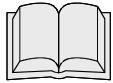


REPLACE AND DELETE THE DOCUMENT RC2302 REV 01 OF 10/2005 ISSUED 06/2004-MZ



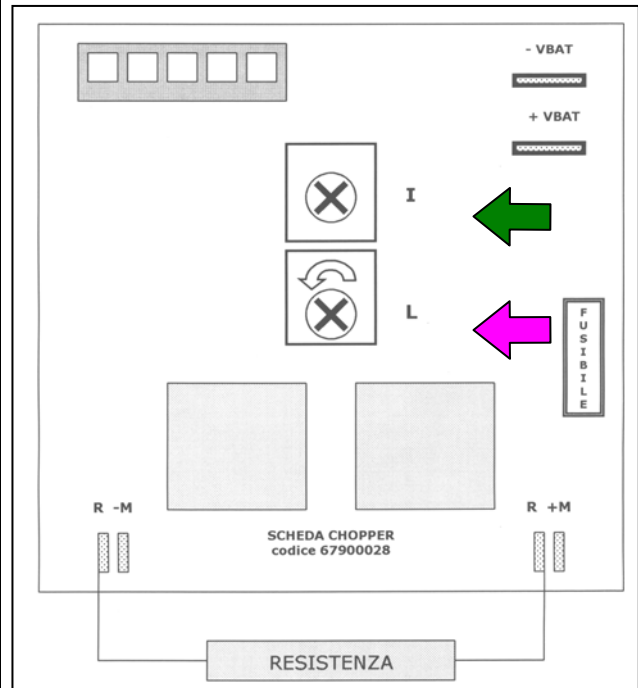
READ THE USE AND MAINTENANCE HANDBOOK

Inspection of the electrical layout

1. Check the functions of the electrical layout: switches, motors, solenoid valve.
2. Check the **control functions and the coupling and uncoupling of the brushes.**

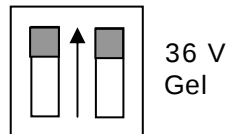
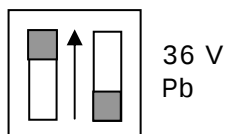
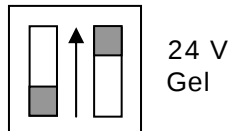
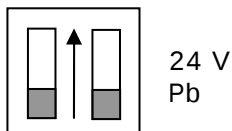


3. Control the operation of the **chopper** (Machine with traction).
4. If necessary adjust the **chopper-card** as follows:
 - Lift the machine (Traction wheels without contact to the floor)
 - Open the handlebar unscrewing the four underlying screws
 - Fix the clamps of the tester (V-DC) to the connections **M+** and **M-** of the chopper-card
 - Switch on the main key
 - Insert the forward gear until the **1° Microswitch** snaps (first speed)
 - The tester should indicate **9-10V**. If necessary adjust the **trimmer "I"** (first speed), so that the above mentioned voltage is obtained
 - Activate the forward gear completely, so that the **2° microswitch** snaps. The tester must indicate **24V** (max. battery); Otherwise control the voltage of the battery and control the cables.
 - Acceleration adjustment: Set the **trimmer "L"** (ACC), so that its position is turned clockwise about **30°/45°** to the central position. With this adjustment you obtain the desired voltage (**9-10V or 24V**) in about **4 seconds**.
 - Check the function **reverse gear**
 - Check **motor braking** (after release of the handle bar the machine should stop in about 1 meter).

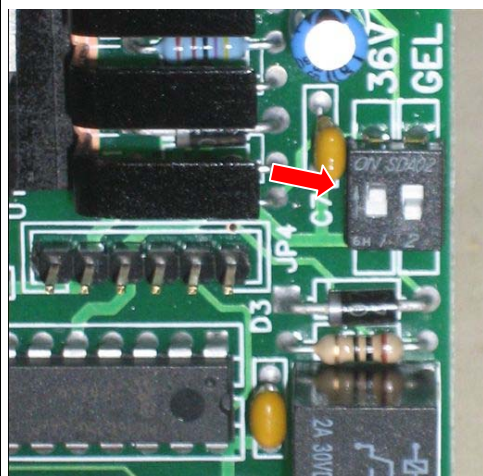
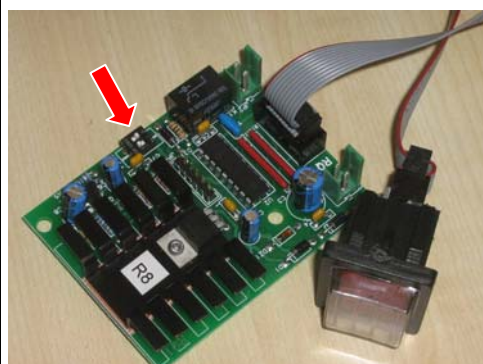


Adjustment battery check card

1. Check-up the right set-up of the battery check card. The adjustment can be performed by **microswitches**.
2. The possibles configurations are the following:



The right configuration is one of the two above depending on the battery type.

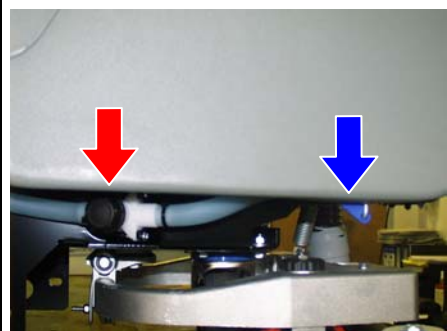


Inspection waterworks

1. Check the cleanness and the positioning of the **solution tank filter**.



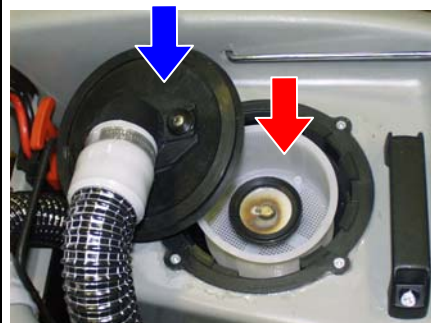
2. Fill the solution tank completely with water.
3. Check the tightness of the hoses, **solenoid valve** and regulation of the **cock**.



4. Make sure, that with opened cock the solution arrives continuously on the floor.

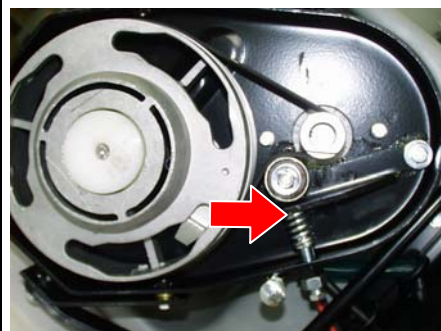
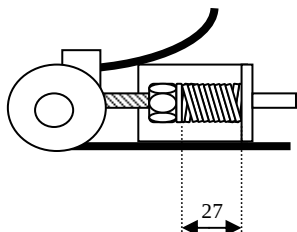
Inspection of suction

1. Check the function of the **filter – float**.
2. Check, if the **cover** on the recovery tank is airtight.
3. Check if the suction hoses and the **squeegee hose** are airtight.
4. Check the tightness of the **squeegee opening**.
5. Verify the tightness of the exhaust pipe and tap.

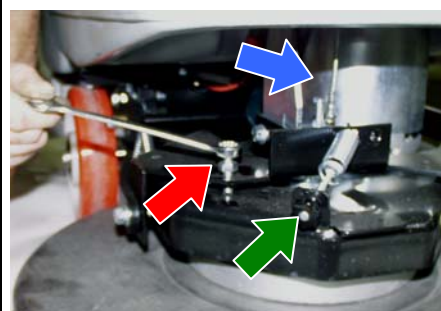


Adjustment brushes – Forward movement (Simpla 61)

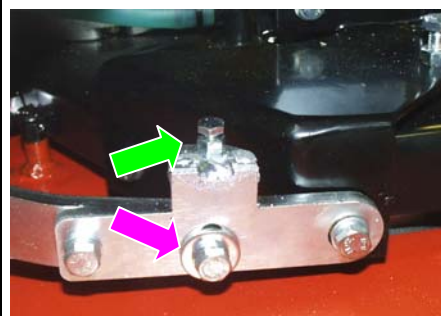
1. Adjustment **spring belt tightener** to a compression length of 27 mm.



2. Adjustment inclination: Let down the brushes and adjust the distance of the **screw M8** to the brush base about 1 mm. Afterwards fix the nut. Excessive screwing leads to the effect, that the machine pulls to the right.
3. Adjustment advancement without traction: Screw the **knob** with the plastic thread. Attention: excessive screwing increases the traction effect and decrease at the same times the width of the cleaned floor.
4. Adjustment inclination on machine with traction: if necessary adjusts the **Knob** in a way, that neutral machine behaviour is obtained.
5. Adjustment Point III: Adjustment **screws M6**, so that with lifted brush bases an inclination about 3-4 cm of the brush is obtained. Make sure, that the brush motor does not touch the solution tank. Fix the **nut**.



6. Loose the **side screw** and adjust the **screw M8** until it arrives on the lower buttonhole, so that it assure the correct support of the brush on the back. Fix the side screw.



7. Adjust the **support screw**, so that the weight of the tank does not rest completely on the frame; fix the nut.
8. Adjustment of the tie rods: adjust the fork of the **vertical tie rod**, so that with lifted brush head no interferences with the tank occur.



9. Adjust the fork of the **horizontal tie rod** and avoid, that the lifting arms of the brush base do not touch the frame and the brush cover does not have contacts with the solution tank. Furthermore check, if without brushes the brush holder touches the floor (0-1 mm).

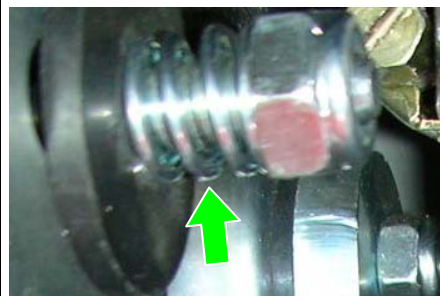
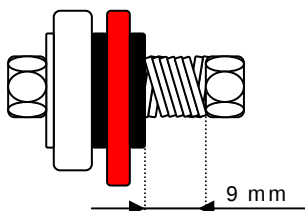


Brush assembly adjustment (Simpla 65)

1. Clutch spring adjustment for the brush assembly adjustment.
Adjust the **self locking nut** to obtain a **spring** length of 9 mm.

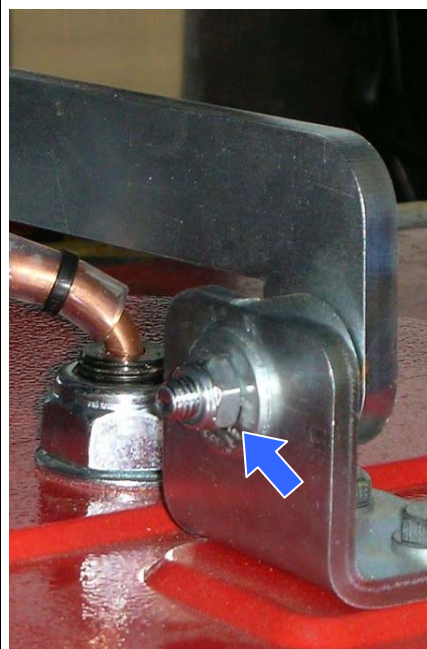
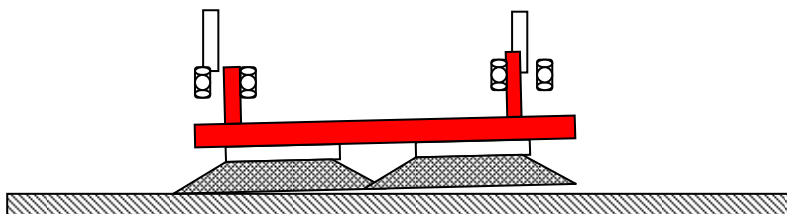
Warning: do not put fat on the spring to avoid brush assembly stability,

The right regulation gives to the brush assembly a gradual soft adjust.



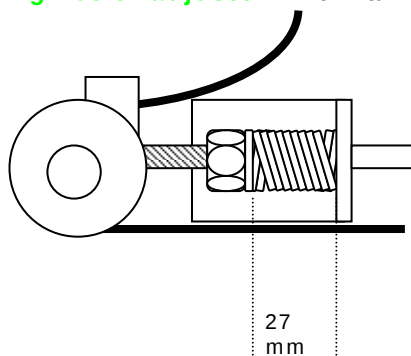
2. Transversal brush assembly inclination adjustment.

- Put the machine on an even leveled floor.
- Install the brushes and lower the brush assembly.
- Unlock the **nut** on the lifting left arm and let the brush assembly lie on the floor.
- The eyelet stirrup of the brush assembly will adjust itself automatically.
- Lock the nut and the screw.
- With this operation we'll assure a correct brush assembly alignment with the floor and we'll obtain a uniform cleaning.



1. Brush belt tension adjustment.

Adjust the **spring belt adjuster** with a **27mm** length in compression.



3. Fork adjustment on the brush assembly lifter tie rod.

The **nut** on the rear fork has to be completely screwed on the tie rod.

The distance between the nut of the front fork and the end of the rules has to be about **4-5mm**.



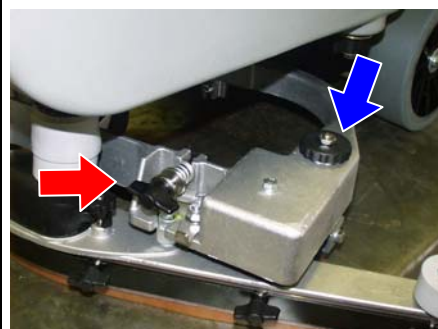
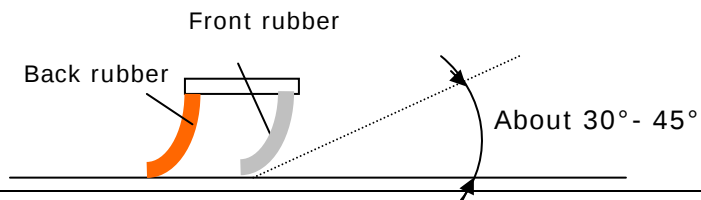
Brake adjustment

1. Adjustment hand brake: Verify if the **lever** does not snap more than 3-4 times. If necessary restore the right execution register the nut on the brake cable.
2. Adjustment of the brake disk. Verify the uniform brake effect. Try to turn the machine with insert brake to the left and to the right: Check if the wheels remain blocked in the same way.



Adjustment Squeegee

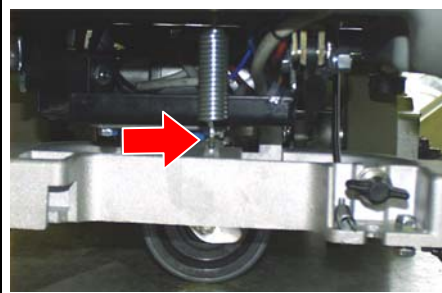
1. Adjustment of the inclination **controller** back rubber in working conditions, in order to obtain a uniform inclination.
2. Adjust the wheel height with the corresponding **hand wheel**. Check, if the rubber has an inclination about 30°-45° and is not pressed on the floor or in a lifted position.



3. Adjust the length of the lifting cable with the corresponding **controller**, until the back rubber is lifted about 4-5 cm from the floor. The squeegee should not have contact with the tank outlet. Afterwards fix the nut.



4. Check, if the **Spring ring** is completely closed.



Functional inspection of the machine

- ☐ Check the functionality of switches and lamps;
- ☐ Check the brush assembly functionality;
- ☐ Check the functionality of brush motor;
- ☐ Check the functionality of the solenoid valve;
- ☐ Check the functionality of the squeegee;
- ☐ Check the functionality of suction motor;
- ☐ Check the functionality of handbrake;
- ☐ Check the conditions of battery connectors and cables;

Functional test of the machine

- ☐ Fill the tanks with water and check their tightness;
- ☐ Check that solution fall on the brushes equally;
- ☐ Check the squeegee wheels with a functional test;
- ☐ Adjust the brush pressure and the brush assembly inclination doing a functional test;
- ☐ Check the functionality of the water cock;
- ☐ Check the braking efficiency;

Final inspection

Check all functions: scrubbing, suction, forward- and reverse gear and emergency brake.