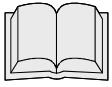


ADJUSTMENTS AND INSPECTIONS / ALL MODELS



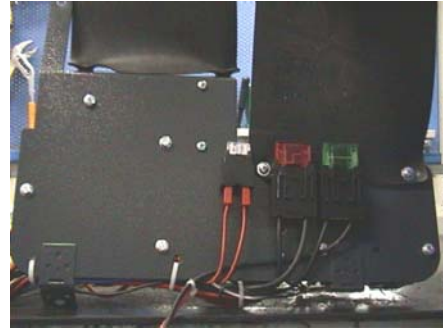
READ THE OPERATING AND MAINTENANCE MANUAL

Inspection Electrical Equipment

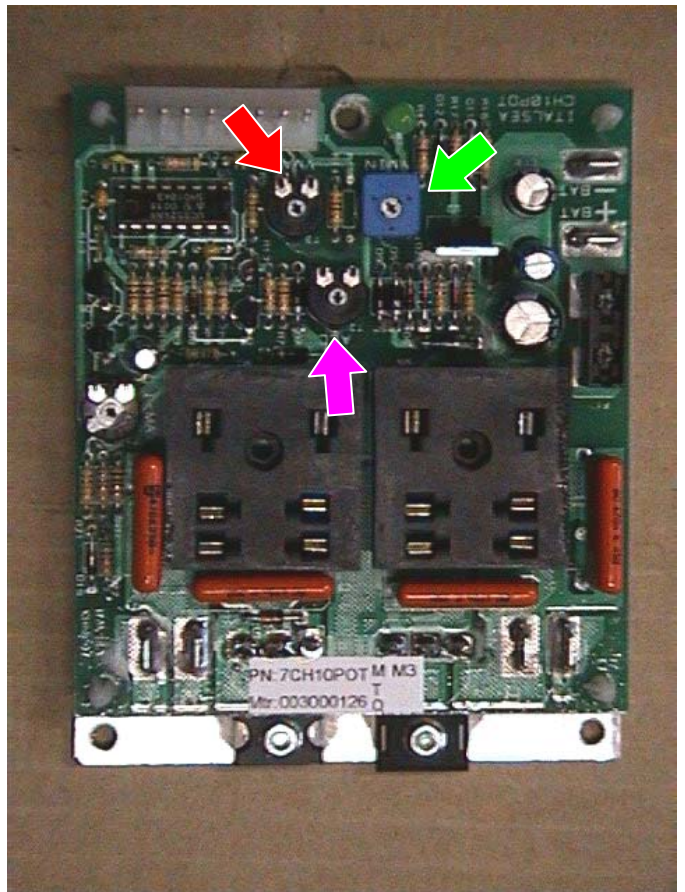
1. Check functionality electrical equipment: switches, motors, solenoid valve.
2. Check functionality control coupling-uncoupling brush, where this is assembled.



3. Check the condition of the fuses placed behind the rear grey panel



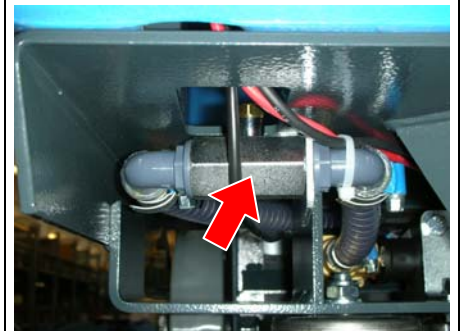
4. Check functionality **chopper** (traction machine)
5. If necessary set the **chopper card** proceeding as follows:
 - Lift the machine (traction wheels must be free)
 - Take off the rear screws to open the panel; take off the fixing screw and lower the complete electric group
 - Insert the tester prods (V-DC) onto the faston **M+** and **M-** of the chopper card
 - Switch on through the general key
 - Adjust **trimmer "ACC"** (acceleration) rotating the left screw up to the end, then position it on **45°**
6. Press onto the lever placed on the handle bar in forward movement, until the release of the drive relay is heard, then stop.
7. Adjust the **trimmer Vmin (minimum)** until the value on the tester is read, which is between **3-5 V**.



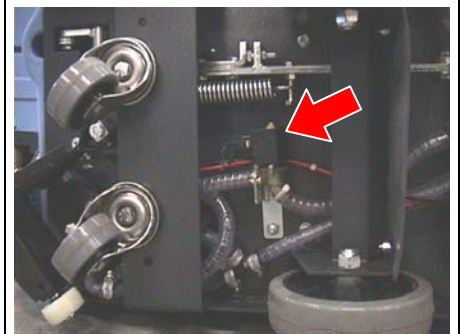
8. Push the lever on the handle bar completely forward, read on the tester the tension value: this should be equal to the battery tension, otherwise act upon the **trimmer Vmax (maximum voltage)**, until the tester indicates the correct value.
9. Recheck the minimum values with the **trimmer Vmin**. Bring the lever back to try the drive: check that the measured tension is less than the maximum value.
10. Check the motor braking releasing the drive: the machine must stop within 1 metre.

Inspection Water Supply

1. Check the cleanness of the transparent **solution filter**. Check also eventual water leakages.
2. Fill completely with water the solution tank.

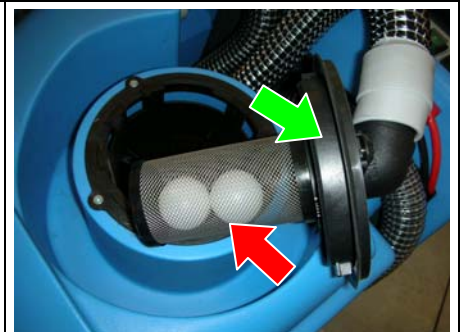


3. Check the tightness of the hoses, the **solenoid valve*** and the complete opening and closing of the water cock.
* THE SOLENOID VALVE IS AVAILABLE ONLY ON MACHINES WITH KIT
4. Check that the detergent solution, when the cock is open, arrives with continuity onto the floor.
5. With the closed cock, check that there are not any solution leakages



Inspection Suction

1. Check the cleanliness and functionality of the **filter float**.
2. Check the air seal of the **cover** on the recovery tank.
3. Check the connections and their tightness of the **suction hoses** and the **squeegee hose**.
4. Check the tightness of the **hose** and of the **exhaust plug**.

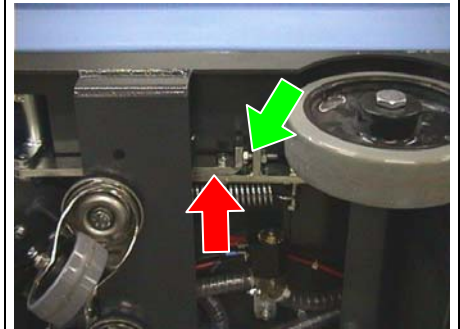


Adjustment brush – SINGLE BRUSH 450-500 B-BT / MOVEMENT SEMI-AUTOMATIC B

1. Adjust the **spring belt tightener** at a length of **27mm** (1,06 inches) in compression.



2. The **adjustment lever for the height** of the brush base placed under the machine, has to be adjusted always **with the brush base lowered onto the floor, without the brush**. Check that the lifting lever is in the highest point of the sliding slit, without hitting or forcing onto the frame. Furthermore, check that it slides to the right and to the left, with the lever stop being free.

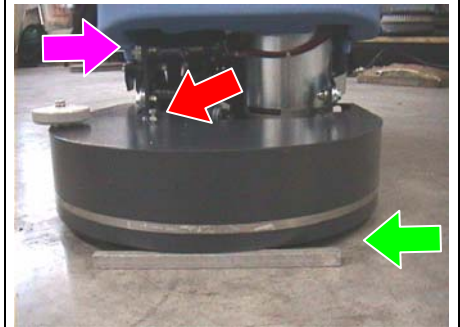


3. To get the correct functioning, act upon the screw **M8** placed on the lever under the machine, by screwing down or unscrewing until the **rear lever** is brought into its correct position, then block the lock nut M8.



4. The brush adjustment for the machines without traction and therefore with a movement depending on the brush rotation, has to be carried out as follows:

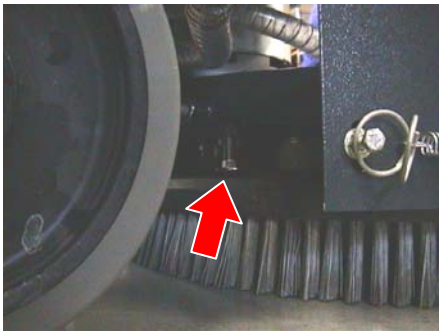
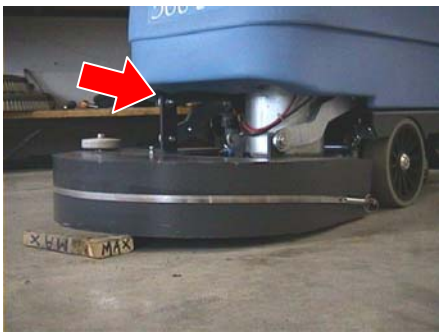
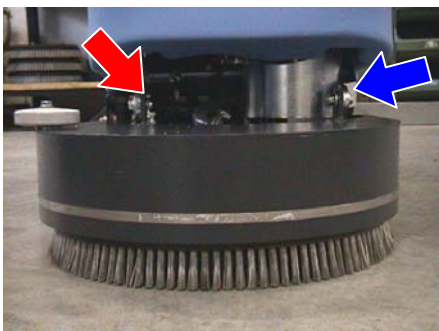
- Lower the brush base, applying in the front part of the cover a **metal bar of 15mm** between the cover and the floor, and unscrew the **screw M6 on top of the cover**.
- Unscrew the **screw M8** of the brush inclination, push the complete base downwards and block the screw previously unscrewed, screw down the screw M6 until it touches lightly the base.

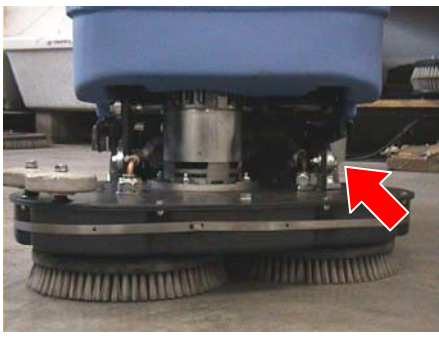
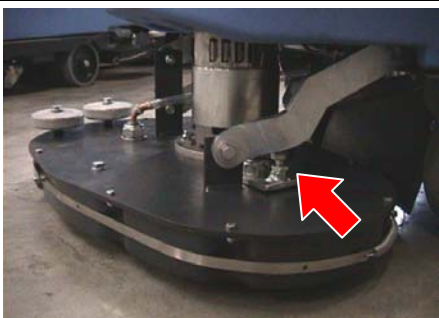


- Couple the brush, always with the brush base in working position, and unscrew the **screw M8** for the brush inclination, then block the screw as soon as the brush base fixing is obtained.
- Adjust the traction effect on hand of the **screw M6**, then block the lock nut.

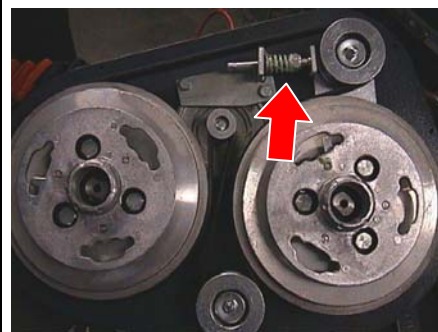


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Adjust the cup head screw brush rest until the head just touches the even part of the brush on which it rests. The allowance between the head of the screw and the brush must be at most 1mm-2mm, when the brush is coupled and lowered.	
5. For the models with automatic traction apply the metal bar which should be brought to 25mm in the front part, loosen the screw M8 of the base inclination and after having noticed the correct base adjustment, block the screw again.	
6. Take off the metal bar and couple the brush, loosen the screw M8 of the brush base inclination, after having noticed its correct adjustment, then block the screw. Adjust the screw M6 placed on top of the brush cover, with the brush functioning, in order that the machine does not move. 7. Block the lock nut M6.	

Adjustment brush and base - G452-502 B-BT / MOVEMENT SEMI-AUTOMATIC B	
For the machines B, that means with a semi-automatic movement, which depends on the brushes rotation, in case the machine should not have a straight movement, or should this be insufficient, carry out the following operations: 1. With brush base lowered, complete with its brushes, unscrew the screw M8 on the right (screw brush base inclination), and block it as soon as the correct base adjustment is noticed. This operation is necessary to eliminate eventual defects of the machine movement.	
2. If the traction has be increased or reduced, operate on the plaque on top of the brush base, loosening the nut M10. Unscrewing the screw a reduction of the traction is obtained, while screwing down more an increase of the traction is given. PS: DO NOT MODIFY EXCESSIVELY THE TRACTION CHARACTERISTICS, OTHERWISE THE BRUSHES DO NOT FUNCTION CORRECTLY.	

3. The dimension of the **spring belt tightener** should be always of 27mm in compression.



The models equipped with automatic traction, that means BT, carry out the same operation what the brushes inclination concerns.

PS: As the brushes are assembled on flexible couplings, with automatic traction, these models do not need other adjustments regarding the brushes group.



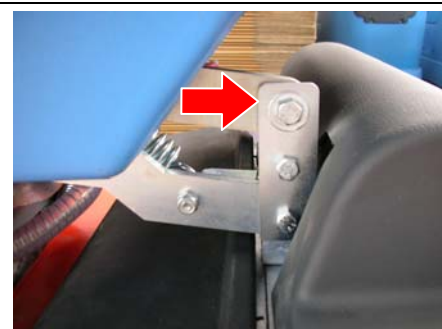
Adjustment sweeping system 50BS – BTS semiautomatic drive BS

For the BS types (semiautomatic drive) in case there isn't an uniform adherence of the brushes on the floor so a incomplete cleaning function act as:

- lower the sweeping system
- Unscrew the right **M8** screw
- Let the cylinders adhere equally to the floor
- Block the M8 screw



Adjust the traction power, put the inclination lightly in the front part the deck and block the **M8 screw**.



For the automatic traction types (BTS) make the same adjustment for a complete equal cylinder adherence, then check the work surface of both cylinders.

- Wet a little the cylinders (with water)
- Bring the machine on a dry levelled surface
- Lower the sweeping system until the cylinder touch the floor. Rise the cylinders and check the imprint left. It has to be a rectangle and uniform on both sides
- In case you have to modify the set up of the system, **unscrew the M8** at the left of the sweeping system, adjust the deck in the parallel position, so block the screw

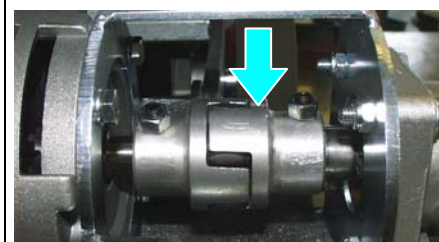


To help the disassembly of the cylindrical brushes, unscrew the **screw** until the lever is at the first hole of the pressure adjustment.

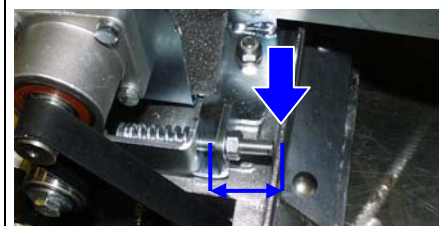


Adjustment brushes base

1. Assemble the joint chain of transmission so that a distance of 2 mm. between two hubs is obtained and tyre toothed star is between two hubs, works correctly, avoiding vibration and shift.
2. Fix dowels and adjuster nuts.

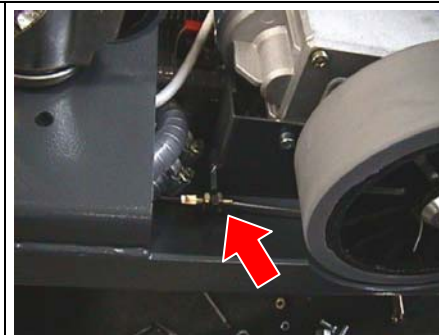


3. Check tension of transmission belt working of screw M8, so that the thread goes out from support of about 28-29 mm.



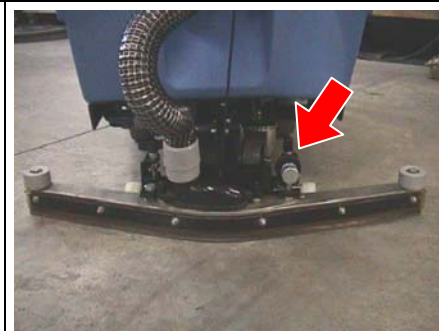
Adjustment of the brake

1. Adjustment brake pads: check the braking uniformity, with the brake inserted, trying to rotate the machine both right and left, checking that the wheels remain blocked in the same way.
2. Adjust the range of the brake handle acting upon the two **adjusters** of the brake cable, one placed under the frame and the other one behind the electric panel.



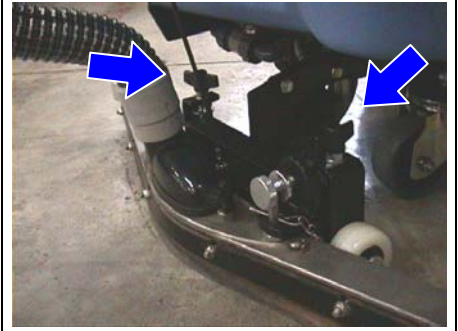
Adjustment Squeegee

1. Adjust the inclination **register** of the rear squeegee rubber when the squeegee is in function, so that this has an even bending. Block through the **adjuster nut**.



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2. Adjust the height of the wheels with the suitable **hand wheels** checking that the rubber has an inclination of around 30°-45° and that it is not too much pressed down onto the floor nor too much lifted.
3. Check that the wheels of the squeegee support are in working position, that is to say that they touch the floor.



Final inspection

Check all the functions: washing, drying, forward and backward movement