User Manual

ROBOT SPRAYER

(SOL- SM100)

Please read before use for safety.

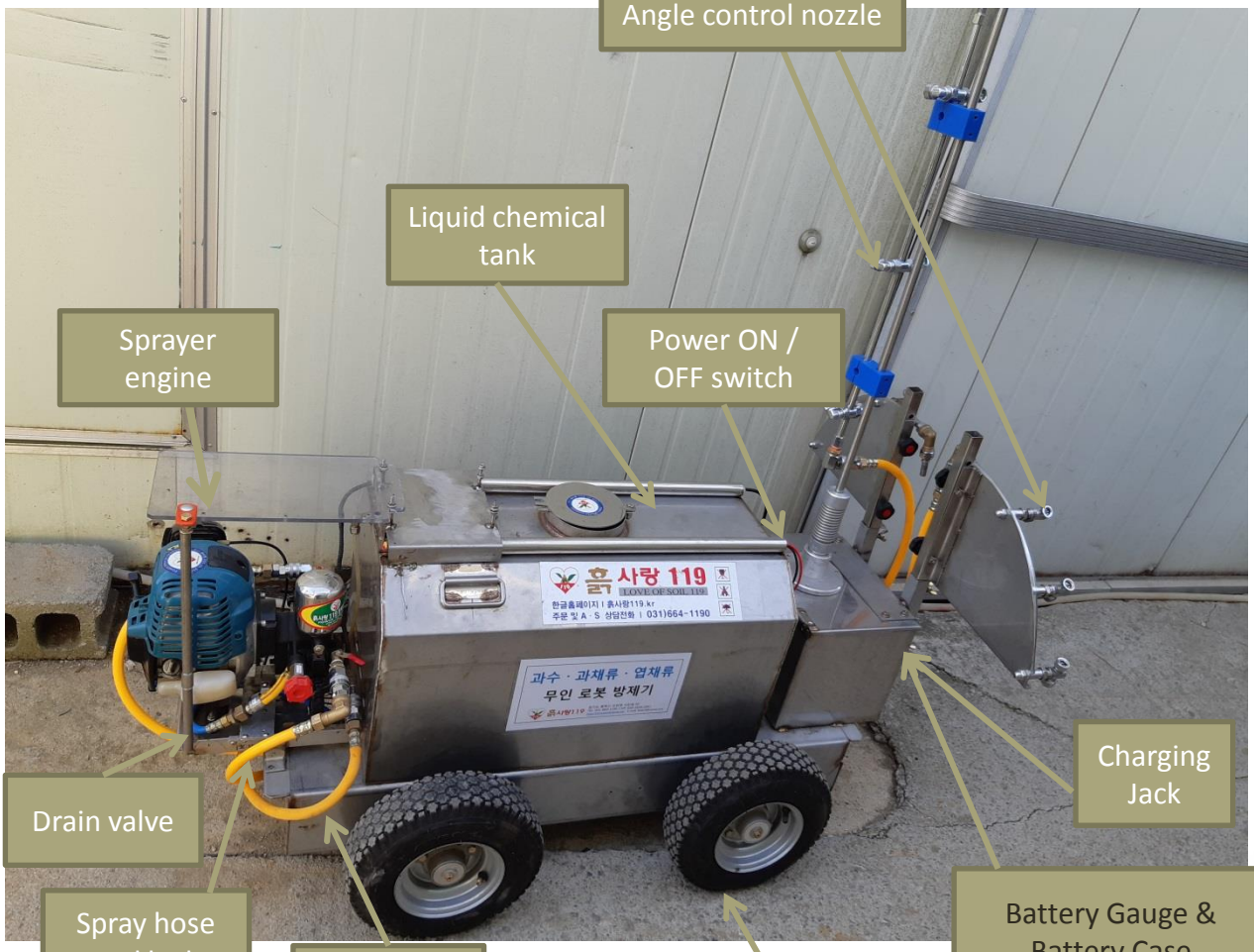


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1) Construction of the product

※ Make sure that you should get familiar with the construction of the machine before you operate SOL-SM100.



2) Safety precautions

A) Proper operation of the machine and right positions and postures of the operator

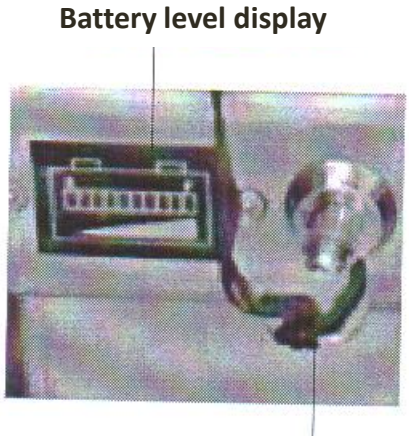
- Check frequently with the chemical tank for liquid level and with the battery for charge level.
- Do not let the machine run idle for longer than 5 minutes when there is no chemical left.
- There is a risk of the spray pump getting damaged when the machine runs idle long.
- Bring the spray job to an instant stop when there occurs any abnormal situation during spray.
- Avoid performing spray jobs that go beyond the specified instructions, which may lead to damage to the machine.
- Exercise special care when you work on slopes for fear that the machine may be overturned. (An inclination of more than 20 degrees is dangerous.)

B) Precautions for any persons other than the operator

- Do not give the engine key to any person other than the main operator and let the person operate without providing instructions on the operation of the machine in advance.
- Be sure to check the battery for charge level before you start the engine with the power key.

3) How to use the sprayer

A) Operation of the sprayer



① Start the sprayer by turning the power key and then switch ON the sprayer pump.

② Switch ON the power of the operation remote controller.

③ Press the spray stop button once, and the sprayer starts; and, press the spray stop button once again, and the sprayer comes to a stop.

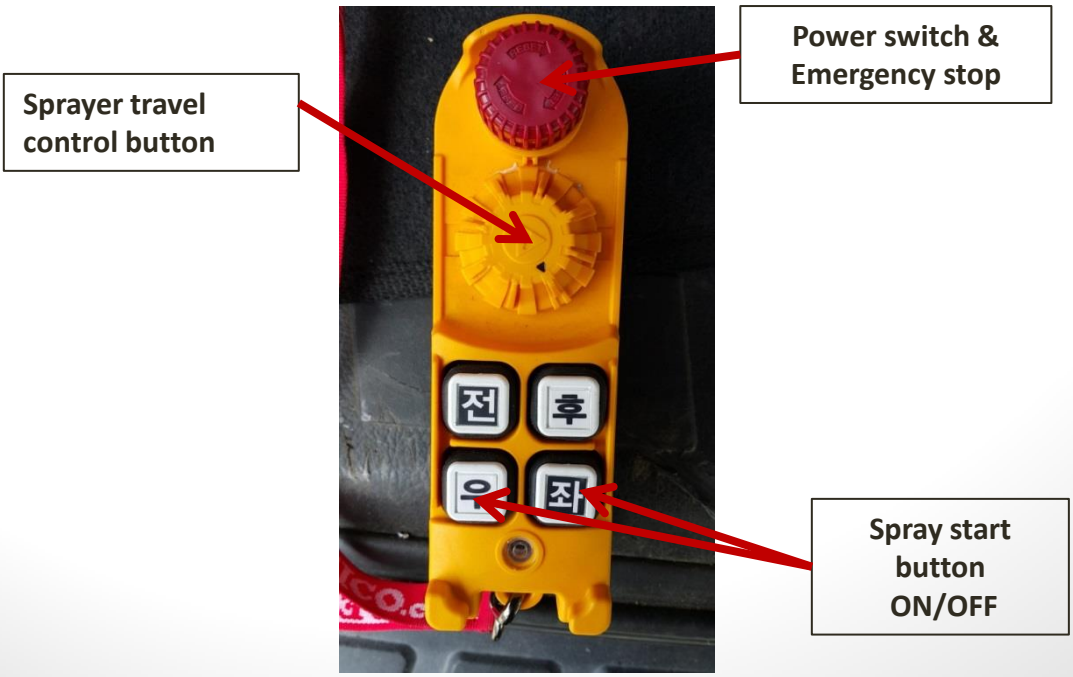
④ When you press the lance control button while the sprayer is in operation, the shaft rotates or tips left or right.

B) Operation of the sprayer

① Turn on the power key of the sprayer to start the machine and switch ON the remote controller.

② Press the [Forward] or [Backward] button on the remote control, and the sprayer starts to move.

③ Press the [Left] or [Right] button while the sprayer is in operation, and the machine changes directions.



4) How to check powered sprayer

A) Charging the battery

① Be sure to charge the battery when the red lamp of the battery level display comes on.
② Place the powered sprayer on flat land and turn OFF power with the power key.
③ Connect a power cable to the connection jack of the charger of the carrier and the power plug to a 220V mains outlet.



Charging terminal



CHARGER

④ When charging is completed, the red lamp disappears and the green lamp comes on.

⚠ Precautions:

- Start charging the battery when the yellow lamp goes off on the battery level display.
- Check if the battery is in good or poor condition when it is not fully charged in 8 hours.
- Do not disassemble or repair the charger at your discretion, which may result in a fire or an electric shock.
- Charge the battery frequently as it gets fully discharged.
- Avoid touching the housing of the charger during charging, for it is very hot.
- Charging times may differ depending on its discharge levels.

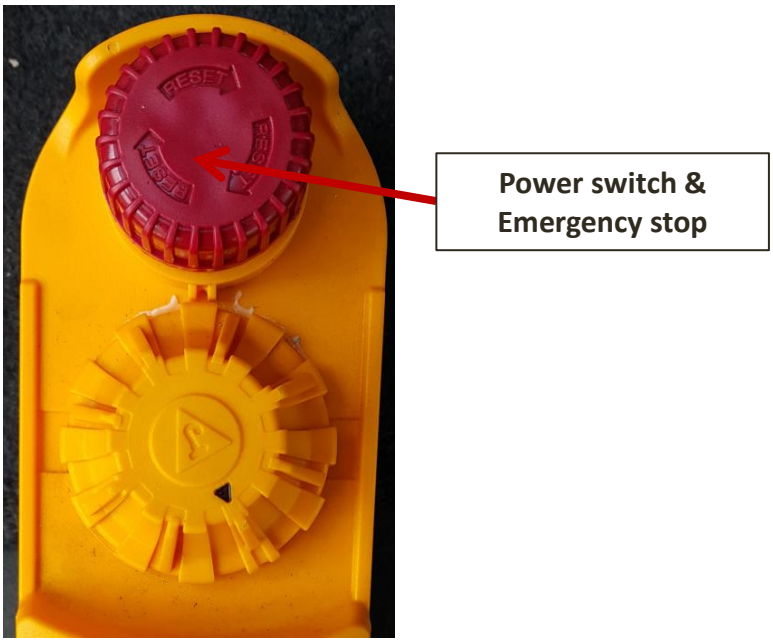
B) Battery change

① Turn off the power to the sprayer with the ignition key.
② Separate the liquid chemical tank from the sprayer using a driver and disconnect the upper cover of the sprayer.
③ Separate the connection jack of the battery and hold the battery handle and pull it out.
④ Mount a new battery, fix it, and connect the connection jack again.
⑤ Re-assemble the tank and upper cover to their original positions using a driver.

C) Checking the caterpillar tread

① Avoid sharp protrusions when you drive the machine
② Check if the tread has been spilt or torn.
③ Change the tread when it has been worn seriously.
④ Avoid long-time exposure to direct sunlight, snow, or rain.
⑤ You are recommended to use a tread of equivalent specifications when you change it.
⑥ When the tread needs changing, loosen the tension bolts, pull out the tread, mount a new tread, and adjust the tension by pushing the tension bolts in place.

D) Bringing the sprayer to an immediate stop



This function should be used in case of an emergency situation. Press the button, and the spray in operation comes to an instant stop.
Turn the handle to the Arrow direction until it pops out, when the emergency stop is released and the machine can be set in operation again. (The machine begins to operate normally only when the handle comes out.)

5) Post-operation checkpoints

A) Regarding important checkpoints and inspection methods

- When a spray job is completed, do not turn off the sprayer but clean the inside of the tank completely with clean water.
- Continue spraying until the clean water runs out and air comes out of the nozzle.
- Bring the sprayer to a stop when air comes out for the nozzle.
- Clean the foreign matter stuck on the exterior and tread of the machine for later operation.

B) Regarding treatment or disposal of the materials used

- The liquid chemical left in the tank is advised to discharge into a separate tank for storage using the drain valve.

C) Regarding long-term storage

- Keep the machine in the well-ventilated shade out of the reach of children.
- Place the sprayer in a place that can avoid rain or snow.
- Drain the water in the pump and hoses completely in order to prevent them from being frozen.
- Pull out the power key and keep it separately.
- Be sure to turn off power when you perform checks and inspections.

6) Other necessary actions

A) Regarding inspection and repair work the operator is not authorized to conduct

- **Regarding inspection and repair work the operator is not authorized to conduct**

- Be sure to consult us for any modification or change of items before you proceed with it. Make sure that you should use only specified or permitted items.

- Be sure to use spare parts provided in the tool box or authorized by us.

- We are not responsible and liable for any defect when it results from the use of an unauthorized or unspecified part, for the act violates the terms and conditions of the quality warranty.

- You are recommended to bring your machine to a designated workshop when your machine requires disassembling or changing important parts.

- We are not responsible and liable for any failure when it results from or in connection with arbitrary disassembly or repair on the user's side.

MEMO

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