



BATTERY-POWERED BACK PACK AGRICULTURAL SPRAYER

USER MANUAL

[Revision 3.0 February 2016]

RETAIN THIS MANUAL FOR FUTURE REFERENCE

PLEASE READ THIS MANUAL CAREFULLY BEFORE USE

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SAFETY

- Read all safety warnings and instructions. Failure to follow the warnings and instructions can result in electric shocks, fire and/or serious injuries.
- Store manual and instructions in a sensible location for future reference.
- The battery charger supplied matches the lithium battery installed in the Lithium-ion back pack sprayer. DO NOT USE any other charger to recharge the Lithium-ion back pack sprayer.
- When spraying a mixture of different liquids, user must put on safety glasses, masks, gloves and protective clothing to avoid accidents and injuries. Do not spray upwards for pesticide spraying. Do not spray on other people, animals and food items. Do not spray for long periods of time at high temperatures. Do not use the sprayer under the influence of drugs and/or alcohol.
- In dealing with pesticides, user must follow all of the safety instructions.
- User must use clean water. Powder pesticides should be dissolved well in water, and then let the mixture sit for a short period of time. In this way, the mixture can pass through the filter and avoid damaging the sprayer.
- When using the sprayer, if there is a drop in water pressure, and/or the power indicator is red, user should immediately re-charge the sprayer to avoid damaging the battery.
- Do not put any machineries/devices in the water.
- After use, rinse out the sprayer and tank well with clean water. Run water through the spray gun for a few minutes while pressing the trigger. If necessary, you can remove both nozzles for cleaning if they are clogged.
- When storing the sprayer, charge the battery at least once every three months to protect it from damage. Store the sprayer in a dry, secure location indoors, out of reach of children.
- Keep the work area clean and well lit, as cluttered and dark areas can result in accidents. Do not operate the sprayer in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- While operating the sprayer, keep children, bystanders and animals away as distractions can cause you to lose control.
- Make sure that the power rating on the plug matches the outlet (230-240V 50HZ).
- Never modify the plug in any way.
- Do not use any adaptor plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock. To prevent the risk of electric shock, when operating the sprayer avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges or refrigerators. Never operate the sprayer in the rain.

INCLUDED ITEMS



- | | |
|---|-------------------|
| 1x Main Lithium-ion cordless knapsack sprayer | 1x Spray handle |
| 1x Spray rod fixed block | 1x 3-holed nozzle |
| 2x M4*12 Screw | 1x Fan nozzle |
| 2x M4 Nut | 1x Metal nozzle |
| 1x Battery pack | 2x Shoulder strap |
| 1x Charger | 1x Transition |
| 1x Spray bar | |

SET-UP

Pull out the sprayer and its accessories from the box, if there is no loss or damage, it can be installed as follows:

1. Install the spray rod fixed block. Put the fixed block in the sprayer through the screw from the bores. Place the nut at the back. Use a cross screwdriver to tighten it at the rear.



2. **Installing the handle:** First, check the spray handle parts if there are missing pieces and position it correctly, then insert the hose into the handle. Then screw them tightly in place.



3. **Installing the spray bar:** First, check the spray bar if there are missing pieces and position it correctly, then insert the spray bar into the handle. Put the spray bar parts in place, then screw them tightly in place.



4. **Installing the nozzles:** Install the transitions onto the top of the spray bar. Then install the nozzle into the transitions. Screw them tightly in place.

These three nozzles have two kinds of transitions.



5. **Installing the battery pack:** First, take the battery pack out of the package to charge it. After charging, open the battery cover, then insert the battery pack into the socket. Then lock the cover.



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6. **Installing shoulder strap:** secure one side of the strap into the bucket at the upper end of the back button. Then through the bayonet, secure the other end of the strap's hook in the bucket bottom hole.



OPERATION

CHECKING YOUR SPRAYER

- Before using the sprayer, be sure that the battery is fully charged and in full power.
- The tank should contain some water first before operating the sprayer.
- Open the back cover of the sprayer, insert the battery pack, and then close the cover.
- Turn the power switch on, then check if:
 - The motor is working properly.
 - Power output indicator light is green,
 - Display is normal.
- Open the handle switch to check that it is working properly. Check the effect of the sprays when using different types of nozzles.
- Check if the water tank has any leakages.

BATTERY

- **Charging:** After buying the sprayer, please fully charge the battery first. General charging time is about 4 – 5 hours. The battery pack has a rechargeable battery protection function that automatically powers off in case the user forgot to turn off the power supply for a long time and damage the battery due to overcharging it.



- Make sure that your home power supply voltage matches with the input voltage charger line (230-240V AC 50HZ); when the charger plug is inserted into the socket, it should lit up with a green light.
- If the charger DC plug is inserted into the battery pack socket, the charger light is red.
- The charger light is red, which means that it is still charging; bright green light means that the battery is full.
- In the process of charging, the battery pack surface releases heat; this is a normal phenomenon.
- This machine has an AS (adjustable speed) switch configuration that switches from high speed to low speed and vice-versa.
- When charging, please use the charger that is made exclusively for this sprayer. User must not use other types of chargers when charging the battery pack.

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- The battery pack has a discharge protection function, which automatically stops charging when the battery is fully-charged. Please turn off the power switch immediately to avoid damaging the battery.
- When in use, user should check the sprayer connections for leaks, first with a water spray test and also when installing the sprayer.
- When adding water, it cannot exceed the safe water level line. Then do test sprays of 10 times or more so that the barrel pressure will increase to the level of the working pressure.
- When spraying is done, pour out the barrel residual liquid, rinse the sprayer, and then dry it out.
- When the sprayer will not be used for a long time, clean the main parts, dry them up, and then placed them in a cool, dry place.
- Turn off the power immediately after each charging, it can prolong the life of the battery.
- If the spray is not going to be used for a long time, clean the various components of the sprayer. Charge the battery pack every 1 – 2 months to ensure that the battery does run out of power, which can extend the battery life.
- This machine is equipped with a three-hole nozzle and a powder surface applicator. Choose different spray nozzles according to different environmental requirements.
- This machine is installed battery door on the back. If the spraying area is larger, can also prepare a battery pack, open the battery door can be replaced.
- Use clean water; this machine is equipped with a special filter.

WARNING!

When the battery is discharging, it will completely go into protection state. Please turn off the power switch immediately. Do not frequently start the sprayer after this, as this could easily damage the battery and shorten its service life.

After discharging for a long time, the temperature of the battery pack will rise. Please let the battery rest for a certain period of time after you charge it.

Avoid water being sprinkled onto the barrel wall, as water can flow along the barrel wall and trickle down to the battery socket position, which might cause the battery pack to short-circuit

MAINTENANCE

DAILY MAINTENANCE AND STORAGE

At the end of each use, clean the sprayer according to the following instructions:

- The sprayer kit must not have any residual powder or liquid.
- Clean the sprayer's surfaces from any stains and dust.
- Use water to wash the sprayer kit, especially at the tips of the rubber pieces.
- Check whether the connection has any water leakages.
- After maintenance, the sprayer should be put in a dry and well-ventilated place, do not expose to damp conditions, and avoid direct contact with sunlight.
- The battery pack should be charged promptly to maintain the battery's life.

LONG TERM MAINTENANCE AND STORAGE

Sprayer should always be well-cleaned and maintained when it is being stored for a long time. In addition to doing general maintenance work, observe the following:

- Chemical residues from water, liquids and powders can corrode and shorten the life of the kit, connecting pipe, the handle, and the applicator. Sprayer must be carefully cleaned.
- Remove the battery pack from the machine and keep it out of reach of children.
- Storage location must be dry and well-ventilated, away from sources of heat/fire so as to avoid overheating and destroying the rubber parts. Temperature should not be less than 0°C to avoid hardening the rubber and plastics, which could accelerated aging.

BATTERY PACK USE AND CARE

The battery of this product is a Lithium-ion battery. Please observe the following instructions when you are operating your sprayer:

- To use the battery on a normal environment, the surrounding temperature should be between 10 – 45°C, humidity between 20 – 85%
- In the course of its use, sprayer should be kept away from sources of heat and high pressure. Do not let children play with the battery. Do not abuse the battery.
- To avoid dangerous situations, do not let the battery short circuit, do not assemble and disassemble the battery pack by yourself. Do not let the battery get wet.
- If the sprayer is not going to be used for a long period of time, please store the battery well. Let the battery be in a state of half-charged, neither fully charged nor empty. In order to avoid the metallic parts from making direct contact with the positive and negative polarities of the battery, please use the non-conductive material to wrap and protect the battery. Store the battery in a cool, dry place.
- In order to avoid dangerous situations and polluting the environment, please dispose of the battery properly. Don't expose the battery to sources of heat/fire, water. Do not discard the battery in the trash along with regular household waste.

STORAGE

The battery must be stored in temperatures between -10°C to 35°C in a clean, dry and well-ventilated room. Battery should avoid any contact with corrosive substances. Keep the battery away from sources of fire/heat. During storage, charge the battery every one to three months.

WARNING!

- **Do not assemble/disassemble the battery pack.**

The battery pack has a protection mechanism and protection circuit can which protects it and the user from danger. Improper assembly and disassembly will damage the protection function and will make the battery emit heat and smoke, as well as deform itself or burst into flames.

- **Do not short circuit the battery.**

Do not let the battery pack come in contact with metallic objects when you are moving or storing the sprayer. If the battery short circuits, there will be a large current flow, which will damage the battery and will make the battery emit heat and smoke, as well as deform itself or burst into flames.

- **Do not expose the battery to heat/burn the battery.**

Heating and/or burning the battery will cause the battery isolator to melt, lose its safety function or lose its electrolyte combustion. Overheating will make the emit heat and smoke, as well as deform itself or burst into flames.

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- **Do not use/store the battery near sources of heat/fire.**

Do not use/store the battery near sources of heat/fire like an oven or in an environment whose temperature is above 75°C. Overheating will cause the battery to short circuit and will make the battery emit heat and smoke, as well as deform itself or burst into flames.

- **Do not expose the battery to water/damp conditions.**

Do not expose the battery to water/damp conditions. Otherwise, it will make the battery lose its internal protection circuit and could result in abnormal chemical reactions. The battery could also emit heat and smoke, as well as deform itself or burst into flames.

- **Do not put the battery near fire or under sunlight when charging.**

It will make the battery lose its internal protection circuit and could result in abnormal chemical reactions. The battery life will also be shortened and possibly fail. The battery could also emit heat and smoke, as well as deform itself or burst into flames.

- **Use only a dedicated charger made specifically for the sprayer.**

Using a non-specific charger for charging the battery could be very dangerous. In normal conditions, charging will cause the battery to lose its internal protection circuit and functionality, and could result in abnormal chemical reactions. The battery could also emit heat and smoke, as well as deform itself or burst into flames.

- **Do not dispose/destroy the battery.**

Do not pierce or insert anything into the battery. Do not use a hammer or beat the battery, or other methods to destroy the battery. It can cause the battery to emit heat and smoke, as well as deform itself or burst into flames.

- **Do not use the battery for other uses other than the sprayer.**

Misuse of the battery can damage the battery's performance, reduce its life, and even cause it to emit heat, smoke, as well as deform itself or burst into flames.

- **Do not directly touch the liquid leaking out of the battery.**

The chemical leakage can cause chemical burns on your skin. If the chemical gets into the eyes, rinse your eyes with water as soon as possible. Do not rub your eyes, and seek immediate medical attention.

TROUBLESHOOTING

- **Does not start up:** The battery pack is inserted incorrectly; power switch is not turned on or hose has inner pressure; if the sprayer is still unable to start, have it checked by an authorised personnel.

- **The switch handle is leaking water:** The switch handle is not tightened enough, which will cause water leakage; replace the new washer screw and tighten the handle.

- **The switch handle is loose:** Sprayer must be unused for a long period of time, liquid inside sprayer is turbid. Remove the switch, then scrape out the rust. Apply a small amount of lubricating oil, then re-install. Tighten with screws.

- **Spraying quality not good:** The spray nozzle is probably clogged or the water filter is blocked with dirt. Clear up the spraying hole and remove any debris blocking the opening; if the filter is clogged, remove the cleaning filter and remove the dirt that is clogging it.

- **Anti-drip failure:** The silica gel plug is loose in the nozzle. Open the nozzle, clean and re-arrange the silica gel plug, then re-assemble the nozzle.

- **Battery pack isn't charging:** Check whether there is a voltage charger; if the charger light is not bright, the charger has gone bad.

- **Charger is good but still isn't charging:** Check the battery pack voltage if it is in a full-power state. If still unable to charge and the battery pack voltage is not in a full-power state, it is not charging the battery pack and may be damaged. Please discontinue using the charger.

BATTERY-POWERED BACK PACK AGRICULTURAL SPRAYER**WARNING!**

Whether the battery pack or charger is damaged, do not open and repair them by yourself. Risk of getting an electric shock due to high voltage. Have it repaired by an authorised personnel.

SPECIFICATIONS

RATED VOLTAGE	DC18V
BATTERY TYPE	Lithium-ion
LITHIUM-ION BATTERY CAPACITY	2150mAh
CHARGER/ADAPTOR INPUT	96~264V, 50~60 Hz AC
CHARGER/NO LOAD VOLTAGE	21V
BATTERY CHARGING TIME	4 to 5 Hrs.
CONTINUOUS WORKING TIME	≥ 110min
WORKING PRESSURE	0.4-0.5Mpa
TANK CAPACITY	4 Gallons (15 Litres)
FLOW RATE	2L/min



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

