

SERVICE MANUAL

WP5-2

5L RECHARGEABLE SHOULDER SPRAYER

SERVWP5-2 REV A – 11/09/2025



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TROUBLESHOOTING GUIDE

START HERE

This guide is organised to help you quickly identify, troubleshoot and resolve common problems with your sprayer. Use the table of contents below to navigate directly to the section that best matches your concern, whether it involves operation, maintenance, component replacement or troubleshooting.

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1. Spray System

This system delivers liquid from the tank through suction hose, diaphragm pump, spray gun, spray lance and nozzle. Common issues include blockages and leaks.

1.1 Possible blockages

Inspect for possible blockages

- a. **Nozzle tip:** disassemble Nozzle tip and non-drip valve, check for dirt, debris, or chemical residue. Rinse with clean water and reinstall. **Note: A damaged or missing non-drip valve may cause nozzle dripping.**



- b. **Suction filter blocked:** The filter is located inside the tank, connect to the suction hose. Use a hooked tool (e.g. bent wire or hanger) to pull the suction hose out of the tank. Inspect the filter for blockages or residue. If dirty, disassemble the filter and rinse all parts with clean water before installing.



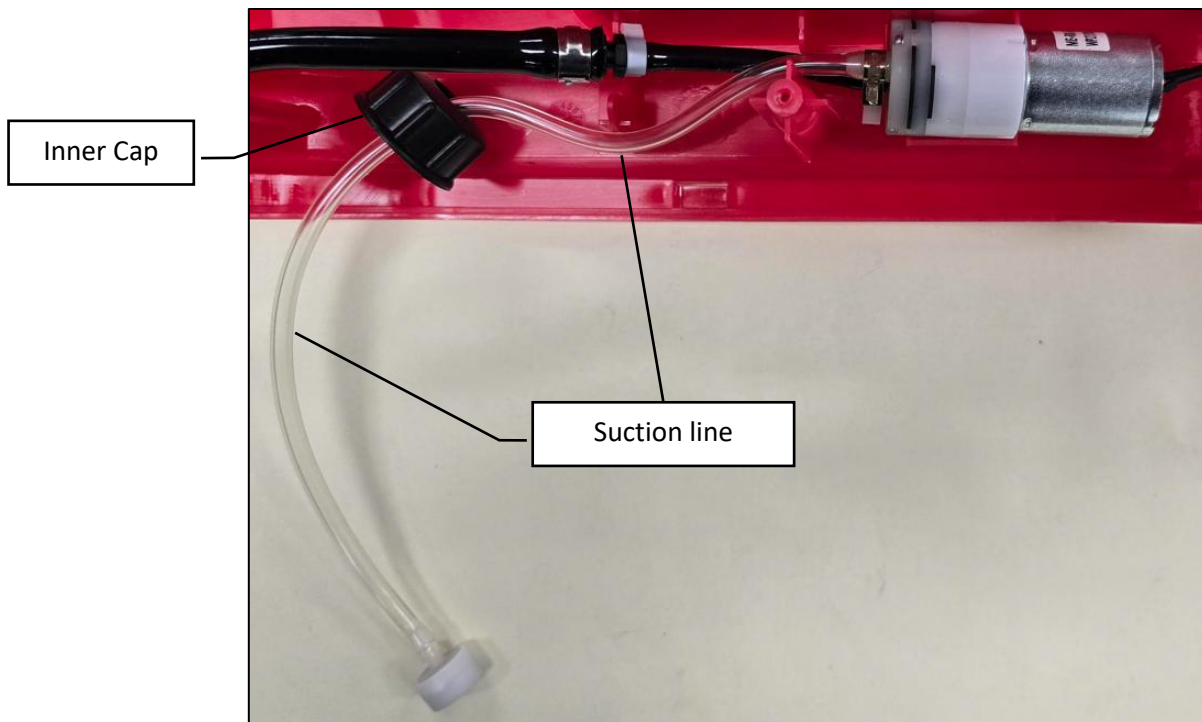
- c. **Hose kinked inside of the spray handle:** Unscrew the screw located on the gun hanger. Gently pull out the spray lance. Check if the internal hose is kinked. Straighten the hose by pulling the hose on the other end and then reassemble.



- d. **Hose kinked near the internal cap:** Check the spot as circled below. If the hose is kinked, squeeze to straighten it. Please refer to [Section 4. Removing Red Upper Housing.](#)



- e. **Suction line blocked:** Remove the inner cap from the tank and check the inlet suction line. Please refer to [Section 4. Removing Red Upper Housing.](#)



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1.2 Pump runs but no suction

Diaphragm/rubber seals inside the pump have swelled or degraded due to chemical attack. There are three screws located at the top of the pump, unscrew them to access the inside the pump and check the rubber seals. Please refer to [Section 4. Removing Red Upper Housing](#).



1.3 Leaks

1.3.1 Sprayer Lance leaking

Check the rubber sealings are present and properly seated.



If leakage occurs at the end of the thread fitting, the fitting may have been improperly pressed during manufacturing.



Replace the lance with spare part: **WP5-2-3**.

Refer to [Section 5. Replacing the spray lance](#).

1.3.2 Filer Cap leaking

If leaking occurs from the cap breather hole, the cap is defective.

Replace the cap with spare part: **WP5-1-1**.

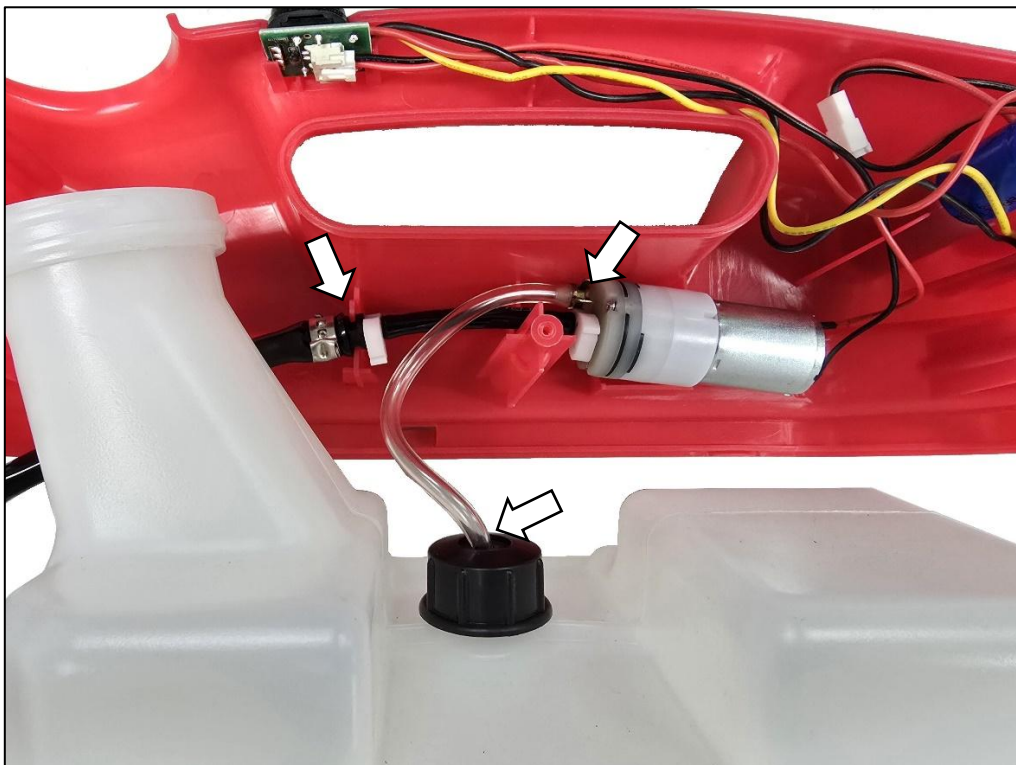


1.3.3 Leaking between the Red Upper Housing and Tank



Refer to [Section 4. Removing Red Upper Housing](#).

Inspect the hose connecting to the pump, ensure they are securely connected.



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2. Power System

This section covers the components responsible for supplying power, including USB charging socket, power control board and the battery. If sprayer does not power on, troubleshoot here.

2.1 USB charging socket fault

Check the USB Type-C charging socket located on the side of the tank. Ensure the socket is not damaged.



2.2 Power control board fault

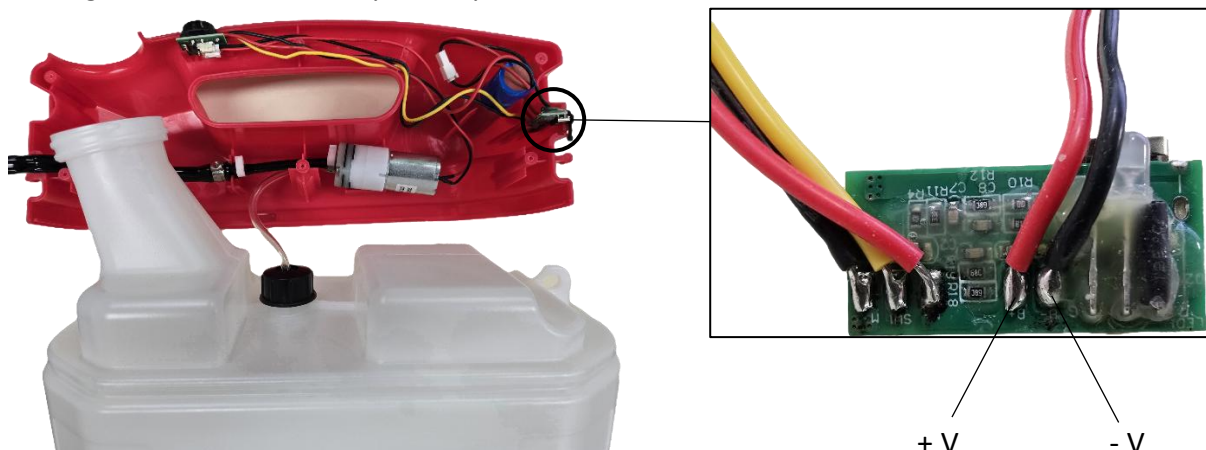
If USB charging socket is not damaged, connect the sprayer to a known working power source using a USB Type-C cable. Check the power LED on the side of the tank:

- If the power LED does not illuminate, the power control board is faulty.
- If the power LED shows **green**, proceed to [Section 2.3](#) to inspect the battery and wirings.
- If the power LED shows **red**, indicate battery is functional but has a low voltage. Charge the sprayer unit until the LED turns **green** (approx. 3 hrs). After charging, disconnect the Type-C cable to the sprayer and press the power button on the top of the Red Upper Housing. If the sprayer still does not work, refer to [Section 3](#) to check the pump.

2.3 Battery and wiring fault

Refer [Section 4](#) to disassemble the Red Upper Housing, check all the wires are securely connected and soldered. Inspect wires for damage or squashed insulation.

Remove the power control board from the housing, keep all the wirings connected and measure the battery voltage on the power control board as highlighted, if reading voltage is below 2.7V or no reading is detected, the battery is faulty.

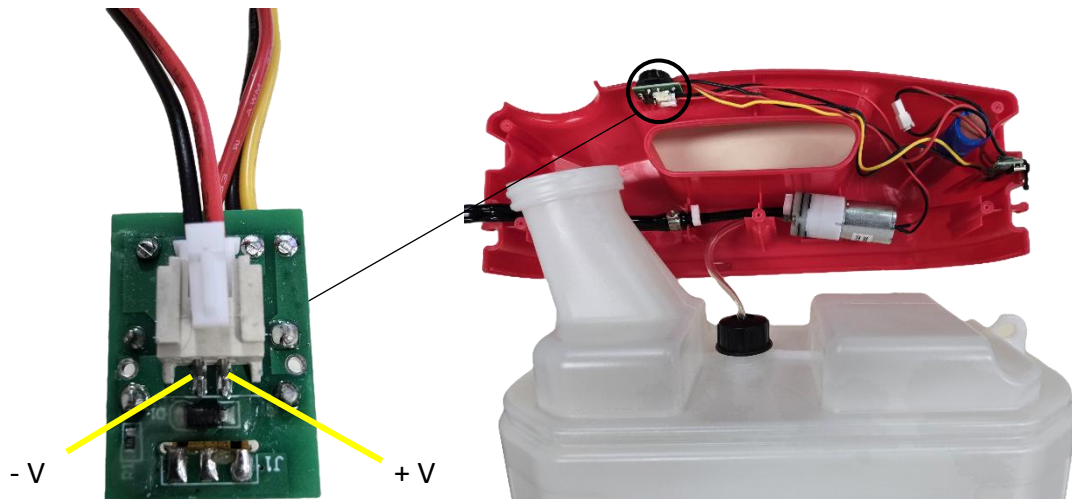


3. Pump system

This section addresses failures where the pump does not operate when the sprayer is powered on.

3.1 Pump does not run

Disassemble the Red Upper Housing (refer [Section 4](#)), check all the wires are securely connected and soldered. Remove the power button from the housing while keeping all the wirings connected. Measure the pump resistor at the test point, refer circled location in the picture. If the multimeter shows no reading or “OL”, the pump coil is faulty.



4. Remove Red Upper Housing

For in-depth inspection, some components require removal of the red upper housing. Follow these steps carefully to avoid damage.

1. Empty liquid the tank
2. There are 6 screws securing the housing, use a long Phillips screwdriver for access.
3. Remove the screws and carefully lift off the housing to access the internal parts.



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5. Replacing sprayer lance

1. Empty liquid the tank
2. Unscrew the screw on the gun hanger and gently pull the lance.
3. Cut the hose section at the point where it connects to the spray lance barb.
4. Slide the spring clamp onto the hose
5. Insert the new lance barb to the hose.
6. Use pliers to compress and position spring clamp, then release
7. Reinstall the lance into the gun handle while gently pulling the hose from the opposite end to prevent kinking
8. Reattach the screw on the gun hanger.

2.



3.



3.



4.



6.



7.



8.



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SPARE PARTS



	Part Number	Description
1	WP5-1-1	LID TO SUIT WP5-1 AND WP5-2 SPRAYER
2	WP5-2-3	SPRAYGUN SUIT WP5-2 SPRAYER -LONG LANCE