



# Clemas & Co Ltd

Industrial Cleaning Equipment  
Sales - Hire - Service

## C25 35B SCRUBBER DRYER OPERATOR MANUAL



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## **Congratulations for your choice!**

***FIorentini S.r.l.** thanking you for the preference to our product, would like to remind you that **FIorentini's S.r.l** production covers manufacture and marketing of industrial cleaning machines and is currently a Leading industry in this sector .*

*Our tradition and competence guarantee technical quality of your choice; actually all our products are being built first quality materials through criteria that can give reliability, solidity and functionality satisfying every kind of customers. **FIorentini** has recently obtained the quality system certificate conforming to the requirements of **UNI EN ISO 9001:2000**.*

*We wish therefore inviting you to contact us, unhesitatingly, for every kind of request, as technical or commercial; we'll be pleased to be at your disposal for any information you may need.*



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## 1. GENERAL INFORMATION

### 1.1. USED SYMBOLS

	<p><i>This symbol is used to quote the attention of the operator on procedures or precautions to be followed to avoid damages to users or to the support</i></p>
	<p><i>This symbol is used to quote the attention of the operator on general information</i></p>

### 1.2. NOTES

	<p><i>This manual is property of <b>FIorentini S. r. l.</b> All rights reserved to copy, totally or in part, and transmission to third parties with mechanic, electronic or whatever means, without permission of manufacturer. It's been made in one original copy unless differently specified in order place.</i></p> <p><i>Manual is delivered with relative machine, of whom it constitutes integral part, and it has to be given in case of transfer of the machine too. We remind to put it in a safe place and keep it for all the machine lifetime. Purchaser is responsible to show it to qualified people. In case of loss ask for a duplicate to FIORENTINI Co..</i></p> <p><i>FIORENTINI decline every responsibility for any kind of possible damages caused by persons and/or things due to non-observance of instructions in this manual.</i></p> <p><i>FIORENTINI reserves the right to introduce in every moment and without notice all the technical and commercial changes useful considered. Therefore data and information reported could have changes and/or updating notes.</i></p>
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### 1.3. MANUAL REFERENCES

This manual deals exhaustively with all necessary arguments for easy and safe use of the machine, as recommended by European Directives about product security.

Consequently we recommend to all authorized operators to use it of reading attentively this manual in every part and carefully applying everything indicated, asking for explanations to FIORENTINI in case of doubt. The manual must also be used as referring documentation each time it needs to remind a procedure or operation or to train new operators.

For publishing reasons, pictures and drawings can look different from reality however without showing meaning doubts.

Special symbols and **bold type** and/or *sloping* remind the attention of the reader on remarkable information, particularly for safety.

Index of review is reported, each single page, at the bottom. List of revised pages can be found to the end of the manual.

### 1.4. WARRANTY

Terms and conditions of warranty are stated to the following points if not differently specified in the order confirmation.

#### OBJECT OF WARRANTY

The autoscrubber has been conceived and built for a long-term use without relevant problems; anyway, in case of anomalies during the warranty period, FIORENTINI Co. is engaged to repair and/or substitute for free parts which have shown early breakage or wear and tear caused by defective materials, working defects or imperfect assembly.

Warranty is not given for parts which early breakage or wear and tear are due to:

Ing. O. Fiorentini S.r.l.

Il titolare/chairmen/gérant

Piancaldoli

Ing. O. Fiorentini

***Luogo e  
data***

***Firma***

*Oswaldo Fiorentini*

In caso di modifiche apportate alla macchina questa dichiarazione non è più valida

**DICHIARAZIONE-DECLARATION-DECLARATION-  
ERKLARUNG-DECLARACION**

**DICHIARAZIONE CE DI CONFORMITA'  
DECLARATION OF CONFORMITE'  
DECLARATION DE CONFORMITE  
ÜBEREINSTIMMUNGSERKLÄRUNG  
DECLARACION DE CONFORMIDAD**

**ING. O. FIORENTINI s.r.l.**  
Loc. Rombola  
**50030 PIANCALDOLI (FI) ITALIA**

**Dichiara sotto la propria esclusiva responsabilità che la macchina:  
Declares under its own responsibility that the machine :  
Declares sous sa responsabilité exclusivement que la machine :**

erklärt unter ausschließlich eigener Verantwortung, daß die Maschine :  
declara bajo su propia y exclusive responsabilidad que la maquina :

**FIORENTINI**

Modello/model/modele/modell/modelo  
Matricola/serial number/numero  
matricule/serienummer/numero matricula  
Anno/year/annee/jahr/ano

2009

Fabbricata nel rispetto delle direttive e decreti :  
and moreover is built according to the directives and decrees :  
et est fabriquées ì, en outré, conformément aux directives et ou décrets :  
und daß sie unter Einhaltung folgender Verordnungen und/oder Dekrete hergestellt worden (sind) :  
y que además ha sido fabricada en conformidad con las directivas y/o decretos :

**2006/42/CE/EC/EG-**

Direttiva macchina: Machines Directive: Maschinen Richtlinie: Directive machines:

**2006/95/CE/EC/EG/-**

Direttiva bassa tensione :Low voltage directive:Niederspannungsrichtlinie :Directives sur le basse tension :

**2004/108/CE/EC/EG-**Compatibilità elettromagnetica : Electro Magnetic Compatibility: Elektromagnetische Verträglichkeit:  
Compatibilité électromagnétique:**2002/95/CE/EC/EG-**Restrizione sostanze pericolose : Restrictions of Dangerous Substances Beschränkung der gefährlichen Mitteln  
:Restriction des substances dangereuses**2003/10/CE/EC/EG**Protezione da rumore: Exposure of Workers to Noise: Gefährdung der Arbeitnehmer durch Geräusch:  
Exposition des travailleurs aux Bruits:

**È conforme alle seguenti norme :  
conform to the following laws :  
est conforme aux norms :  
mit den folgenden Normen übereinstimmen :  
está conforme a lassiguientes normas :**

**EN 12100-1- EN 12100-2- EN 60204/1-EN 55014- EN 60335/1-  
EN 60335/2/69- IEC 60335/1/69 & 67**

Norme applicate: Harmonized Standard Applied: Angewandte harmonisierte Normen: Normes Harmonisées  
Appliquées :

**Ing. O. Fiorentini S.r.l.**

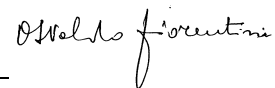
**Il titolare/chairmen/gérant**

Piancaldoli

**Ing. O. Fiorentini**

***Luogo e  
data***

***Firma***



In caso di modifiche apportate alla macchina questa dichiarazione non è più valida

## 2. SUPPORT FEATURES AND SPECIFICATIONS

### 2.1. IDENTIFICATION

The autoscrubber machine can be identified with an adhesive label put on the protection carter in the backside of the machine which will clearly report the data referring to "CE" marking.

Ing. O. Fiorentini S.r.l. Piancaldoli (FI)		MADE IN ITALY	CE
Mod. <b>DELUX350</b>	S.N.		
V	Hz.		
Kg	A	W	



PICTURE 2.1



*The label has never to be removed and should be always kept legible. In case of damaging it's necessary to ask for a duplicate. The autoscrubber machine cannot be commercialized without the label.*

### 2.2. DESCRIPTION AND COMPONENTS

The autoscrubber machine DELUXE 350 has been designed for treatment of flat areas through washing and following process of water drying. The power supply is furnished of a series of accumulator batteries, that charge all the engines and the electrical controls.

The machine, depending on the model, can be supplied with one or two rotating brushes having in charge, assisted by water and detergent action, to wash the areas. As the machine advances the brush in the back (squeegee), touching the floor take the water that, at the same time, is aspirated and piped in the recovery tank.

The test board controls some of the functions of the machine and put at the operator's disposal a signaling system, through lighting led, of the remaining charge of the battery. With the test board is possible to carry out the following functions:

- to start the washing brushes;
- to start the suction motor;
- to switch on and off the machine.

The bearing structure of the machine is made of a steel zinc-plated chassis or in stainless steel, so that to avoid oxidation problems which could compromise the reliability of the machine.

The main components of the machine are:

- steel zinc-plated chassis or stainless steel;
- solution tank in plastic PE-HD;
- recovery tank in plastic PE-HD complete with piping flexible system of suction and drainage;
- a set of batteries placed in the recovery tank space (battery version);
- rotating brushes;
- suction system (squeegee);
- two free caster-wheel;
- driving unit.

FIORENTINI Co., taking care of new safety rules in CE community , has manufactured the machine following safety and health rules of the CE normative. High quality material used, high technology and Fiorentini experience allowed to have performing machine .

Each machine is inspected during the manufacturing time and the final check is done before shipping out the machine.

**2.3. TECHNICAL DESCRIPTION**

CARATTERISTICHE TECNICHE TECHNICAL CHARACTERISTICS CARACTERISTIQUES TECHNIQUE	DELUX 350 ELETTRICA	DELUX 350 BATTERIA
Dimensions	730x440x650-120 mm	850x440x650-120 mm
Squeegee width	440 mm	440 mm
Scrubbing width	350 mm	350 mm
Forward speed	0/5 km/h	0/5 km/h
Clearing capacity up to	1750 m <sup>2</sup> /h	1750 m <sup>2</sup> /h
Max slope	10 %	10%
Water lift	130 mBar	130 mBar
Noise level	60 dB	60 dB
Number of brusche and diameter	1x Ø350 mm	1x Ø350 mm
Brush pressure	10 kg	10 kg
Power	220 V	24 V
Brush motor	1x 370 W 220 V	1x 200 W 24 V
Traction motor	1x 500 W 220 V conv.	1x 300 W 24 V conv.
Recovery tank capacity	20 l	20 l
Solution tank capacity	22 l	22 l
Operating range	/	35 min
Mechanical drive	manual	manual
Weight of the machine (without batteries/water/operator)	47 kg	47 kg
Batteries (battery version)	/	2x 12 V 20 A/h
Weight batteries	/	2x 5.5 kg



*The above characteristics are not a must for the manufacturer so they can be changed without any notice .In any case ING.O.FIORENTINI Co. Is always at disposal for any information ( 7.1.).*

**MEASUREMENT UNIT CONVERSION**

<b>Lenght</b>	1 inch = 1" = 25,4 mm	<b>Power</b>	1 kW = 1,36 CV = 1,34 BHP
<b>Temperature</b>	T (K) = t (°C) + 273 / t (°F) = 1,8 t (°C) + 32	<b>Pressure</b>	1 bar =100 kPa = 14,5 psi

### 3. SAFETY

#### 3.1. CORRECT USE



*The machine is a scrubbing machine and has been studied and manufactured to be used to clean flat floors or with maximum slope of 10%.*

#### 3.2. INCORRECT USE



- *Not authorized operator uses;*
- *Not regular floors cleaning;*
- *Cleaning of surfaces with more than 10% slope;*
- *To use the machine in place with dangerous products;*
- *Floor cleaning with inflammable products;*
- *To use the machine as transport vehicle of person or goods;*
- *Modify or removing protection device;*
- *Charging the batteries in places with no suction or with good ventilation;*
- *No respect of safety rules from the operators;*
- *Any modification that can modify the correct machine function;*
- *Any modification not authorized by Fiorentini Co;*
- *Use of acid products that can damage the machine;*
- *Not respect of what mentioned in the operator's manual.*



*Read carefully the information labels placed on the machine , don't cover them for any reason.  
FIORENTINI is not responsible for the machine use not in a correct way .*

#### 3.3. SUGGESTED EQUIPMENT

In order to use in a better way the machine characteristics we suggest to use the original parts and spare parts studied by Fiorentini Co.. In any case the Technical department is at customers disposal in order to satisfy any needs .

**3.4. OPERATOR QUALIFICATION**

Follow the request operator qualification for different uses:

OPERATION TYPE	OPERATOR QUALIFICATION
Use /Inspection	Taught operator
Installation / disinstallation	Specialized technician
Mechanical parts maintenance	Specialized technician
Electrical parts maintenance	Specialized technician
Ordinary maintenance	Taught operator
Dismantling and demolition	Specialized technician

We recommend to teach the personnel to the use of the machine, above all for that it concerns safety aspects ; particularly operators must read and understand this manual.



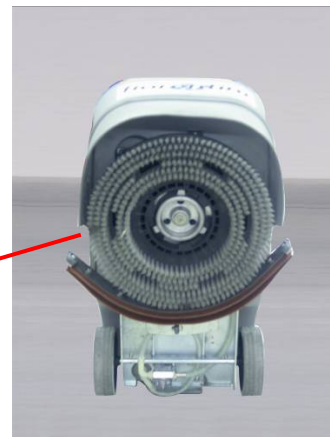
*FIorentINI decline every responsibility for accidents to persons or things from using the machine by non-authorized or unqualified operators.*

**3.5. PROTECTION AND ALARM SYSTEMS**



- *It is absolutely forbidden to camper with these dispositives, keep them out or disconnect during the functioning of the machine.*
- *We recommend to verify periodically their efficiency (point 5.1).*

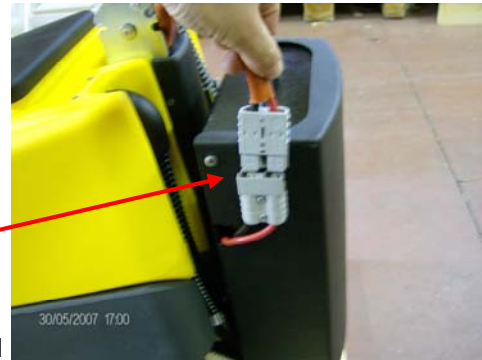
<b>Brushes covers</b>	The auto scrubber DELUX 350 is equipped with one scrubbing brush, rotating during the normal use. The accessibility to dangerous areas has been avoided through fixed plastic protections. The removal of these ones can just be done voluntarily provoking the separation from the machine.
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### 3.6 SAFETY DEVICES

This machine is provided of the following safety systems:

**Socket** (picture 3.1); the same socket used for the battery charger. In case of emergency, this socket must taken away from the plug by means of its handle. The operator must be trained about safety rules. Do never restore this safety system before the problem has been sorted out. If it is necessary ask for technician help.



Picture 3.1

### 3.7 RESIDUAL DANGERS

FIORENTINI has analysed any kind of ranger in using the machine to eliminate, or at less to reduce, accidents to operators, since the projecting phase. To reduce these risks we provided to inform the operators through signals and showing means and procedure to be adopted.

#### CRUSHING DANGERS

Crushing risks may come from:

- replacing of scrubbing brushes;
- regulation of the squeegee.

When regulating the brushes and the squeegee we recommend to be sure that the ignition key is kept away from the control board to avoid casual switching.

Special pictograms are placed on brushes covers and on the back side of the tank.

#### OVERTURNING DANGERS

Overturning dangers may happen:

- during the normal use of the machine when exceeding sloping limits as specified in the manual and if using the machine to clean disconnected surfaces or with holes and high depressions.





**Don't use the machine to clean up areas exceeding 10% of sloping or presenting holes, and depressions which might compromise the stability of the machine.**




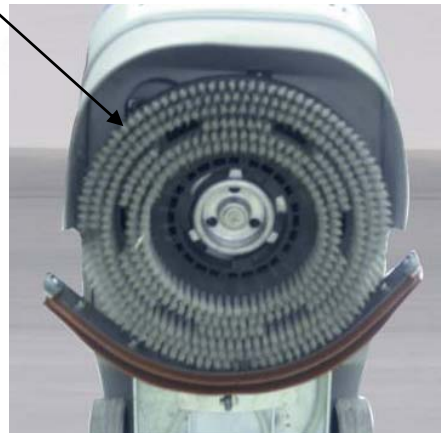
*FIORENTINI decline every responsibility for accidents to persons or things using the machine on surfaces that can compromise the stability of the same one. The operator has to follow recommendations about areas conditions on which he has to work.*


**3.8 SAFETY SIGNALS**


Safety signals include :

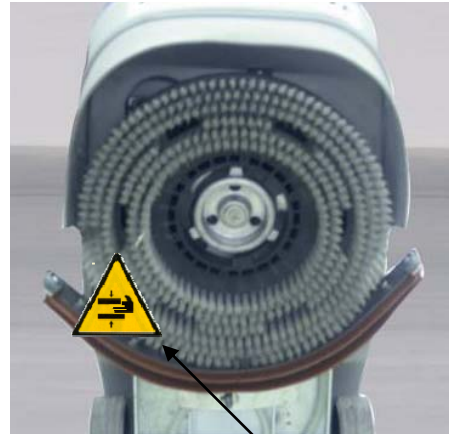
<b>DANGERS</b>		Signals are triangular shaped with black colored in yellow field pictograms
<b>PROHIBITIONS</b>		Signals are circular shaped with black colored in white field red-crossed pictograms

	<b>What is it ?</b>	This signal shows the prohibition to remove covers in which members are still moving.
	<b>What to do ?</b>	In phase of installation/maintenance we recommend, to remove mobile protections, to disconnect the ignition key from the control board. When the machine is in action not enter with body's parts and make sure that all covers are well fixed.



	<b>What is it ?</b>	This signal shows crushing dangers due to moving parts of the machine.
	<b>What to do?</b>	In phase of installation/maintenance we recommend to keep away the ignition key from the control board.

 ***In case of wear and tear ,the purchaser must re-establish similar signals of danger. It's absolutely forbidden to keep out or to temper with these signals.***



	<b>What is it ?</b>	This signal shows crushing danger due to a casual overturning of the battery protection.
	<b>What to do?</b>	During the battery charging or while filling up the solution tank we recommend to provide a useful support.

***In case of wear and tear, the purchaser must re-establish similar signals of danger. It's absolutely forbidden to keep out or to temper with these signals.***

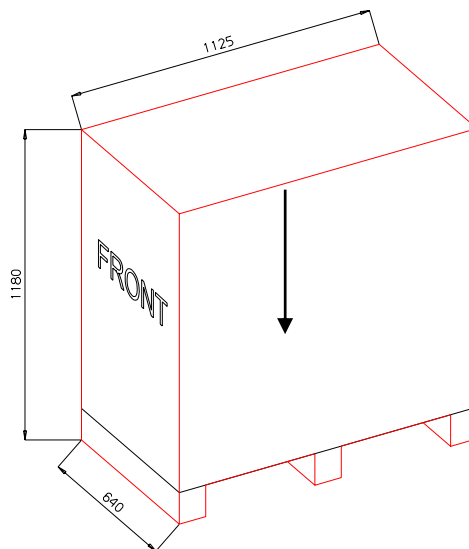
## 4. INSTRUCTIONS FOR STARTING AND USE

### 4.1. TRANSPORT AND HANDLING

This autoscrubber is delivered to the purchaser in a special package, which features are well showed in picture 4.1, completely assembled. The package shows the barycentre position indicated with a black arrow. The forks of the truck or transpallet must be placed in such a way as the black arrow is at the center of them. The package has to be moved carefully. We recommend not to place packages one on the top of the other. As agreed with purchaser, the machine can be delivered without package, placed on a bed and blocked with bands.



*At the moment of delivery we suggest to check the machine about accidental damages while transported and about have received all material indicated in coverings ; in case of damages or missing parts, please inform the forwarder and the manufacturer that will soon as possible provide to the mishap.  
Missing particular agreements, the goods travel at the purchaser's risk.*



Picture 4.1

Handling of the machine has to be carried out with suitable lifting apparatus, as showed below. Take always care about the elevator forks, or the sling bands, that have to be placed with the black arrow, as drawn on the package, has to be put at the center of the lifting system. Anchorage or slinging points are prepared for having a good balanced position when lifting up the machine.

PACKAGE TYPE	LIFTING APPARATUS	FIG.
Cartoon or plywood with bed	Elevator with forks	N° 4.1

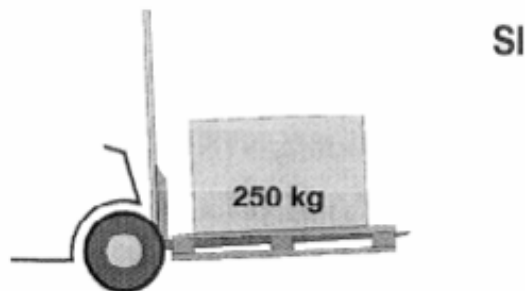


**Bands to be used must be suitable for the effective loading. Operations must be executed slowly avoiding oscillations or upsetting. The incorrect way of operating can damage the support or expose to dangers.**



*Machine dimensions and mass are explained at point 2.3. We strongly recommend authorized personnel for lifting operations.*

#### LOADING DIAGRAM



Picture 4.2

#### **4.2. STORAGE**

In case the machine is not immediately installed, it has to be preserved in a dry and closed Place to grant a perfect conservation and efficiency of its body parts. Humidity must be lesser than 80 % and storage temperature between  $3^{\circ} \text{C} \leq t \leq + 45^{\circ} \text{C}$ .

#### **4.3. INSTRUCTIONS TO UNPACK THE MACHINE**

- Cut off the bands being careful of the elastic reversion.
- Take away on the base of the cartoon the clips that keep it together with the pallet.
- Where plywood is take away the clips at both sides and at the base of each panel.
- Cut off the clips that stop the machine.
- Put the machine at ground level.

#### 4.4 HANDLE THE UNPACKED MACHINE

- Check the machine and mount the batteries if not installed.
- To displace it, after use, take off the battery cables, the brushes and the squeegee; to displace it through a longer space pack the machine once again in its own package.

#### 4.5. INSTALLATION



*The installation must be done by authorized personnel after reading this manual.*



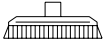
#### 4.6. CONTROL DEVICES

##### 4.6.1. CONTROL BRIDGE

The control bridge is set up with some interrupters that start/stop every function of the machine. Every interrupter has a pictogram showing, without errors, related functions. In picture 4.3 is showed the control bridge, while the schedule shows every switch functioning.



Picture 4.3

POS.	SWITCH	FUNCTION
1		<u>WATER LEVER</u>
2		<u>SUCTION ON</u>
3		<u>SWEEPING SYSTEM SWITCH</u>

#### 4.7. FUNCTIONING

The scrubbing operation is too delicate being necessary, by experience, to value correctly the kind of brush to be used, the necessity or not for a double scrubbing action, the better choice of the detergent. If floors are too dirty, we recommend a double scrubbing action. During this first step the squeegee is up and brushes are in operating position. Start up the brushes, for a first wiping, in a small area. The solution will be left on the floor to dissolve dirt, performing its solvent function until it's completely collected by the second wiping. Of course this last one has to be done with the brushes down and the squeegee keeping contact with the floor.

Scrubbing operation has to be executed by acting on the starting switch for brushes motor and driving the lever of water regulation. Water dosage must wet all the surface.

A single scrubbing action involves to put down the squeegee, then switch on the driving lever. The squeegee is put down by the lever. The suction motor will run by the interrupter. After the scrubbing and drying operation, first turn off the water, then the suction motor has to be switched off.

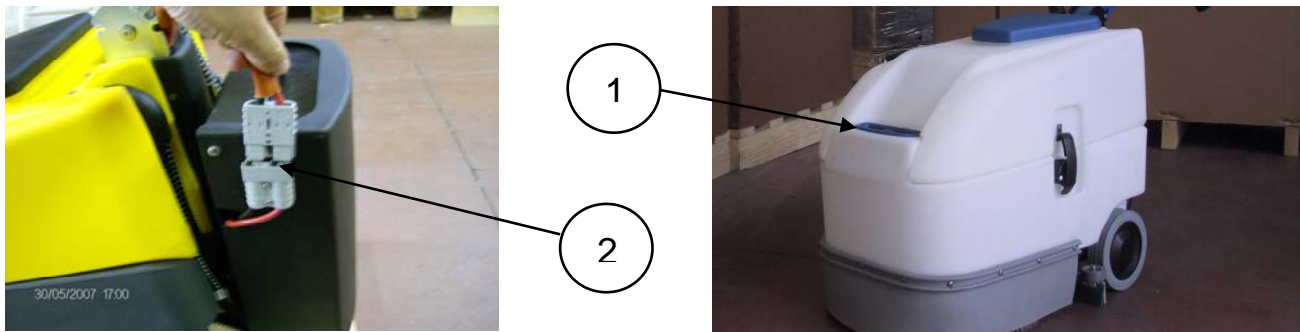


*Before proceeding with any kind of operation, check out that protections are still firmly fixed.*

##### 4.7.1 STARTING AND MACHINE PREPARATION

If the autoscrubber is connected to the system for charging the batteries is necessary to take off the charter plug; make the water loading lifting up the carter (see also particular in picture 4.4).

The machine can be now starter up rotating the main ignition key. So let's start the scrubbing operation.



Picture 4.4

##### 4.7.2 CHOICE OF DETERGENT

For a good floor cleaning is necessary to use the right detergent, not aggressive and so damaging. It's suitable to use a controlled foam detergent, or an additive antifoam, to avoid damages to the suction motor, whether not possible to get these products, to avoid foam, it's easy to use some normal vinegar, pouring a quantity of 50 cc inside the recovery tank before scrubbing.

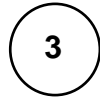


*Be sure that detergent is suitable for the surface to clean up. Fiorentini S.r.l. is not responsible for damages caused by detergents too aggressive or anyway unsuitable for all kind of surfaces.*

#### 4.7.3 REGULATION OF THE DRIVING HANDLE

Regulating systems owned by the machine, allows a good driving position choice based on the operator height. Here they are :

- Handle for regulating the steering (see the particular 1 picture 4.5);
- Draw the handle so that to unfasten the fixing support, choose the necessary height, then leave the lever and try to insert the support in the right position.



Picture 4.5

#### 4.7.4 RUDDER LEVERS FUNCTIONS

The machine is equipped with different levers :

- Handle for regulating the steering (particular 1 picture 4.5). Drawing with the hand the lever you can unfasten the handle so that to choose the correct height, to fix the handle you must leave the lever so that to insert the support in the right position.
- Lifting up squeegee lever (particular 2 picture 4.5). Pulling up this one and putting it to its place is possible to control the squeegee.
- Solution lever (particular 3 picture 4.5). Lifting up or bringing down the solution lever you can open and close of the solution tap.

#### 4.7.5 REGULATION OF DETERGENT SOLUTION

The quantity of detergent solution during the scrubbing operation can be easily regulated by the lever (see picture 4.5 particular 3).

#### 4.7.6 WATER DISCHARGE

This autoscrubber machine is equipped with two water discharge pipes (picture 4.6):

- Recovery tank pipe (particular 1 picture 4.6)
- Suction pipe (particular 2 picture 4.6).

To empty the water from the pipes put the machine on a drain well, disconnect the pipe to discharge and open the rubber cap on the top of it.

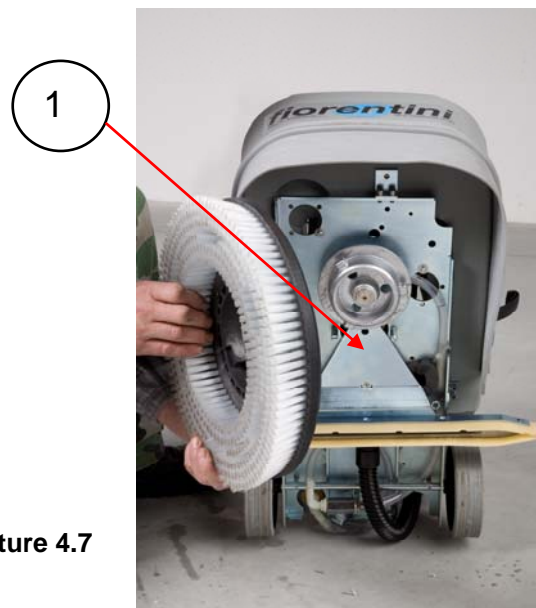


Picture 4.6

#### 4.7.7 BRUSHES SUBSTITUTION

To substitute the brushes do as it follows:

- Remove the ignition key to avoid casual starting
- Remove the protection pulling it out
- Release the brushes pulling them to the bottom
- To insert a new brush, is necessary to center the fitting flange inside the hexagon of the brushes with a two hands pressure to the top
- After have fit the brushes, reinsert the protection pushing to the machine.



Picture 4.7

#### 4.7.8 BATTERY PACK



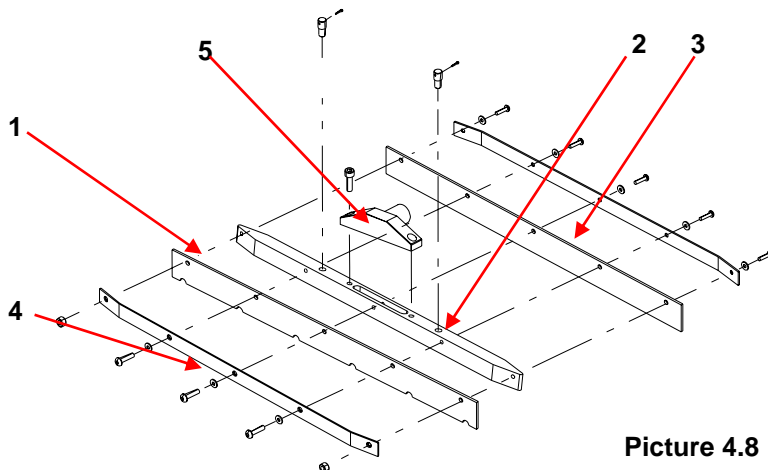
DELUX 350 battery version	
Batteries	2x12Vx20Ah
Time	30 min
Time to recharge	4/5 hours

#### 4.7.9 SQUEEGEE BLADES REPLACEMENT

The squeegee blades (picture 4.8) have to be replaced as the touching edge is worn; actually the perfection of the edge is essential for a perfect drying.

To replace the blades do as it follows:

- Before replacing the blades, turn off the machine
- Lift up the machine like in picture 4.7
- Take off the squeegee and put it on a bench, unthreading the fixing split pins. (Particular 1 pic. 4.7)
- Take away the inside and outside bolts, the steel strips and remove worn blades.
- Insert the new ones and the strips fitting the bolts, then the squeegee.
- Now proceed with the opposite operations to install again the squeegee on the machine.



- |                           |
|---------------------------|
| 1- front blade squeegee   |
| 2- squeegee body          |
| 3- suction blade squeegee |
| 4- squeegee straps        |
| 5- siphon                 |

Picture 4.8


## 5. MAINTENANCE

### 5.1. MAINTENANCE TABEL

To keep a good efficiency of this autoscrubber machine and grant a good reliability during the warranty period, is essential to keep a periodic maintenance using the table reported in this manual.



- *Authorized personnel only can service this machine, particularly for electrical and electromechanical parts using suitable tools and equipment for every intervention.*
- *For assistance and spare parts address exclusively to Fiorentini S.r.l.*

<b>OPERATIONS TO BE MADE</b>	<b>INTERVENTION MODALITIES</b>	<b>FREQUENCY</b>
Cleaning up	Clean up the recovery tank and suction motor filter	Every day
	 <ul style="list-style-type: none"> <li>• <b>Never use corrosives.</b></li> <li>• <b>Don't use water jets.</b></li> </ul>	
	<ul style="list-style-type: none"> <li>➤ Check suction and squeegee pipes cleaning up</li> </ul>	Weekly
Controls	<ul style="list-style-type: none"> <li>➤ Check the state of the suction blades and of the squeegee rubber</li> <li>➤ Check the cable which must not to be wear and tear</li> </ul>	Every 15 days
	Check solution tank filter	Every month
	Check the state of each motor brushes	Every year
	<ul style="list-style-type: none"> <li>➤ Check safety dispositives</li> <li>➤ Check electric system</li> </ul>	Every year

## 5.2 MAINTENANCE OF SUCTION MOTOR

The suction motor must be efficient and cleaned. Every six months check the brushes and if necessary replace them. Maintenance of suction motor needs the following operations:

- Open the machine (particular 1 picture 5.1).
- Keeping away the key from the dashboard, release the motor hooks (particular 2 picture 5.1) and disconnect the plug (particular 3 picture 5.1).
- Keep the filter beneath the motor away, to clean it and put it back.
- Check the suction rotor from the front opening of the motor.
- To reassemble do the opposite way



1



3

2

Picture 5.1

## 5.3 ELECTRICAL EQUIPMENT CHECKING

The electrical system must be checked every two years. Possible defects, such as connections off and burnt cables, must be suddenly replaced.



All intervention on the electrical system must be done by a technician.  
All maintenance or repair out of the ordinary maintenance must be done with personnel authorized only by FIORENTINI.