

Warranty Certificate (KISANKRAFT COPY)

Important: (1) Normal maintenance and adjustments to the product is the responsibility of the customer. (2) Normal wear and tear is not covered under warranty

(3) Rubber/plastic parts and consumables such as blades, clutch and clutch-bell, sparkplugs, nylon line, air-filters, fuel-filters, oil seals etc. are not covered under the warranty.

No Warranty On Electrical Motor / Electrical Parts / Battery Etc.

Incidental / Consequential Loss: KisanKraft Machine Tools Private Limited or its manufacturers will not be liable for general damages, including bodily injuries, or for incidental or consequential damages including, but not limited to, loss of use, loss of profits, loss of production, expense of substitute equipment or other commercial loss or damage. **Limitation of Liability:** This limited warranty is in lieu of all other express warranties, obligations, or liabilities. Any implied warranties, obligations or liabilities, including, but not limited to, any implied warranty of merchantability shall be limited in duration to the applicable warranty period. Any action for breach of any warranties hereunder, including, but not limited to, any implied warranty of merchantability must be brought within the applicable warranty period.

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What you must do to obtain limited warranty service: To obtain performance of any obligation under this warranty for failure during the applicable warranty period, deliver the defective product, to the nearest Authorized Dealer. KisanKraft Machine Tools Private Limited, its manufacturers and its dealers reserve the right to inspect the claimed defective part(s) to determine if the malfunction is the result of a defect covered by this warranty. Please note that the decision of KisanKraft Machine Tools Pvt Ltd with respect to any warranty claim is final.

Receipt is required for availing warranty services

Jurisdiction: All disputes are subject to Bangalore court's jurisdiction.

This warranty is null & void, if you fail to register the warranty with KisanKraft by sending the KisanKraft Copy with dealer's stamp.

KisanKraft Limited (formerly known as KisanKraft Machine Tools P Ltd)

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Warranty Certificate (DEALER COPY)

Product	Knapsack Battery Sprayer/ Knapsack Manual cum Battery Sprayer	KisanKraft Invoice Date		
Brand	KisanKraft	KisanKraft Invoice No.		
Model		-167,□ KK-KBS-169,□ KK-KBS-183 -187,□ KK-KBS-189,□ KK-KMB-4184		
WARRANTY PERIOD	6 MONTHS	FOR THE SPECIFIED PERIOD FROM THE DATE OF SALE OR DELIVERY WHICHEVER IS EARLIER.		
Dealer's Invoice Date		Dealer's Invoice No.		
Buyer's Info (Name, Address, Phone, etc.):		Dealer's Stamp (Address, Phone, TIN, etc.):		
Buyer's Sign		Dealer's Sign		

What is covered: KisanKraft Machine Tools Private Limited and its manufacturers warrant this product to be free from defects in material or workmanship. All parts defective in material and workmanship are covered.

This warranty will only cover defects arising under normal usage.

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What is not covered: The *warranty shall become null and void* and neither KisanKraft Machine Tools Private Limited nor any of its manufacturers, nor its authorized dealers assumes any responsibility, if the failure was caused by the following:(1) Operation of product with incorrect fuel or lubricants, (2) Incorrect usage of machine or misuse, (3) Lack of maintenance, (4) Negligence, (5) Accident or physical damage, (6) Repairs made by unauthorized parties and/or with unauthorized parts, (7) Improper set up, adjustments, tampering or altered products

Note: The purchase is not contingent upon a product demonstration. The purchaser shall satisfy himself with the product, including any product demonstration or verification of any function, before buying. KisanKraft Limited or its authorized dealers, including online sellers, shall not be liable to give any onsite demonstration after purchase of any of the product

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KisanKraft®

Wide Range of Products for Every Need



For more information give **MISSED CALL: 07676065555**



Many of our products have BIS: ISI certification.



Operation Manual



KisanKraft Limited.

Sri Huchhanna Tower, #4,1st Main,7-A Cross, Maruthi Layout, Dasarahalli, HAF Post, Hebbal, Bangalore 560024,Karnataka,INDIA

◆ Bangalore (HO) ◆ Ahmedabad ◆ Bhopal ◆ Bhubaneswar ◆ Coimbatore ◆

♦ Ernakulam ♦ Guwahati ♦ Shimla ♦ Patna ♦ Hinudpur ♦ Hubli ♦ Hyderabad ♦

◆ Jaipur ◆ Karnal ◆ Kolkata ◆ Lucknow ◆ Nagpur ◆ Pune ◆ Raipur ◆

2178200



KNAPSACK BATTERY SPRAYER KK-KBS-165/167/169/183/185/187/189 KNAPSACK MANUAL CUM BATTERY SPRAYER KK-KMB-4184

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PRODUCT RANGE

KisanKraft has a large range of products to serve the farmers. A list of our products is given below:

Brush Cutters and Accessories	Cultivators and Accessories
Brush Cutter/Power Weeder	Petrol and Diesel
Backpack Brush Cutter	Sprayers and Accessories
Tea Pruner	Battery Sprayer
Pole pruner with Engine	Portable Power Sprayer
Reaper Attachment	Trolley Sprayer
Blades-Circular	Manual Knapsack Sprayer
Blades (2 &3 points)	Manual Pressure Sprayer
Baffle	Rose Cans
Nylon Rope	Hose Crimping Machine
Tap & Go	HTP Sprayer
Chainsaws	HTP Delivery Hose
Petrol Chainsaw	HTP Hose Reel
Electric Chainsaw	HTP Stand
Chain Sharpening Machine	HTP Gun / Lance(Brass Rod
	Knapsack Power Sprayer
Engines and Water Pumps	Mister / Duster / Granuel Spreader
Engine – Diesel- (Horizontal)	HTP Sprayer Set with Diesel Engine
Engine – Diesel (Vertical)	HTP Sprayer Set with Kerosene Engine
Engine-Kerosene	Fogging Machine
Water Pump with Petrol Engine	
Water Pump with Kerosene Engine	Milking Machine
Water Pump with Diesel Engine	Wood Shredder
Hand Tools	Fodder Ensiling Chaff Cutter
Secateurs	Fodder Grinder Chaff Cutter
Folding Saw	Fodder Mini Chaff Cutter
Garden Rake	Harvester
Garden Shovel	Maize Sheller
Hedge Shear	Maize Sheller + Dehusker
Lopper	Maize Combine Harvester
Telescopic Hedge Shear	Onion Digger Carlotti Italy
Telescopic Lopping Shear	Tea Leaf Harvester
Tree Pruner	Sugarcane Combine Harvester
Telescopic Steel Pipe & Fruit Picker Bag	Sugarcane Leaf Stripper
Sheep Shear	•
Garden Tools	Transplanter and Post Hole Digger
Electric Pressure Washer	Paddy Transplanter (2 & 8 Rows)
Hedge Trimmer	Transplanter-Vegetable & Tobacco
Lawn Mower (Electric, Petrol & Manual)	Post Hole Digger(4" to 14"Augers)
Leaf Blower	

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Therefore, even if you are not using the battery for a short period, should charge it once in a month, so as to keep the battery in a good situation.

- > It is normal that the charger is little hot while charging.
- > Overcharge or over discharge will reduce the life of the battery remarkably.
- > Don't connect the battery directly, or it will harm the safety of the battery.

Never try to disassemble and assemble the battery. The battery has the protection equipment and if you alter it, it will make the battery hot and split.

Don't connect the anode and cathode of the battery with any metallic material.

Don't transport battery with a metallic material, which will make the battery leak, hot and split. The light on the charger will turn on if you recharge immediately after charging is over, it becomes normal. But this will result in overcharge and you should avoid the operation. Don't throw the battery into the fire or heat it up, or it will make the battery split and electrolyte splashed.

c) Replace the fuse:

In order to protect the wire and electrical machine, this machine is equipped with a fuse. If a blowout happens due to any reason, please unplug the right and left fixed equipment, take out the assembly of battery, lax the packing belt, remove the battery, open the cap of fuse to replace the damaged fuse with a new one. In addition, please find out the cause of the blowout and find a remedy for it. After this, you could operate it once again. Some causes of blowout:

- > The charger doesn't coincide with the battery or has any other trouble.
- > The pesticide got stuck to the liquid pump.
- > The wire is short circuited due to the damage.
- Incorrect connection.



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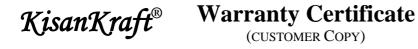
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Our Products	 ◆Chainsaws◆Brush Cutters and Accessories◆Harvesters ◆Engines and Water Pumps◆Hand Tools◆Garden Tools◆ ◆Cultivators and Accessories◆Sprayers and Accessories ◆Transplanter and Post Hole Digger ◆Milking Machines◆
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MAINTENANCE AND STORAGE

Daily maintenance:

The following maintenance should be done after daily job.

- 1. Cleaning the oil and dust on the surface of the machine.
- 2. Clean the chemical tank with clean water and wipe it dry.
- 3. Check if there is any leakage of water or fuel. If there is a leakage, remedy procedures are to be taken.
- 4. Check to see if the screws are loose or lost. If so, please tighten the screw or replace.
- 5. The battery must be charged before storage. Charge before every use in case of power shortage.
- 6. The machine after maintenance should be stored in a place which is dry and has good ventilation. It must be far away from any fire source and sunlight.

Long term Storage:

The machine which is to be stored t for a long time should be maintained as follows:

- 1. Clean the machine surface carefully.
- 2. Discard any medicine in the tank and the pump, clean them with clean water.
- 3. The battery must be charged before storage. If stored for a long time, it should be charged every two months.
- 4. All the plastic parts must neither be exposed to the sunlight nor pressed by heavy matter.
- 5. Cover the machine with plastic dustcoat and store in a dry and clean place.

a) Cleaning

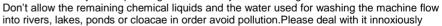
1. Clean chemical container

Discard remaining chemical liquid and wash it thoroughly. Fill one liter of water into the chemical tank and then rinse it slightly.

2. Clean the inside liquid pump

After cleaning the chemical tank, fill with clean water again and start liquid pump to mist so as to clean the whole pipeline.

- 3. Clean the filter net
 - a) Clean the filter net in the mouth of the chemical tank.
 - b) Clean the filter net of suction inside the chemical tank. There is a filter net of suction at the bottom of the chemical tank to avoid the dust coming from the filter net of the mouth of the chemical tank to be sucked into the liquid pump. The filter of the suction is jammed to spray abnormally and will infect the liquid pump greatly. So please take out the filter of suction to clean carefully after operating. Fix it carefully after cleaning.



b) Maintenance of the battery:

In the course of operation, one should understand the frequency and duration of charge according to the actual condition and referring to usual spray frequency and time. It's better to charge when the battery discharged to 60%--70%, the average charging time is about 8 hours. Longer charging time may cause the battery to lose water, hot and reduce the life. Never stock the battery without power. If it happens so and you couldn't recharge the battery on time, it will easily get vitriolized to lead sulphate crystal , which jams the path of the electrical ions, and make the power insufficient. Also the capacity of the battery will get reduced. If the battery is without power for a long time, serious damage will be caused.





Abnormal misting				
Problem		Cause	Remedy	
		Pump valve got jammed	Clean the pump valve	
		Pressure spring is not effective	Replace the pressure spring	
		The diaphragm is not effective	Replace the diaphragm	
		Pump valve got clogged	Clean the pump valve	
		The adjusting valve of pressure got jammed	Clean the valve	
		Inlet nozzle on the tank lid got jammed	Clean the nozzle	
	_	The motor is abnormal	Replace the motor	
	The	Spout wear	Replace	
	pressure does not increase	The pressure switch is not effective	Replace the pressure switch	
	Increase	The tube is jammed or out of shape	Cleaning or tidying up	
		Pressure nut is loose	Tighten the nut	
		Pressure spring is not effective	Replace the pressure switch	
		Low voltage	Charge or replace the battery	
		Charge abnormally	·	
		The battery is abnormal	Replace the battery	
Connote	horao	The charger is abnormal	Replace the charger	
Cannot charge		Connection line is bad	Reconnection	
		Line turned off	Replace or repair the line	
The capacity of the Accumulator cannot recover		Time for charge is not enough	Keep on charging	
		The battery is abnormal	Replace the battery	
		The charger is abnormal	Replace the charger	
		Fuse got melted		
The motor does not work		The pressure switch is not effective	Replace the pressure switch	
		The switch is not connected well	Replace the switch	
		Motor runs heavily	Replace the motor	

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KNAPSACK BATTERY SPRAYER KK-KBS-165/167/169/183/185/187/189 KNAPSACK MANUAL CUM BATTERY SPRAYER KK-KMB-4184

BEFORE GETTING STARTED

Thank you for your purchase and use of our products. In order to avoid accidents or injury, **please read this manual carefully** before using. After reading, preserve it for further reference. Please make a note that this product is always improving, maybe the machine you buy does not coincide with the manual, exactly.

APPLICATION

The knapsack electrical sprayer is the new model electrical sprayer developed by our company. They have a reasonable design, beautiful outlook, reliable character and are economical products. They have advantages of safety, trustiness, energy saving, good misting effect, the high use ratio of pesticide, and wide range of usage. It is suitable for use in prevention of plant diseases and pests, such as cotton, wheat, paddy, fruit trees, and tea trees and so on. It can also be used for the prevention of the pests of garden flower, epidemic prevention near hotels, stations and other public places and poultry.

Note: The model KK-KMB-4184 can be operated both manually and through battery.

FEATURES

- Our new model knapsack battery sprayer has attractive features like telescopic lance, speed controller and auto- cutoff pump.
- Some of the sprayer models are equipped with a **mobile charger**, **mobile connector** and a **LED light** for visibility during night operation.
- > The machine adopts subminiature direct current as the power, hence safe and reliable.
- > The handgrip adopts linkage-control motor switch, making the operation easy and safe
- > The dissepiment pump of the machine is bi-directional, simple structure and easy maintenance.
- > The machine has a high pressure, heavy flow, high spraying effect and good effect in prevention of pests.
- The shape of the nozzle of main spraying parts is F, so it has a broad width and high effect. The overall parts of dissepiment pump are made of plastic, so it has the property of low weight and anti-corrosion.

SAFETY INSTRUCTIONS

- 1. Read this manual carefully, be sure you understand how to operate this machine properly before you use it.
- 2. Protective Clothing:
 - Wear flange cap.
 - Wear dirt/fog-proof glasses.
 - Wear gauze mask.
 - Wear long gloves.
 - Wear coat guarding against poisons.
 - Wear boots.
- 3. Following personnel should not use the machine:
 - Mentally challenged.
 - Drunk.Under the age of 18
 - Under the age of 18 or older people.

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Cap

Glass

Gauze mask

Clothing

Gloves

Boot

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KNAPSACK BATTERY SPRAYER KK-KBS-165/167/169/183/185/187/189 KNAPSACK MANUAL CUM BATTERY SPRAYER KK-KMB-4184

- Person with no knowledge of the machine.
- > Tired person or patient and others who cannot operate the machine normally.
- > A person who has just exercised strenuously or has not slept enough. Women feeding breast milk to the baby or is pregnant.
- 4. Recharge
 - If the wire/ plug is bad, or the socket is loose, don't use it as there is a risk of an electric shock and even fire.
 - > Don't pull the plug with wet hand to avoid electric shock.
 - If the plug wasn't inserted into the socket completely, there is a danger of experiencing an electric shock, and even a fire.
 - > Please clear away the dust on the plug. The dust also can cause a fire.
 - Don't lay this machine in a wet or a dusty place to avoid electric shock, heat, split and so on.
 - Don't charge above the set time, or it will cause a battery leak, heat split and so on.
 - When storing the machine avoid direct sunlight, hot environment and avoid things that emit heat of their own. Otherwise, it will speed up the aging of the battery, and may cause weeping, emit heat, craze, or strike fire etc.,
 - Don't charge when the temperature of the battery is low or in the cold weather, as it may cause the battery to leak and will shorten its life.
 - > Don't throw the battery into the fire or heat as it will split the battery.
 - > If you find any battery leak, color change and distortion, don't use it any more.
- 5. Spraying
 - It is fine to carry out an operation during cool weather with little wind. For example, early in the mornings or in the late afternoons as this can reduce the evaporation and drift of chemicals and improve the protective effect.
 - > The operator should move windward.
 - If your mouth or eyes are spattered with chemicals, wash them with clean water and then visit a doctor.
 - If the operator has a headache or dizziness, should stop working at once and consult a doctor immediately.
 - For the operator's safety, misting/dusting must be carried out strictly according to the instruction of the chemicals and agricultural requirements.
 - Spray over, according to pesticide manual to clean out any residual spray mixture in chemical tank.
 - > After spraying always wash your hands and face thoroughly.
- 6. Warning:
 - > Check if the parts in the package coincide with the packing list.
 - The new machine must be charged before using. It is normal for a new machine and the machine stored for a long time to charge incompletely. It will be charged full after releasing repeatedly.
 - Don't charge in a wet room or with wet hands, as you may experience an electric shock.
 - > Please be sure to charge after using, and charge fully before storing.
 - Don't use it to spray corrosive liquids, coal, oil and other volatile liquid in order not to catch a fire or get any burns.
 - It will harm persons and crop if the chemical liquid is mixed improper. Please read the introduction of pesticide before using it.
 - It is prohibited to put the pesticide into other containers in order not to prevent any accidental consumption.



Problem	Cause	Remedy
The sprayer has Leakage and is not spraying well.	Sealing plate is damaged or not wrenched firm	Replace the sealing plate or wrench firm
The operation arm exerts more pressure while pumping	Spray head or filter block up	Clean the filter and spray head, add Vaseline to the activating parts.
Need to apply less pressure while pumping the operation arm feeling	Abrasion of the bowl or the sealing ball.	Change the bowl or sealing ball.
The operation arm exerts no pressure while pumping	Sealing ball is missing or removed	Fix the sealing ball properly

TROUBLESHOOTING - BATTERY SPRAYER

	Abnormal misting			
Problem		Cause	Remedy	
		The power switch is in "0"	Switch to "— "	
		The plug is lax	Reconnection	
		The Switch got damaged	Replace the switch	
		The Line is cut off	Replace the line or Reconnect it	
The moto	or does	Fuse got melted	Replace the fuse	
Not work		The motor is cut out	Replace the motor	
		The motor is burned to damage	Replace the motor	
		The voltage of the battery is low	Charge or replace the battery	
		High pressure on pipe	Open the handle Switch	
		The pressure switch is not effective	Replace pressure switch	
		The nozzle got clogged/blocked	Clean the nozzle	
		No medicine liquid in the tank	Fill chemical Liquids	
The motor is running	No spraying	The air valve of the chemical tank lid got clogged	Clean the air valve	
		Pump valve got clogged	Clean the pump valve	
		The absorbing filter got jammed	Clean the filter	
		The nut on the pressure switch is loose	Tighten the nut	

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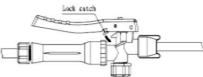
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KK-KMB-4184

The liquid pump must avoid idler revolutions in order not to harm it. **Starting:**

Adjust the switch to the "-". Grasp the handlebar, open the check valve and then spray. **Stopping:**

- Adjust the switch to "o", the liquid pump will stop.
- Release the handlebar to stop the operation.



When the charge in the battery is low, the water flow will gradually reduce, indicating a recharge. The battery doesn't have to drain completely to recharge each time, it can be recharged at any moment and even can saturate, which doesn't affect its life.

After spraying, expel out the remaining liquid, wash the inside wall of the chemical container with clean water. Then add clean water into the chemical tank, start liquid pump, rotate for 2~3 minutes. Make sure that the spraying pipe, inside the pump and the nozzle are washed clean, then swill the liquid in the chemical tank. Then, restart the liquid pump to expel out the remaining liquid completely. After that, the power switch is adjusted to place "0".

TECHNICAL SPECIFICATION

Model	KK- KBS- 163	KK- KBS- 165	KK- KBS- 167	KK- KBS- 169	KK- KBS- 183	KK- KBS- 185	KK- KBS- 187	KK- KBS- 189	KK- KMB- 4184
Chemical Tank Capacity	16L				18L				
Battery	DC12V- 8AH			DC12V - 12AH	DC12V - 8AH		DC12V - 12AH	*DC12V	
Charger	1.0A		1.7A	1.0A		1.7A	1.0A		
Water Flow	3.1 LPM		3.6 LPM	3.1 LPM		3.6 LPM	3.1 LPM		
	Auto-cut off pump, Speed controller, SS Telescopic lance								
Additional features		LED Light and mobile charge r	LED Light	LED Light and mobile charge r		Round LED Light and mobile conne ctor	LED Light	Round LED Light and mobile conne ctor	nozzle , LED Light

Note: Battery is not included in KK-KMB-4184. Customer has to purchase that separately.

* Batteries with 4 AH, 6 AH and 8 AH are available with us. Contact your dealer for further details.



KNAPSACK BATTERY SPRAYER KK-KBS-165/167/169/183/185/187/189 KNAPSACK MANUAL CUM BATTERY SPRAYER KK-KMB-4184

- In order to avoid incidents incurred by clinging to the pesticide, the operator must wear flange cap, fog-proof glasses, gauze mask, long gloves, and 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 change clothes every day within the period of operation.
- > Don't let the deposit or the water used for cleaning the machine flow into river, lake, pond, in order not to avoid pollution.
- > The machine should cleaned completely, be dried and charged fully after using, and then should be kept in a cool and windy place.
- 7. Please follow the safety instructions given in this manual.
- 8. Everyone has the duty to protect the environment and save energy!
- 9. While you strictly follow the rule of operating in this manual, you should do set below:
- 10. Don't use the virulent pesticide prohibited by the government.
- 11. Don't use the machine to harm the environment and public profits.
- 12. Please use the machine cautiously without affecting the ecological balance.
- 13. Don't let the deposit pesticide flow arbitrarily in order to avoid the environment pollution.

MAIN CONSTRUCTION

This machine mainly has five parts.

The dissepiment pump: It is the core part of this machine. It influences the property of the whole machine. The power of the machine comes from DC motor which keeps the membrane running. There is a press –control switch on the dissepiment pump, if the operating pressure exceeds the rated pressure, the pump power will be shut off automatically to protect the motor. The dissepiment pump connects with tank by pump holder.

Battery: The specification is DC12V7AH, fixed in the sprayer. The battery is held on the battery seat by the belt. The battery is charged by the charging-line combination, also the fuse on the charging-line combination protects the motor.

Chemical Tank: It is filled with liquids. The tank's design is based on the shape of the person's back, so it is comfortable to wear on the back.

Spraying Part: It accomplishes the spraying work. There is a clique core switch, non- omit and is easy to operate. To start working, turn on the power switch and press the handle switch, the pump will shut down automatically if the handle is released. If you repress the handle, it works again.

Knapsack system: It is composed of straps and pad used for wearing on the back

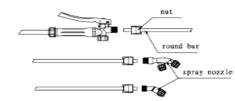
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ASSEMBLY INSTRUCTIONS

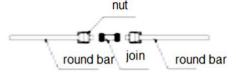
1.	Cut off the plastic cap	
2.	Insert the rocker into the hole at the bottom of the tank	3Ph
3.	Turn the rocker down towards you and locate the pump handle retaining clip here	
4.	Push the rocker retaining clip onto the rocker, ensuring that the notch goes into the hole	
5.	Push the long end of the connecting rod through the pump handle, retaining loop fitting and the holes on the top of the plunger	135
6.	Insert the split pin.	THE.

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d) If you want to spray higher, you could connect two spraying poles, which will increase the total length.



e) This machine has three different kinds of nozzles. You could use the nozzle according to different conditions.

Model of the Nozzle	Diameter of the Nozzle (mm)	Flow (L/min)	Working Pressure (MPa)	The amount of Nozzle
Taper Nozzle	1.0	0.8	0.15~0.35	1
Sector Nozzle	0.7	0.48	0.15~0.4	1
F Nozzle	1.5	1.2	0.15~0.25	2

Note: The data in the table is the trial value of our company and not the confirmed value. The amount of spraying mist and working pressure may change with the environment.

4. Add Liquids

- a) Please keep this machine on the actinic ground when adding liquids.
- b) Please use the filter screen when you are adding liquids. The filter screen can protect the liquid plug from jam, for the jam can result in abnormal jet.
- c) Please be slow when adding chemical in order to avoid overflowing. Once overflowed, please wipe it dry and clean with gauze so that the chemical doesn't flow into the battery and electric pump. The chemical liquids, can corrupt the electric equipment and shorten the life of this machine.
- d) It is strictly prohibited to use solvent easy to curdle when meeting heat for the heat generated by the working of liquid pump is easy to curdle that solvent so that the liquid pump doesn't work.

Note:

- > Please make sure that the switch of electric power is open before adding the chemical.
- There is a scale on the side of chemical tank, please add chemical liquid according to the quantity of work.
- > It is strictly forbidden to spray highly acid liquid, paint and volatile chemical solvents.

Warning:

Please follow the chemical solvent recommended by the manufacturer to mix chemical liquid, or it will harm crops and body.

Be sure to mix the chemical liquids in proper proportion in other containers. The filter must be used when filling the chemical liquids into the chemical tank.

Please fasten the chemical cap after filling is completed.

5. Misting

Warning: Be sure to check the battery after adding water into the chemical tank.

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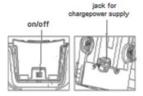
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 Push the other end of the connecting rod through the hole on the rocker 	
8. Fit the washer and the split pin	
 Screw one end of the hose onto the top of plunger, It is for sprayer manual operate 	
 Screw one end of the hose onto the tank pipe, It is for battery power operate. 	e g.
11. Screw the other end of the hose onto the bottom of the switch	M

When charging, you only insert the output of the charger to the jack and then connect the input with 220V alternating current. The signal light on the charger is red during normal charging. It will change to green when it is fully charged.



The conditions for using the charger:

Standard Voltage Input Frequency Using Temperature Storing Temperature Using Place AC100V~240V 50/60Hz +10°C~+30°C -10°C~+40°C Only inside

- > The time of charging for the new machine or a machine stored for a long time must be 24 hours.
- > Don't let the switch in the place of "-" while charging.
- > Please pull out the wire of the charger from the jack after the charging is completed.
- An Improper battery wire connection will burn the battery and charger. The red wire should be connected with the red end of the battery.
- > Don't charge in a wet room or with wet hands, as it may cause an electric shock.
- Please use the special charger for this machine in order to avoid fire. In addition, it is prohibited to charge any other electrical machines with the special charger of this machine or as a power source.
- > Please pull out the wire of the battery from the socket once the charging is completed.
- Don't let this machine exposed to the sun, high temperature conditions and the things radiating heat, which may lead to ageing of the battery, battery leakages, radiate heat, split and even fires.
- If you find the charger abnormal, pull out from the plug immediately in order to avoid electric shock, radiating heat and causing fires.
- Don't adopt generator as the electrical source of charging, which may destroy the charger. Don't pull the wire off the charger forcibly.
- Please clean the electrical pick off of the battery with dry cloth. Bad connection will cut the power supply or may result in charge failure.
- Be sure of the safety, please store this machine in place out of reach of children and infant in order to avoid an electric shock.

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If the battery of this machine needs to be replaced, it must be confirmed by the company. The disabled battery couldn't be thrown away anywhere. Please send it into the proper recycle center which can deal with it.

3. Connection of the spraying parts:

- a) Fix the spraying pole in the place as shown in the figures.
- b) Insert the spraying pole into the switch and fasten the screw cap. **Caution**: Don't fasten the nut with the pliers, or it may harm the nut.
- c) Hold the knob assembly with one hand and adjust the direction of the nozzle by holding the spraying head with the other hand.

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 Screw one end of the lance onto the top of the switch. Attach the nozzle of choice to the other end of the lance



OPERATION-MANUAL SPRAYER

Structure

The machine is composed of the following:

- 1. Container of liquid
- 2. Pump and air chamber
- 3. Spraying system (including rubber hose and components, switch, sprayer spindle and head)
- 4. Operation arm and components
- 5. Backpack belt system

Characteristics

- 1. The external form is an imitation of the human backs curve and the combination of the air chamber and pump located in the liquid container makes the whole structure compact and safe with no leakage.
- 2. The operation arm uses an action connecting style so that it can be installed on both sides. It is convenient and quick in action and the user can accordingly to his habit and usage operate it mutually changeable with the right or left hand reducing the labor intensity.
- 3. Various spray heads can be fitted for use in different tasks, to achieve a fine spray and sprinkle effects.
- 4. The chosen materials for the machine are resistant to acid, alkalinity and corrosion. The machine is sealed hermetically and is very durable.

Working principle

By swinging the operation arm and components, the pump bowl rises up and down which allows the sealing ball to turn on and off. This in turn makes the pressure in the air chamber rise up and down which then forces the medicinal liquid into the chamber, the liquid can then go through the spraying system and spurt out as spray.

Operation

- 1. After the packing box of new machine is opened please check all the parts conform to the packing list.
- 2. Then assemble the machine as per the structure sketch. Before use please wrench the cap off the container.



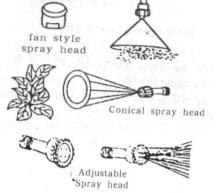
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- 3. Pour the compounded medicinal liquid through the filter into the container slowly, then close the cap tightly and put the machine on your back.
- 4. After the pressure in the air chamber is boosted swing the operation arm and then press the switch component to begin spray operation.
- 5. It can be point-spray or it can be continuous spray. At the same time adjust the nut according to the requirement of the crops in order to improve the quality of spraying.
- 6. Choose the different spray-head for spraying correctly. Along with the machine 3 kinds of spray heads are delivered.

Fan style spray: This sprays evenly and is suitable for spraying on low and short stalked crops and for the spraying of weed killer. Keep the spray head stable and spray in the same direction as the wind.

Conical spray head: This can be used for spraying pesticide and insecticide, to prevent diseases and kill insects. Spray in the same direction as the wind.

4 Hole adjustable spray: This can be used for spraying on the high stalk crops and fruit trees. Its shortcoming is the serious running off the medicinal liquid.



OPERATION-BATTERY SPRAYER

1. Introduction to the function:

As shown in the figure, Control system is installed on one side of the cover: Voltmeter, Speed Regulator, Charging Plug and a Power Switch.

Voltmeter Indicate over-discharge, over-charge and normal service condition.

Speed Controller : Adjust the rotating speed of the pump to make the pump work stably, achieving the result of spraying stabilization.

Charging plug: Linked with charger to transmit energy to the battery.

Power switch: Control the connection between the power and diaphragm pump. **Under voltage protector (optional)** : Linked with speed regulator to protect the battery. When the battery voltage reached the preset protecting voltage 9.5-10V, buzzer rings indicating that you should stop working to charge battery for maintenance

- 2. Charging the Battery:
 - The new machine must be charged before using.
 - If a machine is stored for a long time, it must be charged before use.
 - Charging with the special charger

Please untie the belt and back mat to disclose the battery completely. There are two plugs on the plate, one is connected to electric power, usually there is a plug connected to an electric pump to supply power, and the other jack is used to connect with the plug of the charger.