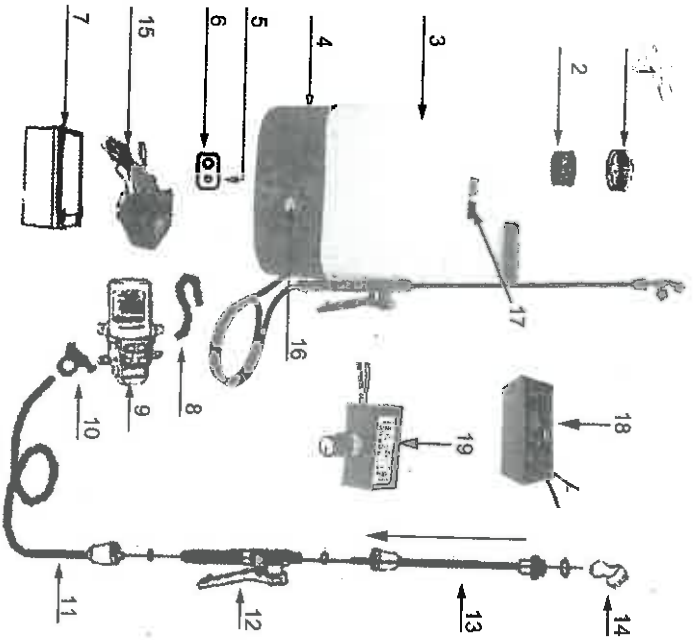


STRUCTURE SKETCH AND PARTS LIST



PARTS LIST			
S/N	Description	S/N	Description
1	Filler Cap	11	Hose
2	Filter	12	Trigger
3	Tank	13	Lance
4	Base	14	Nozzles
5	Socket	15	Charger
6	Power Switch	16	Voltmeter
7	Battery	17	Belt
8	Inlet Tube	18	Alarm
9	Mini-Pump	19	Regulator
10	Tube Clamp		

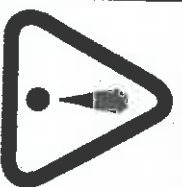
NOTE-----The sprayer fix with an under-voltage alert circuit. An alarm will sound when the voltage of the battery decreases to 10.5 Volts. This will protect the battery and remind the users to recharge in time.

NOTE-----This is optional parts. It can adjust the water flow through control the voltage of power.

# Knapsack Electric Sprayer Operating Instructions



Please Read and follow the Instruction Manual before usage



**Warning!!!**  
This sprayer is designed to apply chemicals that may be harmful and could cause serious personal injury if careless operation. The user should wear masks and gloves to protect skin. Strict compliance with safety instructions of pesticides is required.



**Dear User,**

Thank You for purchasing intelligent battery electric sprayer. To know and use this product better, please read through this manual carefully before use. Besides, please pay enough attention to the warnings and operate the products strictly according to the manual.

If there is any problem with the sprayer, please contact with the local service center or franchiser. Surely, you can also contact with us directly and we will provide satisfying service.

We highly appreciate our old and new customers, and we will continue to work hard to make our best products to serve you.

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### NOTE

- PLEASE ASSEMBLE THE SPRAYER PARTS ACCORDING TO SKETCH. CHARGER 10-15HOURS UNTILL THE INDICATOR LAMP OF CHARGE SHOW GREEN. DURING CHARGING PLEASE PUT OFF THE POWER SWITCH.
- PLEASE TIGHTEN FILLER CAP AFTER FILLING THE LIQUID INTO TANK. MAKE SURE NO LIQUID WILL BE OUT DURING OPERATION.
- WHEN RELEASE THE SWITCH HANDLE, THE SPRAYING WILL STOP AUTOMATICALLY. THE PUMP ALSO STOP WORK ACCORDINGLY. WHILE SPRAY OUT THE LIQUID OF TANK, THE PUMP WILL CONTINUE TO WORK WITHOUT WATER. SO PLEASE REMEMBER TO CLOSE THE POWER SWITCH. THE SWITCH HANDLE FIX AUTO-LOCK KEY TO REDUCE THE WORK OF USERS.
- THREE OR FOUR KIND OF NOZZLES ARE SUPPLIED FOR THE SPRAYER. THE FAN NOZZLES DESIGNED FOR SPRAYING PESTICIDES. FOLLOW THE WIND AND MOVE IN A PARALLEL MANNER ONE SIDE WHILE SPRAYING. THE CONE NOZZLES IS BEST FOR CONTROLLING OF PESTS. FOLLOW THE WIND AND MOVE IN A CROSS MANNER ON ONE SIDE WHILE SPRAYING. THE MULTIHOLE NOZZLES IS BEST FOR SPRAYING OF HIGH PLANTS AND FRUIT TREES. HOWEVER IT MAY RESULT IN SIGNIFICANT LOSS OF PESTICIDE, SINCE IT COVERS A WIDER AREA.
- THREE FILTER PREVENT FOREIGN MATTER OR PARTICLES FROM CLOGGING THE NOZZLES. THE FILTER IS UNIQUELY DESIGNED TO ALLOW EASY DISMANTLING AND CLEANING.
- THIS SPRAYER HAS AN UNDER-VOLTAGE ALRET CIRCUIT. AN ALARM WILL SOUND WHEN THE VOLTAGE OF THE BATTERY DECREASES TO 105 VOLTS. THIS WILL PREVENT OVER-PRESSURATION.

### TROUBLESHOOTING

--DC motor doesn't work --Automatic stop during spraying	.power cable come off .no power or loose plug .broken power switch	.Dismantle the base to connect cables and check plug-in .Changing .Replace power switch
--No water Sprays from nozzles --Instable water pressure	.Jammed Nozzles Air in hose .Jammed pump Broken hose	.Clean nozzles .Check hose,tighten,release air .Check pump,clean foreign matter. .Replace
--Lower Pressure and smaller flux	.Jammed filter in hose .Jammed filter in sprayer switch .Lower voltage	.Clean filter .Clean filter .Replace
--Poor atomization	.Jammed nozzles Broken o-ring .seal its upside down Filter screenwas clogged Leakage occurred to tubes at joints Battery short of power Air remained in the pump	.Remove foreign matter .Replace o-rings .Correct by reversing Clean with clear water .Tighten screw Alarm maybe out of order, please it, charge. Remove the nozzle or extension rod to discharge the air.
--Pump motor stop after starting a moment while stoping spray	.Foreign matter in the switch Rubber seal loose Leakage at the pump	.Open and clean .Tighten .Tighten
--Abnormal sound in the pump	.screw loose	.Tighten Screw
--Voltmeter dont work	.cable come off .broken	.Reconnect cable ( tell +-) .Replace

## POINTS FOR ATTENTION AND WARNING

WARNING!!! THIS PRODUCTS IS DESIGNED TO APPLY CHEMICALS THAT MAYBE HARMFUL AND COULD CAUSE SERIOUS PERSONAL INJURY IF INHALED OR BROUGHT INTO CONTACT WITH THE USER. FAILURE TO READ AND FOLLOW OWNER'S MANUAL INSTRUCTIONS BEFORE USE AND/OR MISUSE OF THIS PRODUCT COULD RESULT IN EXPLOSIVE FAILURE WITH MAJOR INJURIES.

1. DO NOT USE INSOLUBLE POWDER WITH THIS SPRAYER. THE SOLID MATTER IS EASY TO BLOCK THE SCREEN AND HOSE TO PUMP. DO NOT OPERATE WITH STRONG ACIDS, STRONG BASED OR FLAMMABLE LIQUIDS. DO NOT USE HIGH-RESISTENT AND VERY TOXIC PESTICIDES FOR PEST CONTROLLING PURPOSES ON VEGETABLES, FRUIT TREES, AND PLANTS.
2. DO NOT OPERATE SPRAYER IN TEMPERATURES EXCEEDING 45°C OR LOWER THAN -10°C
3. TRIAL SPRAYING WITH CLEAN WATER IS NECESSARY FOR INTAL. US TO MAKE SURE NEIGHT LEAKAGE OR POOR ATOMIZATION OCCURS.
4. THE BATTERY HAS BEEN CHARGED BEFORE BEING DELIVERED. HOWEVER, IT WILL SELF-DISCHARGE IN THE COURSE OF TRANSPORTATION AND STORAGE. ADDITIONAL CHARGING BEFORE INTAL USE IS REQUIRED.
5. TRY TO AVOID OPERATING THE SPRAYER WITHOUT WATER IN IT. THIS MAY DAMAGE THE DIAPHRAGM. DO NOT PLACE THE SPRAYER UPSIDE DOWN. OR THE BATTERY MAY BE DAMAGED.
6. IN CASE A NOISE IS HEARD FROM INSIDE THE SPRAYER, OR POOR ATOMIZATION OCCURS AFTERLONG PERIODS OF USE, THE SPRAYER MAY HAVE A LOW BATTERY VOLTAGE AND REQUIRES CHARGING. CONNECT THE PLUG TO AN ELECTRICAL OUTLET WITHOUT REMOVING THE BATTERY FROM THE SPRAYER. A CHARGING TIME OF AT LEAST 8HOURS IS REQUIRED. THE CHARGER SHOULD BE PLACED IN A DRY, WELL-VENTILATED SAFE PLACE.
7. UNAUTHORIZED REPLACEMENT OR REMOVAL OF THE CHARGER IS PROHIBITED. THIS IS PROFESSIONAL CHARGER FOR OUR SPRAYER ONLY. DO NOT USE THE CHARGER TO OTHER EQUIPMENTS. TO AVOID THE DAMAGE RESULT FROM.
8. IT IS STRICTLY PROHIBITED TO KEEP THIS SPRAYER NEAR FIRE OR EXPOSE BASE TO WATER OR IMMERSE THE SPRAYER IN THE WATER TO CLEAN OR TO FILL IT WITH WATER.
9. FOR SHORT-TERM USE, CHARGING IS USUALLY REQUIRED. FOR LONG-TERM STORAGE, REGULAR FULL DISCHARGING AND RECHARGING ARE REQUIRED. WITH AN INTERVAL OF MIN TWO MONTHS TO ENSURE THE SERVICE LIFE OF BATTERY.
10. BEFORE CHARGING, PLS MAKE SURE TO CHECK THE INPUT AC IS CONSISTENT WITH THE CHARGER INPUT VOLTAGE.
11. WEAR A MASK AND GLOVES TO PROTECT SKIN AND TO AVOID DIRECT CONTACT WITH PESTICIDES OR HARMFUL LIQUIDS. DO NOT SPRAY PESTICIDES AGAINST THE WIND OR SPRAY TOWARDS HUMANS, ANIMALS OR FOOD. DO NOT OPERATE FOR EXTENDED PERIODS OF TIM UNDER HIGH TEMPERATURES.
12. AFTER USE FOR HALF A YEAR, YOU SHOULD DISMANTLE THE BASE AND CHECK WHETHER THE SCREW IS LOOSE. IF IT IS, PLEASE TIGHTEN THEM. ALSO BE SURE TO SWITCH OFF POWER BEFORE STORAGE.
13. AFTER SPRAYERING, PLEASE MAKE USE TO TREAT THE WASTE ACCORDING TO THE MANUAL PROVIDED BY THE PESTICIDE MANUFACTURE TO PROTECT THE ENVIRONMENT.
14. WHILE CHARGING THE SPRAYER, USUALLY THE POWER SWITCH SHOULD BE REQUIRED TO TURN OFF IN ORDER TO SAVE THE ELECTRICITY AND DECREASE THE HARM OF PUMP FOR OPERATION WITHOUT WATER. IF USERS WANT TO KNOW WHICH LEVEL OF POWER CAPACITY REACHED, IT CAN TURN ON THE POWER SWITCH AND WATCH THE DISPLAY OF VOLEMETER ACCORDINGLY.
15. SOMETIMES THE CHARGER DOESNT SHOW GREEN LAMPS AFTER LONG TIME CHARGING, PLS TAKE OFF THE SOCKET AND PLUG IN AGAIN. THEN IT WILL SHOW GREEN LIGHT FOR FULL CHARGING. (THE REASON IS THE VOLTAGE OF BATTERY COULDNT MAKE REACTION FROM THE CURRENT)

## THE STRUCTURE AND WORKING PRINCIPLE

STRUCTURE: THIS SPRAYER CONSISTS OF A SPRAYER TANK, BASE, BATTERY, MINI-PUMP, CHARGER, SPRAYING SYSTEM, ALARM SYSTEM, RUBBER TUBES, SWITCH, SPRAYING ROD, NOZZLES AND SHOULDER STRAP ETC.

THE BATTERY SUPPLY THE ELECTRICITY TO START THE PUMP WORK, THE PUMP BRING OUT A HIGH PRESSURE TO SPRAY THROUGH CONCERNING SPRAY SYSTEM.

## TECHNICAL PARAMETERS

1. TANK CAPACITY: 15LITERS/16LITER/18LITER/20LITER/25LITER
2. CHARGER: INPUT AC110V-220V-50HZ/60HZ  
OUTPUT DC 12V 1.2A
3. PUMP: HIGH PRESSURE DIAPHRAGM PUMP
4. ELECTRIC POWER: 12V 35W DC MOTOR SPEED: 2800-3200R/MIN
5. DC MOTOR DIAPHRAGM PUMP: 12V 1.4A-2A (0.10-0.45MPA)
6. USUAL STORAGE BATTERY SPECIFICATION: 12V-8AH, 9AH, 12AH (MAINTENANCE FREE)
7. SPRAY CAPACITY: SINGLE NOZZLES SPRAY: 1.5-1.6L/MIN; DOUBLE NOZZLES SPRAY: 1.8-3.0L/MIN
8. CONTINUOUS WORKING TIME: 8AH BATTERY: 4.5HOURS; 9AH BATTERY: 6.5HOURS; 12AH BATTERY: 10HOURS. (THIS IS BASED ON SINGLE JET NOZZLES SPRAYING, LONGER TIME IF DOUBLE NOZZLES SPRAYING)
9. RECHARGE TIME: CONTINUOUS 10HOURS OR ABOVE. REGULAR FULL DISCHARGING AND RECHARGING ARE REQUIRED. WITH AN INTERVAL OF MIN TWO MONTH.

## FEATURES

1. SMOOTH AND STREAMLINE APPEARANCE. THE SPRAYER IS ERGONOMICALLY DESIGNED TO CONFORM TO THE HUMAN BACK, MAKING IT EASY TO CARRY.
2. THE SPRAYER COMES WITH A MINI-DIAPHRAGM PUMP WHICH IS COMPACT IN SIZE, LIGHT-WEIGHT, CREATES HIGH PRESSURE AND HAS AN EXTENDED SERVICE LIFE. IT FEATURES A PRESSURE PROTECTION SWITCH (MICRO SWITCH) TO PROTECT THE BATTERY. THE SUPPLIED CHARGING SOCKET CAN BE USED AS A 12 VOLT POWER SUPPLY IN ADDITION TO A CHARGING UNIT.
5. SPECIAL CHARGER FEATURES INTELLIGENT THREE SECTION CHARGING (CONSTANT CURRENT/CONSTANT VOLTAGE/MAINTENANCE) OR TRADITIONAL TRANSFORMER CHARGER. THE INDICATOR LAMPS OF CHARGER: RED-CHARGING; GREEN-CHARGED/STAND-BY).
6. THE SPRAYER IS A HIGHLY-EFFICIENT SPRAYER, SUITABLE FOR CONTROLLING PESTS IN CROPS, FLOWERS AND GARDENS. EPIDEMIC CONTROLLING OF LIVESTOCK AND POU TRY HOUSES AND SANITATION OF PUBLIC PLACES. THIS SPRAYER SAVES LABOR TIME AND ATTAINS 3 TO 4TIMES MORE EFFICIENCY THAN A MANUAL SPRAYER. THIS SPRAYER CAN BE OPERATED CONTINUOUSLY FOR UP TO 4-5-10 HOURS AND SPRAY 400LITER -600LITER OF LIQUID AFTER ONE FULL CHARGING WHICH CONSUME ONLY 0.3KWH -0.5KWH OF ELECTRICITY.
7. HARD TO LEAK, BETTER AIRPROOF, COMPARING WITH GASOLINE MACHINE SPRAYER, NO EXHAUST GAS/LOW NOISE, NO ENVIRONMENT POLLUTION ETC...

## OPERATION

BE SURE TO CHARGE THE BATTERY SUFFICIENTLY PRIOR TO THE OPERATION, FILL THE SPRAYER WITH PREPARED LIQUID THROUGH THE FILTER AND CLOSE THE SPRAYER COVER. TURN ON THE POWER SWITCH AND GRIP THE SWITCH HANDLE TO START SPRAYING. EIGHTER INSTANTN OR CONTINUOUS SPRAYING IS ALLOWED.