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

Please complete:

<table>
<thead>
<tr>
<th>Machine Type No.: ......................</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identification No.: ...................</td>
</tr>
<tr>
<td>Engine Type: .........................</td>
</tr>
<tr>
<td>Engine No.: ..........................</td>
</tr>
<tr>
<td>Date of Purchase: ......................</td>
</tr>
</tbody>
</table>

For name plate, refer to p3/fig. A/8.
For engine type and number, refer to p38/fig. B/17 and B/18.
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 machine
- Operating instructions engine
- Two-wheeled tractor
- Tool kit

Symbols:

⚠️ Warning – Danger
⚠️ Caution
ℹ️ Important information

Fuel ⬇️ Choke
Engine Start ⏯ Engine Stop
Engine Oil ➔ Engine oil level
Speed control

Air filter ⚔️ Air cooling
Clutch 🔖 PTO
Wheel drive

Forward ⬅️ Reverse
Fast ⬇️ Slow
Brake 🔒 Park brake
Open (unlocked)
Closed (locked)
Transmission Oil
Transmission oil level

Oilng 🔥 Greasing point

Visual check

Wear protective gloves
Wear safety shoes

Operating hours

agtia - Service$ = contact your agria-workshop

see operating instructions engine
Designation of Parts
Designation of Parts

Fig. A

1 Engine
2 Cover/ Mudguard
3 Hitch plate
4 Equipment lock
5 Drive wheel
6 Belt guard
7 Handlebar
8 Name plate / machine identification no.

11 Clutch hand lever / Safety lever
12 Steering clutch lever left
13 Steering clutch lever right
14 P.T.O. shift rod
15 Speed control lever
16 Rotary handle for driving speed and travelling direction
18 Locking screw for steering handle height adjustment
19 Locking screw for steering handle lateral adjustment
20 Tool box
21 Engine shut-off switch
Index

Amount of Delivery .................................. 2
Symbols, Name Plate ............................... 2

Designation of Parts ............................... 3, 42

Recommendations
Lubricants, Anti-Corrosive Agents ........ 6
Fuel .................................................. 6
Maintenance and Repair ........................ 6

Unpacking and Assembly .......................... 7

1. Safety Instructions .......................... 8–12

2. Specifications
Two-wheeled tractor .......................... 13
Noise Level ....................................... 13
Vibration Acceleration Value .................. 13
Engine ............................................. 14
Operation on Slopes .......................... 14

3. Devices and Operating Elements
Engine ............................................. 15
Speed Control Lever .......................... 16
Engine Shut-off Switch .......................... 16
Choke ............................................... 16
Fuel Tap .......................................... 16
Clutch / Safety circuit .......................... 17
P.T.O. Drive ..................................... 17
Travelling Drive ................................. 18
Steering clutch .................................. 18
Coasting Operation ............................. 18
Steering Handle ................................. 19
Attachments ..................................... 20

4. Commissioning and Operation
Commissioning the Machine .............. 21
Starting the Engine ............................ 23
Shutting off the Engine ......................... 24
Working ........................................... 25
Danger Zone .................................... 26
References, Handling .......................... 27

5. Maintenance
Engine ............................................. 28
Cooling Screen .................................. 29
Cooling System .................................. 29
Governor .......................................... 29
Exhaust ........................................... 29
Speed Control .................................... 29
Machine .......................................... 30
P.T.O. Drive ..................................... 30
Steering clutch .................................. 30
Drive-wheels ..................................... 30
Clutch Hand Lever .............................. 31
Safety circuit ..................................... 31
Steering clutch lever ......................... 32
General ........................................... 33
Cleaning .......................................... 33
Storage ........................................... 34

6. Varnishes, Wear Parts ........................ 35

6. Troubleshooting .............................. 36–37

Electrical Wiring ................................. 38

6. Lubrication Chart .............................. 39

6. Inspection and Maintenance Chart ......... 40

6. Conformity Declaration ....................... 43

Note fold-out pages!

Fig. A ................................................. 3
Fig. B ................................................. 42
Recommendations

Lubricants and Anti-Corrosive Agents:

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

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

We recommend using **Bio-slushing oil** to preserve machines and attachments (do not apply on painted covers). You can brush or spray the oil.

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 well-being of humans, animals and plants.

Fuel:

This engine runs perfectly using commercially available lead-free **Normal** and **Super petrol (also E10)** as well as **Super plus**.

**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 see “Engine Preservation”.

Maintenance and Repair:

The trained mechanics of your agria workshop expertly carry out any maintenance and repair work.

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 to pull off the flywheel.
Unpacking and Assembly

- Open the box top.
- Cut the two rear corners open and fold down the side.
- Loosen the locking screw (A/18) until the catches are free
- Adjust the handlebar to the desired height and bring it into the appropriate tooth
- Tighten the locking screw (A/18).

- Carry out all steps for starting-up (see instructions on page 21).

---

**E**

1  Base machine
A/7  Steering handle
A/18  Locking screw for steering handle height adjustment
A/19  Locking screw for steering handle lateral adjustment
1. Safety Instructions

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

Warning

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

Due Use

The two-wheeled tractor is a hand-controlled automatic single-axle machine which can power various implements approved by the manufacturer. The primary areas of use are for mowing, mulching, sweeping and snow clearance (due use).

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

When the two-wheeled tractor is used on public roads, the local national road traffic rules must be observed, e.g. reflectors, lights.

The two-wheeled tractor is not intended for use with a trailer on public roads or as a tractor unit without implements.

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

Any unauthorized changes to the machine render manufacturer liability null and void.

General Instructions on Safety and Accident Prevention

Basic Rule:

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

When driving on public roads, you have to observe the current traffic code.

Accordingly, check the machine for road and operational safety each time you take up operation.

Only persons familiar with the tractor and instructed on the hazards of operation are allowed to use, maintain and repair the tractor.

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

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 tractor for safe operation. Comply for your own safety.

When transporting the tractor 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!

Foreign powered parts shear and crush!

Riding on the attachment during operation is not permitted.
1. Safety Instructions

Mounted or trailed attachments affect the tractor’s driving, steering, braking, and tipping characteristics. Therefore, ensure that steering and braking functions are sufficient. Match operating speed to conditions.

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

Working Area and Dangerous Area

The user is liable to third parties working within the tractor’s working range. Staying in hazardous area is not permitted.

Check the immediate surroundings of the tractor 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 safety distance is kept to enclosures to prevent damage to tools.

Operation and Safety Devices

Before you start the engine

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

Ensure that all guards in place.

With no attachment mounted, make sure PTO-shaft is covered with the protective cap.

Starting the engine

Do not start the engine in closed rooms

The carbon monoxide contained in the exhaust fume is extremely toxic when inhaled.

Before you start the engine set all controls to neutral or idling position.

When starting the engine, do not step in front of the machine and the attachment.

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

Operation

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

Never adjust the handles during work - danger!

For any operation do not leave the operator’s position as defined by the steering handle, especially not when you turn the machine.

Riding on the attachment during operation or in transport is not permitted.

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

In case of damage to the two-wheeled tractor or to the attachment, immediately turn off the engine and have it repaired.

If steering causes problems, immediately bring the machine to a halt and turn it off.

Have the malfunction removed without delay.
1. Safety Instructions

To prevent the machine from sliding on slopes make sure it is secured by another person using a bar or a rope. This person must be located at a higher position than the vehicle at a safe distance from the attachment at work.

If possible, always work horizontally to the slope.

End of Operation

Never leave the two-wheeled tractor unattended with the engine running.
Before you leave the machine, turn off the engine. Then close fuel taps.
Secure the machine against unauthorized use. If tractor is equipped with an ignition key, remove the key. For all other versions, remove the spark plug connector to secure the tractor.

Attachments

Only mount attachments with the engine and PTO switched off.
Always use appropriate tools and wear gloves when changing attachments and parts thereof.
To fit and remove attachments, bring the support leg into proper position and ensure stability.
Secure the machine and attachments against rolling off (parking brake, wheel chocks).
Beware of injuries while coupling attachments.
Couple the attachments as specified and only couple at specified points.
Secure the machine and attachment against unauthorized use and rolling off when you leave the machine. If necessary, install transport or safety devices to provide protection.

Hoeing Attachment

Adjust the guards in such a way that only the sets of blades penetrating the soil are not covered.
When hoeing, make sure the depth bar is adjusted properly.

Mowing Attachment

Handle with care! Sharp blades of the cutter bar may cause injuries when handled improperly! Remove knife guards only for mowing and refit immediately after work has finished.
For transport and storage always fit the knife guards. Secure finger bars additionally with tension springs.
Do not transport the removed cutter bar without knife guards.
When fitting/removing the cutter bar, make sure all blades are protected by the knife guards.
To exchange the knife and to fit/remove the knife driver, make sure that you turn screws and bolts away from the cutting blades to remove them.
To grind the mowing knives, always wear safety goggles and gloves.

Weights

Always fit weights properly and at specified points.

Maintenance

Never carry out any maintenance or cleaning while the engine is running.
Before you work on the engine, always remove spark plug connector (petrol engine only).
1. Safety Instructions

Check regularly and, if necessary, replace all guards and tools subject to wear and tear.

Replace damaged cutting tools.

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

Do not carry out repairs like welding, grinding, drilling, etc. on structural and safety-relevant parts (e.g. coupling devices)!

Keep the machine and the attachment clean to avoid risk of fire.

Check nuts and bolts regularly for tight fit and re-tighten, if necessary.

Ensure that you re-install all safety and 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 machine in rooms with open heating.

Never park the machine 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! For the same reason, also replace damaged exhaust pipes immediately.

Caution with hot engine parts!

The exhaust and other engine parts become very hot, if the engine runs and immediately after turning off. Hold for sufficient distance from hot surfaces and keep children away from the running engine.

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. 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, pull the machine away from the spillage before you start the engine.

Make sure fuel is of specified quality.

Store fuel in approved cans only.

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.

Make sure oil used is of specified quality. Storage is in approved cans only. Dispose of oil, greases, and filters separately and properly.
1. Safety Instructions

Tyres and Tyre Pressure

When working on the tyres, make sure the machine is parked properly and secured against rolling off.

Any repairs are to be carried out by trained mechanics only and with the appropriate tools.

Regularly check air pressure in the tyres. Excessive pressure may cause bursts.

When adding weight, make sure the tyre pressure is correct.

Re-tighten bolts of drive-wheels or check tightness when doing maintenance work.

Electrical System

Persons having a pacemaker may not touch live parts of the ignition system when the engine is running.

Explanation of Signs

Warning Signs

Check engine oil level at least every 8 hours.

When working with the machine, wear individual protective ear plugs.

Wear safety shoes.

Danger - flying objects; keep distance from the machine as long as the engine is running!

Stay clear of hot surfaces.

The exhaust fumes contain breath poisons - keep distance. Do not start and operate the engine in enclosed areas.

Warning: danger of fire - before each fuel fill, shut off the engine and wait until it has cooled off - no open fire.

Before any cleaning, maintenance, and repair work switch off the engine and pull spark plug connector.
2. Specifications

Two-wheeled tractor
agria 2200 Hydro

Dimensions:

\[
\begin{align*}
  a & = 350 \text{ mm} \\
  b & = 580 \text{ mm} \\
  c & = 200 \text{ mm} \\
  d & = 800 \text{ mm} \\
  h & = 800 - 1050 \text{ mm} \\
  l & = 1260 \text{ mm} \\
  A & = (16x6.5-8) \quad 670 \text{ mm} \\
  A & = (4.00-8) \quad 580 \text{ mm}
\end{align*}
\]

Clutch:
V-belt clutch with idler pulley
between engine and gearbox

Only use original agria V-belts!

Driving gearbox: .......... Hydrostatic
................................. Agip SAE 10W40
................................. Filling quantity approx. 1,75 l
Travel speed steplessly:
Forward ..................................... 0 - 7 km/h
Reverse ..................................... 0 - 3 km/h

Steering clutch: ................. both sides
......................... sliding clutch and wheel lock

PTO shaft gearbox: .......... Gearwheel
.............................. Transmission oil Agip Blasia S 220
(Attention: synthetic oil, cannot be mixed with mineral oil)
................................. Filling quantity approx. 1,2 l

Steering handle: .......... vibration damping,
height-adjustable and side-adjustable without tools

Weight: ................. approx. 105 kg

Noise level:
Noise level ............... \( L_p = 86.7 \text{ dBA} \)
in accordance with EN 11201 (at operator’s ear)

Acoustic power level \( L_{WA} = 98.3 \text{ dB(A)} \)
in accordance with EN ISO 3744

Vibration acceleration value:
on handlebar: ............... \( a_{hw} < 2.7 \text{ m/s}^2 \)
in accordance with ISO 5349 at 85% of rated engine speed with tool at work.

Tyres:
................................. 16x6.5-8 (Field tyre)
................................. optional: 4.00-8 (Field tyre)

Tyre pressure: ................. 1.0 bar
### 2. Specifications

#### Engine

**Manufacturer:** Robin  
**Engine type:** EX27D  
**Version:** Fan-air cooled 1-cylinder, 4-stroke petrol ohv engine

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bore:</strong></td>
<td>75 mm</td>
</tr>
<tr>
<td><strong>Stroke:</strong></td>
<td>60 mm</td>
</tr>
<tr>
<td><strong>Cubic capacity:</strong></td>
<td>265 ccm</td>
</tr>
<tr>
<td><strong>Compression ratio:</strong></td>
<td>8.5 : 1</td>
</tr>
<tr>
<td><strong>Output:</strong></td>
<td>6.6 kW at 3,600 rpm</td>
</tr>
<tr>
<td></td>
<td>(9 SAE-PS)</td>
</tr>
<tr>
<td><strong>Max. torque:</strong></td>
<td>18.6 Nm at 2,500 rpm</td>
</tr>
<tr>
<td><strong>Spark plug:</strong></td>
<td>NGK BR-6HS</td>
</tr>
<tr>
<td><strong>Spark plug gap:</strong></td>
<td>0.6–0.7 mm</td>
</tr>
<tr>
<td><strong>Ignition system:</strong></td>
<td>Magneto ignition</td>
</tr>
<tr>
<td></td>
<td>transistor controlled</td>
</tr>
<tr>
<td></td>
<td>radio remote screened according to VDE 0879</td>
</tr>
<tr>
<td><strong>Valve lash (engine cold):</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Intake:</strong></td>
<td>0.15 mm ± 0.02 mm</td>
</tr>
<tr>
<td><strong>Outlet:</strong></td>
<td>0.20 mm ± 0.02 mm</td>
</tr>
<tr>
<td><strong>Starter:</strong></td>
<td>Soft-pull recoil starter</td>
</tr>
<tr>
<td></td>
<td>with automatic decompression</td>
</tr>
</tbody>
</table>

**Fuel tank capacity:** 6.1 l  
**Fuel:** Unleaded petrol  
** octane number at least 91 RON  
** (also E10) refer to fuel recommendations

**Air filter:**  
Dry element filter with foamed preliminary filter

**Carburetor:** Float carburetor

**Rated speed:** 3,600 rpm  
**Top no-load speed:** 3,850 rpm  
**Idling speed:** 1,250–1,600 rpm

**Engine oil:**  
Filling quantity approx. 1.0 l  
Multi-grade oil SAE 10 W40  
SG, SF or higher quality grade

**Operability on Slopes:**  
Continuous operation possible up to 35° inclination (70 %)  
Temporary operation possible up to 40° inclination (83 %)  
(with oil level at “max” = upper level mark)
3. Devices and Operating Elements

The agria two-wheeled tractor type 2200 Hydro is a base power machine and is always operated with an attachment mounted. Therefore, the machine is suited for horticultural, agricultural, forestal operations, as well as for grassland and park maintenance and for winter service work.

Available attachments are:
- mowing
- turf and grounds care
- sweeping
- gravel and salt spreading
- snow dozing and rotary snow cleaning

Engine

The four-stroke petrol engine runs on conventional petrol (refer to fuel recommendations p6). During the first 20 operating hours (break-in period) do not use engine to maximum power. **Even after the break-in period** never use engine at higher speed than 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 screen at recoil starter and cooling fins of 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 blocked 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.

Please note that only the information on the engine is explained here which is necessary for the operation of the two-wheeled tractor.

All other information about the engine may be obtained from the attached engine operating instructions.
### 3. Devices and Operating Elements

**Speed Control Lever**

The speed control lever (A/15) on the steering handle is for stepless setting of engine speed from min. = idle to max. = full throttle.

**Engine Shut-off Switch**

On pressing the switch (A/21), the ignition is turned on or off.

- Position “O” = Engine off
- Position “I” = Operation

The engine shut-off switch also serves as an emergency shut-off. Set the switch to “O” for fast shut-off.

**Choke**

The choke lever (B/10) is on the carburetor.

- Close the choke for cold starts. To do this, move the lever to the left.
- Open the choke for warm starts and operation. To do this, move the lever to the right.

**Fuel tap**

The fuel tap (B/11) is on the carburetor.

- Fuel tap lever turned downwards - O (OPEN)
- Fuel tap lever turned to the right - I (CLOSED)
3. Devices and Operating Elements

**Clutch / Safety Circuit**

The two-wheeled tractor is equipped with a V-belt clutch. Operation is via the clutch lever (A/11).

- If the clutch lever is pressed down (position I), a power connection is created between the engine and both the PTO shaft and the hydrostatic gearbox.

- If the clutch lever is not operated (position O) the clutch is disengaged, i.e. the engine does not drive the PTO shaft and the hydrostatic gearbox.

- The clutch lever is at the same time a safety control which must be operated in two stages:
  1. Pull the locking catch (unlatching)
  2. Press the clutch lever downwards.

**P.T.O. Drive**

The drive for attachments is made through the PTO shaft and a connecting flange.

The PTO shaft is switched on and off with the actuating lever.

**Switching on:**

Push the PTO actuating lever (A/14) up and backwards up to the stop

- when doing this place your thumb on the side of the lever (danger of crushing).

**Switching off:**

Push the PTO actuating lever down and forwards.

Only switch the PTO actuating lever on and off when the clutch lever is not being operated!
3. Devices and Operating Elements

**Travelling Drive**

- By turning the handle (A/16) in a clockwise direction the machine moves forwards with increasing speed up to a maximum of 7 km/h
- By turning the handle (A/16) in an anticlockwise direction the machine moves backwards with increasing speed up to a maximum of 3 km/h
- Central position = Neutral (catch)

**Steering clutch**

The easy-to-operate steering clutch units enable steering and turning without exertion.

*In order to steer and turn to the right* pull the lever (A/13). The right driving wheel is disengaged, stopped and the machine is steered when driving to the right.

*In order to steer and turn to the left* pull the lever (A/12).

**Lever positions:**

- **A** Driving wheel disengaged
- **B** Driving wheel disengaged, retaining pawl (3) can be snapped into place
- **C** Driving wheel is stopped

*Only turn on the incline on embankments.*

**Coasting Operation**

The machine can be pushed when the engine is not in operation if both driving wheels are disengaged using the steering clutch lever

- pull both levers **B** and latch the pawls (3) into place.
3. Devices and Operating Elements

**Steering Handle**

**Steering handle height adjustment**
- Open locking screw (A/18) until all notches are free.
- Swivel the steering handle to the desired height and fit into proper notch.
- Re-tighten locking screw (A/18).

**Steering handle side adjustment**
- Loosen locking screw (A/19) until all notches are free.
- Swivel the steering handle to the desired position and fit into proper notch.
- Re-tighten locking screw (A/19).
3. Devices and Operating Elements

Attachments

⚠️ Only couple and decouple attachments when the engine is stopped. Secure attachments against rolling off. Watch out to avoid getting bruised when coupling the attachment.

The attachments are connected and disconnected using the attachment quick-connection coupling without the need for any tools.

The latch for the attachment connection coupling is at the front on the attachment mounting.

Connecting attachments:
- The attachment mounting on the main device and the connecting port on the attachment device must be clean.
- Lightly grease the connecting port
- Switch PTO shaft drive to "O"
- Pull the locking bolt (A/4) upwards and turn by 90°
  = Lock open
- Remove the protective cap from the connecting port of the attachment
- Insert the attachment into the mounting
- Turn the locking bolt by 90° so that it can move downwards and lock independently into place
  = Lock closed, if not: turn the device a little to the left or to the right.

Disconnecting attachments:
- Pull the locking bolt (A/4) upwards and turn by 90°
  = Lock open
- Pull the attachment out of the mounting
- Place the protective cap onto the connecting port of the attachment.
4. Commissioning and Operation

Commissioning

Please note that durability and operational safety of the engine depend to a large extent on its break-in. Always allow a cold engine to warm up for some minutes and never run it at full throttle at the beginning.

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

Make sure you check and maintain air filters regularly and use clean fuel. Only use branded petrol.

Only use fresh, clean fuel (not older than 3 months) and approved fuel cans to be purchased in special shops. Rusty sheet metal cans or fuel cans not suited for petrol are not permitted.

For the first commissioning or after longer periods of no operation, fill fuel tank to maximum to avoid starting problems.

Be careful when dealing with fuel.

Fuel is easily inflammable and explosive in certain conditions!

- Do not refill in closed rooms.
- Before each fuel fill, shut off the engine and wait until it has cooled off.
- Never refill close to open fire, inflammable sparks or hot engine parts.
- Do not smoke during filling!
- Do not spill any fuel, use a proper filling device.

Do not cause fuel tank to overflow, but leave a 5 mm margin for the fuel to expand.

Note: For reasons of transport, the machine is not filled with engine oil!

Before you operate the engine the first time, fill in engine oil!
4. Commissioning and Operation

Each time You take up operation, i.e. before you start the engine:

1. Sufficient fuel is filled into the tank (B/5)?

2. Air filter (B/4) clean?

3. Check the engine oil level (B/15)

⚠️ Only take two-wheeled tractor into operation with all protective devices mounted and positioned to provide protection!

⚠️ Do not touch or remove the ignition line and spark plug connector while the engine is running.
4. Commissioning and Operation

Do not start engine in closed rooms! Exhaust fumes contain carbon monoxide which acts toxic when inhaled. Keep feet away from coupled attachment.

Starting the Engine

1. Open the fuel tap (B/113).
2. Move the choke lever (B/10) to position “CHOKE”
   - Do not operate the choke in hot temperatures or when the engine is hot.
3. Flick the engine shut-off switch (A/21) to operating position (“I”)
4. Set the PTO shaft drive to "O" and the travelling drive to Neutral (catch)
5. Move the speed control lever (A/15) to a central position (between idling speed and full throttle).
6. Start the engine:
   - The operator’s position during starting is at the handlebars to the right and behind the attachment.
   - Keep out of the danger zone (in particular children).
   Pull the starter rope on the handle (B/9) until the starter clutch engages. Then pull hard and fast to pull the rope all the way out. After the start, let the rope glide back. Do not let it snap back.
7. If the choke was operated, move it back to its original "open" position as soon as the engine has warmed up and is running smoothly.

Caution with hot engine parts!
The exhaust and other engine parts become very hot, if the engine runs and immediately after turning off. Hold for sufficient distance from hot surfaces and keep children away from the running engine.
4. Commissioning and Operation

Shutting off the Engine

1. Move the speed control lever to idling position and let the engine run idle for about half a minute.

2. Flick the engine shut-off switch to position "O".

3. Close the fuel tap.

- Do not move the choke lever to CHOKE position to shut off the engine – danger of fire!

To down the machine for a long period of time, do not press the engine shut-off-switch to stop the engine. Instead, close the fuel tap and operate the engine until it comes to a stop by lack of fuel. This is to ensure the carburetor is empty and to avoid resin deposits.

- Secure the machine against unauthorised use. Remove the spark plug connector.
4. Commissioning and Operation

Operation

Check safety circuit function - only operate the machine if the safety circuit is working!

1. Wear individual protective ear plugs and solid shoes

2. Couple the attachment and start the engine

3. For pto-driven attachments: move pto lever (A/14) to “I”

4. Operate the clutch lever (A/11) and at the same time accelerate; the pto-driven attachment starts moving

5. Adjust to the correct travelling speed according to the attachment using the rotary handle (A/16).

Arbeitsende

1. Set the travelling drive on the rotary handle to "Neutral" (catch)

2. Release the clutch hand lever (A/11)

3. Speed control lever to position "min"

4. For pto-driven attachments: Move the pto-lever (A/14) to position "O"

5. Turn off the engine.
4. Commissioning and Operation

Danger zone

Keep out of the machine’s danger zone during starts and operation. If the operator should notice that a person or animal is staying within this area, the machine must be shut down without delay and must not be operated again before the area is free again.

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

If cleaning becomes necessary during operation, shut off the engine and remove spark plug connector for safety reasons.

If protective coverings are intended for the attachment (e.g. knife guard on the mowing bar), these must be put in place immediately after finishing work.
4. Commissioning and Operation

Safety references for the handling

- Do not run the engine in closed areas, in which dangerous carbon monoxide can accumulate itself.
- Always wear solid shoes and long trousers during working. Do not operate the machine bare-footed or in lightweight sandals.
- Check completely the area, on which the machine is used, and remove all articles, which can be out-thrown by the machine.
- Only work at daylight or good lighting.
- Always wear solid shoes and long trousers during working. Do not operate the machine bare-footed or in lightweight sandals.
- Only work at daylight or good lighting.
- Always pay attention to a safe stand on slopes.
- Only lead the machine in the step speed.
- Always work transverse to the slope, never slope up or downward.
- Be particularly careful, if you change the driving direction on slopes.
- Do not work on excessively steep slopes.
- Be particularly careful, if you turn the machine around or pull it to itself.
- Do not change the basic adjustment of the engine or overspeed the engine.
- Start the engine carefully according to the instructions of the manufacturer and respect on sufficient distance from the feet to the tools.
- Never lead hands or feet to or under turning parts.
- Never lift or carry the machine with running engine.
- The engine is to be turned off: - if you leave the machine; - before you refuel.
- Close the fuel tap after working.
- Never keep the machine with petrol in the tank within a building, in which possibly petrol vapors with open fire or sparks can come into contact or catch fire.
- If the tank is to be emptied, this is to be accomplished outdoor.
- Let the engine cool down, before you store the machine in closed areas.
- Replace for safety reasons worn out or damaged parts.
5. Maintenance

Apart from adhering to operating instructions for two-wheeled tractors, it is also important to observe the following maintenance instructions.

**Warning:** Only do maintenance work with the engine shut off. Always remove spark plug connector from spark plug, to avoid accidentally starting the engine while working on the machine or on the engine.

Always wear safety gloves, when working near mowing knives.

### Engine

#### Checking Oil Level

- Each time you take up operation and after every 8 operating hours!
- Check only with engine s witched off and machine in horizontal position
- Clean oil filler plug (B/15) and surrounding parts
- Unscrew oil filler plug
- Oil level must reach the filling opening
- Refill oil, if oil level is lower than described (see “Specifications”). – Do not overfill!
- Screw oil filler plug back in and tighten.

#### Changing Engine Oil

The first oil change is **after 5 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 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!
- Before you retighten the drain plug (1) inspect the condition of the sealing ring (3). Replace it if necessary.
- 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

Cleaning the Cooling Screen
After long operation, dirt can clog the cooling system. To avoid overheating and damage to the engine, regularly clean cooling screen (B/8). Check each time before you take up operation!

Air-Cooling System
Clean internal cooling fins and surfaces at least every 100 operating hours (earlier in very dusty conditions).

Governor
For smooth engine performance keep governor linkages, springs and actuating devices clean from dust and dirt. Do not bend or twist parts. (Governor linkages on carburetor B/13).

Exhaust
Regularly clean surrounding parts of muffler (B/3). Free from grass, dirt and inflammable deposits.

⚠️ Danger of fire!
Check each time before you take up operation.

Caution with hot engine parts!
The exhaust and other engine parts become very hot, if the engine runs and immediately after turning off. Hold for sufficient distance from hot surfaces and keep children away from the running engine.

Speed Actuating Devices
Ensure all speed actuating devices are adjusted correctly to start, operate and switch off the engine at correct speed rates.

Please note that only the information on the engine is explained here which is necessary for the operation of the two-wheeled tractor.
All other information about the engine may be obtained from the attached engine operating instructions.
5. Maintenance

Machine

P.T.O. Drive

The PTO drive is fitted with a long-term oil volume and no oil change is necessary, however the oil level must be checked and topped up where necessary.

Attention: it is filled with synthetic transmission oil - this cannot be mixed with mineral oil!

- Check transmission oil level before you take up operation and after every 50 operating hours
- Park the machine on level ground and unscrew oil control plug (4)
- The oil must be at the level of the inspection hole, top up with transmission oil in the filler hole where necessary, for this remove the cover (A/2)
- Screw oil control plug (4) back in and tighten
- Refit the cover as necessary if previously removed.

Steering clutch

- The steering clutches must be each lubricated after 25 operating hours with grease on the lubricating nipples.

Drive-Wheels

- Check tyre air pressure (1.0 bar) regularly. For smooth driving, make sure that there is the same air pressure in front and rear tyres respectively.
- For full tractive power, mount wheels with pointed parts of lugs showing in travel direction (wheels seen from above).
5. Maintenance

Clutch Hand Lever/Safety Circuit

Check safety circuit for proper function each time you do maintenance work on the machine.

- When releasing the lever (A/11) with the engine running the driven attachments must automatically come to a standstill and the ratchet must automatically lock into place.

- When the clutch hand lever is pressed the clutch must correctly engage and cause the attachments to turn while the engine is running.

If a re-adjustment is necessary this is done using the adjusting screw on the clutch hand lever.

→agria - Service←

Engine Shut-off Switch

Check engine shut-off switch (A/21) before each operation and each time you do maintenance work on the machine.

- The engine shut-off switch in position „O“, the engine must come to a stop.

- Check electric lines, connections and switch.

→agria - Service←
**5. Maintenance**

**Steering clutch lever**

Check adjustments each time before you operate the machine. If necessary, re-adjust (especially after commissioning the machine during break-in period).

- At lever position **A** the drive to the wheels must be switched on (where necessary move the machine a little back and forth from the handlebar so that the sliding clutches can lock into place)

- At lever position **B** the drive to the wheels must be switched off and the pawl (3) able to be latched into place, but the wheel lock is not yet effective

- At lever position **C** the wheel lock must be effective.

Adjustment is carried out using the bowden cable adjusting screw on the steering clutch lever:

- Loosen counter-nut (2)
- Set bowden cable adjusting screw (1) as required
- Re-tighten the counter-nut (2) against the lever bearing (locking).

*Only operate attachments with all guards in place.*
5. Maintenance

General

- Watch out for fuel and oil leakage and repair, if necessary.
- Regularly check bolts and nuts and retighten, if necessary.
- Slightly grease all gliding and moving parts (e.g. equipment lock) with Bio-lubricating grease and Bio-slushing oil.

Cleaning

Machine

After cleaning the machine with a pressure washer, lubricate all lubrication points immediately, and let the machine run for a short time to press water out.

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

Engine

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

Storage

For longer periods of no operation prepare the two-wheeled tractor for storage. Proceed as follows:

a) Clean thoroughly

Repair paint coat, lubricate lubrication points and operate the machine for a short time. Then spray all shining parts, in particular cutter bar, with Bio-slushing oil.

b) Engine preservation

- Drain the fuel completely from the system:
  
  Petrol is an extremely inflammable and sometimes even explosive fuel. Do not smoke within the machine’s operating range and keep away fire and sparks.

- Drain the petrol into a suitable container or add fuel stabiliser (agria No. 799 09).

- Fill the fuel tank, then add stabilizer - observe instructions!
  
  Operate the engine for approx. 1 minute.

- Change the engine oil

- Fill a tea-spoon of engine oil (approx. 0.03l) into the spark plug opening. Slowly crank the engine.

- Reinstall the spark plug and pull the starter rope until you feel resistance. This closes the intake and outlet valves to improve the engine’s protection from internal corrosion.

- Crank the engine slowly at 2–3 week intervals (spark plug connector is removed).

c) Drive-wheels

Support drive-wheels in such a way that tyres have no ground contact. Pneumatic tyres are quickly destroyed, if left standing under load and un-inflated.

d) Storing the machine

To avoid severe corrosion:

- to preserve the machine from atmospheric influences

Do not park the machine in:

- humid rooms

- in rooms where fertilizer is stored

- in stables or adjacent rooms.

e) Protect machine

with cloth or a similar cover.
Varnishes, Wear Parts

agria Order No.

799 09       Fuel stabilizer       pouch       5 g

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

Emergency Tyre Repair:

713 13       Tyre sealing gel Terra-S       bottle       1l

Wear Parts

400 318       Air filter element Dual
455 007       V-belt

⚠️ Note: Only use original agria V-belts!

Spare Parts

997 166       Two-wheeled tractor 2200 Hydro and attachments
997 077       Robin engine
### 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></td>
</tr>
<tr>
<td></td>
<td>- Choke is in position CHOKE</td>
<td>Set Choke-lever to position “CHOKE”</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>- Fuel tank empty or poor fuel</td>
<td>Fill fresh fuel</td>
<td>21</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>BM</td>
</tr>
<tr>
<td></td>
<td>- Engine too much fuel (“flooded engine”)</td>
<td>Dry and clean spark plug and start at FULL THROTTLE</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Inleaked air due to loose caburetor and suction line</td>
<td>Tighten fastening screws</td>
<td></td>
</tr>
<tr>
<td>Misfirings in engine</td>
<td>- Engine running in CHOKE range</td>
<td>Set CHOKE-lever to operating position</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>- Loose ignition cable</td>
<td>Firmly connect spark plug connector to spark plug, fix ignition cable retaining device, fit connector tightly on ignition cable</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Clogged fuel line or poor fuel</td>
<td>Clean fuel line, fill fresh fuel</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>- Vent opening in fuel tank cap clogged</td>
<td>Exchange fuel tank cap</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Water or dirt in fuel system</td>
<td>Drain fuel and fill fresh fuel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter or exchange</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td><strong>BM</strong></td>
</tr>
<tr>
<td>Excessive temperature in engine</td>
<td>- Low engine oil level</td>
<td>Refill oil immediately</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>- Impaired cooling</td>
<td>Clean cooling fan grille, clean internal cooling fins</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td><strong>BM</strong></td>
</tr>
<tr>
<td>Misfirings in engine at high speeds</td>
<td>- Short firing intervals</td>
<td>Adjust spark plug</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Incorrect idle mixture</td>
<td>Adjust carburetor</td>
<td><strong>BM</strong></td>
</tr>
<tr>
<td>Engine frequently stalls in idle</td>
<td>- Firing interval too long, defective spark plug</td>
<td>Adjust or replace spark plug</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td><strong>BM</strong></td>
</tr>
<tr>
<td>Engine does not run smoothly</td>
<td>- Speed control linkages clogged or jammed</td>
<td>Clean speed control linkages</td>
<td>29</td>
</tr>
<tr>
<td>Engine does not stop when set to stop</td>
<td>- Defective connection at the switch</td>
<td>Repair connection</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Defective engine shut-off switch</td>
<td>Replace switch</td>
<td></td>
</tr>
</tbody>
</table>
## 6. Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Remedy</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine output too low</td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Loose cylinder head or damaged gasket</td>
<td>Tighten cylinder head,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Poor compression</td>
<td>exchange gasket</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Have engine checked</td>
<td></td>
</tr>
<tr>
<td>Travelling drive or attachment does not stop when the clutch lever is released</td>
<td>- Incorrect clutch hand lever adjustment</td>
<td>Adjust clutch hand lever</td>
<td></td>
</tr>
<tr>
<td>Clutch does not engage</td>
<td>- Clutch lever not correctly adjusted</td>
<td>Adjust clutch lever</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>- V-belt worn or defective</td>
<td>Replace V-belt</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Defective Bowden cable</td>
<td>Replace Bowden cable</td>
<td></td>
</tr>
<tr>
<td>Travelling drive does not stop in position “N” (Neutral setting)</td>
<td>- Bowden cables on rotary handle incorrectly adjusted</td>
<td>Adjust Bowden cables</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Defective Bowden cables</td>
<td>Replace Bowden cables</td>
<td></td>
</tr>
<tr>
<td>Function of the wheel clutch/stop function not OK/knocking noise</td>
<td>- Bowden cables are not adjusted properly</td>
<td>Adjust Bowden cables</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>- Defective Bowden cables</td>
<td>Replace Bowden cables</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Claws worn</td>
<td>Replace claws</td>
<td></td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>- Attachment bolts loosened</td>
<td>Tighten attachment bolts</td>
<td>33</td>
</tr>
</tbody>
</table>

* = For this purpose contact your agria workshop.
BM = See engine operating instructions!
Electrical Wiring

Elektrical Wiring

1 Engine flywheel
2 Ignition coil unit
3 Spark plug
4 Engine shut-off switch
Lubrication Chart

1 Engine oil (page 28)
2 Transmission oil (page 30)
3 Wheel gear shift system (page 30)
# Inspection and Maintenance Chart

<table>
<thead>
<tr>
<th>Task</th>
<th>Action</th>
<th>After operating hours</th>
<th>min. every 3 months</th>
<th>min. yearly</th>
<th>B</th>
<th>page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check safety circuit</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>Check engine shut-off switch</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>Check adjustment hand lever</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>32</td>
</tr>
<tr>
<td>Check air filter</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
</tr>
<tr>
<td>Clean cooling-screen</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>29</td>
</tr>
<tr>
<td>Check engine oil level, refill, if necessary</td>
<td>K K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>28</td>
</tr>
<tr>
<td>Clean surrounding parts of exhaust</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>29</td>
</tr>
<tr>
<td>First engine oil change</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>28</td>
</tr>
<tr>
<td>subsequent oil changes</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>28</td>
</tr>
<tr>
<td>Lubricate steering clutch</td>
<td>K K K</td>
<td></td>
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<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Cleaning</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>Check bolts and nuts</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>Clean air filter insert</td>
<td>W W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
</tr>
<tr>
<td>Check transmission oil level</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Clean fuel strainer</td>
<td>K K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
</tr>
<tr>
<td>Replace air filter insert, earlier, if required</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
</tr>
<tr>
<td>Clean spark plug, adjust gap</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
</tr>
<tr>
<td>Replace spark plug</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
</tr>
<tr>
<td>Clean guide plates, cooling fins – earlier, if required</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>29</td>
</tr>
<tr>
<td>Replace fuel hoses</td>
<td>W*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
</tr>
</tbody>
</table>

A = Each time before you take up operation  
B = After each cleaning  
BM = See engine operating instructions  
K = Checks and maintenance to be executed by operator  
W = Maintenance to be executed by professional workshop  
* = after 2 years

---

If the machine is used in a very dusty conditions or is placed under heavy loads, the maintenance intervals must be shortened, depending on the dirtiness of the oil, the amount of clogging of the filter elements, the wear on parts etc.
Designation of Parts

Fig. B

1 Spark plug / spark plug connector
2 Exhaust fumes outlet
3 Exhaust muffler cover
4 Air filter
5 Fuel tank
6 Fuel tank cap
8 Cooling screen
9 Starter lever
10 Choke lever
11 Fuel tap
12 Coarse fuel filter
13 Carburetor
15 Dip stick / oil filling opening
16 Oil drain plug
17 Engine no.
18 Engine type sign
Declaración de Conformidad

Wir erklären, dass das Produkt

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

Hydrostatischer Geräteträger

2200 021


Folgende harmonisierte Normen (oder Teile davon) oder techn. Spezifikationen wurden angewendet:


Möckmühl, den 10.03.2011

Siegfried Arndt
Geschäftsführer

Rudolf Tiggges
Leiter Entwicklung & Konstruktion

Managing Director

Bedrijfsleider

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

Anschrift/adresse/address/adresse:
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Your local **agria** specialist dealer: