
ORIGINAL USER MANUAL



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SAFETY DIRECTIVES

In order to minimise the risk of serious injury or death to others or to oneself, read and understand the safety directives for a safe installation, operation, repair and maintenance of the machine and its accessories.

Pass these safety directives on to workplaces, provide copies to employees and make sure that everyone reads the safety directives before the machine is put into operation or maintenance on the machine begins.

Furthermore, the operator or the operator's employer must assess the particular risks that may be presented upon the each use of the machine.

Further instructions for the motor can be found in the manufacturer's own motor handbook.

Personal precautionary measures and qualifications

Only qualified and trained persons may use or handle the machine. The user must be physically capable of handling the technique, weight and power of the machine. Always use common sense and good judgement.

Personal protective equipment

Always use approved protective equipment. The operator and all others present within the working area of the machinery must use protective equipment that satisfies the following, at a minimum:

- Protective helmet, incl. hearing protection
- Shock-resistant protective glasses with side guards
- Respiratory protection, as needed
- Protective gloves and correct protective work boots
- Appropriate protective coveralls or similar clothing (not loose-fitting) that covers arms and legs.

Narcotics, alcohol or pharmaceuticals

Narcotics, alcohol or pharmaceuticals can impair your judgement and your ability to concentrate. Poor reaction ability and erroneous judgement can lead to serious accidents or fatalities.

Never use the machine when you are tired or under the influence of narcotics, alcohol or pharmaceutical. Nobody under the influence of narcotics, alcohol or pharmaceuticals may use the machine.

OPERATION, precautionary measures Dangers and risk of explosion

If a hot machine or exhaust pipe comes into contact with explosive substances, an explosion can occur. During operation, certain materials can generate sparks and ignition will occur. Explosions will result in severe injuries and fatalities.

Never use the machine in any explosive environment.

Never use the machine near inflammable material, smoke or dust.

Make sure that there are no undiscovered source of gas or explosive substance.

Avoid contact with the hot exhaust pipe or other hot parts of the machine.

DANGER! Fire risk

If a fire starts in the machine, it can cause injury.

If possible, use an ABE-classified fire extinguisher; this is not possible, use a BE-type carbon dioxide fire extinguisher.

DANGER! Fuel ignition

The fuel is inflammable. Fuel vapours can be ignited and explode and cause serious injury or fatalities.

Protect your skin so that it does not come into contact with fuel. If the fuel penetrates the skin, contact qualified medical care staff.

Never remove the tank lid nor fill the fuel tank if the machine is warm. Always fill the fuel tank outdoors or in well-ventilated premises, completely free from sparks or open flame.

Always fill the fuel tank at least 10 metres away from the location where the machine is to be used.

Open the fuel tank carefully so that any overpressure can carefully be released.

Never overfill the fuel tank.

Make sure that the tank lid is properly screwed on before starting to use the machine.

Avoid spilling fuel on the machine and immediately wipe up any spills.

Regularly check for fuel leaks. Never use the machine if leakage is discovered.

Never use the machine in the vicinity of materials that can generate sparks. Remove all such sources before starting the machine.

Never smoke when you are filling the fuel tank or when you are working with the machine or performing service on it.

Only store fuel in a container that is specially designed and approved for the purpose.

Used fuel and oil containers must be attended to and returned to the retailer.

Never use your fingers to look for fluid leaks.

WARNING! Unexpected movements

The machine can be subjected to powerful stresses during operation. If the machine breaks or gets stuck on something, it might result in sudden and unexpected movements causing injury.

Always inspect the machinery prior to use. Never use the machine if you suspect that it has been damaged.

Make sure that the control lever is always clean and free from fat and oil.

Keep your feet away from the machine.

Never sit on the machine.

Never use force nor abuse the machine.

Pay attention and watch what you are doing.

WARNING! Dust and smoke risks

Dust and/or smoke generated or spread when you use the machine can cause serious and permanent respiratory illness or injury (for example silicosis or other incurable lung disease that can be fatal, cancer, foetal injuries and/or skin inflammation). Certain dust and smoke generated by packing work can contain substances that are known to cause respiratory illness, cancer, deformations or other reproductive injuries. Dust and vapours in the air can be invisible to the naked eye; therefore, do not rely on your vision to determine whether there is dust or vapour in the air. In order to reduce the risk of exposure to dust and smoke, do the following:

Perform a site-specific risk assessment.

The risk assessment should entail dust and smoke generated by the use of the machine and the risk of disturbing existing dust.

Wear, maintain and correctly use the respiratory protection as assigned by your employer and are in accordance with occupational pensions, health and safety regulations. Respiratory protection must be effective and appropriate for the type of substance in question (and in appropriate cases, be approved by the relevant state authority).

Working in a well-ventilated area. If the machine has an exhaust system, direct the exhaust fumes as much as possible to reduce the dust in a dusty environment being spread about.

Use and maintain the machine as recommended in the enclosed operating and safety instructions. Clothes are washed or disposed of safely at the workplace. Shower and change into clean clothes before leaving the workplace in order to reduce exposure to dust and fumes for yourself, other persons, cars, residences and other areas.

Avoid eating, drinking, consuming tobacco products in the area where there is dust or smoke. Wash your hands and face thoroughly as soon as possible when leaving the exposed area, and always before eating, drinking, consuming tobacco products or making contact with other people. Obey all the applicable laws and directives, including professional work environment regulations.

Take part in air checks, medical examination programs and health and safety training programs provided by your employer or by your trade organisation for health and safety rules and recommendations. Consult with physicians in relevant occupational and environmental medicine.

Work with your employer and trade organisation in order to reduce dust and smoke exposure from the workplace and to reduce the risks. Effective programs were health and safety, rules of procedure to protect employees and others from hazardous exposure to dust and smoke should be prepared and carried out based on the guidelines offered by experts in health and safety.

WARNING! Exhaust risks

Exhaust from the machine's combustion motors contain carbon monoxide, which is poisonous, and some chemicals that cause cancer, foetal injuries or other reproductive injuries. The inhalation of exhausts can cause severe injuries, illness or death.

Never breathe in exhaust gases.

Make sure there is plenty of ventilation (the use of fans if necessary).

WARNING! Projectiles

Faults in the working material, accessories or the machine can cause material to be flung outward.

During operation, chips and other particles from compressed materials can become projectiles in cause injury to the operator or other persons. To reduce these risks:

News approved personal protective equipment and protective helmets, including shock resistant protective eyewear with sideguards.

Make sure that no unauthorised persons gain access to the work area.

Keep the workplace free from foreign objects.

WARNING! Rotating blades

There is a risk that hands and feet can be struck by rotating blades on the machine is running and caution is not exercised. This can cause injury.

Therefore make sure that hands and feet are within the protective cabinet during operation or when the machine is running.

WARNING! Bodily movements during work

When using the machine to perform work-related tasks, you may experience discomfort in the hands, arms, shoulder, neck or other parts of your body.

A similar comfortable working position while maintaining a secure foothold in order to avoid an uncomfortable or unbalanced working position.

Changing your position during your work session can help to prevent discomfort and fatigue.

If symptoms persist or recur, consult qualified medical personnel.

WARNING! The impact of vibrations

Even during normal and correct use, the machine subjects the operator to vibrations. Constant and overly frequent exposure to vibrations can cause, contribute to, or exacerbate injuries and disturbances to the operator's fingers, hands, wrists, arms, shoulders and/or nerves and blood supply, or other parts of the body, including weakness and/or permanent injury or diseases that can gradually develop over a period of weeks, months or years. Such injuries or diseases can include injuries to the blood circulation system, injuries to the nervous system, injuries to the joints and possibly injuries to other parts of the body.

Using maintain the machine is recommended in these instructions, in order to avoid unnecessary increases in vibrations.

The following can help you to reduce exposure to vibrations to the operator:

Make sure that the machine is well maintained and not too badly worn down.

Immediately stop using the machine if it suddenly vibrates very strongly. Before resuming work, find and eliminate the causes of the increased vibration.

Take part in health checks or doctor examinations in sign up or training programs offered by your employer and when this is required by law.

When working in cold conditions, where warm clothes and keep your hands warm and dry.

Information regarding "declaration of noise and hand and arm vibration, but the machine in question can be found following this safety and operating instruction.

WARNING! Crush injury risk.

There is a risk that hair, clothes and closing can be pulled in or caught by rotating machine parts. This can cause strangulation, head injury, wounds or death. To reduce these risks:

Never touch or move a rotating machine part.

Avoid wearing clothes, scarves or a clothes that can get caught.

Cover long hair with a hair net.

WARNING! Electrical safety

Always be careful with keeping a high level of electrical safety regarding the machines equipment, and never let anybody without an approved electricity certificate work with the machines electrical equipment.

Never let the machine go near any other trip wire or other source of electricity. Make sure that there are no hidden wires are other sources of electricity in the work area.

WARNING! Hidden risks

During operation, hidden wires and pipes pose a danger that can result in serious injuries.

Check the condition of the material before working.

Watch out for concealed cables and pipes, for example, electricity, telephone, water, gas and sewage water sources.

If the machine seems to have hit a concealed object, immediately turn off the machine.

Make sure that there is no danger before continuing.

WARNING! Involuntary start

Involuntary starting of the machine can cause injury

Keep your hands away from the machine start and stop functions until you are ready to start the machine.

Learn how to turn off the machine in an emergency situation.

WARNING! Risk of loud noise

High sound levels can cause permanent and handicapping hearing impairment, as well as other problems such as tinnitus (ringing, dizziness, squeaking or buzzing in the ears). To reduce the risks and prevent unnecessary increase the noise levels:

The assessment of these risks and the implementation of the appropriate controls are important.

Operate and maintain the machine is recommended in these instructions. This machine has a silencer, make sure that it is in place and in good condition.

Always use hearing protection.

TRANSPORT, PRECAUTIONARY MEASURES**WARNING! Loading and unloading, risks**

When the machine is lifted by crane and similar equipment, this can lead to injury.

Use the marked lifting devices

Make sure that all lifting devices are rated for the weight of the machine.

Never stand under or near a machine while it is being lifted.

MAINTENANCE PRECAUTIONARY MEASURES**WARNING! Involuntary start, risk**

Involuntary start, risk during maintenance, or when you are changing blades on the machine, there is a risk that the motor will strike backward, or that the machine will start unexpectedly. This is especially true when the motor is hot and the switch is engaged. This can result in serious injuries.

Always allow them to call before performing any measures.

Always turn the switch to the OFF position.

WARNING! Involuntary start, risk

All changes to the machinery can result in physical injury to you or others.

Never modify the machine's construction. Modified machines are not covered by the guarantee or product liability.

Always use original parts, original accessories and the correct tools for the correct measures.

Replace damaged and broken parts immediately.

Replace worn parts in good time.

RISK! High temperature

The machine's exhaust pipe and other parts become hot during operation. Touching them can result in burn injuries.

Never touch a hot motor or machine.

Wait until the motor, exhaust system or other parts of called before any servicing and maintenance work.

STORAGE, SAFETY MEASURES

Keep the machine in a safe and locked location where children cannot gain access.

TECHNICAL DATA
SV 23E

Flyweight motor.....	1-phase 50 Hz, 230V
Motor vibrator effect.....	350 Watt
Power consumption.....	1.63 Amp.
RPM.....	0-10 000 rpm
Frequency.....	max. 167 Hz
Centrifugal force	130 kN
Imperviousness.....	IP 54

Weights

Weight, excl straightboar.....	13kg
Weight 1.6 m.....	8.4 kg
Weight 2.2 m.....	11.6 kg
Weight 3.2 m.....	16.8 kg
Weight 4.2 m.....	22.1 kg

Dimensions

Floor vibrator height and width.....	1200x470 mm
Height of aluminium profile.....	120 mm

Straightboard

Standard lengths.....	1,6; 2,1; 3,2; 4,2 m
Hand/arm vibrations HAV according to ISO 5349.....	2 m/s ²
Max. sound pressure level.....	73 dB(A)

SIGNS

Warning Signs

N.B.! The composition of the signs are general for all Swepac machines. Other signs may occur depending on the model of the machine.



Before use, carefully read through the handbook and safety regulations in order to be able to handle the machine in a proper manner. Make sure that the handbook is always available.



Motor, silencer: In order to prevent burns or discomfort, make sure not to touch hot motor parts when the motor is running or when the machine has recently been used.



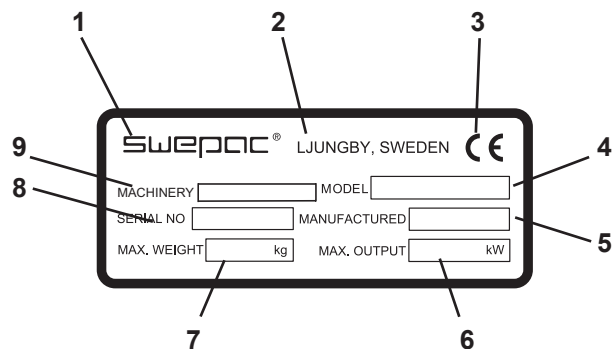
Belt drive: Keep hands, tools or other objects away from the belt drive when the machine is in operation in order to avoid injury.

Refer to the safety regulations in the handbook.



Since the sound pressure level in the operator's ears exceeds 80 dB(A) during protection must be used when working with machinery in order to prevent hearing loss.

Machine plate



1. Manufacturer.
2. Country of manufacture.
3. CE label.
4. Model designation.
5. Year of manufacture.
6. Maximum motor power.
7. Maximum weight.
8. Serial number.
9. Machine type

DESCRIPTION AND AREA OF USE

Swepac Floor Vibrator SV 23E is mainly intended for the vibrating and evening of slits and groutings on existing sub-flooring.

It can also be used on concrete structures up to a plastic consistency. For thicker concrete layers, a floor vibrator is used in combination with rod vibrator.

The floor vibrator has a well de-vibrated handle.

The straightforward is fastened in place with the vices, and the vibrator can easily be moved sideways without tools, if so desired.

It is also possible to switch aluminium profiles for a wooden latch.

Aluminium profiles coming the standard lengths of 1.6, 2.1, 3.2, 4.2 m.

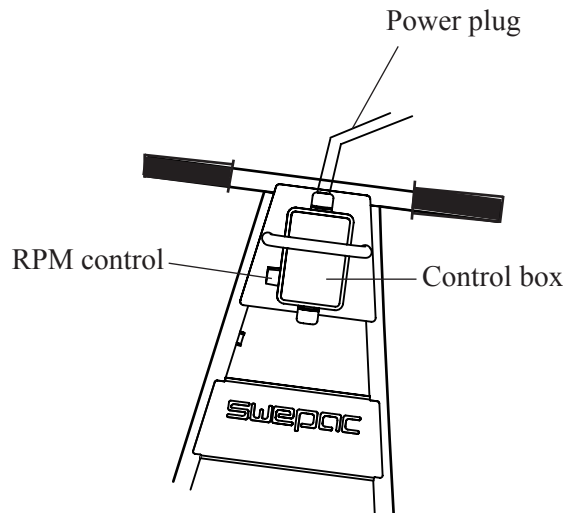
START OF FLOOR VIBRATOR

Connect the plug into the power outlet, 230 V, single phase.

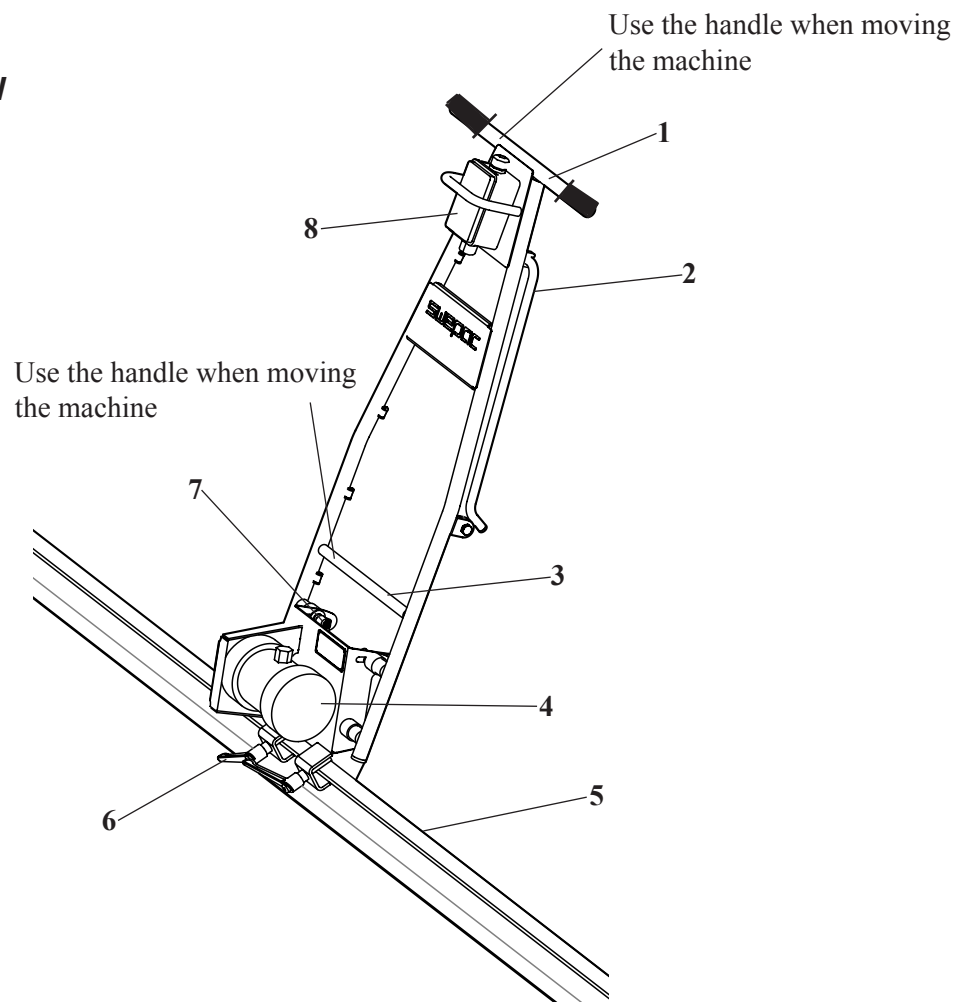
Hold the machine steady and turned the switch to the on position.

The speed can be seamlessly adjusted now to the needs of the user. This is done with the same knob used to start the vibrator.

N.B.! Avoid low RPM for a long time as this increases heat in the motor winding which can be harmful.



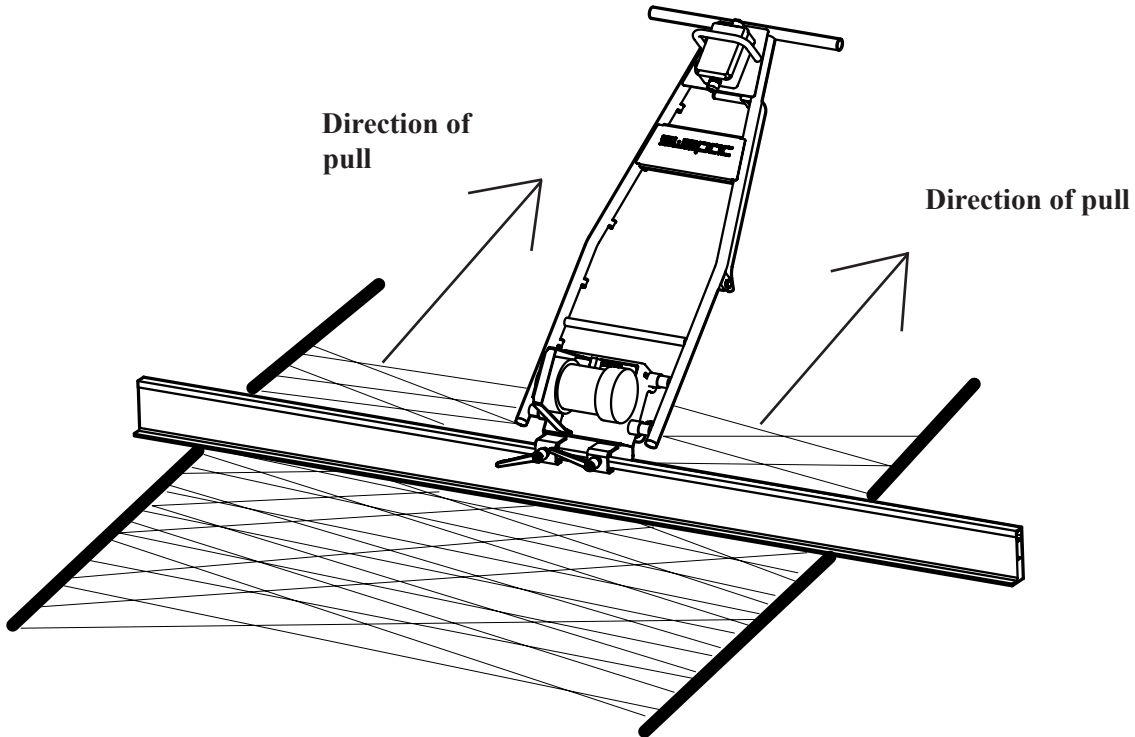
MACHINERY OVERVIEW



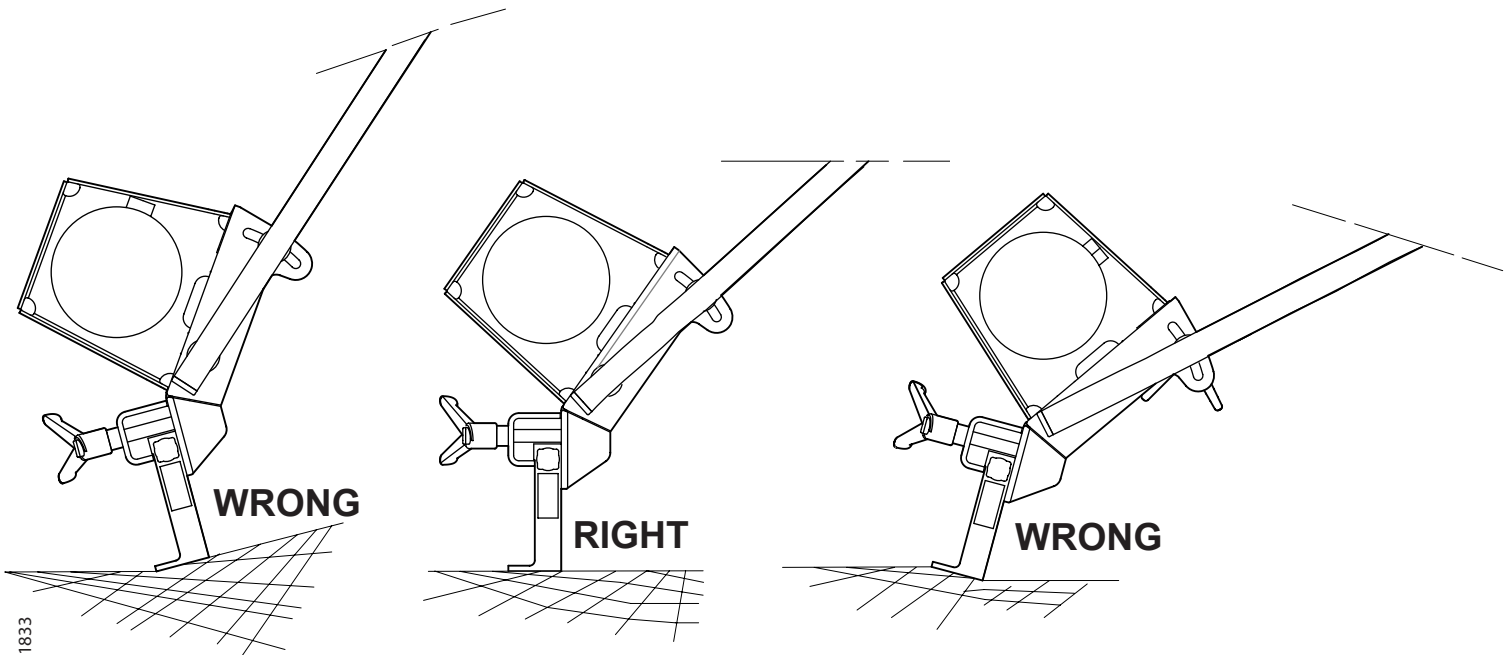
1. Handle
2. Support leg
3. Lifting handle
4. Electric motor, high frequency
5. Straightboard
6. Knob, attachment of straightboard
7. Knob, angle of handle
8. Startbox

OPERATION

The floor vibrator is run backward at a high speed, 0.5 – 1.0 m per minute. See the image below.



If the floor vibrator leans, the vibration effect and the evenness is poor. If the straightboard leans forward and back during the work, the surface will be uneven. For each wrong direction of the machine when working, see the images below.



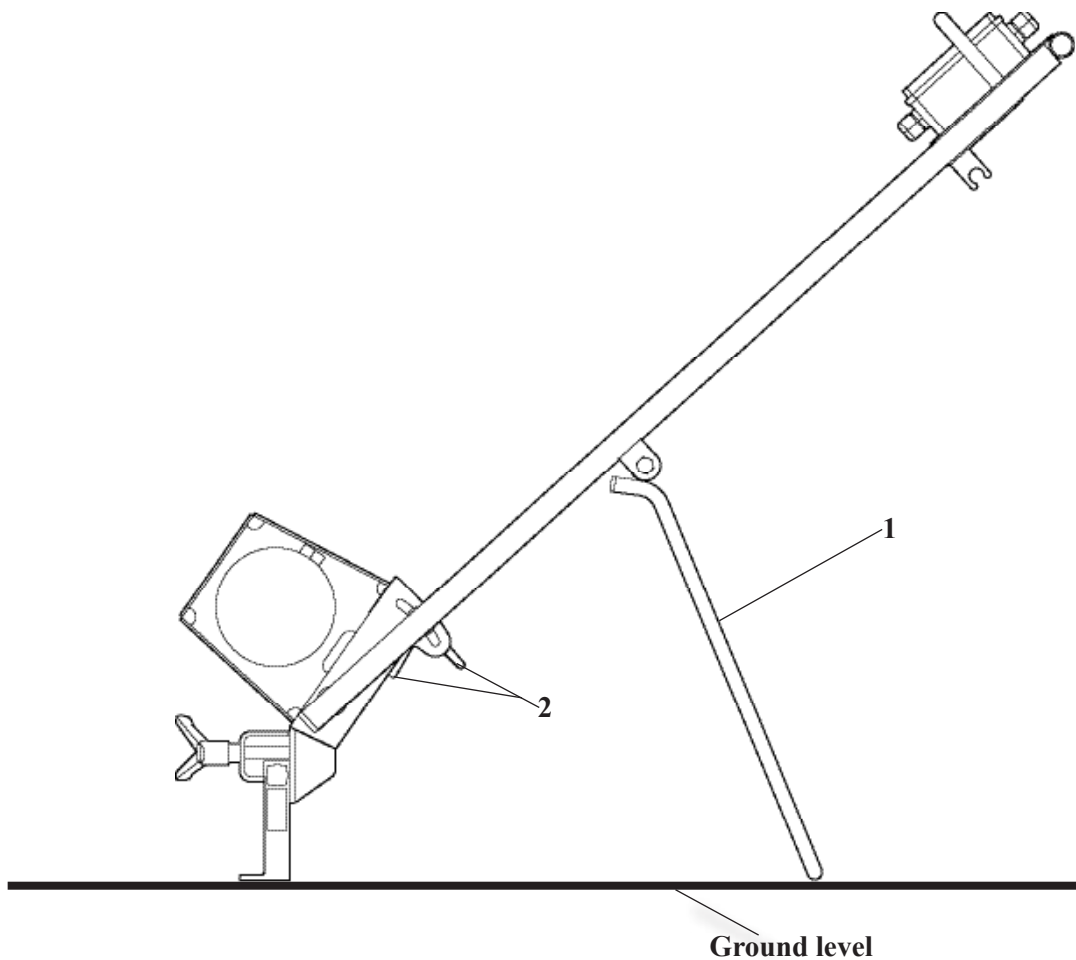
USE OF SUPPORT

The floor vibrator is equipped with the support that is used when the machine is not in operation.

The supporters removed easily with a handle and it folds down into its end position.

MOVING OF FLOOR VIBRATOR

Use the centre handle of the handlebar for lifting for short movements. See the image on page 10.

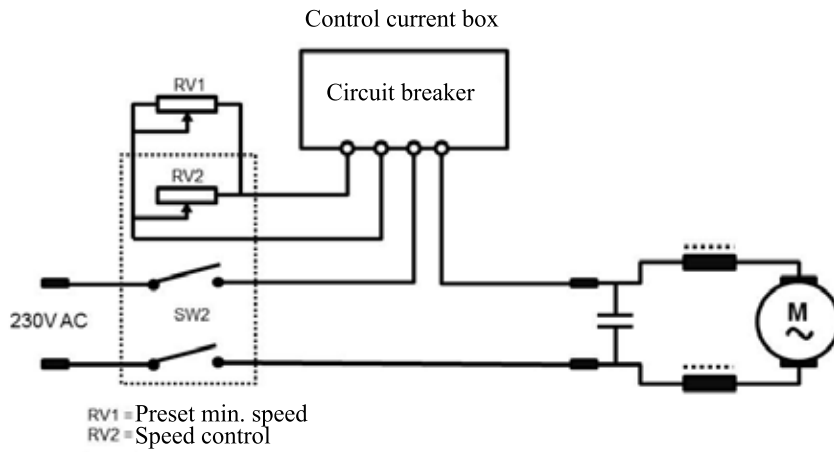
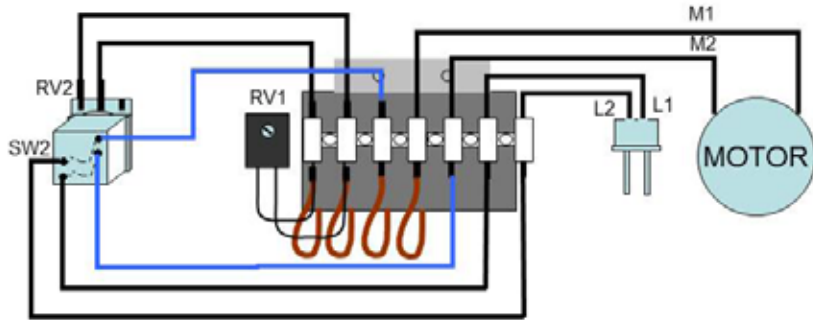


When the machine is not used (rest mode) it can rest on the support leg, see the above image, position 1

Depending on what work height is best suited to the operator, one can angle the machine handle toward the motor plate by loosening and locking the two turn levers, position 2

CIRCUIT DIAGRAM AND OTHER ELECTRICAL INFORMATION

Circuit diagram complete electrical system



NOTES



EC DECLARATION OF CONFORMITY

Manufacturer

**Swepac AB
Blockvägen 3
341 32 Ljungby**

1. Category: Rod vibrator

2. Type: SV 23E

The product satisfies the following directives:

2006/42/EG

2000/14/EG

2004/108/EG

EN 500-1

EN 500-4

EN 12649:2008+A1:2011

ISO 11201

ISO 5349-2:2001

Technical documentation available from:

Swepac AB, Blockvägen 3, 341 32 Ljungby
Hans Holmlund / Product manager

SWEPAC

SWEPAC AB

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