Remarks	-019-	ing"	Description	.MR
	2 1 1	SHIP!	Sprayer Body Incentice and	
* ABLIBERT		(Pela)	User's Manual	2
refescopie rods		Pers	Four hole adjustable	
Lesbage olimes			sispenying Gozzletstop bns	
husoqtuq-ithus:	4.1	Pe(s)	Fast spraying nozzles out	
spraying		Rejeri	30" Dayi to spraying alway	
nozzles are		Pers)	split coupling	
available for	15	Person	april spray/boom O-ring	†n
purchasing			ol despectable	
separately	1	P#(~)	STOCKENG CO.6 X3	
Poor atomics of		(s) 34 kg	op 5×1.9 on took	
			Seal Gasket OktoX=11,X2	
		Possi		
		Pe(s)	Fase passo shortasm	12

SX-MD16E SX-MD18E Electric Sprayer SX-MD20E

User's Manual

SX-MD16E. SX-MD18E Electric Sprayer SX-MD20E

User's Manual

Notice to Users

The User's Manual is a part of the Sprayer. Please keep it in good conditions. In order to utilize and maintain the product in good manner, please read the User's Manual carefully before operation. If you have any doubt, contact the supplier.

The Sprayer shall be operated, maintained and repaired by persons who are familiar with its performance and know how to operate in a safe manner.

The manufacturer shall not be liable for decreased reliability, machine damage and human injury arising from unauthorized modification of the Sprayer.

its high pressure, uniform atomization, high penetration

and Miachment of droplets

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unauthorized modification of the Sprayer. 23

I. Product Overview Senting In Supplies II

This Sprayer is one of our electric sprayer series elaborately designed to reduce labor and increase spraying performance in a bid to meet the demands of market. Thanks to its novel design, unique appearance, smooth outline, safe and high-performance operation, in addition to easy carrying either by dragging or back-mounting, the Sprayer is a an ideal upgraded and updated product of traditional sprayers, especially fit for pest-controlling of various crops, flowers and garden plants, cleaning of public places as well as hygiene and disease control of fowl and livestock houses.

The Sprayer is equipped with a micro diaphragm pump and a 12V/7Ah battery as the power source to reduce the labor significantly and attain an efficacy 3~4times higher than that of manpower, amongst other advantages such as its high pressure, uniform atomization, high penetration and attachment of droplets.

noncredo yasa for the all mamma and no guibred ab penetrability. high adhesion ratio, extended service life

II. Structure and Features Awalymay 0 and board

Structure: The Sprayer is composed of a spray tank, a back cover, a battery, a diaphragm pump, spraying parts (rubber hose , switch , spray boom and spraying nozzle), a strap , a trailer, etc.

Peatures: safe and high-performance operation, !: Features!

- ① The spray tank is designed to be concise and elegant, capable of mating with the trailer, easy to disassemble and assemble.
- ② Come with a high-pressure and large flow pump to work with nozzles of various functions and an easy pressure-regulation unit to vary the atomization pressure between 2-4.5 bar, so as to satisfy the demands of various operation types and various nozzles, and attain the purpose of cost-saving and high efficiency.
 - ③Come with a micro diaphragm pump of compact size, light weight, high pressure, even atomization, good penetrability, high adhesion ratio, extended service life

- as well as a reliable overload protection.
- 4 Come with a high-precision voltmeter and low-battery alarm circuit for precise and clear indication of battery voltage. The alarm will give warning when the battery voltage falls below 10.8-10.5V, so as to prevent against lower-power working or power-free storage of battery, and keep the battery pole plate from getting degraded, contributing to the extended service life of battery.
- ⑤Come with a dedicated charger of three-stage charging type (constant current/constant voltage/maintaining) with short circuit/over current/reverse connection protection. The indicator lamp; red—charging; green—full/stand-by
- ©Designed to be human-friendly to allow for being carried on back or on a trailer. When being carried on a trailer, the height of handle bar can be varied depending on the human height for easy operation.

III. Technical Parameters Idailer a 28 Ilew 28

1. Type: Knapsack and trailer type

2. Overall Size : $340 \times 300 \times 730$ mm

3. Net Weight: 8. 3kg (trailer: 2. 2kg)

4. Capacity of Tank: 16LId and nadw gnimas avig I liv

5.12 Pump: Just Micro J diaphragm pump 01-8 01 wolled

Working Pressure : wog 2.0~4.5 bar www Towog Towo

limit of pump pressure: 4.5-5.0 bar

6. battery: 12V7Ah (fully-enclosed, maintenance free)

7. Charger: Input AC100-240V~50/60Hz

Output DC12V 1.3A

Spraying nozzle type	Pressure	Flow L/min	Spraying nozzle	Pressure	Flow L/min
Cone spraying nozzle	3.0~4.5	0.70~0.90	Fan spraying nozzle	0.20~0.40	0.60 ~1.10
Double spraying nozzle	2.5 ~4.0	1.30 ~1.60	Four-hole adjustable spraying nozzle	0.20~0.40	0.60 ~1.10

IV. Precautions

In addition to strictly following the safety instructions given in the Manual, the operator is required to:

- 1. Never spray special working liquid;
- 2. Observe the Safety Instruction given by its manufacturer while operating the pesticide.

Hazards



You are required to read this Manual and follow the instructions for purpose of proper operation.



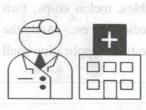
The operator shall wear a mask, operation hat, protection clothes, water-proof glove and rubber boot etc. in the process of spraying.



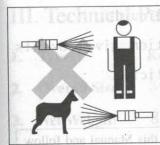
Warehousing and maintaining of pesticide. It shall be kept out of the reach of children. Disposal of pesticide shall follow the safety instructions furnished by its manufacturer.



Disassembly and repairing of charger by non-professionals is prohibitted . In case of failure, please contact the distributor. .



In case of inhaling: Immediately leave the poisonous place to a well-ventilated place to lie down for a rest. In case of intoxication via skin contact, please rinse with water immediately; In case of ingestion, induce vomiting with clean water or salt water and go to hospital as soon as possible.



Never spray at human beings or animals. Never operate against adverse wind.





The residual chemical shall be kept in a container instead of being poured onto the field, ground and rivers. The empty bottles and bags shall either be collected and sent to the manufacturer for proper disposal or buried a barren land with deep under-ground water level and small rainfall far from living areas and water sources.

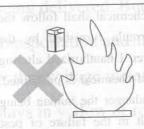
Warning Warning Warning It



Persons affected by fatigue, poor health, injury, pesticide allergy or during pregnancy shall never engage in pesticide dispensing. Alcohol drinking immediately after the spraying is prohibited.



Never use strong acid, strong alkaline, and other inflammable solutions.; Never use highly-toxic and highly-persistent pesticide for pest control of vegetables, melon crops, fruit trees, tee, herbal medicines etc. And the harvesting time after pesticide application shall be long enough.



Never dispose of used batteries in a fire or disassemble them. They shall be collected and sent to the manufacturer or relevant environment protection departments for recycling or proper disposal.



Don't keep at a public place unattended which may endanger public security.

Precautions



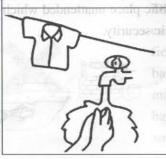
The chemical for application in this shall not exceed 45°C. Sprayer Operation in an ambience over 45°C or shall be avoided.



Trial spraying with clean water, a check of various joints for possible leakage and a check for atomization condition are required prior to initial operation. Make sure everything is ok before preparing the chemical liquid.



of said a mi assessed bear The preparation of chemical shall follow the instructions and formula furnished by the pesticide manufacturer. Unauthorized altering of the dilution rate of chemical is prohibited, which may either endanger the human being and animal, or result in the failure of pest

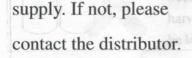


Upon the finish of operation, you shall change clothes and wash those exposed part of body such as hands and face. In case of highly toxic pesticide and germicide, a shower after operation is required to ensure safety.

V. How to Operate the Sprayer

1. Operation of Charger

Make sure that the input parameters of charger comply with the AC parameters of mains



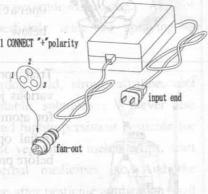
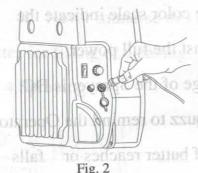


Fig. 1

The battery of sprayer has been fully charged before

being delivered. But due to self-discharge during and an analysis transportation and storage, you shall check the power level with a voltage meter before operation. If the indicator stays in yellow or red area, (i.e. \$12V), a supplementary low power requiring roled charging is required.

The battery can be charged only by plugging the



charger's plug into the charging socket without being removed from the Sprayer. If the charging TO read a land to indicator lamp turns green, it indicates that the battery

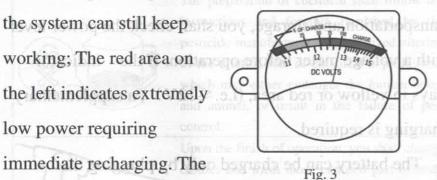
has been fully charged. The no-load voltage of full-power battery is 13.8V or so. 2 years and safe place but hat himselfaw

2. Voltmeter (Fig. 3) a begiltunged and represent il

the Sprayer is equipped with a high-precision voltmeter measuring voltage of 11V~15V. The green area of color scale indicates full battery ,fit for normal and a drive

Precantiainment

operation; Yellow area indicates insufficient voltage but the system can still keep working; The red area on the left indicates extremely low power requiring



graduation and value above the color scale indicate the percent of residual power against the full power.

The lowest working voltage of the Sprayer is DC 10.5~10.8V. The alarm will buzz to remind the Operator of charging when the voltage of batter reaches or falls below this value.

The charger shall be operated indoors at a dry, well-ventilated and safe place over 50cm above the ground.

If the Sprayer has been utilized for a short time, it is unnecessary to charge. If it has been laid aside for a long time, it shall be fully discharged before being fully charged with a regular interval (such as one month or two months)

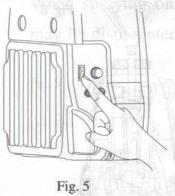
in a bid to maintain the capacity and service life of the battery, e spraying shall be conducted us

3. Filling of chemical. Remove the lid of spray tank to fill the spray tank with chemical through the strainer slowly, before tightening the lid of spray tank. (Fig. 4)



* Never immerse this Sprayer in water for filling or cleaning.

4.Spraying

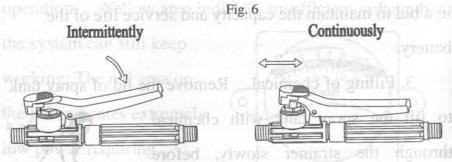


Pull the Sprayer to destination area. Turn on the power switch ("-" indicates ON, "O" indicates OFF). Point the nozzle to the crops and hold down the switch bar to start spraying.

shall be folded to let railing into the

(I)Control of water switch (Fig. 6)

(1) After the spraying starts, the operator shall pull the



(II) Spraying on the trailer.

Upon initial spraying, the pull bar shall be varied to cater for the height of operator. (Fig. 7) The front end of strap shall be folded to let falling into the tray. (Fig. 8)



(1) After the spraying starts, the operator shall pull the trailer on its right and move forward as planned while swinging the spray boom. Never fix at one place which

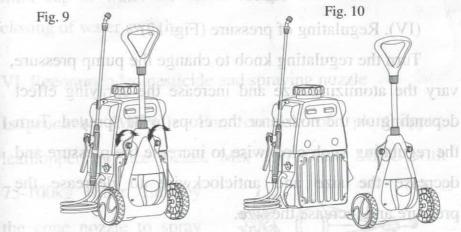
may lead to chemical injury.

(2) The spraying shall be conducted on sides. The operator shall move forward at constant speed to avoid over-spraying or missing, in a direction depending on the wind direction, generally vertical to or in an angle not less than 45° with the wind. The operator shall be at the upper drift position and the spraying part at the lower position.

(III) Spraying on the back:

(1) Dismounting of trailer.

When spraying on fields not fit for trailer, the trailer may be dismounted and the Sprayer may be mounted



on the Operator's back . It was a few and a self-revenue and

Refer to Fig. 9 for dismounting of trailer. Turn the two

locking nuts on the upper part of trailer anti-clockwise to separate the trailer from the Sprayer by lifting the Sprayer. (Fig. 10)

(2) Fixing and adjustment of strap (Fig. 11)

over-spraying or missing, in a direction depending on



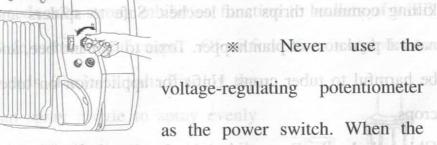
Fig. 1

(IV). Regulating of pressure (Fig. 12)

Turn the regulating knob to change the pump pressure, vary the atomizing size and increase the spraying effect depending on the nozzle or the crops to be sprayed. Turn the regulating knob clockwise to increase the pressure and decrease the size and anticlockwise to decrease the pressure and increase the size.

The Sprayer has overload protection. When the water switch is closed or the nozzle is blocked, the pump will

relief the pressure automatically.



spraying operation finishes, the power switch shall be turned off.

blight on regerable by throma 4554 50 because qot (V) to

To stop the Spraying, you shall press the power switch to turn off the pump power, followed by pushing forward the limit cap of water switch to release the switch bar for closing of water switch.

VI. Recommended pesticide and spraying nozzle

Isoprocarb (MIPC): For control of planthopper, leafhopper on rice fields. Mix 150-200ml MIPC with 75-100kg water. Employ the cone nozzle to spray evenly with the wind on Conical spray head

one side and crossly spray in multi rows. Capable of killing common thrips and leeches. Safe to spiders and natural predators of planthopper. Toxic to fish and bee, and be harmful to tuber crops. Unfit for application on tuber crops.

Chlorothalonil: For prevention of stalk rot on wheat by mixing 11 g 75% wettable powder with 6 kg water for each 100 square meters; For prevention of leaf mold and spot blight on vegetable by mixing 135-150 g wettable powder with 60-80 kg water.

Employ the cone

Four hole adjustable

evenly with the wind,

Fig. 14

spraying nozzle

on one side and crossly spray in multi-row. For prevention of downy mildew on fruit trees by mixing 75-100 g 75% wettable powder with 30-40 kg water. Employ the adjustable spray nozzle with four apertures to spray evenly with the wind, accompanied by significant loss of chemical. Being toxic to fish, please operate far away from fish pond.

Fluazifop-butyl.: Applicable for annual graminaceae weeds with strong inhibition function to budlets of weed. Safe to broad-leaf crops. Of no force for dicotyledonous

weeds. Toxic to fish. Employ the fan spray nozzle to spray evenly with the wind, on one side while moving forward in parallel manner. Be sure to avoid hurting other unintended crops by the chemical

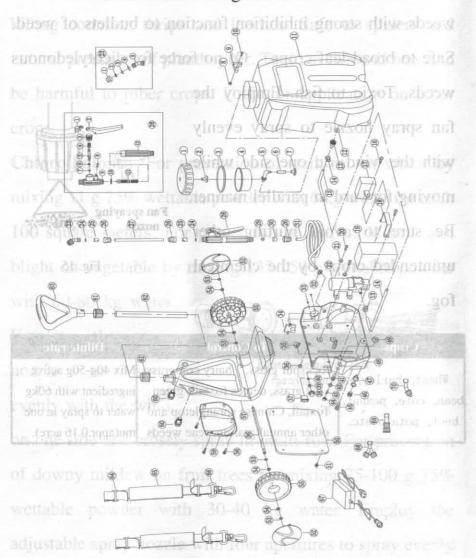


Fig. 15

fog.

Crops	To Control	Dilute rate	
Wheat, barley, bean, cole, peanut, beet, potato etc.	cockspur grass, hairy crabgrass, oat grass, dentes foxtail, green foxtail, Chinese sprangletop and other annual graminaceae weeds	ingredient with 60kg water to spray in one	

VII. Structural Diagram and Schedule 10 1580 1



with the wind, accompanied by significant loss of chemical, Being toxic to fish, please operate far away from fish pond.

SN	Description	Qty	SN	Description	Qty
1	Spray tank cap	12	26	Spray boom nut	3
2	Inlet valve	1	27	Spray boom	1
3	seal ring	10	28	water switch	1.
4	big strainer	1	28-1	limit cap	1
5	inlet bend and bod	10	28-2	switch bar lease and staff	1
6	hose	1	28-3	switch nut	1
7	small strainer	1	28-4	switch spring	1
8	hex nut M4	1,4	28-5	valve plug	1
9	spray boom clamp	10 20	28-6	valve plug 0-ring ∞9.5×1.9	1
10	cross recessed pan head screw M4×12	10	28-7	seal ring Ø8.2ר4×2.5	1.
11	spray tank	1	28-8	switch pin	1
12	O-ring Ø20.6×3	1.	28-9	switch body	1
13	Rubber tube joint	1	28-10	O-ring Ø20.6×2.65	
14	Pipe-clip 10-16	3	28-11		
15	Inlet Pipe	1	28-12	Handle trade lands	1
16	cross recessed pan head tapping screw ST4.8×25	2	29	Flared sheath	
17	Control Module	1	30	rubber hose sheath	1
18	Battery Press Plate	1	31	rubber hose	1
19	Battery 12v7AH	1	32	jacket	1
20	cross recessed pan head screw M5×15	4	33	countersunk head tapping screws ST2.9×14	2
21	Flat washer 311 (BIR)	4	34	voltmeter	1
22	diaphragm pump	1	35	adjustable potentiometer	1
23	cone spray head	110	36	hex nut M5	4
23-1	Spray head cap	1	37	power switch	1
23-2	cone spray sheet	1	38	pressure-regulating throb	1
23-3	split sheet	7	39	potentiometer nut	1
23-4	seal gasket Ø16ר11×2	0 51	40	flat washer of potentiometer	
23-5	bend	- 1,	41	fuse holder	1
24	Spray boom 0-ring Ø15×3	2	42	hexagon thin nut	1
25	Fastening sleeve	2	- 43	Fuse Ø5*20 5A	1

SN	Description	Qty	SN	Description	Qty
44	Fuse cap tun mood yang?	45	58	cross recessed pan head	5
-	Spray boom	7.5	I.	self-tapping screw ST2.9×16	5 1
45	cross recessed pan head	6.	59	tray	1
1	screw M6×12	11-85	10	ling strainer	4
46	Charging socket and dogina	£18£	60	locking nut	2
47	water-shield fun danna	12	61	locking cap	2
48	end-cover	18	62	pull rod	1
49	socket nut	₹183	63	Handle Marine Kad	8.1
50	back pad all back pad aylar	0180	64	strap lock	0 4
51	back pad buckle	4	65	strap	2
52	wheel cover	2	66	strap hook	2
57	trailer frame	1_	67	Charger 12 V	1
53	circlip for shaft 10	2	68	30° dual spray head	1
54	flat washer 10	2	69	Four-hole adjustable spray head	1
55	wheel	2	70	Cone spray head	1
56	wheel shaft	1	1.1	St. A.S. Salt ment	H

VIII. Cleaning and Maintenance



Fig. 16

After every spraying operation, the Sprayer shall be cleaned to avoid corrosion of tool and blocking of sprinkler caused by pesticide liquor. In addition, The cleaning can also avoid reducing the effects of spraying operation or bringing harm to crops

when the constituent of the remaining pesticide liquor is different from that of the pesticide liquor of next operation

How to clean:

•clean the surface of the Sprayer with a wet cloth.

Shake the sprayer after filling it with water, and then turn on the power switch to spray the cleaning water via nozzle.

 Switch strainer and spray tank strainer can be disassembled for cleaning with water.

VIII. Warehousing



The Sprayer should be stored in a dry place indoor out of reach of children. Don't keep it upside down for a long time which may damage the battery.

The spraying sheet has

IX. Troubleshooting many off to insufficiency off many

Problems	Causes of the	Solutions
scren HSX [* The pump pressure has been set at the	• Turn the knob clockwise to increase
	Surface of sulay Sumay	
run after being	fuse burn-out	• Replace
powered on.	Battery out of power	Recharge
learning water V	•Power switch has been	Replace the switch
5) I back paid to be	damaged	 Disassemble the base
5. The Committee	Power wires come off	to reconnect the
67 I thailer is	The last the same	wires.
w stramer can to	Motor damaged	Replace the motor
SI TABLE BEAUTIFUL	Potentiometer has	Replace the
SS Tabach	been damaged.	potentiometer.
Abnormal sounds heard while the motor rotates	•The fastening screws of pump loosen	• Tighten the screws
Leakage occurs to	• The inlet and outlet	Disassemble the base
the underside of the	pipes of the pump	to tighten the pipe
each lade does	loosen or break.	clam ;
	After every sp	Repair it.
wb for a-long tim battery ?p	• Extra-low pump pressure	Turn the knob clockwise to increase the pressure.
Poor atomization	• The holes inside the	•Remove the impurities
results	sprinkler sheet are blocked.	
	The spraying hole and	Replace the sheets.
AUP .	split sheet wears out.	
	• The spraying sheet has	Correct it
	The spraying sheet has	Sollect It

been inversely assembled.	
 pipe joints may loosen. Battery short of power One inlet valve or 	 Tighten the joint Recharge the battery. Remove the base .
outlet valve of the pump has been jammed to reduce the pressure by 50%.	Pump clean water while knocking at the pump head gently; Disassemble the pump housing to repair.

X. Packing List

S/N	Description	Unit	Qty.	Remarks
1	Sprayer Body	unit	1	
2	User's Manual	Pc(s)	1	In addition,
3	Four hole adjustable spraying nozzle	Pc(s)	1	telescopic rods and
4	Fan spraying nozzle	Pc(s)	1	multi-purpose
5	30° Double spraying nozzle	Pc(s)	1	spraying
6	split coupling	Pc(s)	2	nozzles are
7	spray boom O-ring ∅15×3	Pc(s)	2	available for purchasing
8	O-RING Ø20.6×3	Pc(s)	1	separately
9	Valve plug O-RING Ø9.5×1.9	Pc(s)	1	1
10	Seal Gasket Ø16×∅11×2	Pc(s)	2	-
11	Seal RingØ8.2ר4×2.5	Pc(s)	1	
12	Fuse Ø5*20 5A	Pc(s)	1	