Operating Instructions
Translation of the original operating instructions

Two-Wheel Tractor
tagria 3400, 3400 KL

Versions with:
- Differential
- Differential Overdrive
- Steering Brake Clutch
- Petrol Engine EH 34
- Diesel Engine L100

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

Operating Instructions No. 998 436GB-B 06.17
Symbols, Name Plate

Please complete:

<table>
<thead>
<tr>
<th>Machine Type No.: .......................</th>
<th>Symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identification No.: ....................</td>
<td>△ Warning – Danger</td>
</tr>
<tr>
<td></td>
<td>□ Caution</td>
</tr>
<tr>
<td>Engine Type: ..........................</td>
<td>● Important information</td>
</tr>
<tr>
<td>Engine No.: ...........................</td>
<td>![Fuel icon] Fuel</td>
</tr>
<tr>
<td>Date of Purchase: ......................</td>
<td>![Fuel filter icon] Fuel filter</td>
</tr>
</tbody>
</table>

For name plate, refer to
p3/fig. A/17, p7/fig. C/17,
p11/fig. E/17, p15/fig. G/17.

For engine type and number, refer to
p90/fig. J/17,

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
- Assembly hook ring for shifters
- 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

→agria-Service←

= contact your agria-workshop
Designation of Parts:
Petrol Engine / Differential Version

Figure A

Figure B

Overdrive
Designation of Parts:
Petrol Engine / Differential Version

**Figure A**

3 Tool kit
4 Handlebar
5 Clamping lever for height adjustment of steering handle
6 Hitch (floating drawbar)
7 Linch pin
8 Plug
9 Attachment bolts for wings and floating axle stop
10 Transmission oil filling opening and oil dip-stick
11 Eye bolt with cap nut, top
12 PTO
13 Link, PTO engagement
14 Eye bolt with cap nut, bottom
15 Weight mounting device and engine protection base
16 Stand
17 Name plate (on the right, in travel direction)
19 Machine identification no. (on right side, hammered into housing)
20 Oil drain plug, gearbox
21 Hub adapter
22 Attachment bolt
26 Operating hour counter
27 Disc brake
32 Socket (Accessory)

**Figure B:**

1 PTO engagement lever
2 Bar locking lever
3 Engine Shut-off Switch
4 Safety lever
5 Clutch hand lever combined with brake and parking brake
6 Pawl for clutch hand lever and parking brake
7 Forward/Reverse ball handle
   (with steering handle swivelled (front attachment) = Gear-shift ball handle)
8 Gear-shift ball handle
   (with steering handle swivelled (front attachment) = Forward/Reverse ball handle)
9 Speed control lever
10 Differential lock lever
11 Differential lock pawl
14 Lever for service and parking brake (on "Overdrive" version only)
Index

Amount of Delivery ........................... 2

Recommendations
Lubricants ....................................... 6
Maintenance and Repair ...................... 6
Fuel .................................................. 9

Designation of Parts ............ 3, 7, 11, 15, 90, 94

1. Safety Instructions ...... 17–24
Due Use ............................................. 17

2. Specifications
Dimensions ......................................... 25
Machine .............................................. 26
Track Widths .................................. 27, 28
Petrol Engine .................................. 29
Diesel Engine .................................. 30
Operation on Slopes ......................... 29, 30
Vibration Acceleration Value .......... 31
Noise Levels ...................................... 31

3. Devices and Operating Elements
Engine ............................................. 32
Safety circuit .................................. 34
Clutch ............................................ 34, 35
Service and Parking brake ............... 35
Gearbox ......................................... 36
Differential Gear .............................. 37
Steering Brake Clutch ...................... 38
PTO .................................................. 39
Reversing Lock .................................. 39
Loading Belt, Fixing Points .............. 40
Steering Handle ............................... 40 - 42
Drive-Wheels .................................. 43 - 46
Front and Wheel Weights ............... 47
Stand ............................................... 47
Engine Cover .................................. 48
Fuse ................................................. 48
Battery, Electric Starter .................. 49
Mounting and Dismounting Implements ........................................ 50

4. Commissioning and Operation
Commissioning the Machine ............ 52, 53
Starting the Petrol Engine ............... 52
Starting the Diesel Engine ............... 54, 55
Shutting off the Petrol Engine .......... 56
Shutting off the Diesel Engine .......... 57
Operation ......................................... 58
Danger Zone ..................................... 59
References for the Handling .......... 61
Driving with Mounted Trailer ...... 62 - 65

5. Maintenance and Repair
Petrol Engine .................................. 66 - 69
Diesel Engine .................................. 70 - 73
Machine .......................................... 74 - 82
Safety circuit .................................. 78
Adjustments on Levers ................. 78
Graphic Symbols, General Maintenance .............................................. 81
Storage ............................................ 82

6. Troubleshooting...... 83 - 85

7. Decommissioning, disposal .................................. 86
Electrical Wirings ........................... 87 - 89
Varnishes, Wear Parts ........................ 91
Lubrication Chart ............................. 92
Inspection and Maintenance Chart .... 93
Conformity Declaration ............... 95

Figs. C + D, Diesel Engine / Differential Version ...................... 7
Figs. E + F, Petrol Engine / Steering Brake Clutch Vers. ....... 11
Figs. G + H, Diesel Engine / Steering Brake Clutch Vers. ........ 15
Fig. J, Diesel Engine ......................... 90
Fig. K, Petrol Engine ......................... 94

Page dimensions: 595.0x842.0
Two-Wheel Tractor agria 3400; 3400 KL 5
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.

Maintenance and Repair

Major maintenance and repair actions may only be undertaken by trained personnel who are capable of carrying out professional repair and maintenance work.

Minor maintenance and repair work should only be undertaken by yourself if you possess the necessary tools and training for machines and combustion engines.

Only use genuine Agria replacement parts.

Carry out a functional and safety test after completing the work.
Designation of Parts:
Diesel Engine / Differential Version

Figure C

Figure D

Overdrive
Designation of Parts:
Diesel Engine / Differential Version

Figure C:

3 Tool kit
4 Handlebar
5 Clamping lever for height adjustment of steering handle
6 Hitch (floating drawbar)
7 Linch pin
8 Plug
9 Attachment bolts for wings and floating axle stop
10 Transmission oil filling opening and oil dip-stick
11 Eye bolt with cap nut, top
12 PTO
13 Link, PTO engagement
14 Eye bolt with cap nut, bottom
15 Weight mounting device and engine protection base
16 Stand
17 Name plate (on the right, in travel direction)
19 Machine identification no. (on right side, hammered into housing)
20 Oil drain plug, gearbox
21 Hub adapter
22 Attachment bolt for hub adapters
26 Operating hour counter
27 Disc brake
32 Socket
33 Battery (on E-Start version only)
34 Start switch (on E-Start version only)
35 Battery charge control beeper (on E-Start version only)

Figure D:

1 PTO engagement lever
2 Bar locking lever
4 Safety lever
5 Clutch hand lever combined with brake and parking brake
6 Pawl for clutch hand lever and parking brake
7 Forward/Reverse ball handle
   (with steering handle swivelled (front attachment) = Gear-shift ball handle)
8 Gear-shift ball handle
   (with steering handle swivelled (front attachment) = Forward/Reverse ball handle)
9 Speed control lever
10 Differential lock lever
11 Differential lock pawl
14 Lever for service and parking brake (on "Overdrive" version only)
Fuel Recommendations

Petrol Engine
Robin EH 34 D
This engine runs perfectly using commercially available lead-free Normal and Super petrol (also E10) as well as Super plus.
Do not add oil to petrol.
If, for environmental reasons, you use unleaded petrol, make sure the fuel is drained completely when shutting down the engine for more than 30 days. This is to prevent resin residue from depositing in the carburetor, fuel filter, and tank. Or add a fuel stabilizer.
For further instructions refer to “Engine Preservation”.

Diesel Engine
Yanmar L100 AE
This diesel engine runs on conventional diesel fuel of a min. cetane rating of 45.
Do not use diesel fuel oil substitutes, they may be harmful to the fuel system.
Fuel should be free of water or dust.
Winter operation:
To ensure reliable winter operation use “winter diesel fuel”, to be purchased at filling stations.
Designation of Parts:
Petrol Engine / Steering Brake Clutch Version

Figure E

Figure F
Designation of Parts:
Petrol Engine / Steering Brake Clutch Version

Figure E
3 Tool kit
4 Handlebar
5 Clamping lever for height adjustment of steering handle
6 Hitch (floating drawbar)
7 Linch pin
8 Plug
9 Attachment bolts for wings and floating axle stop
10 Transmission oil filling opening and oil dip-stick
11 Eye bolt with cap nut, top
12 PTO
13 Link, PTO engagement
14 Eye bolt with cap nut, bottom
15 Weight mounting device and engine protection base
16 Stand
17 Name plate (on the right, in travel direction)
19 Machine identification no. (on right side, hammered into housing)
20 Oil drain plug, gearbox
23 Hex nut on hub
24 Steering brake clutch
26 Operating hour counter
32 Socket (Accessory)

Figure F:
1 PTO engagement lever
2 Spar locking lever
3 Engine Shut-off Switch
4 Safety lever
5 Clutch hand lever
6 Pawl for clutch hand lever
7 Forward/Reverse ball handle
(with steering handle swivelled (front attachment) = Gear-shift ball handle)
8 Gear-shift ball handle
(with steering handle swivelled (front attachment) = Forward/Reverse ball handle)
9 Speed control lever
2 Steering brake clutch lever, left
13 Steering brake clutch lever, right
14 Lever for service and parking brake
Designation of Parts:
Diesel Engine / Steering Brake Clutch Version

Fig. G

Fig. H

Two-Wheel Tractor agria 3400; 3400 KL
### Designation of Parts:
**Diesel Engine / Steering Brake Clutch Version**

**Fig. G:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Tool kit</td>
</tr>
<tr>
<td>4</td>
<td>Handlebar</td>
</tr>
<tr>
<td>5</td>
<td>Clamping lever for height adjustment of steering handle</td>
</tr>
<tr>
<td>6</td>
<td>Hitch (floating drawbar)</td>
</tr>
<tr>
<td>7</td>
<td>Linch pin</td>
</tr>
<tr>
<td>8</td>
<td>Plug</td>
</tr>
<tr>
<td>9</td>
<td>Transmission oil filling opening and oil dip-stick</td>
</tr>
<tr>
<td>10</td>
<td>Attachment bolts for wings and floating axle stop</td>
</tr>
<tr>
<td>11</td>
<td>Eye bolt with cap nut, top</td>
</tr>
<tr>
<td>12</td>
<td>PTO</td>
</tr>
<tr>
<td>13</td>
<td>Link, PTO engagement</td>
</tr>
<tr>
<td>14</td>
<td>Eye bolt with cap nut, bottom</td>
</tr>
<tr>
<td>15</td>
<td>Weight mounting device and engine protection base</td>
</tr>
<tr>
<td>16</td>
<td>Stand</td>
</tr>
<tr>
<td>17</td>
<td>Name plate (on the right, in travel direction)</td>
</tr>
<tr>
<td>19</td>
<td>Machine identification no. (on right side, hammered into housing)</td>
</tr>
<tr>
<td>20</td>
<td>Oil drain plug, gearbox</td>
</tr>
<tr>
<td>23</td>
<td>Hex nut on hub</td>
</tr>
<tr>
<td>24</td>
<td>Steering brake clutch</td>
</tr>
<tr>
<td>26</td>
<td>Operating hour counter</td>
</tr>
<tr>
<td>30</td>
<td>Relay (E-Start version)</td>
</tr>
<tr>
<td>31</td>
<td>Fuse, relay under the cover (Recoil starter version)</td>
</tr>
<tr>
<td>32</td>
<td>Socket</td>
</tr>
<tr>
<td>33</td>
<td>Battery (on E-Start version only)</td>
</tr>
<tr>
<td>34</td>
<td>Start switch (on E-Start version only)</td>
</tr>
<tr>
<td>35</td>
<td>Battery charge control beeper (on E-Start version only)</td>
</tr>
</tbody>
</table>

**Fig. H:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PTO engagement lever</td>
</tr>
<tr>
<td>2</td>
<td>Spar locking lever</td>
</tr>
<tr>
<td>4</td>
<td>Safety lever</td>
</tr>
<tr>
<td>5</td>
<td>Clutch hand lever</td>
</tr>
<tr>
<td>6</td>
<td>Pawl for clutch hand lever</td>
</tr>
<tr>
<td>7</td>
<td>Forward/Reverse ball handle</td>
</tr>
<tr>
<td></td>
<td>(with steering handle swivelled (front attachment) = Gear-shift ball handle)</td>
</tr>
<tr>
<td>8</td>
<td>Gear-shift ball handle</td>
</tr>
<tr>
<td></td>
<td>(with steering handle swivelled (front attachment) = Forward/Reverse ball handle)</td>
</tr>
<tr>
<td>9</td>
<td>Speed control lever</td>
</tr>
<tr>
<td>2</td>
<td>Steering brake clutch lever, left</td>
</tr>
<tr>
<td>13</td>
<td>Steering brake clutch lever, right</td>
</tr>
<tr>
<td>14</td>
<td>Lever for service and parking brake</td>
</tr>
</tbody>
</table>

---

16 Two-Wheel Tractor *agria* 3400; 3400 KL
1. Safety Instructions

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

**Warning**

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

**Due Use**

The machine meets both the current state of the art and the safety regulations applicable at the time of its placing on the market within the terms of its proper use.

In terms of design it was not possible to eliminate either the foreseeable misuse or the remaining risk without limiting the functionality in accordance with the regulations.

The two-wheel tractor **agria 3400** is a hand-controlled automatic single-axle machine which can drive and/ or pull the approved implement in accordance with the Agria sales list (due use).

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

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

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

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

The machine is intended for commercial and personal use.

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

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

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

**Reasonably predictable misuse**

Foreseeable misuse and improper handling include inter alia:

- removal or manipulation of the protective and safety equipment
- use on slopes with engine types with central steering brakes (KL)
- the use of non-approved attachments
- not keeping to service intervals
- a lack of measurement and testing for the early recognition of damage
- a lack of replacement of worn parts
- incorrectly or poorly carried out maintenance and repair work
- use not according to the intended purpose
1. Safety Instructions

- working with defective electrical or mechanical equipment
- transport and manoeuvring movements with implements switched on.

**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 current traffic code applies.

Accordingly, check the two-wheel tractor for road and operational safety each time you take up operation.

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

Teenagers of 16 years or younger may not operate the two-wheel tractor!

Only work in good light and visibility.

Operator's clothes should fit tight. Wear safety shoes.

Note the warning and instruction signs on the tractor for safe operation. Compliance is for your own safety.

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

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.

Implements and their weight affect the driving, steering, braking, and tip-over characteristics of the tractor. 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 Danger Zone**

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

Staying in the danger zone is not permitted.

Check the the working area before you start. 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.
1. Safety Instructions

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 PTO protection cap.

Suitable shoes must be worn depending on the type of ground surface (vegetation, humidity ...), so that the operator does not slip or fall.

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 two-wheel tractor 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 tractor is at work.

Never adjust the operating handles during work – danger!

During operation do not leave the operator’s position at the steering handle, especially not when you turn the machine.

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

In the event of any clogging to the work equipment or add-on device, the engine must be stopped and the work equipment or add-on device must be cleaned with appropriate tools. There may be tension in the drive train as a result of the blockage, which is why you should resolve the blockage carefully.

In case of damage to the two-wheel tractor or to the implement, immediately shut off the engine and have it repaired.

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

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

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

End of Operation

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

Before you leave the two-wheel tractor, shut off the engine. Then close the fuel tap(s) (if present).

Secure two-wheel tractor against unauthorized use. If tractor is equipped with ignition key, remove the key. For all other versions, remove spark plug connector.
1. Safety Instructions

**Implements**

Only mount implements with the engine and PTO shut off.

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

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

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

Secure two-wheel tractor and implements against rolling off (parking brake, wheel chocks).

Always switch off the working elements when transporting or moving to neighbouring areas.

Beware of injuries while coupling implements.

Hitch implements as specified and only couple at specified points.

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

**Hoeing Attachment**

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.

Adjust protective cover of hoeing attachment so that only those parts of tools which penetrate the soil are not covered.

When hoeing, make sure depth bar is adjusted properly.

**Mowing Implement**

Handle with care! Sharp blades of the cutter bar may cause injuries! Always therefore wear protective gloves when working on cutter blades.

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

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

**Trailer**

Trailer is allowed only with type 3400, it is not allowed with type 3400 KL.

The use of the two-wheel tractor with a trailer on public roads requires an operating licence for the two-wheel tractor and for the trailer with the appropriate equipment.

Make sure to not exceed permissible tongue load of trailer hitch, floating drawbar or hitch.

When coupling the drawbar, make sure manoeuvrability at coupling point is sufficient.

Do not exceed gross axle weight rating, towing capacity and gross weights.

Before driving, check brake function and rear lighting for proper operation.

Regularly check brake systems closely.

Have adjustments and repairs on the brake system carried out by a professional workshop or an authorized brake service station only.
1. Safety Instructions

When driving with mounted trailer, do not use single-wheel braking.

On tractors equipped with single-wheel transmission do not engage single-wheel transmission. Single-wheel transmission must be locked!

For tractors equipped with differential lock; do not use differential lock when driving in curves.

Only one passenger may ride on the trailer, provided a safe passenger seat is available.

No additional passengers may be carried.

When driving downhill, shift into lower gears in time. On slopes never de-clutch to change gears.

Weights

Fit weights properly and at specified points.

Maintenance

Only trained specialist personnel who are able to perform professional maintenance and repair work may carry out this work.

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

When working on the engine always remove the ignition key (if present) and also the spark plug connector in the case of petrol engines.

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. steering handle, hitch etc.)!

Keep two-wheel tractor and implement clean to avoid risk of fire.

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

Ensure that you re-install all safety and protective devices and adjust them properly after maintenance and cleaning.

Only use original Agria spare parts.

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

Storage

It is not allowed to store the two-wheel tractor in rooms with open heating.

Never park the two-wheel tractor in closed rooms with fuel left in tank. Fuel vapours are hazardous.

Engine, Fuel, and Oil

Never let the engine run in closed rooms. Extreme danger of intoxication! For the same reason, also replace damaged exhaust 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.
1. Safety Instructions

Be careful when dealing with fuel. Great danger of fire! Never handle fuel near open flames, ignitable sparks or hot engine parts.

Do not refill fuel in closed rooms. Do not smoke when refilling!

Refill only with the engine shut off and cooled down.

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

In case of fuel-spillage, pull the two-wheel tractor 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 replace fuel tank caps and other tank caps if damaged.

Only discharge fuel in the open and into suitable containers.

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 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.

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

Be careful when draining hot oil, danger of burns.

Make sure oil used is of specified quality. Storage is in approved cans only.

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

Tyres and Tyre Air Pressure

When working on tyres, make sure two-wheel tractor 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 for operation with implements.

Re-tighten attachment bolts of drive-wheels or check tightness when doing maintenance work.
1. Safety Instructions

Electrical System and Battery

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

When working on the electrical system, make sure the battery is disconnected (negative pole) (for tractors equipped with battery).

Make sure to connect battery properly – first connect positive pole and then negative pole. Disconnect in reverse order.

Be careful with battery gases – explosive!

Avoid spark discharge and open flames near batteries.

Remove plastic cover (if included) to recharge battery to prevent highly explosive gases from building up.

Careful when handling battery acid!

Only use specified circuit breakers. Strong circuit breakers will destroy the electrical system – danger of fire.

Always cover positive pole with specified cover or terminal cap.
1. Safety Instructions

**Explanation of Warning Signs**

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

Before any cleaning, maintenance, and repair work shut off the engine and pull ignition key.

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 tractor.

**Signs**

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

Wear protective gloves.

Wear safety shoes.
2. Specifications

Two-Wheel Tractor

Dimensions:

Tyre air pressure at:
- 4.00-8; 5.00-10; 5.00-12 .......... 1.5 bar
- 21x11.00-8; 20x8.00-10 ........ 0.8 bar

2490 041 .................. 4.00-8 Field tyre
0190 112 .................. 5.00-10 Field tyre
3490 411 .................. 5.00-12 Field tyre
3490 511 ........ 20x8.00-10 Grass tyre
3490 611 ........ 21x11.00-8 Terra Grip

For mounting drive-wheel and use refer to p43–46.

<table>
<thead>
<tr>
<th>Tyre</th>
<th></th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
<th>g</th>
<th>h</th>
<th>l</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.00-8 AS</td>
<td>Diesel</td>
<td>640</td>
<td>635</td>
<td>271</td>
<td>543</td>
<td>270</td>
<td>55</td>
<td>167</td>
<td>900-1200</td>
<td>1780</td>
</tr>
<tr>
<td>5.00-10 AS</td>
<td>Diesel</td>
<td>640</td>
<td>635</td>
<td>303</td>
<td>575</td>
<td>270</td>
<td>55</td>
<td>195</td>
<td>900-1200</td>
<td>1780</td>
</tr>
<tr>
<td>20x8.00-10</td>
<td>Diesel</td>
<td>640</td>
<td>635</td>
<td>303</td>
<td>575</td>
<td>270</td>
<td>55</td>
<td>195</td>
<td>900-1200</td>
<td>1780</td>
</tr>
<tr>
<td>5.00-12 AS</td>
<td>Diesel</td>
<td>640</td>
<td>635</td>
<td>323</td>
<td>595</td>
<td>270</td>
<td>55</td>
<td>215</td>
<td>900-1200</td>
<td>1780</td>
</tr>
<tr>
<td>21x11.00-8</td>
<td>Diesel</td>
<td>640</td>
<td>635</td>
<td>303</td>
<td>575</td>
<td>270</td>
<td>55</td>
<td>195</td>
<td>900-1200</td>
<td>1780</td>
</tr>
<tr>
<td>4.00-8 AS</td>
<td>Petrol</td>
<td>610</td>
<td>635</td>
<td>271</td>
<td>543</td>
<td>270</td>
<td>55</td>
<td>167</td>
<td>900-1200</td>
<td>1750</td>
</tr>
<tr>
<td>5.00-10 AS</td>
<td>Petrol</td>
<td>610</td>
<td>635</td>
<td>303</td>
<td>575</td>
<td>270</td>
<td>55</td>
<td>195</td>
<td>900-1200</td>
<td>1750</td>
</tr>
<tr>
<td>20x8.00-10</td>
<td>Petrol</td>
<td>610</td>
<td>635</td>
<td>303</td>
<td>575</td>
<td>270</td>
<td>55</td>
<td>195</td>
<td>900-1200</td>
<td>1750</td>
</tr>
<tr>
<td>5.00-12 AS</td>
<td>Petrol</td>
<td>610</td>
<td>635</td>
<td>323</td>
<td>595</td>
<td>270</td>
<td>55</td>
<td>215</td>
<td>900-1200</td>
<td>1750</td>
</tr>
<tr>
<td>21x11.00-8</td>
<td>Petrol</td>
<td>610</td>
<td>635</td>
<td>303</td>
<td>575</td>
<td>270</td>
<td>55</td>
<td>195</td>
<td>900-1200</td>
<td>1750</td>
</tr>
</tbody>
</table>

Tyre: (Accessory) .........................

23221 051 Pair of wheel weights . 52 kg
for the steering brake clutch version
additional customised wheel bolts are
required ......................... parts kit 760 33

S = refer to track widths table
2. Specifications

**Clutch:** ......................... Dry disc clutch

**Gearbox:** ............ Mechanical gearbox, 
4 forward and 4 reverse gears, 
depending on version: 
- lockable differential ...................... 
  with brake 
- single-wheel steering brake clutch .... 
  with parking brake 

**Engine oil:** .........................
Drive gearbox: SAE 90 - API-GL5 . 2.0 l 
................................. (e.g. BP Energear Hypo)

**Travel Speeds [km/h]:**
For steering handle setting of "single-axle 
cultivator" in reverse only gears 1 - 3

<table>
<thead>
<tr>
<th></th>
<th>1.</th>
<th>2.</th>
<th>3.</th>
<th>4.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.00-8 AS</td>
<td>0.85</td>
<td>1.6</td>
<td>2.7</td>
<td>6.1 / 14.5*</td>
</tr>
<tr>
<td>5.00-10 AS</td>
<td>1.0</td>
<td>1.9</td>
<td>3.2</td>
<td>7.1 / 16.9*</td>
</tr>
<tr>
<td>5.00-12 AS</td>
<td>1.2</td>
<td>2.2</td>
<td>3.6</td>
<td>8.0 / 19.5*</td>
</tr>
<tr>
<td>20x8.00-10 R</td>
<td>1.0</td>
<td>1.9</td>
<td>3.2</td>
<td>7.1 / 16.9*</td>
</tr>
<tr>
<td>21x11.00-8 T</td>
<td>1.2</td>
<td>2.2</td>
<td>3.6</td>
<td>8.0 / 19.5*</td>
</tr>
</tbody>
</table>

* 14.5 / 16.9 / 19.5 km/h 
= for gearbox „Overdrive“ version

**PTO:** ............................... 825 rpm 
  gear independent 
  at 3600 engine rpm 
  direction of rotation: 
  clockwise, looking on PTO, 
  constant in forward and reverse

**Steering handle:** ..... height adjustable 
  side adjustable without tools, 
  swivels 180° 
  for mounting front implements

**Vibration acceleration value:**
on handlebar grip:
Petrol engine EH 34 D ... $a_{hw} < 2.5 \text{ m/s}^2$
Diesel engine L100AE . $a_{hw} = 6.2\text{ m/s}^2$in accordance with EN 709 and EN 1033
For values with implements refer to p31

**Weights:**
Empty weight: without drive-wheels 5.00-10

**Differential versions:**
Petrol engine
EH 34 D 109 kg 125 kg
Diesel engine L100 (Recoil starter) 125 kg 141 kg
Diesel engine L100 (Electric starter) 135 kg 151 kg

**Steering brake clutch versions:**
Petrol engine
EH 34 D 139 kg 155 kg
Diesel engine L100 (Recoil starter) 157 kg 173 kg
Diesel engine L100 (Electric starter) 167 kg 183 kg

**Permissible total weight .......... 250 kg**

**Permissible tongue load**
on coupling point: ...................... 85 kg

**Permissible towing capacity,**
trailer with brake: .................... 650 kg

**Hitch:**
SK14 Approval Sign ™ M3280
Wheel combination and Track Widths Table
3400 Diff.

Two-Wheel Tractor agria 3400; 3400 KL

| B | A | S | i | A | S | i | A | S | i | A | S | i | A | S | i | A | S | i |
| 1 | 4.00-8 AS | 460 | 360 | 260 | 570 | 470 | 370 | 550 | 450 | 350 | 660 | 560 | 460 | 670 | 570 | 470 | 780 | 680 | 580 | 730 | 630 | 530 | 840 | 740 | 640 |
| 2 | 16x6.50-8 AS | 700 | 530 | 360 | 570 | 400 | 230 | 790 | 620 | 450 | 690 | 520 | 350 | 910 | 740 | 570 | 750 | 580 | 410 | 970 | 800 | 630 |
| 3 | 21x11.00-8 Terra | 810 | 535 | 260 | 660 | 585 | 310 | 930 | 655 | 380 | 920 | 645 | 370 | 990 | 715 | 440 |
| 4 | 4.50-10 AS | 460 | 340 | 220 | 610 | 490 | 370 | 550 | 430 | 310 | 700 | 580 | 460 | 670 | 550 | 430 | 820 | 700 | 580 | 730 | 610 | 490 | 880 | 760 | 640 |
| 5 | 5.00-10 AS | 470 | 340 | 210 | 620 | 490 | 360 | 560 | 430 | 300 | 710 | 580 | 450 | 680 | 550 | 420 | 830 | 700 | 570 | 740 | 610 | 480 | 890 | 760 | 630 |
| 6 | 20x8.00-10 R | 650 | 460 | 270 | 650 | 460 | 270 | 740 | 550 | 360 | 770 | 580 | 390 | 860 | 670 | 480 | 830 | 640 | 450 | 920 | 730 | 540 |
| 7 | 5.00-12 AS | 660 | 505 | 350 | 570 | 415 | 260 | 750 | 595 | 440 | 690 | 535 | 380 | 870 | 715 | 560 | 750 | 595 | 440 | 930 | 770 | 620 |
| 8 | 23x8.50-12 AS | 740 | 525 | 310 | 830 | 615 | 400 | 730 | 515 | 300 | 950 | 735 | 520 | 790 | 575 | 360 | 1010 | 765 | 580 |

2. Specifications

| (mm) | 220 | 220A | 220B | 220 +B1 | V | V +B7 | V +60 | Gf | Gf +S +90 | G +V | G +V +90 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B | A | A | S | i | A | A | i | A | i | A | i | A | i |
| 1 | 4.00-8 AS | 1110 | 460 | 1090 | 460 |
| 2 | 16x6.50-8 AS | 1240 | 1130 | 1154 | 460 | 1154 | 460 |
| 3 | 21x11.00-8 Terra | 1260 | 260 | 1540 | 440 | 1444 | 440 | 1444 | 440 |
| 4 | 4.50-10 AS | 1150 | 460 | 940 | 460 | 940 | 460 | 1610 | 450 |
| 5 | 5.00-10 AS | 1160 | 450 | 930 | 450 | 930 | 450 |
| 6 | 20x8.00-10 R | 1190 | 360 | 1120 | 360 | 1120 | 360 |
| 7 | 5.00-12 AS | 1200 | 440 | 1060 | 440 | 1204 | 440 |
| 8 | 23x8.50-12 AS | 1280 | 1200 | 400 | 1260 | 1140 | 400 | 1284 | 400 |
| 9 | 23x8.50-12 AS | 1200 | 270 | 1370 | 1130 | 270 | 270 |

220 = 5161 011
60 = 5516 021
90 = 5519 031
220 = 5616 511
220A = 5519 011
V = 5916 211
S = 762 32
Gf (10") = 5817 511
G (10") = 5917 011
G (12") = 5917 021
Wheel combination and Track Widths Table
3400 KL

2. Specifications
Steering Brake Clutch Version

Two-Wheel Tractor agría 3400, 3400 KL

<table>
<thead>
<tr>
<th>B</th>
<th>(mm)</th>
<th>60</th>
<th>60</th>
<th>90</th>
<th>90</th>
<th>220</th>
<th>220</th>
<th>220</th>
<th>220</th>
<th>Gf</th>
<th>Gf + S +90</th>
<th>G + V</th>
<th>G + V +90</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.00-8 AS</td>
<td>630</td>
<td>530</td>
<td>430</td>
<td>640</td>
<td>540</td>
<td>440</td>
<td>750</td>
<td>650</td>
<td>550</td>
<td>700</td>
<td>600</td>
<td>500</td>
<td>810</td>
</tr>
<tr>
<td>16x6.50-8 AS</td>
<td>760</td>
<td>590</td>
<td>420</td>
<td>880</td>
<td>710</td>
<td>540</td>
<td>720</td>
<td>550</td>
<td>380</td>
<td>940</td>
<td>770</td>
<td>600</td>
<td>1200</td>
</tr>
<tr>
<td>21x11.00-8 Terra</td>
<td>670</td>
<td>550</td>
<td>430</td>
<td>640</td>
<td>520</td>
<td>400</td>
<td>790</td>
<td>670</td>
<td>550</td>
<td>700</td>
<td>580</td>
<td>460</td>
<td>850</td>
</tr>
<tr>
<td>4.50-10 AS</td>
<td>680</td>
<td>550</td>
<td>420</td>
<td>650</td>
<td>520</td>
<td>390</td>
<td>800</td>
<td>670</td>
<td>540</td>
<td>710</td>
<td>580</td>
<td>450</td>
<td>860</td>
</tr>
<tr>
<td>5.00-10 AS</td>
<td>720</td>
<td>565</td>
<td>410</td>
<td>840</td>
<td>685</td>
<td>530</td>
<td>720</td>
<td>565</td>
<td>410</td>
<td>900</td>
<td>745</td>
<td>590</td>
<td>1160</td>
</tr>
<tr>
<td>23x8.50-12 AS</td>
<td>800</td>
<td>585</td>
<td>370</td>
<td>920</td>
<td>705</td>
<td>490</td>
<td>980</td>
<td>765</td>
<td>550</td>
<td>1240</td>
<td>1170</td>
<td>370</td>
<td>1284</td>
</tr>
</tbody>
</table>

30 = 2516 011
60 = 5516 021
90 = 5519 031
220 = 5616 511
220A = 5519 011
S = 762 32
G (10") = 5917 011
V = 5916 211
G (12") = 5917 021
2. Specifications:

Petrol Engine

Manufacturer: .................. Robin
Type: .......................... EH 34 D
Version: ...................... Fan-cooled
1-cylinder-4-stroke engine (petrol) OHV
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
Spark plug gap ............. 0.6–0.7 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 mm
Outlet: ......................... 0.10 mm

Generator: .......... alternating current
12V 150W

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

Fuel: commercially available car petrol,
octane number see engine operating instructions
Fuel tank capacity: .......... approx. 8 l
Fuel consumption: .......... 310 g/kWh

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

Carburetor: ............... Horizontal float carburetor
Main jet: .................... 97.5
Idle jet: ..................... 40

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

Rated speed: .................. 3600 rpm
Top no-load speed: .......... 4000 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:
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 45° inclination (100%)
2. Specifications:

### Diesel Engine

**Manufacturer:** ................. Yanmar

**Type:**   
Electric starter version .......... L100N  
Recoil starter version .......... L100N

**Version:** ........................ Fan-air-cooled  
1-cylinder-4-stroke diesel engine

**Bore:** ........................................ 86 mm

**Stroke:** ..................................... 70 mm

**Cubic capacity:** .......................... 406 ccm

**Output:** ............ 7.4 kW at 3600 rpm

**Max torque:** ........ 27 Nm at 1700 rpm

**Injection pressure:** .............. 200 bar

**Valve lash** (engine cold)  
Intake: ........................ 0.15 ± 0.02 mm  
Outlet: ........................ 0.15 ± 0.02 mm

**Generator:** .......... alternating current  
............................................. 12V 90W

**Glass fuse** ............ 20A (30x6,5 mm)  
.......................... (for electric starter version)

**Starter:** ........ Recoil or electric starter,  
depending on version

**Battery:** ........................ 12V 20Ah  
.......................... (for electric starter version)

**Fuel:** ...... commercially available diesel  
fuel,  
cetane rating  
see engine operating instructions

**Fuel filter:**  
Coarse-mesh strainer ...... in filler neck  
Fine-mesh strainer ............. in fuel tank drain hole

**Fuel tank capacity:** ........ approx. 5.5 l

**Fuel consumption:** ........ 280 g/kWh

**Air filter:** .......... Dry filter element with  
foamed preliminary filter  
and cyclone pre-separator

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

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

**Idling speed:** ..................... 1250 rpm

**Lubrication:** ...... Pressure lubrication  
via gear pump  
Full flow oil filter

**Engine oil:**  
Filling quantity ................ approx. 1.65 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 5W-20 API-SC (or higher)

**Noise level:**  
Noise level  
at operator’s ear .................... 88 dB(A)  
(in accordance with EN 709 and EN 1553)

Acoustic power level: .......... 99 dB(A)  
in accordance with EC 84/538/EEC at  
85% of engine rated speed

For values with implements refer to p31

**Operability on Slopes:**  
Engine is suited for use on slopes  
(oil level at “max” = upper mark)  
Continuous operation possible  
up to ...................... 20° inclination (37 %)
### Noise level and Vibration acceleration value

<table>
<thead>
<tr>
<th>Engine version</th>
<th>Robin EH 34</th>
<th>Yanmar L100N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise level:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noise level (in general accordance with DIN EN 12733: 2001) at the operator's ear with:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hoeing equipment 70 cm</td>
<td>$L_{PA} = 86,\text{dB}$</td>
<td>$88,\text{dB}$</td>
</tr>
<tr>
<td>Front mounted power harrow 90 cm</td>
<td>$L_{PA} = 87,\text{dB}$</td>
<td>$89,\text{dB}$</td>
</tr>
<tr>
<td>Safety Mulcher 85 cm</td>
<td>$L_{PA} = 86,8,\text{dB}$</td>
<td>$96,\text{dB}$</td>
</tr>
<tr>
<td>Acoustic power level to guideline 2000/14/EG, appendix III, part B, chapter 32 lawn mower with:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hoeing equipment 70 cm</td>
<td>$L_{WA} = 98,\text{dB}$</td>
<td>$100,\text{dB}$</td>
</tr>
<tr>
<td>Front mounted power harrow 90 cm</td>
<td>$L_{WA} = 99,\text{dB}$</td>
<td>$101,\text{dB}$</td>
</tr>
<tr>
<td>Safety Mulcher 85 cm</td>
<td>$L_{WA} = 107,\text{dB}$</td>
<td>$108,\text{dB}$</td>
</tr>
<tr>
<td>Vibration acceleration value:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to guideline 2002/44/EG and EN 709: 1997 + A4: 2003 at the handlebar with:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hoeing equipment 70 cm</td>
<td>$a_{hwa} = 3,8,\text{m/s}^2$</td>
<td>$4,7,\text{m/s}^2$</td>
</tr>
<tr>
<td>Front mounted power harrow 90 cm</td>
<td>$a_{hwa} = 4,3,\text{m/s}^2$</td>
<td>$5,2,\text{m/s}^2$</td>
</tr>
<tr>
<td>Safety Mulcher 85 cm</td>
<td>$a_{hwa} = 4,7,\text{m/s}^2$</td>
<td>$5,6,\text{m/s}^2$</td>
</tr>
</tbody>
</table>
The two-wheel tractor agria 3400 and 3400 KL is a basic motorised unit and is always used with an implement. Therefore it is most suitable for normal use in landscape gardening and in agriculture and forestry work for such as turning over the ground, mowing grass and meadowland, snow clearing and sweeping.

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

The implements approved in the Agria sales list are available for use.

Engine

- The **four-stroke petrol engine** runs on commercial petrol (refer to fuel recommendations p9).

Ignition System

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

- The **four-stroke diesel engine** runs on commercial diesel fuel (refer to fuel recommendations p9). See to using proper fuel in winter.

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 fins of cylinder clean and free from sucked-in plant trash.

Idling Speed

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

Air Filter

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

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

**Speed Control Lever**

**Petrol Engine Version**

The speed control lever (B/9, F9) on the steering handle is for stepless setting of engine speed from min. = idle to max. = full throttle.

**Engine Shut-off Switch**

**Petrol Engine Version**

On pressing the electric shut-off switch (B/3, F/3), the ignition is turned on or off.

"I" = Operation position

"O" = Engine off position

In a dangerous situation, set the engine shut-off switch to „O“ to switch off the engine.

**Speed Control Lever, Engine Shut-off Switch**

**Diesel Engine Version**

The speed control lever (D/9, H/9) on the steering handle is for stepless setting of engine speed from min. = idle to max. = full throttle. The lever also is for shutting the engine off.

In a dangerous situation, set the speed control lever to „STOP“ to switch off the engine.
3. Devices and Operating Elements

Safety circuit

The two-wheel tractor is fitted with a safety circuit.

1. **Stop setting:** When releasing the safety circuit lever (4), the engine is shut off.

   Beware – engine keeps running due to centrifugal mass.

2. **Start position:** For starting the engine and for short breaks, pull the clutch lever (5) and fasten with pawl (6).

3. **Operating position:** To operate the machine press safety circuit lever (4).

   **Do not manipulate the safety circuit and do not tie down the safety lever!**

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

Clutch

The single disc dry clutch is operated via the clutch lever (5).

Clutch lever positions:

- "O" clutch is disengaged (lever pulled in), i.e. the engine is no longer driving the machine;
- "I" clutch is engaged, i.e. the engine is driving the machine.

Pay attention to the play in the clutch so that the clutch does not slip during use.

When the clutch is engaged ("I") the clutch lever must be adjacent to the lever bearing so that the safety circuit can work.

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

**Clutch with Brake**

3400 Differential Version (not Overdrive Version)

The brake serves to stop on slopes or during shifting.

The clutch and the brake are operated via the clutch hand lever (5).

- When the clutch lever is pulled half-way up to the setting "O" the clutch is disengaged i.e. the engine is no longer driving the machine.
- The brake is operated by further pulling the hand lever upwards.
- The lever is at the setting (○) with the pawl (6) available for locking = parking brake (P).

**Service and Parking Brake**

3400 KL Version and Differential with Overdrive Version

This model has no brake combination with the clutch lever, but has instead a combined service and parking brake which is operated using the eccentric lever (B/14; D/14).

**Service Brake**

Swivel the eccentric lever (B/14 or D/14) backwards and up – both drive-wheels are braked and clutch is disengaged.

Release the eccentric lever and the lever swivels back to the original position – brake is released.

**Parking Brake**

Swivel the eccentric lever (B/14 or D/14) backwards and up beyond the dead centre. The eccentric lever automatically comes to a stop – both drive-wheels are blocked. To release parking brake, swivel eccentric lever back to original position – brake is released.
3. Devices and Operating Elements

Gearbox

The tractor is equipped with a 4-gear reversing transmission, giving you four gears for forward speed and four gears for reverse. The 4th gear is automatically switched off when engaging the reverse gear (in the "two-wheel tractor" steering setting)!

**Only change gears with the machine decoupled and stopped!**

![FR-Changing](image)

**FR-Changing (B/7; D/7; F/7 or H/7)**

- When you move the F/R-ball handle forwards, the two-wheel tractor goes forward.
- When you move it backwards the tractors travels reverse.
- Centre position ("O") means idling-gas.

Edge (Y) of gearshift lever indicates selected gear on shift gate.

**Gearshifting**

Gears 1–2–3–4 are engaged via gear-shift handle (B/8, D/8, F/8 or H/8).

There is no neutral position here.

- Edge (1) of gearshift lever indicates selected gear on shift gate.

In general, you can only drive the two-wheel tractor, if FR-change is either in forward or reverse, no matter whether gear is engaged or not.

- When steering handle is swivelled 180° (for mounting front attachment) the ball handles change sides (refer to p41).

**The two-wheel tractor with overdrive** is delivered with a factory-fit screw (2) on the shiftgate and is assembled in position “4th gear locked”.

This prevents accidental change into 4th gear to reverse (when working with attachments mounted). **Risk of accident!**

For drives with mounted trailer, this screw can be set to position “4th gear unlocked”. Loosen hexagonal nut slightly, move screw to position “unlocked” and tighten nut.

**After driving, set screw back to position “locked”**.
Differential Gear

Differential can be locked in severe conditions to improve traction. The lever for differential lock and unlock is on the right side of the handle bar. On the lever there is a pawl to lock the disengaged differential.

- Pawl locked = differential lock disengaged

Because of the tractor’s easy steering, the differential should be unlocked when driving with the trailer mounted, especially in curves.

Keep differential locked only as long as necessary.

Engaging the Differential Lock:
(rigid wheel shaft)

On the move:
- Release throttle.
- Pull lever for differential lock slightly (B/10 or D/10).
- Unlock pawl (B/11 or D/11).
- Slowly release lever while pressing the throttle.

Disengaging the Differential Lock:
- Pull lever for differential lock until pawl locks into place.
For easy turning, the two-wheel tractor is equipped with an easy-use steering brake clutch for both wheels.

To turn right, pull lever (F/13 or H/13) to decelerate the right drive-wheel. With forward speed engaged, the machine turns right.

To turn left, pull lever (F/12 or H/12) to decelerate the left drive-wheel. With forward speed engaged, the machine turns left.

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

After swivelling the steering handle through 180°, reroute the cables that operate the steering brake clutch to ensure the right steering brake lever acts on the right wheel, etc. (refer to p42).

The machine stops immediately if the operating brake is activated by the parallel operation of both steering brakes. However, the implement continues to run!

If an implement shows signs of overloading or blockage, the steering brake clutch can be operated by pulling in both steering brake levers; as a result the main drive is disengaged and braked but the PTO shaft is still being driven.

Release the steering brake after removing the cause of the overloading so that the main drive is switched on again.
3. Devices and Operating Elements

PTO

The PTO (A/12; C/12; E/12; G/12) cannot be turned off (i.e. it rotates whenever the engine is running). PTO speed is changed on the PTO driven implements. However, the PTO speed shift lever (B/1; D/1; F/1; H/1) is positioned on the two-wheel tractor and is connected to the speed shift lever on the implement via the PTO connecting stick (A/13; C/13; E/13; G/13).

Exception: For hoeing/tilling attachments, the shift lever is positioned on tilling drive for ease of use.

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.

Reversing Lock

The two-wheel tractor is equipped with a reversing lock (safety pin (S)) for the hoeing attachment. This lock prevents that PTO is engaged from hoing attachment while the tractor is in reverse. Also, it prevents that reverse gear is engaged while PTO is at work.

- When fitting all implements, the FR-lever must be set to idling position, too (safety pin on gearbox protruding approx. 5 mm).
3. Devices and Operating Elements

Loading strap
When loading the machine and when hanging the retaining rope into place for work on slopes a loading strap must be placed around the handlebar - ensure that the bar locking lever is not bound.
Check loading belt for damage; replace it, if necessary.
Do not use any loading devices with sharp edges (e.g. sharp-edged hooks, lugs etc.).

Never walk or remain under moving loads. Danger!

Attachment Points
For towing away, recovering and tying down and to ensure a safe transport, use the attachment points at the connection flange and weight holder.

Steering Handle
Only adjust steering handle when the main drive and PTO drive is shut off - danger!

Steering Handle Height Adjustment
- Loosen clamping lever (5) until the notches are free.
- Bring steering handle (A/4; C/4; E/4; G/4) to the desired height and fit it in the appropriate notch.
- Re-tighten clamping lever.

Steering Handle Side Adjustment
From normal centre position the steering handle can be swivelled 30° to the right or left.
- Push up locking lever (B/2; D/2; F/2; H/2) and swivel steering handle to the right or left into desired position.
- Push locking lever back down and swivel steering handle slightly to the left and right until it locks into place.
Swivel Steering Handle

⚠️ Only adjust steering handle when the main drive and PTO drive is shut off

For mounting front attachment, swivel steering handle 180°.

- Remove W-clips (5) from gear shifters (1+3), using ring hook provided in tool kit.
- Push locking lever (B/2; D/2; F/2; H/2) up. At the same time swivel steering handle clockwise 180° to the right (see figure below).
- Push locking lever back down and slightly rock steering handle to the left and right until it locks into place.
- Reconnect both gear shifters with outer shift levers (2+4) and secure with W-clips.

ℹ️ Note: The gear-shift ball handle is now located on the left side of the steering handle. The FR-ball handle is now on the right.

For 1st gear, now shift forwards, for 4th gear backwards (looked into driving direction).

For forward speed, you still shift forwards, for reverse backwards.
Steering handle side adjustment (approx. 30°) is also possible with steering handle swivelled for front attachments.

ℹ️ On steering brake clutch machines, re-route the cables that operate the steering brake clutch to ensure the right steering brake lever acts on the right wheel, etc. – see following page.

Swivel back the steering handle
In the same order but anti-clockwise.
3. Devices and Operating Elements
Steering Brake Clutch Version

Re-routing steering brake clutch cables

On steering brake clutch machines it is necessary to re-route the cables that operate the steering brake clutch after the steering handle was swivelled through $180^\circ$ to ensure the right steering brake lever acts on the right wheel, etc.

- Remove the steering brake clutch cables (5) at the bottom of the machine:

  A Remove R-clip (4).
  B Remove cables (5) from retarders (3), pulling them down and out.
  C Swivel the cables outward.
  D Remove the cables from the cross-bar (2).

- Hang Bowden cables (5) back in the same direction onto the balance beams and assemble in reverse order.
- Remember to refit the R-clip (4) to secure the cables from working loose.

1 Steering brake cable, top end
2 Cross-bar
3 Retarder
4 R-clip
5 Steering brake cable, bottom end
3. Devices and Operating Elements

**Drive-Wheels**

For full tractive power, mount wheels with pointed parts of lugs showing in driving 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 (refer track widths table, p27+28).

**Differential Version**

The drive-wheels are mounted onto the inner or outer part of the hub adapter, depending on their use.

**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. Re-tighten 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>4.00-8</td>
<td>field tyre</td>
<td>tilling, from 42cm work width</td>
<td>2490 041</td>
</tr>
<tr>
<td>5.00-10</td>
<td>field tyre</td>
<td>tilling, from 50cm work width, driving</td>
<td>0190 112</td>
</tr>
<tr>
<td>5.00-12</td>
<td>field tyre</td>
<td>ploughing, harrowing</td>
<td>3291 051</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 Grip</td>
<td>mowing on soft (boggy) ground</td>
<td>3490 611</td>
</tr>
</tbody>
</table>

Wheel-track extension system

Steering brake clutch machine

- Item 2416 011 used for mounting the 66cm outer width drive-wheels (with 5.00-10 agricultural tyres) for tillage work to give an outer width of 70cm.

- Item 5519 031 used to fit Terra Grip drive wheels 21 x 11.00-8 TG.

Anti-Winding Devices

only differential version

For mowing long-stemmed plants, we recommend fitting protecting devices on both hub adapters to prevent plants from winding on.

Anti-winding kit:

Agria Order No. 3416 511
3. Devices and Operating Elements

It is recommended to use twin wheels, wheel centres or strake wheels for mowing areas on extremely steep slopes.

**Twin Wheels**

It is necessary to fit between the individual wheels:

- **Wheel-track extension for steering brake clutch machines**
  Item 5616011
  Mounting 1 - 5
  Please note with regard to:
  1. Use wheel attachment bolts version B (double end stud).
  3. Fit ball spring rings between wheel bowl and wheel-track extension (centring).

- **Differential Hubs for differential version machine**
  Item 5519011
  Mounting 1 - 5
  Please note with regard to:
  1. Use wheel attachment bolts version B (double end stud).
  3. Fit ball spring rings between wheel bowl and differential hub (centring).

**Lubrication**

Use a grease gun to lubricate the wheel flange nipple (3) (with Bio-grease) after every 100 operating hours or after cleaning the machine with a pressure washer.

**Adjustment**

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

**Strake Wheel**

Item 5417 511 for drive-wheels 4.00-8
Item 5517 521 for drive wheels 5.00-10

**Differential Version**

Mounting 1 - 4

Please note with regard to:

1. Fit drive-wheels on inner part of hub adapters.
2. Fit strake wheel flanges to outer part of hub adapters.
3. Make sure that the strake wheel webs face the machine in travel direction (see fig.).
4. Attach the tension spring to secure the tommy screw.

**Steering Brake Clutch Version**

Mounting 1 - 5

Please note with regard to:

1. Use wheel attachment bolts version B (double end stud).
2. Fit ball spring rings between drive wheel and flange.
3. Ensure the strake wheel webs face the machine in travel direction (see fig.).
4. Attach the tension spring (9) to secure the tommy screw.
Front Weights and Wheel Weights

It is possible to attach front weights and wheel weights to improve traction.

Attaching Wheel Weights

Item. No. ............................... 3421 051 for drive-wheels 5.00-10, 5.00-12

Screw the threaded rods (2) placing glue as a thread-locker diagonally into the outside step of the stepped hub (1) or the wheel flange (1.1) of the machine.

Place drive wheels (3) onto the threaded rods (2) and fix into place with the spherical snap rings (4) and the wheel nuts (5). Attach wheel bolts (6) with spherical snap rings (4).

The spherical side of each of the snap rings must face the wheel disc.

Tighten wheel nuts and bolts to 100 Nm. Place wheel weight (7) on the threaded rods (2) and fix into place with retaining washers (8) and wheel nuts (9).

Front weight Item no. 3228 011

We recommend to use a front weight to improve weight distribution when a heavy implement is attached to the machine.

Stand

For parking the two-wheel tractor with no implement mounted and for better coupling of implements, the two-wheel tractor is equipped with a stand (A/16 or C/16) which is positioned at the front under the engine protection base. For parking the tractor, push the leg down and forward. For parking, push it back up.
Engine cover

Removing the engine cover
- Pull on the cover at its rear end and lift it
- Pull on the cover at its front end and remove it

Replacing the engine cover
- Place the rubber cups onto the ball-heads
- Then press gently on the front and rear cover ends to lock the cups onto the ball-heads.

For an easier assembly, apply Bio-lubrication grease on the rubber cups.

Fuse

3400 Diesel Engine with E-Starter Version

A fuse is located between the regulator and appliance to protect the regulator and generator from a short circuit induced from outside.

The fuse (J/26) is located on the engine under the panelling (J/23). Replace the fuse if it is defective. To do this, remove the panel (J/26) and open the protective bracket (J/25). Inside this bracket you will find a spare fuse. Ensure to provide another spare fuse in time (20A glass tube fuse).
Battery
There is no dry pre-charging of batteries on the new machines or trailers. Therefore the battery must be filled with accumulator acid and charged (charging current =1/10 of battery capacity).

*Note manufacturer’s instructions!*

Ignition Switch
The ignition switch (34) for electric starter has 3 settings

- **0** = Charging current off, key removable
- **I** = Operation
- **I** = Start position,
  
  ignition key automatically goes into operating position „I“

⚠️ Warning: Do not set ignition switch to “O” while the engine is running. This can damage the charging regulator.

Warning Signal
A beeper (35) is fitted as a battery charge indicator.

The warning signal sounds when ignition key is in position „I“ and the engine is at a standstill, and goes out as soon as the engine runs and the generator starts charging the battery.

It also goes out when the ignition key is in position or is removed.

If the warning signal sounds while the engine is running, the generator does not charge the battery correctly - Check fuses.

→ agria- Service
Mounting and Dismounting Implements

Only mount and dismount implements with engine off.

Read and pay attention to the operating instructions of the implement before fitting and putting it into operation.

Mounting Implements

Ensure that coupling surfaces on two-wheel tractor and implement are clean.

1. For PTO driven implements, set shift lever (4) on implement to position “O”.

2. Coupling sleeve should be slightly greased with bio-grease.

3. When fitting set the F-R switch to "O" so that the locking rod is only approx. 5 mm in front of the connecting flange of the main machine.

4. Slide pegs (2) of base machine into hooks (3) of implement.

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

Note:

- Are flanges (5) properly centred?
- Are flanges flat fitted?
- Tighten cap nuts evenly.

6. For PTO driven implement, press PTO link (6) onto shift lever (4) until it locks into place. Insert circlip (8) and secure.

For dismounting, proceed in reverse order.
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.

In case of fuel-spillage, pull the two-wheel tractor away from the spillage before you start the engine.

- Check oil level in the gearbox

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.
4. Commissioning and Operation  

Petrol Engine Version

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Engage parking brake (B/14; F/14)</td>
</tr>
<tr>
<td>2</td>
<td>Check the engine oil level</td>
</tr>
<tr>
<td>3</td>
<td>Air filter clean?</td>
</tr>
<tr>
<td>4</td>
<td>Sufficient fuel is filled into the tank?</td>
</tr>
<tr>
<td>5</td>
<td>Mount spark plug connector</td>
</tr>
<tr>
<td>6</td>
<td>Open both fuel taps (K/3 + 15)</td>
</tr>
<tr>
<td>7</td>
<td>Choke</td>
</tr>
<tr>
<td></td>
<td>- <strong>Cold engine</strong>: pull CHOKE knob (K/5).</td>
</tr>
<tr>
<td></td>
<td>- <strong>Warm engine</strong>: leave CHOKE knob in normal operating position or pull out half way</td>
</tr>
<tr>
<td>8</td>
<td>VR and PTO switch to &quot;O&quot;</td>
</tr>
<tr>
<td>9</td>
<td>Set engine shut-off switch (B/3; F/3) to operating position (&quot;I&quot;)</td>
</tr>
<tr>
<td>10</td>
<td>Clutch lever (B/5; F/5) in starting position (engage locking catch (B/6; F/6))</td>
</tr>
<tr>
<td>11</td>
<td>Set speed control lever (B/9; F/9) to 1/3 throttle</td>
</tr>
<tr>
<td>12</td>
<td>Start engine from a position outside the danger zone. Pull starting-rope on handle (K/6) until you feel starter clutch engage. Then <strong>pull hard and fast</strong> to start the engine. After the start, carefully let rope glide back. Do not let snap.</td>
</tr>
<tr>
<td>13</td>
<td>Once the engine has started, let it warm up for some time. Slowly push choke back into operating position, if necessary.</td>
</tr>
</tbody>
</table>

Starting Petrol Engine

Never start engine in closed rooms. Exhaust fumes contain carbon monoxide, which acts toxic when inhaled.
4. Commissioning and Operation
Diesel Engine Version

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.

1. Make sure you check and maintain air filters regularly and use clean fuel.
2. Only use branded diesel, ensure timely provision of “winter diesel fuel”

Only use approved fuel cans to be purchased in special shops. Rusty sheet metal cans or fuel cans not suited for diesel 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.

- 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 fill the fuel tank beyond the red mark on the filler strainer for the fuel to expand.

In case of fuel-spillage, pull the two-wheel tractor away from the spillage before you start the engine.

- Check oil level in the gearbox

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
4. Commissioning and Operation
Diesel Engine / Recoil Starter Version

Starting Diesel Engine
Recoil Starter Version

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

1 Engage parking brake (D/14; F/14)
2 Check the engine oil level
3 Air filter clean?
4 Sufficient fuel is filled into the tank?
5 Open the fuel tap (J/3)
6 VR and PTO switch to "O"
7 Clutch lever (D/5; H/5) in starting position (engage locking catch (D/6; H/6))
8 Set speed control lever (D/9; H/9) to “max.”
9 Pull starting-rope on handle (J/6) until you feel resistance (piston in compressing position).
10 Pull decompression rope (J/14) downwards.
11 Start engine from a position outside the danger zone.
Pull starting-rope (J/6) hard and fast to start the engine. After the start, carefully let rope glide back. Do not let snap.
- Decompression automatically goes back into former position.
12 Slowly set speed control lever to centre position (half throttle) and let engine warm up for some time.
4. Commissioning and Operation
Diesel Engine / E-Starter Version

Starten des Diesel-Motors
E-Starter

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

1. Engage parking brake (D/14; F/14)
2. Check the engine oil level
3. Air filter clean?
4. Sufficient fuel is filled into the tank?
5. Open the fuel tap (J/3)
6. VR and PTO switch to "O"
7. Clutch lever (D/5; H/5) in starting position (engage locking catch (D/6; H/6))
8. Set speed control lever (D/9; H/9) to “max.”
9. Insert ignition key into ignition-switch (C/25; G/25) and turn right to position "I"
   - even when started using the reverse starter.
   - Warning signal sounds
10. Turn ignition key further to the right to position “START”.
    As soon as the engine starts, let go ignition key – it automatically moves back into position "I". - Warning signal must stop.
    If the engine does not start and re-start is necessary, turn ignition key back to position "O" to repeat start (re-start lock).
11. Slowly move speed control lever to centre position (half throttle) and let engine warm up for some time.
Shutting off Petrol Engine

1. Engage parking brake

2. Set speed control lever to idle position and let engine run idle for approx. 30 seconds

3. Set engine-off-switch to "O"

4. Close both fuel taps

5. Secure two wheel tractor against unauthorized use and rolling away
   - disconnect spark-plug connector
   - use chocks

---

In a dangerous situation, set the engine shut-off switch (B/3; F/3) to „O“ to switch off the engine.

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.
Shutting off Diesel Engine

1. Engage parking brake

2. Before you shut off the engine let it run at increased idling speed for 1 minute to cool down and to avoid carbon to deposit on the injection valve. This ensures continued and reliable operation.

3. Set speed control lever (D/9; H/9) to “STOP”

   For shutting off the engine never activate decompression, as this might damage the valves.

4. Electric-starter version: turn key back to position "O" – battery charge warning signal goes out

5. Close the fuel tap (J/3)

6. Secure two-wheel tractor against unauthorized use and rolling away.
   Electric starter version:
   – remove ignition key
   – use chocks
4. Commissioning and Operation

Operations

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

Check safety circuit function - the engine must come to a standstill when the safety lever is released (refer p75).

Only operate the machine if safety circuit works!

2. Wear individual protective ear plugs and safety shoes

3. 1. Depress the safety circuit lever
2. Pull the clutch lever

4. Engage appropriate gear

Do not engage 4th gear for reverse movements when using front-mounted implements - Risk of accident!

Overdrive version: lock off the 4th gear with the locking screw, see page 36.

5. For operations with PTO-powered attachments:

Move PTO speed shift lever (B/1, D/1, F/1, H/1) forwards in driving direction – implement drive is turned on.

6. Move F/R drive to position forward or reverse

7. Release the brake

8. Slowly release the hand clutch lever while pressing the throttle. Note: Clutch inserts with low delay.

Changing the travelling direction from forward to reverse:

1. Set speed control lever to idling position

2. Pull hand clutch lever and hold

3. Move F/R drive to position reverse or forward

4. Slowly release hand clutch lever while pressing the throttle

Pay particular attention when reversing and manoeuvring to any obstructions so that you are not surprized by these.
4. Commissioning and Operation

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

For * however transport only 3 m
4. Commissioning and Operation

Working on Slopes

Pay attention to the operating instructions and safety advice of the implements.

Depending on the state of the ground (vegetation, dampness ...), special footwear must be worn so that the operator does not slip or fall.

To prevent the tool carrier from sliding on slopes make sure it is secured by another person using a bar or a rope. This person must stay at a higher position than the vehicle and at a safe distance from the danger zone at work.

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

4. Working with the cultivator implement

Attention: When tilling the shut-off distance after releasing the safety lever is:

- in a working setting max. 30 cm
- when transporting up to 2 m.

Please pay particular attention to this when reversing!

Always work with the cultivator implement diagonally to the slope but never uphill or downhill, as the machine can turn over due to a sudden jolt of the cultivator or be pushed downhill by the cultivator.

When hoeing and tilling on difficult ground (stony, hard etc.) a sudden forwards and upward may happen and therefore particular attention must be paid.

Advice for mowing/mulching

For mowing/mulching only work uphill in order to cut free the headland. Never work down the slope, as the machine can slip. Do not attempt to stop a machine which has begun to slip. The machine is too heavy to be held up. Steer the machine as diagonally to the slope as possible by steering movements. Release the safety lever so that the safety system is activated.

After completing mowing or when there is a blockage:

- Set the drive to idling. The machine then comes to a stop, however the cutters continue to move; this means that the mowing system is freed of cuttings.
- Switch off PTO drive.
**4. Commissioning and Operation**

**Safety references for the handling**

- Do not run the engine in closed areas, in which dangerous carbon monoxide can accumulate itself.
- Always wear 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 pay attention to a safe stand on slopes.
- Only lead the machine in the step speed.
- Always work transverse to the slope, never slope up or downward.
- Be particularly careful, if you change the driving direction on slopes.
- Do not work on excessively steep slopes.
- Be particularly careful, if you turn the machine around or pull it to itself.
- 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.
Driving with Mounted Trailer

When driving the two-wheel tractor on public roads (whether with or without trailer), adhere to traffic rules, e.g. in respect of tail lights.

Only differential version machines fitted with 5.0-10 drive wheels are permitted to tow a trailer on public roads.

The two-wheel tractor must be equipped with a generator and the trailer with lighting and flash-lights in accordance with national traffic rules. Besides, the operator is required to carry a type approval both for the two-wheel tractor and the trailer attached.

Preparations
- Fit drive-wheels (refer to p43).
- Fit wings to gearbox housing with attachment bolts (A/10; C/10; E/10; G/10).

Coupling
- Mount trailer drawbar (1) onto tractor hitch (A/6; C/6; E/6; G/6).
- Insert socket pin (A/8; C/8; E/8; G/8) and secure with linch pin (A/7; C/7; E/7; G/7).
- Connect cable and connector (2) to socket (A/18; C/18; E/18; G/18) of two-wheel tractor.

Required Accessories:
1 pair of drive-wheels 5.00-10
   Item No. 0190 112
1 pair of wings
   Item No. 3424 011
1 two-wheel trailer
   Item No. 3481 121
   - permissible total weight 650 kg
   - permissible tongue load 85 kg

It is not allowed to ride on the trailer if attached to a steering brake clutch machine (3400 KL) – risk of accident!
Setting the brake

The two-wheel trailer is equipped with a combined operating/park brake. This must be set accordingly.

Operating brake = (○)
- Insert linch pin (7)

Park brake = (P)
- Remove linch pin (7)
4. Commissioning and Operation

Driving

- Before you start, switch on main switch (14) on the switch box. After driving, make **absolutely sure to switch off**, otherwise the battery will discharge.
- Check lighting and flash indicators.
- Check whether foot brake and parking brake of the trailer are operational.
- Set brake function to operating brake to ride on the combination. **Check braking.**
- Check tyre air pressure (regularly):
  - Two-wheel tractor ..................... 1.5 bar
  - Two-wheel trailer ..................... 2.5 bar
For smooth driving, make sure that tyre air pressure on rear and front pair of wheels is the same, respectively.
- Observe the permissible total weight of trailer; **avoid any overloading.**
- Hoeing and tilling implements must not be attached.
- Downhill-driving only with gear engaged! For steep downhill-drives engage 2nd gear.

  Do not lock the differential (the tractor steers easily, especially when travelling in curves).

Only keep differential lock engaged as long as it is necessary.

Danger Warning

Driving with the trailer requires a great deal of attention in order to guard against a loss of control and the danger of injury as a result of an imbalance effects on the pulling tractor.

The danger increases over-proportionately at increased speed, when travelling in curves and when travelling uphill and downhill.

When driving in reverse this danger is additionally increased through the discrepancy in alignment between the line of vision and body position, as well as the altered powers of steering and steering reaction.

Generally, and particularly when driving in reverse, you should observe the following rules:

1. **Look out for obstacles, particularly those at ground level.**
2. **Only drive at a speed at which you are always able to stop in time when confronted with any possible danger.**
3. **Only drive in reverse in 1st and 2nd gear.**
4. **When driving in curves, as well as when going uphill or downhill, adjust the speed accordingly.**
5. **Only brake using the trailer brake.**
4. Commissioning and Operation

Raised areas and dips in the ground, stones etc. could cause sudden shocks and throw the tractor to the side or vertically. Tractor steering control could be completely lost and the tractor could dip down a small amount at the rear as a result of large impacts on the steering, increased by shocks from the side. When driving in curves and across inclines, additional lateral forces are present which could possibly throw the operator out of his seat.

These effects and their consequences are increased even more at high speeds, when transporting loads, when driving in curves and/or driving uphill and downhill.

There is a danger of the operator losing control of the vehicle and being injured by the link handle or being flung from his seat. There is the possibility, as a result of this, of material damage and that people standing nearby, or the operator himself, could be injured by the vehicle.

⚠️ Constant attention needs to be paid to the ground conditions.

Where possible clear objects out of the way beforehand or drive slowly and in an ordered manner over them. Constantly keep possible dangers in mind. Drive slowly past obstacles, in curves, on inclines and on sloping areas.

Adjust your speed to the conditions on the ground and the weather situation.

Secure the vehicle against rolling away when parked on a slope.

The operator should position himself so that in any dangerous situations he cannot be hit or injured by the steering wheel, that he cannot be thrown from his seat, and that he is always able to control the steering forces.

Select the steering lock according to the conditions of use, such that the lateral forces can be constantly kept under control by the operator.

Do not approach any obstacles at high speed.

Stop immediately in dangerous situations (Disengage the clutch and brake using the trailer. If necessary turn the engine off).
Apart from observing all operating instructions, it is also important to pay attention to the following maintenance instructions. Please note:

Please note:

Only trained specialist personnel who are able to perform professional maintenance and repair work may carry out this work.

Only do all maintenance work with the engine shut off and spark plug connector disconnected.

When working on mowing or tilling tools, wear safety gloves!

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

---

**Engine**

**Checking Oil Level**

- each time you take up operation and after every 8 operating hours,
- only with engine shut off and tractor in horizontal position.
- Clean oil filler plug and surrounding parts.
- Remove oil filler 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, 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 oil filler plug, drain plug and surrounding parts.
- Change the oil and dispose of prop-erly.

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

- For engine oil quality refer to “Specifications”
Dry-Type Air Filter

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

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

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

- Replace the filter element after 5 cleaning actions or approx. every 200 operating hours.

- Replace immediately damaged filter elements.
Spark Plug

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

The spark plug (3) is arranged underneath the fuel tank:

- Fold up fuel tank (1).

If fuel tank does not stay up in folded position, tighten hinge screws (2) slightly until fuel tank stays up and still folds easily up and down.

- Place back:
  fold back fuel tank and lock onto ball button (4).

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 (K/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←
Exhaust System
Check exhaust system (K/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.

Idling Speed 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.
5. Maintenance and Repair

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

Only trained specialist personnel who are able to perform professional maintenance and repair work may carry out this work.

Only do all maintenance work with the engine shut off and ignition key disconnected.

When working on mowing or tilling tools, wear safety gloves!

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

Engine

Checking Oil Level

- Each time you take up operation and after every 8 operating hours.
- Check only with engine switched off and machine in horizontal position.
- Clean oil dip stick and surrounding parts.
- Unscrew the oil dip stick, clean the dip-stick with a clean rag, re-insert it all the way and screw it in.
- Unscrew the oil dip stick and read the oil level.
- Refill oil, if the oil level is below the lower dip-stick mark. Refill engine oil (see “Specifications”) up to upper level mark on dip-stick; do not overfill!

Changing Engine Oil

The first oil change is after 50 operating hours. Subsequent oil changes are after 200 operating hours or once a year, depending on which period is completed first. At extreme strain and high temperatures, change oil after 100 operating hours while the engine is still warm, but not hot – danger of burns!

- Clean oil filler plug, drain plug and surrounding parts.
- Open the filling plug and the drain plug and drain the oil into a suitable container and dispose of properly!
- Each time you change engine oil, wash engine oil filter in diesel fuel. Replace damaged filter.
- Fill fresh engine oil into the oil filling opening.

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

Refer to specifications for oil quantity and quality.
## 5. Maintenance and Repair

### Diesel Engine

<table>
<thead>
<tr>
<th></th>
<th>Diagram 1</th>
<th>Diagram 2</th>
<th>Diagram 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Clean air filter and outside surrounding parts.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Remove the wing nut and air filter cap including the cyclone pre-filter.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Rotate the air filter cap to allow any dirt inside the cyclone pre-filter drop out.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Carefully remove foamed pre-filter.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Wash foamed pre-filter in detergent and water (no petrol).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Squeeze foamed pre-filter and dry it.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Remove paper filter element</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Slightly tap the element on a smooth surface.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Do not use compressed air to blow out dust of foamed pre-filter and paper filter element. Do not treat with oil.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Re-insert the filter element and attach the foamed pre-filter.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Reposition air filter cap and fasten with wing nut. Replace paper filter element after every 400 operating hours or at least once a year.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### Dry-Type Air Filter

When you take up operation check the air filter (J/4) on dirt, clean it if necessary. Clean air filter (J/4) after a maximum of every 50 operating hours or at least after 3 months, in case of heavy dust occurrence even earlier.

1. Clean air filter and outside surrounding parts.
2. Remove the wing nut and air filter cap including the cyclone pre-filter.
3. Rotate the air filter cap to allow any dirt inside the cyclone pre-filter drop out.
4. Carefully remove foamed pre-filter.
5. Wash foamed pre-filter in detergent and water (no petrol).
6. Squeeze foamed pre-filter and dry it.
7. Remove paper filter element
8. Slightly tap the element on a smooth surface.
9. Do not use compressed air to blow out dust of foamed pre-filter and paper filter element. Do not treat with oil.
10. Re-insert the filter element and attach the foamed pre-filter.
11. Reposition air filter cap and fasten with wing nut. Replace paper filter element after every 400 operating hours or at least once a year.

- Replace immediately damaged filter elements.
5. Maintenance and Repair

Draining fuel
- Provide a proper container with funnel or similar.
- Remove the drain plug (X/16) and drain the fuel into a proper container.

Only discharge fuel in the open.
- Re-attach the drain plug (X/16) with O-ring and tighten it (check the O-ring and replace it if necessary)

Fuel filter
Clean the fuel filter insert at approx. 200 operating hour intervals, earlier, if engine output drops.

Filter disassembly/assembly:
- Drain the fuel.
- Remove hex head nuts (X/7)
- Remove the filter insert (X/4) from the fuel tank through the filling hole.
- Clean the fuel filter with diesel oil and replace the insert if it is damaged.
- Reverse the above order to reassemble the fuel filter after checking and replacing (if necessary) the gasket (X/5) and o-ring (X/6).
- Tighten the hex nuts.
- Fill fuel and check the fuel system for leakages.
- Bleed the fuel system.
- Exchange the fuel filter after 400 hours.

Fuel Hoses
Exchange after every 2 years; exchange leaking fuel hoses immediately.

Bleeding the Fuel System
The engine is equipped with an automatic bleeding system, however after the fuel tank was emptied completely or after exchanging or cleaning the fuel-filter/fuel hoses proceed as follows:
- Fill diesel fuel into fuel tank.
- Crank engine several times with recoil starter or electric starter and start engine.
- Let engine run for approx. 1 minute.
5. Maintenance and Repair

Cleaning the Cooling System
After a long period of operation the cooling system may become clogged by dirt and plant trash. Uninterrupted operation with a clogged cooling system causes the engine to heat up and become damaged.

- Always check fan grille (J/7) and free from dirt and plant trash taken in.
- After every 100 operating hours or at least once a year before season starts remove fan case to clean cooling fins on cylinder and cylinder head as well as guiding plates and fan wheel, both serving for smooth air circulation.

Exhaust System
Constantly check exhaust system (J/9) for plant trash and clean, if necessary. Otherwise danger of fire!
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.

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

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!
5. Maintenance and Repair

Machine

Gearbox

The gearbox must cool down before beginning maintenance. The temperature should not exceed 51°C during maintenance.

Check oil level in gearbox each time before you take the machine into operation and after every 50 operating hours (oil dip-stick and filling opening (A/9; C/9; E/9; G/9). With the tractor 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 base machine after the first 50 operating hours and after every 200 operating hours while the engine is still warm.

1. Clean oil filler plug (A/9, C/9, E/9, G/9) and drain plug (A/20, C/20, E/20, G/20) as well as surrounding parts.

2. Change the oil and dispose of properly.

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

- For transmission oil quality refer to “Specifications”
5. Maintenance and Repair

Safety circuit

Do not manipulate the safety circuit and do not tie down the safety lever!

Check safety circuit function each time you take up operation and each time you maintain the machine, as a damaged safety system is not immediately visible from the outside and both the retention force and the automatic resetting function of the safety lever remains unaffected.

In order to check, switch off the main drive and the PTO shaft and then engage the clutch to position "I".

- At release of safety lever (B/4 or D/4), the engine must automatically come to a stop.

● Petrol engine: Check electric lines, switches and connections and exchange, if necessary.
   → agria- Service ←

● Diesel engine: Where necessary correct the setting of the Bowden cable stop function at the Bowden cable adjusting screw on the engine. Replace any damaged Bowden cable.
   → agria- Service ←

Engine Shut-off Switch

Check function of engine shut-off switch each time you take up operation and each time you maintain the machine.

● Petrol engine: With shut-off switch (B/15; F/15) in position "O" the engine must come to a stop. If necessary, check electric lines and connections.
   → agria- Service ←

● Diesel engine: If the speed control lever (D/9; H/9) is in "STOP" position, the engine must come to stop. If necessary, correct engine speed cable or STOP-Bowden cable on Bowden cable set screws.
   → agria- Service ←

Steering Handle

● Yearly lubricate nipples on steering handle and hitch. After cleaning with compressed air, lubricate with bio-lubricating grease.

Apply grease generously to leave a grease neck around bearings to prevent water and dirt from penetrating.
Drive-Wheels

1. When commissioning the tractor and each time you change wheels, check and tighten wheel bolts and nuts after the first 2 operating hours with 100 Nm (10 kpm). Proceed likewise when doing maintenance work.

2. After the first two operating hours and after every 50 operating hours, retighten the hex nuts (A/22; C/22) on the hub adapters to 100 Nm and the nuts (E/23; G/23) on the wheel hubs to 160 Nm.

3. Check tyre air pressure regularly. For smooth driving, make sure that there is the same pressure in front and rear tyres respectively - do not inflate above the maximum tyre pressure!

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.
5. Maintenance and Repair

Battery

Note manufacturer’s instructions!

Loading:
- Remove the battery from the tractor, starting by disconnecting the negative terminal.
- Ensure that the room is well ventilated.
- Only use suitable DC chargers.
- Connect the positive terminal on the battery with the positive output of the charger and the negative terminal in a similar way.
- Do not switch on the charger until the battery has been connected.
- Charging current recommendation: 1/10 ampere of the battery capacity Ah.
- For recharging use charger with a constant charge voltage of 14.4 V.
- Interrupt charging if the acid temperature exceeds 45°C.
- The battery is fully charged if the charging voltage no longer increases within 2 hours.

Maintenance:
- Keep the battery clean and dry
- Only wipe the battery with a moist cloth, otherwise there is a risk of an explosion
- Do not open the battery
- Check state of battery at least every 50 hours of operation.

Do not leave battery in an unloaded state! Avoid sparks and open flames in the vicinity of batteries. Pay attention when working with battery acid - corrosive! Only use the prescribed fuses. If fuses are used which are too high, the electrical equipment will be destroyed - Fire risk!

Shutting down the battery:
- Load the battery, store in a cool place and disconnect tractor positive terminal.
- Regularly check loading and correct any recharge

Disposal:
- Give up used batteries at collection point (store and transport upright and in a stable position so no acid is discharged).
- Never dispose of the battery as household refuse!
5. Maintenance and Repair

Adjustments on 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 brake pads).

A) Clutch play up to pressure point: ........
.................................................... X = 1 - 2 mm

In the petrol engine version, however, the clutch lever must be in an engaged position next to the lever bearing so that the safety circuit works (electric circuit).

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

B) Differential gear: ................. X = 3 - 5 mm

! = The Bowden cable must be placed in the hand lever support in the upper position.

C) Steering brake clutch: ..... X = 3 - 5 mm

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

Adjustment:

1. Remove retaining spring (2)
2. remove cable end (3) and adjusting pin (4) out of bracket in hand lever.

2 Adjust the adjusting pin (4) (+ -) to a play of X.

3. Place cable end and adjusting pin back into bracket
2. fit retaining spring (2).
5. Maintenance and Repair

Safety Hillholder Version

**Brake**

**Differential Version, but not Overdrive**

- Every time you start operation, check the brake and parking brake on proper function.

1. The brake must be fully effective when the clutch lever is pulled in and the ratchet is engaged.

2. When the clutch lever is pulled in half-way the brake must be released.

Setting is made using the adjusting pin in the clutch lever (refer to p78) - the setting of the clutch may, however, not be affected by this.

In cases where the setting with the adjusting pin is insufficient the basic setting on the disc brake housing must be changed.

**Basic setting of the Disc Brake**

3. Set the clutch lever to the position "Brake released" and hold.

4. Loosen the hex head nuts (1) on both sides.

5. Move the park brake carter against the brake disc (3) by a slight pressure on the brake carter until the brake shoe (4) fits slightly.

6. Fasten the hex head nuts (1) on both sides.

7. Check the effectiveness of the brake, fine set where necessary using the adjusting pin in the clutch lever or readjust.

8. Check the brake free wheel.

   - F-R shifter on "idle"

   - The brake disc must turn easily by hand, readjust if necessary.

**3400 KL Version (steering brake clutch)**

For monitoring and adjustment see the chapter Service and Parking brake.
5. Maintenance and Repair

Service and Parking Brake
3400 Differential with Overdrive Version

- Check the effectiveness of the parking brake every time before starting.

1. Where the eccentric lever is swung back at the top over the slack point (B/14; D/14) the brake must be fully effective.

2. Where the eccentric lever is swivelled down the brake must be released.

The setting is made using the hexagon nut for KL version and using the Bowden cable adjusting screw for differential with overdrive version under the tool box.

For differential with overdrive version note also the setting of the disc brake.

Disc Brake
3400 Differential with Brake Version and Overdrive

Checking brake pad
After every 100 operating hours make a visual check of the brake pads (4 + 5) for wear. The pads should have a minimum thickness of 3 mm, where necessary replace pads.

Replacing brake pads
- Loosen hexagonal nut (1) on both sides and unscrew
- Remove angled bracket (2) with disc and brake housing
- Replace brake pads (4 + 5)
- Re-assemble disc brake in reverse order to above
- Carry out setting (refer to p78 and following pages).

1 Hex head nut
2 Angle for hillholder
3 Brake disc
4 Front brake lining
5 Back brake lining
5. Maintenance and Repair

**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.

3. At least **once a year** and after cleaning: Slightly grease all gliding and moving parts (e.g. speed control lever, lever bearing, etc.) with bio-lubricating grease and bio-lubrication oil.

**Cleaning**

**Engine:** Clean engine only with a cloth. Do not spray with water, as water might leak into ignition and fuel system causing 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.

---

**Graphic Symbols**

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

1. 79427 (Diff.)
2. 79428 (KL)
3. 79429 (Petrol engine)
4. 75750 ((KL)
5. 75752 (Diff.)
6. 78771 (KL)
7. 79426
8. 75755 (Petrol engine)
9. 75754 (Diesel engine)
10. 61477 (Diff.)
11. 78772 (KL)
12. 79431
13. 58751
14. 69883 (Petrol engine)
5. Maintenance and Repair

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

a) Clean thoroughly
   Repair paint coat.

b) Spray all shining parts and the cutter bar with Bio-slushing oil.

c) Engine preservation
   ● Petrol Engine
     – Fully discharge fuel in the open and into suitable containers or fill fuel tank and add fuel stabilizer (Agria No. 799 09). - Observe enclosed instructions. Let engine run for approx. 1 minute.
     – Change the engine oil.
     – Fill a tea-spoon (approx. 0.03l) of engine oil into the spark plug opening. Slowly crank the engine.
     – Reinstall the spark plug and set the piston to compression via the recoil starter (pull the starter grip until resistance is felt) – valves are closed.
     – Slowly crank the engine after every 2–3 weeks (spark-plug connector is removed). Then set the piston to compression again.

   ● Diesel Engine
     – Change engine oil.
     – For longer storage, close exhaust pipe and air filter opening with crape or similar tape.

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 unsupported.

e) Parking
Because of severe corrosion:
   ● protect against weather influence
   ● do not park the tractor:
     - in humid rooms
     - in rooms where fertilizer is stored
     - in stables or adjacent rooms.

f) Covering the machine
Protect the 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>- Spark plug connector not connected</td>
<td>Connect spark plug connector</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>- Choke is not pulled</td>
<td>Set choke lever to position CHOK</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>- Engine shut-off switch is set to “0”</td>
<td>Set engine shut-off switch to “I”</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>- Fuel tank empty or poor fuel</td>
<td>Fill fresh fuel</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Fuel line clogged</td>
<td>Clean fuel line</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Defective spark plug</td>
<td>Clean, adjust or exchange spark plug</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Engine too much fuel (&quot;flooded engine&quot;)</td>
<td>Dry and clean spark plug and start at full throttle</td>
<td>BM</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 attachment bolts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Engine does not start</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Misfirings in engine</td>
<td>- Engine running in CHOK range</td>
<td>Set CHOK lever to operating position</td>
<td>52</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>52</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>67</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>* BM</td>
</tr>
<tr>
<td>Excessive temperature in engine</td>
<td>- Low engine oil level</td>
<td>Refill oil immediately</td>
<td>66</td>
</tr>
<tr>
<td></td>
<td>- Impaired cooling</td>
<td>Clean cooling fan grid, clean internal cooling fins</td>
<td>68</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>67</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>* BM</td>
</tr>
<tr>
<td>Misfirings in engine at high speeds</td>
<td>- Short firing intervals</td>
<td>Adjust spark plug</td>
<td>68, BM</td>
</tr>
<tr>
<td></td>
<td>- Incorrect idle mixture</td>
<td>Adjust carburetor</td>
<td>* BM</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>68, BM</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>* BM</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>67</td>
</tr>
</tbody>
</table>
## 6. Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Remedy</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine does not run smoothly</td>
<td>Speed control linkages clogged or jammed</td>
<td>Clean speed control linkages</td>
<td>69</td>
</tr>
<tr>
<td></td>
<td>Defective electric cabling</td>
<td>Check cable and connection</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Earth missing</td>
<td>Check ground contact</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Defective engine shut-off switch</td>
<td>Replace switch</td>
<td></td>
</tr>
<tr>
<td>Engine output too low</td>
<td>Air filter clogged</td>
<td>Clean air filter</td>
<td>67</td>
</tr>
<tr>
<td></td>
<td>Loose cylinder head or damaged gasket</td>
<td>Tighten cylinder head, exchange gasket</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Poor compression</td>
<td>Have engine checked</td>
<td></td>
</tr>
<tr>
<td><strong>Diesel engine:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine does not start</td>
<td>Speed control lever set to “STOP”</td>
<td>Move speed control lever to “Max”</td>
<td>54, 55</td>
</tr>
<tr>
<td></td>
<td>Fuel tank empty or poor fuel</td>
<td>Fill fresh fuel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fuel line or fuel filter clogged</td>
<td>Clean fuel line or filter</td>
<td>72</td>
</tr>
<tr>
<td></td>
<td>Injector nozzle or injection line clogged</td>
<td>Clean injector nozzle or injection line</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>Wrong injection pressure</td>
<td>Check pressure</td>
<td></td>
</tr>
<tr>
<td>Misfirings in engine</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</td>
<td>71</td>
</tr>
<tr>
<td></td>
<td>Injector nozzle or injection line clogged</td>
<td>Clean injector nozzle or injection line</td>
<td>BM</td>
</tr>
<tr>
<td>Excessive temperature in engine</td>
<td>Lack of engine oil</td>
<td>Refill engine oil immediately</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>Impaired cooling</td>
<td>Clean fan grid, clean internal cooling fins</td>
<td>73</td>
</tr>
<tr>
<td>Misfirings at high speeds</td>
<td>Injector nozzle clogged</td>
<td>Clean injector nozzle</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>Wrong injection pressure</td>
<td>Re-adjust injection pressure</td>
<td></td>
</tr>
<tr>
<td>Engine frequently stalls in idle</td>
<td>Air filter clogged</td>
<td>Clean air-filter</td>
<td>71</td>
</tr>
<tr>
<td>Engine does not stop when set to “STOP”</td>
<td>Improper adjustment of Bowden cable for setting of speed</td>
<td>Re-adjust Bowden cable</td>
<td>75</td>
</tr>
</tbody>
</table>
### 6. Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Remedy</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diesel engine output too low</td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>71</td>
</tr>
<tr>
<td></td>
<td>- Loose cylinder head or damaged gasket</td>
<td>Tighten cylinder head, exchange gasket</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>- Poor compression</td>
<td>Have engine checked</td>
<td>*</td>
</tr>
<tr>
<td>E-Start version:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-starter does not start</td>
<td>- Battery is empty</td>
<td>Charge or replace the battery</td>
<td>77</td>
</tr>
<tr>
<td></td>
<td>- Defective fuse</td>
<td>Replace the fuse</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td>- Harness, E-starter damaged</td>
<td>Inspect harness and E-starter</td>
<td>*</td>
</tr>
<tr>
<td>Beeper for charge warning does not sound</td>
<td>- Start switch not activated</td>
<td>Move start switch to &quot;I&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Defective beeper</td>
<td>Replace beeper</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Defective fuse</td>
<td>Replace the fuse</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td>- Harness is damaged</td>
<td>Inspect harness</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>- Defective regulator</td>
<td>Inspect regulator</td>
<td>*</td>
</tr>
<tr>
<td>Beeper sounds during operation</td>
<td>- Defective regulator</td>
<td>Inspect regulator</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>- Defective generator</td>
<td>Replace generator</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>- Clutch hand lever misadjusted</td>
<td>Adjust clutch free play</td>
<td>78</td>
</tr>
<tr>
<td>Clutch slips</td>
<td>- Clutch lever misadjusted</td>
<td>Adjust clutch free play</td>
<td>78</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 attachment bolts</td>
<td>Tighten attachment bolts</td>
<td>81</td>
</tr>
</tbody>
</table>

* = For this purpose contact your agria workshop.
BM = See engine operating instructions!
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.
**Generator, Petrol engine**

1. Generator 12V 150W
2. Regulator (56698)
3. Socket (63554)

AC voltage regulator must be isolated (without earth connection) when fitted to the housing!

- **gn/ro** = green/red
- **ge** = yellow
- **ro** = red

---

**Safety circuit, Petrol engine**

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

- **bl** = blue
- **br** = brown
- **rt** = red
Electrical Wiring:
Diesel Engine Recoil Starter Version

1 Generator 12V 150W
2 Regulator
3 Socket

ge = yellow
ro = red
sw = black
ws = white
gnws = green-white

Two-Wheel Tractor agria 3400; 3400 KL
Electrical Wiring:
Diesel Engine E-Starter Version

1 Generator 12V 150W
2 Regulator
3 Socket
4 Fuse 20A (glass tube)
5 Electric starter 12V
6 Start switch
7 Battery charge control light, 12V 2W
8 Battery 12V 20Ah
9 Central connector for regulator
10 Work light terminal 12V 55W
   (snap-in receptacle diameter: 4 mm)

ge = yellow
ro = red
sw = black
ws = white
gnws = green-white
Designation of Parts:

Diesel Engine

Figure J

Engine L100

1. Fuel tank cap
2. Fuel tank
3. Fuel tap
4. Air filter
5. Preliminary air filter
6. Starter grip
7. Fan grille
8. Decompression lever
9. Exhaust
10. Electric switch
    (E-Start Version)
11. Engine oil filler opening, dip-stick
12. Engine oil drain plug
13. Engine oil filter
14. Decompression cable
15. Injection pump
16. Fuel drain plug
17. Engine type plate; engine I.D.
18. Ball-head, engine cover
21. Hex head bolt (E-Start Version)
22. Serrated washer (E-Start Version)
23. Panel (E-Start Version)
24. Distancer (E-Start Version)
25. Fuse holder (E-Start Version)
26. Glass fuse 20 amps (E-Start Version)
## Varnishes, Wear Parts

Agria Order No.

### Fuel Stabilizer for Petrol Engine

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>799 09</td>
<td>Fuel stabilizer pouch</td>
<td></td>
<td>5g</td>
</tr>
</tbody>
</table>

### Varnishes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Type</th>
<th>Size</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>712 98</td>
<td>Spray varnish red, RAL 2002</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, Robin engine</td>
</tr>
<tr>
<td>707 92</td>
<td>Spark plug, Bosch WR7CC</td>
</tr>
<tr>
<td>684 16</td>
<td>O-ring, oil dip-stick, Robin engine</td>
</tr>
<tr>
<td>009 05</td>
<td>O-ring 14x20x1.5, oil drain plug, Robin engine</td>
</tr>
<tr>
<td>415 008</td>
<td>Air filter element, Yanmar engine</td>
</tr>
<tr>
<td>415 010</td>
<td>Fuel filter, Yanmar engine</td>
</tr>
<tr>
<td>415 011</td>
<td>Fuel filter gasket, Yanmar engine</td>
</tr>
<tr>
<td>021 43</td>
<td>O-ring 14x1.6, Fuel tap, Yanmar engine</td>
</tr>
<tr>
<td>009 16</td>
<td>O-ring 16x22x1.5, oil drain plug, Yanmar engine</td>
</tr>
<tr>
<td>778 56</td>
<td>Glass fuse 20A (30x6.5mm)</td>
</tr>
<tr>
<td>760 10</td>
<td>Flat plug fuse 10A</td>
</tr>
<tr>
<td>009 16</td>
<td>O-ring 16x22x1.5, oil drain plug, gearbox</td>
</tr>
<tr>
<td>740 17</td>
<td>O-ring 17x21x1.5, oil dip-stick, gearbox</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>Base machine 3400</td>
</tr>
<tr>
<td>997 083</td>
<td>Implements for 3400</td>
</tr>
<tr>
<td>997 077</td>
<td>Robin Engine</td>
</tr>
<tr>
<td>997 147</td>
<td>Yanmar Engine</td>
</tr>
<tr>
<td>997 062</td>
<td>Cutter Bar</td>
</tr>
</tbody>
</table>
Lubrication Chart

Petrol Engine

1. 8 h
2. (25 h) 50 h

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

Diesel Engine

1. 8 h
2. (50 h) 200 h (400 h)

B = yearly and after each cleaning with a high-pressure cleaner
<table>
<thead>
<tr>
<th>Service Item</th>
<th>P</th>
<th>A</th>
<th>2</th>
<th>5</th>
<th>8</th>
<th>25</th>
<th>50</th>
<th>100</th>
<th>200</th>
<th>400</th>
<th>min. yearly</th>
<th>B</th>
<th>page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety circuit, check function</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine shut-off switch, check function</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check steering brake clutch</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>78</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check free play of levers</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>78</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check brake</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>79; 80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean fan grille</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>68; 73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check air-filter / clean air-filter insert</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>67; 71</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean surrounding parts of exhaust</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>69; 73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check engine oil level, refill, if necessary</td>
<td>1</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>66; 70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check transmission oil level</td>
<td>2</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>74</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Retighten the hex nuts on the hub adapters and the nuts on the wheel hubs</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>76</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tighten wheel bolts and nuts</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>76</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check or clean speed control linkages</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>69</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cleaning</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>81</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check bolts and nuts</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>81</td>
<td></td>
<td></td>
</tr>
<tr>
<td>First engine oil change,</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>subsequent oil changes</td>
<td></td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>First engine oil change,</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>subsequent oil changes</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean engine oil filter first time,</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>subsequent cleaning</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>First transmission oil change,</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>74</td>
<td></td>
<td></td>
</tr>
<tr>
<td>subsequent oil changes</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>74</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check battery</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>77</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean spark plug, adjust electrode gap</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>68; BM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check brake liners</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>79</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubricate differential hubs of twin-wheels</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean guide plates, cooling fins – earlier, if required</td>
<td>F</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>68; 73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replace spark plug</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>68</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replace air filter insert, earlier, if required</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean fuel filter</td>
<td>W</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>72</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replace air filter insert, earlier, if required</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>71</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replace fuel filter</td>
<td>W</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>72</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean carburetor and adjust</td>
<td>F</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean cylinder head</td>
<td>F</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean injection jet and check</td>
<td>F</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adjust valve lash</td>
<td>F</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubricate steering handle/trailer hitch</td>
<td>3</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubricate all gliding parts</td>
<td>4</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>81</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replace fuel hoses</td>
<td>W*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>69; 72</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Designation of Parts:

Petrol Engine

Figure K

Engine EH 34 D

1 Fuel tank cap
2 Fuel tank
3 Fuel tap, right
4 Air filter
5 Choke pull-knob
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
13 Engine ID no.
14 Speed control lever and linkages
15 Fuel tap, left

Legend for inspection and maintenance chart

■ = Petrol Engine only
◆ = Diesel Engine only
○ = only vers. with safety hillholder
P = Item 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
F = Maintenance should be carried out by your agria workshop
* = after 2 years
BM = see engine operating instructions
Conformity Declaration

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

Wir erklären, dass das Produkt
agria 3400; 3400 KL 95
Einachsschlepper

Déclarons que le produit
Motoculteur

Herewith declare that the product
Two-wheeled tractor

Verklaren dat het produkt
Eenassige tractor

mit allen einschlägigen Bestimmungen der EG-Maschinenrichtlinie 2006/42/EG in Übereinstimmung ist.

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

Conforms to all relevant specifications of the Directive on Machinery 2006/42/EC.

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

voldoet aan de desbetreffende bepalingen van de EG-machinerichtlijn 2006/42/EG.

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

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

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

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


Möckmühl, den 22.12.2010

Siegfried Arndt
Geschäftsführer
Directeur
Managing Director
Bedrijfsleider

Rudolf Tiggles
Leiter Entwicklung & Konstruktion
Responsable développement et études
Head, Research and Development
Hoofd ontwikkeling en constructie

Herr Tiggles ist bevollmächtigt die technischen Unterlagen zusammenzustellen.
Monsieur Tiggles est habilité à agencer la documentation technique.
Mr. Tiggles is authorized to sort the technical documents.
De heer Tiggles is gemachtigd om de technische documentatie op te stellen.
Anschrift/adresse/address/adres:
agria Werke GmbH, Bittelbronner Str. 42, D-74219 Möckmühl

Two-Wheel Tractor agria 3400; 3400 KL 95
Your local agria specialist dealer: