

A.F. Company
MACHINE

USER MANUAL



EN

CE

LABOMAT 195B

Ride-on Scrubber Dryers With Batteries

This Guide provides necessary instructions on machine operation and maintenance.

Before operation or use of this machine, please carefully read and understand this Guide.

When ordering the replacement parts, please refer to the spare and accessory parts manual attached to the machine.

Before matching parts or accessories, please firstly determine your machine model and serial number. You can order parts and accessories from any authorized service center or dealer by telephone or mail. This machine can provide excellent service. If the following can be further done, the optimum efficiency can be obtained with the lowest cost:

- Carefully operate the machine.
- Maintain the machine according to the maintenance instructions provided in the operation manual.
- Use the OE or same-grade parts for maintenance.



Protect the environment

Please dispose the old machine components such as packaging material, battery, etc. and toxic liquid such as anti-freezing agent and oil according to your local regulations on waste disposal and on the premise of maintaining the environmental safety. Please ensure to carry out the recycling well.



INDEX

Precautions	22
Instructions on machine operation	23
Technical parameters	24
Machine operation	26
Battery installation	35
Machine maintenance	37
Troubleshooting	38

This machine is suitable for industrial and commercial use and specially used for cleaning indoor hard floor instead of other purposes. Please use the suggested scouring pad and brush as well as the commercially available floor cleaner suitable for this machine. All operators must read, understand and observe the following safety precautions. The following are explanation for safety warning signs and [for safety] headlines used in this Guide:

Warning: for warning of risks possibly causing personnel injury or death or unsafe operations.
For safety: point out matters which must be observed when using the machine to guarantee safety.

If the following warnings are not observed, it may cause: personnel injury, electric shock, fire or explosion.

Warning: fire or explosion hazard:

- Do not use flammable liquid; do not operate the machine close to or in the place where there is flammable liquid, air or dust.
- This machine is not equipped with explosion-proof motor. If this machine is used in the place where there is flammable air, liquid or dust, electric motor may generate spark during the start and operation, which may cause flash fire or explosion.
- Please do not pick up flammable materials or reactive metals.
- The battery releases hydrogen. Please be away from spark or open fire. The battery cabin must be kept open when charging.

Warning: Electric shock hazard. Please firstly disconnect the battery wiring before maintaining the machine.

Warning: Operation of rotary brush. Do not get close with hands. Please turn off the power before maintaining the machine. The following information explains the conditions causing potential dangers to the operators or equipment:

WARNING: Please read this guide before using the machine.

- Please read the labels on the machine very well. Cover the labels in no way and please change it if it has been damaged.
- This machine can be used only by people who are qualified.
- Please keep away this machine from your children and be careful while using this machine at the places which are close to people and children.
- Never blend varied types detergents. Otherwise, it can generate some hazardous gases.
- Place this machine backwards or on its side in no way.
- Never use this machine at places that have risk to explode.
- Never use this machine for transporting anything.
- Do not use acid solution, otherwise you can damage to people or the machine.
- Please do not operate the machine so long time while it is static. It can damage the place.
- Please do not vacuum something such as razor blade,nail and explosive materials (gasoline,alcohol etc..)
- This machine is not suitable for cleaning dangerous dust.
- Please use an extinguisher including dust instead of water in the event of fire.
- Please do not crash shelves if the things have risk to fall.
- Please determine operating speed according to vacuum conditions.
- Please avoid to operate this machine at the uneven and dusty places.
- This machine has to arrange washing and drying processes at the same time. So you should use caution signs as considering safety rules while the machine is operating at wet ground.
- Please ensure that poor maintenance doesn't causes to that problem if you it would be lived some problem while the machine is operating. And after that, please call to the closest EDİT ENDÜSTRİYEL service center.
- Please ask original spare parts for LABOORY-LABOOMAT from authorized agent or dealer if you need to change them.
- Please use only original LABOORY-LABOOMAT brushes.
- Please ensure that machine is not operating during maintenance process.
- Please arrange the wirings to the previous state after every maintenance processes.
- Never take down protective parts which are needed equipment to be taken down.
- Never clean this machine as using pressure water, fountain or corrosive matter directly.
- Please do not fill up detergent solution hours before using the machine.
- Please provide to be placed all covers at the way it is shown on guide.
- Please ensure that dust bag is empty before you take dust bag.
- Please do not operate this machine under rain to avoid accidents and motor to burn.
- This machine is not designed for (including children) physically handicapped, deaf, mentally handicapped and not-authorized people. That's kind of people should be guarded by responsible person for their safety if they need to use this machine.

1. Please do not operate the machine:

- When contacting flammable liquid or getting close to flammable air, otherwise it may cause explosion or flash fire.
- Unless being trained and authorized to operate the machine.
- Unless having read and understood the operation manual.
- Unless in the conditions of correct operation.

2. Before starting the machine:

- Please ensure that all safety equipment have been in place and operated correctly.

3. When using the machine:

- Please walk slowly when encountering the slope and sliding surface.
- Please wear anti-skid shoes.
- Please slow down when turning.
- Report immediately when the machine is broken or the operation fails.
- Do not let the children play on or around the machine.
- Observe the mixing ratio and processing instructions on the chemical vessel.

4. Before leaving or maintaining the machine:

- Stop and place the machine on the stable ground.
- Shut down the machine.

5. When repairing the machine:

- Avoid moving the parts. Please do not wear loose jacket, shirt or oversleeve.
- Before operating the machine, please firstly disconnect the battery wiring.
- When treating battery or battery wiring, please wear protective gloves and eye protectors.
- Avoid contacting battery liquid acid.
- Please do not spray this machine with high pressure or flush this machine with water pipe.
- Use the replacement parts provided or recognized by the manufacturer.
- All maintenance must be carried out by qualified maintenance personnel.
- Please do not revise the original design of the machine.

6. When transporting the machine:

- Please shut down the machine.
- Please do not transport the machine with the battery on.
- Please transport the machine with the aid of the others.
- Please use the suggested handling apron when handling the machine from the truck or trailer.
- Use the rope to fix the machine on the truck or trailer.
- Lower the brush head to the lower position.

Before submitting service questions please make a detailed description of the symptoms, to be as follows:

- Serial Number
- Details of damage
- Contents of checked items
- Adjustments made and its effect
- Other useful information

Accessories

When you need replace parts, only use original accessories by manufacturers. To avoid more serious damage to the machine and make the machine perform better, please replace spare parts on time.

Performans		
Work capacity	m ² /h	6200
Working width	mm	900
Squeegee width	mm	1100
Maximum forward speed	km/h	6
Maximum gradient	%	15
Sound pressure	dB(A)	61

Water Tank		
Clean water tank capacity	lt	180
Dirty water tank capacity	lt	195

Brush		
Brush quantity		2
Brush place		main
Brush rotating speed	rpm	180
Brush pressure	Kg	40
Brush lifting system		elektrik
Brush diameter	mm	430

Motor		
Driving motor		
Power	W	650
Voltage	V	36
Vacuum motor		
Power	W	550
Voltage	V	36
Brush motor		
Power	W	650 x 2
Voltage	V	36 W

Battery		
Battery quantities and capacity		6 x (6 V / 200 Ah)
Battery section dimension		260 x 180.5 x 273.5 mm
Working hour		4 - 5 hours

Warning: Working hour depends on battery type and using

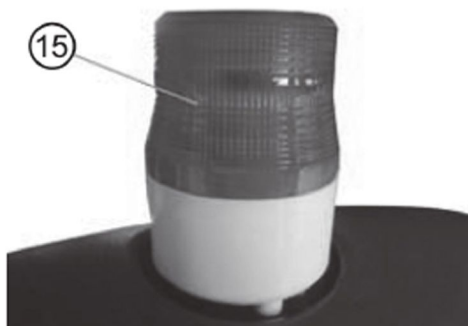
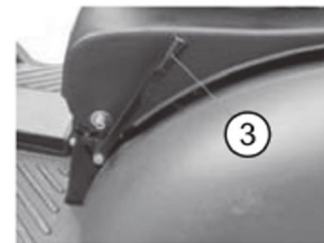
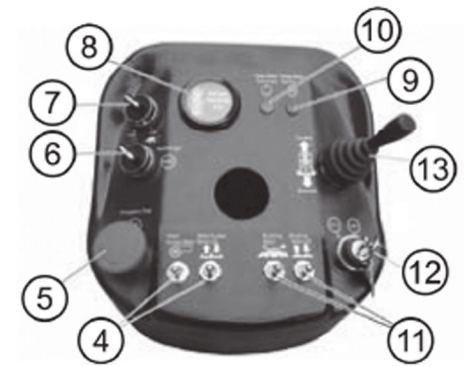
Brake	
Brake pedal	Mechanic
Hand brake	Mechanic

Apparatus	
Water tank warning light	x
Low water tank warning light	x
Battery warning light	x
Battery warning light and alarm display	
Emergency stop switch	x
Speed Switch	x
Brush pressure gauge pressure	
Forward / reverse switch	x
Vacuum motor switch	x
Brush Switch	x
Speaker	x

Standard accessories	
Absorbing strip	x
brush	

Options	
(A) Round brush	x
(A) Rolling brush	x

Controlling system (1) the brake pedal / parking brake lever hands. (2) throttle step Board. (3) water tank cock hand lever switch. (4) vacuum Motor and absorb head control switch. (5) emergency stop switch (6) speakers (7) speed switch (8) power alarm and display alarm (9) dirty Water tank full warning lights. (10) clean water tank empty warning light (11) brush control switch (12) Start switch (13) forward and back joystick (14) Tank cover (15) reverse alarm



Control Systems discretion

(1) the brake pedal / parking brake hands lever. Pedal 1 is the control of the machine's pedal travel or work Brake lever 2 lock pedal 1 and control the machine parking and Brake. (See the "brake" section)

(2) the accelerator pedal Control the front / back speed.

(3) tank petcock switch hand lever On or off and adjust the flow to the brush. Off position 0 Open positions 1-4

(4) vacuum motor and suction switch Control vacuum motor and lower the suction head. Location. "Stop" vacuum motor off, water suction head lift Location. "Fan" vacuum motor on, water suction head down.

(5) The emergency stop knob At the same time cutting off all the control system. When an emergency occurs, press the switch. Restart operation, turn the knob counter clockwise 1 / 4.

(6) speakers Control horn operation.

(7) Speed Switch Used to set the speed when moving or working. Transferred to the "Low" identifies the machine is set to low speed in order to thoroughly clean. Transferred to the "High" setting the machine to identify the high-speed, clean faster.

(8) Power alarm and display alarm Displays the machine's working time and status of battery, sends alarm signal when battery is low

(9) dirty water tank full warning light sends alarm signal when dirty water tank is full

(10) clean water tank empty warning light

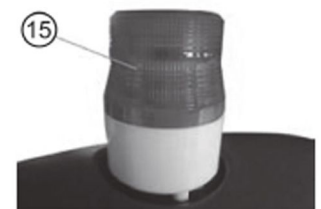
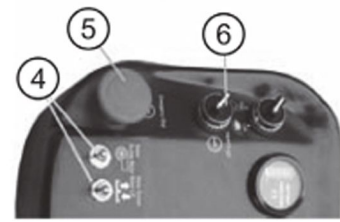
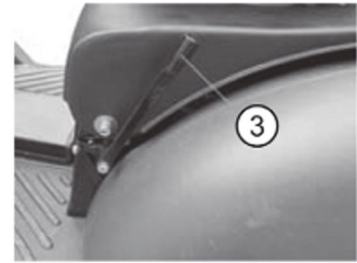
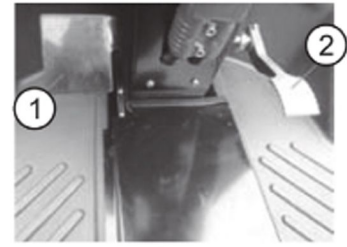
(11) Brush control switch Control the rotation of the brush motor and brush upgrade down. Location P. "stop": the motor off, brush upgrade. Location, rush ": motor on, brush down.

(12) Key start switch Activate all of the electrical control system components. Location. "0", the electric system off Location. "1" electrical system open

(13) forward and reverse selection lever Provide washing machine forward and backward. Position "Forward": washing machine go forward. Position "Backward: Washing machine go back.

(14) water tank cap To fill the clean solution tank

(15) back and forward warning light (red) This light indicates the wrong reverse activated and stop the machine. Continue, as 13 operation described.



Common Safety Guide

In this manual, the machine described in line with EC standards and on the machine with a number 98/37/EEC (machinery standards). Person in charge of the machine must comply with EEC directives and local regulation of the working environment to ensure the operation of machinery healthy and safe. Usually start the machine before a preliminary examination.

Warning

The machine can only be used by authorized operators. Prevent unauthorized use. Any modification, adaptation and application that may lower the safety performance of the machine are prohibited. It will not cause danger if you check the machine when the switch and motors are on off status. Any working behavior that may lower the stability of the machine is prohibited. Please wear gloves and sun-protected glasses while working outdoors. Danger In addition to the rules need to be addressed, the person in charge of the machine must make the following clear to the machine operators: Fixed or mobile hoses must be placed on the correct position. If the rack is removed, or the security system is not connected or short circuit, regardless of any reason, the machine must be repaired immediately before the operation. The machine can only be used under the proper conditions according to proper purpose of use. Comply with the same request in accordance with the purpose of the use and maintenance instructions, and in accordance with professional inspection and maintenance conditions. It is prohibited to use the machine to vacuum flammable or toxic liquids and dust. It is dangerous to touch the moving parts of the machine, this kind of behavior is completely not allowed. If you have to touch these parts, please turn off the machine and remove the key from the dashboard first. The machine is not equipped with a hood, please do not operate in an toxic smoke area and hazardous area. Prohibit persons other than the operators to transport.

Machine packing

Machine package deliver by flat tools. Machine weight and size are provided in the technical parameters. Forklifts must be placed so that the center of the machine has a half in the truck on the. Packaging must be very careful to avoid collision. need to raise the machine or lift too high. Without too flashy packaging.

Unloading Packing

Opening the machine must be careful and gentle. Machines must use metal or wooden ramp into the ground.

Treatment after unloaded packing

After unpacking, check the machine, install the battery if it isn't installed , if there is a short distance transport after use, disconnect battery cable, remove the brush and suction cutter head. Before the longdistance transport, the machine should be restored to the original packaging. The machine can be implemented within a short distance.

Lifting machine

Use the correct machine to lift machine, but be sure the lifting ability.



Use of scrubber-dryer

Necessary prevention

- 1, The machine must be used only by competent and reliable personnel.
- 2, when the machine is not in use, unplug the start key , and put hand brakes on
- 3, when the machine is not in use, lift up the brush in order to avoid distortion of brush
- 4, Do not park on the slope.

Warning

Before using the machine, first check the battery's liquid volume.

Start the scrubber-dryer

Steps to launch the machine;

- 1, confirm the sewage tank 2.
- 2, fill up the clean water tank 1.
- 3, check the brush raised to above ground. (button 11 for a "stop" Figure .3) *
- 4, check the brake is released
- 5, insert the key 5 to the total control panel (Fig.3) and clockwise (this will give total control system power supply).
- 6, press the button 4 to turn on the suction motor (Fig.3).
- 7, press the button 11 to turn on the brush motor (Fig.3).
- 8, open solution tank by the pressing handle to lever 3. (Fig.3).
- 9, move the joystick 14 on the location of A. (Figure .3)
- 10, begin to travel and get a good speed, slow step on the power pedal 2 (Fig.3).

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Warning

The machine can only be used by authorized operators. Prevent unauthorized use. Any modification, adaptation and application that may lower the safety performance of the machine are prohibited. It will not cause danger if you check the machine when the switch and motors are on off status. Any working behavior that may lower the stability of the machine is prohibited. Please wear gloves and sun-protected glasses while working outdoors.

Danger

In addition to the rules need to be addressed, the person in charge of the machine must make the following clear to the machine operators: Fixed or mobile hoses must be placed on the correct position. If the rack is removed, or the security system is not connected or short circuit, regardless of any reason, the machine must be repaired immediately before the operation. The machine can only be used under the proper conditions according to proper purpose of use. Comply with the same request in accordance with the purpose of the use and maintenance instructions, and in accordance with professional inspection and maintenance conditions. It is prohibited to use the machine to vacuum flammable or toxic liquids and dust. It is dangerous to touch the moving parts of the machine, this kind of behavior is completely not allowed. If you have to touch these parts, please turn off the machine and remove the key from the dashboard first. The machine is not equipped with a hood, please do not operate in an toxic smoke area and hazardous area. Prohibit persons other than the operators to transport.

The rules during operation

Don't allow other people close to the machine. Machines can only be used by an experienced operator authorized by the person in charge. The operator must be in proper physical and mental state, not in alcohol, drugs and under the influence of drugs. Ensure the following: There is no unrelated things on the machine. (Eg, tools, rags, equipment, etc..) After turning on the machine, there is not a strange noise. If there is a strange noise, you must immediately stop the machine and check the cause of the noise. All security guards are turned off properly. Do not lower or raise any doubt about the safety of the operation. Must not work in any way reduce the stability of the machine. To keep a safe distance from the floor And sidewalks which is easy to make the machine fall over the edge or surface. Do not drive on slopes, and do not turn too fast, especially the local board does not flat, do not use the machine in a dark environment. Required special attention near the shelf.

Warning

Do not use water suction system when the water used out. If this happens, it is treated as the improper use of the machine, and the loss of the machine warranty.

Process of cleaning

The process of using the scrubber machine is very simple. Experience can help you choose the most suitable cleaning brush and cleaning detergent, to make decision when to use cleaning and drying processes to improve the cleaning effect. If the ground is very dirty, we will use two-stage process. The first stage is to use the brush in tens of square meters of floor, and the suction head lifted. This will leave detergent on the floor in order to remove the dirt better. The second stage is to lower the squeegee head to vacuum sewage.

Warning

This type of operation must implemented in the place where unauthorized officer must not enter the place; should put an appropriate sign near the cleaning spot. In order to complete the cleaning process, perform the following procedure: press the button labeled with brush mark 11 (Figure .3) to start the brush motor. Turn on clean water tank switch mark 3(Fig.3) to release clean water. To set the speed of the water flow, set the clean water control lever 3 in the middle, so that the entire surface behind the brush will be immediately wet, and there will be no excess water spilling out of the squeegee. Press the button to start the vacuum motor, to lower the squeegee. Step on the accelerator pedal 2(Figure 3), the machine will move forward in the required speed and cleaning job begins. You can choose the speed of the machine by turn the "high low speed switch" to left to run the machine on high speed to get more cleaning efficiency and turn it to right to run on low speed to get better cleaning results. There are two speeds to choose from. Rotary switch 1 (Figure 2), Transferred to the "Low" identifies the machine is set to low speed in order to thoroughly clean. Transferred to the "High" setting the machine to identify the high-speed, clean faster.

When moving the machine backward, pull the joystick 14 (Figure 3) backwards, when vacuuming and cleaning operations are completed, perform the following process.

- Press down the clean water tank switch hand lever to last level to turn off flow.
- Lift the switches mark 11 (Figure 3) upwardsto stop the brush motor and lift up the brush.
- Lift the switches mark 4 (figure 3) upwards to vacuum motor and lift up the squeegee.

Press the button 8(Figure 3) to the "STOP"position, water suction head lift automaticallyfrom the floor.

Water fill and drainage (Figure 4)

Before each cleaning operation, open the lid 12 (Figure 3), fill in the right amount of water and detergent to the clean water tank. The clean water tank is made of polyethylene material, with anti-acid, and anti-solvent to most detergents. After wash, rotate the control lever 3, with the hose 2, the sewage water will be discharged from the sewage tank. Clean the sewage tank thoroughly at least once a week, open the lid 1, then lift the suction filter 4. Must wear protective gloves when performing the above mentioned operations

Choosing the right detergent Select detergent

To obtain good cleaning results, make sure to use the appropriate detergent. If necessary, ask the supplier for professional advice, and remember over using strong detergent may shorten the working life of the machine. Be sure to use low foam detergent or anti-foaming agent, which can avoid damage to the water motor. If you can not get these products, you can use this alternative method, the use of 50cc ordinary wine vinegar before adding recycling bins. Use it clear water tank. Must clean the sewage tank every eight hours, in accordance with the following program:

- twist the handle 5,, opened the lid 6.
- using the sponge, or high-pressure water gun clean the sewage water tank
- After the completion of the above one by one close the lid 6 immediately

Danger

Do not use corrosive products damage water tanks and your health. Necessary to use gloves and protective glasses.

Warning

Before replacing brush, pull start key on the panel to ensure that the motor will not accidentally start



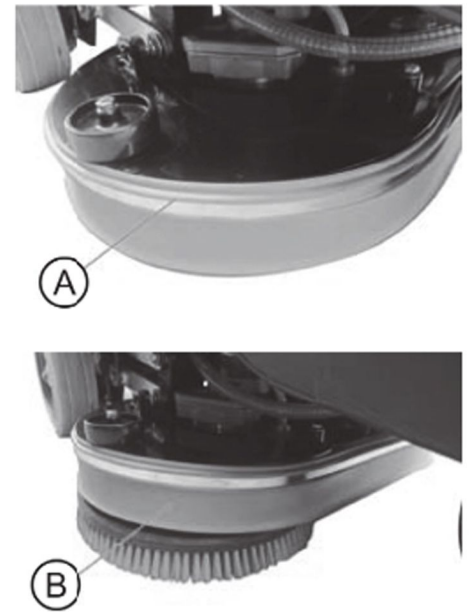
Machine maintenance

Warning

Before replacing brush, pull start key on the panel to ensure that the motor will not accidentally start

Brush replacement

According to the following procedure: remove the cotter pin A, open the Brushes protection of B; open the spring 2, as shown in the arrow Then brush 2-3-4-5 set to leave the center of 1. Spin out from the screw 3, remove the brush 5 from the bracket 4. Install a new brush, please follow the following procedure: with screws 3, the mounting bracket 4 new brush 5; replace brush combination 2-3-4-5, it can be simply installed in the appropriate location.



Ready to use the machine

Adjustment of suction head In order to meet packaging needs, suction head is individually packaged, it should be installed on the drive plate, the step is as follows:

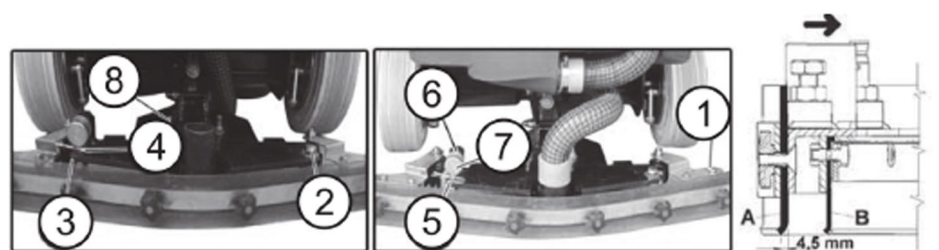
1. Raise the pallet
2. Insert the screws 1 to number 2 and keep a slight tilt as shown in the photo.
3. Lift suction rake head to the left hand side so that the 3 can insert to 4.
4. load the.R split-pin 4 will be released within at pin 3.

5. Install the suction tube in the mouth of suction head. If you want the good floor Drying effect , water suction head must adjust well. Good water rake head operation, it will come into contact with the floor regulate the angle is very important. A rubber brush behind at the strips must be slightly tilted. Shown: this solution will gather in front of the body. To achieve this process the following order:

Loosen the nut 6 and 7 clockwise to tighten, Increase or counterclockwise to reduce the angle of perspective.

When established the right angle, re-tighten the nut 6. Suction head above the ground water height must be adjusted to the appropriate height of plywood and rubber band size too. This operation completed by adjusting the nut 8

meters as follows: Adjusting nut 8 clockwise to increase height between suction and the ground and reduce the pressure on the ground. Adjusting nut counterclockwise to lower height between suction and the ground and increase the pressure on the ground. These nuts are also used adjusting the balance of the floor. To make a rubber band long life, the pressure is as little as possible to achieve better drying results. Note that if the drying effect is often not welcome, that is caused by vacuum system. In this case: Thoroughly clean the tubes, the entrance, filters and water suction head itself Check the case of vacuum cleaner motors Check all the water tank's entrance is closed.



Suction head's rubber blade

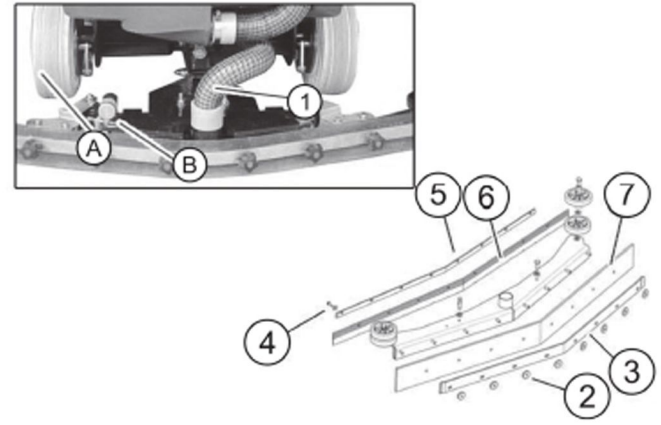
In order to achieve excellent water absorption effect, Rubber blade should maintain its normal operation and replacement work to prevent the destruction of ground loss.

Replace blade

Attention

Bıçak yüzeyi, zemin yüzeyi ile aşındığında, kauçuk emme kafası tırmık bıçağı değiştirilmelidir.

Düz bıçak mükemmel su emme etkisinin temel unsurlarını korumak için mükemmel bir makinedir.



When the knife-edge contact with the floor surface by wear, the rubber suction head rake blade must be replaced. Straight blade is the perfect machine to protect the basic elements of excellent water suction effect. Blade replacement process is as follows: to raise the tray out of the machine head and suction tube 1. Lower suction head, release screw, pull out the R split-pin A and put it in pin B. Loosen the 8 knobs back of belt 3 of and 4 screws back of belt 5. Rotate rubber blade in order to use the new blade. Rubber blade has two sides, and four knife-edge can be used. If all of the flank have been damaged, it should be replaced with the new one. In contrast with the above procedures that a new blade can be installed. The installation process should. fit suction head.

Transmission

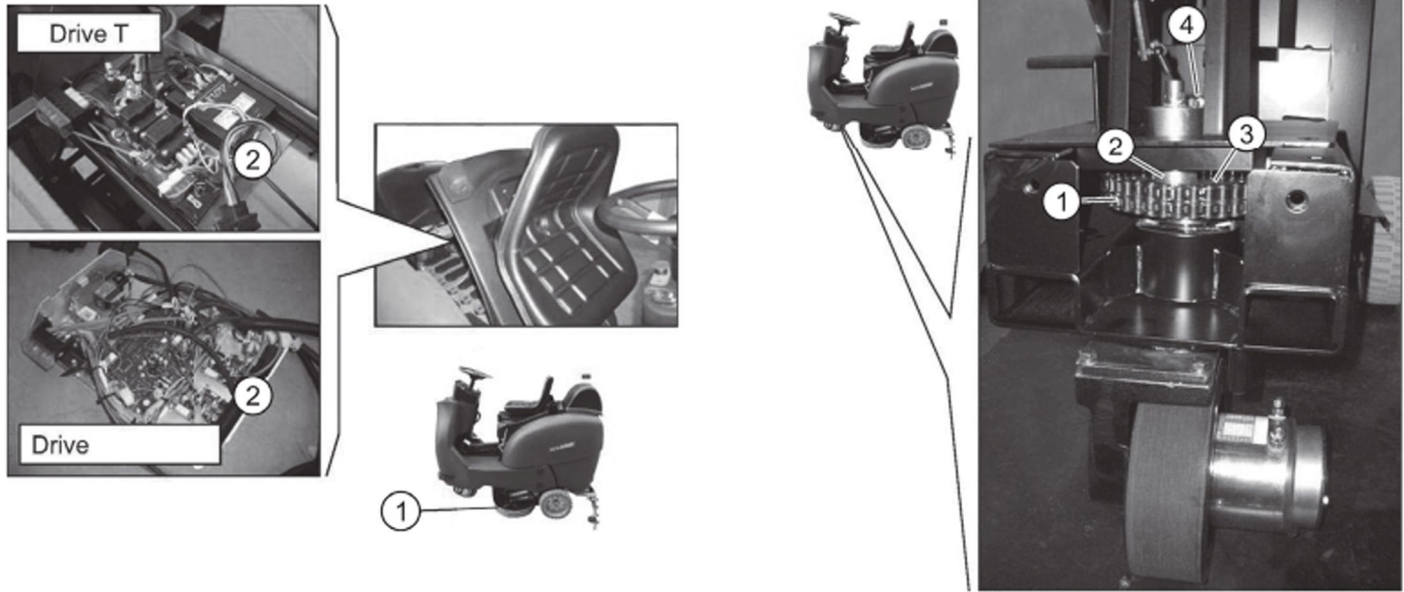
Scrubber-dryer is driven by the electrical system, electric power system consists of a front wheel and two electronic controlled driven wheel. Joystick 14 (fig.3) make the machine moving forward or backward. Pedal 2 (fig.3) can change the moving speed of the machine Instrument panel has switch 14 of three gears, select switch 14 (fig.3), you can set the pace. Travel or work (please refer to control introduction of -10-point)

Warning!

In the driver version S/2-RS/2 and "ZAPI" the third gear speed electric system can be used only for turning not for work. In the driver version T and "ELEK D ROSISTEM " the third gear speed can be used for turning around and work .

Driving operation system

The main driving force generated by wheel 2 spread to wheel 3, and through the driving wheel 3 implementing the front-wheel drive. While driving, the driver control the resistance felt by the steering wheel size, the resistance can be adjusted through the regulation of the nut 4 .



Braking system

Brake system allows washing cars stop in the movement and remain stationary, but also make the vehicle stable in the inclined plane.

1, The brake system works through the step on the foot brake 1 (see Figure 1) brake back wheels making brakes achieved.

2, Braking is achieved through the manipulation of mechanical devices (see Figure 11).

3, The parking brake system can be locked, follow these steps:

(A) step the foot brake pedal 1 (see Figure 3) in the end.

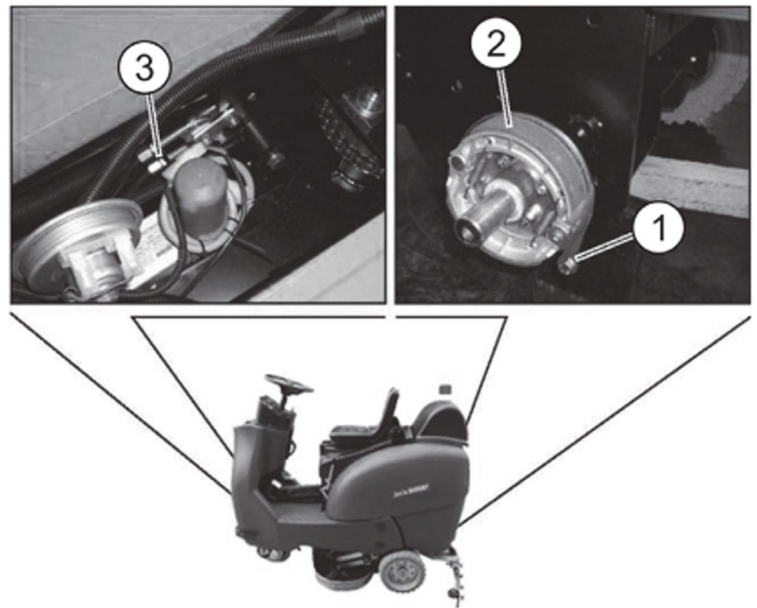
(B) push the joystick 2 (see Figure 3) to the parking stalls.

The step to unlock brake system was: push lever 2 after slam their feet on the foot brake (see Figure 3) to the appropriate gear. After that they can take the foot brake on the driving control.

4, In case of controlling the vehicle, foot brake does not work, you can adjust it through the regulator 3 to achieve correction.

Warning

At least every three months to check and adjust the brakes once.



Suction motor

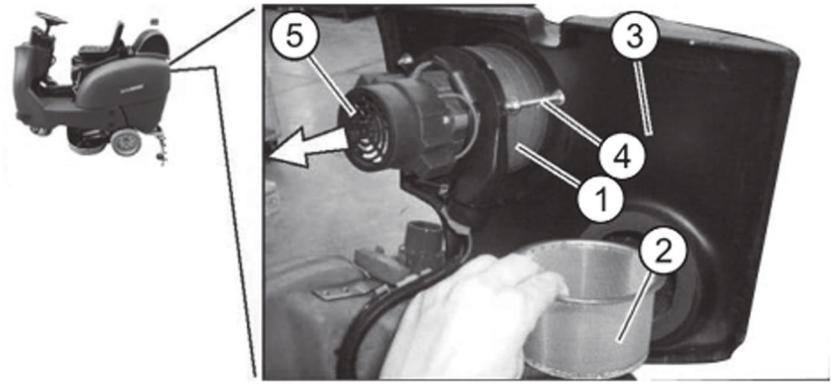
Absorbent motor sewage drain fluid achieved by roller touching the ground.

Button 4 <Figure 3> is water motor's control switch.

The motor and filter must be checked each day and clean the filter in time.

Check the motor and water filter, follow these steps: Remove the front panel touch switches and open motor cover 3, disconnect the power, exit 4 butterfly nut, remove the motor and check (see the arrow shown in Figure 13).

Installation follow reverse above steps.



Warning

The water motor's liner must be checked every six months once, in case of damage please change a new one.

Liner replacement following these steps: Remove the plastic cup 5, release the nut, remove the liner base, carefully check the liner. Installation follow reverse above steps.

Battery

Check the battery performance

The density of the electrolyte is closely related to the battery performance, therefore, measuring the electrolyte density is crucial. Battery electrolyte in the normal state of charge density should be at about 1.260 (300B e). If the density is between 1.26 (300B e) and 1.2 to 240B e), and electrical storage pool only partially charged. If the density is less than 1.14 (180B e), it means that the electrical storage pond has expired.

Measuring electrolyte density

The density of the electrolyte is closely related to the battery performance, therefore, the measurement must be very careful. Electrolyte density measured by density meter. Please note that the correct place density meter in the measure process. In the determination, such as needing to add distilled water, electrolyte, it must read the data after both mixing fully.

Distilled water filling

After charge, fill distilled water to the battery until it is higher than the top of the electrode plate 6mm, battery initial use, water must be added after each charge. Use for some time, Number may be reduced with water views, according to the actual situation, but must ensure that not less than 1 times per week.

Charge limit

The battery after being used for some time, if the density is not lower than the value measured 1.24(280B e), you do not need charging. If the battery is long-term over-charging, it will significantly reduce the battery life. Solutions liquid's suitable temperature when Charging should be less than 45°C or less. When charging if the electrolyte is higher than environment temperature 10- 12°C, No matter how much the temperature of the electrolyte, over-charging of circumstances may occur. When the meter shows that only 5-10% of the electricity, the machine can only absorb dust and can't sweep the floor.

Battery charging areas

Battery in the charging process will produce a certain fuel gas, where the charging process of charging areas must be maintained adequate ventilation and can't have any electricity, fire. Charging place not only to maintain adequate Ventilation but also to ensure that the room temperature maintained at 40-45°C below. Place in the charge of existing inadequate ventilation circumstances, the user can set up ventilation ducts (Can't share a emission Mouth with the original chimney), or install a fan to resolve the problem.

Not continuous use or long-term idle

If the battery is not used continuously, even if the electrolysis liquid number is in the normal range, every month, users must give the battery discharge to keep cells alive again. If the battery needs a long period idle, it must be saved in a dry cool place. Users must recharge the battery completely at least a time monthly. At the thorough process of charging, the battery's every single cell should be seen bubbling, voltage and electrolyte density reading number must have a stable record of 3-4 hours. Under any circumstances, battery of a long idle time must be charged before use and electrolysis quality testing.

Install the battery

The steps to install the battery components are as follows:

Remove the steering wheel, unscrew the nut 1 (see Figure 13)

Move away Block, unscrew the nut 2 (see Figure 13)

Remove the battery strap, unscrew the nut 3 (see Figure book 13)

Before installing the battery, be sure to check all the components necessary to be intact. Battery has clean appearance. In connection access port of Vaseline or grease can be coated. If the battery electricity has been loss before installation, then wait until after full installation.

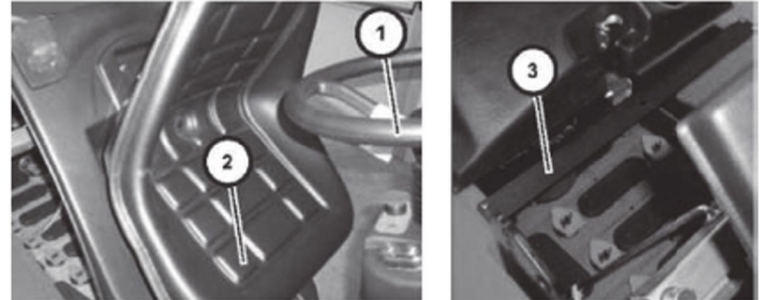
Battery charger connection

Steps to replace batteries is as follows:

Remove the steering wheel 1

Remove Seat 2

Remove the strap 3



Security check routine control of maintenance operations

(1) sweeper must be checked its security, damage or failure by professional and technical personnel in accordance with the following steps: Check before you turn the engine off After that change parts or maintenance In a certain time interval, implement in accordance with the "routine maintenance and operational control" instruction sheet.

2) every 6 months in normal working status check safety devices, inspector must be the authority of the expert organization. To ensure the Safety devices in normal operation, the machine must be checked 5 years each school year by skilled personnel histology.

3) The person responsible for the machine must be checked annually in accordance with the conditions required by the machine, check the machine during the period, the responsible person must judge whether sweeping machines are still in accordance with technical safety regulations. Then mark the drawing board to come up with what has been said checked.

Perform regular maintenance procedures	Each interval					
	8	40	125	200	500	1500
1 Clean repair water tank	X					
2 clean Vacuum cleaner motor filter	X					
3 Check the filter tank	X					
4 clean the water tank filters		X				
5 Check the vacuum pipe and suction head	X					
6 Check the brush status		X				
7 Check the edge of the suction head		X				
8 Gear chain oiling					X	
9 Check the motor brushes every six months					X	
10 Check safety devices (micro-switch, horn, emergency stop button, etc.)		X				

Problem	Reason	Remedies
Suction head inadequate drying	Old rubber adhesive Tube is free from obstruction Adjustment of brush is not suitable Suction head blocked Burning vacuum cleaner motor Motor carbon brush old Brush position is not low enough	Replace Rubber Clean Pipes Adjust brush Clean block at suction head Check and replace the motor Replacing carbon brushes Check the lower brush
Cleaning agent can't flow on the brush average	Brush water supply blocking Cleaning agent valve closed or not open enough Water pipes by extrusion No water in water tank	Washing pipe lines Open the cleaning agent valve Restoration or replace of piping Add water to the tank
Machine wash result is not satisfactory	Old brush Dashboard errors led to the brush on ground pressure is not enough	Replace brush Increase the brush pressure
Machine can not start	The main switch between 5 and 3 can not switch Battery unit burn Micro switch set incorrectly Pressed with a sudden emergency stop button	Clockwise rotation switch When the red light on, check, if necessary, replace Warning! Fuse is in the control unit, never use a high-level fuse, and will cause harm, if the fuse repeatedly has error, please contact service center. Replace Micro Switch Release emergency stop and restart the machine (See washing machine start program)
The machine does not start or stop suddenly	Battery terminal relaxation The operator touch micro switch cut off the power system micro switch under the seat of power has error or not connected The operator has started and the seat of micro fuse has been broken	Connect the battery Release button and start the process repeatedly Replace or connect Micro-switch Sit down, turn off the machine and then restart

Problem	Reason	Remedial method
After the machine is not moving the work forward	Drive pedal failure Control component failures	Check the connection Check the control section
Vacuum cleaner motor shut down or start	Tank float switch cut off vacuum motor power supply (Drive S and Jumbo series, this will be displayed through the instrument panel 72 the alarm code)	Turn off vacuum cleaner motors, empty the water tank
Difficulty moving the machine	Brake is pressed	release brake switch
Stop the machine has water leakage	Liquid valve open Damage to piping or seals	Close the valve Replacement of pipes or seals
The system can not reduce the increase in brush	Fuse fault Starter can't accept the current Starter motor damage Circuit board problem	Replacement Check Replacement Replace circuit board

LABOMAT 195B

BATTERY	36 V / 200 Ah	VACUUM MOTOR	550 W
BRUSH ROTATING	180 rpm	BRUSH MOTOR	650 W x 2



IMPORTER:

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