

English

Contents

Key to symbols

Safety Instructions

Introduction

What is what

Operation

Maintenance

Key to symbols

The symbols below are used on the machine and in this Operator's Manual. It is important that the user understands the significance of these in order to work with the machine safely.

Manual

Please read the Operator's Manual carefully and understand the contents before the machine is started.



Protective equipment

Always wear:

- Approved protective helmet.
- Approved hearing protection.
- Approved protective glasses or a visor, and other essential safety equipment.



Warning

A large warning triangle with the text "Warning" signifies that there is a risk of serious personal injury or even death.



CAUTION

A smaller warning triangle with the text "Note" signifies that there is a risk of minor personal injury or damage to the machine.



Remark

A hand with a raised index finger with the text "Attention" signifies that a described element demands extra attention.



CE

This symbol indicates that the machine conforms to applicable EU directives



Safety Instructions

During the design and production of Husqvarna products, great importance is placed on safety, as well as effectiveness and ease of use. To ensure that the machine remains safe you must pay attention to the following points:

Only qualified staff should be allowed to operate machinery. Operators without sufficient qualification should be supervised at all times.

All repairs not covered in this manual must be performed by a repairer nominated by either the manufacturer or distributor. Failure to comply may void warranty.

Personal safety equipment such as steel cap shoes, safety glasses and ear protection should be worn when using machinery.

The machine should not be used in areas where potential for fire or explosions exist. The machine should not be started without the dust collection bag attached.

At no time should lifting of machinery be attempted without mechanical means such as a hoist or fork lift.



CAUTION

Under no circumstances may the machine be started without observing the safety instructions. Should the user fail to comply with these, Husqvarna Construction Products Sweden AB or its representatives are free from all liability both directly and indirectly. Read through these operating instructions and make sure that you understand the contents before starting to use the machine. Should you, after reading these safety instructions, still feel uncertain about the safety risks involved you must not use the machine. Please contact your dealer for more information.



Dust hazards may arise when using this piece of industrial equipment. Use respiratory protection.



Always wear an approved protective helmet, hearing protection, protective glasses or a visor, and other essential safety equipment. Dust forms when grinding, which can cause injuries if inhaled. Use an approved breathing mask. Always provide for good ventilation.



Always wear approved protective gloves.

Introduction

The Husqvarna DC 5500 dust extraction / vacuum unit is designed for wet or dry suction of concrete dust and liquid slurry.

This manual covers the Husqvarna DC 5500 dust extraction/ vacuum unit. It is extremely important all users be familiar with the contents of this manual before commencing operation of either machine. Failure to do so may result in damage to machinery or expose operator to unnecessary dangers.

ATTENTION!

Only staff that have received the necessary education, both practically and theoretically concerning their usage should operate the machinery.

Transportation

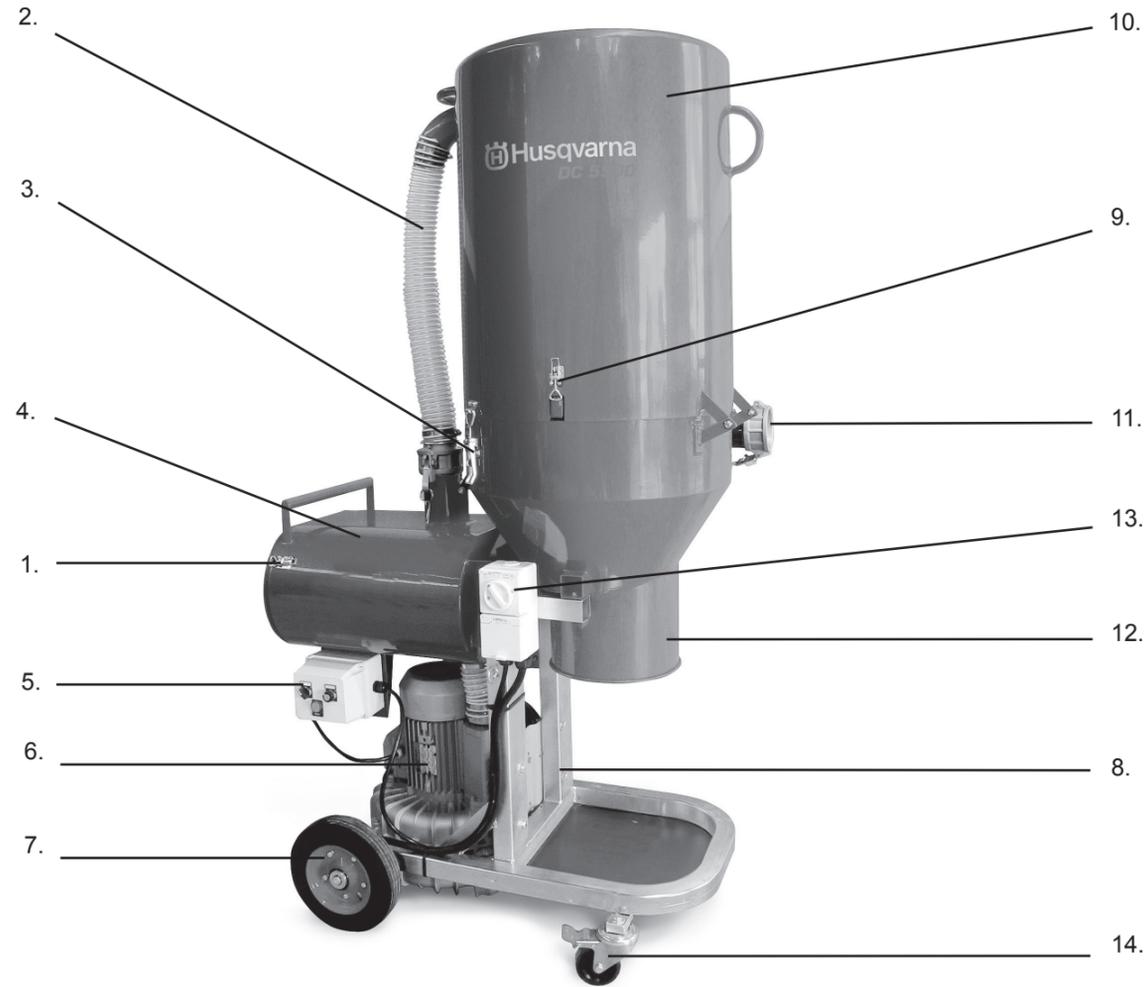
When in transportation, it is important to ensure the unit is properly secured at all times. Machinery should be transported under cover where possible, unexposed to natural elements – in particular rain and snow. Although resistant to water, all efforts should be taken to protect unit from water damage.

It is recommended that machinery be transported upright where possible, especially when transported when not covered.

It is highly recommended that a dust collection bag be fitted to the machine at all times whether in use or transportation.

Storage

The machine should always be stored in a dry and warm place when not in use to prevent condensation build up inside.



What is what

The Husqvarna DC 5500 is comprised of a number of key components as illustrated throughout this manual.

It is important to become familiar with the following parts of the machine:

- | | |
|-----------------------------|-----------------------------|
| 1. Small toggle latch. | 8. Frame |
| 2. Filter link hose | 9. Small toggle latch. |
| 3. Large toggle latch. | 10. Primary filter housing |
| 4. Secondary filter housing | 11. Hose attachment fitting |
| 5. Control box. | 12. Collection cone |
| 6. Vacuum pump. | 13. Accessory power point. |
| 7. Rear wheel. | 14. Castor wheel. |

Diagram 1.

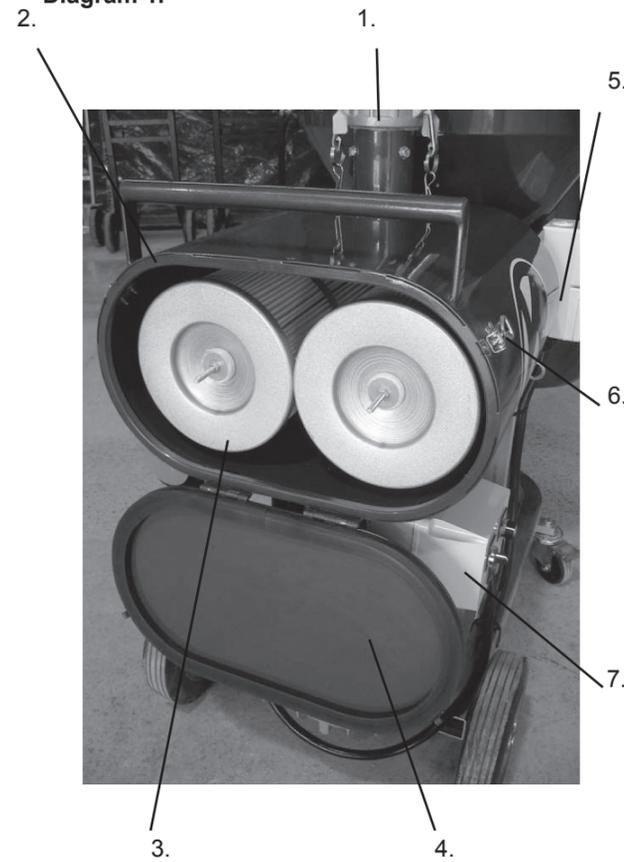


Diagram 1.

1. Filter link hose coupling
2. Secondary filter housing
3. Secondary filter.
4. Secondary filter housing door
5. Accessory power point.
6. Small toggle latch.
7. Control box.

Diagram 2.



Diagram 2.

1. Off/ On switch.
2. Forward / Reverse switch.

Diagram 3.



Diagram 3.

- 1. Primary clamp part
- 2. Primary filter sock part
- 3. Primary filter seal. Outer part (kit)
- 4. Primary filter seal. Inner part (kit)

Diagram 4.



Control box

The control system for the DC 5500 consists of three switches:

- 1. On/Off switch.
Turns machine off in OFF position and on in ON position.
- 2. Fwd/Rev switch.
Changes direction of vacuum pump. Sometimes direction of vacuum will need to be reversed depending on phase order of power supply.

NOTE!

Direction should NEVER be changed while machine is switched to ON position (this is why there is a lock on the FWD / REV switch). If direction needs to be changed, turn machine back to OFF position, wait for 1 minute, change direction and then switch back on. Once direction setting has been changed, remove key from FWD / REV switch before switching back on.

Changing of direction while machine is running will result in motor failure.

Operation (dry use)

Setting up.

1. Position the vacuum in the working area.
2. Ensure plastic bag is fitted to collection cone.
3. Plug vacuum into power supply and switch on power supply.

NOTE!

Ensure vacuum is set to Off position prior to turning on power supply.

4. Disconnect Filter Link Hose from top of Secondary Filter Housing.
5. Switch machine to On position for 2 seconds and place hand over Filter Link Hose Coupling. Feel with hand whether machine is sucking or blowing.
6. If machine is blowing, wait 1 minute (for motor to completely stop turning) and switch machine to other direction using FWD/REV switch.

NOTE!

Always remove key from FWD/REV switch. This will lock switch and make it impossible to change direction of motor when machine is running.

7. Once machine direction is set correctly it is ready for use with grinding machine.

Cleaning the primary filters.

After every 10-20 minutes of operation, the primary filters will need cleaning as dust will buildup on the inside of the filter socks. The easiest and most effective way to clear the dust buildup on the filter sock is as follows:

1. Switch the machine to the off position.
2. Using a large rubber hammer / mallet, tap the top surface of the primary filter housing 10 times. While this is happening you will notice all the dust from inside the unit drop into the plastic bag attached to the collection cone.

Changing the dust bags.

Once the dust bag has collected around 20kg of dust, to avoid lifting hazards caused by overfilling of dust bags, the dust bag should be changed.

1. Clear the primary filters of dust as outlined on previous page and agitate bag so that dust settles in the bottom of the bag.
2. Switch the machine back into On position (you will notice the air is sucked from the plastic bag).
3. Tie bag off below the collection cone using a cable tie or other bag tie.
4. Release elastic strap and remove sealed bag.

NOTE!

Use extreme caution when releasing and re-attaching elastic strap.

5. Using elastic strap, attach new empty plastic bag (you will notice the air is sucked from the plastic bag).
6. Machine is now ready to be used for duct collection again.

NOTE!

It is important to keep vacuum running during the bag changing process. This will keep the valve in the collection cone closed ensuring no dust will drop out from within the collection cone when bag changing is being performed.

This method will greatly reduce operator exposure to fine dust particles when using the equipment. It is strongly advisable that all operators use a dust mask / respirator when changing dust bag or performing maintenance on the Husqvarna DC 5500 dust extraction machine.

Operation (wet use)

The Husqvarna DC 5500 can also be used for collection of wet materials such as slurry formed from the wet grinding process.

In order to use the Husqvarna DC 5500 for wet collection, simply remove the Primary Filter Socks from the unit.

1. Disconnect the Filter Link Hose.
2. Release the Large Toggle Latch.
3. Fold the Primary Filter Housing into the forward position.
4. Release the 2 Small Toggle Latches.
5. Lift the Primary Filters from within the Primary Filter Housing.

NOTE!

It is strongly advisable that all operators use a dust mask/ respirator when removing primary filter socks from the Husqvarna DC 5500.

Troubleshooting

Whilst every measure has been undertaken by the manufacturer to ensure smooth reliable operation of the machine, sometimes problems can arise.

The following possible problems may arise:

1. The machine will not run.
Ensure power connected to machine is on. If machine still will not run, remove cover from control box and test for presence of power supply at top of left side contactor (this should only be performed by a licensed electrician). If no power at contactors, test power supply at power source. If power supply is ok at source but there is no supply at contactors in control box, check connections inside ACCESSORY POWER POINT.
2. The machine makes a low humming sound when switched to ON.

This indicates there are only two-phases of power supply at the motor. Switch off machine immediately to avoid motor burn-out. Have an electrician check the machine to determine the cause of the missing phase. If all three-phases are ok at motor then there is a strong possibility the motor has a fault.
3. The machine will only run in one direction.
This indicates a problem with either the FWD/REV switch mechanism or one of the contactors. Have an electrician test the machine.
4. The machine will run but there is not power at the ACCESSORY POWER POINT.

Check connections inside ACCESSORY POWER POINT.
5. The machine does not have much suction.

(A) Inspect inside SECONDARY FILTER HOUSING and make sure SECONDARY FILTERS are not blocked with dust. If blocked up with dust, remove and clean filters by either tapping out or using compressed air. Note: A respirator should be worn at all times when performing filter cleaning activities. If large amounts of dust present in SECONDARY FILTER HOUSING, this indicates a problem with the PRIMARY FILTERS. Usually this means there is a hole in one or more of the PRIMARY FILTERS or one of the PRIMARY FILTERS has come loose. Check PRIMARY FILTERS for small holes or perforations. Small holes can be repaired / patched using silicone sealant.

- (B) Make sure flap in bottom of COLLECTION CONE is closing properly and creating a seal.

If this flap is not functioning properly, machine will tend to suck up dust bag when switched on.
6. The machine is blowing dust out the exhaust.

(A) Normally this means the SECONDARY FILTERS are not installed properly and dust is bypassing them. Ensure the seals on the ends of the SECONDARY FILTERS opposite the SECONDARY FILTER HOUSING DOOR are creating a proper seal. This can be viewed by looking down the FILTER LINK HOSE COUPLING.
- (B) SECONDARY FILTERS may need replacing.

Maintenance

The following maintenance steps should be followed to maximise optimal performance and reliability of the machine:

Daily Inspection of Micro Filters:

It is highly recommended that operators check dust levels inside SECONDARY FILTER HOUSING on a daily basis. This will indicate the effectiveness of the primary filters. If there is dust building up inside the secondary filter housing, it is more than likely one of the following reasons:

1. Small holes or perforations have developed in primary filters.
2. There is a problem with a seal in the PRIMARY FILTER HOUSING assembly. If when inspected, it is found that there is dust building up inside the SECONDARY FILTER HOUSING, it is recommended to remove the PRIMARY FILTERS and check for small holes or perforations. Usually, small holes will begin to develop around the stitching of the filter media. If small holes are located, clean area around hole with either compressed air or vacuum. Once area is clean, the hole can be repaired with silicone sealant. If no small holes or perforations are found, check rubber seals in the PRIMARY FILTER HOUSING assembly and make sure they are all intact.

Generally speaking, with consistent use, the PRIMARY FILTERS should be replaced approximately every 6 months. This will maintain good suction levels and reduce incidence of holes developing in the filters.

SECONDARY FILTERS should be changed every 12 months. Being made from a polyester filter media, the secondary filters can be washed out with water. Ensure they are fully dry prior to re-installation.

On re-installation of SECONDARY FILTERS, ensure the seals are firmly pressed against the wall of the secondary filter housing. This contact can be assessed by looking down through the FILTER LINK HOSE COUPLING.