

1	APPLICATION	3
2	DESCRIPTION (FIG. A)	3
3	PACKAGE CONTENT LIST	3
4	SYMBOLS	4
5	ADDITIONAL SAFETY RULES FOR CULTIVATORS	5
5.1	<i>To ensure safe operation</i>	5
5.1.1	<u>Operator responsibility</u>	<u>5</u>
5.1.2	<u>Child safety</u>	<u>6</u>
5.1.3	<u>Thrown object hazard</u>	<u>6</u>
5.1.4	<u>Fire and burn hazard</u>	<u>6</u>
5.1.5	<u>Carbon monoxide poisoning hazard</u>	<u>6</u>
5.1.6	<u>Operation on slope</u>	<u>6</u>
6	PETROL SAFETY WARNINGS	7
7	UNPACKING AND ASSEMBLY	7
7.1	<i>Unpack cultivator</i>	7
7.2	<i>Assembly</i>	7
7.2.1	<u>Install the tines</u>	<u>7</u>
7.2.2	<u>Install the wheel</u>	<u>7</u>
7.2.3	<u>Install the handles</u>	<u>7</u>
7.2.4	<u>Install the resistance pole</u>	<u>8</u>
7.2.5	<u>Handles height adjustment</u>	<u>8</u>
8	OPERATING INSTRUCTIONS	8
8.1	<i>Pre-Start Inspection</i>	8
8.2	<i>Start the Engine</i>	8
8.3	<i>Stop the Engine</i>	8
8.4	<i>Normal operation</i>	8
8.5	<i>Adjustment</i>	8
8.5.1	<u>Wheel adjustment</u>	<u>8</u>
8.5.2	<u>Depth adjustment</u>	<u>9</u>

8.5.3	Handlebar adjustment	9
9	TECHNICAL DATA	9
10	NOISE	9
11	MAINTENANCE AND STORAGE	9
11.1	<i>Cultivator maintenance</i>	9
11.2	<i>Engine maintenance</i>	9
11.3	<i>Long term storage</i>	9
12	SERVICE DEPARTMENT	10
13	WARRANTY	10
14	ENVIRONMENT	11
15	DECLARATION OF CONFORMITY	11

CULTIVATOR 140CC POWXG7204

1 APPLICATION

The gasoline cultivator is suitable for cultivating the sandy soil and clayey soil of canopied vegetables base and dry land.

For weedy and deep plots, remove the weeds before using the cultivator to cultivate the land. It is not designed for commercial use.



WARNING! For your own safety, read this manual and the general safety instructions carefully before using the appliance. Your power tool should only be given to other users together with these instructions.

2 DESCRIPTION (FIG. A)

- | | |
|----------------------|---------------------|
| 1. Handle | 8. Fuel cap |
| 2. Clutch | 9. Muffler |
| 3. Accelerator lever | 10. Air filter |
| 4. Clutch cable | 11. Resistance pole |
| 5. Handlebar | 12. Wheel |
| 6. Starter rope | 13. Tines |
| 7. Fuel tank | |

3 PACKAGE CONTENT LIST

- Remove all packaging materials.
- Remove remaining packaging and packing inserts (if included).
- Check that the package contents are complete.
- Check the appliance, the power cord, the power plug and all accessories for transportation damage.
- Keep the packaging materials as far as possible until the end of the warranty period. Then take it to your local waste disposal system.



WARNING Packaging materials are not toys! Children must not play with plastic bags! There is a danger of suffocation!

















- | | |
|------------------------|----------------|
| Spark plug spanner (1) | 2x cable clamp |
| 11-13 wrench (2) | 1x screw |
| Instruction manual (1) | 1x spacer |
| 1 plastic cover | |


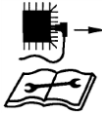



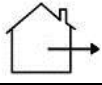



If any parts are missing or damaged, please contact your dealer.

4 SYMBOLS

The following symbols are used in this manual and/or on the machine:

	Denotes risk of personal injury or damage to the tool.		Wear gloves.
	Read manual before use.		In accordance with essential safety standards of applicable European directives.
	Wear goggles and ear defenders when using the device.		No naked flame.
	Engine exhaust contains carbon monoxide. Never operate the product in an enclosed area!		Do not touch a hot silencer or cylinder. You may get burned. These parts get extremely hot from operation. When turned off they remain hot for a short time.
	Wearing of protective shoes advised.		Risk of injury due to flying parts! Always maintain a sufficient safety distance.
	Petrol is flammable. Allow engine to cool for at least 2 minutes before refuelling.		Clutch handle pulled, tine turns.
	Risk of injury caused by rotating machine parts!		Minimum motor revolutions.
	Clutch handle released, unit is running in idle.		Check that there are not fuel leaks. Stop the engine before refill.

	Maximum motor revolutions.		Remove the ignition cable before all maintenance work, and read the instructions for use.
 20W-40 0,6l	Check the engine oil level before start. Capacity: 0.6 litres. Multigrade oil: 20W-40.		Don't expose to rain.
	Do not use the tool without oil inside.		For outdoor use only.
	Start engine creates sparking. Sparking can ignite nearby flammable gasses.		

5 ADDITIONAL SAFETY RULES FOR CULTIVATORS

For your safety and the safety of others, please pay special attention to these precautions

- This cultivator is designed to give safe and dependable service if operated according to instructions.
- Read and understand the owner's manual before operating the cultivator. Failure to do so could result in personal injury or equipment damage.
- Exhaust gas contains poisonous carbon monoxide.
- Never run the cultivator in an enclosed area.
- Be sure to provide adequate ventilation.
- When installed, ventilated protection is to be observed.
- The rotating parts are sharp and they turn at high speed. Accidental contact can cause serious injury.
- Keep your hands and feet away from the parts while engine is running.
- Stop the engine and disengage the tines clutch before inspection or maintenance of tines.
- Disconnect the spark plug cap to prevent any possibility of accidental starting. Wear heavy gloves to protect your hands from the tines when clearing the tines or when inspecting or replacing the tines.

5.1 To ensure safe operation

5.1.1 Operator responsibility

- Keep the cultivator in good operating condition, operating a cultivator in poor or questionable condition could result in serious injury.
- Be sure all safety devices are in working order and warning labels are in place. These items are installed for your safety.
- Be sure the safety covers (fan cover, recoil starter cover) are in place.
- Know how to stop the engine and tines quickly in case of emergency. Understand the use of all controls.
- Keep a firm hold on the handlebars. They may tend to lift during clutch engagement
- Allowing anyone to operate this cultivator without proper training may result in injury.

- Wear sturdy, full-coverage footwear, operating this cultivator, barefoot or with open toe shoes or sandals increases your risk of injury.
- Dress sensibly. Loose clothing may get caught in moving parts, increasing your risk of injury.
- Be alert! Operating this cultivator when you are tired, ill or under the influence of alcohol or drugs may result in serious injury.
- Keep all persons and pets away from the tilling area.
- Be sure drag bar is in place and properly adjusted.

5.1.2 Child safety

- Keep children indoors and supervised at all times while any outdoor power equipment is being used nearby. Young children move quickly and are attracted especially by the tines and tilling activity.
- Never assume children will remain where you last saw them, be alert and turn the cultivator off if children enter the area.
- Children should never be allowed to operate the cultivator, even under adult supervision.

5.1.3 Thrown object hazard

- Objects hit by the rotating tines can be thrown from the cultivator with great force, and may cause severe injury.
- Before tilling, clear the tilling area of sticks, large stone, wires, glasses, etc. Till only in daylight.
- Pieces thrown from worn or damaged tines can cause serious injury. Always inspect the tines before using the cultivator.

5.1.4 Fire and burn hazard

- Gasoline is extremely flammable, and gasoline vapour can explode.
- Use extreme care when handling gasoline. Keep gasoline out of reach of children.
- Refuel in a well-ventilated area with the engine stopped.
- Allow the engine to cool before refuelling. Fuel vapour or spilled fuel may be ignited.
- The engine and exhaust system become very hot during operation and remain hot for a while after stopping. Contact with hot engine components can cause burn injuries and can ignite some materials.
- Avoid touching a hot engine or exhaust system.
- Allow the engine to cool before performing maintenance or storing the cultivator indoors.

5.1.5 Carbon monoxide poisoning hazard

- Exhaust contains poisonous carbon monoxide; a colourless and odourless gas. Breathing exhaust can cause loss of consciousness and may lead to death
- If you run the engine in an area that is confined or even partially enclosed, the air you breathe could contain a dangerous amount of exhaust gas. To keep exhaust gas from building-up, provide adequate ventilation.

5.1.6 Operation on slope

- When tilling on slopes, keep the fuel tank less than half full to minimize fuel spillage.
- Till across the slope (at equally spaced intervals) rather than up and down it.
- Be very careful when changing the direction of the cultivator on a slope.
- Do not use the cultivator on a slope of more than 10°

- The maximum safe grade angle shown is for reference purposes only and should be determined according to the type of the tool. Before starting the engine, check that the cultivator is not damaged and is in good condition. For your safety and the safety of others, exercise extreme care when using the cultivator up or down hill.

6 PETROL SAFETY WARNINGS



WARNING: Use extra care when handling fuels. They are inflammable and the vapours are potentially explosive. The following points must be observed.

- Use only an approved container.
- Never remove the fuel cap or add fuel when the engine is running. Allow engine exhaust components to cool before refuelling.
- Do not smoke.
- Never refuel the machine indoors.
- Never store the machine or fuel containers in places where there is a naked flame, such as a water heater.
- If fuel is spilt, do not attempt to start the power source before moving the machine away from the spillage area.
- Always replace and securely tighten the fuel cap after refuelling.
- Whenever the tank is drained, this should be done outdoors.

7 UNPACKING AND ASSEMBLY

7.1 *Unpack cultivator*

Carefully lift the cultivator out of the box, remove any packing material and cut any ties holding the handlebar pieces to the cultivator assembly.

7.2 *Assembly*

7.2.1 Install the tines

Place and align the tine assembly towards to the shaft (Fig. 1), then fix it by a columniform pin and insert a split pin on the columniform pin to prevent it moving out (Fig. 2).

7.2.2 Install the wheel

Fix the wheel support assembly on the base using a bolt and a nut (Fig. 3), then tighten it using a spring, and insert a B-shape pin on the shaft to prevent the spring moving out (Fig. 4).

7.2.3 Install the handles

Push the plastic cover over the lower ends of the left and the right handle respectively. Mount the plastic cover together with the handles on the arm holder (Fig. 7). Then fasten the handles with the provided bolts and nuts (Fig. 6).

7.2.4 Install the resistance pole

Fix the resistance pole on the base with a columniform pin, then insert a B-shape pin on the columniform pin to prevent it moving out (Fig. 9).

7.2.5 Handles height adjustment

Loosen the two adjustment bolts at the backside of the arm holder, adjust the handles to the desired height, and then fasten the adjustment bolts again.

8 OPERATING INSTRUCTIONS

8.1 Pre-Start Inspection


- Make sure all safety guards are in place and all nuts and bolts are secure.
- Check oil level in engine crankcase.



Important! Engine is shipped from the factory without oil. You must add engine oil before starting engine.

- Inspect air filter for cleanliness.
- Check the fuel supply. Do not fill gas tank completely full, allow space for fuel to expand.
- Be sure spark plug wire is attached and spark plug is tightened securely.
- Check depth regulator lever position.
- Examine underneath and around engine for signs of oil or fuel leaks.
- Inspect fuel hoses for tightness and fuel seepage.
- Look for signs of engine damage.
- Remove excessive debris from muffler area and recoil starter

8.2 Start the Engine

Move the accelerator lever to “” position (Fig. 10).

Grasp starter handle and pull out slowly, until it pulls slightly harder (Fig. 11).

Pull rope with a rapid full arm stroke until engine runs.

After engine starts running, move accelerator lever to the appropriate position (Fig. 12).

8.3 Stop the Engine

Move accelerator lever to “OFF” position (Fig. 13).

8.4 Normal operation

The clutch engages and disengages the power from the engine to the transmission (Fig. 14).

When the clutch lever is squeezed, the clutch is engaged and power is transmitted. Squeeze the lever, the tool will be rotated.

When the lever is released, the clutch is disengaged and power is not transmitted.

Release the clutch lever, the tool will be stopped.

8.5 Adjustment

8.5.1 Wheel adjustment

Pull out the wheel support, and turn to appropriate position.

For moving, turn the wheel to position A (Fig. 15).

For working, turn the wheel to position B (Fig. 16).

8.5.2 Depth adjustment

Draw out the B-shape lock and pin, adjust the resistance pole to an appropriate position, then replace the pin and fix with B-shape lock (Fig. 17).

8.5.3 Handlebar adjustment

Disentangle the fastening bolts on both sides, adjust the handlebar to a suitable position, then tighten the bolts. (Fig. 18)

9 TECHNICAL DATA

Engine displacement	140 cc
Weight	30.5 kg
Max. rotational speed	2850 min-1
Cutting width	400 mm
Blade thickness	3.5 mm
Motor power	2.200 W
Oil tank capacity	0.6 l
Fuel tank capacity	1.0 l

10 NOISE

Noise emission values measured according to relevant standard. (K=3)

Acoustic pressure level LpA	80 dB(A)
Acoustic power level LwA	93 dB(A)



ATTENTION! Wear hearing protection when sound pressure is over 85 dB(A).

aw (Vibration):	4.9 m/s ²	K = 1.5 m/s ²
-----------------	----------------------	--------------------------

11 MAINTENANCE AND STORAGE

11.1 *Cultivator maintenance*

- The transmission case has grease installed at the factory. We recommend checking the grease level every month. DO NOT overfill.
- Keep all screws, nuts, and bolts tight.
- For cold weather operation, store the unit in a cool environment. Transferring the unit from a warm to a cold place can cause the build-up of harmful condensation.

11.2 *Engine maintenance*

Please follow engine owner's manual to maintain the engine.

11.3 *Long term storage*

If your cultivator will not be used for more than one month, prepare it for long term storage.

- Drain the gasoline in the fuel tank and carburettor.
- Check oil. Remove the spark plug, add a little oil into the cylinder, fit spark plug, rotate the crankshaft and let oil be well-distributed in the inside surface of the cylinder.
- Pull the starter rope slowly until you feel resistance, tie a knot to fix the rope, then close the air valve to keep out the dust and other pollutants.

- Remove all debris from cultivator tines and engine.
- Store cultivator in a clean and dry place.

12 SERVICE DEPARTMENT

Damaged switches must be replaced by our after-sales service department.

If the connecting cable (or mains plug) is damaged, it must be replaced by a special connecting cable which is available from our service department. Replacement of the connecting cable should only be carried out by our service department (see last page) or by a qualified specialist (qualified electrician).

13 WARRANTY

- This product is warranted as provided by law for a 36 months period effective from the date of purchase by the first user.
- This warranty covers all material or production flaws excluding : batteries, chargers, defective parts subject to normal wear & tear such as bearings, brushes, cables, and plugs, or accessories such as drills, drill bits, saw blades, etc. ; damage or defects resulting from maltreatment, accidents or alterations; nor the cost of transportation.
- Damage and/or defects resulting from inappropriate use also do not fall under the warranty provisions.
- We also disclaim all liability for any bodily injury resulting from inappropriate use of the tool.
- Repairs may only be carried out by an authorised customer service centre for Powerplus tools.
- You can always obtain more information at the number 00 32 3 292 92 90.
- Any transportation costs shall always be borne by the customer, unless agreed otherwise in writing.
- At the same time, no claim can be made on the warranty if the damage of the device is the result of negligent maintenance or overload.
- Definitely excluded from the warranty is damage resulting from fluid permeation, excessive dust penetration, intentional damage (on purpose or by gross carelessness), inappropriate usage (use for purposes for which the device is not suitable), incompetent usage (e.g. not following the instructions given in the manual), inexpert assembly, lightning strike, erroneous net voltage. This list is not exhaustive.
- Acceptance of claims under warranty can never lead to the prolongation of the warranty period nor commencement of a new warranty period in case of a device replacement.
- Devices or parts which are replaced under the warranty therefore remain the property of Varo NV.
- We reserve the right to reject a claim whenever the purchase cannot be verified or when it is clear that the product has not been properly maintained. (Clean ventilation slots, carbon brushes serviced regularly, etc.).
- Your purchase receipt must be kept as proof of date of purchase.
- Your appliance must be returned undismantled to your dealer in an acceptably clean state, (in its original blow-moulded case if applicable to the unit), accompanied by proof of purchase.

14 ENVIRONMENT

Should your appliance need replacement after extended use, do not dispose of it with the household refuse, but in an environmentally safe way.

Please dispose of used motor oil in a manner that protects the environment. We suggest you take it in a sealed container to your local service station for recycling. Do not throw it into the refuse or pour it on the ground.

15 DECLARATION OF CONFORMITY



VARO N.V. - Joseph Van Instraat 9 - BE2500 Lier - BELGIUM, declares that,
product: Cultivator 140cc
trade mark: POWERplus
model: POWXG7204

is in conformity with the essential requirements and other relevant provisions of the applicable European Directives, based on the application of European harmonized standards. Any unauthorized modification of the apparatus voids this declaration.

European Directives (including, if applicable, their amendments up to the date of signature):

2006/42/EC

2014/30/EU

2000/14/EC Annex VI LwA 90 dB(A) / 93 dB(A)

Testing Authority SNCH

European harmonized standards (including, if applicable, their amendments up to the date of signature):

EN709: 1997-A4: 2009

EN ISO 14982: 2009

Keeper of the Technical Documentation: Philippe Vankerkhove, VARO – Vic. Van Rompuy N.V.

The undersigned acts on behalf of the company CEO,

A handwritten signature in black ink, appearing to read "Philippe Vankerkhove".

Philippe Vankerkhove
Regulatory Affairs – Compliance Manager
16/09/16