			Normal	Sale of Sale	X		B. Park and	STATE OF THE PARTY		Section of the		potosb adra	No flash				
No faeling form carburetor	人の経験が		bad	compressing ratio is	Fueling is normal but	fine & fueling normally	Compression ratio is	all more of appare ago.	Magneto	and our suricity account		a of og bas aced as gr	W SESSORIUW STORE SE TORES	Spark plug		1	Trouble
Air hole of fuel tank blocked	Filter net dirty	No fuel in fuel tank	Spark plug is loosen	and tore	Cylinder and piston ring wore	Bad quality fuel, mixed with water or dirty	Fuel sucked in is excessive	Electronic firing device damaged	Wire of coil is broken	Insulation of coil is broken	Wrapping of wire damaged	Poles burned	This insulation of sparking plug damaged	The clearance between poles of sparking plug is too big or too small	Carbon lay down on the sparking plug. 9	Firing device wetted	Cause
Clean it and the advantage of the second	Clean it	"Fill fuel	Tighten	ring	Change cylinder and piston	Change the fuel	Reduce the fuel	Replace	Replace	Replace	Change or remedy	Change sparking plug	Change sparking plug	Adjusting the clearance at 0.6—0.7mm	Clean the carbon	Dry it out	Remedies

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Dash sound			Overlical	Engine			normai	ratio& life is			Trouble	2. Engine output is insufficient
Running parts wore and tore	Carbon lay down in combustion chamber	Bad fuel	No connection with hose	Engine oil is bad	Carbon lay down on cylinder cover	Consistency of fuel is too thin	Carbon lay down in muffler	Engine overheat	Fuel mixed with water	Filter plate clogged	Cause	IS Insulticient
Check & change	Clean it	Replace	connect	Use special mobile oil	Clean it	Adjust carburetor	Clean it	Shut down or cool it	Change fuel	wash	Remedies	

Trouble	Cause	Remedies
The engine shut down suddenly	The lead wire of sparking plug loosened	Connect if firm
The state of the s	The piston bitten	Change the piston or remedy it
The first feet of the feet of	The sparking plug laid down the carbon or short circuited	
	The fuel burned up	Feed the fuel
The engine shut down slowly	Inside the carburetor clogged	Clean it
NE	The air hole of fuel tank clogged	Clean it
	The fuel mix with water	Replace the fuel

4. The engine shuts down difficultly

		runs.
according to Fig.13.	idle speed is higher)	position, the engine still idle speed is higher)
Adjust the pull cord	located at the lowest The fuel pulling cord is too short (the Adjust the pull cord	located at the lowest
		The fuel lever handle is
remedies	causes	Trouble +
	The state of the s	

* * The engine must use mixed fuel. The ratio between gasoline and oil is determined by the oil for gasoline is No.70 or No.90 and the oil should be two-stroke oil for ** The engine should run without load for 3-5 minutes after start and before stop. It the damage of the engine parts and the harm of body. It is also strictly prohibited to is strictly prohibited that the engine runs at high speed without load in order to avoid * * To prevent fire, the engine must stop and be far away form fire sources when gasoline engines (It is strictly prohibited to use the other kinds of oil). Warning to users adding fuel .Smoking is strictly prohibited! stop the engine suddenly at high speed.

CONTENS

Technicalspecification (1)	
Main uses	
Main features (2)	
Assembly for varieties of operating condition (2).	
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Technical specification

Specification	3WF—3	3WF—3A	3WF-2.6A	3WF—2.6
Overall dimensions (mm)	420×500×690	420×500×800	410×500×755	410×500×645
Net weight(kg)	-11	11.5	On the mark to	10.5
Capacity of tank(L)	14 of	20/26	20/26	14
Spray Discharge mixture rate of (L/min)	opedi ≽4 moço	≯	≥2.3	≽2.3
chemical Dust (kg/min)	>6 No. 2 No. 150,2001	98	9€	98
Range		N	>12	>12
Volume ratio of mixture fuel between petrol and mobile oil	Sen' American des	Determined by the	Determined by the oil instruction	ent of teashor you had a control of the control of
Fan speed(r/min)	7500	7500	0009	0009
Engine model	1E40FP-3Z	1E40FP-3Z	1E40FP-3Z	1E40FP-3Z
Way of ignition	CDI	CDI	CDI	CDI
Recoil starting	Recoil starting	Recoil starting	Recoil starting	Recoil starting
Way of stopping	Type of full shut fuel	Type of full shut fuel	Type of full shut fuel	Type of full shut fuel
	throttle	throttle	throttle	throttle

Main uses

Knapsack power sprayer is portable, flexible and high-efficient equipment for use in prevention of plant diseases and controlling pests in large plantations and crop fields where cotton, wheat, paddy, fruit trees, etc. are planted. It can also be used for applying herbicides, sanitation and epidemic and prevention, spreading granular fertilizer and granular chemicals, etc. This machine can also be suited for use in mountain area, hilly land and old pieces of land.

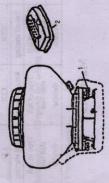
Main Features

- 1. The main parts of the machine are all made of plastic, so the machine has light weight.
- made of reinforced plastic or stainless steel, thus it has the property of anti-corrosion and long life 2. The construction design of the machine is unique. The parts contacted with chemical are all
- 3. The dimensions of the mouth on the chemical tank is big, thus to fill the chemical is easy and chemical in bags can be directly poured into the hole.
- 4. The dimension of lower part of the frame is bigger and the center of gravity of the machine is low, so the stability of the machine is good.
- 5. Recoil starting engine is adopted, so it is easy for operation. There are protective structures for the high temperature components and it is safe for use.
- 6. The rotating structure is used in the connection between hose and fan casing, it is easy for operating. The hose has long life in use.

Assembly for Varieties of Operating Condition

1. Assembly for spraying

 Remove the tow wing nuts fixed on the chemical tank and take down the tank. Change dusting lid plate for spraying lid plate, then assemble the chemical tank and screw down wing nuts as shown in Fig.1.

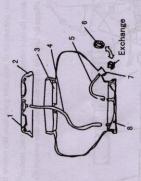


2.Dusting Plate

Fig.1

2) Assembly in chemical tank

rubber tube (do not forget to put on the sealing ring, as Fig.3). Connect the lid to the rubber tube Remove the lower cover of chemical tank, change into the pressing lid which is connected with as shown in Fig.2.



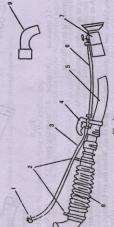
7. Discharge opening 1.Sealing washer 8. Spraying plate 5.Rubber tube 6.Lower Lid 3.Filter net 2.Lid 4.Tube

2.Connector Fig.3

1.Sealing washer 3. Pressing lid



3) Connect spraying pipe to the machine as shown in Fig.4.



5.Bentpipe 6.Plastic pipe 7.Nozzle 8.Hose 9.Pipe 1.Clip(A) 2.Clip(B) 3.Plastic tube 4.Handle

2. Assembly for dusting

Remove the chemical tank, take down the inlet rubber tube, outlet rubber tube, strainer, spraying lid plate, pressing lid and union, change for lower lid of chemical tank, then connect the dusting pipe as Fig.5. and Fig.6.



Fig.5

1.Cilp 2.Hose 3Union 4.Connecting pipe 5.Dusting pipe



Fig.6

1.Clip(B) 2.Connector 3.Bentpipe 4.Connecting pipe 5.L-Pipe 6.Y-Pipe

3.Anti-electrostatic installation

Dusting or spreading granules chemical may cause the electrostatics that is related to the factors, such as the kind of chemicals, air temperature, air humidity, etc. In order to prevent electrostatics, please use the attachment-insurance chain. When the air becomes dryer, the electrostatic is serious, in particular when the long membranous tube for dusting and granules spreading in used, electrostatic will often happen. Please pay attention.

Assembly as Fig 7.

One end of insurance chain is inserted in jet pipe, vibrated freely and touched to the ground.

Connect another end conducting wire, then fix conducting wire and insurance chain on bend pipe by screw.

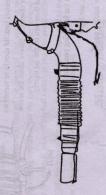


Fig.7

Rotation

ck

- 1) Check if there is loose of sparking plug, etc.
- 2) Check if the air cooling opening is blocked to avoid over-heating during rotation.
- 3) Check if air filter is dirty to avoid bad rotation and over-waste of fuel caused by quality of
- 4) Check if the gap of the sparking plug is 0.6-.07mm.
- 5) Pull the starter for 2-3times to see if engine is in normal operation.

2.Adding chemical

- 1) Adding fuel must be done at the state of the engine stop
- 2) The gasoline should be No,70 or No,90; the oil must be two-stroke gasolin engine oil. The mixture's ratio between gasoline and oil is 25-30:1. Bad quality fuel will influence the engine's performance and destroy the gasoline engine. While adding fuel, fuel filter must not be removed in order to avoid dirty matter coming in fuel tank.

3.Adding chemical

 During spraying operation, while adding chemical, the switch must be shut, see Fig.8. During dusting operation, dusting value throttle and fuel lever should be on the bottom position, otherwise, the machine will have chemical out.

3) While spraying, the chemical tank lid should be turned on chemicals should not be in the chemical tank for a long time. 2) As powder chemical can easily become block, so the

tightly. After adding powder chemical, please clean the screw of chemical tank mouth, and then turn on the lid tightly.

4.Cold starting

Please operate according to the following procedures:

- 1) Turn on the fuel switch, see Fig.9.
- 2) Put the fuel lever on the starting position. 3) Put the choker on the full position.
- 4) Pull the starter for a few times and have it returned slowly. Do not leave the handle to return freely to avoid the damage of the starter.
- 5) Close the choker and pull starter handle until the
- 6) After starting the engine, open choker fully.
- 7) Let the engine run at low speed for 2-3 minutes, then start the spraying or dusting operation.

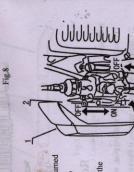
5.Starting the warm engine

- 1) Leave the choker fully open.
- 2) If the engine draws in too much fuel, leave the fuel switch fully close, pull the starter 5-6 times. Then start the engine as above.

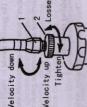
6.Speed adjustment

lever at the working position or the engine can not stop Velocity up with the handle at the lowest position. Regulate as the Speed dose not meet the fixed number with the fuel following. See Fig. 10.

- 1) Loosen the lock nut.
- 2) Turn the regulating screw right to decrease the



1. Air filter 2. Choke handle 3. Fuel switch



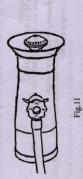
Velocity down

speed. Otherwise, the speed.

- 3) After adjustment is finished, tighten the lock nut.
- 7. Stopping the engine.
- 1) During misting operation turn off the chemical first, and then stop the machine.
- 2) During dusting operation, put the fuel lever and dusting lever at the close position.
- Note: While the engine is running, the hose must be mounted to the machine, otherwise, cooling 3) After finish work, turn off the fuel switch in order to avoid difficult start next time. air will be reduced and the engine may be damaged.

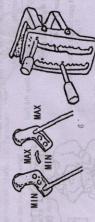
Misting/Dusting

different requirement of misting. Turn the regulating valve to change the amount of misting. See 1) Misting. Loosen the pressing lid, regulate the length of the nozzle opening to meet the



Discharging(L/min)	in dilan noming (A)	1.5	2	3
Opening	ser Car I	2	3	4

2) Dusting. Regulate the discharge rate by shifting the dust rod's position in the three holes of the rock-arm. See Fig12



sparking plug.

- (3) Screw out the two wing screws. Take off the machine tank. Clean the dust gate and the surface inside and outside of chemical tank. If the residual chemical remains in the dust gate, the dust gate will not properly and the leakage of dust will occur seriously. Then fit the chemical tank on and the loosen the tank lid.
 - (4) Take off the spray unit and wash it and then store additionally.
 - (5) Should discharge all the fuel in the fuel tank and carburetor.
 - (6) Cover the machine with plastic membrane and deposit it at dry and no dust place.

Spraying

2000	causes	remedies
No spray mixture jet or	Nozzle switch or	Clean it
jet intermittently	control value clogged	the think banks and
an property funds	Liquid lead pipe	Clean it
The state of the s	clogged	Control of the Contro
Towns and the		Tighten the tank lid and screw down
1 1100	No pressure or the	two wing nuts
ACC SOLDING SAUL	pressure is lower	Carl of the parison of
Spray mixture leakage	The spraying lid plate fitted incorrect	Refit it
and Spidelin	Every threaded joint	Screw down it

Dusting

Trouble	Causes	Remedies
No dust discharge or discharge intermittently	No dust gate can not be opened	Adjust the pull rod of the dust gate
	The dust or granule mix with foreign body	Clean it
	The dust or granule lumped	Break the lump
	Wet dust or granule	Drv it
The dust gate not work properly	The dust gate can not be closed	Adjust the pull rod of the dust gate
1,000	The dust gate is blocked up by foreign matter	Clean it
Leakage of dust	The clamp plate of the chemical tank bottom loosened	Tighten it
CATTERNOTIC CONTRACTOR	The sealing gasket of the dusting lid damaged	Change it with new
The discharge rate out of control	The control device of dust gate can not work properly	Remedy it

Technical Maintenance and

Deposit for a Long Time

- 1. Technical maintenance on spraying assembly
- (1) After spraying, clean out any residual spray mixture or dust in the chemical tank. Wash the tank and all other parts.
 - (2) After dusting or granules spreading, clean the dust gate and chemical tank inside and
- (3) After operation, loosen the chemical tank lid.
- (4) After cleaning, the machine runs at low speed for 2-3 minutes.

2. Maintenance on fuel system

- (1) The fuel mix with dust or water is one of main cause of the engine trouble, so the fuel system should be cleaned very often.
- (2) If the residual fuel remains in the fuel tank and carburetor for a long time, the residual fuel would be glued and the fuel circuit clogged, thus causing the engine not to working properly. So as the machine works for one week. All of the fuel should be discharged.

3. Maintenance on air filter and sparking plug

- (1) After the operation each day, wash the filter, if the chemicals adhere to sponge, it would deduce the engine power, please pay attention especially.
 - (2) After wash the sponge with petrol, squeeze the petrol then fix the sponge in.
- (3) The suitable clearance of sparking plug is 0.6—0.7mm, please check the clearance often, if it is too big or too small, adjust it properly, as shown in Fig. 16.
 - (4) The sparking plug model of this machine is 4106J. Do not use other model. If it is necessary for change, you may buy it form local agricultural machinery department or plant protection department.)

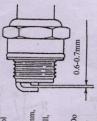


Fig.16

- 4. Deposit for along time
- (1) Clean the outside of the machine. Coat the anti-rust oil to the surface of metal.

 (2) Take down the sparking plug. Feed 15—20g mobile oil into cylinder, the mobile oil should be specially used for two-stroke petrol engine. Raise the piston to upper terminal point, then fix

Safety

- before you use it. 1. Read this manual carefully. Be sure you understand how to operate this machine properly -Flanged cap
- 2. Protective clothing (Fig 13)
- (1) Wear flanged cap.
- (2) Wear dirt/fog-proof glasses

-Gauze Masik -Dirt/fog proof

glasses

against poisons

- (3) Wear gauze mask.
- (4) Wear long gloves.
- (5) Wear cost guarding against poisons
- (6) Wear boots.
- 3. Following personnel can not use the machine.

Fig.13

- (1) Mental patients.
- (2) Drunk.
- (3) Under age or old person.
- (4) Person with no knowledge of the machine.
- (5) Dog-tired person or patient and others who can not operate the machine normally.
- (6) Person who have just exercised strenuously or slept not enough.
- (7) Women giving the breast to baby or being pregnant.

- (1)Do not fire or smoke nearby the machine.
- (2) Never refuel the machine when it is hot or running.
- (3)Never pour fuel on the machine. If you do, clean them off.
- (4)Always tighten the fuel tank lid.
- container before starting the machine. (5)Always move at least 10 feet away from the fuel
- 5. Starting engine (Fig 14)
- starting the engine, otherwise chemical will be jetted (1) Put the dust gate handle to the lowest position
- (2) It is prohibited to stand in front of nozzle. Even

when starting engine.



Fig. 14

though dust gate is closed, residual dust in pipe will be blown out. Shown in Fig 14.

6. Misting/Dusting

- with little wind. For example: in the early morning or in (1) It is fine to carry out operation during cool weather
- the late afternoon. This can reduce the evaporation and drift of chemicals and improve the protecting effect.
- (2) Operation should move windward.
- to see doctor. (3) If your mouth or eyes are spattered with chemicals, wash them with clean water and then go
- (4) If the operator has a headache or dizziness, stop working at once and go to see the doctor in
- instruction of the chemicals and agricultural requirements. (5) For the operator's safety, missing/dusting must be carried out strictly according to the
- (6) The operator should obey the instructions on the label when preparing the pesticide. (7)It is prohibited to use the special fluid, such as the strong acids or alkali, etc.

Troubles and Remedies

1. Engine starts difficultly or can not start. -Check if the sparking plug has sparked-over. Screw down the sparking plug; put the side electric shock as shown in Fig.15. carefully; do not touch the metal part of pole to touch the cylinder. Full the starter sparking plug for prevention of getting an plug whether there are sparks. Pull the starter and watch between the poles of sparking

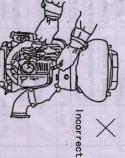


Fig.15