Before commissioning the engine, read operating instructions and observe warnings and safety instructions.
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Note fold-out pages!

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Please complete:

| Machine Type No.:                      |
| ID/Machine No.:                        |
| Engine Type:                           |
| Engine No.:                            |
| Date of Purchase:                      |

For name plate, refer to p5/fig. A/17.
For Engine type and number, refer to p40/fig. D/1.
Please state these data when ordering spare parts to avoid wrong deliveries.

**Only use original AGRIA spare parts!**

Specifications, figures and dimensions stated in these instructions are not binding. No claims can be derived from them. We reserve the right for improvements without changing these instructions.

This delivery comprises:
- Operating instructions
- Municipal tool carrier
- Tool kit

Symbols:

- ! Warning – Danger
- • Important information
- • Choke
- • Fuel
- • Oil
- • Mowing drive
- • Travelling drive
- • Forward
- • Reverse
- • Brake
- • Open (unlocked)
- • Closed (locked)
**Recommendations**

**Lubricants and Anti-Corrosive Agents**

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

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

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

Anti-corrosive agents are environmentally friendly and degrade fast.

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

**Fuel**

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

**Do not add oil to petrol.**

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

When storing the municipal tool carrier at the end of the season, also drain leaded fuel completely or add a fuel stabilizing liquid.

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.
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 Hexagonal nut for steering handle central mounting
5 Ball handle for steering handle side adjustment
6 Eyelet for assist rope
7 Tool kit
8 Eccentric lever for central brake
9 Steering handles
10 PTO
11 Eye bolt with cap nut, bottom
12 Connecting stick for PTO drive
13 Expansion bellows for steering brake clutch
14 Retaining clamp for connecting stick
15 Steering brake clutch
16 Transmission drain screw
17 Name plate/ID no.

Figure B
1 Engine-off-switch
2 Safety lever
3 Hand lever for steering brake clutch, left
4 Hand lever for engine clutch
5 Pawl for engine hand clutch lever
6 Attachment screw for steering handle height adjustment
7 Shifter for travelling drive, 1st–4th gear
8 Ball handle for steering handle side adjustment
9 Shifter for forward-reverse change
10 Eccentric lever for central brake
11 Shifter for PTO drive
12 Speed control lever
13 Hand lever for steering brake clutch, right
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 municipal tool carrier has exclusively been designed for all common applications and tasks in forestry, grass and park maintenance, and winter service (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.

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 municipal 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 municipal 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.

Operates 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 municipal 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 municipal tool carrier, turn off the engine.

Secure municipal 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 pipe immediately.

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 municipal tool carrier away from the spillage before you start the engine.

Make sure fuel is of specified quality.

Store fuel in approved cans only.

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

Read and observe enclosed instructions.

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

Be careful when draining hot oil, danger of burns.

Make sure oil 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 municipal 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.

With engine running, keep at a safe distance from cutting or hoeing tools.

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 municipal tool carrier.
2. Specifications

Dimensions [mm]

\[ a = 740 \]
\[ b = 710 \]
\[ c = 303 \]
\[ e = 490 \]
\[ h = \text{ca. 920} \]
\[ l = 1320 \]

\[ S = \]
\[ A = \] see track width plan

Track Width Plan

[mm]

<table>
<thead>
<tr>
<th>Tyres:</th>
<th>A</th>
<th>S</th>
<th>i</th>
<th>A (twin-wheel)</th>
<th>A (strake-wheel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.00-8</td>
<td>645</td>
<td>535</td>
<td>425</td>
<td>980/1100</td>
<td>1070</td>
</tr>
<tr>
<td>5.0-10</td>
<td>690</td>
<td>550</td>
<td>410</td>
<td>995/1155</td>
<td>1120</td>
</tr>
<tr>
<td>16x6.50-8</td>
<td>750</td>
<td>585</td>
<td>420</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21x11.00-8*</td>
<td>930</td>
<td>650</td>
<td>370</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* = with intermediate flange 5519 031
2. Specifications

**Type:** .......................... 5500 KL

**Tyres:** .................. 5.0-10 (field tyre)

**Tyre air pressure:** ............. 1.5 bar

**Weight:** .......................... 135 kg

**Clutch:** .......... Single plate dry clutch

**Gearbox:** ........ Mechanical gearbox

- F-R reversing gear
- 4 forward and 4 reverse speeds
- Single-wheel steering brake clutch
- Central brake

**Transmission oil filling quantity:** .... approx. 1.8 l

Transmission oil SAE 90-API GL5
  (e.g. Energear Hypo)

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

<table>
<thead>
<tr>
<th>Tyres</th>
<th>forward and reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gear [km/h]</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td>4.00-8</td>
<td>0.85</td>
</tr>
<tr>
<td>5.0-10</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**PTO:** .......................... 825 rpm

- gear independent
- at engine speed 3600 rpm

**Direction of rotation:**

- clockwise, looking on PTO
- constant in forward and reverse

**Vibration acceleration value:**

on handlebar grip ........... $a_{hw} = 2.5 \text{ m/s}^2$

in accordance with ISO 5349 at 85% of rated engine speed with tools at work

**Steering handle:**

Anti-vibration steering handle bearing (2-axle-steering handle bearing)* with a K-value (vibration value) of $<16$ (AGRIA model 5400 531); maximum exposition time is 8 hours.

Height-adjustable; side-adjustable without tools.

* Licenser is Frauenhofer Gesellschaft zur Förderung der angewandten Forschung e.V. (German society for the promotion of applied research).
2. Specifications

EngineEH 34 D

Manufacturer: ......................... Robin

Type: ................................. EH 34 D

Version: ..................... Fan-cooled
1-cylinder-4-stroke engine (petrol)

Bore: ............................. 84 mm

Stroke: ............................. 71 mm

Cubic capacity: ............ 338 ccm

Output: ...................... 8.1 kW (11 DIN-hp)
at 3600 rpm

Max torque: ..................... 24.1 Nm
at 2500 rpm

Spark plug: ............... Bosch WR7CC
NGK BR6ES, Champion RN4
Space between electrodes 0.6–0.7 mm

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

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

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

Fuel: ................. Commercial petrol
min. octane number 85 RON
(refer to fuel recommendations)

Fuel tank capacity: ........ approx. 8 l

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

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

Main jet: ....................... 97.5
Idle jet: ......................... 40

Mixture control
screw: .......... Basic setting 7/8 revs. open

Rated speed: ...................... 3600 rpm

Top no-load speed: ............ 3800 rpm

Idling speed: .................... 1400 rpm

Engine oil:
Filling quantity ................. approx. 1,2 l

Multi-grade oil
at ambient temperature -15° to +45°C:
SAE 10W-40 API-SC (or higher)
at ambient temperature -25° to +15°C:
SAE 10W-20 API-SC (or higher)

Noise level:
In accordance with German 3rd
Ordinance on machine-safety law:

Noise level
at operator’s ear .................. 87 dBA
(in accordance with regulations of Ger-
man Agricultural Association)

Sound level: ................... 99.5 dBA
in accordance with EC 84/538/EEC at
85% of engine rated speed

Operability on Slopes:
Engine is suited for use on slopes
(with oil level at “max” = upper level
mark)

Continuous operation possible:
up to 45° inclination (100%)
3. Devices and Operating Elements

The municipal tool carrier AGRIA 5500 KL is suited for common horticultural, agricultural, and forestal operations, for grass and park maintenance and for winter service operation.

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

Engine

The four-stroke petrol engine runs on commercial petrol (refer to “Fuel Recommendations”, p4).

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.

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

Air Filter

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

Ignition System

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

Speed Control Lever

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

Engine-off-Switch

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

Position “I” = operating position
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

The municipal tool carrier is equipped with a safety switch (hand lever B/2).

STOP position

Operating position

Start position

Stop position: Upon release of lever, the ignition system is switched off (engine is off). Caution – engine continues running due to centrifugal mass.

• Start position: For starting the engine and for short breaks, pull the hand clutch lever (B/4) and lock with pawl.

• Operating position: To operate the municipal tool carrier, press safety lever (B/2).

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.

Clutch

The machine is equipped with a single plate dry clutch. Operation is via the hand clutch lever (B/4).

• The machine is decoupled when you pull the hand clutch lever. Now, the engine stops driving the municipal tool carrier.

• The pulled hand clutch lever can be locked with pawl (B/5).

• To avoid clutch slipping away during operation, a clutch play of 3–5 mm is factory-set on the hand lever.

• After the first operating hour, the clutch play has to be checked and, if necessary, re-adjusted (refer to “Maintenance”).

Always park machine with hand clutch lever pulled (pawl locked in place). Otherwise clutch problems may result due to corrosion.
3. Devices and Operating Elements

**Gearbox**

The machine is equipped with a 4-gear reversing transmission. F/R drive is possible in all 4 gears.

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

**F-R Change**

Move shifter (B/9) forward – the municipal tool carrier travels forward. Move shifter backward – the machine travels reverse.

In centre position ("0") the machine is in neutral.

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

**Gear-Change**

Change gears 1 – 2 – 3 – 4 with shifter (B/7).

**There is no neutral position between these gears.**

**PTO**

PTO drive is engaged with shifter (B/11).

Move shifter forward to engage PTO drive, move shifter backward to disengage PTO drive.

**Single-Wheel Steering Brake Clutch**

For easy turning, the municipal tool carrier is equipped with an easy-use steering brake clutch for both wheels. To engage brakes, use hand levers (B/3) and (B/13).

To turn right, pull hand lever (B/13) to decelerate the right drive-wheel. With forward speed engaged, the municipal tool carrier turns right.

To turn left, pull hand lever (B/3) to decelerate the left drive-wheel. With forward speed engaged, the municipal tool carrier turns left.

---

![Diagram of gear and PTO shifter](image)

*When turning on banks, always turn the machine towards the slope.*
3. Devices and Operating Elements

Central Brake (optional)
To slow down or park the machine on hilly ground, use the combined central hand brake.

Central Brake
Clockwise swivel eccentric lever (B/10) backwards – brakes act on both drive-wheels.
Release eccentric lever and the lever swivels back to original position – brake is released.

Hand Brake
Clockwise swivel eccentric lever (B/10) backwards beyond the dead centre. Eccentric lever automatically comes to a stop – both drive-wheels are blocked. To release hand brake, swivel eccentric lever back to original position – brake is released.

Steering Handle Height Adjustment
1. Loosen both lock nuts and hexagonal screws (A) until notches (B) are free.
2. Adjust left and right steering handles to desired height and lock into appropriate notch.
3. Tighten lock nuts and hexagonal screws.

Steering Handle Side Adjustment
Pull up ball handle (B/8) and hold. Swivel steering handle left or right (release ball handle while doing so) until bolt locks into place (check).
Note: There is only one swivel position on the left and right respectively.
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 Fastening Screws”, p.21).

- Fit countersunk spring lock washers between drive-wheel and hub adapter.

The differential effect of hubs for twin tyres is factory-set.

However, you can also fit twin wheels rigidly. For this purpose, proceed as follows:

- Remove snap ring (7) and thrust washer (6).
- Slightly pull out the outer wheel together with wheel flange and twist until driving of wheel flanges between both driving pins of the wheel flange shaft comes to a stop.
- Push wheel fully onto wheel flange shaft and fit snap ring.

Use a grease gun to lubricate wheel flange nipple (with Bio-grease) after every 50 operating hours.

**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.

**Twin-Wheels**

For mowing on extremely steep slopes, we recommend using twin-wheels, wheel centres or strake wheels.

**Differential Hubs with Anti-Wind-on Pipes**

Item No. 5616 511 (without wheels)
3. Devices and Operating Elements

**Wheel Fastening Screws**
For version B, screw short threaded end of double end studs tightly into hub adapter, if possible, glue with LOCTITE 270 or UHU-Plus.

**Strake Wheels**
Item 5417 511 for drive-wheels 4.00-8
Item 5517 521 for drive wheels 5.0-10
- For use of strake wheels, wheel fastening screws version B must be fit.
- Fit drive-wheels, spring-lock washers (between drive-wheel and flange), flanges (3), spring lock washers (under hexagonal nut) and tighten with hexagonal nut.
- Fit strake wheels (5) on hexagonal full dog points and tighten with tommy screws (6).
- Make sure that wheel carriers point to machine, when looked into travel direction (see fig.).

**Extra Wide Drive-Wheels**
Item No. 5490 611: 16 x 6.50 - 8 Terra Grip
Usage: Mowing on soft (boggy) ground.
3. Devices and Operating Elements

**Coupling and Decoupling Implements**

> Mount and dismount attachments only with engine switched off!

**Coupling Attachments:**

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

For PTO-driven attachment, move lever (N/4) on the attachment to position “AUS/OFF”. Coupling sleeve should slightly be greased with Bio-lubrication grease. Remove PTO cap from basic machine.

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

Fold both eye bolts (N/1) over coupling flange. Make sure flanges are properly centred and flat fitted. Tighten cap nuts evenly.

For PTO driven attachment, remove circlip (N/8) from PTO connecting stick (N/6), press stick onto shift lever (N/4) until it locks into place. Insert circlip and secure.

For **decoupling**, proceed in reverse order. Afterwards, lock connecting stick for PTO drive into retaining clamp (N/7).
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.

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.

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

Be careful when dealing with fuel. Great danger of fire! Never refill fuel close to open fire, inflammable sparks or hot engine parts. Do not refill fuel in closed rooms. 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.
4. Commissioning and Operation

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

- fuel tank contains enough fuel;
- engine oil level is between max and min mark on dip-stick (D/3). (Check with machine parked in horizontal position);
- transmission oil level in travelling drive is between min and max marks on oil dip-stick (A/3) (check with machine parked in horizontal position). Lower notch shows minimum oil quantity, upper notch maximum quantity;

⚠️ Only operate municipal tool carrier with all protective devices mounted and adjusted to provide protection.

Careful when starting the engine in closed rooms!

Ensure good ventilation and fast escape of exhaust fumes.

Do not touch the hot engine – danger of burns!

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

Starting Petrol Engine

- Open both fuel taps (C/3 + D/5).

- **Cold engine:** pull CHOKE knob (C/5).
- **Warm engine:** leave CHOKE knob in normal operating position or pull out half way.

- Set ON-OFF switch (B/1) to operating position.

- Set speed control lever (B/12) to 1/3 throttle.

- Pull hand clutch lever (B/4) and lock pawl (B/5).

- Pull starting-rope on handle (C/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.
- Once the engine has started, let it warm up for some time. Slowly push choke back into operating position, if necessary.
4. Commissioning and Operation

Turning off Petrol Engine

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

- Set engine-off-switch to “0”.

- Close both fuel taps.

**Note:** Engine-off-switch (B/1) 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.

**Secure municipal tool carrier against unauthorized use – disconnect spark-plug connector.**
4. Commissioning and Operation

Operations

- Start engine as described in “Starting the Engine”.
- Engage appropriate gear with shifter (B/7).
- Move F/R shifter (B/9) forward (position “forward”).
- For operation with PTO-driven attachments: Move PTO shifter (B/11) forward (in travel direction) – attachment drive is engaged.
- Slightly pull hand clutch lever (B/4), unlock pawl (B/5), slowly release while pressing the throttle.

For direction change from forward to reverse, proceed as follows:
- Set speed control lever to idling position.
- Pull hand clutch lever (B/4) and hold.
- Pull F-R shifter (B/9) backward (reverse is engaged).
- Slowly release hand clutch lever while pressing the throttle.

For direction change from reverse to forward, proceed in reverse order.

Note for Mowing

After mowing or in case of grass clogging
- set F-R shifter to neutral position. The municipal tool carrier comes to a stop but not the knife, thus freeing the cutter bar from grass.
- Set PTO shifter to position “0”.

Starting the Engine on Slopes

If the engine comes to a halt during operation and re-start becomes necessary, proceed as follows:
- Leave mowing drive and travelling drive switched on. The drives act like brakes.
- Engage hand brake (if available).
- Pull hand clutch lever and lock pawl.
- Move safety switch to operating position.
- Re-start engine.

Never leave municipal tool carrier unattended with the engine running.
5. Maintenance

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 and hoeing tines, wear safety gloves.

Engine

Check oil

- each time you take up operation and after 8 operating hours,
- only with engine switched off and municipal tool carrier in horizontal position.
- Clean oil filler screw (D/3) and surrounding parts.
- Remove oil filler screw, clean dip-stick with a clean cloth and dip back into oil tank (do not screw in), take out dip-stick and read oil level.
- In case oil level is below lower mark, refill engine oil (refer to “Specifications”) until oil level reaches rim of oil filler neck.

Changing Engine Oil

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

- Clean drain screw (1) and surrounding parts.
- Loosen drain screw. Collect oil in proper container and dispose of properly.
- Tighten drain screw well (check sealing washer for good condition and exchange, if necessary).
- Fill fresh oil (refer to chapter “Specifications”) until level reaches rim of oil filler neck (2) (Filling mark “max.”).
- Re-tighten oil filler screw.
5. Maintenance

Air Filter

Clean air filter (C/4) after a maximum of 25 operating hours or at least after 3 months (in case of heavy dust occurrence even earlier).

- Clean air filter and outside surrounding parts, take off air filter cap.
- Carefully remove foamed preliminary filter.
- Loosen wing screws, remove paper filter and slightly tap the element on a smooth surface.

Do not use compressed air to blow out dust. Do not treat with oil.

- Wash foamed preliminary filter in detergent and water (do not use petrol), squeeze like a sponge (wrap in a cloth) and dry thoroughly.

Do not soak foamed preliminary filter in oil.

- Reposition paper filter element, fasten with wing screw. Re-attach foamed preliminary filter and close with air filter cap.

Please note:
Do not wash paper filter element (only tap out dust) and replace it after every 50 operating hours or at least once a year.

Spark plug

- To fit in and remove the spark plug (1), slide fuel tank (3) to the left. For this purpose, loosen the 4 fastening nuts on the tank console (long holes) and open approx. 1 turn. Slide fuel tank to the left (air filter side). After maintaining or exchanging the spark plug, slide tank back to original position and tighten fastening nuts.

After every 50 operating hours:

- Remove soot deposits from spark plug electrodes with a steel brush.
- Check and adjust electrode gap to 0.6–0.7 mm.

Exchange spark plug after approx. 100 operating hours.
5. Maintenance

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

Cleaning the Cooling System
After mowing for longer periods of time, clogging of plants and dust may occur in the cooling system. Sustained operation with the cooling system clogged lets the engine heat up and causes damage.
- Always check cooling-air screen (C/7) and remove dirt and plants sucked in.
- Clean fan system after every 100 hours of operation or at least once per year, preferably before the season starts. Take off fan case and clean cooling ribs on both, cylinder and cylinder head, clean guiding plates and cooling-air screen, both serving for good air circulation. For this purpose, contact your professional AGRIA workshop.

Exhaust System
Check exhaust system (D/4) on a regular basis for plant trash and clean, if necessary. Otherwise danger of fire results.
Check each time before you take the municipal tool carrier into operation.

Cleaning Cylinder Head
After every 400 hours of operation take off cylinder head and remove carbon deposits on cylinder, cylinder head, piston crown and valves with a steel brush. Afterwards, clean with soft brush. Renew head gasket and reassemble to cylinder head. Tighten cylinder head screws in turn. Tighten with a torque of 26 Nm. For this purpose, contact your professional AGRIA workshop.

Re-adjusting Valve Lash
After every 400 hours of operation, re-adjust valve lash. Intake and outlet valve are at 0.1mm when the engine is cold. For this purpose, contact your professional AGRIA workshop.
5. Maintenance

Idling Speed

Always ensure that idling engine speed is adjusted correctly. Ensure smooth running of engine by positioning speed control lever to idling position at stop.

To set engine speed, adjust idling speed control screw (2) and idling speed mix control screw (1) in turn. Then adjust throttle control cable free from play with adjusting or locking screw. Do this while the engine is warm. (For idling speed rates refer to “Specifications”).

We recommend to have the necessary adjustments done by your AGRIA workshop.

Governor

For correct functioning of the governor on the engine and for adjustment of upper idle speed ranges the governor spring must be in the appropriate place, see fig.

⚠️ Any changes to the position of the spring cause warranty and type approval to become void.

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

1 Idling speed mix control screw
2 Idling speed control screw
3 Idling speed air jet
5. Maintenance

Engine

Gearbox: Basic Machine
Check oil level in gearbox each time before you take the machine into operation and after every 8 operating hours (oil dip-stick and filling opening (A/3). With the tool carrier parked in horizontal position, the oil level is between the notches “max” and “min”.

- Screw out oil dip-stick, clean with clean cloth and screw back in.
- Take dip-stick out again and read oil level, refill transmission oil, if necessary.

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

- Keep oil filler screw (A/3) and drain screw (A/16) extremely clean as well as surrounding parts to prevent dirt from penetrating into the gearbox.
- Open drain screw, collect old oil in proper container and dispose of properly.
- Check sealing washers and exchange, if necessary.

- Screw in drain screw with sealing washer and tighten.
- Fill in fresh transmission oil, up to level mark “max.”.
- For proper oil quantity and quality, refer to chapter “Specifications”.
- Close filling opening with plug/dip-stick.

Steering Brake Clutch
The steering brake is to a large degree maintenance-free. The bowden cables of the steering brake should be adjusted to a play of approx. 3–5 mm on the hand levers (B/3 and B/13) (refer to “Adjustments”).

Check expansion bellows (A/13) on steering brake bowden cables and exchange, if necessary.

Drive-Wheels

- When commissioning the municipal tool carrier and each time you change wheels, check and tighten wheel screws and nuts after the first 2 operating hours with 100 Nm (10 kpm). Proceed likewise when doing maintenance work.
- Check tyre air pressure regularly. For smooth driving, make sure that there is the same pressure in front and rear tyres respectively.
5. Maintenance

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.

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:
- Loose hexagonal nuts (2).
- Adjust stop buffer (1) by turning it to the above stated play.
- Re-tighten hexagonal nut (lock).

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).
- Mount steering handle.
- Screw on fastening nut (5) until steering handle is without play but can still be swivelled. Secure with pin. Brush some lubrication grease onto gliding faces, if necessary.

1. Stop buffer
2. Lock nut for stop buffer
3. Adjustment nut for steering handle central mounting
4. Lock nut
5. Fastening nut for steering handle
Adjustments on Hand Levers

Check clutch play or clutch adjustment each time you operate the machine. If necessary, re-adjust (especially after commissioning the machine during break-in period, and after exchanging clutch linings and brake pads).

- Remove retaining spring (2) with screwdriver or similar tool.
- Use set pin (4) to press cable end (3) out of bracket in hand lever.
- Adjust the set pin (4) to a play of X. Screw set pin in to reduce play, screw out to increase play.
- Use set pin to place cable end back into bracket and check.
- Fit retaining spring (2).

Hand clutch lever:
X = 3–5 mm (clutch play)

Hand lever for steering brake:
X = 3–5 mm

Safety Circuit

Check safety circuit for proper function each time you maintain the machine.

- With clutch engaged and upon release of safety lever (B/2) the engine must automatically come to a stop.
- Check electric lines and connections for proper condition and exchange, if necessary.

For this purpose, contact your AGRIA workshop.
5. Maintenance

General Maintenance

- Watch out for fuel and oil leakage, repair if necessary.
- Regularly check screws and nuts for tight fit, re-tighten, if necessary.
- Lubricate all gliding and moving parts (e.g. speed control lever, bearings of hand levers) with Bio-lubricating grease or Bio-lubricating oil.

Cleaning

Cutter Bar

After each mowing operation, clean cutter bar thoroughly with water. Above all, remove dirt collected between knife blades. For this purpose, dismount mowing knife. After cleaning, oil or grease all gliding parts with Bio-lubricating oil or Bio-lubricating grease.

Mowing Drive and Machine

After cleaning with air-compressed water jets immediately lubricate rocker arm bearing on mowing drive and lubrication points on the machine and operate mowing drive for a short time to press out penetrated water. Apply grease generously to leave a grease neck around bearing to prevent water, plant sap and dirt from penetrating.

Engine

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

Storage

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

a) Clean thoroughly

Repair paint coat, lubricate machine and mowing drive and operate for a short time. Then spray all shining parts, in particular hoeing tools, with Bio-slushing oil.

b) Engine preservation

- Drain fuel completely or add stabilizer (AGRIA No. 673 50).

Method: Fill fuel tank, add anti-corrosive and stabilizing liquid (amount “ON” stabilizes 4l of fuel). Let engine run for approx. 1 minute. (Observe enclosed instructions).

- Drain engine oil and fill a tea-spoon (approx. 0.03l) of engine oil into spark plug opening. Slowly crank engine. Fill in fresh engine oil.

Slowly crank engine after every 2–3 weeks (spark plug connector disconnected).

Warning! Keep anti-corrosive and stabilizer out of reach of children at all times. Do not inhale vapours! In case of sickness and vomiting see a doctor immediately! In case of eye contact with liquids, rinse eyes thoroughly.

c) Drive-wheels

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

d) Always park municipal tool carrier with hand clutch lever pulled (pawl locked in place). Otherwise, clutch problems may result due to corrosion.

e) Do not park the machine in humid rooms, in rooms where fertilizer is stored, in stables or adjacent rooms because of severe corrosion.

f) 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>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 position “CHOKE”</td>
<td>Set Choke-lever to position “CHOKE”</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>- Engine-off-switch is set to “0”</td>
<td>Set engine-off-switch to “I”</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>- Safety circuit is not set to start position</td>
<td>Set safety circuit to start position</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>- Fuel tank empty or poor fuel</td>
<td>Fill fresh fuel</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>- Fuel line clogged</td>
<td>Clean fuel line</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Defective spark plug</td>
<td>Clean, adjust or exchange spark plug and start at full throttle</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>- Engine too much fuel (“flooded engine”)</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 “BETRIEB”</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>- Loose ignition cable</td>
<td>Firmly connect spark plug connector to spark plug, fix ignition cable retaining device</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Clogged fuel line or poor fuel</td>
<td>Clean fuel line, fill fresh fuel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Vent opening in fuel tank cap clogged</td>
<td>Exchange fuel tank cap</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Water or dirt in fuel system</td>
<td>Drain fuel and fill fresh fuel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter or exchange</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>31</td>
</tr>
<tr>
<td>Excessive temperature in engine</td>
<td>- Low engine oil level</td>
<td>Refill oil immediately</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>- Impaired cooling</td>
<td>Clean cooling fan grid, clean internal cooling ribs</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>31</td>
</tr>
<tr>
<td>Misfirings in engine at high speeds</td>
<td>- Short firing intervals</td>
<td>Adjust spark plug</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>- Incorrect idle mixture</td>
<td>Adjust carburetor</td>
<td>31</td>
</tr>
<tr>
<td>Engine frequently stalls in idle</td>
<td>- Firing interval too long, defective spark plug</td>
<td>Adjust or replace spark plug</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>29</td>
</tr>
</tbody>
</table>
### 6. Troubleshooting

<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>31</td>
</tr>
<tr>
<td></td>
<td></td>
<td></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>34</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine output too low</td>
<td>- Loose cylinder head or damaged sealing</td>
<td>Tighten cylinder head, exchange sealing</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>- poor compression</td>
<td>Have engine checked</td>
<td></td>
</tr>
<tr>
<td></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></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clutch slips</td>
<td>- Hand clutch lever misadjusted</td>
<td>Adjust clutch free play</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>- Worn out clutch</td>
<td>Exchange clutch disc</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>- Loosened screws</td>
<td>Tighten fastening screws</td>
<td>35</td>
</tr>
</tbody>
</table>

* = For this purpose contact your AGRIA workshop.
AGRIA Order No.

**Lubricants and Anti-Corrosive Agents**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Container</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>118 24</td>
<td>Engine oil 10 W-40</td>
<td>tin</td>
<td>1l</td>
</tr>
<tr>
<td>609 25</td>
<td>Transmission oil SAE 90 - API GL 5</td>
<td>bottle</td>
<td>500ml</td>
</tr>
<tr>
<td>718 98</td>
<td>Transmission flow grease, BP Energrease LS-EP00</td>
<td>tube</td>
<td>500ml</td>
</tr>
<tr>
<td>690 34</td>
<td>Bio-Lubrication oil</td>
<td>bottle</td>
<td>500ml</td>
</tr>
<tr>
<td>690 35</td>
<td>Bio-Lubrication grease</td>
<td>cartridge</td>
<td>400g</td>
</tr>
<tr>
<td>608 94</td>
<td>High-Temperature paste LM 508 ASC</td>
<td>tube</td>
<td>100g</td>
</tr>
<tr>
<td>695 73</td>
<td>Special hot bearing grease</td>
<td>tube</td>
<td>45ml</td>
</tr>
<tr>
<td>695 74</td>
<td>Special hot bearing grease</td>
<td>tube</td>
<td>225ml</td>
</tr>
<tr>
<td>604 80</td>
<td>Special purpose grease – water resistant</td>
<td>cartridge</td>
<td>400g</td>
</tr>
<tr>
<td>671 20</td>
<td>Gleitmo paste</td>
<td>tube</td>
<td>50g</td>
</tr>
<tr>
<td>690 36</td>
<td>Bio-slushing oil</td>
<td>bottle</td>
<td>500ml</td>
</tr>
<tr>
<td>673 50</td>
<td>Fuel stabilizer</td>
<td>bottle</td>
<td>125ml</td>
</tr>
</tbody>
</table>

**Glues (for screw fastening), Surface Sealing**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Container</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>559 94</td>
<td>Glue (medium) LOCTITE 242</td>
<td>bottle</td>
<td>50ml</td>
</tr>
<tr>
<td>559 95</td>
<td>Glue (strong) LOCTITE 270</td>
<td>bottle</td>
<td>50ml</td>
</tr>
<tr>
<td>559 96</td>
<td>Glue (ultra strong) LOCTITE 638</td>
<td>bottle</td>
<td>50ml</td>
</tr>
<tr>
<td>509 85</td>
<td>Surface sealing (liquid) LOCTITE 573</td>
<td>tube</td>
<td>50ml</td>
</tr>
<tr>
<td>559 97</td>
<td>Surface sealing (liquid) LOCTITE 573</td>
<td>tube</td>
<td>250ml</td>
</tr>
</tbody>
</table>

**Varnishes**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Container</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>181 03</td>
<td>Spray varnish birch-green</td>
<td>spray tin</td>
<td>400ml</td>
</tr>
<tr>
<td>181 04</td>
<td>Spray varnish blood orange</td>
<td>spray tin</td>
<td>400ml</td>
</tr>
<tr>
<td>509 67</td>
<td>Spray varnish orange</td>
<td>spray tin</td>
<td>400ml</td>
</tr>
<tr>
<td>509 68</td>
<td>Spray varnish black</td>
<td>spray tin</td>
<td>400ml</td>
</tr>
</tbody>
</table>

**Wear Parts**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>707 91</td>
<td>Air filter set (paper element + preliminary filter)</td>
</tr>
<tr>
<td>707 92</td>
<td>Spark plug, Bosch WR7CC</td>
</tr>
<tr>
<td>009 05</td>
<td>Sealing washer 14 x 20 x 1.5 (engine oil drain screw)</td>
</tr>
<tr>
<td>684 16</td>
<td>Sealing washer (engine oil dip-stick)</td>
</tr>
<tr>
<td>009 16</td>
<td>Sealing washer 16 x 22 x 1.5 (transmission housing drain screw/oil dip-stick)</td>
</tr>
<tr>
<td>637 95</td>
<td>Rubber expansion bellows for steering brake clutch</td>
</tr>
<tr>
<td>604 79</td>
<td>Spring balance</td>
</tr>
</tbody>
</table>

**Lists of Spare Parts**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>997 012</td>
<td>Municipal tool carrier 5500</td>
</tr>
<tr>
<td>997 083</td>
<td>Attachments for 3400/5500</td>
</tr>
<tr>
<td>997 077</td>
<td>Robin Engines</td>
</tr>
<tr>
<td>997 062</td>
<td>Cutter Bars</td>
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</tbody>
</table>
**Designation of Parts**

**C**

1. Fuel tank cap
2. Fuel tank
3. Fuel tap
4. Air filter
5. Choke pull-out knob
6. Starter handle
7. Recoil starter/cooling-air screen

**D**

1. Engine no.
2. Engine oil drain screw
3. Engine oil filler screw with oil dip-stick
4. Exhaust with exhaust guard
5. Fuel tap
Electric Circuit

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

bl = blue
br = brown
rt = red
## Inspection and Maintenance Chart

<table>
<thead>
<tr>
<th></th>
<th>S</th>
<th>A</th>
<th>½-1</th>
<th>4</th>
<th>8</th>
<th>25</th>
<th>50</th>
<th>200</th>
<th>400</th>
<th>min. 3months</th>
<th>min. yearly</th>
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<tr>
<td>Clean engine, check screws and nuts</td>
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<td>Check engine oil level, refill, if necessary</td>
<td>1</td>
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<tr>
<td>First engine oil change subsequent oil changes</td>
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<tr>
<td>Check air filter</td>
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<tr>
<td>Clean air filter, foamed preliminary filter</td>
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<tr>
<td>Replace air filter insert, earlier, if required</td>
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<td>Replace fuel hoses</td>
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<td>W *</td>
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<td>Clean cylinder head</td>
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<tr>
<td>Clean cooling-screen guide plates, cooling ribs</td>
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<td>W</td>
<td>F</td>
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<td>Clean carburetor and adjust</td>
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<td>Adjust valve lash</td>
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<td>Clean spark plug, adjust space between electrodes</td>
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<tr>
<td>First transmission oil change, subsequent oil changes</td>
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<td>Tighten wheel screws and nuts</td>
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<td>Check steering handle pendulum stop</td>
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<td>Lubricate steering handle locking bolt</td>
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<td>Lubricate differential hubs of twin-wheels</td>
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<td>Lubricate general lubrication points</td>
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</tr>
</tbody>
</table>

S = Location in lubrication plan  
A = Each time before you take up operation  
B = After each cleaning  
K = Checks and maintenance to be executed by operator  
W = Maintenance to be executed by professional workshop  
* = Maintenance should be carried out by your AGRIA workshop  
F = Maintenance should be carried out by your AGRIA workshop  
* = after 2 years

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### Lubrication Plan

![Lubrication Plan Diagram](image)
EC Conformity Declaration
in accordance with the EC-directive

We, AGRIA-Werke, GmbH
D-74215 Möckmühl/Württ.

herewith declare in sole responsibility that the product
Municipal Tool Carrier, Type 5500 KL
to which this declaration refers, corresponds to the standard
fundamental safety and health requirements as stipulated in
EC-directive 89/392/EEC and EMC-directive 89/336/EEG.

Möckmühl, 10th November 1994  Dieter Zimmermann
Managing Director
AllShredd | Municipal mower | All-purpose machine
---|---|---
Multi-purpose power hoe | One-wheel power hoe | Two-wheel tractor
Lawn mower | Verticuter | Self-propelled ride-on lawn mover

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