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

Brush Cutter 8000

- 8000 511 53 cm
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/17.
For Engine type and number, refer to p38/fig. B/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.

This delivery comprises:

- Operating instructions
- Engine operating instructions
- Rotary mower

Symbols

⚠️ Warning – Danger
⚠️ Important information
بوت
Fuel
Oil
Engine Start
Motordrehzahl
Engine Stop
Air filter
Visual check
Mowing drive
Wheel drive

Fast
Slow
Open (unlocked)
Closed (locked)

See engine operating instructions

→agria - Service←
= contact Your agria workshop

Please observe that only those activities of the engine are described here which are required for operating the brush cutter. All other information on the engine may be taken from the enclosed engine operating instructions!
Designation of Parts

Fig. A

1 Clutch lever for mowing drive (safety fitting)
2 Clutch lever for wheel drive (safety fitting)
3 Shifting yoke
4 Speed control lever
5 Handlebar
6 Adjusting screw
7 Locking screw
8 Engine
9 Front cover (protective cover)
10 Guide (protective cover)
11 Front protection liner (protective cover)
12 Cutter blade
13 Runner
14 Mower housing
15 Wheel
16 Rear protection liner
   (protective cover)
17 Name plate/ID No.
**Recommendations**

**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 unleaded 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 refer to “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.
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Instructions for Unpacking and Assembly

Brush cutter

Preparations for working

1. Cut open the 4 sides of the packaging box and fold them down or pull the machine out using the grasping points A + B

   ➔ page 18

2. Set the steering bar (A/5) to working height

   ➔ page 17

3. Guide (A/10)

   - protection cover -!

   assemble using the screws and plates shown immediately after unpacking and place into working position.

   Only operate the machine if all protective coverings and safety fittings have been placed into the safety position and are in working order!

   1 Mower housing
   2 Guide
   3 Disk 8,4x25x1,6
   4 Screw M8x25
   5 Plastic disk 8,4x25x5
   6 Locking nut M8
   7 Securing disk 8
   8 Screw M8x12
4. Read and note the HONDA engine operating instructions

5. Fill in engine oil
   ➔ see operating instructions for HONDA engine

6. Check engine oil level
   ➔ see operating instructions for HONDA engine

7. Fill in fuel
   ➔ see operating instructions for HONDA engine
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 brush cutter is constructed solely for the cutting of grass and similar plants as well as thin non-wooded scrub in land & forest management, green spaces, and other such areas. However it is not intended for lawn areas in parks! (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 brush cutter 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 brush cutter for road and operational safety each time you take up operation.

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

Teenagers of 16 years or younger may not operate the brush cutter!

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 brush cutter for safe operation. Compliance is for your own safety.

When transporting the brush cutter 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!
1. Safety Instructions

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.
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 brush cutter’s working range.

Staying in danger zone is not permitted.

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

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

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

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 brush cutter.

Operation

Never leave the operator’s position at the steering handle while brush cutter is at work.

Never adjust the operating handles during work – danger!
1. Safety Instructions

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

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

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

In case of damage to the brush cutter, immediately turn off the engine and have it repaired.

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

To prevent the brush cutter 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 brush cutter unattended with the engine running.

Before you leave the brush cutter, turn off the engine.

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

Mowing Attachment

Handle with care! Sharp blades of the mowing knives may cause injuries!

To exchange the mowing knife make sure that you turn screws away from cutting edges.

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

Maintenance

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

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

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

Replace damaged cutting tools.

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

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

Keep brush cutter clean to avoid risk of fire.

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

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

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

Storage

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

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

Engine, Fuel, and Oil

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

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

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,flammable 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 brush cutter away from the spillage before you start the engine.

Make sure fuel is of specified quality.

Store fuel in approved cans only.

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

Read and observe enclosed instructions.

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

Be careful when draining hot oil, danger of burns.

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

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

Electrical System and Battery

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

Explaination of Warning Signs

Attention:

1. Carefully read operator's manual before handling the machine. Observe instructions and safety rules when operating.

Attention after handling the machine. Observe instructions and safety rules when operating.

2. Before each fuel fill, shut off the engine and wait until it has cooled off. No open fire! Do not smoke!

3. The exhaust fumes contain breath poisons - keep distance. Never let the engine run in closed rooms.

4. Keep your distance from hot parts (e.g. engine esp. exhaust). Only touch them when they have cooled down.

5. During operation keep at a safe distance from mowing knives.

6. Wait until all machine components have completely stopped before touching them.

7. Danger - flying objects; keep safe distance of at least 30 m from the machine as long as the engine is running.

8. Risk of tipping over! Do not drive on slopes greater than 20°.

9. When working with the machine, wear individual protective ear plugs and safety goggles.

10. Check engine oil level at least after 8 operating hours.

- Wear solid shoes.
- Wear protective gloves.
## 2. Specifications

**Brush cutter: Type 8000 511**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Working width</strong></td>
<td>53 cm</td>
</tr>
<tr>
<td><strong>Engine:</strong></td>
<td>4-stroke petrol ohv engine (Honda GCV190)</td>
</tr>
<tr>
<td><strong>Max. output</strong></td>
<td>4.8 kW (6.5 PS) at 3,600 rpm</td>
</tr>
<tr>
<td><strong>Torque</strong></td>
<td>max. 13.7 Nm at 2,500 rpm</td>
</tr>
<tr>
<td><strong>Lowest no-load speed</strong></td>
<td>1,550 - 1,850 rpm</td>
</tr>
<tr>
<td><strong>Top no-load speed</strong></td>
<td>3,000 ± 100 rpm</td>
</tr>
<tr>
<td><strong>Fuel:</strong></td>
<td>Conventional petrol, tank capacity 0.91 l</td>
</tr>
<tr>
<td><strong>Fuel consumption</strong></td>
<td>310 g/kWh</td>
</tr>
<tr>
<td><strong>Air filter</strong></td>
<td>Dry filter</td>
</tr>
<tr>
<td><strong>Spark plug:</strong></td>
<td>NGK BPR6ES; BOSCH WR7DC</td>
</tr>
<tr>
<td><strong>Engine oil:</strong></td>
<td>Filling quantity approx. 0.55 l, SAE 10 W-40, SG, SF or higher quality grade</td>
</tr>
<tr>
<td><strong>Mowing Drive:</strong></td>
<td>V-belt clutch with built-in cutter brake, cutter blade with mulching operation</td>
</tr>
<tr>
<td><strong>Travelling Drive:</strong></td>
<td>Worm gear, with claw coupling, gearbox oil SAE 90</td>
</tr>
<tr>
<td><strong>Travelling speed</strong></td>
<td>2.4 km/h</td>
</tr>
<tr>
<td><strong>Driving wheels:</strong></td>
<td>Tyre 3.50-6 AS or 13x5.00-6 AS, Tyre air pressure 0.8 bar</td>
</tr>
<tr>
<td><strong>V-belt:</strong></td>
<td>Travelling Drive: 10x475Li (ZX 497Lw), Mowing Drive: A13x1400Li (A1430Lw)</td>
</tr>
<tr>
<td><strong>Steering handle:</strong></td>
<td>Height-adjustable without tools</td>
</tr>
<tr>
<td><strong>Operability on Slopes:</strong></td>
<td>Max. 20°</td>
</tr>
<tr>
<td><strong>Noise level at operator's ear:</strong></td>
<td>In accordance with EN 11201, LpA = 82.3 dB</td>
</tr>
<tr>
<td><strong>Sound level</strong></td>
<td>In accordance with EN ISO 3744:1995, measured: LWA = 91.2 dB, guaranteed: LWA = 92 dB</td>
</tr>
<tr>
<td><strong>Vibration value</strong></td>
<td>In accordance with ISO 5349, EN836 + A1+ A2, 2.8 m/s²</td>
</tr>
<tr>
<td><strong>Cutting range:</strong></td>
<td>Grass stalks to thin, non-wooden scrub</td>
</tr>
<tr>
<td><strong>Cutting height:</strong></td>
<td>About 50 mm and 75 mm</td>
</tr>
<tr>
<td><strong>Weight:</strong></td>
<td>70 kg</td>
</tr>
<tr>
<td><strong>Dimensions:</strong></td>
<td>l = 1500 mm, b = 660 mm, h = 960 mm, transportation height = 660 mm</td>
</tr>
</tbody>
</table>
3. Devices and Operating Elements

The brush cutter agria type 8000 is suited for the cutting of grass and similar plants as well as thin non-woody scrub in land and forest management, green spaces and other such areas. However it is unsuitable for lawn areas in parks! (due use).

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 use engine to maximum power.

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

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

Cooling System

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

Idle running speed

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

Air Filter

The air filter purifies the air intake. 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.

Choke

The operation of the choke is built into the speed control lever.

- Close the choke for cold starts.
- Open the choke for warm starts and operation.

Fuel tap

The fuel tap (B/11) is on the carburetor.
3. Devices and Operating Elements

3.2 Speed control lever
(Engine Shut-off Switch)

The speed control lever (A/3) on the steering handle serves to control engine speed, to set the CHOKE and to stop the engine. For positions see fig.

The speed control lever also serves as an emergency shut-off. In an emergency, move the lever to position “STOP” to shut off the engine fast!

3.3 Safety circuit

The brush cutter is fitted with safety clutch levers for mowing and travelling operation.

- **Stop position:** When the clutch lever is released (A/1 or A/2) the drive in question is switched off.

The clutch levers also serve as an emergency shut-off.

The clutch levers must be let go in dangerous situations which require quick switching-off, they then swing automatically to the "STOP" position! - the mowing and travelling drive will be switched off.

3.4 Travelling Drive

The travelling drive is transmitted through the gearbox to the driving wheels.

Switching is carried out using the clutch lever (A/2) on the steering bar.

The driving wheels are fitted with a ball-bearing overriding clutch, so that turning when operating the mower is easier.
3. Devices and Operating Elements

3.5 Mowing Drive

The mowing mechanism is driven by use of a V-belt gearbox and V-belt clutch. Switching is made through the clutch lever (A/1) on the steering bar.

The mowing mechanism consists of a cutter blade and is equipped with a cutter brake -safety fitting-.

The blunt blades can be sharpened and slight bending corrected. Replace badly damaged or bent knife by a new one.

⚠️ Only operate the brush cutter if all knives are correctly fitted and tightened into place and if all protective coverings and safety fittings have been placed into the safety position and are in working order!

3.6 Switching to Mowing

The mowing drive is switched on by pulling the clutch lever (A/1) on the steering handle.

The clutch lever is fitted with a locking strap to prevent unintentional engaging. Before pulling the clutch lever (A/1) the locking strap must be pressed down.

The mowing drive is switched off by releasing the clutch lever (A/1) - safety fitting - and is within a short time braked by the cutter brake.

3.7 Switching to Travelling

The travelling drive is switched on by pulling the clutch lever (A/2) on the steering handle.

The travelling drive is switched off by releasing the clutch lever (A/2) - safety fitting.

3.8 Shifting yoke

Both drives can be switched on together using the shifting yoke (A/3).

Before switching on press the locking strap on the clutch lever (A/1) for mowing drive.

On releasing the shifting yoke (A/13) the mowing and travelling drives will be switched off.
3. Devices and Operating Elements

3.9 Steering Handle

Adjusting the steering:

1. Open the adjusting screw A (A/6) by about 1 turn (in an anti-clockwise direction)

2. Open the locking screw B (A/7) by about 3 turns (in an anti-clockwise direction)

3. Swing the steering bar (A/5) to the desired height or completely forward into transportation position and move it across its axis until the positional arrow C points to the set of holes

4. Tighten the locking screw B, approx. 3 turns in a clockwise direction

5. Tighten adjusting screw A by approx. 1 turn in a clockwise direction.

3.10 Transportation Position

Shut off the engine and withdraw spark plug connector

Wear protective gloves.

The steering (A/4) can be swung into a space-saving position for transportation

- Steering handle ➔ Kap. 3.9

Only operate the brush cutter if the steering is fixed in the working position!
3. Devices and Operating Elements

3.10 Cutting height

Shut off the engine and with

draw spark plug connector

Wear protective gloves.

The cutting height is set by adjusting
the two runners (A/13) which are
screwed to the mowing housing.

It is possible to set two cutting heights.

- Basic setting: $I = \text{approx. } 50 \text{ mm}$
- higher cutting height: $II = \text{approx. } 75 \text{ mm}$

### Adjusting:

- Loosen the front screw (2) slightly
- Loosen the rear screw (3) and unscrew completely
- Swing the runner into the next position and insert the rear screw (3) through the runner and spacer into the relevant hole in the mowing housing
- Screw down and tighten the counternut and plate from the inner side of the mowing housing
- Tighten the front screw (2)
- Carry out the same adjusting steps on the other runner.

Both runners must be set to the same height.

3.11 Slinging grips

The grasping points A and B are intended for lifting and loading of the machine and for attaching the holding rope when working on slopes.

**Only use fully functional loading straps!**

Never walk or remain under moving loads. Danger!
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.

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

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

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

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

Be careful when dealing with fuel.

Fuel is easily inflammable and explosive in certain conditions!

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

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

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

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

Please observe the references of the engine operating instructions!
4. Commissioning and Operation

Only operate the machine if all protective coverings and safety fittings have been placed into the safety position and are in working order!

4.2 Starting the Engine

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

Keep feet away from coupled attachment.

Protective covers mounted?

1. Check engine oil level.
2. Mount spark plug connector.
3. Air filter clean?
4. Fuel quantity in tank sufficient?
5. Open the fuel tap.
6. **Cold** engine:
   Move the speed control lever (A/3) to position “CHOKE”
7. **Warm** engine:
   Set speed control lever to 1/3 throttle
8. Set both clutch levers (A/1 + A/2) to position "0"
9. Start engine
   from a position outside the hazardous area
   after the start push speed control lever to position "min"

**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 both clutch levers (A/1 + A/2) to position "0"

2. Set speed control lever (A/3) to "min", let the engine run for about 30 seconds

3. Set speed control lever to "STOP"

4. Close the fuel tap (B/11)

5. Withdraw spark plug connector (B/8) - protection against unauthorised use!

⚠️ Have the engine cooled down before parking the brush cutter in closed rooms.

⚠️ Do not move the choke lever to CHOKE position to shut off the engine – danger of fire!

ℹ️ 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.

ℹ️ The speed control lever also serves to shut off the engine in an emergency situation. If necessary, move this lever to position “STOP” to shut off the engine.
4. Commissioning and Operation

4.4 Driving

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

2. Wear individual protective ear plugs and solid shoes

3. Set speed control lever (A/3) to about 1/2 throttle

4. Engage travelling drive
   - pull the clutch lever (A/2) up to the handle

5. Operate the speed control lever according to the travelling speed

4.5 Stopping

1. Disengage travelling drive
   - Release the clutch lever (A/2)

2. Set speed control lever (A/3) to "min"
4. Commissioning and Operation

4.6 Mowing

1. Start engine as described in “Starting the Engine”
2. Wear individual protective ear plugs, safety goggles and solid shoes
3. Set speed control lever (A/3) to “max”
4. Engage mowing drive
   1. Press locking strap
   2. Pull the clutch lever (A/1) up to the handle:
      The lever should be pulled slowly for two-thirds of its travel so that the mowing rotor has sufficient time to start rotating and the engine does not come to a standstill. The starting up of the mowing rotor may be accompanied by a slipping of the V-belt and the accompanying noise.
      Once the mowing rotor has been set in motion, the clutch lever should be pulled right up to the handle.
5. Engage travelling drive
   - Pull the clutch lever (A/2) up to the handle
     When turning or when moving the mower in reverse it is not necessary to switch off the mowing drive, so that the energy in the rotating rotor is not unnecessarily wasted.

4.7 Stopping

1. Disengage mowing drive and travelling drive
   - release both clutch levers (A/1 and A/2)
2. Set speed control lever (A/3) to “min”
   - After mowing or in case of clogging:
      Disengage travelling drive - the mower comes to a stop, the mowing rotor still continues to move and cuts itself free, afterwards switch off mowing drive
3. Shut off the engine
4. Commissioning and Operation

4.8 Danger zone

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

The machine operator is responsible for accidents or any danger caused to other people or their property.

For this reason the operator must ensure that both other people and animals are at a safe distance of at least 30 m from the machine.

Prior to mowing, establish a safety area around the terrain to be mowed with a distance of at least 30 m (see fig.).

The warnings must indicate that it is prohibited to enter this area.

If the operator should notice that a person or animal is standing within this area, the machine must be shut down without delay and must not be operated again before the area is free again.

Before starting work any foreign objects must be removed from the area to be worked upon. Look out for any objects during operation.

Before starting up check the immediate area (for children).

1. Terrain to be mowed
2. Safety area
3. Warning signs
4.9 Mowing on slopes

Do not drive on slopes greater than 20°.
- Risk of tipping over!

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!

For operation on banks, always turn machine towards the slope!
4. Commissioning and Operation

4.10 Notes for Mowing/Mulching

The rotary mulcher is intended for the maintenance of grass areas which are mowed at irregular intervals. The mulching machine reduces the grass to small pieces which are left in an evenly distributed manner on the mowed area. Therefore the leftover grass does not collect in piles in one area and it serves as a natural form of manure.

Procedure for Mulching

Frequency of mulching: Mulching should be carried out 3 - 4 times per year. The first mulching should be carried out at the beginning of the vegetation period and the last mulching at the end of the vegetation period. Additional mulching should be made dependent on the conditions for the growth of the grass.

Mulching method: Mulch grass which has grown up to 25 cm in height in one single pass - set the cutting height dependent on the strength of growth of the grass.

Mulch grass which has grown higher than 25 cm in two passes, see fig.. Set the cutting height to the higher position II for the first pass, see chapter 3.9 page 18. For the second pass the cutting height can be lowered to the position I.

If the area to be mowed is too thick, overgrown, is rotten or trodden down underneath, it will be necessary to reduce the working width to a suitable amount so that the cuttings do not begin to build up in front of the brush cutter.

If this still happens, switch off the travelling drive so that the brush cutter can expel the cuttings which have gathered together. However, if a blockage should occur, both the travelling and the mowing drive must be switched off, the motor brought to rest and the space cleaned.

The cutting height is governed by the runners and cannot be adjusted. The runners follow the form of the ground. It can therefore happen that when mowing highly uneven areas the cutting height in the whole field is inconsistent.

When mowing please ensure that the runners are always touching the ground.
5. Maintenance

Apart from adhering to operating instructions for brush cutters, it is also important to observe the following maintenance instructions.

**Warning:** Only do maintenance work with the engine shut off. Always remove spark plug connector from spark plug, to avoid accidentally starting the engine while working on the brush cutter or on the engine.

Always wear safety gloves, when working near mowing knives.

5.1 Engine

5.2 Cleaning the Cooling Screen

After long operation, dirt can clog the cooling system. To avoid overheating and damage to the engine:
- Regularly clean cooling screen (B/3). Check each time before you take up operation!

5.3 Air-Cooling System

Clean internal cooling fins and surfaces at least every 100 operating hours (earlier in very dusty conditions), at the latest at the end of a season. Take off fan housing (B/12) when doing this.

5.4 Exhaust

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

**Danger of fire!** Check each time before you take up 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.

5.5 Speed Actuating Devices

Devices for actuating engine speed must be adjusted correctly to start, operate and switch off the engine at correct speed rates.
5.6 Gearbox
- The driving gearbox must be constantly filled with SAE 90 gearbox oil.
- When cleaning always check if any oil has escaped from the gearbox. The inspection can be carried out through the two "peep-holes" in the rear part of the housing cover (D/6).
- If any oil has been found to have escaped, this must be removed immediately.

5.7 Drive-wheels
- Remove the drive wheels from the axle at the end of the season and clean them.
- Fill up the inner part of the hub (E/1) with new grease.
- Thoroughly lubricate the ground face of the bearing (E/2) and the surfaces of the overriding clutch (E/3).
- For full tractive power, mount wheels (A/15) with pointed parts of lugs showing in travel direction (wheels seen from above).
- Do not pull the nut (E/4) up to its limit - the wheel must be able to turn with a little play.
- Secure the nut with a new split-pin.
- Check the tyre air pressure (0.8 bar) regularly. For smooth driving, make sure that there is the same pressure in both tyres.

5.8 Bowden Cables
- Thoroughly lubricate the Bowden cables with Silicone oil.
5.9 Protection Liners

Inspect the front protection liner (A/11) and the rear protection liner (A/16 or D/11) every time before starting up and replace any damaged parts.

⚠️ Only operate the machine if all protective coverings and safety fittings have been placed into the safety position and are in working order!

5.10 Knife Change

⚠️ Shut off the engine
Withdraw spark plug connector

👩‍💻 Wear protective gloves!

- Unscrew and take out the knife screw (F/1), plates (F/2, F/3) and spring washer (F/4) - when pulling out the knife screw (F/1) hold the cutter blade (F/5) and take the screw out by pulling it down fully.
- Take out the cutter blade
- The blunt knife can be re-sharpened and slight bends corrected. - Badly damaged or bent knife must be replaced by a new one.
- Fitting stages are carried out in the reverse order - pay particular attention that the spring washer (F/4) is correctly centred by using the centring plate (F/3), tighten the knife screw to 70 Nm.
- The safety plate (F/2) must be replaced by a new one.

⚠️ Do not use the brush cutter if the knife is not fully fitted and not tightened in place!

The manufacturer’s original design must be used for all replacement parts.

5.11 Re-grinding the Mowing Knife

👩‍💻 Wear safety goggles and protective gloves

After re-grinding re-balance the mowing knife →agria - Service←
5. Maintenance

5.12 V-belt tension for Travelling Drive
- Remove lower cover (D/5)
- Loosen nuts (D/2)
- Tension the travelling drive V-belt (D/9) using the nut (D/3) so far until the V-belt can be pressed through for about another 10 - 15 mm and the mowing drive (D/8) remains loose
- Re-tighten the nuts (D/2)
- Replace the cover (D/5)

\[\text{i} \] Do not tension the V-belt if the nuts (D/2) have not been loosened!

5.13 Switching for Travelling Drive
- The setting must be made in such a way that when the travelling drive is switched on the machine cannot be driven in a reverse direction.
- The setting is made using the Bowden cable screw (H/2) and the adjusting screw on the clutch lever (A/2).

5.14 Switching for Mowing Drive
Regularly inspect the setting of the tensioning roller for mowing drive
- Remove the front plastic cover (A/9) from the brush cutter.

\[\text{i} \] The upper side of the tensioning pulley (G/1) must be approx. 8 mm under the upper level of the housing, where necessary carry out an adjustment by mechanical bending.

\[\text{2} \] When the mowing drive clutch lever is fully pulled in (A/1) the tensioning pulley (G/1) must give enough tension to the V-belt (D/8) - the spring on the cable must be pre-tensioned by approx. 2 mm in comparison with its slack condition - the vibration of the pulley can be removed by use of the Bowden cable screw (H/1) and the adjusting screw on the clutch lever (A/2).
- Replace the plastic cover (A/9) once more.

Only operate the machine if all protective coverings and safety fittings have been placed into the safety position and are in working order!
5. Maintenance

5.16 Changing V-belt

- Remove the front plastic cover (A/9) and the lower cover (D/5)
- Loosen the nuts (D/2 und D/3)
- Slide the engine towards the knife shaft
- Remove the travelling drive V-belt (D/9)
- Remove the belt tensioning device (D/4)
- Take the mowing drive V-belt (D/8) from its pulley (D/10)
- Remove the knife shaft pulley (G/2) from the hub (M6 screw, 3 M6 nuts)
- Remove mowing drive V-belt (D/8)
- Reassemble in reverse order of steps
- Tension travelling drive V-belt
  (see travelling drive V-belt tensioning)
- Check the position of the pulley
  (see Switching for Mowing Drive)
- Replace the front plastic cover (A/9) and lower cover (D/5)

5.16 Cutter Brake

Check the coast-down time of the cutter blade before every start - safety setting -. If the coast-down time after switching off the mower drive from its maximum motor speed is longer than 7 seconds, the brake belt is probably defective or worn and must be replaced.

- Remove the front plastic cover (A/9)
- Replace the brake belt
- Replace the front plastic cover (A/9)
- Check the coast-down time of the cutter blade once more.

Do not use commercial V-belts. Only use original agria V-belts!

Only operate the machine if all protective coverings and safety fittings have been placed into the safety position and are in working order!
5. Maintenance

5.17 General Maintenance

1. Watch out for fuel and oil leakage, repair if necessary.

2. Regularly check screws and nuts for tight fit, re-tighten, if necessary.

5.18 Cleaning

Machine

After cleaning with air-compressed water jets immediately lubricate lubrication points on the machine and operate the machine 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 jets, as water might penetrate into ignition and fuel system and cause malfunctions.

5.19 Disposal

If the machine is no longer to be used, both the remaining fuel and any oil must be drained into sealable containers. The equipment, including the drained liquids, must then be passed on to a re-cycling company for disposal.
### 6. Troubleshooting

**Observe safety instructions!** Have all serious malfunctions on the machine or engine repaired by your agria workshop. They have the proper tools. Improper repairs can only add to the damage.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Possible solution</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engine does not start</strong></td>
<td>- Spark plug connector not connected</td>
<td>Connect spark plug connector</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>- Choke is not in position CHOKE</td>
<td>Set Choke-lever to position “CHOKE”</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>- Fuel tank empty or poor fuel</td>
<td>Fill fresh fuel</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>- Fuel line clogged</td>
<td>Clean fuel line</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Defective spark plug</td>
<td>Clean, adjust or exchange spark plug and start at full throttle</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Engine too much fuel (“flooded engine”)</td>
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<tr>
<td></td>
<td>- Inleaked air due to loose caburetor and suction line</td>
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<tr>
<td><strong>Misfireings in engine</strong></td>
<td>- Engine running in CHOKE range</td>
<td>Set CHOKE-lever to operating position “BETRIEB”</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>- Loose ignition cable</td>
<td>Firmly connect spark plug connector to spark plug, fix ignition cable retaining device, firmly connect connector to ignition cable</td>
<td></td>
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<tr>
<td></td>
<td>- Clogged fuel line or poor fuel</td>
<td>Clean fuel line, fill fresh fuel</td>
<td>19</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>
<td></td>
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<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter or exchange</td>
<td>BM</td>
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<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>BM</td>
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<tr>
<td><strong>Excessive temperature in engine</strong></td>
<td>- Low engine oil level</td>
<td>Refill oil immediately</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Impaired cooling</td>
<td>Clean cooling fan grille, clean internal cooling fins</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>BM</td>
</tr>
<tr>
<td><strong>Misfireings in engine at high speeds</strong></td>
<td>- Short firing intervals</td>
<td>Adjust spark plug</td>
<td>BM</td>
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<tr>
<td></td>
<td>- Incorrect idle mixture</td>
<td>Adjust carburetor</td>
<td>BM</td>
</tr>
<tr>
<td><strong>Engine frequently stalls in idle</strong></td>
<td>- Firing interval too long, defective spark plug</td>
<td>Adjust or replace spark plug</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>BM</td>
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<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>BM</td>
</tr>
<tr>
<td><strong>Engine does not run smoothly</strong></td>
<td>- Governor linkages clogged or jammed</td>
<td>Clean governor linkages</td>
<td>BM</td>
</tr>
<tr>
<td><strong>Engine does not stop when set to stop</strong></td>
<td>- Engine shut-off switch not correct</td>
<td>Check setting of cabling, engine revolution settings</td>
<td>BM</td>
</tr>
</tbody>
</table>
# 6. Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Possible solution</th>
<th>Page</th>
</tr>
</thead>
</table>
| Engine output too low | - Air filter clogged  
- Loose cylinder head or  
  damaged sealing  
- Poor compression | Clean air filter  
Tighten cylinder head,  
exchange sealing  
Have engine checked | BM  
*  
* |
| Travelling drive or mowing drive does not stop when the clutch levers are released | - Incorrect hand clutch lever adjustment | Adjust switching for travelling or mowing drive | *  
30 |
| Excessive vibration | - Attachment bolts loosened  
- Mowing knife loosened, warped or  
  incorrectly adjusted  
- Unbalanced mowing knife | Tighten attachment bolts  
Immediately turn off engine!  
Check all screws and nuts for tightness,  
exchange damaged parts,  
adjust V-belt tension  
Balance mowing knife | 29, 32  
29, 30, 32  
*  
29 |

* = For this purpose contact your agria workshop.  
BM = Engine operating instructions00
### Varnishes, Wear Parts

**agria Order No.**

**Fuel Stabilizer:**
- 79909 Fuel stabilizer pouch 5 g

**Varnishes:**
- 18103 Spray varnish birch-green spray tin 400 ml
- 71298 Spray varnish red, RAL 2002 spray tin 400 ml
- 50968 Spray varnish black spray tin 400 ml

**Wear Parts:**
- 76199 Air filter element set
- 75999 Spark plug NGK BPR6ES; Bosch WR7DC
- 479075 Cutter blade 53 cm
- 28821 Knife screw M12x1,5x30 Qual. 8.8
- 77312 Securing disk SKM12 (for knife screw)
- 479074 V-belt for mowing drive 13x1400 Li
- 479073 V-belt for travelling drive 10x475 Li
- 479080 Front protection liner
- 479003 Rear protection liner

⚠️ **Note:** Only use original agria V-belts!
<table>
<thead>
<tr>
<th>Inspection and Maintenance Chart</th>
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<tr>
<td><strong>Check safety circuit function</strong></td>
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<td><strong>Check cutter brake</strong></td>
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<tr>
<td><strong>Check protection liners</strong></td>
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<tr>
<td><strong>Check air filter</strong></td>
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<tr>
<td><strong>Clean cooling-screen</strong></td>
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<tr>
<td><strong>Check engine oil level,</strong></td>
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<tr>
<td><strong>refill, if necessary</strong></td>
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<tr>
<td><strong>Clean surrounding parts of exhaust</strong></td>
</tr>
<tr>
<td><strong>Check mowing knives</strong></td>
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<tr>
<td><strong>First engine oil change</strong></td>
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<tr>
<td><strong>subsequent oil changes</strong></td>
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<tr>
<td><strong>Cleaning</strong></td>
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<tr>
<td><strong>Check bolts and nuts</strong></td>
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<tr>
<td><strong>Clean air filter insert</strong></td>
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<tr>
<td><strong>Replace air filter insert,</strong></td>
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<td><strong>earlier, if required</strong></td>
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<tr>
<td><strong>Clean spark plug, adjust gap</strong></td>
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<tr>
<td><strong>Clean air-cooling system,</strong></td>
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<td><strong>earlier, if required</strong></td>
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<td><strong>Check V-belt tension</strong></td>
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<td><strong>Check V-belt</strong></td>
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<td><strong>Replace spark plug</strong></td>
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<tr>
<td><strong>Grease wheel hub and free-wheel</strong></td>
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<tr>
<td><strong>Lubricate Bowden cables</strong></td>
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<tr>
<td><strong>Check gearbox for escaping oil</strong></td>
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<td><strong>Replace fuel hoses</strong></td>
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<table>
<thead>
<tr>
<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>
<th>B</th>
<th>page</th>
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<tbody>
<tr>
<td>A</td>
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<td>BM</td>
<td>see engine operating instructions</td>
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<tr>
<td>K</td>
<td>Checks and maintenance to be executed by operator</td>
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<td>Maintenance to be executed by professional workshop</td>
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</table>

A = Each time before you take up operation
B = After each cleaning
BM = see engine operating instructions
K = Checks and maintenance to be executed by operator
W = Maintenance to be executed by professional workshop
* = after 2 years
Designation of Parts

Fig. B

Engine HONDA GCV190

1  Fuel tank cap
2  Starter handle
3  Cooling screen
4  Oil filler plug,
   dip stick
5  Air filter
6  Carburetor,
   speed control device
7  Engine model ID No.
8  Spark plug, spark plug connector
9  Exhaust with exhaust guard
10 Fuel tank
11 Fuel tap
12 Fan housing
Conformity Declaration

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

Wir
Nous
We
Wij

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

erklären, dass das Produkt
declarons que le produit
herewith declare that
verklaren dat het produkt
Produkt
the product

Sichelmulcher
Débroussailleuse à lame
Rotary mower
Cirkelmaaier

mit folgenden EG-Richtlinien
est conforme aux spécifications des directives CE suivantes:
conforms to the specifications of the following EC directives:
overeenkomt met de desbetreffende EG-richtlijn:

übereinstimmt:
spécifications des directives CE:

98/37/EG, 2004/108/EG, 2000/14/EG
98/37/EC, 2004/108/EC, 2000/14/EC
98/37/EG, 2004/108/EG, 2000/14/EG

Angewendete Normen:
Standards appliqués:
Applied standards:
De volgende normen zijn toegepast:


Angewandtes Konformitätsbewertungsverfahren:
La procédure appliquée pour l'évaluation de la conformité:
Conformity assessment procedure followed:
Gevolgde overeenstemmingsbeoordelingsprocedure:

Anhang VI

Name und Anschrift der beteiligten benannten Stelle:
Le nom et l'adresse de l'organisme notifié:
Name and address of the notified body involved:
naam en adres van de betrokken aangemelde instantie:

NB 1017, TÜV CZ s.r.o., Novodvorská 994, 142 21 Praha 4 - CR

Gemessener Schalleistungspegel:
Le niveau de puissance acoustique mesuré:
Measured sound power level:
Gemeten geluidsvermogensniveau:

91,2 dB(A)

Garantierter Schalleistungspegel:
Le niveau de puissance acoustique garanti:
Guaranteed sound power level:
Gewaarborgd geluidsvermogensniveau:

92 dB(A)

Möckmühl 21.07.2009

Siegfried Arndt
Geschäftsführer
Directeur
Managing Director
Bedrijfsleider

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

agria Brush Cutter 8000
Your local *agria* specialist dealer: