Translation of the original Operating Instructions

Two-wheel tractor
agria 3600

Petrol engine: Honda

3600 075; 3600 325

Before commissioning please read the operating instructions and note the safety and warning information!

Operating Instructions No. 998 466GB  04.18
Nameplate

Please enter here:

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
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<tr>
<td>Machine art. no.</td>
<td>.................................................................................................</td>
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<tr>
<td>ID/machine no.</td>
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<tr>
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<tr>
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For nameplate see page 4, Fig. A/16
Petrol engine: For engine no. see page 75, fig. C/6
Please provide this information for each spare parts order, to prevent errors in delivery.

Only use genuine Agria spare parts!

The technical data, illustrations and dimensions provided in these operating instructions are non-binding. No claims may be derived from them. We reserve the right to make improvements without amending this manual.

Scope of delivery

(please check):

- Two-wheel tractor, base machine
- Steering bar
- Switching rods
- Wheel flanges, only 3600 (2+2)
- Oil dipstick
- Tool kit
- Original Operating Instructions
- Original engine operating instructions
- Machine identity card (in envelope on outside of box)

Please complete the machine identity card and return it to Agria-Werke.
Symbols

Warning symbol, reference to danger point

Attention

Important information

Fuel

Choke

Engine

Engine start

Engine stop

Engine speed

Engine oil level

Air filter

Clutch

Wheel drive

forward

reverse

Fast

Slow

Transmission oil level

PTO shaft

Closed (locked)

Open (unlocked)

Visual inspection

Attachment point for recovery, lashing, towing

Wear protective gloves

Wear safety shoes

Fan cooling

Oil lubrication point

Grease lubrication point

Maintenance interval

Before each start-up

After each cleaning (in particularly with a high-pressure cleaner)

Annually

See separate engine operating instructions

- agria-Service - = contact your agria service centre
Designation of parts

A

B

3600 (2+2)

3600 (3+2)
Fig. A

1. Fuel tank
2. Fuel tank cap
3. Toolbox
4. Lower bar
5. Handlebars
6. Latch for lateral and swivel movements of the steering bar
7. Plug
8. Coupling jaw
9. Lynch pin
10. Latch for implement attachment
11. Reverse locking pin
12. Implement connection with integrated PTO shaft
13. Ballast carrier and engine safety bar
14. Engine
15. Gearbox oil filler opening and dipstick
16. Nameplate (Ident/machine no.) (right, in driving direction)
17. Single-wheel brake
18. Wheel flange
19. Transmission oil drain plug

Fig. B

1. Safety lever
2. Notch lever for steering bar height adjustment
3. Speed control lever
4. Engine stop switch
5. Manual clutch lever
6. Shifting rod for PTO shaft with rear implement attachment
   Gear shifting rod with front implement attachment
7. Gear shifting rod with rear implement attachment
   Shifting rod for PTO shaft with front implement attachment
8. Overdrive shifting rod
9. Stop pawl for wheel switching
10. Hand lever for single-wheel brake left with rear implement attachment
    Hand lever for single-wheel brake right with front implement attachment
11. Hand lever for single-wheel brake right with rear implement attachment
    Hand lever for single-wheel brake left with front implement attachment
12. Latch for lateral and swivel movements of the steering bar
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Unpacking and assembly instructions

**Unpacking**

Open the top lid of the cardboard box. Cut the cardboard box at all four edges, and fold down the cardboard walls.

Packaging should be recycled in an environmentally friendly manner.

**Assembly**

Although handlebars with lower bar and base engine are not assembled, they are connected with each other via the Bowden cable.

Unpack both modules. Rotate the steering bar through 180° (put it in two-wheel tractor position) and install it into the steering tower:

Unscrew grub screw (3) and hexagonal nut (locknut) until you can insert the steering bar (1) into the steering tower (2).

Insert the steering bar.

Route the Bowden cables as shown in the figure in accordance with the version 3600 (2+2) or (3+2) (the Bowden cables for the clutch at the left in driving direction).

Take note of the bar turning lock (5).

Screw in the grub screw until you can feel a slight resistance. Turn the grub screw back by 1/4 revolution and lock it with the hexagonal nut.

- Swivelling the steering bar must be easy.

Install the shifting rods. Insert the shifting rods for gear and PTO shifting into the joint elements at the shift levers at the gear side, and secure them with cotter pins A.

Check the Bowden cables to ensure that they are neither kinked nor pinched.

Install the front ballast at the engine safety bar.
The engine is filled with gear oil when it is delivered. To prevent oil from leaking during the transport, a plug is installed instead of the oil dipstick. Replace the plug with the oil dipstick. See figure.

The machine tyres are not contained in the cardboard box. They are delivered separately. Combine only tyres that are approved in the Agria sales list.

Version 3600 (2+2): Rigid hexagonal wheel shaft

- **Installing the driving wheels:**
  - **4.00-8:** Install the driving wheels with wheel bolts and washers to the wheel flanges. Slip them on the hexagonal wheel shaft such that the arrow-shaped tyre pattern points in the driving direction. Insert the lynch pin through the wheel hub and shaft bore, and close the lynch pin.
  - **4.00-10:** Screw the wheel adapter flanges on the driving wheels. Install the driving wheels with the wheel bolts and washers on the wheel flanges. Slip them on the hexagonal wheel shaft such that the arrow-shaped tyre pattern points in the driving direction. Insert the lynch pin through the wheel hub and shaft bore, and close the lynch pins.
Version 3600 (3+2): Steering brake

- Installing the driving wheels:
  - **4.00-8**: Install the driving wheels with the wheel nuts and washers on the wheel flanges such that the arrow-shaped tyre pattern points in the driving direction.
  - **4.00-10**: Screw the wheel adapter flanges on the driving wheels. Next, install the driving wheels with the wheel nuts and washers on the wheel flanges such that the arrow-shaped tyre pattern points in the driving direction.

- Installing the overdrive shifting rod:
Insert the shifting rod from below into the shifting rod guide (I). Screw on the handle ball (II), plug the shifting rod on the gearshift lever (III) and secure it with a lynch pin (IV).

Performing initial startup. See page 40.
1 Safety Instructions

Before commissioning, please read the operating instructions and note:

Warning symbol

This symbol has been used throughout these operating instructions to highlight all sections relevant to your safety. Also pass on all safety instructions to other users.

Intended use

The machine meets the current state of the art and complies with the applicable safety regulations at the time of marketing within the context of the approved use. In terms of design it was not possible to eliminate either the foreseeable misuse or the remaining risk without limiting the functionality in accordance with the regulations.

The agria 3600 two-wheel tractor is a manually guided, self-propelled, single-axle machine which can pull implements that are approved in the Agria sales list. Utilization for soil cultivation, winter service, sweeping, mowing grass and meadows (intended use).

Any other use is considered to be contrary to the intended purpose. The manufacturer is not liable for any damages resulting from such use and the risk is entirely the user's own.

Intended use also includes observance of the operating, servicing and maintenance conditions stipulated by the manufacturer.

Unauthorized changes to the machine, especially to the safety equipment, may lead to increased levels of danger, which would rule out any manufacturer liability for resulting damage.

When using the machine on public roads - and when being transported - the national road traffic regulations of the relevant country must be complied with (marking, lighting, etc.).

ATTENTION: Never use the machine on public roads with a trailer. The approval requirements are not fulfilled.

A trailer for operation with the two-wheel tractor is not included in the Agria sales program. An expertise to obtain an individual homologation (to German §21 StVZO) for the two-wheel tractor is not available from the manufacturer.

Any unauthorized combination of the two-wheel tractor with a trailer excludes any liability of Agria.

The machine is intended to be used in commercial and in private applications.

The machine must be operated as directed in the operating instructions. Other operators must given instruction if required.

Any improper use or execution of activities at the machine not described in these instructions constitutes unauthorized misuse and is not within the statutory limits for liability of the manufacturer.

Improper use of the machine can endanger people and may result in damage to the machine or other property of the operator. It can also impair the functionality of the machine.

Reasonable foreseeable misuse

Foreseeable misuse and improper handling include inter alia:

- Removal or manipulation of protective and safety devices
- Use of non-approved add-on devices
- Failure to observe maintenance intervals
- Omitting measurements and tests for the early detection of damage
- Failure to replace wearing parts
1 Safety Instructions

- Incorrectly executed maintenance or repair work
- Improper use.
- Working with defective electrical or mechanical devices
- Transport and manoeuvring movements with add-on devices switched on

General safety and accident prevention regulations

Basic rule:
Please observe the relevant accident prevention regulations as well as the generally recognized rules pertaining to safety, occupational health and traffic laws.

The use of public transportation routes is subject to the Road Traffic Act in its latest version.

Please check the traffic and operating safety of the machine before each commissioning!

The machine may only be used, serviced and repaired by persons who are familiar with it and have been instructed in the hazards involved.

Persons under the age of 16 must not operate the machine!

Only work with good visibility and in good lighting conditions.

Operator clothing must fit tightly. Wear safety shoes!

The affixed warning and information signs provide important information for safe operation; please observe them for your own safety!

The engine must be switched off for transport on motor vehicles or trailers outside the working area.

Be careful with rotating tools - keep a safe distance!

Be careful with coasting tools. Before you start working on them, wait until they have come to a complete stop!

There is a risk of crushing and shearing on power-operated parts!

Riding on the implement during operation is not permitted.

Driving behaviour, steering – and possibly – braking capability and tipping behaviour are influenced by attached or suspended devices and loads. Therefore ensure adequate steering and braking capability.

Match the operating speed to the conditions.

Do not adjust the setting of the engine speed governor. A high speed increases the risk of accidents.

Working area and danger zone

The working area is the entire area to be worked on. The user is responsible for third parties in the working area.

Staying in the danger zone of the machine is not permitted (see page 44).

Check the work area before starting and moving. Pay special attention to children and animals.

Foreign objects are to be removed from the area to be worked on prior to starting work. Look out for additional foreign objects while working and remove these promptly.

For operation in enclosed areas, ensure that a safety distance is kept from edges to prevent damage to tools.

Operation and protective devices

Before you start work

Familiarize yourself with the equipment and operating elements and their functions. Above all, learn how to turn the engine off quickly and safely in an emergency!
Ensure that all protective devices are mounted and properly adjusted!
If no add-on device is attached, the PTO shaft must be switched off and covered with the protective cap.
Suitable shoes must be worn depending on the type of ground surface (vegetation, humidity ...), so that the operator does not slip or fall.

**Startup**
Do not start the engine in closed rooms, the exhaust fumes contain carbon monoxide, which is very toxic if inhaled!
Before starting the engine, set all operating elements to neutral or idle position.
Do not step in front of the machine or the add-on device to start the engine.
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 bar while working.
Never adjust operator bars while work is in progress - risk of accident!
For all work with the device, especially when turning, the machine operator must maintain the distance from the device shown by the bars.
Riding on the implement during operation or in transport is not permitted.
In the event of any clogging to the work equipment or add-on device, the engine must be stopped and the work equipment or add-on device must be cleaned with appropriate tools. There may be tension in the drive train as a result of the blockage, which is why you should resolve the blockage carefully.
In the event of any damage to the machine or the add-on device, shut down the engine immediately and have the damage repaired.
In the event of any malfunctions to the steering, stop and park the machine immediately. Have the fault resolved without delay.
If there is a risk of skidding down on sloping terrain, then the machine must be held by an attendant using a bar or a rope. The attendant must be located above the machine at a safe distance from the work equipment.
Work across the slope along contour lines if possible. If possible, turn the machine in uphill direction.
The two-wheel tractor **agria 3600** is not equipped with a parking brake. To park the machine on a slope, put it in 1st gear.

**Finishing work**
Never leave the machine unsupervised while the engine is running.
Switch the engine off before leaving the machine. Then close the fuel tap(s) (if present).
Protect the machine against unauthorized use. In ignition key models, remove the ignition key; otherwise, remove the spark plug connector.

**Implements**
Attach an implement only when engine and implement drive are switched off.
Prior to attaching and starting the implement, read and observe the operating instructions of the implement.
Use adequate tools and wear gloves to replace implements and parts thereof.
Put the supporting equipment to the proper position and ensure stability when you attach or remove an implement.
Secure machine and implements against rolling away (parking brake - if installed, wheel chocks).
There is a risk of injuries when you attach an implement. Take special care.
Attach an implement in accordance with the regulations and only at the specified fixtures.
Always switch off the working tools during a transport ride or when you drive to adjacent working areas.
Secure machine and implement against unauthorized use and rolling away when you leave it. If necessary, install transport or safety equipment, and put it in protective position.

Hoeing equipment
When hoeing or tilling difficult soil (stony, hard), there can be jerky movements of the machine to the front and upwards. Be particularly careful.
Ensure that the hoeing spur is properly adjusted for hoeing.
Adjust the protective roofs for the hoeing working depth such that only the parts of the hoeing tools are not covered that penetrate the soil.

Mowing equipment
When handled improperly, the sharp edges of the mower knives can cause significant injuries. Always wear protective gloves when you work on the knives.
Ensure that the screwing movements are away from the cutting edges when you replace a knife and loosen or secure the knife driver.
Wear protective goggles and protective gloves when you grind the knives.

Ballast
Always attach ballast properly at the attachment points provided.

Maintenance and cleaning
Only trained specialist personnel, who can carry out professional maintenance and repair, may carry out this work.
Do not carry out maintenance and cleaning with the engine running.
When working on the engine always remove the ignition key (if present) and also the spark plug connector in the case of petrol engines.
Protective devices and tools that are subject to wear and tear must be regularly inspected and replaced if necessary!
Damaged cutting tools must be replaced!
When replacing cutting tools use suitable tools and protective gloves.
Do not carry out repair work such as welding, grinding, drilling, etc. on structural, safety-relevant parts (such as steering bar, tractor hitches, etc.).
Keep the machine and attachments clean, to avoid the risk of fire.
Regularly check nuts and bolts for tightness and retighten if necessary.
After maintenance and cleaning, ensure that the protective devices are reinstalled and properly adjusted!
Only use genuine Agria spare parts.
Carry out a functional and safety test after completing the work.

Storage
Never store the machine in rooms with open heating.
Do not park the machine in closed rooms with fuel left in the tank. Fuel vapours are hazardous.

Engine, fuel and oil
Do not run the engine in a closed room. There is a high risk of poisoning! Therefore always replace damaged exhaust parts.
1 Safety Instructions

Handle hot engine components with caution!
The silencer and other engine parts get very hot when the engine is running and are still hot directly after the engine is switched off. Keep a sufficient distance from hot surfaces and keep children away from the running engine.

Caution is needed when handling fuel. These is an increased risk of fire. Never handle fuel near open flames, ignitable sparks or hot engine parts.

Do not refuel in closed rooms. No smoking when refuelling!

Refuel only with the engine switched off and cooled down.

Do not spill fuel. Use a suitable filling device.

If you spilled fuel, push the machine away from the spilled liquid before you start the engine.

Make sure fuel is of the specified quality.

Store fuel in approved containers only.

Drain fuel only outdoors and into suitable containers.

In the interests of safety, replace the fuel tank cap and other tank caps if damaged.

Store anti-corrosion agents and stabilizer fluids out of the reach of children. If sickness and vomiting occur, consult a doctor immediately. In the event of contact with the eyes rinse immediately with plenty of water. Avoid inhaling vapours.

Read and observe enclosed instructions!

Before disposing of opened and seemingly empty pressurized tins make sure they are completely empty. Empty them in a well-ventilated area safe from sparks and flames. Dispose of tins as hazardous waste if necessary.

When working with oil, fuel and grease wear suitable protective gloves and use skin protection agents if necessary.

Be careful when draining hot oil, danger of burns.

Make sure the oil used is of the specified quality. Store in approved containers only.

Dispose of oil, fuel, grease and filters separately and properly.

Tyres and tyre pressure

When you work on the wheels ensure that the machine is parked securely and is secured against rolling away.

Only skilled specialists are allowed to repair tyres, using suitable installation tools.

Check the tyre pressure at regular intervals. There is a risk of explosion from excessive tyre pressure.

Observe the required tyre pressure when you use ballast.

During each service work, tighten the drive wheel bolts and nuts and check the tightening torque.

Electrical system

Persons with cardiac pacemakers are not allowed to touch the energized parts of the ignition system as long as the engine is running.
Description of the warning, prohibition and mandatory signs

Prior to starting up the machine, read and observe the operating instructions and safety instructions.
Prior to starting cleaning, maintenance or repair work, switch off the engine and pull the sparking-plug connector.

Caution - risk of fire
- Refuel only with the engine switched off and cooled down.
- No naked flame.

The engine exhausts contain poisonous gas
- Keep your distance.
Never run the engine in a closed room.

Handle hot engine components with caution!
Keep sufficient distance to hot surfaces.

Keep a safe distance to the mower knives when the engine is running!

Be careful of catapulted parts, particularly on stony ground.
Keep a safe distance when the engine is running.
Remove foreign objects from the working area.

Keep a safe distance from the hoeing tools when the engine is running!

Never work without protective devices! Prior to starting move the protective devices to protective position.

Do not touch any moving machine parts. Wait until they are at a complete standstill.

When working with the machine wear individual hearing protection.

Wear safety shoes.

Check the engine oil level at least every 8 operating hours.
2 Technical Data

Machine

Engine: ................................................................. Honda
Clutch: .............................................................. Dry multidisc clutch
Gearbox: ............................................................. Toothed manual gearbox
Version 3600 (2+2): .............................................. 2 forward and 2 reverse gears
Version 3600 (3+2): .............................................. 3 forward and 2 reverse gears

Wheel shifting and single-wheel brake at both sides

<table>
<thead>
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<th>Gear</th>
<th>Rear-mounted attachment</th>
<th>Front-mounted attachment</th>
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<td>4.00-8 reverse</td>
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<td>4.00-10 forward</td>
<td></td>
<td>1.5</td>
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<tr>
<td>4.00-10 reverse</td>
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<td>2.5</td>
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Gear oil: ....................................................... Oil filling volume approximately 1.5 l
Gear oil SAE 90 – API - GL5 (e.g. BP Energear Hypo)

PTO shaft: ......................................................... 1028 min⁻¹, at engine speed 3600 min⁻¹
gear-independent (integrated in connecting flange)
Sense of rotation: Clockwise, looking on the PTO shaft
Same with forward and reverse drive
Internal splines Ø 20 mm

Equipment connection: ........................................... Ø 47 mm

Steering bar: ..................................................... Height and lateral adjustment without tools
Swivelling through 180° for front implement attachment

Weights:
Version 3600 (2+2) ............... empty weight with driving wheels 4.00-8: 63.0 kg
Version 3600 (3+2) ............... empty weight with driving wheels 4.00-8: 74.0 kg
Tyres: ....................................................... 4.00-8 (field profile) or 4.00-10 (field profile)
Tyre pressure: ........................................................................................................... 1.2 bars

Wheel track
Version 3600 (2+2): .......................................................................................... [mm]
4.00-8............................................................................................................. 300 - 600
4.00-10.......................................................................................................... 320 - 620

Track plan
Version 3600 (3+2): .................................................................................. [mm]
Dimensions (mm):

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**Sound values**

Sound-pressure level at the ear of the operator.. to EN ISO 3744 and EN ISO 11201
with hoeing equipment (3601 311) .................................................. $L_{PA} = 83,0\, \text{dB}$
with rotary tiller (3656 521) .......................................................... $L_{PA} = 96,0\, \text{dB}$
with sweeping machine (2294 171) .................................................... $L_{PA} = 96,0\, \text{dB}$

**Vibration acceleration values**

at the handlebar handle

to ISO 5349 at 85 % of the nominal engine speed with activated tool
with hoeing equipment (3601 311) .................................................. $a_{hw} = m/s^2$
with rotary tiller (3656 521) .......................................................... $a_{hw} = m/s^2$
with sweeping machine (2294 171) .................................................... $a_{hw} = m/s^2$
Technical Data

Two-wheel tractor agria 3600

Petrol engine

**Engine make:** ................................................................. Honda
**Type:** .................................................................................... GX160
**Bore x stroke:** ........................................................................ 68 x 45 mm
**Displacement:** ........................................................................ 163 cm³
**Net output:** ........................................................................... 3.6 kW (4.9 DIN-PS) at 3600 min⁻¹
**Torque:** ................................................................................ 10.3 Nm at 2500 min⁻¹
**Design:** ................................................................. air-cooled 1-cylinder four-stroke petrol engine
**Working speed:** ..................................................................... 3600 min⁻¹
**Idle speed:** ........................................................................... 1250-1600 min⁻¹
**Spark plug:** ............................................................................. NGK BPR6ES

Electrode gap: 0.7-0.8 mm

**Starting device:** .............................................................. cable-pull starter
**Fuel:** .................................................................................. commercially available car petrol

octane number see engine operating instructions

**Fuel consumption:** .......................................................... 313 g/kWh
**Capacity of the fuel tank:** .................................................. 3.1 l
**Air filter:** ................................................................................ oil bath type
**Engine oil:** ........................................................................... fill volume approximately 0.6 l

Multigrade oil SAE 10W-30, quality class API-SJ or higher

**Slope suitability:** .............................................................. < 20° (37 %)
3 Devices and Operating Elements

The two-wheel tractor **agria 3600** is a base motor unit that is always used with an implement. It is thus suitable for the usual utilization in gardening, landscaping, agriculture and forestry, such as soil cultivation, mowing of grass and meadows, winter service and sweeping.

When using the machine on public roads - and when being transported - the national road traffic regulations of the relevant country must be complied with (marking, lighting, etc.). The implements released in the Agria sales list are available.

### Engine

The **four-stroke petrol engine** is to be used with standard petrol (see chapter Startup, page 40).

During the first 20 hours of operation (running-in period) do not use the engine at full power.

The rule of never using the engine at a higher speed than necessary for the work in hand applies even after the running-in period.

- **Information**
  
  High speeds are detrimental to all engines and significantly reduce their service life. This especially applies for no-load operation! Overrevving the engine (letting it roar) can result in immediate damage.

#### Idling

Always ensure that the engine idle speed is adjusted correctly. With speed regulating lever at idling, the engine should continue running smoothly.

---

### Cooling

The engine is cooled with an air blower. Keep the fan grille at the cable-pull starter and the cooling fins of the cylinder free of dirt and aspirated plant debris.

---

### Air filter

The air filter cleans the aspirated air. A contaminated filter reduces the engine output.

### Ignition system

The petrol engine is equipped with a contactless electronic ignition system. We recommend that any necessary inspections are carried out by a skilled person only.
**Speed regulating lever**

Use the speed regulating lever (B/3) on the steering bar to continuously adjust the engine speed between min = IDLE and max = FULL THROTTLE as required.

**Safety circuit**

The machine is equipped with a safety circuit.

1. **Stop position:** When the safety lever (B/1) is not actuated, the machine is disengaged and the engine continues running.

2. **Operating position:** For operation, press down the safety lever (B/1). This establishes a non-positive connection between engine and gearbox.

- The safety circuit must be operated in two steps:
  1) Press the locking strap (unlatch)
  2) Press the safety lever down.

⚠️ **With activated wheel drive / tilling drive, the wheels / tilling tools start rotating immediately.** Consequently, press down the safety lever only when the drives are at O position and/or are disengaged at the manual clutch lever.

⚠️ **Never tamper with the safety circuit. Never tie up the safety lever.**

ℹ️ The safety lever is used as an emergency off switch: Release the lever in a dangerous situation. It swings automatically to "STOP" position!
Clutch

The clutch is operated at the manual clutch lever (B/5).

- The machine is disengaged when the manual clutch lever is pulled in position "O". This means that the engine no longer drives the machine.
- The machine is engaged when the manual clutch lever is released to position "I". This means that the engine drives the machine.
- Observe the clutch play to prevent the clutch from slipping during work. See page 59.

Engine stop switch

The electric engine stop switch (B/4) switches the ignition system ON/OFF.
"ON" = operating position
"OFF" = engine stop position

Switching to "OFF":
The engine is switched off immediately.
### Gearbox

When the steering bar is swivelled through 180° (for front implement attachment), the position of the shifting rods for gear and PTO shifting is laterally reversed. See page 32.

<table>
<thead>
<tr>
<th>Two-wheel tractor position (rear implement attachment)</th>
<th>Implement carrier position (front implement attachment)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The gear shifting rod is right (in driving direction)</td>
<td>The gear shifting rod is left (in driving direction)</td>
</tr>
<tr>
<td>the PTO shaft switching rod is left</td>
<td>the PTO shaft switching rod is right</td>
</tr>
</tbody>
</table>

#### Version 3600 (2+2)

The machine is equipped with a toothed manual gearbox with
- 2 forward gears and 2 reverse gears
- rigid hexagonal wheel shaft.

Shift gears only when the machine is at standstill (disengaged)!

#### Gear shifting

The gears are shifted with the gear shifting rod (B/7)!
Idle position "0" between the individual gears.
The selected gear shows at the sticker on the gearbox.

Actuate the clutch before you switch gears.

#### Version 3600 (3+2)

The machine is equipped with a toothed manual gearbox with
- 3 forward gears and 2 reverse gears
- wheel switching at both sides
- individual wheel steering brakes
Shift gears only when the machine is at standstill (disengaged)!

**Gear shifting**

The gears 1 - 2 and R1 - R2 are shifted with the gear shifting rod (B/7)!

Idle position "0" between the individual gears.

The 3rd gear ("overdrive") is selected with **overdrive shifting** (see below).

The selected gear shows at the sticker on the gearbox.

Actuate the clutch before you switch gears.

**Overdrive shifting with version 3600 (3+2)**

For transport rides, you can use the 3rd gear (overdrive).

- This requires the overdrive shifting rod (B/8) to be installed. See page 10
- Switch the gear shifting rod (B/7) to position "0" between 1st and R1 gear.
- Switch the overdrive shifting rod (B/8) to position ",(FAST)" (pull the shifting rod to the rear).
- Switch the gear shifting rod to position "3".
- Switch back in reverse sequence.
- To switch to a reverse gear, first set the shifting rod to "0", and switch off the "Overdrive".

For safety reasons, "overdrive shifting" is only possible during normal forward driving (rear implement attachment). With front implement attachments, the overdrive shifting rod is removed and switching is blocked.
Single-wheel brake (turning steering assist) with version 3600 (3+2)

To make steering and turning the machine easier, the machine is equipped with a single-wheel steering brake.

It is actuated with the steering brake levers (B/10 and B/11).

Partial actuation of a steering brake lever releases the related wheel. Full actuation additionally brakes the wheel.

To release a wheel permanently, engage the stop pawl (B/9) at the corresponding steering brake lever.

**Single-axle position:**

The right wheel is released and braked, when you actuate the right steering brake lever.

The left wheel is released and braked, when you actuate the left steering brake lever.

**Implement carrier position:**

⚠️ The turning process is inverted when the steering bar is rotated through 180° (front implement attachment, see page 37).

The left wheel is released and braked when you actuate the right steering brake lever.

The right wheel is released and braked when you actuate the left steering brake lever.

**If possible, turn the machine in uphill direction.**

⚠️ The single-wheel brake (turning steering assist) is not available in version 3600 (2+2).
PTO shaft shifting
The gear-independent PTO shaft sits in the device connecting flange (A/12) of the machine. Switching ON/OFF with the PTO shifting rod (B/6) **only in disengaged state:**

I = switched ON;

PTO shifting rod forward

0 = switched OFF;

PTO shifting rod backward

The position of the PTO shifting rod and the position of the gear shifting rod are swapped and the PTO shifting direction is reversed when the steering bar is rotated through 180°! See page 32 and page 37.

Reverse-gear interlock
The reverse-gear interlock (locking pin) prevents the hoeing equipment to be activated when the reverse gear is selected and the reverse gear from being selected while the PTO shaft is engaged.

To permit the hoeing equipment to be attached, the locking pin must be completely at the outside. See page 36

To attach front implements (such as mowing equipment), the locking pin must point to the inside. See page 37
Steering bar

⚠ Adjust the steering bar only when traction drive and PTO drive are switched off - risk of accident!

Steering bar height adjustment
- Press the bar notch lever (B/2) down until the notches are released.
- Move the handlebar to the required level.
- Release the bar notch lever and gently ease the handlebar in a notch so that the bar notch lever swings fully up to its home position.

Steering bar lateral adjustment
From its normal position (centre position) you can swing the steering bar through approximately 30° to the left / right.
- While you are pulling the bar latch (B/12) to the rear, move the steering bar to the left or right to the required position.
- Allow the bar latch to lock into place in the corresponding notch.
Swivel the steering bar through 180°

for the attachment of front implements (from two-wheel tractor to implement carrier position)

⚠️ Swivel the steering bar only when the engine is switched off.

1 Releasing the shifting rod
   - Pull the cotter pins A out of the shifting rods
   - Pull the shifting rods off the articulated elements

2 3600 (3+2): Remove the overdrive shifting rod
   1) Open the lynch pin at the shifting rod
   2) Pull off the shifting rod from above
   3) Unscrew the handle ball from the shifting rod
   4) Pull the shifting rod out of the gearshift gate, and keep it
Guidance of the Bowden cable with swivelled steering bar in implement carrier position

3. Open the bar latch (B/12) and swivel the steering bar clockwise through 180°. While you are swivelling the steering bar, ensure that the Bowden cables are neither twisted nor distorted.

⚠ Incorrect routing or careless swivelling of the steering bar can damage the Bowden cables.

Always ensure that you observe the correct swivelling direction when you adjust the bar.

Swivel the steering bar carefully clockwise in the implement carrier position (see top view, page 32).

To avoid excessive bending of the Bowden cables guide them with your hand to the right side of the bar (seen in driving direction) while you are standing behind the bar.

4. Close the bar latch and allow it to engage in the corresponding notch on the steering bar.

5. Reconnect the shifting rods with the shift levers, and secure them with the cotter pins A.

⚠ Attention: The gear shifting rod is now at the left, and the PTO shifting rod at the right on the handlebar.

The PTO switching direction and the single-wheel braking direction are also reversed.

The lateral adjustment of the steering bar (approximately 30°) is also possible from the rotated position.

Swing the steering bar back

In the same sequence, but anti-clockwise. With version 3600 (3+2), reinstall the overdrive shifting rod.

Carefully swing the steering bar back in anti-clockwise direction to the single-axle position. Here, too, support the movements of the Bowden cables with your hands.
Swivelling the steering bar through 180°

Two-wheel tractor position
(rear-mounted attachment)

Implement carrier position
(front-mounted attachment)

3600 (2+2)

3600 (3+2)
3 Devices and Operating Elements

Driving wheels

3600 (2+2)  
with driving wheels 4.00-8

Version 3600 (2+2)

= hexagonal wheel shaft

Wheel flanges (2) are plugged on the hexagonal wheel shafts, and are retained with lynch pins (3) through the hub wheel shaft bores.

The corresponding driving wheels (8) are installed on the wheel flanges with wheel bolts (5) and washers (6).

While each side of the wheel shaft has two attachment bores, the wheel flange has three bores for lynch pins. The corresponding wheel track can thus be adjusted by moving the wheel hubs on the wheel shaft.

⚠️ Install the lynch pin such that its spring elements point to the rear in the driving direction, and lock into place when you fold them.

The wheels can be mounted inward or outward so that the required wheel track of 352 mm ... 632 mm can be obtained.

Install the driving wheels such that the tip of the tyre pattern points in driving direction (seen from above). This provides full traction power. This must also be taken into account when the steering bar is rotated through 180° for front implement attachment.

1 Hexagonal wheel shaft
2 Hexagonal wheel flange
3 Lynch pin
4 Wheel adapter flange
5 Washer
6 Wheel bolt
7 Hexagon head screw
8 Driving wheel
9 Washer
10 Wheel nut
11 Wheel bolt
3600 (3+2)

with driving wheels 4.00-8

1 Wheel flange
2 Wheel adapter flange
3 Washer
4 Wheel nut
5 Hexagon head screw
6 Driving wheel
7 Washer
8 Wheel nut

Version 3600 (3+2)

= wheel flange with stud bolts

The corresponding driving wheels (6) are installed on the wheel flanges with wheel nuts (5).
First install the wheel adapter flanges (2) to the driving wheels when you use driving wheels 4.00-10.
The required wheel track can be achieved with the installation of the driving wheels to the wheel flanges or the wheel adapter flanges (flanges / wheels turned inward or outward, and mounted from the inside or the outside to the wheel adapter flanges). (Track plan see page 19).
Install the driving wheels such that the tip of the tyre pattern points in driving direction (seen from above). This provides full traction power. This must also be taken into account when the steering bar is rotated through 180° for front implement attachment.

Wheel mounting bolts

3600 (2+2): Wheel bolts with washers.
3600 (3+2): Stud bolts with washers and wheel nuts

With a new machine and after each wheel change tighten the wheel bolts or wheel nuts after the first 2 operating hours with 50 Nm, and always during maintenance work.

Driving wheel utilization

<table>
<thead>
<tr>
<th>Size</th>
<th>Tyre pattern</th>
<th>Utilization</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.00-8</td>
<td>Field profile</td>
<td>Tilling, ridging, mowing, sweeping, winter service</td>
<td>3690 011</td>
</tr>
<tr>
<td>4.00-10</td>
<td>Field profile</td>
<td>Ploughing, tilling</td>
<td>3690 021</td>
</tr>
</tbody>
</table>
Snow chains
Observe the manufacturer's instructions when you use snow chains. Ensure that there is enough clearance at the machine components.

Front and wheel ballast
Front ballast and wheel ballast can be added to improve the traction power.

Attachment front ballast: Part no. 3628 011

Attachment wheel ballast: Part no. 3621 011

3600 (2+2): Hexagonal wheel shaft
- Unscrew the driving wheels.
- Install the wheel hubs (1) such that the hexagonal tube point inwards. First, screw on the driving wheels with the long hexagon head screws (2) [included in the scope of delivery of the wheel ballast]. For each wheel, install 2 diagonally opposite screws from the inside to the wheel flange (1).
- For each wheel, install 2 diagonally opposite wheel bolts (4) from the inside in the empty threaded holes of the wheel flange.
- Using 2 long special nuts (7) and washers (6), screw the wheel ballast elements diagonally on the hexagon head screws (2) you screwed in from the inside.
- Tighten wheel bolts and ballast fastening nuts with 50 Nm.

3600 (3+2) wheel flange with stud bolts
- At each wheel, unscrew 2 diagonally opposite wheel nuts with washers.
- Using 2 long special nuts (7) and washers (6), screw the wheel ballast elements diagonally on the stud bolts (8).
- Tighten wheel nuts and ballast fastening nuts with 50 Nm.
Installing and removing implements

⚠️ Ensure that the engine is switched off!

Prior to attaching and starting the implement, read and observe the operating instructions of the implement.

Attachment:
- The contact surfaces of machine and implement must be clean.

Rear implement attachment

Implement attachment
- Remove the protective plastic cap from the implement connection pin.
- Ensure that the contact surfaces on two-wheel tractor and implement are clean and greased. Clean and grease if necessary.

1. Gear shifting in position "0".
2. In the unit driven by the PTO shaft:
   Shifting rod (B/6) at the shifting rod at "0".
3. When attaching the hoeing or tilling device:
   Push the reverse-gear interlock outward.
4. Press down and hold the latch (1).
5. Insert the implement until it hits the stop collar. Release the latch. The locking pin must now automatically go down and lock into place. If not:
   Slightly rotate the implement to the left or right.

Removing the implement

1. Press down and hold the latch (1).
2. Pull the implement out of the device connection.
- Slip the protective cap over the implement connection pin.
Front implement attachment

To be able to use the two-wheel tractor with front implements (such as mowing equipment, snow pusher etc.), swivel the steering bar clockwise through 180°.

⚠️ Swivel the steering bar only when the engine is switched off!

1. Swivelling the bar see page 30.

2. Push the reverse-gear interlock inward.

ℹ️ The gear shifting rod is now at the left, and the PTO shifting rod at the right on the handlebar. The PTO switching positions are reversed, see page 32.

In version 3600 (3+2), the action of the single-wheel brake act is laterally inverted, see page 32.

ℹ️ Whenever you swivel the steering bar through 180° for the attachment of a front implement, also change the wheels to adjust the tyre pattern to the new driving direction. To do this, remove the wheels and install the right wheel at the left side and the left wheel at the right side.

Swinging the steering bar back
- In the same sequence, but anti-clockwise. With version 3600 (3+2), reinstall the overdrive shifting rod.
Front implement attachment

⚠️ Attachment and removal only when the engine is switched off!

- Remove the protective plastic cap from the implement connection pin.
- Ensure that the contact surfaces on two-wheel tractor and implement are clean and greased. Clean and grease if necessary.

1. Gear shifting in position "O".
2. In the unit driven by the PTO shaft:
   Set the PTO shaft shifting rod on the two-wheel tractor to "O".
3. Press down and hold the latch (1).
4. Insert the implement until it hits the stop collar. Release the latch (1).

   The locking pin must now automatically go down and lock into place. If not: Slightly rotate the implement to the left or right.

Removing the implement

1. Press down and hold the latch (1).
2. Pull the implement out of the implement connection, and release the lever.
- Slip the protective cap over the implement connection pin.
Attachment points

Straps must be fastened to the attachment points for towing, recovery, securing for safe transport and loading the machine.

Lashing to other points may result in damage.
Check straps for damage and replace if necessary!
Do not use sharp-edged load carrying equipment (e.g. sharp-edged hooks, eyes etc.)!

Never walk or stand under suspended loads. Danger to life!
4 Commissioning and Operation

Commissioning

Petrol engine
Please note that the engine's service life and operational reliability are heavily dependent on the running-in time. Always allow a cold engine to warm up for a few minutes first of all and do not run up to full power immediately.
During the first 20 hours of operation (running-in period) do not use the engine at full power.

⚠️ **Attention:** The engine is not filled up with engine oil for transport reasons!
**Fill the engine with engine oil before first commissioning, but do not go beyond the maximum level!**

🛠️ Engine operating instructions

This engine runs smoothly with conventional unleaded regular and premium petrol (also E10) as well as Super plus.

**Do not add oil to petrol.**

Only use fresh, clean fuel (no older than 3 months) and only use approved fuel cans available from specialist dealers. Do not use rusted metal cans or plastic containers which are not fuel-resistant.

ℹ️ **Always consider for good care of the filter and clean fuel. Use only branded petrol.**

⚠️ Caution is needed when handling fuel.

⚠️ Petrol is highly flammable and explosive under certain conditions!

🚫 Do not refuel in closed rooms.

🚫 Refuel only with the engine switched off and cooled down.
Never refuel near naked flames, ignitable sparks or hot engine parts.

No smoking when refuelling!

Do not spill fuel. Use a suitable filling device.

Do not fill the fuel tank until it overflows. Leave approximately 5 mm space to allow the fuel to expand.

If you spilled fuel, push the machine away from the spilled liquid before you start the engine.
Before starting the engine

⚠️ Check the engine for oil and fuel leaks (hoses, screwed connections). Replace parts if necessary.

Function of the engine stop circuit

Check the function of the engine stop circuit (B/4) every time before you start a ride. A defect in the engine stop circuit is not always obvious.

A defective cable or switch can cause a failure of the engine stop switch.

Check the engine stop switch for damage on the switch housing or in the cable harness. Replace defective parts immediately. Start the machine only when the engine stop switch is functioning!

Bowden cable for the safety function

⚠️ Check the Bowden cable of the safety function for damage. Replace a defective Bowden cable immediately.

(Fig.: Two-wheel tractor position)
Sufficient fuel in the tank?

Air filter clean?

Check engine oil level

Checking the gearbox oil level

Checking all nuts and bolts for tightness

⚠️ Only put the machine into operation after all protective devices have been mounted, are functional and in protection position.

Prior to starting up the machine check the protective devices for completeness and function. For example, ensure that the hood door of hoeing and tilling device can move freely.

Handle hot engine components with caution!
The silencer and other engine parts get very hot when the engine is running and are still hot directly after the engine is switched off. Keep a sufficient distance from hot surfaces and keep children away from the running engine.

⚠️ When the petrol engine is running, do not touch or remove the ignition cable or spark plug connector.
Danger zone

Observe the operating instructions of the implements and the safety instructions.

Staying in the danger zone of the machine during startup and operation is not permitted.

If the operator notices that people or animals are in the working area, the machine must be switched off immediately and not restarted until this area is clear.

The user is responsible for third parties in the working area (entire area to be worked on).

The hazard zone differs with the installed implement (A) (for work and transport drive):

<table>
<thead>
<tr>
<th>Implement</th>
<th>V</th>
<th>H</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hoeing and tilling device</td>
<td>1 m</td>
<td>1 m</td>
<td>1 m</td>
</tr>
<tr>
<td>Mower head</td>
<td>2 m</td>
<td></td>
<td>1 m</td>
</tr>
<tr>
<td>Sickle mower</td>
<td>*25 m</td>
<td>*25 m</td>
<td></td>
</tr>
<tr>
<td>Flail tiller</td>
<td>*20 m</td>
<td></td>
<td>3 m</td>
</tr>
<tr>
<td>Safety tiller</td>
<td>*10 m</td>
<td></td>
<td>2 m</td>
</tr>
<tr>
<td>Belt rake</td>
<td>2 m</td>
<td></td>
<td>2 m</td>
</tr>
<tr>
<td>Baler</td>
<td>3 m</td>
<td></td>
<td>2 m</td>
</tr>
<tr>
<td>Sweeping machine</td>
<td>3 m</td>
<td></td>
<td>3 m</td>
</tr>
<tr>
<td>Snowplough</td>
<td>2 m</td>
<td></td>
<td>1 m</td>
</tr>
<tr>
<td>Snow blower</td>
<td>*25 m</td>
<td>*25 m</td>
<td></td>
</tr>
<tr>
<td>Spreader</td>
<td>3 m</td>
<td></td>
<td>3 m</td>
</tr>
<tr>
<td>Quarter-turn plough</td>
<td>1 m</td>
<td></td>
<td>1 m</td>
</tr>
<tr>
<td>Ridging body</td>
<td>1 m</td>
<td></td>
<td>1 m</td>
</tr>
<tr>
<td>Wild plant brush</td>
<td>3 m</td>
<td></td>
<td>3 m</td>
</tr>
</tbody>
</table>

Transport ride with * only 3 m
Starting the petrol engine

Never start or allow the engine to run in enclosed rooms or rooms that are not ventilated. It is essential to ensure for sufficient ventilation and a quick extraction of the exhaust fumes. The exhaust fumes contain carbon monoxide that is highly toxic when inhaled.

Plug on the sparking-plug connector

1. Open the fuel cock (C/13)

2. Cold engine: Set CHOKE actuator (C/5) to "CHOKE". Reset CHOKE when the engine is hot

   Engine at operating temperature: Leave CHOKE in normal operating position

3. Switch gear and PTO shifting to ("O")

4. Set engine stop switch (B/4) to operating position ("ON")

5. Set speed regulating lever (B/3) to approximately 1/3 throttle

6. Start the engine from outside the hazard zone: Hold the starter rope at the starter handle (C/7) and pull it out vigorously and rapidly to start the engine. Guide the handle back after the engine has started. Do not allow it to shoot back.

7. Once the engine is running, set the engine speed to min and allow the engine to warm up for a short time. Slowly move the choke actuator back to operating position (if actuated).
Stopping the petrol engine

Switch gear and PTO shifting to ("O")

Set the speed regulating lever (B/3) to idle position, and allow the engine to idle for approximately 30 seconds

Set the engine stop switch (B/4) to ("OFF") position

Close the fuel cock (C/13)

Secure the machine against unauthorized use and rolling away
- Pull off the sparking-plug connector
- Use wheel chocks

In a dangerous situation, set the engine stop switch to "OFF" to switch off the engine.

If you want to shut down the machine for a longer time, do not stop the engine at the engine stop switch. Close the fuel cock(s) and let the engine run until it stops. This empties the carburettor and prevents resinification.
Working

⚠ Check the function of the safety circuit. See page 59.
- Start the machine only when the safety circuit is working!

Start the engine as described at "Starting the engine". See page 45

Wear hearing protection and safety shoes

Press down the safety lever (B/1)

Pull and hold the manual clutch lever (B/5)

Switch to the gear you need for the current work

Switch on the PTO shaft drive

While you are opening the throttle, slowly engage the clutch
Changing the driving direction from forward to reverse

Engine idling

Pull and hold the manual clutch lever (B/5)

Switch to "R1" or "R2"

While you are opening the throttle, slowly engage the clutch

⚠️ In particular when reversing or manoeuvring, watch out for obstacles to prevent surprises!

⚠️ Always switch off the working tools during a transport ride or when you drive to adjacent working areas.

Handle hot engine components with caution!

The silencer and other engine parts get very hot when the engine is running and are still hot directly after the engine is switched off. Keep a sufficient distance from hot surfaces and keep children away from the running engine.
Never leave the machine unattended while the engine is running.

If you have to clean the machine during work, switch off the engine and remove sparking-plug connector(s) and ignition key for safety reasons.

Working on slopes

Observe the operating instructions of the implements and the safety instructions.

Slope capability

$\pm_{\text{max.}} = 20^\circ$ (37%), see page 21

Depending on the type of ground surface (vegetation, humidity ...), wear suitable shoes so that you do not slip or fall.

If there is a risk of instability on a slope, have a second person who holds the machine with a bar or a rope. The second person must stand above the machine at a safe distance from the hazard zone.

Work across the slope along contour lines if possible. If possible, turn the machine in uphill direction.

Starting the engine on a slope

Use the following procedure if you have to restart a stalled engine:

- Leave PTO shaft and gearbox engaged; braking effect
- Set the safety circuit to "Stop" position
- Restart the engine
Working with the tilling implement

⚠️ With the hoeing and tilling implement, always work across the slope, never uphill or downhill. A sudden thrust of the tilling implement can cause the machine to overturn or to be moved downhill.

When hoeing or tilling difficult soil (stony, hard), there can be jerky movements of the machine to the front and upwards. Be particularly careful.

⚠️ In particular when reversing or manoeuvring, watch out for obstacles to prevent surprises!

Notes on mowing/mulching

When mowing/mulching, only work uphill to clear the headland.

⚠️ Never work downhill. The machine could start slipping. Never try to stop a slipping machine. The machine is too heavy. You can not hold it. If possible, steer the machine across the slope. Release the safety lever to activate the safety circuit.

⚠️ Turn the machine only in uphill direction!

At the end of the mowing work or in case of plugging:

- Switch the traction drive to idle. The machine stops while the knives continue moving. This removes the debris from the mowing system.
- Switch off the PTO shaft drive
- Switch off the engine
- Install the knife protection bar

Parking the machine on a slope

⚠️ The machine rolls downhill when you switch gear and PTO shifting to "O" on a slope. Always position the machine such that it is across the slope, or leave gear and PTO shaft drive ON.

⚠️ The machine accelerates when it rolls downhill with implement being switched off and drive gear in idle.

In version 3600 (3+2) you can actuate the steering brake hand levers at the same time to brake the machine and to steer it across the slope.

To move downhill follow a diagonal route across the slope.
Safety instructions for handling

- Never let the engine run in a closed room. Dangerous carbon monoxide can accumulate.
- Always wear safety shoes and long trousers during the work. Never operate the machine when you are barefooted or in sandals.
- Check the complete terrain on which you want to use the machine. Remove all objects that could be ejected by the machine.
- Always work during daylight or with good lighting.
- Always ensure a secure position on a slope.
- Guide the machine only at walking speed.
- Work across the slope, never uphill or downhill.
- Be particularly careful when you change the driving direction on the hill.
- Never work on excessively steep slopes.
- Be particularly careful when you turn the machine or pull it towards yourself.
- When hoeing or tilling difficult soil (stony, hard), there can be jerky movements of the machine to the front and upwards. Be particularly careful.
- Always switch off the working tools during a transport ride or when you drive to adjacent working areas.
- Never change the basic setting of the engine. Never allow the engine to overspeed.
- Carefully start the engine in accordance with the manufacturer's instructions. Ensure that your feet are at a safe distance from the tools.
- Never approach your hands or feet to rotating parts.
- Never lift or carry the machine while the engine is running.
- Switch off the engine: - when you leave the machine; - before you re-fuel.
- Close the fuel cock(s) (if installed) after work.
- Never store the machine with petrol in the tank inside a building if petrol vapours could get into contact with naked flames or sparks, or ignite.
- Empty a tank only outdoors.
- Allow the engine to cool down before you store the machine in a closed room.
- For safety reasons, replace worn-out or damaged parts.
5 Maintenance and Repair

As well as observing the operating instructions valid for the machine, it is equally important to pay due attention to the following instructions on care and maintenance.

Larger maintenance and repair tasks may only be carried out by trained specialists who can carry out professional maintenance and repair.

You should only undertake smaller maintenance and repair tasks yourself if you have the relevant tools and training for machinery and combustion engines.

Only use genuine Agria spare parts.

Carry out a functional and safety test after completing the work.

Lubricants and anti-corrosive agents

Use the lubricants specified for engine and gearbox (see "Technical data").

For "open" lubricating points or nipple lubricating points we recommend bio lubricating oil or bio lubricating grease (as specified in the operating instructions).

We recommend using bio-anti-corrosive oil to preserve machines and attachments (do not apply on painted covers). The oil can be brushed or sprayed on.

Bio-lubricants and bio-anti-corrosive agents are environmentally friendly, as they are quickly biodegradable.

By using bio-lubricants and bio-slushing oil you act environmentally responsible, protecting the environment and promoting the well-being of humans, animals and plants.

Always switch off the engine before you start any maintenance or repair work!

Persons with cardiac pacemakers are not allowed to check the ignition system or to work on the ignition system.

Additionally remove the sparking-plug connector of a petrol engine!

Wear protective gloves when you work on the mowing and tilling tools!

When working with oil, fuel and grease, wear suitable protective gloves and use skin care products if necessary.
Petrol engine

Handle hot engine components with caution!

Check engine oil level

Before each start-up and after every 8 hours of operation

- Only with the engine switched off and on level ground.

- Clean the oil filler plug and its environment.
- Unscrew the oil filler plug, wipe the oil dipstick with a clean cloth and reinsert it (do not screw it in). Remove the oil dipstick and check the oil level.

- If the oil level is below the lower "min" mark, fill in engine oil (see "Technical data") up to the rim of the oil filler neck "max".
Change engine oil

First after 20 operating hours, then after every 100 operating hours or half-yearly (whatever is first). The engine must still be warm, but not hot - risk of burning!

- Clean oil filler plug / oil dipstick, oil drain plug and their environment.

- Open oil filler plug and oil drain plug, collect the used oil in a suitable container. Alternatively, you can use a drain pump to suck the used oil through the filling hole.

- Ensure proper disposal of the used oil.

**Check the sealing rings. Replace if necessary. Tighten the oil drain plug!**

Oil filing volume and quality see "Technical data".

- If possible, use a funnel or a similar fixture to fill in the oil.
Air filter; oil bath type

Prior to each startup, check the air filter (C/1) for contamination. Clean if necessary. At the latest every 3 months or every 50 operating hours. After a few hours in very dusty environments.

1. Unscrew the wing nut (1), remove air filter lid (2) and cover.
2. Remove the air filter insert (3) from the lid. Wash lid and filter insert in warm soapy water, rinse and allow them to dry thoroughly. Alternatively, clean them in an incombustible solvent and allow them to dry.
3. Immerse the filter insert into clean engine oil. Press out any excess oil afterwards. The engine smokes if there is too much oil in the foam insert.
4. Drain the used oil from the air filter housing (4). Wash out accumulated dirt with incombustible solvent. Dry the housing.
5. Fill the oil that is recommended for the engine (see page 21, up to the OIL LEVEL mark into the air filter housing). Oil volume: 60 cm³
6. Assemble the air filter and tighten the wing nut.

Fuel hoses

Replace every 2 years. Replace leaking plastic hoses immediately.

Air cooling system

After long periods of operation the cooling system can be obstructed with dust or plant particles. Continuous operation with an obstructed cooling system causes the engine to overheat and can damage the engine.

Never spray water on the engine. Use a brush or compressed air.
- Continually check the fan grille (C/8), and remove aspirated dirt and plant debris.
Remove the fan housing after every 100 operating hours or at least yearly, ideally before the season. Clean the cooling fins on cylinder and cylinder head, and the deflector plates and the fan wheel that are necessary for air circulation.

Exhaust system and speed governor

Regularly check the exhaust system (C/9), governor lever, linkage and governor springs for soiling and plant debris and clean with a brush or compressed air if necessary. Danger of fire - due to dirty exhaust system!
Check before each start-up.
Replace damaged exhaust parts.

Handle hot engine components with caution!

Idle speed
Always ensure that the engine idle speed is adjusted correctly. With speed regulating lever at idling, the engine should continue running smoothly.

All further maintenance and care of the engine

Engine operating instructions
Machine
Transmission

Check gearbox oil level
Check the **gearbox oil level** before each startup and after every 50 operating hours. Oil dipstick and oil filling hole A/15. With the machine in a horizontal position, the oil level must be between the **max.** and **min.** marks.

- Unscrew the oil dipstick, wipe it with a clean cloth, and screw it back in.
- Unscrew the oil dipstick and check the oil level. Top up oil if necessary.

**Allow the gearbox to cool down before you start maintenance work. The temperature during maintenance should not be higher than 51°C.**

Changing the gearbox oil
Change the gearbox oil after the first 50 and then after every 300 operating hours when the oil is at operating temperature.

- Clean oil filler plug (A/15) and oil drain plug (A/19) and their environment to prevent dirt from getting into the gearbox.
- Open the drain plug, collect the used oil in a suitable container, and dispose of it properly.
- Clean the drain plug.
- Check the sealing rings. Replace if necessary.
- Screw in and tighten the drain plug with sealing ring.
- Fill in fresh gearbox oil up to the "max." mark.
- Oil filing volume and quality see "Technical data".
- Close the filling hole with the plug/dipstick.

Driving wheels

- During **initial startup** and after **each wheel change**, check and tighten the wheel bolts or wheel nuts after the first 2 operating hours and then during each service work and after every 25 operating hours with **50 Nm**.
• Check the tyre pressure of the wheels frequently. For smooth driving ensure that the tyre pressure in both wheels is the same. Never exceed the maximum tyre pressure! The max. tyre pressure is shown on the side of the tyre.

⚠️ There is a risk of explosion from excessive tyre pressure.

Only skilled specialists are allowed to repair and change tyres, using suitable installation tools.

**Equipment connection**

Lubricate the nipples with bio lubricating grease after every 50 operating hours and after each cleaning.

Grease the end of the PTO shaft before each attachment.

**Steering bar**

Lubricate the lubricating nipple with bio lubricating grease *yearly* and after each cleaning with a high-pressure cleaner.

There shall be a grease collar at the point where the grease emerges. This protects the bearing point against penetrating dirt and water.

**Brake**

Check operation and function of brake equipment and brake actuation after every 200 operating hours or at least *yearly*.

Readjust the brakes at the Bowden cable adjusting screws.

- agria-Service -
**Clutch play**

Check play "A" at the manual clutch lever (B/5) before each startup. Readjust if necessary (in particular during the running-in period after initial startup and after the clutch has been replaced).

- Release the locknut.
- Press and hold the safety lever and adjust the Bowden cable adjusting screw (D) until play A = 5 – 6 mm is reached.
- Tighten the locknut to the hand lever bearing.

**Safety circuit**

Check the function of the safety circuit before each startup and during each maintenance work.

- Traction and PTO shaft drive must stop automatically (disengage) and the locking strap must engage when you release the safety lever (B/1).
- The clutch must engage when you actuate the safety lever (B/1) up to the stop at the handle. The clutch must not slip. If necessary, check the Bowden cable and adjust it at the Bowden cable adjusting screw (E).
- Release the locknut.
- Adjust the adjusting screw as required.
- Tighten the locknut to the hand lever bearing.

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**Engine stop circuit**

**Petrol engine**

Check the function of the safety circuit before each startup and during each maintenance work.

- The engine must stop when the stop switch is in "OFF" position.
- Check the electrical cables and connections. Replace if necessary.

- agria-Service -
Labels

Replace worn-out and missing signs for operating and safety instructions.

3600 (2+2)
Replace worn-out and missing signs for operating and safety instructions.
General

Before each start-up check for escaping fuel and oil and eliminate the cause.
- agria-Service -

Regularly check nuts and bolts for tightness and retighten if necessary.

At least yearly and after cleaning:
Lubricate all sliding or moving parts (such as speed regulating lever, hand lever bearing, etc.) with bio lubricating grease or bio lubricating oil.

Cleaning

Machine
Clean thoroughly with water immediately after each use.
Do not expose electric cables and components to direct water jets.
Then lubricate all sliding parts with bio-lubricating oil or grease with bio-lubricating grease.

In addition lubricate the lubrication points on the machine immediately after cleaning with a high pressure cleaner, and put the machine briefly into operation to press out the penetrated water.
To protect the bearings against penetrating dirt, sap and water, there shall be a grease collar at the bearing points.

Engine
Only clean the engine with a cloth. Do not spray with water, as water could enter the ignition and fuel system and cause malfunctions.
Storage

If the machine is out of operation for an extended period:

1. **Clean**. Touch up the paint.
2. Spray **all bare parts** and mower head with bio corrosion-inhibiting oil.
3. **Preserve the engine**.

**Petrol engine**

- Completely drain the fuel outdoors into a suitable container.

**WARNING** Petrol is highly flammable and explosive under certain conditions! Never smoke in the working area. Stay away from naked flames and sparks.

Alternatively fill the fuel tank completely and add a fuel stabilizer (Agria no. 799 09) to the fuel.
- **Observe the operation instructions**! Let the engine run for approximately 10 minutes.
- Change engine oil.
- Fill a teaspoon (approximately 0.03 l) of engine oil into the sparking-plug hole. Slowly crank the engine.
- Reinstall the sparking plug and set the piston with the cable-pull starter to compression (slowly pull at the starter handle until you can feel resistance). The valves are now closed.
- Slowly crank the engine every 2...3 weeks (sparking-plug connector removed!) and set the piston back to compression.

**Driving wheels**

Jack up the machine such that the wheels are not on the ground. A flat pneumatic tyre is unserviceable within a very short time when it is under load on the ground.

**Shelter the machine**

To avoid heavy corrosion:
- Protect against weather influence
- Do not store in
  - damp rooms
  - synthetic fertiliser stores
  - stables and adjacent rooms

**Cover the machine**

Cover the machine with a cloth or something similar
# 6 Troubleshooting and Remedies

⚠️ **Observe the safety instructions!** Faults on the machine or on the engine that make a major intervention necessary must always be repaired by a specialist agria workshop that have the necessary tools. Incorrect intervention will only lead to damage.

## Petrol engine

<table>
<thead>
<tr>
<th>Fault</th>
<th>Possible cause</th>
<th>Remedy</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The petrol engine does not start</td>
<td>Sparking-plug connector not connected</td>
<td>Connect sparking-plug connector</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fuel cock closed</td>
<td>Open the fuel cock</td>
<td>45, 75</td>
</tr>
<tr>
<td></td>
<td>Choke not actuated</td>
<td>Actuate choke (only for cold start)</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>Engine stop switch to &quot;O&quot;</td>
<td>Set engine stop switch to &quot;I&quot; position</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>Fuel tank empty or unsuitable fuel</td>
<td>Fill fuel container with fresh fuel</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Fuel line obstructed</td>
<td>Clean fuel line - agria-Service -</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sparking plug defective</td>
<td>Clean, adjust or replace sparking plug</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>Too much fuel in engine (soaked)</td>
<td>Clean and dry spark plug, start with FULL THROTTLE</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>Engine stop line defective</td>
<td>Check line and connections - agria-Service -</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Air infiltration through loose carburettor and intake pipe</td>
<td>Tighten fixing screws</td>
<td></td>
</tr>
</tbody>
</table>
## 6 Troubleshooting and Remedies

<table>
<thead>
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<th>Fault</th>
<th>Possible cause</th>
<th>Remedy</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petrol engine has misses</td>
<td>Fuel cock closed</td>
<td>Open the fuel cock</td>
<td>45, 75</td>
</tr>
<tr>
<td></td>
<td>Loose ignition cable</td>
<td>Ensure firm connection between sparking-plug connector and ignition cable</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clamp ignition cable attachment</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Firmly plug sparking-plug connector onto sparking plug</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Engine runs in choke mode</td>
<td>Set choke to operation position</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>Fuel line obstructed or unsuitable fuel</td>
<td>Clean fuel line</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fill up fresh fuel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ventilation in fuel tank cap obstructed</td>
<td>Replace fuel tank cap</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Water or dirt in fuel system</td>
<td>Drain fuel and fill with clean, fresh fuel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Air filter contaminated</td>
<td>Clean or replace air filter</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>Incorrect carburettor adjustment</td>
<td>Adjust carburettor</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- agria-Service -</td>
<td></td>
</tr>
<tr>
<td>Petrol engine gets too hot</td>
<td>Insufficient engine oil</td>
<td>Top up engine oil immediately</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Cooling air system restricted</td>
<td>Clean fan grille</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clean interior cooling fins</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Air filter contaminated</td>
<td>Clean air filter</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>Carburettor incorrectly adjusted</td>
<td>Adjust carburettor</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- agria-Service -</td>
<td></td>
</tr>
<tr>
<td>Engine cut-out at high speed</td>
<td>Ignition distance too small</td>
<td>Adjust sparking plug</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>Idle mixture incorrectly adjusted</td>
<td>Adjust carburettor</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- agria-Service -</td>
<td></td>
</tr>
<tr>
<td>Petrol engine frequently stalls when idling</td>
<td>Ignition distance too large; sparking plug defective</td>
<td>Adjust or replace sparking plug</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>Carburettor incorrectly adjusted</td>
<td>Adjust carburettor</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- agria-Service -</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Air filter contaminated</td>
<td>Clean air filter</td>
<td>55</td>
</tr>
</tbody>
</table>
### 6 Troubleshooting and Remedies

<table>
<thead>
<tr>
<th>Fault</th>
<th>Possible cause</th>
<th>Remedy</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petrol engine works erratically</td>
<td>Control linkage contaminated, sticking</td>
<td>Clean control linkage</td>
<td>BM</td>
</tr>
<tr>
<td>Engine does not stop in stop position</td>
<td>Engine stop line defective</td>
<td>Check line and connections</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>Missing ground</td>
<td>- agria-Service -</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Check ground contact</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- agria-Service -</td>
<td></td>
</tr>
<tr>
<td>Petrol engine has insufficient power</td>
<td>Cylinder head loose or gasket damaged</td>
<td>Tighten cylinder head, replace gasket</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Insufficient compression</td>
<td>Have engine checked</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Air filter contaminated</td>
<td>Clean air filter</td>
<td>55</td>
</tr>
</tbody>
</table>

### Machine

<table>
<thead>
<tr>
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<th>Possible cause</th>
<th>Remedy</th>
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</thead>
<tbody>
<tr>
<td>Clutch does not disengage</td>
<td>Manual clutch lever incorrectly adjusted</td>
<td>Adjust clutch play</td>
<td>59</td>
</tr>
<tr>
<td>Clutch slips</td>
<td>Manual clutch lever incorrectly adjusted</td>
<td>Adjust clutch play</td>
<td>59</td>
</tr>
<tr>
<td></td>
<td>Clutch lining worn-out</td>
<td>Replace clutch disc</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>- agria-Service -</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Safety circuit incorrectly adjusted</td>
<td>Adjust safety circuit</td>
<td>59</td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>Fixing screws loose</td>
<td>Tighten fixing screws</td>
<td>62</td>
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</tbody>
</table>

BM = See separate operating instructions for engine
7 Decommissioning / Disposal

If the machine will not be further used, it must be correctly decommissioned.

⚠️ To avoid injuries during decommissioning, park the machine in a stable position and protect it against tipping over and rolling away.

ผู้เล่น Wear protective gloves.  

After decommissioning, the remaining fuel and oil must be drained and disposed of in a correct and environmentally compatible manner.

♻️ The machine consists of valuable raw materials, which can be recycled and reused.

Take the machine including the remaining technical fluids to a recycling facility for disposal.

🗑️ Dispose of old batteries and electrical/electronic parts in accordance with the applicable legal provisions. Do not dispose of as domestic waste.
### Inspection and Maintenance Overview

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<th>Page</th>
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<tr>
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<td>Check tyre pressure</td>
<td>18</td>
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<td>Check air filter</td>
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<tr>
<td>Check control linkage; clean if necessary</td>
<td>56</td>
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<tr>
<td>Clean fan grille</td>
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</tr>
<tr>
<td>Clean exhaust environment</td>
<td>56</td>
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<tr>
<td>Check or top up engine oil level</td>
<td>53</td>
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<tr>
<td>Check gearbox oil level</td>
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<tr>
<td>Tighten wheel bolts or wheel nuts</td>
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<td>First engine oil change, all others</td>
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<tr>
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<td>Check bolts and nuts</td>
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<td>Clean air filter insert</td>
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<td>Lubricate implement connection</td>
<td>B 58</td>
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<tr>
<td>Initial gearbox oil change all others</td>
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<td>Task</td>
<td>P</td>
</tr>
<tr>
<td>------</td>
<td>---</td>
</tr>
<tr>
<td>Clean deflector plates, cooling fins; earlier if necessary</td>
<td>W</td>
</tr>
<tr>
<td>Clean sparking plug, adjust electrode gap</td>
<td>K</td>
</tr>
<tr>
<td>Replace sparking plug</td>
<td>K</td>
</tr>
<tr>
<td>Clean and adjust carburettor</td>
<td>F</td>
</tr>
<tr>
<td>Adjust valve play</td>
<td>F</td>
</tr>
<tr>
<td>Clean cylinder head</td>
<td>F</td>
</tr>
<tr>
<td>Replace air filter insert</td>
<td>K</td>
</tr>
<tr>
<td>Lubricate steering bar</td>
<td>K</td>
</tr>
<tr>
<td>Lubricate all sliding parts</td>
<td>7</td>
</tr>
<tr>
<td>Replace fuel hoses</td>
<td>W</td>
</tr>
</tbody>
</table>

A = before each start-up  
B = after each cleaning, especially with a high-pressure cleaner  
BM = See separate operating instructions for engine  
F = maintenance tasks should be performed by your agria service centre  
J = at least annually  
K = inspection and maintenance tasks can be performed by the operator  
P = position in lubrication plan  
R = as required  
W = maintenance tasks can be performed by a specialist workshop  
* = after 2 years  
6 = after 6 years  
6 M = after 6 months
Electric diagram of petrol engine

1  Engine flywheel
2  Ignition coil unit
3  Sparking plug
4  Engine stop switch

sw = black
Lubrication plan

A = before each startup
J = at least yearly
B = after each cleaning, in particularly with a high-pressure cleaner
Paints, Wear parts
Agria order no.

Petrol engine fuel stabilizer:
799 09 Fuel stabilizer Bag 5 g

Paints:
181 03 Spray paint, birch green Spray can 400 ml
712 98 Spray paint red, RAL 2002 Spray can 400 ml
509 68 Spray paint black, RAL 9005 Spray can 400 ml

Tyre failure protection:
713 13 Tyre sealing gel Terra-S Can 1 litre

Wearing parts:

Machine
69256 Protective plastic cap for implement pin ø47 mm

Engine Honda
405266 Filter element, oil bath
75999 Sparking plug, Bosch WR7DC

Spare parts lists:
997 075 Two-wheel tractor 3600
997 145 Honda engine
Declaration of Conformity

EG-Konformitätserklärung
EC Declaration of Conformity

Wir erklären, dass das Produkt
déclaraons que le produit
herewith declare that the product
verklaren das Produkt

Einachsenschlepper
Motoculteur
Two-wheel tractor
Eenassige tractor

3600 075, -325

mit allen einschlägigen Bestimmungen der EG-Maschinenrichtlinie 2006/42/EG in Übereinstimmung ist.
Die Maschine ist auch in Übereinstimmung mit allen einschlägigen Bestimmungen der folgenden EG-Richtlinien:
2004/108/EG, 2000/14/EG

Est conforme à toutes les exigences respectives selon la directive relative aux machines 2006/42/CE.
La machine est aussi conforme à toutes les exigenes respectives selon les directives CE suivantes:
2004/108/CE, 2000/14/CE

conforms to all relevant specifications of the Directive on Machinery 2006/42/EC.
It is also conform to all relevant specifications of following EC directives:
2004/108/EC, 2000/14/EC

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

Folgende harmonisierte Normen (oder Teile davon) oder techn. Spezifikationen wurden angewendet:
Les normes harmonisées (ou extraits de celles ci) ou les spécifications techniques suivantes ont été appliquées:
Following harmonized standards (or parts of it) or technical specifications have been applied:


Möckmühl, den 25.11.2016

Klaus Mies
Geschäftsführer
Managing Director

Johannes-Georg Müller
Leiter Entwicklung & Konstruktion
Head, Research and Development

Herr Müller ist bevollmächtigt die technischen Unterlagen zusammenzustellen.
Mr. Müller is authorized to assort the technical documents.
De heer Müller is gemachtig om de technische documentatie op te stellen.

Anschrift/adresse/address: Agria-Werke GmbH, Bittelbronner Str. 42, D-74219 Möckmühl
Designation of parts Fig. C

Petrol engine

1. Air filter
2. Carburettor
3. Fuel tank cap
4. Fuel tank
5. Choke lever
6. Engine type no.
7. Starter handle
8. Fan grille
9. Exhaust with contact guard
10. Sparking plug/sparking-plug connector
11. Oil dipstick
12. Engine oil drain plug
13. Fuel cock