Sweeper
7100 Cleanstar premium

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

Operating Instructions No. 998 776-A 03.12
Symbols, Name Plate

Please complete:

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

For name plate, refer to p3/fig.A/5.
For engine type and number, refer to p42/fig. C/7.
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.

Amount of delivery:
- Operating instructions
- Base machine
- Handlebars with attachment bolts
- Tool kit

👉 refer to operating instructions ...
👉 agria - Service = contact your agria-workshop

Symbols:
⚠️ Warning – Danger
ℹ️ Important information
🔍 Choke
⛽ Fuel
🪤 Oil
👉 Engine Start
🛑 Engine Stop
☀️ Brush drive
גלגלות
_wheel drive engaged
_wheel drive disengaged
_slow
_fast
🔓 Open (unlocked)
🔒 Closed (locked)
➡️ Forward
← Reverse
Designation of Parts

Figure A

1 Pawl for clutch lever
2 Clutch lever for brush drive engagement
3 Safety circuit lever
4 Twist grip for adjustment of driving speed and travelling direction
5 Name plate
6 Speed control lever
7 Rod that pivots the implement
8 Height adjustment crank
9 Protective hood
10 Notched plate to lock the rod
11 Main guard
12 Coupling pin for implement attachment (optional)
13 Extension guard
14 Rotary brushes
15 Transmission (Hydrostat)
16 Wheel dog
17 Drive wheel
18 V-belt housing cover (rear)
19 V-belt housing
20 Engine base plate
21 Clamping lever for handlebars height adjustment
22 Engine
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24 Dial for manual speed adjustment of rotary brushes
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Designation of Parts

--- Note fold-out pages!

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Lubricants and Anti-Corrosive Agents:

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

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

We recommend using Bio-slushing oil to preserve machines and attachments (do not apply on painted covers). You can brush or spray the oil.

Anti-corrosive agents are environmentally friendly and degrade fast.

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

Fuel

This engine runs smoothly on commercial unleded regular and supergrade petrol (including E10).

Do not add oil to petrol.

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

For further instructions see “Engine Preservation”.

Maintenance and Repair:

The trained mechanics of your agria workshop expertly carry out any maintenance and repair work.

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 to pull off the flywheel.
Unpacking and Assembly

1. **Unpacking**
   - Open the box top.
   - Cut all corners open and fold down the sides.

2. **Attaching the handlebars**
   
   **A** Raise the handlebars
   - Unscrew the clamping lever (21) until the notches are exposed
   - Pivot the handlebars (24) to the rear up to correct working height → page 18
   - Re-tighten clamping lever (21).

3. **Fitting the protective hood (9)**
   with spacer (D), crank (8) and linch pin (K)

4. **Fitting the drive wheels**
   - Coat the wheel shaft on both sides with a little grease
   - Fit spacer tube and drive wheels on both sides - pay attention to direction of arrow for cleated tyres
   - Mount wheel dog with screw (2) and securing nut - wheel dog settings → page 18.

5. **Mounting extension guards**
   - Attach an extension guard to either side of the main guard (11), using three hex head bolts and locking nuts for each guard.

6. **Attaching the rotary brushes**
   See page 19 for details

7. **Starting up**
   See page 22 for details
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 sweeper, including the implements approved by the manufacturer, is constructed for normal use in cleaning park and pathway areas, for gathering and sweeping up loose dirt, and may also be used as a snow-clearing machine after it has been fitted with suitable brushes and a rake blade (due use).

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

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

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

General Instructions on Safety and Accident Prevention

Basic Rule:

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

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

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

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

Teenagers of 16 years or younger may not operate the sweeper!

Only work in good light and visibility.

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

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

When transporting the sweeper on vehicles or trailers outside the area to be swept, ensure that the engine is turned off and the wheel dogs are engaged.

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.
1. Safety Instructions

Riding on the machine during operation is not permitted.

Implements and their weight affect the driving, steering, braking, and tip-over characteristics of the sweeper. Therefore, ensure steering and braking functions are sufficient. Match operating speed to conditions.

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

Working Area and Danger Zone

The user is liable to third parties working within the sweeper’s working range. Staying in the danger zone is not permitted.

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

Careful! Dirt and stones may get airborne during sweeping. People and animals must keep out of this area. Watch out for vehicles, window panes and other objects to avoid damage.

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

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

Operation and Safety Devices

Before You Start the Engine

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

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

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 sweeper and the implement.

Operation

Never leave the operator’s position at the handlebars while sweeper is at work.

Never adjust the operating handles during work — danger!

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

Riding on the machine during operation or in transport is not permitted.
1. Safety Instructions

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

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

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

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

If possible, always work horizontally on the slope.

End of Operation

Never leave the sweeper unattended with the engine running.

Before you leave the sweeper, turn off the engine.

Secure sweeper against unauthorized use - remove spark plug connector.

Implements

Only mount implements with the engine and the implement drive switched off.

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

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

Secure sweeper and implements against rolling off (wheel chocks).

Beware of injuries while coupling implements.

Mount implements as specified and only couple at specified points.

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

Weights

Always fit weights onto appropriate weight mounting devices.

Snow Clearing

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

When pivoting the snow dozer watch out for crush and shear points. Adjust working speed to conditions. Operator may be injured when the machine hits an obstacle.
1. Safety Instructions

Maintenance and Cleaning

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

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

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

Keep sweeper and implement clean to avoid risk of fire.

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

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

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

Storage

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

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

Engine, Fuel, and Oil

Never let the engine run in closed rooms. Extreme danger of intoxication!

For the same reason, also replace damaged exhaust parts immediately.

Caution with hot engine parts!

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

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 sweeper away from the spillage before you start the engine.

Make sure fuel is of specified quality.

Store fuel in approved cans only.

For safety reasons the petrol tank and fuel cap should be replaced regularly.

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

Read and observe enclosed instructions.
1. Safety Instructions

**Tyres and Tyre Air Pressure**

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

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

Regularly check tyre air pressure.

Excessive pressure may cause bursts.

Use appropriate tyre air pressure when mounting weights or implements.

**Explanation of Warning Signs**

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

**Electrical System and Battery**

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

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

With engine running, keep at a safe distance. Dirt and stones may get airborne during sweeping. People and animals must keep out of this area.

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

Be careful when draining hot oil, danger of burns.

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

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

1. Safety Instructions

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

With engine running, keep at a safe distance. Dirt and stones may get airborne during sweeping. People and animals must keep out of this area.

**Explanation of Warning Signs**

- **Signs**
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**Electrical System and Battery**

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

Sweeper
agria-Cleanstar premium

7100 221 ....... 100 cm brushes fine
7100 321 ..... 100 cm brushes coarse

Transmission:
Wheel drive ......................... Hydrostat
Drive on driving wheels with chain drive

Ground speeds:
Forward travel, steplessly .. 0 - 5 km/h
Reverse travel, steplessly .. 0 - 3 km/h

Brush drive ......................... worm gear
..................................... V-belt clutch with idler pulley

Brush speed is adjusted steplessly via a variator from 100 rpm to 200 rpm
Always use original agria V-belts (see wear parts list on page 41)

Handlebars:
height-adjustable without tools

Noise level:
Noise level: ...................... \( \mathbf{L}_{\text{PA}} \) 75 dB
in accordance with EN 11201 (at operator’s ear)

sound power level in accordance with
EN ISO 3744:1995 : ..............................
measured ............................. \( \mathbf{L}_{\text{WA}} \) 95 dB
guaranteed ........................... \( \mathbf{L}_{\text{WA}} \) 96 dB

Vibration acceleration value:
on handlebar grip ....... \( a_{\text{hw}} \) = 3,02 m/s\(^2\)
in accordance with 2002/44/EC

Dimensions:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>890 mm</td>
</tr>
<tr>
<td>b</td>
<td>630 mm</td>
</tr>
<tr>
<td>e</td>
<td>1335 mm</td>
</tr>
<tr>
<td>h</td>
<td>960-1060 mm</td>
</tr>
<tr>
<td>l</td>
<td>1650 mm</td>
</tr>
<tr>
<td>L Collector</td>
<td>1930 mm</td>
</tr>
<tr>
<td>L Snow dozer</td>
<td>1890 mm</td>
</tr>
<tr>
<td>A</td>
<td>1000 mm</td>
</tr>
<tr>
<td>S</td>
<td>480 mm</td>
</tr>
</tbody>
</table>

Weights:
Cleanstar premium ... approx. 102.5 kg
Collector 100 cm ........ approx. 13,0 kg
Snow dozer blade 100 cm approx. 13,5 kg
Spray apron ............... approx. 2,5 kg
Sprinkling assy ........... approx. 4,0 kg

Tyres: ...................... 3.50 - 6 field tyres
Optional: ............ 13x5.00-6 Lawn tyres

Tyre pressure: ...................... 0,8 bar
2. Specifications

Engine

Manufacturer: ....................... Honda

Type: .............................. GCV 160 N2E

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

Bore: ........................................ 64 mm

Stroke: ................................. 50 mm

Piston displacement: .......... 160 ccm

Output: .................... 4.1 kW at 3600 rpm

Torque:
max. 11.4 Nm at 2500 rpm

Spark plug: ...... NGK BPR6ES Bosch
Spark plug gap: ............... 0.7–0.8 mm

Ignition:
Transistor trip coil, contactless;
ignition point: 20° before dead centre,
radio remote screened according to
VDE 0879

Valve lash (engine cold)
Intake: ................. 0.15 ± 0.04 mm
Outlet: ......................... 0.20 ± 0.04 mm

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

Fuel tank capacity: ............... 1.1 l

Fuel: .............................. unleaded petrol,
octane number at least 91 RON
(also E10)
refer to fuel recommendations

Air filter: ...................... Dry element filter

Carburetor: ............. Float carburetor
Throttle valve type

Mixture control screw: ... opened by
approx. 1 turn in base setting

Top no-load speed: ........... 3250 rpm

Idling speed: ............ 1550–1850 rpm

Engine oil:
Filling quantity .............. approx. 0.55 l
Multi-grade oil SAE 10 W-40
SG, SF or higher quality grade

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 %)
3. Devices and Operating Elements

The agria Cleanstar sweeper is suited for application in amenity areas and winter road clearance. The following components are available for sweepers:

- Rotary brushes 100 cm
  - coarse ............ agria item no. 6194 151
  - fine ................. agria item no. 6194 161
- Collector
  - 100 cm agria item no. 6194 221
- Sprinkling assy
  - agria item no. 6194 481
- Spray apron
  - agria item no. 6194 921

The following implement is available for winter road clearance:

- Snow dozer
  - 100 cm agria item no. 6196 021

3.1 Engine

The four-stroke petrol engine runs on commercial petrol (refer to fuel recommendations p6).

During the first 20 operating hours (break-in period) do not operate the engine at maximum speed.

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

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

Cooling System

The engine is *fan-cooled*. Therefore keep the grille on the recoil starter and the cooling fins on the 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 cleans the air as it is inducted. A clogged filter reduces engine output.

Ignition System

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

3.2 Speed Control Lever

(Engine-shut-off switch)

The speed control lever (A/6) on the handlebar sets the engine speed steplessly and actuates the CHOKE and the engine-shut-off switch. For the appropriate positions see the illustration.

The speed control lever also serves as *engine safety circuit*. In an emergency move the lever to position "STOP" to shut off the engine instantly.

---

*agria* Sweeper 7100 Cleanstar premium 15
3.3 Safety Circuit Lever

The Cleanstar premium sweeper has a safety circuit mechanism for wheel/brush drives integrated in the clutch lever.

1 **Stop position:** Upon release of the lever (A/3) – with wheel drive or brush drive engaged – the ignition system is switched off (engine is shut off).
Caution – engine keeps running due to centrifugal mass.

2 **Start position:** When starting and during work breaks set the clutch lever (A/2) and the driving twist grip (A/4) to "0".

3 **Operating position:** Press the safety circuit lever (A/3) down to start operation.

⚠️ **Do not tie down the safety circuit lever.**

The safety circuit lever also serves as engine safety circuit in an emergency. Upon release, the lever will automatically go to STOP position.
3.4 Wheel Drive

- When the twist grip (A/4) is turned in a clockwise direction the machine travels forwards at an increasing speed of max. 5 km/h.
- When the twist grip (A/4) in an anti-clockwise direction the machine travels backwards at an increasing speed of max. 3 km/h.

Marking on the top of the twist grip:
- middle setting = "0" setting

3.5 Brush drive

The brushes are driven by a V-belt clutch and a worm gear.

Operate clutch lever (A/2) to turn the brushes on/off:

A  When the clutch lever is released and the ratchet is not locked into place the brush drive is switched off ("0").

B  When the clutch lever is engaged the brush drive is switched on ("I").

By use of the pawl (A/1) the clutch lever can be locked in a switched-on position.

After the first hour of use the clutch setting must be checked and adjusted where necessary (see Maintenance).

Note: Park the sweeper only when all drives are disengaged (see Chapter “Storage”) to avoid clutch problems.
3. Devices and Operating Elements

3.6 Handlebars
Handlebars Height Adjustment

- Unscrew the clamping lever (21) until the notches are exposed
- Adjust the handlebars (24) to the desired height and notch them into the proper position.
- Re-tighten clamping lever (21).

3.7 Drive Wheels

The drive wheels (3) are attached with dogs (1) and screws (2) to the shaft. This allows attachment and removal.

Spacer tubes (4) are fitted between the gearbox and drive wheels.

3.8 Snow Chains

The mounting of snow chains is to be undertaken when the driving wheels have been removed.

The lock and the tightening chains must be on the inner side of the wheels, otherwise there may be possible damage to the wheel dog (1).

3.9 Wheel Dogs

Wheel dogs are fitted to engage/disengage the wheels independently of the gearbox.

Pushing the Machine

Disengage the dogs to push the machine when the engine is shut off.

Turning Aid

Engage the dog on one wheel for easier turning.

1 Engaging the Wheel Dogs

- Align the dog pins (2) with the appropriate holes (3) on the drive wheels.
- Turn the pins on their ends (1) by 90 degrees until the ends mesh into the slot. Turn each dog to either side until the pin locks completely into the hole.

2 Disengaging the Wheel Dogs

- Grab the end (1) of each dog pin to pull it out and rotate it by 90 degrees.
3. Devices and Operating Elements

3.10 Attaching the Rotary Brushes

Wear safety gloves to attach/remove the brushes. Danger of crushing.

1. Mount the discs onto both sides of the rotary brushes.

2. Push the tensioning anchorage through the left rotary brush.

3. Push the tensioning anchorage with the rotary brush through the drive shaft from the left - insert groove on rotary brushes into cam of the drive plate.

4. Slide right rotary brush onto tensioning anchorage - insert groove on rotary brushes into cam of the drive plate.

5. Screw on and tighten hexagonal nut.

To remove the brushes, reverse the above order.
3. Devices and Operating Elements

3.11 Sweeping Height Adjustment

The sweeping height is altered by adjusting the castor wheel.

- Turn the crank (8) to adjust the wheel height.
- Reduce the sweeping height only if absolutely necessary (to the height of X) to ensure clean sweeping and long service life of the brushes.

Dirt, powder snow .............. x = 2–3mm
Wet snow ..................... x = max 8 mm

3.12 Side Adjustment

The brush can be angled to the right or left to sweep the rubbish or snow to one side.

- Fold the rod (7) forward until the notches are exposed.
- Pivot the rod to turn the brushes to the left or right.
- Fold the rod to the rear and down again and mesh it into the proper notch.

3.13 Sweeping Speed

The speed of the rotary brushes is steplessly adjusted via a variator.

Always engage the brush drive before you adjust sweeping speed.

**Adjustment**

Select a slow speed for dust sweeping:

Turn the dial (25) in counter-clockwise direction.

Select a fast speed for snow sweeping:

Turn the dial (25) in clockwise direction.

To adjust the speed from slow to fast, give the dial a maximum turn of 6 full turns.
3. Devices and Operating Elements

3.14 Implements

1. Coupling Pin
Fit the coupling pins (12) to attach the collector or the snow dozer.
- Attach the pins (12) together with washers and hex nuts to both sides of the main guard

2. Attaching the Collector
- Attach the collector by sliding its tubes onto the coupling pins from the top front.

3. Emptying the Collector
- Take the machine to the dump area and fold the box upwards by pulling on its handle to the rear or on its frame from the front – the swept up material will now drop from the collector.

Alternatively:
- Remove the collector upwards from its coupling pins and carry it to the dump area for emptying.

4. Snow Dozer Assembly
- When attaching the snow dozer for the first time fit the stop (32) to the lower front of the main guard using the rod attachment bolts. The stop does not need to be removed for sweeping.

5. Attaching the Snow Dozer
- Attach the snow dozer blade by sliding its tubes onto the coupling pins from the top front (12).
- Operate the rod to pivot the blade like the rotary brushes.
- To move the blade into transport position, lift it and rest it on the tang on the stop (32).
4. Commissioning and Operation

4.1 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.

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

Before you operate the engine the first time, fill in engine oil!

For this purpose, park the machine in such a way that the engine is in a horizontal position. For oil filling quantity and quality refer to "Specifications".

Check the oil level after filling.

Each time you take up operation

Check the engine oil level:

- Remove the oil fill plug (C/4).
- Clean the oil dip-stick with a clean rag, insert it again but do not screw it in.
- Remove the dip-stick and read the oil level. If necessary, fill engine oil up to the level mark "max".

Ensure the oil fill plug is tightly screwed into the filler neck during engine operation.

- Check whether sufficient fuel is filled into the tank.

Do not fill the fuel tank to the point of spillage. Instead, top up fuel to the top level mark to allow the fuel to expand.

Be careful when dealing with fuel.

- Fuel is easily inflammable and explosive in certain conditions!
- Never refill close to open fire, inflammable sparks or hot engine parts.
- Do not refill in closed rooms.
- Before each fuel fill, shut off the engine and wait until it has cooled off.

- Do not smoke during filling and keep away from open fire and sparks.

- Do not spill any fuel, use a proper filling device. If fuel is spilled on the ground, ensure the area is absolutely dry and the vapours have evaporated before you start the engine.
4. Commissioning and Operation

4.2 Starting the Engine

- Check whether all guards are in proper position.

**Do not start the engine in closed rooms. Exhaust fumes contain carbon monoxide which acts toxic when inhaled.**

1. Open the fuel tap (C/11).

2. **Cold engine:**
   - Set the speed control lever (A/6) to “START” (“CHOKE”) position.

3. **When the engine is warm or in hot weather:**
   - Move the speed control lever to 1/3 position.

4. Set the twist grip for adjustment of driving speed (A/4) to "0" position.

5. Set the clutch lever for brush drive engagement (A/2) to start position ("0").

6. **Pull the starting-rope on handle (C/2) until you feel the starter clutch engage. Then pull hard and fast to start the engine. After the start, let the rope glide back. Do not let it snap.**

   **In order to start the motor the operator must stand to the right of the machine, must not hold the operating lever on the handlebar and should pull the starting rope out to the right. Keep off the danger zone.**

**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.
4. Commissioning and Operation

4.3 Shutting off the Engine

1. Set the speed control lever to idling position and let the engine run with idling speed for approximately 1/2 minute.

2. Move the speed control lever completely to the STOP position.

   For shutting off the engine, do not set the control lever to the CHOKE position – risk of fire!

3. Close the fuel tap.

   The speed control lever also serves as engine shut-off lever. When necessary, move the speed control lever to STOP to stop the engine.
4. Commissioning and Operation

4.4 Danger zone

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

Check the immediate surroundings for foreign objects and for children and animals in particular!

Careful! Dirt and stones may get airborne during sweeping.
People and animals must keep out of this area.
Watch out for vehicles, window pannels and other objects to avoid damage.

Only work on slopes of up to a max. of 30°.
For operation on banks, always turn machine towards the slope!
4. Commissioning and Operation

4.5 Sweeping

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

- Check safety circuit function
- Only operate the machine if safety circuit works!

2. Wear individual protective ear plugs and solid shoes.

3. Slowly pull the brush drive engagement lever (A/2) until the pawl clicks in place and pull the throttle at the same time to start the brushes.

4. Set driving speed with the twist grip (A/4) according to the requirements.

5. After sweeping or in case of clogging:

- Set both drives to "0".

6. Shut off the engine.

- Shut off the engine and disconnect the spark plug connector, if cleaning is necessary during operation.

4.6 Snow Clearance

- Attach the snow dozer blade properly. Wear slip-proof footwear.

- Working speed must suit conditions to prevent the operator is injured if the machine hits an obstacle.
Apart from adhering to operating instructions for the sweeper, it is also important to observe the following maintenance instructions.

**Warning:** Only do maintenance work with the engine shut off.

To prevent accidental start while working on the rotary brushes or on the engine, always remove the spark plug connector from the spark plug.

### Machine

#### 5.1 Hydrostat

1. The hydrostat gear is permanently lubricated.
   - Oil change or topping up is not necessary if there are no leakages.
   - Have any leakages repaired at once

2. Check the functionality and condition of the Hydrostat cooling fan at least **annually**
   - for this remove protective hood (A/9)
   - Remove any dirt on the radiator grill.
   - immediately replace any defective fan, otherwise this may lead to a breakdown in the Hydrostat drive.

3. **V-Belts**
   Inspect the condition of the V-belts (3 pieces) at least **once per year**.
   - Remove the belt cover (A/9).
   - Replace the V-belts when they are worn.
   - Only use original agria V-belts.

4. **Driving chain**
   - Lubricate the driving chains (2 pieces) at least **once per year** with Teflon spray
   - remove the V-belt housing cover (A/18).
5.2 Worm Gear of Brush Drive
The worm gear \( A \) is permanently lubricated to work for approximately 250 operating hours.

Oil change is not necessary if there are no leakages.
Suitable oil is SAE 90 transmission oil, approx. 0.3 l
If there is a leak →agria-Service←

5.3 Brush drive
In order to maintain a perfect functioning of the V-belt clutch the clutch lever (A/2) must be set to a disengaged condition (position "0") free from play i.e. the brush drive must come to a stop.

If the clutch play needs further adjustment, set it on the cable-setting screw.

- Undo locking nut (2)
- Adjust the setting screw (1) in such a way that the lever is free from play
- Retighten the locking nut (2)

5.4 Drive-wheels
- Check the tyre pressure periodically. In particular, ensure that both tyres have equal pressures to give smooth riding.

- Attach the wheels with the pointed part of tread lugs showing in travel direction (seen from above) to obtain full traction.

5.5 Wheel Shaft
Apply bio-lubricating grease to the wheel shaft around the hub each time the machine was cleaned with a pressure washer or at least once per year.
5. Maintenance

5.6 Sweeper

- Check the tensioning anchorage for tight fit before each operation and at intervals of 8 operating hours.
- Check the rotary brushes for wear at least after every 25 hours and replace them in good time. Minimum diameter is 250 mm.

5.7 Adjusting Spindle

Apply bio-lubricating grease to the adjusting spindle in the area of the swinging hub each time the machine was cleaned with a pressure washer or at least once per year.

5.8 Safety circuit

Check the safety circuit function each time you take up operation and each time you maintain or service the machine.

1. Upon release of the lever (A/3) and with the brush drive engaged or the twist grip operated the engine must come to a stop! →agria-Service←

2. When the twist grip is at the - "0" - position (marking) the engine must come to a standstill, if not undertake an adjustment of the locking screws (free from play) on the twist grip housing

3. If the brush drive or the main drive is not set to the "0"-position, the engine may not be started! →agria-Service←

4. Check the electric lines and connections for good condition, replace, if necessary →agria-Service←
5. Maintenance

Engine

5.9 Checking the Engine Oil Level

Before each operation and after 5 operating hours!
- Only with the engine shut off and in horizontal position.
- Clean the oil fill plug (C/4) and its immediate surrounding.
- Remove the oil fill plug, clean the dip-stick with a clean rag and re-insert it all the way – do not screw it in.
- Remove the dip-stick and read the oil level.
- Refill oil, if the oil level is below the lower dip-stick mark. Refill engine oil (see “Specifications”) up to upper level mark on dip-stick.

5.10 Changing the Engine Oil

For the first time after 5 operating hours, after that after every 50 operating hours or annually (whatever comes first). Under high loads or at high temperatures, change the oil already after 25 operating hours.

- Drain and filler plug (C/4).
- To drain the oil, pivot the handlebars upwards. Tilt the machine backwards and to the left. Then drain the oil into a suitable container A.

(We recommend to drain the fuel through the filler neck into a fuel can before draining the oil. Alternatively,

use a suction pump to pump the oil from the machine B)

- Dispose of the waste oil properly!
- Fill in fresh engine oil. For oil filling capacity and quality see specifications.

Fill in the oil using a funnel or similar device if possible C

Only change oil while the engine is still warm, but not hot – danger of burns!
5. Maintenance

5.11 Air Filter

Clean the air filter insert at 3-month intervals but not later than 25 operating hours (earlier in very dusty conditions). To do this, proceed as follows:

- Clean the air filter and its surrounding area.
- Open the snap mechanism (2), fold down the filter cover (1) and remove it.
- Remove the paper element (3).
- Tap the element against a smooth surface or blow compressed air against the inside of the filter.

Never brush the filter because this would press the dirt into the fibres.

- Replace the filter element if it is extremely dirty.
- Inspect the filter element carefully for holes or other damage and replace it if necessary.
- Replace the filter element
- Attach the cover and snap the latches (4) into place.

Do not wash the paper element (tap it or blow it out)
5. Maintenance

5.12 Fuel System

- Each time you maintain the machine, check fuel hose, fuel tank, and carburetor for leakages and repair, if necessary. Immediately replace leaking or porous fuel hoses.
- Replace fuel hoses after every 2 years.
- Clean the fuel tank at 100-hour intervals.

Clean the fuel strainer at 100-hour intervals.
To do this, drain all fuel into a suitable container.
Clean the fuel strainer with a cleaning solvent and inspect it for damage.
Replace the fuel strainer.

Excessive Fuel Supply

- After excessive fuel supply to the engine, remove the spark plug, clean and dry it. Then crank the engine with the recoil starter a number of times. Afterwards screw the spark plug in and move the speed control lever to "FULL THROTTLE". Then start the engine via the recoil starter.
5. Maintenance

5.13 Spark plug
- After 50 operating hours, clean the spark plug and re-adjust the electrode gap to 0.7–0.8 mm. Only clean the spark plug using a wire brush and wash it out with a commercial cleaning agent.
- Replace the spark plug at 100-hour intervals or when it shows significant wear or if the insulator is damaged.

Correct spark plug assembly:
Screw the spark plug into the cylinder head by hand. Then continue with a spark plug wrench. Turn wrench by 90° or at a torque of 20…30 Nm.

Checking the ignition sparks:
Remove the spark-plug, clean it and place it back into the plug connector. Use the lateral electrode to make contact with the engine, pull the starter rope and wait for sparking. If there are no sparks, replace the spark plug.

5.14 Cooling fan grille
After prolonged operation, the cooling system may become clogged by dirt etc. To avoid any overheating and damage to the engine, regularly clean the cooling fan grille (C/3).

Check before each operation!

5.15 Air cooling system
1) Clean the rotating strainer at 50-hour intervals as a minimum (earlier in very dusty and trashy conditions). To do this, remove the recoil starter. See the illustration below.
2) Clean the internal cooling fins and surfaces at 100-hour intervals as a minimum (earlier in very dusty and trashy conditions).

agria Service
5. Maintenance

5.16 Governor
For smooth engine performance keep governor linkages, springs and actuating devices clean and free from dust and dirt. Do not bend or twist parts. (Governor linkages on carburetor C/6).

5.17 Exhaust system
Regularly clean the area around the exhaust (C/9) from grass, dirt, and inflamable deposits.
– Risk of fire!
Check before each operation.

5.18 Speed Control
Devices for actuating engine speed must be adjusted correctly to start, operate and shut off the engine at correct speed rates.

For this adjustment:
agria - Service

5.19 Carburetor settings
To compensate for fuel, temperature, height or load variations, a slight carburetor re-adjustment may become necessary. Only let the engine run with the air filter and air filter cover mounted.

For this adjustment:
agria - Service
5. Maintenance

5.20 General

1. Watch out for fuel and oil leakage and repair, if necessary.
2. Regularly check bolts and nuts for tight fit and retighten, if necessary.
3. Slightly grease all gliding and moving parts (e.g. rod that pivots the implement, etc.) with Bio-lubricating grease and Bio-slushing oil (refer to “Lubrication Chart”, page 37).

5.21 Cleaning

1. On no account spray water into the fan slots in the drive housing!

After each cleaning (washing with water, especially with pressure washer) lubricate all lubrication points, oil and let the sweeper run for a short time to press water out.

2. Clean the 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

5.22 Storage
For longer periods of no operation
a) Clean thoroughly
   Repair paint coat
b) Engine preservation
   ● 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. 0.03l) of engine oil into the spark plug opening. Slowly crank the engine.
   ● Re-fit the spark plug and set the piston to compression via the recoil starter (pull the starter grip until resistance is felt) – valves are closed.
   ● Slowly crank the engine after every 2–3 weeks (spark-plug connector is removed). Then set the piston to compression again.

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

d) Disengaging the Drives
   Always park the machine with wheel drives disengaged (position “0”) to avoid clutch problems.

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.
1 Engine oil 8 h (page 30)
2 Wheel shafts annually. (page 29)
3 Rod etc. annually. (page 35)

**Electrical Wiring Diagram**

1 Engine
2 Switch in safety circuit lever (closed contact)
3 Switch in clutch lever (open contact)
4 Switch on Hydrostatic 0-position (closed contact)
5 Electrical cable set to Hydrostat
6 Electrical cable set to engine
7 Electrical cable set to handlebars

- **sw** = black
- **gr** = gray
- **br** = brown
- **bl** = blue
### 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>Engine does not start</td>
<td>- Wheel drive and brush drive not in position 0</td>
<td>Set the twist grip and clutch lever to position &quot;0&quot;</td>
<td>23</td>
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<tr>
<td></td>
<td>- Spark plug connector not connected</td>
<td>Connect spark plug connector</td>
<td></td>
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<tr>
<td></td>
<td>- Speed control lever not in position CHoke</td>
<td>Move speed control lever to position &quot;CHoke&quot;</td>
<td>23</td>
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<tr>
<td></td>
<td>- Fuel tank empty or poor fuel</td>
<td>Fill fresh fuel</td>
<td>22</td>
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<tr>
<td></td>
<td>- Fuel line clogged</td>
<td>Clean fuel line</td>
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<tr>
<td></td>
<td>- Defective spark plug</td>
<td>Clean, adjust or exchange spark plug</td>
<td>33</td>
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<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>33</td>
</tr>
<tr>
<td></td>
<td>- Inleaked air due to loose caburetor and suction line</td>
<td>Tighten attachment bolts</td>
<td></td>
</tr>
<tr>
<td>Misfirings in engine</td>
<td>- Engine running in CHoke range</td>
<td>Move speed control-lever to operating position, if necessary, adjust speed control</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>- Loose ignition cable</td>
<td>Fit connector tightly on spark plug, fix ignition cable retaining device</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>- Clogged fuel line or poor fuel</td>
<td>Clean fuel line, fill fresh fuel</td>
<td>22</td>
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<tr>
<td></td>
<td>- Vent opening in fuel tank cap clogged</td>
<td>Exchange fuel tank cap</td>
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<tr>
<td></td>
<td>- Water or dirt in fuel system</td>
<td>Drain fuel and fill fresh fuel</td>
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<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter or exchange</td>
<td>31</td>
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<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>34</td>
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<tr>
<td>Excessive temperature in engine</td>
<td>- Low engine oil level</td>
<td>Refill oil immediately</td>
<td>30</td>
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<td></td>
<td>- Impaired cooling</td>
<td>Clean cooling fan grille, clean internal cooling fins</td>
<td>33</td>
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<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>33</td>
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<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>34</td>
</tr>
<tr>
<td>Misfirings in engine at high speeds</td>
<td>- Short firing intervals</td>
<td>Adjust spark plug</td>
<td>33</td>
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<tr>
<td></td>
<td>- Incorrect idle mix</td>
<td>Adjust carburetor</td>
<td>34</td>
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<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>33</td>
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<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
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<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>31</td>
</tr>
<tr>
<td>Engine does not run smoothly</td>
<td>- Speed control linkages are clogged or jammed</td>
<td>Clean speed control linkages</td>
<td>34</td>
</tr>
</tbody>
</table>
### 6. Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Remedy</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
<td>Engine does not stop when set to stop</td>
<td>- Speed and engine stop are not properly adjusted</td>
<td>Readjust speed control</td>
<td>34</td>
</tr>
<tr>
<td>Engine output too low</td>
<td>- Loose cylinder head or damaged gasket</td>
<td>Tighten cylinder head, exchange gasket</td>
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<td></td>
<td>- Poor compression</td>
<td>Have engine checked</td>
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<td></td>
<td>- Air filter clogged</td>
<td>Clean the air filter</td>
<td>31</td>
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<tr>
<td>Brush drive does not stop with disengaged clutch</td>
<td>- Incorrect hand clutch lever adjustment</td>
<td>Adjust hand clutch lever</td>
<td>28</td>
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<tr>
<td>Wheel drive does not stop in position &quot;0&quot;</td>
<td>- Incorrect twist grip adjustment</td>
<td>Adjust twist grip</td>
<td>29</td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>- Attachment bolts loosened</td>
<td>Tighten attachment bolts</td>
<td>35</td>
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<tr>
<td></td>
<td>- Loose tensioning anchorage on rotary brushes</td>
<td>Immediately turn off engine!</td>
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<tr>
<td></td>
<td></td>
<td>Check tensioning anchorage and all bolts and nuts for tightness, exchange damaged parts</td>
<td>19</td>
</tr>
</tbody>
</table>

* = For this purpose contact your agria workshop.
**Inspection and Maintenance Chart**

<table>
<thead>
<tr>
<th>Task</th>
<th>P</th>
<th>A</th>
<th>5</th>
<th>8</th>
<th>25</th>
<th>50</th>
<th>100</th>
<th>250</th>
<th>min. every 3 months</th>
<th>min. yearly</th>
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<tbody>
<tr>
<td>Check safety circuit function</td>
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<td>Check free play of levers</td>
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<td>Check air filter</td>
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<td>Clean cooling grille</td>
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<tr>
<td>Check engine oil level, refill, if necessary</td>
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<td>Clean exhaust</td>
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<td>First engine oil change</td>
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<td>subsequent oil changes</td>
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<tr>
<td>Clean engine, check bolts and nuts</td>
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<td>Check wear of rotary brushes, earlier if required</td>
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<td>Clean air filter insert</td>
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<td>Replace air filter insert, earlier if required</td>
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<td>Clean spark plug, adjust gap</td>
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<td>Replace spark plug</td>
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<td>Clean guide plates, cooling fins, earlier if required</td>
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<td>Clean fuel tank</td>
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<td>Clean fuel strainer</td>
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<tr>
<td>Oil change of the gear of brush drive</td>
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<td>28</td>
</tr>
<tr>
<td>Lubricate all gliding parts</td>
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<td>Grease adjusting spindle</td>
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<td>Check Hydrostat cooling fan</td>
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<td>Check V-belts</td>
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<td>Lubricate driving chains</td>
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<td>Replace fuel hoses</td>
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</table>

**A** = Each time before you take up operation  
**B** = After each cleaning  
**K** = Checks and maintenance to be executed by operator  
**W** = Maintenance to be executed by professional workshop  
**P** = Item no. in lubrication chart  
**=** = After 2 years
Designation of Parts,
Wear Parts

Fig. C
Honda GCV160 Engine
1 Fuel tank cap
2 Starter handle
3 Air strainer
4 Oil fill plug, dip-stick
5 Air filter
6 Carburetor / speed control governor
7 Engine type no. / identification no.
8 Spark plug / spark plug connector
9 Exhaust with guard
10 Fuel tank
11 Fuel tap

Varnishes, Wear Parts
agria Order No.

799 09 Fuel stabilizer pouch 5 g
771 83 Oil suction pump

Varnishes
181 03 Spray varnish birch-green spray tin 400ml
712 98 Spray varnish red, RAL 2002 spray tin 400ml

Wear Parts
761 98 Air filter element
759 99 Spark plug NGK BPR 6ES; BOSCH WR 7DC
765 43 V-belt for wheel drive X13x 760Lp
765 43 V-belt for brush drive X13x 760Lp
784 03 V-belt for brush drive X13x1480Lp
6194 151 Rotary brushes 100 cm coarse
6194 161 Rotary brushes 100 cm fine

Emergency Tyre Repair
713 13 Tyre repair gel bottle 1 l

Ersatzteilliste:
997 157 Cleanstar sweeper type 7100
997 145 Honda engines
Designation of Parts

Fig. C

- Fig. 6

- Fig. 11
Conformity Declaration

<table>
<thead>
<tr>
<th>EG-Konformitätserklärung</th>
<th>CE Déclaration de conformité</th>
<th>EG conformiteitsverklaring</th>
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<tbody>
<tr>
<td>Wir</td>
<td>Nous</td>
<td>Wij</td>
</tr>
<tr>
<td>erklärt, dass das Produkt</td>
<td>déclaraons que le produit</td>
<td>verklaren dat het produkt</td>
</tr>
<tr>
<td>Kehrmaschine</td>
<td>Balayeuse</td>
<td>Veegmachine</td>
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</tbody>
</table>

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

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

La machine est aussi conforme à toutes les exigences respectives selon la directive relative aux machines 2006/42/CE.


La machine est aussi conforme à toutes les exigences respectives selon la directive CE suivante: 2004/108/CE.

It is also conform to all relevant specifications of following EC directive: 2004/108/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-richtlijn: 2004/108/EG.

Möckmühl, den 02.02.2010

Siegfried Arndt
Geschäftsführer

Rudolf Tiggas
Leiter Entwicklung & Konstruktion

Managing Director

Director

Bedrijfsleider

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