

## EG-Konformitätserklärung

EC-Declaration of Conformity

Hiermit erklären wir,  
We herewith declare,

Technikhandel Echterdingen Ltd.  
Esslinger Strasse 7  
70771 Leinfelden-Echterdingen

dass die nachfolgend bezeichneten Maschinen aufgrund ihrer Bauart mit den grundlegenden Sicherheits- und Gesundheitsanforderungen der einschlägigen EG-Richtlinien übereinstimmen.

*That the following machines, based on its construction, comply with the basic safety and health requirements of the appropriate EC Directives.*

Bei einer unerlaubten Veränderung der Maschine verliert diese Erklärung ihre Gültigkeit.

*In case of unauthorized modification of the machines, this declaration will lose its validity.*

**Maschinenbezeichnung:** Rüttelplatte  
*description of machine:*

**Typ:** VP10/31, VP12/35, VP16/44, VP16/46P,  
*type:* VP15/50W, VP22/46

2000/14/EG

**Konformitätsbewertungsverfahren:** Anhang VII

**Prüfstelle:** TÜV Rheinland

**gemessener Schalleistungspegel:** 103 dB(A)  
**garantierter Schalleistungspegel:** 105 dB(A)

**andere Richtlinien:** 2006/42/EG, 2004/108/EG, EN 500-1, EN 500-4  
*applicable EC directives:*

**Datum:** 28.04.2010  
*date:*

**Unterschrift:**  
*signature:*



**Name, Funktion:** E. Kraushaar, Geschäftsführer  
*name, title:*

# BAUMAX<sup>®</sup>

## Owner's Manual Forward-Moving Soil Compactors

VP10/31, VP12/35, VP16/44,  
VP16/46P, VP15/50W, VP22/46



Do not use this device until you have fully read and understood these instructions!



**Do not use this equipment if you are under the influence of drugs, alcohol or any kind of medication that can affect your reactions.**

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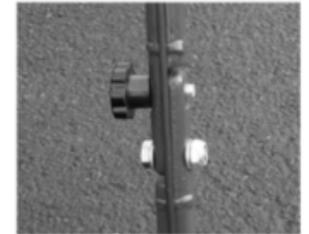
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## 27. Installation Instructions

### Installing Guide Handle

Use the supplied screws (M10), washers and nuts to fix the upper and lower part of the guide handle the enclosed screws (M10) connecting washers and nuts together. Tighten the nuts of the Allen bolts with a wrench. Tighten the thumbscrews by hand. If quick folding of the handle is not required, optionally replace the thumbscrews with M10 hex screws and tighten.



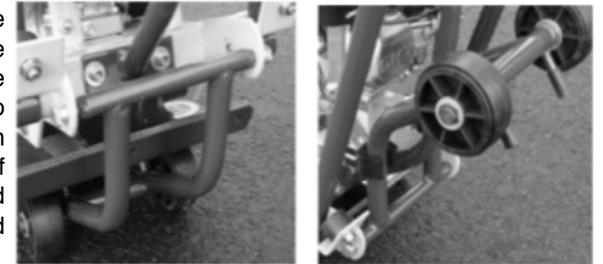
### Installing Throttle Lever

Secure the throttle lever with the attached half-shell, Phillips screws and nuts at any point on the guide handle. Then lay the throttle cable to the guide handle and secure using cable ties. Bending of the Bowden cable should be avoided. Connection to the engine should result in a gentle arc of the cable.



### Installing Transport Axle on VP10/31, VP12/35, VP16/46P, VP15/50W, VP16/44

Attach the cross tube of the transport axle between the two tabs at the rear of the vibration plate using the two shoulder bolts, and then tighten. During operation of the machine, the axle should always be folded up and snapped into the clamps.



### Attaching Transport Axle on VP22/46 for transport

Tilt the vibration plate forward and catch the hook of the transport axle to the rear end of the bottom plate in the centre hole from below. Then move the axle under the bottom plate and tilt back the shaker plate. The vibration plate can now be moved by the guide handle.



27. Service Record for Model \_\_\_\_\_ Purchase Date: \_\_\_\_\_

Date Work carried out     Signature	Date Work carried out     Signature
Date Work carried out     Signature	Date Work carried out     Signature
Date Work carried out     Signature	Date Work carried out     Signature
Date Work carried out     Signature	Date Work carried out     Signature

Thank you for purchasing our product!

**This machine should only be used by a competent person who has read and understood this manual!**

**1. Introduction**

This manual contains information and procedures for the safe operation and safe maintenance of your machine. Improper operation or incorrect maintenance can lead to dangerous situations. For your safety, you must thoroughly familiarise yourself with the safety information described herein and always adhere to it. Repair work must be performed by authorised specialists. Defective parts must be replaced immediately. We reserve the right to make technical changes.

Our goal is to provide construction equipment that provides the operator with efficient and safe operation. Caution and good judgment are the best protection against injury. It is not possible to cover all potential risks here. The most important, we have compiled for you in this manual. Every operator should always be working with the necessary care. Warnings and safety instructions attached to the equipment and/or provided by the employer or the responsible trade association must be noted. The operator must always read the safety instructions carefully and follow them.

**2. Safety**

The machine is designed in accordance with recognised safety regulations for construction. However, improper use may cause danger to life and limb of the operator or other persons.. Furthermore, improper use can also cause damage to the machine or other property. Therefore take time to make yourself familiar with the machine, even if you have already worked with similar machines in the past! Try the machine carefully before you beginning daily tasks! Get a feel for the machine and learn how it works, the possibilities, limitations and potential risks! Take particular care to be familiar with how the machine should be switched off as quickly as possible!

Never allow anyone to operate the machine without prior instruction! Make sure that all operators have read and understood the operating instructions and that they act in accordance with the instructions given here! The incorrect and imprudent use of the machine can result in serious injury. Due to the machine's weight, it must be lifted with utmost caution using suitable equipment!

### 3. Hazards, Risks and Behaviours



#### Mechanical Hazards!

Use this machine only when all the necessary safeguards are in place! Avoid contact with rotating and moving parts as they can cause injury or even crushing and amputation of limbs!

Make sure the engine ignition switch in the "OFF" position and that the ignition cable is disconnected from the spark plug before removing guards or performing any maintenance or adjustment work!

Make sure that the machine is set down on a flat surface so that overturning, overbalancing or slipping during start up is avoided!

Never leave an operating machine unattended!

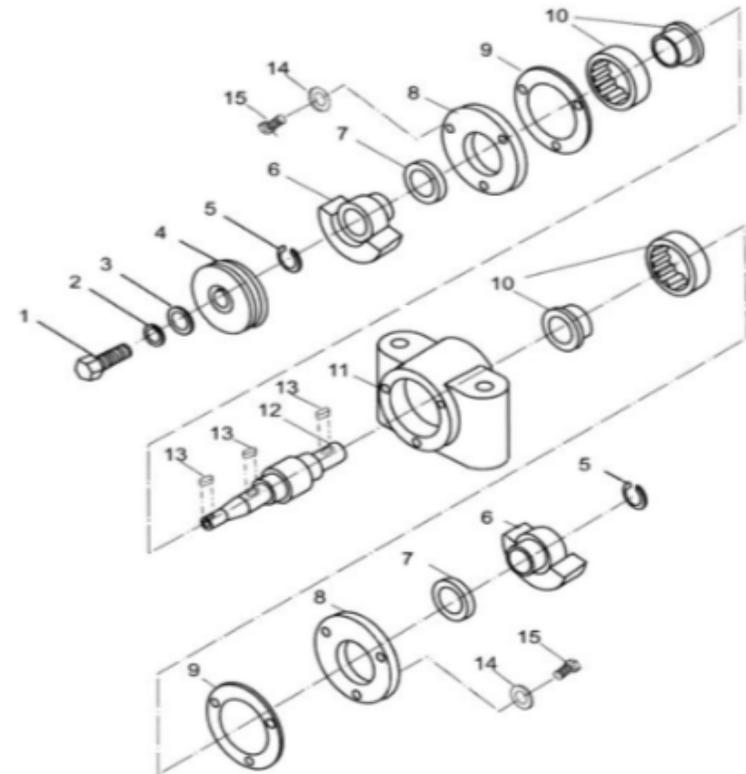
Before starting to work, ensure that the walls of a trench are stable and that machine vibrations cannot cause a collapse! In particular, when working on slopes and edges, consider that the soil bearing capacity can be greatly reduced by the effects of vibration.

Make sure there are no cables, gas and/or water pipes that the bottom of the work area which could be damaged by the vibrations!

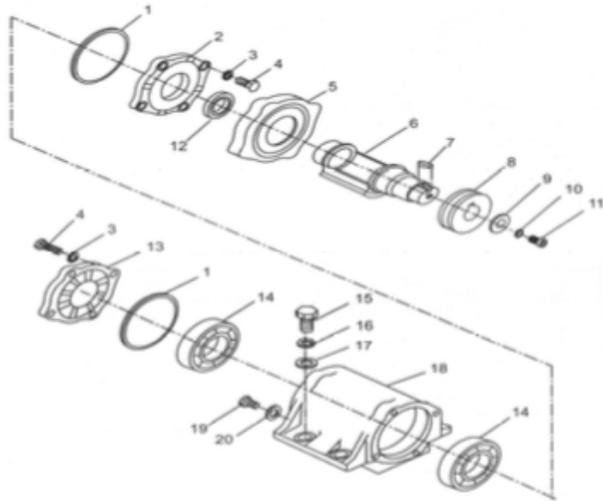
Pay attention to the correct posture when working with this machine, because the periodic vibrations and repetitive work motions can be harmful to hands and arms.

Never carry out checks on the machine while it is in operation!

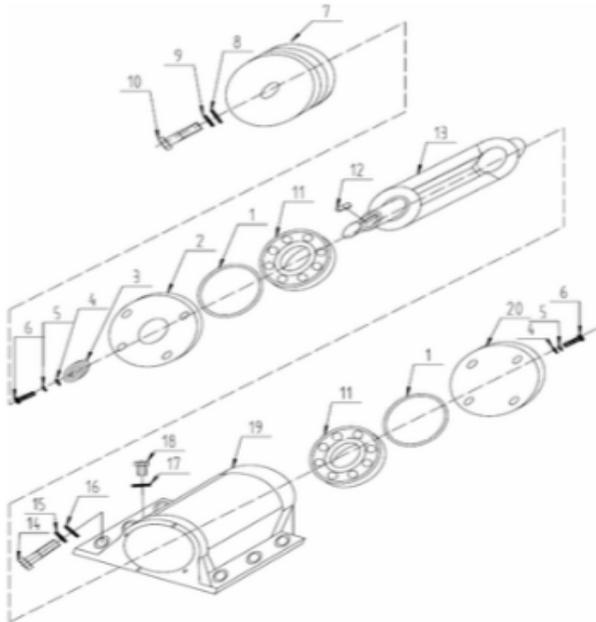
### 25. Exploded Diagram Vibratory Exciter VP22/46



**23. Exploded Diagram Vibratory Exciter VP12/35, VP15/50W**



**24. Exploded Diagram Vibratory Exciter VP16/44, VP16/46P**



Warning! Do not increase the set full load maximum speed without prior permission of the manufacturer! Any speed increase can cause bodily injury and/or damage to the machine.

Make sure that you do not come into contact with the exhaust or other hot parts! Touching these parts can result in serious burns.

Only allow the machine to be repaired and adjusted by trained personnel!



**Fire and Explosion Hazards**

Petrol is highly flammable and explosive under certain conditions. Only store petrol only in an appropriate container! Never refuel a petrol engine while it is operating or before it has cooled down! Never refuel in the vicinity of sparks, open flames or smoking persons! Avoid overflowing and spilling petrol when refuelling!

When refuelling, ensure you are in a safe position for the machine and the operator in order to avoid petrol spills! If fuel is spilled, make sure that the area on which you start the machine is dry, because gasoline or gasoline vapours can ignite. Make sure that the fuel cap is securely closed after refuelling!



**Chemical Hazards**

Do not operate or refuel any diesel or petrol engine in poorly ventilated areas, such as deep holes or enclosed spaces! Inhalation of fuel vapours and exhaust fumes can cause death. If you are working in trenches, ensure there is adequate ventilation! If necessary, are set up fans.

Mineral oils and fuels are harmful to health. Therefore you should always wear suitable protective equipment, such as Safety goggles and protective gloves, when handling any these substances. Direct skin contact should be avoided.

In the event of skin contact: wash immediately with soap and water. If fuel or oil comes into contact with your eye, you must seek immediate medical attention. Petroleum and fossil fuels are harmful to the environment. Only dispose of discharged and spilled mineral oils or fuels in accordance with the applicable local and national environmental regulations.



### Noise Hazard

Warning! Excessive noise can lead to temporary or permanent hearing loss. Always wear appropriate hearing protection which has been approved to the relevant safety regulations to limit noise pollution!



### Protective Clothing

Always wear ear protection!  
Wear goggles and dust mask in dusty environments!  
Always wear safety shoes and proper protective clothing!  
Wear a Helmet!



### Other Risks

Slips, trips and falls are the main causes of serious or even fatal injuries.  
Avoid uneven or slippery work surfaces!  
Avoid working near unprotected holes or trenches!

## 4. Operator Requirements

Only qualified and trained personnel over 18 years are allowed to operate the machine. The operator must be physically and mentally healthy and productive. The operator must have carefully read and understood the operating instructions and be familiar with the necessary safety precautions and safety devices before using the equipment.

## 5. Applications

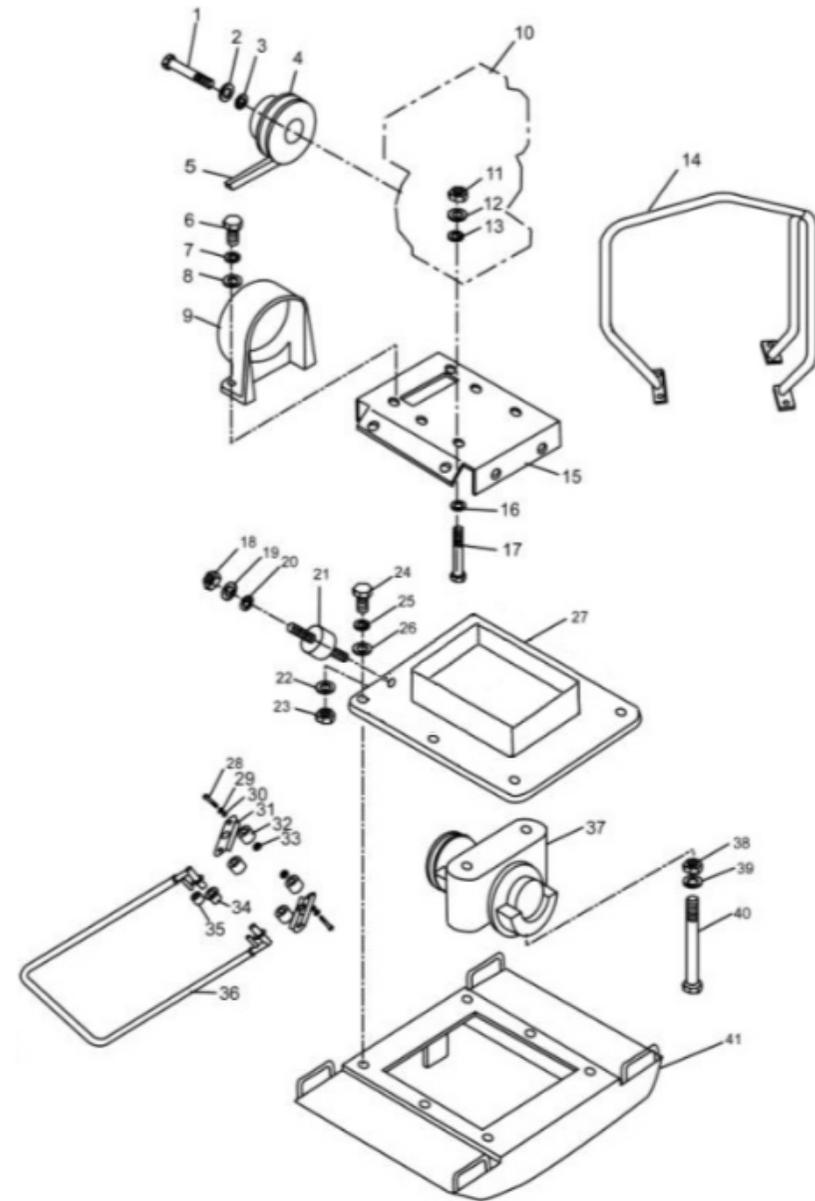
Landscaping / Infrastructures  
Paving  
Earthwork / Foundation preparation  
Trench compaction  
Road Construction / Restoration

## 6. Conditions and Intended Operation

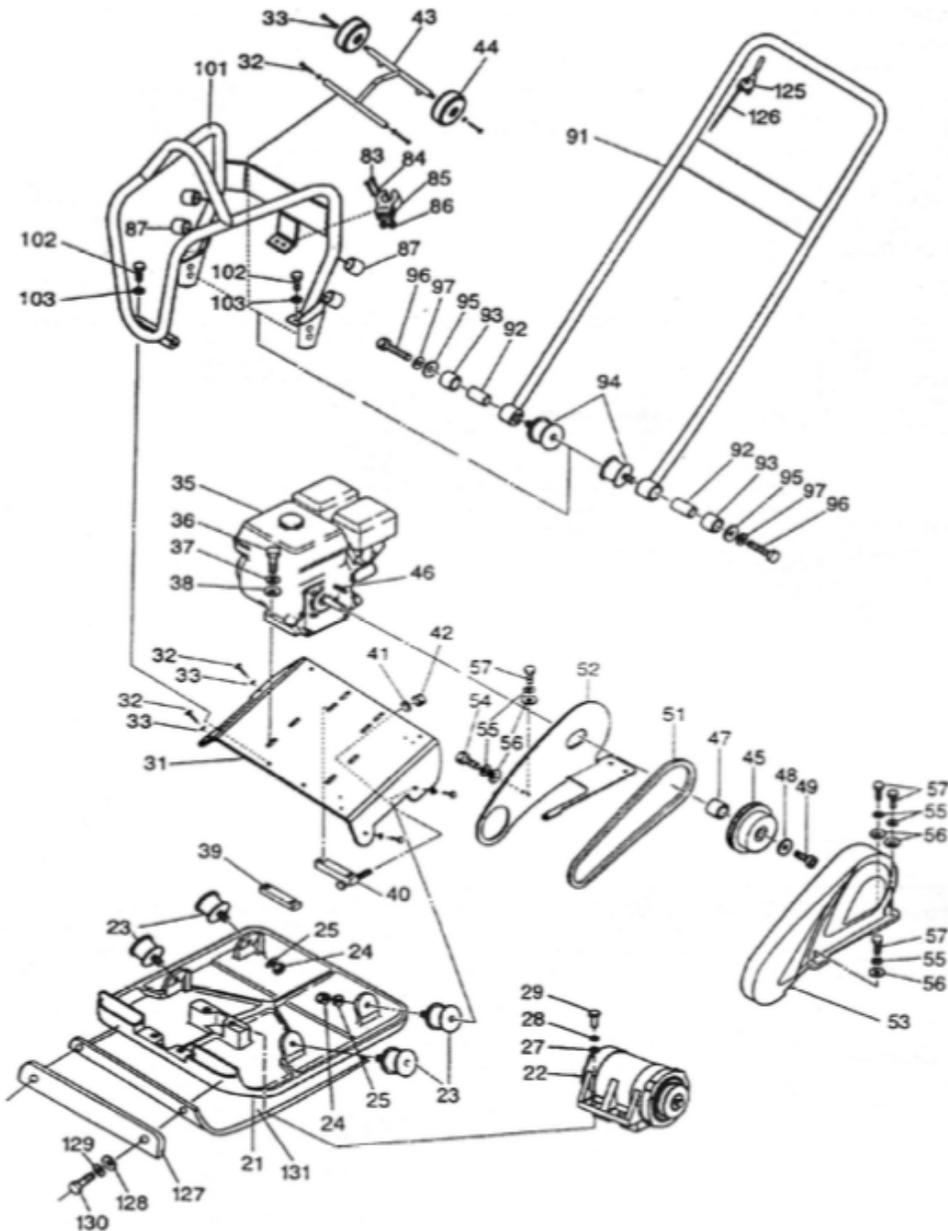
### Requirements for the use of the soil compactor:

- Only operate with perfect technical condition.

## 24. Exploded Diagram BAUMAX® VP22/46



## 21. Exploded Diagram BAUMAX® VP15/50W



- Regular maintenance should be carried out according to the specifications of this manual.
- All relevant safety conditions are met.

### Intended Use of the Soil Compactor:

- Compacting soil
- Compressing of gravel and mineral mixture
- Compressing asphalt
- Shaking in of paving stones

### This Soil Compactor Is Not Suitable For:

- Compressing strong cohesive soils
- Compressing hard, non-compactable soils
- Compacting non-cohesive soils
- Compressing frozen soils
- Shaking in of large slabs

### Intended Use

The operator must be located, and must control the device carefully from, behind the unit with hands on the controls during operation. The operator must wear proper protective equipment such as hearing protection, safety helmet, safety goggles and protective shoes. There should be no other people in the immediate vicinity of the device, because of the risk of injury from moving parts and possibly from ejected material. If the operator leaves the working position, the machine must be shut down.

The machine may only be operated fully assembled in operation. If any parts are not fully assembled or need replacing, e.g. Air filter, possibly battery cover, ... etc. and in particular protective equipment such as belt guard, heat protection, exhaust or on/off switch, the equipment must not be operated.

Operate the machine in such a way as to remove any overturning or risk of falling on edges or embankments. The machine is to be guided such that the operator is not in the direction of fall when an unforeseen tilting of the machine occurs.

When working on an incline, always take care not to exceed the maximum admissible inclination stated in the technical data.

### Transport

Always turn off the machine and allow the engine to cool before transporting the unit. Lock the tiller in the upright position before transporting.

Prevent the unit from overturning, slipping or falling during transport with suitable tested, lashing equipment. The lashing belts may only be fixed to the base plate or the lower ends of the frame near to where the frame connecting screws meet the top plate.

## Lifting

Use only suitable and approved hoists, slings and lifting accessories with sufficient capacity. Use only permissible lifting points according to the instruction manual and ensure that the machine is secured reliably on the hoist. There must be no persons in the immediate vicinity of the machine when lifting.

## Storage

After operation, the cooled device should be protected from the weather and stored out of the reach of children. For storage of more than one month, the fuel must be drained during storage. For petrol engines, the carburettor must be emptied.



**For damage caused by improper use, handling, disregard of operating instructions, impermissible overspeed, deficient or insufficient maintenance or separate structural changes carried out without approval of the manufacturer, machine warranty, and the liability of the manufacturer and the dealer, will be voided. The risk in case of these events is solely with the operator.**

**Be sure to read the safety instructions and commissioning instructions before starting the machine for the first time!**

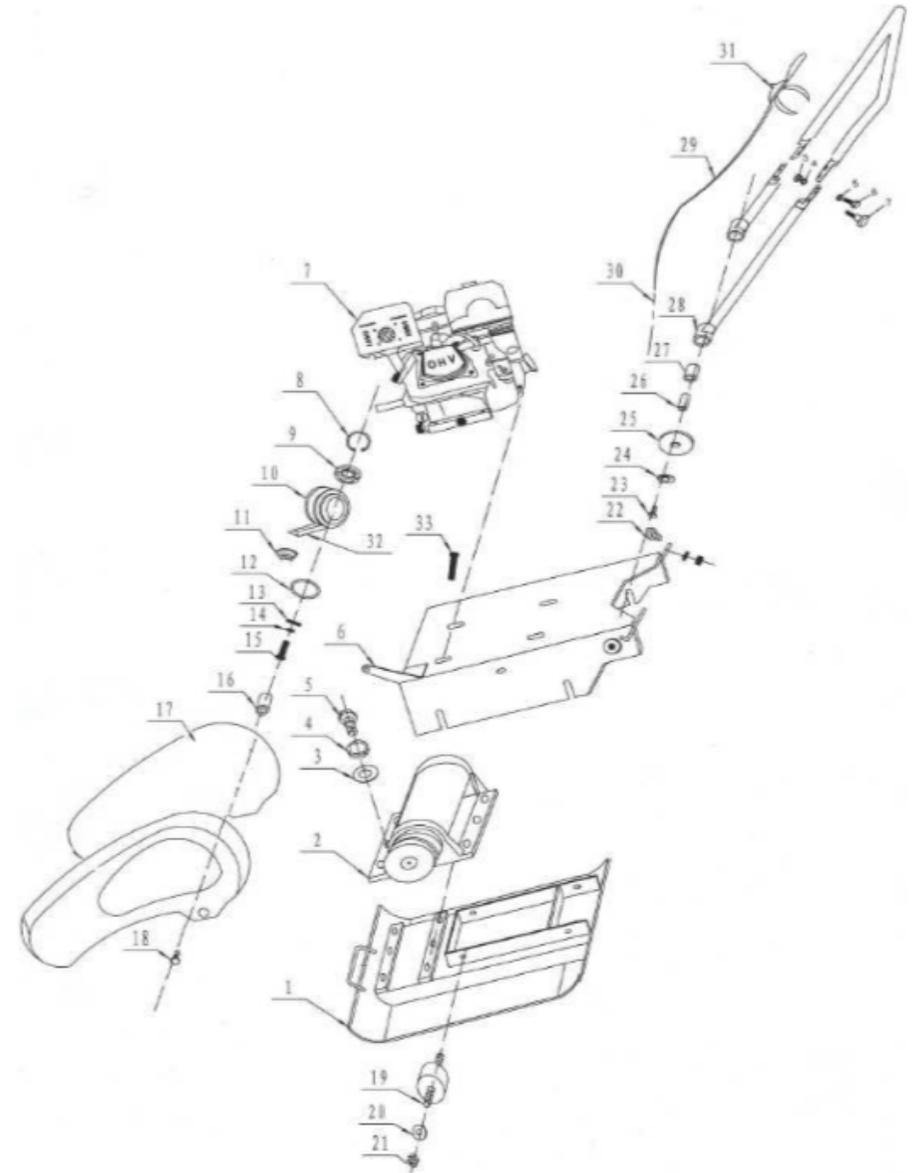
## 7. Before Starting

1. Read the Safety section of the Operating Instructions!
2. Check the engine oil level prior to each start-up!
3. Make sure that the vibration plate is clean, especially the base, the cooling air inlet of the engine and the air cleaner! In heavily contaminated work areas, replace the air filter!
4. Check all nuts and bolts are tight. Normal operating vibrations can loosen screws/nuts/bolts and this can lead to serious accidents and/or damage to the machine.

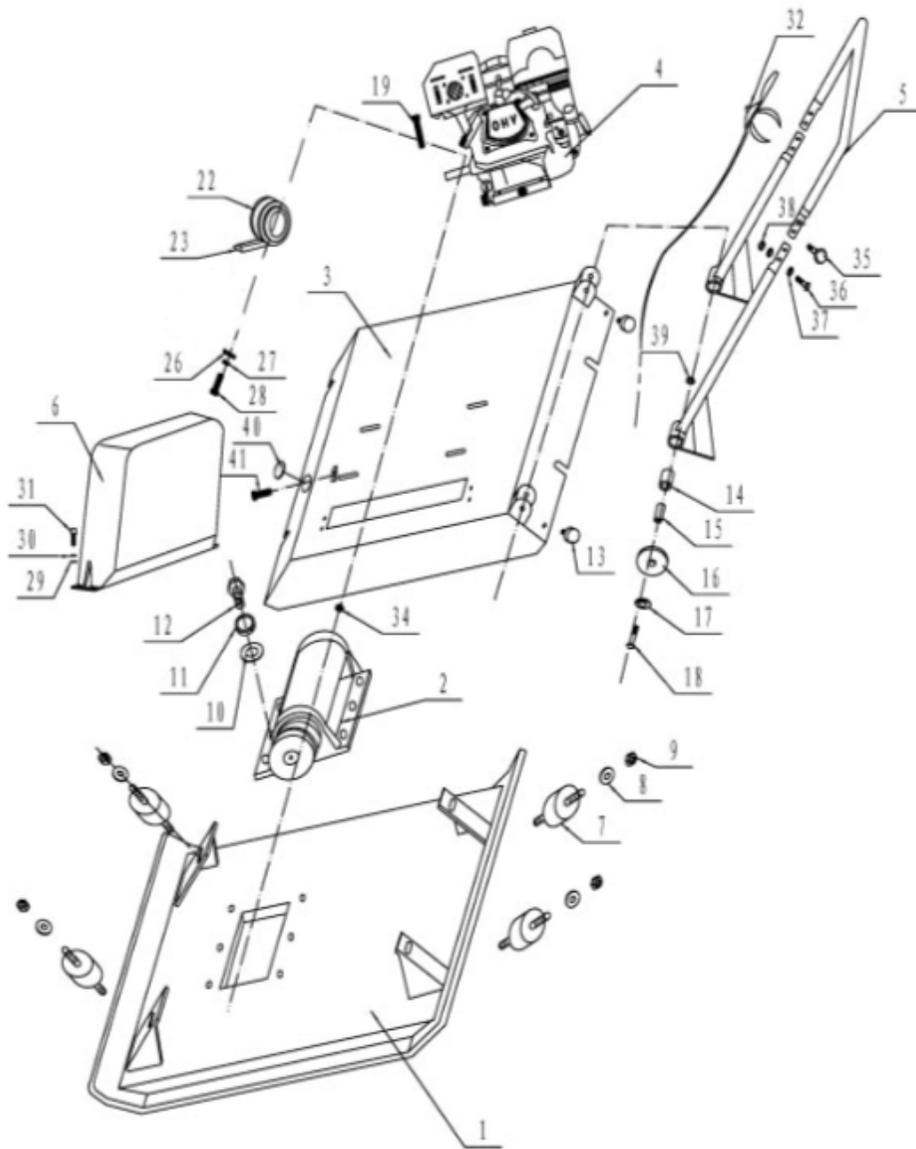
## Check the Engine Oil

1. Place the switched off machine on a flat, level surface.
2. Remove dipstick and wipe.
3. Replace the dipstick again, then remove it and read the oil level.
4. If the oil level is low, add engine oil according to the "Technical Data" section!

## 20. Exploded Diagram BAUMAX® VP16/46P



## 19. Exploded Diagram BAUMAX® VP16/44



### Check the Fuel Level

Open fuel tank and check the fuel level. When refuelling, always use a filter to ensure that no contaminated fuel enters the tank. Do not allow petrol to overflow! In the event that any fuel is spilled, thoroughly wipe off before the engine is started!

### Check the Belt

Never check the belt tension while the engine is running! If your hands are caught in the belt or the clutch, serious injury can result. Therefore, before checking the belt tension, always remove the petrol engine spark plug cap from the spark plug. Always wear protective gloves when checking the V-belt tension.

To check belt tension, remove the screws on the belt cover and then remove the cover. The belts are correctly tensioned when they can be pushed (between two pulleys) about 10-30 mm in the middle.

## 8. Start-up

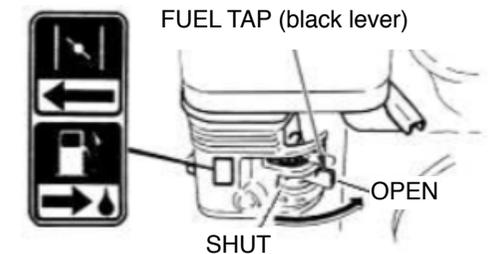
### Preconditions for Starting

There is sufficient fuel in the petrol tank.  
The engine crankcase has the correct oil level.  
The air filter is clean.

### How To Start

1. Open the fuel tap by moving the black lever to the right (in direction of arrow) until it stops.

(Exception: VP10/31 - no fuel tap)

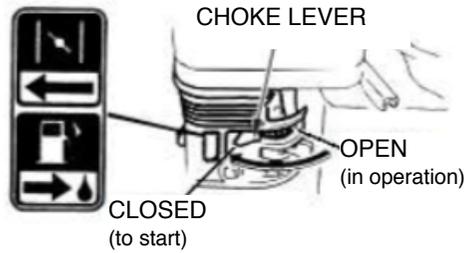


2. Switch the engine ignition to the "ON" position.



3. Move the grey choke lever to the left, into the "CLOSED" position.

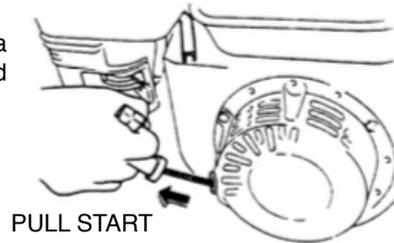
(Exception: VP10/31 - move the silver choke lever to the starting position on the right)



The "CLOSED" position of the choke lever enriches the fuel-air mixture. This is required to start (at cold start as well as a warm start) of the engine. The "OPEN" position provides the correct fuel-air mixture to the engine during normal work (after the start) available.

4. Set the throttle to full throttle position.

5. Pull the starter rope out slowly until a slight resistance is felt; then pull the cord rapidly.

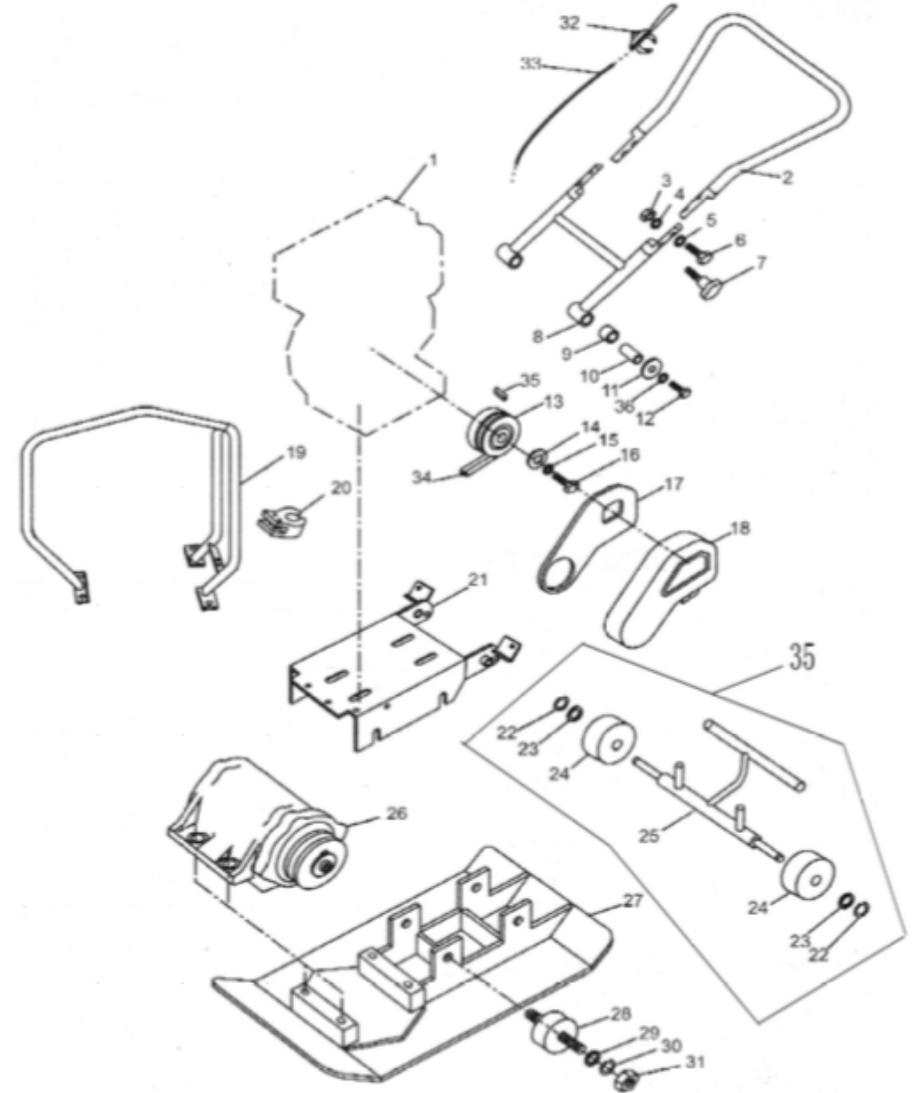


**ATTENTION!**

**DO NOT** pull the starter rope all the way out to the end! Make sure that the cable is retracted as quickly as possible without letting go of it during retraction - so that it is drawn all the way in to the housing.

 If making repeated attempts to start, always wait for the engine to come to a complete stop before trying again.

**19. Exploded Diagram BAUMAX® VP12/35**

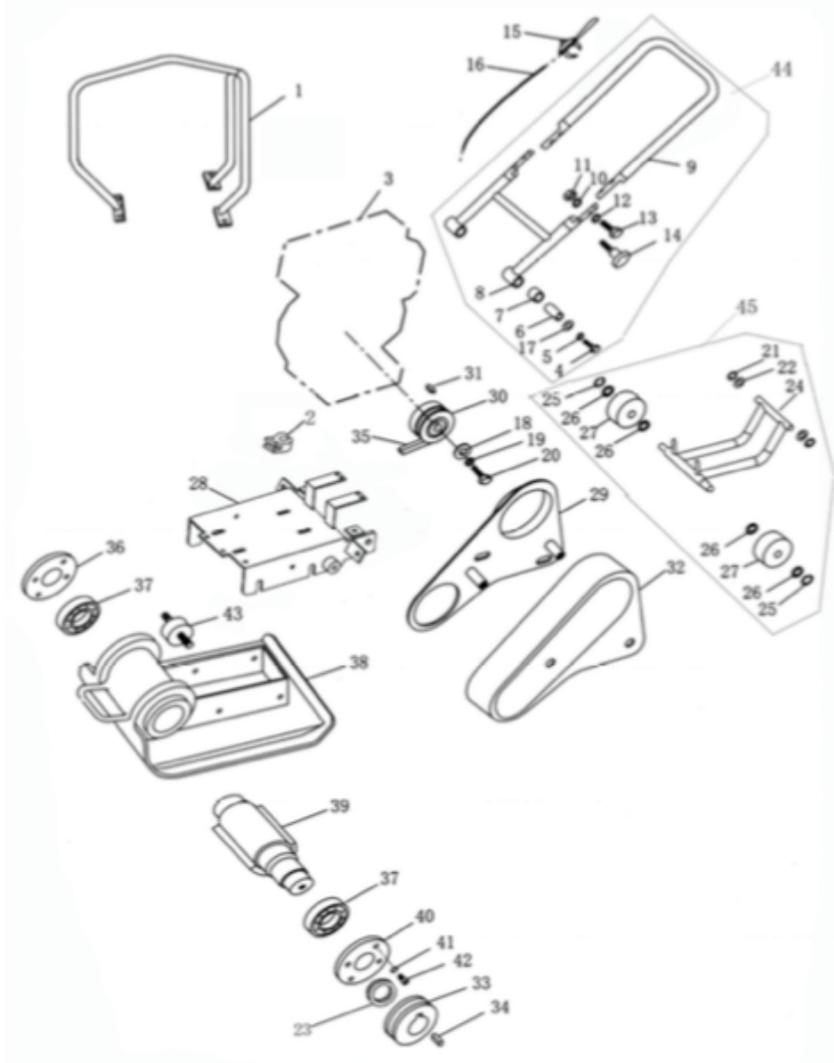


### Carburettor overruns

Float needle valve dirty

Clean carburettor and float needle valve

## 17. Exploded Diagram BAUMAX® VP10/31



6. Place the throttle back to the idle position and allow the engine to warm up for 1-2 minutes depending on the ambient temperature.

7. **After cold start**, if the engine runs smoothly, move the choke lever slowly back to the "OPEN" position after around 5-15 seconds. **After warm start**, move the choke lever to the "OPEN" position immediately.

8. After warm-up, move the throttle lever towards full throttle position until resistance is felt.

**ATTENTION! The throttle lever must not be forced past the full throttle position, otherwise the engine speed limit will be too high, resulting in damage. This can lead to incorrect resonance on other components and thus damage the entire machine. The same applies to increasing the maximum speed setting.**

## 9. Running the Soil Compactor

Normal operation takes place at full throttle. The engine speed can be infinitely varied to some extent on the throttle when a slower forward movement is desired, but it should not be permanently reduced by more than 20% of the full-throttle speed, since the power is transmitted via a centrifugal clutch, which will overheat if running too slowly. This can result in excessive wear or burning of the belt. The soil compactor is steered by the guide handle. To stop, move the throttle back to idle position.

## 10. Shut Down

1. Set throttle to idle position
2. Turn the engine ignition switch to the "OFF" position
3. Always close the fuel tap after turning off

## 11. Care and Maintenance

Before carrying out any maintenance work, turn off the engine and allow to cool. For

devices with petrol engines remove the spark plug and, if necessary, disconnect the battery. If disassembly of any safety equipment is required for maintenance, it must be assembled and checked again immediately after completion of the work. Check for loose screws and tighten according to the specified tightening torques.

**ATTENTION!** If the machine will not be used for more than 3 weeks, empty the fuel tank and carburettor! (Drain plug: angled screw on gold float housing below the carburettor).

### Engine Oil Change

Remove the oil drain plug at the bottom of the engine (there are two - except on VP31/10). Using a suitable hoist, tilt the device forward and allow all the oil to drain into a suitable container. Always dispose of drained oil in accordance with local and national environmental regulations for disposal. Oil changes are best carried out with a warm engine, as warm oil flows much better and the crankcase is better drained. Then, replace the oil drain screw and tighten according to technical data, and fill the appropriate amount of engine oil in the dipstick hole.

### Air Filter

The air filter element should be replaced - whenever necessary - because dirty air filters causes starting problems, reduced engine performance, and can significantly shorten the life of the engine. To replace the air filter, undo the wing nut on the air filter housing. After removing the cover, undo the second wing nut (not available with VP10/31) and take out the filter element. Insert a new filter element, lock with a wing nut and mount the cover in reverse order. When inserting and securing the filter element ensure the correct position and cleanliness of the sealing surfaces!

**ATTENTION!** Operation of the machine with too heavily soiled, defective, or incorrectly seated air filter will cause damage to the engine. Such operation will void the warranty and guarantee.

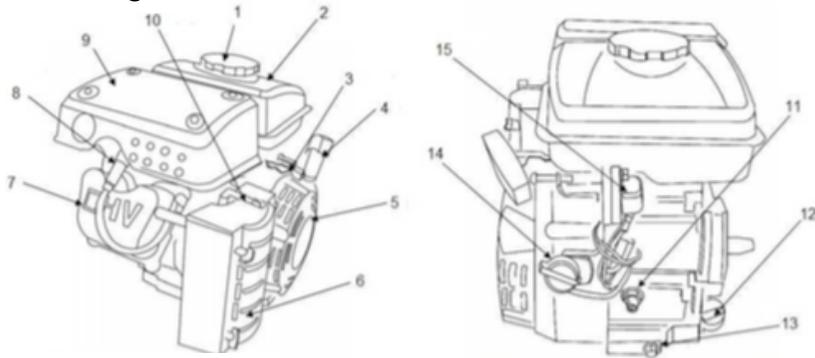
### Belt

**ATTENTION!** Never try to tension the belt while the engine is running! Serious injury can occur from moving belts! Always remove the spark plug from machines with petrol engines before starting any maintenance to avoid accidental starting of the engine!

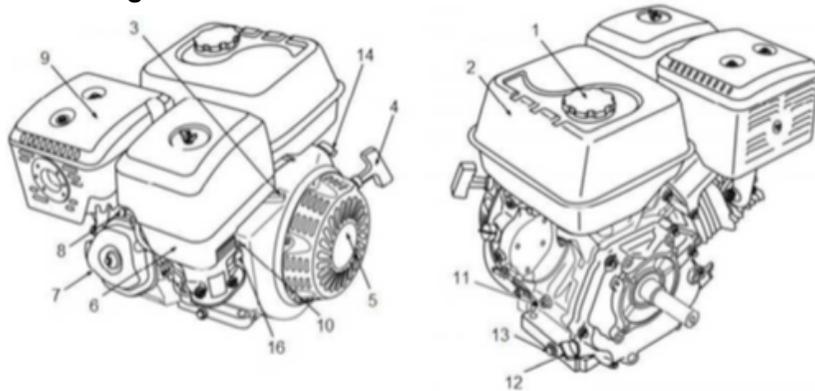
## 16. Fault Finding

Fault	Cause	Solution
<b>Engine emits black smoke</b>		
	Air filter dirty	Replace air filter
<b>Engine doesn't start</b>		
	Air filter dirty	Replace air filter
	Old fuel	Refill with new fuel
	Spark plug wet	Dry spark plug
	No ignition spark	Check ignition / ignition switch
	Clogged carburettor	Clean carburettor and nozzle
	Low engine oil level	Add oil to the correct level
<b>Engine stalls</b>		
	Air filter dirty	Replace air filter
	Choke closed	Check position of the choke lever
	Fuel supply blocked	Check fuel supply / carburettor
	Blocked carburettor	Clean carburettor and nozzle
<b>Engine losing power</b>		
	Air filter dirty	Clean / replace air filter
	Blocked carburettor	Clean carburettor and nozzle
	Defective spark plug	Replace spark plug
<b>Reduced vibration performance</b>		
	Belt loose	Tighten belt
	Engine speed too low	Adjust engine speed
	Worn clutch linings	Replace clutch
	Worn rubber buffers	Replace rubber buffers
<b>Machine does not move freely</b>		
	Deposits built up on lower plate	Clean lower plate
	Belts too tight	Set correct belt tension
	Soil too moist	Allow ground to dry

## 2.0 KW Engine



## 4.8 KW Engine



## 15. Tightening Torques

Tensile Strength	4.6	8.8	10.9	12.9
	<b>Tightening Torque (Nm)</b>			
<b>Thread Size</b>				
M6	3.5	10	15	18
M8	8.4	25	36	43
M10	17	49	72	84
M12	29	85	125	145
M16	71	210	310	365

To check belt tension, remove the screws on the belt cover and then remove the cover. The belts are correctly tensioned when they can be pushed (between two pulleys) about 10-30 mm in the middle.

**IMPORTANT!** Do not over-tension the belt, or the flexibility between upper and lower plates is lost! A loose belt, on the other hand, will lead to reduced power transmission and premature wear.

**ATTENTION!** When the vibrating effect deteriorates noticeably, the belt tension must be checked!

## Adjusting the Belt Tension

### VP10/31, VP12/35, VP16/44, VP 16/46P, VP15/50W

1. Loosen the engine mounting bolts.
2. Remove belt cover.
3. Move the engine manually or by means of a clamping bolt until the correct belt tension is achieved.
4. Re-tighten engine mounting bolts.
5. Refit belt cover.

### VP22/46

1. Remove belt cover.
2. Loosen the 4 nuts that secure the top plate to the 4 rubber pads.
3. Using a suitable lever, lift the upper plate slightly, so that the distance between the top plate and bottom plate is increased, then re-tighten the nuts.
4. Check the belt tension. If the tension is not sufficient, repeat the procedure.
5. Refit belt cover.

### Vibr. Exciter Oil Change (VP10/31, VP12/35, VP16/44, VP 16/46P, VP15/50W)

Remove the black rubber cover on the front of the top plate (only for VP16/44). Unscrew the oil filler plug of the vibratory exciter, located on the lower plate. Tilt the machine using a suitable hoist, allowing all the oil to drain into a suitable container. Always dispose of drained oil in accordance with local and national environmental regulations for disposal. To refill, bring the unit back to a horizontal position and pour oil (as specified in technical data) into the same hole in the exciter. Screw in the oil drain plug and tighten.

## 12. Maintenance Intervals

All maintenance must be carried out at the listed time or working hours interval, whichever comes first!		Before every use	After first 5 hrs	Every 3 months or 50 hrs	Every 6 months or 100 hrs	Every year or 200 hrs
Engine Oil (SAE10W-70)	Check level	X				
	Change		X		X	
Air filter	Check	X				
	Clean	X				
	Replace			X (1)		
Vibration exciter oil (SAE80)	Check level			X		
	Change		X		X	
Fuel line and connections	Check		X			X
Fuel tank and filter	Clean			X		
Spark plug	Check / Adjust				X	
	Replace					X
Idle speed	Check / Adjust					X
Full throttle speed	Check / Adjust		X		X	
Engine cooling fins	Clean	If dirty				
Screws and bolts	Check / re-tighten according to torque table		X	X		
Recoil start	Clean		X earlier if needed			
Cable	Check for damage			X		
Valve clearance	Check / Adjust					X
Belt tension	Check / Adjust tension		X	X		
Rubber buffers	Check			X		
	Replace (recommended)					X
Throttle	Adjust friction	as required				

(1) Replace more frequently in dusty environments (at the latest, as soon as the filter material has a greyish discolouration).

For spare parts contact Engines 4 Industry Ltd [sales@e-4-i.co.uk](mailto:sales@e-4-i.co.uk)

## 13. Technical Data

Model	<b>VP10/31</b>	<b>VP12/35</b>	<b>VP16/44</b>
Operating weight approx (kg)	58	70	100
Engine	Single-Cylinder 4-Stroke Petrol OHV		
Rated capacity	2.0	4.8	4.8
Max permitted speed (rpm)	4200	3600	4000
Engine oil content (l) (SAE10W-40)	0.35	0.5	0.5
Spark plug	E7RTC	F7RTC	F7RTC
Electrode spacing (mm)	0.7	0.7	0.7
Fuel	Unleaded Petrol (RON95) - also Super E10		
Max. permitted inclination	20°	20°	20°
Base plate dimensions (mm)	435x305	510x350	545x460
Vibe. exciter oil content (ml) (SAE80)	60	120	200

Model	<b>VP16/46P</b>	<b>VP15/50W</b>	<b>VP22/46</b>
Operating weight approx (kg)	91	97	110
Engine	Single-Cylinder 4-Stroke Petrol OHV		
Rated capacity	4.8	4.8	4.8
Max permitted speed (rpm)	3600	3600	3400
Engine oil content (l) (SAE10W-40)	0.5	0.5	0.5
Spark plug	F7RTC	F7RTC	F7RTC
Electrode spacing (mm)	0.7	0.7	0.7
Fuel	Unleaded Petrol (RON95) - also Super E10		
Max. permitted inclination	20°	20°	20°
Base plate dimensions (mm)	600x400	500x500	610/440
Vibe. exciter oil content (ml) (SAE80)	200	120	-

Valve clearance **for all models:**  
 Inlet valve: 0.15 mm  
 Exhaust valve: 0.20 mm

## 14. Description - Engine

1. Filler cap
2. Fuel tank
3. Throttle lever
4. Starter handle
5. Pull starter
6. Air Filter
7. Valve cover
8. Spark plug
9. Exhaust and silencer
10. Choke lever
11. Low oil sensor
12. Oil filler and dipstick
13. Oil drain plug
14. On / Off switch
15. Fuel stopcock