SPRAYERS

PM200 Model PM100 Model



JAUNAM A3SU

Before using machine, surely read this manual



USER MANUAL





PM100 Model PM200 Model

SPRAYERS



- * REED USED MANUAL BEFORE USING!
- * KEEP CHILDREN AWAY WHEN MACHINE IS RUNNING!

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х					gninsəlƏ	FUEL TANK AND FILTER
х					Check + adjust	
	X				gninsəlƏ	FUEL FILTER
		х			gninsəlƏ	
				X	Control	язтлія яід
х					Replace	OIL FILTER
	X		Х		Replace	
				X	гелеј среск	ENGINE OIL
EVERY YEAR OR IN 300 HOURS	EVERY 6 MONTHS OR	EVERY 3 MONTHS OR	RINST MONTH OR IN 20 HOURS	BEFORE USING		соитвос

MAINTENANCE SHEET

- * its proper to easy transport, small and light.
- * easy starting and maintenance (with rope)
 - * direct injection, slience working
 - * four stroke, air cooled

 - * Powerful and technologic



mm 8'0 -L'0

STANDARD FEATURES

loosen, it gets hot and causes damage to engine.

- st Assemble the spark plug to its place after cleaned with tight. Do not leave the spark plug * Measure the electrode gap of spark plug by feeler gauge. Gap must be between U,'-U,8 mm
- If there is break or split on insulator, throw it out.
 - st Check the spark plug by your eye, please clean the dirt and soots with wire brush.

SPARK PLUG MAINTENANCE

SAFETY INSTRUCTIONS

- * While disassemble and assemble , do not damage to O-RING, replace it if it is deformationed.
 - * Pay attention that fuel filter can not be dirty or watery, replace it if dirty.
 - * Clean inside of box.
 - * Place the tuel cock to " UM" position and remove the filter cover.

FUEL FILTER MAINTENANCE

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- * Place the fuel cock to "ON" position and remove the filter cover.
- * Clean inside of box.
- * Pay attention that fuel filter can not be dirty or watery, replace it if dirty.
- * While disassemble and assemble , do not damage to O-RING, replace it if it is deformationed.

SAFETY INSTRUCTIONS

SPARK PLUG MAINTENANCE

- * Check the spark plug by your eye, please clean the dirt and soots with wire brush. If there is break or split on insulator, throw it out.
- * Measure the electrode gap of spark plug by feeler gauge. Gap must be between 0,7-0,8 mm
- * Assemble the spark plug to its place after cleaned with tight. Do not leave the spark plug loosen, it gets hot and causes damage to engine.

0,7-0,8 mm



STANDARD FEATURES

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	REEODE LISING	FIRST MONTH OR	EVERY 3 MONTHS OR	EVERY 6 MONTHS OR	EVERY YEAR OR
	DEI ONE OSINO	IN 20 HOURS	IN 50 HOURS	IN 100 HOURS	IN 300 HOURS
Level check	x				
Replace		х		Х	
Replace					Х
Control	х				
Cleaning			х		
1					
Cleaning				X	
Check + adjust					X
Cleaning					х
	Replace Replace Control Cleaning Cleaning Check + adjust	Replace Replace Control X Cleaning Cleaning Check + adjust	BEFORE USING IN 20 HOURS Level check X X Replace X Replace Control X Cleaning Check + adjust	BEFORE USING IN 20 HOURS IN 50 HOURS Level check X Replace X Replace Control X Cleaning X Cleaning Check + adjust	BEFORE USING

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05

- 17 How start gasoline engine
- 16 Gasoline Engine Technical Specifications
 - 15 Using Gasoline Engine
 - 13 Diagram Of The Sprayer Pump
 - 10 Pump Defination
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- 80 Sprayer Pm200 ve Technical Specifications
 - 07 After Spraying
- 07 Malfunction and Maintenance Instructions
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 - 96 Pump & Engine motor oil change
- 60 Things To Do Crop Processing & Ending
 - 05 | Before Starting Sprayer
 - 04 Safety Instructions
 - 03 Safety Signs & Symbols

CONTENT

* KEEP CHILDREN AWAY WHEN MACHINE IS RUNNING!

* REED USED MANUAL BEFORE USING!





ENGINE DOESNT WORK OR ITS STOPPING WHILE WORKING

- * Check the oil level, add oil if needed
- * is there any air in fuel system? If have, take it out.
- * Check the fuel tank, fill fuel if needed.
- * Check the fuel cock open or not.

MAINTENANCE

- * Purpose of maintenance is to ensure of motopump works in best condition.
- * Stop the engine during maintenance operation. Do mainteance often in dusty areas.

OIL CHANGING

- * Do draining of oil operation while engine is hot
- * Remove oil drain plug and oil filling plug.
- * After drained oil, reassemle the plugs to their places tightly
- * Fill the oil till oil filling sign .
- * Do not dirtying the environment while changing the oil. Ensure the cleaning of outgoing oils properly. clean your hand plenty of water and soap.

AIR FILTER MAINTENANCE

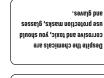
* Dirty air filter prevents the carburator's working properly and efficiently by preventing air flow to carburator.

Please do air filter maintenance ofter in dusty and dirty areas.

- * Remove the air filter cover, take out sponge filter element.
- * Replace torn or punched parts.
- * Replace the paper filter element in case of torn or very dirty.
- * Clean the filter seat and air passing pipe.
- * After washed the sponge element in detergent water by plenty of water, DRY it. Dip it into clean oil and take out excess oil by squeezing. After operation finished, reassemble the sponge element its place by closing the cover and tight the screw.

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03







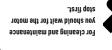


























READ USER MANUAL BEFORE USING!



BEFORE RUNNING

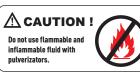
Engine: 650 ml - No.10/40 Pump : 650 ml - No.30

FILL OIL!





KEEP YOUR MACHINE FROM RISK OF FREEZING





For cleaning and maintenance you should wait for the motor stop first.



Do not dispose of waste produced by the machine directly in the trash Handle depending on your countrie enuironmetal regulations.



HOT SURFACE



CAUTION! DO NOT SPRAY CHEMICALS TO THE LIVINGS.



Despite the chemicals are corrosive and toxic, you should use protection masks, glasses



03

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MAINTENANCE

- * Check the fuel cock open or not.
- * Check the fuel tank, fill fuel if needed.
- * is there any air in fuel system ? If have, take it out.
 - * Check the oil level, add oil if needed

ENGINE DOESNT WORK OR ITS STOPPING WHILE WORKING

SAFETY INSTRUCTIONS

- In case of any malfunction or suspected negative operation, do not interfere during working/operating. Firstly let your machine stop and then intervene.
- For safety reasons; Keep children away from the machine when the machine is in
- During working with the machine; Wear your protective clothing, safety goggles and mask.

CAUTION!_

- At the end of daily operations, stop your machine completely and take necessary measures, then clean regularly. This is important both for hygiene and also to extend the lifetime of your machine.
- Never wash your machine, clean it with a damp cloth or sponge.
- Store your machine in a dry and clean place.
- Contact your authorized technical service in case of any malfunction in your machine.

DESCRIPTION OF MACHINE WORKING PRINCIPLE

the pump with three pistons that taking movement from thermal engine by belt pulley, pushing the liquid to spraying control group which has been absorbed from chemical tank. the liquid that adjusted of pressure in here is forwarded to the sprayer gun via hose.pulverization process is being done by sprayer gun which has adjustable spayer head.

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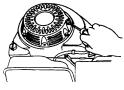
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position close lever to " STOP" * Place the engine open

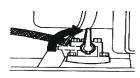
STOPING



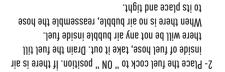
If you dont start it up , please try again. Place the choke rod to " START/RUN" position. forced and release it. slowly. Grab the ROPE HOLDER properly and pull by 4. Pull the rope till you feel resistance, and release it

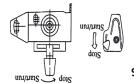


3. Place choke rod to " CHOKE" position.



HUKE





1-Place the open -close switch to " START" position.

STARTING ON THE ENGINES WITH ROPES

STARTING

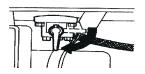
STARTING ON THE ENGINES WITH ROPES

1-Place the open -close switch to "START" position.





2- Place the fuel cock to "ON" position. If there is air inside of fuel hose, take it out. Drain the fuel till there will be not any air bubble inside fuel. When there is no air bubble, reassemble the hose to its place and tight.

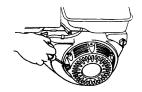


3. Place choke rod to "CHOKE" position.



4. Pull the rope till you feel resistance, and release it slowly. Grab the ROPE HOLDER properly and pull by forced and release it.

Place the choke rod to "START/RUN" position. If you dont start it up , please try again.



STOPING

* Place the engine open close lever to "STOP" position





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is being done by sprayer gun which has adjustable spayer head. that adjusted of pressure in here is forwarded to the sprayer gun via hose.pulverization process the liquid to spraying control group which has been absorbed from chemical tank. the liquid the pump with three pistons that taking movement from thermal engine by belt pulley, pushing

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 - SAFETY INSTRUCTIONS

GENERAL SAFETY INSTRUCTIONS

BEFORE STARTING

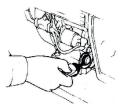
* CHECK THE OIL LEVEL!

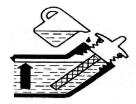
Engine delivered without oil. Please fill the oil before using if there is no oil inside engine or oil level less in that time OIL LAMP shines, if motor is working, it stops. Oil must be filled till the minimum oil level sign of the engine. The engine oil effects engine's lifetime and its performance.

Please use four stroke and high quality oil.

Do not use herbal and dirty oil. Plese wait about 3 minutes after you filled the oil and before start the engine.

The low oil level automatic closing fitting engages and it will prepare itself to starting.





* CHECK THE FUEL LEVEL!

Stop the engine while filling FUEL. Do not use FUEL which is dirty and if you are not sure quality of it. Never add oil to fuel. Fuel is extremely flameable and explosive, never smoke during filling operation.

Do not filling at the areas which has flameable and sparky.

Fill the fuel to the tank by using BIN with filling hose or nozzle and do not overflow from the tank There must not be any fuel around tank cover. After filling operation, tank cover must be closed tightly.

if there is any poured fuel, please clean it.

* CHECK THE AIR FILTER!

Never work the WATER PUMP without air filter. Check the air filter components, make sure that all are clean and good condition. If filter torn or very dirty, please replace it.

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ATTENTION: WHILE MAKING PRESSURE ADJUSTMENT, IT MUST BE DONE DEFINETELY THE INDICATOR SHOULD BE ADJUSTED BY NOTEN THAN 40 BAR (YELLOW AREA) OTHERWISE IT CAUSE TO OCCUR PUMP MALEUNCTION

Meanwhile, pressure is adjusted by the pressure adjustment valve which is on the regulator in order make the mixture get reach to requested pressure.

While starting to spraying process, by opening chemical valve to start application.

SPRAYING PROCESS

MOTE: MIXER VALVE CAN BE LET OPEN CONTINOUSLY DURING APPLICATION, THERE IS NO PROBLEM FOR THE MACHINE

 CFUIOM !: IN ORDER TO PREVENT MACHINE'S RISING TO EXTREME HIGH RPM, PLEASE FOLLOW THE PRESSURE FROM PRESSURE GAUGE.

Duration of the mixture completion can be change depending on type of used chemicals

By getting the mixer valve which on the pump takes to open position to make movement to pump, thus, the mixture of water with chemical is provided.

Depending on the process to be done the chemical tank cover of the tank with full with chemical or existed full water is opened and discharge to inside than closed.

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Never work the WATER PUMP without air filter. Check the air filter components, make sure that all are clean and good condition. If filter torn or very dirty, please replace it.

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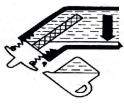
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BEFORE STARTING

GENERAL SAFETY INSTRUCTIONS

SAFETY INSTRUCTIONS

THINGS TO DO CROP PROCESSING & ENDING

ALL MAINTENANCES AT THE BELOW MUST BE IMPLEMENT IN TIME FOR THE GUARANTY VALIDITY.

MACHINE MAINTENANCE

*THE TANK SHOULD BE WASHED WITH CLEAN WATER AFTER EACH USE AND THE MACHINE WORKING METHOD USED TO CLEAR OUT. IN THIS WAY PUMP, HOSE AND WEAPON CAN BE CLEANED.

*FIRST CHANGE OF PUMP OIL MUST BE DONE AFTER 10 HOURS.

*SECOND CHANGE OF PUMP OIL MUST BE DONE AFTER 50 HOURS.

*THIRD CHANGE OF PUMP OIL MUST BE DONE AFTER 70

*ENGINE OIL SHOULD BE CHECKED EVERY 100 HOURS

*AIR FILTER SHOULD BE CHECKED EVERY 100 HOURS.

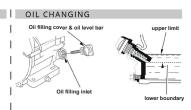
*SPARK PLUG SHOULD BE CHECKED EVERY 50 HOURS.

*THE FELT OF PUMP COMPRESSION SHOULD BE CHECKED | EVERY 50 HOURS.

*THE PUMP VALVES SHOULD BE CHECKED EVERY 100 HOURS.

EXCEPT AS AUTHORIZED SERVICE PERSON IF TRY TO REPAIR AND REMOVING THE MACHINE SPARE PARTS OR INSTALLING AFTERMARKET PURPOSE OR NON- USE OF MACHINE VOID THE GUARANTY EXCLUDES .

IF THE MAINTERANCES DOES NOT IMPLEMENT THEN THE MACHINE WILL NOT UNDER THE GU



You should use no 20-50 motor oil inside

THE USED OIL SHOULD BE DRAINED WHILE THE ENGINE IS HOT.

Before each use you must control oil level

THE TANK SHOULD BE WASHED WITH CLEAN WATER AFTER EACH USE AND THE MACHINE WORKING 'METHOD USED TO CLEAR OUT. IN THIS WAY PUMP, HOSE AND WEAPON CAN BE CLEANED.

⚠ CAUTION! **BEFORE STARTING**

Engine: 650 ml - No.10/40 Pump : 650 ml - No.30

FILL OIL!

iil up the oil tank when the cursor comes half filling level position. 20-50 engin uld be used in the pump. If the presticide rea ill be harmfull to the machine.



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16	Weight (Kg)
194	Spark plug
1,05	Fuel consumption g/ s.s.
385 x 350	Dimensions
Rope starter	gnitnets terif
0,6 \ SAE10W30 \ 4 stroke engine oil	lio gnisu îo eqyT \ on liO \ (1!) ytitneup liO
11.0 \ 2500	Max. Torque M.M. (r.p.m.)
4.0 \ 5.44	Power KW / HP
1:2.8	Compression ratio
3009	Cycle (cycle/min.)
(96'TT) 96T	Current density (cu.in)
St * 89	Seat inside dia. (mm)
£.4 \ leuf bebeelnU 0e.oN	Fuel / Fuel tank capacity lt
single cylinder,4 stroke, air cooled, gasoline engine	Engine Type
BARTECH GASOLINE ENGINE	ENGINE

GASOLINE ENGINE TECHNICAL SPECIFICATIONS

of the areas which has fire and spark.

- * Please stop the engine while input fuel into BARTECH gasoline engine and do not fill fuel in
 - * Please learn how the Generator stops quickly for emergency situations.
 - * The ground must be steady and flat when the BARTECH gasoline engine will start. If needed to work it, please take caution.
 - st Do not use generator at the areas where the materials can be flaming easily.
 - * Do not touch hot parts such as driving engine and exhaust fitting.
 - st Children and pets must be kept away while BARTECH gasoline engine is working under rain and snow. If needed to work it, please take caution.
- st Do not touch wet hands to the BARTECH gasoline engine when its working. Do not start it up in ventilated areas. Waste gases must be goes out via a pipe.
- * Waste gases are poisonous and harmful to health. BARTECH gasoline engine must be started ENGINE according to your needs.
- * In order to benefit fully from the BARTECH GASOLINE ENGINE, please use BARTECH GASOLINE
 - * Please do necessary controls not to cause any accident and damage to your unit appriances.
 - st Please start the BARTECH GASOLINE EWGINE away from wall and 1 mtr away from other

GENERAL SAFETY INSTRUCTIONS

SAFETY INSTRUCTIONS

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GENERAL SAFETY INSTRUCTIONS

- * Please start the BARTECH GASOLINE ENGINE away from wall and 1 mtr away from other appliances.
- * Please do necessary controls not to cause any accident and damage to your unit
- * In order to benefit fully from the BARTECH GASOLINE ENGINE, please use BARTECH GASOLINE ENGINE according to your needs.
- * Waste gases are poisonous and harmful to health. BARTECH gasoline engine must be started in ventilated areas. Waste gases must be goes out via a pipe.
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GASOLINE ENGINE TECHNICAL SPECIFICATIONS

ENGINE	BARTECH GASOLINE ENGINE
Engine Type	single cylinder,4 stroke,air cooled,gasoline engine
Fuel / Fuel tank capacity It	No.90 Unleaded fuel / 4.3
Seat inside dia. (mm)	68 * 45
Current density (cu.in)	196 (11.96)
Cycle (cycle/min.)	3600
Compression ratio	8.5 : 1
Power KW / HP	4.0 / 5.44
Max. Torque N.M. (r.p.m.)	11.0 / 2500
Oil quantity (It) / Oil no / Type of using oil	0,6 / SAE10W30 / 4 stroke engine oil
First starting	Rope starter
Dimensions	385 x 335 x 350
Fuel consumption g/ s.s.	1,05
Spark plug	F6T
Weight (Kg)	16

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oolld be used in the pump. If the pre

FILL OIL !

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Engine : 650 ml - No.10/40

BEFORE STARTING INOITUAD A

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*THE FELT OF PUMP COMPRESSION SHOULD BE CHECKED

*SPARK PLUG SHOULD BE CHECKED EVERY 50 HOURS.

*AIR FILTER SHOULD BE CHECKED EVERY 100 HOURS.

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MACHINE MAINTENANCE

ALL MAINTENANCES AT THE BELOW MUST BE IMPLEMENT IN TIME FOR THE GUARANTY VALIDITY.

USING GASOLINE ENGINE



CAUTION!

Please read this USER MANUAL carefully before using BARTECH GASOLINE ENGINE to prevent any damages because of wrong usage or any causing accident and please follow using instructions. Pay attention to the informations and warnings on BARTECH GASOLINE ENGINE. It is forbidden to make any modification and to change revolution cycles which had been set by manufacturer on BARTECH GASOLINE ENGINE. In case to do contrary, product will be OUT OF WARRANTY.

STANDARD FEATURES

OIL WARNING SYSTEM

Engine does not work if the oil quantity is less than requested level. In case of drop down of level during working, engine stops automatically in order to prevent further damages.

AUTOMATIC DECOMPRESSION SYSTEM

BARTECH series gasoline engine ensures advantage to users by working of automatically decompression system without power needed.

AIR CLEANING SYSTEM

High performance oily air filter is suitable to changeable environment conditions by itself structure. Because of it has OIL BATHING special air filter, the engine works long time even if extremely dusty places.

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transportation process. Please get fasten up mobile parts of machine while doing



WHILE MOVING AND TRANSPORTATION!

7. Our all products have 2 year warranty to production mistakes 6. Buy your product spare parts from our factory or authorized our dealer 5. Check engine and pump oil every month. inside of gun and spraying hoses

4. To keep treeze in winter time, please be sure keep your products without water 3. Use clear water to long life of pump

2. Before starting sprayer please be sure sprayer gun and valfes on position

1. Don't start sprayer without water inside of spraying tank

USE & MAINTENANCE INSTRUCTIONS

- Keep it store between -50°C and +40°C temperatures.

long life against to corrosion.

- Do not clean your machine with wet something in order to make your machine
 - Check the screws periodically once a month. tighten the loosen screws.
 - Load off the machine 15 minutes in every 1 hour while it is working.

Please stop the machine in order to mame periodic maintenance.



MALFUNCTION AND MAINTENANCE INSTRUCTIONS

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- 7. Our all products have 2 year warranty to production mistakes



WHILE MOVING AND TRANSPORTATION!

Please get fasten up mobile parts of machine while doing transportation process.

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extremely dusty places.

structure. Because of it has OIL BATHING special air filter, the engine works long time even it High performance oily air filter is suitable to changeable environment conditions by itself

AIR CLEANING SYSTEM

decompression system without power needed. BARTECH series gasoline engine ensures advantage to users by working of automatically

AUTOMATIC DECOMPRESSION SYSTEM

level during working, engine stops automatically in order to prevent further damages. Engine does not work if the oil quantity is less than requested level. In case of drop down of

OIL WARNING SYSTEM

STANDARD FEATURES

WIII be OUT OF WARRANTY. been set by manufacturer on BARTECH GASOLINE ENGINE. In case to do contrary, product ENCINE: It is torbidden to make any modification and to change revolution cycles which had using instructions. Pay attention to the informations and warnings on BARTECH GASOLINE prevent any damages because of wrong usage or any causing accident and please follow Please read this USER MANUAL carefully before using BARTECH GASOLINE ENGINE to

I NOITUAD



		gnin-3	04	V.packing seat	38
Albasi g nitsutbA	104	niq	69	У.раскіпд	34
Hex bolt	103	Spring seat	89	Grease ring	33
Spring washer	102	Regulation spring	<i>L</i> 9	Grease seal	32
Bed, crank case	101	Upper metal	99	Bnir gnirsuįbA	I€
Over flow packing	100	Level	59	Check ring	30
Male joint	66	Spring washer	7 9	Plunger oil seal	67
Wing nut, over flow	86	Plain washer	63	alod but?	87
Over flow hose	<i>L</i> 6	Cross serew	79	Spring washer	17
Strainer, suction assembly	96	xod gaing2	19	Plain washer	97
Suction, packing	\$6	Fly nut	09	Gland cover	57
Male joint	t 6	Pressure adjusting screw	65	Plain washer	77
Wing nut, suction	٤6	Outlet plug	85	Зстем, стапк сочег	53
Suction hose	76	Cock (valve)	LS	Сочет, стапк shaft	77
Strainer Joint	16	Pressure gauge	99	Hex bolt	17
Hex bolt	06	Аіт сһатрст	çç	Packing, bearing case	07
Spring washer	68	Hex nut	ÞS	Oil seal, crank shaft	61
Plain washer	88	Plain washer	£\$	Case ball bearing	. 81
К еу	L8	Mod but?	75	Ball bearing	LI
V-pulley	98	Water outler chamber	15	Crank shaft	91
Lock nut	\$8	Suction cap	05	Packing drain plug	SI
Flange	1/8	Hex nut	67 .	Drain plug	ÞΙ
Packing, valve seat	83	Spring washer	87	oguag liO	εI
Valve seat	78	Telain washer	Ltr	Screw, cover	71
Body, over flow	18	Sfud bolt	94	Packing, cover	П
Ball valve	08	Suction chamber	St	Cover, crank case	10
Spindle cap	64	Valve seal	ÞÞ	Plain washer	60
Spindle	84	Valve seat	۲۶	Spring washer	80
Box, oil seal	LL	Stopper	ζ'n	Bolt, connecting rod	L0
Spindle packing	94	Saire syring	[t	Connecting rod	90
Packing holder	SL	xod gairq2	0t	Plunger pin	\$0
Plain washer	ÞL	Valve assembly	68	Plunger	† 0
Hex bolt	£L	Set clip for adjusting	38	Name plate	60
Pressure adjuster	ZL	Cylinder	Lε	Oil inlet cover	70
Plain washer	17	Grease cup	98	Crank case	10

13

80

MODEL	PM200	PM100
Engine Capacity	196 cc	196 cc
Engine Power	6,5 Hp	6,5 Hp
Engine Type	4 Stroke,	4 Stroke,
Speed	3600 rpm/min	3600 rpm/min
Fuel Tank Capacity	3,6 L	3,6 L
Sprayer Tank Capacity	200 L (Polythene)	100 L (Polythene)
Pump Type	22 L/Max.	22 L/Max.
Pump Power / Bar	1,5 ~ 2 Hp (Max.40 Bar)	1,5 ~ 2 Hp (Max.40 Bar)
Pump Speed	800 ~ 1200 s/min	800 ~ 1200 s/min
Suction	13 ~ 22 L/min	13 ~ 22 L/min
Pressure	10 ~ 40 kgf/cm ³	10 ~ 40 kgf/cm ³
Max. Spraying Distance	8 - 10 m	8 - 10 m
Hose Reel	Optional	Optional
Weight	60 Kg	52 Kg
Dimensions (WXLXH)	81 x 125 x 75 cm	81 x 117 x 60 cm

	Pressure Gauge	Sprayer Tank
Gasol	ine Tank Spra	ayer Tank Cover
Air filter	Muffler	
Lift Handle		
		125
Starter		
Engine Start- Stop Switch		
		Wheel
Compression Cursor	Compression Pump	Belt Inlet Hose
Drain And Mixer Hose	Valve e Mixer Valve	Record Release

Pressure Gauge Sprayer Tank Cover Lift Handle Air filter Muffler Start- Stop Switch Compression Compression Compression Valve Mixer Valve Record Cursor Valve Mixer Valve Record Record Valve Record Cursor Valve Mixer Valve

Dimensions (WXLXH)	81 x 125 x 75 cm	mp 03 x 111 x 18
tdgiəW	60 Kg	52 Kg
Hose Reel	IsnoitqO	IsnoitqO
Max. Spraying Distance	m 01 - 8	m 01 - 8
Pressure	10 ~ 40 kgf/cm ³	10 ~ 40 kgf/cm ³
Suction	13 ~ 22 L/min	13 ~ 22 L/min
Pump Speed	nim\s 00S1 ~ 008	nim\s 00S1 ~ 008
Pump Power / Bar	(1s8 04.xsM) qH S ~ 2,1	1,5 ~ 2 Hp (Max.40 Bar)
Pump Type	22 L/Max.	22 L/Max.
Sprayer Tank Capacity	200 L (Polythene)	100 L (Polythene)
Fuel Tank Capacity	₹96	₹96
Speed	nim/mq1 008£	3600 rim/mq
Engine Type	4 Stroke,	4 Stroke,
Engine Power	qH č ,9	qH č ,8
Engine Capacity	J96 cc	J9 96 L
WODEF	PM200	001Mq

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03 11000 000 000 000 000 000 000 000 000	Oil inlet cover Name plate Plunger Plunger pin Connecting rod Bolt, connecting rod Spring washer Plain washer Cover, crank case Packing, cover Screw, cover	37 38 39 40 41 42 43 44 45	Cylinder Set clip for adjusting Valve assembly Spring box Valve spring Stopper Valve seat Valve seal Suction chamber	72 73 74 75 76 77 78 79	Pressure adjuster Hex bolt Plain washer Packing holder Spindle packing Box, oil seal Spindle
04 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Plunger Plunger pin Connecting rod Bolt, connecting rod Spring washer Plain washer Cover, crank case Packing, cover Screw, cover	39 40 41 42 43 44 45	Valve assembly Spring box Valve spring Stopper Valve seat Valve seal	74 75 76 77 78	Plain washer Packing holder Spindle packing Box, oil seal
05	Plunger pin Connecting rod Bolt, connecting rod Spring washer Plain washer Cover, crank case Packing, cover Screw, cover	40 41 42 43 44 45	Spring box Valve spring Stopper Valve seat Valve seal	75 76 77 78	Packing holder Spindle packing Box, oil seal
06 007 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Connecting rod Bolt, connecting rod Spring washer Plain washer Cover, crank case Packing, cover Screw, cover	41 42 43 44 45	Valve spring Stopper Valve seat Valve seal	76 77 78	Spindle packing Box, oil seal
07 10 10 10 11 12 13 14 15 16 17 17 17 17 17 17 17	Bolt, connecting rod Spring washer Plain washer Cover, crank case Packing, cover Screw, cover	42 43 44 45	Stopper Valve seat Valve seal	77 78	Box, oil seal
08	Spring washer Plain washer Cover, crank case Packing, cover Screw, cover	43 44 45	Valve seat Valve seal	78	
09 110 0 111 11 112 113 0 114 115 116 0 117 11	Plain washer Cover, crank case Packing, cover Screw, cover	44 45	Valve seal		Spindle
10 6 11 12 5 13 6 14 1 15 1 16 6 17	Cover, crank case Packing, cover Screw, cover	45		79	
11 1 12 5 13 6 14 1 15 1 16 6 17	Packing, cover Screw, cover		Suction chamber	1	Spindle cap
12 13 6 14 14 15 16 6 17 17	Screw, cover	46		80	Ball valve
13 6 14 1 15 1 16 6 17			Stud bolt	81	Body, over flow
14 1 15 1 16 6	Oil cauge	47	Plain washer	82	Valve seat
15 I	Oil gauge	48	Spring washer	83	Packing, valve scat
16	Drain plug	49	Hex nut	84	Flange
17	Packing drain plug	50	Suction cap	85	Lock nut
	Crank shaft	51	Water outler chamber	86	V-pulley
18 -	Ball bearing	52	Stud bolt	87	Key
	Case ball bearing	53	Plain washer	88	Plain washer
19	Oil seal, crank shaft	54	Hex nut	89	Spring washer
20	Packing, bearing case	55	Air chamber	90	Hex bolt
21	Hex bolt	56	Pressure gauge	91	Strainer joint
22	Cover, crank shaft	57	Cock (valve)	92	Suction hose
23	Screw, crank cover	58	Outlet plug	93	Wing nut, suction
24	Plain washer	59	Pressure adjusting screw	94	Male joint
25	Gland cover	60	Fly nut	95	Suction, packing
26	Plain washer	61	Spring box	96	Strainer, suction assembl
27 5	Spring washer	62	Cross screw	97	Over flow hose
28	Stud bolt	63	Plain washer	98	Wing nut, over flow
29 1	Plunger oil seal	64	Spring washer	99	Male joint
30 (Check ring	65	Level	100	Over flow packing
31 4	Adjusting ring	66	Upper metal	101	Bed, crank case
32 (Grease seal	67	Regulation spring	102	Spring washer
33 (Grease ring	68	Spring seat	103	Hex bolt
34	V,packing	69	Pin	104	Adjusting handle

Attention!

To keep the sprayer perfect in performance,

please follow the instruction printed in this page.

A. Operation Instruction

- 1. Check every fastener and make sure that the sprayer and the motor are installed firmly on the frame.
- 2. Set the two pullegs in a straight line, and the belt in an appropriate tightness.
- 3. Every joint $\,$ f the hoses must be tightened to prevent from leaking.
- 4. Before start ng the motor, shut off the (57) Cock (Valve), loose the (59) Pressure Adjusting Screw and pull the (72) Pressure Adjuster to the top.
- 5. Start the motor to power the sprayer, keep a proper revolution. Press the (72) Pressure Adjuster to the bottom. Keep the pressure arround 21-35Kgs.By adjusting the (59) Pressure Adjusting Screw.
- 6. Open the (57) Cock (Valve) to start spraying.
- 7. After the spraying is over, pull the (72) Pressure Adjuster to the top and operate the sprayer with fresh water to clean out the remaining chemicals.

B. Pump Lublication

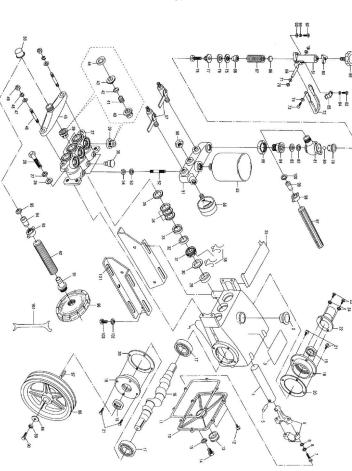
- 1. Replace the engine oil after the sprayer has been used for the first 10 hours, 50 hours, and thence
- 2. Drain away the dirty engine oil by screwing off the (14) Drain Plug.
- 3. After the (14) Drain Plug is screwed on, remove the (2) oil Inlet Cover and refill #30-40 clean engine oil.
- 4. Keep the oil level at 2 / 3 of the (13) oil Gange.
- 5. Always fill the (36) Grease Cups with grease. Screw on the (36) Grease Cups 2-3 cycles every 2 hours of spraying.

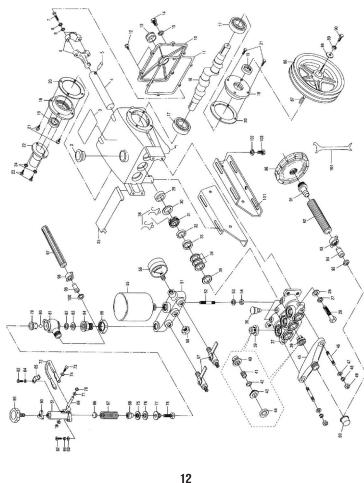
C. Trouble Shooting

- a. Feeding Failure & Pressure Instability
 - 1. Check whether the (92) Suction Hose is leaking or is stuck.
- 2. Open the (57) Cock (valve) to release the surplus air.
- 3. Remove the (45) Suction Chamber and the (51) Water Outlet Chamber check if the (39) Valve Assembly are stuck or damaged.
- b. Pressure Insufficiency
 - 1. Check whether the pressure has been adjusted properly. (refer to the operation instruction No. 5)
 - 2. Check whether the belt is too loose.
 - 3. Check whether the Spray Hose and the couplings are broken and damaged
- c. Cylinder Leakage.
 - 1. Remove the (25) Gland cover and wind up the (31) Adjusting Rings.
- 2. If still in vain, replace the (34) V-packings in the (37) Cylinder. Remark: () indicates the " part number " of relative part.

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Remark: () indicates the "part number " of relative part.

- 2. If still in vain, replace the (34) V-packings in the (37) Cylinder.
-]. Remove the (25) Gland cover and wind up the (31) Adjusting Rings.
- 3. Check whether the Spray Hose and the couplings are broken and damaged. 2. Check whether the belt is too loose.
 - (refer to the operation instruction No. 5)
 - Check whether the pressure has been adjusted properly.
 - b. Pressure Insufficiency

valve Assembly are stuck or damaged.

- 3. Remove the (45) Suction Chamber and the (51) Water Outlet Chamber check if the (39)
 - 2. Open the (57) Cock (valve) to release the surplus air.
 - 1. Check whether the (92) Suction Hose is leaking or is stuck.
 - a. Feeding Failure & Pressure Instability

C. Trouble Shooting

- 5. Always fill the (36) Grease Cups with grease. Screw on the (36) Grease Cups 2-3 cycles every 4. Keep the oil level at 2 \pm 3 of the (\pm 3) oil Gange.

3. After the (14) Drain Plug is screwed on, remove the (2) oil Inlet Cover and refill #30-40 clean

- 2. Drain away the dirty engine oil by screwing off the (14) Drain Plug.
 - every 70 hours.

I. Replace the engine oil after the sprayer has been used for the first 10 hours, 50 hours, and thence B. Pump Lublication

- 7. After the spraying is over, pull the (72) Pressure Adjuster to the top and operate the sprayer with
- tresh water to clean out the remaining chemicals. 6. Open the (57) Cock (Valve) to start spraying.
- the bottom. Keep the pressure arround 21-35 Kgs. By adjusting the (59) Pressure Adjusting Screw. δ . Start the motor to power the sprayer, keep a proper revolution. Press the (72) Pressure Adjuster to
- Screw and pull the (72) Pressure Adjuster to the top. 4. Before start ng the motor, shut off the (57) Cock (Valve), loose the (59) Pressure Adjusting
 - 3. Every joint I the hoses must be tightened to prevent from leaking.
- 2. Set the two pullegs in a straight line, and the belt in an appropriate tightness. I. Check every fastener and make sure that the sprayer and the motor are installed firmly on the frame.
 - A. Operation Instruction

please follow the instruction printed in this page. To keep the sprayer perfect in performance,

USING PUMP PUMP DEFINITION



Run the engine. (How to run gasoline engine is in the other pages.)

Turn the mixer valve of pump from \boldsymbol{A} position to \boldsymbol{B} position. In this way the chemicals will be mixed in the presticide tank.

before starting.

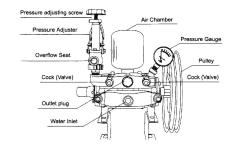


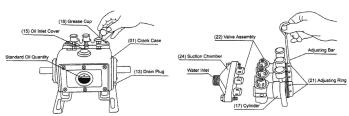
Turn the hose valve to \boldsymbol{A} position for the prepare to disinfect. (The valve will be off on the ${\pmb B}$ position.)



Turn the compression swich to 2 position for the compression transfer to hose valve. (Optimum compression is 25 BAR.

Compression setting is fixable with the black plastic screw on the regulator. Pull on the yellow control screw on the bottom after the compression setting.





PUMP TECHICAL SPECIFICATION			
Model	B-22JPD		
Power	1,5~2 Hp		
Speed	800 ~ 1200 rpm/min		
Emme	14 ~ 22 L/min		
Pressure	10 ~ 40 Kgf/cm ²		
Weight	8,5 kg		

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Spraying pressure valve, mixing valve and pressure lever turns to close position before starting. The machine works by pushing black button after prope electric socket and adjust pressure level till coming to 4 level on the green clored pressure andicator from pressure gauging regulator. After that start to operating by opening of valves by providing chemical and water mixture.

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Pay attention that valves and sprayer guns should be switch ON

Do not operate without put water rinside Tank.

8,5 кд	thgiəW
10 ~ 40 Kgf/cm²	Pressure
nim/J SS ~ ₽l	Emme
nim/mq1 00S1 ~ 008	Sbeed
dH ک~5,۱	Power
B-22JPD	ləboM

PUMP TECHICAL SPECIFICATION

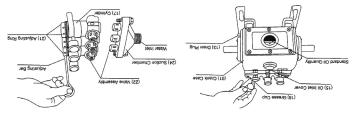


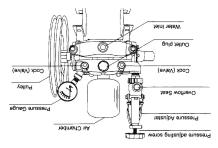


4 level on the green clored pressure andicator from pressure gauging regulator. After that start to operating by opening of valves by providing chemical and water mixture. Spraying pressure valve, mixing valve and pressure lever furms to close position before starting. The machine works by pushing black button after proper electric socket and adjust pressure level till coming to have a furner pressure pressure in the properties of the properties of the properties of the present pressure pressure in the present pressure p

before starting.

Pay attention that valves and sprayer guns should be switch ON Do not operate without put water rinside Tank.





the compression setting. Compression setting is fixable with the black plastic screw on the regulator. Pull on the yellow control screw on the bottom after the control screw on the bottom after the compression setting.

2 position for the compression transfer to hose valve. (Optimum compression is 25 BAR. Turn the compression swich to

valve will be off on the \boldsymbol{B} position.) tor the prepare to disinfect. (The Turn the hose valve to A position

bages.) dasoline engine is in the other Run the engine. (How to run

from **A** position to **B** position. In this way the chemicals will be mixed in the presticide tank.

Turn the mixer valve of pump



