

PESTWORKER

PW5 Battery Powered Knapsack sprayer

Operation Manual



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CAUTION



- Please read this manual carefully and operate strictly according to the safety standard specified in the manual provided by supplier.
- Use of backpack sprayers can be dangerous.
- You must read, understand, and comply with the following safety precautions for your protection and the protection of others.
- Please store the manual well to refer it at any time, if you lose this manual, Sowa Global Ltd will provide with a replacement manual free of charge. If lended to others, please attach the manual. If needed, please explain it completely to the borrower to avoid the harm due to the improper using.

WARNING

- **Battery must be charged 24 hrs before use.**
- The new machine must be charged before using. It is normal for a new machine and the machine stored for a long time charged incompletely. It will be charged fully after releasing repeatedly.
- Don't charge in wet room or with wet hands, or you will get an electric shock.
- Please be sure to charge after using, and charge fully before depositing.
- Check if the parts in the package coincide with the packing list.
- Don't use it to spray corrosive liquids, coal oil and other volatile liquid in order not to catch fire or get burn.
- It will harm persons and crop if the chemical liquid is mixed improperly. Please read the introduction of pesticide before using it.
- Don't use the virulent pesticide prohibited by the government.
- Don't use the machine to harm the environment.
- In order to avoid incidents incurred by clinging to the pesticide, the operator must wear flanged cap, fog - proof glasses, gauze mask, long gloves, coat guarding against poisons, boots and some other protective clothing.
- After operating, the operator must wash the whole body with water and soap. In the meantime, the operator must wash eyes with clean water, and changing clothes every day within the period of operating.
- Drunk, patients, tired, allergic, pregnant woman, under age of 18 can not use the machine.
- Don't let the deposit or the water cleaned the machine flow into river, lack pond or cloacae, in order not to make pollution.
- Allow only persons who fully understand this manual to operate your sprayer.
- Because a backpack sprayer involves weight bearing of the tool itself on the users body, special safety precautions must be observed.
- Failure to follow the instructions for use and maintenance of this product will void the expressed product warranty and an implied warranty.
- The machine should clean completely, be dried and charged fully after using, then laid in a place cool and winding.
- Follow the cleaning and storage instructions in this manual.
- Use only PESTWORKER supplied parts and follow service instructions. Using non-approved parts will void the product warranty.

INTRODUCTION

- Thank you sincerely for buying PESTWORKER product. We hope you will be satisfied by its performance and easy use.
- This machine is suitable for use in prevention of plants diseases and pests. Using this machine for any other use may be dangerous and is at your own risk.
- Please follow the instruction of operating in this manual, including the information you take care specially. Keep this manual to check it up in the future.
- The manufacturer shall not be responsible for damages caused by improper use or misuse of this machine.

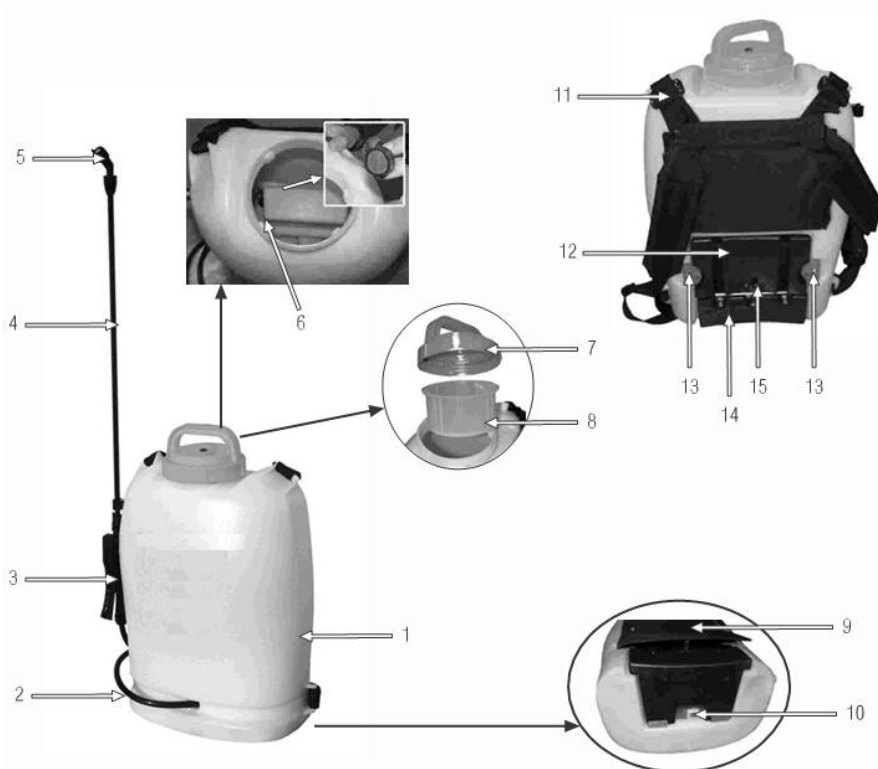
TECHNICAL SPECIFICATION

Model code	PESTWORKER PW5
Product name	Battery Powered Knapsack sprayer
Engine	DC 12 V – 1.9 A
Working pressure	2-4 bar
Max flow	0,48 – 1,2 L/min
Tank capacity	16 L
Nominal tank capacity	15 L
Battery	12 V, 7.0 AH (Dry battery lead)
Battery charger	Input 230 V – 50 Hz, Output 12 V, 1,3 A
Lasting working time	3 - 5 H
Weight with the battery	6 KG
Tank Material	Polyethylene
Duty Cycle	Intermittent
Spray Hose	Reinforced/Braided PVC



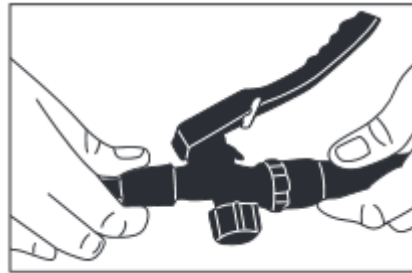
PARTS DIAGRAM

1. Tank	9. Pad
2. Flexible tube	10. On/Off switch
3. Spear gun	11. Belts
4. Spear	12. Battery cap
5. Nozzle	13. Battery retainers
6. Filter Pump	14. Pump cap and engine
7. Tank cap	15. Battery connectors
8. Filter tank cap	

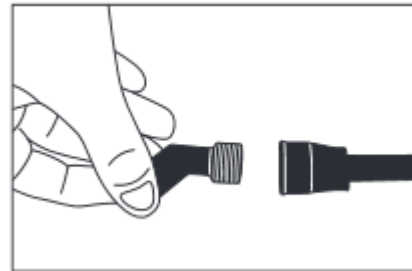


SPEAR GUN ASSEMBLY

- Insert and screw the spear. Do not use any tools to tighten, it's may damage the spear.



- Hold the spray gun with one hand and adjust the spray direction by holding the spray head.



CHARGING BATTERY



CAUTION

- Battery must be charged 24 hours before first use.
- Please use charger provided by PESTWORKER, to avoid fire.

- Do not charge the battery with the switch on position "I" (ON)



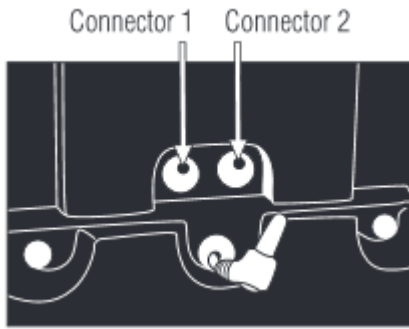
OFF
ON

Your PESTWORKER™ PW5 Battery Powered Knapsack sprayer uses a high capacity 12 Volt battery, which will provide several hours of intermittent use when fully charged. Intermittently means for a few minutes and then it's off for another few minutes. A run out battery will take approximately 14 hours to fully recharge. Charge battery approximately 8 hours after each use to prevent battery from reaching a low state.

- The battery can be fully removed without tools.
- The battery can be charged
- Fully loosen the shoulder straps to allow easy access to the battery pack.
- If you need to spray for a long period of time, we advise you to order spare battery.
- Do not mistake the wire of the battery, or it will burn the battery and charger. The red wire should be connected with the red end of the battery.
- If necessary replace the battery. In turn, the battery must be disposed of in a special site for recycling.

TO CHARGE BATTERY WITHOUT REMOVING FROM THE SPRAYER

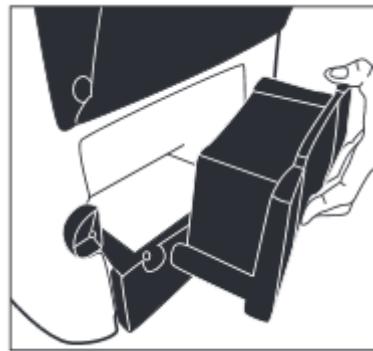
- Fully loosen the shoulder straps to allow easy access to the battery pack.
- Lift the rear pad and insert the charging plug in any of the 2 connectors



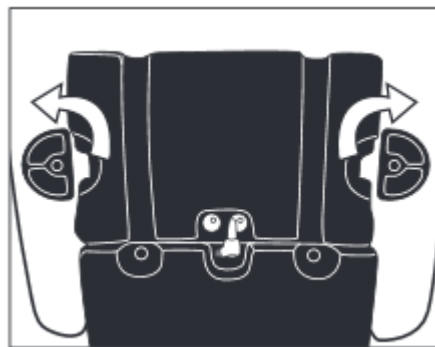
- Connect the power cord to 220 V
- After charging the battery, disconnect the charger from the outlet and the battery sprayer and attach the pad in place

TO CHARGE BATTERY BY REMOVING IT FROM THE SPRAYER

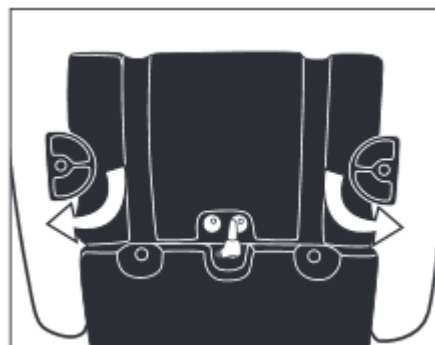
- Fully loosen the shoulder straps to allow easy access to the battery pack.
- Raise the pad fully visible leaving the top of the battery.
- Turn the two retainers leaving the cap with the battery.



- Pull the battery pack away from compartment.



- Plug the charger into a grounded 220V wall receptacle.
- Once fully charged, remove cable plug from the charging jack.
- Make sure the battery retainers are in the open position.
- Return the battery pack to tank compartment.
- Rotate the battery retainers to the locked position.



CAUTION



- Don't use the virulent chemicals prohibited by the government.
- Don't use it to spray corrosive liquids, coal oil and other volatile liquid in order not to catch fire or get burn.
- It will harm persons and crop if the chemical liquid is mixed improperly. Please read the introduction of pesticide before using it.
- Always place the sprayer on a flat, level, bare ground when filling.
- Use of the inlet strainer is a must.
- Use of the inlet strainer is a must. It must be in place at all times when using the sprayer. The inlet strainer protects the pump from ingesting debris, which may cause the pump to operate poorly or not at all.

Your PESTWORKER™ PW5 Battery Powered Knapsack sprayer comes with high quality belt and back pad for your comfort. The material are breathable and water resistant, but some liquid may enter at the seams of the belt and pad. To avoid, please remove belt/pad, when filling the tank.

- Pull the lower straps through the tension locks until free.
- Remove the upper straps from the strap holders.
- Remove the belt.

CHEMICAL SOLUTION

- If using a dissolvable powder, solution should be mixed in a separate container following to the chemical manufacturer's instructions. Use only the exact dilution called for in the instructions provided by the manufacturer. Using excessive amount powder may result in a high concentration of solids in the sprayer tank, which may foul the pump.
- The maximum temperature of the liquid to be sprayed must not exceed 43°/110°F
- Do not spray insecticides with a sprayer that has been used to spray herbicides, unless the unit has been cleaned thoroughly and flushed using the correct neutralizer, following manufacturer's instructions.
- Do not use wettable powders in this sprayer. Wettable powders do not dissolve to form a solution, but are intended to require a constant agitation to keep them in suspension. We advise to use liquid solutions. Most popular chemicals usually available in liquid form.
- The volume of the tank can vary in the molding process, when filling the tank, the level indication marks on the tank should be considered approximately.
- To avoid spillage from entering the battery pack area, we advise to fill chemical tank from the side opposite that which will be against your back. If any spillage contacted the battery pack, remove the battery back and dry the battery and terminals with a cloth, as well as the support bracket
- Always wipe the exterior immediately, if any spills occurred while filling.
- When the tank is full, return the lid to the tank and tighten firmly by rotating it clockwise.
- Reinstall the belt.

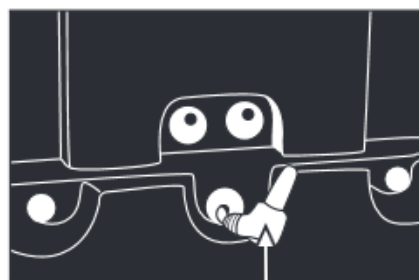
PUT SPRAYER ON THE BACK

When the sprayer ready to use, we advise you place the machine on a table or any high, level surface. It's will be easy to put both arms through the shoulder belts, and then pull firmly down on the loose ends to tighten the shoulder belts.

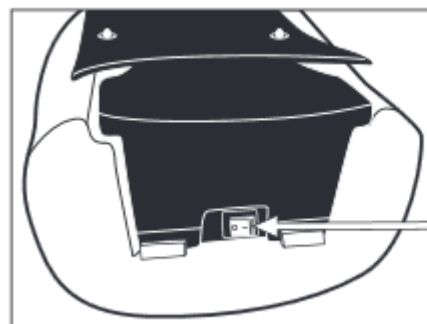
TURNING THE POWER ON



- Connect the power plug in any of the 2 connectors of the battery.
- Simply press switch ON button.
- Simply squeeze the handle begin spraying, and release the lever to stop spraying.
- To turn the power off, press switch OFF button, and hold the button down for few seconds.
- After shutting off the power, relieve the system pressure for safety, by pointing the wand in a safe direction and squeezing the hand lever on the spray wand for few seconds.
- Disconnect the power plug for safety.



Engine plug



LOW BATTERY INDICATOR

When the battery has low power, and needs to be recharged, or replaced to spare one. It is not necessary to fully deplete the battery before recharging. After any period of use, the battery may be charged and returned to full capacity without risk of damage or reduction of cycle life

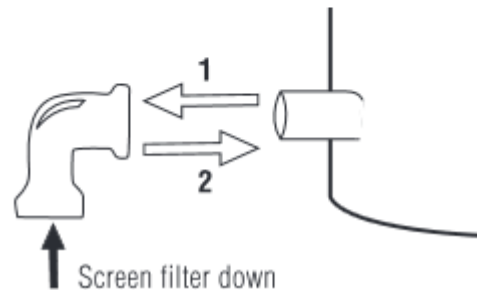
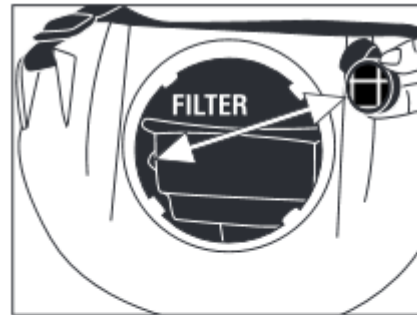
CLEANING



- Do not use abrasive cleaners or solvents to clean the tank and exterior surfaces as they may cause deterioration.
- The machine should clean completely, be dried and charged fully after using, then laid in a place cool and winding.

WHEN FINISHING SPRAYING:

- Turn the power off by pressing switch on/off button and holding it down for few seconds.
- With the wand pointed in a safe direction, squeeze the hand lever to relieve the pressure in the discharge line.
- Reach in to the bottom left corner of the sprayer tank and remove the inlet strainer. As soon as removed clear any debris on the strainer by placing it under running water.
- Reinstall the strainer taking care that it is firmly in place.
- Disconnect the power plug from the battery jack to ensure that the pump will not be unintentionally activated.
- Remove the belts.
- Pour any remaining contents of the tank into an appropriate storage container for future use or disposal in accordance with local regulations.
- Clean the tank and other exterior surfaces by wiping with a damp cloth.
- When flushing the tank, we advise to follow the chemical manufacturers flushing instruction for the chemical you are spraying.
- After flushing the tank, add water, and squeeze the hand, and allow the pump to run until the tank is empty. This will flush the hose and wand.



STORAGE



- To storage in freezing conditions, the system must be flushed, drained and relieved of pressure to prevent damage to the pump.
- Store the machine with the tank empty, pressure relieved from the discharge line and wand, and the power plug removed from the battery jack.
- Store the machine away from direct sunlight, and out of the reach of children.

PROBLEM	ACTION
Pump motor runs, but does not pump fluid.	Check pump inlet hose to ensure it is not blocked, or leaking.
	Check discharge hose, wand tip inlet strainer and strainer in the spray wand handle to ensure they are not blocked.
No power and does not pump chemical solution.	Open the battery cover and check wire connections at battery terminals, black wire to negative (-) pole of the battery battery and the red wire to the positive (+) pole.
	Remove the power plug and check the battery jack to ensure it is clean of debris, chemical residue and it is dry.
	Remove the battery pack and check the battery with voltmeter. If the battery shows less than 11.5 volts, you will need to replace the battery.
There is a power, but does not pump chemical solution.	Check pump intel hose to insure it is not blocked, or leaking.
	Check discharge hose, wand tip intel strainer and strainer in the spray wand handle to ensure they are not blocked.
Pump operates, but flow rate is reduced.	Check the inlet strainer and strainer in the spray wand handle to ensure it is clean of debris. Clean and replace if needed.

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