered by the machine's suction.



# CAR DE-CARBON CLEANING EXPERTS

Carbon deposits lead to engine idling instability, insufficient air intake, power down, acceleration weakness.

HTS518 helps you clean the carbon deposits effectively, restoring your car to a healthy engine.



Figure 5.2: A visual comparison demonstrating the effectiveness of the HTS518, showing heavily carbonized engine components before cleaning and their significantly cleaner state after treatment.



Figure 5.3: This image illustrates the deep removal capability of the machine, showing the intake manifold before and after cleaning, highlighting the thorough elimination of sticky carbon deposits.

4. **Monitor Progress:** Continue the cleaning process until the carbon deposits are visibly removed. For most applications, complete cleaning can be achieved within three minutes per port.
5. **Post-Cleaning Inspection:** After cleaning, re-inspect the intake valves to ensure all carbon deposits have been removed. The valves should appear significantly cleaner.

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Video 5.1: This video demonstrates the operational steps of the AUTOOL HTS518, including checking carbon deposits, selecting speed modes, initiating the de-carbon cleaning process, and showing the clean results. It provides a comprehensive visual guide for effective use.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your AUTOOL HTS518:

- **Filter Cleaning:** Regularly check and clean the built-in dust filter. This filter separates the reusable walnut sand from the carbon deposits. A clogged filter can reduce suction efficiency.
- **Walnut Sand Management:** While walnut sand is organic and harmless, ensure proper disposal of used, contaminated

sand. Reusable sand can be stored for future use.

- **Hose and Gun Inspection:** Periodically inspect all hoses and the sandblasting gun for any signs of wear, cracks, or blockages. Replace damaged components immediately.
- **General Cleaning:** Wipe down the exterior of the machine with a damp cloth after each use to remove any dust or residue.
- **Storage:** Store the machine in a dry, clean environment away from extreme temperatures and direct sunlight. Utilize the telescopic rod and universal pulleys for easy movement and storage.

## 7. TROUBLESHOOTING

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If you encounter issues with your AUTOOL HTS518, refer to the following common troubleshooting tips:

- **No Suction or Weak Suction:**
  - Check if the power cord is securely plugged in and the machine is turned on.
  - Ensure the sand suction hose and all connections are tightly sealed.
  - Inspect the built-in dust filter for clogs and clean it if necessary.
  - Verify that the host capacity is not full.
- **No Sand Blasting or Weak Blasting:**
  - Confirm that the external air source (air compressor) is connected and providing sufficient pressure (120PSI).
  - Check if there is enough walnut media in the machine.
  - Inspect the sandblasting gun and hose for any blockages.
- **Machine Not Turning On:**
  - Ensure the power cable is properly connected to both the machine and the power outlet.
  - Check the power switch on the control panel.
  - Verify the power outlet is functional by testing with another device.

If the issue persists after following these steps, please contact AUTOOL customer support for further assistance.

## 8. WARRANTY AND SUPPORT

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AUTOOL provides a **Three Years Warranty** for the HTS518 Walnut Sand De-Carbon Cleaner. This warranty covers damages caused by non-human factors. During the warranty period, AUTOOL promises to resend parts for free if needed.

We are committed to lifelong maintenance and support for our products. For any inquiries, technical assistance, or warranty claims, please do not hesitate to contact AUTOOL customer support. We aim to respond as soon as possible, typically within 24 hours.

For the latest support information and contact details, please visit the official AUTOOL website or refer to the contact information provided with your purchase.