Operating Instructions
Translation of the original operating instructions

Tool Carrier
agria 3600 BM Unihamster
- compact
- comfort
- premium

3600 922 compact 2 + 2
3600 942 comfort 3 + 3
3600 972 premium 3 + 3 + Brake
Engine: Honda GX200

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

Operating Instructions No. 998 472GB  04.18

6440, 6439_5
### Symbols, Name Plate

**Please complete:**

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For name plate, refer to page 5, figure A/11.
For engine type and number, refer to page 53, figure C/6.
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:**
- Tool carrier
- Tool kit
- Original Operating Instructions
- Original engine operating instructions
- Machine identity card (in envelope on outside of box)

**Please complete the machine identity card and return it to Agria-Werke.**

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Designation of Parts

Figure A
1 Mowing drive hood  
2 Steering handle  
3 Cutter bar  
4 Mowing drive  
5 Oil drain plug for mowing drive  
6 Oil filler plug for mowing drive  
7 Gearbox of basic machine  
8 Hub with anti-winding tube  
9 Transmission oil drain plug of basic machine  
10 Transmission oil filling opening and dip-stick of basic machine  
11 Name plate (in travel direction, right)  
12 Engine

Figure B
2 Hand lever for engine stop (safety circuit)  
3 Hand clutch lever  
4 Pawl for hand clutch lever  
5 Eccentric lever for remote control of interlocking bolt  
6 Shifter for wheel drive forfard and reverse  
7 Shifter for attachment drive (mowing drive)  
8 Shifter for wheel drive (gear shifter)  
9 Locking screws for steering handle height adjustment  
10 Locking lever for steering handle height adjustment  
11 Speed control lever  
12 Hand lever for forfard and reverse  
13 Hand lever for operation brake, park brake  - only premium version  
14 Pawl for park brake  - only premium version
Designation of Parts

A

B

Compact Version

Comfort, premium Version
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.

Do not add oil to petrol.

Maintenance and Repair:

Larger maintenance and repair tasks may only be carried out by trained specialists who can carry out professional maintenance and repair.

You should only undertake smaller maintenance and repair tasks yourself if you have the relevant tools and training for machinery and combustion engines.

Only use genuine Agria spare parts.

Carry out a functional and safety test after completing the work.
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 machine meets the current state of the art and complies with the applicable safety regulations at the time of marketing within the context of the approved use. In terms of design it was not possible to eliminate either the foreseeable misuse or the remaining risk without limiting the functionality in accordance with the regulations.

The tool carrier agria 3600 BM is a manually guided, self-propelled, single-axle machine which can pull implements that are approved in the Agria sales list. Utilization for e.g. Winter service and sweeping, grass and meadow mowing or mulching (intended use).

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

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

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

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

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

The machine is intended to be used in commercial and in private applications.

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

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

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

Reasonable foreseeable misuse

Foreseeable misuse and improper handling include inter alia:

• Removal or manipulation of protective and safety devices
• Use of non-approved add-on devices
• Failure to observe maintenance intervals
1. Safety Instructions

- Omitting measurements and tests for the early detection of damage
- Failure to replace wearing parts
- Incorrectly executed maintenance or repair work
- Improper use.
- Working with defective electrical or mechanical devices
- Transport and manoeuvring movements with add-on devices switched on

General Instructions on Safety and Accident Prevention

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

For drives on public roads, the 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 tool carrier and instructed on the hazards of operation are allowed to use, maintain and repair the mower.

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. Wear solid shoes!

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

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

Careful with rotating tools – keep at a safe distance!

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

Foreign powered parts shear and crush!

Riding on the attachment during operation is not permitted.

Implements and their weight affect the driving, steering, braking, and tip-over characteristics of the mower. Therefore, ensure steering and braking functions are sufficient.

Match operating speed to conditions.

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

Working Area and Hazardous Area

The working area is the entire area to be worked on. The user is liable to third parties working within the mower's working range.

Staying in hazardous area is not permitted (see page 27)

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

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

For operation in enclosed areas, ensure that a safety distance is kept to enclosures to prevent damage to tools.
1. Safety Instructions

Operation and Safety Devices

Before you start the Engine

Become familiar with the devices and operating elements and their functions. Above all, learn how to turn the engine off quickly and safely in an emergency.

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

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

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

Starting the Engine

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

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

For starting the engine, do not step in front of the mower 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 mower is at work.

Never adjust the operating handles during work – danger!

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. There may be tension in the drive train as a result of the blockage, which is why you should resolve the blockage carefully.

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

In the event of any malfunctions to the steering, stop and park the machine immediately. Have the fault resolved without delay.

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

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

To park the machine on the slope, insert the 1st gear or, in the case of the version premium, apply the parking brake.

End of Operation

Never leave the mower unattended with the engine running.

Before you leave the tool carrier, turn off the engine. Then close the fuel tap(s) (if present).

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

Implements

Only fit implements with the engine and PTO switched off.
Prior to attaching and starting the implement, read and observe the operating instructions of the implement.
Always use appropriate tools and wear gloves when changing implements and parts thereof.
For fitting and dismounting implements bring support leg into proper position and ensure stability.
Secure mower and implements against rolling off (parking brake -if present-, wheel chocks).
Beware of injuries while coupling implements.
Fit implements as specified and only couple at specified points.
Always switch off the working tools during a transport ride or when you drive to adjacent working areas.
Secure mower and implement against unauthorized use and rolling off when you leave the machine. If necessary, install transport or security devices and secure.

Mowing attachment

Always wear protective gloves when you work on the knives.
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 fit the protective knife strips. Secure finger bars additionally with tension springs.
Do not transport the dismounted cutter bar without protective strips.
Before fitting and dismounting the cutter bar, make sure all blades are protected by the protective strip.
To exchange the mowing knife and to fit/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 fitting devices.

Snow clearance

Ensure snow dozer is mounted correctly! Wear slip-proof shoes.
When swivelling the snow dozer watch out for crush and shear points. Adjust working speed to conditions. Operator may be injured when the mache comes in contact with solid objects.

Maintenance

Only trained specialist personnel, who can carry out professional maintenance and repair, may carry out this work.
Do not carry out maintenance and cleaning with the engine running.
When working on the engine always remove the ignition key (if present) and also the spark plug connector in the case of petrol engines.
Check regularly and, if necessary, replace all protecting devices and tools subject to wear and tear.
Replace damaged cutting tools!
Always wear safety gloves and use proper tools when exchanging cutting tools!
1. Safety Instructions

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

Keep mower 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.

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

Storage

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

Never park the mower in closed rooms with fuel left in tank. Fuel vapours are hazardous.

Engine, Fuel and Oil

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

Caution with hot engine parts!

The silencer and other engine parts get very hot when the engine is running and are still hot directly after the engine is switched off. Keep a 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.

Drain fuel only outdoors and into suitable containers.

In the interests of safety, replace the fuel tank cap and other tank caps if damaged.

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 disposing of opened and seemingly empty pressurized tins make sure they are completely empty. Empty them in a well-ventilated area safe from sparks and flames. Dispose of tins as hazardous waste if necessary.

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.
1. Safety Instructions

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 fitting weights or implements.

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

Electrical System

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

Explaining of Warning Signs

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

Do not touch coasting tools. Wait until tools have come to a complete stop.

With engine running, keep at a safe distance from cutting tools!

With engine running, keep at a safe distance.

Do not work without protective devices! Do not start the engine without having the protective devices positioned to provide protection.

With engine running, keep a safe distance to cutting tools!

Signs

- When working with the machine, wear individual protective ear plugs.
- Wear protective gloves.
- Wear solid shoes.
2. Specifications

Compact Version

Type: .............................................
........ Unihamster compact 3600 922
without mowing drive

Tyre: ................................. 4.00-8 (Field tyre)

Tyre air pressure: .............. 1,2 bar

Weight: with mowing drive ...........
................................. approx. 83 kg
(without cutter bar)
without mowing drive approx. 56 kg

Clutch: ........................................
Disc dry clutch

Getriebe: ............ Mechanical gearbox,
2 forward speeds and 2 reverse
speeds

Filling quantity:
........................................... approx. 1,5 l.
Transmission oil SAE 90-API GL5
(e. g. BP Energear Hypo)

Travel Speeds:

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<th>R 1.</th>
<th>R 2.</th>
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<td>1,93</td>
<td>3,82</td>
<td>1,21</td>
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Steering handle: .. height adjustable.

Vibration acceleration value:
on handlebar grip ............ \( a_{\text{hw}} = \text{m/s}^2 \)
in accordance with 2002/44/EG; EN 12733:2001

Comfort Version

Type: .............................................
........ Unihamster comfort 3600 942
without mowing drive

Tyre: ................................. 16 x 6.5-8 (Field tyre)

Tyre air pressure: .............. 1,2 bar

Weight: with mowing drive ...........
................................. approx. 96 kg
(without cutter bar)
without mowing drive approx. 69 kg

Clutch: ........................................
Disc dry clutch

Getriebe: ............ Mechanical gearbox,
Reversing gearbox
2 forward speeds and 2 reverse
speeds

Filling quantity:
........................................... approx. 1,5 l.
Transmission oil SAE 90-API GL5
(e. g. BP Energear Hypo)

Travel Speeds:

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<td>km/h</td>
<td>1,35</td>
<td>2,16</td>
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Steering handle: ..... rubber mounted
height adjustable without tools.

Vibration acceleration value:
on handlebar grip ............ \( a_{\text{hw}} = \text{m/s}^2 \)
in accordance with 2002/44/EG; EN 12733:2001
2. Specifications

Premium Version

Type: ..............................................
....... Unihamster premium 3600 972
        without mowing drive

Tyre: .............. 16 x 6.5-8 (field tyre)

Tyre air pressure: .............. 1,2 bar

Weight: with mowing drive ..............
................. approx. 98 kg
        (without cutter bar)
        without mowing drive approx. 71 kg

Clutch:
........................................... Disc dry clutch

Gearbox: .......... Mechanical gearbox,
Reversing gearbox
3 forward speeds and 3 reverse speeds
operation and park brake

Filling quantity:
........................................... approx. 1,5 l.
        Transmission oil SAE 90-API GL5
        (e. g. BP Energear Hypo)

Travel Speeds:

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<td>km/h</td>
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<td>2,16</td>
<td>3,02</td>
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</table>

Steering handle: ..... rubber mounted
        height adjustable without tools.

Vibration acceleration value:
on handlebar grip .............. \( a_{hw} = \text{ m/s}^2 \)
in accordance with 2002/44/EG; EN 12733:2001
2. Specifications

**Dimensions [mm]**

- \(a = 910\)
- \(b = 570\)
- \(e = 510\)
- \(h = \text{ca. 990}\)
- \(l = 1780\)
- \(m = 1170\)

\[ S = \]
\[ A = \text{refer to track width plan} \]

**Track Width Plan [mm]**

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>S</th>
<th>i</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4.00-8</td>
<td>510</td>
<td>400</td>
<td>290</td>
<td>900</td>
<td>880</td>
</tr>
<tr>
<td>16 x 6.5-8</td>
<td>610</td>
<td>455</td>
<td>290</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Mowing drive**

- Centrally driven oil bath rocker
- Arm mowing drive

for universal, municipal cutter bar and cutting bar

Stroke: ......................... 76 mm
Stroke speed: .................... 943 min \(^{-1}\)

Transmission oil for mowing drive:

......................... SAE 90-API GL5

Filling quantity approx. 0.5 l.
2. Specifications

Engine

Manufacturer: Honda
Type: GX200
Version: Fan-cooled 1-cylinder 4-stroke engine (petrol) OHV
Bore: 68 mm
Stroke: 54 mm
Cubic capacity: 196 ccm
Output: 4.1 kW at 3600 min⁻¹
Torque: max. 12.4 Nm at 2500 min⁻¹
Spark plug: NGK BR6ES
Spark Electrode gap: 0.7 - 0.8 mm
Ignition system:: Transistor-magneto ignition
Valve lash (engine cold)
Intake: 0.15 ± 0.02 mm
Outlet: 0.20 ± 0.02 mm
Starter: Recoil starter

Fuel tank capacity: approx. 3.1 l
Fuel: commercially available car petrol, octane number see engine operating instructions

Air filter: Oil bath type

Working speed: 3600 min⁻¹
Idling speed: 1250-1600 min⁻¹

Engine oil: Filling quantity approx. 0.6 l
Multi-grade oil SAE 10 W-30 API-SJ or higher quality

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

Noise levels:
in accordance with EN 12733 and EN ISO 11201, with municipal cutter bar 117 cm
Noise level at operator’s ear
LₚA = 96.0 dB
Acoustic power level: Lₗₐ₁ = 110.3 dB
3. Devices and Operating Elements

The tool carrier agria 3600 is a basic motorised unit and is always used with an implement. Therefore it is most suitable for normal use in landscape gardening and in agriculture and forestry work for such as turning over the ground, mowing grass and meadowland, snow clearing and sweeping.

When the single-axle tractor/the tool carrier/the all-purpose machine is used on public roads, the local national road traffic rules must be observed (marking, lighting, etc.).

The implements released in the Agria sales list are available.

Engine

- The four-stroke petrol engine runs on commercial petrol.
- refer to fuel recommendations p 6.

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 grille 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 without run-out.

Air filter

The air filter purifies the air taken in. A clogged filter affects engine output.

Ignition system

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

Speed control lever

The speed control lever (B/11) on the steering handle is for stepless control of engine speed from min = IDLING to max = FULL THROTTLE to fit requirements.
Safety circuit

1 Stop position: When releasing the lever (B/2) the ignition system is switched off (engine is shut off).
   - Beware! Engine keeps running due to centrifugal mass.

2 Start position: For starting the engine and for short breaks press down the safety circuit lever, pull the clutch lever (B/3) and lock with pawl (B/4).

3 Operating position: To operate the machine, press down the safety circuit lever (B/2).

   - Do not tie down the safety circuit lever! Check safety circuit for proper function each time you take up operation!
   - The safety lever is used as an emergency off switch: Release the lever in a dangerous situation. It swings automatically to “STOP” position!

Clutch

1 The mower is equipped with a disc dry clutch which is operated via the hand clutch lever (B/3).
   - With hand clutch lever pulled to position “0”, the clutch is decoupled, i.e. the engine stops driving the tool carrier.

2 Watch for the correct clutch play to avoid clutch slipping away during operation.

   - With the engine running, do not park the power mower for an extended period of time while the clutch is pulled because this may result in damage to the clutch release bearing.

3 With the engine stopped, always park the tool carrier with the hand lever pulled (pawl is locked into place), otherwise clutch problems may occur due to corrosion.

Brake only premium version

1 Brake unlocked

2 Operation brake - Pull hand lever (B/13)

3 Park brake - Pull hand lever (B/13) - lock with pawl (B/14)
3. Devices and Operating Elements

**Gearbox compact Version**

Only change gears when the machine is stopped (decoupled)!

The tool carrier is equipped with a mechanical gearbox with 2 forward speeds and 2 reverse speeds.

**Changing gears**

- Gear change V1, V2 and R1, R2 is via gear shifter (B/6)!
- Gears are changed via neutral position in the shift gate.

**Mowing Drive Compact Version**

(PTO driven)

The mowing knives are driven by rocker arm drive via PTO on basic machine.

**PTO Speed Change**

Shifter (B/7) is for turning on/off the mowing drive or the PTO driven implement.

- Move shifter forward = off;
- Move shifter backward = on.

**Steering Handle Compact Version**

Adjust the steering bar only when traction drive and PTO drive are switched off - risk of accident!

**Steering Handle Height Adjustment**

1. Loosen the locking bolts (B/9).
2. Adjust handlebar to desired height.
3. Fasten the locking bolts.
3. Devices and Operating Elements

**Gearbox Comfort and Premium Version**

- Only change gears when the machine is stopped (decoupled)!

The tool carrier is equipped with a mechanical gearbox with 3 forward speeds and 3 reverse speeds.

**Changing gears**
- Gear change 1-2-3 is via gear shifter (B/8)!
- Gears are changed via neutral position in the shift gate.

**Shifter V-R**

- Travelling direction change via shifter V-R (B/12).

**PTO Drive Comfort and Premium Version**

The drive for the attachments is obtained from the power take-off shaft on the base unit.

The mowing knives are driven by rocker arm drive via PTO on basic machine.

**PTO Speed Change**

- Shifter (B/7) is for turning on/off the mowing drive or the PTO driven implement:
  - Move shifter forward = off;
  - Move shifter backward = on.

**Steering Handle Comfort and Premium Version**

**Steering Handle Height Adjustment**

- Press down locking lever (B/10) until notches are free.
- Adjust handlebar to desired height.
- Release locking lever and fit handle-bar into proper notch, so that locking lever wivels back into its original position.
3. Devices and Operating Elements

Coupling Point

⚠️ Ensure that the engine is switched off!

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

Attachments may be attached and detached without the use of tools using the quick-connect coupling device.

The interlocking lever for coupling attachments is operated with the eccentric lever (B/5) on the handlebar.

**Coupling attachments:**
- Pull eccentric lever backward (inter-locking lever is opened).
- Remove protective cap from coupling pin on the attachment.
- Insert attachment into coupling hole on basic machine.
- Push eccentric lever forward.
- now interlocking lever automatically locks into place (eccentric lever completely pushed forward), if not, twist attachment slightly to the left and right.

**Removing attachments:**
- Pull eccentric lever backward (inter-locking lever is opened).
- Remove attachment from coupling.
- Cover attachment coupling pin with protective cap.
3. Devices and Operating Elements

Mowing Attachment
The following cutter bars are available as an option:
Universal cutter bar 117 cm
Municipal cutter bar 117 cm
Finger cutter bar 125 cm

Attaching the Cutter Bar

For attaching/removing the cutter bar, fit the knife guard and wear safety gloves!

First Assembly

The basic machine is supplied with coupling plate (5) and knife driver (16).

Universal Cutter Bar

1. Mount the coupling plate (5) with the 2 centering sleeves (7) and the long bolts for the cutter bar knives (11 = M8x30) to the cutter bar (9).
2. Mount the knife driver (16) to the mowing knife.
3. Mount the adjustable gliding skids (21) to the cutter bar.

Municipal Cutter Bar

1. Mount the coupling plate (5) with the 2 centering sleeves (7) and the distance bar (8) to the cutter bar.
2. Mount the knife driver (16) to the knife.

Finger Cutter Bar

1. Coupling plate not necessary.
2. Mount the knife driver with the long attachment bolts (supplied) (14a) to the mowing knife.
3. Devices and Operating Elements

Attaching the Cutter Bar

Wear safety gloves!
Fit the knife guard!

1. Loosen the clamping bolt (17) on the knife driver and undo the bolts on the driver by approx. two turns (18).

2. Fit the cutter bar with the knife driver (16) into the pivot arm (13).

3. Bolt the cutter bar to the carrier (12), tighten them evenly and lock with nuts (6).

4. Adjust the knife driver.

5. Check all attachment bolts for tight fit!

Removing the Cutter Bar
Reverse the above order.

Exchanging Mowing Knives

Turn off the engine, remove the spark plug connector!
Wear safety gloves!
Fit knife guard before you remove mowing knife!
Keep clear off mowing knife!

Mounting and Dismounting
operating instructions cutter bar
Drive-Wheels
For improved traction fit wheels in such a way that the pointed parts of the tread profile point into travel direction (wheels seen from above).

Snow Chains
When working with snow chains fitted to wheels, observe manufacturer’s instructions, make sure there is sufficient clearance between chains and machine parts.

Twin-Wheels
Intermediate wheel flanges
Item no. 3616 011 (without wheels)
Drive-wheels 4.00-8
Item no. 3690 011
- To fit twin-wheels, remove wheel nuts (3) and washers (2).
- Fit intermediate wheel flanges (1) with washers (2) and wheel nuts (3).
- Slide anti-winding tubes (4) over intermediate wheel flanges.
- Fit outer drive-wheels (5) using washers (6) and wheel nuts (7).

After each wheel change or after fitting strake wheels and twin wheel hubs, re-tighten wheel bolts and nuts at approx. 50 Nm after the first 2 operating hours. Otherwise, always re-tighten when doing maintenance work.

Steel cage wheels
Item no. 3617 011 or fitting drive-wheels 4.00-8
- To fit steel cage wheels, remove wheel (3) and washers (2).
- Fit steel cage wheel flanges (1) with bolts and washers and tighten wheel nuts at 50 Nm.
- Slide steel cage wheels onto square pivots and tighten with tommy screws (5).
3. Devices and Operating Elements

Attachment points

Straps must be fastened to the attachment points for towing, recovery, securing for safe transport and loading the machine.

**Lashing to other points may result in damage.**

Check straps for damage and replace if necessary!

Do not use sharp-edged load carrying equipment (e.g. sharp-edged hooks, eyes etc.)!

**Never walk or stand under suspended loads. Danger to life!**
4. Commissioning and Operation

Commissioning the Machine

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. Make sure the air filter is serviced regularly and to use clean fuel.

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 ank 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 40)

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 36)!
Danger Zone

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

⚠️ Staying in the danger zone of the machine during startup and operation is not permitted.

If the operator notices that people or animals are in the working area, the machine must be switched off immediately and not restarted until this area is clear.

The user is responsible for third parties in the working area (entire area to be worked on).
4. Commissioning and Operation

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

1. Sufficient fuel is filled into the tank (C/4)?
2. Air filter (C/1) clean?
3. Check the engine oil level (C/11).
4. Check the transmission oil level of the travelling drive (A/10).
5. Check the transmission oil level of the mowing drive (where fitted).

\[\text{Only take tool carrier into operation with all protective devices mounted and positioned to provide protection!}\]

Never start or allow the engine to run in enclosed rooms or rooms that are not ventilated.

Ensure good ventilation and fast escape of exhaust fumes. Exhaust fumes contain carbon monoxide which acts toxic when inhaled.

Handle hot engine components with caution!

The silencer and other engine parts get very hot when the engine is running and are still hot directly after the engine is switched off. Keep a sufficient distance from hot surfaces and keep children away from the running engine.

\[\text{Do not touch or remove the ignition line and spark plug connector while the engine is running.}\]
4. Commissioning and Operation

**Starting Petrol Engine**

1. Position the spark plug connector (C/10).

2. Open fuel tap (C/13).

3. **Cold engine:** Turn CHOKE lever (C/5) to position "CHOKE".

   **Warm engine:** Leave CHOKE in operating position or turn half way.

4. Set speed control lever (B/11) to approx. 1/3 throttle.

5. Press safety circuit lever (B/2) and hand clutch lever (B/3) in start position and lock pawl (B/4).

   **Check safety circuit!**

6. Pull the starter rope on the handle (C/7) until the starter clutch engages. Then pull **hard and fast** to pull the rope all the way out. After the start, let the rope glide back. Do not let it snap back.

7. As soon as the engine has warmed up, move the CHOKE back to the operating position (if it was operated).
4. Commissioning and Operation

Shutting off the Petrol Engine

1. Pull the park brake
   - only premium version
2. Move the speed control lever and PTO lever to position "0".
3. Move the speed control lever to idling position "min" and let the engine run idle for about 30 seconds.
4. Release the safety circuit lever (B/2).
5. Close the fuel tap.
6. Secure the machine against unauthorised use and rolling away.
   - Remove the spark-plug connector.
   - Use wheel chocks
   The safety circuit lever (B/2) also serves to shut off the engine in an emergency situation. If necessary, release this lever to shut off the engine.

To down the machine for a long period of time, do not press the engine shut-off-switch to stop the engine. Instead, close the fuel tap and operate the engine until it comes to a stop by lack of fuel. This is to ensure the carburetor is empty and to avoid resin deposits.

Transport (with Cutter Bar)

Before transportating the machine, turn off the engine, wait until the cutting tools stopps and fit knife guard!
4. Commissioning and Operation

Mowing or Working

1. Remove knife guard (only with cutter bar).
2. Grease the cutter bar (only with cutter bar).
3. Start the engine.

Comissioning

Check safety circuit function, see page 40

- Only operate the machine if safety circuit works!

4. Wear individual protective ear plugs and solid shoes.
5. Engage proper gear 1 or 2.
6. Move PTO lever.
7. Release the brake - only premium version.
8. Pull hand clutch lever slightly while pressing the throttle.

Direction change from forward to reverse:

1. Engine to idle speed.
2. Pull hand clutch lever and maintain.
3. Move the shifter to "R".
4. Slowly release the hand clutch lever while you are pressing the throttle.

In particular when reversing or manoeuvring, watch out for obstacles to prevent surprises!

Re-tighten all nuts and screws of the mowing drive and the cutter bar after commissioning and when changing the knife after about 15 - 30 operating minutes and than every 4 operating hours (particularly of the cutter bar carrier and the knife driver).
4. Commissioning and Operation

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.

After mowing or in case of clogging:

1. Disengage wheel-drive. The mower comes to a stop but not the knives, thus freeing the cutter bar from grass.
2. Pull hand clutch lever and lock pawl.
3. Disengage mowing drive.
4. Shut engine off.
5. Re-fit knife guard.

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

Never leave the machine unattended while the engine is running.

Cutter bar gliding skids

The cutter bar is equipped with height-adjustable running bases (or optional) to avoid any damage on the knife (stones etc.).

Height adjustment:

- Loosen hexagonal nuts (1).
- Slightly lift cutter bar and adjust the sliding skids (2).
- Re-tighten hexagonal nuts (1).

Adjust all sliding skids to the same height.
Working on slopes

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

⚠️ Depending on the type of ground surface (vegetation, humidity ...), wear suitable shoes so that you do not slip or fall.

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

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

Premium version: Use the operation brake in order to stop and engage the park brake for parking.

Starting the engine on slopes

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

Version premium: pull the park brake.

2. Move the hand clutch lever and emergency-off-switch into "Start" position.

3. Start the engine.
4. Commissioning and Operation

Safety references for the handling

- Do not run the engine in closed areas, in which dangerous carbon monoxide can accumulate itself.
- Always wear safety shoes and long trousers during working. Do not operate the machine bare-footed or in lightweight sandals.
- Check completely the area, on which the machine is used, and remove all articles, which can be out-thrown by the machine.
- Only work at daylight or good lighting.
- Always pay attention to a safe stand on slopes.
- Only lead the machine in the step speed.
- Always work transverse to the slope, never slope up or downward.
- Be particularly careful, if you change the driving direction on slopes.
- Do not work on excessively steep slopes.
- Be particularly careful, if you turn the machine around or pull it to itself.
- Always switch off the working elements when transporting or moving to adjacent areas!
- Do not change the basic adjustment of the engine or overspeed the engine.
- Start the engine carefully according to the instructions of the manufacturer and respect on sufficient distance from the feet to the tools.
- Never lead hands or feet to or under turning parts.
- Never lift or carry the machine with running engine.
- The engine is to be turned off: - if you leave the machine; - before you refuel.
- Close the fuel taps after working.
- Never keep the machine with petrol in the tank within a building, in which possibly petrol vapors with open fire or sparks can come into contact or catch fire.
- If the tank is to be emptied, this is to be accomplished outdoor.
- Let the engine cool down, before you store the machine in closed areas.
- Replace for safety reasons worn out or damaged parts.
5. Maintenance and Repair

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!

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

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 und (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 20 operating hours. Following oil changes are after every 100 operating hours. Change oil while engine is still warm, but not hot – danger of burns!

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

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

- For engine oil quality refer to “Specifications”.

---

A; 8 h

B/11

(20 h); 100 h; 6M
5. Maintenance and Repair

Air filter; oil bath type

Prior to each startup, check the air filter (C/1) for contamination.

Clean if necessary. At the latest every 3 months or every 50 operating hours. After a few hours in very dusty environments.

1. Unscrew the wing nut (1), remove air filter lid (2) and cover.

2. Remove the air filter insert (3) from the lid. Wash lid and filter insert in warm soapy water, rinse and allow them to dry thoroughly. Alternatively, clean them in an incombustible solvent and allow them to dry.

3. Immerse the filter insert into clean engine oil. Press out any excess oil afterwards. The engine smokes if there is too much oil in the foam insert.

4. Drain the used oil from the air filter housing (4). Wash out accumulated dirt with incombustible solvent. Dry the housing.

5. Fill the oil that is recommended for the engine (see page 16) up to the OIL LEVEL mark into the air filter housing.

Oil volume: 60 cm³

6. Assemble the air filter and tighten the wing nut.
5. Maintenance and Repair

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 fan grille (C/8) 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 fan grille, both serving for good air circulation.

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Exhaust system and speed governor

Regularly check the exhaust system (C/9), governor lever, linkage and governor springs for soiling and plant debris and clean with a brush or compressed air if necessary. **Danger of fire - due to dirty exhaust system!**

Check before each start-up.
Replace damaged exhaust parts.

Handle hot engine components with caution!
5. Maintenance and Repair

Cleaning the Spark Plug and Re-adjusting the Electrode Gap

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, re-adjust it to 0.7 - 0.8 mm.

Exchange the spark plug at approx. 200-hour intervals.

Fuel Hoses

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

Idle speed

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

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All further maintenance and care of the engine

Engine operating
Machine

Gearbox

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

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

1. Remove oil dip-stick, clean with a clean cloth and put it back in.

2. Remove the dip-stick again and read the oil level, refill transmission oil, if necessary.

Change transmission oil after the first 50 operating hours and after every 300 operating hours while the engine is still warm.

1. Clean the oil filler plug (A/10) and the drain plug (A/9) 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 machine and each time you change wheels, check and tighten wheel bolts and nuts after the first 2 operating hours with 50 Nm and after 25 operating hours.

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

Never exceed the maximum tyre pressure!

The max. tyre pressure is shown on the side of the tyre.

There is a risk of explosion from excessive tyre pressure.

Only skilled specialists are allowed to repair and change tyres, using suitable installation tools.
Coupling Attachments

After every 50 operating hours and each time you clean the machine, lubricate the nipples with Bio-lubricating grease. Additionally, grease the PTO each time before you couple an attachment.

Adjustments on Hand Levers

- Hand clutch lever (B/3)
- Hand lever for brake, premium version (B/13)

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

- Remove locking nut (2).
- Adjust the adjustment screw to a play of $A = 5 - 6 \text{ mm}$.
- Re-tighten locking nut (2).

Safety circuit

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

- When you release lever (B/2) and engaged clutch the engine must automatically come to a stop.
- Check electric conductors and connections for good condition, exchange, if necessary.

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5. Maintenance and Repair

Mowing Drive

Checking Oil Level

after commissioning and after every 25 operating hours:
- Dismount the moving drive and put it horizontally on the cutter bar or on its carrier.
- Open the drain plug (2), the oil level must reach to the drain opening and must not be lower than 1 cm under the drain opening, refill if necessary (transmission oil SAE 90-API-GL).

Inspect the condition of the sealing rings, replace if necessary.
Tighten the drain plug!

Changing Oil

The first oil change is after 50 operating hours. Subsequent oil changes are after 300 operating hours.

1. Clean the filling plug (1), the drain plug (2) and the surrounding parts and open the plugs.
2. Change oil, collect the old oil in a proper container and dispose of properly.

Inspect the condition of the sealing rings, replace if necessary.
Tighten the drain and the filling plug!

For oil quality refer to "Specifications".
5. Maintenance and Repair

Mowing Mechanism

The cutter bar is exposed to extreme strain. Therefore, it evidently must be maintained and adjusted with special care.

- **After commissioning** and every 8 operating hours: Lubricate all gliding on the mowing knife Mähmesser with Bio-lubricating grease or Bio-lubricating oil.

- **After commissioning** and at least after every 2 operating hours: Retighten all nuts and screws of the mowing drive and the cutter, particularly the knife driver.

  When changing the knife driver attachment bolts only use original bolts from Agria to avoid knife fractures.

Adjustment of the knife driver

**Before each mowing** and every 8 operating hours check the play between the adjustment bolts and the driver pin is 0,10 mm.

Proceed as follows:

1. Open the interlocking bolts.

2. Adjust the free space by turning the adjustment bolts to the left or the right.

3. Re-tighten the interlocking bolts.

Proceed to checking or adjustment when the pivot arm is moved to the left or the right.
5. Maintenance and Repair

Cutter Bar

Stop the engine, remove the spark plug connector!
Wear safety gloves!
Always attach the knife guard before laying the mowing knife aside!

For mounting or dismounting the mowing knives as well as for the maintenance of the cutter bar refer to operating instructions cutter bar.

Re-grinding the Mowing Knives

Wear safety goggles and safety gloves.

After 4–20 operating hours, depending on the strain the mowing knives are exposed to, they become blunted and regrinding is necessary.

For this purpose, we recommend to use a hand grinder of 15,000 to 20,000 rpm with a pot-shaped grinding pin of 25 mm in diameter and approx. 35 mm in length or a special grinding tool.

Grinding of mowing knives is essential for clean and smooth mowing.

- For grinding, use front of grinding pin and slide it from knife back to blade tip.
- Blades must not heat up. They are destroyed when they turn blue (glowed out and soft).
- Do not round-off the tips of the blades (P).
- Do not grind the blades in a bow (P).
- Remove any burr with a hand grinding stone.

For mounting or dismounting the mowing knives as well as for the maintenance of the cutter bar refer to operating instructions cutter bar.
5. Maintenance and Repair

General Maintenance

- Watch out for fuel and oil leakage every time you take up operation, repair if necessary.
- Regularly check bolts and nuts for tight fit, retighten, if necessary.
- At least once a year and after cleaning:
  Lubricate all gliding and moving parts with Bio-lubricating grease or Bio-lubricating oil (e.g. speed hand lever, handle bearing etc.).

Cleaning

Cutter Bar

After each mowing, clean cutter bar thoroughly with water. Remove the knife and remove dirt collected between knife blades. After cleaning, apply Bio-lubricating oil or Bio-lubricating grease to all gliding parts.

Fit knife guard!

Mowing Drive and Machine

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

Engine

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

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, add fuel stabilizer (agria No. 673 50) to the fuel tank
   - Observe instructions

Operate the engine for approx. 1 minute.

- Change the engine oil.
- Fill a teaspoon of engine oil (approx. 0.03l) into the spark plug opening. Slowly crank the engine.
- Reinstall the spark plug and set the valves on compression using the recoil starter (Pull the starter rope until you feel resistance), the valves are closed.
- Crank the engine slowly at 2–3 week intervals (spark plug connector is removed!) and set the valves on compression again.

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

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

f) Storing the machine
   To avoid severe corrosion:
   - Protect against weather influence
   - Do not store in:
     - humid rooms
     - in rooms where fertilizer is stored
     - in stables or adjacent rooms.

g) Protect machine
   with cloth or a similar cover.
5. Maintenance and Repair

Labels

Replace worn-out and missing signs for operating and safety instructions.
Varnishes, Wear Parts

Agria Order No.

673 50  Fuel stabilizer  Bottle  250 ml

Emergency Tyre Repair:

713 13  Tyre sealing gel Terra-S  Bottle  1 l.

Varnishes:

181 03  Spray varnish birch green  Spray tin  400 ml
712 98  Spray varnish blood orange  Spray tin  400 ml
509 68  Spray varnish black  Spray tin  400 ml

Wear Parts:

759 99  Spark plug NGK BPR6ES; Bosch WR7 DC
009 25  O-ring 14 x 18 x 1.5 (drain plug gear box housing)
009 17  O-ring 16 x 22 x 1.5 (drain plug gear box housing)

Spare Part Lists:

997 095  Tool carrier 3600 Unihamster
997145  Honda Engines
Lubrication Chart

A = Each time before you take up operation
B = Once a year and after every cleaning in particularly with high pressure cleaner
J = Once a year

8 A; 8 h; B

9 Municipal cutter bar

10 A, 50 h, B

1 A; 8 h

2 (20 h) 100 h

3 (50) 300

4 (50 h) 300 h

5 50 h, B

6 25 h

7 (50) 300

8 A; 8 h

10 A, 50 h, B
## 6. Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Remedy</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petrol engine does not start</td>
<td>Spark plug connector not connected</td>
<td>Connect spark plug connector</td>
<td></td>
</tr>
<tr>
<td>- Choke is not pulled</td>
<td></td>
<td>Set Choke-lever to right position</td>
<td>30</td>
</tr>
<tr>
<td>- Safety circuit is not set to start position</td>
<td></td>
<td>Set safety circuit to start position</td>
<td>30</td>
</tr>
<tr>
<td>- Fuel tank empty or poor fuel</td>
<td></td>
<td>Fill fresh fuel</td>
<td>29</td>
</tr>
<tr>
<td>- Fuel line clogged</td>
<td></td>
<td>Clean fuel line</td>
<td></td>
</tr>
<tr>
<td>- Defective spark plug</td>
<td></td>
<td>Clean, adjust or exchange spark plug</td>
<td>39</td>
</tr>
<tr>
<td>- Engine too much fuel (&quot;flooded engine&quot;)</td>
<td></td>
<td>Dry and clean spark plug and start at full throttle</td>
<td></td>
</tr>
<tr>
<td>- Engine-off-line defective</td>
<td></td>
<td>Check line and connections</td>
<td></td>
</tr>
<tr>
<td>- Inleaked air due to loose carburetor and suction line</td>
<td></td>
<td>Tighten fastening screws</td>
<td></td>
</tr>
<tr>
<td>Misfirings</td>
<td>- Engine running in CHOKE range</td>
<td>Set CHOKE-lever to operating position</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>- Ignition cable not fixed</td>
<td>Fix spark plug connector on the spark plug, fix ignition cable retaining device, fix connector on the ignition cable</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Clogged fuel line or poor fuel clogged</td>
<td>Clean fuel line, fill fresh fuel</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>- Vent opening in fuel tank cap clogged</td>
<td>Exchange fuel tank cap</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Water or dirt in fuel system</td>
<td>Drain fuel and fill fresh fuel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter or exchange</td>
<td>37</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>36</td>
</tr>
<tr>
<td></td>
<td>- Impaired cooling</td>
<td>Clean cooling fan grille, clean internal cooling fins</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>*</td>
</tr>
<tr>
<td>Misfirings at high speeds</td>
<td>- Short firing intervals</td>
<td>Adjust spark plug</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td>- Incorrect idle mix</td>
<td>Adjust carburetor</td>
<td>*</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>39</td>
</tr>
<tr>
<td></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>37</td>
</tr>
</tbody>
</table>
## 6. Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Remedy</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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine does not stop when set to stop</td>
<td>- Defective engine-stop-line, earth missing</td>
<td>Check line and connection, check earth contact</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine output too low</td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
</tr>
<tr>
<td></td>
<td>- Loose cylinder head or damaged sealing</td>
<td>Tighten cylinder head, exchange sealing</td>
</tr>
<tr>
<td></td>
<td>- Poor compression</td>
<td>Have engine checked</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clutch does not decouple</td>
<td>- Hand clutch lever misadjusted</td>
<td>Adjust clutch free play</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clutch slips</td>
<td>- Hand clutch lever misadjusted</td>
<td>Adjust clutch free play</td>
</tr>
<tr>
<td></td>
<td>- Worn out clutch</td>
<td>Exchange clutch disc</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>- Loosened fastening screws</td>
<td>Tighten fastening screws</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mowing output suddenly declines</td>
<td>- Dull knives</td>
<td>Exchange knives or re-grind knives</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Remove any burr with a hand grinding stone</td>
</tr>
<tr>
<td>Uneven cut/plant trash gets caught between knives</td>
<td>- Dull mowing knives</td>
<td>Re-grind mowing knives</td>
</tr>
<tr>
<td></td>
<td>- Knives not straight</td>
<td>Have knives removed and re-aligned</td>
</tr>
<tr>
<td></td>
<td>- Blades are not aligned</td>
<td>Have blades re-aligned</td>
</tr>
<tr>
<td></td>
<td>- Bottom pivot arms warped</td>
<td>Adjust bottom pivot arms</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blade tips of bottom knife work into blades of top knife</td>
<td>- Top knife protrudes too far over bottom knife</td>
<td>Adjust knife guides</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blades are not on top of each other</td>
<td>- Bent blades or knives, twisted knife back</td>
<td>Check whether knives are straight, re-align, if necessary, until blades align as well</td>
</tr>
</tbody>
</table>

* = Contact your agria workshop!
7. Decommissioning, Disposal

Decommissioning
If the tool carrier will not be further used, it must be correctly decommissioned.

To avoid injuries during decommissioning, park the machine in a stable position and protect it against tipping over and rolling away.

Wear protective gloves.

Disposal
After decommissioning, the remaining fuel and oil must be drained and disposed of in a correct and environmentally compatible manner.

The machine consists of valuable raw materials, which can be recycled and reused.

Take the machine including the remaining technical fluids to a recycling facility for disposal.
Designation of Parts

Figure C
4-Stroke Petrol Engine, Honda GX200

1 Air filter
2 Carburettor
3 Fuel tank cap
4 Fuel tank
5 Choke lever
6 Engine type no.
7 Starter handle
8 Fan grille
9 Exhaust with contact guard
10 Sparking plug/sparking-plug connector
11 Oil dipstick
12 Engine oil drain plug
13 Fuel cock
### Inspection and Maintenance Chart

<table>
<thead>
<tr>
<th>Task Description</th>
<th>P</th>
<th>A</th>
<th>After operating hours</th>
<th>min. 3 month</th>
<th>J</th>
<th>B</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check safety circuit</td>
<td></td>
<td></td>
<td>2 8 25 50 100 200 300</td>
<td></td>
<td></td>
<td></td>
<td>41</td>
</tr>
<tr>
<td>Check bolts and nuts</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>Check air filter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>37</td>
</tr>
<tr>
<td>Check free play of hand lever</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>41</td>
</tr>
<tr>
<td>Check engine oil level, refill, if necessary</td>
<td>1</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>36</td>
</tr>
<tr>
<td>Clean fan grille</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>38</td>
</tr>
<tr>
<td>Check transmission oil level</td>
<td>3</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>40</td>
</tr>
<tr>
<td>Cutter bar: grease all gliding parts, - also each time you change the knife</td>
<td>8,9</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td>K</td>
<td>43</td>
</tr>
<tr>
<td>Cutter bar: Knife guides, check the play, - also each time you change the knife</td>
<td></td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mowing drive: Check transmission oil level, changing transmission oil for the first time, subsequent oil changes</td>
<td>6</td>
<td>K</td>
<td></td>
<td></td>
<td>W</td>
<td></td>
<td>42</td>
</tr>
<tr>
<td>Re-tighten wheel bolts and nuts</td>
<td>K</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>40</td>
</tr>
<tr>
<td>Check or clean speed control linkages</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
</tr>
<tr>
<td>Municipal cutter bar</td>
<td></td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
</tr>
<tr>
<td>Check the pressing force of the pivot levers</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Municipal cutter bar</td>
<td></td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BM</td>
</tr>
<tr>
<td>Grease the rocking lever bearing</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Municipal cutter bar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grease the pivot of the driver</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>First engine oil change, subsequent oil changes</td>
<td>2</td>
<td>W</td>
<td></td>
<td></td>
<td>W</td>
<td></td>
<td>36</td>
</tr>
<tr>
<td>Clean air filter-element</td>
<td>W</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>37</td>
</tr>
<tr>
<td>Re-grind mowing knife, earlier, if required!</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>44</td>
</tr>
<tr>
<td>Replace air filter-element - earlier, if required</td>
<td></td>
<td>W</td>
<td></td>
<td></td>
<td>W</td>
<td></td>
<td>37</td>
</tr>
<tr>
<td>Change transmission oil, subsequent changes</td>
<td>4</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>40</td>
</tr>
<tr>
<td>Grease the attachment connector</td>
<td>5</td>
<td>K</td>
<td></td>
<td></td>
<td>K</td>
<td></td>
<td>40</td>
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<tr>
<td>General greasing points</td>
<td>10</td>
<td>K</td>
<td></td>
<td></td>
<td>K</td>
<td>K</td>
<td>45</td>
</tr>
<tr>
<td>Clean spark plug, adjust electrode gap</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>39</td>
</tr>
<tr>
<td>Replace spark plug</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>39</td>
</tr>
<tr>
<td>Clean cylinder head</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>39</td>
</tr>
<tr>
<td>Clean carburetor and adjust idle speed</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>39</td>
</tr>
<tr>
<td>Adjust valve lash</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>39</td>
</tr>
<tr>
<td>Clean fuel filter</td>
<td></td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>35</td>
</tr>
<tr>
<td>Clean cooling fins, guide plates and fan grille</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>38</td>
</tr>
<tr>
<td>Replace fuel hoses</td>
<td>W*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>39</td>
</tr>
</tbody>
</table>

- **P** = Position lubrication chart
- **A** = Each time you take up operation
- **B** = After each cleaning
- **J** = Every year
- **K** = Checks and maintenance to be executed by operator
- **W** = Maintenance to be executed by professional workshop
- **F** = Maintenance to be executed by agria workshop
- ***** = after 2 years
- **BM** = Refer to cutter bar operating instructions
Declaration of Conformity

EG-Konformitätserklärung
EC Declaration of Conformity

D Wir

F Nous

GB We

NL Wij

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

erklären, dass das Produkt

DECLARATION OF CONFORMITY

Geräteträger

Porte-Outils

Tool Carrier

Werktuigdrager

Unihamster 3600 922, -942, -972

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

Die Maschine ist auch in Übereinstimmung mit allen einschlägigen Bestimmungen der folgenden EG-Richtlinien:

2004/108/EG, 2000/14/EG

Vindicate the comprehensibility of the following sentences:

est conforme à toutes les exigences respectives

sur les machines 2006/42/CE.

La machine est aussi conforme à toutes les exigences respectives

sur les directives CE suivantes:

2004/108/CE, 2000/14/CE

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

It is also conform to all relevant specifications of following EC directives:

2004/108/EC, 2000/14/EC

voldoet aan de desbetreffende bepalingen

van de EG-machinerichtlijn 2006/42/EG.

De machine voldoet ook aan de desbetreffende bepalingen van het volgende EG-richtlijnen:

2004/108/EG, 2000/14/EG

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

De machine voldoet ook aan de desbetreffende bepalingen van het volgende EG-richtlijnen:

2004/108/EG, 2000/14/EG

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

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

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


Möckmühl, den 25.04.2018

Klaus Mies
Geschäftsführer

Managing Director
Bedrijfsleider

Leiter Entwickl & Konstruktion
Responsable développement et études
Hoofd ontwikkeling en constructie

Herr Beek ist bevollmächtigt die technischen Unterlagen zusammenzustellen.
Monsieur Beek est habilité à agencer la documentation technique.
Mr. Beek is authorized to assert the technical documents.
De heer Beek is gemachtigd om de technische documentatie op te stellen.
Anschrift/adresse/address/adres:
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Bittelbronner Straße 42
D-74219 Möckmühl
Tel.: +49 6298 39-0
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E-Mail: info@agria.de
Internet: www.agria.de

Your local agria specialist dealer: