Operating Instructions for
Ride-on Brushcutter
Type 4700 Sitting Bull

- 2 Cyl. Robin EH64
- E-Start

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

Operating Instructions No. 998 773-B 09.04
Please complete:

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<tr>
<th>Machine Type No.:</th>
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<td>Engine Type:</td>
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For name plate, refer to page 3/fig. B/26
For engine type and number, refer to page 58/fig. C/3
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
- Ride-on Brushcutter
- Tool kit

→ **agria - Service←**
= contact Your agria-workshop

Marking of the position of the parts is necessary before dismantling. Pay attention to the marking when re-assembling.

**Symbols**

- Warning – danger
- Important Information
- Choke
- Engine
- Engine Start
- Engine Stop
- Engine speed
- Engine oil level
- Transmission oil
- Fuel
- Fuel filter
- Forward
- Reverse
- Fast
- Slow
- Engage cutter element
- Disengage cutter element
- Differential lock
- Park brake
- Closed (locked)
- Open (Unlocked)
- Tyre air pressure
- infinitely linear
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Ride-on Brushcutter Sitting Bull 3
Designation of Parts

Fig. A

Fig. B
Designation of Parts

Fig. A:
1. Steering wheel
2. Roll-over bar
3. Working hours counter/tachometer
4. Choke
5. Speed control lever
6. Engine oil pressure indicator
7. Ignition starting switch
8. Socket to DIN 9680-A
9. Protective Cloth at rear
10. Mower-cutter element
11. Protective Cloth in front

Fig. B:
20. Coasting Operation (Bypass)
21. Engine
22. Differential Lock
23. Driver’s seat
24. Drive Pedal reverse
25. Drive Pedal forward
27. Adjust cutting height
28. Park Brake
29. Cutting gear switch
30. Fuel tank inlet
31. Engine Cover
32. Main driving switch/safety device
Recommendations

**Lubricants and Anti-Corrosive Agents**

Use the specified lubricants for engine and transmission (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 anti-corrosive 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 kind to the environment and degrade fast.

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

**Fuel**

This engine runs smoothly on commercial **unleaded regular 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 residues 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 in these operating instructions which affect your safety. Pass all safety instructions to other users and operators.

Due Use

The ride-on brushcutter agria Sitting Bull has been designed for mowing use in farming and forestry as well as grass maintenance (due use).

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

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

Any unauthorized changes to the tool carrier 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 latest traffic code applies.

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

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

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

Only work in good light and visibility.

Operator’s clothes should fit tightly. Avoid wearing loosely fitting clothes. Wear solid shoes.

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

When transporting the tool carrier on vehicles or trailers outside the area to be cultivated, ensure that the engine is shut off.
1. Safety Instructions

Careful with rotating tools – keep at a safe distance!

Due to its centrifugal mass, the mowing knife can follow up. During that time, do not stay too close to the mower housing. Only when the mowing knife is completely standing still and the spark plug connector has been withdrawn, works on the ride-on brushcutter are permitted.

Foreign powered parts shear and squeeze!

Riding on the machine during operation is not permitted.

Match operating speed to conditions.

Do not change settings of governor. High engine speed increases risk of accidents.

Working Area and Danger Zone

The user is liable to third parties working within the ride-on brushcutter’s working range.

Staying in the danger zone is not permitted.

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.

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.

Be careful when mowing; ensure that the mowing knives does not seize obstacles such as border stones, enclosures, roots etc.

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 shut off the engine quickly and safely in an emergency situation.

Ensure that all protective devices are mounted and positioned to provide protection.

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.

Be careful upon starting and during mowing; do not come directly close to the cutting section with your hands or feet.

When starting, it is not permitted to bring the ride-on brushcutter into an upright position or to tilt it.

Only start the engine from the driving position. The engine may not be started by short-circuiting the electrical
connections in the starter, as the machine could otherwise immediately be set in motion.

Do not use assist-starting liquids when using electrical assist-starting devices (jumper cable). Danger of explosion.

**Operation**

Never leave the operator's position while the ride-on brushcutter is at work.

The carrying of additional persons is not allowed.

If clogging occurs in the cutting section, shut off the engine, withdraw the ignition key and clean the cutting section with an appropriate tool.

In case of damage to the ride-on brushcutter, immediately shut off the engine and have it repaired.

Should the machine start to vibrate in an unusually strong manner, an immediate inspection is necessary.

If steering causes problems, immediately bring the ride-on brushcutter to a halt and shut it off. Have the malfunction eliminated without delay.

Driving speed must always be adjusted to suit the surrounding conditions. When driving uphill or downhill and driving across a slope avoid sudden turns. When driving in curves switch off the differential lock.

If possible, always work across the slope.

Pay careful attention to hills, dips and other unforeseen dangers.

Stop the cutting gear before crossing surfaces other than grass.

Never operate machines with damaged or unfitted safety protection gear.

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**End of Operation**

Never leave the ride-on brushcutter unattended with the engine running.

Before you leave the ride-on brushcutter, shut off the engine, close the fuel cocks and secure against rolling away.

Before you leave the ride-on brush cutter fully lower the cutting gear.

Secure ride-on brushcutter against unauthorized use, remove the ignition key.

**Mowing Equipment**

In cases of improper operation the sharp blades of the flail knives pose a considerable danger of injury. Wear protective gloves when working on the flail knives.

When changing the flail knives ensure that the screwing movement leads away from the blade edges.

Protective glasses and protective gloves must be worn when sharpening the flail knives.
1. Safety Instructions

Maintenance

Never carry out any maintenance or cleaning with the engine running.
After switching off the drive, the ride-on brushcutter may continue to coast due to its centrifugal mass. Do not go too near to the ride-on brushcutter during this time. Only when it has come to a complete standstill can it be worked upon.

Before you work on the engine, always remove spark plug connector.
Check regularly and, if necessary, replace all protecting devices and tools subject to wear and tear.
Replace damaged cutting tools.
Observe maintenance intervals of the flail knives.
Always wear safety gloves and use proper tools when exchanging the cutter sections.

Repair work, such as welding, grinding, drilling etc., is not allowed to be carried out on load-bearing, safety-critical parts.
Keep ride-on brushcutter 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. All other commercial spare parts must correspond to quality and technical requirements specified by agria.

Storage

It is not allowed to store the ride-on brushcutter in rooms with open heating.
Never park the ride-on brushcutter 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 pipe immediately.
Be careful when handling 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 shut off and cooled down.
Do not spill any fuel, use a proper filling device (e.g. funnel).
In case of fuel-spillage, pull the ride-on brushcutter away from the spillage before you start the engine.
Make sure fuel is of specified quality.
Store fuel in approved cans only.
Liquids leaking under high pressure, e.g. fuel, can penetrate the skin and cause severe injuries. Immediately see a doctor.
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.
1. Safety Instructions

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

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

Tyres and Tyre Air Pressure

When working on wheels, 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.

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

Electrical System and Battery

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

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.

Be careful when handling battery acid!

Only use specified fuses. Stronger fuses will destroy the electrical system – danger of fire.

Always cover positive pole with specified cover or terminal cap.

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

Explanation of Warning Signs

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

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.

Do not open the safety guard.

The carrying of other persons is not allowed.

Avoid slopes where the mower could slip or fall over.

Before leaving the machine secure it with chocks from rolling away.

Signs

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

Wear protective gloves.
2. Specifications

Machine

Dimensions (mm)

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<tr>
<td>DS</td>
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<tr>
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2. Specifications

**Driving axle:** Hydrostat gear

**Driving speeds:**
- Forward: 0 - 8.0 km/h
- Reverse: 0 - 6.0 km/h

**Oil for hydrostat:**
Multi-purpose oil
SAE 20W-50 API-SE/SF ... (or higher)
Filling volume: 3.6 l

**Intermediate gear:** Angular gear
Transmission oil: SAE 80W90 GL5
Filling volume: 0.18 l

**Steering:** Toothed quadrant

**Tyres:**
- Rear: 23x8.5-12 wide track field tyre
- Front: 16x6.50-8 wide track field tyre
Tyre air pressure: 0.8 - 1.3 bar

**Noise level:**
Noise level at operator’s ear: $L_{pA} = 84.6$ dB
In accordance with EN 836 appendix B and EN ISO 3744
Acoustic power level: $L_{wA} = 104.6$ dB
In accordance with EN 836 and EN ISO 11201

**Vibration acceleration value:**
Hand-arm vibration on the steering wheel: $a_{eqSum} = 1.52 \text{ m/s}^2$
In accordance with EN 836 and EN 1033

Full body vibration: $a_{hw} = 1.3 \text{ m/s}^2$
In accordance with EN 836 and EN 1032

**Weight:**
Empty weight (with fuel tank filled up): 470 kg

**Cutter unit:** Flail mower

Working width: 920 mm
Flail knives: 48 piece

**Working width:** 920 mm
Flail knives: 48 piece

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14 Ride-on Brushcutter Sitting Bull
2. Specifications

Petrol Engine

Manufacturer: ....................... ROBIN
Type: .................... EH64DS .... EH65DS
Bore: ..................... 80 mm ...... 80 mm
Stroke: ................... 65 mm ....... 65 mm
Cubic capacity: 653 ccm .... 653 ccm
Output: ................... 15.3 kW ...... 16.4 kW at ..................... 3600 rpm .... 3600 rpm
Max torque: ...... 44.3 Nm .... 45.6 Nm at ..................... 2200 rpm .... 2500 rpm

Construction: ............ Fan-air-cooled Spark ignition engine with overhead valves, V-mounted double-cylinder and horizontal crankshaft

Spark plug: BOSCH WR7DC (759 99) ......................... NGK BPR6ES ....................... CHAMPION N9YC
Spark plug gap 0.6 - 0.7 mm

Ignition:
Electr. magnetic ignition, contactless
Air gap ....................... 0.3 - 0.5 mm
Radio remote screened .......... as per VDE 0879

Valve clearance (engine cold):
Intake and outlet ..... 0.085 - 0.115 mm

Electrics:
Electrical starter ....................... 12V
Battery ......................... 12 V 20 Ah
Generator .......................... 12 V 15 A

Fuel: .............................................
Commercial ...................... unleaded regular petrol
min. octane number 85 - 91 RON
(refer to fuel recommendations)

Fuel tank capacity: ........ approx. 18 l
Fuel consumption: ........ 312 g/kWh
Fuel filter: ....................... fuel-online
Air filter: ............... Dry filter element with foamed preliminary filter
optional: Air filter-Prefractionator (Kit 68635)

Carburettor: ....................... Horizontally float carburettor

Rated speed: ..................... 3600 rpm
Top no-load speed: .......... 3800 rpm
Idling speed: ..................... 1750 rpm

Engine oil: ...... Filling quantity approx. 1.55 l Multi-grade oil
at ambient temperature -15° bis +45°C: SAE 10W-40 API-SE/SF (or higher)

Oil filter ......................... Filter cartridge

Operability on Slopes:
Engine is suited for use on slopes (with oil level at “max” = upper level mark) possible up to 20° inclination (37%)

Tightening:
Cylinder head bolts ......... 34 - 41 Nm
Fan wheel nut ..................... 84 - 93 Nm
3. Devices and Operating Elements

The ride-on brushcutter agria Sitting Bull is suited for use in farming and forestry as well as grass maintenance, such as for example the mowing of grass and meadows.

Engine

- The four-stroke petrol engine runs on commercial unleaded petrol (refer to fuel recommendations page 6).

Ignition System

The engine is equipped with a contactless 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

The 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. 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

Safety circuit
The safety circuit is integrated into the driver’s seat, i.e. the driver must be seated in the driver’s seat for starting and for operating the machine.
If the operator leaves the driver's seat the engine cuts out.

Ignition-Start Switch
0 = Ignition off - engine shut off
I = Ignition on - operation position
= Start position - when releasing the key this automatically returns to the "I" position
- Never operate the electrical starter for longer than 5 seconds.
- Never turn ignition key to "START" when the engine is running.
- If the oil indicator light is not lit when the engine is shut down, the light, oil pressure switch or electrical circuit could be faulty - Eliminate the cause!

Engine Oil Pressure Warning Indicator
The oil pressure warning light is illuminated when:
- the ignition key is at "I" and the engine is shut off
- the engine is running and the oil pressure is too low - turn the engine off immediately and correct the cause.
Possible causes:
- Engine oil level too low - top up engine oil
- Engine oil filter is dirty -replace
- incorrect engine oil quality (viscosity) - change engine oil
- Engine temperature too high - ventilator grid dirty

The warning light is also an indicator that the ignition is on when the engine is shut down.
3. Devices and Operating Elements

**Speed Control Lever**

Engine speed from min. = idle to max. = full throttle stepless, adjustable as required.

**Choke**

If the engine is cold or the surrounding temperature is low, pull CHOKE knob (starter flap closed)

If the engine is warm or the surrounding temperature is high, pull the CHOKE knob halfway out or leave it in the operating position.

- \[\downarrow - \text{ CHOKE (starter flap closed) }\]
- \[\uparrow - \text{ operating position (starter flap open) }\]

**Park Brake**

Park brake open

Park brake closed

**Do not drive and apply the brake at the same time!**

In all cases release the brake before starting to drive, because otherwise damage through excess pressure or damage to the brakes are possible!

**On leaving the machine engage the park brake!**
3. Devices and Operating Elements

Driving Control
Driving speed may be adjusted steplessly through the pedals.

- forward with the right Pedal B/25
- reverse with the left Pedal B/24

The speed increases the more that the pedals are depressed. When the pedals are released they go automatically to the 0 position.

Coasting Operation (Bypass)
In order to push or to tow the vehicle away without the engine running, set the hydraulic gear to "pushing operation".

Hydraulic operation

Pushing operation (towing, pushing without the engine running)

Prior to starting the works, check shifting position!

Coasting operation or towing up to max. 4 km/h. Trailing is not permitted!
3. Devices and Operating Elements

**Differential Gear**
Differential can be locked in severe conditions to improve traction. Only switch the differential lock on and off during driving movement.

- = Differential gear ON
- = Differential gear OFF

Keep differential locked only as long as necessary.

**Cutting Height Adjustment**
1 = 20 mm
2 = 40 mm
3 = 60 mm
4 = 80 mm

4 = topmost position
= Driving position

Only operate the lever from the round grip - Danger of crushing on the rocker arm. On leaving the machine lower the cutting gear to position 1!

**Cutting gear switch**
Cutting gear engaged

Cutting gear disengaged

On disengaging the cutting gear is braked down to a standstill by the integrated cutter brake.
3. Devices and Operating Elements

Driver’s Seat Adjustment

1. Adjustment back and forward
2. Adjustment of the arms
3. Accommodation to the driver's weight dependent on construction with an adjusting lever or adjusting wheel

Roll-Over Bar

Provided that working conditions allow, the roll-over bar must always be screwed down in the protective position.

A. The roll-over bar protective position is the upper position.

The roll-over bar can also be adjusted to a lower position

B. - a non-protective position - if working conditions permit this in order to prevent damage in agricultural areas.

- Unscrew the retaining screws on both sides
- Push the bar down and introduce the retaining screws into the locking drill holes
- Re-screw in the retaining screws and tighten them up

Only use original special retaining screws!

Follow the same order for adjustment of the roll-over bar into the protective position, however in this case fix the roll-over bar into the locking drill holes for the upper position.
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”).

**Wheel Attachment Bolts**
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.

**Engine Cover**

**Removal**
- Release screw (1)
- Pull away the engine casing vertically

**Replacement**
- Place the engine casing with the rubber sockets at the front and rear on the crown plugs
- Lock the crown sockets into the crown lugs through a light pressure on the front and the rear of the engine casing
- Screw in the screw (1) once again and tighten
3. Devices and Operating Elements

Fuel taps

Under the fuel tank are 2 fuel taps (C/13).

Battery

There is no dry pre-charging of batteries on the new machines. Therefore the battery (C/10) must be filled with accumulator acid and charged (charging current =1/10 of battery capacity).

Never leave battery in uncharged state!

**Note manufacturer’s instructions!**

Avoid sparking and open flames near batteries. Careful when handling battery acid – etching!

Only use specified fuses. If fuses are too strong, the electric system will be destroyed – danger of fire!

Operating Hours Counter

The display is able to be switched between operating hours and engine speed

⇒ separate accompanying sheet on the operating hours counter.

Socket

The 3-pole socket (A/8) DIN 9680-A is provided for connecting spotlights for working, a flashing alarm lamp or similar uses of electricity (max. 180W).

⇒ matching plug DIN 9680-A = agria-Nr. 635 55.
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

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, do not fill over max.!
4. Commissioning and Operation

Before starting the engine

1. Mount spark plug connector

2. Sufficient fuel is filled into the tank?

3. Air filter clean?
   → Engine Robin

4. Check the engine oil level
   → Engine Robin

5. Check transmission oil level
   →

6. Check all bolts and nuts for tight fit
   →

Only take machine into operation with all protective devices mounted and positioned to provide protection!

Check safety circuit
   →

Careful when starting the engine in closed rooms! Ensure good ventilation and fast escape of exhaust fumes. Exhaust fumes contain carbon monoxide which acts toxic when inhaled.

Do not touch the hot engine - danger of burns!

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

Starting the Engine

- Wear individual protective ear plugs
- Open both fuel taps
- Operator seated (safety switch in the driver’s seat)
- Engage park brake
- Set mowing operation to "0"
- **Cold engine**: put CHoke to "CHoke" position
- **Warm engine**: leave CHoke in operating position
- Set speed control lever to 1/3 speed
- - Insert key into ignition-start-switch and turn right to position “I” - Oil pressure indicator lights up
- - 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” - Oil pressure indicator must go out, if not turn off the engine immediately and remove the cause!
- - Wait at least 10 seconds before making the next attempt to start.
- - Never turn the ignition key to the START position when the engine is running!

Trailing is not permitted!

- Once the engine has started, let it warm up for some time. Slowly push choke back into operating position, if necessary.
### Driving

**Start the engine Pos. 1 - 8**

1. Adjust cutting height to "4" (driving position)
2. Release park brake
3. Set the engine revolutions to "quick"

4. Slowly press the pedal on the left or the right (depending on the direction of travel)
   - as the pedal is gradually depressed the speed of travel will increase

**The carrying of other persons is not permitted.**
Mowing

Start the engine and drive Pos. 1 - 12

Switch the mower drive slowly and evenly to "I"

Set the relevant cutting height
1 = 20 mm  
2 = 40 mm  
3 = 60 mm  
4 = 80 mm

- Turn off the mower drive before moving across areas other than grass.
- If a foreign object is hit, look for damage to the machine and carry out any necessary repairs before continuing to work with the machine
- If the machine begins to vibrate unusually strongly an immediate check is necessary.

Before any cleaning turn off the engine and pull ignition key for safety reasons!
4. Commissioning and Operation

Danger Zone

⚠️ Staying in the danger zone of the machine during starting and operation is not permitted (except when seated on the driver’s seat).

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 ride-on brushcutter’s working range.

Working on Slopes

Please be aware that there is no such thing as a "safe" slope. Driving on grass-covered slopes requires particular attention. In order to protect against rolling over you should:

- have the roll-over bar locked in the safety position
- only drive if the ground conditions allow - on damp grass there is insufficient adhesion for the wheels
- not suddenly stop or start if you are driving up- or downhill
- maintain a low driving speed on slopes and in sharp curves
- pay attention to mounds and dips and other dangers which may not be obvious
- if possible, always work cross to the slope
- do not drive on slopes greater than 20°
**Shutting off Petrol Engine**

1. Reduce the engine speed to a slow pace

2. Adjust cutting height to "4"

3. Set the mowing drive to "0"

4. Run the engine for approx. 2 minutes at a slow speed before it is switched off.
   - Turn key back to position “0”
   - Secure tool carrier against unauthorized use – disconnect key.

   For parking the machine for longer periods of no operation, do not use ignition key to shut off engine, but close fuel taps and let engine run until it slowly comes to a complete stop. After this turn the ignition key to "0" and remove it.

5. Engage park brake

6. Close fuel taps

7. On leaving the ride-on brushcutter (parking, storing) lower the cutting gear to the cutting height "1"

8. When leaving, secure the machine with chocks against rolling away!
5. Maintenance

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

Please note:

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

**Engine**

**Checking Oil Level**
- each time you take up operation and after 8 operating hours

👉 Engine Robin

- Engine oil level below "min" and over "max" leads to engine failure or possibly a breakdown!

**Changing Engine Oil**

After 50 operating hours while engine is still warm, but not hot – danger of burns!

- Clean oil filler tube (C/9), end of oil drainage hose (C/8) and surrounding parts.
- Thread the hose downwards between the frame elements, remove drainage plug and collect old oil in proper container.
- Dispose of old oil in the proper manner.
- Replace the oil drainage hose in the upright position, fix with clamp and close with plug
- Fill fresh oil

👉 Engine Robin

- For engine oil quality refer to “Specifications”
5. Maintenance

Fuel Filter
Change fuel filter after every 200 operating hours.

Cooling System
After mowing for longer periods of time, clogging of plants and dust may occur in the cooling system. Sustained operation with the cooling system clogged lets the engine heat up and causes damage.

- Clean engine only with a brush or compressed air. Do not spray with water.
- Always check cooling-air screen (C/7) and remove dirt and plants sucked in: Take off cooling-air screen and clean with a brush or compressed air.
- Clean fan system after every 100 hours of operation or at least once per year, preferably before the season starts. Take off fan case and clean cooling fins on both, cylinder and cylinder head, in addition to the fins and cooling-air screen.

Exhaust System and Governor
Check exhaust system (C/12), governor link, governor rod and governor springs on a regular basis for plant trash and clean, clean with a brush or compressed air if necessary. Danger of fire results when exhaust system is dirty.

- Check each time before you put the ride-on brushcutter into operation.

All other maintenance of the engine

*Engine Robin*
5. Maintenance

Air filter prepurifier

Optional
Check the air filter prepurifier (C/14) daily through the inspection glass - when dirty clean:

- Loosen cap nut (A), take out the tray and blow out - for persistent dirt wash the tray out in cold cleaner and leave to dry out.

Battery

There is no dry pre-charge of batteries on new machines, therefore batteries must be totally charged after filling them with accumulator acid (charge current = 1/10 of battery capacity).

If the machine or trailer will not be used for a longer period, the battery must be kept fully charged with a current of 0.06A and checked every 4 weeks and recharged, if necessary. Before recharge, disconnect negative pole.

Never leave battery in uncharged state!

Note manufacturer's instructions.

Avoid sparking and open flames near batteries. Careful when handling battery acid – etching! Only use specified fuses. If fuses are too strong, the electric system will be destroyed – danger of fire!

- Check battery fluid level at least after every 50 hours of operation, top up if necessary → manufacturer's instructions.

Switch Box

In the switch box are located the ignition-start switch, voltage regulator, indicator lamp and the fuse.

Fuse

To protect the regulator and generator from a short circuit induced from outside, a 15A fuse has been incorporated. Replace the fuse if it is defective (at the switch box B/32) - ensure that replacement fuses are available in good time!
5. Maintenance

Machine

Hydrostat Gear

Check oil level in transmission when commissioning the machine and after every 50 operating hours.

1. With the ride-on brushcutter parked in horizontal position, the oil level must be up to the level of the unscrewed checking nut;

2. refill transmission oil, if necessary, at the top of the ventilation hose - do not overfill. For oil quality refer to “Specifications”.

3. **Transmission oil change** after the first 50 operating hours, then always after 200 operating hours.

For this remove the ground plate A. The oil drain plug is located at the front of the hydrostat gear.

For oil quantity and quality refer to “Specifications”.

Angular Gear

The angular gear between the engine and hydrostat gear is permanently filled with lubrication oil and is thus maintenance-free.

This only needs to be removed and the oil topped up in the case of a leakage.

For oil quality refer to “Specifications”.

Hydrostat Cooling Fan

The cooling fan is located above the hydrostat gear.

- Check the functionality of the cooling fan at least **annually** and remove any dirt on the radiator grill.

For details, refer to “Specifications”.

---

50 h

50 h; 200 h

J

© agria - Service
5. Maintenance

Steering Gear
Clean toothed quadrant and toothed gear with a brush and lubricate with Bio lubricating grease.
At least once per year and after cleaning with a high-pressure cleaner.

Axle Bearing
Steering Knuckle
Lubricate axle bearing and both axle knuckles at the lubricating nipple with Bio lubricating grease.
At least once per year and after cleaning with a high-pressure cleaner.

Pedal Bearing
Lubricate at the lubricating nipple with Bio lubricating grease - for this remove the tunnel.
At least once per year

Countershaft
Always apply some Bio lubricating grease to the countershaft after 100 operating hours and always after cleaning with a high-pressure cleaner
- left 1 lubricating nipple
- right 2 lubricating nipple
5. Maintenance

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

Park brake
Check braking each time before you take up operation.
- If the braking effect is insufficient with the hand-brake in the stop position (B/27), adjust the adjusting screw (1) or - if this is no longer possible - the Bowden cable setting screw (2).
- If the braking effect is still insufficient after the above adjustments, check the brake linings.

Safety circuit
Check function each time you take up operation and each time you maintain the machine.
- If the driver's seat is unoccupied the engine should not be capable of being started
- on leaving the driver's seat the engine must automatically come to a standstill
- Check electric lines and connections and exchange, if necessary.

Engine Shut-off Switch
Check function each time you take up operation and each time you maintain the machine.
- With ignition-start switch in position “0” the engine must come to a stop.
- Check electric lines and connections and exchange, if necessary.
5. Maintenance

**V-Belt**

Always after **50** operating hours

- check V-belt for wear, change if necessary:

1. **V-belt**
   - Engine - Angular gear

2. **V-belt-set**
   - Engine - Countershaft

3. **V-belt**
   - Angular gear - Hydrostat

4. **V-belt-set**
   - Countershaft - Cutter block

- check V-belt tension, regulate the tension if necessary:

1. **Engine - Angular gear**

2. **Engine - Countershaft**
   - Remove engine base plate

3. **Angular gear - Hydrostat**
   - Remove engine base plate

- Loosen counternut A
- Regulate adjusting nut B until the necessary tension in the V-belt has been reached
- Re-tighten counternut A

**50 h**

- $1 = 5 \text{ mm}$
- $2 = 10 \text{ mm}$
- $3 = 6,5 \text{ mm}$
5. Maintenance

Changing V-Belt

For changing the V-belts 1, 2 and 3 reduce V-belt tension beforehand.

For changing the V-belt set 2 open and slide the sleeve of the split countershaft.

Changing V-belt set 4:

1. Remove the V-belt protector on the cutting tools
2. Mark the fitting position for the brake plate
3. Measure the setting of the pressure spring and note the dimension "A"
4. Dismantle parts (1 - 4)
5. Dismantle parts (5 - 7)
6. Dismantle belt guide screw (8 + 9)
7. Switch off cutting gear to "0" and take off the V-belt
   - Insert new V-belt and re-assemble the parts in reverse order 6 - 4

Ensure that the brake plate (7) is fitted according to the marked position 2
- Pay attention to the fitting position of the spherical disc (6)
- Change the counternuts (5 + 1) at the latest after the fifth time of unscrewing.
- Unscrew the counternuts (1) up to the established setting dimension 3 "A".
- Re-mount the V-belt protector.

⚠️ Do not operate the machine without the protection device in place.
5. Maintenance

Protective Cloths

Always inspect the protective cloths in front of and behind the cutting tools for damage and wear before starting the machine and when carrying out service work and replace them where necessary.

⚠️ Do not operate either with damaged protective cloths or without them fitted.

Driving Chains

- Carry out a check by eye of driving chains for dirt and grease, clean where necessary and at least once per year lubricate with Teflon spray.

Also lubricate driving chain after every cleaning with a high-pressure cleaner with Teflon spray and start it for a short while.
- Check the protective covering of the driving chains for damage and wear and exchange where necessary.

Cutter Brake

The brake which is integrated into the cutting tools ensures that, in each case (at max. engine speed), after:
- switching off the engine
- leaving the driver's seat (safety circuit)
- switching off the cutter gear drive
the cutting tools will come to a complete stop at the latest after 5 seconds.

- After every 200 hours check that the cutter coasting time < 5 seconds, where necessary. ☑️agria - Service☞
5. Maintenance

Flail Knives

Wear protective gloves.

Attention: Never work with flail knives and screws which are below the dimensions shown in the diagram or which are damaged!

After every 50 working hours, at every change of knives and when there is an increase in vibration, check the flail knives, screws and the fixing lug on the rotor shaft for wear and damage.

1 Replace all parts which do not meet the minimum dimensions.

Should increased vibrations in the machine continue to occur

(agna - Service)

Only use a hexagon head screw (1) with a property class of at least 10.9.

The flail knives are easily exchanged, are suspended loosely swinging and must remain freely suspended.

2 Only use original agria spare parts!

1 Hexagon screw 777 79 min. 10.9
2 Washer 557 09
3 Locking nut 281 10
4 Flail knives 776 06

3 Tightening torque of the counternut:

25 Nm. Always exchange the counternut for a new one when changing the knives.

4 Oil the flail knife screws a little in cases of extremely hard use, so that wear is reduced.
5. Maintenance

General Maintenance

- Watch out for fuel and oil leakage, especially from the engine, hydrostat gear and angular gear, and repair if necessary.

- Regularly check bolts and nuts for tight fit and tighten them as necessary.

- Slightly grease all sliding and moving parts (e.g. speed control lever, etc.) with bio-lubricating grease and bio-lubrication oil.

Cleaning

After every mowing application, immediately and thoroughly clean the cutting section with water. All sliding parts must then be greased with Bio lube oil or Bio grease.

After cleaning with a high-pressure cleaner, immediately lubricate the lubricating points at the machine and shortly operate the flail mower so that the entered water is pressed out.

At the bearing points, a grease collar shall have emerged protecting the bearing point against entering of dirt, plant sap and water.

Clean engine only with a cloth. Avoid spraying with air-compressed water jets, as water might leak into ignition and fuel system causing malfunctions.
5. Maintenance

Storage

For longer periods of no operation proceed as follows:

a) Clean thoroughly
   Repair paint coat

b) Engine preservation
   see also ➔ Engine Robin
   ● Drain fuel completely 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. 0.03 l) of engine oil into the spark plug opening. Slowly crank the engine.
   ● Slowly crank the engine after every 2–3 weeks (spark-plug connector is removed). Then set the piston to compression again.

c) Lower cutter gear
   Always only shut down the machine with the cutter gear lowered, otherwise there is the danger of an accident if it is lowered unintentionally!

d) V-Belt and Clutch
   Always only shut down the machine with the mower drive disengaged, otherwise problems could occur with the clutch as a result of deformed V-belts.

e) Parking
   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.

f) Covering the machine
   Protect the machine with cloth or a similar cover.
### Varnishes, Wear Parts

#### agria Order No.

### Fuel Stabilizer for Petrol Engine

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

### Varnishes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Spray Tin</th>
<th>Milliliters</th>
</tr>
</thead>
<tbody>
<tr>
<td>181 03</td>
<td>Spray varnish birch-green</td>
<td></td>
<td>400 ml</td>
</tr>
<tr>
<td>712 98</td>
<td>Spray varnish red, RAL 2002</td>
<td></td>
<td>400 ml</td>
</tr>
<tr>
<td>509 68</td>
<td>Spray varnish black</td>
<td></td>
<td>400 ml</td>
</tr>
</tbody>
</table>

### Glues (for screw fastening)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Bottle</th>
<th>Milliliters</th>
</tr>
</thead>
<tbody>
<tr>
<td>559 94</td>
<td>Glue (medium) LOCTITE 242</td>
<td>bottle</td>
<td>50 ml</td>
</tr>
<tr>
<td>559 95</td>
<td>Glue (strong) LOCTITE 270</td>
<td>bottle</td>
<td>50 ml</td>
</tr>
<tr>
<td>559 96</td>
<td>Glue (ultra strong) LOCTITE 638</td>
<td>bottle</td>
<td>50 ml</td>
</tr>
</tbody>
</table>

### Surface Sealing

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Tube</th>
<th>Milliliters</th>
</tr>
</thead>
<tbody>
<tr>
<td>509 68</td>
<td>Surface sealing (liquid) LOCTITE 573</td>
<td>tube</td>
<td>250 ml</td>
</tr>
</tbody>
</table>

### Emergency Tyre Repair:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Bottle</th>
<th>Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td>713 13</td>
<td>Tyre sealing gel Terra-S</td>
<td>Bottle</td>
<td>1 l</td>
</tr>
</tbody>
</table>

### Wearing parts:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400 059</td>
<td>Air filter element</td>
</tr>
<tr>
<td>789 81</td>
<td>Fuel filter</td>
</tr>
<tr>
<td>400 058</td>
<td>Engine oil filter cartridge</td>
</tr>
<tr>
<td>759 99</td>
<td>Spark plug, Bosch WR7 DC; Champion N9YC; NGK BPR6ES</td>
</tr>
<tr>
<td>759 28</td>
<td>Flat plug fuse15A</td>
</tr>
<tr>
<td>400 060</td>
<td>Warning light LED red, oil pressure indicator</td>
</tr>
<tr>
<td>777 80</td>
<td>Locking screw roll-over bar</td>
</tr>
<tr>
<td>777 79</td>
<td>Hexagon screw M10 x 55 10.9</td>
</tr>
<tr>
<td>281 10</td>
<td>Locking nut M10</td>
</tr>
<tr>
<td>776 06</td>
<td>Flail knives</td>
</tr>
<tr>
<td>776 24</td>
<td>V-belt X13 x 730 Ld Engine- Angular gear</td>
</tr>
<tr>
<td>776 25</td>
<td>V-belt set X13 x 1180 Ld Engine- Countershaft</td>
</tr>
<tr>
<td>799 20</td>
<td>V-belt X13 x 1060 Ld Angular gear- Hydrostat</td>
</tr>
<tr>
<td>775 69</td>
<td>V-belt set X13 x 1104 Ld Countershaft - Cutter block</td>
</tr>
<tr>
<td>789 69</td>
<td>Battery acid 1 l.</td>
</tr>
</tbody>
</table>
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>Remedy</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petrol engine:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine does not start</td>
<td>- Spark plug connector not connected</td>
<td>Connect spark plug connector</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Choke is not operated</td>
<td>Set choke lever to position CHoke</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>- Countershaft - Cutter block (Safety circuit)</td>
<td>Operator to sit down</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>- Fuel tank empty or poor fuel</td>
<td>Fill fresh fuel</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>- Fuel line clogged</td>
<td>Clean fuel line</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Fuel filter clogged</td>
<td>Change fuel filter</td>
<td>32</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 adjust spark plug and start at full throttle</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Battery empty</td>
<td>Charge battery or exchange</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>- Harness, E-starter damaged</td>
<td>Check harness and E-Starter</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>- Inleaked air due to loose caburettor and suction line</td>
<td>Tighten attachment bolts</td>
<td>*</td>
</tr>
<tr>
<td>Misfirings in engine</td>
<td>- Engine running in CHoke range</td>
<td>Set CHoke lever to operating position</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>- Loose ignition cable</td>
<td>Fix ignition cable retaining device</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Clogged fuel line or poor fuel</td>
<td>Exchange fuel filter, fill fresh fuel</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>- Vent opening in fuel tank cap clogged</td>
<td>Exchange fuel tank cap</td>
<td>24</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>BM</td>
</tr>
<tr>
<td></td>
<td>- Carburettor misadjusted</td>
<td>Re-adjust carburettore</td>
<td>*</td>
</tr>
<tr>
<td>Excessive temperature in engine</td>
<td>- Low engine oil level</td>
<td>Refill oil immediately</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>- Impaired cooling</td>
<td>Clean cooling fan screen, clean internal cooling fins</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Carburettor misadjusted</td>
<td>Re-adjust carburettore</td>
<td>*</td>
</tr>
<tr>
<td>Misfirings in engine at high speeds</td>
<td>- Short firing intervals</td>
<td>Adjust spark plug</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Incorrect idle mixture</td>
<td>Adjust carburettore</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>- Fuel filter clogged</td>
<td>Change fuel filter</td>
<td>32</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>BM</td>
</tr>
<tr>
<td></td>
<td>- Carburettor misadjusted</td>
<td>Re-adjust carburettore</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>BM</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>32</td>
</tr>
<tr>
<td>Engine does not stop when set to stop</td>
<td>- Defective electrical cable, earth missing</td>
<td>Check line and connection, check ground contact</td>
<td>*</td>
</tr>
<tr>
<td>Engine output too low</td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>BM</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></td>
<td>- Parking brake not released</td>
<td>Release parking brake</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>- Cutter unit clogged</td>
<td>Clean cutter unit</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td>- Fuel filter clogged</td>
<td>Change fuel filter</td>
<td>32</td>
</tr>
<tr>
<td>Oil indicator not illuminated when engine stops</td>
<td>- Starter switch not switched on</td>
<td>Set starter switch to &quot;I&quot;</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>- Indicator light defective</td>
<td>Replace indicator light</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>- Harness is damaged</td>
<td>Check harness</td>
<td>*</td>
</tr>
<tr>
<td>Oil indicator comes on during operation</td>
<td>- Low engine oil level</td>
<td>Refill oil</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>- Excessive temperature in engine</td>
<td>Clean cooling fan screen, and if necessary clean internal cooling fins</td>
<td>32</td>
</tr>
</tbody>
</table>

**Machine in General:**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Remedy</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>No wheel drive</td>
<td>- V-belts have too little tension</td>
<td>Re-tension V-belts</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>- Idle shift is operated</td>
<td>Activate hydraulic drive</td>
<td>19</td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>- Loosened attachment bolts</td>
<td>Tighten attachment bolts</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td>- Flail cutter unevenly worn or damaged</td>
<td>Replace flail cutter</td>
<td>40</td>
</tr>
</tbody>
</table>

* = For this purpose contact your agria workshop!
BM = See separately operating instructions for the engine
**Lubrication Chart**

- **A**: Each time before You take up operation
- **B**: After every cleaning with air-compressed water jets
- **J**: Once a year

---

**Diagram Notes**:

1. **B; J**
2. **B; J**
3. **A; 8 h**
4. **50 h**
5. **200 h**
6. **B; J**
7. **J**
8. **100 h; B**
9. **A; 50 h**
10. **50 h; 200 h**
11. **B; J**
Maintenance Schedule

A = Each time before You take up operation
J = Once a year
Fig. C

Engine Robin EH64

1  Air filter
2  Spark plug connector
3  Engine identification number
4  Fuel pump
5  Fuel filter
6  Oil filter
7  Cooling air screen
8  Oil drainage hose
9  Oil filler cap
10 Battery
11 Oil dip-stick
12 Muffler
13 Fuel taps (2 piece)
14 Air filter prepurifier (optional)
Designation of Parts

Fig. C
Robin EH64
<table>
<thead>
<tr>
<th>Item in lubrication chart or maintenance schedule (pages 46, 47)</th>
<th>Inspection and Maintenance Chart</th>
</tr>
</thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Check safety circuit function</td>
<td>18 K</td>
</tr>
<tr>
<td>Check engine shut-off switch function</td>
<td>19 K</td>
</tr>
<tr>
<td>Check park brake</td>
<td>20 K</td>
</tr>
<tr>
<td>Check air filter</td>
<td>14 K</td>
</tr>
<tr>
<td>Check air filter prepurifier</td>
<td>13 K</td>
</tr>
<tr>
<td>Clean cooling-screen</td>
<td>13 K</td>
</tr>
<tr>
<td>Clean surrounding parts of exhaust</td>
<td>23 K</td>
</tr>
<tr>
<td>Check engine oil level, refill, if necessary</td>
<td>3 K</td>
</tr>
<tr>
<td>Tighten wheel bolts and nuts</td>
<td>22 K</td>
</tr>
<tr>
<td>Check transmission oil level</td>
<td>9 K</td>
</tr>
<tr>
<td>Change transmission oil</td>
<td>10 W</td>
</tr>
<tr>
<td>Change V-belt</td>
<td>24 K</td>
</tr>
<tr>
<td>Check battery</td>
<td>17 K</td>
</tr>
<tr>
<td>Clean spark plug and adjust</td>
<td>15 K</td>
</tr>
<tr>
<td>Change engine oil</td>
<td>4 W</td>
</tr>
<tr>
<td>Clean air filter</td>
<td>14 W</td>
</tr>
<tr>
<td>Lubricate countershaft</td>
<td>8 K</td>
</tr>
<tr>
<td>Clean guide plates, cooling fins – earlier, if required</td>
<td>F F</td>
</tr>
<tr>
<td>Check cutter coasting time</td>
<td>21 W</td>
</tr>
<tr>
<td>Change engine oil filter</td>
<td>5 W</td>
</tr>
<tr>
<td>Replace spark plug</td>
<td>K BM</td>
</tr>
<tr>
<td>Adjust valve clearance</td>
<td>F BM</td>
</tr>
<tr>
<td>Clean cylinder head</td>
<td>F BM</td>
</tr>
<tr>
<td>Replace fuel filter</td>
<td>12 W</td>
</tr>
<tr>
<td>Replace fuel hoses</td>
<td>F BM</td>
</tr>
<tr>
<td>Lubricate all sliding parts</td>
<td>K K</td>
</tr>
<tr>
<td>Lubricate steering gear</td>
<td>1 K K</td>
</tr>
<tr>
<td>Lubricate axle bearing steering knuckle</td>
<td>6 K K</td>
</tr>
<tr>
<td>Lubricate pedal bearing</td>
<td>7 K K</td>
</tr>
<tr>
<td>Lubricate driving chains</td>
<td>11 W W</td>
</tr>
<tr>
<td>Check hydrostat cooling fan</td>
<td>15 W W</td>
</tr>
<tr>
<td>Lubricate Flail knives bearing</td>
<td>2 K</td>
</tr>
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Conformity Declaration

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

Wir erklären, dass das Produkt
bruschtier sitting bull
miteinander Widerruf der folgenden EG-Richtlinien:
98/37/EG, 89/336/EWG, 2000/14/EG

Agewendete Normen:
EN 836, EN 12733

Möckmühl, 10.04.2003

Siegfried Arndt
Geschäftsführer

Matthias Wenzl
Leiter Entwicklung & Konstruktion

De volgende normen zijn toegepast:

EN 836, EN 12733

Ride-on Brushcutter Sitting Bull
THE WINNING TEAM

Cutter bar mower  Tool Carrier  Ride-on Brushcutter

Motor hoe  One-Wheel Hoe  Two-wheel tractor

Sweeper  Scarifier  Multi-Purpose Machine

Contact your authorised agria dealer for service and prompt delivery of spare parts