

# Operating and Maintenance Manual



## SRV 620

Honda GXR 120



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## **Introduction**

This operating and maintenance manual is designed to facilitate familiarization with your tamper, and enable you to maintain the tamper and use it in accordance with the proper application possibilities. 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 tamper.

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

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

You can obtain information on the assembled Honda petrol engine and find a spare-part list for it at **[www.honda-engines-eu.com](http://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, non-compliance results 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 tamper should only be used in 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 SRV 620 tamper is designed exclusively for compacting

- sand
- gravel
- crushed rock
- semi-cohesive mixed material.

Any other use of the tamper 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

Tampers should only be operated by suitable personnel of at least 18 years of age. Operators must be instructed in how to guide the tamper by the owner or by owner's assigned personnel.





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

 Unauthorized persons are forbidden from being in the area of the tamper 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 tamper 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 tamper 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 tamper must be checked for apparent defects. If there are apparent defects then operation of the tamper must be stopped immediately and the responsible person must be informed. Prior to restarting, tamper malfunctions that have occurred must be corrected.

### 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.

Never operate the engine in enclosed areas or in areas that are poorly ventilated (tunnels, caves, etc.) Exercise particular caution when operating the engine in the vicinity of people and livestock.

### Maintenance and repair work

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

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


For repair, maintenance, or inspection work the engine of the tamper 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 tamper must be placed on a level and stable substrate and must be secured from rolling off or tipping over.

Heavy components and subassemblies must be secured on hoisting machines with adequate bearing capacity when they are replaced. Ensure that no hazard exists related to the raised components or subassemblies.

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

Tampers must be inspected in accordance with appropriate 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 tamper 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

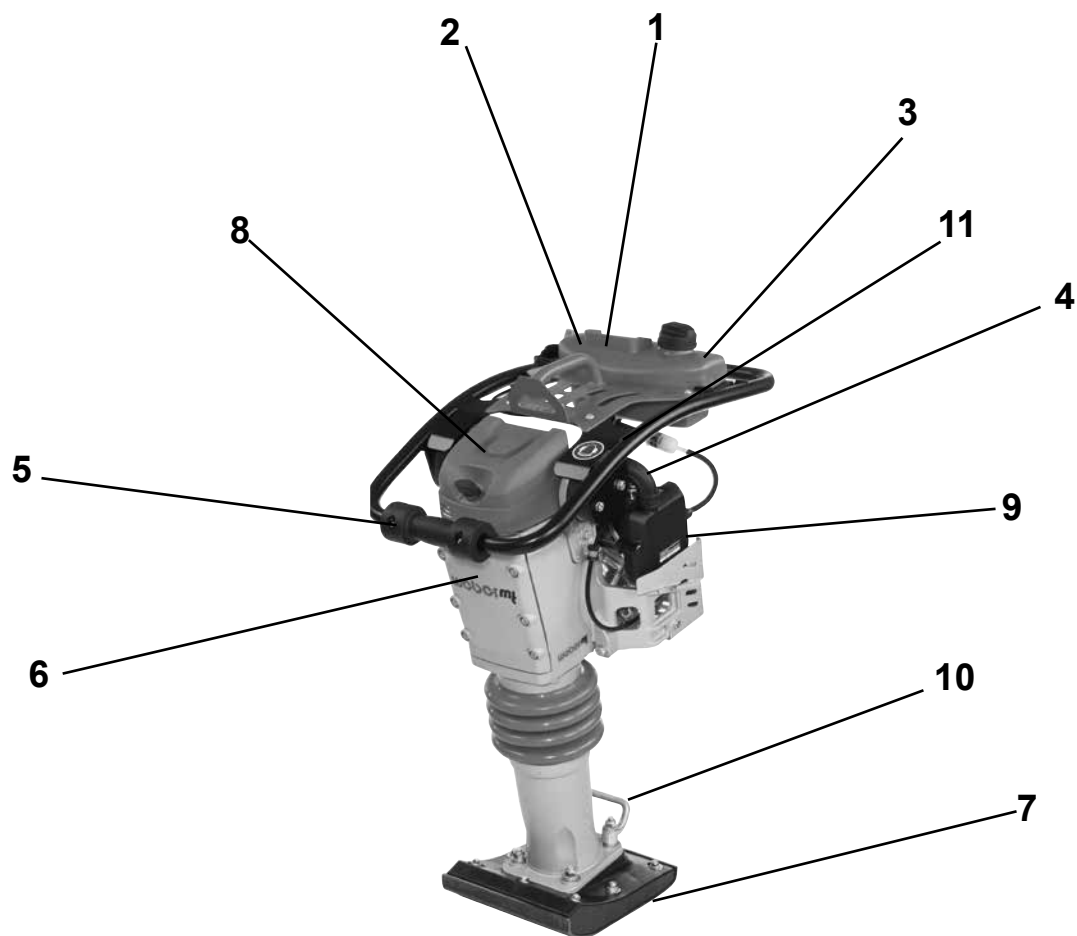


Safety shoes




Protective gloves

## Graphic presentation



### Total overview SRV 620

- |   |                    |    |                                                                                                                      |
|---|--------------------|----|----------------------------------------------------------------------------------------------------------------------|
| 1 | Fuel tank          | 6  | Tamping system                                                                                                       |
| 2 | Gas lever          | 7  | Tamping foot                                                                                                         |
| 3 | Hand guide bracket | 8  | Main filter                                                                                                          |
| 4 | Engine             | 9  | Sub filter                                                                                                           |
| 5 | Transport rollers  | 10 | Handle                                                                                                               |
|   |                    | 11 | Wear ear protection (Stickers)  |



**Device description**

The series SRV 620 tamper is used for road-building, canal construction, pipe laying and landscaping compaction tasks.

**Drive**

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

Force is transmitted via the centrifugal clutch directly to the tamping system. The compaction work is performed by the tamping foot.

The engine is protected by a double filter system consisting of an oversized main air filter and an additional air filter.


**Operation**

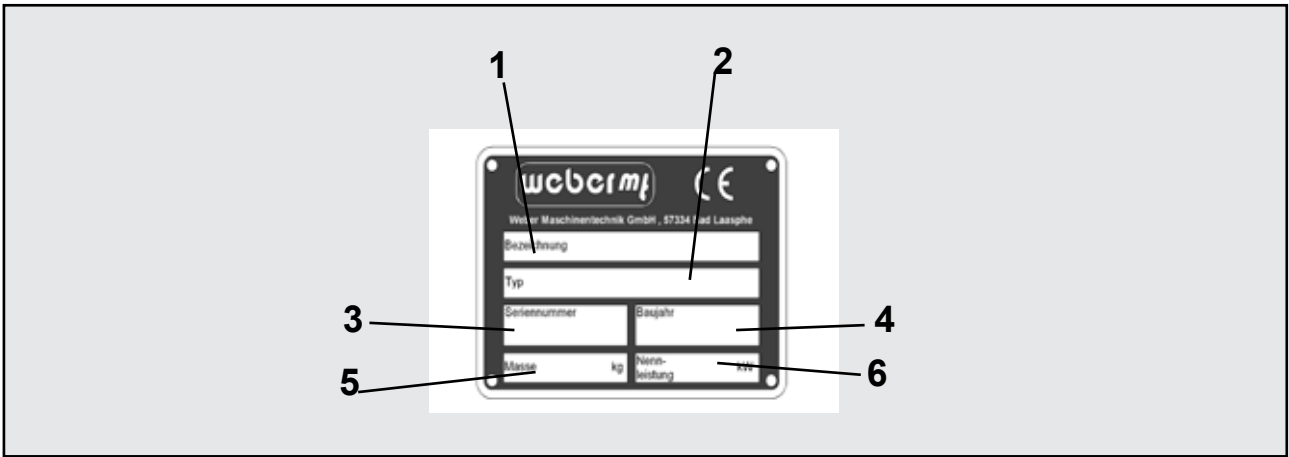
Start the Honda gasoline engine with the attached reversing starter.

After starting, the stamping system starts to vibrate via the centrifugal clutch which is attached to the engine. Use the gas lever to vary the engine speed between idle speed and full-throttle speed. For easier transport the tamper can be pushed onto or into a means of transport.

## Technical data

	SRV 620
<b>Weight</b>	
Operating weight CECE in kg	66
<b>Dimensions</b>	
Overall length in (in mm)	740
Overall width in (in mm)	365
Height (in mm)	1035
Tamping foot width (in mm)	280
Impact rate (/min)	700
Stroke (in mm)	73,9
Stroke force	18,2 kN
<b>Drive</b>	
Engine manufacturer	Honda
Type	GXR 120
Performance at operating speed in accordance with ISO 3046-1 (kW)	2,6
Combustion process	4-stroke gasoline
Operating speed (1/min)	4100
Fuel	Gasoline unleaded

	SRV 620
<b>Noise emissions in accordance with 2000/14/EC</b>	
Sound pressure level $L_{PA}$ ascertained in accordance with EN 500, in dB (A)	98
Sound power level $L_{PA}$ ascertained in accordance with EN ISO 3744 and EN 500, in dB (A)	105
<b>Vibration values</b>	
Root-mean-square acceleration value for hand-arm vibration ascertained in accordance with EN 500 in $m/s^2$	8,0
 In accordance with directive 2006/42/EC, complying with the vibration values is the owner's responsibility.	



**1 Description**

.....

**3 Serial-Number**

.....

**5 Mass**

**2 TYPE**

.....


**4 Year of construction**

.....

**6 Rated power KW**


## Activities prior to starting work


### Transport

-  When transporting the tamper on a vehicle, secure it with suitable restraints.

### Loading with crane

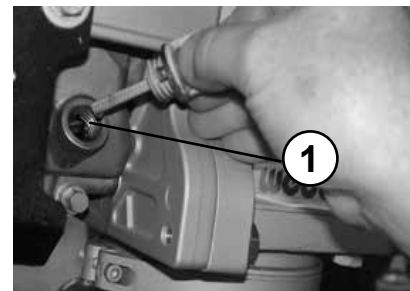
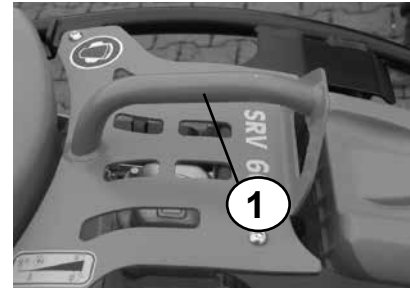
Fit the crane hook into the lifting ring (1) and lift the machine onto the desired means of transport.

-  Only use lifting machines with a minimum bearing capacity of 100 kg.

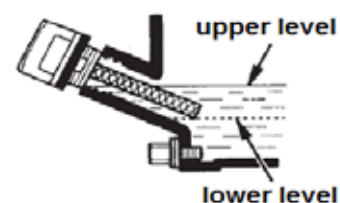
-  Do not step under suspended loads.

### Check the engine oil level

Pull the oil dip stick (1) out of the crankcase.




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





### Check the fuel level

Open and remove the gas cap (1), check the level, if necessary top off to the lower edge of the filler neck with clean fuel in accordance with the specification.

-  Carefully wipe up spilled fuel.

-  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.

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

-  Fire, naked light, and smoking is forbidden!

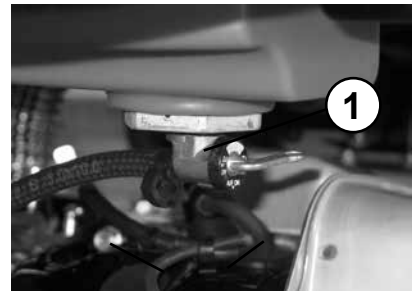


## Starting

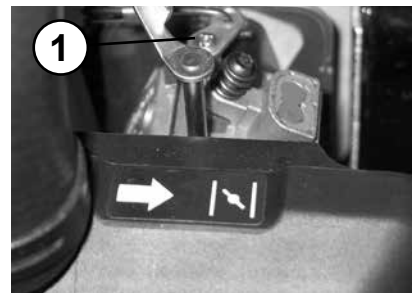
- ⚠ **After horizontal transport: Bring tamper into a vertical position and wait several minutes until the engine oil has collected in the lower area of the crankcase.**

Bring the gas lever into full-throttle lock-in position.

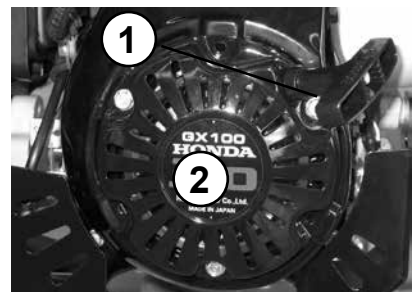
Open the fuel cock (1).



Push the choke lever (1) to the right (close).



Slowly tighten the handle (1) of the reversing starter (2) until resistance is noticeable. Allow the handle (1) to glide back into the initial position, and then forcefully and completely pull it through with both hands. Allow the engine to warm up for a few minutes.



- ⚠ After the engine has warmed up, slide the choke lever to the left (open).

⚠ When starting in enclosed spaces ensure adequate ventilation – danger of suffocation.


- ⚠ Never use any starter spray.




- ⚠ The engine is equipped with an oil monitoring system. If the LED (1) is illuminated during the start process, you must interrupt the start process and check the oil level. Top off with oil as specified if the oil level is too low.





## Tamping

Bring the gas lever into the   lock-in position.


 Only run machine within reach of the manual guidance rod (1).

 Compacting is only permissible at gas lever position   there is an increase level of wear in the slip range of the centrifugal clutch.

 At obstructions (walls, pits, etc.) ensure that no one can be caught between the machine and the obstruction; or ensure that the machine does not slip into the pit.

 Unauthorized persons are forbidden from being in the area of the tamper during the compacting process.


## Shutting down


 Do not switch off the engine under full load; let engine run idle for a few minutes.

Bring the gas lever to the “min.” (1) lock-in position.

Close the fuel cock (1).

To shut off the engine push the gas lever back beyond the idle lock-in setting (0/OFF)


 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 10 operating hours	Engine	<ul style="list-style-type: none"> <li>- Change engine oil</li> <li>- Check valve clearance, adjust if necessary</li> <li>- Re-tighten all accessible threaded connections</li> </ul>
Every 50 operating hours/every 6 months	Main filter Engine	<ul style="list-style-type: none"> <li>- Clean air filter insert, check for damage, replace if necessary</li> <li>- Change engine oil</li> <li>- Change the fuel filter</li> </ul>
Every 150 operating hours	Sub filter Engine	<ul style="list-style-type: none"> <li>- Clean sub filter, check for damage, replace if necessary</li> <li>- Check valve clearance, adjust if necessary</li> </ul>
Every 150 operating hours/every year	Tamping system	<ul style="list-style-type: none"> <li>- Change oil</li> </ul>

 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 engine oil


Remove the oil dip stick (1).


Open the drain plug (2) of the engine and drain oil.

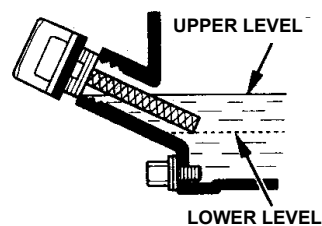
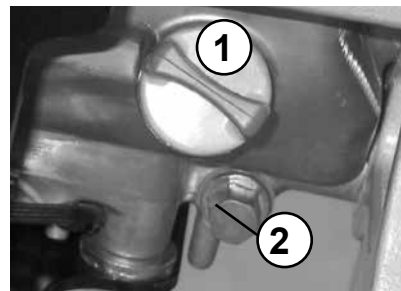
 Only drain engine oil when at operating temperature.

Screw in the oil drain plug (2) with new seal and top off with oil as specified.

 Danger of scalding due to hot oil.

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


 Check the oil fill level with the oil dip stick again.




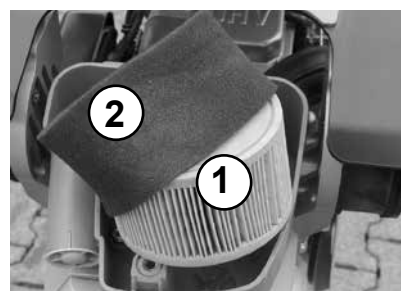
### Clean/change main air filter cartridge

Unscrew the air filter cover (1).

Remove the air filter insert (1) and the air filter fleece (2) from the air filter enclosure or remove air filter cover. Clean air filter insert and air filter fleece as specified by the engine manufacturer if there is damage or if they are extremely dirty.

 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.





## Clean/change sub filter cartridge

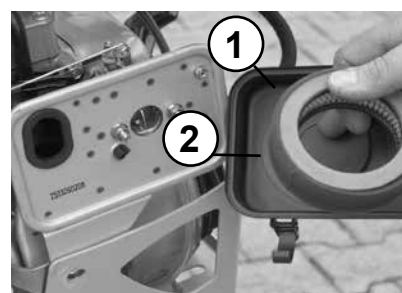
Remove protection (1).



Air filter cover (1) remove.

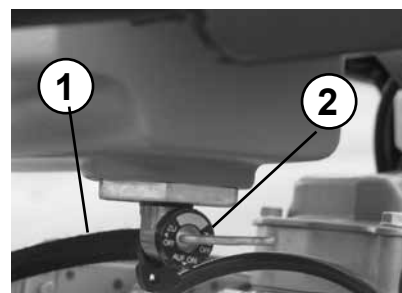


Remove the air filter insert (1) and the air filter fleece (2) from the air filter enclosure or remove air filter cover. Clean air filter insert and air filter fleece as specified by the engine manufacturer, if there is damage or or extreme fouling replace.



## Change the fuel filter


Pull the fuel line (1) off of the fuel cock (2).





Unscrew the fuel cock, including fuel filter (1) out of the fuel tank.

Clean the fuel filter.



 Replace fuel filter if damaged.

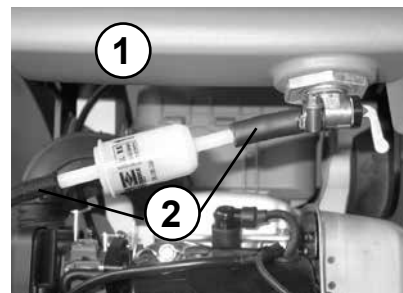
 For work at the fuel system, have a suitable fire-extinguishing agent at the ready.

 Fire, naked light, and smoking is forbidden!

## Change the fuel filter

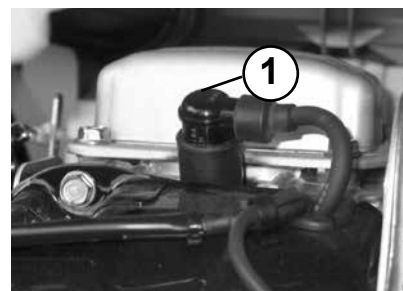
Pull the fuel line (1) off of the fuel filter (2).

Replace fuel filter.




## Adjusting/replacing the spark plug


Pull off the spark plug connector (1) and unscrew spark plug.

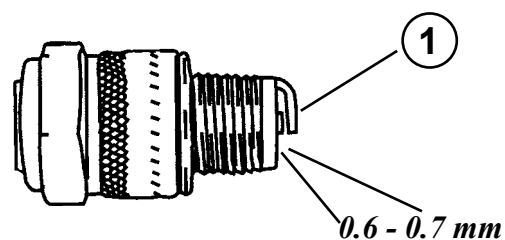


Clean the electrode (1) of the spark plug.  
Measure the electrode air gap (1), the gap should be 0.6–0.7 mm.

Correct the electrode air gap or replace the spark plug if necessary.

 Only use spark plugs with the correct thermal value.

 This work may only be carried out when the engine is cold.

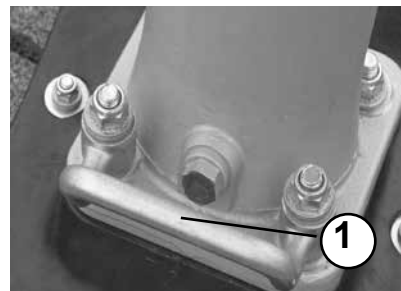


## Changing the oil in the tamping system

Unscrew the screw plug (1) from the fill opening.

Tilt the tamper forward slightly and let the old oil drain into a suitable collection container. Tilt the tamper back and fill oil in as specified.

Clean the screw plug and screw it into the fill opening.



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

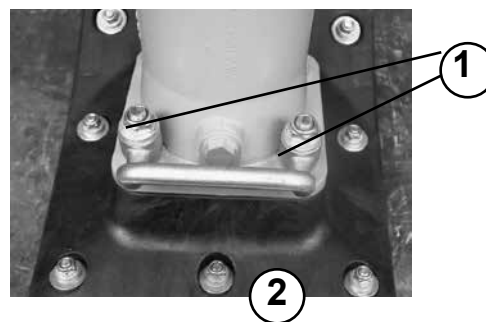


Dispose of oils, greases, cloths soaked in oil, and replaced parts with oil on them in an environmentally friendly manner.

## Changing the tamping foot

Unscrew the 4 nuts (1)

Lift the tamping foot (2) off of the tamper and attach a new tamping foot.



When mounting the new tamping foot the nuts (1) must be tightened with a torque of 35 Nm.



Mount the fastening nuts of the tamping foot using the plate springs as shown in the adjacent illustration.



Mounting arrangement of the plate springs

## Operating fluids and fill levels

Assembly	Operating material		SRV 620
	Summer	Winter	
	Quality		
<b>Engine</b> Engine oil	SAE 10 W 40		0,3 L
Gasoline	Unleaded gasoline in accordance with DIN 51607		3,0 L
<b>Tamper lower part</b>	Hydraulicouil HVLPD 68		1,0 L

## Troubleshooting

Fault	Possible cause	Remedy
<b>Tamper does not start</b>	Operating error Lack of fuel Air filter fouled Fuel filter fouled Spark plug fouled Oil level too low	Execute the start process as prescribed Check the fuel level Clean/change air filter Change the fuel filter Clean, adjust, replace the spark plug Top off with oil
<b>Engine runs but it does not reach full speed</b> <b>or engine runs but stops after a short time</b>	The fuel line is incorrectly mounted Air filter fouled Fuel filter fouled Spark plug fouled Fuel cock closed	Check the mounting of the fuel line Clean/change air filter Change the fuel filter Clean, adjust, replace the spark plug Open fuel cock
<b>Engine runs at full rpm, tamper does not tamp or tamps inadequately</b> <b>Unclean compaction pattern</b>	Centrifugal clutch is defective Tamping foot is worn	Repair Change the tamping foot

## Measures to be taken if stored for long periods (longer than one month)

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



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





## Weber Maschinentechnik GmbH

**For problems, questions and further information refer to one of the following addresses:**

in Germany	WEBER Maschinentechnik GmbH Im Boden 5 – 8, 10 57329 Bad Laasphe - Rückershausen	Telefon Telefax  E-Mail	+ 49 (0) 2754 - 398-0 + 49 (0) 2754 - 398101-switchboard + 49 (0) 2754 - 398102- spare parts- directlinie  g.voelkel@webermt.de
in France	WEBER Technologie SARL 14' rue d' Arsonval 69680 Chassieu	Telefon Telefax  E-Mail	+ 33 (0) 472 -791020 + 33 (0) 472 -791021  france@webermt.com
in Poland	WEBER Maschinentechnik Sp. zo.o. Ul. Jeziorki 86 02-863 Warszawa	Telefon  Telefax  E-Mail	+ 48 (0) 22 - 739 70 - 80 + 48 (0) 22 - 739 70 - 81 + 48 (0) 22 - 739 70 – 82  info@webermt.com.pl
In Tschechien	WEBER MT s.r.o. V Piskovne 2054 278 01 Kralupy nad Vitavou	Telefon   E-Mail	+ 42 (0) 776 222 216 + 42 (0) 776 222 261  info@webermt.cz
in USA and Canada	WEBER MT 4717 Broadmoor Ave. SE Suite B Grand Rapids, MI 49512	Telefon Telefax  E-Mail	+ 1(207) - 947 - 4990 + 1(207) - 947 – 5452  sales@webermt.us service@webermt.us

> **Vibratory plates**

> **Vibratory tampers**

> **Vibratory compactors**

> **Pavement saws**

> **Poker vibrators and converters**



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