



LAVINA ELITE L20NEU/20NOEU

User Manual



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WARRANTY AND RETURNS

WARRANTY POLICY FOR LAVINA® ELITE MACHINES

A warranty card must be submitted to Superabrasive within 30 days of purchase in order for the foregoing warranty to apply.

You can either mail a hard copy of the warranty card or submit it electronically - see page 2.

Superabrasive warrants, from the time of delivery and receipt by the original customer, new and unused products sold by Superabrasive or Superabrasive-appointed distributors or dealers. Goods shall be free from defects in materials and workmanship. Superabrasive or a Superabrasive-appointed repair facility shall either replace or repair any defects in the Goods resulting from faulty design, materials, or workmanship. Products repaired or replaced during the warranty period shall be covered by the foregoing warranty for the remainder of the original warranty period, or ninety (90) days from date of the repair or shipment of the replacement, whichever is longer. Spare parts for repair will be either new or equivalent to new.

Warranty period shall be 2 years from the time of delivery and receipt by the original customer, or 600 operating hours on the machine - whichever occurs first. Superabrasive will cover the shipping charges for the transportation of the machine to Superabrasive (or an approved repair facility) and back to the customer (within the contiguous 48 United States) in the event that the damage occurs and is reported within 200 operating hours. Shipping charges, if covered by Superabrasive, must be agreed upon in advance and approved by Superabrasive. Thereafter, the customer will have to cover the shipping charges to Superabrasive and back. Superabrasive will not warranty Goods after a period of 2 years from the time of delivery and receipt by the original customer, or 600 operating hours on the machine - whichever occurs first.

Superabrasive shall not be liable for any defects that are caused by circumstances that occur after the Goods have been delivered and whilst the Goods are in the possession of the purchaser. Furthermore, the warranty does not include normal wear and tear or deterioration. Wear parts are not warranted. Superabrasive is not liable for defects arising out of use of non-OEM parts.

The Warranty is void if the purchaser has not followed the maintenance plan stipulated by the machine's manual and warranty card. The warranty is void if the purchaser repairs said Goods himself, or if repairs are conducted by a repair facility that is not approved by Superabrasive. Superabrasive's liability does not cover defects which are caused by faulty maintenance, incorrect operation, faulty repair by the purchaser, or by alterations conducted without Superabrasive's prior written consent. The same applies to any alterations of the Goods or services performed by another party other than Superabrasive, a Superabrasive-appointed distributor, or a Superabrasive-approved repair facility. The warranty is not applicable on a defect that arises due to tools or parts that are not original to Superabrasive. Replaced defective parts shall be placed at Superabrasive's disposal and shall become property of Superabrasive. If such defective parts are replaced within the warranty period, the shipping charges will be covered by Superabrasive. In warranty complaint cases, when no

defects are found for which Superabrasive is liable, Superabrasive shall be entitled to compensation for the labor, material cost, and shipping charges, incurred by Superabrasive as as a result of the complaint.

The warranty herein is non-transferable, and only applies to the original owner or purchaser of the machine.

RETURN POLICY FOR LAVINA® ELITE MACHINES

The Lavina[®] ELITE machines may be returned, subject to the following terms:

In no case, a machine is to be returned to Superabrasive Inc. for credit or repair without prior authorization. Please contact Superabrasive Inc. or your local distributor for an authorization and issuance of a return authorization number. This number along with the serial number of the machine must be included on all packages and correspondence. Machines returned without prior authorization will remain property of the sender and Superabrasive Inc. will not be responsible for them. No machines will be credited after 90 days from the date of invoice.

All returns must be shipped freight prepaid. Returned machines may be exchanged for other equipment or parts of equal dollar value. If machines are not exchanged, they are subject to a fifteen percent (15%) restocking fee.

1. GENERAL INFORMATION

This owner's manual is intended for the operator of the Lavina® ELITE machine, the servicing technician as well as for anyone involved with operating or servicing the machine. We recommend that you read the instructions very carefully and follow

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them strictly. The manual includes information about assembling, using, handling, adjusting and maintaining your Lavina® ELITE floor grinding and polishing machine.

1.1 MANUFACTURER

Superabrasive was founded in 1987, as a manufacturer of high quality diamond tools for the stone and concrete industry. Today, Superabrasive is one of the world's leading companies in the production of diamond tools and floor grinding machinery. At Superabrasive, we strive to deliver the very best solutions to our customers, and enable them to work more efficiently.

1.2 GENERAL DESCRIPTION

The Lavina® ELITE machine is intended for grinding, polishing and buffing concrete, marble, granite, limestone and terrazzo surfaces with diamond tools. Additionally, the machine could be used for grinding wood floor surfaces.

The Lavina® ELITE machine is a three-disc machine, which can be used wet or dry.

For best results, use only tools manufactured or recommended by Superabrasive and its distributors.

A WARNING

The Lavina[®] ELITE machine is manufactured and fitted for the above-mentioned applications only! Every other use may possess risks to the persons involved.

1.3 ENVIRONMENTAL CONDITIONS

The temperature range for operating the Lavina® ELITE machine outdoors is between 41°F and 86°F or 5°C and 30°C. Never use the Lavina® ELITE machine during rain or snow when working outdoors. When working indoors, always operate the machine in well- ventilated areas.

1.4 VACUUM CONNECTION

A connection for a vacuum dust extractor is located on the carriage. The Lavina® ELITE machine does not include a vacuum dust extractor. The customer must purchase the vacuum dust extractor separately. The vacuum dust extractor must be adapted for floor grinders and have a minimum air displacement of 310m3/h with a negative vacuum of 21 kPa.

1.5 LAVINA® 20EU MAIN COMPONENTS

The Lavina® ELITE machine is made of two main component sections:

- 1.5.1 Carriage which contains:
 - Handle the handle on the frame is adjustable in height and allows the operator to work in a correct and safe posture (see point 3. Handling and transportation).
 - LED lights the LED lights (Fig.1.1; Fig.1.2) enables the operator to work in darker areas. Existing lighting system does not replace adequate overhead lighting.
 - **The control panel** (fig.1.3) is positioned on top of the frame and contains buttons and switches for start/stop the machine also for the pump, lights, RPMs control switch, hour meter unit, EMG button and the USB port for charging your phone.
 - **The water tank** is on the opposite side of the frame, so that the weight of the water does not affect the operation of the machine. The frame weight, on the other hand, is fully absorbed by the driving wheels. An electric pump sprays the water through a front mist system or internal under cover.
 - Power box
 - Water pump

1.5.2 Machine head which contains:

- The Electric motor its mounted on the base plate and it is driving the three heads with a belt system.
- **The planetary motion** it derives from the main engine, driven by a simplex roller chain.
- **The self-leveling Guard** is designed to have contact with the surface. Anytime, no matter the height of the tool used.
- "Quickchange" tool holder is designed to hold the tools with "Quickchange" connection (All of our new tools use the "Quickchange" connection and there is no more foam holders).

User Manual



Figure 1.1



Figure 1.2



Figure 1.3

Figure 2.3

1.6 TECHNICAL DATA

	Lavina [®] 20NEU		Lavina [®] 20NOEU		
Voltage/Hz	3 ph x 380-400V 50-60	3 ph x 380-400V 50-60Hz		1 ph x 200-240V 50-60Hz	
Amperage	Max 15 Amps		Max 15 Amps		
Power	5.5 kW	7.5 HP	5.5 kW	7.5 HP	
Tool holder rpm	400-1100 rpm	•	400-1100 rpm		
Direction off rotation	The heads have clockw	vise / right rotation	The heads have clockwise / right rotation		
Working width	510mm	20″	510mm	20″	
Tool diameter (QC Plate)	3x 225 mm	3x 9″	3x 225 mm	3x 9″	
Weight	265 kg	584 lbs	265 kg	584 lbs	
Grinding pressure Weights upward	85 kg	187 lbs	85 kg	187 lbs	
Grinding pressure Weights downward	130 kg	287 lbs	130 kg	287 lbs	
Application	wet and dry wet and dry		•		
	Cam lock E250		Cam lock E250		
Vacuum hose port	or hose 2"		or hose 2"		
Water tank capacity	201	5.2 gal	201	5.2 gal	
Water feed	Peripheral and front mist with pump		Peripheral and front mist with pump		
Cable length	17.4 m	57 ft	17.4 m	57 ft	
Machine LxWxH	1709x557x1195 mm	67.3x21.9x47"	1709x557x1195 mm	67.3x21.9x47"	
Packing LxWxH Crate 1	1390x710x1400 mm	54.7x28.5x55.1"	1390x710x1400 mm	54.7x28.5x55.1"	

1.7 VIBRATIONS

The vibrations of the machine are within the limits of directives and harmonized standards from the European Union when the

Lavina® ELITE is operated with the recommended tools and in normal conditions.

SONOROUS EMISSIONS

The sonorous emissions are within the limits of directives and harmonized standards from the European Union when the Lavina[®] ELITE is operated with the recommended tools and in normal conditions. However, as previously stated, the operator must wear ear protectors.

LABEL DATA

The data on the label provides the correct Voltage and kW (needed for operational purposes);

Weight (needed for transportation purposes); production year and serial number (needed for maintenance purposes). **CUSTOMER SERVICE**

For customer assistance and technical support call your local distributor or call Superabrasive Inc. at 1-800-987-8403 or visit us at: <u>www.superabrasive.com</u>, where you can download a copy of this manual.

1.8 CE-CERTIFICATION

THE LAVINA® ELITE MACHINE IS DESIGNED TO OPERATE CORRECTLY IN AN ELECTROMAGNETIC ATMOSPHERE OF INDUSTRIAL TYPE AND IS EQUIPPED WITH ALL THE MECHANICAL AND ELECTRICAL SAFETY PROTECTIONS IN CONFORMITY WITH THE FOLLOWING EUROPEAN CEE RULES AND REGULATIONS:

THE LAVINA® ELITE MACHINE COMPLIES WITH THE SAFETY DIRECTIVE FOR MACHINES 2006/42/EC, THE EMC DIRECTIVE 2004/108/EC AND THE LOW VOLTAGE DIRECTIVE 2006/95/EC.

ALSO COMPLIES WITH THE NORMS IN USE BDS EN ISO 12100, BDS EN 13862,BDS EN ISO 13857, BDS EN 349, BDS EN ISO 13850,BDS EN 13732-1, BDS EN 953, BDS EN ISO 13849-1,BDS EN 1037, BDS EN ISO 5349-1, BDS EN ISO 11201, BDS EN ISO 3744, BDS EN 1033:2002, BDS EN 60204-1,BDS EN 1837, BDS EN 61000-6-4, BDS EN 61000-6-2, BDS EN 61000-4-2, BDS EN 61000-4-2, BDS EN 61000-4-5,BDS EN 61000-4-11, BDS EN 55016-2-1

TEST RESULTS ARE A PART OF THE MACHINE'S TECHNICAL INFORMATION AND CAN BE SENT UPON A SPECIAL REQUEST. THE MACHINE IS DELIVERED WITH THE CE MARK EXPOSED AND PROVIDED WITH A EC DECLARATION OF CONFORMITY. **Original Language**

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2. SAFETY INSTRUCTIONS RECOMMENDED USE

The LAVINA® ELITE machine is

designed and manufactured to grind and polish concrete, terrazzo, and natural stone floors. It can be used for renovations as well as for polishing. The machine is designed for dry or wet use. When using it dry, use a vacuum of appropriate size. For more information, please refer to the chapter on handling the vacuum connection.

2.1 PROHIBITED USE A WARNING The machine MUST NOT be used:

For applications different from the ones stated in the General

Description chapter.

For not-suitable materials.

In environments which: Possess risks of explosion

Possess high concentration of powders or oil substances in the air

Possess risks of fire

Feature inclement conditions. Possess electromagnetic radiation.

2.2 PREPARATION FOR WORK

Make sure that You have closed

ORK 🛕 WARNING

the work area, so that no person unfamiliar with operating the machine can enter the area. The tool plate and tools are adjusted to the machine properly. There are no missing parts of the machine.

The machine is in upright working position. The protection devices are working properly. The electrical cable is free move and follow the machine easily. In order to keep the electrical cable from being

damaged, no vehicle should cross the zone where electrical cables are situated.

2.3 PROTECTION DEVICES A WARNING

The machine is equipped with several protection devices including the following:

An emergency stop button

A protection skirt and hood for protecting the tool plates.

These devices protect the operator and/or other persons from potential injuries. Do not remove them. On contrary, before using the machine, please ensure that all protection devices are mounted and function properly. The Security plate prevents the QuickChange pads from loosening during use.

2.4 ARREST FUNCTIONS

A WARNING

Functions of arresting the machine are following: Button to stop the motor (category 1) Emergency button (category 1)

2.5 SAFE USE A WARNING

The LAVINA® ELITE is designed to

eliminate all risks correlated with its use. However, it is not possible to eliminate the risks of an eventual accident with the machine. Unskilled or uninstructed operator may cause correlated residual risks. Such risks are:

Position Risks due to operator's incorrect working position Tangling up Risks due to wearing inappropriate working clothes Training Risks due to lack of operational training

NOTE: In order to reduce all consequences of the above- mentioned risks, we advise that machine operators follow the instructions in the manual at all times.

2.6 RESIDUAL RISKS During the normal operating

\land WARNING

and maintenance cycles, the operator is exposed to few residual risks, which cannot be eliminated due to the nature of the operations.

2.7 BEFORE YOU BEGIN

Working area must be clear from any debris or objects.

A first-time operator must always read the manual and pay attention to all safety instructions.

All electric connections and cables must be inspected for potential damages.

Ground wire system of the power supply must be also inspected. Perform general daily inspections of the machine and inspect the machine before each use.

Always inspect the safety devices: Mount the Security plate for the Quickchange pads.

\Lambda WARNING

The emergency break must be clear and working

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The tool protector must be working

The machine must be clean

Never operate the machine in the rain!

Confirm that there are no missing parts especially after

transportation, repair, or maintenance.

Before filling the water tank with water make sure the machine is not working and the main switch is turned off. Before turning on the machine make sure that the base is placed on the floor, the machine MUST NOT be in an upright position when turned on!

2.8 OPERATING MACHINE A WARNING

When operating the LAVINA® ELITE , make certain that there is no one, but you around the machine.

Never leave the machine unattended while working.

The electrical cable must move freely and must be damage-free.

The water hose must move freely and must be damage-free.

Check the floor you will work on to make sure it is not too uneven. If this is the case, it may damage the machine.

2.9 AFTER WORK IS COMPLETED A WARNING

Clean the machine and its surroundings properly Empty and clean the water tank Unplug the machine and wind up the electrical cable Store the machine in a safe place

2.10 THE WORK AREA MARNING

Make certain that people or vehicles do not enter the work area. Avoid cables and hoses being in the way. Always check the floor for debris

2.11 PERSONAL PROTECTION EQUIPMENT (PPE) A WARNING

Always wear safety shoes when working with the machine. Always wear ear protectors

when working with the machine.

All personnel in the immediate work area must wear safety glasses with side shields.

Always wear safety gloves when changing the tools. Always wear clothes suitable for the work environment.

2.12 OPERATOR A WARNING

The LAVINA[®] ELITE machine.

The operator must know the machine's work environment. Only one operator at a time can work with the machine. The operator must be properly trained and well instructed prior operating the machine.

The operator must understand all the instructions in this manual.

The operator must understand and interpret all the drawings and designs in manual.

The operator must know all sanitation and safety regulations pertaining to the operation of the machine.

The operator must have floor grinding experience.

The operator must know what to do in case of emergency.

The operator must have an adequate technical knowledge and preparation.

Original Language

3. HANDLING AND TRANSPORTATION

3.1 ADJUSTING THE HANDLE

The Handle on the frame is adjustable in height and allows the operator to work in a correct and safe posture (Fig. 3.1, Fig. 3.2, Fig. 3.3, and Fig.3.5). Choose the upright position to move easy the machine.





Figure 3.2



Figure 3.3

Figure 3.4

3.2 TURNING THE MACHINE FROM WORKING TO TOOL MOUNTING POSITION

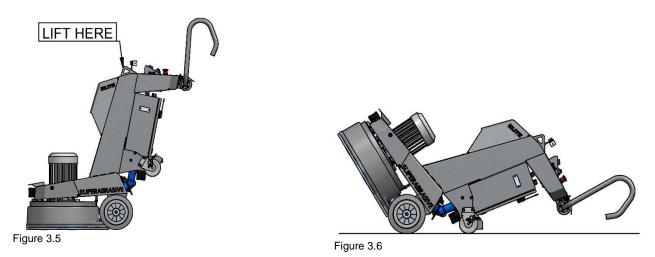
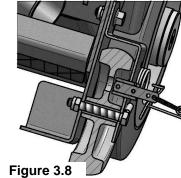




Figure 3.7



Put the handles of the carriage as shown on (Fig. 3.5). **Ensure** that the water tank is empty before flipping the machine. Push the handles and flip in position shown on (Fig. 3.6). If necessary, help by placing your foot on the heel near the control box. **Always keep both rear wheels locked (Fig. 3.7)**. Unlock the wheels (Fig. 3.8) only when you wish to move the machine.

3.3 LIFTING

Lifting the machine by crane is possible by using the handles of the carriage (see fig. 3.5 and fig. 3.6).Do not lift any other loads on the machine. Always use hoisting equipment rated for 300 kg (660 lbs) or greater.

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3.4 STORAGE

Always store the LAVINA[®] ELITE machine in a dry place. Never transport the LAVINA[®] ELITE machine unprotected; it may be damaged if transported unprotected and exposed to rain or snow.

\Lambda WARNING

When the machine is in storage and the temperature may fall down to or below 32F (or 0° C). You should empty the water from the system:

- Pull out the hose of the tank (Fig.3.7)
- With compressed air blow out the water from the system in the two positions of the turn-cock.



Figure 3.7

4. OPERATION

4.1 PRELIMINARY CONTROLS

Inspect the working area as explained in the safety instructions. Fill in the water tank for wet use or connect the vacuum extractor and ensure that the vacuum hose is clear and it will follow the machine easily.

Make sure that the electrical motor is connected with the power box and then you can connect the power cable with the electricity and start the machine.

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4.2 WATER FLOW CONTROL SYSTEM

. The operator can direct water to be sprayed in front of the machine (Fig.4.1) by positioning the lever in the horizontal position (Fig.4.2). Water will spray under the cover of the machine when the lever is in the vertical position (Fig.4.2). The pressure regulator is located above the lever (Fig.4.3) and controls the water pressure in the system. You can see the whole water flow control system - main and filtering parts in fig4.4. Fig. 4.5 and fig. 4.6 shows how to remove and clean the filter mesh. In the instances where more water is required to spray under the cover of the machine, the orifice plate (shown on pos.8 of table 11.9 in "spare pats") can be removed.

ALWAYS USE CLEAN WATER TO PROTECT THE SYSTEM FROM DIRT.



Figure 4.1

Figure 4.2

Figure 4.3

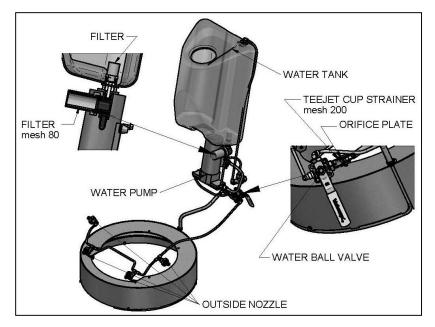


Figure 4.4



Figure 4.5

Figure 4.6

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4.3 ADJUSTING AND MOUNTING TOOLS

Lavina[®] 20EU uses tool holder A63. With this new holder every one of our tools uses the "Quickchange" connection. To change the tools you need first to unlock the butterfly (fig 4.6 in blue) by using the key we provide you (you can see it in the pictures fig. 4.7) remove the security plate (fig 4.6 in red) then load the tools you want and insert the security plate again so the tools cannot go backwards, rotate and lock the butterfly (as shown in fig.4.7). As you can see in fig. 4.6, for some of the new tools you need to remove the security plate as they don't need locking system at all but for the others always make sure that the tools are securely locked.



Figure 4.6

Figure 4.7

Figure 4.6

In Lavina ELITE the holder is initially mounted with 3 buffers.

Mount the tools only after ensuring that there is enough diamond bond material left. Be sure that the plates are always clean before mounting.

WARNING: Always secure the Quick Change tools with the butterfly (Fig.4.6 in blue), lock with the tool holder key (Fig.4.7) and make sure that the butterfly is securely locked and it holds the security plate not to fall off.

4.4 VACUUM CONNECTION

To connect a vacuum cleaner, the Lavina ELITE is supplied with vacuum hose Cam Lock inlet C250 / vacuum hose diam. 2, 5 in (63mm) (Fig.4.8). You can also dismount the Cam Lock adaptor and connect a hose with outside diam. 2in.

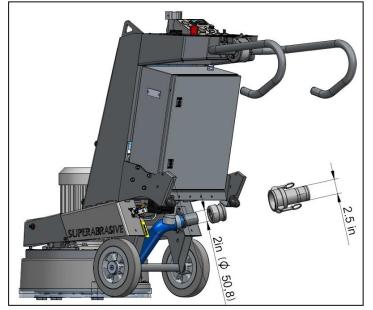


Figure 4.8

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4.5 CONTROL BOARD

1. ALARM glowing button. Usually glows when you pressed the EMG button.

2. USB charger.

3. STOP button which stops the motor.

4. EMERGENCY button used to stop the motor in case of emergency.

5. POWER glowing button - it glows when the machine is connected to the electricity.

6. Forward/Reverse switch. Select forward for clockwise rotation of the grinding plates or reverse for counterclockwise rotation of the grinding plates (recommended configuration). The preferred operating direction should be when the switch is in the forward position. The proper direction of rotation of the motor (counterclockwise) is indicated by an arrow on its cover.

7. Water pump switch. Glows in orange when the water pump is working.

8. LED lights switch

9. QR code. When you scan it with your phone for example, it will redirect your browser to Lavina manuals page.

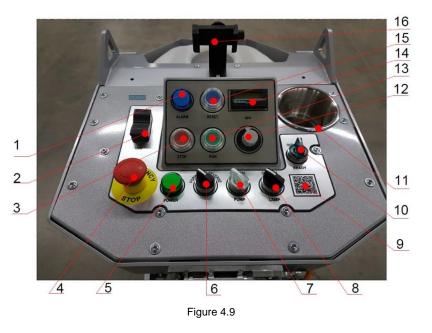


Figure 4.9

10. READY ON / OFF switch. If you want to start the motor it must be ON as it puts the inventor into standby mode (it glows

when it's turned ON). If it's off the inventor will be out of standby mode and you cannot start the motor. The switch returns to its starting position after being released.

11. Cup holder.

12. Potentiometer. Controls the RPM of the grinding plates in a range of 300-1100 rpm.

13. RUN button. Start the motor (ready ON/OFF switch must be ON).

14. Digital Tachometer. Indicates the revolution per minute of the grinding plates (not the revolution per minute of the entire unit).

15. Reset button. Resets the alarm of the inverter.

16. Phone holder.

4.6 STARTING THE MACHINE

First, follow the directions in the chapter on Safety Devices and Safety Instructions. Next, release the **emergency stop (4)**, turn the **Ready switch (10)** to the ON position to put the machine in standby mode. Check the **potentiometer (12)**, and ensure that it is set to the working speed. If you are working wet, add water to the floor surface by starting the **pump (7)**. If you are working dry make sure your machine is connected to the vacuum unit. Finally, hold the machine firmly and push the **RUN button (13)**.

4.7 OPERATING THE MACHINE

Guide the machine in straight lines across the floor, slightly overlapping the previously completed surface with each new line. Work at a constant speed, allowing the tools time to work at a speed appropriate for the tools' grit size. Avoid vibrations. Do not stop the machine while tools are still running as they will mark the surface of the floor. When working wet, select the destination of the water feed with the water tap (fig. 4.2) and periodically run the pump to release water onto the floor surface. Starting the pump is possible only if the machine motor is on. When working dry, check the floor surface periodically for dust accumulation. Check regularly to see if you're vacuum works properly.

4.8 STOPPING THE MACHINE

The stopping of the machine must be done gradually until the motor stops. Do not stop moving the machine before the motor comes to rest, as the tools could damage the surface.

To stop the machine:

1.Push the STOP button (3) .

2.Turn the ON/OFF (10) switch in position OFF, this will cut the voltage to the invertor and the green light will turn off.

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5. TOOLS AND ACCESSORIES

The tool holder key (Fig. 5.1) is used for mounting and dismounting the security plate. Always use the key for mounting.

Item number is A03.00.00.00

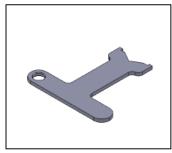


Figure 5.1

Security Plate (Fig.5.2) used to ensure the "Quickchange" tools. Item number is A63.00.01



0

Figure 5.2

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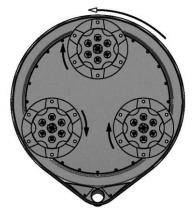
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6. POPULAR TOOLS

The heads have clockwise / right rotation. Use the black PCDs and Carbide Scrapers / available reverse /.

RECOMMENDED TOOLS

Note: All of our new tools use the "Quickchange" connection as mentioned above.





QuickChange System and Tooling feature extremely fast and convenient tool changes, and a long tool life, providing for great long-term cost savings. The QuickChange pads are produced in four different bonds for super hard, hard, medium and soft concrete, in a variety of grit sizes. They are offered with 1 or 2 buttons or rectangular segments, which allows you to customize the aggressiveness of the cut.



Calibra grinding discs: our popular ceramic bond discs are designed for the removal of difficult scratches and they save you valuable time by eliminating the need for multiple passes with metal tools. They can be used wet or dry, and are best for hard concrete applications.



NATO[®] polishing discs feature a special resin formula designed for both wet and dry applications and a unique design with wide channels allowing for work on a cleaner surface and ensuring a quality polish.



V-HARR[®] **Premium Polishing Pads** are designed for mechanically polishing and restoring concrete; also ideal for terrazzo and hard stone floors. Dry use is strongly recommended.

Use Only Superabrasive's Recommended Tools. For More Tooling Options, Visit www.superabrasive.com

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7. MAINTENANCE AND INSPECTION

7.1 CLEANING

Keep your machine clean. Cleaning the machine on a regular basis will help detect and solve potential problems before they cause damage to the machine. Most importantly, check and clean the tool plate connections, vacuum hoses, water tank and the Propane installation.

7.2 CHECK HOURLY

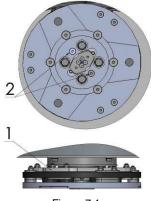


Figure 7.1

7.3 CHECK DAILY

After operating the Lavina[®] ELITE machine, the operator should conduct a visual inspection of the machine. Any defect should be solved immediately. Pay attention to power cords, plugs and vacuum hoses, loose bolt or screws.

Tool holders: Buffers and elastic element are consumables and must be visually checked daily and replaced if needed. See that flanges or discs are mounted and locked well in place. The key lock holders (butterflies) should be also checked.

Check the rubber buffers and fixing of the holders. The flange holding the buffers (Fig.7.1_1) has to be firmly fixed to the unit. A gap seen there means that there are loose screws fixing the holder. The screws have to be tightened immediately for safe operation. Working with loose screws on the holder could also cause bad damages on the machine. Tightening force of the screws has to be 22...25N.m(16...18 ft/lbs).

It is very important to regularly check the screws (Fig.7.1_2) that fix the "Quickchange" holder to the safety part, so that the holder will not fly away if the buffers get damaged. "Quickchange" should be clean.

7.4 CHECK AND REPLACE AFTER THE FIRST 15 WORKING HOURS

Check the belt tension after 15 hours working with the machine.

The bottom cover has a control cover (Fig.7.2) that allows fast and easy control and correction of the belt. It is recommended to check the tension of the belt after the first 15 hours and to tighten if necessary. For the correct tension, see TROUBLESHOOTING "mounting the belt". Every time you open the control cover, mount back all the screws.

7.5 CHECK AND REPLACE EVERY 200 WORKING HOURS

Every 200 working hours the operator should inspect all parts of the machine carefully.

Most importantly, inspect and clean the tool plate connections, vacuum hoses and water tank. Also, check the water flow. Check the guard assembly. Make certain the wheels are clean and rotate properly.

Inspect the control buttons. If there are defective control parts, they should be replaced immediately. Replace worn vacuum- and water hoses.

Carefully inspect the seal rings and bearings of the grinding units, and replace any showing signs of excessive wear. For more information, refer to chapter troubleshooting below.

Open the service cover on the motor base (Fig 7.2) (Fig 7.3) to check of the planetary chain. Lubricate the chain with special lubricant for chains and correct the sag if needed. For sagging correction (See TROUBLESHOOTING).

Dismount the tool holders (See Troubleshooting) replace all parts (elastic element, buffers, and sealers) with the slightest damage or consume. **Return** machine to **authorized service center** for overall checkup of the Engine. For Propane safety, have the machine serviced by a **Certified Technician**, including emission check.

7.6 CHECK AND REPLACE EVERY 400 WORKING HOURS

Besides the checks of 200 working hours, replace sealer and V-rings like described in chapter "TROUBLESHOOTING REPLACING BELT AND PULLEY UNITS. Check if belts and bearings are in good condition, change if needed.

Return machine to authorized service center for overall checkup of the Engine. For Propane safety, have the machine serviced by a Certified Technician, including emission check.

7.7 VACUUM

As stated previously, frequently check hoses and othe r parts for clogging.

7.8 WATER LEAKS

Replace any leaking parts immediately as the water could damage your machine

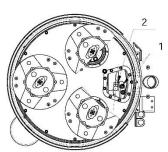


Figure 7.2



Figure 7.3

Figure 7.3

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7.9 MECHANICAL PARTS

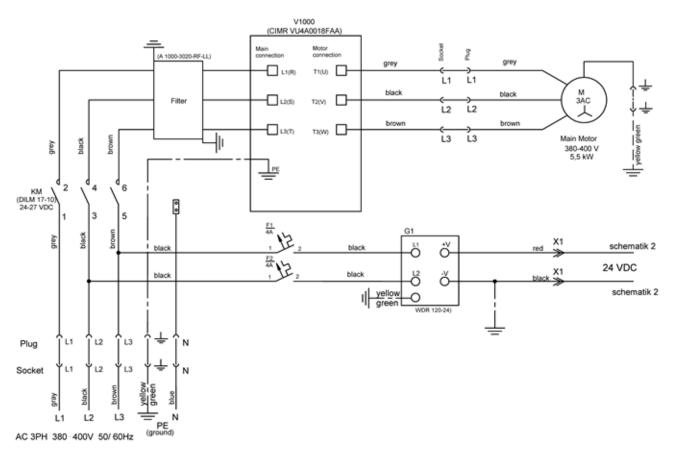
Parts such as the belts, seal rings, cap rings, spiders and buffers and guard assembly are subject to wear and should be replaced as needed.

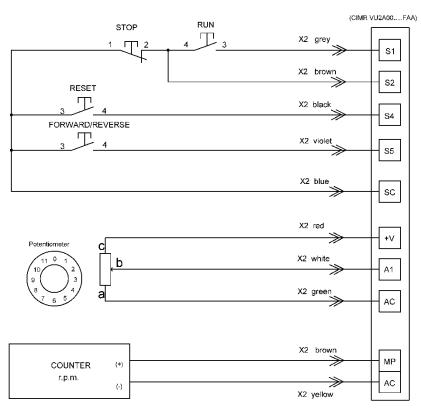
OPERATION	INTERVAL		
	Daily	Every 200 Hrs.	Every 400 Hrs.
Inspect power cords, plugs and vacuum hoses, loose bolt or screws.	X		
Check the rubber buffers, elastic element and fixing of the holders	Х		
Inspect and clean the tool plate connections		Х	
Inspect and clean water tank, filters mesh and misting nozzle		Х	х
Inspect the seal rings and bearings of the grinding units		X	
Check the planetary chain and lubricate		Х	Х
Replace Felt-Ring and V-rings			Х
Check belts and bearings			Х

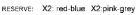
7.10 ELECTRICAL SYSTEM

Dust should not enter the control box, as it will destroy the contacts. Remove (blow out) any dust present

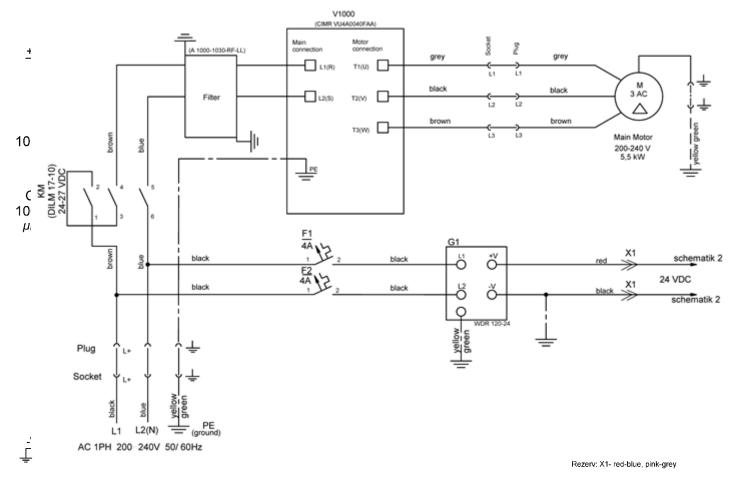
LAVINA® 20NEU ELECTRICAL SCHEMES WITH YASKAWA INVERTER 380-400 VOLT

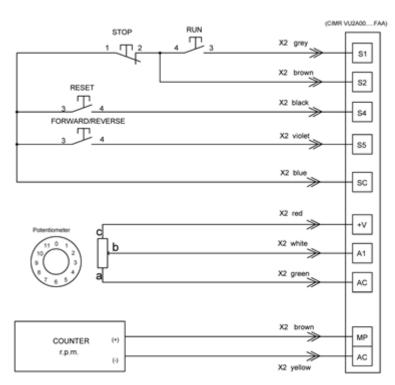




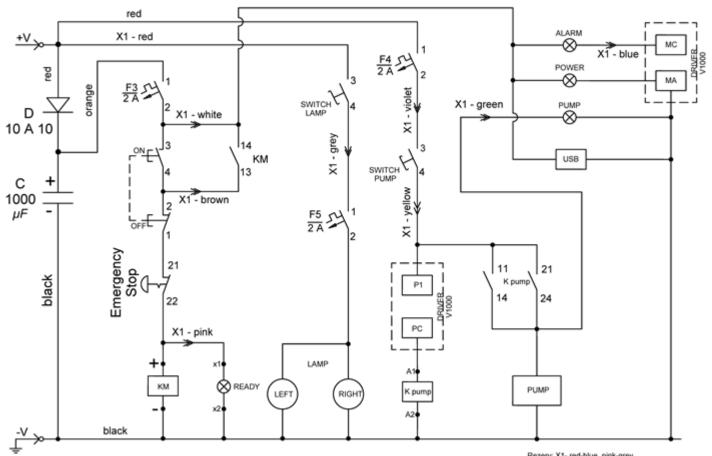


LAVINA® 20NOEU ELECTRICAL SCHEMES WITH YASKAWA INVERTER 2000-240 VOLT





RESERVE: X2: red-blue X2:pink-grey



Rezerv: X1- red-blue, pink-grey

8. TROUBLESHOOTING

8.1 SEPARATING THE HEAD FROM THE CARRIAGE



Figure 8.1

- 1. Unscrew the four bolts to remove the panel fig. 8.2-1.
- 2. Disconnect the flexible hose under the panel fig. 8.2-2. All water connections in the machines are with fitting types "Push-in" and "Release button".
- 3. Disconnect the cable of lamp and remove the lamp fig. 8.2-3.
- 4. Unscrew the four bolts to remove the cover fig. 8.2-4.
- 5. Disconnect the flexible hose which comes from the pump fig. 8.2-5.
- 6. Disconnect the engine cable from the power box fig. 8.2-6.
- 7. Release the clamp and remove the suction hose from the head fig. 8.2-7.
- 8. Make sure everything is disconnected fig. 8.2-8.
- 9. For separating the carriage from the head you need to be two people one to hold the carriage while the other removes the pins fig 8.2-9. After the pins are removed the person which is holding the carriage should carefully place it on the ground without harming it fig. 8.1.

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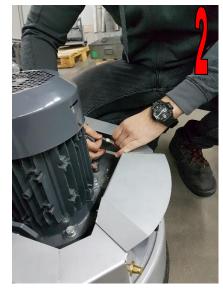












Figure 8.2

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8.2 DISMOUNTING/MOUNTING THE GUARD

You can dismount and mount the safe guard without separating the carriage from the main head. Put the machine in position to change the tools. Unscrew the four bolts M5 from the metal cover preventing the safe guard to fall. Dismount one of the three holders. Dismount the safe guard.

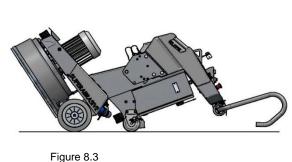




Figure 8.4

8.3 REPLACING POWER CORD AND PLUGS

When replacing the power cord or plugs,

always use cords and plugs with specifications as the original ones. Never use lower quality or different type cord and plugs. In addition, take into consideration the distance of the appliance from the electrical source. The greater the distance, the greater the resistance and the less current that will be available at the other end; there will be a voltage drop and the inverter will sign alarm mode. This can also happen if several machines are working on the same line or when the generator is underrated. In general our standard power cable can be doubled in length; if longer lengths are needed you have to replace all the cables with bigger gage rated cables for the length and amperage.

8.4 DISMOUNTING TOOL HOLDER TO CHANGE V-RINGS AND FELT-RINGS

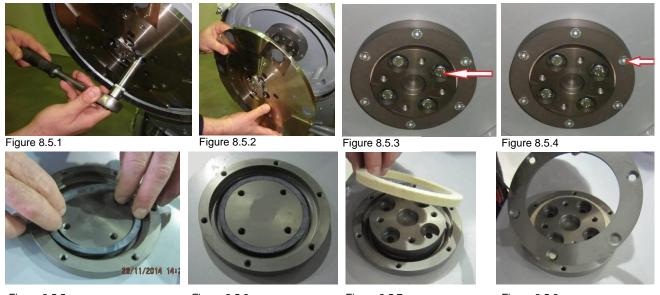


Figure 8.5.5

Figure 8.5.6

Figure 8.5.7

Figure 8.5.8

To check or replace the buffers and the elastic elements, the tool holders have to be dismounted. You will need a 13mm deep metric socket with an outside diameter of no more than 3/4in to unscrew the four bolts (Fig.8.5.1) and remove the holder (Fig.8.5.2) When the tool holder is dismounted, you can change the sealers (V-Ring and Felt-Ring). By loosening four Hex cap flange bolts (Fig.8.5.3) the adaptor comes loose. Unscrew the six screws of the cap (Fig.8.5.4) holding the felt-ring. Take out the Felt-Ring, adaptor and V-Ring.

Mount the V-Ring with the smallest lip of the V to the inside (Fig.8.5.5) - simply push the V-Ring so the top is on the same level as the pulley top (Fig.8.5.6). Then take the adaptor and push the V-Ring down with the adaptor (Fig.8.5.7). The lowest lip of the V-Ring should only barely touch its gliding surface. Mount the adaptor and the Felt-Ring on top (Fig.8.5.7). Close the sealers with the cap (Fig.8.5.8) and screw the bolts. Always use the original bolts. Do not push the V-ring down with fingers.

8.5 DISASSEMBLING AND MOUNTING TOOL HOLDER TO CHANGE BUFFERS AND ELASTIC ELEMENT

When the TOOL HOLDER is disassembled you can change defective parts – elastic element, buffers, etc.

Lift the locking pin (Fig.8.6.1) to dismount the retaining washer (Fig.8.6.2). Take out the screws on the buffers and the nuts of the elastic element (Fig.8.6.3;Fig.8.6.4). Remove the elastic element from the QC plate (Fig.8.6.5). While the holder is dismounted (Fig.8.6.6;Fig.8.6.7) clean the parts and replace the defective with new ones. Assemble the holder with new buffers with new screws and new elastic element. Put the retaining washer (Fig.8.6.8) and push the locking pin (Fig.8.6.9). This will prevent the fall of the washer when mounting the holder on the machine.

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Figure 8.6.1



Figure 8.6.4



Figure 8.6.7



Figure 8.6.2



Figure 8.6.5



Figure 8.6.8

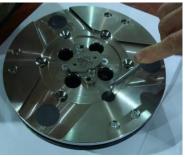


Figure 8.6.3



Figure 8.6.6



Figure 8.6.9

Make sure the four bolts holding the adaptor (Fig.8.7.3) are reliably tightened. Mount the holder on the machine using the same socket as in 8.4 (Fig.8.7.1;Fig.8.7.2). The retaining washer fits into the central hole C of adaptor and the four bolts into the thread holes T (Fig.8.7.3). The holder is centered on the outside diameter of the adaptor. Ensure the holder is properly connected to the plate of the adaptor and then tight evenly the four bolts. Tightening force on the bolts has to be 22...25N.m(16...18 lbf.ft). Mounting the holder without the retaining washer (Fig.8.6.2) is INADMISSIBLE because the security system preventing the separation of part of the holder in case of broken buffers and elastic element will not function!

You can change the butterfly of the holder without dismounting the holder from the machine.

Fig.8.7.4 is 3-D section view of the holder, showing its parts. The numbering is the same as in Spare parts.







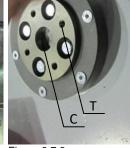
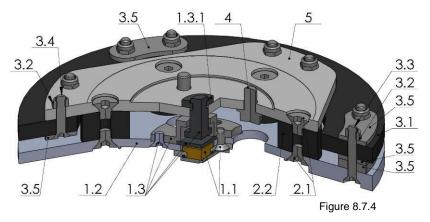


Figure 8.7.3



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8.6 CORRECTING DEFLECTION OF THE USED PLANETARY CHAIN

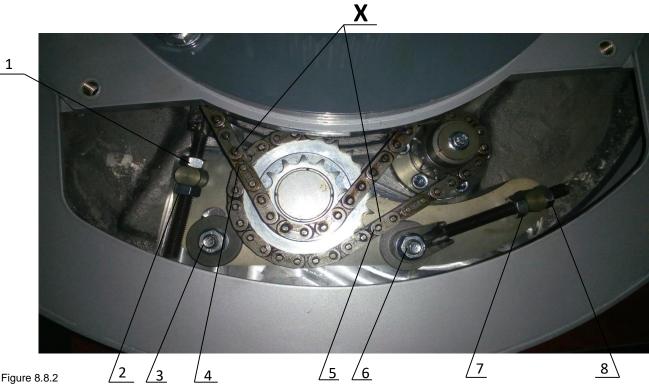


Figure 8.8.1

Unscrew the two bolts (Fig.8.8.1) and take out the cover. Lift the machine in position to change the tools. Turn manually the holders in order to turn the main head, stop when you see through the window the chain tensioner (Fig.8.8.2).

Loosen a quarter to 1/2 rev the two nuts of the chain tensioner pos.3 (Fig.8.8.2) and pos.6 (Fig.8.8.2) the tensioner should turn with minimum clearence, without inclination, then unscrew the nuts pos.2 (Fig.8.8.2) and pos.7(Fig.8.8.2). To tension the chain pos.4 screw the nut pos.1 (Fig.8.8.2). To tension the chain pos.5 screw the nut pos.8 (Fig.8.8.2). The tensioner of the planetary chain should allow chain sagging 3...5mm/1/8...3/16 in/ controlled in span X on two chain Fig.8.8.2). When ready screw the two nuts pos.3 and pos.6 (Fig.8.8.2) and the nuts pos.2 and pos.7 (Fig.8.8.2).

ATTENTION: NEVER "OVER" TENSION THE CHAIN, THE CHAIN WILL BE DAMAGED



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8.7 MOUNTING NEW PLANETARY CHAIN

The planetary chains are replaced with new ones when the step/drive of the chain tensioner is finished or there is a break in the integrity of the chain. Remove the guard as shown on **8.2 DISMOUNTING/MOUNTING THE GUARD.**

Unscrew the two bolts (Fig.8.8.1) and take out the cover. Lift the machine in position to change the tools. Turn manually the holders in order to turn the main head, stop when you see through the window the chain tensioner (Fig.8.8.2). Then separate the carriage from the main head as shown on **8.1 SEPARATING THE HEAD FROM THE CARRIAGE**. Lift the metal cover as shown on (Fig.8.9.1 and Fig.8.9.2) Loosen a quarter to 1/2 rev the two nuts of the chain tensioner pos.3 (Fig.8.8.2) and pos.6 (Fig.8.8.2) the tensioner should turn with minimum clearance, without Inclination. Then unscrew the nuts pos.2 (Fig.8.8.2) and

pos.7 (Fig.8.8.2), as well as the nuts in pos. 1 and pos.8 to have possibility to dismount the two old chains.



Figure 8.9.1

Figure 8.9.2

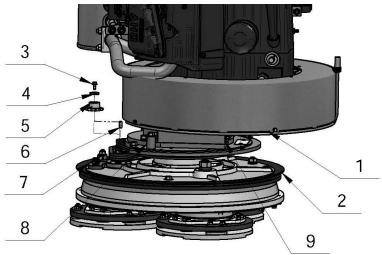
Mount the new chains (Fig.8.9.3 - Fig.8.9.6), using the the chain link pin and the split pin. First tighten the longer chain (Fig.8.9.7; Fig.8.9.8) then the second one (Fig.8.9.9; Fig.8.9.10). The tensioner of the planetary chain should allow chain sagging 3...5mm/1/8...3/16 in/ controlled in span X (Fig.8.8.2). Be sure to tighten the locking nuts (Fig.8.9.11; Fig.8.9.12; Fig.8.9.13; Fig.8.9.14).



ATTENTION: NEVER "OVER" TENSION THE CHAIN, THE CHAIN WILL BE DAMAGED

ATTENTION: BE VERY CAREFULL PLACING BACK THE METAL COVER, NOT TO DAMAGE THE RUBBER V RING. IT SERVES TO PROTECT THE PLANETARY CHAINS FROM THE DUST AND MOISTURE. PUT THE METAL COVER WITH DOWNWARD MOVEMENT FOLLOWING THE TWO CONDUCTORS POS.8 (Fig.8.9.1) AND THE EDGES POS. 9 (Fig.8.9.1) OF THE PROPANE MOTOR CARRIER.

8.8 REPLACING THE PLANETARY DRIVING CHAIN WHEEL AND PLANETARY TENSIONER



Check and repeat the instruction in 8.7 MONTING NEW PLANETARY CHAIN.

Unscrew bolt pos.3 take the chain pulley pos.5. Apply lithium grease on the shaft and mount back the wheel and the front washer pos.4 as shown on (Fig.8.10.1). Screw the bolt by using always the "blue" thread locking adhesive. Tightening force of the bolts has to be 22...25N.m (16...18 ft/lbs).

Figure 8.10.1

8.9 REPLACING PULLEY UNITS



Figure 8.11.2



Figure 8.11.3

See previous chapters to take of the tool holders and top cover. Unscrew the screws of the bottom cover (Fig. 8.11.1). Set the bottom cover assembly aside (Fig.8.11.2).Remove the O-rings to avoid losing them (Fig.8.11.3).



Figure 8.11.4

Figure 8.11.1



Figure 8.11.5



Figure 8.11.6

Only the two loose (non-driving) pulleys can be remove without removing on top the motor base disc and motor. Loose the nut on top of the pulley (Fig.8.11.4). Carefully pull out the unit with crowbars, but do not use excessive force (Fig.8.11.5) (Fig.8.11.6).

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Figure 8.11.7

Figure 8.11.8



Figure 8.11.9

If all the pulley units have to be replaced, dismount motor base disc and motor. Before removing the belt unscrew the central pulley (so it does not turn while unlocking) (Fig.8.11.7) (Fig.8.11.8). Pull the central pulley off (Fig.8.11.9).



Figure 8.11.10



Figure 8.11.13



Figure 8.11.16



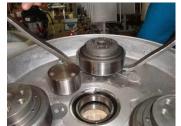


Figure 8.11.22





Figure 8.11.14







Figure 8.11.23



Figure 8.11.12



Figure8.11.15





Figure 8.11.21



Figure 8.11.24

Unscrew bolts (Fig.8.11.10) and take more off (Fig.8.11.11). Unlock retaining shaft/bearing (Fig.8.11.12). Take away the filling ring (Fig.8.11.13). Now the motor base disc is unlocked, the only way to dismount it is to press it out on a bearing press (Fig.8.11.14) (Fig.8.11.15). Dismounting the driving pulley: take the top screw out to release the bushing (Fig.8.11.16), push the bushing together with the washer up (Fig.8.11.17), push washer down of the bushing., take bushing out (Fig.8.11.18),

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push key out (Fig.8.11.19), now the washer releases (Fig.8.11.20), dismount sealer cap (Fig.8.11.21), the pulley can be released with two crowbars; do not use excessive force (Fig.8.11.22) (Fig.8.11.23), push the sealer cap to dismount (Fig.8.11.24), by mounting back the sealer cap, secure with sealant, center the holes to mount the pulley. Change the two other pulleys as earlier described in the chapter, best when the motor base disc is dismount to change the



Figure 8.11.25



Figure 8.11.26



Figure 8.11.27

roller units too. Unlock the nut on top (Fig.8.11.25). The pulleys can be released with two crowbars; do not use excessive force (Fig.8.11.26) (Fig.8.11.27).

8.10 MOUNTING THE BELT







Figure 8.12.3



Figure 8.12.4



Figure 8.12.5



Figure 8.12.6

Figure 8.12.1





Figure 8.12.8



Figure 8.12.9



Figure 8.12.10

The mounting of the belt is shown on Fig. 8.12.11. Putting the belt is possible when the tensioner is in starting position:

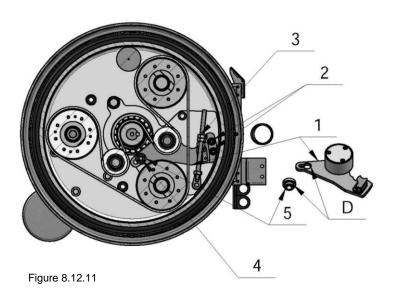
- loosen the nuts pos.2

- loosen enough the nuts pos.3 (or unscrew them).

- unscrew the nut (pos.4) and pull out the bush (pos.5) from hole D in the tensioner (pos.1), that will allow the tensioner to have the position in Fig. 8.12.11.

- put the belt following steps shown on Fig. 8.12.2; Fig. 8.12.3 and Fig. 8.12.4. (It is possible also to put the belt on the roller unit assembly as a last step.) Check if the belt is on the right place in the grooves of each of the pulley units and on the central pulley.

Put back the tensioner in a position the axle bushing to fit in the tensioner hole (Fig. 8.12.5) (You



can push down the bush screwing the nut pos.4)

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Tighten the nuts (pos.2, Fig. 8.12.11) and loosen them again a half of turnover. This will allow the tensioner turn in minimum clearance. Rotate the tensioner into the lightening direction so you can mount the belt. After the belt is mounted you need to tension it by using Optikrik II device (Measuring range: 500-1400 N) (Fig. . . 8.13.2). For a new belt the tensioning force is 650N. The tension of the existing belt must be 520 N.

ATTENTION: NEVER "OVER" TENSION THE BELT, THE BELT WILL BE DAMAGED AND IT WILL NEVER RECOVER ITS ORIGINAL TENSION

Tighten the two nuts on the sectors and contra nut on the tensioner (Fig. 8.12.9). Put the seal ring on the bottom cover and close the machine (Fig. 8.12.11).

Reassemble in the same manner.

Your LAVINA[®] ELITE machine is now ready for use!

8.11 CHECKING THE TENSION OF THE BELT









Figure 8.13.1

Figure 8.13.2

Figure 8.13.3

Figure 8.13.4

Open the checking cover to reach the belt and tension device (Fig.8.13.1). You should rotate the whole system by hand and check the tensioning several times to ensure its equal in all the regions of the belt. It is recommended that the tensioning of the belt be measured with Optikrik II Device (Measuring range: 500 -1400 N) (Fig.8.13.2). The tension of the existing belt must be 520 N.

ATTENTION:

NEVER "OVER" TENSION THE BELT, THE BELT WILL BE DESTROYED AND IT WILL NEVER RECOVER ITS ORIGINAL TENSION Loose the contra nuts (Fig.8.13.3), loose light the two nuts of the tension device (Fig.8.13.4), and adjust the tension with the nut seen in. When the right tension is reached: close the contra nuts and the two nuts of the support. Reassemble in the same manner.

PLEASE MAKE SURE YOU CHECK THE TENSION OF THE BELT AFTER THE FIRST 15 HOURS OF OPERATION.

9. DISPOSAL

If your machine after time is not usable or needs to be replaced, send the machine back to Superabrasive or a local distributor, where a professional disposal complying with the environment laws and directives is guaranteed.

10. MANUFACTURER'S CONTACTS

If you need to contact Superabrasive Inc. with technical support questions, below is the contact information. Address: 9411 Jackson Trail Road, Hoshton GA 30548, USA

 Address.
 9411 Jackson framkoad

 Email:
 info@superabrasive.us

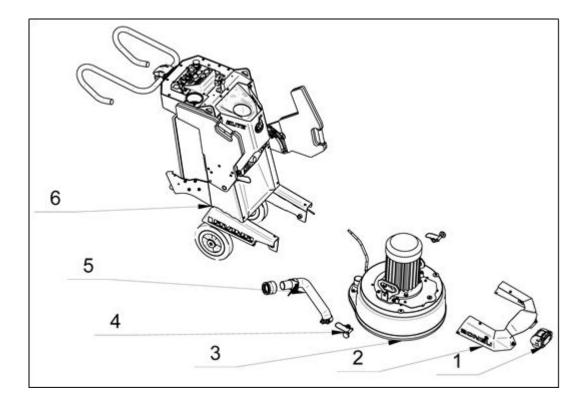
 Tel.:
 706 658 1122

 Fax:
 706 658 0357

11. SPARE PARTS

ASSEMBLY AND PARTS SPECIFICATIONS

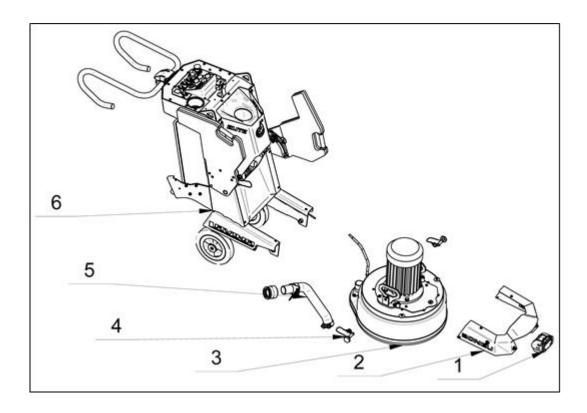
11.1 GENERAL PARTS



11.1 LAVINA® 20NEU GENERAL PARTS			
No.	Item No.	Description	Pcs.
1	A50.00.00.00	LED light with magnetic base	1
2	L20NEU01.00.00	Bumper	1
3	L20NE10.00.00-2	Main Head	1
4	L25SPS-07.03.00.00	Pin Assembly	2
5	L20GX-02.00.00	Vacuum hose	1
6	L20NEU20.00.00-2	Carriage	1

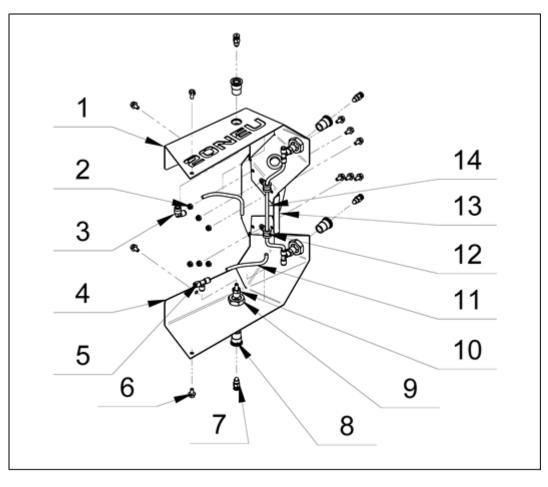
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11.2 GENERAL PARTS



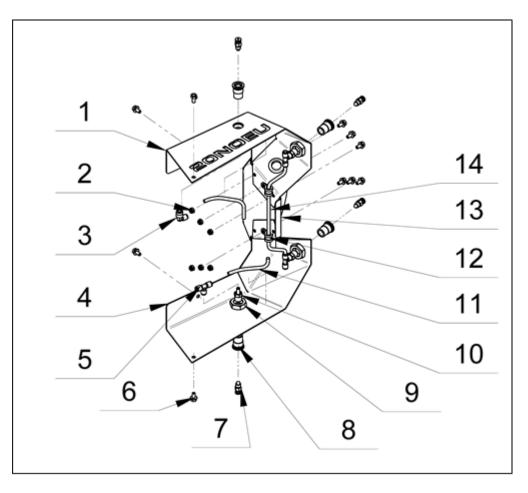
11.2 LAVINA [®] 20NOEU GENERAL PARTS			
No.	Item No.	Description	Pcs.
1	A50.00.00.00	LED light with magnetic base	1
2	L20NOEU01.00.00	Bumper	1
3	L20NE10.00.00-2	Main Head	1
4	L25SPS-07.03.00.00	Pin Assembly	2
5	L20GX-02.00.00	Vacuum hose	1
6	L20NOEU20.00.00-2	Carriage	1

11.3 BUMPER LAVINA 20NEU



11.3 LA	VINA [®] 20NEU BUMPE	R	
No.	Item No.	Description	Pcs.
1	L20NEU01.00.01-K	Bumper right part	1
2	30301240103	Nut M6DIN985	6
3	30313000348	FIXED ELBOW - 1/4 INC - NPT1/4	1
4	L20GE01.00.02	Bumper left part	1
5	30313000343	EQUAL TEE - 1/4 INC - 1/4 INC	3
6	30301210048	Bolt M6X12DIN6921	10
7	30313000064	Misting nozzle	4
8	L20GX-01.10.02	Insert for Misting nozzle	4
9	30301240015	Nut M20x1.5DIN439-B	4
10	30313000344	Adapter 1/4 INC - NPT1/4	3
11	025x130	PE Tube	2
12	30308000412	Clamp	2
13	L20GX-01.00.03	Bumper middle part	1
14	025x280	PE Tube	1

11.4 BUMPER LAVINA 20NOEU



	1		
No.	Item No.	Description	Pcs.
1	L20NOEU01.00.01-K	Bumper right part	1
2	30301240103	Nut M6DIN985	6
3	30313000348	FIXED ELBOW - 1/4 INC - NPT1/4	1
4	L20GE01.00.02	Bumper left part	1
5	30313000343	EQUAL TEE - 1/4 INC - 1/4 INC	3
6	30301210048	Bolt M6X12DIN6921	10
7	30313000064	Misting nozzle	4
8	L20GX-01.10.02	Insert for Misting nozzle	4
9	30301240015	Nut M20x1.5DIN439-B	4
10	30313000344	Adapter 1/4 INC - NPT1/4	3
11	025x130	PE Tube	2
12	30308000412	Clamp	2
13	L20GX-01.00.03	Bumper middle part	1
14	025x280	PE Tube	1

User Manual

11.5 VACUUM HOSE

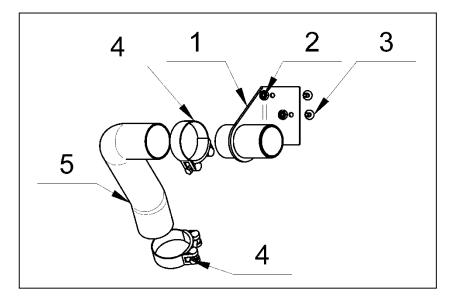


Figure 11.5

11.5 LAVINA® 20NEU/20NOEU VACUUM HOSE			
No.	Item No.	Description	Pcs.
1	L20GX-02.10.00	Vacuum Port	1
2	30301210051	Bolt M6x16DIN6921	2
3	30301240098	Flange Nut M6DIN6923	2
4	30308000400	Clamp for Vacuum Hose	1
5	D50L470PU	Soft Vacuum Hose	1

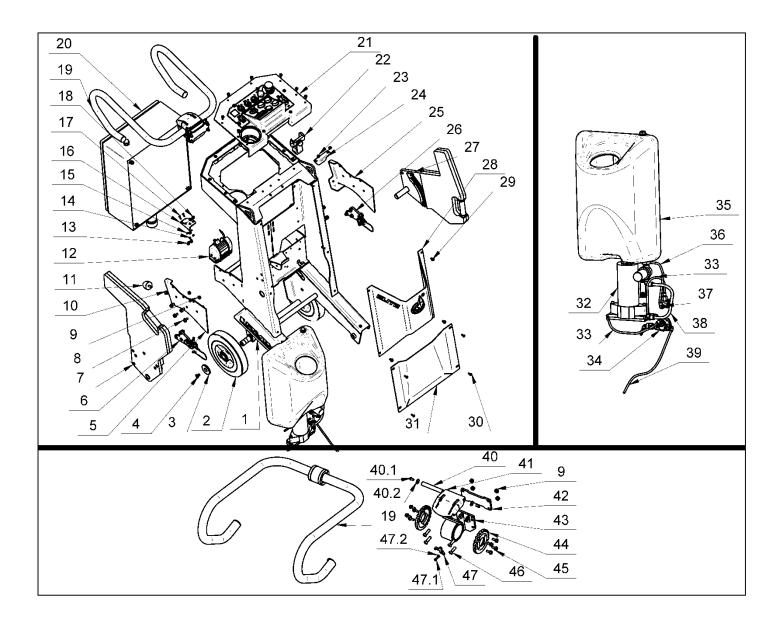
User Manual

Original Language

Lavina[®] 20NEU/20NOEU

8/2020

11.6 CARRIAGE LAVINA 20NEU



Superabrasive

User Manual

Original Language

Lavina® 20NEU/20NOEU

8/2020

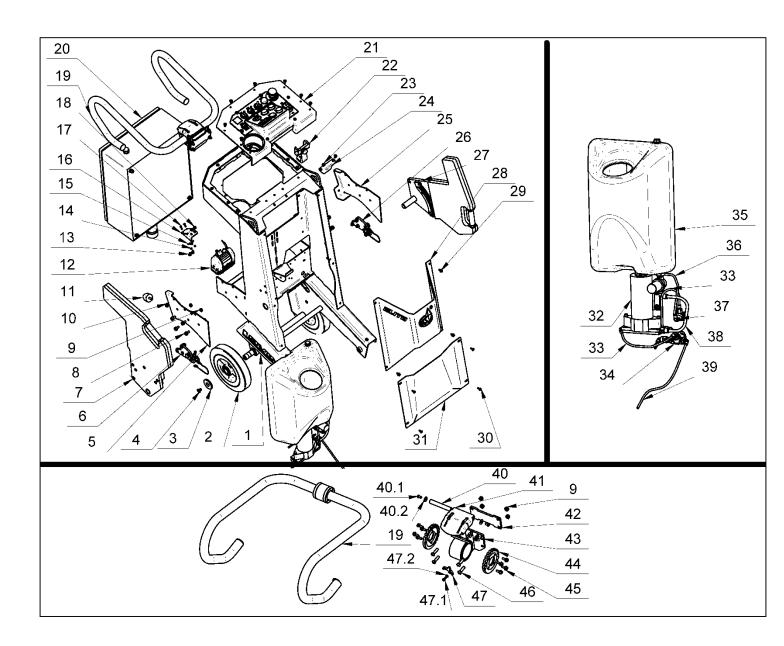
No.	Item No.	Description	Pcs.	No.	ltem No.	Description	Pcs.
1	L20E21.00.00-K	Frame	1	27	L20GX-20.20.00	Left Weight	1
2	30312000043	Wheel	2	27*	L25E20.20.00	Left Weight	1
3	L25X-20.00.03-1	Wheel cap	2	28	L25E20.50.00	Front panel assembly	1
4	30301230015	Screw	2	29	30301210051	Bolt M6x16DIN6921	4
5	L20GX-20.00.21- 2	Support right	1	30	30301230251	Screw M5x16ISO7380F/10.9/	4
6	L20GX-20.30.00	Right Weight Support	1	31	L20E20.00.03	Front cover	1
7	L20GX-20.10.00	Right Weight	1	32	A60.00.00.00	Water pump assembly	1
7*	L25E20.10.00	Right Weight	1	33	025X300	PE Tube	2
8	30301210072	Bolt M8x16DIN6921	8	34	A47.00.00.00	Water Valve assembly	1
9	30301240106	Nut M8DIN985	2	34***	A47.00.00.00-1	Water Valve assembly	1
10	30301240106	Nut M8DIN985	2	35	A62.00.00.00	Tank Assembly	1
11	L25E20.60.00	Wheel Assembly	2	36	025X730	PE Tube	1
11**	L25E20.60.00-K	Wheel Set	1	37	A49.00.00.00	Regulator for water pump	1
12	30311000749	LED Light	1	38	038X500	PE Tube	1
13	30301230262	Screw	2	39	025X550	PE Tube	1
14	30301240114	Nut M4DIN 985	2	40	L20GX-23.00.02-	Pin	1
15	30311000818	Cable clamp	1	40.1	30301230250	Screw M6x12ISO7380-1/10.9/	2
16	L20E20.00.06	Cable holding plate	1	40.2	30301221012	Washer M6DIN9021	2
17	30301230066	Screw M4x12DIN 967	2	41	L20GX-23.20.00	Handle locking bit	1
18	30301240098	Nut M6DIN6923	2	42	L20GX-23.00.03	Handle support plate	1
19	L20GX-23.10.00	Handle assembly	1	43	L20GX-23.30.00	Handle support	1
20	L20NEU23.00.00	Control box	1	44	L20GX-23.00.01	End cover	2
21	L20E22.00.00	Control board assembly	1	45	30301210051	Bolt M6x16DIN6921	8
22	30350000044	Phone clip mount	1	46	30301230257	ScrewM8x30DIN7984	4
23	30301230243	Screw	1	47	L20GX-23.00.11-K	Locking lever	1
24	L20E20.10.00	Tank holder plate assembly	1	47.1	30301210109	Bolt M5x14DIN933	1
25	L20GX-20.00.22- 2	Support left	1	47.2	30301221002	Washer M5DIN125A	1
26	L20GX-20.40.00	Left Weight Support	1				

*The changes are for machines after Serial No 2002L20NEU2010

** For machines before Serial No 2002L20NEU2010

*** The changes are for machines with Serial No 2002L20NEU2010 and larger.

11.7 CARRIAGE LAVINA 20NOEU



Original Language

Lavina® 20NEU/20NOEU

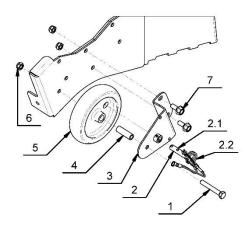
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	AVINA [®] 20NOEU Carriag	e	r	1	1	Γ	T
No.	Item No.	Description	Pcs.	No.	Item No.	Description	Pcs.
1	L20E21.00.00-K	Frame	1	27	L20GX-20.20.00	Left Weight	1
2	30312000043	Wheel	2	27*	L25E20.20.00	Left Weight	1
3	L25X-20.00.03-1	Wheel cap	2	28	L25E20.50.00	Front panel assembly	1
4	30301230015	Screw	2	29	30301210051	Bolt M6x16DIN6921	4
5	L20GX-20.00.21-2	Support right	1	30	30301230251	Screw M5x16ISO7380F/10.9/	4
6	L20GX-20.30.00	Right Weight Support	1	31	L20E20.00.03	Front cover	1
7	L20GX-20.10.00	Right Weight	1	32	A60.00.00.00	Water pump assembly	1
7*	L25E20.10.00	Right Weight	1	33	025X300	PE Tube	2
8	30301210072	Bolt M8x16DIN6921	4	34	A47.00.00.00	Water Valve assembly	1
9	30301240106	Nut M8DIN985	2	34***	A47.00.00.00-1	Water Valve assembly	1
10	30301240106	Nut M8DIN985	2	35	A62.00.00.00	Tank Assembly	1
11	L25E20.60.00	Wheel Assembly	2	36	025X730	PE Tube	1
11**	L25E20.60.00-K	Wheel Set	1	37	A49.00.00.00	Regulator for water pump	1
12	30311000749	LED Light	1	38	038X500	PE Tube	1
13	30301230262	Screw	2	39	025X550	PE Tube	1
14	30301240114	Nut M4DIN 985	2	40	L20GX-23.00.02-1-K	Pin	1
15	30311000818	Cable clamp	1	40.1	30301230250	Screw M6 x12ISO7380-1/10.9/	2
16	L20E20.00.06	Cable holding plate	1	40.2	30301221012	Washer M6DIN9021	2
17	30301230066	Screw M4x12DIN 967	2	41	L20GX-23.20.00	Handle locking bit	1
18	30301240098	Nut M6DIN6923	2	42	L20GX-23.00.03	Handle support plate	1
19	L20GX-23.10.00	Handle assembly	1	43	L20GX-23.30.00	Handle support	1
20	L20NOEU23.00.00	Control box	1	44	L20GX-23.00.01	End cover	2
21	L20E22.00.00	Control board assembly	1	45	30301210051	Bolt M6x16DIN6921	8
22	30350000044	Phone clip mount	1	46	30301230257	ScrewM8x30DIN7984	4
23	30301230243	Screw	1	47	L20GX-23.00.11-K	Locking lever	1
24	L20E20.10.00	Tank holder plate	1	47.1	30301210109	Bolt M5x14DIN933	1
25	L20GX-20.00.22-2	Support left	1	47.2	30301221002	Washer M5DIN125A	1
26	L20GX-20.40.00	Left Weight Support	1				1

*The changes are for machines after Serial №2002L20NOEU1306

** For machines before Serial No 2002L20NOEU1306

*** The changes are for machines with Serial No 2002L20NOEU1306 and larger.

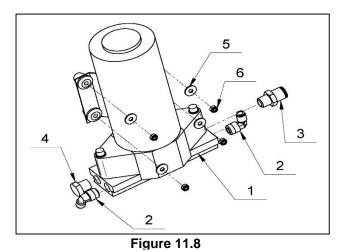


WHE	11.7.1. LAVINA [®] 20NEU/20NOEU WHEEL ASSEMBLY								
Item	No. L2	25E20.60.00							
N	No. Item No. Description Pcs.								
1		30301210005	Bolt M8X55DIN933	1					
2		L25E20.62.00	Pin Assembly	1					
	2.1	L25E20.62.02	Pin	1					
	2.2	L25E20.62.00-K	Accessories	1					
3		L25E20.61.00	Housings	1					
4	4 L25E20.60.03 Bushing 1								
5		L25E20.60.01	Wheel	1					

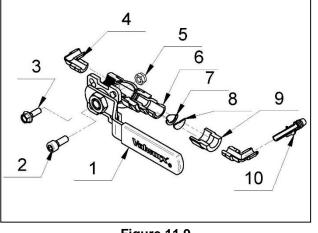
Original Language

11.8 WATER PUMP

11.8 LA	11.8 LAVINA® 20NEU/20NOEU WATER PUMP							
No.	No. Item No. Description							
1	30326000002	Pump 113C/M8234	1					
2	30313000348	Fixed Elbow NPT Thread	2					
3	30313000341	Stud Fitting	1					
4	30313000056	Male Hex Plug	1					
5	30301221015	Washer M5DIN9021	4					
6	30301240090	Nut M5DIN985	4					



11.9 WATER BALL VALVE



Fiaure 11.9

11.9 LAVINA® 20NEU/20NOEU WATER BALL VALVE							
No.	Item No.	Description	Pcs.				
1	30316000066	Ball valve	1				
2	30301230098	Screw M6x16DIN912	1				
3	30301210110	Bolt M5x16DIN6921	1				
4	30313000348	Fixed Elbow NPT Thread	3				
5	30301240103	Nut M6DIN985	1				
6	30313000057	UNIJET Body	1				
7	30313000058	TEEJET Cup Strainer	1				
8	A47.00.00.01	Orifice Plate	1				
9	30313000060	UNIJET ADAPTER	1				
10	30313000339	Tube To Hose Stem	1				

	11.6.1. LAVINA [®] 20NEU/20NOEU WATER BALL VALVE - A47.00.00.00-1						
No.	Item No.	Description	Pcs.				
1	30316000066	BALL VALVE	1				
2	30301230098	SCREW M6X16DIN 912	1				
3	30301210110	BOLT M5X16DIN6921	1				
4	30313000348	FIXED ELBOW NPT THREAD	3				
5	30301240103	NUT M6DIN985	1				
6	30313000339	TUBE TO HOSE STEM	1				

11.10 WATER PUMP REGULATOR

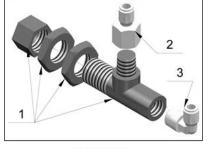
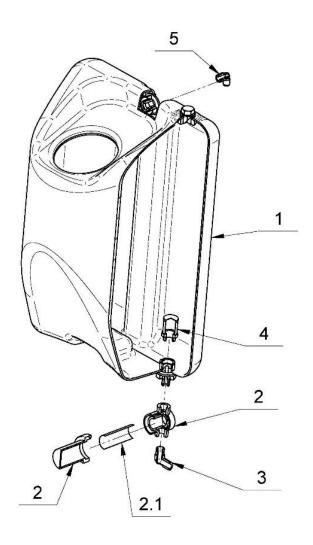


Figure 11.7

11.10 LAVINA® 20NEU/20NOEU WATER PUMP REGULATOR						
No.	Item No.	Description Pcs.				
1	30313000055	Water Pump Regulator	1			
2	30313000349	FEMALE STUD FITTING	1			
2 30313000348 Fixed Elbow NPT Thread						

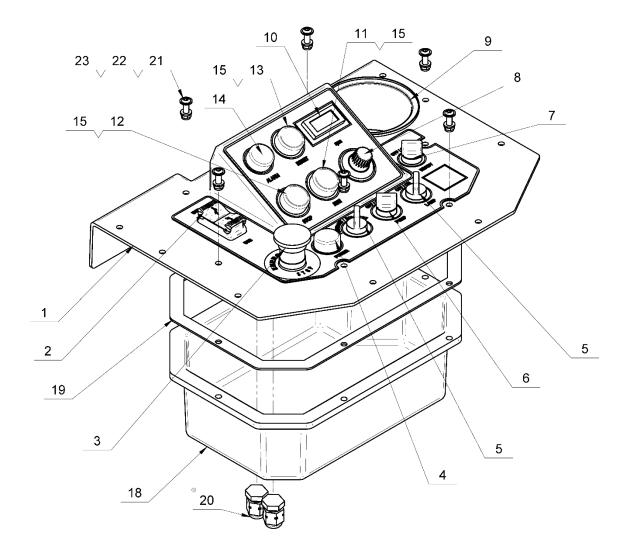
11.11 WATER TANK



11.11	11.11 LAVINA® 20NEU/20NOEU WATER TANK							
No. Item No.		Description	Pcs.					
1	A62.00.00.01-K	Water Tank-K	1					
2	30323000209	Filter_LP 1/4 FNPT GFPP CB 80X80 SST CG BN	1					
2.1	30313000077	Filter						
3	30313000342	Fixed Elbow Male NPTF Thread -3/8 INC- NPT1/4	1					
4	30313000342	Filter	1					
5	30313000348	Fixed Elbow NPT Thread	1					

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11.12 CONTROL BOARD ASSEMBLY



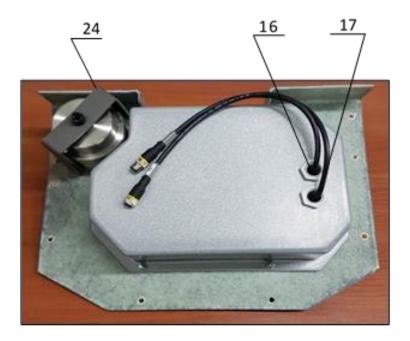


Figure 11.12

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11.1	2 CONTROL BOAR	D ASSEMBLY					
No.	Item No.	Description	Pcs.	No.	ltem No.	Description	Pcs.
1	L20E22.10.00	Control board assembly kit	1	13	30311000703	Button	1
2	30313000173	USB charger	1	14	30311000741	Glowing button	1
3	30311000717	EMG Button	1	15	30311000750	Сар	1
4	30311000740	Power glowing button	1	16	L20E22.21.00	Cable X1	1
5	30311000721	Switch	2	17	L20E22.22.00	Cable X2	1
6	30311000731-К	Switch	1	18	L25E22.00.02	Вох	1
7	30311000732-К	Switch	1	19	30302000145	Seal	1
8	30311000690	Potentiometer	1	20	L20NS-30.10.01	Shtutser	2
9	30350000045	Cup holder	1	21	30301230264	Screw	6
10	30313000150	Tachometer	1	22	30301221003	Washer M6DIN125	6
11	30311000701	Button	1	23	30301240103	Nut M6DIN985	6
12	30311000700	Button	1	24	L20GX-40.20.03	Clamp	

11.13 CONTROL BOX PARTS LAVINA 20NEU 380-400V

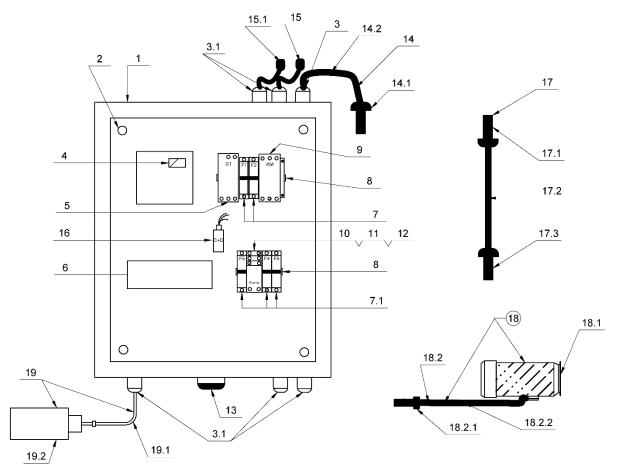


Figure 11.13

11.13	3 LAVINA 20 NEU	CONTROL BOX PARTS	380-4	00 V			
No.	ltem No.	Description	Pcs.	No.	ltem No.	Description	Pcs.
1	L20E23.40.03	Metal Box/only/	1	14.2	L20NEU23.20.01	Cable	1
2	L20NE23.40.01	Metal Box Plate	1	15	L20E22.21.00	Cable X1	1
3	30311000403	Cable Gland 20x1,5	1	15.1	L20E22.22.00	Cable X2	1
3.1	30311000401	Cable Gland 16x1,5	5	16	L20E23.41.00	Voltage Stabilizer	1
4	30313000110	Inverter Yaskawa (V 1000)	1	17	L25XE-30.02.00	Cable with Conector and Plug	1
5	30313000190	Power supply	1	17.1	30311000050	Conector	1
6	30323000102	Filter A1000-FIV3020	1	17.2	L20NSE-30.02.02	Cable	1
7	30311000600	Circuit Breaker - 4 A	2	17.3	30311000147	Plug	1
7.1	30311000612	Circuit Breaker - 2 A	3	18	L20NHVS-30.20.00	Electro Motor Assembly	1
8	L20E23.40.02	Rail	2	18.1	S203	Electro Motor	1
9	30311000190	Contactor	1	18.2	L20NEU23.10.00	Cable for Electro Motor	1
10	30311000511	Relay Base	1	18.2.1	30311000051	Plug	1
11	30311000512	Relay	1	18.2.2	L20E23.10.01	Cable Electro Motor	1
12	30311000524	Diode Relay	1	19	L20E23.60.00	Water Pump with Cable	1
13	30311000052	Socket	1	19.1	L20E23.60.10	Cable	1
14	L20NEU23.20.00	Cable on Control Board	1	19.2	30326000002	Water Pump	1
14.1	30311000192	Plug on Control Board	1	20	30311000187	Terminal	1

11.14 CONTROL BOX PARTS LAVINA 20NOEU 200-240V

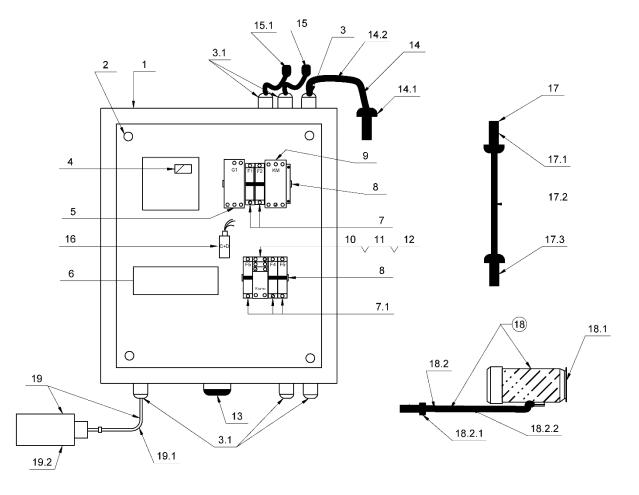
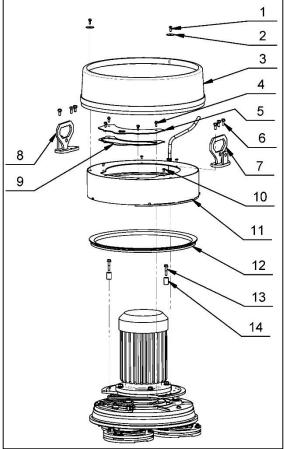


Figure 11.14

11.14	LAVINA 20NO	EU CONTROL BOX PART	S 200	-240 V			
No.	ltem No.	Description	Pcs.	No.	Item No.	Description	Pcs.
1	L20E23.40.03	Metal Box/only/	1	14.2	L20E23.20.01	Cable	1
2	L20NE23.40.01	Metal Box Plate	1	15	L20E22.21.00	Cable X1	1
3	30311000403	Cable Gland 20x1,5	1	15.1	L20E22.22.00	Cable X2	1
3.1	30311000401	Cable Gland 16x1,5	5	16	L20E23.41.00	Voltage Stabilizer	1
4	30313000101	Inverter Yaskawa (V 1000)	1	17	L20XE-30.02.00	Cable with Conector and	1
5	30313000190	Power supply	1	17.1	30311000040	Conector	1
6	30323000101	Filter A1000-FIV1030	1	17.2	L20S-30.02.02	Cable	1
7	30311000600	Circuit Breaker - 4 A	2	17.3	30311000145	Plug	1
7.1	30311000612	Circuit Breaker - 2 A	3	18	L20NOEU.23.50.00	Electro Motor Assembly	1
8	L20E23.40.02	Rail	2	18.1	S203	Electro Motor	1
9	30311000190	Contactor	1	18.2	L20E23.10.00	Cable for Electro Motor	1
10	30311000511	Relay Base	1	18.2.1	30311000042	Plug	1
11	30311000512	Relay	1	18.2.2	L20E23.10.01	Cable Electro Motor	1
12	30311000524	Diode Relay	1	19	L20E23.60.00	Water Pump with Cable	1
13	30311000041	Socket	1	19.1	L20E23.60.10	Cable	1
14	L20E23.20.00	Cable on Control Board	1	19.2	30326000002	Water Pump	1
14.1	30311000193	Plug on Control Board	1				

11.15 TOP COVER PARTS 1



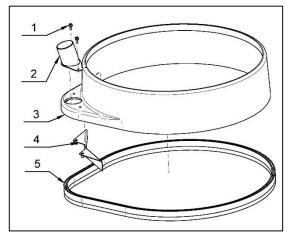
11.15 LAVINA[®] 20NEU/20NOEU Top Cover 1 parts Item No. Description No. Pcs. 1 30301210051 Bolt M6x16DIN6921 2 2 30301221022 Washer D35x1.4 2 3 L20E10.70.00 Guard Assembly 1 4 30301210058 Bolt M8X12DIN6921 2 4* Bolt M6X16DIN6921 30301210051 4 5 L20E19.20.00 Inspection cover 1 5* L20E19.20.00-1 Inspection cover 1 6 30301210031 Bolt M8X20DIN6921 6 7 L20E18.10.00-1 Left fork 1 L20E18.20.00-1 8 Right fork 8 Sealer Inspection 9** L20E10.00.62 1 Cover Screw 10 30301230021 4 M6X10ISO7380F/10.9/ L20GX-19.00.00 11 Top cover assembly 1 11* L20GE19.00.00 Top cover assembly 1 30302000044 V-ring TWVA04500 12 1 13 30301210092 Bolt M8X40DIN6921 2 2 L20GX-15.00.29 Bushing 14

Figure 11.15

*The changes are for machines with Serial No 1903L20NOEU1904 and bigger.

**The changes are for machines with Serial

No2002L20NEU2001 and bigger.

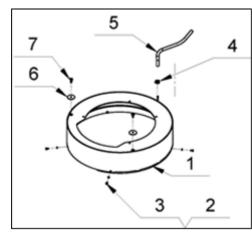


11.16 GUARD ASSEMBLY

Figure 11.16

11.16	11.16 LAVINA [®] 20NEU/20NOEU Guard Assembly							
No.	Item No.	Description	Pcs.					
1	30301210117	Bolt M6x20DIN6921	2					
2	L20E10.72.00	Vacuum Port	1					
3	L20GX-05.00.01	Guard	1					
4	L20E10.71.00	Bottom Vacuum Port	1					
5	FBL1350-1795	Brush	1					

11.17 TOP COVER ASSEMBLY



11.17 LAVINA [®] 20NEU/20NOEU TOP COVER Assembly					
No.	Item No.	Description	Pcs.		
1	L20GE19.10.00	Top Cover	1		
2	30301220001	Spring Washer M5DIN127	4		
3	30301210007	Bolt M5X10DIN933	4		
4	30308000419	Clamp	1		
5	L20GX-19.00.05	Tube	1		
6	30301221022	Washer D35x1.4	2		
7	30301210051	Bolt M6X16DIN6921	2		

Figure 11.17

11.18 BOTTOM COVER 1 PARTS

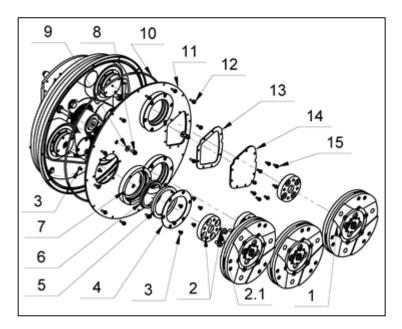


Figure 11.18

	11.18 LAVINA [®] 20NEU/20NOEU BOTTOM COVER 1 PARTS					
No.		Item No.	Description	Pcs.		
1		A63.00.00	Tool Holder A63	3		
2		A42.03.00	Adaptor	3		
	2.1	30301210072	Bolt M8x16DIN6921	24		
3		30301230017	Screw M6X10DIN7991/10,9/	36		
4		L25LS-14.00.03	Outer Cover	3		
5		30309000000	Felt Ring	3		
6		30302000005	V-Ring Type A	3		
7		L25LS-14.00.02	Flange	3		
8		30301210051	Bolt M6X16DIN6921	3		
9		30301221012	Washer M6DIN9021A	3		
10		D4X2X1450	Seal	1		
11		L20NS-14.00.00	Bottom Cover Assembly	1		
12		30301210110	Bolt M5X16DIN6921	12		
13		L20NS-14.00.05	Sealer Inspection Cover	1		
14		L20NS-14.00.04	Inspection Cover	1		
15		30301210030	Bolt M5X12DIN6921	8		

11.19 PLANETARY DRIVE PARTS

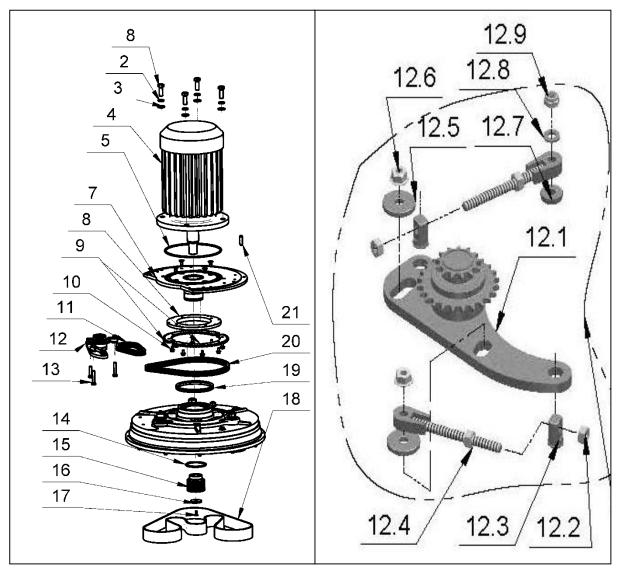


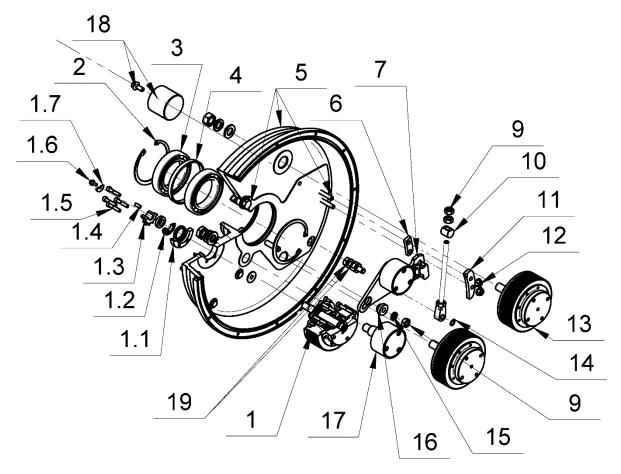
Figure 11.19

11.19	11.19 LAVINA® 20NEU/20NOEU PLANETARY DRIVE PARTS							
No.	Item No.	Description	Pcs.	No.	Item No.	Description	Pcs.	
1	30301210017	Bolt M12x35DIN933	4	12.4	L21X-17.30.00	Support	2	
2	30301220005	Spring washer M12 DIN 127B	4	12.5	L32D.10.00.24	Washer	2	
3	30301221006	Washer M12DIN125A	4	12.6	30301240095	Nut M8DIN6923	2	
4	S203	Electrical motor	1	12.7	L20GX-17.10.04	Washer	1	
5	D4X2X650	Seal	1	12.8	30301221004	Washer M8DIN125A	1	
7	L20E15.20.00	Base plate	1	12.9	30301240106	Nut M8DIN985	1	
7*	L20E15.20.00-1	Base plate	1	13	30301210078	Bolt M8x45DIN 933	3	
8	L20GX-15.00.01-K	Flange	1	14	30301250002	Circlip B65DIN471	1	
9	L20GX-15.00.02	Chain Pulley	2	15	L20E10.00.08	Central pulley	1	
10	30301210048	Bolt M6X12DIN6921	8	16	L25SPS-00.00.00.15	Washer	1	
11	06BH-35	Chain	1	17	30301230002	Screw M6x16DIN7991/10.9/	1	
12	L20GX-17.00.00	Tensioner assembly	1	18	30308000103	Belt	1	
12.1	L20GX-17.10.00	Chain Tensioner	1	19	3030200008	Seal	1	
12.2	30301240023	Nut M8DIN934	2	20	06BH-79	Chain	1	
12.3	L21X-17.00.01	Pin	2	21	30301260057	Key 8X7X36DIN6885A	1	

*The changes are for machines with Serial No1903L20NOEU1904 and bigger.

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11.20 PULLEY UNITS

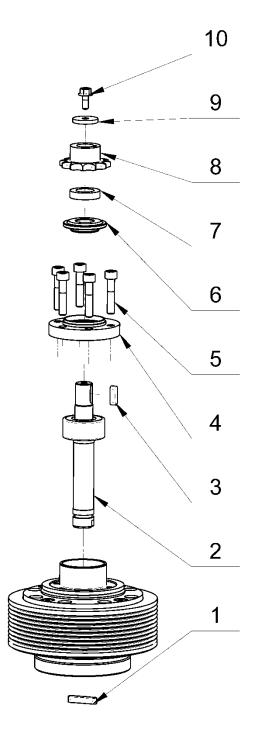


11.20	11.20 LAVINA® 20NEU/20NOEU PULLEY UNITS								
No.		Item No.	Description	Pcs	No.		Item No.	Description	Pcs
1		L20GX-16.00.00	Driving Pulley Unit	1	6		L20NS-10.00.12	Sector	1
	1.1	L20S-16.00.11-K	Flange with seal	1	7		L20NS-12.00.00	Tensioning Support	1
	1.2	L20S-16.00.14	Washer reflective	1	9		30301240099	Nut M10DIN934	3
	1.3	L20GX-16.00.02	Drive chain pulley	1	10		L32C-14.20.04	Nut	1
	1.4	30301260060	Key 5x5x16DIN6885A	1	11		L20NS-10.00.11	Sector	1
	1.5	30301230042	Screw	5	12		30301240095	Nut M8DIN6923	2
	1.6	30301210030	Bolt M5X12DIN6921	1	13		L20X-11.00.00	Pulley Unit	2
	1.7	L25X-10.00.46	Washer	1	14		30301250003	Retaining Ring	1
2		30301250009	Retaining Ring	2	15		30301220004	Spring Washer	1
3		30303000012	Roller Assembly	2	16		L20NS-10.00.14	Axle Bushing	1
4	L2	25SPS-00.00.00.34	Distance Ring	1	17		20GX-13.00.00	Roller Unit	1
5		L20GX-10.00.10-K	Disc	1	18		L20NS-10.00.58-K	Balancing weight	1
					19		L20N-S-10.00.13-K	Axis	1

Original Language

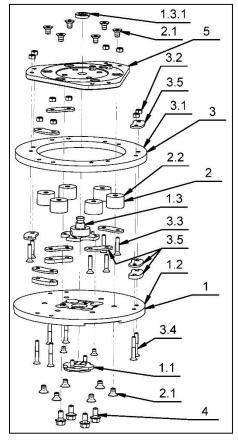
11.21 DRIVING PULLEY UNIT PARTS

11.21	11.21 LAVINA [®] 20NEU/20NOEU DRIVING PULLEY UNIT PARTS					
No.	ltem No.	Description	Pcs.			
1	30301260055	Key 5x5x25DIN6885A	1			
2	L20GX-16.00.13-K	Shaft	1			
3	30301260060	Key 5x5x16DIN6885A	1			
4	L20S-16.00.11-K	Flange	1			
5	30301230042	Screw M6x30 DIN 912/10.9/	5			
6	L20S-16.00.14	Washer	1			
7	L20GX-16.00.03	Distancing sleeve	1			
8	L20GX-16.00.02	Drive chain pulley	1			
9	L25X-10.00.46	Washer	1			
10	30301210030	Bolt M5x12DIN6921	1			



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11.22 TOOL HOLDER PARTS



11.22 LAVINA®20NEU Tool Holder Parts/SEE ALSO FIG.8.7.13/(POS.1 INCLUDE POS.1.1;1.2;1.3/POS.1.3 INCLUDE POS.1.3.1 and etc.)

				-	
No.			Item No.	Description	Pcs.
1			A63.10.00	Quick Change Assembly	1
	1.1		A63.12.00	Keylock Set	1
	1.2		A41.11.00	Quick Change plate	1
	1.3		A41.12.00	Security set	1
		1.3.1	A41.00.05	Washer A41	1
2			A25.00.10-K	Buffer with two screw	6
	2.1		30301230161	Screw M8X12DIN7991/10.9/	12
	2.2		A25.00.10	Buffer	6
3			A41.20.03-K	Driving Set A41	1
	3.1		A41.20.03	Elastic Element	1
	3.2		30301240124	Self Locking Nut M6DIN985	12
	3.3		30301230123	Screw M6X30DIN7991/10.9/	6
	3.4		30301230131	Screw M6X40DIN7991/10.9/	6
	3.5		A41.21.00	Set of plates	1
4			30301210072 Bolt M8x16DIN6921		4
5			A41.20.01	Flange	1

Figure 11.22