

Operating and Maintenance Manual



CF 2-II Hd

0100220

Table of contents

Introduction	4
Safety guidelines	5
Graphic presentation	8
Device description	9
Technical data	10
Activities prior to starting work	12
Starting	14
Compacting	15
Shutting down	15
Maintenance overview	16
Maintenance work	17
Operating fluids and fill levels	19
Troubleshooting	19
Storage	20

Introduction

This operating and maintenance manual is designed to facilitate familiarization with your soil compactor, and to enable you to maintain the compactor and use it for its intended purpose.

When complying with the instructions in the operating and maintenance manual you help avoid hazards, reduce repair and downtime costs, and increase the reliability and service life of your soil compactor.

This operating and maintenance manual must always be available at the implementation site of the soil compactor.

If necessary, you can obtain additional information from your authorized WEBER MT dealer, or you can obtain information from one of the contact addresses on the last page.

You can obtain information on the assembled Honda gasoline engine and find a spare-part list for it at **www.honda-engines-eu.com**

The valid conformity declaration is enclosed with every machine delivery.

Safety guidelines

General

All safety instructions must be read and complied with, as non-compliance will result in

- danger to life and limb of the user,
- impairments to the machine or other property.

In addition to the operating manual, the accident-prevention regulations in the country where the appliance is used must be complied with.

Intended use

The soil compactor should only be used if it is in a technically faultless condition, as intended, in a safety-conscious and hazard-conscious manner, in compliance with the instructions in the operating manual. Malfunctions that impair safety must be eliminated without delay.

The CF 2-II Hd soil compactor is designed exclusively for compacting

- sand,
- gravel,
- asphalt, crushed rock,
- low-cohesive mixed material,
- concrete paving stone.

Any other use of the soil compactor is considered to be improper use for which the owner shall be exclusively responsible. All liability is rejected if damage occurs due to non-compliance with this provision. This risk is borne solely by the user.

Easily foreseeable misuse

Any use for which the machine is not intended.

Operation

Soil compactors are only permitted to be operated by suitable persons of or above the age of 18. Personnel must be instructed in how to guide the compactor by the owner or by the owner's assigned personnel.

The machine operator must comply with traffic regulations. If instructions that affect safety are given by third parties, then the operator must be authorized to reject these instructions.



Unauthorized persons are not allowed in the area of the soil compactor during the compacting process.

Protective equipment

This machine is capable of exceeding the permissible sound level of 80 dB(A). The owner might also face additional dangers when using the machine. Precautionary action must, therefore, be taken.

Protective equipment includes:



Hearing protection



Hard hat



Safety shoes



Protective gloves

Operation

Prior to starting work the owner of the compactor must be familiar with the work environment. The work environment includes obstacles in the work and traffic area, the bearing capacity of the ground, as well as the necessary safeguarding of the construction site in the area adjacent to public traffic; and it includes compliance with traffic regulations.

The soil compactor should only be operated when the protective fixtures are mounted. The protective fixtures must all be in functional condition.

At least once per shift the compactor must be checked for apparent defects. If there are apparent defects then operation of the compactor must be stopped immediately, and the responsible person must be informed. Prior to restarting, compactor malfunctions that have occurred must be corrected. Always maintain adequate clearance to the edges of pits and embankments.

Do not drive at ninety degrees to slopes to prevent the compactor from tipping over.

After work has been concluded secure the compactor in accordance with statutory regulations, particularly in the area of public traffic surfaces.

Operation under difficult conditions



Never inhale the exhaust gas. It contains carbon monoxide, a colorless and odorless gas that is extremely hazardous, which, if inhaled even briefly, can cause unconsciousness and death.

Therefore, never operate the engines in enclosed areas or in areas that are poorly ventilated (tunnels, caves, covered pits, etc.).

Exercise particular caution when operating the engine in the vicinity of people and livestock.



The soil compactor described in this operating manual is suitable for use in trenches that are deeper than shoulder height, provided the following basic conditions have been met:

- trench width at least 1.5 m
- trench depth no more than 3.0 m
- open trench width at least 10 m
- slight wind movement in the trench
- the compactor is used for periods of no more than 4 x 15 minutes per shift, interrupted by breaks (each approx. 1 hour)

If these boundary conditions are not complied with, the owner is required to implement the protective measures identified as necessary to avoid CO poisoning as part of the owner's risk assessment, for example:

- use of zero-emission compacting equipment
- blower-supported ventilation with a fan forcing air along the length of trench

The use of respiratory equipment during operation of this gasoline-powered compactor without documented evidence of conformity and without the necessary precautions **is generally not permitted!**

- as CO will accumulate in the blood after repeated use
- as CO filters have a short service life

Maintenance and repair work

Only use **original Weber MT spare parts** to ensure reliable and safe operation for maintenance or repair work.

Hydraulic hose lines must be checked at regular intervals in accordance with standard engineering practice, or they must be replaced at appropriate intervals, even if no signs of safety-relevant defects are present.

Adjusting tasks, maintenance tasks, and inspection tasks must be carried out on schedule as specified in this operating and maintenance manual. These activities should only be executed by instructed personnel.

For repair, service, or inspection work the engine of the compactor must be safeguarded against unintentional starting.

All pressurized lines, particularly hydraulic lines and lines of the injection system of the drive motor must be depressurized before performing maintenance or repair tasks.

For maintenance and repair tasks the compactor must be parked on a level and stable substrate and must be secured from rolling off or tipping over.

Heavy components and assemblies must be secured to and lifted by hoisting machines that can bear their weight when they are replaced. Ensure that no hazard is caused by raising components or assemblies.

Do not position yourself or work under suspended loads.



If lubricating oils and fuel come into contact with skin, they can cause skin cancer. Upon contact with the skin, clean affected skin with suitable cleaning agent without delay.

Inspection

Compactors must be inspected in accordance with the corresponding implementation conditions and operating conditions, as needed; however an inspection to ensure operationally safe status must be performed by an expert at least once a year. The results of the inspection must be recorded in writing and must be stored at least until the next inspection.

Cleaning work

Prior to cleaning the compactor with a high-pressure cleaner, protect all accessible energized switches, cable connections, etc. against water penetration by masking them off.

Cleaning tasks should only be executed in areas that are suitable and have been approved for this purpose (oil separator amongst others).

Disposal

All operating fluids and auxiliary materials must be disposed of in an environmentally compatible manner in accordance with country-specific regulations.

Important information for operating and maintenance personnel is marked by pictograms.



Warning against irritants or materials hazardous to health



Warning against a hazardous place



Warning against a suspended load



Wear ear protection



General regulation



Environmental protection



Hard hat

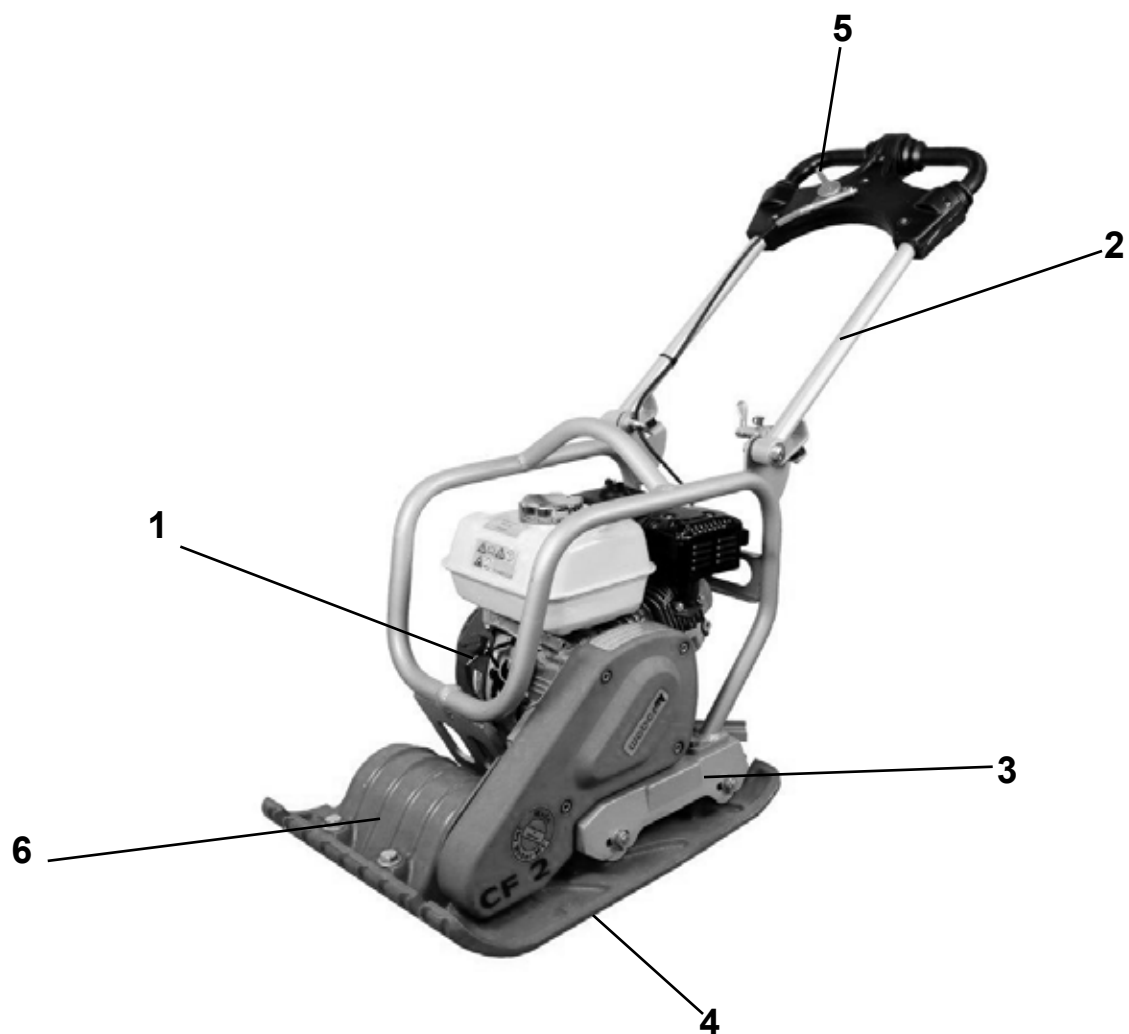


Safety shoes




Protective gloves

Graphic presentation



Overall view – CF 2-II Hd

- 1 Engine
- 2 Guide bar
- 3 Engine bracket
- 4 Base plate
- 5 Gas lever
- 6 Exciter
- 7 Water tank (not shown) (Accessory)
- 8 Undercarriage (not shown) (Accessory)
- 9 Protective mat (not shown) (Accessory)
- 10 Hearing protection (sticker) 

Device description

The CF 2-II Hd soil compactor is used for road-building and landscaping compaction tasks.

Drive

The unit is powered by an air-cooled Honda gasoline engine.

Force is transferred to the exciter mechanically via a V-belt.


Operation

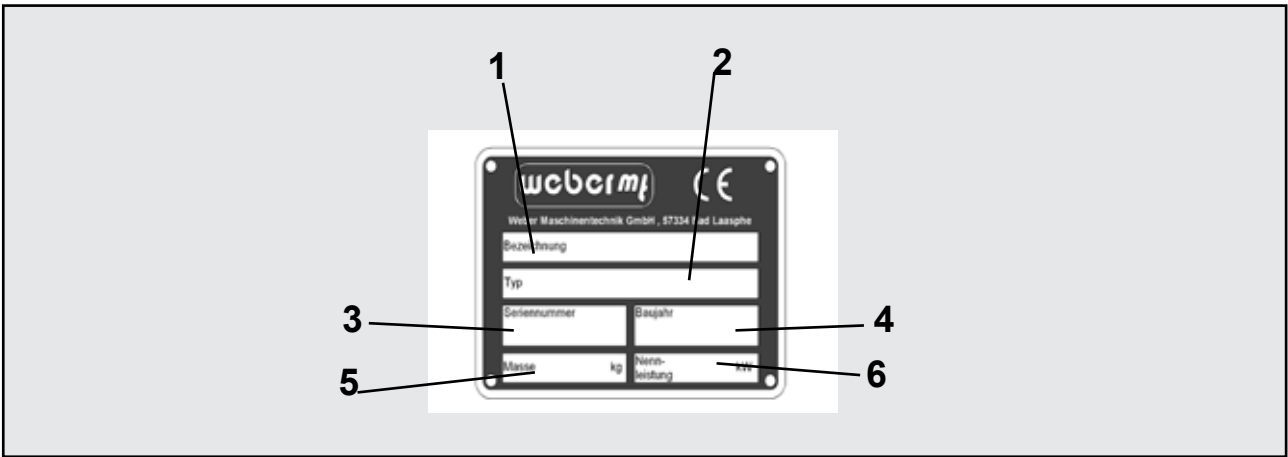
Start the Honda gasoline engine with the attached reversing starter. After starting, vibration is switched on via the centrifugal clutch attached to the engine.

The guide bar is used to steer the soil compactor.

Technical data

	CF 2-II Hd
Weight	
Operating weight CECE in kg	83
Dimensions	
Overall length (in mm)	1130
Overall width (in mm)	450
Height with folded guide bar (in mm)	960
Base plate length (base in mm)	400
Pressure surface (in mm)	400x450
Drive	
Engine manufacturer	Honda
Type	GX 160
Performance at operating speed in accordance with ISO 3046-1 (kW)	2.7
Combustion process	4-stroke gasoline
Operating speed (1/min)	3000
Drive speed forward (soil-dependent in m/min)	26
Incline capacity (ground-dependent in %)	35
Area capacity (in m ² /h)	702
Vibration	
System	Single shaft vibrator
Drive concept	Mechanical
Frequency (in Hz)	95
Centrifugal force (in kN)	15

	CF 2-II Hd
Noise emissions in accordance with 2000/14/EC	
Sound pressure level L_{PA} ascertained in accordance with EN 500, in dB (A)	91
Sound power level L_{WA} ascertained in accordance with EN ISO 3744 and EN 500, in dB (A)	105
Vibration values	
Root-mean-square acceleration value for hand-arm vibration ascertained in accordance with EN 500 in m/s ²	2.4
 In accordance with directive 2006/42/EC, complying with the vibration values is the owner's responsibility.	



1 Description

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2 TYPE

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3 Serial number

.....

4 Year of construction

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5 Mass

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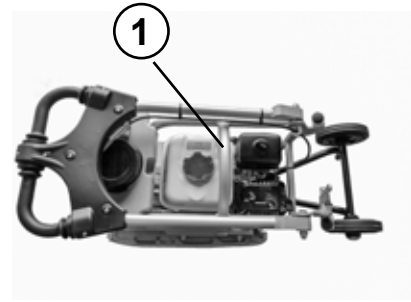
6 Rated power kW

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Activities prior to starting work

Transport

- ⚠ When transporting the soil compactor on a vehicle, secure it with suitable restraints.



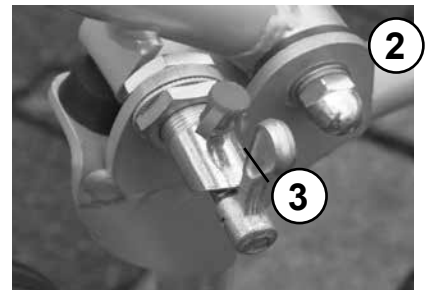
Fit the crane hook into the lifting ring (1) and lift the machine onto the desired means of transport.

- ⚠ Only use lifting machines with a minimum bearing capacity of 150 kg.

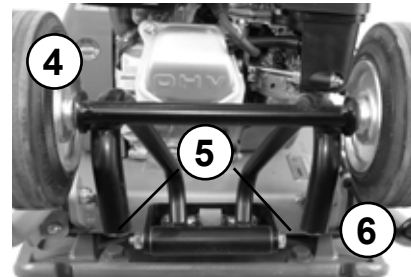
- ⚠ Do not step under suspended loads.

Mounting the undercarriage

Arrest the guide bar (2) with the spring bolt (3).



Use the screws (5) to fasten the undercarriage (4) to the engine console (6).



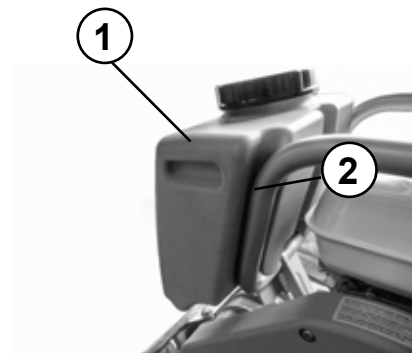
Pivot the undercarriage under the base plate.

- ⚠ The manual guidance rod must be locked during transport.




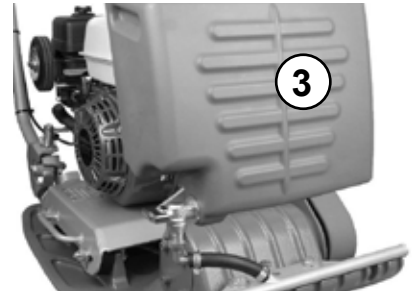
Mounting the water sprinkling system

Lift the water tank (1) into the frame (2).




Attach the water spray pipe (3) to the base plate.

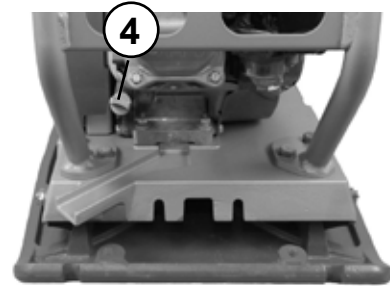
 Completely empty the water tank if there might be a frost.




Check the engine oil level

Unscrew and pull the oil dipstick (4) out of the crankcase.

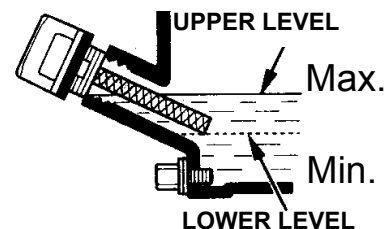
 Insert the oil dip stick in the oil filler neck, but do not screw it in.



The correct oil level is between the min. and max. marks.


 When reaching the min. mark engine operation must be stopped immediately, and the oil level must be topped up to the max. mark.


Risk of engine damage if the oil level drops below the minimum oil level in unfavorable operating conditions.

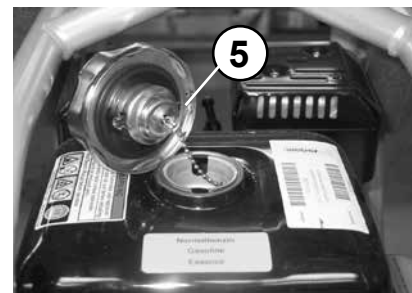


Check the fuel level

Open the gas cap (5) and, if necessary, top off with fuel as specified.

 For work at the fuel system, have a suitable fire-extinguishing agent at the ready.


 Fire, naked light, and smoking is forbidden!

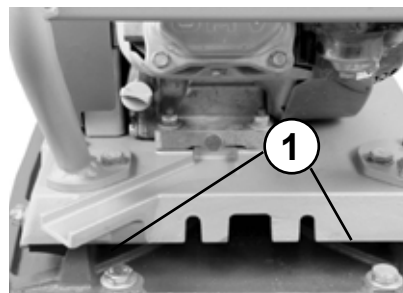


Installing the protective mat

Hook in the protective mat at the rear.

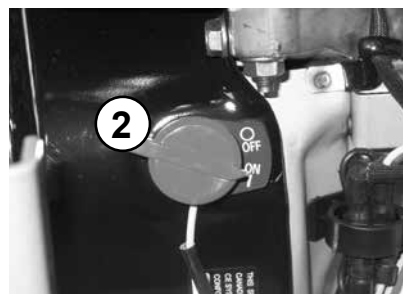
Fasten with holder, screws, spring-lock washers and nuts (1) on the base plate front.

 Ensure that the protective mat rests under the base plate.



Starting

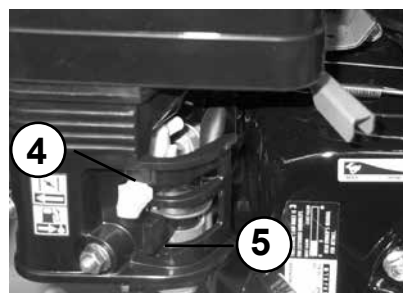
Turn the short-circuit button (2) to the "ON" position.



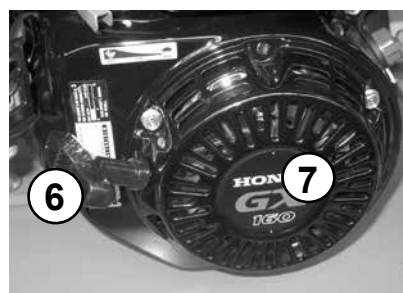
Bring the gas lever (3) into full-throttle position.




Slide the choke lever (4) to the left (close).

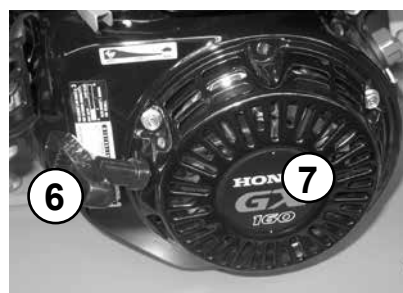


Open the fuel cock (5).



Slowly tighten the handle (6) of the reversing starter (7) until resistance is noticeable.
Allow the handle (6) to glide back into the initial position, and then forcefully and completely pull it through with both hands.

 After the engine has warmed up, slide the choke lever to the right (open).



Compacting

Bring the gas lever (1) into full-throttle position.



Control drive speed and direction of travel with the handle (2).



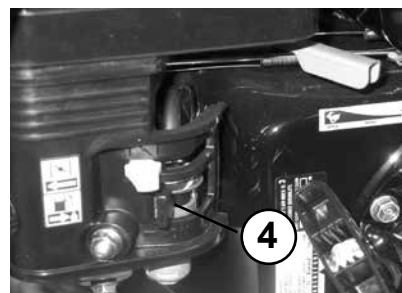
 Only run machine within reach of the guide bar.

Shutting down


Bring the gas lever (3) into idle position.




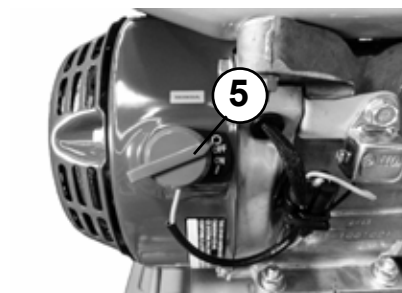
Close the fuel cock (4).



Turn the short-circuit button (5) to the "0" – OFF position.







 During breaks – even if they are short – the machine must be shut down.

 Parked devices that represent an obstacle must be safeguarded against through conspicuous measures.



Maintenance overview

Maintenance interval	Maintenance point	Maintenance activity
After the first 25 operating hours	Engine Machine cpl.	– Change the engine oil – Check valve play, adjust if necessary – Re-tighten all accessible threaded connections
Every 8 operating hours / daily	Air filter	– Clean air filter insert, check for damage, replace if necessary
Every 150 operating hours / every 6 months	Engine	– Change the engine oil
Every 150 operating hours / every year	Vibrator Engine	– Change oil – Adjust valve play – Clean spark plug / adjust electrode gap

-  The regulations of the engine manufacturer must be complied with in addition to the above maintenance overview!
-  Work must be carried out using regulation tools, and the operating and maintenance manual must be complied with for all work.
-  All maintenance work: Select collection vessels large enough to prevent oil from spilling onto the ground. Dispose of waste oil in an environmentally friendly manner (regulation on waste oils).
-  Dispose of oils, greases, cloths soaked in oil, and replaced parts with oil on them in an environmentally friendly manner.
-  If lubricating oils and fuel come into contact with skin, they can cause skin cancer. Upon contact with the skin, clean affected skin with suitable cleaning agent without delay.
-  If accessible during maintenance, check the condition and stability of all screws.

Maintenance work

Change the engine oil

Remove the oil dip stick (1).

Remove the oil drain screw (2) and drain oil.



Only drain engine oil when at operating temperature.

After emptying completely, put in the oil drain plug/locking screw (2). Top up oil as specified.



Risk of scalding due to hot oil.



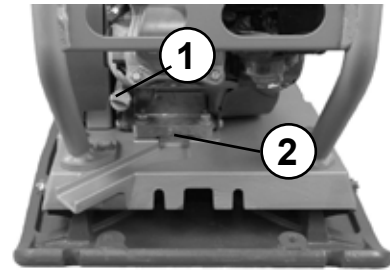
When working in the area of the engine compartment there is a danger of being burnt!



If lubricating oils and fuel come into contact with skin, they can cause skin cancer. Upon contact with the skin, clean affected skin with suitable cleaning agent without delay.

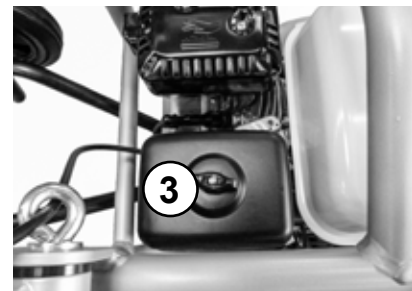


Dispose of oils, greases, cloths soaked in oil, and replaced parts with oil on them in an environmentally friendly manner.



Clean/change air filter cartridge

Unscrew the air filter cover (3).




Remove the air filter insert (4) from the air filter enclosure. Clean air filter insert as specified by the engine manufacturer if there is damage or if it is extremely dirty.





Changing the oil in the exciter

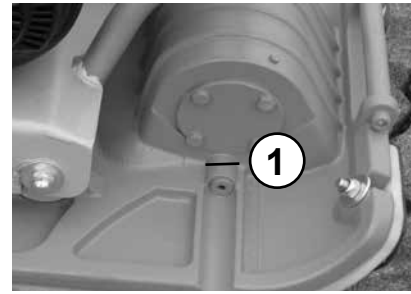
Remove the oil drain plug/filler plug (1) and drain oil.

Fill with oil as specified in the fill quantity table.
Screw in oil drain plug or filler plug.

 Ensure that the contact surfaces on the oil drain plug/filler plug and vibrator housing are clean.

 Select collection vessels large enough to prevent oil from spilling onto the ground. Dispose of waste oil in an environmentally friendly manner (regulation on waste oils).

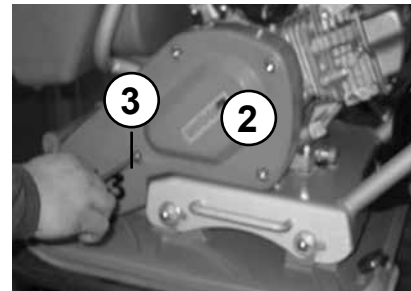
 Wipe up/off oil slick and oil residue and dispose of fuel-soaked cleaning cloths in an environmentally responsible manner.



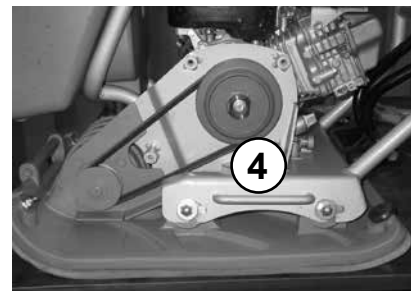
Checking the V-belt

Remove the V-belt guard (2).

To do this unscrew the screws (3).



Check the V-belt (4) for cracks, damaged flanks, and wear.
If there is excessive wear, replace the V-belt.



Operating fluids and fill levels

Assembly	Operating material Quality	Quantity CF 2-II Hd
Engine Engine oil	SAE 10 W 40 (-10 ~ +50 °C) API – CD CE or SHPD or CCMC – D2 – D3 – PD1	0.6 l
Fuel tank Gasoline	Unleaded gasoline	3.1 l
Vibrator	Engine oil 10 W 40/ 15 W 40	0.2 l

Troubleshooting

Fault	Possible cause	Remedy
Soil compactor does not start	Operating error	Execute start process as prescribed
	Lack of fuel	Check the fuel level
	Fuel filter fouled	Change the fuel filter
	Air filter fouled	Clean/change air filter cartridge
No vibration/ no forward motion or insufficient forward motion	Vibrator V-belt defective	Change vibrator V-belt

Actions to be taken before long-term storage (longer than 1 month)

Entire soil compactor	<ul style="list-style-type: none">– Clean thoroughly– Check for leaks– If there are leaks, correct defects
Fuel tank	<ul style="list-style-type: none">– Empty fuel and fill with clean fuel up to the lower edge of filler neck
Engine	<ul style="list-style-type: none">– Check oil level, if necessary fill to upper oil-level mark– Check air filter, clean, replace if necessary– Check fuel filter, change if necessary
All bare parts / gas lever / accelerator control cables / fastening bolts	<ul style="list-style-type: none">– Oil / grease



If the machine is to be stored for longer than six months, then contact the Weber service organization to discuss additional measures.



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