Our associates will ensure the tool works properly before you leave the store. If you experience issues with the tool while completing your project, simply bring it back to the Tool Rental Center to get a replacement. If you purchase Damage Protection at the time of your rental, you are not responsible for repair costs for tools that break due to normal use.

Need it? Chances are, we've got it!
HOUST
Hardware & Rentals
homegrown since 1932
woodstock, new york

AMMANN

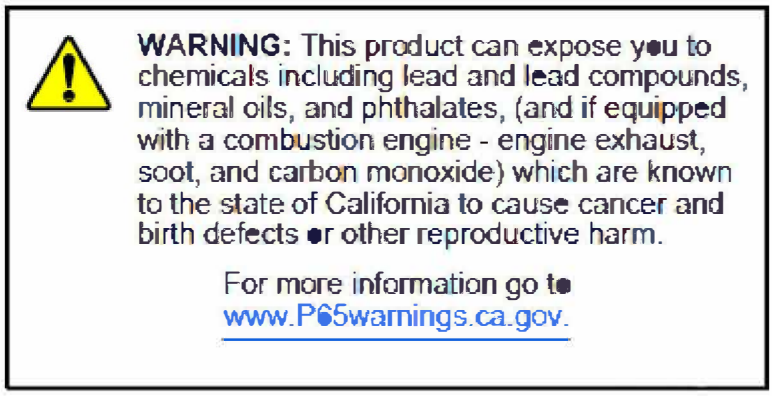
OPERATION AND MAINTENANCE MANUAL

Forward Plate Compactor

FP10.33 S/N: B5YE*3038582 & Above
FP10.33 S/N: J58*3028702 - 3059554

7480163enUS(B)
April 2024

Printed in USA
Original Instructions



Manufacturer:

North America
Bobcat Company
250 E. Beaton Drive
West Fargo, ND 58078
USA

Information

Nothing contained in this document is intended to extend any promise, warranty, or representation, expressed or implied, regarding the Bobcat® products described herein. Any such warranties or other terms and conditions of sale of products shall be in accordance with the standard terms and conditions of sale for such products, which are available upon request.

This manual contains instructions and technical data to cover all routine operation and scheduled maintenance tasks by operation and maintenance staff. Major overhauls are outside the scope of this manual and should be referred to an authorized Bobcat Dealer.
All components should be:

- Of good quality and procured from a reputable manufacturer.

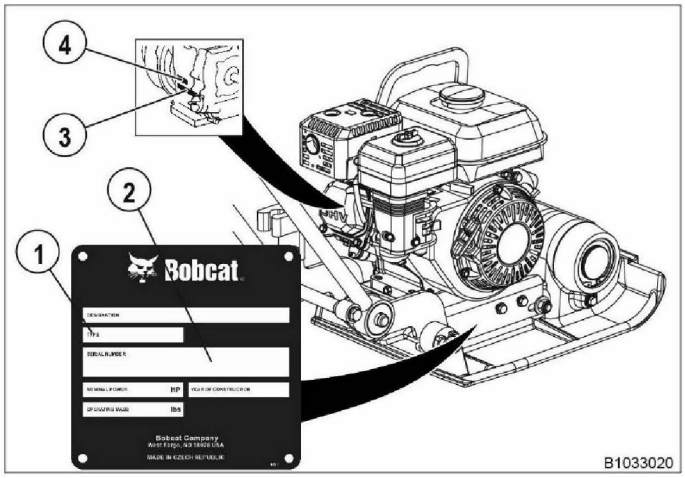
The information contained in this manual is based on machines manufactured up until the time of publication, every effort was made to ensure the accuracy and adequacy of the contents. Bobcat reserves the right to change any portion of this information without notice.

This manual provides information and procedures to safely operate and maintain the above Bobcat model(s). For your own safety and to reduce the risk of injury, carefully read, understand, and observe all instructions and safety information described in this manual.

You, as the customer, are expected to provide certain service and maintenance items. It is very important that the minimum service and maintenance requirements explained in this manual be performed at the required intervals. Exceeding these intervals may reduce the reliability of your machine.

Please enter (data on machine type plate)

1. Mach.-type: _____
2. Mach.-No.: _____
3. Engine-type: _____
4. Engine-No.: _____



Foreword

Information (Cont.)

This Bobcat machine has been built according to the state of the art in compliance with the pertinent rules. Nevertheless, these machines can still constitute a hazard to persons and property if:

- not used for the intended purpose,
- not operated by suitably qualified and instructed personnel,
- modified or converted in an improper manner,
- the pertinent safety regulations are not observed

For this reason, any person entrusted with the operation, maintenance or repair of the machine is obliged to read and follow the operating instructions and to observe the safety regulations. If necessary, it must be confirmed by the signature of the company using the machine. Furthermore, the following must be made known and observed:

- pertinent regulations for the prevention of accidents,
- generally recognized safety rules,
- country-specific regulations

Normal Use

The machine is suitable for compaction jobs in civil works and road construction. Ground materials such as sand, gravel, sludge, crushed stone, asphalt, and composite sett paving can be compacted.

Improper Use

The machine can constitute hazards if not used by instructed personnel or for other than the intended purpose.
Weighing down and riding on the machine is prohibted.

The machine must not be used on slopes with a gradient of more than 20°.
Do not use the machine on hard concrete, set asphaltic surfaces, highly frozen or unstable surfaces.

Conversions And Modifications To The Machine

Unauthorized modifications and conversion of the machine are not permitted for safety reasons. Spare parts and special equipment not delivered by Bobcat are also not approved by Bobcat. The installation and/or the use of such parts can also have a detrimental effect on the operating safety.

The manufacturer disclaims all liability for any damage resulting from the use of non-original parts or special equipment.

Safety

Safety Information In The Operating Instructions

The following signs and designations are used in the manual to designate instructions of particular importance:

Is used to indicate an immediate hazardous situation that, if not prevented, will cause severe injury or death.

Is used to indicate a potentially hazardous situation that, if not prevented, may cause injury or death.

Is used to indicate possible environmental impact, which, if not prevented, may cause damage to the local or global environment.

Is used to indicate a possible risk of property damage and/or indicates additional information for the user, such as operating tips or cross-references.

Transporting The Machine

Always shut off the engine when loading and transporting.

Only load and transport the machine as specified in the operating instructions.

Attach approved lifting devices or tie down straps on the points provided on the machine.

Secure the machine on transport vehicles to prevent it from rolling, slipping, and tipping.

Starting The Machine

Prior To Starting

Familiarize yourself with the operating and control elements and the mode of operation of the machine and the working environment. This includes obstacles in the working area, loading capacity of the ground and the necessary safety provisions.

Use personal protective equipment (safety footwear, hearing protection, other personal protective equipment if required).
Check to ensure that all safety devices are firmly in place.
Do not start the machine if instruments or control devices are faulty.

Starting

For machines with hand start, only use the safety cranks tested by the manufacturer, and precisely follow the operating instructions of the engine manufacturer.

The hand crank must be turned with maximum force until the engine starts, otherwise the crank can rebound.

Follow the starting and stopping procedures specified in the operating.

Starting and operation of the machine in potentially explosive atmospheres is prohibited!

Starting In Enclosed Spaces, Tunnels, Mines, Or Deep Ditches

Engine exhaust gas is highly dangerous!

For this reason, when operating the machine in enclosed spaces, tunnels, mines, or deep ditches, it is important to ensure that there is sufficient air to breathe.

Machine Control

Operating devices which adjust themselves automatically when released in normal use, must not be locked.

Check protective devices and brakes for proper functioning prior to operation.
Use caution when reversing, particularly on the edges and banks of ditches, as well as in front of obstacles.

Always keep a safe distance away from the edges and banks of ditches and refrain from any actions which could cause the machine to tip over!

Always control the machine, so that hand injuries are avoided through contact with hard objects.
Always move up slopes carefully in a direct path.

Reverse up steep slopes to prevent the machine from tipping over on to the machine operator.

If faults on the safety devices or other faults that may impact the safe operation of the machine are noticed, operation of the machine must be stopped immediately, and repair the faults.

Check the effect of the vibrations on the buildings and pipes when compacting near buildings or above pipelines. Stop work if necessary.

Parking The Machine

Park the machine on a firm and level surface.

Shutdown the drive and secure it to prevent accidental movement and unauthorized use. Close the fuel valve. Do not place or store equipment the transport wheels. The transport wheels are intended only for transportation purposes.

Filling Fuel

Only fill fuel with the engine switched off.

Do not fill near open flames and do not smoke.

Do not spill any fuel, collect leaking fuel in a suitable container, and prevent fuel from seeping into the soil.

The filler cap must be tight.

Leaking fuel tanks must be replaced immediately.

Maintenance And Repairs

Observe the maintenance, inspection, adjustments, and intervals specified in the operating instructions, as well as the information for part replacement.

Maintenance work must be completed only by qualified and authorized persons.

Switch off the drive before completing maintenance or repairs.

Only carry out maintenance and repairs when the machine is parked on a firm and level surface and is secured to prevent it from rolling.

When changing larger assemblies and individual components, only use hoisting and lifting gear with approved loading capacity that are in good working condition. Attach and secure parts on hoisting carefully!

Replacement parts must comply with the technical requirements of the manufacturer. Only use genuine Bobcat parts.

Testing

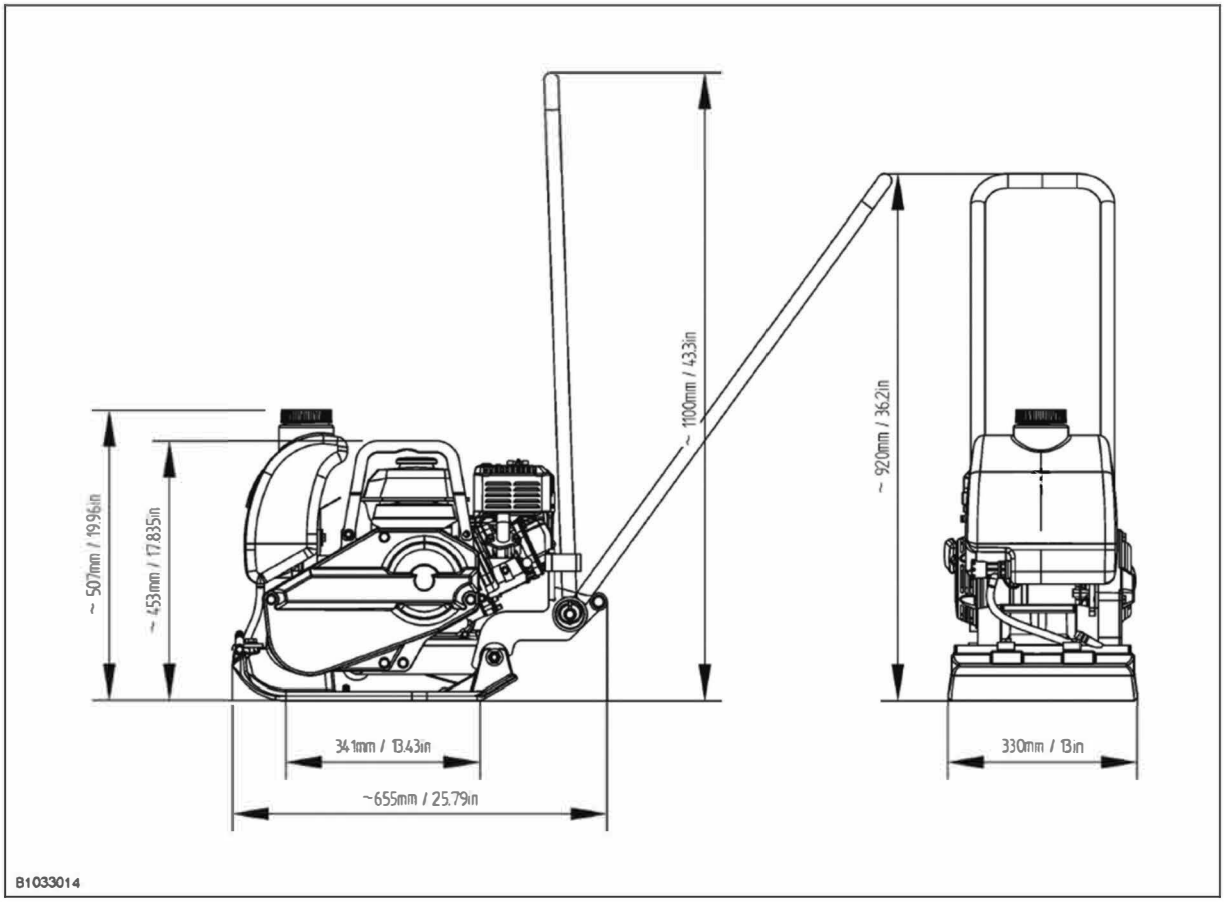
Check your machine for missing, worn, or damaged parts before operating. See maintenance schedule for other maintenance requirements.

Disposal Of The Machine

The owner is required to comply with national regulations and laws on wastes and protection of environment.

The manufacturer is not responsible for damages to persons or environment in events of failing to comply with regulations.

3. Technical Data



	FP10.33
1. Dimensions	
Working width	330 mm (13 in)
2. Weights	
Operating weight	54 kg (119.05 lb)
3. Drive	
Engine-type	HONDA GX120
Type of construction	1-cyl-4-stroke gasoline
Power	2.6 kW (3.5 hp)
Engine speed	3600 rpm
Engine Speed at shift in of centrifugal clutch	2000 rpm
Cooling	Air
Fuel capacity	2.5 l (0.660 US gal)
Fuel consumption	0.8 l/h (0.211 US gal/h)
Max. sloping position	20°
Max. grade ability	30 %
Drive	centrifugal clutch and V-belt

Technical Data

	FP10.33
4. Speed	
Speed	maximum 22 m/min (72.18 fpm)
5. Vibration	
Vibration force	10.5 kN
Vibration frequency	100 Hz
6. Working surface	
Working surface	0.11 m^2 (1.184 ft^2)
7. Spec. surface pressure	
Spec. surface pressure	9.3 N/cm^2 (13.488 psi)
8. Optional equipment	
Water tank 5 l (1.32 US gal)	
9. Noise and Vibration data	
The following noise and vibration data according to EC Machinery Directive in the version (2006/42/EC), was determined considering the following standards and directives. In operational use, values can deviate depending on the prevailing conditions.	
9.1 Noise data1)	
The noise data specified in Appendix 1, sub-clause 1.7.4.u of the EC Machinery Directive is for:	
The sound pressure level at the operator place is LPA	89 dB
Measured sound power level $L_{WA,m}$	102 dB
Guaranteed sound power level $L_{WA,g}$	105 dB
The noise values were determined considering the following directives and standards: Directive 2000/14/EC / EN ISO 3744 / EN 500-4	
9.2 Vibration data	
Hand/arm vibration values according to Appendix 1, sub-clause 3.6.3.1 of the EC Machinery Directive:	
Total vibration value of the acceleration a_{hv}	11.0 m/s^2
Uncertainty K	1.0 m/s^2
The acceleration value was determined considering the following directives and standards: EN 500-4 / DIN EN ISO 5349	

1) Since the permissible noise rating level of 85 dB(A) can be exceeded with this machine, the operator must wear suitable hearing protection.

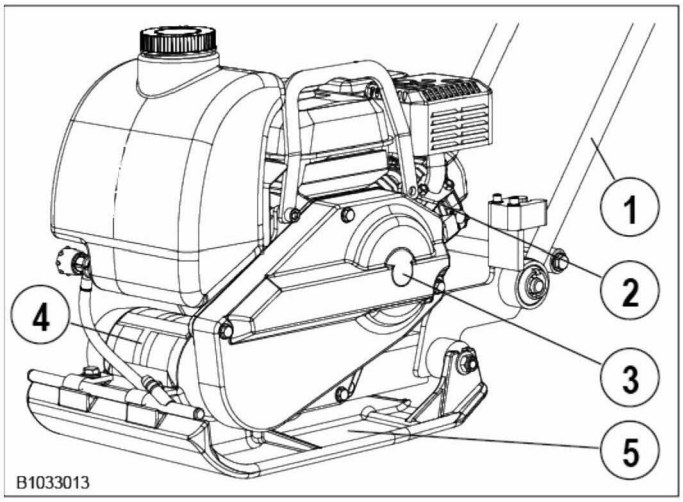
Specification(s) are provided for comparison purposes only and are subject to change without notice.

Operation

3.1 Description

Forward Plate Compactors are forward moving vibratory plates that uses a traction-oscillating system. The engine drives the vibrator using a centrifugal clutch and V-belt.
The machine is suitable for the compaction of sand, gravel (possibly coarse gravel), lean concrete, asphaltic bitumen-coated gravel (medium and fine grained) and paving stones.

3.1.1 Equipment List



1. Drawbar
2. Engine
3. V-belt pulley with centrifugal clutch
4. Exciter
5. Base plate

3.2 Before Operation

Death, injury, or property damage.
Failure to follow this manual and all the safety instructions it contains can result in death, injury, or property damage.

- Carefully read and follow this manual and especially the safety instructions.
- Failure to follow this manual and all the safety instructions it contains can result in death, injury, or property damage.

Injury hazard.
Failure to use Personal Protective Equipment (PPE) or using unsuitable equipment, may harm health or cause injury.

- Personal protective equipment can include:
  - Hearing protection,
  - Safety shoes,
  - Work gloves,
  - Breathing protection.
- Determine and prepare the right personal safety equipment for the job.
- Use only personal safety equipment that is in proper condition and offers effective protection.
- Stand the machine on a level surface.

Operation

- Check:
  - the engine oil level,
  - the fuel supply,
  - that hardware is secure,
  - the condition of the engine and the machine.
- Refill any missing lubrication in accordance with the lubrication schedule.

3.3 Operating Engine

Death hazard from exhaust inhalation.

In closed or poorly ventilated spaces, poisonous engine exhaust can cause unconsciousness or even death.

- Never operate the device in closed or poorly ventilated rooms.
- Do not inhale exhaust.

- Do not activate the choke when the engine is warm.
- If the engine doesn't start, set the gas lever about a third of the way to «MAX».
- Do not let the starter handle snap back against the engine. Guide it back slowly so that the starter doesn't get damaged.

In emergencies, turn the engine switch to «OFF» to shut off the engine.

3.3.1 Low Oil Protection (OIL ALERT®-SYSTEM) [1)]

The engine is equipped with low oil protection:

- If the engine oil is too low, the engine won't start. In this case:
  - Check the engine oil level and refill, if necessary.
  - Repeat the starting process.

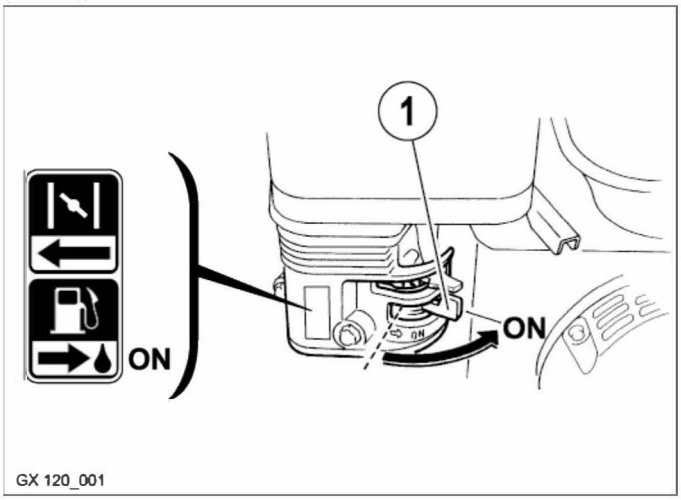
[1)] Oil Alert is a registered trademark in the United States.

Operation

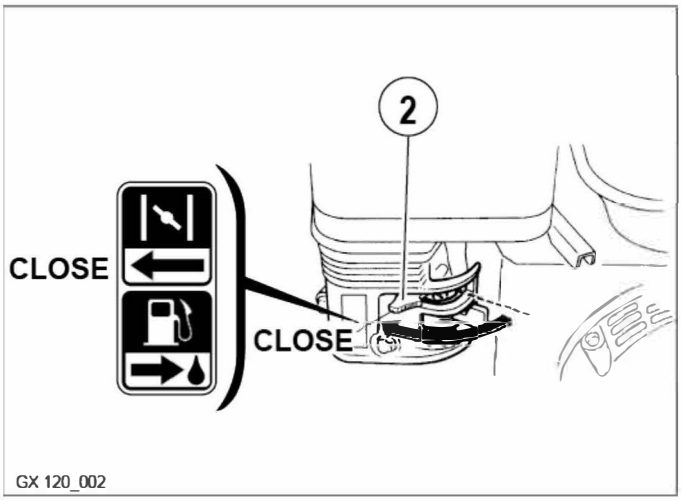
3.3.2 Start The Engine

Notice

- Do not use the choke (2) if the engine is hot or the outdoor temperature is high.
- If the engine doesn't start at operating temperature, close the choke before starting.

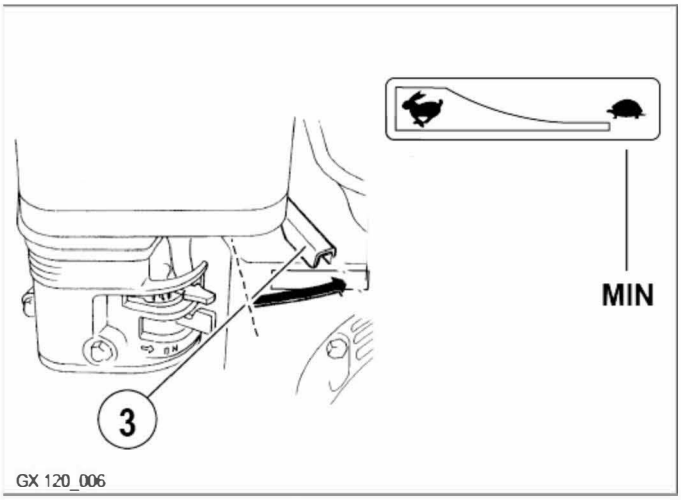


- Move fuel shutoff (1) to «ON».

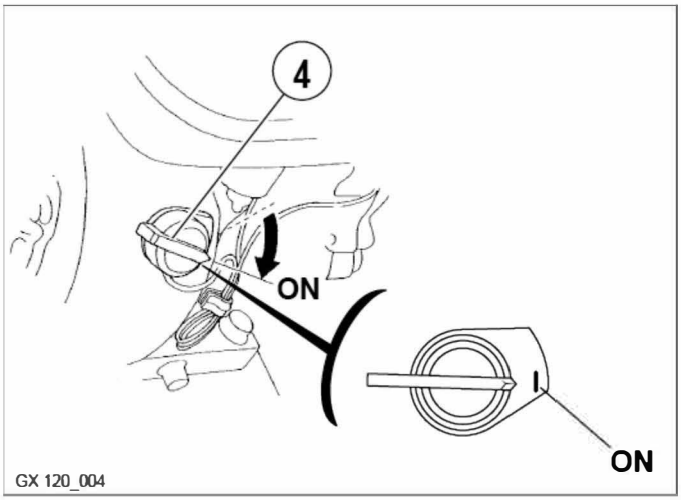


- Move choke lever (2) to «CLOSE».

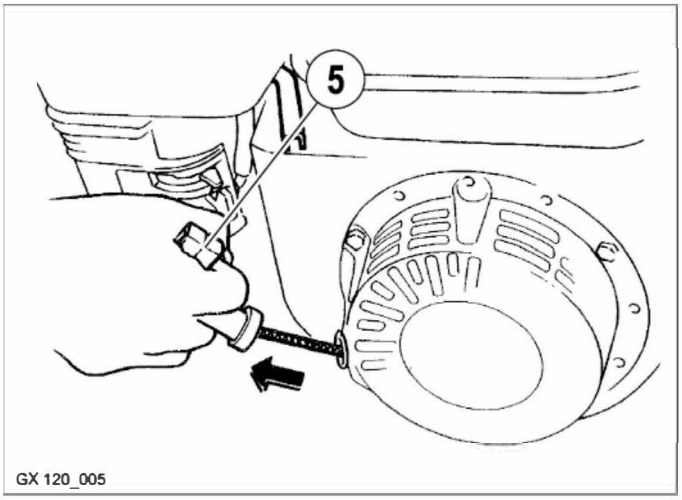
Operation



- Set the throttle lever (3) to «MIN».

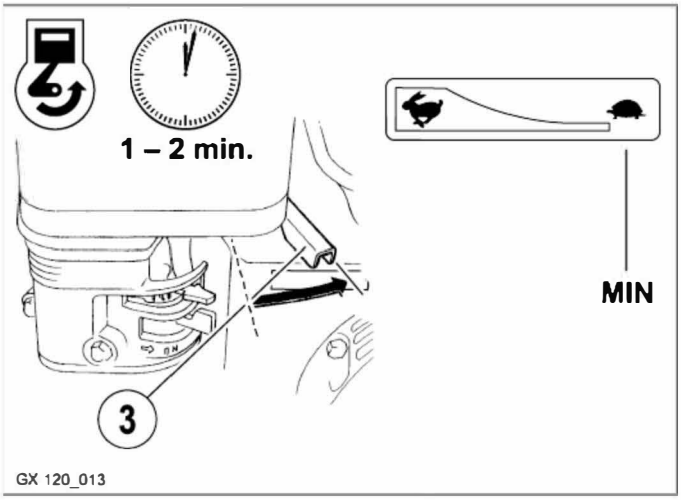


- Move engine switch (4) to «ON».

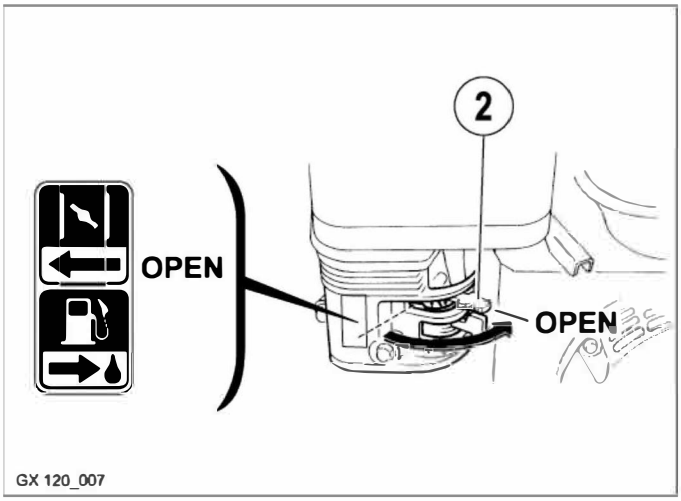


- Pull starter handle (5) slightly until resistance is felt, then pull out sharply.

3.3.3 If The Engine Starts



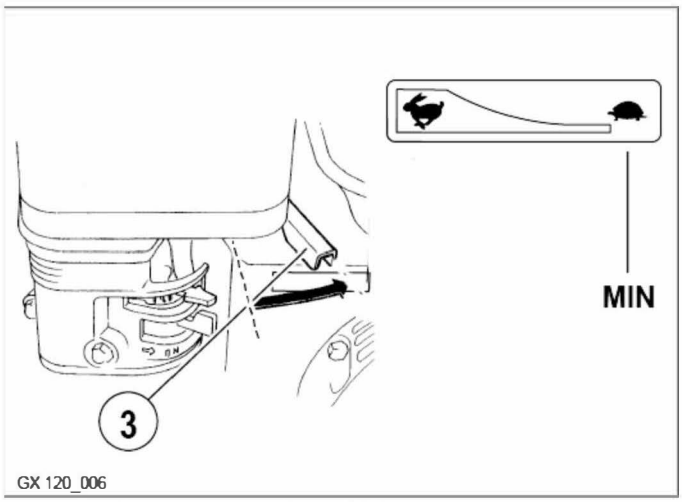
- Leave throttle lever (3) in «MIN».
- Allow the engine to warm up for 1 to 2 minutes.



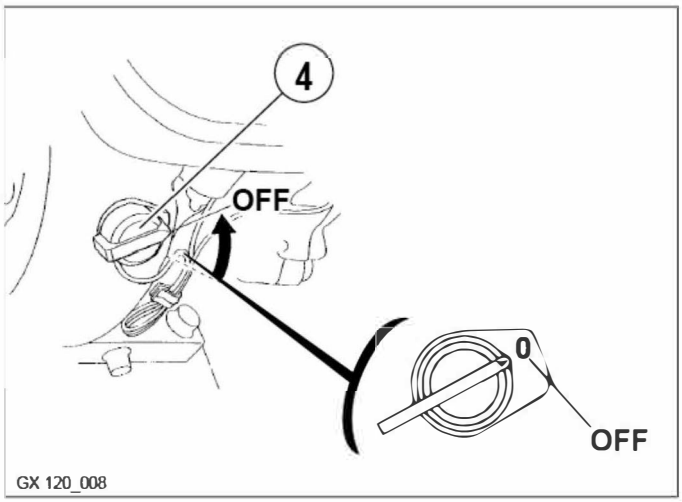
- As the engine warms up, gradually move the choke lever (2) to the «OPEN» position.
- Adjust throttle lever as necessary for operation.

Operation

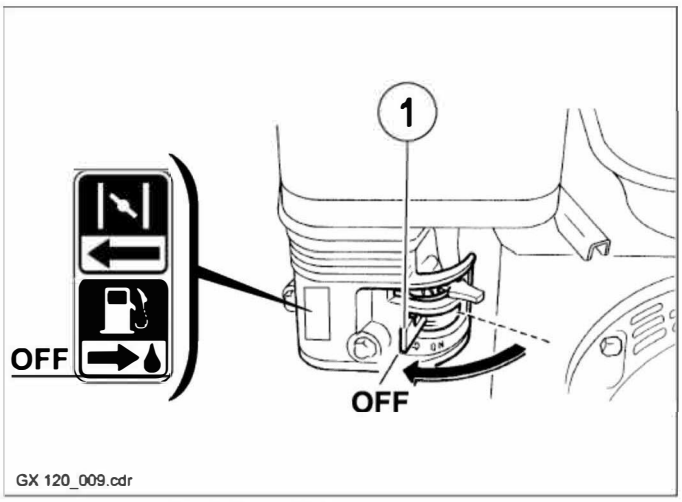
3.3.4 Switching Off The Engine



- Adjust throttle lever (3) to «MIN»



- Turn engine switch (4) to «OFF».



- Move fuel shutoff (1) to «OFF».

3.4 Operation

Death hazard from tipping or sliding the machine.
Slippery material, unstable edges and smooth surfaces can cause the machine to tip over or skid. This can cause severe injury or death.

- Navigate slopes carefully, and always drive upward in a straight direction.
- Use caution at ditch edges, terraces, and in front of obstacles.
- Keep adequate distance from trench edges and embankments.
- Refrain from any work method that impairs the machine's stability.
- Do not drive on hard concrete, hardened bitumen surfaces, or ground that is frozen solid or does not have adequate load capacity.

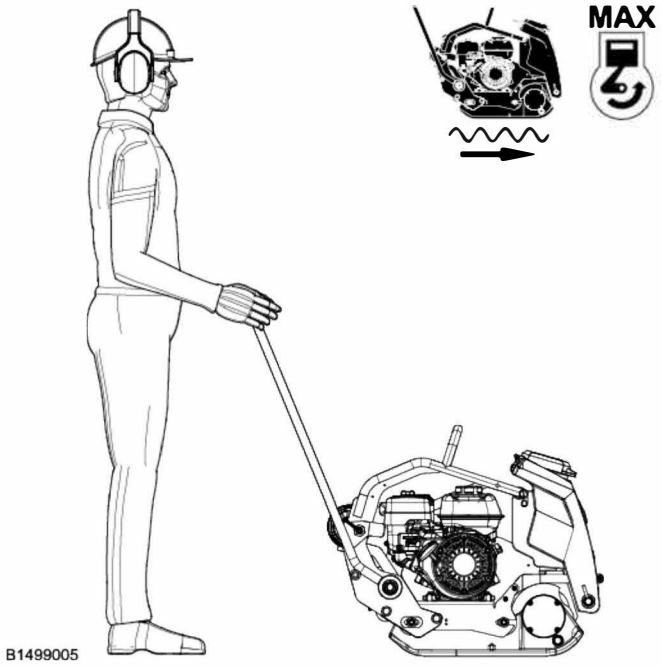
Accident hazard!
The machine drives off immediately after start-up.

- Keep a strong hold on the machine.

Hazard from coupling damage.

- Operate the machine only at full throttle and at idle during pauses.

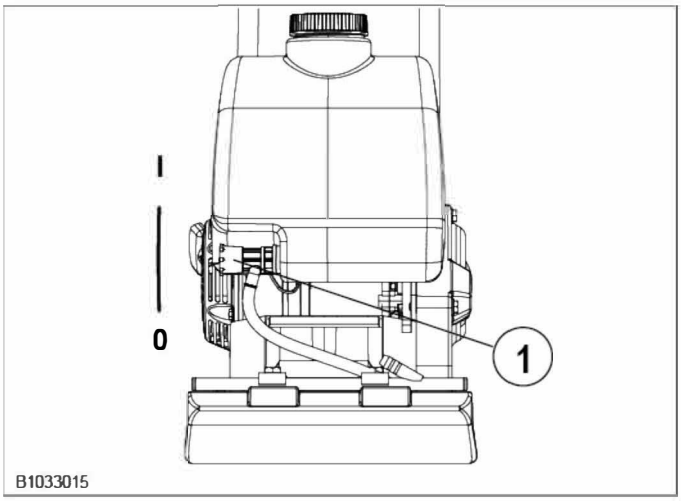
- Start the engine.
- The vibration plate can be operated as soon as the engine reacts to brief acceleration.
- Set the throttle lever to «MAX».



- The operating position is behind the machine.
- Guide the machine by the drawbar and steer it by shifting it sideways.
- To stop the machine, set the throttle lever to «min.».

Operation

3.5 Water Sprinkling System



- Open the valve to operate the sprinkler (1)
  Position «I» = Water spray off
  Position «II» = Water spray on

Notice

- Fill the water sprinkling system only with water or antifreeze mixture.
- If there is danger of freezing, empty the water sprinkling system or fill it with antifreeze mixture.

4. Transportation

4.1 Transport

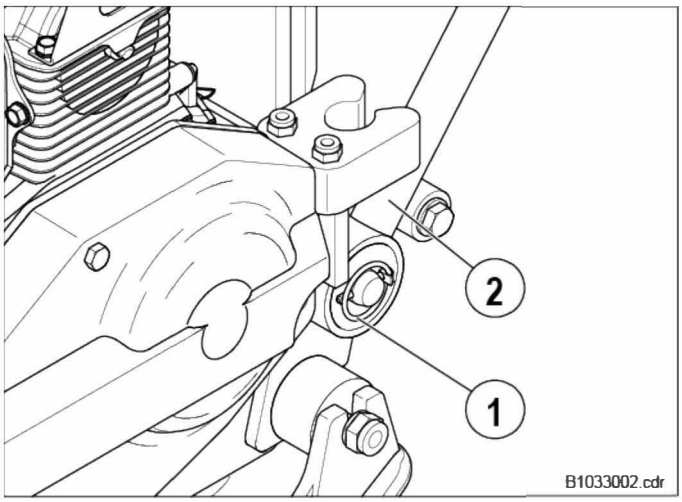
Check the contact points (frame, lift points) before use for damage and wear. Immediately replace damaged parts.
Secure the machine to avoid rolling or slipping off and to avoid tipping over.
As the machine can easily be carried by two persons, no points of attachment have been provided. The machine can therefore not be loaded or lifted with a lifting device, due to a risk of accident.

The machine should only be carried by two adults: risk of danger to health.
Do not:

- walk under suspended loads,
- stand under suspended loads,
- ride on suspended loads.

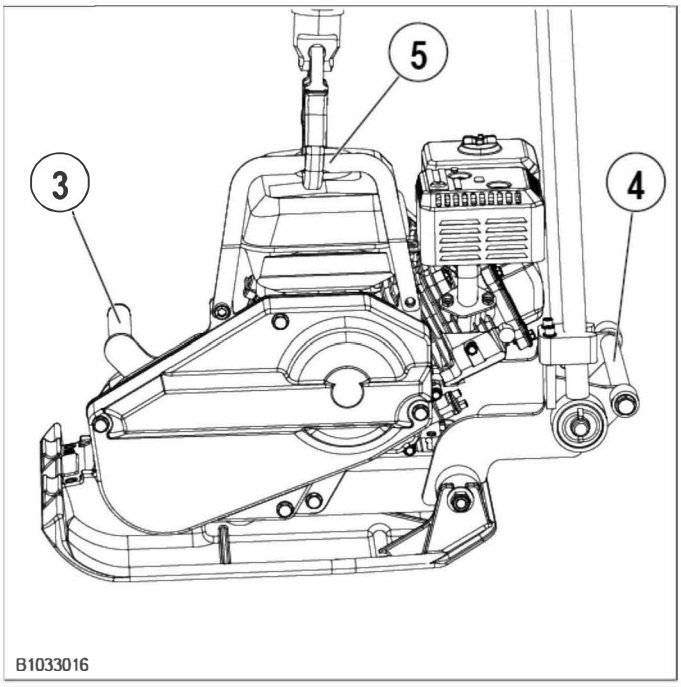
Keep the machine horizontal when loading and transporting to avoid the leaking of fuel. Spilt fuel or fuel vapors can ignite or result in explosion.

The drawbar can be removed for easier transport.



- Remove the pin (1) on both sides.
- Pull the drawbar (2) outwards slightly and remove.
- Insert the pins (1) back into the holes on both sides for storage.

Transportation



Caution hot engine, risk of burns!

- The machine should be lifted and carried by the handles (3) and (4) provided. Or:
- Use the center-of-gravity suspension point (5) to lift the machine.

5. Maintenance

5.1 General Notes

Result of proper maintenance:

increased service life
increased function
reduced downtimes
increased reliability
reduced repair costs

- Observe the safety regulations!
- Maintenance should only be carried out when the engine is shut off.
- Clean engine and machine before you start maintenance work.
- Park the machine on a flat surface and secure it against rolling away and slipping.
- Dispose of operating materials and replaced parts in safe and environmentally friendly way.
- When cleaning the machine with a pressure, do not spray the electrical components directly.
- After washing the components, dry them with compressed air to prevent surface leakage current and corrosion.

5.2 Maintenance Schedule

Item	Intervals					
	Daily	20 h	50 h	100 h	200 h	As needed
Clean machine	X					
Check engine oil level [1]	X					
Change engine oil [1]		X [2]		X		
Check air filter [1]	X					
Change air filter element [1] [3]					X	X
Check valve clearance [1]		X [2]			X	
Exciter: Check oil level			X			
Exciter: Change oil [3]				X [2]	X	
Check rubber buffer				X		
Check V-belt				X		
Check hardware for tightness		X				

1) See engine operating manual.
2) First time only.
3) Minimum once a year.

5.3 Lubrication Schedule

Lubrication point	Quantity	Change intervals [operating hours]	Lubricant
1. Engine			
	0.6 l (0.158 US gal)	First time after 20 h; then every 100 h	SAE 10W30
2. Exciter			
	0.4 l (0.105 US gal)	First time after 100 h; then every 200 h or annually	SAE 15W40

6. Maintenance (Engine)

6.1 Important Note

This manual lists only the daily engine maintenance tasks. Refer to the engine manual for complete list of warnings and intervals.

6.2 Fuel System

Death hazard from flammable substances.
Fuel is extremely flammable and explosive. During tank refills, this can cause burns, severe injuries, or death.

- Fill the tank only when the engine is off.
- No open flame.
- No smoking.
- Do not fill the tank in enclosed spaces.
- Do not inhale fuel fumes.
- Do not spill fuel. If fuel spills, clean it up immediately.

Pollution hazard from spilt fuel.

- Do not overfill the fuel tank and do not spill any fuel.
- Collect leaking fuel and dispose of it according to local environmental regulations.

6.2.1 Fuel Quality

- The engine is certified to operate on unleaded gasoline with a research octane rating of 91 or higher (pump octane rating of 86 or higher).
- You may use unleaded gasoline containing no more than 10% ethanol (E10) or 5% methanol by volume.
- In addition, methanol must contain cosolvents and corrosion inhibitors.
- Use of fuels with content of ethanol or methanol greater than shown above may cause starting and/or performance problems. It may also damage metal, rubber, and plastic parts of the fuel system.
- Engine damage or performance problems that result from using a fuel with percentages of ethanol or methanol greater than shown above are not covered under Warranty.

6.2.2 Fuel Capacity

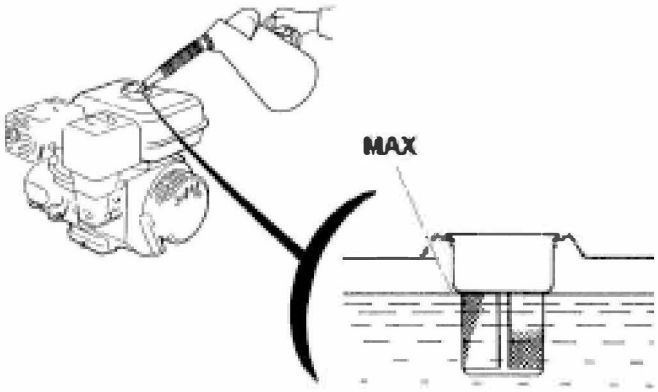
Machine type	Engine type	[Liter]	[US gal]
FP15.40	HONDA GX120	2.0	0.53
FP15.50	HONDA GX120	2.0	0.53

6.2.3 Filling With Fuel

Beware of engine damage.
Using poor-quality or contaminated fuel can cause engine damage.

- **Use only fuel that meets the designated specifications.**
- **Never use stale or contaminated fuel or an oil/fuel mixture.**
- **Make sure that dirt or water do not enter the fuel tank.**

- Park the machine on a level surface.
- Shut off the engine.



GX120_010

- Clean around the fuel fill inlet.
- Open the fuel cap and visually check the fuel level. Refill the tank if fuel level is low.
- Add fuel to the bottom of the maximum fuel level limit of the fuel tank. Do not overfill. Use unleaded automotive gasoline only.
- Wipe up spilled fuel before starting the engine.
- Close the fuel cap tightly.

6.3 Engine Oil Level

Danger of burns.
There is a danger of burns when working on a hot engine.

- Wear safety gloves.

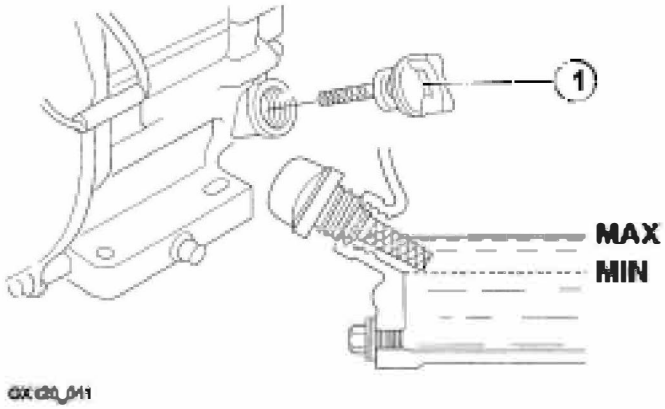
Danger of injury.
Prolonged contact with engine oil can lead to irritation of the skin.

- Wear safety gloves.
- If there is contact with the skin, thoroughly wash the affected areas of the skin with soap and water.

Danger of later engine damage.

- Operating the engine with an oil level below the minimum mark or above the maximum mark can lead to engine damage.
- When checking the oil level, the engine must be horizontal and have been switched off for a few minutes.

- Park the machine on a level surface.
- Shut off engine.



- Remove the oil cap/dipstick (1) and wipe it clean.
- Insert the oil cap/dipstick into the oil filler inlet as shown, but do not screw it in, then remove it to check the oil level.
- If the oil level is near or below the lower limit mark on the dipstick, fill with the recommended oil to the upper limit mark (bottom edge of the oil fill inlet). Do not overfill.
- Reinstall the oil cap/dipsti

Maintenance (Engine)

6.4 Air Filter

Risk of fire and explosion caused by inflammable substances.

Danger

- For cleaning the filter element, do not use any flammable or abrasive materials.
- In the work area, do not smoke, and prevent open flames or sparks.

Caution

Risk of injury.

When working with compressed air, foreign objects can go into the eyes.

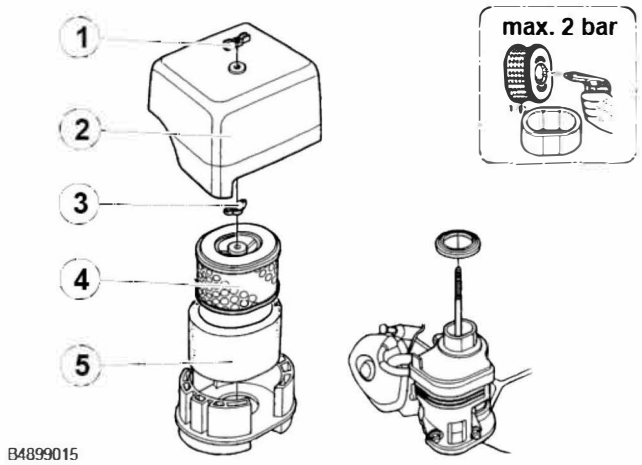
- Wear safety glasses.
- Never point the jet of compressed air at a person or oneself.

Notice

Replace the filter element:

- when the filter element is damaged,
- if there is wet or oily contamination,
- if engine performance suffers,
- at least once a year.

- Do not allow dirt into the air channel and carburetor.
- Never run the engine without an air filter.
-



- Remove the wing nut (1) from the air cleaner cover (2) and remove the cover.
- Remove the wing nut from the air filter (3) and remove the filter.
- Remove the foam filter (5) from the filter cartridge (4).
- Inspect both air filter elements and replace them if they are damaged. Clean the air filter elements if they are to be reused:
- **Filter Cartridge:**
  - Blow dry compressed air (maximum 2 bar / 29.007 psi) through the filter cartridge (4) from the inside out.
- **Foam air filter:**
  - Clean in warm soapy water, rinse, and allow to dry thoroughly. Or clean in nonflammable solvent and allow to dry.

    - Dip the foam filter (5) in clean engine oil, then squeeze out all excess oil. The engine will smoke when started if too much oil is left in the foam.
- Wipe dirt from the inside of the air cleaner case and cover using a moist rag. Be careful to prevent dirt from entering the air duct that leads to the carburetor.
- Place the foam filter (5) over the filter cartridge (4).
- Reinstall the assembled air filter. Be sure the gasket is in place beneath the air filter.
- Tighten the air filter wing nut securely.
- Install the air cleaner cover and tighten the wing nut securely.

7.1 Cleaning

Caution

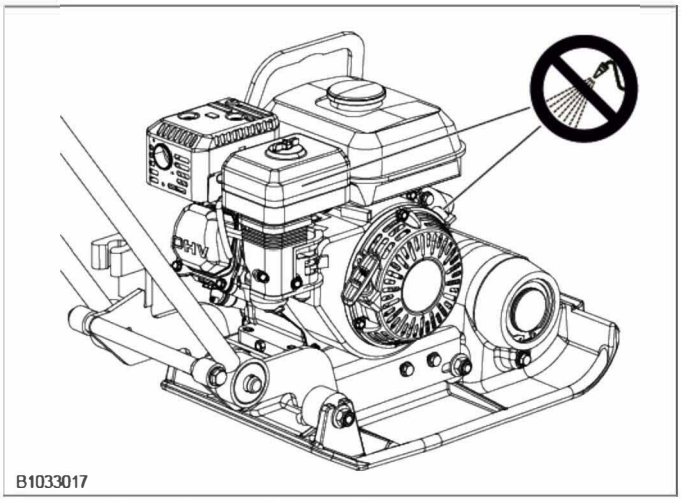
Risk of fire and explosion caused by flammable substances.

- For cleaning, do not use any flammable or abrasive materials.

Notice

When cleaning the machine with a pressure washer, do not spray the electrical components directly.

- When cleaning the machine with a pressure washer, do not hold it directly over the air filter.



- Clean the machine daily.
- After cleaning all cables, hoses, connections, and connectors are to be checked for leakage, open connections, chafing points and other damage.
- Damaged parts are to be replaced immediately.

7.2 Hardware

Notice

Replace all self-locking nuts after each removal.

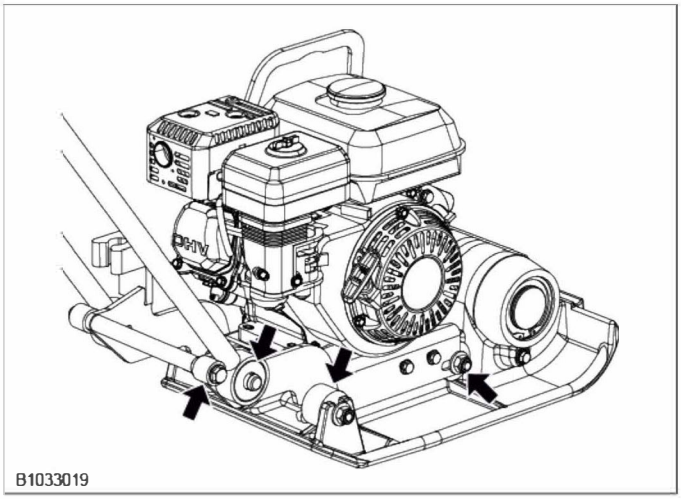
7.2.1 Tightening Torques

Ø	8.8		10.9		12.9	
	Nm	ft lb	Nm	ft lb	Nm	ft lb
M 4	3	2	4,4	3	5	4
M 5	6	4	8,7	6	10	7
M 6	10	7	15	11	18	13
M 8	25	18	36	26	43	31
M 10	49	36	72	53	84	61
M 12	85	62	125	92	145	106
M 14	135	99	200	147	235	173
M 16	210	154	310	228	365	269
M 18	300	221	430	317	500	368
M 20	425	313	610	449	710	523
M 22	580	427	830	612	970	715
M 24	730	538	1050	774	1220	899
M 27	1050	774	1480	1092	1774	1308
M 30	1420	1047	2010	1482	2400	1770

TAB01001.cdr

- Strength classes for screws with untreated, non-lubricated surface.
- The values result in 90% utilization of the apparent yielding point at a friction coefficient μ_{tot} = 0.14.
- Tightening torques are checked for correctness using torque wrenches.
- When using lubricant, the specified values do not apply.

7.2.2 Check Hardware For Tightness

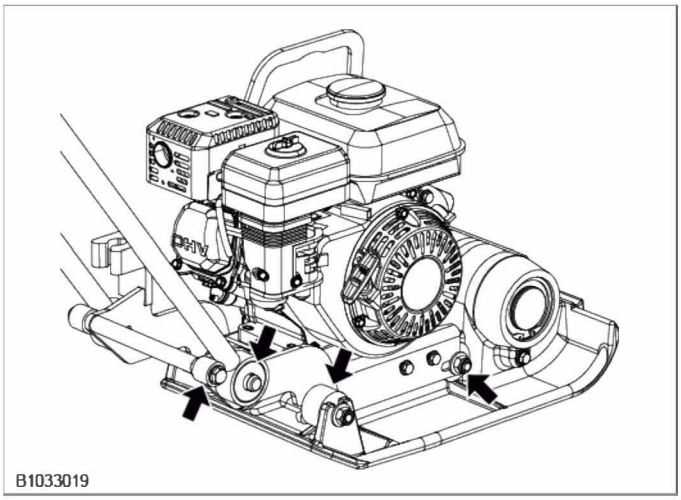


B1033019

- With vibrating machines, it is important to check the hardware for tightness at regular intervals.

- Refer tightening torque table.

7.3 Check The Rubber Buffers



- Inspect the rubber buffer for:
  - Cracks and ruptures.
  - Seated correctly.
  - Replace immediately if any signs of damage are found.

7.4 Checking And Tensioning The V-Belt

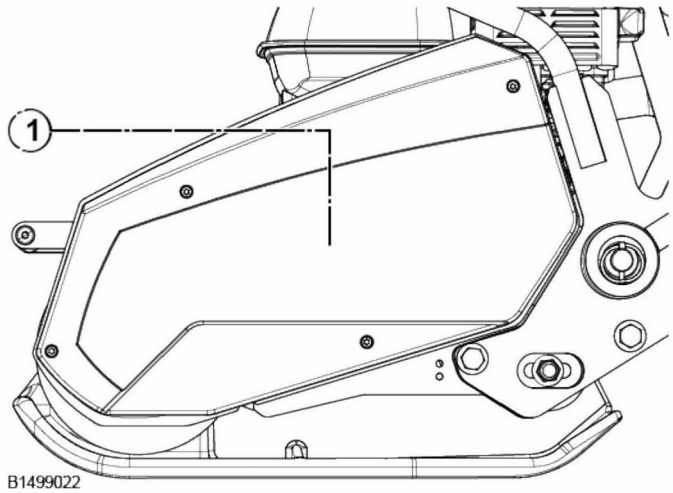
Caution

Injury hazard.
Crushing injuries can occur with an open-running belt drive.

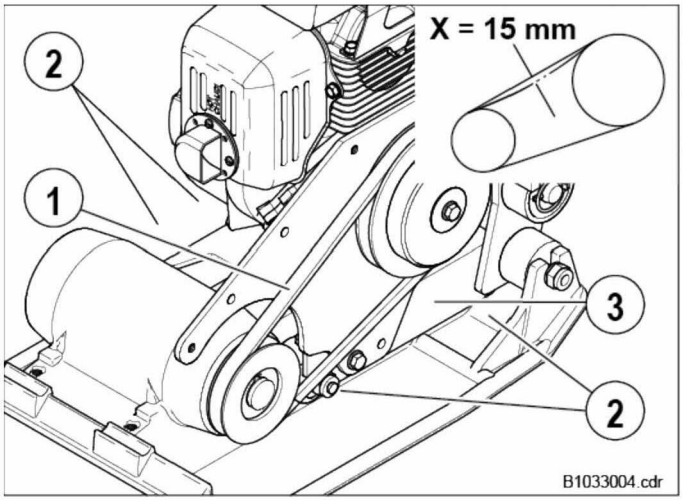
- Do not start the engine without the V-belt guard.

Notice

- It is important to ensure that the frame is on the rubber buffer contact surfaces and that the rubber elements are not stretched and can spring back. If necessary, apply light blows with a hammer to knock the rubber buffers forward.
- Refer to the maintenance schedule for proper service intervals. Adjust the tension as necessary.



- Remove the V-belt guard (1).



- Check V-belt (1) for tension and condition.
- Loosen the nuts (2) of the rubber buffers on the outside.
- Push the engine frame (3) back.

X: ca. 15 mm (0.59 in)

- Both buffers should be equally pre-tensioned.
- Tighten the nuts.
- Crank the drive manually and recheck tension and repeat the procedure if necessary.
- Install the V-belt guard.

7.5 Exciter: Oil Change/Oil Level

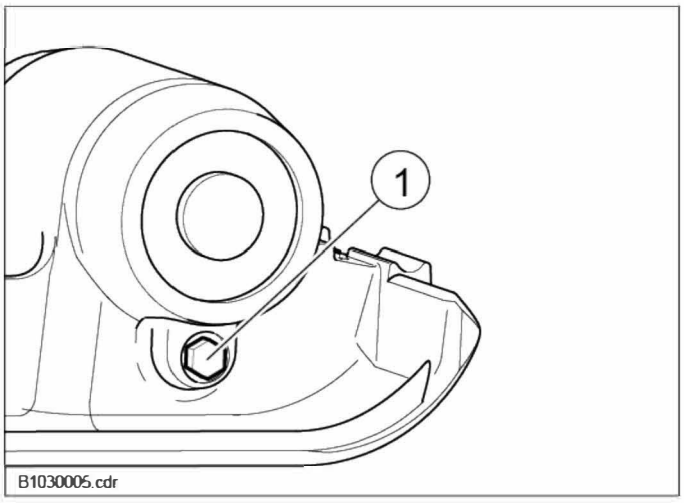
Burning hazard.
Working on the exciter may cause a burning hazard from hot oil.

- Wear safety gloves.
- Slowly open the oil drain plug to release pressure.

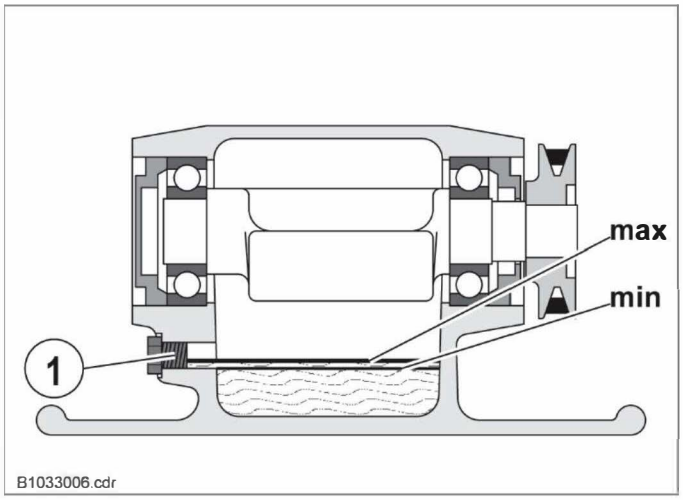
Environmental hazard through operating materials!

- Collect leaking oil and dispose of in an environmentally friendly manner.
- Do not allow it to enter the ground water, water bodies, or sewage system.

Check / change exciter oil when it's warm.



- Loosen oil drain plug (1) and unscrew.
- The oil level must reach to the lower edge of the thread (minimum).
- Screw in oil drain plug (1).



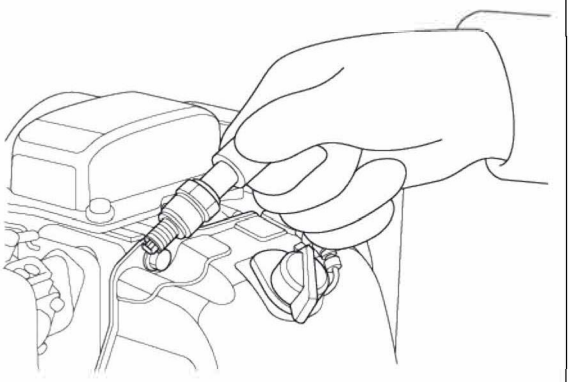
- Loosen oil drain plug (1) and unscrew.
- Drain old oil.
- Fill new gear oil.
- Screw in oil drain plug (1).
  Oil capacity and quality: see lubrication schedule.

8. Troubleshooting

8.1 General Information

- Observe the safety information.
- Only qualified and authorized persons may carry out repair work.
- In case of faults, the operating and maintenance instructions must be referred to for correct operation and maintenance.
- If the cause of the fault cannot be located or remedied, see your Bobcat dealer for service.
- Always first check the most likely causes.

6.2 Fault Table

Fault	Possible cause	Remedy	Remarks
Engine does not start	Fuel deficiency	Refill fuel	
	Fuel valve closed	Set fuel valve to «OPEN»	
	No fuel supply at carburetor	Check	To check, loosen drain screw on carburetor (fuel valve set to «OPEN»)
	Engine switch set to «OFF»	Set engine switch to «ON»	
	No spark at spark plug	Check	Remove plug connector. Clean base of sparkplug. Fit sparkplug in plug connector. Hold side electrode of spark plug against any point of the engine, pull out the starter cable and check for spark information.  GX 100_10 No spark - replace plug Spark - fit plug and attempt to start engine
	If the engine still does not start, contact an authorized Honda Service Center.		
Reduced engine performance	Air filter clogged	Clean air filter; replace if necessary	
Engine runs, machine does not move forward	Insufficient V-belt tension V-belt broken Centrifugal clutch lining worn	Retention V-belt Replace V-belt Replace linings and springs	