

Operating and Maintenance Manual



CR 3-II Hd

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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 about the assembled HONDA gasoline engine and find a spare-parts 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, and in compliance with the instructions in the operating manual. Malfunctions that impair safety must be eliminated without delay.

The CR 3-II Hd soil compactor is designed exclusively for compacting

- sand,
- gravel,
- 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 relative to the 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.).

Be particularly cautious 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 basic conditions are not satisfied, the owner is required to implement the protective measures identified as necessary to avoid CO poisoning during his own risk assessment. These may include:

- 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 spare parts** to ensure reliable and safe operation for maintenance or repair tasks.

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 there are no signs of safety-relevant defects.

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

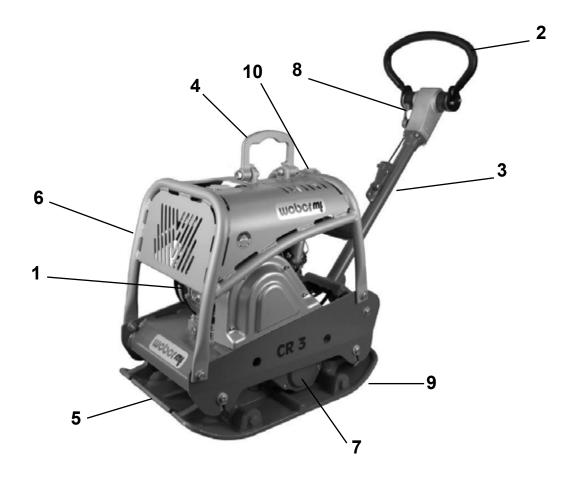


Safety shoes



Protective gloves

Graphic presentation



Overall view CR 3-II Hd

- 1 Engine
- 2 Drive lever
- 3 Guide bar
- 4 Lifting ring
- 5 Base plate
- 6 Protective frame
- 7 Exciter
- 8 Gas lever
- 9 Attachment plates10 Hearing protection (sticker)



Device description

The CR 3-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.

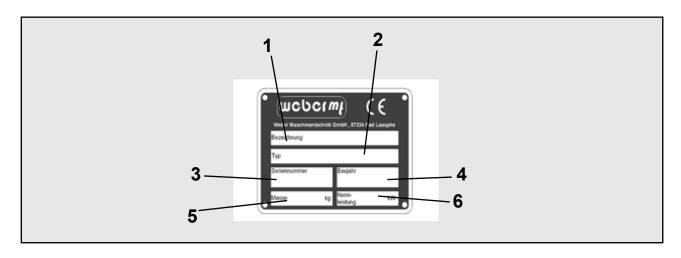
Use the gas lever to vary the engine speed between idle and full throttle.

Forward and reverse is variably controlled via the drive lever attached to the guide bar.

Technical data

	CR 3-II Hd
Weight	
Operating weight CECE in kg (basic device)	203
Dimensions	
Overall length (in mm)	1350
Overall width/with attachment plates (in mm)	500/600/700
Height with folded guide bar (in mm)	1060
Base plate length (base in mm)	350
Pressure surface (in mm)	500 x 350
Drive	
Engine manufacturer	Honda
Туре	GX 270
Performance at operating speed in accordance with ISO 3046-1 (kW)	5.1
Combustion process	4-stroke gasoline
Operating speed (1/min)	3000
Operating speed (ground-dependent in m/min)	20
Incline capacity (soil-dependent, in %)	35
Area capacity/with attachment plates (in m²/h)	585/702/819
Vibration	
System	Two-wave vibrator
Drive concept	Mechanical
Frequency (in Hz)	80
Centrifugal force (in kN)	35

	CR 3-II Hd
Noise emissions in accordance with 2000/14/EC	
Sound pressure level L _{PA} ascertained in accordance with EN 500, in dB (A)	98
Sound power level L_{WA} ascertained in accordance with EN ISO 3744 and EN 500, in dB (A)	108
Vibration values	
Root-mean-square acceleration value for hand-arm vibration ascertained in accordance with EN 500 in m/s²	2.0
In accordance with directive 2006/42/EC, complying with the vibration values is the owner's responsibility.	



1 Description	2 TYPE
3 Serial number	4 Year of construction
5 Mass	6 Rated power kW

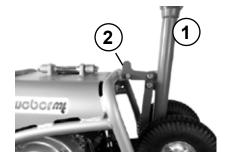
Activities prior to starting work

Transporting



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

Arrest the guide bar (1) with the holder (2).



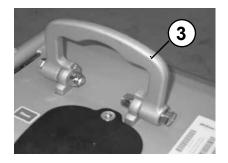
Fit the crane hook into the lifting ring (3) and lift the machine onto the desired means of transport.



Only use lifting machines with a minimum bearing capacity of 300 kg.

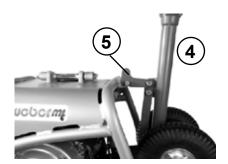


Do not step under suspended loads.



Transporting with undercarriage

Arrest the guide bar (4) with the holder (5).



Tilt the machine forward.



Danger of tipping – pay attention to the machine weight.

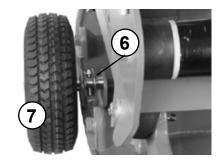


Pull the locking pin (6) out of the holder and remove the wheel (7).



Fasten the wheel (7) on the base plate with the locking pin (6).

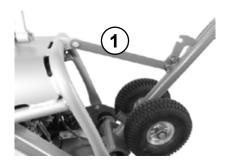
Repeat the procedure for the second side.



Set the machine on the undercarriage.



Bring the guide bar into movement position and arrest it with the movement safeguard (1).



Tilt the machine to the rear and guide it via the guide bar.

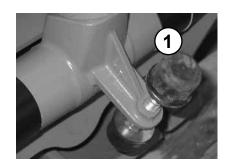


Pay attention to the tire pressure of the undercarriage.



Adjusting the guide bar

Adjust the desired work height of the guide bar with the set screw (1).



Checking the engine oil level

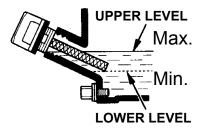
Unscrew and remove the oil dip stick from the crankcase.



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



Stop operating the engine immediately when the oil level reaches the min. mark and top up oil until it reaches the max. mark. Risk of engine damage if the oil level drops below the minimum oil level in unfavorable operating conditions.



Checking the fuel level

Open and remove the gas cap, check the level, if necessary top up to the lower edge of the filler neck with clean fuel in accordance with the specification.



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

Fire, naked light, and smoking is forbidden!

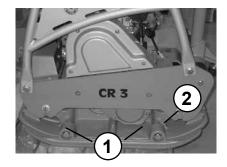
Checking the hydraulic oil level

Check the hydraulic oil level when the machine is at operating temperature. The guide bar must be in the transport position – i.e. folded up. The correct oil level is reached when the oil is in the middle of the view glass.



Mounting the attachment plates

Tighten the screws (1) of the attachment plates (2) with a torque of 310 Nm.



Installing the protective mat

Fasten the protective mat with holder, screws, spring-lock washers and nuts on the base plate front and rear.

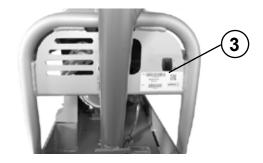


Ensure that the protective mat rests under the base plate.



Starting

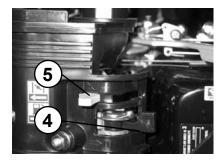
Place the short-circuit button (3) in position 1.



Slide the lever of the fuel cock (4) to the right. Slide the choke lever (5) to the left (close).



After the engine has warmed up, slide the choke lever (5) to the right (open).



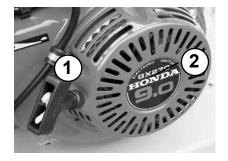
Bring the gas lever into full-throttle position.



Slowly tighten the handle (1) of the reversing starter (2) until resistance is noticeable.

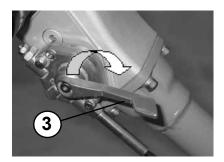
Allow the handle (1) to slide back into the initial position, and then forcefully and completely pull it all the way through with both hands.

Allow the engine to warm up for a few minutes.



Compacting

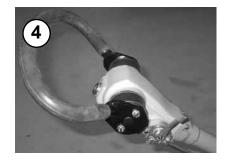
Bring the gas lever (3) into full-throttle position.



Control drive speed and direction of travel with the handle (4).

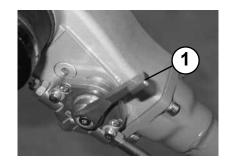


Only run machine within reach of the guide bar.

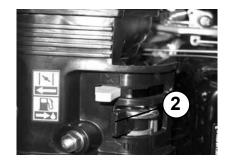


Shutting down

Bring the gas lever (1) into idle position.

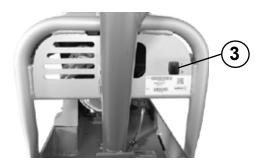


Move the fuel cock (2) to the left (close).



Place the short-circuit button (3) in position 0.

- During breaks even if they are short the machine must be shut down.
- Parked devices that represent an obstacle must be safeguarded via conspicuous measures.



Maintenance overview

Maintenance interval	Maintenance point	Maintenance activity
After the first 25 operating hours	Engine	- 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
		- Change the fuel filter
		- Change the oil filter
	Gearshift	- Check the oil level
Every 150 operating hours/every year	Gearshift	- Change oil
, and the same of	Exciter	- Change oil
Every 250 operating hours	Engine	Check valve play; adjust if necessary

- The regulations of the engine manufacturer must be complied with in addition to the above maintenance overview!
- Tasks must be executed using proper tools, and the safety instructions of this operating and maintenance manual must be complied with for all tasks.
- 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

Changing the engine oil

Remove oil dip stick.

Screw the oil drain pipe (1) onto the drain valve and drain the oil.



Only drain engine oil when at operating temperature.

After emptying completely, unscrew the oil drain pipe from the drain valve and fill with oil in accordance with the specification.



Risk of scalding due to hot oil.



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

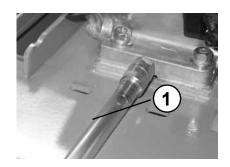


If lubricating oils and fuel come into contact with skin, they can cause skin cancer. Upon contact with the skin, clean affected skin with suitable cleaning agent without delay.



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





Cleaning/changing air filter cartridge

Unscrew the air filter cover (2).



Remove the air filter insert 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 screw (1) and drain oil.

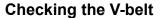
To fill – tilt the machine slightly and fill with fresh oil through the drain opening in accordance with the fill level table.



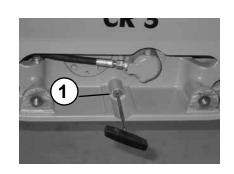
Select collection vessels large enough to prevent oil from spilling onto the ground. Dispose of waste oil in an environmentally friendly manner (regulation on waste oils).

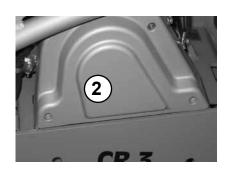


Wipe up/off oil slick and oil residue and dispose of fuel-soaked cleaning cloths in an environmentally responsible manner.



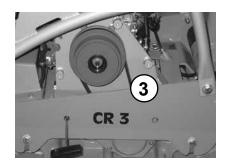
Remove the V-belt guard (2).





Check the V-belt (3) for cracks, damaged flanks, and wear.

If there is excessive wear – replace the V-belt as specified in the repair manual.



Operating fluids and fill levels

Assembly	Operating material	Quantity
	Summer Winter	CR 3-II Hd
	Quality	
Engine		
Engine oil	SAE 10 W 40	0.91
	(-10 ~ +50 °C)	
	API – CD CE-CF-CG	
	or SHPD	
	or CCMC – D4 – D5 – PD2	
Fuel tank	Unleaded gasoline	3.0 l
Vibrator	Fully-synthetic transmission fluid	0.75 l
	API GL-5/GL-4	
	First filling Fuchs Titan SINTOPOID	
	LS SAE 75W-90	
Gearshift	Transmission fluid DEXRON II-D-ATF	As
	First filling	necessary
	Fuchs Titan ATF 3000	
	or equivalent	

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
Soil compactor does not switch	Wrong hydraulic oil level in the guide bar	Check oil level Correct oil level

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

- Clean thoroughly
l cross are a garaj
Check for leaks
If there are leaks, rectify identified defects
defects
Empty fuel and fill with clean
fuel up to the lower edge of
filler neck
Check oil level, if necessary
fill to upper oil-level mark
- Check air filter, clean, replace if
necessary
Check fuel filter, change if
necessary
Oil / grapps
- Oil/grease
Remove battery
- Check acid level; if it is too low,
top up with distilled water up to
top up with distilled water up to
top up with distilled water up to max. mark of the battery
top up with distilled water up to max. mark of the battery - Store above freezing in a storage



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





youtube.com/MyWeberMT



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085101104-104 / CR 3-II Hd_2020_03_EN Original instructions