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

Please complete:

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

For name plate, refer to p5/fig. A/17. For Engine type and number, refer to p40/fig. D/1.

Please state these data when ordering spare parts to avoid wrong deliveries.

Only use original agria spare parts!

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

This delivery comprises:

- Operating instructions
- Tool carrier
- Tool kit

Symbols

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

Grizzly compact, comfort with Differential

Fig. A

Grizzly premium with Steering brake clutch

Fig. A

Fig. B
Designation of Parts

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

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

Lubricants and Anti-Corrosive Agents

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

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

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

Anti-corrosive agents are environmentally friendly and degrade fast.

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

Fuel

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

Do not add oil to petrol.

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

For further instructions refer to “Engine Preservation”.

Maintenance and Repair

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

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

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

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

**Warning**

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

**Due Use**

The tool carrier is a hand-controlled automatic single-axle machine which can power and/or pull various implements approved by the manufacturer. Areas of application are for such as turning over the ground, mowing grass and meadowland, snow clearance and sweeping (due use).

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

When the tool carrier is used on public roads, the local national road traffic rules must be observed, e.g. reflectors, lights.

The tool carrier is not intended for use with a trailer on public roads or as as a tractor unit without implements.

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

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

**General Instructions on Safety and Accident Prevention**

**Basic Rule:**

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

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

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

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

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

Only work in good light and visibility.

Operator’s clothes should fit tight. Avoid wearing loose fitting clothes. Wear solid shoes.

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

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

Careful with rotating tools – keep at a safe distance!
Beware of coasting tools. Before you start any maintenance or repair on them, wait until tools have come to a complete stop.
Foreign powered parts shear and crush!
Riding on the attachment during operation is not permitted.

Operation and Safety Devices

Before you start the engine

Become familiar with the devices and operating elements and their functions. Above all, learn how to turn the engine off quickly and safely in an emergency.
Ensure that all protective devices are mounted and positioned to provide protection.
With no implement mounted, make sure PTO-shaft is covered with the protective cap.

Starting the engine

Do not start engine in closed rooms. The carbon monoxide contained in the exhaust fume is extremely toxic when inhaled.
Before you start the engine set all operating elements to neutral or idling position.
For starting the engine, do not step in front of the machine and the implement.
Do not use assist-starting liquids when using electrical assist-starting devices (jumper cable). Danger of explosion.

Operation

Never leave the operator’s position at the steering handle while machine is at work.
Never adjust the operating handles during work – danger!

Working Area and Hazardous Area

The user is liable to third parties working within the machine’s working range.
Staying in hazardous area is not permitted.
Check the immediate surroundings of the machine before you start it. Watch out for children and animals.
Before you start work, clear the area from any foreign object. During operation, always watch out for further objects and remove them in time.
For operation in enclosed areas, ensure that a safety distance is kept to enclosures to prevent damage to tools.
1. Safety Instructions

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

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

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

In case of damage to the tool carrier or to the implement, immediately turn off the engine and have it repaired.

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

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

If possible, always work horizontally on the slope.

End of Operation

Never leave the machine unattended with the engine running.

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

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

Implements

Only mount implements with the engine and PTO switched off.

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

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

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

Beware of injuries while coupling implements.

Mount implements as specified and only couple at specified points.

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

Mowing Attachment

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

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

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

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

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

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

Weights

Always fit weights onto appropriate weight mounting devices.

Snow Clearing

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

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

Maintenance

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

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

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

Replace damaged cutting tools.

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

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

Keep machine and implement clean to avoid risk of fire.

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

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

Only use original agria spare parts. All other commercial spare parts must correspond to quality and technical requirements specified by agria.

Storage

It is not allowed to store the machine in rooms with open heating.

Never park the machine in closed rooms with fuel left in tank. Fuel vapours are hazardous.
1. Safety Instructions

Engine, Fuel, and Oil

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

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

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

Refill only with the engine switched off and cooled down.
Do not spill any fuel, use a proper filling device.
In case of fuel spillage, pull the tool carrier away from the spillage before you start the engine.
Make sure fuel is of specified quality.
Store fuel in approved cans only.
For safety reasons the petrol tank and fuel cap should be replaced regularly.
Store anti-corrosive agents and stabilizing liquids out of reach of children. If sickness and vomiting occur, see a doctor. If fuel has contacted eyes, rinse them thoroughly, avoid inhaling of vapours.

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

Be careful when draining hot oil, danger of burns.

Make sure oil is of specified quality. Storage is in approved cans only.
Dispose of oil, greases, and filters seperately and properly.

Tyres and Tyre Air Pressure

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

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

Regularly check tyre air pressure. Excessive pressure may cause bursts.
Use appropriate tyre air pressure when mounting weights or implements.
Re-tighten fastening screws of drive-wheels or check tightness when doing maintenance work.

Electrical System and Battery

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

Explanation of Warning Signs

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

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

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

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

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

Signs

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

Wear protective gloves.

Wear solid shoes.
# 2. Specifications

## Tool Carrier

### Dimensions:

<table>
<thead>
<tr>
<th>Tyre Configuration</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00-10 AS</td>
<td>530</td>
<td>740</td>
<td>255</td>
</tr>
<tr>
<td>4.50-10 AS</td>
<td>530</td>
<td>740</td>
<td>255</td>
</tr>
<tr>
<td>20x8.00-10</td>
<td>530</td>
<td>740</td>
<td>255</td>
</tr>
<tr>
<td>21x11.00-8</td>
<td>530</td>
<td>740</td>
<td>260</td>
</tr>
<tr>
<td>5.00-10 AS</td>
<td>560</td>
<td>740</td>
<td>255</td>
</tr>
<tr>
<td>20x8.00-10</td>
<td>560</td>
<td>740</td>
<td>255</td>
</tr>
<tr>
<td>21x11.00-8</td>
<td>560</td>
<td>740</td>
<td>260</td>
</tr>
</tbody>
</table>

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

Optionally:

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

Tyre air pressure at:

5.00-10 / 4.50-10 ...................... 1.5 bar
21x11.00 - 8............................ 0.8 bar
20x8.00 - 10............................. 0.8 bar

Drive-wheel attachment and application .................... see page 28 - 30.

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

**Tool Carrier Grizzly compact**

Type 5500 411, -412, -413, -414

**Engine:** ...... 4-stroke (petrol) EH 25D

**Gearbox:** .......... Mechanical gearbox, 4 forward and 4 reverse speeds, lockable differential, Safety hillholder

**Transmission oil**

filling quantity: ............ approx. 2.0 Ltr.

Transmission oil SAE 90 - API - GL5

(e.g. BP Energear Hypo)

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

<table>
<thead>
<tr>
<th></th>
<th>1.</th>
<th>2.</th>
<th>3.</th>
<th>4.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00-10 AS</td>
<td>2.3</td>
<td>3.5</td>
<td>4.5</td>
<td>7.1</td>
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<tr>
<td>4.50-10 AS</td>
<td>2.3</td>
<td>3.5</td>
<td>4.5</td>
<td>7.1</td>
</tr>
<tr>
<td>20x8.00-10 R</td>
<td>2.3</td>
<td>3.5</td>
<td>4.5</td>
<td>7.1</td>
</tr>
<tr>
<td>21x11.00-8 TG</td>
<td>2.4</td>
<td>3.7</td>
<td>4.7</td>
<td>7.4</td>
</tr>
</tbody>
</table>

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

**Steering handle:** ... rubber-supported,
................................. height adjustable,
side adjustable without tools

**Vibration acceleration value:**
on handlebar grip:
Double knife mowing drive $a_{hw} = 5.3$ m/s²
in accordance with EN 12733

**Weights:**

Empty weight (with fuel tank filled up):
without drive-wheels 5.00-10: 94.5 kg 110 kg
EH 25 D

**Tool Carrier Grizzly comfort**

Type 5500 421, -422

**Engine:** ...... 4-stroke (petrol) EH 34D

**Gearbox:** .......... Mechanical gearbox, 4 forward and 4 reverse speeds, lockable differential, Safety hillholder

**Transmission oil**

filling quantity: ............ approx. 2.0 Ltr.

Transmission oil SAE 90 - API - GL5

(e.g. BP Energear Hypo)

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

<table>
<thead>
<tr>
<th></th>
<th>1.</th>
<th>2.</th>
<th>3.</th>
<th>4.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00-10 AS</td>
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<td>1.9</td>
<td>3.25</td>
<td>7.1</td>
</tr>
<tr>
<td>4.50-10 AS</td>
<td>1.0</td>
<td>1.9</td>
<td>3.25</td>
<td>7.1</td>
</tr>
<tr>
<td>20x8.00-10 R</td>
<td>1.0</td>
<td>1.9</td>
<td>3.25</td>
<td>7.1</td>
</tr>
<tr>
<td>21x11.00-8 TG</td>
<td>1.05</td>
<td>2.0</td>
<td>3.4</td>
<td>7.4</td>
</tr>
</tbody>
</table>

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

**Steering handle:** ... rubber-supported,
................................. height adjustable,
side adjustable without tools

**Vibration acceleration value:**
on handlebar grip:
Double knife mowing drive $a_{hw} = 6.1$ m/s²
in accordance with EN 12733

**Weights:**

Empty weight (with fuel tank filled up):
without drive-wheels 5.00-10: 105.5 kg 123 kg
EH 34 D

---
## Wheel combination and Track Widths Table 5500 Grizzly compact, comfort

### Specifications

#### Wheel combination

- **B**

<table>
<thead>
<tr>
<th>Wheel (mm)</th>
<th>4.00-8 AS</th>
<th>16x6.50-8 AS</th>
<th>21x11.00-8 Terra</th>
<th>4.50-10 AS</th>
<th>5.00-10 AS</th>
<th>20x8.00-10 R</th>
<th>5.00-12 AS</th>
<th>23x8.50-12 AS</th>
<th>23x10.50-12 AS</th>
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<tr>
<td>400</td>
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<td>1120</td>
<td>1120</td>
<td>1200</td>
<td>1120</td>
<td>1090</td>
</tr>
</tbody>
</table>

#### Track Widths

- **Gf (10")** = 5517 531
- **Gf (12")** = 5917 541
- **G (10")** = 5917 011
- **G (12")** = 5917 021

---

**Note:** The above table and diagrams provide specifications for the 5500 Grizzly compact, comfort models, detailing wheel combinations and track widths. The figures indicate measurements in millimeters (mm) for various wheel sizes and track configurations.
2. Specifications

Carrier Tool Grizzly premium

Type 5500 341

Engine: .... 4-stroke (petrol) EH 34 D

Typ 5500 342

Engine: .... 4-stroke (petrol) EH 25 D

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

Transmission oil
filling quantity: ........... approx. 2,0 Ltr.

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

Travel Speeds (km/h):

\[
\begin{array}{c|cccc}
& 1. & 2. & 3. & 4. \\
\hline
5.00-10 AS & 1.0 & 1.9 & 3.25 & 7.1 \\
4.50-10 AS & 1.0 & 1.9 & 3.25 & 7.1 \\
20x8.00-10 R & 1.0 & 1.9 & 3.25 & 7.1 \\
21x11.00-8 TG & 1.05 & 2.0 & 3.4 & 7.4 \\
\end{array}
\]

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

Steering handle:
Anti-vibration steering handle bearing
(2-axle-steering handle bearing)
Licensee is Fraunhofer Gesellschaft
zur Förderung der angewandten
Forschung e.V. (German society for
the promotion of applied research).

............................ height-adjustable,
side adjustable without tools

Vibration acceleration value:
on handlebar grip:
Double knife mowing drive \( a_{hw} = 6.1 \, \text{m/s}^2 \)
in accordance with EN 12733

Weights:
Empty weight (with fuel tank filled up):

<table>
<thead>
<tr>
<th></th>
<th>EH 34 D</th>
<th>131.5 kg</th>
<th>149 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>without drive-wheels</td>
<td>5.00-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EH 25 D</td>
<td>129.5 kg</td>
<td>147 kg</td>
<td></td>
</tr>
</tbody>
</table>
2. Specifications

Wheel combination and Track Widths Table 5500 Grizzly premium

<table>
<thead>
<tr>
<th>B</th>
<th>60</th>
<th>60</th>
<th>90</th>
<th>90</th>
<th>220</th>
<th>220 + B1</th>
<th>220 + B5</th>
<th>Gf</th>
<th>Gf +90</th>
<th>Gf +90 +S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<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>
</tr>
<tr>
<td>2</td>
<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>
</tr>
<tr>
<td>3</td>
<td>21x11.00-8 Terra</td>
<td>960</td>
<td>685</td>
<td>410</td>
<td>960</td>
<td>685</td>
<td>410</td>
<td>1884</td>
<td>1100</td>
<td>430</td>
</tr>
<tr>
<td>4</td>
<td>4.50-10 AS</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>
</tr>
<tr>
<td>5</td>
<td>5.00-10 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>
</tr>
<tr>
<td>6</td>
<td>20x8.00-10 R</td>
<td>830</td>
<td>640</td>
<td>450</td>
<td>800</td>
<td>610</td>
<td>420</td>
<td>890</td>
<td>700</td>
<td>510</td>
</tr>
<tr>
<td>7</td>
<td>5.00-12 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>
</tr>
<tr>
<td>8</td>
<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>
</tr>
</tbody>
</table>

30 = 2519 011
60 = 5516 021
90 = 5519 031
220 = 5616 511
220A = 5519 011
V = 5916 511

S = 762 32
Gf (10") = 5517 531
Gf (12") = 5917 541
G (10") = 5917 011
G (12") = 5917 021
### 2. Specifications

#### Engine EH 25D

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Petrol Engine EH 25D</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Robin</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>EH 25D</td>
</tr>
<tr>
<td><strong>Version</strong></td>
<td>Fan-cooled 1-cylinder-4-stroke engine (petrol)</td>
</tr>
<tr>
<td><strong>Bore</strong></td>
<td>75 mm</td>
</tr>
<tr>
<td><strong>Stroke</strong></td>
<td>57 mm</td>
</tr>
<tr>
<td><strong>Cubic capacity</strong></td>
<td>251 ccm</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>5.9 kW (8 DIN-hp) at 3600 rpm</td>
</tr>
<tr>
<td><strong>Max torque</strong></td>
<td>16.7 Nm at 2400 rpm</td>
</tr>
<tr>
<td><strong>Spark plug</strong></td>
<td>BOSCH WR7AC, NGK BR6HS</td>
</tr>
<tr>
<td><strong>Ignition system</strong></td>
<td>Contactless electronic magnet ignition, ignition point is pre-set, radio remote screened according to VDE 0879</td>
</tr>
<tr>
<td><strong>Valve lash (engine cold)</strong></td>
<td>Intake: 0.08 - 0.11 mm, Outlet: 0.08 - 0.11 mm</td>
</tr>
<tr>
<td><strong>Starter</strong></td>
<td>Recoil starter</td>
</tr>
<tr>
<td><strong>Fuel</strong></td>
<td>Commercial petrol min. octane number 85 RON (refer to fuel recommendations)</td>
</tr>
<tr>
<td><strong>Fuel tank capacity</strong></td>
<td>approx. 5 l</td>
</tr>
<tr>
<td><strong>Air filter</strong></td>
<td>Dry filter element with foamed preliminary filter</td>
</tr>
<tr>
<td><strong>Carburetor</strong></td>
<td>Horizontal float carburetor</td>
</tr>
<tr>
<td><strong>Mixture control screw</strong></td>
<td>Basic setting 1/4 revs. open</td>
</tr>
<tr>
<td><strong>Rated speed</strong></td>
<td>3600 rpm</td>
</tr>
<tr>
<td><strong>Top no-load speed</strong></td>
<td>4000 rpm</td>
</tr>
<tr>
<td><strong>Idling speed</strong></td>
<td>1200 rpm</td>
</tr>
<tr>
<td><strong>Engine oil</strong></td>
<td>Multi-grade oil at ambient temperature: -15°C to +45°C: SAE 10W-40 API-SC (or higher)</td>
</tr>
<tr>
<td></td>
<td>-25°C to +15°C: SAE 5W-20 API-SC (or higher)</td>
</tr>
<tr>
<td><strong>Clutch</strong></td>
<td>5500411, -412 conical dry clutch</td>
</tr>
<tr>
<td></td>
<td>5500413, -414 single disc dry clutch</td>
</tr>
<tr>
<td><strong>Noise level</strong></td>
<td>with double knife mowing drive 125 cm</td>
</tr>
<tr>
<td></td>
<td>In accordance with EN 12733 appendix B: Noise level at operator’s ear: L_p = 88 dB(A)</td>
</tr>
<tr>
<td></td>
<td>In accordance with 2000/14/EG, appendix III, part B, chapter 32 lawn mower: Acoustic power level: L_w = 100,2 dB(A)</td>
</tr>
<tr>
<td><strong>Operability on Slopes</strong></td>
<td>Engine is suited for use on slopes with oil level at “max” = upper level mark: Continuous operation possible: up to 45° inclination (100%)</td>
</tr>
</tbody>
</table>
2. Specifications

**Engine EH 34D**

**Petrol Engine EH 34D**

- **Manufacturer:** Robin
- **Type:** EH 34D
- **Version:** Fan-cooled 1-cylinder-4-stroke engine (petrol)
- **Bore:** 84 mm
- **Stroke:** 61 mm
- **Cubic capacity:** 338 ccm
- **Output:** 8.1 kW (11 DIN-hp) at 3600 rpm
- **Max torque:** 24.1 Nm at 2500 rpm
- **Spark plug:** Bosch WR7CC, NGK BR6ES, Champion RN4
- **Space between electrodes:** 0.6–0.7 mm
- **Ignition system:** Contactless electronic magnet ignition, ignition point is pre-set, radio remote screened according to VDE 0879
- **Valve lash (engine cold):**
  - Intake: 0.10 mm
  - Outlet: 0.10 mm
- **Starter:** Recoil starter
- **Fuel:** Commercial petrol
  - Min. octane number 90 RON (refer to fuel recommendations)
- **Fuel tank capacity:**
  - Vers. Grizzly Comfort: approx. 6 l
  - Vers. Grizzly Premium: approx. 8 l

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

**Carburetor:** Horizontal float carburetor

- **Main jet:** 97.5
- **Idle jet:** 40

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

- **Rated speed:** 3600 rpm
- **Top no-load speed:** 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 5W-20 API-SC (or higher)

**Clutch:** Conical dry clutch

**Noise level:**

- with double knife mowing drive 125 cm
  - In accordance with EN 12733 appendix B:
    - Noise level at operator’s ear: L_p = 91 dB(A)
  - In accordance with 2000/14/EG, appendix III, part B, chapter 32 lawn mower:
    - Acoustic power level: L_W = 103 dB(A)

**Operability on Slopes:**

- Engine is suited for use on slopes (with oil level at “max” = upper level mark)
- Continuous operation possible:
  - up to 45° inclination (100%)
3. Devices and Operating Elements

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

The following attachments are available:

- Mowing attachments
- Sweeping attachments
- Snow dozers and snow casters
- Gravel and salt spreaders

Engine

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

Ignition System

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

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

Even after break-in period never use engine at higher speed than necessary for the work in hand.

High engine speed is harmful to any engine and considerably affects its durability. This applies especially for no load operation. Any overspeed (have the engine roar) can result in immediate damage.

Cooling System

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

Idling-speed

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

Air Filter

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

**Speed Control Lever**

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

**Engine-off-Switch**

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

“1” = operating position

“0” = engine-off position

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

**Safety Circuit**

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

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

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

⚠️ **Do not fasten safety lever.**

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

Clutch/Safety hillholder

Grizzly compact, comfort

The safety hillholder serves to stop on slopes or during shifting.

The clutch and the safety hillholder are operated via the hand lever (B/6).

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

- The pulled hand clutch lever can be locked with pawl (B/7).

- The safety hillholder is operated by further pulling the hand lever upwards.

Clutch

Grizzly premium

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

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

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

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

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

Gearbox

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

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

F-R Change

F/R drive is possible in all 4 gears.

1. Move hand lever (B/13) downwards (pawl B/12 is not locked) = the tool carrier travels forward.

2. Hand lever pulled = the machine travels reverse.

3. Centre position (pawl engaged) = the machine is in neutral.

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

Gear Shifting

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

There is no neutral position between these gears.

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

PTO Shifting

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

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

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

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

F-R Change
Move hand lever (B/11) forward
= the tool carrier travels forward.
Move hand lever backward
= the machine travels reverse.
Centre position
= the machine is in neutral.

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

Gear Shifting
The gears 1 – 2 – 3 – 4 are engaged with the shifting lever (B/10).
There is no neutral position between these gears.

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

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

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

PTO-shaft drive is connected

PTO-shaft drive is disconnected
3. Devices and Operating Elements
Grizzly compact/comfort

**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.

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/15).
- Unlock pawl (B/14).
- Slowly release lever while pressing the throttle.

**Disengaging the Differential Lock:**
- Pull lever for differential lock until pawl locks into place.
3. Devices and Operating Elements
Grizzly premium

**Single-Wheel Steering**

**Brake Clutch**

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

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

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

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

---

**Central Brake**

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

- **Central Brake**
  Pull hand lever (B/18) – brakes act on both drive-wheels.

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

- **Hand Brake**
  Pull hand lever (B/18) and lock with pawl (B/17) – both drive-wheels are blocked.

  To release hand brake, unlock pawl (B/17) and release lever (B/18) – brake is released.
3. Devices and Operating Elements

Steering Handle

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

Steering Handle Height Adjustment

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

Steering Handle Lateral Adjustment

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

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

Eyelet for Loading

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

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

Never walk or remain under moving loads. Danger!

Fixing Points

For towing away, recovering and tying down and to ensure a safe transport, use the fixing points at the connection flange and engine food guard.
3. Devices and Operating Elements

Drive-Wheels

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

The wheels can also be mounted either on their inner or outer sides for variable track widths (see track widths table, p17).

Grizzly compact, comfort

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. Retighten bolts and nuts in each maintenance.

Snow Chains

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

**Drive-Wheel Use**

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

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

**Strake Wheels**

Item 5517 521 for drive wheels 5.00-10

Order of mounting ① - ⑤

Please note:

① Wheel attachment bolt version B must be fit.

② Fit spring-lock washers between wheel bowl and flanges (centring)

③ Make sure that wheel carriers point to machine, when looked into travel direction (see fig.).

④ Block the tommy screw by positioning the spring.
**3. Devices and Operating Elements**

---

### Track-Width Adjuster on Twin Wheels

**Order of mounting** 1 - 5

Please note:

1. Using wheel attachment bolts version B.

3. Fit the spring lock washers between the wheel bowl and track-width adjuster (centering).

---

### Differential Hubs on Twin Wheels

**Order of mounting** 1 - 5

Please note:

1. Using wheel attachment bolts version B.

3. Fit the spring lock washers between the wheel bowl and track-width adjuster (centering).

---

### Lubrication

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

---

### Adjustment of the differential hub

The differential hubs are factory-set to differential effect, mounting of rigid position see fig.
Wheel Weights

It is possible to attach wheel weights to improve traction.

Attaching Wheel Weights

Item. No. .............................. 3221 011
for drive-wheels 5.00-10 AS; 4.50-50 AS

Grizzly compact, comfort

Attach the weights to the wheels with the hex head bolts, hex nuts and serrated washers.

Tighten the hex nuts well!

Hood

Remove Hood

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

Placing Hood

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

To facilitate the installation, you may apply some bio-grease onto the rubber cups.
3. Devices and Operating Elements

Coupling and Decoupling Implements

⚠️ Mount and dismount attachments only with engine switched off!

Coupling Attachments:

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

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

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

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

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

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

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

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

Commissioning

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

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

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

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

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

Be careful when dealing with fuel.

Fuel is easily inflammable and explosive in certain conditions!

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

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

- Check transmission oil level (see page 43)

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

Before you operate the engine the first time, fill in engine oil (see page 38)!
4. Commissioning and Operation

Starting Petrol Engine

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

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

Turning off Petrol Engine

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

2. Set engine-off-switch to “0”.

3. Close both fuel taps (C/3 or D/3 + D/15).


---

Engine-off-switch (B/1) also serves as emergency off-switch. If necessary, set switch to “0” to turn engine off.

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

Operations

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

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

2. Engage appropriate gear.

3. Wear individual protective ear plugs and solid shoes.

4. Switch on PTO.

5. Move F/R drive to position forward.

6. Release the brake.

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

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

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

1. Set speed control lever to idling position.

2. Pull hand clutch lever and hold.

3. Move F/R drive to position reverse.

4. Slowly release hand clutch lever while pressing the throttle.
4. Commissioning and Operation

Danger Zone

⚠️ Keep out of the machine’s danger zone during starts and operation.

Mowing on Slopes

⚠️ 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 attachment at work. If possible, always work across the slope.

Starting the Engine on Slopes

1. Keep the mowing drive and travelling drive in engaged mode; braking effect.

2. Move the hand clutch lever and safety shifting lever to “Start” position.

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

Please note:

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

When working on mowing knives, wear safety gloves!

### Engine

#### Check Oil Level

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

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

#### Changing Engine Oil

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

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

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

- For engine oil quality refer to “Specifications”.

---

Agria Tool Carrier 5500 Grizzly
5. Maintenance

Petrol engine

Dry Air Filter EH 25

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

Clean the air filter at least every 50 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.
Cleaning the Cooling System

Clogging of dirt and dust may occur to the cooling system. This may heat up and damage the engine.

- Regularly check the cooling-air screen (C/7 or D/7) and clean from dust and sucked-in plant trash.

- Remove the fan case at least once a year, preferably before the season starts and clean the cooling fins on cylinder, cylinder head, guide plates and cooling-air screen, both serving for good air circulation.

Exhaust

Regularly clean surrounding parts of muffler (C/9 or D/9) Free from grass, dirt and inflammable deposits.

⚠️ Danger of fire!

Fuel Hoses

Exchange after every 2 years, Exchange leaking fuel hoses immediately.

Cleaning the Fuel Strainer

Check the strainer on the fuel tap (C/3) at least once a year for water and other impurities.

- Close the fuel tap.
- Remove the fuel strainer and remove the impurities, replace if damaged.
- Rinse the strainer container in fuel.
- Then screw it back on correctly, to avoid fuel leakage.
5. Maintenance  Petrol engine

Cleaning the Spark Plug and Readjusting the Electrode Gap

**Grizzly Comfort**
The spark plug (C/8) is arranged underneath the fuel tank:
- remove cover (3).

**Grizzly Premium EH 34**
The spark plug (C/8) is arranged underneath the fuel tank:
1. Loosen the 4 fastening nuts (4) on the tank console and open approx. 2 turn.
2. Slide fuel tank to the air filter side.
3. Slide tank back to exhaust side.
4. Tighten fastening nuts.

After every **100** operating hours or ignition problems:
- Clean the electrodes on the spark plug from dust and dirt using a wire brush.
- Check spark plug gap and, if necessary, readjust it to 0,6 - 0,7 mm.

Exchange the spark plug at approx. **200-hour intervals**.
5. Maintenance  

Petrol engine

Cleaning the Cylinder Head

After every 400 hours of operation take off cylinder head and remove carbon deposits on the cylinder head, piston crown and valves with a steel brush. Afterwards, clean with soft brush. Exchange the gasket and reassemble it to the cylinder head. Tighten cylinder head screws in turn at 25 Nm.

Readjusting the Valve Lash

After every 400 hours of operation, re-adjust the valve lash. Intake and outlet valve are at 0.08–0.11 mm when the engine is cold.

Cleaning the carburettor

Clean the carburettor every 400 operation hours and then readjust the idle speed.

Idle speed adjusting

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

At low speeds, the engine is supposed to continue running smoothly when the speed control lever is at a stop in idling. Adjust the engine speed while the engine is still warm from operation. For this purpose, readjust the limiter screw (2) and the mix control screw (1) for idling speed. Then turn the attachment or adjusting screw to adjust the throttle cable for no play. (For idling speeds refer to “Specifications”).

Governor

For proper function of the engine speed governor and to adjust the upper idling speed, the governor spring has to be in the appropriate hole, see fig.

Any changes to the position of the spring increases the risk of accident and will render the warranty and type approval null and void!

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

**Machine**

**Gearbox**

Check transmission oil level before you take up operation and after every 50 operating hours (oil dipstick (A/10)).

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

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

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

1. Clean the oil filler plug (A/10) and the drain plug (A/13) as well as the surrounding parts.
2. Change oil, collect the old oil in a proper container and dispose of properly.

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

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

**Drive wheels**

- When commissioning the mower and each time you change wheels, check and tighten wheel bolts and nuts after the first 2 operating hours with 100 Nm; Proceed likewise when doing maintenance work.

- Retighten the wheel flange locking nuts (A/12) after the first 2 operating hours, then every 50 operating hours with 100 Nm.

- Check the tyre air pressure regularly. For smooth driving, make sure that there is the same pressure in both tyres.
5. Maintenance

Steering Handle Locking Bolt

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

Grizzly compact, comfort

Steering Handle Central Mounting

Re-tighten adjustment nut (3) with 20 Nm after the first 4 operating hours, then after every 50 operating hours.

Steering Handle Pendulum Stop

This steering handle bearing provides optimum dampening, when the two stop buffers are adjusted to a play of \( A = 0.5 \) mm (in position zero, with no load on steering handle) between stop plate and buffers.

However, the pendulum stop can also be set to provide a rigid steering handle (without play).

Adjustment:

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

Grizzly premium

Steering Handle Central Mounting

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

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

Steering Handle Pendulum Stop

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

Adjustment:

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

Safety Circuit

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

- With clutch engaged and upon release of safety lever (B/4), the engine must automatically come to a stop.

- Check electric conductors and connections for good condition, exchange, if necessary.

→agria - Service←

Engine-Off-Switch

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

- With the engine-off-switch in position „0“, the engine must come to a stop.

- Check electric conductors and connections for good condition.

→agria - Service←
5. Maintenance

Adjustments on Hand Levers

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

**Clutch:**

- $X = 3 - 5 \text{ mm}$ (Clutch play)
- ! = The Bowden cable must be placed in the hand lever support on top position!
- ! = The Bowden cable must be placed in the hand lever support on bottom position!

**Differential gear, Central brake, Steering brake:**

- $X = 3 - 5 \text{ mm}$
- ! = The Bowden cable must be placed in the hand lever support on bottom position!

**Hand lever for F/R shifting:**

Adjust Bowden cable in such a way that transmission is set to neutral when pawl is locked.

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

**Adjustment:**

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

Safety Hillholder

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

Adjustment

1. Adjust clutch.
2. Place the clutch hand lever on position "0" (pawl locked).
3. Loosen the hex head nuts (1) on both sides.
4. 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.
5. Fasten the hex head nuts (1) on both sides.
6. Check the brake function, readjust if necessary.
7. Check the brake free wheel.
   - F-R shifter on "idle"
   - Clutch on "0"
   - The brake disc must turn easily by hand, readjust if necessary.

Check brake lining

Every 100 operating hours check the brake linings (4 + 5) on wear and tear (visual check). The linings should have a min. thickness of 3 mm, replace the linings if necessary.

Replace brake lining

- Loosen and unscrew the hex head nut (1) on both sides.
- Dismount the angles (2) with discs and brake housing.
- Replace the brake linings (4 + 5).
- Mount the park brake in the opposite order.
- Adjust.
5. Maintenance

General Maintenance

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

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

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

Cleaning

Engine

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

Machine

After each cleaning (spraying with water, especially with air-compressed water jets) lubricate all lubrication points, oil and let tool carrier run for a short time to press water out.

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

Storage

For longer periods of no operation:

a) Clean thoroughly
   Repair paint coat

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

c) Engine preservation

- Drain the fuel completely from the system or fill the fuel tank and add stabilisator (agria No. 799 09) to the fuel tank
- Observe instructions.
   Operate the engine for approx. 1 minute.

- Change the engine oil.

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

- Reinstall the spark plug and set the valves on compression using the recoil starter (Pull the starter rope until you feel resistance), the valves are closed.

- Crank the engine slowly at 2–3 week intervals (spark plug connector is removed!) and set the valves on compression again.

d) Drive-wheels

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

e) Clutch

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

f) Storing the machine

To avoid severe corrosion:

- to preserve the machine from atmospheric influences

Do not park the machine in:
- humid rooms
- in rooms where fertilizer is stored
- in stables or adjacent rooms.

g) Protect machine

with cloth or a similar cover.
Electric Circuit

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

bl = blue
br = brown
rt = red
### 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>
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<td>Petrol Engine:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Engine does not start</td>
<td>- Spark plug connector not connected</td>
<td>Connect spark plug connector</td>
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<tr>
<td></td>
<td>- Spark plug connector not connected</td>
<td>Set spark plug connector</td>
<td>34</td>
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<tr>
<td></td>
<td>- Engine is not in the right position</td>
<td>Set Choke to right position</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>- Safety circuit is not set to &quot;0&quot;</td>
<td>Set engine-off-switch to &quot;1&quot;</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>- Fuel line clogged</td>
<td>Clean fuel line</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>- Defective spark plug</td>
<td>Clean, adjust or exchange spark plug and</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td>- Engine is too much fuel</td>
<td>Dry and adjust spark plug and start at full throttle</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Engine-off-line defective</td>
<td>Check line and connections</td>
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<tr>
<td></td>
<td>- Inleaked air due to loose carburetor and suction line</td>
<td>Tighten fastening screws</td>
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<td></td>
<td>- Engine-off-line defective</td>
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<td>- Engine-off-line defective</td>
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<tr>
<td></td>
<td>- Engine-off-line defective</td>
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<tr>
<td>Misfirings in engine</td>
<td>- Engine running in CHOKE range</td>
<td>Set CHOKE-lever to operating position</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>- Loose ignition cable</td>
<td>Fix ignition cable retaining device, fit connector tightly on ignition cable, fit connector tightly on spark plug</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Clogged fuel line or poor fuel</td>
<td>Clean fuel line, fill fresh fuel</td>
<td>40, 33</td>
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<tr>
<td></td>
<td>- Vent opening in fuel tank cap clogged</td>
<td>Exchange fuel tank cap</td>
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<tr>
<td></td>
<td>- Water or dirt in fuel system</td>
<td>Drain fuel and fill fresh fuel</td>
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<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter or exchange</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>*</td>
</tr>
<tr>
<td>Excessive temperature</td>
<td>- Low engine oil level</td>
<td>Refill oil immediately</td>
<td>38</td>
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<tr>
<td>in engine</td>
<td>- Impaired cooling</td>
<td>Clean cooling fan grid, clean internal cooling ribs</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>39</td>
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<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>*</td>
</tr>
<tr>
<td>Misfirings in engine</td>
<td>- Short firing intervals</td>
<td>Adjust spark plug</td>
<td>41</td>
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<tr>
<td>at high speeds</td>
<td>- Incorrect idle mixture</td>
<td>Adjust carburetor</td>
<td>*</td>
</tr>
<tr>
<td>Engine frequently</td>
<td>- Firing interval too long, defective spark plug</td>
<td>Adjust or replace spark plug</td>
<td>41</td>
</tr>
<tr>
<td>stalls in idle</td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>39</td>
</tr>
</tbody>
</table>
### 6. Troubleshooting

<table>
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<th>Problem</th>
<th>Possible cause</th>
<th>Possible solution</th>
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<td>Engine does not run smoothly</td>
<td>- Speed control linkages clogged or jammed</td>
<td>Clean speed control linkages</td>
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<tr>
<td>Engine does not stop when set to stop</td>
<td>- Defective engine-stop-line, earth missing</td>
<td>Check line and connection, check earth contact</td>
<td></td>
</tr>
<tr>
<td>Engine output too low</td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>39</td>
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<tr>
<td></td>
<td>- Loose cylinder head or damaged sealing</td>
<td>Tighten cylinder head, exchange sealing</td>
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</tr>
<tr>
<td></td>
<td>- Poor compression</td>
<td>Have engine checked</td>
<td></td>
</tr>
</tbody>
</table>

### Machine in General:

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Possible solution</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clutch does not decouple</td>
<td>- Hand clutch lever misadjusted</td>
<td>Adjust clutch free play</td>
<td>47</td>
</tr>
<tr>
<td>Clutch slips</td>
<td>- Hand clutch lever misadjusted</td>
<td>Adjust clutch free play</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>- Worn out clutch</td>
<td>Exchange clutch disc</td>
<td></td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>- Loosened screws</td>
<td>Tighten fastening screws</td>
<td>49</td>
</tr>
</tbody>
</table>

* = For this purpose contact your agria workshop.


## Varnishes and Wear Parts

### agria Order No.

#### Fuel stabilizer

799 09 Fuel stabilizer  
**pouch**  
5 g

#### Varnishes

181 03 Spray varnish birch-green  
**spray tin**  
400 ml

712 98 Spray varnish red, RAL 2002  
**spray tin**  
400 ml

509 68 Spray varnish black  
**spray tin**  
400 ml

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

559 94 Glue (medium) LOCTITE 242  
**bottle**  
50 ml

559 95 Glue (strong) LOCTITE 270  
**bottle**  
50 ml

559 96 Glue (ultra strong) LOCTITE 638  
**bottle**  
50 ml

559 97 Surface sealing (liquid) LOCTITE 573  
**tube**  
250 ml

#### Wear Parts

**Engine**

707 91 Air filter set (paper element + preliminary filter)

671 87 Spark plug, Bosch WR7AC  
**for EH 25D**

707 92 Spark plug, Bosch WR7CC  
**for EH 34D**

684 16 Sealing washer (engine oil dip-stick)

009 05 Sealing washer 14 x 20 x 1.5 (engine oil drain screw)

**Transmission**

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

#### Emergency Tyre Repair

713 13 Tyre repair gel Terra-S  
**bottle**  
1 l

#### Lists of Spare Parts

997 024 Tool carrier 5500

997 083 Attachments for 3400/5500

997 077 Robin Engines
Fig. C

**Grizzly compact, premium Engine EH 25D**

**Grizzly comfort EH 34D**

1. Fuel tank cap
2. Fuel tank
3. Fuel tap
4. Air filter
5. Choke pull-out knob
6. Starter handle
7. Recoil starter/cooling-air screen
8. Spark plug
9. Exhaust
10. Engine oil filler neck with oil dip-stick
11. Engine type no.
12. Engine oil drain plug
14. Speed control lever and linkages
Designation of Parts: Petrol Engine

Fig. C

Grizzly compact  
Grizzly premium  
Motor EH 34  
Engine EH 25 D
B = yearly and always after cleaning with a high-pressure cleaner
<table>
<thead>
<tr>
<th>Task</th>
<th>P</th>
<th>A</th>
<th>2</th>
<th>4</th>
<th>8</th>
<th>25</th>
<th>50</th>
<th>100</th>
<th>200</th>
<th>400</th>
<th>min. every 3 months</th>
<th>min. yearly</th>
<th>B</th>
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<tbody>
<tr>
<td>Check bolts and nuts</td>
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<td>Clean surrounding parts of exhaust</td>
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<td>Check air-filter</td>
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<td>Clean cooling-screen</td>
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<td>Check steering handle pendulum stop</td>
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<td>Check safety circuit function</td>
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<td>Check engine shut-off switch function</td>
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<td>Check clearance of hand levers</td>
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<tr>
<td>Check function of safety hillholder</td>
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<td>Tighten wheel bolts and nuts</td>
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<td>Tighten steering handle central clamping</td>
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<td>First engine oil change, subsequent oil changes</td>
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<td>Lubricate all sliding parts</td>
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<td>First transmission oil change, subsequent changes</td>
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<td>Lubricate differential hubs of twin-wheels</td>
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<td>Clean spark plug, adjust electrode gap</td>
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<td>Check brake liners of safety hillholder</td>
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<td>Clean guide plates, cooling fins – earlier, if required</td>
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<td>Replace spark plug</td>
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<td>Replace air filter insert, earlier, if required</td>
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<td>Clean carburetor and adjust idle speed</td>
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<td>Clean cylinder head</td>
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<td>Adjust valve clearance</td>
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<td>Grease steering handle locking bolt</td>
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<td>Replace fuel hoses</td>
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<td>Clean fuel strainer</td>
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P = Item in lubrication chart
A = Each time before you take up operation
B = After each cleaning, in particular with high-pressure cleaner
K = Checks and maintenance to be executed by operator
W = Maintenance to be executed by professional workshop
F = Maintenance should be carried out by your agria workshop
* = after 2 years
Designation of Parts: Petrol Engine

Fig. D

Grizzly premium

EH 34D

1 Fuel tank cap
2 Fuel tank
3 Fuel tap
4 Air filter
5 Choke pull-out knob
6 Starter handle
7 Recoil starter/cooling-air screen
8 Spark plug
9 Exhaust
10 Engine oil filler neck with oil dip-stick
11 Engine type no.
12 Engine oil drain plug
13 Engine ID no.
14 Speed control lever and linkages
15 Fuel tap
Designation of Parts: Petrol Engine

Fig. D

Grizzly premium

Motor EH 34 D

Petrol Engine
Declaration Conformity

EG-Konformitätserklärung
EC Declaration of Conformity

Wir erklären, dass das Produkt

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

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

5500 341, -342, -411, -412, -413, -414, -421, -422, -641, -642

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:

DIN EN ISO 14121-1

Möckmühl, den 11.11.2011

Siegfried Arndt
Geschäftsführer
Directeur
Managing Director
Bedrijfsleider

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

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

Anschrift/adresse/address/adresse:
agria Werke GmbH, Bittelbronner Str. 42, D-74219 Möckmühl
Your local agria specialist dealer: