Operating Instructions for agria®-Hydrostatic Tool Carrier Type 5900 Bison

Lombardini Diesel Engine

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

Please complete:

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

For name plate, refer to page 3/fig. A/4.

For engine type and number, refer to Lombardini engine operating instructions.

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 for the Tool Carrier and for the engine
- Tool carrier
- Tool kit

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= contact Your agria-workshop

➡️ see separate engine operating instructions!

Symbols

- ⚠️ Warning – danger
- 🔴 Important information
- 🍃 Fuel
- 🔧 Clutch
- 🔥 Forward
- 🔴 Reverse
- ⚡ Fast
- 🌟 Slow
- 🔯 Hydraulic system
- 🌟 PTO
- ⚡️ Brake
- 🔐 Parking brake
- 🔐 Closed (locked)
- 🔐 Open (unlocked)
- 🔐 Clockwise

2 Hydrostatic Tool Carrier Bison
Designation of Parts

Fig. A

Fig. B
**Designation of Parts**

**Fig. A:**

1. Transmission / hydraulic oil dipstick and filling opening
2. Ball head for hood carrier front
3. Idle speed shifting mechanism (bypass)
4. Nameplate (vehicle identification-no.)
5. Ball head for hood carrier rear
6. Transmission venting plug
7. Loading belt
8. Steering handle locking bolt rollers
9. Steering handle, central screw
10. Lower steering handle
11. Steering bar
12. Eye bolt with cap nut, top
13. PTO-shaft
14. Eye bolt with cap nut, bottom
15. Transmission oil drain screw
16. Brake drum
17. Wheel hub
18. Oil filter cartridge
19. Engine

**Fig. B:**

1. Ball handle for lateral steering bar adjustment
2. Eccentric lever for central brake
3. Safety circuit lever
4. Engine clutch engagement lever
5. Pawl for engine clutch lever
6. Connection mechanism for PTO-shaft
7. Operating mechanism for steering handle lock
8. Speed adjusting lever
9. Lever for stepless adjustment of driving speed and forward-reverse driving
10. Operating hour counter/speed counter (optional)
11. Twist grip for stepless adjustment of driving speed and forward-reverse driving
Hydrostatic Tool Carrier Bison

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Lubricants and Anti-Corrosive Agents

Use the specified lubricants for engine and transmission (see “Specifications”).
We recommend using bio-lubricating oil or bio-lubricating grease for “open” lubricating points or nipples (as specified in the operating instructions).
We recommend using bio anti-corrosive oil for preservation of machines and implements (do not apply on painted external covers). Oil can be brushed or sprayed on.
Anti-corrosive agents are kind to the environment and degrade fast.
Using ecologically safe bio-lubricants and bio-anti-corrosives, you contribute to environmental protection and to the wellbeing of humans, animals and plants.

Maintenance and Repair

The trained mechanics of your agria workshop carry out expert maintenance and repair.
You should only carry out major maintenance work and repairs on your own, if you have the proper tools and knowledge of machines and internal combustion engines.
Do not hammer against the flywheel with a hard object or metal tools as it might crack and shatter in operation causing injuries and damage. Only use suitable tools for pulling the flywheel.
**Diesel Engine**

This Diesel engine runs on conventional Diesel fuel of a min. cetane rating of 45.

Do not use Diesel fuel oil substitutes, they may be harmful to the fuel system. Fuel should be free of water or dust.

**Winter operation:**

To ensure reliable winter operation use “winter diesel fuel”, to be purchased at filling stations.

**At outside temperatures of below -15°C**, take the following additional precautions:

- add commercial flow conditioners
- or
- add paraffine oil to depress diesel pour-point:

<table>
<thead>
<tr>
<th>Paraffine oil:</th>
<th>winter</th>
<th>summer</th>
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<tbody>
<tr>
<td>diesel fuel</td>
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<tr>
<td>pour-point</td>
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<td>50%</td>
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</tr>
<tr>
<td>10%</td>
<td>app. -20°C</td>
<td>app. -9°C</td>
</tr>
</tbody>
</table>

**As a last resort**, you can add up to 30% of regular petrol to avoid paraffine deposits. However, this has negative effects on consumption rate and performance.

**see also**

Lombardini engine operating instructions
1. Safety Instructions

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

**Warning**

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

**Due Use**

The tool carrier and the mounted implements authorized by the manufacturer have been designed for all common applications and tasks in farming and forestry, as e.g. grassland mowing, this includes winter service and ground clearing (due use).

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

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

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

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**General Instructions on Safety and Accident Prevention**

**Basic Rule:**

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

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

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

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

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

Only work in good light and visibility.

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

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

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

Careful with rotating tools – keep at a safe distance!
Beware of coasting tools. Before you start any maintenance or repair on them, wait until tools have come to a complete stop.

Foreign powered parts shear and crush! Riding on the attachment during operation is not permitted.

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

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

Working Area and Danger Zone

The user is liable to third parties working within the tool carrier’s working range.

Staying in the danger zone is not permitted.

Check the immediate surroundings of the tool carrier 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 situation.

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

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

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 tool carrier and the implement.

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

Operation

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

Never adjust the operating handles during work – danger!
For all works with the tool carrier, in particular for turning, the machine operator must keep the distance to the machine given by the steering handles.

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

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

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

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

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

If possible, always work across the slope.

**End of Operation**

Never leave the tool carrier unattended with the engine running.

Before you leave the tool carrier, shut off the engine. Then close fuel taps.

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

---

**Implements**

Only mount implements with the engine and PTO shut off.

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

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

Secure tool carrier and implements against rolling off (parking brake, wheel chocks).

Beware of injuries while coupling implements. Work with particular care.

Hitch implements as specified and only couple at specified points.

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

**Mowing Implement**

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

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

Do not transport the dismounted cutter bar without knife guards.
1. Safety Instructions

When mounting and dismounting the cutter bar, make sure all blades are protected by the knife guards.

To exchange the knife and to mount/dismount the knife driver, make sure that you turn screws away from cutting blades.

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

**Weights**
Fit weights properly and at specified points.

**Maintenance**

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

Before you work on the engine, always remove spark plug connector.

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

Replace damaged cutting tools.

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. hitch)!

Keep tool carrier and implement clean to avoid risk of fire.

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

Ensure that you re-install all safety and protective devices and adjust them properly after maintenance and cleaning.

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

**Storage**

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

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

**Engine, Fuel, and Oil**

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

Be careful when handling fuel. Great danger of fire! Never refill fuel close to open fire, inflammable sparks or hot engine parts. Do not refill fuel in closed rooms. Do not smoke when refilling!

Refill only with the engine shut off and cooled down.
1. Safety Instructions

Do not spill any fuel, use a proper filling device (e.g. funnel).
In case of fuel-spillage, pull the tool carrier away from the spillage before you start the engine.
Make sure fuel is of specified quality.
Store fuel in approved cans only.
Liquids leaking under high pressure, e.g. fuel, can penetrate the skin and cause severe injuries. Immediately see a doctor.
Store anti-corrosive agents and stabilizing liquids out of reach of children. If sickness and vomiting occur, see a doctor. If fuel has contacted eyes, rinse them thoroughly, avoid inhaling of vapours.
Read and observe enclosed instructions.
Before you dispose of opened and seemingly empty pressurised tins (e.g. of assist-starting liquids) make sure they are completely empty. Empty them in ventilated places safe from spark formation or flames. If necessary, dispose of tins in hazardous waste deposits.
Be careful when draining hot oil, danger of burns.
Make sure oil used is of specified quality. Storage is in approved cans only.
Dispose of oil, greases, and filters separately and properly.

Hydraulic System

The hydraulic system is subjected to high pressure.
When connecting hydraulic motors, ensure the specified connection of the hydraulic hoses.
Hydraulic oil emerging under high pressure may penetrate the skin and cause serious injuries.
In case of injuries, immediately consult a physician – risk of infections.
Prior to works on the hydraulic system, render the latter pressureless and shut down engine (specialized workshop).
When searching leakages, use suitable aids considering the risk of injuries (specialized workshop).
Regularly check hydraulic hose lines for damage and ageing and replace them, if necessary.
Only use original agria hydraulic hoses.

Tyres and Tyre Air Pressure

When working on wheels, make sure tool carrier is parked properly and secured against rolling off.
Any repairs are to be carried out by trained mechanics only and with the appropriate tools.
Regularly check tyre air pressure. Excessive pressure may cause bursts.
1. Safety Instructions

Use appropriate tyre air pressure for operation with implements.

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

**Electrical System and Battery**

When working on the electrical system, make sure the battery is disconnected (negative pole) (for tool carriers equipped with battery).

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

Be careful with battery gases – explosive!

Avoid spark discharge and open flames near batteries.

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

Be careful when handling battery acid!

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

Always cover positive pole with specified cover or terminal cap.

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

**Explanation of Warning Signs**

Before any cleaning, maintenance, and repair work shut off the engine and pull ignition key.

Do not work without protective covers mounted. Before starting the engine, bring covers in proper position.

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

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

With engine running, keep at a safe distance.

**Signs**

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

Wear protective gloves.
### Track Widths Table [mm]

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* = intermediate flange Vario

1) = + track-width adjuster 90 mm

2) = traction cage wheels 10"

3) = traction cage wheels 12"

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**Dimensions:** $a_1$, $e_1$ = axle displaced forwards

<p>| Dimensions: $a_1$, $e_1$ = axle displaced forwards |
|------------------------------|----------------|</p>
<table>
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<th>$b$</th>
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**Version with continuous portal axle and diesel engine always + 40 mm**

2) = traction cage wheels 10"

3) = traction cage wheels 12"

---

**Machine**

**agria**

---

**2. Specifications**

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**Hydrostatic Tool Carrier Bison**
2. Specifications

**Clutch:** Single disc dry clutch

**Transmission:** Hydrostat

Driving speeds
Forward: 0–7.0 km/h
Reverse: 0–3.6 km/h

**PTO:** 805 rpm gear independent at 3600 engine rpm direction of rotation: clockwise, looking on PTO, constant in forward and reverse

**Steering:** Fully hydraulic steering handle

Steering handle fixable with disconnection of the hydraulic system for manual steering

**Steering handle:** height adjustable, side adjustable without tools

**Oil for transmission and hydrostat:**
- Multi-purpose oil: SAE 10W-40 API-SE/SF (or higher)
- Bio hydraulic oil: Synthetic ester basis HEES Viscosity as per ISO VG 46 Purity class min. 16/13-ISO 4406 e.g.

- ARAL: Vitam EHF 46
- BP: Biohyd SE 46
- ESSO: HE 46
- FUCHS: Plantohyd S 46
- PANOLIN: HLP Synth 46

**Weights:**

Empty weight: without drive-wheels 23x8.5-12
Lombardini Electric starter 224 kg 253 kg

**Tyres:** 23x8.5-12 wide track field tyre (series equipment)

optionally:
0190 112 5.00-10 field tyre
3490 411 5.00-12 field tyre
3490 511 20x8.00-10 grass tyre
3490 611 21x11.00-8 terra tyre for this Terra-Grip design, track-width adjusters are required:
Article 5519 031 5990 711 23x10.5-12 wide track field tyre

Tyre air pressure at:
5.00-10 1.5 bar
5.00-12 1.5 bar
21x11.00-8 0.8 bar
20x8.00-10 0.8 bar
23x8.5-12 1.3 bar
23x10.5-12 1.3 bar

5917 011 traction cage wheels 10"
5917 021 traction cage wheels 12"

Drive-wheel attachment and application see page 23 - 24

**Specifications for the engine = see separate Lombardini engine operating instructions!**
2. Specifications

**Noise level:**
- In accordance with EN 12733 appendix B:
  Noise level at operator’s ear
  - Safety Mulcher .......... $L_P = 85.7 \text{ dB}(A)$

- In accordance with 2000/14/EC, appendix III, part B, chapter 32 lawn mower:
  Acoustic power level: ........................
  - Safety Mulcher ........ $L_W = 105.7 \text{ dB}(A)$

**Vibration acceleration value:**
In accordance with 2002/44/EG and EN 12733 on handlebar grip with: ............................
- Safety Mulcher ........... $a_{hw} = 2.08 \text{ m/s}^2$

**Operability on Slopes:**
Engine is suited for use on slopes (oil level at “max” = upper mark)
Continuous operation possible up to 25° inclination
Temporary operation briefly up to 35° inclination

---

Hydrostatic Tool Carrier Bison
3. Devices and Operating Elements

The tool carrier agria type 5900 Bison is a base power machine and is always operated with an implement mounted. Therefore, the machine is suited for all common applications in farming and forestry, as well as for winter service.

Available implements:
- Front implements for example
  - mower drive, sweeper, snow plough, stone burrier, power harrow, mounted broadcaster

For a choice of further attachments refer to our price-list.

Engine
- The four-stroke diesel engine runs on commercial diesel fuel (refer to fuel recommendations p7). See to using proper fuel in winter.

During the first 50 operating hours (break-in period) do not use engine to maximum power.

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

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

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

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

Air Filter
The air filter purifies the air intake. A clogged filter reduces engine output.
3. Devices and Operating Elements

Speed Control Lever

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

Safety circuit

1. **Stop position**: When releasing the safety shifting lever (B/4) the engine is turned off.
   - Beware – engine keeps running due to centrifugal mass.

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

3. **Operating position**: To operate the machine press safety circuit lever (B/4).

   **Do not fasten safety circuit lever.**

   Release the safety circuit lever in an emergency, the lever will automatically go to STOP position!

Solenoid valve for fuel supply

(at the left side of the engine in front of the air cleaner)

the engine stops by the electrical command of the safety circuit or starter lock in position 0, if the lever at the solenoid valve is at position A. The lever position A is leaded and has to be leaded again if there is any repair.

**The lever position B at the solenoid valve may not be used for operation, because no electrical disconnection takes place and also the safety circuit is out of service!**
3. Devices and Operating Elements

Clutch

The single disc dry clutch is operated via the clutch lever (B/5).

With clutch lever pulled up to position “0”, the clutch is decoupled, i.e. the engine stops driving the machine.

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

Do not park the machine with the clutch pulled and the engine running. This may damage the clutch release bearing.

Ensure the lever is pulled and locked (pawl is locked in place) when you park the machine with the engine stopped, otherwise clutch problems might arise due to corrosion.

PTO-Shaft Connection

The speed-independent PTO (A/22) is connected with a connection mechanism (B/7). With the connection mechanism drawn backwards, the PTO-drive is connected, when slid forwards, the PTO-drive is disconnected.
3. Devices and Operating Elements

Transmission

The agria tool carrier is equipped with a hydrostatic drive.

Setting the Driving Speed and Direction

Lever shift model

- The driving speed forward or reverse is steplessly set or changed with the forefinger or the thumb at the driving lever (B/10).
- The zero-position is set, when the marking at the driving lever is congruent with the “0” at the pictogram and is in contact with the spring detent.
- When turning the driving lever forwards, the driving speed is steplessly increased forwards and accordingly backwards, if the driving lever is turned backwards and down.

Twist-grip shift model

- The driving speed forward or reverse is steplessly set or changed with the twist grip (B/12).
- The zero-position is set, when the marking at the twist grip is congruent with the “0” at the pictogram.
- When swiveling the twist grip clockwise, the driving speed is steplessly increased forwards.
- When swiveling the twist grip anti clockwise, the driving speed is steplessly increased backwards.
- The locking lever can be used to prevent the twist-grip from turning accidentally.

ロックing lever = locked

ロックing lever = unlocked
**Coasting operation**

The machine can be coasted without engine, if the idle shift is opened (position “0”).

The idle shift (A/3) is arranged at the right front of the tool carrier underneath the hood and can be operated by turning the shifting knob (or shifting lever).

The hydraulic drive is activated again, when the idle shift is closed (position “I”).

Prior to starting the works, check shifting position!

- **Coasting operation or towing up to max. 4 km/h.**

**Trailing is not permitted!**

**Hydraulic Steering**

With the hydraulic steering, the inner wheel at the curve becomes slower up to the standstill, the outer wheel at the curve keeps its velocity.

**Steering**

- By the steering movement at the steering handle, the hydraulic steering is activated with running engine.

- Steering only during driving, not upon a standstill.

- The stronger the steering movement, the quicker the hydraulic steering

**Locking the Hydraulic Steering**

By pulling and turning the shifting mechanism (B/8), the hydraulic steering is locked and steering is realized by muscular strength.

When the lock is opened, the hydraulic steering is connected again.

**Use:** Operation at the slope!
– similar to a differential lock!
or for lifting out an implement.
Central Brake

To slow down or park the machine on hilly ground, use the combined central parking brake.

- **Central Brake**
  Swivel the eccentric lever (B/2) backwards and up – both drive-wheels are braked.
  Release the eccentric lever and the lever swivels back to the original position – brake is released.

- **Parking brake**
  Swivel the eccentric lever (B/2) backwards and up beyond the dead centre. The eccentric lever automatically comes to a stop – both drive-wheels are blocked.
  To release parking brake, swivel eccentric lever back to original position – brake is released.

- Do not drive and brake at the same time.
- Prior to starting driving, absolutely disengage brake as otherwise risk of damage due to overpressure (failure of wheel motors).

Steering Handle

- Do never adjust operating handles during working – risk of accidents!

**Steering Handle – Height Adjustment**

- Unfix ball handle levers A on either side until the detents B are free.
- Bring left and right steering handle to the desired height and introduce into the respective detent.
- Tighten ball handle levers A again.

**Steering Handle – Lateral Adjustment**

From its normal position (centre position), the steering handle can be turned by about 30° to the left or right.

- Pull ball handle (B/1) upwards and keep it in position; then turn steering handle to the left or right into the desired position.
- Release ball handle and slightly move steering handle to the left and right until the fixing bolt is engaged.
3. Devices and Operating Elements

**Loading Belt**
For loading the machine and for suspending the retaining rope for works on slopes, the loading belt (A/7) is provided. To that end, remove hood.
Check loading belt for damage; replace it, if necessary.

**Drive-Wheels**
For full tractive power, mount wheels with pointed parts of lugs showing in driving direction (wheels seen from above). Fit the countersunk side of spring-lock washer into countersink-type holes of disk wheel (see fig. “Wheel Attachment Bolts”).
The wheels can also be mounted either on their inner or outer sides for variable track widths (narrow track / wide track – refer to track widths table, p14).

<table>
<thead>
<tr>
<th>Tyre</th>
<th>Tread Profile</th>
<th>Use</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00-10</td>
<td>field tyre</td>
<td>general maintenance</td>
<td>0190 112</td>
</tr>
<tr>
<td>5.00-12</td>
<td>field tyre</td>
<td>general maintenance</td>
<td>3490 411</td>
</tr>
<tr>
<td>20x8.00-10</td>
<td>grass tyre</td>
<td>grass maintenance</td>
<td>3490 511</td>
</tr>
<tr>
<td>21x11.00-8</td>
<td>terra tyre</td>
<td>general maintenance</td>
<td>3490 611</td>
</tr>
<tr>
<td>23x8.5-12</td>
<td>wide-track field tyre</td>
<td>general maintenance</td>
<td>5990 611</td>
</tr>
<tr>
<td>23x10.5-12</td>
<td>wide-track field tyre</td>
<td>general maintenance</td>
<td>5990 711</td>
</tr>
</tbody>
</table>
3. Devices and Operating Elements

Wheel Attachment Bolts

Version A wheel bolt with spring-lock washer.

Version B locking bolt with spring-lock washer and wheel nut.

Screw short thread end of locking bolt tightly into hub, if possible, glue with LOCTITE 270 (or similar glue).

Fit countersunk side of spring-lock washer onto disk wheel.

On a new machine or after wheel change, re-tighten wheel bolts and nuts after the first 2 operating hours with 100 Nm. Re-tighten bolts and nuts in each maintenance.

Snow Chains

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

Wheel-Track Adjustment System

- Item 5519 031 used to fit terra tyre drive wheels 21 x 11.00-8 TG.

Drive-Wheels for Slopes

It is recommended to use twin wheels or strake wheels for mowing areas on extremely steep slopes.
3. Devices and Operating Elements

Hood

Remove Hood

- Lift rear end of hood.
- Lift front end of hood and completely remove it.

Placing Hood

- Place front and rear of hood with the rubber cups onto the ball heads.
- By slightly applying pressure to the rear and front of the engine cowling, have the ball cups engage in the ball heads.

Portal Axle Adjustment

To improve the weight distribution with heavy implements, the axle can be displaced forwards.

- For that purpose, install the complete wheel motors (M/1) to the front flange bolting template (M/2).
- Previously, clean flange bolting template.
- Do not unfix hydraulic lines and bowden cables!
- Tighten attachment bolts (M/3) with 45 Nm.
- Befestigungsschrauben (M/3) mit 45 Nm festziehen
3. Devices and Operating Elements

Continuous portal axle adjustment (option for article 5939 011)

1. Adjustment to front or rear
   - Pull parking brake (P)

2. Release ball handle lever

3. Pull machine back or move machine forward on steering spar
   - Min. clearance to attachment for drive wheels 20 mm!

4. Pull ball handle lever

5. Ball handle lever must not point downward
   - Press ball handle lever axially inward - until it unlocks - and turn upward
3. Devices and Operating Elements

Mounting and Dis-mouting Implements

⚠️ Only mount and dismount implements with engine off.

Mounting Implements:
- Ensure that coupling surfaces on tool carrier and implement are clean.

1. For PTO driven implements, set shift lever (4) on implement to position “0”.

2. Slide pegs (2) of base machine into hooks (3) of implement.

3. Fold both eye bolts (1) over coupling flange.

Attention:
- Make sure flanges (5) are properly centred and flat fitted.
- Tighten cap nuts evenly.

4. For PTO-driven implements: Set shift lever (4) at the implement to “I” – shifting takes place at the base machine.

For dismounting, proceed in reverse order.
3. Devices and Operating Elements

Battery

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

Note manufacturer’s instructions!

Starter Switch

Control lamps

Fuse (rear at the control box, flat plug fuse 15 A)

see engine operating instructions

The engine can only be started with the battery connected and ready for operation, even using the reversing start equipment!
4. Commissioning and Operation

Commissioning

Please note that durability and operational safety of the engine depend to a large extent on its breaking-in. Always allow a cold engine to warm up for some minutes and never run it at full throttle at the beginning.

Please note: for the first 50 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 Diesel, ensure timely provision of “winter Diesel fuel” (see Lombardini operating instructions).

Only use 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.

- 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 fill the fuel tank beyond the red mark on the filler strainer.

- Check transmission oil level (see page 37).

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

Before you operate the engine the first time, fill in engine oil in the engine and the air filter!
4. Commissioning and Operation

Before starting the Engine

1. Sufficient fuel is filled into the tank?

2. Air filter cleanful?

3. Check the engine oil level.

4. Check transmission oil level.

5. Check all bolts and nuts for tight fit.

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

Careful when starting the engine in closed rooms!

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

Do not touch the hot engine - danger of burns!
4. Commissioning and Operation

Starting Diesel Engine

see also Lombardini engine operating instructions

1. Set speed control lever (B/9) to half throttle (50%).

2. Set safety circuit lever (B/4) and clutch lever (B/5) to start position.

3. Insert key into ignition-start-switch and turn right to position “I” - even when started using the reverse starter.

4. Turn ignition key further to the right to position “START”.

The engine can only be started with the battery connected and ready for operation, even using the reversing start equipment!

As soon as the engine starts, let go ignition key – it automatically moves back into position “I”.

If the engine does not start and re-start is necessary, turn key back to position “0” to repeat start (re-start lock).

- Let engine warm up for some time.
- If the engine does not start, repeat the starting procedure in the same order.
4. Commissioning and Operation

Shutting off Diesel Engine

See also Lombardini engine operating instructions

1. Before you shut off the engine let it run at increased idling speed for 1 minutes to cool down and to avoid carbon to deposit on the injection valve. This ensures continued and reliable operation.

2. Turn key back to position “0”.

### Operating the Machine

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

1. Start the engine as specified in chapter “Starting the Engine”.
2. Wear individual protective ear plugs and solid shoes.
3. For operation with PTO-powered attachments:
   Switch on PTO using the PTO shifting mechanism (B/7).
4. Pull slightly clutch lever (B/5), unlock pawl (B/6) and slowly let go while pressing the throttle.

   **Carefully engage the clutch, the exact 0-position of the twist grip or driving lever is not always reached – the implement will possibly start directly!**

5. Set driving speed with the driving lever (B/10) or the twist grip (B/12) according to the conditions and requirements.

### Changing the driving direction from forward to reverse:

Slowly move driving lever (B/10) or twist grip (B/12) to the rear bottom.

Proceed vice versa for direction change from reverse to forward.

**Never leave tool carrier unattended with the engine running.**

### Danger Zone

**Keep out of the machine’s danger zone during starts and operation.**
4. Commissioning and Operation

**Note for Mowing**

After mowing or in case of grass clogging:

1. Set driving lever to idle-position. The mower comes to a stop but not the knives, thus freeing the cutter bar from grass.

2. Set PTO shifting mechanism to position “0”.

**Working on Slopes**

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

If possible, always work across the slope.

**Starting the Engine on Slopes**

If the engine comes to a halt while working and re-start becomes necessary, proceed as follows:

1. Engage central brake.

2. Move clutch lever and safety circuit lever to start position.

3. Re-start engine.

If cleaning becomes necessary during operation, the engine must be shut off and the ignition key removed for safety reasons.
5. Maintenance

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

Do all maintenance work only with the engine shut off!

When working on mowing knives, wear safety gloves!

Engine

Maintenance of the engine

see Lombardini operating instructions

Cleaning the Cooling System

After a long period of operation the cooling system may become clogged by dirt and plant trash. Uninterrupted operation with a clogged cooling system causes the engine to heat up and become damaged.

- Always check cooling-air screen and free from dirt and plant trash taken in.
- After every 100 operating hours or at least once a year before season starts remove fan case to clean cooling fins on cylinder and cylinder head as well as guiding plates and cooling-air screen, both serving for smooth air circulation.

Exhaust System

Constantly check exhaust system for plant trash and clean, if necessary. Otherwise danger of fire!

Check each time You take up operation.
5. Maintenance

Battery

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

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

Never leave battery in uncharged state.

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

Machine

Transmission

Transmission oil is also hydraulic oil

When changing to Bio hydraulic oil HEES, drain oil filling and twice rinse the system (– see after-sales service information).

1. Check oil level in transmission each time before you take the machine into operation and after every 8 operating hours (oil dip-stick and filling opening (1)). With the tool carrier parked in horizontal position, the oil level must be between the “max” and “min” marks.
   - Screw out oil dip-stick, clean with clean cloth and screw back in.
   - Take dip-stick out again and read oil level, refill transmission oil, if necessary. (Refilling volume between “min.” and “max.” = 1 l).

2. Transmission oil filter change after the first 50 operating hours and then always after 200 operating hours.
   Tilt machine forwards onto the connection flange. Screw out oil filter (5) and replace it – for new filter, wet the sealing ring with some oil. Dispose of oil filter as directed.

3. Transmission oil change with simultaneous oil filter change after the first 50 operating hours and after every 600 operating hours while the engine is still warm.
   - Keep oil filler plug (1) and drain plug (4) extremely clean as well as surrounding parts to prevent dirt from penetrating into the transmission.
   - Open drain plug, collect old oil in proper container and dispose of properly.
   - Clean drain plug; the drain plug has a magnetic core and therefore attracts metallic powder.
   - Check sealing rings and exchange, if necessary.
   - Screw in drain plug with o-ring and tighten.
   - Fill in fresh transmission oil, up to level mark “max.”.
   - For proper oil quantity and quality, refer to chapter “Specifications”.
   - Close filling opening with plug/dip-stick.
5. Maintenance

Steering Handle Locking Bolt
At certain intervals, lubricate at the grease nipple with Bio lubricating grease. At least once per year and after cleaning with a high-pressure cleaner.

Steering Handle Lock
Always after 200 operating hours and always after cleaning with a high-pressure cleaner, apply some Bio lubricating grease to either side of the rollers (A/8) for the steering lock.

Steering Handle Ultra-Bushes
• Check condition always after 200 operating hours.

Steering Handle Central Screw
• Always after 200 operating hours, retighten central screw (A/9) with 140 Nm and counter it again.

Loading Belt
Check loading belt for damage every year, replace it not later than 10 years.

Hydraulic Hoses
Check hydraulic hoses always after 200 operating hours or at least once per year for closeness.

Drive-Wheels

1. When commissioning the tool carrier and each time you change wheels, check and tighten wheel bolts and nuts after the first 2 operating hours with 100 Nm. Proceed likewise when doing maintenance work.

2. Check tyre air pressure regularly. For smooth driving, make sure that there is the same pressure in front and rear tyres respectively.

Wheel Hubs
• Always after 50 operating hours, retighten the hex nuts (A/26) on the wheel hubs to 240...300 Nm.

Brake
Always after 200 operating hours or at least once per year, check brake jaws and brake operating system for unhindered movement and efficiency.

Wheel Motors
Always after 200 operating hours, check for straight driving with the steering handle in neutral position.
5. Maintenance

Safety Circuit

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

- With clutch engaged and upon release of safety lever (B/4), the engine must automatically come to a stop.
- Check electric lines and connections and exchange, if necessary.

→ agria - Service ←

Engine Shut-off Switch

Check function of engine shut-off switch each time you do maintenance work.

- With shut-off switch in position “0” the engine must come to a stop.
- Check electric lines and connections and exchange.

→ agria - Service ←

Clutch Lever

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

Clutch:

\[ X = 3 - 5 \text{ mm (Clutch play)} \]

! = The Bowden cable must be placed in the hand lever support on bottom position

Adjustment:

1. Remove retaining spring (2) and use set pin (4) to press cable end (3) out of bracket in hand lever.
2. Adjust the set pin (4) to a play of \( X \). Screw set pin in to reduce play, screw out to increase play.
3. Use set pin to place cable end back into bracket and check, and fit retaining spring (2).
5. Maintenance

**Twist-grip shift**
Check for proper operation and adjustment when performing maintenance and adjust, if necessary

**Setting**
Set the twist-grip shift on the Bowden cable adjustment screw so there is no play, so that the marking point on the twist-grip matches the 0 position of the pump and the pictograph.

**Twist-grip locking lever**
Setting the clamp
Loosen threaded rod about 1 revolution with hex key
Set locking lever so that:

- = twist-grip can turn
- = twist-grip is clamped, cannot turn

**General Maintenance**

1. Every time you take up operation watch out for fuel and oil leakage, repair if necessary.
2. Regularly check bolts and nuts for tight fit, re-tighten, if necessary.
3. At least once a year and after cleaning: Slightly grease all gliding and moving parts (e.g. speed control lever, lever bearing, etc.) with bio-lubricating grease and bio-lubrication oil.

**Cleaning**
After each cleaning (spraying with water, especially with air-compressed water jets) lubricate all lubrication points, oil and let tool carrier 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.
Clean engine only with a cloth. Avoid spraying with air-compressed water jets, as water might leak into ignition and fuel system causing malfunctions.
5. Maintenance

Storage

For longer periods of no operation:

a) Clean thoroughly

Repair paint coat.

b) Spray all shining parts and the cutter bar with Bio-slushing oil.

c) Engine preservation

- Diesel Engine
  - Change engine oil.
  - For longer storage, close exhaust pipe and air filter opening with crape or similar tape.

d) Drive-wheels

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

e) Clutch

Always park two-wheel tractor with clutch lever pulled (pawl locked in place). Otherwise clutch problems may result due to corrosion.

f) Parking

Because of severe corrosion do not park the tractor

- in humid rooms
- in rooms where fertilizer is stored
- in stables or adjacent rooms.

g) Covering the machine

Protect the 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.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Remedy</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
<td>DieselEngine:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine not start</td>
<td>- Speed control lever set to “min”</td>
<td>Move speed control lever to “Max”</td>
<td>31 does</td>
</tr>
<tr>
<td></td>
<td>- Safety circuit not in start position</td>
<td>Move safety circuit to start position</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>- Fuel tank empty or poor fuel</td>
<td>Fill fresh fuel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Solenoid valve lever not correctly</td>
<td>Correct position of the lever</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>- Fuel line or fuel filter clogged</td>
<td>Clean fuel line or filter</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>- Injector nozzle or injection line clogged</td>
<td>Clean injector nozzle or injection line</td>
<td>* BM</td>
</tr>
<tr>
<td></td>
<td>- Wrong injection pressure</td>
<td>Check pressure</td>
<td>*</td>
</tr>
<tr>
<td>Misfireings in engine</td>
<td>- Clogged fuel line or poor fuel</td>
<td>Clean fuel line, fill fresh fuel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Vent opening in fuel tank cap clogged</td>
<td>Exchange fuel tank cap</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Water or dirt in fuel system</td>
<td>Drain fuel and fill fresh fuel</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Air filter clogged</td>
<td>Clean air filter</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Injector nozzle or injection line clogged</td>
<td>Clean injector nozzle or injection line</td>
<td>* BM</td>
</tr>
<tr>
<td>Excessive temperature in engine</td>
<td>- Lack of engine oil</td>
<td>Refill engine oil immediately</td>
<td>BM</td>
</tr>
<tr>
<td></td>
<td>- Impaired cooling</td>
<td>Clean fan grid, clean internal cooling fins</td>
<td>34</td>
</tr>
<tr>
<td>Misfireings at high speeds</td>
<td>- Injector nozzle clogged</td>
<td>Clean injector nozzle</td>
<td>* BM</td>
</tr>
<tr>
<td></td>
<td>- Wrong injection pressure</td>
<td>Re-adjust injection pressure</td>
<td></td>
</tr>
<tr>
<td>Engine frequently stalls in idle</td>
<td>- Air filter clogged</td>
<td>Clean air-filter</td>
<td>BM</td>
</tr>
<tr>
<td>Engine does not stop when set to “STOP”</td>
<td>- Starter lock is defective</td>
<td>Check starter lock</td>
<td>* BM</td>
</tr>
<tr>
<td></td>
<td>- Solenoid valve lever not correctly</td>
<td>Correct position of the lever</td>
<td>18</td>
</tr>
<tr>
<td>Engine output too low</td>
<td>- Loose cylinder head or damaged gasket</td>
<td>Tighten cylinder head, exchange gasket</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>- Poor compression</td>
<td>Have engine checked</td>
<td>*</td>
</tr>
<tr>
<td>E-starter does not start</td>
<td>- Battery is empty</td>
<td>Charge or replace the battery</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>- Fuse is defective</td>
<td>Replace fuse</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>- Harness, E-starter damaged</td>
<td>Check harness and E-starter</td>
<td>*</td>
</tr>
</tbody>
</table>
# 6. Troubleshooting

**Machine in General:**

<table>
<thead>
<tr>
<th>Issue</th>
<th>Description</th>
<th>Solution</th>
<th>Page</th>
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</thead>
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<td>Clutch does not decouple</td>
<td>Clutch lever misadjusted</td>
<td>Adjust clutch free play</td>
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</tr>
<tr>
<td>Clutch slips</td>
<td>Clutch lever misadjusted</td>
<td>Adjust clutch free play</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td>Worn out clutch</td>
<td>Exchange clutch disc</td>
<td>*</td>
</tr>
<tr>
<td>No wheel drive</td>
<td>Clutch is not engaged</td>
<td>Engage clutch using the clutch lever</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>Idle shift is operated</td>
<td>Activate hydraulic drive</td>
<td>21</td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>Loosened attachment bolts</td>
<td>Tighten attachment bolts</td>
<td>38</td>
</tr>
</tbody>
</table>

* = For this purpose contact your agria workshop!

BM = see separate engie operating instructions
1 Alternator 7 Starting keyswitch
2 E-Starter 8 Battery charging warning light
3 Voltage regulator 9 Solenoid valve
4 Battery 10 Switch, clutch lever
5 Oil pressure switch 11 Switch, safety lever
6 Oil pressure warning light
# Inspection and Maintenance Chart

<table>
<thead>
<tr>
<th>Task</th>
<th>After operating hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Check safety circuit function</td>
<td>K</td>
</tr>
<tr>
<td>Check engine shut-off switch function</td>
<td>K</td>
</tr>
<tr>
<td>Check free play of 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 bolts and nuts</td>
<td>K</td>
</tr>
<tr>
<td>Clean surrounding parts of exhaust</td>
<td>K</td>
</tr>
<tr>
<td>Check engine oil level, refill, if necessary</td>
<td>1</td>
</tr>
<tr>
<td>Tighten wheel bolts and nuts</td>
<td>K</td>
</tr>
<tr>
<td>Check transmission/hydraulic oil level</td>
<td>5</td>
</tr>
<tr>
<td>Cleaning</td>
<td>K</td>
</tr>
<tr>
<td>First transmission oil filter change, subsequent filter changes</td>
<td>3</td>
</tr>
<tr>
<td>First transmission oil change, subsequent oil changes</td>
<td>4</td>
</tr>
<tr>
<td>Retighten hex nuts of wheel hubs</td>
<td>W</td>
</tr>
<tr>
<td>Clean guide plates, cooling fins – earlier, if required</td>
<td>F</td>
</tr>
<tr>
<td>Grease rollers for steering handle lock</td>
<td>6</td>
</tr>
<tr>
<td>Check hydraulic hoses</td>
<td>W</td>
</tr>
<tr>
<td>Check steering handle ultra-bushes</td>
<td>F</td>
</tr>
<tr>
<td>Retighten steering handle central screw</td>
<td>F</td>
</tr>
<tr>
<td>Check brake</td>
<td>F</td>
</tr>
<tr>
<td>Check wheel motors for straight driving</td>
<td>F</td>
</tr>
<tr>
<td>Lubricate all sliding parts</td>
<td>8</td>
</tr>
<tr>
<td>Grease steering handle locking bolt</td>
<td>7</td>
</tr>
<tr>
<td>Check loading belt</td>
<td>K</td>
</tr>
<tr>
<td>First engine oil change, subsequent oil changes</td>
<td>2</td>
</tr>
<tr>
<td>Clean engine oil filter first time, subsequent cleaning</td>
<td>BM</td>
</tr>
<tr>
<td>Clean air filter</td>
<td>BM</td>
</tr>
<tr>
<td>Clean injection jet and check</td>
<td>BM</td>
</tr>
<tr>
<td>Replace fuel filter</td>
<td>BM</td>
</tr>
<tr>
<td>Replace fuel hoses</td>
<td>BM</td>
</tr>
</tbody>
</table>

**BM** = see separate engine operating instructions  
**P** = Item in lubrication chart (page 45)  
**A** = Each time before you take up operation  
**B** = After each cleaning, especially with a high-pressure cleaner  
**J** = min. yearly  
**K** = Checks and maintenance to be executed by operator  
**W** = Maintenance to be executed by professional workshop  
**F** = Maintenance should be carried out by your agria workshop  
*** = after 2 years**
**Lubrication Chart**

- **B = yearly and after each cleaning with a high-pressure cleaner**
**Roller guard**

Option: Parts set 760 58

**Assembly:**
- A Clip roller guard support (1) to draw spindle of wheel motors
- B Push roller guard (2) over wheel motors

- Note notch for brake lever. Fasten with screws (4) and washers (3)

---

**Hydraulic hoses**

A = Hydraulic hose .................................................... 774 25 ............ 774 26
B = Hydraulic hose .................................................... 768 43 ............ 768 44
Conformity Declaration

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

<table>
<thead>
<tr>
<th>D</th>
<th>F</th>
<th>GB</th>
<th>NL</th>
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</thead>
<tbody>
<tr>
<td>Wir</td>
<td>Nous</td>
<td>We</td>
<td>Wij</td>
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</tbody>
</table>

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

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

Geräteträger Porte-Outils Tool Carrier Werkuitdrager

Bison 5900 153

für die Verwendung in der Land- oder Forstwirtschaft
pour être utilisée dans le domaine forestier, pour l'entretien des espaces verts et des sols
for all common applications and tasks in forestry, grass and park maintenance
bestemd voor gebruik in de bosbouw, gras- en weilandverzorging

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

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 toepast:

EN 12733

Möckmühl, 19.10.2006

Siegfried Arndt
Geschäftsführer
Managing Director
Bedrijfssleider

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

Hydrostatic Tool Carrier Bison
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- Ride-on Brushcutter
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- Sweeper
- Scarifier
- Multi-Purpose Machine

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

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