

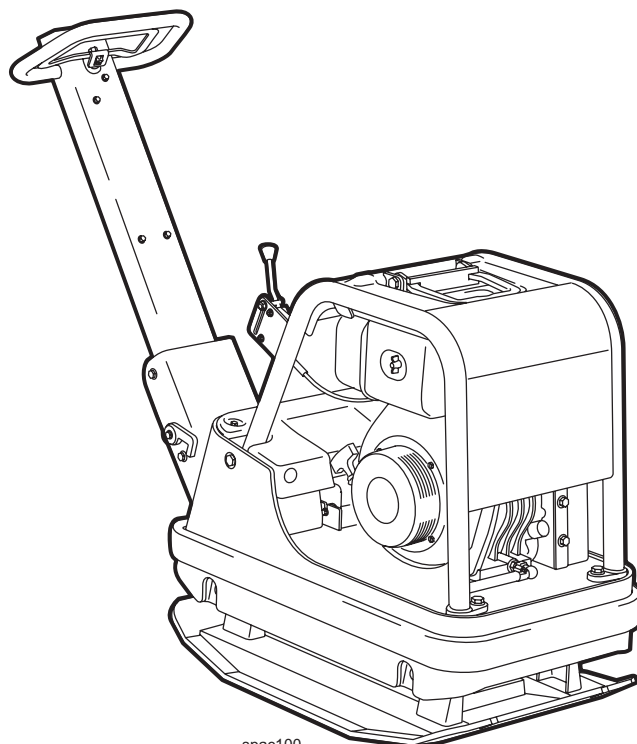
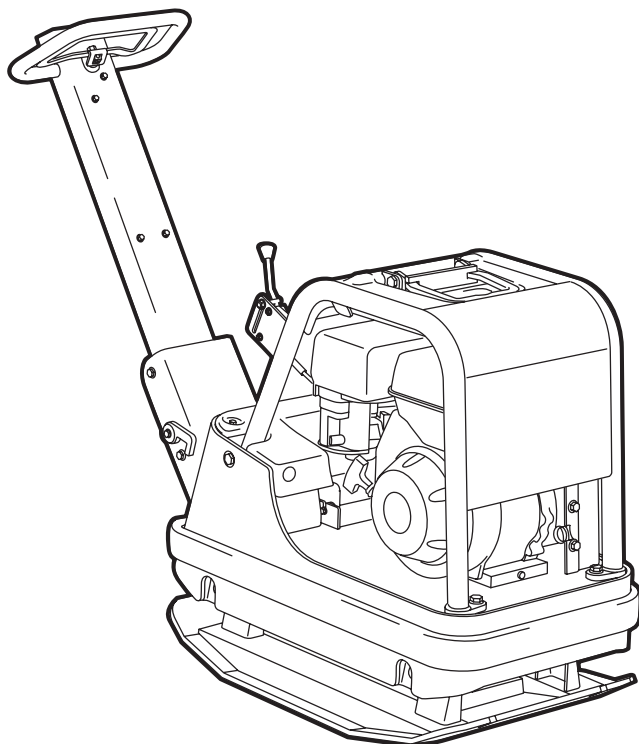
SWEPAC[®]

INTERNATIONAL AB

FB225

FB250

USER MANUAL



spac100

Dok: 101489A-GB 0820

USE

SWEPAC FB 225 / FB 250

are used to pack ballast under foundations, in connection with road building, in trenches, etc. On account of the forward/reverse function, the machine is very suitable for packing in tight spaces and as a complement to larger packing equipment in places with poor access

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SAFETY INSTRUCTIONS

- Before using the machine, the operator must be informed of the manufacturer’s safety instructions and instructions for use.
- The machine may only be used outdoors.
- The machine may not be used if protection and safety devices are not present or not working.
- The operator may not leave the machine unattended when the engine is on. When the vibrator is connected, the operator must be able to control the movement of the machine using the control handle and the start/stop controls. The machine may be operated only by a trained operator.
- During maintenance work or other interventions in the machine, the engine must always be off.
- Switch the engine off before adding fuel. Avoid fuel spillage and immediately wipe off any spilled fuel. Add fuel only in well ventilated areas.
- Avoid touching hot engine parts, for example the silencer.
- Before lifting the machine, check that the lifting device and its mounting are not damaged and that the rubber dampers on the base plate are undamaged and tightened.
- During transportation and storage, the fuel tank should be empty and the fuel cock switched off.
- When the machine is parked, ensure that it cannot tip over. The machine may not incline more than 20°.
- The operator must use ear protectors when working with the machine.
- The operator must ensure that no unauthorised persons are in the immediate vicinity of the machine.

STANDARDS

Noise

Measurement in accordance with the standard EN 500-4 Rev. 1:1998, Annex C:

In accordance with the conditions in Directive 2000/14/EC, Annex VI, the following values are reported:

| | FB 225 Honda | FB 250 Hatz | FB 250 Yanmar |
|--|-------------------------|------------------------|--------------------------|
| Sound pressure level at the operator’s ears, L _{pA} | 95 dB (A) | 95 dB (A) | 95 dB (A) |
| Permitted sound power level, L _{WA} | 108 dB (A) | 108 dB (A) | 108 dB (A) |
| Guaranteed sound power level, L _{WA} | 108dB (A) | 108 dB (A) | 108 dB (A) |

As the sound pressure level at the operator’s ears exceeds 85 dB (A), ear protectors must be used during operation!

Hand/arm vibrations

The vibration acceleration was measured in accordance with the ISO 5349 standard during operation on a surface of macadam. The measurement values were translated into the maximum daily exposure time for regular usage. For additional information about vibrations, please confer the regulation AFS 2005:15 from the Swedish Work Environment Authority, effective July 1st 2005.

| | FB 225 Honda | FB 250 HATZ | FB 250 Yanmar |
|---------------------------------------|-------------------------|------------------------|--------------------------|
| Hand/arm vibrations, m/s ² | 2,7 | 2,7 | 2,7 |
| The maximum daily exposure time | 6,9 | 6,9 | 6,9 |

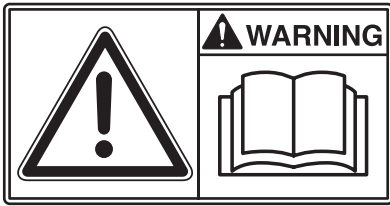
Exhaust Emissions

The FB 225 meet the requirements for exhaust emissions in accordance with EU Directive 2002/88EC stage 2.

The FB 250 meet the requirements for exhaust emissions in accordance with US-CARB stage 1.

SIGNS

Warning Signs



Before use, carefully read the manual and its safety instructions so that you can handle the machine safely. Ensure that the manual is always accessible.



Engine and silencer: to avoid burns or discomfort, do not touch hot engine parts when the engine is on or when the machine has recently been used.

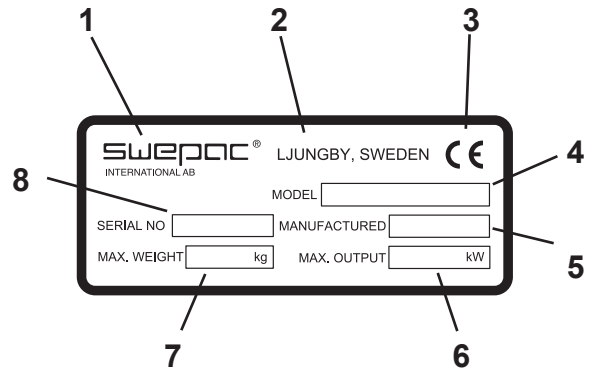


Belt drive: Keep hands, tools and other objects away from the belt drive when the machine is on to avoid injury and damage. See the safety instructions in the manual.



As the sound pressure level at the operator's ears exceeds 85 dB (A), ear protectors must be used when working with the machine to prevent hearing damage.

Machine Signs



1. Manufacturer
2. Place, country of manufacture.
3. CE mark.
4. Model name.
5. Year of manufacture.
6. Max. engine power.
7. Max. weight.
8. Serial number.

TECHNICAL DATA

FB 225 Honda

Net weight..... 240 kg
 Base plate, w x l..... 550 x 790 mm
 Speed approximately 25 m/min
 Permitted inclination 20°
 Centrifugal force 40,000 N
 Vibration frequency 80 Hz
 Drive engine..... Honda GX 270
 Engine power 6,0 kW
 Engine RPM 3200 RPM
 Fuel tank volume..... 6 liter
 Fuel type..... Unleaded petrol,
 95-98 octane
 Oil quantity, crankcase..... 1,1 litres

FB 250 Yanmar

Net weight..... 265 kg
 Base plate, w x l..... 550 x 790 mm
 Speed..... approximately 25 m/min
 Permitted inclination..... 20°
 Centrifugal force 40,000 N
 Vibration frequency 80 Hz
 Drive engine..... Yanmar L70N
 Engine power 4.5 kW
 Engine RPM 3200 RPM
 Fuel tank volume..... 3.5 liter
 Fuel type..... Diesel MK1
 Oil quantity, crankcase..... 1,1 liter
 Battery 12V 40Ah

FB 250 HATZ

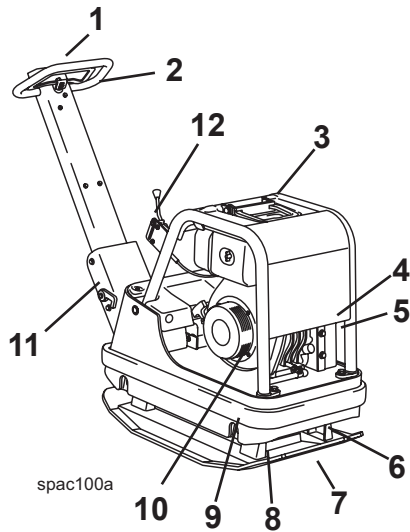
Net weight..... 265 kg
 Base plate, w x l..... 550 x 790 mm
 Speed..... approximately 25 m/min
 Permitted inclination..... 20°
 Centrifugal force 40,000 N
 Vibration frequency 80 Hz
 Drive engine..... HATZ 1B30
 Engine power 4.8 kW
 Engine RPM..... 3200 RPM
 Fuel tank volume..... 3.5 liter
 Fuel type..... Diesel MK1
 Oil quantity, crankcase..... 1.1 litres
 Battery 12V 40Ah

METHOD OF OPERATION

The machine consists of a base plate with a vibration element and an upper part cushioned from the base plate. The cushioning between the base plate and the upper part consists of rubber dampers. The power is transmitted from the engine to the vibration element via a V-belt which can be adjusted with a belt tensioner. The engine V-belt pulley is fitted with an integrated centrifugal clutch, which allows the engine to be started and run idle without the vibrator being connected. The engine is well protected against damage in connection with use and transportation by a sturdy protective frame with a protective panel on the top.

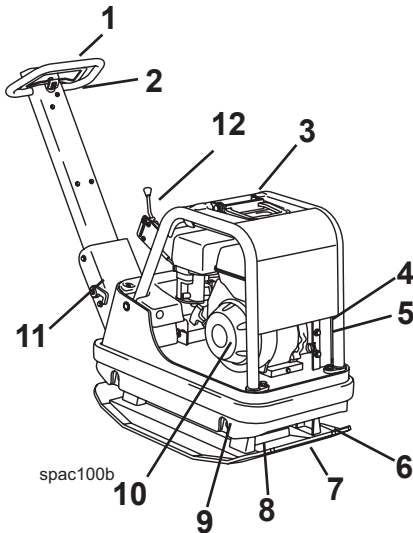
TECHNICAL DESCRIPTION

FB 225



1. Control handle
2. Forward/reverse control
3. Lifting eye
4. Centrifugal clutch
5. V-belt
6. Vibration element
7. Base plate
8. Rubber damper
9. Engine plate
10. Petrol engine
11. Transport locking device
12. Throttle lever

FB 250



1. Control handle
2. Forward/reverse control
3. Lifting eye
4. Centrifugal clutch
5. V-belt
6. Vibration element
7. Base plate
8. Rubber damper
9. Engine plate
10. Diesel engine
11. Transport locking device
12. Throttle lever

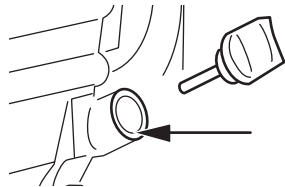
DAILY CHECKS

Fuel Check

Check that there is fuel in the tank. Top up if necessary.

Engine Oil Level Check

Check the oil level in the crankcase every day. The oil must reach the edge of the filling hole when the machine is on a level surface.



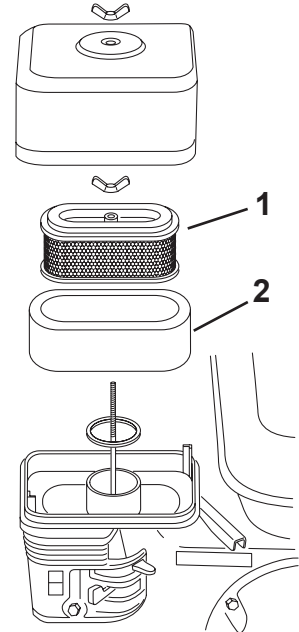
Oil/Fuel Leakage

Check every day that the engine is not leaking oil or fuel. If a leak is discovered, the machine may not be operated until the fault has been remedied. avhjälpts.

Air Filter Check

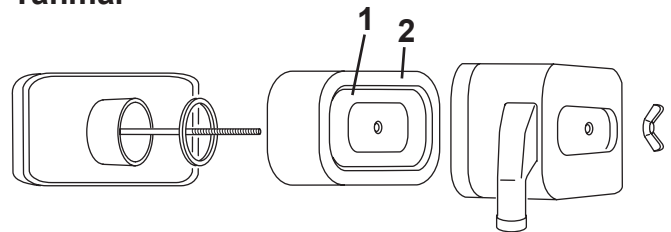
The air filter must be checked at least once every working week. When working in dusty conditions, check daily.

Honda

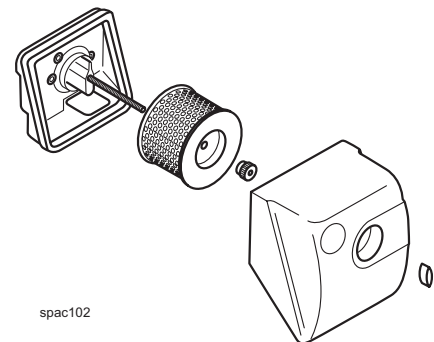


- 1. Paper element
- 2. Foam plastic element

Yanmar



HATZ



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Cleaning

1. Remove the foam plastic element and the paper element and check that they are undamaged. Replace damaged parts.
2. Wash the foam plastic element in liquid with a high flashpoint and let it dry properly. Dip in engine oil and squeeze dry.
3. Strike the paper element against a hard object a few times to loosen any dirt.

V-belt Drive

Check the tension and condition of the V-belt regularly.
Replace a damaged V-belt with the new type B 35.

Rubber Dampers

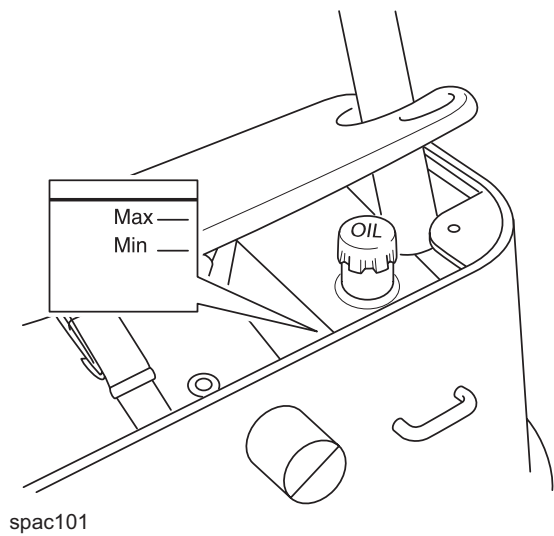
Check the condition of the rubber dampers regularly.
Replace damaged dampers.

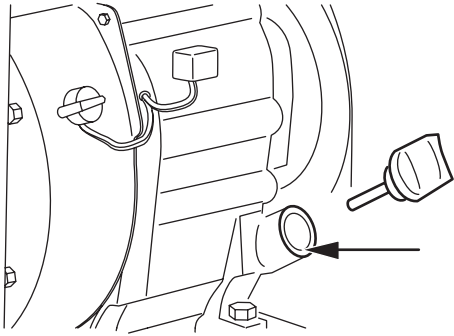
Fuel and oil recommendations

Fuel (petrol engine)..... Unleaded petrol or alkylate
Fuel (diesel engine)..... Diesel
Engine oil.....SAE 10W-30
Hydraulic oil Viscosity Grade ISO VG 22

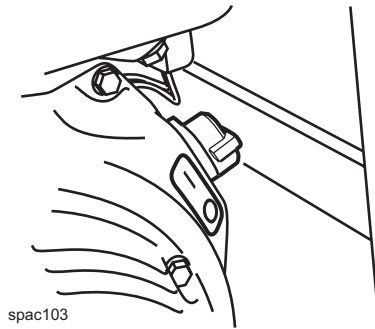
Hydraulic Oil Level Check

Check every day that the hydraulic connections do not leak or wear during operation. Check the oil level with the dipstick on the top of the tank. The level must be between “MIN” and “MAX”. Fill up when required.

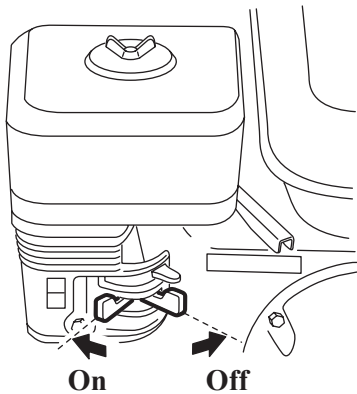




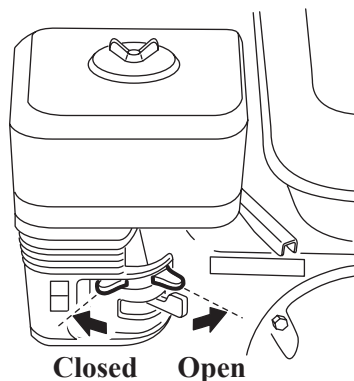
Oil level



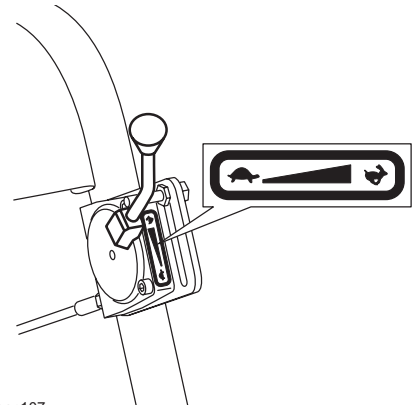
Engine power switch



Fuel cock



Choke



Throttle lever

BEFORE STARTING

See Daily Checks on page 8.

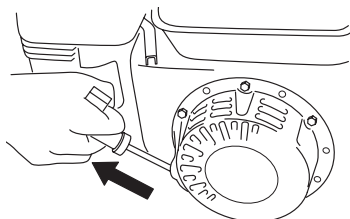
STARTING – Petrol Engine, FB 225

Switch the engine power switch to “1”.

Open the fuel cock.

Switch the throttle lever to “MIN”.

Adjust the choke. If the engine is cold, close the choke completely. Do not use the choke if the engine is warm or if the air temperature is high.



Start by pulling the starting handle. Pull it first until the mechanism engages. Then pull it hard and fast.

AFTER STARTING

Switch the throttle lever to idle.

Open the choke gradually.

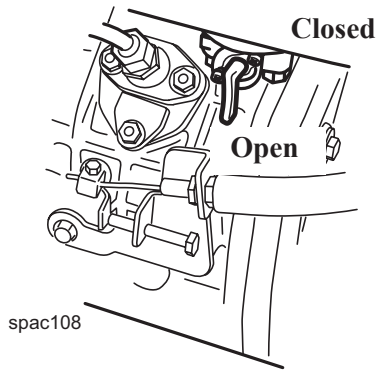
Run the engine warm for around 5 minutes.

STOPPING

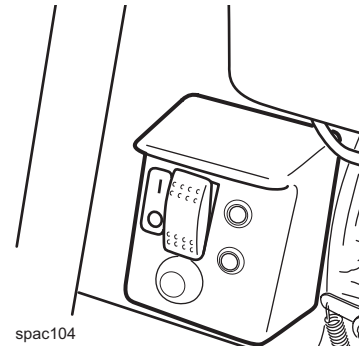
Switch the engine to idle and let it run for a few minutes.

Switch the engine power switch to “0”.

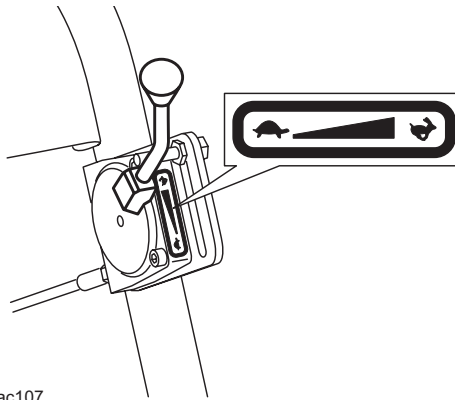
Close the fuel cock.



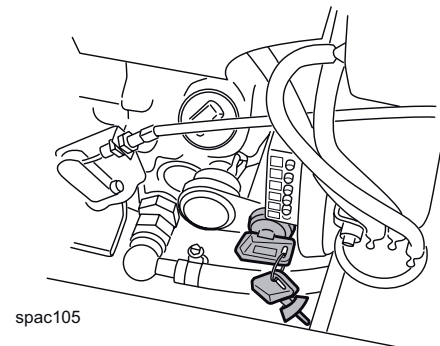
Fuel cock



Charging lamp and engine start switch



Throttle lever



Charging lamp and engine start switch(key)

BEFORE STARTING

See Daily Checks on page 8.
 Note! Never run the starter motor for longer than 10 seconds at a time. If the engine does not start, wait 15 seconds before trying to start it again.

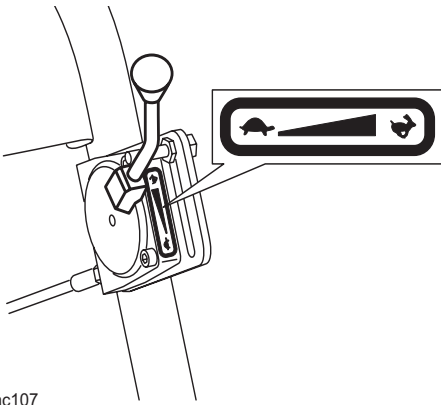
STARTING – FB 250 HATZ (Electrical Starter)

Switch the throttle lever to “MIN”.
 A whistle signal is heard when the key is turned to the ignition position.
 Push in the key and turn it. The key springs back after starting.

Indicator light for battery charging lights up.

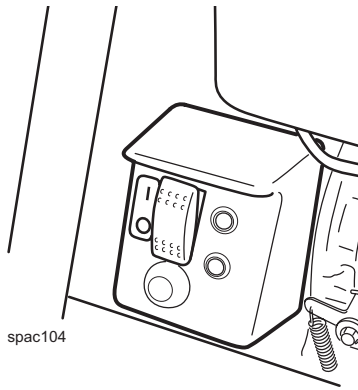
FB 250 Yanmar

Open the fuel cock.
 Switch the engine power switch to “1”.
 Switch the engine to the idle position “MIN”.
 Push the start button.



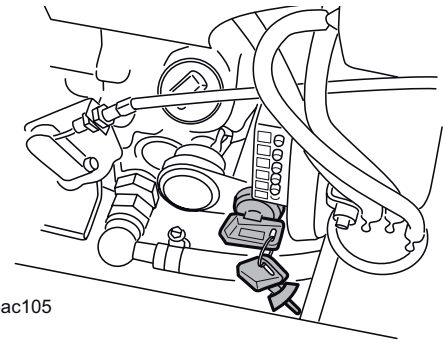
spac107

Throttle lever



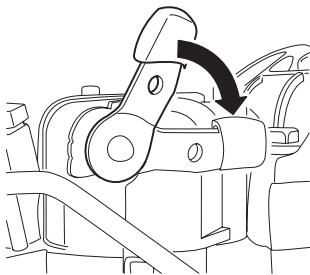
spac104

Charging lamp and engine start switch

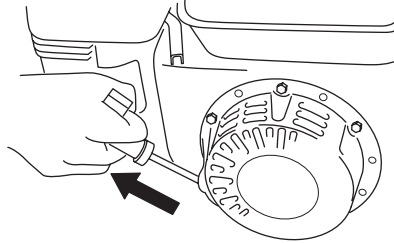


spac105

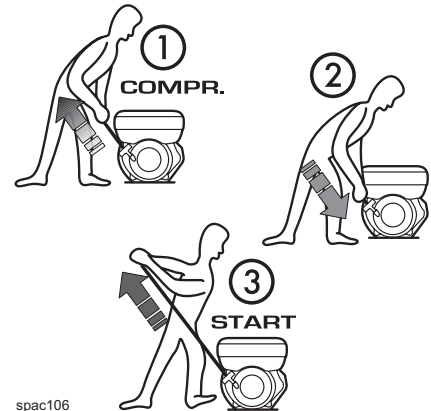
Charging lamp and engine start switch(key)



Decompression handle



Manual start



spac106

Handstart HATZ

Turn the key to the ignition position. Start the engine by using the starting contact. Pull the starter cord as far as it will go. Let the cord go back in.

Handstart Yanmar

Press the decompression handle down. The handle must remain in the depressed position. Switch the engine power switch to "1". Take hold of the starter cord with both hands and pull hard. In very cold weather or if the battery capacity is low for a different reason, starting can be facilitated using the decompression device in connection with the valve housing. Press the lever down and hold it down until the flywheel has reached its maximum RPM. Then let it go.

STOPPING

Switch the engine to the idle position "MIN", let it run for a few minutes, then switch it to "O".

Yanmar

Never switch the engine off with the decompression handle. Switch the engine power switch to "0". Close the fuel cock.

HATZ

Turn the key. A whistlesignal is heard if the key is in the ignition position.

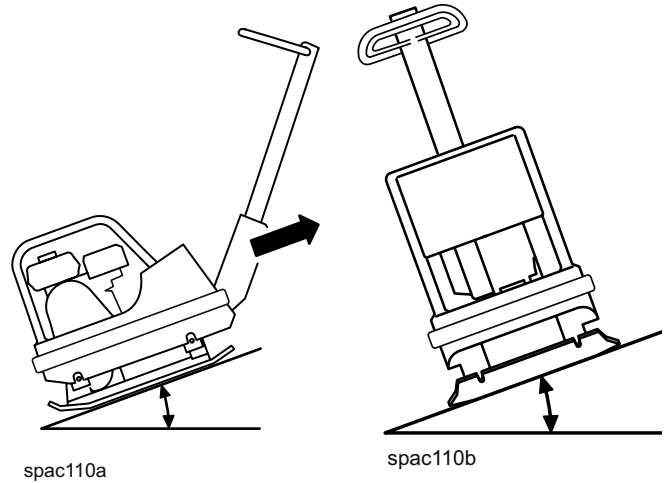
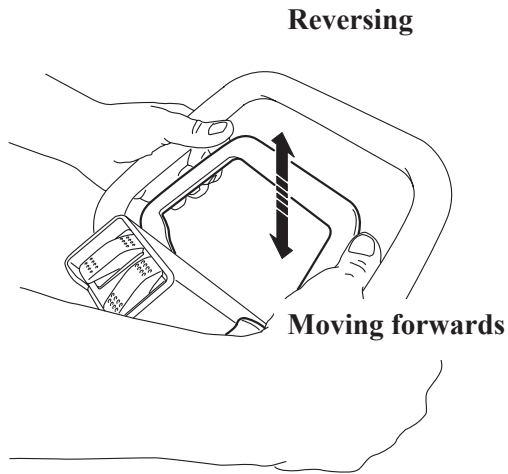
OPERATING INSTRUCTIONS

The machine's vibration elements start when the throttle is increased. The best packing is achieved at full engine RPM ("MAX"). Avoid running the engine at other RPM. The machine's vibration element stops when the throttle lever is switched to idle.

To move forwards, do not touch the forward/reverse control. To reverse, pull the hoop towards the control handle.

NOTE! When moving up a slope, the machine should be reversed.

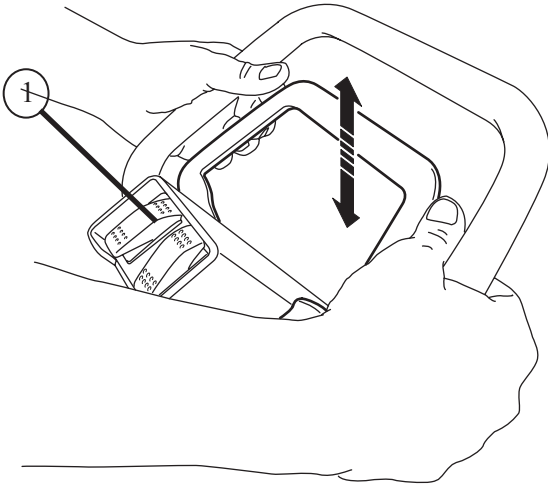
The machine may not incline more than 20° when in use or parked.



The machine is only designed to be used outdoors. Work with the machine in daylight or other adequate lighting. Ballast must be wetted or naturally damp. All other use is discouraged.

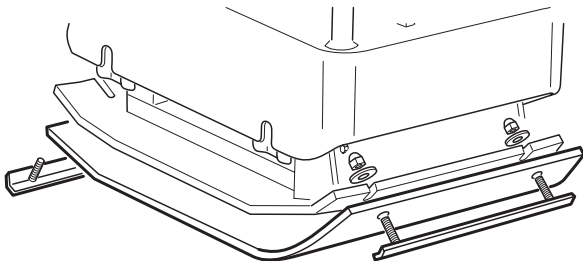
Handle heater

FB 250 has a heated handle for increased comfort. Push the button (1) to activate the heated handle.



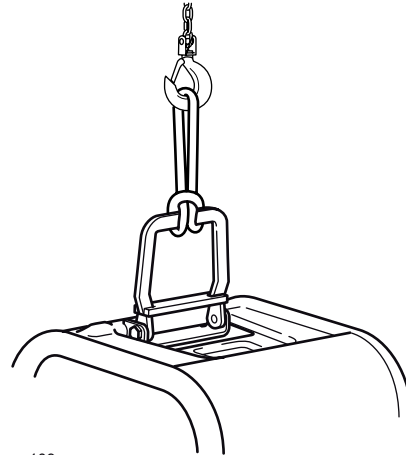
Polyuretan Pad

A polyuretan pad is used for stone paving work to protect against stones and ground clinker



TRANSPORTATION

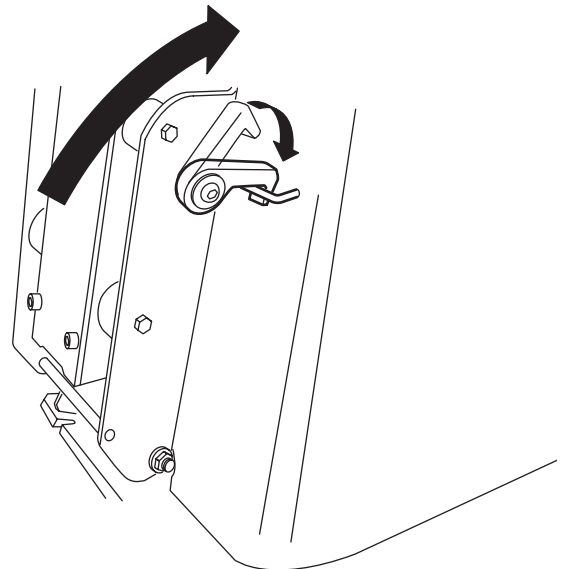
The machine has a lifting eye that can be used for a hook or hawser.



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Check before lifting that the lifting eye and its mounting on the machine are undamaged. Check also that the base plate's rubber dampers are undamaged and firmly attached.

For transportation by vehicle, the handle must be folded forwards and locked with the transport locking device. The machine must then be secured with, for example, approved straps. Note! Secure it by the base plate and not the rubber-cushioned upper part.



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