• Tout de suite après l’achat, transcrire dans les espaces prévus les données d’identification (3 - 5 - 6) qui sont indiquées sur l’étiquette d’identification de la machine (☛ 2.1 - IDENTIFICATION DE LA MACHINE).

• As soon as you have purchased the machine, write the machine identification data (3 - 5 - 6) found on the identification label in the spaces provided (☛ 2.1 - IDENTIFICATION OF THE MACHINE).

• Tragen Sie sofort nach dem Kauf die Kennzahlen (3 - 5 - 6) in die entsprechenden Felder auf dem Kennungsschild der Maschine ein (☛ 2.1 - KENNZIECHNUNG DER MASCHINE).

• Immediatamente dopo l’acquisto, trascrivere negli appositi spazi i dati di identificazione (3 - 5 - 6) riportati sull’etichetta di identificazione della macchina (☛ 2.1 - IDENTIFICAZIONE DELLA MACCHINA).

• Onmiddellijk na aankoop worden de identificatiegegevens (3 - 5 - 6) genoteerd in de ruimten op het identificatielabel van de machine (☛ 2.1 - IDENTIFICATIE VAN DE MACHINE).

Model: ........................

Year .......  S/N° ........................

© by GGP ITALY
Dear Customer,

Thank you for having chosen one of our products. We hope that you will get complete satisfaction from using your new machine and that it will fully meet all your expectations. This manual has been compiled in order that you may get to know your machine and to be able to use it safely and efficiently. Don’t forget that it forms an integral part of the machine, so keep it handy so that it can be consulted at any time, and pass it on to the purchaser if you resell the machine.

This new lawn tractor of yours has been designed and made in line with current regulations, and is safe and reliable if used for cutting grass in full accordance with the instructions given in this manual (proper usage). Using the machine in any other way or ignoring the instructions for safe usage, maintenance and repair is considered "incorrect usage" which will invalidate the guarantee, and the manufacturer will decline all responsibility, placing the blame with the user for damage or injury to himself or others in such cases.

Since the product is continually being improved, you may find slight differences between your machine and the descriptions contained in this manual. Certain modifications can be made to the machine without prior warning and without the obligation to update the manual, although the essential safety and function characteristics will remain unaltered. In case of any doubts, do not hesitate to contact your Retailer. And now enjoy your work!

AFTER-SALES SERVICE

This manual gives all the necessary instructions for using the machine and the basic maintenance that may be carried out by the user. For all information not contained here, contact the Local Retailer or a Licensed Service Centre. If you wish, your Retailer will be pleased to offer a maintenance programme personalised to your needs. This will help you keep your new purchase in peak performance, maintaining its value.
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1. SAFETY

1.1 HOW TO READ THE MANUAL

Some paragraphs in the manual containing information of particular importance for safety and operation are highlighted at various levels of emphasis, and signify the following:

**NOTE** or **IMPORTANT** These give details or further information on what has already been said, and aim to prevent damage to the machine.

**WARNING!** Non-observance will result in the risk of injury to oneself or others.

**DANGER!** Non-observance will result in the risk of serious injury or death to oneself or others.

This manual describes various versions of the machine, which mainly differ in:

- type of transmission: with mechanical gear-change or with hydrostatic continuous speed adjustment. The models with hydrostatic transmission can be recognised by the word "HYDRO" on the identification label (☞ 2.1);
- the inclusion of components or accessories which may not be available in some areas;
- special equipment fitted.

The symbol ☞ highlights all the differences in usage and is followed by the indication of the version to which it refers.

The symbol “☞” makes a reference to another part of the manual where further information or clarification can be found.

**NOTE** Whenever a reference is made to a position on the machine “front”, “back”, “left” or “right” hand side, this is determined by facing the direction of forward travel.

**IMPORTANT** For all usage and maintenance operations on the engine or the battery which are not described in this manual, consult the relevant manuals which form an integral part of all the documentation supplied with the machine.
1.2 SAFETY REGULATIONS
(read carefully before using the machine)

A) TRAINING

1) Read the instructions carefully. Be familiar with the controls and the proper use of the equipment.
2) Never allow children or people unfamiliar with these instructions to use the machine. Local regulations can restrict the age of the operator.
3) Never mow while people, especially children, or pets are nearby.
4) Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
5) Do not carry passengers.
6) All drivers should seek and obtain professional and practical instruction. Such instruction should emphasise:
   – the need for care and concentration when working with ride-on machines;
   – control of a ride-on machine sliding on a slope will not be regained by the application of the brake. The main reasons for loss of control are:
     – insufficient wheel grip;
     – being driven too fast;
     – inadequate braking;
     – the type of machine is unsuitable for its task;
     – lack of awareness of the effect of ground conditions, especially slopes;
     – incorrect hitching and load distribution.

B) PREPARATION

1) While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
2) Thoroughly inspect the area where the equipment is to be used and remove all objects which can be thrown by the machine.
3) DANGER! Petrol is highly flammable:
   – store fuel in containers specifically designed for this purpose;
   – refuel outdoors only and do not smoke while refuelling;
   – add fuel before starting the engine. Never remove the cap of the fuel tank or add petrol while the engine is running or when the engine is hot;
   – If petrol is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until the petrol vapours have dissipated;
   – replace all fuel tank and container caps securely.
4) Replace faulty silencers.
5) Before using, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
6) On multi-bladed machines, take care as rotating one blade can cause other blades to rotate.

C) OPERATION

1) Do not operate the engine in a confined space where dangerous carbon monoxide
fumes can collect.
2) Mow only in daylight or good artificial light.
3) Before attempting to start the engine, disengage all blade attachment clutches and shift into neutral.
4) Do not use on slopes of more than 10° (17%).
5) Remember there is no such thing as a “safe” slope. Travelling on grass slopes requires particular care. To guard against overturning:
   – do not stop or start suddenly when going up or downhill;
   – engage the clutch slowly and always keep the machine in gear, especially when travelling downhill;
   – machine speeds should be kept low on slopes and during tight turns;
   – stay alert for humps and hollows and other hidden hazards;
   – never mow across the face of the slope.
6) Use care when pulling loads or using heavy equipment:
   – use only approved drawbar hitch points;
   – limit loads to those you can safely control;
   – do not turn sharply. Use care when reversing;
   – use counterweight(s) or wheel weights when suggested in the instructions manual.
7) Stop the blades rotating before crossing surfaces other than grass.
8) Never operate the machine with defective guards, or without safety protective devices in place.
9) Do not change the engine governor settings or overspeed the engine. Operating the engine at excessive speed can increase the hazard of personal injury.
10) Before leaving the operator's position:
    – disengage the power take-off and lower the attachments;
    – change into neutral and set the parking brake;
    – stop the engine and remove the key.
11) Disengage drive to attachments, stop the engine and remove the ignition key:
    – before cleaning, checking or working on the machine;
    – after striking a foreign object. Inspect the machine for damage and make repairs before restarting and operating the equipment;
    – If the machine starts to vibrate abnormally (check immediately).
12) Disengage drive to blades when transporting or not in use.
13) Stop the engine and disengage drive to the attachment:
    – before refuelling.
14) Reduce the throttle setting during engine run-out and, if the engine is provided with a shut-off valve, cut off the fuel when you have finished mowing.

D) MAINTENANCE AND STORAGE

1) Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
2) Never store the equipment with petrol in the tank inside a building where fumes may reach an open flame or spark.
3) Allow the engine to cool before storing in any enclosure.
4) To reduce the fire hazard, keep the engine, silencer, battery compartment and petrol storage area free of grass, leaves, or excessive grease.
5) Replace worn or damaged parts for safety.
6) If the fuel tank has to be drained, this should be done outdoors.
7) On multi-bladed machines, take care as rotating one blade can cause other blades to rotate.
8) When the machine is to be stored or left unattended, lower the cutting deck.
1.3 SAFETY LABELS

Your machine must be used with care. Therefore, labels have been placed on the machine, to remind you pictorially of the main precautions to take during use. These labels are to be considered an integral part of the machine. Should a label fall off or become illegible, contact your Retailer to replace it. Their meaning is explained below.

**Warning:** Read the Operator’s Manual before operating this machine.

**Warning:** Disconnect the ignition key and read the instructions before carrying out any repair or maintenance work.

**Danger! Ejected objects:** Do not operate without the stone-guard in place.

**Danger! Ejected objects:** Keep bystanders away.

**Danger! Machine rollover:** Do not use this machine on slopes greater than 10°.

**Danger! Dismemberment:** Make sure that children stay clear of the machine all the time when engine is running.

**Danger of cutting yourself.** Blades in movement. Do not put hands or feet near or under the opening of the cutting plate.

1.4 REGULATIONS FOR TOWING

A kit for towing a small trailer is available on request. This accessory is to be fitted as per the instructions provided. When using, do not exceed the recommended drawbar loads stated on the label and follow the safety instructions, (☞ 1.2, C-6).
2. IDENTIFICATION OF THE MACHINE AND COMPONENTS

2.1 IDENTIFICATION OF THE MACHINE

The plate located near the battery housing has the essential data of each machine.

The serial number (6) must be quoted when you require technical assistance or spare parts.

1. Acoustic power level according to directive 2000/14/CE

2. Conformity mark according to directive 98/37/EEC

3. Year of manufacture

4. Operating engine speed in r.p.m (if indicated)

5. Type of machine

6. Serial number

7. Weight in kg

8. Name and address of Manufacturer

9. Type of transmission (if indicated)

2.2 IDENTIFICATION OF MAIN COMPONENTS

Various main components can be seen on the machine, and these have the following functions:

11. Cutting deck: this is the guard enclosing the rotating blades.
12. **Blades**: these are what cut the grass. The wings at the ends help convey the cut grass towards the exit.

13. **Stone-guard or deflector**: this prevents objects drawn up by the blades from being thrown outside of the machine.

14. **Engine**: this moves the blades and drives the wheels. Its specifications and regulations for use are described in a specific manual.

15. **Battery**: provides the energy for starting the engine. Its specifications and regulations for use are described in a specific manual.

16. **Driver seat**: this is where the machine operator sits. It has a sensor for detecting the presence of the operator which is a safety device.

17. **Labels for regulations and safety**: give reminders on the main provisions for working safely, each of which is explained in chapter 1.
3. UNPACKING AND ASSEMBLY

For storage and transport reasons, some components of the machine are not directly installed in the factory, but have to be assembled after their removal from the packing. Final assembly is carried out by following these simple instructions.

**IMPORTANT** The machine is supplied without engine oil or fuel. Before starting up the engine, fill with oil and fuel following the instructions given in the engine manual.

### 3.1 UNPACKING

When unpacking the machine, take care to gather all individual parts and fittings, and do not damage the cutting deck when taking the machine off the base pallet.

The packing contents:

- the machine;
- the battery;
- the steering wheel;
- the seat;
- the stone-guard components;
- an envelope containing:
  - the operator’s manuals and documents,
  - the nuts and bolts including a pin for blocking the steering wheel,
  - 2 starter keys and a spare 6.3 A fuse.

**NOTE** To prevent damaging the cutting deck when getting the machine down from the pallet, take it to the maximum height and be very careful.

For hydrostatic drive models: to make it easier to get the machine off the pallet and to move it, the drive disengage lever should be put in position «B» (☞ 4.33).
3.2 FITTING THE STEERING WHEEL

Put the machine on a flat surface and straighten up the front wheels. Fit the steering wheel (1) onto the protruding shaft (2) with the spokes directed towards the seat. Line up the hole in the steering wheel hub with the hole in the shaft and insert the pin supplied (3) using a hammer, ensuring that the end comes completely through to the opposite side.

**NOTE** To avoid damaging the steering wheel, use a punch or a screw-driver of the same size as the pin when hammering it in the last part.

3.3 FITTING THE SEAT

Fit the seat (1) onto the plate (2) using the screws (3).

3.4 ASSEMBLY AND CONNECTING THE BATTERY

Position the battery (1) in its compartment under the seat. Connect the two red cables (2) to the positive terminal (+) and the three black cables (3) to the negative terminal (–) using the supplied screws and following the illustrated sequence. Fit the spring (4) to hold the battery in place and make sure all the wires are in front of the battery so that they don’t get caught in the spring (4).

**IMPORTANT** Always fully charge the battery according to the instructions in the battery booklet (6.2.5).
**IMPORTANT** To prevent the safety device in the electronics card from cutting in, never start the engine until the battery is fully charged!

**WARNING!** Follow the battery manufacturer's instructions regarding safe handling and disposal.

### 3.5 FITTING THE STONE-GUARD

Inside the stone-guard (1), fit the spring (2) by inserting the terminal (2a) into the hole and turning it so that both the spring (2) and the terminal (2a) are securely positioned in their seatings.

Position the stone-guard (1) in line with the cutting deck brackets (3). Using a screwdriver, turn the second terminal (2b) of the spring (2) to bring it outside the stone-guard.

Fit the pin (4) in the holes on the brackets (3) and on the stone-guard, so that it passes through the coils of the spring (2) and the drilled end comes out of the innermost bracket.

Fit the cotter pin (5) in the hole (4a) of the pin (4) and turn the pin until the two ends (5a) of the split pin can be bent (using pliers), so that it cannot slip out and let the pin fall out (4).

**WARNING!** Check that the spring works correctly and keep the stone-guard securely lowered. Make sure that the pin is fitted properly to prevent it from falling out accidentally.
4. CONTROLS AND INSTRUMENTS

4.1 STEERING WHEEL
Turns the front wheels.

4.2 ACCELERATOR LEVER
This regulates the engine's r.p.m. The positions are indicated on a plate showing
the following symbols:

- «CHOKE» starting from cold
- «SLOW» for minimum engine speed
- «FAST» for maximum engine speed

- The «CHOKE» position enriches the mixture so must only be used for the time necessary when starting from cold.
- When moving from one area to another, put the lever in a position between «SLOW» and «FAST».
- When cutting, go to the «FAST» position.

4.3 Key ignition switch
This key operated control has three positions:

- «OFF» everything is switched off;
- «ON» activates all parts;
- «START» engages the starter motor.

On being released at the «START» position, the key will automatically return to «ON».

4.4 Parking brake lever
This lever is to stop the machine from moving when it has been parked. There are two positions:

- «A» = Brake off
- «B» = Brake engaged

- The brake is engaged by fully pressing the pedal (4.21 or 4.31) and moving the lever to position «B». When you take your foot off the pedal it will be blocked by the lever in the down position.
- To disengage the parking brake, press the pedal (4.21 or 4.31). The lever will return to position «A».
4.5 **Light Switch (if fitted)**
For turning on the lights when the key (4.3) is in the «ON» position.

4.6 **Pilot lamp**
This lamp comes on when the key (6) is in the “ON” position and stays on while the machine is running.

– When it flashes, it means that it is not ready for starting (☞ 5.2).

4.7 **Blade engagement and brake control**
The lever has two positions, as shown on the label:

- «A» = Blades disengaged
- «B» = Blades engaged

– If the blades are engaged when safety conditions have not been complied with, the engine shuts down and cannot be restarted (☞ 5.2).
– On disengaging the blades (Pos. «A»), a brake is simultaneously activated which stops their rotation in a few seconds.

4.8 **Cutting height adjusting lever**
There are seven positions for this lever, shown as «1» to «7» on the label, which correspond to various heights between 3 and 8 cm.

– To go from one height to another, press the release button at the end of the lever.

**For mechanical drive models:**

4.21 **Clutch / Brake pedal**
This pedal has a double function: during the first part of its travel it acts as a clutch, engaging and disengaging drive to the wheels, and in the second part it acts as a brake on the rear wheels.

**IMPORTANT**  
*Do not keep the pedal half way between clutch engage-
ment or disengagement, as this can cause overheating and damage the transmission belt.

NOTE When the machine is in movement, keep your foot off the pedal.

4.22 SPEED CHANGE LEVER
This lever has seven positions for the 5 forward speeds, the neutral position «N», and reverse «R».

To go from one speed to another, press the pedal (4.21) half way and move the lever as per the indications on the label.

WARNING! Reverse must only be engaged when the machine is stopped.

For hydrostatic drive models:

4.31 BRAKE PEDAL
This pedal works the brake on the rear wheels.

4.32 DRIVE ENGAGEMENT PEDAL
This pedal engages drive in the wheels as well as modulating the machine’s forward and reverse speeds.

- To engage forward drive just press it in the «F» direction with
your toe-cap, noting that increasing the pressure on the pedal progressively increases the speed of the machine.

- Reverse is engaged by pressing the pedal with the heel, in the "R" direction.
- The pedal automatically goes into neutral "N" when released.

⚠️ WARNING! Reverse must only be engaged when the machine is stopped.

**NOTE** If the drive pedal is used, whether forwards or for reverse, when the parking brake (4.4) is engaged, the engine stops.

---

### 4.33 LEVER TO RELEASE THE HYDROSTATIC TRANSMISSION

The lever has two positions, as shown by the symbols:

- «A» = Transmission engaged: for all usage conditions, when moving and during cutting;
- «B» = Transmission released: considerably reduces the effort required for moving the machine by hand, with the **engine turned off**.

**IMPORTANT** To avoid damaging the transmission unit, this operation must be carried out only when the engine has stopped with the pedal (4.32) at position “N”.
5. HOW TO USE THE MACHINE

5.1 SAFETY RECOMMENDATIONS

⚠️ DANGER! The machine must only be used for the purpose for which it was designed (cutting grass).
Do not tamper with or remove the safety devices fitted to the machine.
REMEMBER THAT THE USER IS ALWAYS RESPONSIBLE FOR DAMAGE AND INJURIES TO OTHERS. Before using the machine:
– read the general safety regulations (☞ 1.2), paying particular attention to driving and cutting on slopes;
– carefully read the instructions for use, become familiar with the controls and on how to quickly stop the blades and engine;
– never put your hands or feet next to or beneath the rotating parts and always keep away from the discharge opening.
Do not use the machine when in a precarious state of health or under the effect of medicines or other substances that can reduce your reflex actions and your ability to concentrate.
It is the user's responsibility to assess the potential risk of the area where work is to be carried out, as well as to take all the necessary steps to ensure his own safety and that of others, particularly on slopes or rough, slippery and unstable ground.
Do not leave the machine stopped on high grass with the engine running to avoid the risk of starting a fire.

⚠️ WARNING! This machine must not be used on slopes greater than 10° (17%) (☞ 5.5). If the machine is likely to be used mostly on sloping ground (never above 10°), fit counterweights (supplied on request ☞ 8.1) beneath the cross-member of the front wheels which improve stability at the front and reduce the chance of tipping up.

IMPORTANT All the references relating to the positions of controls are those described in chapter 4.

5.2 WHY THE SAFETY DEVICES CUT IN

The safety devices work in two ways
– by preventing the engine from starting if all the safety requirements have not been met;
- stopping the engine if even just one of the safety requirements is lacking.

a) To start the engine it will be necessary that:

- the transmission is in “neutral”;
- the blades are not engaged;
- the operator is seated or the parking brake is engaged.

b) The engine stops when:

- the operator leaves his seat when the blades are engaged;
- the operator leaves his seat when the transmission is not in “neutral”;
- the operator leaves his seat with the transmission in “neutral” but without engaging the parking brake;
- the parking brake is engaged without disengaging the blades.

The table below shows various operating conditions, **highlighting** why the safety device shuts down the engine.

<table>
<thead>
<tr>
<th>OPERATOR</th>
<th>BLADES</th>
<th>TRANSMISSION</th>
<th>BRAKE</th>
<th>ENGINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) WHEN STARTING (Key in «START» position)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uninfluential</td>
<td>Disengaged</td>
<td>1....5 - F/R</td>
<td>Engaged</td>
<td>Does NOT start</td>
</tr>
<tr>
<td>Uninfluential</td>
<td>Engaged</td>
<td>«N»</td>
<td>Engaged</td>
<td>Does NOT start</td>
</tr>
<tr>
<td>Absent</td>
<td>Disengaged</td>
<td>«N»</td>
<td>Disengaged</td>
<td>Does NOT start</td>
</tr>
<tr>
<td>B) WHEN CUTTING (Key in «ON» position)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Absent</td>
<td>Engaged</td>
<td>Uninfluential</td>
<td>Engaged</td>
<td>Stops</td>
</tr>
<tr>
<td>Absent</td>
<td>Disengaged</td>
<td>1....5 - F/R</td>
<td>Disengaged</td>
<td>Stops</td>
</tr>
<tr>
<td>Absent</td>
<td>Disengaged</td>
<td>«N»</td>
<td>Disengaged</td>
<td>Stops</td>
</tr>
<tr>
<td>Sitting</td>
<td>Engaged</td>
<td>Ininfluential</td>
<td>Engaged</td>
<td>Stops</td>
</tr>
</tbody>
</table>
5.3 DIRECTIONS BEFORE STARTING THE WORK

Before starting work, it is necessary to carry out several checks and operations to ensure that the work gives the best results and is done in maximum safety.

5.3.1 SEAT ADJUSTMENT

To change the seat position, loosen the four fixing bolts (1) and slide it along the bracket slots.

Once you have found the position, tighten the four screws (1).

5.3.2 TYRE PRESSURE

Having the correct tyre pressure is the main condition for ensuring that the cutting deck is horizontal and thus mows evenly.

Unscrew the valve caps and connect a compressed air line with a gauge to the valves.

The pressures are:

- FRONT 1.5 bar
- REAR 1.2 bar

5.3.3 FILLING WITH OIL AND FUEL

NOTE The type of oil and fuel to use is given in the engine manual.

With the engine stopped, check its oil level: according to the exact methods
described in the engine manual, this must be between the MIN and MAX marks on the dipstick.

Refuel using a funnel, but do not completely fill the tank. The tank's capacity is about 5.5 litres.

⚠️ **DANGER!**  Refuelling should be carried out in an open or well ventilated area with engine stopped. Always remember that petrol fumes are inflammable. **DO NOT TAKE A NAKED FLAME TO THE TANK’S OPENING IN ORDER TO SEE THE TANK’S CONTENTS AND DO NOT SMOKE WHEN REFUELLING.**

**IMPORTANT**  Do not drip petrol onto the plastic parts to avoid ruining them. In the event of accidental leaks, rinse immediately with water.

### 5.3.4 Checking the Protection at the Exit (Stone-Guard)

⚠️ **WARNING!**  Never use the machine without the exit protection in place!

Always check that the inner spring of the stone-guard (1) works properly, whilst keeping it securely lowered.
5.3.5 Checking the Effectiveness of the Safety Devices

Check that the safety systems are working properly by simulating the various situations of usage shown in the table (☞ 5.2) and making sure that the correct result is achieved for each situation.

5.3.6 Checking the Braking System

Make sure that the machine’s breaking capacity is suited to the conditions of use. Do not start mowing if you have any doubts on the brake efficiency. If doubts on its efficiency persist, consult a Licensed Service Centre.

5.3.7 Checking the Blades

Check that the blades are sharpened properly and firmly fixed to their hubs.

– A badly sharpened blade pulls at the grass and makes the lawn turn yellow.
– A loose blade causes unusual vibrations and can be dangerous.

⚠️ WARNING! Wear strong gloves when handling the blades.

5.4 Using the Machine

5.4.1 Starting

⚠️ DANGER! All starting operations have to be effected in an open or well ventilated area! ALWAYS REMEMBER THAT EXHAUST GASES ARE TOXIC!

To start the engine:
– open the fuel stopcock (1) (☞ if fitted);
– put the transmission into neutral («N») (☞ 4.22 or 4.32);
– disengage the blades (☞ 4.7);
– engage the parking brake on sloping ground;
– when starting from cold, move the accelerator lever to the «CHOKE» position shown on the label;
- if the engine is already warm, just put the lever between «SLOW» and «FAST»;
- put in the key and turn to «ON» to make electrical contact, then turn to «START» to start the engine;
- release the key once the engine has started.

When the engine has started, put the accelerator in the «SLOW» position.

**IMPORTANT** The choke must be closed as soon as the engine is running smoothly. Using it when the engine is already warm can foul the spark plugs and cause the engine to run erratically.

**NOTE** The choke must be closed as soon as the engine is running smoothly. Using it when the engine is already warm can foul the spark plugs and cause the engine to run erratically. Turn the key to the «OFF» position, wait for a few seconds and then repeat the operation. If the malfunction continues, refer to chapter «7» of this manual and to the engine manual.

**IMPORTANT** Always bear in mind that the safety devices prevent the engine from starting if safety requirements have not been met (☞ 5.2). In these cases, once the situation has been corrected, the key must first be turned back to «OFF» before the engine can be restarted.

### 5.4.2 Starting and moving without mowing

**WARNING!** This machine has not been approved for use on public roads. It has to be used (as indicated by the highway code) in private areas closed to traffic.

**NOTE** When moving the machine, the blades must be disengaged and the cutting deck put at its highest position (position «7»).
**For mechanical drive models:**

- Put the accelerator control between the «SLOW» and «FAST» positions, and the gear change lever in the 1st speed position (☞ 4.22).
- Keep the pedal pressed down and disengage the parking brake. Slowly release the pedal which will turn from «brake» to «clutch», thus operating the rear wheels (☞ 4.21).

**WARNING! The pedal has to be released gradually as a sudden engagement may cause tipping up and loss of control of the vehicle.**

- Gradually reach the desired operating speed using the accelerator and gear lever. To change the gear speed the clutch must be used pushing the pedal half way down (☞ 4.21).

**For hydrostatic drive models:**

- When moving the machine from one area to another, put the accelerator lever in a midway position between «SLOW» and «FAST».
- Disengage the parking brake and release the brake pedal (☞ 4.31).

- Press the drive pedal (☞ 4.32) in direction »F« and reach the required speed by progressively increasing pressure on the pedal and moving the accelerator appropriately.

**WARNING! Drive must be engaged in the way already described (☞ 4.32) to prevent sudden engagement from causing tipping up and loss of control of the vehicle, particularly on slopes.**

### 5.4.3 Braking

First, reduce the machine’s speed by reducing the engine’s r.p.m. and then push the brake pedal (☞ 4.21 or 4.31) to further reduce the speed until the machine stops.

**For hydrostatic drive models:**

- **NOTE** The machine already slows down considerably by just releasing the drive pedal.
5.4.4 Reverse

Reverse must be engaged ONLY when the machine is stopped.

> For mechanical drive models:

• Push down the pedal until the machine stops and then go into reverse by moving the lever sideways and putting it into position «R» (☞ 4.22). Gradually release the pedal to engage the clutch and then begin moving in reverse.

> For hydrostatic drive models:

• When the machine is stopped, start the reverse movement by pressing the drive pedal in the «R» direction (☞ 4.32).

5.4.5 Grass cutting

When you have reached the area to be mowed, make sure that the cutting deck wheels are positioned at the required height.

Each wheel can be fitted at two different heights: the low position always leaves a space between the ground and the edge of the cutting deck to prevent the deck from damaging the lawn if the ground is uneven. The higher position excludes this possibility.

To change the position unscrew and remove the pin (1) then reposition the wheel (2) in the upper and lower hole of the wale corresponding to the wheel diameter.

⚠️ WARNING! This work is to be done to both wheels, WITH THE ENGINE OFF AND THE BLADES DIENGAGED.

To start cutting:

- put the accelerator into the «FAST» position;
- bring the cutting deck to the highest position;
– engage the blades (☞ 4.9);
– start moving forwards onto the grass area very gradually and with particular caution, as already described;
– adjust the forward speed and the cutting height (☞ 4.8) according to the lawn condition (height, density and dampness of the grass). On flat ground, these general conditions can be followed:

<table>
<thead>
<tr>
<th>Condition</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>High and dense grass - wet lawn</td>
<td>2 km/h</td>
</tr>
<tr>
<td>Average condition grass</td>
<td>3,5 ... 5,5 km/h</td>
</tr>
<tr>
<td>Low grass - dry lawn</td>
<td>over 5,5 km/h</td>
</tr>
</tbody>
</table>

For hydrostatic drive models:

- The speed is controlled in a gradual and progressive way by the pressure on the drive pedal.

⚠️ WARNING! When cutting on sloping ground, the forward speed must be reduced to ensure safe conditions (☞ 1.2 - 5.5).

In any case, the speed should always be lowered if you note a reduction in engine speed, since a forward speed that is too fast compared to the amount of grass being cut will never mow the grass well.

Disengage the blades and put the cutting deck in the highest position whenever you need to get past an obstacle.

5.4.6 END OF MOWING

When you have finished mowing, disengage the blades, lower the engine speed and ride the machine with the cutting deck in the highest position.

5.4.7 END OF WORK

Stop the machine, put the accelerator lever in the «SLOW» position and turn off
the engine by putting the key into the «OFF» position.

When the engine is stopped, close the fuel stopcock (1) (if fitted).

**WARNING!** To avoid backfire, put the accelerator in the «SLOW» position for 20 seconds before stopping the engine.

**WARNING!** Always take out the ignition key if leaving the machine unattended!

**IMPORTANT** To keep the battery charged, do not leave the key in the «ON» position when the engine is not running.

---

### 5.4.8 Cleaning and Storage

After each mowing, clean the outside of the machine.

**WARNING!** Do not leave containers full of cut grass inside a room.

Clean the plastic parts of the body with a damp sponge using water and detergent, taking care not to wet the engine, the electrical parts or the electronic card located under the dashboard.

**IMPORTANT** Never use hose-nozzles or harsh detergents for cleaning the body and engine!

For washing the inside of the cutting deck, the machine must be on firm ground with:

- the stone-guard in place;
- the operator seated;
- the engine running;
- the transmission in neutral;
- the blades engaged.
Connect a water hose to each of the pipe fittings (1) one at a time and run water through each one for a few minutes, with the blades moving.

When washing, the cutting deck should be in the fully lowered position.

Put the machine away in a dry place protected from weather and, if possible, cover with a cloth (☞ 8.3).

5.4.9 Storage and inactivity for long periods

If the machine is likely to be unused for a long period (more than 1 month), disconnect the cables from the battery and follow the instructions in the engine manual. Lubricate all joints as directed (☞ 6.2.1).

⚠️ WARNING! Carefully remove any dry grass cuttings which may have collected around the engine or silencer to prevent their catching fire the next time the machine is used!

Empty the fuel tank by disconnecting the tube situated at the inlet of the fuel filter (1) and follow the instructions in the engine manual.

**IMPORTANT** The battery must be kept in a cool and dry place. Before a long storage period (more than 1 month), always charge the battery, and then recharge before using again (☞ 6.2.5).

The next time the machine is used, check that there are no fuel leaks from the tubes, fuel stopcock or carburettor.
5.4.10 CARD PROTECTION DEVICE

The electronic card has a self-resetting protector which breaks the circuit if there is a fault in the electrical system. It results in the stopping of the engine and the lighting up of the lamp.

The circuit automatically resets after a few seconds but the cause of the fault should be ascertained and dealt with to avoid reactivating the protection device.

**IMPORTANT** To avoid activating the protection device.
- do not reverse the leads on the battery terminals;
- do not use the machine without its battery or damage may be caused to the charging regulator;
- be careful not to cause short-circuits.

5.4.11 SUMMARY OF THE MAIN ACTIONS TO BE CARRIED OUT WHEN USING THE MACHINE

| To ... | You will need to ...
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Start the engine (☞ 5.4.1)</td>
<td>Open the fuel stopcock, ensure that all the conditions allowing starting are met, and then turn the key.</td>
</tr>
</tbody>
</table>
| Go forward (☞ 5.4.2) | Move the accelerator;  
☞ *for mechanical drive models*: push the pedal right down, engage the gear (☞ 4.22) and then gradually release the pedal;  
☞ *for hydrostatic drive models*: press the drive pedal forward; (☞ 4.32); |
| Brake or stop (☞ 5.4.3) | Reduce the engine speed and press the brake pedal. |
| Reverse (☞ 5.4.4) | Stop the machine;  
☞ *for mechanical drive models*: put into neutral (N), push the pedal right down, engage reverse, (☞ 4.22) and then gradually release the pedal;  
☞ *for hydrostatic drive models*: press the drive pedal back (☞ 4.32). |
| Cut the grass (☞ 5.4.5) | Move the accelerator; engage the blades and adjust the cutting height.  
☞ *for mechanical drive models*: push the pedal right down, engage the gear (☞ 4.22) and then gradually release the pedal;  
☞ *for hydrostatic drive models*: press the drive pedal forward; (☞ 4.32); |
To ... | You will need to ...
---|---
End mowing (5.4.6) | Disengage the blades and reduce the engine speed.
Stop the engine (5.4.7) | Reduce the engine speed, wait a few seconds, turn the key and close the fuel stopcock.
Store the machine (5.4.8) | Engage the parking brake, remove the key and, if necessary, wash the machine and the inside of the cutting deck.

5.5 USING ON SLOPING GROUND

Only mow on slopes with gradients up to the maximum already mentioned (max 10° - 17%). Lawns on a slope have to be mowed moving up and down and never across them, taking great care when changing direction that the highest wheels do not hit obstacles (such as stones, branches, roots, etc.) that may cause the machine to slide sideways, tip over or otherwise cause loss of control.

⚠️ DANGER! ⚠️ REDUCE SPEED BEFORE ANY CHANGE OF DIRECTION ON SLOPES, and always engage the parking brake before leaving the machine stopped and unattended.

⚠️ WARNING! ⚠️ Take care when beginning forward movement on sloping ground to prevent the risk of tipping up.
Reduce the forward speed before going on a slope, particularly downhill.

⚠️ DANGER! ⚠️ Never use reverse to reduce speed going downhill.
Control of the machine may be lost, particularly on slippery surfaces.

➤ For mechanical drive models:

- ⚠️ DANGER! ⚠️ Never ride the machine on slopes in neutral gear or
• with the clutch out! Always engage a low gear before leaving the machine stopped and unattended.

➤ For hydrostatic drive models:

• Go down slopes without touching the pedal (☞ 4.32) to take advantage of the braking effect of the hydrostatic drive when the transmission is not engaged.

5.6 TRANSPORTING

⚠️ WARNING! If the machine is transported on a truck or trailer, use suitable equipment for lifting and an appropriate number of people for the weight involved and the type of lifting system used. The machine must never be lifted by rope and tackle. While being transported, close the fuel stopcock (☞ if fitted), lower the cutting deck, engage the parking brake and fasten the machine securely with ropes or chains to the hauling device.

5.7 ADVICE ON HOW TO OBTAIN A GOOD CUT

1. To keep a lawn green and soft with a good appearance it should be cut regularly without damaging the grass.

2. It is always better to cut the grass when dry.

3. The blades must be in good condition and well sharpened so that the grass is cut straight without any ragged edge that leads to yellowing at the ends.

4. The engine must run at full speed, both to ensure a sharp cut of the grass and to get the necessary thrust to push the cuttings towards the exit.

5. The frequency of mowing should be in relation to the rate of growth of the grass, which should not be left to grow too much between one cut and the next.

6. During hot and dry periods, the grass should be cut a little higher to prevent the ground from drying out.
7. If the grass is very tall, it should be cut twice in a twenty-four hour period. The first time with the blades at maximum height, possibly reducing the cutting width, and the second cut at the height wanted.

8. The appearance of the lawn will improve if you alternate the cutting in both directions.

9. If the engine speed is lowered while you are cutting grass or if the cutting deck tends to get blocked, you should reduce the forward speed since this may be too high for the condition of the grass. If the problem persists, the probable causes are either badly sharpened blades or deformed wings.

10. Be very careful when mowing near bushes or kerbs since these could distort the horizontal position of the cutting deck, and damage its edge as well as the blades.
6. MAINTENANCE

6.1 SAFETY RECOMMENDATIONS

⚠️ WARNING! Before cleaning, maintenance or repair work, take out the ignition key and read the relevant instructions. Wear suitable clothing and strong gloves when dismantling and refitting the blades and in all other hazardous situations for hands.

⚠️ WARNING! Never use the machine with worn or damaged parts. Faulty or worn-out parts must always be replaced and not repaired. Only use genuine spare parts: those that are not of an equivalent quality may damage the machine or endanger the safety of yourself and others.

IMPORTANT Never get rid of used oil, fuel or other pollutants in unauthorised places!

6.1.1 LIFTING THE FRONT

If you need to have easy access to the lower part of the machine, it is possible to lift the front part of the machine.

⚠️ WARNING! Place the machine on firm and flat ground. At least two competent people should be involved in this operation to assure necessary safety.

Position a support block (1) in wood (other other material) that can bear the weight of the machine; it should be 30-35 cm high with a base of at least 100 x 25 cm.

To stop the machine from accidentally moving backwards:

- engage the parking brake;
- shift the gear lever to 1st gear (☞ in the mechanical transmission models) or (☞ in the hydrostatic models) check that the transmission release lever (☞ 4.33) is in position «A» (engaged).
- position a wedge (2) behind each of the two rear wheels.
- raise the back of the machine, holding the parts with a secure grip. Then push the support block (1) under the rear wheels and lower the machine until the wheels rest on the block.

⚠️ DANGER! **Check that the machine is stable before doing any work and avoid carrying out any operations that can cause it to fall.**

6.2 ROUTINE MAINTENANCE

6.2.1 MAINTENANCE AND GENERAL LUBRICATION

Follow the diagrams which show the points requiring checks, lubrication and routine maintenance, together with the type of lubricant to be used and the frequency required.

a) Routine maintenance (☞ 6.2.2)
b) Lubrication

- For mechanical drive models:
  - GREASE
  - OIL - SAE 30

- For hydrostatic drive models:
### 6.2.2 Guide to Scheduled Maintenance

This table is to help you maintain your machine’s safety and performance. It shows the main maintenance and lubrication work, indicating the frequency with which it should be carried out. To the right of each item there is a box where you write the date or after how many hours of operation the work was carried out.

<table>
<thead>
<tr>
<th>Work Description</th>
<th>Hours</th>
<th>Done (Date or No. of Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. MACHINE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1 Check of tight fixing and sharpness of blades</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>1.2 Blade replacement</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>1.3 Transmission belt check</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>1.4 Transmission belt replacement</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>1.5 Check the blade drive belt</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>1.6 Blade drive belt replacement</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>1.7 Check and adjustment of drive</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>1.8 Check engagement and brake of blade</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>1.9 Check all fastenings for tight fitting</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>1.10 General lubrication</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td><strong>2. ENGINE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.1 Engine oil change</td>
<td>.....</td>
<td></td>
</tr>
<tr>
<td>2.2 Check and cleaning of air filter</td>
<td>.....</td>
<td></td>
</tr>
<tr>
<td>2.3 Air filter replacement</td>
<td>.....</td>
<td></td>
</tr>
<tr>
<td>2.4 Check fuel filter</td>
<td>.....</td>
<td></td>
</tr>
<tr>
<td>2.5 Fuel filter replacement</td>
<td>.....</td>
<td></td>
</tr>
<tr>
<td>2.6 Check and cleaning of spark plug points</td>
<td>.....</td>
<td></td>
</tr>
<tr>
<td>2.7 Replacement of spark plug</td>
<td>.....</td>
<td></td>
</tr>
</tbody>
</table>

1) See the engine manual for the full list and frequency.
2) Replace at the first signs of wear, contacting a Licensed Service Centre.
3) General lubrication should also be carried out whenever the machine is to be left unused for a long period.
6.2.3 ENGINE

Follow all the instructions in the engine manual.

To empty the engine oil, unscrew the oil plug (1). When refitting the plug, make sure the seal is positioned correctly.

6.2.4 REAR AXLE

This is a sealed single unit that does not require maintenance. It is permanently lubricated and this lubricant does not need changing or topping up.

6.2.5 BATTERY

To ensure long life to the battery it is essential to keep it carefully maintained. The machine battery must always be charged:
- before using the machine for the first time after purchase;
- before leaving the machine for a prolonged period of disuse;
- before starting up the machine after a prolonged period of disuse.

- Carefully read and observe the recharging procedure described in the booklet provided with the battery. Failure in following the procedure or in charging the battery could permanently damage the battery elements.
- A flat battery must be recharged as soon as possible.

**IMPORTANT** Recharging must be done using a battery charger at constant voltage. Other recharging systems can irreversibly damage the battery.

The machine comes with a connector (1) for recharging, to be connected to the cor-
responding connector of the special “CB01” maintenance battery-charger supplied (if included) or available on request (8.5).

**IMPORTANT** This connector must only be used for connection to the “CB01” maintenance battery-charger. For its use:
- follow the instructions given in the relative user manual,
- follow the instructions given in the battery booklet.

### 6.3 CHECKS AND ADJUSTMENTS

**Summary of the main situations where work may be required**

<table>
<thead>
<tr>
<th>Every time that ...</th>
<th>You will need to ...</th>
</tr>
</thead>
<tbody>
<tr>
<td>The blades vibrate</td>
<td>Check the bolts (6.3.1) or balance the blades (6.3.1).</td>
</tr>
<tr>
<td>The blades tear the grass and the lawn becomes yellow</td>
<td>Sharpen the blades (6.3.1).</td>
</tr>
<tr>
<td>The cut is uneven</td>
<td>Adjust the alignment of the cutting deck (6.3.2).</td>
</tr>
<tr>
<td>The blades engage in an abnormal way</td>
<td>Regulate the blade engagement adjuster (6.3.3).</td>
</tr>
<tr>
<td>The machine does not brake</td>
<td>Check the brake (6.3.4).</td>
</tr>
<tr>
<td>Forward movement is erratic</td>
<td>Adjust the stretcher spring (6.3.5).</td>
</tr>
</tbody>
</table>

### 6.3.1 DISMANTLING, SHARPENING AND BALANCING BLADES

Check that the blade is sharpened properly and firmly fixed to the bracket.
- A badly sharpened blade pulls at the grass and causes the lawn to turn yellow.
- A loose blade causes unusual vibrations and can be dangerous.

**WARNING!** All operations on the blades (dismantling, sharpening, balancing, remounting and/or replacing) require a certain familiarity and special tools. For safety reasons, go to a specialized centre if you do not have the right tools or experience.

**WARNING!** Wear strong gloves when handling the blades.

To remove a blade, hold it firmly and undo the central bolt (1) in the direction
indicated by the arrow.

Sharpen the two cutting edges using a medium grade grinding wheel and check the balance by holding the blade up with a round 18 mm Ø bar inserted in the central hole.

**WARNING!** Damaged or bent blades must always be replaced; never try to repair them! ALWAYS USE MANUFACTURER’S GENUINE REPLACEMENT BLADES BEARING THE SYMBOL !

**WARNING!** When assembling the blade, always follow the instructions given, making sure the blade wings are facing towards the inside of the cutting deck and the cupped side of the elastic disc (1) is pressing against the blade. Tighten the fixing screws (2) using a torque wrench set to 45-50 Nm. If one or both shaft hubs (3) come off when dismantling the blades, make sure the keys (4) are securely lodged in place.

### 6.3.2 Cutting Deck Alignment

The cutting deck should be properly set to obtain a good cut

**NOTE** For achieving good results from cutting, the front part should always be 5 - 6 mm lower than the rear.
- Put the machine onto a flat surface and check the tyre pressures;

- put 26 mm blocks (1) under the front edge of the deck and 32 mm blocks (2) under the rear edge, and then put the lifting lever into position «1»;

- fully loosen the adjuster (3), the nuts (4 – 6 – 8) and the locknuts (5 – 7 – 9) of the three trace rods until the deck is resting on the blocks;

- screw the two upper right nuts (6 – 8) and the lower left nut (4) until the deck starts rising; tighten the three locknuts (5 – 7 – 9) and turn the adjuster (3) until the control cable is taut.

Any difference in height from the ground between the right and left side of the deck can be compensated by turning the two nuts (4 – 8) and locknuts (5 – 9) of just the back rods.

Move the control lever to 2 or 3 different positions, making sure that the deck rises evenly and that the difference in height from the ground remains the same between the front and rear edge.

If the front part rises too early or too late, you can regulate the movement by turning the nuts (10) on the connecting rod (11).

Screwing the nuts on the rod makes the rear part rise earlier, while unscrewing them does the opposite.

Always remember to fully tighten all the nuts and locknuts when the adjustment has been made.

If you are unable to get the cutting deck adjusted properly, consult a Licensed Service Centre.
6.3.3 ADJUSTMENT TO THE ENGAGEMENT AND BRAKE OF THE BLADES

When the blade disengagement lever is operated, it also brings the blade brake into operation which stops the blades within few seconds.

A stretched cable and changes in the length of the belt can impair the blades’ engagement or rotation.

To compensate this, turn the adjuster (1) until the correct spring length (2) is achieved (measured from the outer ends of the springs with the blades engaged).

6.3.4 BRAKE ADJUSTMENT

Should the brakes work poorly, consult a Licensed Service Centre immediately.

6.3.5 ADJUSTING THE TENSION OF THE DRIVE BELT

Should you notice a drop in forward drive power, adjust the tension of the spring of the stretcher to return to former conditions.

The adjustment is made by opening the engine hood to reach the right side of the engine.

Turn the nuts (2) as much as necessary to reach length “A” of the spring (1) of:

\[
A = \begin{align*}
119 & \text{ - } 121 \text{ mm (For mechanical drive models)} \\
120 & \text{ - } 122 \text{ mm (For hydrostatic drive models)}
\end{align*}
\]

measured to the outside of the end of the spring. When the adjustment has been made, tighten the nuts (2).
6.4 DISMANTLING AND REPLACEMENT

6.4.1 REPLACING WHEELS

Stop the machine on a flat surface and put a block under a load-bearing part of the frame on the side that the wheel is to be changed.

The wheels are held by a snap ring (1) which can be eased off with a screwdriver.

The rear wheels are directly coupled to the differential axle shaft and fastened by a key that forms part of the wheel's hub.

NOTE
When replacing the belt, take great care when using for the first few times as engagement may be sudden until the belt is sufficiently run in.

NOTE
Should you substitute one or both rear wheels, ensure that they are of the same diameter, and check that cutting deck is horizontal to prevent an uneven cut.

IMPORTANT
Before refitting a wheel, smear some waterproof grease on the axle and carefully refit the snap ring (1) and washer (2).

6.4.2 REPLACING AND REPAIRING TYRES

The tyres are of the «Tubeless» type and therefore all puncture repairs will have to be carried out by a tyre-repair expert in accordance with the methods for this kind of tyre.
6.4.3 Replacing bulbs (if fitted)

The bulbs (18W) have a bayonet fitting and are installed in the bulb holder which can be taken out by turning it anti-clockwise, using pliers.

6.4.4 Replacing a fuse

The machine is fitted with fuses (1) with different capacities and functions. Specifically:

- 6.3 A (delayed) fuse (1) = protects the main and power circuits of the electronic board. When it blows, the machine stops and the dashboard light switches off.
- 25 A fuse (2) = protects the battery charger circuit. When it blows, the battery gradually runs out and the machine will have problems starting.

The fuse capacity is indicated on the fuse.

**IMPORTANT** A blown fuse must always be replaced by one of the same type and ampere rating, and never with one of another rating.

If you cannot find out why the fuse has blown, consult a Licensed Service Centre.

6.4.5 Replacing belts

Replacing belts is quite a complicated process of dismantling and subsequent adjustment and must only be carried out by a Licensed Service Centre.

**NOTE** Replace the belts as soon as they show obvious signs of wear! ALWAYS USE GENUINE REPLACEMENT BELTS!
### TROUBLESHOOTING

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>LIKELY CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. With the key on «ON», the light remains off</td>
<td>The protection of the electronic card has cut in due to: - badly connected battery - battery terminals crossed - completely flat battery or eroded battery plates - fuse blown - bad earthing to the engine or the frame - electronic card wet - earthed micro-switches</td>
<td>Turn the key to «STOP» and look for the cause of the problem: - check connections (☞ 3.4) - check connections (☞ 3.4) - recharge battery (☞ 6.2.5) - replace fuse (6.3 A - delayed) (☞ 6.4.4) - check connections of black earth leads - dry using tepid air - check connections</td>
</tr>
<tr>
<td>2. With the key on «START» the light flashes and the starter motor does not run</td>
<td>- you are not ready for starting</td>
<td>- check that the conditions allowing starting are met (☞ 5.2.a)</td>
</tr>
<tr>
<td>3. With the key on «START» the light comes on but the starter motor does not run</td>
<td>- insufficiently charged battery - battery charger fuse blown - badly earthing starter motor</td>
<td>- recharge battery (☞ 6.2.5) - replace fuse (25 A) (☞ 6.4.4) - check earth connections</td>
</tr>
<tr>
<td>4. With the key on «START», the starter motor runs, but the engine does not run</td>
<td>- insufficiently charged battery - faulty fuel supply</td>
<td>- recharge battery (☞ 6.2.5) - check the level in the tank (☞ 5.3.3) - open the fuel stopcock (☞ 5.3.3) (if fitted) - check the wiring of the fuel open command (☞ 5.4.1) (if fitted) - check the fuel filter - faulty ignition</td>
</tr>
<tr>
<td>5. Starting is difficult or the engine runs erratically</td>
<td>- fault in carburation</td>
<td>- clean or replace the air filter - flush out the float chamber - empty fuel tank and refill with fresh fuel - check and, if necessary, replace fuel filter</td>
</tr>
<tr>
<td>PROBLEM</td>
<td>LIKELY CAUSE</td>
<td>SOLUTION</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>6. Weak engine performance during cutting</td>
<td>– forward speed too high in relation to cutting height (☞ 5.4.5)</td>
<td>– reduce the forward speed and/or raise the cutting deck</td>
</tr>
<tr>
<td>7. The engine stops but the light flashes</td>
<td>– the safety devices cut in</td>
<td>– check that the conditions allowing starting are met (☞ 5.2.b)</td>
</tr>
<tr>
<td>8. The engine stops and the light goes off</td>
<td>The protection of the electronic card has cut in due to:</td>
<td>Put the key in position «STOP» and look for the cause of the problem:</td>
</tr>
<tr>
<td></td>
<td>– earthed micro-switch</td>
<td>– check connections</td>
</tr>
<tr>
<td></td>
<td>– battery contains electrolyte but is not charged</td>
<td>– recharge battery (☞ 6.2.5)</td>
</tr>
<tr>
<td></td>
<td>– overvoltage caused by the charge regulator</td>
<td>– contact a Licensed Service Centre</td>
</tr>
<tr>
<td></td>
<td>– badly connected battery (poor contact)</td>
<td>– check connections (☞ 3.4)</td>
</tr>
<tr>
<td></td>
<td>– engine badly earthed</td>
<td>– check engine earth connection</td>
</tr>
<tr>
<td>9. The engine stops but the light stays on</td>
<td>– problems in the engine</td>
<td>– contact a Licensed Service Centre</td>
</tr>
<tr>
<td>10. The blades do not engage</td>
<td>– cable lengthened or belt loosened</td>
<td>– turn the adjuster (☞ 6.3.3)</td>
</tr>
<tr>
<td>11. Uneven cutting and ejection</td>
<td>– cutting deck not parallel to the ground</td>
<td>– check the tyre pressures (☞ 5.3.2)</td>
</tr>
<tr>
<td></td>
<td>– blade cutting badly</td>
<td>– realign the cutting deck to the ground (☞ 6.3.2)</td>
</tr>
<tr>
<td></td>
<td>– forward speed too high compared to height of grass (☞ 5.4.5)</td>
<td>– check that the blades are fitted properly (☞ 6.3.1)</td>
</tr>
<tr>
<td></td>
<td>– sharpen or fit new blades (☞ 6.3.1)</td>
<td>– sharpen or fit new blades (☞ 6.3.1)</td>
</tr>
<tr>
<td></td>
<td>– check the tension of the belt and control cable of the blade engagement</td>
<td>– check the tension of the belt and control cable of the blade engagement lever (☞ 6.3.3)</td>
</tr>
<tr>
<td></td>
<td>lever (☞ 6.3.3)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>– forward speed too high compared to height of grass (☞ 5.4.5)</td>
<td>– reduce forward speed and/or raise the cutting deck</td>
</tr>
<tr>
<td></td>
<td>– wait for the grass to dry</td>
<td>– wait for the grass to dry</td>
</tr>
<tr>
<td></td>
<td>– cutting deck full of grass</td>
<td>– clean the cutting deck (☞ 5.4.8)</td>
</tr>
<tr>
<td>PROBLEM</td>
<td>LIKELY CAUSE</td>
<td>SOLUTION</td>
</tr>
<tr>
<td>---------</td>
<td>--------------</td>
<td>----------</td>
</tr>
<tr>
<td>12. Unusual vibrations while working</td>
<td>– the blades are imbalanced</td>
<td>– balance or replace any damaged blades (☞ 6.3.1)</td>
</tr>
<tr>
<td></td>
<td>– blades loose</td>
<td>– check that the blades are firmly fitted (☞ 6.3.1)</td>
</tr>
<tr>
<td></td>
<td>– fixing bolts loose</td>
<td>– check and tighten all the fixing bolts of the engine and frame</td>
</tr>
<tr>
<td>13. With the engine running, the machine does not move when the drive pedal is pressed (☞ for hydrostatic drive models)</td>
<td>– disengage lever in position «B» (☞ 4.33)</td>
<td>– put into position «A»</td>
</tr>
</tbody>
</table>

If problems continue after having carried out these operations, contact a Licensed Service Centre.

**WARNING!** Do not take on complicated repair work if you don't have the necessary equipment and the technical knowledge. The guarantee is automatically revoked and the manufacturer declines all responsibility for any repairs which are badly done.
8. ACCESSORIES ON REQUEST

1. FRONT COUNTERWEIGHTS

These improve stability at the front of the machine, particularly when being used on ground which is mostly sloping.

2. TOWING HITCH

For towing a small trailer.

3. CLOTH COVER

Protects the machine from dust when not in use.

4. "CB01" MAINTENANCE BATTERY-CHARGER

This makes it possible to keep the battery in good working order when the machine is in storage, guaranteeing an optimum level of charge and a longer life to the battery.

5. “MULCHING” KIT

It finely chops the grass cuttings and leaves it on the lawn, as an alternative to lateral ejection.
9. SPECIFICATIONS

Electrical system ......................... 12 V
Battery ..................................... 18 Ah

Front tyres .......................... 13 x 5.00-6
Rear tyres ............................ 18 x 8.50-8

Front tyre pressure ................. 1.5 bar
Rear tyre pressure ................... 1.2 bar

Overall weight ...................... from 167 to 172 kg

Inside turning circle (minimum diameter of uncut grass)
left side ................................. 1.6 m

Cutting height ........................ from 3 to 8 cm
Cutting width .......................... 97 cm

➤ For mechanical drive models:
- Forward speed (approximate) at 3000 min.⁻¹:
  - in 1st ................................. 2.2 km/h
  - in 2nd ............................... 3.8 km/h
  - in 3rd ................................. 5.8 km/h
  - in 4th ................................. 6.4 km/h
  - in 5th ................................. 9.7 km/h
  - In Reverse ......................... 2.8 km/h

➤ For hydrostatic drive models:
- Forward speed (at 3000 min.⁻¹):
  - in Forward .................... from 0 to 8.8 km/h
  - in Reverse ....................... from 0 to 3.8 km/h
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ATTENTION! - Avant d’utiliser la machine, lire attentivement le présent manuel.

WARNING! - Read this manual carefully before using the machine.

ACHTUNG! - Bevor man die Maschine verwendet lese man das vorliegende Handbuch sorgfältig durch.

ATTENZIONE: prima di utilizzare la macchina, leggere attentamente il presente manuale.

LET OP! – Vooraleer de machine te gebruiken, lees aandachtig deze handleiding.

• Tout de suite après l’achat, transcrire dans les espaces prévus les données d’identification (3 – 5 – 6) qui sont indiquées sur l’étiquette d’identification de la machine (☛ 2.1 - IDENTIFICATION DE LA MACHINE).

• As soon as you have purchased the machine, write the machine identification data (3 - 5 - 6) found on the identification label in the spaces provided (☛ 2.1 - IDENTIFICATION OF THE MACHINE).

• Tragen Sie sofort nach dem Kauf die Kennzahlen (3 - 5 - 6) in die entsprechenden Felder auf dem Kennungsschild der Maschine ein (☛ 2.1 - KENNZEICHNUNG DER MASCHINE).

• Immediatamente dopo l’acquisto, trascrivere negli appositi spazi i dati di identificazione (3 - 5 - 6) riportati sull’etichetta di identificazione della macchina (☛ 2.1 - IDENTIFICAZIONE DELLA MACCHINA).

• Onmiddellijk na aankoop worden de identificatiegegevens (3 - 5 - 6) genoteerd in de ruimten op het identificatielabel van de machine (☛ 2.1 - IDENTIFICATIE VAN DE MACHINE).

Model: ........................

Year ...... S/N° .................