

FORZA 25 SP

INSTRUCTIONS MANUAL FOR A MOTORIZED BACKPACK SPRAYER



 **SP Systems**®

USERS' MANUAL
BN818.002-1002-E/EX
REV.00

Dear Customer:

Congratulations for purchasing one of the best motorized sprayers on the market.

To obtain best results, we recommend you take a few minutes to read and understand the instructions for using the sprayer, as well as its care, maintenance, and solutions guide to correct any damages that your sprayer could get.

Parts diagrams and disassembly of instructions are also included for you to order the necessary spare parts, should your sprayer need them.

We again thank you for your preference.

FEATURES

- ✓ Double piston pump that supplies constant and sufficient pressure to your sprayer; additionally, it considerably reduces vibrations and pounding.
- ✓ Centrifugal clutch that gives the pump and the motor independence to ease ignition, filling of the fuel tank, and for other operations.
- ✓ Manufactured with a speed reducing pinion that extends the useful life of both the pump and the motor.
- ✓ **Flat fan and constant spraying nozzles with one hole only, to avoid obstruction, and that also offers good coverage and penetration even in dense foliage.**
- ✓ The hose can be placed on the left or the right side of the sprayer, as may be convenient. Unit can be operated with two hoses (guns) with two hands.
- ✓ The center of gravity of the unit is very low; therefore, operator's fatigue is reduced to a minimum.
The unit's parts are of the best quality:
Agrichemicals tank: High density polyethylene
Back: Cushioned to absorb motor vibrations
Support structure: Reinforced plastic, rust-resistant and light to facilitate handling
Motor base: Metal for longer useful life.
- ✓ Pump maintenance is very easy; it can be taken apart by loosening the screws, to access the checks. Supply and exhaust valves manufactured of stainless steel to last longer.
- ✓ Motor with electronic ignition, reliable even in very inclined positions; diaphragm carburetor, fuel tank below the motor for higher security.
- ✓ 6.7 gallon, 25 litre, tank for applying herbicides, insecticides, pesticides, fungicides and fertilizers, etc. on any crop. Also for disinfecting animals, stables, warehouses, etc.

1.- BEFORE IGNITION

1.1 Fill the fuel tank with gasoline and oil. 4 cycle engines do not require an oil or gasoline mixture.

1.2 Adjust the hose and nozzle connections perfectly. Make sure there are no seals missing.

1.3 Verify that the filter and the tank drain plug are secured before filling it.

1.4 When preparing the mix, add water to half the tank; add the chemical, and fill with water.

2.- IGNITION

2.1 Lift the choke lever and pump the primer located next to the fuel tank a few times, until the fuel return transparent hose is filled up.

2.2 move the acceleration lever upwards approximately one third.

2.3 Pull the starter cord until the motor turns on.

2.4 Open the choke slowly depending on the motor temperature.

2.5 Once turned on, move the choke slowly to its limit, while you observe the motor operation.

2.6 Leave the motor at low speed for some minuts before beginning the spray work.

2.7 If the motor does not turn on easily, take off the spark plug and do the following:

a) Ensure the spark plug produces sparks when starting.

b) When there is too much gasoline flow, the spark plug dampens. Dry it.

NOTE: Always consult the instructions manual.

3.- SPRAYING

3.1 Elect the desired pressure turning the ribbed knob clockwise (high) or counterclockwise (low), depending on the work to be performed. Remember that to apply herbicides, the pressure must be low. For fungicides, insecticides, and foliators, higher pressure can be used.



3.2 Hold the spray lance well and begin the spraying operation.

3.3 When working at high pressures, preferably secure the gun lever with the continuous application safety latch.

4.- EQUIPMENT SHUT-OFF

4.1 Lower the accelerator lever completely, push the shut-off button and the machine will stop working.



5.-CLEANING

5.1 Empty the residues left in the chemicals tank, using the drain outlet.

5.2 Fill the tank with clean water, run the motor a few minutes, pour out the water until it is transparent. Then turn the motor off and empty the tank completely using the drain outlet. This operation will help extend the life of the seals and prevent any obstruction of the checks.



5.3 When the equipment will not be in use for some time, empty the fuel tank.

6.- MAINTENANCE

6.1 Disconnect the supply and return hoses from the pump loosening the respective clamps.



6.2 Take the caps off the cylinder, loosening the screws.



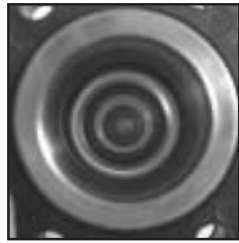
6.3 Take the cylinder off of the pump.



6.4 Withdraw the supply and exhaust check valves from the cylinder (they are located next to the cap); wash the pieces if necessary.



6.5 Take the seals off the cylinders (next to the pump); wash the pieces if necessary.



6.6 Replace the check valves in the same position they were located previously.

6.7 Replace the caps and tighten the screws firmly.

COMMON PROBLEMS AND POSSIBLE CORRECTIONS

PROBLEM	CAUSE	SOLUTION
1.- The mix does not move	<p>a) Air intake through the supply hose and coupling.</p> <p>b) Air intake in the cylinder, causing pressure problems.</p> <p>c) Valve stuck to the seat.</p>	<p>Tighten the clamp securely to the hose.</p> <p>Open the knob for all the air to come out.</p> <p>Take the valve off and repair it following the correct order.</p>
2.-Lack of pressure	<p>a) The pump does not suck the liquid.</p> <p>b) Although liquid is suctioned, it does not produce a good spray.</p> <p>c) When the regulator valve or the seat is scratched or full of dust.</p> <p>d) The clutch skids.</p>	<p>See item 1:</p> <p>Check the outflow of liquid. if it is strong, change the nozzle.</p> <p>Take the pressure regulator valve or the seat if it is scratched.</p> <p>Increase the speed of the motor.</p>
3.-Liquid and/ or Orings are leaking	Leak through seals.	Change the faulty seals and rings.

SPECIFICATIONS

Model		FORZA 25
Dimensions (L x A x H)		41x35x64 cm. 16.4x14x25.6
Weight		9.9 Kg. with one gun 22.3
Liquid tank capacity		6.7 gallons 25 litres
Pump	Type	Double piston
	Maximum flow	2.6 GPM 9.6 lts/min.
	Pressure (BAR)	10-22 BAR (with a limit)
	Nozzle type	NN-D-6 (Wide coverage)
Consumption per nozzle		.30 GMP 1.16 lts./min. per nozzle (at 20 BAR)
Hose		Int.diameter 7.5, BP 120 BAR, length 1250 mm
Motor	Type	4 cycle air-cooled
	Cylinder capacity	24.5 cc
	Maximum power	0.88 kw/7000 RPM
	Fuel tank	0.6 litres
	Carburator	Diaphragm type
	Ignition system	Electronic

Due to the interest in technological progress, the company reserves the right to make technical changes without previous notice.



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