Operating Instructions
Translation of the original operating instructions

Tool Carrier
5500 Grizzly

5500 345

- Steering brake clutch
- Brake central
- Petrol engine Vanguard 19L2

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

Please complete:

Machine Type No.:......................
Identification No.: .................................................................
Engine Type:.....................................
Engine No.:....................................
Date of Purchase:............................

For name plate, refer to p4/fig. A/17.
For Engine type and number, refer to p58/fig. C/11
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:
- Two-wheel tractor
- Tool kit
- Original operating instructions
- Original engine operating instructions
- Machine identity card
(in connector cover on the outside of the cardboard box).

The completed machine identity card is to be sent back to Agria-Werke.

agria- Service
= contact your agria-workshop

Symbols

⚠️ Warning – Danger
⚠️ Important information
تناك
Fuel
Oil
Glue
Air filter
Clutch
Forward
Reverse
PTO
Brake
Parking brake
Engine Start
Engine Stop
Engine oil level
Air cooling
Transmission oil level
Visual check
Mowing drive
Wheel drive
Fast
Slow
Differential lock
Tyre air pressure
Open (unlocked)
Closed (locked)
Clockwise
Anti clockwise

agria Tool Carrier 5500 Grizzly
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Designation of Parts

Figure A

1  Eye bolt with cap nut, top
2  Hood-receiving spherical button
3  Transmission oil filling opening and oil dip-stick
4  Disc brake (safety hillholder)
5  Hexagonal nut for steering handle central mounting
6  Hooked yoke for retaining rope
7  Tool kit
8  Steering handles
9  PTO shifting mechanism
10 PTO
11 Eye bolt with cap nut, bottom
12 Wheel hub
13 Transmission drain screw
14 Name plate/Identification no.
15 Engine

Figure B

1  Locking bolt for lateral steering adjustment
3  Engine-off-switch
4  Safety shifting lever
5  Hand lever for steering brake clutch, left
6  Hand lever for clutch and safety hillholder (Vers. compact, comfort)
6  Hand lever for clutch (Vers. Premium)
7  Pawl for hand clutch lever
8  PTO shifting mechanism
9  Speed control lever
10 Gear shifting lever
11 Locking lever for R shifting (Vers. compact, comfort)
11 Gear shifting lever F-R (Vers. premium)
12 Pawl for F-R shifting
13 Lever for F-R shifting
14 Pawl for differential lock
15 Lever for differential lock
16 Hand lever for steering brake clutch, right
17 Pawl for parking brake
18 Lever for brake central
**Recommendations**

**Lubricants and Anti-Corrosive Agents**

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

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

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

Anti-corrosive agents are environmentally friendly and degrade fast.

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

**Fuel**

This engine runs perfectly using commercially available **lead-free Normal and Super petrol (also E10)** as well as **Super plus** and **Aspen 4T petrol**.

**Do not add oil to petrol.**

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

For further instructions refer to “Engine Preservation”.

**Maintenance and Repair**

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

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

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

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

Warning

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

Due Use

The tool carrier is a hand-controlled automatic single-axle machine which can power and/or pull various implements approved by the manufacturer. Areas of application are for such as turning over the ground, mowing grass and meadowland, snow clearance and sweeping (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 tool carrier is used on public roads, the local national road traffic rules must be observed, e.g. reflectors, lights.

The tool carrier is not intended for use with a trailer on public roads or as 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 standard accident prevention regulations must be adhered to, as well as all other generally accepted rules governing operational safety, occupational health and road traffic regulations.

For drives on public roads, the national traffic code applies.

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

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

Teenagers of 16 years or younger may not operate the tool carrier!

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 machine for safe operation. Compliance is for your own safety.

When transporting the machine on vehicles or trailers outside the area to be mowed, ensure that the engine is turned off.
1. Safety Instructions

Careful with rotating tools – keep at a safe distance!

Beware of coasting tools. Before you start any maintenance or repair on them, wait until tools have come to a complete stop.

Foreign powered parts shear and crush!
Riding on the attachment during operation is not permitted.

Impacts and their weight affect the driving, steering, braking, and tip-over characteristics of the machine. Therefore, ensure 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 Hazardous Area

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

Staying in hazardous area is not permitted.

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

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

For operation in enclosed areas, ensure that a 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 protective devices are mounted and positioned to provide protection.

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

Starting the engine

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

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

For starting the engine, do not step in front of the machine and the implement.

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 machine is at work.

Never adjust the operating handles during work – danger!
1. Safety Instructions

During operation the operator must keep at a distance as defined by the steering handle, especially when turning the machine.

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

If clogging occurs in the implement, turn off the engine and clean the implement with an appropriate tool.

In case of damage to the tool carrier or to the implement, 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.

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 and at a safe distance from the attachment at work.

If possible, always work horizontally on the slope.

End of Operation

Never leave the machine unattended with the engine running.

Before you leave the tool carrier, turn off the engine.

Secure tool carrier against unauthorized use. If machine is equipped with ignition key, remove the key. For all other versions, remove spark plug connector.

Implements

Only mount implements with the engine and PTO switched off.

Always use appropriate tools and wear gloves when changing implements and parts thereof.

For mounting and dismounting implements bring support leg into proper position and ensure stability.

Secure machine and implements against rolling off (parking brake, wheel chocks).

Beware of injuries while coupling implements.

Mount implements as specified and only couple at specified points.

Secure machine and implement against unauthorized use and rolling off when you leave the machine. If necessary, install transport or security devices and secure.

Mowing Attachment

Handle with care! Sharp blades of the cutter bar may cause injuries! Remove protective knife strips only for mowing and refit immediately after work has finished.

For transport and storage always mount the protective knife strips. Secure finger bars additionally with tension springs.

Do not transport the dismounted cutter bar without protective strips.
1. Safety Instructions

Before mounting and dismounting the cutter bar, make sure all blades are protected by the protective strip.

To exchange the mowing knife and to mount/dismount the knife driver, make sure that you turn screws away from cutting edges.

For grinding the mowing knives, always wear safety goggles and gloves.

Weights
Always fit weights onto appropriate weight mounting devices.

Snow Clearing
Ensure snow dozer is mounted correctly! Wear slip-proof shoes.

When swivelling the snow dozer watch out for crush and shear points. Adjust working speed to conditions. Operator may be injured when the mache comes in contact with solid objects.

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

Before you work on the engine, always remove spark plug connector (petrol engine only).

Check regularly and, if necessary, replace all protecting devices 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 machine and implement clean to avoid risk of fire.

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

After maintenance and cleaning, ensure that you re-install all safety and protective devices and adjust them properly.

Only use original agria spare parts. All other commercial 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.
1. Safety Instructions

**Engine, Fuel, and Oil**

Never let the engine run in closed rooms. Extreme danger of intoxication! For the same reason, also replace damaged exhaust parts 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 tool carrier away from the spillage before you start the engine.

Make sure fuel is of specified quality. Store fuel in approved cans only.

For safety reasons the petrol tank and fuel cap should be replaced regularly.

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 is of specified quality. Storage is in approved cans only.

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

**Tyres and Tyre Air Pressure**

When working on tyres, make sure tool carrier 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 tyre air pressure. Excessive pressure may cause bursts.

Use appropriate tyre air pressure when mounting weights or implements.

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

**Electrical System and Battery**

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

Explanation of Warning Signs

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

Do not work without protective covers mounted. Before starting the engine, bring covers in proper position.

With engine running, keep at a safe distance from cutting knife.

Do not touch moving machinery parts. Wait until they have come to a complete stop.

With engine running, keep at a safe distance from tool carrier.

Signs

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

Wear protective gloves.

Wear solid shoes.
2. Specifications

Tool Carrier

Dimensions:

<table>
<thead>
<tr>
<th>Tyre Type</th>
<th>a (mm)</th>
<th>b (mm)</th>
<th>c (mm)</th>
<th>e (mm)</th>
<th>h (mm)</th>
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<td>560</td>
<td>740</td>
<td>255</td>
<td>270</td>
<td>ca. 920</td>
<td>1270</td>
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<tr>
<td>20x8.00-10</td>
<td>560</td>
<td>740</td>
<td>255</td>
<td>270</td>
<td>ca. 920</td>
<td>1270</td>
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<tr>
<td>21x11.00-8</td>
<td>560</td>
<td>740</td>
<td>260</td>
<td>270</td>
<td>ca. 930</td>
<td>1270</td>
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</table>

Tyres: .................... 5.00 -10 field tyre

Optionally:
3490 511 ...... 20x 8.00 - 10 grass tyre
3490 611 ...... 21x11.00 - 8 terra-tyre

Tyre air pressure at:
5.00-10 / 4.50-10 .................... 1,5 bar
21x11.00 - 8 .................... 0,8 bar
20x8.00 - 10 .................... 0,8 bar

Drive-wheel attachment and application .................... see page 26 - 28.

3221 051 Pair wheel weight ...... 52 kg
2. Specifications

**Carrier Tool Grizzly premium**

Type 5500 345

**Engine:** .................... 4-stroke (petrol)
................................. Vanguard19L2

**Gearbox:** ............. Mechanical gearbox, 4 forward and 4 reverse speeds
Steering brake clutch
Brake central

**Transmission oil**
filling quantity: ............. approx. 2,0 Ltr.
Transmission oil   SAE 90 - API - GL5
(e.g. BP Energear Hypo)

**Travel Speeds** (km/h):

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<th>1.</th>
<th>2.</th>
<th>3.</th>
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<td>2,0</td>
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**PTO:** .......................... 825 rpm
gear independent
at engine speed 3600 rpm
direction of rotation:
clockwise, looking on PTO
constant in forward and reverse

**Steering handle:**
Anti-vibration steering handle bearing (2-axle-steering handle bearing) -
Licenser is Frauenhofer Gesellschaft zur Förderung der angewandten Forschung e.V. (German society for the promotion of applied research).
................................. height-adjustable, side adjustable without tools

**Vibration acceleration value:**
on handlebar grip:
Double knife mowing drive  $a_{hw} = 6,1 \text{ m/s}^2$
in accordance with EN 12733

**Weights:**
Empty weight (with fuel tank filled up):
without drive-wheels  5.00-10 ...
... kg ...

agria Tool Carrier 5500 Grizzly
### Wheel combination and Track Widths Table 5500 Grizzly premium

#### Specifications

![Diagram](image)

<table>
<thead>
<tr>
<th>B</th>
<th>60</th>
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<th>90</th>
<th>90</th>
<th>220</th>
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<th>220 + B5</th>
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<th>Gf +90</th>
<th>+S</th>
<th>V +G</th>
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<td>980</td>
<td>765</td>
<td>550</td>
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<td>1170</td>
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</tbody>
</table>

30 = 2519 011
60 = 5516 021
90 = 5519 031
220 = 5616 511
220A = 5519 011
S = 762 32
Gf (10") = 5517 531
Gf (12") = 5917 541
G (10") = 5917 011
G (12") = 5917 021
V = 5916 511
2. Specifications

Petrol Engine

Manufacturer: .......... Briggs & Stratton
Type: .................. Vanguard 19L236
Version: ................. Fan-cooled
1-cylinder-4-stroke engine (petrol) OHV
Bore: ..................... 79.2 mm
Stroke: ..................... 61.9 mm
Cubic capacity: ........... 305 ccm
Output: ........... 7.5 kW (10.2 DIN-HP) at 3600 rpm
Max torque: ... 19.80 Nm at 3100 rpm

Spark plug: .......... Bosch FR8 DCX, Champion RC12YC
Spark plug gap .......... 0.76 mm

Ingnition system: .......... Contactless electronic magnet ignition,
ignition point is pre-set, radio remote
screened according to VDE 0879

Valve lash (engine cold)
Intake: ................... 0.10 - 0.15 mm
Outlet: .................... 0.10 - 0.15 mm

Generator: .......... alternating current
12 V 120 W

Starter: .................. Recoil starter

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

Carburetor: ................. Horizontal float carburetor

Rated speed: ............... 3600 rpm
Idling speed: ............... 2000 rpm

Engine oil:
Filling quantity .......... approx. 0.8 l
Multi-grade oil
at ambient temperature -15° to +45°C:
SAE 10W-40 API-SF, SG (or higher)
at ambient temperature -25° to +15°C:
SAE 5W-30 API-SF, SG (or higher)

Noise level:
Noise level
at operator's ear .............. 84 dB(A)
(in accordance with EN 709 and EN 1553)
For values with implements refer to p31

Operability on Slopes:
Engine is suited for use on slopes (with oil level at “max” = upper level mark)
Continuous operation possible:
up to 30° inclination (58 %)

Fuel: commercially available car petrol,
octane number see engine operating instructions
Fuel tank capacity: ...... approx. 3.6 l
Fuel consumption: ............ 3.1 l/h
3. Devices and Operating Elements

The tool carrier agria 5500 Grizzly is a base power machine and is always operated with an implement mounted. Therefore, the machine is suited for all common applications in farming and forestry, as well as for winter service.

The following attachments are available:
- Mowing attachments
- Sweeping attachments
- Snow dozers and snow casters
- Gravel and salt spreaders

Engine

The four-stroke petrol engine runs on commercial petrol (refer to “Fuel Recommendations”, p6).

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.

During the first 20 operating hours (break-in period) do not use engine to maximum power.

Even after 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 durability. This applies especially for no load operation. Any overspeed (have the engine roar) can result in immediate damage.

Cooling System

Cooling system is fan-cooled. Therefore keep screen at recoil starter and cooling ribs of cylinder clean and free from sucked-in plant trash.

Idling-speed

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

Air Filter

The air filter purifies the air intake. A clogged filter reduces engine output.
3. Devices and Operating Elements

**Speed Control Lever**

The speed control lever (B/12) on the steering handle is for stepless setting of engine speed from min. = idle to max. = full throttle.

**Engine-off-Switch**

The tool carrier is equipped with an electric off-switch (B/1). This switch is for switching off the ignition system (engine is off).

“l” = operating position
“0” = engine-off position

The engine-off-switch also serves as emergency off-switch. To turn engine off quickly, bring switch into position “0”.

**Safety Circuit**

1. **Stop position:** Upon release of safety shifting lever (B/4), the ignition system is switched off (engine is off). Caution – engine continues running due to centrifugal mass.

2. **Start position:** For starting the engine and for short breaks, press the safety shifting lever, pull the hand clutch lever (B/6) and lock with pawl (B/7).

3. **Operating position:** To operate, press safety lever (B/4).

⚠️ Do not fasten safety lever.

The safety lever also serves to switch off in an emergency. In an emergency release the safety lever for fast engine switch-off. The lever automatically goes to STOP position.
3. Devices and Operating Elements

**Clutch**

The machine is equipped with a single plate dry clutch. Operation is via the hand clutch lever (B/6).

The machine is decoupled when you pull the hand clutch lever to position “0”. Now, the engine stops driving the tool carrier.

- To avoid clutch slipping away during operation, a clutch play is factory-set on the hand lever.

Do not park the machine with the clutch pulled and the **engine running**. This may damage the clutch release bearing.

Ensure the lever is pulled (pawl is locked in place) when you park the machine with the **engine stopped**, otherwise clutch problems may result due to corrosion.
3. Devices and Operating Elements

Gearbox

The machine is equipped with a 4-gear reversing transmission giving you 4 gears for forward speed and 4 gears for reverse.

Only shift gears when the engine is halted (decoupled)!

F-R Change

Move hand lever (B/11) forward = the tool carrier travels forward.

Move hand lever backward = the machine travels reverse.

Centre position = the machine is in neutral.

In F/R neutral, the machine can be pushed.

Gear Shifting

The gears 1 – 2 – 3 – 4 are engaged with the shifting lever (B/10).

There is no neutral position between these gears.

In general, you can only drive the tool carrier, if F-R-change is either in forward or reverse, no matter whether gear is engaged or not.

PTO Shifting

The gear-independent PTO (A/10) cannot be disconnected from the tool carrier (will always rotate with running engine). The PTO shifting mechanism is arranged at the PTO-shaft driven attachments.

The PTO shifting mechanism (B/8), however, is arranged at the tool carrier and is connected upon mounting of the attachment by the ball cup (A/9).
3. Devices and Operating Elements
PTO Protective Cap

If no implements are mounted (e.g. trailer, plough, harrow), clothes might be caught and wound up by PTO. Therefore, PTO must be covered with PTO protection cap.

Installing the cap:

- Hold protection cap against mounting flange.
- Fold both eye bolts into slots of protection device.
- Evenly tighten both cap nuts.

For de-installation proceed in reverse order.
3. Devices and Operating Elements

Single-Wheel Steering Brake Clutch

For easy turning, the tool carrier is equipped with an easy-use steering brake clutch.

To turn right, pull hand lever (B/16) to decelerate the right drive-wheel. With forward speed engaged, the machine turns right.

To turn left, pull hand lever (B/5).

⚠️ When turning on banks, always turn the machine towards the slope.

Service and Parking brake

To slow down or park the machine on hilly ground, use the combined central hand brake.

- **Service and Parking brake**
  Pull hand lever (B/18) – brakes act on both drive-wheels.
  Release hand lever and the lever swivels back to original position – brake is released.

- **Hand Brake**
  Pull hand lever (B/18) and lock with pawl (B/17) – both drive-wheels are blocked.
  To release hand brake, unlock pawl (B/17) and release lever (B/18) – brake is released.
3. Devices and Operating Elements

Steering Handle

⚠️ Do never adjust operating handles during working - risk of accidents!

Steering Handle Height Adjustment

- Unfix ball handle levers \( \text{A} \) on either side until the ratchets \( \text{B} \) are free.
- Bring left and right steering handle to the desired height and introduce into the respective ratchet.
- Tighten ball handle levers \( \text{A} \) again.

Steering Handle Lateral Adjustment

From its normal position (centre position), the steering handle can be turned by about 30° to the left or right.

- Pull ball handle \( \text{B/1} \) upwards and keep it in position; then turn steering handle to the left or right into the desired position.
- Release ball handle and slightly move steering handle to the left and right until the fixing bolt is engaged.

Eyelet for Loading

The hooked yoke \( \text{A/6} \) is meant for loading the machine and for suspending the retaining rope for works on slopes.

Do not use any loading devices with sharp edges (e.g. sharp-edged hooks, lugs etc.).

Never walk or remain under moving loads. Danger!

Fixing Points

For towing away, recovering and tying down and to ensure a safe transport, use the fixing Points \( \text{○○} \) at the connection flange and engine food guard.

Lashing in other places can lead to damage.
3. Devices and Operating Elements

Drive-Wheels

For full tractive power, mount wheels with pointed parts of lugs showing in travel direction (wheels seen from above). Fit the countersunk side of spring-lock washer into countersink-type holes of disk wheel (see fig. “Wheel Attachment Bolts”).

The wheels can also be mounted either on their inner or outer sides for variable track widths (see track widths table, p15).

Wheel Attachment Bolts

Version A wheel bolt with spring-lock washer.
Version B locking bolt with spring-lock washer and wheel nut.

Screw short thread end of locking bolt tightly into hub, if possible, glue with LOCTITE 270 (or similar glue).
Fit countersunk side of spring-lock washer onto disk wheel.

On a new machine or after wheel change, re-tighten wheel bolts and nuts after the first 2 operating hours with 100 Nm. Retighten bolts and nuts in each maintenance.

Snow Chains

When working with snow chains fitted on wheels, observe manufacturer’s instructions, make sure there is sufficient clearance between chains and machine parts.
3. Devices and Operating Elements

**Drive-Wheel Use**

<table>
<thead>
<tr>
<th>Tyre</th>
<th>Tread Profile</th>
<th>Use</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00-10</td>
<td>field tyre</td>
<td></td>
<td>0190 111</td>
</tr>
<tr>
<td>20x8.00-10</td>
<td>grass tyre</td>
<td>grass maintenance</td>
<td>3490 511</td>
</tr>
<tr>
<td>21x11.00-8</td>
<td>Terra tyre</td>
<td>mowing on soft (boggy)</td>
<td>3490 611</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(boggy) ground</td>
<td>+ Intermediate flange 5519 031</td>
</tr>
</tbody>
</table>

*For mowing on extremely steep slopes, we recommend using twin-wheels.*
3. Devices and Operating Elements

**Track-Width Adjuster on Twin Wheels**

Order of mounting ① - ⑤

Please note:
① Using wheel attachment bolts version B.
③ Fit the spring lock washers between the wheel bowl and track-width adjuster (centering).

**Differential Hubs on Twin Wheels**

Order of mounting ① - ⑤

Please note:
① Using wheel attachment bolts version B.
③ Fit the spring lock washers between the wheel bowl and track-width adjuster (centering).

**Lubrication**

Lubricate the wheel flange lube nipple at intervals of 100 operating hours or after cleaning with a pressure washer. Use a grease gun (Bio lubrication grease).

**Adjustment of the differential hub**

The differential hubs are factory-set to differential effect, mounting of rigid position see fig.
3. Devices and Operating Elements

Hood

Remove Hood
- Lift rear end of hood.
- Lift front end of hood and completely remove it.

Placing Hood
- Place front and rear of hood with the rubber cups onto the ball heads.
- By slightly applying pressure to the rear and front of the engine cowling, have the ball cups engage in the ball heads.

To facilitate the installation, you may apply some bio-grease onto the rubber cups.
Coupling and Decoupling Implements

Mount and dismount attachments only with engine switched off!

Coupling Attachments:
Ensure that coupling surfaces on tool carrier and attachment are clean. Clean, if necessary.

1. For PTO-driven attachment, move lever (4) on the attachment to position “0”.

2. Coupling sleeve should slightly be greased with Bio-lubrication grease.

3. Slide pegs (2) of basic machine into hooks (3) of attachment.

4. Fold both eye bolts (1) over coupling flange.

Note:
- Make sure flanges (5) are properly centred and flat fitted.
- Tighten cap nuts evenly.

5. For PTO driven attachment, press link (6) onto shift lever (4) until it locks into place. Insert circlip and secure.

For decoupling, proceed in reverse order.
4. Commissioning and Operation

Commissioning

Please note that durability and operational safety of the engine depend to a large extent on its breaking-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.

- Check transmission oil level (see page 43)

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

Before you operate the engine the first time, fill in engine oil (see page 39)!
4. Commissioning and Operation

Starting Petrol Engine

Never start engine in closed rooms. Exhaust fumes contain carbon monoxide, which acts toxic when inhaled.

1. Check the engine oil level
2. Air filter clean?
3. Sufficient fuel is filled into the tank?
4. Mount spark plug connector
5. Open both fuel taps (C/3 or D/3 + D/15).
6. Choke
   - Cold engine: turn CHOKE lever (C/5) to the left.
   - Warm engine: leave CHOKE lever in normal operating position or pull out half way.
7. Set ON-OFF switch (B/3) to operating position.
8. Set speed control lever (B/9) to 1/3 throttle.
9. Pull hand clutch lever (B/4) and lock pawl (B/7).
10. Pull starting-rope on handle (C/6 or D/6) until you feel starter clutch engage. Then pull hard and fast to start the engine. After the start, carefully let rope glide back. Do not let snap.
11. Once the engine has started, let it warm up for some time. Slowly push choke back into operating position, if necessary.
Turning off Petrol Engine

1. Actuate brake

2. Set speed control lever to idle position and let engine run idle for approx. half a minute.

3. Set engine-off-switch to “0”.

4. Close fuel tap (C/3).


   *Engine-off-switch (B/3) also serves as emergency off-switch.*

   If necessary, set switch to “0” to turn engine off.

   *For parking the machine for longer periods of no operation, do not use engine-off-switch to turn off engine, but close fuel taps and let engine run until it slowly comes to a complete stop. This ensures carburetor to be empty and no resin residue to deposit.*
4. Commissioning and Operation

Operations

1. Start engine as described in “Starting the Engine”.

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

2. Engage appropriate gear.

3. Wear individual protective ear plugs and solid shoes.

4. Switch on PTO.

5. Move F/R drive to position forward.

6. Release the brake.

7. Slowly release the hand clutch lever while pressing the throttle.

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.

For direction change from forward to reverse, proceed as follows:

1. Set speed control lever to idling position.

2. Pull hand clutch lever and hold.

3. Move F/R drive to position reverse.

4. Slowly release hand clutch lever while pressing the throttle.
Always switch off the working elements when transporting or moving to adjacent areas!

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.

Never leave two-wheel tractor unattended with the engine running.

If cleaning becomes necessary during operation, the engine must be shut off and the spark plug connector disconnected or the ignition key removed for safety reasons.

Danger Zone

Pay attention to the operating instructions and safety advice given for implements.

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 (the whole of the area to be worked upon).

The danger area varies according to the implement fitted (A) (for working and transporting movement):

<table>
<thead>
<tr>
<th>Implement</th>
<th>V</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hoeing and tilling equipment</td>
<td>1 m</td>
<td>1 m</td>
</tr>
<tr>
<td>Cutter bar</td>
<td>2 m</td>
<td>1 m</td>
</tr>
<tr>
<td>Rotary mower</td>
<td>* 25 m</td>
<td>* 25 m</td>
</tr>
<tr>
<td>Flail mower</td>
<td>* 20 m</td>
<td>3 m</td>
</tr>
<tr>
<td>Safety Mulcher</td>
<td>* 20 m</td>
<td>3 m</td>
</tr>
<tr>
<td>Band rake</td>
<td>2 m</td>
<td>2 m</td>
</tr>
<tr>
<td>Baler mountainpress</td>
<td>3 m</td>
<td>2 m</td>
</tr>
<tr>
<td>Sweeper</td>
<td>3 m</td>
<td>3 m</td>
</tr>
<tr>
<td>Snow dozer</td>
<td>2 m</td>
<td>1 m</td>
</tr>
<tr>
<td>Stone burier</td>
<td>2 m</td>
<td>2 m</td>
</tr>
<tr>
<td>Power harrow</td>
<td>2 m</td>
<td>2 m</td>
</tr>
<tr>
<td>Surface conditioner</td>
<td>2 m</td>
<td>2 m</td>
</tr>
<tr>
<td>Weed brush</td>
<td>3 m</td>
<td>3 m</td>
</tr>
</tbody>
</table>
Mowing on Slopes

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

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 slipping 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 Slopes

1. Keep the mowing drive and travelling drive in engaged mode; braking effect.
2. Move the hand clutch lever and safety shifting lever to “Start” position.
4. Commissioning and Operation

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.

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
Safety references for the handling

- Do not run the engine in closed areas, in which dangerous carbon monoxide can accumulate itself.
- Always wear safety 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 work transverse to the slope, never slope up or downward.
- Be particularly careful, if you change the driving direction on slopes.
- Only lead the machine at the step speed.
- Be particularly careful, if you turn the machine around or pull it to itself.
- When hoeing and tilling on difficult ground (stony, hard etc.) the machine may give sudden jerking movements in an upward and forward direction and therefore extra care should be taken under these conditions.
- Always switch off the working elements when transporting or moving to adjacent areas!
- 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 taps 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

Petrol engine

Apart from observing all operating instructions, it is also important to pay attention to the following maintenance instructions.

Please note:

Only do all maintenance work with the engine switched off and spark plug connector disconnected!

When working on mowing knives, wear safety gloves!

### Engine

#### Check Oil Level

each time you take up operation and after every 8 operating hours,

- only with engine switched off and in horizontal position.
- Clean oil plug and surrounding parts.
- Remove oil plug, clean dipstick with a clean cloth and dip back into oil tank (do not screw in), take out dipstick and read oil level.
- In case oil level is below lower mark "min", refill engine oil (refer to “Specifications”) until oil level reaches rim of oil filler neck "max".

#### Changing Engine Oil

The first oil change is after 25 operating hours. Following oil changes are after every 50 operating hours. Change oil while engine is still warm, but not hot – danger of burns!

- Clean filling- and drain plug and surrounding parts.
- Change the oil and dispose of properly.

Check sealing washer for good condition and exchange, if necessary!

- For engine oil quality refer to “Specifications”.

A; 8 h

STOP

max. min.

25 h (50 h)

STOP
**5. Maintenance**

**Petrol engine**

---

**Dry-Type Air Filter**

When you take up operation check the air filter (C/4) on dirt, clean it if necessary.

Clean the air filter at least every 25 operating hours or **once a year**, after some hours in very dusty conditions:

1. Release the fastener (A)
2. Remove the cover (B)
3. Remove the fastener (E)
4. To prevent debris from falling into the carburetor, carefully remove the pre-filter (D) and filter (C) from the air filter plate (F).
5. Disconnect the pre-filter (D) from the filter (C).
6. Lightly tap the filter (C) against a hard surface to remove debris. If the filter is very dirty, it must be replaced.
7. Wash the pre-filter (D) in liquid detergent and water. Allow the prefilter to air dry thoroughly. Do not oil the pre-filter.
8. Attach the dry pre-filter (D) to the filter (C).
9. Install the gasket (H), filter and pre-filter on the air filter plate and stud bolt. Attach fastener (E).
10. Install the cover and secure it with the fastener (A).

Make sure that the fastener is firm.

Replace immediately damaged filter elements.
5. Maintenance  

Petrol engine

Please observe that only those activities are described here which are required for operating the two-wheel tractor. All other information on the engine may be taken from the enclosed engine operating instructions!

Spark Plug

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

Cleaning the Cooling System

Clogging of plants and dust may occur in the cooling system. Operation with the cooling system clogged lets the engine heat up and causes damage.

- Always check the fan grille (C/7) and remove dirt and plants sucked in.
- Clean fan system at least once per year, preferably before the season starts. Take off fan case and clean cooling fins on both, cylinder and cylinder head, clean guiding plates and fan wheel, both serving for good air circulation.

→ agria- Service
5. Maintenance  Petrol engine

Exhaust System

Check exhaust system (C/9) on a regular basis for plant trash and clean, if necessary. Otherwise

⚠️ danger of fire results.

Check each time before you take up operation. Replace any damaged exhaust parts.

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.

Fuel Hoses

Exchange fuel hoses every 2 years. Leaking hoses must be exchanged immediately.

Idling Speed

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

→ agria- Service←

Idling Speed Governor

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

**Machine**

**Gearbox**

Check transmission oil level before you take up operation and after every 50 operating hours (oil dipstick (A/3).

The machine parked in horizontal position, the oil level is between the notches max. and min.

- Remove oil dipstick, clean with a clean cloth and put it back in.
- Remove the dipstick again and read the oil level, refill transmission oil, if necessary.

**Change transmission oil** after the first 50 operating hours and after every 200 operating hours while the engine is still warm.

1. Clean the oil filler plug (A/3) and the drain plug (A/16) as well as the surrounding parts.
2. Change oil, collect the old oil in a proper container and dispose of properly.

Check and exchange o-rings, if necessary. Tighten the drain plug!

For filling quantity and oil quality refer to “Specifications”.
5. Maintenance

**Drive wheels**

- When commissioning the mower and each time you change wheels, check and tighten wheel bolts and nuts after the first 2 operating hours with 100 Nm; Proceed likewise when doing maintenance work.
- Retighten the wheel flange locking nuts (A/12) after the first 2 operating hours, then every 50 operating hours with 100 Nm.
- Check the tyre air pressure regularly. For smooth driving, make sure that there is the same pressure in both tyres.

The maximum tyre pressure can be read from the tyre wall.

*There is a risk of an explosion if the tyre pressure is too high.*

Repair work on the tyres and replacement of tyres may only be carried out by specialists and with appropriate fitting tools.

**Steering Handle Locking Bolt**

Occasionally lubricate nipple on locking bolt of steering handle with Bio-lubrication grease. Lubricate at least once a year and after cleaning with air-compressed water jets.
5. Maintenance

Steering Handle Central Mounting

Re-tighten adjustment nut (3) with **100 Nm** after the first **4** operating hours, then after every **50** operating hours.

- Remove pin retention to unscrew fastening nut for steering handle (5).
- Remove steering handle and place aside.
- Loosen lock nut (4).
- Tighten adjustment nut (3) with **100 Nm**.
- Re-tighten lock nut (4) (lock).
- Mount steering handle. Brush some lubrication grease onto gliding faces, if necessary.
- Screw on fastening nut (5) until steering handle is without play but can still be swivelled. Secure with pin.

Steering Handle Pendulum Stop

This **2-axle-steering handle bearing** provides optimum dampening when each of the two stop buffers is adjusted to a play of **A = 0.5 mm** (in position zero, with no load on steering handle) to the stop plate.

Adjustment:

1. Loosen hexagonal nuts (2).
2. Adjust stop buffer (1) by turning it to the above stated play.
3. Re-tighten hexagonal nut (lock).
5. Maintenance

Safety Circuit

Check dead stop for proper function each time you take up operation and each time you do maintenance work on the machine.

- With clutch engaged and upon release of safety lever (B/4), the engine must automatically come to a stop.
- Check electric conductors and connections for good condition, exchange, if necessary.
  → agria- Service

Engine-Off-Switch

Check engine-off-switch for proper function each time you do maintenance work on the machine.

- With the engine-off-switch in position „0“, the engine must come to a stop.
- Check electric conductors and connections for good condition.
  → agria- Service
Adjustments on Hand Levers

Check clutch play or adjustments each time you operate the machine. If necessary, readjust (especially after commissioning the machine, during break-in period, and after exchanging clutch linings).

Clutch:

\[ X = 1 - 3 \text{ mm} \]  
(Clutch play)

! = The Bowden cable must be placed in the hand lever support on bottom position!

Adjustment:

1. Remove retaining spring (2).
2. Remove cable end (3) and set pin (4) out of bracket in hand lever.
3. Screw the set pin (4) in or out (+ -) to a play of X or idle is present in position 0.
4. Place cable end and set pin back into bracket.
5. Fit retaining spring (2).
5. Maintenance

Graphic Symbols

Worn and missing stickers with operating and safety instructions must be replaced.

1 698 83
2 794 26
3 794 27
4 787 72
5 757 98
6 757 47
7 787 71
8 757 50
9 757 38
5. Maintenance

General Maintenance

1. Every time you take up operation watch out for fuel and oil leakage, repair if necessary.

2. Regularly check bolts and nuts for tight fit, re-tighten, if necessary.
After every 50 operating hours, at least once a year and after cleaning:

3. Lubricate all gliding and moving parts with Bio-lubricating grease or Bio-lubricating oil (e.g. speed control lever, handle bearing etc.).

Cleaning

Engine

Clean engine only with a cloth. Avoid spraying with water jets, as water might penetrate into ignition and fuel system and cause malfunctions.

Do not hose down electrical components (switches, plugs) directly with a high-pressure water jet.

Machine: After each use, clean thoroughly immediately with water. Grease all gliding parts with Bio-ubricating grease and Bio-slushing oil.

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.
5. Maintenance

Storage

For longer periods of no operation:

a) Clean thoroughly
   Repair paint coat

b) Spray all shining parts, in particular cutter bar, with Bio-slushing oil.

c) Engine preservation
   - Drain the fuel completely from the system or fill the fuel tank and add stabilisator (agria No. 763 50) to the fuel tank
   - Observe instructions.
   Operate the engine for approx. 1 minute.
   - Change the engine oil.
   - Fill a teaspoon of engine oil (approx. 0.03l) into the spark plug opening. Slowly crank the engine.
   - Reinstall the spark plug and set the valves on compression using the recoil starter (Pull the starter rope until you feel resistance), the valves are closed.
   - Crank the engine slowly at 2–3 week intervals (spark plug connector is removed!) and set the valves on compression again.

d) 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 uninflated.

e) Clutch
   Always park mower with hand clutch lever pulled (pawl locked in place). Otherwise, clutch problems may result due to corrosion.

f) 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.

g) Protect machine
   with cloth or a similar cover.
### 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>Possible solution</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Petrol Engine:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<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 not in right position</td>
<td>Set Choke to right position</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>- Engine-off-switch is set to “0”</td>
<td>Set engine-off-switch to “I”</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>- Safety circuit is not set to start position</td>
<td>Set safety circuit to start position</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>- Fuel tank empty or poor fuel</td>
<td>Fill fresh fuel</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>- Fuel line clogged</td>
<td>Clean fuel line</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td>- Defective spark plug</td>
<td>Clean, adjust or exchange spark plug</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Engine too much fuel</td>
<td>Dry and adjust spark plug and start at full throttle</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Engine-off-line defective</td>
<td>Check line and connections</td>
<td>*</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>32</td>
</tr>
<tr>
<td></td>
<td>- Loose ignition cable</td>
<td>Fix ignition cable retaining device, fit connector tightly on ignition cable, fit connector tightly on spark plug</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Clogged fuel line or poor fuel</td>
<td>Clean fuel line, fill fresh fuel</td>
<td>31</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>40</td>
</tr>
</tbody>
</table>
| | - Air filter clogged | Clean air filter or exchange | *
| | - Carburetor misadjusted | Re-adjust carburetor | *
| | - Impaired cooling | Clean cooling fan grid, clean internal cooling ribs | 41 |
| | - Air filter clogged | Clean air filter | 40 |
| | - Carburetor misadjusted | Re-adjust carburetor | *
| Misfirings in engine at high speeds | - Short firing intervals | Adjust spark plug | |
| | - Incorrect idle mixture | Adjust carburetor | * |
| Engine frequently stalls in idle | - Firing interval too long, defective spark plug | Adjust or replace spark plug | |
| | - Carburetor misadjusted | Re-adjust carburetor | * |
| | - Air filter clogged | Clean air filter | 40 |
6. Troubleshooting, Disposal

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Possible solution</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine does not run smoothly</td>
<td>- Speed control linkages clogged or jammed</td>
<td>Clean speed control linkages</td>
<td></td>
</tr>
<tr>
<td>Engine does not stop when set to stop</td>
<td>- Defective engine-stop line, earth missing</td>
<td>Check line and connection, check earth contact</td>
<td></td>
</tr>
<tr>
<td>Engine output too low</td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>- Loose cylinder head or damaged sealing</td>
<td>Tighten cylinder head, exchange sealing</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>- Poor compression</td>
<td>Have engine checked</td>
<td>*</td>
</tr>
<tr>
<td>Machine in General:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clutch does not decouple</td>
<td>- Hand clutch lever misadjusted</td>
<td>Adjust clutch free play</td>
<td>47</td>
</tr>
<tr>
<td>Clutch slips</td>
<td>- Hand clutch lever misadjusted</td>
<td>Adjust clutch free play</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>- Worn out clutch</td>
<td>Exchange clutch disc</td>
<td>*</td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>- Loosened screws</td>
<td>Tighten fastening screws</td>
<td>50</td>
</tr>
</tbody>
</table>

* = For this purpose contact your agria workshop.

7. Decommissioning, Disposal

Decommissioning

If the two-wheel tractor is no longer used, professional decommissioning should be carried out.

⚠️ To avoid injury when decommissioning the two-wheel tractor unit must be parked in a stable position and secured against tipping over and rolling away.

Wear protective gloves.

Disposal

After decommissioning the remaining fuel and oil must be discharged and disposed of in a correct and environmentally-friendly manner.

The agria two-wheel tractor is made from valuable raw materials which can be reused by recycling.

Hand over the device for disposal, together with its remaining technical liquids, to a recycling company.

Dispose of old batteries and electrical/electronic parts in accordance with the applicable legal provisions. Do not dispose of as domestic waste.
Electric Circuit

Safety Circuit

1 Engine
2 Magnet ignition system
3 Engine-off-switch
4 Switch in clutch lever
5 Switch in safety lever

Varnishes, Wear Parts

agria Order No.

Fuel stabilizer
673 50 Fuel stabilizer bottle 250 ml

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

Wear Parts

Engine
Paper air filter, Briggs & Stratton engine
Pre-filter, Briggs & Stratton engine
706 09 Spark plug, Bosch FR8DCX

Transmission
009 16 Sealing washer 16x22x1.5; oil dip stick and oil drain plug

Emergency Tyre Repair
713 13 Tyre repair gel Terra-S bottle 1 l

Lists of Spare Parts
997 024 Tool carrier 5500
997 083 Attachments for 3400/5500
997 137 Briggs & Stratton Engines
Lubrication Plan

5

B

6

B

3

25 h

max
min.

4

B = yearly and always after cleaning with a high-pressure cleaner

200 h

(50 h)

1

8 h

2

50 h

(25h)

B
## Inspection and Maintenance Chart

<table>
<thead>
<tr>
<th>Item in lubrication chart</th>
<th>A</th>
<th>2</th>
<th>4</th>
<th>8</th>
<th>25</th>
<th>50</th>
<th>100</th>
<th>200</th>
<th>400</th>
<th>min. every 3 months</th>
<th>min. yearly</th>
<th>B</th>
<th>page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check bolts and nuts</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>50</td>
<td>42</td>
<td>40</td>
<td>41</td>
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<tr>
<td>Clean surrounding parts of exhaust</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
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<tr>
<td>Check air-filter</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>50</td>
<td>42</td>
<td>40</td>
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<td></td>
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<tr>
<td>Clean cooling-screen</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>50</td>
<td>42</td>
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<tr>
<td>Check steering handle pendulum stop</td>
<td>K</td>
<td>K</td>
<td>K</td>
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<td>K</td>
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<td>Check safety circuit function</td>
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<td>Check engine shut-off switch function</td>
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<td>K</td>
<td>K</td>
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<tr>
<td>Check clearance of hand levers</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
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<td>40</td>
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<tr>
<td>Check engine oil level, refill, if necessary</td>
<td>1</td>
<td>K</td>
<td>K</td>
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<tr>
<td>Check transmission oil level</td>
<td>3</td>
<td>K</td>
<td>K</td>
<td>K</td>
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<td>Tighten wheel bolts and nuts</td>
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<td>K</td>
<td>K</td>
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<td>Retighten hex nuts for wheel flanges</td>
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<td>Tighten steering handle central clamping</td>
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<td>Cleaning</td>
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<td>First engine oil change,</td>
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<td>W</td>
<td>W</td>
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<tr>
<td>subsequent oil changes</td>
<td>2</td>
<td>W</td>
<td>W</td>
<td>W</td>
<td>W</td>
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<tr>
<td>Clean air-filter insert</td>
<td>K</td>
<td>W</td>
<td>W</td>
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<td>W</td>
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<tr>
<td>Lubricate all sliding parts</td>
<td>6</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
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<td>First transmission oil change,</td>
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<td>W</td>
<td>W</td>
<td>W</td>
<td>W</td>
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<td>40</td>
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<tr>
<td>Lubricate differential hubs of twin-wheels</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
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<tr>
<td>Clean spark plug, adjust electrode gap</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
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<td>50</td>
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<tr>
<td>Clean guide plates, cooling fins – earlier, if required</td>
<td>F</td>
<td>F</td>
<td>F</td>
<td>F</td>
<td>F</td>
<td>50</td>
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<tr>
<td>Replace spark plug</td>
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<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>50</td>
<td>42</td>
<td>40</td>
<td>41</td>
<td></td>
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</tr>
<tr>
<td>Replace air filter insert, earlier, if required</td>
<td>W</td>
<td>W</td>
<td>W</td>
<td>W</td>
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<tr>
<td>Clean carburetor and adjust idle speed</td>
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<td>F</td>
<td>F</td>
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<td>50</td>
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<tr>
<td>Clean cylinder head</td>
<td>F</td>
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<tr>
<td>Adjust valve clearance</td>
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<td>F</td>
<td>F</td>
<td>F</td>
<td>50</td>
<td>42</td>
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</tr>
<tr>
<td>Grease steering handle locking bolt</td>
<td>5</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
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<td>42</td>
<td>40</td>
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<tr>
<td>Replace fuel hoses</td>
<td>W*</td>
<td>W*</td>
<td>W*</td>
<td>W*</td>
<td>W*</td>
<td>50</td>
<td>42</td>
<td>40</td>
<td>41</td>
<td></td>
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</tr>
</tbody>
</table>

**P** = Item in lubrication chart  
**A** = Each time before you take up operation  
**B** = After each cleaning, in particular with high-pressure cleaner  
**K** = Checks and maintenance to be executed by operator  
**W** = Maintenance to be executed by professional workshop  
**F** = Maintenance should be carried out by your agria workshop  
**BM** = Operator’s Manual Engine  
**= after 2 years
Figure C

Engine B & S 19L232

1. Fuel tank cap
2. Fuel tank
3. Kraftstoff-/Zündungshebel
4. Air filter
5. Choke lever
6. Starter handle
7. Recoil starter/fan grille
8. Spark plug connector
9. Exhaust
10. Engine oil filler neck with oil dip-stick
11. Engine type
12. Engine oil drain plug
# Conformity Declaration

**EG-Konformitätserklärung**  
**EC Declaration of Conformity**  
**CE Déclaration de conformité**  
**EG conformiteitsverklaring**

<table>
<thead>
<tr>
<th>D</th>
<th>F</th>
<th>GB</th>
<th>NL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wir</td>
<td>Nous</td>
<td>We</td>
<td>Wij</td>
</tr>
</tbody>
</table>

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

erklären, dass das Produkt  
déclarons que le produit  
herewith declare that the product  
verklaren dat het produkt

Geräteträger  
Porte-outils  
Implement Carrier  
Werktuigdrager

5500 345

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-Richtlinie:  
2004/108/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 exigences respectives selon la directive CE suivante:  
2004/108/CE

conforms to all relevant specifications of the Directive on Machinery 2006/42/EC.  
It also conforms to all relevant specifications of following EC directive:  
2004/108/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-richtlijne:  
2004/108/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:

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

DIN EN ISO 12100: 2010

Möckmühl, 10.10.2018

Klaus Mies  
Geschäftsführer

Manfred Beek  
Leiter Entwicklung & Konstruktion

Directeur  
Responsable développement et études

Managing Director  
Head, Research and Development

Bedrijfsleider  
Hoofd ontwikkeling en constructie

Herr Beek ist bevollmächtigt die technischen Unterlagen zusammenzustellen.  
Monsieur Beek est habilité à agencer la documentation technique.  
Mr. Beek is authorized to compile the technical documents.  
De heer Beek is gemachtigd om de technische documentatie op te stellen.  
Anschrift/adresse/address/adres:  
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D-74219 Möckmühl
Tel. +49 6298 39-0
Fax +49 6298 39-111
e-mail: info@agria.de
Internet: www.agria.de

Your local **agria** specialist dealer: