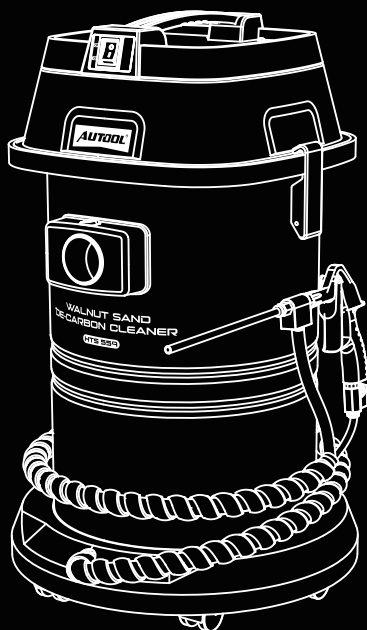


AUTOOL HTS559

Walnut Sand De-Carbon Cleaner

User Manual





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CAUTIONS

Warning



Before using the instrument, please read this manual carefully for proper operation.

- ▶ Keep the power cord away from heat, oil and sharp corners, and avoid the power cord from being damaged by stretching, squeezing or twisting.
- ▶ Please don't use it in areas where flammable, explosive or toxic objects are stored.
- ▶ Please don't vacuum up flammable, explosive, hot ashes, burning cigarette butts, etc.
- ▶ Please don't vacuum up corrosive liquids, e.g. bleach, ammonia water, drain cleaner, etc.
- ▶ Please don't vacuum up hard or sharp objects, e.g. broken glass, nails, screws, etc., to avoid damaging the hose.
- ▶ Please avoid malfunctions such as filter blockage and motor burnout caused by inhaling tiny particles such as gypsum powder, wall powder, and cement.
- ▶ If the machine vacuums up the above particles, please clean the filter in time.
- ▶ Please do not use this product without any filter screen, which will damage the motor and shorten the service life of the product.
- ▶ Please do not excessively twist, step on or pull the hose and do not continue to use after the hose of the carbon deposition cleaner is broken.
- ▶ The use of accessories and spare parts must meet the requirements of the manufacturer, and the product maintenance shall be replaced and repaired by the manufacturer or professionals in the maintenance department.
- ▶ The products and cables shall be placed out of the reach of children. People (including children) who are physically or mentally unsound or have no relevant experience and knowledge must use them under the supervision and guidance of their guardians.
- ▶ If the power cord, plug or other parts are damaged, the use of

this product must be stopped to avoid danger. Please contact the manufacturer immediately for replacement and maintenance.

Special instructions

This manual details the structural principle, functional characteristics, operating methods and relevant accessories of automotive walnut sand de-carbon cleaner, and briefly describes the precautions, maintenance and abnormal phenomenon treatment in use. AUTOOL reserves the right to change the product design and specifications, and the physical configuration is subject to the content of the product packing list.

PRODUCT INTRODUCTION

Overview

Thank you for choosing AUTOOL Automotive walnut sand de-carbon cleaner produced by AUTOOL TECH CO., LTD. The working principle of this product is that the high-pressure air flow is sprayed into the engine intake pipe, and the sand particles at high-pressure and high-speed will roll and collide in the closed intake pipe, so as to impact the carbon deposits on the intake valve and cylinder wall, and then the walnut sand and the carbon deposit mixture are recovered into the sand storage bucket through a special joint.

Main functions

- **Intake manifold cleaning:** Clean the intake manifold of the engine by sandblasting in sequence.
- **Intake/Exhaust valve cleaning:** The valves can be cleaned by sandblasting in sequence without dismantling.

Main features

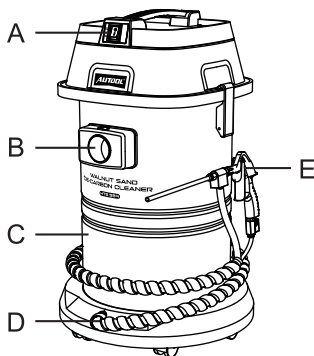
- 1400W high-power motor is adopted, with strong suction.
- Walnut sand is used for physically harmless cleaning.
- Filter screen is used to separate carbon and sand particles for reuse.
- External air compressor gas-supply, powerful sandblasting, better cleaning effect.

Specifications

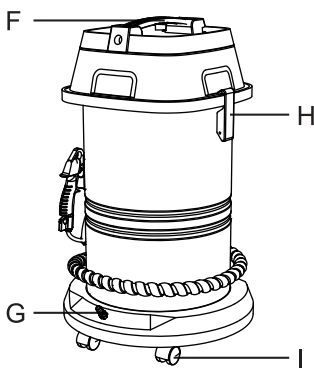
Power Supply	AC 220V±10% 50Hz AC 110V±10% 60Hz
Main Power	1400W
Sand Volume	30L
Machine Weight	12kg
Environment Temperature	-10°C~+40°C
Relative Moisture	<85%

PRODUCT STRUCTURE

Structure
diagram



A	Switch	B	Hose connection for particle recovery
C	Stainless sand storage bucket	D	Sand blasting hose
E	Sand blasting gun		



F	Handle	G	Air connector
H	Machine head latch	I	Pulleys

OPERATIONS INSTRUCTION

Installation and connection

- After unpacking, move the machine to the work area, then take out the particle recovery hose and install it on the suction pipe interface.
 - Take out the hose bend of the recovery particle and install it on the recovery particle hose.
 - Take out the long pipe or short pipe of the sandblasting gun and install it on the sandblasting gun.
 - Insert the sand blasting gun into the round hole on the hose bend of the recovery particle hose.
 - Connect the quick coupler of external air source to the air source connector of the product.
 - Plug the power cord into the external power socket.
-

Preparatory work

- Open the latches at both ends of the machine, remove the machine head cover, take out the filter cartridge, take out the walnut sand and add it into the stainless bucket (it is recommended to add 3-5kg walnut sand.), and then install the filter cartridge and the machine head cover in turn.
 - Take out the goggles and wear them.
 - Disassemble the automotive engine intake manifold and observe the carbon deposition in the cylinder and the valves and whether the intake and exhaust valves are closed.
 - Confirm that the sand blasting gun, the hose bend of the recovery particle and the model adapter have been completed according to the corresponding matching.
-

Operation process

- Turn on the power switch, and the machine starts to work.
- Connect the sandblasting gun and hose connector together to the engine manifold port, and confirm that they are well sealed.
- Pull the sandblasting switch and start to enter the de-carbon procedure (generally, one manifold port can be cleaned up for about 2 minutes and then stop to check the cleaning effect).
- After cleaning the carbon deposits, use a dust blowing gun to blow out the remaining sand particles.

MAINTENANCE SERVICE

Our products are made of long-lasting and durable materials, and we insist on perfect production process. Each product leaves the factory after 35 procedures and 12 times of testing and inspection work, which ensures that each product has excellent quality and performance.

Maintenance To maintain the performance and appearance of the product, it is recommended that the following product care guidelines be read carefully:

- Be careful not to rub the product against rough surfaces or wear the product, especially the sheet metal housing.
- Please regularly check the product parts that need to be tightened and connected. If found loose, please tighten it in time to ensure the safe operation of the equipment. The external and internal parts of the equipment in contact with various chemical media should be frequently treated with anti-corrosion treatment such as rust removal and painting to improve the corrosion resistance of the equipment and extend its service life.
- Comply with the safe operating procedures and do not overload the equipment. The safety guards of the products are complete and reliable.
- Unsafe factors are to be eliminated in time. The circuit part should be checked thoroughly and the aging wires should be replaced in time.
- Adjust the clearance of various parts and replace worn (broken) parts. Avoid contact with corrosive liquids.
- When not in use, please store the product in a dry place. Do not store the product in hot, humid, or non-ventilated places.

WARRANTY

From the date of receipt, we provide a three-year warranty for the main unit and all the accessories included are covered by a one-year warranty.

Warranty access

- The repair or replacement of products is determined by the actual breakdown situation of product.
- It is guaranteed that AUTOOL will use brand new component, accessory or device in terms of repair or replacement.
- If the product fails within 90 days after the customer receives it, the buyer should provide both video and picture, and we will bear the shipping cost and provide the accessories for the customer to replace it free of charge. While the product is received for more than 90 days, the customer will bear the appropriate cost and we will provide the parts to the customer for replacement free of charge.

These conditions below shall not be in warranty range

- The product is not purchased through official or authorized channels.
- The product breakdown because the user does not follow product instructions to use or maintain the product.

We AUTOOL pride ourselves on superb design and excellent service. It would be our pleasure to provide you with any further support or services.

Disclaimer

All information, illustrations, and specifications contained in this manual, AUTOOL reserves the right of modify this manual and the machine itself with no prior notice. The physical appearance and color may differ from what is shown in the manual, please refer to the actual product. Every effort has been made to make all descriptions in the book accurate, but inevitably there are still inaccuracies, if in doubt, please contact your dealer or AUTOOL after-service centre, we are not responsible for any consequences arising from misunderstandings.

RETURN & EXCHANGE SERVICE

Return & Exchange

- If you are an AUTOOL user and are not satisfied with the AUTOOL products purchased from the online authorized shopping platform and offline authorized dealers, you can return the products within seven days from the date of receipt; or you may exchange it for another product of the same value within 30 days from the date of delivery.
- Returned and exchanged products must be in fully saleable condition with documentation of the relevant bill of sale, all relevant accessories and original packaging.
- AUTOOL will inspect the returned items to ensure that they are in good condition and eligible. Any item that does not pass inspection will be returned to you and you will not receive a refund for the item.
- You can exchange the product through the customer service center or AUTOOL authorized distributors; the policy of return and exchange is to return the product from where it was purchased. If there are difficulties or problems with your return or exchange, please contact AUTOOL Customer Service.

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