Before commissioning the machine, read operating instructions and observe warnings and safety instructions!
Symbols, Name Plate

Please complete:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Symbol]</td>
<td>Warning – Danger</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Important information</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Choke</td>
</tr>
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</tr>
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<td>![Symbol]</td>
<td>Öl</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Engine Start</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Engine Stop</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Engine oil level</td>
</tr>
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<td>![Symbol]</td>
<td>Air filter</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Air cooling</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Visual check</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Fast</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Slow</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Knife shaft drive</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Wheel drive</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Open (unlocked)</td>
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<tr>
<td>![Symbol]</td>
<td>Closed (locked)</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Clockwise</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>Anti clockwise</td>
</tr>
</tbody>
</table>

For name plate, refer to p3/fig. A/12.
For Engine type and number, refer to p3/fig. B/8.
Please state these data when ordering spare parts to avoid wrong deliveries.

**Only use original agria spare parts!**
Specifications, figures and dimensions stated in these instructions are not binding. No claims can be derived from them. We reserve the right for improvements without changing these instructions.

This delivery comprises:
- Operating instructions
- Verticutter – basic machine
- Steering handle with fixings

→agria · Service←
= contact Your agria workshop
Designation of Parts

Figure A

Figure B

Figure C
**Designation of Parts**

**Figure A**

1. Engine  
2. Top part of steering handle  
3. Speed control lever  
4. Handle for wheel drive engagement  
5. Handle for engagement of knife shaft drive  
6. Engine-off switch  
7. Grip handle for fast lift-out  
8. Bowden cable set screw of wheel drive  
9. Bowden cable set screw of knife shaft drive  
10. Wheel scraper  
11. Rear wheel (drive wheel)  
12. Name plate/ID no.  
13. Knife shaft bearing  
14. Front wheel  
15. Knob for slitting depth adjustment  
16. Knife shaft housing  
17. Belt guard

**Figure B**

1. Fuel tank  
4. Starter handle  
5. Recoil starter  
6. Radiator grille  
8. Engine type no.  
9. Engine oil drain plug  
10. Engine oil filler plug  
11. Fuel tap  
13. Spark plug/spark plug connector

**Figure C**

2. Carburetor  
3. Air filter  
4. Governor linkage  
5. Exhaust with guard
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<th>19</th>
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Varnishes, Wear Parts

Inspection and Maintenance Chart

Declaration Conformity

Note fold-out page!

Figs. A, B, C

---

agria Verticutter 8200-V6R 5
Recommendations

Lubricants and Anti-Corrosive Agents

Use the specified lubricants for engine and gearbox (see “Specifications”).

We recommend using Bio-lubricating oil or Bio-lubricating grease for “open” lubricating points or nipples (as specified in the operating instructions).

We recommend using Bio-slushing oil for preservation of machines and implements (do not apply on painted external covers). Oil can be brushed or sprayed on.

Anti-corrosive agents are environmentally friendly and degrade fast.

Using ecologically safe Bio-lubricants and Bio-anti-corrosives, you contribute to environmental protection and to the wellbeing of humans, animals and plants.

Fuel

This engine runs smoothly on commercial unledaded regular and supergrade petrol as well as on leaded supergrade petrol.

Do not add oil to petrol.

If, for environmental reasons, you use unleaded petrol, make sure the fuel is drained completely when shutting down the engine for more than 30 days. This is to prevent resin residue from depositing in the carburetor, fuel filter, and tank. Or add a fuel stabilizer to the fuel.

For further instructions refer to “Engine Preservation”.

Maintenance and Repair

The trained mechanics of your agria workshop carry out expert maintenance and repair.

You should only carry out major maintenance work and repairs on your own, if you have the proper tools and knowledge of machines and internal combustion engines.

Do not hammer against the flywheel with a hard object or metal tools as it might crack and shatter in operation causing injuries and damage. Only use suitable tools for pulling the flywheel.
Unpacking and Assembly

- Open the top of the cardboard box.
- Cut the box open on all four corners and fold down the sides.
- Swivel the top part of steering handle (1) to the rear and mount the mounting parts (2-4).
- Tighten all screwed connections and attach the caps (5) to the nuts.
- Mount the steering bracket (7) with the spring washers (8) and screws (9) at the steering handle.

- Attach the Bowden and electric cables to the steering handle's bottom part, using the cable ties (6). Ensure that all cables are routed properly. Ensure they are not bent or squeezed.

Starting-up
See instructions on page 17.

1 Top part of steering handle
2 Truss head screw M8
3 Oval washer
4 Locking nut M8
5 Nut cap
6 Cable tie
7 Steering bracket
8 Spring washer
9 Screw M6
1. Safety Instructions

Before starting the engine, read the operating instructions and note:

**Warning**

This symbol marks all paragraphs which affect your safety. Pass all safety instructions on to other users and operators.

**Due Use**

With its rotating knives, the verticutter is constructed for use on grassed surfaces for in-depth cleaning and the removal of thatch, moss and flat-growing weeds from the grass (due use).

Any other type of use is considered undue. The manufacturer is not liable for any damages resulting from undue use, for which the risk lies with the user alone.

For reasons of safety do not use the verticutter to drive other tools or attachments. The verticutter (equipped with wheel drive) is not suited for pulling lawn sweepers and spreaders. The same applies for attaching trailers to ride on or transport clippings. The only attachment allowed on the verticutter is the grass collecting box provided by the manufacturer.

Due use includes compliance with manufacturer’s instructions on operation, service and maintenance.

Any unauthorized modifications to the verticutter render manufacturer liability null and void.

**General Instructions on Safety and Accident Prevention**

**Basic Rule:**

The standard accident prevention regulations must be adhered to, as well as all other generally accepted rules governing operational safety, occupational health and road traffic regulations.

Check the verticutter for operational safety each time you take up operation.

Only persons familiar with the verticutter and instructed on the hazards of operation are allowed to use, service and maintain the machine.

Teenagers younger than 16 years are not allowed to operate the verticutter!

Only work in good light and visibility.

Operator’s clothes should fit tight. Avoid wearing loose fitting clothes. Wear solid shoes.

Note the warning and instruction signs on the verticutter for safe operation. Comply for your own safety.

When transporting the verticutter on vehicles or trailers outside the area to be cultivated, ensure that the engine is turned off.

Careful with rotating tools – keep at a safe distance!

The knives may coast due to flywheel mass on the engine. Keep at a safe distance while the shaft is coasting.

Before you service or maintain the verticutter, wait until the shaft has come to a complete stop and remove the spark plug.
1. Safety Instructions

Beware of coasting tools. Before you start working on them wait until they have come to a complete stop.

Do not change engine governor settings. High engine speed increases risk of accidents.

Working Area and Hazardous Area

The user is liable to third parties working within the machine’s working range.

Staying in hazardous area is not permitted.

Check the immediate surroundings of the machine before you start it. Watch out for children and animals.

Before you start work, clear the area from any foreign object. During operation, always watch out for further objects and remove them in time.

For operation in enclosed areas, ensure that a safe distance is kept to enclosures to prevent damage to tools.

Watch out during slitting operation to prevent the knives from hitting obstacles such as border stones, kerbstones, roots, etc.

Shut off the engine before you transport the verticutter outside the area of operation.

Operation and Guards

Before you start the engine

Become familiar with all guards and controls and their functions. Above all, learn how to turn the engine off quickly and safely in an emergency.

Ensure that all guards are fitted and positioned to provide protection.

Starting the engine

Do not start engine in closed rooms. The carbon monoxide contained in the exhaust fume is extremely toxic when inhaled.

Careful when starting the verticutter and during operation. Keep your hands and feet off the rotating knives!

Do not upend or tilt the verticutter when you start the engine.

Do not step in front of the verticutter to start the engine.

When starting the engine, ensure the wheel drive (if equipped) is not engaged.

Do not use assist-starting liquids when using electrical assist-starting devices (jumper cable). Danger of explosion.
1. Safety Instructions

Operation
Never leave the operator’s position at the steering handle while the machine is at work.

Never adjust the handles during work – danger!

The operator always has to keep at a safe distance from the rotor housing as set by the steering handle. This applies in particular for turning the verticutter. Do not pull but push the verticutter when making a turn.

If blockages occur, turn off the engine and clean the machine with an appropriate tool.

In case of damage to the verticutter, immediately turn off the engine and have it repaired.

If steering causes problems, immediately bring the verticutter to a halt and turn it off. Have the malfunction removed without delay.

To prevent the machine from slipping in hillside operation, make sure it is secured by another person who uses a bar or a rope to hold the machine. This person has to walk further up the slope and at a safe distance from the knife shaft housing.

If possible, always work across the slope.

End of Operation
Never leave the verticutter unattended with the engine running.

Before you leave the verticutter, turn off the engine.

Secure the verticutter against unauthorized use. If the machine is equipped with an ignition key, remove the key. For all other versions, remove the spark plug connector to secure the machine.

Grass Collecting Box
If the grass box is not removed/attached properly, stray stones or wood may be thrown out by the rotating knives and injure the operator.

Before you remove the grass box or adjust the slitting depth, shut off the engine and wait until the knife shaft has come to a stop.

Maintenance
Never carry out any maintenance or cleaning with the engine running.

In addition, always remove spark plug connector before you work on the engine.

Regularly check all guards and tools exposed to wear and tear and replace them, if necessary.

Replace damaged knives.

Always wear safety gloves and use proper tools when exchanging knives.

Do not carry out repairs like welding, grinding, drilling, etc. on structural and safety-relevant parts!

Keep the verticutter clean to avoid risk of fire.

Check nuts and bolts regularly for tight fit and re-tighten them, if necessary.
1. Safety Instructions

Ensure that you re-install all guards and adjust them properly after maintenance and cleaning.

Only use original agria spare parts. All other conventional spare parts must correspond to quality and technical requirements specified by agria.

Storage

It is not allowed to store the verticutter in rooms with open heating.

Never park the verticutter in closed rooms with fuel left in tank. Fuel vapours are hazardous.

Engine, Fuel, and Oil

Never let the engine run in closed rooms. Extreme danger of intoxication!

Careful when dealing with fuel. Great danger of fire!

Never refill fuel close to open fire, inflammable sparks or hot engine parts. Do not refill fuel in closed rooms. Do not smoke when refilling!

Refill only with the engine switched off and cooled down.

Do not spill any fuel, use a proper filling device.

In case of fuel-spillage, push the verticutter away from the spillage before you start the engine.

Ensure the fuel is of required quality.

Store anti-corrosive agents and stabilizing liquids out of reach of children. If sickness and vomiting occur, see a doctor. If fuel has contacted eyes, rinse them thoroughly, avoid inhaling of vapours.

Read and observe enclosed instructions.

Before you dispose of opened and seemingly empty pressurised tins (e.g. of assist-starting liquids) make sure they are completely empty. Empty them in ventilated places safe from spark formation or flames. If necessary, dispose of tins in hazardous waste deposits.

Be careful when draining hot oil – danger of burns.

Ensure the oil is of required quality.

Storage is in approved cans only.

Dispose of oil, greases, and filters separately and properly.

Electrical System

Persons having a pacemaker must not touch live parts of the ignition system when the engine is running.
1. Safety Instructions

Explanation of Signs

1. Wear individual protective ear plugs.
2. Wear protective gloves.
3. Wear solid shoes.

Explanation of Warning Symbols

1. Before doing any cleaning, maintenance and repair work, shut off the engine and remove spark plug connector.

2. Keep off the knives while the engine is running!

3. Do not touch rotating machine parts. Wait until they have come to a complete stop.

4. Do not operate the machine without guards! Move guards in place before you take up operation.

Dimensions

- $b = 430$ mm
- $h = 660$ mm
- $l = 740$ mm
- $S = 685$ mm
- $H = 1020$ mm
- $L = 1450$ mm
2. Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td><strong>Engine manufacturer:</strong></td>
<td>Robin</td>
</tr>
<tr>
<td><strong>Type:</strong></td>
<td>EH17D</td>
</tr>
<tr>
<td><strong>Version:</strong></td>
<td>Fan-air-cooled 1-cylinder-4-stroke engine (petrol), overhead valves</td>
</tr>
<tr>
<td><strong>Bore:</strong></td>
<td>67 mm</td>
</tr>
<tr>
<td><strong>Stroke:</strong></td>
<td>49 mm</td>
</tr>
<tr>
<td><strong>Cubic capacity:</strong></td>
<td>172 ccm</td>
</tr>
<tr>
<td><strong>Output:</strong></td>
<td>4.0kW at 3,600 rpm</td>
</tr>
<tr>
<td><strong>Torque:</strong></td>
<td>max. 11 Nm at 2,600 rpm</td>
</tr>
<tr>
<td><strong>Spark plug:</strong></td>
<td>Champion WR 7 AC, NGK BR 6 HS</td>
</tr>
<tr>
<td><strong>Electrode gap:</strong></td>
<td>0.6 mm–0.7 mm</td>
</tr>
<tr>
<td><strong>Ignition system:</strong></td>
<td>Contactless electronic solenoid ignition, ignition point is pre-set, radio remote screened according to VDE 0879</td>
</tr>
<tr>
<td><strong>Valve lash (engine cold):</strong></td>
<td>Intake: 0.08 mm–0.11 mm, Outlet: 0.08 mm–0.11 mm</td>
</tr>
<tr>
<td><strong>Starter:</strong></td>
<td>Recoil starter</td>
</tr>
<tr>
<td><strong>Cold start system:</strong></td>
<td>Choke</td>
</tr>
<tr>
<td><strong>Fuel tank capacity:</strong></td>
<td>3.6 l</td>
</tr>
<tr>
<td><strong>Fuel:</strong></td>
<td>Conventional petrol octane number min. 85 RON (refer to fuel recommendations)</td>
</tr>
<tr>
<td><strong>Air filter:</strong></td>
<td>Dry filter element with foamed pre-filter</td>
</tr>
<tr>
<td><strong>Carburetor:</strong></td>
<td>horizontal, floating</td>
</tr>
<tr>
<td><strong>Mix control screw:</strong></td>
<td>in base setting, approx. 3/8 turn open</td>
</tr>
<tr>
<td><strong>Rated speed:</strong></td>
<td>3,600 rpm</td>
</tr>
<tr>
<td><strong>Top no-load speed:</strong></td>
<td>3,800 rpm</td>
</tr>
<tr>
<td><strong>Idling speed:</strong></td>
<td>1,200 rpm</td>
</tr>
<tr>
<td><strong>Engine oil:</strong></td>
<td>Multi-grade oil SAE 10W-40 API-SC</td>
</tr>
</tbody>
</table>

**Working width:** 50 cm

**No. of knives:** 19

**Slitting circumference:** 220mm Ø

**Shaft speed:** 2,500 rpm

**Rotational direction of knife shaft:** reverse, opposed to travel direction

**Slip clutch:** between knives

**Height adjustment:** Centrally and steplessly via crank bolt; fast lift-out mechanism

**Discharge:** To the rear

**Wheels:**
- Front wheels: 23cm Ø with special ball bearings
- Rear wheels: 23cm Ø

**Wheel drive:** approx. 2.5km/hr

Rear-wheel drive via worm gear with integrated conus clutch and internally toothed gearwheel with overrunning clutch. Engagement is via handle on steering handle. Oil quantity in worm gear: approx. 0.2l

**Steering handle:** foldable

**Noise level:** L₁₀₀ in accordance with EC directive 84/538/EEC

**Vibration acceleration value:** on steering handle grip aₚᵥ = 9.3 m/s² in accordance with ISO 5349 at 85% of rated engine speed with tools at work

**Operability on Slopes:**
Engine performance (oil level is at top “max.” mark) on slopes is satisfactory as long as the operator is still able to walk on the slope and operate the verticutter without extraordinary effort.

**Weight:** approx. 69 kg

**Dimensions:** see page 12
The verticutter agria type 8200-V6R is suited for usual operation in horticulture and turf care.

**Engine**

The four-stroke petrol engine runs on commercial petrol (refer to fuel recommendations).

During the first 20 operating hours (break-in period) do not operate the engine at maximum speed.

**Even after the break-in period** never operate the engine at higher speed than is necessary for the work in hand.

High engine speed is harmful to any engine and considerably affects its longevity. This applies especially for no load operation. Any overspeed (have the engine roar) can result in immediate damage.

**Cooling System**

The engine is fan-cooled. Therefore keep the grille on the recoil starter and the cooling fins on the cylinder clean and free from sucked-in plant trash.

**Idling-Speed**

Always ensure that idling-speed is adjusted correctly. At low speeds and with the speed control lever set to idle, the engine is supposed to run smoothly and without run-out.

**Air Filter**

The air filter purifies the air intake. A clogged filter reduces engine output.

**Ignition System**

The engine is equipped with a maintenance-free, contactless electronic ignition system. We recommend to have necessary check-ups done by an expert only.

**Speed Control Lever**

The speed control lever (A/3) on the steering handle steplessly controls engine speed from min = idling speed to max = maximum speed.

**Engine-shut-off switch**

The verticutter is equipped with a shut-off switch (A/6). This switches the ignition off (engine off).

Position "I" = Operation
Position "0" = Engine off
3. Devices and Operating Elements

Knife Shaft Drive

The machine is equipped with a V-belt clutch with pulley fitted between engine and knife. Actuation is via the handle (A/5).

0 = Handle is moved to the rear
I = Handle is moved forward and knife shaft starts rotating

Do not actuate the handle at high engine speed because this will quickly ruin the V-belt. Ensure the V-belt is adjusted properly. See instructions!

⚠️ Do not tie down this handle.

Wheel drive

Wheel drive is via a worm gear with integrated conus clutch and internally toothed gearwheel with overrunning clutch on the rear wheels.

Engagement/disengagement is via handle (A/4).

Wheel drive engagement

Move the handle to the steering handle to position "I"
– The verticutter moves forward

Wheel drive disengagement

Release the handle which will go to position "0"
– You can now push or pull the verticutter.

⚠️ Do not tie down this handle.

Knife Shaft

19 knives are arranged around the shaft. They are bolted to the shaft at a pretension of 15 Nm (1.5mkg).

● This pretension generates axial friction force which drives the knives. Pretension must not exceed 15 Nm to ensure the slip clutch engages when the machine hits a stone or another obstacle.
3. Devices and Operating Elements

Setting the Slitting Depth

Ensure the engine is shut off and the shaft has stopped.

- Park the verticutter on level ground and turn the knob (A/15 on the knife shaft housing) to set the slitting depth in such a way that the knives barely touch the ground.
- Turn the knob (A/15) to set the desired slitting depth – one turn corresponds to about 1mm depth adjustment.
- The proper slitting depth is 2 mm – 3 mm

Fast Lift-Out

Ensure the engine is shut off and the shaft has stopped.

Use the fast lift-out mechanism to bring the verticutter in transport position to prevent the knives from being damaged when transporting the verticutter on paved paths or concrete tiles.

Transport Position:

- Pull the grip-handle of the fast lift-out mechanism (A/7) all the way out
- Press on the steering handle
- Release the grip-handle and press on the steering handle until the height adjustment mechanism locks into transport position.

Working Position:

- Pull the grip-handle of the fast lift-out mechanism (A/7) all the way out
- Push up the steering handle
- Release the grip-handle and continue pushing up the steering handle until fast lift-out mechanism locks into working position.
4. Commissioning and Operation

Commissioning the Machine

Please note that engine longevity and operational reliability depend to a large extent on its breaking-in. Always allow a cold engine to warm up for some minutes and never operate it at full throttle at the beginning. Make sure the air filter is serviced regularly and to use clean fuel.

Caution: For reasons of transport, the machine is not filled with engine oil! Before you operate the engine the first time, fill in engine oil!

Please note: for the first 20 hours of operation (break-in period) do not use the engine at full power.

For this purpose, park the verticutter in such a way that the engine is level. For the proper oil filling quantity and quality see "Specifications".

Check the oil level after filling.

Check oil level

- Remove the oil plug and clean the dipstick with a clean cloth. Push the dipstick back into the oil reservoir (do not screw it down). Remove the oil dipstick and read the oil level.
- If the oil level is below the bottom notch on the stick, top up engine oil (see specifications), filling it to the rim of the oil filler neck.
- Screw down the plug and tighten it.

Ensure that the plug sits tight in the oil filler neck when the engine is running.

Before each start:

- Check the engine oil-level (see illustration) and top up oil, if necessary – do not add too much oil!
- Check whether the fuel tank contains enough fuel. Do not fill the fuel tank until the fuel overflows. Leave enough approx. 5 mm for the fuel to expand.

Be careful when dealing with fuel. Great danger of fire! Never refill fuel close to open fire, inflammable sparks or hot engine parts. Do not refill fuel in closed rooms. Refill only with the engine shut off and cooled down.

Do not smoke when refilling!

Do not spill any fuel, use a proper filling device.

Do not start the engine in closed rooms. Exhaust fumes contain carbon monoxide which acts toxic when inhaled.

Keep your feet clear off the knife shaft housing.
**Starting the Engine**

- Open the fuel tap (B/9)

- **Engine cold**: Pull the CHOKE lever (C/4)

- **Engine warm**: Leave the CHOKE lever in normal operating position or move it to "middle position"

- Switch the engine-off switch (A/6) to "I", operating position

- Move the speed control lever (A/3) to approx. 1/3 speed position

- Pull the starter cord handle (B/4) until you feel the starter clutch engage. Then pull **hard and fast** to start the engine. After the start, guide the cord back. Do not let it snap back.

- Once the engine is started and let it warm up for a short time. Slowly move the choke lever to operating position (if actuated).
4. Commissioning and Operation

**Shutting off the Petrol Engine**

- Move speed control lever to idling speed and let the engine run idling for about 30 seconds.

- Switch the engine-off-switch to position "0"

- Close the fuel tap

**Note:** The engine-off switch (A/6) also serves as emergency off-switch. In an emergency release the handle for instant engine shut-off.

If the verticutter is downed for a long period, do not turn the engine off by pressing the engine-off-switch. Instead, close the fuel tap and let the engine run until it comes to a stop due to lack of fuel. This is to ensure the carburetor is empty to avoid resin deposits.

Secure the verticutter against unauthorized use. Remove the spark-plug connector.
Verticutter Operation

- Before slitting can be carried out, ensure the turf is cut as short as possible and is swept.
- Do not operate the verticutter on wet lawns and in rainy weather.

Before you start operation remove any obstacles from the area to be slitted. Watch out for obstacles during work.

- Set the slitting depth
- Start the engine (as described in "Starting Engine")

Check function of engagement of knife shaft drive and wheel drive engagement - only operate the machine if these circuits are working!

- Wear individual protective ear plugs and solid shoes
- Engage the knife shaft drive by pressing shortly on the steering handle to tilt the machine for the knives to rotate freely. This is to allow the knife shaft to pick up full speed (V-belt slip)
- Engage wheel drive

Before moving off check the immediate surroundings for children and animals.

Work Speed

For slitting thatched and mossy lawns it may be desirable to switch the wheel drive off and push the verticutter by hand (slower than with wheel drive engaged).
4. Commissioning and Operation

General Comments on Turf Care using a Verticutter

The effects of verticutter treatment
The verticutter is used to remove moss, low growing weeds and matted thatch from the turf to allow air, water, and nutrients to reach the delicate roots.

Why is this treatment necessary?
Lawns suffer in winter and during dry and sunny periods. Sun-burnt grass and moss will seal the surface so that supply of nutrients, water and air to the root zone is no longer sufficient. This will result in short and delicate roots, weak haulms and a pale green. The lawn will loose its groomed appearance. This, however, can be restored by the slitting action of a verticutter.

Verticutter treatment
On extremely thatched areas it is best to give the lawn two passes at right angles.

Slitting should be done twice a year, preferably in spring when the ground is no longer frozen and in late summer – but not later than September to preserve the lawn’s resistance to a possibly cold winter.

It is self-explanatory that the material discharged is swept up and removed.

After this treatment the lawn should not be left exposed to heat, drought and sun for long because it would suffer sun-burns along the cuts. If necessary, irrigate the lawn for 4 –5 days to keep it wet. Even the surface should not dry during this period.
5. Maintenance

Apart from adhering to operating instructions for verticutters, it is also important to observe the following instructions on service and maintenance.

**Warning:** Only do maintenance work with the engine shut off and ignition key removed from the ignition.

*Wear safety gloves when you work near the knives.*

**Engine**

**Check engine oil level**

*Each time before you take up operation and at intervals of 8 operating hours*

- Check only with the engine shut off and in horizontal position.
- Clean the oil filler plug (B/9) and its surrounding parts.
- Remove the oil filler plug. Clean the oil dipstick with a clean cloth and put it all the way back in. Remove the oil dipstick and read the oil level.
- Refill oil, if the oil level is below the bottom dipstick mark. Refill engine oil (see “Specifications”) up to the filler neck’s rim.

**Change Engine Oil**

*The first oil change is after 25 operating hours. Subsequent oil changes are after 50 operating hours or once a year,* depending on which period is completed first. At extreme strain and high temperatures, change oil after every 25 operating hours.

- Open the drain plug (1) and the filling plug (2) and drain the oil into a suitable container or use a suction pump to remove the oil through the filler neck.
- Ensure the waste oil is disposed of properly!
- Retighten the drain plug (1) and tighten it.
- Fill fresh engine oil into the oil filling opening. Refer to Specifications for oil quantity and quality. Use a funnel or a similar device to fill the oil reservoir.
- Replace the oil filler plug (2) and tighten it.

*Only change oil while the engine is still warm, but not hot – danger of burns!*
5. Maintenance

Air Filter

When You take up operation check the air filter (C/3) on dirt, clean it if necessary. 

Clean the air filter after a maximum of 25 operating hours or at 3-month intervals, after some hours in very dusty conditions:

1. Clean the air filter and surrounding parts.
2. Take off the filter cap.
3. Carefully remove the foamed preliminary filter.
4. Wash the foamed preliminary filter in warm lye (do not use petrol).
5. Squeeze the foamed preliminary filter like a sponge and dry it.
6. Remove the filter element.
7. Tap the the filter element against a smooth surface.
8. Do not clean the foamed preliminary filter and the filter element using compressed air and do not soak it in oil!
9. Reinstall the filter element and the foamed preliminary filter.
10. Reposition the filter cap.

Replace immediately damaged filter elements.
5. Maintenance

Cleaning the Cooling System

Clogging of dirt and dust may occur to the cooling system. This may heat up and damage the engine.

- Regularly check the cooling-air screen (B/6) and clean from dust and sucked-in plant trash.
- Remove the fan case at least once a year, preferably before the season starts and clean the cooling fins on cylinder, cylinder head, guide plates and cooling-air screen, both serving for good air circulation.

Exhaust

Regularly clean surrounding parts of muffler (C/5) Free from grass, dirt and inflammable deposits. Danger of fire!

Cleaning the Spark Plug and Re-adjusting the Electrode Gap

After every 100 operating hours or ignition problems:

- Clean the electrodes on the spark plug from dust and dirt using a wire brush.
- Check spark plug gap and, if necessary, re-adjust it to 0.6 - 0.7 mm.

Exchange the spark plug at approx. 200-hour intervals.

Cleaning the Fuel Strainer

Check the strainer on the fuel tap (B/11) at least once a year for water and other impurities.

- Close the fuel tap.
- Remove the fuel strainer and and remove the impurities, replace if damaged.
- Rinse the strainer container in fuel.
- Then screw it back on correctly, to avoid fuel leakage.

Fuel Hoses

Exchange after every 2 years, Exchange leaking fuel hoses immediately.
5. Maintenance

Cleaning the Cylinder Head
After every 400 hours of operation take off cylinder head and remove carbon deposits on the cylinder head, piston crown and valves with a steel brush. Afterwards, clean with soft brush. Exchange the gasket and reassemble it to the cylinder head. Tighten cylinder head screws in turn at 25 Nm.

Readjusting the Valve Lash
After every 400 hours of operation, re-adjust the valve lash. Intake and outlet valve are at 0.08–0.11 mm when the engine is cold.

Cleaning the carburetor
Clean the carburetor every 400 operation hours and then readjust the idle speed.

Idle speed adjusting
Always ensure that idling-speed is adjusted correctly. With the speed control lever set to idle, the engine is supposed to run smoothly and without run-out at low engine speed.

At low speeds, the engine is supposed to continue running smoothly when the speed control lever is at a stop in idling. Adjust the engine speed while the engine is still warm from operation. For this purpose, re-adjust the limiter screw (2) and the mix control screw (1) for idling speed. Then turn the attachment or ad-justing screw to adjust the throttle cable for no play. (For idling speeds refer to “Specifications”).

Governor
For proper function of the engine speed governor and to adjust the upper idling speed, the governor spring has to be in the appropriate hole, see fig.

Any changes to the position of the spring increases the risk of accident and will render the warranty null and void!

Keep governor spring, lever and linkages free from dirt and plant trash at all times.
5. Maintenance

**Wheel drive**

**Worm Gear**

The worm gear is permanently lubricated. Check the oil level once a year.

- Open the plug; the oil should be level with the arrow; if necessary top up transmission oil

(For oil quality see specifications)

The worm gearbox is equipped with an integrated conus clutch. If this clutch slips while the transmission is engaged, adjust it on the Bowden cable set screw (A/9) on the steering handle.

**Caution!** The transmission must come to a stop when the handle (A/4) is released.

**V-Belt Tension**

- Check the V-Belt Tension each time you change the engine oil. The V-belt (2) should flex approx. 15 mm. Tension it if necessary.

- Tension the V-belt if forward-drive is not satisfactory although the handle is pulled.

- Adjusting the V-belt tension is via the adjustment bolts

**Setting the Tension**

- Slightly loosen the locking nuts (2)
- Adjust the adjustment bolts (1) in turns to ensure even adjustment until the belt has the desired tension
- Tighten the locking nuts (2)
5. Maintenance

Replacing the V-Belt
If wheel drive is not satisfactory although the belt has been tensioned, this needs replacement.

- Undo both grub screws (2) by about 1 turn.
- Remove the drive shaft (1) from the engine crank shaft (5)
- This opens a gap between the crank shaft (5) and the drive shaft (1) which allows exchanging the V-belt (3).
- Replace the drive shaft (1) on the crank shaft (5)
- Tighten both grub screws (2)
- Fit the V-belt as illustrated. Otherwise the driving direction is altered and there is no drive.
- Check V-belt tension and adjust it if necessary

⚠️ Only use special agria V-belts.

Wheels
Remove dirt and plant trash from the wheel arch (A/11 + A/14) once a year as a minimum.

The wheels are equipped with automatically lubricated bearings and are maintenance-free.

Wheel Scrapers
The wheel scrapers (A/10) on the rear wheels prevent dirt and plants from collecting on the wheel. Therefore ensure the scraper is fitted as close to the tread as possible:

- Undo the hex nut (2)
- Adjust the scraper (1)
- Retighten the hex nut (2)
5. Maintenance

**Knife Shaft Drive**

**Clutch**

The knife shaft is driven by a V-belt clutch. Adjust the V-belt tension after the first 3–5 operating hours and then when the play on the handle (A/5) is less than 10 mm or when the belt slips.

**Adjustment**

- Remove hex nuts from the belt guard (A/17) and fold down the guard
- Move the handle (A/5) to "I" and keep it in this position
- Tension the V-belt until it is possible to flex it 15mm with effort
- If this is not possible, re-set the cable set screw (A/8) on the steering handle

**Caution!** V-belt drive must come to a stop when the handle is released.

- The pulleys (1+4) have to be in absolute alignment. If this is not the case, loosen both grub screws inside the pulley (1) (with Allen key) and align pulley (1) axially to pulley (4) which drives the knife shaft. Then retighten the grub screws.
- Ensure the belt guide (3) is adjusted in such a way that the distance between the guide bolt and the V-belt is 1.5mm. The guide is adjustable after removing both hex head bolts
- Replace the V-belt if tensioning is no longer possible

*Do not use conventional V-belts but special agria clutch V-belts!*
Knives

19 knives are arranged on the shaft. They are bolted to the shaft at an axial pretension of 15 Nm (1.5mkg).

- The knives are driven by friction force resulting from axial pretension which must not exceed 15 Nm to ensure the slip clutch engages when the machine hits a stone or another obstacle.
- The knives need replacement when they are worn or damaged.

**agria - Service**

⚠️ Only use genuine agria verticutter knives.

Pretensioning the Knives (Slip Clutch)

- At intervals of 25 operating hours check the tension of the tensioning bolt and tighten it.

Adjustment

- Remove the cap (A/13)
- Retighten the tensioning bolt at 15 Nm (1.5mkg)
- Replace the cap

Knife Shaft Bearing

The shaft is supported by two special self-aligning ball bearings. There is a lubrication nipple on each bearing housing.

- Lubricate these nipples at intervals of 25 operating hours, using a grease gun and Bio-lubrication grease.
5. Maintenance

General

- Watch out for fuel and oil leaks and remove them, if necessary.
- Regularly check nuts and bolts for tight fit and retighten them, if necessary.
- Slightly grease all gliding and moving parts (e.g. speed control lever, hand lever bearing, etc.) with Bio-lubrication grease and Bio-lubrication oil.

Cleaning

After each cleaning (washing with water, especially with pressure washer) lubricate all lubrication points, oil the machine, and let the verticutter run for a short time to press the water out.

Apply grease generously and leave a grease ring around the bearings to prevent water, plant sap, and dirt from penetrating.

Clean the engine only with a cloth. Avoid spraying with strong jets of water because water might leak into ignition and fuel system, causing malfunctions.

Storage

For longer periods of no operation prepare the verticutter for storage. Proceed as follows:

a) Clean thoroughly

Repair the paint coat, grease all lubrication points and operate the verticutter for a short time. Then spray all shining parts, in particular the knives, with bio-slushing oil.

b) Engine preservation

- Change engine oil
- Drain the fuel completely or fill fuel tank and add fuel stabilizer (agria No. 799 09).

- Observe enclosed instructions!

Let engine run for approx. 1 minute.

- Fill a tea-spoon (approx. 0.03l) of engine oil into the spark plug opening. Slowly crank the engine.
- Reinstall the spark plug and set the piston to compression with the recoil starter to keep the valves closed.
- Cover the engine
- Slowly crank the engine every 2–3 weeks (spark-plug connector is removed). Then reset the piston to compression.
5. Maintenance / Wiring Diagram

Parking and storing the verticutter

- **Do not** tilt the verticutter forward, backward, or to the side to park, transport, or store it. This is to prevent engine oil from getting into the cylinder and the combustion chamber and transmission oil from leaking from the worm gear. This may result in starting problems and carbonization and damage to the transmission.

- **Only store the verticutter in wet rooms, in rooms where fertiliser is stored, in stables and adjacent rooms as heavy corrosion may be the consequence.**

  Only store the verticutter with the knife drive disengaged (position "0") because this will result in clutch problems due to V-belt deformation.

Wiring Diagram

1 Engine
2 Solenoid ignition system
3 Engine-off-switch (on speed control lever on the engine)
4 Connector
5 Switch in dead stop circuit
6. Troubleshooting

⚠️ Observe safety instructions! Have all serious malfunctions on the machine or engine repaired by your agria workshop. They have the proper tools. Improper repairs can only add to the damage.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Remedy</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine does not start</td>
<td>- Spark plug connector not connected</td>
<td>Connect spark plug connector</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>- Choke lever is not actuated</td>
<td>Actuate Choke lever</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>- Fuel tank empty or poor fuel</td>
<td>Fill fresh fuel</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>- Fuel line clogged</td>
<td>Clean fuel line</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Defective spark plug</td>
<td>Clean, adjust or exchange spark plug</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>- Engine too much fuel</td>
<td>Dry and adjust spark plug and start at FULL THROTTLE</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>(&quot;flooded engine&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Inleaked air due to loose caburetor and suction line</td>
<td>Tighten attachment bolts</td>
<td></td>
</tr>
</tbody>
</table>

| Misfirings in engine | - Loose ignition cable | Fit connector tightly on spark plug, fix ignition cable retaining device, fit connector tightly on ignition cable | |
| | - Clogged fuel line or poor fuel | Clean fuel line, fill fresh fuel | 24 |
| | - Vent opening in fuel tank cap clogged | Exchange fuel tank cap | 17 |
| | - Water or dirt in fuel system | Drain fuel and fill fresh fuel | |
| | - Air filter clogged | Clean air filter or exchange | 23 |
| | - Carburetor misadjusted | Re-adjust carburetor | 24 |

| Engine overheats | - Low engine oil level | Refill oil immediately | 22 |
| | - Impaired cooling | Clean cooling fan grille, clean internal cooling fins | 24 |
| | - Air filter clogged | Clean air filter | 23 |
| | - Carburetor misadjusted | Re-adjust carburetor | 24 |

| Misfirings in engine at high speeds | - Short firing intervals | Adjust spark plug | 24 |
| | - Incorrect idle speed mix | Adjust carburetor | 25 |

| Engine frequently stalls in idle | - Firing interval too long, defective spark plug | Adjust or replace spark plug | 24 |
| | - Carburetor misadjusted | Re-adjust carburetor | 25 |
| | - Air filter clogged | Clean air filter | 23 |

| Engine does not run smoothly clogged or jammed | - Speed control linkage is defective | Clean speed control linkage | 25 |

| Engine does not stop in stop position | - Integrated short-circuiting switch is defective | Check short-circuiting switch and reset it, if necessary | 24 |
| | - Dead stop circuit is defective | Check all electrical lines, connections and switches in the console on the steering handle | | |

| Engine output too low | - Air filter clogged | Clean air filter | 24 |
| | - Loose cylinder head or damaged gasket | Tighten cylinder head, exchange gasket | 25 |
| | - Poor compression | Have engine checked | 24 |
| | - Knife shaft housing is blocked | Clean the housing | |
6. Troubleshooting  
Varnishes, Wear Parts

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Remedy</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>No wheel drive</td>
<td>- V-belt slips</td>
<td>Adjust V-belt tension</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>- Worn V-belt</td>
<td>Replace V-belt</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>- Engagement mechanism defective</td>
<td>Check engagement mechanism</td>
<td>15</td>
</tr>
<tr>
<td>No knife shaft drive</td>
<td>- V-belt clutch slips</td>
<td>Adjust the V-belt clutch</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>- Worn V-belt</td>
<td>Replace V-belt</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>- Knives are not properly pretensioned</td>
<td>Adjust the pretension</td>
<td>29</td>
</tr>
<tr>
<td>Slitting depth too shallow</td>
<td>- Slitting depth is not set properly</td>
<td>Readjust the slitting depth</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>- Worn knives</td>
<td>Replace knives</td>
<td>29</td>
</tr>
<tr>
<td>Verticutter does not run smoothly</td>
<td>- Wheel arc is dirty</td>
<td>Clean the wheel arc</td>
<td>27</td>
</tr>
</tbody>
</table>

* = For this purpose contact your agria workshop.

Varnishes, Wear Parts

agria Order No.

799 09 Fuel stabilizer pouch 5g

⚠️ Please read and observe enclosed instructions!

Varnishes

181 03 Spray varnish birch-green spray tin 400ml
712 98 Spray varnish red, RAL 2002 spray tin 400ml
509 68 Spray varnish black spray tin 400ml

Wear Parts

686 11 Air filer set (paper element + pre-filter)
671 87 Spark plug Bosch WR 7 AC
009 05 Sealing ring 14 x 20 x 1.5 (engine oil drain plug)
684 16 Sealing ring (engine oil dipstick)
736 25 Verticutter knives
736 26 V-belt for knife shaft drive
635 44 V-belt for wheel shaft drive

⚠️ Only use special agria V-belts.

⚠️ Do not use conventional V-belts.

Spare Parts

997 130 Verticutter 8200
### Inspection and Maintenance Chart

<table>
<thead>
<tr>
<th>Task</th>
<th>Frequency</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check the engine-off switch function</td>
<td>K</td>
<td>14</td>
</tr>
<tr>
<td>Check air filter</td>
<td>K</td>
<td>23</td>
</tr>
<tr>
<td>Clean ventilation grille</td>
<td>K</td>
<td>24</td>
</tr>
<tr>
<td>Check engine oil level, refill, if necessary</td>
<td>K,K</td>
<td>22</td>
</tr>
<tr>
<td>First engine oil change, subsequent oil changes</td>
<td>W,W</td>
<td>22</td>
</tr>
<tr>
<td>Tighten cylinder head screws</td>
<td>E</td>
<td>25</td>
</tr>
<tr>
<td>Lubricate knife shaft bearings</td>
<td>K,K</td>
<td>29</td>
</tr>
<tr>
<td>Check engine</td>
<td>K</td>
<td>30</td>
</tr>
<tr>
<td>Check bolts and nuts</td>
<td>K</td>
<td>30</td>
</tr>
<tr>
<td>Clean air filter insert</td>
<td>W,W</td>
<td>23</td>
</tr>
<tr>
<td>Replace air filter insert - earlier, if required</td>
<td>W</td>
<td>23</td>
</tr>
<tr>
<td>Check V-belt tension</td>
<td>W,W</td>
<td>26,28</td>
</tr>
<tr>
<td>Check pretension of knives</td>
<td>W</td>
<td>29</td>
</tr>
<tr>
<td>Clean spark plug, set electrode gap</td>
<td>K</td>
<td>23</td>
</tr>
<tr>
<td>Clean cylinder head</td>
<td>W</td>
<td>25</td>
</tr>
<tr>
<td>Clean guide plates, cooling fins - earlier, if required</td>
<td>W</td>
<td>24</td>
</tr>
<tr>
<td>Replace spark plug</td>
<td>K</td>
<td>23</td>
</tr>
<tr>
<td>Check oil level in the worm gear</td>
<td>K</td>
<td>26</td>
</tr>
<tr>
<td>Clean the wheel arc</td>
<td>K</td>
<td>27</td>
</tr>
<tr>
<td>Lubricate all gliding parts</td>
<td>K,K</td>
<td>30</td>
</tr>
<tr>
<td>Replace fuel hoses</td>
<td>W,*</td>
<td>24</td>
</tr>
</tbody>
</table>

**A** = Each time before you take up operation  
**B** = After each cleaning  
**E** = One-time maintenance to be executed by professional workshop  
**K** = Checks and maintenance to be executed by operator  
**W** = Maintenance to be executed by professional workshop  
* = after 2 years
Declaration Conformity

EG-Konformitätserklärung
EC Declaration of Conformity

Wir erklären, dass das Produkt
Vertikutierer mit Verbrennungsmotor
mit allen einschlägigen Bestimmungen der EG-
Maschinenrichtlinie 2006/42/EG in Übereinstimmung ist.

agria-Werke GmbH
Bittelbronner Str. 42, D-74219 Möckmühl/Württ.

Verklaren dat het produkt
Vertikutueermachine met verbrandingsmotor
voldoet aan de desbetreffende bepalingen
van de EG-machinerichtlijn
2006/42/EG.

De machine voldoet ook aan de desbetreffende
bepalingen van het volgende EG-richtlijnen:
2004/108/EG, 2000/14/EG.

Wir
agria-Werke GmbH
Bittelbronner Str. 42, D-74219 Möckmühl/Württ.

Nous déclarons que le produit
Scarificateur à moteur combustion
est conforme à toutes les exigences respectives
sur les machines 2006/42/CE.

Scarifier with combustion engine
conforms to all relevant specifications of the
Directive on Machinery 2006/42/EC.

La machine est aussi conforme à toutes les
exigences respectives
selon les directives CE suivantes:
2004/108/CE, 2000/14/CE.

It is also conform to all relevant specifications of
the following EC directives:
2004/108/EC, 2000/14/EC.

50 cm
50 cm


La procédure appliquée pour l’évaluation de la
conformité:

Following harmonized standards (or parts of it) or
technical specifications have been applied:

Les normes harmonisées (ou extraits de celles-ci) ou
les spécifications techniques suivantes ont
été appliquées:

De volgende geharmoniseerde normen
( of delen ervan) of technische specificaties
werden toegepast:

La procédure assessment
procedure followed:

Conformity overeenstemmings-
beoordelingsprocedure:

Name und Adresse der
beteiligten benannten
Stelle:

DLG e.V., Max-Eyth-Weg 1,Dd-64823 Groß-Umstadt

Gemessener
Schallleistungspegel:

Le niveau de puissance
acoustique mesuré:

102 dB(A)

Measured sound power
level:

Garantieter
Schallleistungspegel:

Le niveau de puissance
acoustique garanti:

102 dB(A)

Gewaarborgd geluids-
vermogensniveau:

Möckmühl, den 26.02.2010

Siegfried Arndt
Geschäftsführer
Managing Director
Bedrijfsleider

Rudolf Tigges
Leiter Entwicklung & Konstruktion
Head, Research and Development
Hoofd ontwikkeling en constructie

Herr Tigges ist bevollmächtigt die technischen Unterlagen zusammenzustellen.
Monsieur Tigges est habilité à agencer la documentation technique.
Mr. Tigges is authorized to assort the technical documents.
De heer Tigges is gemachtig om de technische documentatie op te stellen.

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Your local agria specialist dealer: