



READ THE USE AND MAINTENANCE HANDBOOK

Check electrical equipment

Check the functionality of the electrical equipment:

- brush motor (the motor starts pushing both **brush switch** and **control levers**);
- suction motor (the motor starts pushing the **suction switch**);
- solenoid valve (it starts pushing both **solenoid valve switch** and the **control levers**).
- Check the functionality of the **display** in the middle of the instrument board:
 - Turning on the machine, first the letter "G" will appear with card setting on gel batteries and then the number indicating the charge level;



- In working mode it indicates the battery charge (4 = full, 0 = empty, the brush motor goes off).



- Check the tightness of the **battery contacts** and **faston cables** into the electric box situated on the front side of the machine (behind the black ABS cover under the solution tank).

WARNING

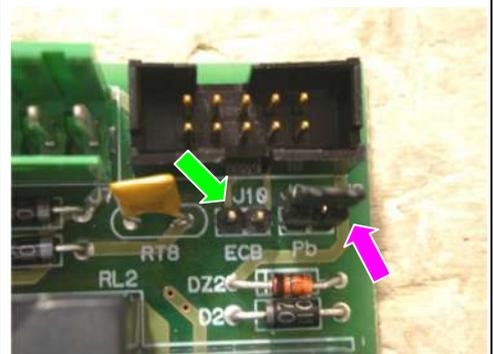
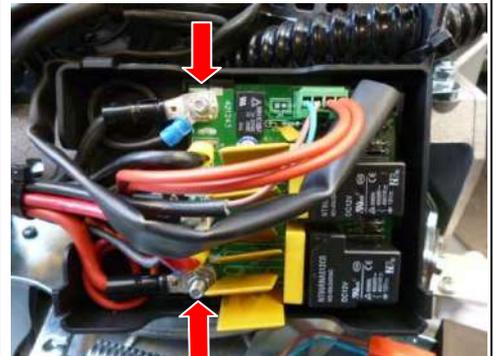
If lead acid battery is installed, put the **jumper** on the pin with "Pb" label as indicated in the picture (switching on the machine, it will appear the letter "P" instead of the "G" letter).



There are **two pins** nearby with the writing "ECB". In case of breakdown of the control battery, inserting a jumper you can bypass the control and keep on working up to the discharge of the battery.

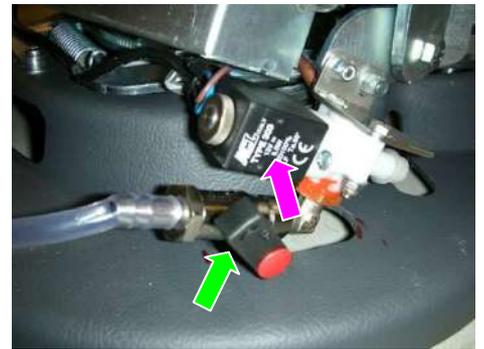
WARNING

use this workaround only in case of emergency, check immediately the fault, replace the probable broken component and restore the standard working condition of the machine. Otherwise the battery will be completely discharged and it could be damaged irreparably.



Check the water system

1. Fill the solution tank and check the seal and tightness of the tubes and gaskets, particularly on the **solution manual valve** and **solenoid valve**.
2. Check that the water flow on the floor is uniform and proportional to the opening of the cock. In any case check the cleaning of the cock.
3. Check the **quick coupling**.

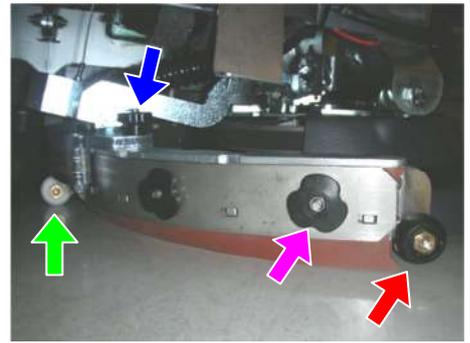


Check the suction system

1. Check the cleaning and functionality of the **filter with ball**.
2. Check, when closed, the sealing and airtight of the **cap** on the recovery tank, verifying the good wear and adherence of the **gasket** on the flange filter.
3. Check the right position and sealing of the **muffs** on the recovery tank cap.



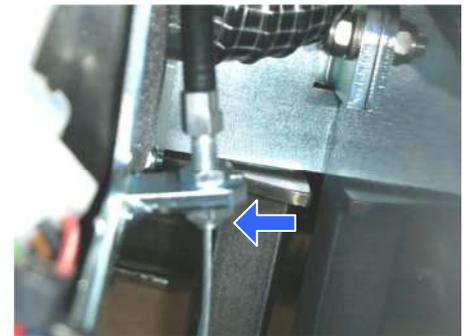
4. Check the wear of the squeegee rubber and the right closing of the **knobs**.
5. Check the closing of the **knobs** of the squeegee blade.
6. Adjust the **side squeegee wheels** in order that the wheels must be flush with the squeegee blade and that the **central wheel** shall be all low.



7. Screw the **lock nut** so that there is clearance between the arm and the squeegee support. Unscrew lightly the lock nut if the squeegee lifts up when it turns.

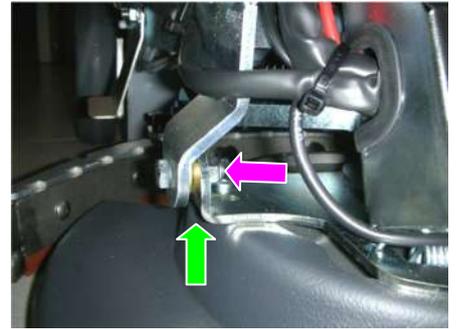


8. Adjust the rope of squeegee control so that the threaded is out of **1-2 mm.** on the squeegee side and 5-6 mm. on the knob side.

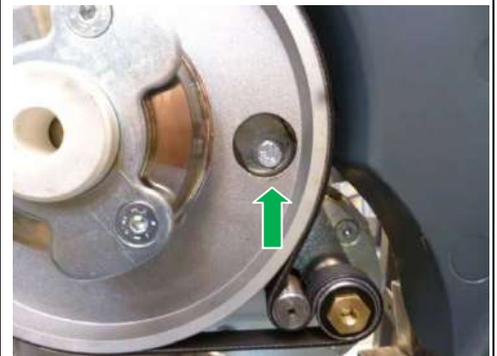


Check brush base

1. Check that the **brush base support** on the right side is free to move inside the hole of the frame arm. This allows the brush base to adjust itself on the floor. If necessary unscrew lightly the **lock nut**.



2. Check the tension of the belt. If necessary move the spring of the tensioner on the **appropriate hole**.
3. If needed loosen or screw the **nut** related to the support of the tensioner.



Check battery charger

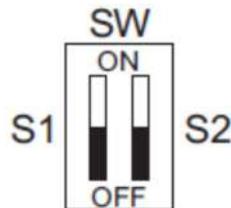
1. Check that the battery charger makes the initial test:
 - a. **Red led** on for one second.
 - b. **Yellow Red** on for one second.
 - c. **Green Led** on and flashing. The number of flashing stands for the setting done on battery charger (check table here below).
2. Check the working of the led during charging phase of battery charger:
 - a. **Red led** fixed: first phase of charging ended correctly.
 - b. **Yellow Red** fixed: second phase of charging ended correctly.
 - c. **Green Led** fixed. Charging phase is ended or maintenance phase active.
3. In case of trouble related to battery charger, the led can sign out the type of anomaly:

yellow led on + 1 flashing for green led	Battery is not connected or short circuit or reverse polarity.
yellow led on + 2 flashings for green led	Time-out Alarm: defective battery.
yellow led on + 3 flashings for green led	Alarm for Defective Battery Charger.
Red led on + 1 flashing for green led	Overvoltage alarm.

4. Battery Charger Set Up.

To set up correctly the battery charger, do the following:

- a. Take away the small **plastic cap** with a screw driver.
- b. Set up the dipswitch according to the table here below.
- c. Close the plastic cap.



S1	S2	Battery Type	Number of Flashing (Green Led)
OFF	OFF	Lead	1
ON	ON	TROJAN GEL	2
OFF	ON	Normal GEL or AGM	3
ON	OFF	Sonnenschein GEL	4



Functional check

- Check the switches and lamps functionality;
- Check the brush base functionality;
- Check the brush motor functionality;
- Check the squeegee functionality;
- Check the suction motor functionality;
- Check the battery charger functionality;
- Check the conditions of battery, connectors and cables;

Functional test

- Fill the solution and recovery tanks and check if there are leakage;
- Check that there are not leakage on the water plant and that water fall in the center of the brush;
- Check the functionality of water cock and solenoid valve;

Final test

Check all functions: cleaning, drying.