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

Operating Instructions No. 998 745 04.15
Symbols, Name Plate

Please complete:

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

For name plate, refer to p3/fig. A/9.
For engine type and number, refer to p3/fig. B/6.
Please state these data when ordering spare parts to avoid wrong deliveries.

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

This delivery comprises:
- Operating instructions
- Multi-purpose base machine
- Tool kit

Symbols:

- ! Warning – Danger
- Information
- Fuel
- Choke
- Oil
- Mowing drive
- Travelling drive
- Forward
- Reverse
- Open (unlocked)
- Closed (locked)
- PTO

Contact Your specialised agria-workshop
Designation of Parts

A

B

agria Multi-Purpose Machine 400P
Designation of Parts

Figure A

1. Pto speed engagement lever
2. Linkage for front attachments
3. Transmission oil plug (filling and checking oil level)
4. Linkage for rear attachments
5. Grooves on wheel shaft
6. Wheel shaft
7. Gearbox cover/Transmission oil drain opening
8. Pto/pto guard
9. Name plate (machine identification no.)
10. Handlebar
11. V-belt guard (V-belt clutch)
12. Drive wheel
13. Drive-wheel detent spring
14. Guard

Figure B

1. Air filter
2. Carburetor
3. Fuel tank cap
4. Fuel tank
5. Choke lever
6. Engine type no.
7. Starter handle
8. Cooling air-screen
9. Exhaust with guard
10. Spark plug/spark plug connector
11. Engine oil filler plug and dip-stick
12. Engine oil drain plug
13. Fuel tap
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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 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

- Open the box top.
- Cut the two rear corners open and fold down the side.
- Remove the steering handle attachment bolt (3 + 4).
- Pivot the steering handle (2) upwards. Then attach and tighten the bolt (3 + 4).
- Attach the drive wheels (see instructions on page 20).

Starting-up
See instructions on page 33.

E

1 Base machine
2 Steering handle
3 Steering handle attachment bolt
4 Hex nut
5 Drive wheels (accessory items)
1. Safety Instructions

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

Warning

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

Due Use

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

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

When the multi-purpose machine is used on public roads, the local national road traffic rules must be observed, e.g. reflectors, lights.

The multi-purpose machine is not intended for use with a trailer on public roads or as as a tractor unit without implements.

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

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

General Instructions on Safety and Accident Prevention

Basic Rule:

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

When driving on public roads, you have to observe the current traffic code.

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

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

Teenagers younger than 16 years are not allowed to operate the machine!

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 tractor for safe operation. Comply for your own safety.

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

Careful with rotating tools – keep at a safe distance!

Foreign powered parts shear and crush!

Riding on the attachment during operation is not permitted.
1. Safety Instructions

Mounted or trailed attachments affect the tractor’s driving, steering, braking, and tipping characteristics. Therefore, ensure that 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 Dangerous Area

The user is liable to third parties working within the tractor’s working range. Staying in hazardous area is not permitted.

Check the immediate surroundings of the tractor 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 guards in place.

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

Starting the engine

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

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

When starting the engine, do not step in front of the machine and the attachment.

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

Operation

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

Never adjust the handles during work - danger!

For any operation do not leave the operator’s position as defined by the steering handle, especially not when you turn the machine.

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

If blockages occur in the attachment, turn off the engine and clean the attachment with an appropriate tool.

In case of damage to the multi-purpose machine or to the attachment, immediately turn off the engine and have it repaired.

If steering causes problems, immediately bring the machine to a halt and turn it off.

Have the malfunction removed without delay.
1. Safety Instructions

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

If possible, always work horizontally to the slope.

End of Operation

Never leave the multi-purpose machine unattended with the engine running.

Before you leave the machine, turn off the engine. Then close fuel taps.

Secure the machine against unauthorized use. If tractor is equipped with an ignition key, remove the key. For all other versions, remove the spark plug connector to secure the tractor.

Attachments

Only mount attachments with the engine and PTO switched off.

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

To fit and remove attachments, bring the support leg into proper position and ensure stability.

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

Beware of injuries while coupling attachments.

Couple the attachments as specified and only couple at specified points.

Secure the machine and attachment against unauthorized use and rolling off when you leave the machine. If necessary, install transport or safety devices to provide protection.

Hoeing Attachment

Adjust the guards in such a way that only the sets of blades penetrating the soil are not covered.

When hoeing, make sure the depth bar is adjusted properly.

Mowing Attachment

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

For transport and storage always fit the knife guards. Secure finger bars additionally with tension springs.

Do not transport the removed cutter bar without knife guards.

When fitting/removing the cutter bar, make sure all blades are protected by the knife guards.

To exchange the knife and to fit/remove the knife driver, make sure that you turn screws and bolts away from the cutting blades to remove them.

To grind the mowing knives, always wear safety goggles and gloves.

Weights

Always fit weights properly and at specified points.

Maintenance

Never carry out any maintenance or cleaning while the engine is running.

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

Check regularly and, if necessary, replace all guards 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 the machine and the attachment clean to avoid risk of fire.
Check nuts and bolts regularly for tight fit and re-tighten, if necessary.
Ensure that you re-install all safety and guards and adjust them properly after maintenance and cleaning.
Only use original agria spare parts. All other conventional spare parts must correspond to quality and technical requirements specified by agria.

Storage
It is not allowed to store the machine in rooms with open heating.
Never park the machine in closed rooms with fuel left in tank. Fuel vapours are hazardous.

Engine, Fuel, and Oil
Never let the engine run in closed rooms. Extreme danger of intoxication! For the same reason, also replace damaged exhaust pipes immediately.
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 machine 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 used is of specified quality. Storage is in approved cans only.
Dispose of oil, greases, and filters seperately and properly.

Tyres and Tyre Pressure
When working on the tyres, make sure the machine 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 air pressure in the tyres. Excessive pressure may cause bursts.
1. Safety Instructions

When adding weight, make sure the tyre pressure is correct.

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

**Electrical System and Battery**

When working on the electrical system, make sure the battery is disconnected (negative terminal) (for tractors equipped with battery).

Make sure to connect the battery properly – first connect the positive terminal and then negative terminal. Disconnect in reverse order.

Be careful with battery gases – explosive!

Avoid spark discharge and open flames near batteries.

Remove plastic cover (if equipped) to recharge battery and to prevent highly explosive gases from building up.

Careful when handling battery acid!

Only use specified circuit breakers. If the circuit breakers are too strong, they will destroy the electrical system – danger of fire.

Always cover positive terminal with the specified cover or terminal cap.

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

---

**Explanation of Warning Signs**

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

With the engine running, keep at a safe distance from hoeing or cutting tools.

Do not work without guards in place. Before starting the engine, bring guards in proper position.

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

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

With the engine running, keep at a safe distance.

Only drive the attachment at speed “I”.

**Signs**

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

Multi-purpose machine

**Dimensions:**

- \(a\) ........................................ 100 mm
- \(b\) ........................................ 630 mm
- \(c\) ......................................... 160 mm
- \(d\) ........................................ 380 mm
- \(e\) ........................................ 700 mm
- \(h\) ......................... 860–1080 mm
- \(l\) ........................................ 1200 mm
- \(A\) .............. (13x5.00 - 6) 525 mm
- \(A\) ..................... (3.50 - 6) 440 mm
- \(A\) (Twin tyres 3.50 - 6) ..... 857 mm
- \(A\) ..................... (4.00 - 8) 640 mm
- \(A\) Hoeing tools .......... 450–650 mm

**Tyres:** (Accessory) .................
- 13x5.00-6 (Grassland tyre)
- 3.50 - 6 und 4.00 - 8 (Field tyre)

**Tyre pressure:** ................ 1.0 bar

**Clutch:** ......................... V-belt clutch with idler pulleys between engine and gearbox
Friction clutch for reverse speed

**Only use original agria V-belts!**
(List of wear parts p49)

**Transmission:** ................. Worm gear with free-wheel drive mechanism on drive wheels
Transmission oil SAE 90-API GL5
Filling quantity approx. 0.5 l

**Speeds:** ................ 3 forward speeds (moving V-belt to another pulley)
1 reverse speed (friction wheel)
see table below

**Steering handle:** ... vibration damping, height-adjustable, side-adjustable without tools

**Weight:** ......................... Approx. 50 kg

**Noise level:**
Noise level ...................... \(L_p = 84\) dBA
in accordance with EN 11201 (at operator's ear)

Acoustic power level \(L_{WA} = 96,1\) dB(A)
in accordance with EN ISO 3744

**Vibration acceleration value:**
on handlebar: ................ \(a_{\text{hw}} < 2.5\) m/s²
in accordance with ISO 5349 at 85% of rated engine speed with tool at work.

<table>
<thead>
<tr>
<th>Speed</th>
<th>Revolutions Wheel shaft ([rpm])</th>
<th>Pto ([\text{km/h}]) Tyres</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(i_{\text{tot}}) (n_{\text{dw}}) (n_{\text{pto}})</td>
<td>13x5.00-6 3.50-6 4.00-8</td>
</tr>
<tr>
<td>I</td>
<td>67.5 65 1650</td>
<td>3.2 3.6 4.4</td>
</tr>
<tr>
<td>II</td>
<td>42.7 85 2550</td>
<td>5.0 5.6 6.9</td>
</tr>
<tr>
<td>III</td>
<td>28.1 125 3750</td>
<td>7.3 8.3 10.1</td>
</tr>
<tr>
<td>R</td>
<td>61.7 58 1740</td>
<td>3.4 3.8 4.7</td>
</tr>
</tbody>
</table>
2. Specifications

Engine

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

Engine type: ............... GX 200 QHQ4

Version: .................. Fan-air cooled
1-cylinder, 4-stroke
petrol ohv engine

Bore: .......................... 68 mm
Stroke: .......................... 54 mm
Cubic capacity: .................. 196 ccm

Compression ratio: ............... 8.5 : 1

Output: .......................... 4.8 kW
at 3,600 rpm

Max. torque: .................... 13.2 Nm
at 3,000 rpm

Spark plug: .................. NGK BPR6 ES
Spark plug gap: ............... 0.7–0.8 mm

Ignition system:
Contactless solenoid ignition, ignition
point is pre-set, radio remote
screened according to VDE 0879

Valve lash (engine cold):
Intake: .................. 0.15 mm ± 0.02 mm
Outlet: .................... 0.20 mm ± 0.02 mm

Starter:
Soft-pull recoil starter with mechanical
decompression facility

Fuel tank capacity: ............... 3.6 l

Fuel: Standard regular grade petrol for
motor vehicles, octane number see
engine operating instructions

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

Drivetrain:

Carburetor: ............. Throttle valve type

Mixture control screw:
opened approx. 2 1/8 turns in base
setting

Rated speed: .............. 3,600 rpm
Top no-load speed: ........ 3,850 rpm
Idling speed: ............ 1,250–1,600 rpm

Engine oil:
Filling quantity ............. approx. 0.6 l
Multi-grade oil SAE 10 W-40
SJ or higher quality grade

Operability on Slopes:
Continuous operation possible
up to .................. 20° inclination (37 %)
Temporary operation possible
up to .................. 25° inclination (47 %)
(with oil level at “max” = upper level
mark)
3. Devices and Operating Elements

The agria multi-purpose machine type 400 is a base power machine and is always operated with an attachment mounted. Therefore, the machine is suited for horticultural, agricultural, forestal operations, as well as for grass-land and park maintenance and for winter service work.

Available attachments are:

- hoeing and tilling
- mowing
- turf and grounds care
- ploughing
- sweeping
- gravel and salt spreading
- snow dozing and rotary snow cleaning
- transporting

Engine

The four-stroke petrol engine runs on conventional petrol (refer to fuel recommendations p6). During the first 20 operating hours (break-in period) do not use engine to maximum power. Even after the 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 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 screen at recoil starter and cooling fins of 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 purifies the air intake. A blocked 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. Devices and Operating Elements

Speed Control Lever

The speed control lever (C/9) on the steering handle is for stepless setting of engine speed from min. = idle to max. = full throttle.

Safety circuit

The multi-purpose machine is equipped with a safety circuit lever.

1. **Stop position**: When releasing the lever (C/4) the ignition system is switched off (engine is shut off). Beware – engine keeps running due to centrifugal mass.

2. **Start position**: For starting the engine and for short breaks, pull the clutch lever (C/5) and lock with pawl (C/6).

3. **Operating position**: To operate the machine, press down the safety circuit lever (E/3 or G/3).

⚠️ **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.

Choke

The choke lever (B/5) is on the carburetor.

1. **Close the choke for cold starts.** To do this, move the lever to the left.

2. **Open the choke for warm starts and operation.** To do this, move the lever to the right.
3. Devices and Operating Elements

**Fuel tap**

The fuel tap (B/13) is on the carburetor.

1. Move the tap to the right to open it.

2. Move the tap to the left to close it.

**Clutch**

The multi-purpose machine is equipped with a V-belt clutch with integrated reverse shift. Operation is via the clutch lever (C/5).

The machine is decoupled when you pull the clutch lever until pawl locks into place. Now, the engine stops driving the machine. The clutch lever can be locked with pawl (C/6) when the machine is decoupled.

To avoid clutch slipping away during operation, a clutch play is factory-set at the clutch lever (refer to “Maintenance”).

After the first operating hour, the clutch play has to be checked and, if necessary, re-adjusted (refer to “Maintenance”).
3. Devices and Operating Elements

Travelling Drive

Forward – Reverse

The multi-purpose machine is equipped with a clutch-integrated FR-gearshift, which is operated with the clutch lever (E/4 or G/4).

1. Travelling drive forward speed:
Move clutch lever down (C/5) – the pawl is unlocked.

2. Travelling drive idling speed:
Clutch lever (C/5) is pulled approx. half way – the pawl is locked.

3. Travelling drive reverse speed:
Pull clutch lever (C/5) all the way up.
Pawl (C/6) is for locking the clutch lever in idling position (“0”).

On slopes, always turn machine towards the slope.

Note: Always park machine with clutch lever pulled (“0” – pawl locked), otherwise clutch problems may arise due to deformation of V-belt.

Speeds

To change speeds, move the V-belt to another idler pulley (D/12) - see fold-out page 54.

Before you move the V-belt, stop the engine and remove the spark plug connector.

- Remove nut (D/10) to remove the belt guard (D/8) and the belt guide plate (D/7).
- Lock the clutch lever (D/4) in neutral position. This ensures that the idler pulley (D/1) does not to press against the V-belt.
- Move the V-belt (D/12) to the desired pulley (only use your hands, do not use pointed or sharp tools. Otherwise the V-belt will be damaged).
- Replace V-belt guide plate (D/7). Push the guard (D/7) onto pins (D/4) and close it.
- Fit nut (D/10) with spring washer (D/9) and tighten.

Only drive pto-driven attachments at speed “1”.
3. Devices and Operating Elements

Figure: V-belt is in “speed I” position.

On the V-belt guard to the left there is a small window to monitor the current speed, i.e. on which pulley the belt is currently running.

**Recommended speeds**

<table>
<thead>
<tr>
<th>I</th>
<th>Pto-driven attachments</th>
<th>Rotary snow cleaner, mowing, sweeping, spreading, shredding, spraying, ploughing</th>
</tr>
</thead>
<tbody>
<tr>
<td>II</td>
<td>Surface work not pto-driven</td>
<td>Snow dozing, transport work</td>
</tr>
<tr>
<td>III</td>
<td>Rotary cultivation</td>
<td>Hoeing, ridging</td>
</tr>
</tbody>
</table>

**Wheel drive**

The multi-purpose machine is equipped with drive-wheel engagement and a wheel drive. This can be engaged/dis-engaged via a selector sleeve and from the handlebar.

**Wheel drive engaged:**

Move wheel drive lever (C/11) down to unlock the pawl.

**Wheel drive disengaged:**

Move wheel drive lever (C/11) up to lock the pawl.

With the engine running, the wheel drive is engaged the following way:

- Pull the clutch lever (C/5) to middle position (neutral) and hold.
- Unlock pawl (C/10).
- Move hand lever for wheel drive (C/11) down.
- Slowly release the clutch lever (C/5) while pressing the throttle.

In case wheel drive cannot be engaged, couple and decouple. Then engage wheel drive.
3. Devices and Operating Elements

Drive-Wheels

Only mount and dismount drive-wheels with engine turned off.

The drive-wheels are equipped with a detent spring (1) and can be mounted and adjusted without tools.

The detent spring engages into a ring groove on the wheel-shaft to hold the drive-wheel.

On each side of the wheel-shaft there are 2 ring grooves respectively. With detent spring engaging into outer ring groove, the drive-wheel turns in neutral on wheel-shaft. With detent spring engaging into inner ring groove, the drive-wheel engages with a toothed wheel on the wheel-shaft to be driven by the same.

Mounting drive-wheels

For full tractive power, mount field tyres with the tread profile pointing in travel direction (seen from above).

- Lift detent spring (1) slightly and place into assembly position (fig. J) (front ring groove on hub).
- Mount drive-wheels onto wheel-shaft, with the side for the detent spring pointing outwards.
- Let detent spring engage in a ring groove again (fig. K and L).
- Brush Bio-lubricating grease onto both ends of wheel-shaft (small diameter of wheel-shaft).

For dismounting drive-wheels, proceed accordingly but in reverse order.
3. Devices and Operating Elements

Engagements of Drive-Wheels

- **Rigid drive:** Push both drive-wheels inwards to a stop, engage detent springs into inner ring grooves (fig. K). If detent springs do not engage, turn drive-wheels slightly and push them axially inwards until you feel toothed clutch wheel engage.

- **Neutral:** Push both drive-wheels outwards and lock detent springs into outer ring groove (fig. L).

- **Drive with differential effect:** Engage one drive-wheel into inner ring groove (fig. K), engage the second drive-wheel into outer ring groove (fig. L) – neutral.
3. Devices and Operating Elements

**Anti-Winding Tubes**

On both ends of the wheel-shaft, anti-winding tubes are mounted between transmission housing and drive-wheel (fig. M). Generally, these tubes prevent grass from winding onto shaft. Remove wound-on grass by simply dismounting drive-wheels and anti-winding tubes without tools.

**Twin-Wheels**

- Dismount single drive-wheels.
- Mount twin-wheels onto wheel-shaft (as described in “Mounting Drive-Wheels”).
- Fit special anti-winding tubes onto wheel-shaft of twin-wheels – ensure that valves fit into recesses.
- Mount single drive-wheels onto full dog points of twin drive-wheels.

**Cage Drive-Wheels**

- Dismount drive-wheels.
- Mount cage drive-wheels onto wheel-shaft (as described in “Mounting Drive-Wheels”).

⚠️

- Rigid drive,
- neutral,
- drive with differential effect can also be engaged with twin and cage drive-wheels mounted.
3. Devices and Operating Elements

**Drive-wheels 4.00-8 Field tyre with differential hubs**

The differential hubs are to facilitate steering and turning and are used for ploughing and mowing.

**Fit the differential hubs**

Push the differential hubs (2) on the wheel shaft (1).

- Insert the hex bolts (4) together with the star washers (3) into the borings of the hub pipe and wheel shaft and tighten at a torque of 80 Nm.
- Use wheel bolts (7) and bevel spring washers (6) to fit the drive-wheels (5) to the differential hubs (torque of wheel bolts is 80 Nm).

For full tractive power, fit the drive-wheel with the pointed parts of lugs showing in travel direction (seen from above).

**Remove the drive-wheels**

To remove the drive-wheels reverse the above process.
3. Devices and Operating Elements

Differential Hubs

The differential effect of hubs is factory-set.

However, you can also fit them rigidly. For this purpose, proceed as follows.

● Remove clip (4) with a pair of pliers.
● Slightly pull the wheel flange (2) outwards. Twist it until the cam is between both pins.
● Then push the wheel flange all the way onto the differential hub and fit the clip.

Use a grease gun to lubricate lubrication nipple (3) (with Bio-grease) after every 50 operating hours or after pressure cleaning.

Wheel weights

Drive-wheels 4.00-8 with differential hubs can be fitted with wheel weights (Item no. 0421 011).

Fitting wheel weights

To fit wheel weights (2) onto the wheel flange, use hex bolts(4) and star washers (3). (Torque 80 Nm)
3. Devices and Operating Elements

Pto drive

Switching on the pto:
Move the pto lever (C/7) to the rear and up to a stop.

Switching off the pto:
Move the pto lever to the front and down.

If it is not possible to move the pto lever (selector sleeve cannot lock into drive shaft pin), then shortly lift the clutch lever (C/5) all the way to reverse while operating the pto lever. To do this, the engine has to be in neutral (not full throttle).

Stand

The machine 400P is equipped with a stand on the base machine, which allows the machine to be parked more easily after the attachment has been decoupled.

To do this, push on the stand from the right side and push it down. Take the force off and move the stand further down until it locks.

To fold the stand up, reverse the above process.

Note: Before you take up operation, fold up the stand.
3. Devices and Operating Elements

**Steering Handle**

**Steering handle height adjustment**
- Remove the knob screw (2) from the square clamping piece (3) and remove it from the steering bar joint.
- Adjust the steering handle to the desired height and fit it into proper boring of the steering bar joint.
- Insert the knob screw and bolt it down to the clamping piece (3). (Ensure that nose of clamping piece (3) locks into the long hole the steering bar joint).

**Steering handle side adjustment**
- Loosen knob screw (1) until all notches are free.
- Swivel the steering handle to the desired position and fit into proper notch.
- Re-tighten knob screw.
3. Devices and Operating Elements

Attachments

⚠️ Only couple and decouple attachments when the engine is stopped. Secure attachments against rolling off. Watch out to avoid getting bruised when coupling the attachment.

Front attachments

Most front attachments are attached to the base machine by two tensioning devices. Before you couple and decouple the attachment park the machine on level ground.

Coupling

- Move pto lever to “0”.
- Remove cap (f) from the pto.
- Rest the attachment on the stand (c), if equipped.
- Bring tensioning bands into starting position:
  1. Move both tensioning levers (a) to the rear,
  2. pull both tensioning bands (b) towards the side while you
  3. move both tensioning levers back to the front.
### 3. Devices and Operating Elements

- Move the base machine to the attachment. Hook the machine up to the pin (e) on the attachment.
- Couple the attachment with tensioning system:
  1. Move both tensioning levers (a) to the rear,
  2. until tensioning bands (b) lock into the slots of the attachment linkage point,
  3. move both tensioning levers back to the front to a stop.
- Move the stand (c) back up and lock.

It will be easier to move the springs of the tension levers back to their original position, if the wheels are in position “NEUTRAL” (see chapter “Wheel drive” on page 21)

**Decoupling**

To decouple the attachment reverse the above process.

Fit the cap onto the pto shaft of the base machine.

**Warning**

Only drive pto-driven attachments at speed “I” (slow).

Only operate attachments only with all guards in place.

Observe the operating instructions of the respective attachments!
3. Devices and Operating Elements

Rear Attachments

Most rear attachments are linked to the hitch with a pin (7) (accessory). The coupling unit (3) is inserted into the rectangular tube (1) underneath the V-belt guard.

Insert square pins (3) into the rectangular tube (1) to a stop and lock with a linch pin (2).

Front Weight

A front weight can be mounted to counterbalance the weight of rear attachments and to improve traction. The front weight support is fitted to the front attachment flange.

For first assembly, fit the hex bolt (1) together with hex nut (2) into the front attachment flange. The bolt serves as a coupling pin to couple the attachment using fast tensioning devices.

The hex bolt remains in its place when the weight support is removed.

Fitting the weight support

- Fit the weight support to the front attachment flange with the central quick tensioning device.
- Push the front weight (2) onto the square pin (1) and squeeze tight with hex bolt (3).

Removing the weight support

When removing the weight support, the weight can stay mounted on it. To remove the weight support, open the quick tensioning device.
Hoeing tools

Hoeing tools:
Base hoeing tools: approx. 45 cm
Base and add-on hoeing tools approx. 65 cm

Fitting the hoeing tools
Only fit/remove the hoeing tools while the engine is shut off and the spark-plug connector is removed! Wear safety gloves!

45 cm working width:
- Fit one hoeing tool (8 and 10) on each end of the hoeing shaft. Ensure that the blades point into travel direction. When fitting a second hoeing tool (either on the left or right side), make sure the knives pointing to the housing are fitted in a staggered way to the knives fitted on the opposite end of the shaft.
- Bolt down hoeing tools with hex bolts (7) through the borings of the hub/hoeing shaft.

65 cm working width:
- Fit the base hoeing tools in the same way as described in 45 cm working width.
- Fit the add-on hoeing tools (accessory No. 1008 111) (6) in the hubs of the base tools.
- Insert R-clips (2) in hub/shaft borings to secure them.
- Attach the extension guards (4) using the attachment bolts (9, 3 +1).

Guard discs
The discs are to prevent shrubs and bushes from being damaged by the hoe and to prevent young plants from being covered with soil. In addition, they offer protection for the operator, when hoeing along field edges or fences.
- Fit the guard discs (5) in the outer hubs on the hoeing tools.
- Insert R-clips (2) in hub/shaft borings to secure them.
3. Devices and Operating Elements

Depth bar

There are two depth bar versions available:

- Standard depth bar (adjustable bar),
- Wheel depth bar (support wheels).

The depth bar is fitted on the coupling unit. The support wheels are to ensure an easier transport of the machine.

Fitting the depth bar

- To fit the standard depth bar, insert the bar unit into the rectangular tube designed for coupling rear attachments. Secure with linch pin.
- To fit the wheel depth bar, first fit the wheel axle (1) onto square bolt.

The machine’s forward movement is slowed down by the depth bar.

The proper cultivating depth is controlled by pushing the depth bar (5) down into the soil. The deeper the depth bar setting, the slower is the machine’s forward movement and the blades will cultivate the soil at a greater depth.

Depth setting:

- deep for heavy, hard soil
- high for light, loose soil

To work on sandy soils turn the depth bar upside down for the angled end to point down and backwards.

Setting the depth bar:

- Loosen clamp screw (22), push the depth bar to the desired position and retighten clamp screw.
- For the coupling unit version, you can adjust the bar’s pivoting angle with the set screws (14) and lock nuts (13), depending on requirements.
3. Devices and Operating Elements

**Ridger**

**Required Accessories**
1 coupling bar ........ Item no. 0440 111
1 ridger .................. Item no. 0252 011
alternatively
1 set of
strake wheels ........ Item no. 0120 011

**Assembly:**
- Remove any add-on hoeing tools.
- Remove the outer hoeing tines (8 and 10) from each end of the hoeing shaft and swap sides with the tines pointing inwards (see figure below). This way the hoeing width is adjusted to 36cm without any special hoeing tools needed.
- Mount the guard discs.
- Remove the depth bar and install the coupling bar (13) instead.
- Insert the ridger stem (1) into the leg pocket. Insert the U-pin (2) as shown and secure it with a W-clip.
- To tilt the ridger adjust it with hex set screw (5). Then move the ridger (1) into the desired tilting position – the more the ridger tilts backwards the deeper is the working depth.

**Strake Wheels**

To improve tractive power and ridging quality in hoed soil use strake wheels (accessory no. 0120 011) (16) instead of hoeing tools.

Like the hoeing tools, strake wheels are attached with hex bolts which are inserted through the hub and hoeing shaft borings.

**Ridging**

For ridging operation start the power hoe as described in the paragraph on hoeing.
- Correct the ridging depth by adjusting the set screw (5) in the leg pocket or the slade (15) and the clamping screw (14).
- Set the ridging width by adjusting the mouldboards (7) and the clamping screw (6).
- The desired/required degree of floating is adjusted with the set screws (11) and the lock nuts.

---

1 Ridger
2 U-pin
3 W-clip
4 Clamping screw (ridger adjustment)
5 Set screw (ridging depth adjustment)
6 Clamping screw (ridging width adjustment)
7 Mouldboard
8 Hoeing tine
9 Hoeing tine attachment bolt
10 Hoeing tine
11 Set screw (adjustment of float)
12 Pin
13 Coupling bar
14 Clamping screw (slade adjustment)
15 Slade
4. Commissioning and Operation

Commissioning the Machine

Please note that durability and operational safety of the engine depend to a large extent on its breaking-in. Always allow a cold engine to warm up for some minutes and never run it at full throttle at the beginning. Make sure the air filter is serviced regularly and to use clean fuel.

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

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!

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 (B/11).
- 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” (fig. R).

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

- 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.
Starting the Engine

Do not start engine in closed rooms! Exhaust fumes contain carbon monoxide which acts toxic when inhaled. Keep feet away from mowing knife.

1. Open the fuel tap (B/13).

2. Move the choke lever (B/5) to position “CHOKE”
   - Do not operate the choke in hot temperatures or when the engine is hot.

3. Flick the engine shut-off switch (C/3) to operating position (“I”).

4. Move the speed control lever (C/9) to a central position (between idling speed and full throttle).

5. Pull the clutch lever (C/5) and lock it with the pawl (C/6) (start position).
   - The operator’s position during starting is at the handlebars to the right and behind the cutter bar or any other attachment.
   - Keep out of the danger zone (in particular children).

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

7. If the choke was operated, move it back to its original “open” position as soon as the engine has warmed up and is running smoothly.
4. Commissioning and Operation

Shutting off the Engine

1. Move the speed control lever to idling position and let the engine run idle for about half a minute.

2. Flick the engine shut-off switch to position "0".

3. Close the fuel tap

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

The speed control lever is also the safety circuit lever. If necessary, move this lever to position "STOP" to shut off the engine.

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

- Secure the machine against unauthorised use. Remove the spark plug connector.
4. Commissioning and Operation

Operation

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

Wear individual protective ear plugs and solid shoes.

- Couple the attachment.
- Set the correct ground speed for the attachment.
- Set drive-wheels to position “drive”.
- Engage wheel drive via lever (C/11).
- For pto-driven attachments: move pto lever (A/1) to “I”.
- Slightly pull on clutch lever (C/5), unlock pawl (C/6), release slowly and press the throttle. The pto-driven attachment starts moving and the multi-purpose machine travels forward.

Reverse

- Move speed control lever to IDLING.
- Pull clutch lever (C/5) to middle position and wait until the machine stops moving forward.
- Pull clutch lever all the way up and press the throttle at the same time.

If cleaning becomes necessary during operation, shut off the engine and remove spark plug connector for safety reasons.

End of operation:

- Disengage wheel-drive. To do this, pull hand lever for wheel drive (C/11) and lock pawl.
- Pull clutch lever (C/5) and lock pawl.
- For pto-driven attachments: Move the pto-lever (A/1) to position “0”.
- Turn off the engine.

Immediately re-install any guards on the attachment (e.g. knife guard on the cutterbar).

Danger zone

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

Apart from adhering to operating instructions for multi-purpose machines, 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 machine or on the engine.

Always wear safety gloves, when working near mowing knives.

Engine

Checking Oil Level

- Each time you take up operation and after every 5 operating hours.
- Check only with engine switched off and machine in horizontal position.
- Clean oil filler plug (B/11) and surrounding parts.
- Unscrew oil filler plug.
- Oil level must reach the filling opening.
- Refill oil, if oil level is lower than described (see “Specifications”). – Do not overfill!
- Screw oil filler plug back in and tighten.

Changing Engine Oil

The first oil change is after 5 operating hours. Subsequent oil changes are after 50 operating hours or once a year, depending on which period is completed first. At extreme strain and high temperatures, change oil after 25 operating hours.

- Open the drain plug (1) and the filling plug (2) and drain the oil into a suitable container or use a suction pump to remove the oil through the filler neck.
- Ensure the waste oil is disposed of properly!
- Before you retighten the drain plug (1) inspect the condition of the sealing ring (3). Replace it if necessary.
- Fill fresh engine oil into the oil filling opening. Refer to Specifications for oil quantity and quality. Use a funnel or a similar device to fill the oil reservoir.
- Replace the oil filler plug (2) and tighten it.
Only change oil while the engine is still warm, but not hot – danger of burns!
5. Maintenance

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:

- Remove the wing nut and the filter cover.
- Take the filter assembly apart.
- Wash the foamed pre-filter in non-foaming and warm lye. Do not use detergents containing Naphtha (petrol, etc.). Rinse the filter in running water from inside until the water is clear.
- Allow the foamed pre-filter to dry in the open air before replacing it.
- Slightly soak the foamed pre-filter in engine oil, then squeeze out the oil (wrap it in a rag and press it) so that any excessive oil will not contaminate the paper element.
- Tap the paper element against a smooth surface or blow compressed air against the inside. Never clean the filter with a brush because this would press the dirt into the fibres. Do not oil the filter element.
- Replace the filter element at 100-hour intervals or if it is extremely dirty.
- Reinstall the filter assembly as illustrated. Attach the filter cover with the wing nut.
Fuel System

Petrol is an extremely inflammable and sometimes even explosive fuel. Do not smoke within the machine’s operating range and keep away fire and sparks.

- Each time you maintain the machine, check the fuel hose, fuel tank, and carburetor for leakages. Remove any leakage and immediately replace a leaking or porous fuel hose.
- Replace the fuel hoses at 2-year intervals.
- Cleaning the sediment bowl
  - Close the fuel tap. Remove the sediment bowl together with the o-ring and wash it with a non-flammable or hardly inflammable solvent. Allow it to dry thoroughly, then replace it and tighten it until it is peg. Open the fuel tap and inspect for leakages before you start the engine.

Excessive petrol supply
- If fuel supply to the engine is too much, move the speed control lever to FULL THROTTLE and crank the engine using the recoil starter until it starts again. If it does not start, remove the spark plug and crank the engine with the spark plug removed. Clean the spark plug, replace it and start again.

Inspecting the fuel supply
Remove the drain plug and open the fuel tap. Fuel supply will be OK, if fuel runs through the tap. Retighten the drain plug.
5. Maintenance

Spark Plug

- After every 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.

Spark plug assembly:
Screw the spark plug into the cylinder head by hand. Then continue with a spark plug wrench. Turn wrench at 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.

Never use a spark plug of an incorrect heat range.

**Careful, do not touch the muffler! This is very hot after engine operation.**

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/8). Check each time before you take up operation!

Air-Cooling System

Clean internal cooling fins and surfaces at least every 100 operating hours (earlier in very dusty conditions).

→agria - Service←
5. Maintenance

Governor

For smooth engine performance keep governor linkages, springs and actuating devices clean from dust and dirt. Do not bend or twist parts. (Governor linkages on carburetor B/2).

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.

Speed Actuating Devices

Ensure all speed actuating devices are adjusted correctly to start, operate and switch off the engine at correct speed rates.

Carburetor Settings

Small differences in fuel, temperature, height or strain can require slight adjustment of carburetor. Only let engine run with air filter and air filter cap fitted.

Operation at high altitudes

To improve engine performance at high altitudes, fit a small-holed main jet to the machine and readjust the mix control screw. This measure is necessary, if the engine is permanently operated at altitudes of 1,830 m plus above sea level.

If the engine is operated at a lower altitude than carburetor calibration allows for and if too little fuel is mixed in, power may drop, the engine may overheat or even suffer serious damage.

Carburetor idle speed adjusting

- Start the engine and wait until it has reached operating temperature.
- Adjust the throttle stop screw while the engine is running and set to standard idle speed (1,250 rpm–1,600 rpm).
5. Maintenance

Machine

Worm Gear

- Check transmission oil level before you take up operation and after every 25 operating hours.
- Park machine horizontally on the ground (fig. V) and unscrew oil filler plug (1).
- Oil level must reach filling opening. Refill transmission oil, if necessary.
- Screw oil filler plug back in and tighten.

\[ \text{fig. V} \]

1 Oil filler plug
2 Gasket
3 Cap of transmission housing
4 Hexagon socket bolt

Exchange transmission oil once per year while the engine is still warm from operation.

- To drain old oil remove cap from transmission housing (3) (unscrew two hexagon socket bolts).
- Collect old oil in proper container and dispose of properly.
- Check gasket (2). Exchange gasket and clean sealing surfaces, if necessary. Re-fit cap.
- Position machine horizontally and unscrew oil filler plug (1).

- Fill fresh transmission oil until oil level reaches control opening (fig. V). (For proper oil quality, refer to chapter “Specifications”).
- Screw oil filler plug in again and tighten.

\[ \text{Drive-Wheels} \]

- Check tyre air pressure (0.8 bar) regularly. For smooth driving, make sure that there is the same air pressure in front and rear tyres respectively.
- For full tractive power, mount wheels with pointed parts of lugs showing in travel direction (wheels seen from above).
- Constantly check wheel-shaft for wound-on grass, remove by dismounting drive-wheels, if necessary.
- Lubricate with Bio-lubricating grease wheel-shaft ends (small shaft diameter) each time before you mount drive-wheels, once a year, and after cleaning with air-compressed water jets.
5. Maintenance

Safety circuit

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

- Upon release of lever (C/4) and with clutch engaged the engine must automatically come to a stop.
- Check electric lines and connections for good condition, exchange, if necessary.

Adjustments on Hand Levers for Clutch and Wheel drive

Check play or adjustments each time before you operate the machine. If necessary, re-adjust (especially after commissioning the machine during break-in period, and after exchanging clutch V-belt).

- Remove the retaining spring (2) with a screw-driver or similar tool.
- Remove cable end (3) and set pin (4) out of bracket in hand lever.
- Adjust the set pin (4) to a play of X. (Screw set pin in to reduce play, screw out to increase play).
- Place cable end and set pin back into bracket and check.
- Fit retaining spring (2).

1 Hand lever for wheel drive:
   X = 3–5 mm

2 Hand lever for clutch:
   X = 2.5–4 mm

However, the base setting is adjusted in neutral position. (see “Adjusting V-Belt Tension”).
Adjusting V-Belt Tension

Tension of V-belt requires re-adjustment, when the clutch lever play is less than 1.5 mm with forward speed engaged.

- Remove pulley and belt guard (D/8). For this purpose, unscrew lock nuts (D/10).
- Remove V-belt guide plate (D/7).
- Move clutch lever (C/5) to neutral (pawl (C/6) is locked).
- Screw V-belt pulley and rubber pulley “II” into wall until V-belt tension is normal for reverse speed.
- Prepare rubber pulley “II” for reverse speed by adjusting the Bowden cable in the clutch lever (fig. X) in such a way that the space between the outside diameter of pulley “I” and the outside diameter of rubber pulley “II” is 5 mm (fig. Y).
- Engage clutch lever for forward speed.
- Turn idler pulley “III” into arrow direction, until play in clutch lever (in forward position) is 2.5–4 mm.
- Replace V-belt guide (D/7) (see fig. D).
- Mount pulley and belt guard (D/8). For this purpose, the clutch lever must be in position “forward”.

⚠️ Only operate attachments with all guards in place.

Do not use conventional V-belts but only agria special belts.
5. Maintenance

General

- Watch out for fuel and oil leakage and repair, if necessary.
- Regularly check bolts and nuts and retighten, if necessary.
- Slightly grease all gliding and moving parts (e.g. speed control lever, hand lever bearing, etc.) with Bio-lubricating grease and Bio-slushing oil.

Cleaning

Machine

After cleaning the machine with a pressure washer, lubricate all lubrication points immediately, and let the machine run for a short time to press water out.

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

Engine

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

Storage

For longer periods of no operation prepare the multi-purpose machine for storage. Proceed as follows:

a) Clean thoroughly

Repair paint coat, lubricate lubrication points and operate the machine for a short time. Then spray all shining parts, in particular cutter bar, with Bio-slushing oil.

b) Engine preservation

Drain the fuel completely from the system:

- Petrol is an extremely inflammable and sometimes even explosive fuel. Do not smoke within the machine’s operating range and keep away fire and sparks.
- Close the fuel tap, remove the sediment bowl (2) and empty it.
- Open the tap and drain the fuel into a suitable container.
- Reinstall the bowl after inspecting the sealing ring (2) (replace it if necessary). Tighten the bowl until it is snug.
- Remove the carburetor drain plug (3) to drain the petrol or add fuel stabiliser (agria No. 799 09).
- Fill the fuel tank, then add stabilizer. Observe instructions. Operate the engine for approx. 1 minute.

- Change the engine oil
- Fill a tea-spoon of engine oil (approx. 0.03l) into the spark plug opening. Slowly crank the engine.
- Reinstall the spark plug and pull the starter rope until you feel resistance. Pull a bit further until the cut in the starter pulley is aligned with the hole on the recoil starter. This closes the intake and outlet valves to improve the engine’s protection from internal corrosion.
- Crank the engine slowly at 2–3 week intervals (spark plug connector is removed).
5. Maintenance

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 un-inflated.

d) Clutch

Always park the machine with clutch lever pulled (“0” – pawl locked in place). Otherwise, clutch problems may result due to corrosion.

e) Storing the machine

To avoid severe corrosion:
- to preserve the machine from atmospheric influences

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

f) Protect machine

with cloth or a similar cover.
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.

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<td></td>
<td>- Vent opening in fuel tank cap clogged</td>
<td>Exchange fuel tank cap</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Water or dirt in fuel system</td>
<td>Drain fuel and fill fresh fuel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter or exchange</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>* 41</td>
</tr>
<tr>
<td>Excessive temperature in engine</td>
<td>- Low engine oil level</td>
<td>Refill oil immediately</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>- Impaired cooling</td>
<td>Clean cooling fan grille, clean internal cooling fins</td>
<td>* 40</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>* 41</td>
</tr>
<tr>
<td>Misfirings in engine at high speeds</td>
<td>- Short firing intervals</td>
<td>Adjust spark plug</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>- Incorrect idle mixture</td>
<td>Adjust carburetor</td>
<td>* 41</td>
</tr>
<tr>
<td>Engine frequently stalls in idle</td>
<td>- Firing interval too long, defective spark plug</td>
<td>Adjust or replace spark plug</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>- Carburetor misadjusted</td>
<td>Re-adjust carburetor</td>
<td>* 41</td>
</tr>
<tr>
<td>Engine does not run smoothly</td>
<td>- Speed control linkages clogged or jammed</td>
<td>Clean speed control linkages</td>
<td>40</td>
</tr>
<tr>
<td>Engine does not stop when set to stop</td>
<td>- Speed control and engine stop are not adjusted properly</td>
<td>Adjust speed control</td>
<td>* 41</td>
</tr>
</tbody>
</table>
### 6. Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Remedy</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine output too low</td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>- Loose cylinder head or</td>
<td>Tighten cylinder head,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>damaged gasket</td>
<td>exchange gasket</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Poor compression</td>
<td>Have engine checked</td>
<td></td>
</tr>
<tr>
<td>Travelling drive or mowing</td>
<td>- Incorrect clutch lever</td>
<td>Adjust clutch lever</td>
<td>43–44</td>
</tr>
<tr>
<td>drive does not stop with</td>
<td>adjustment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>clutch pulled</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>- Attachment bolts loosened</td>
<td>Tighten attachment bolts</td>
<td>45</td>
</tr>
</tbody>
</table>

* = For this purpose contact your agria workshop.
**Electrical Wiring**

1. Engine
2. Magnet ignition system
3. Engine-off-switch (on speed control lever next to engine)
4. Switch in safety circuit lever
5. Switch in clutch lever

*bl = blue
*br = brown

**Lubrication Chart**

1. Engine oil (page 37)
2. Transmission oil (page 42)
3. Lever bearing (page 45)
## Varnishes, Wear Parts

**agria Order No.**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>799 09</td>
<td>Fuel stabilizer</td>
<td>pouch</td>
<td>5 g</td>
</tr>
</tbody>
</table>

### Varnishes

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>181 03</td>
<td>Spray varnish birch-green</td>
<td>spray tin</td>
<td>400ml</td>
</tr>
<tr>
<td>712 98</td>
<td>Spray varnish red, RAL 2002</td>
<td>spray tin</td>
<td>400ml</td>
</tr>
<tr>
<td>509 68</td>
<td>Spray varnish black</td>
<td>spray tin</td>
<td>400ml</td>
</tr>
</tbody>
</table>

### Emergency Tyre Repair:

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>713 13</td>
<td>Tyre sealing gel Terra-S</td>
<td>bottle</td>
<td>1l</td>
</tr>
</tbody>
</table>

### Wear Parts

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>761 99</td>
<td>Air filter element set</td>
</tr>
<tr>
<td>759 99</td>
<td>Spark plug NGK BPR6 ES</td>
</tr>
<tr>
<td>481 75</td>
<td>V-belt for clutch</td>
</tr>
<tr>
<td>481 74</td>
<td>V-belt for reverse drive</td>
</tr>
<tr>
<td>305 65</td>
<td>Gasket for housing cap (oil change)</td>
</tr>
</tbody>
</table>

⚠️ **Note:** Only use original agria V-belts!

### Spare Parts

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>997 086</td>
<td>Multi-purpose machine 400 and attachments</td>
</tr>
<tr>
<td>Activity</td>
<td>A</td>
</tr>
<tr>
<td>----------</td>
<td>---</td>
</tr>
<tr>
<td>Check safety circuit function</td>
<td>K</td>
</tr>
<tr>
<td>Check free play of hand levers</td>
<td>K</td>
</tr>
<tr>
<td>Check air filter</td>
<td>K</td>
</tr>
<tr>
<td>Clean cooling-screen</td>
<td>K</td>
</tr>
<tr>
<td>Check engine oil level, refill, if necessary</td>
<td>K</td>
</tr>
<tr>
<td>Clean surrounding parts of exhaust</td>
<td>K</td>
</tr>
<tr>
<td>First engine oil change</td>
<td>W</td>
</tr>
<tr>
<td>subsequent oil changes</td>
<td>W</td>
</tr>
<tr>
<td>Lubricate differential hub</td>
<td>K</td>
</tr>
<tr>
<td>Cleaning</td>
<td>K</td>
</tr>
<tr>
<td>Check bolts and nuts</td>
<td>K</td>
</tr>
<tr>
<td>Check transmission oil level</td>
<td>K</td>
</tr>
<tr>
<td>Clean air filter insert</td>
<td>W</td>
</tr>
<tr>
<td>Clean fuel strainer</td>
<td>K</td>
</tr>
<tr>
<td>Replace air filter insert, earlier, if required</td>
<td>W</td>
</tr>
<tr>
<td>Clean spark plug, adjust gap</td>
<td>W</td>
</tr>
<tr>
<td>Replace spark plug</td>
<td>K</td>
</tr>
<tr>
<td>Clean guide plates, cooling fins – earlier, if required</td>
<td>W</td>
</tr>
<tr>
<td>Grease wheel-shaft</td>
<td>K</td>
</tr>
<tr>
<td>Change transmission oil</td>
<td>W</td>
</tr>
<tr>
<td>Replace fuel hoses</td>
<td>W*</td>
</tr>
</tbody>
</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  
* = after 2 years
Designation of Parts

Figure C
1. Knob screw for steering handle side adjustment
2. Knob screw for steering handle height adjustment
3. Engine shut-off switch
4. Engine safety circuit lever
5. Clutch lever and forward/reverse selecting lever
6. Pawl on clutch lever
7. Pto engagement lever
8. Tool box
9. Speed control lever
10. Pawl for wheel drive engagement lever
11. Wheel drive engagement lever

Figure D
1. Idler pulley
2. Drive V-belt for forward speed (clutch)
3. Vibration damper
4. Threaded pin for belt guard
5. Borings for threaded pins
6. V-belt pulley (on crank shaft)
7. Belt guide plate
8. Belt guard
9. Spring washer
10. Lock nut
11. Reverse rubber pulley
12. Drive V-belt for reverse speed
13. V-belt pulley (on drive shaft)
Designation of Parts
Declaration Conformity

EG-Konformitätserklärung
EC Declaration of Conformity

Wir erklären, dass das Produkt Kombigerät ebenfalls mit allen einschlägigen Bestimmungen der EG-Maschinenrichtlinie 2006/42/EG in Übereinstimmung ist:

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

declarons que le produit est conforme à toutes les exigences respectives selon la directive relative aux machines 2006/42/CE.

Nous déclarons que le produit Machine universelle également conforme à toutes les exigences respectives selon les directives CE suivantes:

0400 331, -341, -351

We declare that the product Multi-purpose machine conforms to all relevant specifications of the Directive on Machinery 2006/42/EC. It is also conform to all relevant specifications of following EC directives: 2004/108/EC, 2000/14/EC

voldoet aan de desbetreffende bepalingen van de EG-machinerichtlijn 2006/42/EG. De machine voldoet ook aan de desbetreffende bepalingen van het volgende EG-richtlijn: 2004/108/EG, 2000/14/EG

Folgende harmonisierte Normen (oder Teile davon) oder techn. Spezifikationen wurden angewendet:

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


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

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

Möckmühl, den 15.01.2010

Siegfried Arndt
Geschäftsführer

Rudolf Tigges
Leiter Entwicklung & Konstruktion

Directed
Managing Director

Bedrijfsleider

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

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