



# **BLUEBIRD INDUSTRIES**

## **Instructions for use**

-translation of the original instructions-

***TR P 86H – TR P 92H - TR P 102H TWIN***



### **WARNING!**

**Carefully read this manual before using the machine.**

# INTRODUCTION

**Dear customer,**

Thank you for choosing one of our products. We hope that using your new machine will fully satisfy you and meet your expectations.

This manual has been prepared to help you become familiar with the machine and use it safely and efficiently. Please note that it is an integral part of the machine, so it must be kept handy for future reference and given to the buyer in case the machine is sold.

This new lawnmower has been designed and built in compliance with current regulations and is safe and reliable if used for cutting and collecting grass according to the instructions in this manual (**proper use**). If you use the machine in any other way or ignore the instructions regarding maintenance, repair, and safe use, you are making “**improper use**” of it. In this case, the warranty is automatically voided and the manufacturer is not responsible for damage or injury to yourself or third parties.

Since our products are constantly being improved, you may notice slight differences between the machine in use and the descriptions in this manual. We may make changes to the machine without notice and without the obligation to update the manual, although this will not result in changes to the essential safety and operating features. If you have any doubts, do not hesitate to contact your dealer. Enjoy your work!

**AFTER-SALES SERVICE**

This manual provides all the necessary instructions for using the machine and performing basic maintenance.

**All adjustments or maintenance operations not described in this manual must be carried out by the dealer or a specialized service center. Both have the knowledge and equipment necessary to ensure that the work is carried out correctly without compromising the safety of the machine.**

By relying on them, you will maintain the performance of your new purchase and preserve its value over time.

For any replacement, please contact your dealer.



## IMPORTANT

The lawnmower must always be used with the utmost caution. To ensure that safety precautions and operating instructions are always at hand, the machine is fitted with labels with pictograms illustrating the main safety precautions.

Since these labels, in accordance with current safety regulations, are considered an integral part of the machine, the user is required to replace them if they become detached or illegible.

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## 1. SAFETY

### 1.1 HOW TO READ THE MANUAL

Some paragraphs in the manual that contain important information about safety and operation are highlighted as follows.

**NOTE** o **IMPORTANT** They provide details or further information on what has already been said, in order to avoid damage to the machine.



**WARNING!**

**Failure to comply entails the risk of injury to yourself or others.**



**DANGER!**

**Failure to comply entails the risk of serious injury or death to yourself or others.**

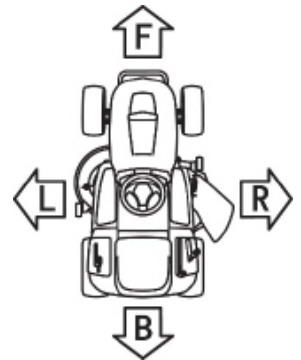
This manual describes different versions of the machine

**NOTE**

The positions on the machine, such as "front", "rear", "left" or "right", refer to the forward driving direction

**IMPORTANT**

For all operations relating to the use and maintenance of the engine not described in this manual, refer to the relevant manuals which are an integral part of all the documentation supplied with the machine.



### 1.2 GENERAL SAFETY RULES



**WARNING!**

**Read carefully before using the machine.**

#### A) TRAINING

1. **Read the instructions carefully.** Familiarize yourself with the controls and the correct use of the equipment.
2. Do not allow children or people who are unfamiliar with these instructions to use the machine. Local regulations may set age limits for the user.
3. **Never mow the grass when there are pets or people (especially children) nearby, nor in the dark.**
4. Be aware that the operator or user is responsible for any accidents or hazards they expose other people or their property to.
5. Do not carry passengers.
6. All drivers must seek and obtain practical and professional training. This training should focus on:
  - the need to pay attention and concentrate when working on machines with an onboard operator;



- the impossibility of using the brake to regain control of a machine with an onboard operator that is sliding down a slope. The main causes of loss of control are:
  - insufficient wheel grip;
  - excessive speed;
  - inadequate braking;
  - the type of machine is not suitable for the function;
  - lack of awareness of the effect of ground conditions, in particular of slopes;
  - incorrect hitching and load distribution

## B) PREPARATION

1. **When mowing the grass, always wear sturdy footwear and long trousers.** Do not use the equipment barefoot or with open sandals.
2. Carefully inspect the area where the equipment will be used and remove all objects that could be thrown by the machine.



### 3. **DANGER! Gasoline is highly flammable:**

- store fuel in specially designed containers;
- refuel only outdoors and do not smoke during refueling;
- **add fuel before starting the engine. Never remove the tank cap or add gasoline when the engine is running or hot;**
- in case of gasoline spillage, do not start the engine and move the machine away from the spill area. Do not create sources of ignition until the gasoline vapors have evaporated;
- replace and securely tighten the tank and fuel container caps.



4. Replace defective mufflers.
5. **Before use**, always inspect the machine to ensure that the blades, blade bolts, and cutting assembly are not worn or damaged. Replace worn or damaged blades and bolts as a set to ensure balance
6. In multi-blade machines, be aware that the rotation of one blade may cause the rotation of other blades.

**C) OPERATION**

- 1) Do not start the engine in a confined space where dangerous carbon monoxide fumes can accumulate.
- 2) Mow the grass only in daylight or with good artificial lighting.
- 3) Before starting the engine, disengage the blades and put in neutral.
- 4) Do not use the machine on longitudinal slopes greater than 15° (27%). Do not use the machine on lateral slopes greater than 10° (18%).
- 5) Be aware that there is no "safe" slope. Handling on grassy slopes requires particular attention. To avoid overturning:
  - do not stop or start suddenly when going uphill or downhill;
  - engage the gear slowly and always keep it engaged, especially when going downhill;
  - the speed of the machine must be kept low on slopes and in tight curves;
  - pay attention to bumps, hollows, and other hidden hazards;
  - never mow the grass across the slope.
- 6) Pay attention when towing loads or using heavy equipment:
  - use only approved towing hooks;
  - limit loads to those that can be safely controlled;
  - do not make sharp turns. Pay attention when reversing;
  - use counterweights or wheel weights when indicated in the operating instructions.
- 7) Stop the blades before crossing surfaces other than grass.
- 8) Never use the machine with damaged guards or without the safety devices in place.
- 9) Do not modify the engine governor settings and do not increase the engine speed. Operating the engine at excessive speed may increase the risk of personal injury.
- 10) Before leaving the operator's seat:
  - disengage the blades and lower the attachment points;
  - put in neutral and engage the parking brake;
  - turn off the engine and remove the ignition key.
- 11) Disengage the blades, turn off the engine, and remove the ignition key:
  - before removing obstructions or unclogging the collector channel;
  - before cleaning, checking, or performing maintenance on the machine;
  - after hitting a foreign object. Before restarting and operating the machine, check for damage and carry out repairs if necessary;
  - if the machine starts to vibrate abnormally (immediately check the causes)
- 12) Disengage the blades when transporting them or if they are not being used.
- 13) Stop the engine and disengage the blades:
  - before refueling;
  - before adjusting the height, unless the adjustment can be made from the operator's position.
- 14) Reduce acceleration in case of engine misalignment. If the engine is equipped with a shut-off valve, cut off the fuel supply at the end of mowing.
- 15) Pay attention to traffic when crossing or near roads.
- 16) Never direct the discharge of material towards bystanders and do not allow anyone to approach the machine while it is operating.
- 17) Use original spare parts. Original spare parts and accessories have been specifically designed for this machine. The use of non-original spare parts and accessories puts the safety of the person and/or the machine at risk.
- 18) Do not mow during thunderstorms. No protection against lightning.
- 19) Prolonged exposure to noise can cause permanent hearing damage. Therefore, always use approved hearing protection and reduce working hours.



20) Do not use the lawn tractor and/or any accessories connected to it in case of fatigue, illness, or after consuming alcohol, drugs, or medicines that impair reaction time and/or concentration.

21) The lawnmower must not be used without the entire grass container or the automatic closing discharge opening guard in place.

22) While working, wear sturdy shoes with non-slip soles and protective clothing. Do not use the equipment if you are barefoot or wearing sandals.

23) To reduce the impact of noise and vibration emissions, limit operating time, use low-vibration and low-noise operating modes, and wear personal protective equipment.

Consider the following points to minimize the risks of exposure to vibration and noise:

- Use the machine only as intended by its design and these instructions.
- Ensure that the machine is in good condition and well maintained.
- Use the correct accessories for the machine and ensure they are in good condition.
- Maintain a firm grip on the steering wheel.
- Keep the machine in compliance with these instructions and keep it well lubricated (where appropriate).
- Plan the work schedule to spread the use of high-vibration tools over a longer period of time.
- Prolonged use of the machine exposes the user to vibrations that can cause a range of conditions collectively known as hand-arm vibration syndrome (HAVS), e.g. fingers turning white; as well as specific diseases such as carpal tunnel syndrome. To reduce this risk while using the machine, always wear protective gloves and keep your hands warm.

#### **IMPORTANT**

Anyone using the ride-on mower must first be familiar with the instructions in this manual and fully familiarize themselves with the controls to ensure correct and safe use of the machine.

### **D) MAINTENANCE AND STORAGE**

- 1) Keep all nuts, bolts, and screws tight to ensure the equipment is in optimal condition.
- 2) Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark.
- 3) Allow the engine to cool before storing the machine in an enclosed space.
- 4) To reduce the risk of fire, keep grass, leaves, or excessive grease away from the engine, muffler, battery compartment, and gasoline storage area.
- 5) Frequently check that the grass catcher is not worn or deteriorated.
- 6) Replace worn or damaged parts for safety reasons.
- 7) If it is necessary to empty the fuel tank, do so outdoors.
- 8) In multi-blade machines, keep in mind that the rotation of one blade can cause the rotation of other blades.
- 9) If the machine is to be parked, stored, or left unattended, lower the cutting tools unless a positive mechanical lock is used.

#### **IMPORTANT**

The blades are sharp, there is a risk of serious injury! Before performing any inspection, cleaning, or repair of the cutting parts, turn off the engine and remove the ignition key. Afterwards, disconnect the spark plug wire and keep the cap away from the spark plug to prevent accidental starting.

### 1.3 SAFETY LABELS

The machine must be used with care. For this reason, labels with illustrations have been placed on the machine to remind you of the main precautions to take during use.

These labels are to be considered an integral part of the machine.

If a label comes off or becomes illegible, contact your dealer to replace it. The meaning of each label is explained below.



**Warning:**  
Read the instructions before using the machine.



**Danger! Dismemberment:**  
Ensure that children always stay away from the machine when the engine is running.



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



**Danger! Risk of burns**  
Wait for the engine to cool completely before making any adjustments or maintenance to it.



**Risk of injury.**  
Moving blades, the blade will continue to rotate for some time after the engine is turned off or the blade control is disabled.



**Warning:**  
Do not step on the body or the discharge guard.



**Danger! Ejected objects:**  
Do not use without the discharge guard or the grass catcher in position



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



**Danger! Warning:**  
KEEP HANDS AND FEET AWAY FROM THE BLADE.



**Warning!**  
Never use pressure washers to clean the transmission system.

**Danger!**

**Risk of serious injury.**

Keep hands and feet away from the blade and all moving parts.



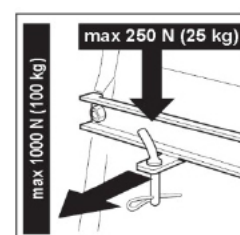
**Danger! Risk of overturning in case of steep slopes**

Do not use the machine on longitudinal slopes greater than 15° (27%).

Do not use the machine on lateral slopes greater than 10° (18%).

### 1.4 TOWING RULES

On request, a kit for towing a small trailer is available. This accessory must be installed following the provided instructions. When using the towing kit, do not exceed the recommended loads indicated on the label and follow the safety instructions.

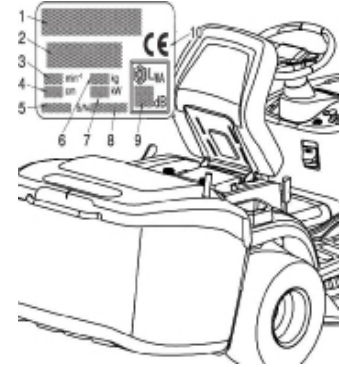


## 2. IDENTIFICATION OF THE MACHINE AND COMPONENTS

### 2.1 IDENTIFICATION OF THE MACHINE

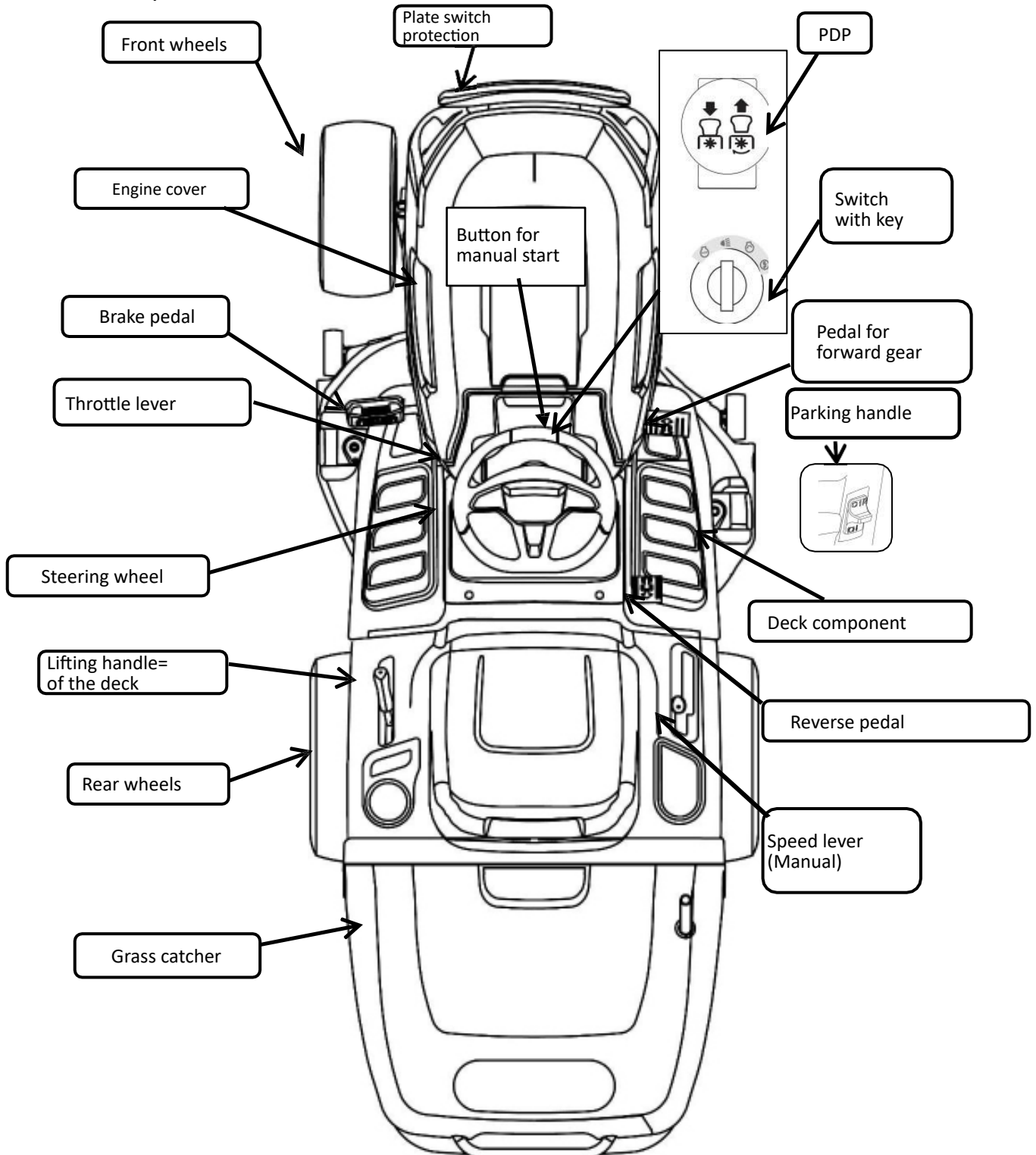
The label located on the seat bracket shows the essential data of each machine

1. Name and address of the manufacturer.
2. Name of the machine
3. Type of machine
4. Cutting width
5. Machine mass
6. Rated engine power
7. Serial number
8. Year of production
9. Sound power level according to Directive 2000/14/EC
10. Conformity mark according to Directive 2006/42/EC



### 2.2 IDENTIFICATION OF MAIN COMPONENTS

The main components of the machine are as follows:



### 3. UNPACKING AND ASSEMBLY

For storage and transport reasons, some components of the machine are not installed at the factory and must be assembled after unpacking. Follow the instructions below

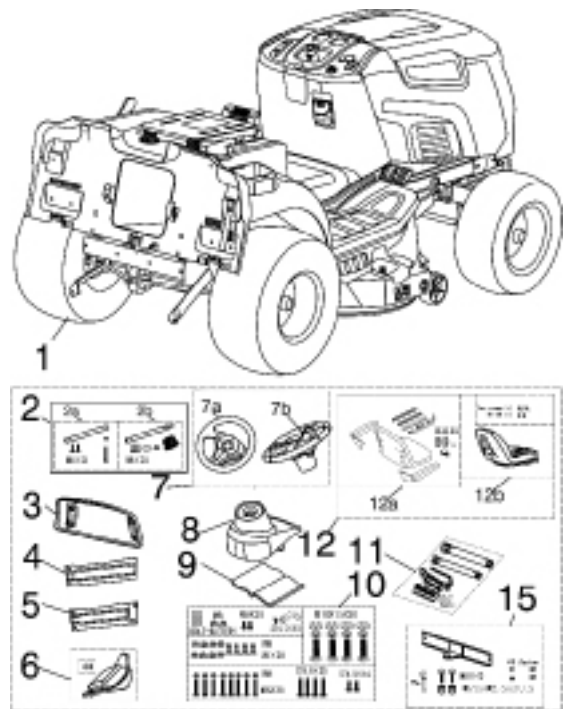
#### IMPORTANT

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

#### 3.1 UNPACKING

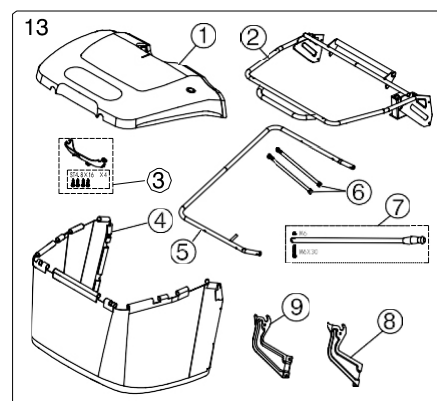
When unpacking the machine, be careful to collect all individual parts and fittings and do not damage the cutting deck when removing the machine from the pallet.

1. Machine body;
2. Steering shaft;
3. Bumper,
4. Left bumper bracket;
5. Right bumper bracket;
6. Steering wheel cover;
7. Steering wheel;
8. Steering wheel support;
9. Instruction manual;
10. Nuts, bolts, washers, bushings;
11. Tools and starter key;
12. Seat;
13. Grass catcher components;
14. Rear deflector plate.
15. Tow bar (if applicable).



#### 13. Grass catcher components

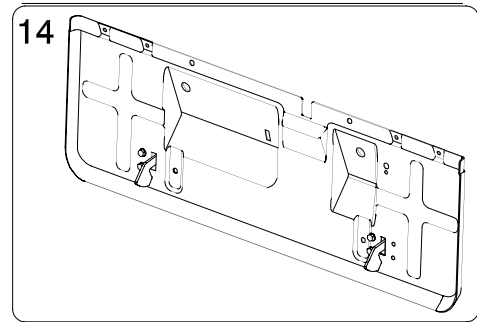
- ① Cover;
- ② Basket frame;
- ③ Layering panel;
- ④ Grass catcher bag;
- ⑤ Front bracket;
- ⑥ Side support tube;
- ⑦ Tipping lever;
- ⑧ Nuts and bolts;
- ⑨ Swivel bracket (R);
- ⑩ Swivel bracket (L)



## 14. Rear deflector plate.

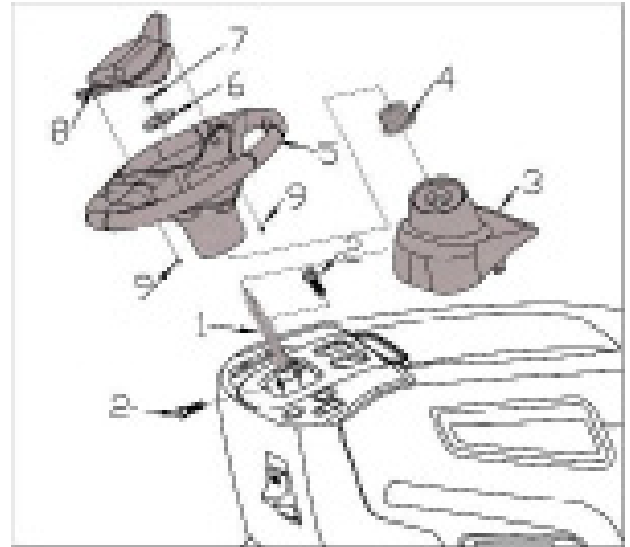
**NOTE**

To avoid damage to the cutting deck, raise it to the maximum height and take great care when removing the machine from the pallet.

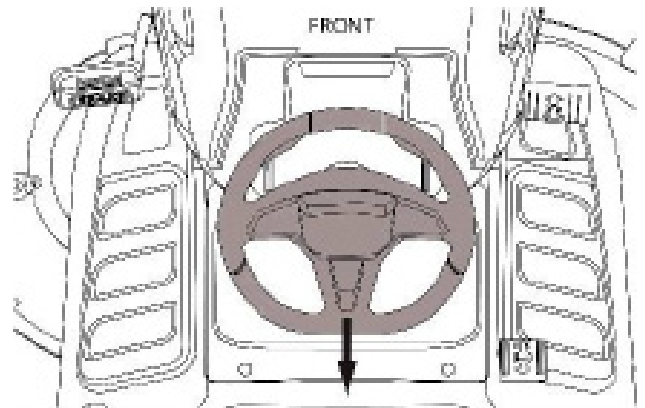
**3.2 STEERING WHEEL ASSEMBLY**

Place the machine on a flat surface and straighten the front wheels.

- Mount the shaft (1) onto the joints and tighten the M8x25 screw (2). (Use the 5 mm hex key among the supplied tools).
- Install the steering shaft cover (3).
- Insert the splined hub (4) onto the shaft (1), mount the steering wheel (5), the spacer (6), and tighten the M8 nut (7). (Use the 13-15 open-end wrench among the supplied tools).
- Insert the steering wheel cover (8) into the steering wheel and tighten the two screws (9). (Use the screwdriver

**NOTE**

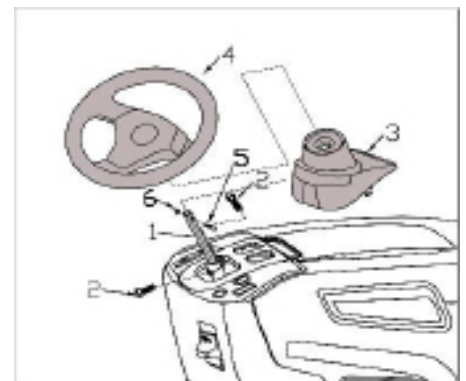
Pay attention to the direction when installing the steering wheel.

**Only for model TR P 86H**

Place the machine on a flat surface and straighten the front wheels.

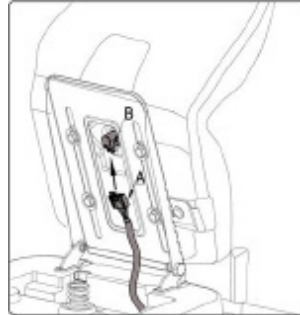
Mount the shaft (1) onto the joints and tighten the M8x25 screw (2). (Use the 5 mm hex key in the accessory tools.)

- Install the steering shaft cover (3).
- Install the steering wheel (4) onto the steering shaft, insert the screw (5), and tighten it with the nut (6).



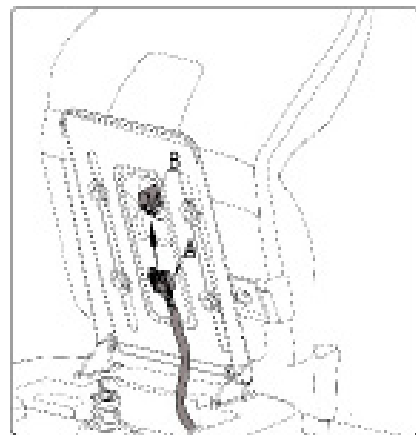
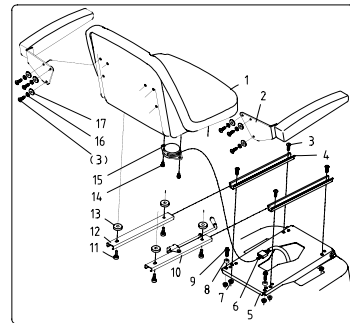
### 3.3 SEAT ASSEMBLY

1. Loosen the 2 M8 nuts and the 2 screws from the seat bracket. (Use the 13-15 open-end wrench in the accessory tools.)
2. Mount the seat onto the seat bracket using the 2 released M8 nuts and the 2 screws.
3. Connect wiring A and switch B under the seat.



#### Only for Luxury seat (if applicable):

1. Remove the sliding rails (No.4, No.10, No.11) from the packaging box and assemble them with the washers  $\phi 32 \times \phi 10.5 \times 8$  (No.13) and the seat (No.1) using the M8x20 screws (No.11).
2. Install the seat switch components (No. 15) using the M6x16 screws (No. 14).
3. Remove the screws (No.9) and spacers (No.8) pre-installed from the plate (No. 5), move the sliding rail all the way forward, and fasten the front part of the seat sliding rail assembly mounted in step 1 to the sliding plate (No. 5) using the M8x16 screws (No. 3) and M8 nuts (No. 7).
4. Move the sliding rail forward and fasten the rear part of the seat sliding assembly to the sliding plate (No. 5) together with the M8x16 screws (No. 3) and M8 nuts (No. 7).
5. Install the bolt (No. 9) removed in step 2.
6. Install the armrest (No. 2) on the seat backrest using the screws, spring washers, and flat washers (No. 3, No. 16, No. 17).
7. Connect cable A and switch B under the seat.



### 3.4 BATTERY CONNECTION



**The electrolyte solution is a sulfuric acid solution.**  
**Danger: Sulfuric acid is toxic**



**Danger: Sulfuric acid is corrosive and can cause blindness or severe burns.**



**Danger: Keep out of reach of children.**



For EU countries only  
 Never dispose of power tools with household waste.

In compliance with European Directive 2012/19/EU on old electrical and electronic equipment and its integration into national legislation, old power tools must be separated from other waste and disposed of in an environmentally friendly manner, for example by taking them to a recycling center.

Alternative recycling to the return request:

If you wish to dispose of the equipment, as an alternative to returning it to the manufacturer, the owner must ensure that it is disposed of properly. The equipment can be returned to an appropriate collection point, which will dispose of it in accordance with national recycling and waste disposal regulations. This does not apply to accessories or aids without electrical components supplied with the equipment to be disposed of.

Reprinting or reproduction by any other means, in whole or in part, of the documentation and documents accompanying the products is permitted only with the explicit consent of the manufacturer.

#### Subject to technical changes



1) Insert the battery into its compartment.

**IMPORTANT**

#### Position the battery according to the polarities (+) and (—)

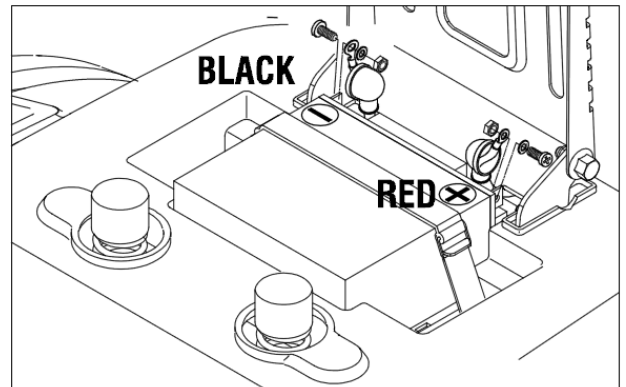
2) Connect the battery connectors to the machine's connection cables and tighten the two screws. Then cover the 2 wires with the protective cap. (Use the 8-10 wrench and the Phillips screwdriver among the supplied tools)

3) Secure the battery with the rubber strap.

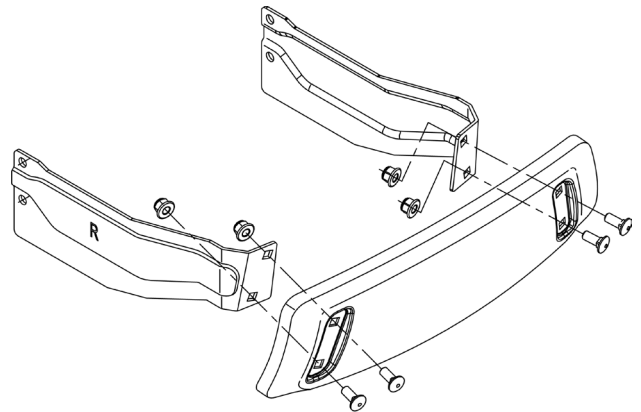
**NOTE**

This machine uses a 12V 18Ah battery  
 The battery is fully charged before leaving the factory. If the battery is not sufficiently charged, use a 12V 1A power supply to charge it.

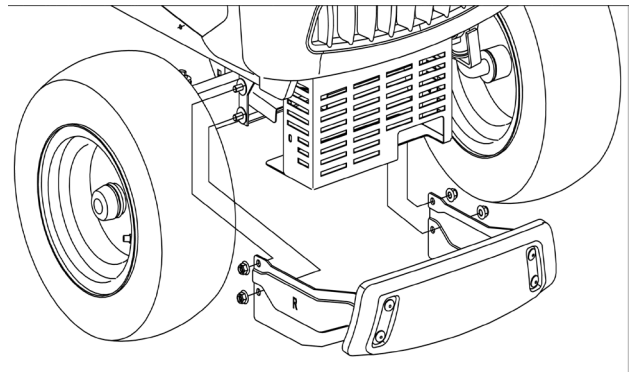
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**3.5 FRONT BUMPER ASSEMBLY**

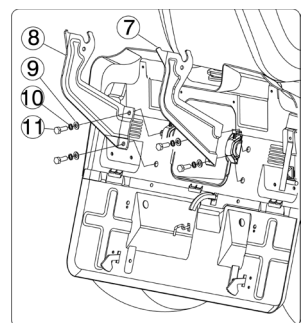
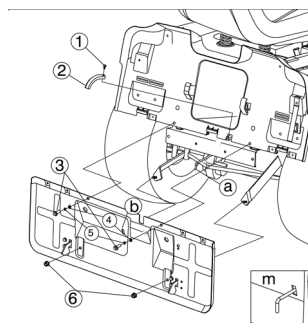
a. Mount the left and right brackets on the bumper, using 4 nuts and 4 screws. (Use the 13-15 wrench among the supplied tools).



b. Mount the front bumper on the lower part of the frame using the 4 nuts and 4 screws. (Use the 13-15 wrench among the supplied tools).

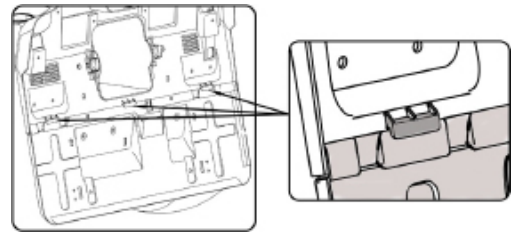
**3.6 ASSEMBLY OF THE REAR DEFLECTOR PLATE**

1. Mount the hook (2) using the screws (1)
2. Mount the lever (a) through the hole (b); (see figure m)
3. Mount the rear deflector on the frame using the screws (3) (M8x20 screws tightened to 15-20Nm), flat washers (4), spring washers (5);



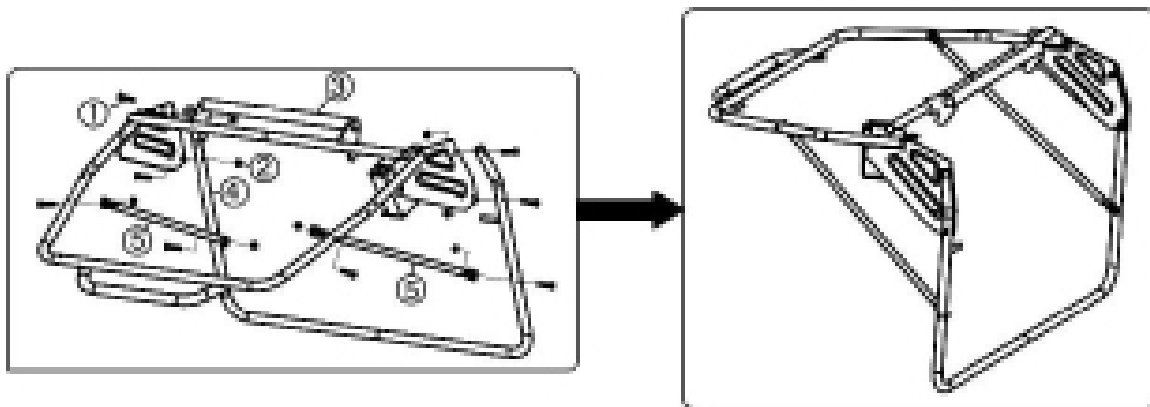
4. Mount the rear deflector on the right & left plate using the nuts (6) (M8);
5. Mount the brackets (7,8) using the bolts (11) and washers (9,10).

**Note: when installing the rear deflector plate, it is necessary to insert the plate into the 3 convex parts of the plastic deflector.**



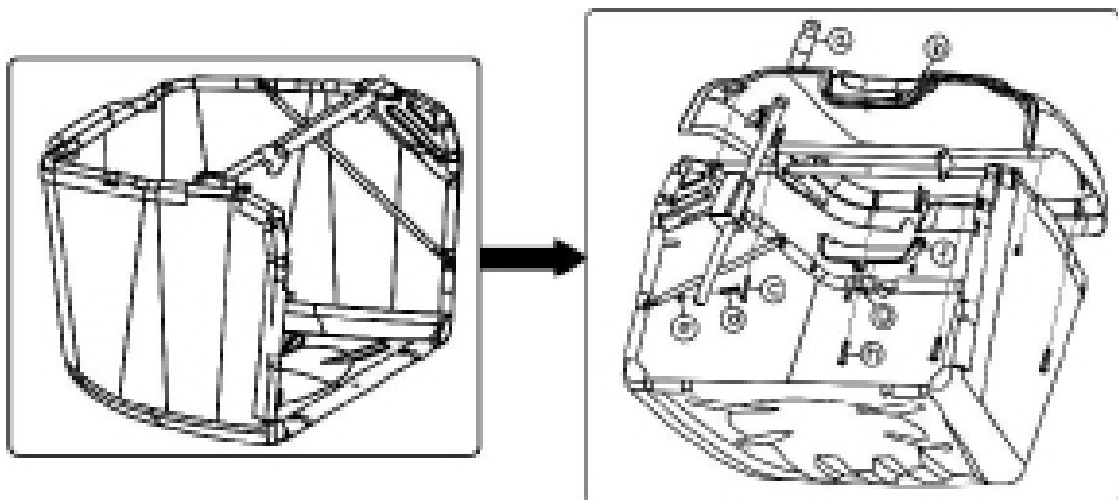
### 3.7 ASSEMBLY OF THE GRASS CATCHER

1. Mount the front bracket (4) on the upper frame (3) using four screws (1) (M6-35) and nuts (2);
2. Mount the side tube (5) on the upper frame (3) and on the front bracket (4) using four screws (1) (M6-35) and nuts (2);

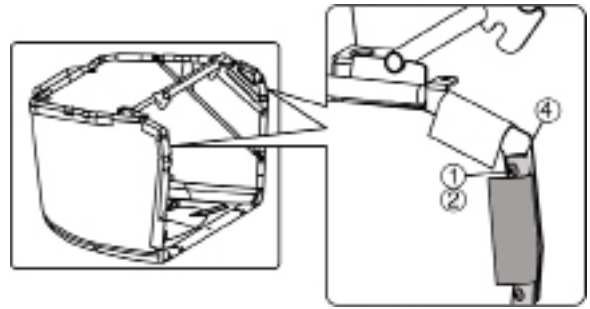


Note: During installation, the side support tubes (5) must be mounted on the inner side of the front bracket (4) and the upper bracket (3).

3. Mount the grass catcher bag (6) on the frame component;
4. Mount the cover (8) on the frame component using four screws (10) ST 4.8x35 and two screws (13) ST 4.8x16, mount the plate (9) using four screws (13) ST 4.8x16;
5. Insert the tipping lever (7) into the grass catcher cover panel and insert the nut (12) and bolt (11).



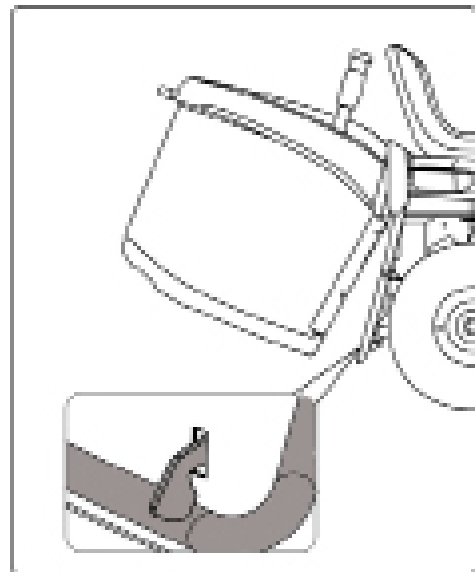
Note: after hooking the edges of the grass catcher to the support tube (4), tighten the screws (1) and nuts (2).



### 3.8 Assembly of the discharge guard (grass catcher)

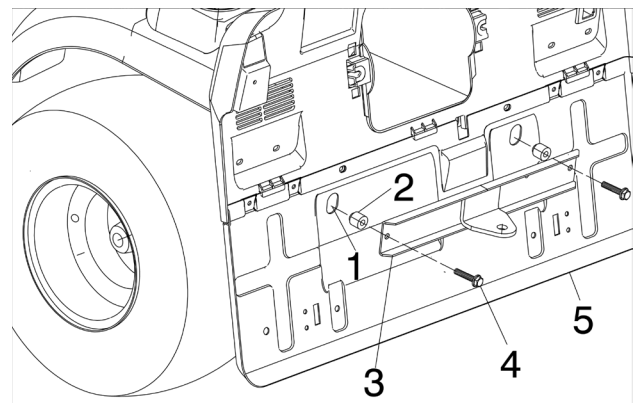


- 1) Never use the machine without having installed the guards!
- 2) Attach the grass catcher to the brackets and align it with the rear plate, so that the two reference marks coincide.
- 3) Make sure that the lower tube of the grass catcher opening is fixed to the stop tooth.

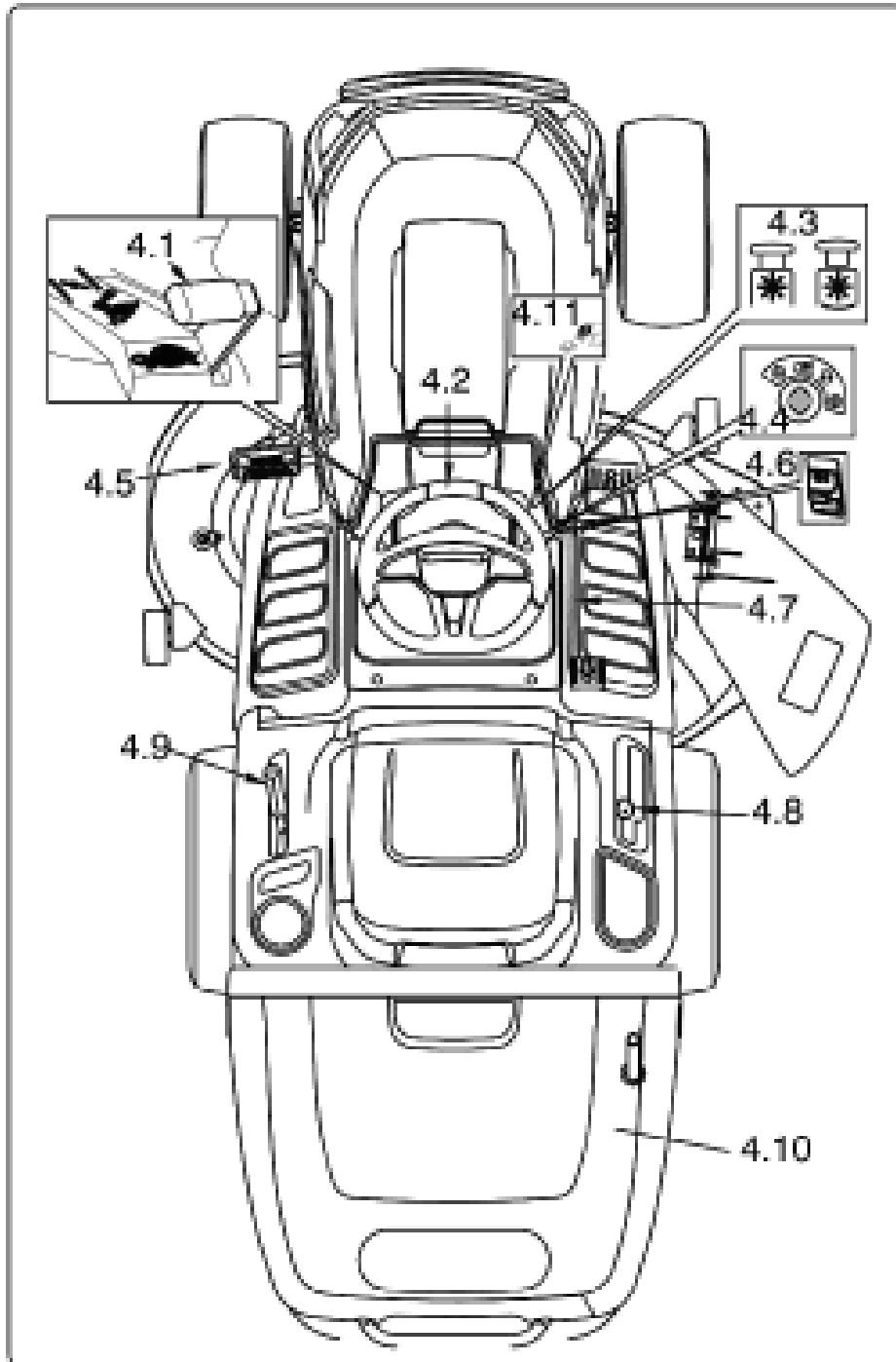


### 3.9 Assembly of the towing kit (if applicable)

Insert the M8x40 bolts (4) through the towing plate (3), the bushing (2), and the holes (1) of the rear deflector (5). Then, use a wrench (8-10) to fasten them to the tractor frame.



## 4. CONTROLS AND INSTRUMENTS



### 4.1 THROTTLE LEVER

Adjust the engine speed. The positions are indicated on a label showing the following symbols:



“CHOKE” (STARTER) cold start



“SLOW” (LOW) for the engine idle speed



“FAST” (HIGH) for the engine maximum speed

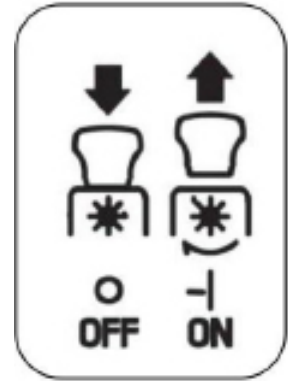
- The “CHOKE” position enriches the mixture and should only be used for the time necessary for cold starting.
- When moving from one area to another, place the lever in a position between “SLOW” and “FAST”.
- When mowing the grass, switch to “FAST”.

#### 4.2 STEERING WHEEL

Turns the front wheels

#### 4.3 BLADE START/STOP KNOB

The blade start/stop knob is located on the right side of the console, in front of the key switch. The blade start/stop knob operates the electric clutch. Pull the knob upwards to engage the blades or push it downwards to disengage them.



#### 4.4 KEY IGNITION SWITCH

This key control has four positions:



“OFF”: turns off the entire system.



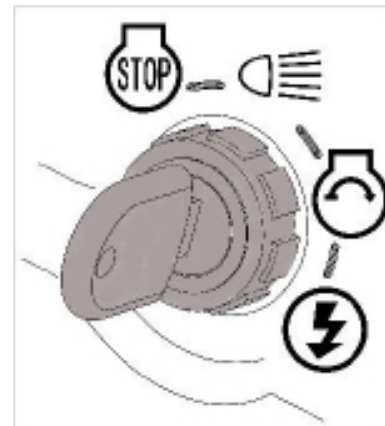
“ON”: activates all components.



“START” connects the starter motor. If you release the key on “START”, it automatically returns to “ON”.



When the switch is in position, the key supplies power to the front lights.



#### 4.5 Brake pedal

The brake pedal is located on the front left side of the platform. The brake pedal can be used for sudden stops or to set the parking brake.



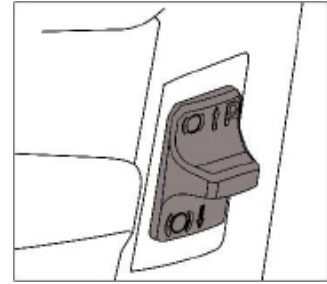
#### NOTE

When the machine is moving, keep your foot away from the pedal.

#### 4.6 PARKING BRAKE LEVER

With the machine stopped:

- 1) Hold down the brake pedal;
- 2) Lift and keep the parking brake lever raised;
- 3) Release the brake pedal.



In this way, the rear wheels remain braked. To release the parking brake, press the brake pedal fully (the parking brake lever is automatically released and returns to the lowered position).

##### NOTE

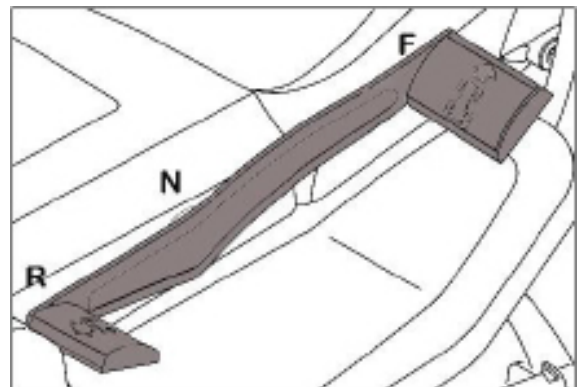
The engine should only start if:

- the operator is in position;
- parking brake engaged (only for mechanical models);
- the drive and cutting devices are disengaged

#### 4.7 GEAR ENGAGEMENT PEDAL (for models with hydrostatic transmission)

This pedal engages the transmission to the wheels and modulates the machine's forward and reverse speeds.

- To engage forward gear, press towards "F" with the tip of your foot. By increasing pressure on the pedal, the machine's speed increases.
- Reverse gear is engaged by pressing the pedal with your heel towards "R".
- If released, the pedal automatically returns to neutral "N".



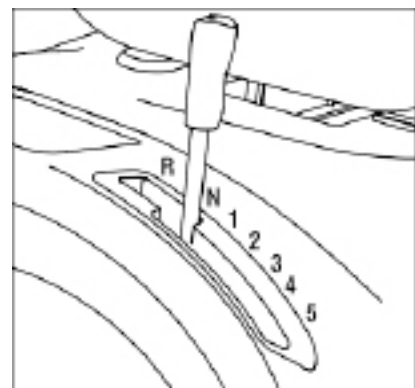
##### WARNING!

Reverse gear should only be engaged when the machine is stationary.

**NOTE** The parking brake must be released.

#### 4.8 SPEED SHIFT LEVER (for models with manual transmission)

This lever has seven positions for the 5 forward speeds, the neutral position "N" and reverse "R".



When moving the gear shift lever, press the brake pedal to disengage the drive belt and move the lever as indicated on the label. Never move the lever directly from forward to reverse or from reverse to forward before the machine has come to a complete stop.



**WARNING!**

Shift to reverse only when the machine has stopped moving.

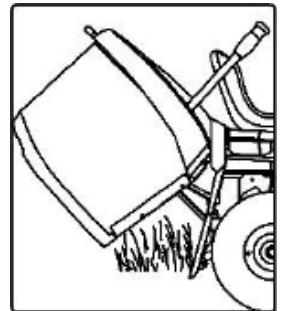
#### 4.9 CUTTING HEIGHT ADJUSTMENT LEVER



Raises or lowers the blade deck, thus adjusting the cutting height of the grass. This lever has seven positions (indicated from "1" to "7" on the label), corresponding to various heights between 30 and 90 mm.

#### 4.10 GRASS CATCHER

This tipping lever tilts and empties the grass catcher. This means less work for the operator.



#### 4.11 Reverse Operation Button (RMO)

The reverse operation knob is located on the right side console to the left of the blade start/stop knob. The blades stop when moving in reverse. To keep the blades operating when moving in reverse, press the RMO button at all times.

NOTE: Mowing in reverse is not recommended.

### 5. HOW TO USE THE MACHINE

#### 5.1 SAFETY RECOMMENDATIONS



**DANGER!**

The machine must be used only for the purpose for which it was designed (grass cutting). Do not tamper with or remove the safety devices installed on the machine.

**KEEP IN MIND THAT THE USER IS ALWAYS RESPONSIBLE FOR DAMAGE AND INJURY TO THIRD PARTIES.**

Before using the machine:

- read the general safety rules, paying particular attention to driving and mowing on slopes;
- carefully read the operating instructions, make sure you are familiar with the controls and know how to quickly stop the blades and the engine;
- never put your hands or feet near or under rotating parts and always keep away from the discharge opening.

Do not use the machine in poor health conditions or under the influence of medication or other substances that may reduce reflexes and concentration. It is the user's responsibility to assess the potential risk of the area to be worked on and to take all necessary precautions to ensure their own safety and that of others, especially on slopes or rough, slippery, and unstable terrain.

Do not leave the machine on tall grass with the engine running to avoid the risk of starting a fire.



Do not use the machine on longitudinal slopes greater than 15° (27%); do not use the machine on lateral slopes greater than 10° (18%). If you plan to use the machine mainly on sloping ground, install counterweights under the front axle. These improve front stability and reduce the risk of overturning.

**IMPORTANT** All references to control positions are described in section 4.

## 5.2 REASONS WHY SAFETY DEVICES ARE ACTIVATED

The safety devices operate in two ways:

- prevent the engine from starting if all safety requirements are not met;
- stop the engine if even one of the safety requirements is not satisfied.

a) To start the engine, it is necessary that:

- the blades are not engaged;
- the parking brake is engaged and the transmission is disengaged;
- the operator is seated on the seat;

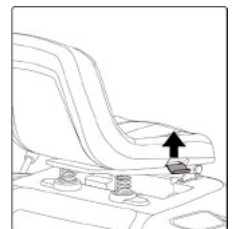
b) The engine shuts off when: - the operator gets up from the seat during mowing or driving;

## 5.3 INSTRUCTIONS BEFORE STARTING WORK

Before starting to mow, several checks and operations must be carried out to ensure efficient and completely safe work.

### 5.3.1 Seat Adjustment

To adjust the seat position, lift the seat adjustment lever upwards, slide the seat forward or backward to the desired position; then release the adjustment lever. Make sure the seat is locked in position before using the machine.



#### For Luxury seats only.

To adjust the seat position, pull up and lock the seat adjustment lever. Slide the seat forward or backward to the desired position, then release the adjustment lever. Make sure the seat is locked in position before operating the tractor.



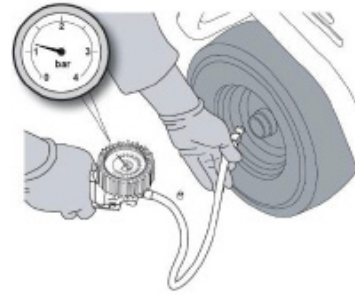
### 5.3.2 Tire Pressure

The correct tire pressure is the main condition to ensure the cutting deck is level and mowing is even. Unscrew the valve caps and connect a compressed air hose with a pressure gauge to the valves.

The reference pressures are:

FRONT 1.0 bar (15 x 6.0-6)

REAR 1.2 bar (18 x 8.5-8)



### 5.3.3 Fuel and Oil Check

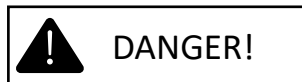
#### **WARNING!**

**THE OIL WAS REMOVED BEFORE SHIPPING.**

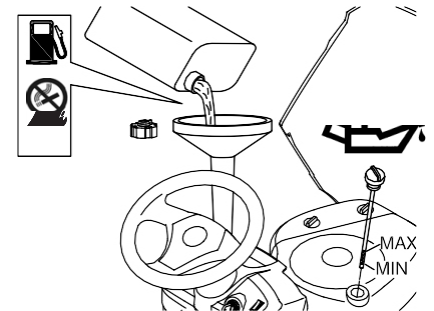
**FAILURE TO FILL THE SUMP WITH OIL BEFORE STARTING THE ENGINE WILL CAUSE PERMANENT DAMAGE AND VOID THE ENGINE WARRANTY.**

**[NOTE]** The engine manual specifies the type of oil and fuel to use.

With the engine off, check the oil level. According to the instructions in the engine manual, the oil level must be between the MIN and MAX marks on the dipstick. Fill the tank using a funnel, without filling it completely. The tank capacity is about 7.5 liters.



Refilling must be done in an open or well-ventilated area and with the engine off. Always keep in mind that gasoline fumes are flammable. **DO NOT USE AN OPEN FLAME TO INSPECT THE INSIDE OF THE TANK AND DO NOT SMOKE DURING REFUELING**



#### **[IMPORTANT]**

Do not let gasoline drip onto plastic parts to avoid damaging them. In case of spills or accidental leaks, rinse immediately with water. The warranty does not cover damage to the plastic parts of the body or engine caused by gasoline.

### 5.3.4 Checking the Safety and Efficiency of the Machine

1. Check that the safety devices work as described.
2. Check that the brake is working perfectly.
3. Do not start mowing if the blades vibrate or if you are not sure they are sharp enough.

Always keep in mind that:

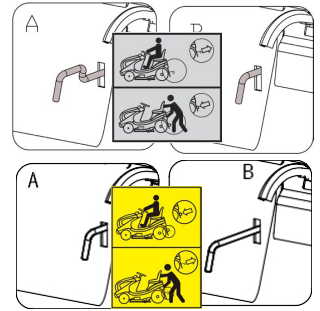
- A poorly sharpened blade pulls the grass and causes the lawn to yellow.
- A loose blade causes unwanted vibrations and can be dangerous.



Do not use the machine if you are not sure it works safely and efficiently. If in doubt, contact your dealer immediately to carry out the necessary checks and repairs.

### 5.3.5 Hydrostatic Transmission Release Lever

This lever has two positions, as indicated on the label: “A” = Transmission engaged: for all types of use, in motion and during cutting; “B” = Transmission disengaged: this makes it much easier to move the machine by hand, with the engine. Depending on the different hydrostatic transmission, there are two types of operating methods, which must be used according to the label attached to the machine.



## 5.4 USING THE MACHINE

### 5.4.1 Starting

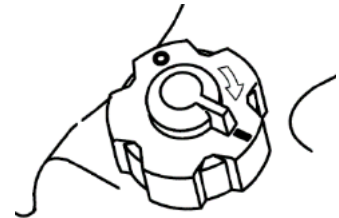


**DANGER!**

The engine must be started in an open or well-ventilated area! ALWAYS KEEP IN MIND THAT EXHAUST GASES ARE TOXIC!

To start the engine:

- open the fuel tap (set it to “I”);
- close the engine cover;
- raise the cutting deck as high as possible.
- disengage the blades;
- put the gear lever in neutral;
- engage the parking brake;
- in case of cold starting, move the throttle to the “CHOKE” position indicated on the plate;
- if the engine is already warm, set the lever between “SLOW” and “FAST”;
- insert the ignition key and turn it to “ON” to create an electrical contact, then turn it to “START” to start the engine;
- release the key once the engine has started.



Once the engine has started, move the throttle to “SLOW”.

**IMPORTANT**

The choke must be closed as soon as the engine is running smoothly. Using it when the engine is hot can foul the spark plugs and cause irregular engine operation.

**NOTE**

If you have trouble starting the engine, avoid insisting as there is a risk of draining the battery and flooding the engine. Turn the key to “OFF”, wait a few seconds and repeat the operation. If the malfunction persists, consult the engine manual.

**IMPORTANT**

Always keep in mind that the safety devices prevent the engine from starting if the safety requirements are not met. In these cases, once the safety conditions have been restored, it is necessary to turn the key to “OFF” before restarting the engine.

### 5.4.2 Starting and moving without mowing



**DANGER!**

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

When moving the machine, the blades must be disengaged and the cutting deck must be raised as high as possible (position “7”). Set the throttle between “SLOW” and “FAST” and engage first gear with the gear lever. Hold down the brake/clutch pedal and release the parking brake, then slowly release the brake/clutch pedal to start moving the machine forward.



**WARNING!**

The brake pedal must be released gradually, as sudden use could cause the vehicle to overturn and the driver to lose control.

Gradually reach the desired speed using the throttle and the gear lever. To change gear, the clutch must always be used by pressing the brake pedal.

### 5.4.3 Braking

First, slow down by reducing the engine speed, then press the pedal down to further reduce speed until the machine stops.

### 5.4.4 Reverse

**IMPORTANT**

Reverse gear must only be engaged once the machine has come to a stop.

Press the brake pedal until the machine stops, then engage reverse by moving the lever sideways to “R”. **(for models with manual transmission)** Gradually release the brake pedal to operate the clutch and start moving in reverse. When the machine is stationary, engage reverse by pressing the engagement pedal of the transmission in the “R” direction. **(for models with hydrostatic transmission)**

### 5.4.5 Grass cutting

To start mowing:

- set the throttle to “FAST”;
- raise the cutting deck as high as possible;
- engage the blades;
- start moving forward on the grass very slowly and with maximum caution, as already described;
- adjust the cutting height and speed according to the lawn conditions (height, density, and moisture of the grass).



**WARNING!**

When mowing on sloping ground, reduce speed to ensure safety conditions.

In any condition, always reduce speed if you notice a decrease in engine speed.

- if you go too fast for the amount of grass to be cut, you will not be able to mow properly.  
When you need to overcome an obstacle, disengage the blades and raise the cutting deck as much as possible.

**IMPORTANT**

This machine has not been approved for mowing in reverse. The blades stop when the machine goes in reverse by pressing the drive pedal towards "R". By pressing the override button (to the left of the steering wheel), it is possible to keep the blades rotating.

#### 5.4.6 Emptying the grass catcher

**NOTE**

This operation can only be carried out with the blades disengaged, otherwise the engine will shut off.

Do not let the grass catcher fill up too much to avoid blocking the collection channel.

When the grass catcher is full, an acoustic signal is emitted. At this point:

- disengage the blades and the sound will stop;
- reduce the engine speed;
- stop moving forward;
- engage the parking brake on a slope;
- pull out the tipping lever and lift the grass catcher to empty it;
- close the grass catcher so that it hooks onto the stop tooth.

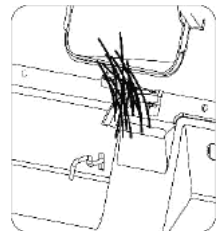
**NOTE**

Sometimes the acoustic signal may sound when the blade is engaged even if the grass catcher has been emptied.

This may be due to the presence of grass residues on the microswitch sensor.

To stop the signal, disengage the blades and re-engage them immediately.

If the acoustic signal does not stop, turn off the engine, remove the grass catcher and remove any accumulated grass residues from the sensor.



#### 5.4.7 Unblocking the Collection Channel

Cutting very tall or wet grass, especially at excessive speed, can clog the collection channel.

In this case, proceed as follows:

- stop the machine, disengage the blades and turn off the engine;
- remove the grass catcher;
- remove the cut grass by taking it from the outlet of the collection channel.

**WARNING!**

This operation must only be carried out with the engine off.

#### 5.4.8 End of mowing

At the end of mowing, disengage the blades, reduce the engine speed and move the machine with the cutting deck raised as much as possible.

### 5.4.9 End of work

Stop the machine, move the throttle to "SLOW" and turn off the engine by turning the key to "OFF".

When the engine has stopped, close the fuel tap.



**WARNING!**

To avoid backfire, set the throttle to "SLOW" for 20 seconds before stopping the engine.



**WARNING!**

Always remove the ignition key before leaving the machine unattended!

**IMPORTANT**

To avoid discharging the battery, do not leave the key in the "ON" position when the engine is off.

### 5.4.10 Cleaning the machine

After use, clean the outside of the machine, empty the grass catcher or discharge guard and shake it to remove grass and other debris. Clean the plastic parts of the bodywork with a damp sponge using water and detergent, taking care not to wet the engine, electrical parts or the electronic board located under the dashboard.

**IMPORTANT**

Never use nozzles or aggressive detergents to clean the bodywork or the engine!

To wash the inside of the cutting deck and the collection channel, the machine must be on stable ground with:

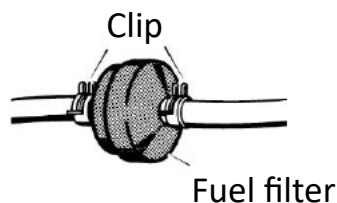
- the grass catcher or discharge guard fitted;
- the operator seated;
- the engine running;
- the gear in neutral;
- the blades engaged.



Connect a water hose to all the pipe fittings, one at a time, and let water flow through each of them for a few minutes, with the blades moving. During washing, the cutting deck must be lowered. Remove the grass catcher, empty and rinse it, then place it in a position where it can dry quickly.

### 5.4.11 Storage and inactivity for long periods

If you plan not to use the machine for a long period (more than 1 month), disconnect the battery cables and follow the instructions in the engine manual. Empty the fuel tank by disconnecting the hose located at the fuel filter inlet and follow the instructions in the engine manual



**WARNING!**

Carefully remove any dry grass that may have accumulated around the engine or the muffler to prevent it from catching fire at the next use of the machine!

Store the machine in a dry and sheltered place, preferably covered with a cloth.

**IMPORTANT**

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

At the next use of the machine, check that there are no fuel leaks from the pipes, the fuel tap or the carburetor.

#### 5.4.12 Summary of the main operations to follow during the use of the machine

| For...                         | It is necessary to...                                                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Start the engine               | Open the fuel tap, make sure all starting conditions are met and then turn the key                                                                                      |
| Proceed forward                | press the pedal down, engage the gear and gradually release the pedal.                                                                                                  |
| Braking or stopping            | Reduce engine speed and press the brake pedal.                                                                                                                          |
| Proceed in reverse             | Stop the machine; put it in neutral, press the pedal down, engage reverse gear and gradually release the pedal.                                                         |
| Mow the grass                  | Install the discharge guard; operate the throttle; engage the blades; adjust the cutting height, press the pedal down, engage the gear and gradually release the pedal. |
| Unblock the collection channel | Stop moving forward, disengage the blades and turn off the engine. Open the discharge guard and clean the collection channel.                                           |
| Finish mowing                  | Disengage the blades and reduce engine speed.                                                                                                                           |
| Stop the engine                | Reduce engine speed, wait a few seconds, turn the key and close the fuel valve.                                                                                         |
| Store the machine (5.4.9)      | Engage the parking brake, remove the key and, if necessary, wash the machine, the inside of the cutting deck, the collection channel and the grass catcher.             |

## 5.5 USE ON SLOPED TERRAIN

Mow only on slopes whose maximum values have already been indicated. Sloped lawns must be mowed moving up and down, never across. When changing direction, be very careful that the wheels facing the slope do not hit obstacles (such as stones, branches, roots, etc.) that could cause the machine to tip sideways, overturn, or cause the operator to lose control.



REDUCE SPEED BEFORE ANY CHANGE OF DIRECTION ON A SLOPE and

**IMPORTANT**

always engage the parking brake before leaving the machine stationary and unattended.



**WARNING!**

Start moving forward very carefully on sloped terrain to avoid the risk of overturning. Reduce forward speed before tackling a slope, especially downhill.



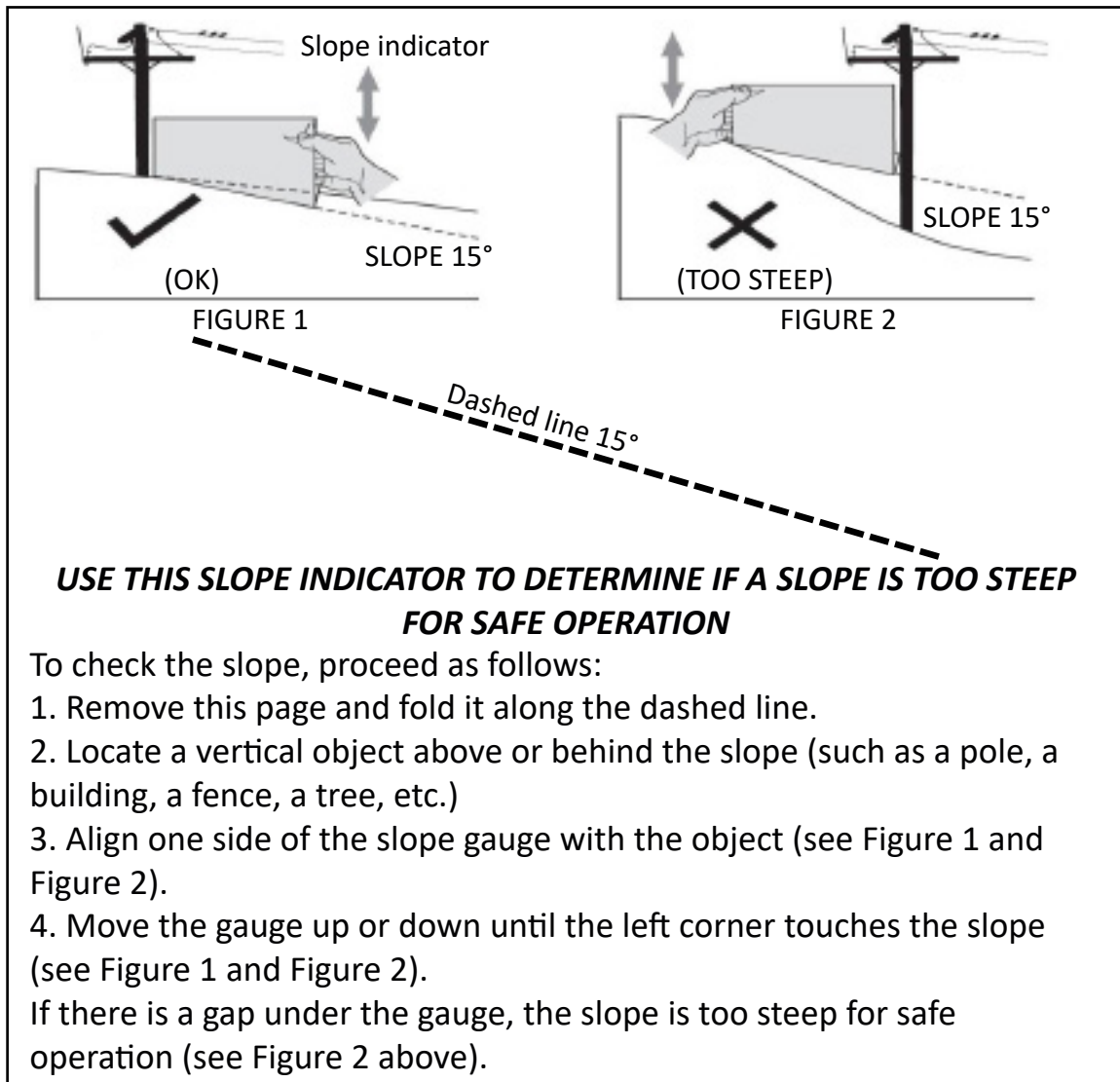
**DANGER!**

Never use reverse gear to reduce speed downhill, as it may cause loss of vehicle control, especially on slippery terrain.



**DANGER!**

Never drive the machine on slopes with the gear in neutral or with the clutch disengaged! Always engage a low gear before leaving the machine stationary and unattended.



**WARNING!**

Slopes are one of the main factors related to overturning and accidents that can cause injury or death. Do not operate the machine on slopes greater than 15 degrees. All slopes require extra caution.

## 5.6 TRANSPORT

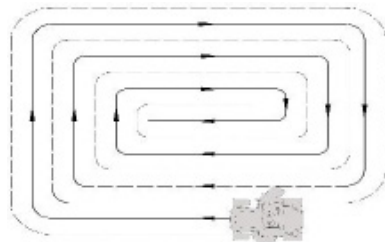


**WARNING!**

If the machine is transported on a truck or trailer, use suitable lifting equipment and enough people for the weight to be lifted and the type of lifting system used. The machine must never be lifted with ropes and hoists. During transport, close the fuel valve, lower the cutting deck, engage the parking brake and securely fasten the machine with ropes or chains to the transport vehicle.

## 5.7 LAWN MAINTENANCE

1. To keep a lawn green, soft and beautiful, it must be mowed regularly without damaging the grass. A lawn can be made up of different types of grass. If the lawn is mowed frequently, the grass and roots grow more vigorously, forming a solid turf. If the lawn is mowed less frequently, taller grass and weeds (as well as daisies and clover, etc.) begin to grow.
2. It is always better to cut the grass when it is dry.
3. The blades must be in good condition and well sharpened, so that the grass is cut straight without irregular edges that lead to yellowing of the tips.
4. The engine must run at full speed, both to ensure a clean cut of the grass and to be able to push the cut material through the collection channel.
5. The frequency of mowing should depend on the growth rate of the grass. The grass should not grow too much between mowings.
6. During hot and dry periods, the grass should be cut a little higher to prevent the soil from drying out too much.
7. The optimal height of the grass in a well-maintained lawn is about 4-5 cm. With a single mowing, you should remove at most one third of the total height. If the grass is very tall, it should be cut twice within twenty-four hours: the first time with the blades at the maximum height, possibly reducing the cutting width, and the second at the desired height.
8. If mowing large areas, start to the right so that the cut grass is discharged away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction by turning left until the job is finished.
9. By alternating mowing in both directions, the appearance of the lawn will be better.
10. If the collection system tends to get clogged with grass, it is necessary to reduce the forward speed, as it may be too high for the lawn conditions. If the problem persists, the causes are probably poorly sharpened blades or deformed wings.
11. Pay close attention when cutting near bushes or curbs, as they may distort the horizontal position of the cutting deck and damage its edge and blades.



## 6. MAINTENANCE

### 6.1 SAFETY RECOMMENDATIONS



**WARNING!**

Before performing cleaning or maintenance operations, remove the ignition key and read the relevant instructions. Wear appropriate clothing and work gloves whenever there may be a risk to your hands.



**WARNING!**

Never use the machine if it has worn or damaged parts. Defective or worn parts must always be replaced and never repaired. Use only original spare parts: Spare parts of different quality can damage the equipment and compromise the safety of the operator and others.

**IMPORTANT**

Never dispose of oil, fuel, batteries, or other pollutants in unauthorized places!

## 6.2 SCHEDULED MAINTENANCE

### 6.2.1 Scheduled maintenance

| Operation                                                                              | Frequency       | Completed (Date or Time) |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------|-----------------|--------------------------|--|--|--|--|--|--|--|
| <b>1. MACHINE</b>                                                                      |                 |                          |  |  |  |  |  |  |  |
| 1.1 Engine oil check                                                                   | Before each use |                          |  |  |  |  |  |  |  |
| 1.2 Tire pressure check                                                                | Before each use |                          |  |  |  |  |  |  |  |
| 1.3 Safety and control checks                                                          | Before each use |                          |  |  |  |  |  |  |  |
| 1.4 Product damage check                                                               | Before each use |                          |  |  |  |  |  |  |  |
| 1.5 Complete product cleaning                                                          | After each use  |                          |  |  |  |  |  |  |  |
| 1.7 Blade fastening and sharpening check                                               | Every 25 hours  |                          |  |  |  |  |  |  |  |
| 1.8 Drive belt check                                                                   | Every 25 hours  |                          |  |  |  |  |  |  |  |
| 1.9 Blade check                                                                        | Every 25 hours  |                          |  |  |  |  |  |  |  |
| 1.10 Bolts and screws check                                                            | Every 25 hours  |                          |  |  |  |  |  |  |  |
| 1.11 General lubrication                                                               | Every 25 hours  |                          |  |  |  |  |  |  |  |
| 1.12 Blade replacement                                                                 | Every 100 hours |                          |  |  |  |  |  |  |  |
| 1.13 Overall maintenance review carried out by the dealer or authorized service center | Every year      |                          |  |  |  |  |  |  |  |

## 2. ENGINE

|                                         |                 |  |  |  |  |  |  |  |  |
|-----------------------------------------|-----------------|--|--|--|--|--|--|--|--|
| 2.1: First oil change                   | Every 20 hours  |  |  |  |  |  |  |  |  |
| 2.2 Engine oil change (1)               | Every 50 hours  |  |  |  |  |  |  |  |  |
| 2.3 Air filter cleaning (1)             | Every 50 hours  |  |  |  |  |  |  |  |  |
| 2.4 Spark plug check and adjustment (1) | Every 100 hours |  |  |  |  |  |  |  |  |
| 2.5 Fuel tank and filter cleaning       | Every 100 hours |  |  |  |  |  |  |  |  |
| 2.6 Air filter replacement (1)          | Every year      |  |  |  |  |  |  |  |  |
| 2.7 Spark plug replacement              | Every year      |  |  |  |  |  |  |  |  |

- 1) Refer to the engine manual for the complete list and frequency.
- 2) At the first signs of wear, contact the dealer for component replacement.
- 3) General lubrication of all joints must be carried out even when the machine remains unused for a long period.

The table above helps the operator ensure the safety and performance of the machine. It indicates the main maintenance and lubrication operations and their recommended frequency. To the right of each item there is a box where you can write the date or the number of operating hours after which the intervention was carried out.



**WARNING!**

All checks, adjustments, and replacements not described in sections 6.3 and 6.4 of this manual must be carried out by the dealer or a specialized service center. Both have the knowledge and tools necessary to ensure that the work is carried out correctly without compromising the safety of the machine.

## 6.2.2 Summary of the main situations in which an intervention may be required maintenance

| Whenever...                                         | It will be necessary... |
|-----------------------------------------------------|-------------------------|
| The blades vibrate                                  | Contact your dealer     |
| The blades tear the grass and the lawn turns yellow | Contact your dealer     |
| The mowing is not uniform                           | Align the cutting deck. |
| The blades engage abnormally                        | Contact your dealer     |
| The machine does not brake                          | Contact your dealer     |
| The forward movement is not smooth                  | Contact your dealer     |

## 6.2.3 Engine

**IMPORTANT** Follow all instructions in the engine manual.

To drain the engine oil, unscrew the oil cap and—when screwing it back on—make sure the gasket is positioned correctly.

## 6.2.4 Battery

The battery must be maintained to ensure its lifespan. The machine's battery must always be charged:

- before using the machine for the first time after purchase;
- before leaving the machine unused for a long period;
- before starting the machine after a long period of disuse.

Read carefully and follow the battery charging instructions provided in the supplied booklet. Failure to follow the instructions or to recharge the battery may permanently damage the battery cells.

A discharged battery must be recharged as soon as possible.

**IMPORTANT** Charging must be carried out with a **constant voltage** charger. Other charging systems may irreversibly damage the battery.

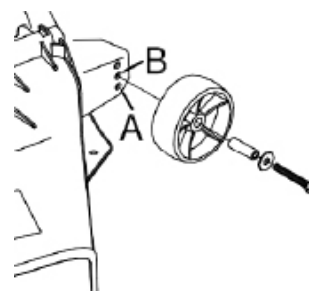
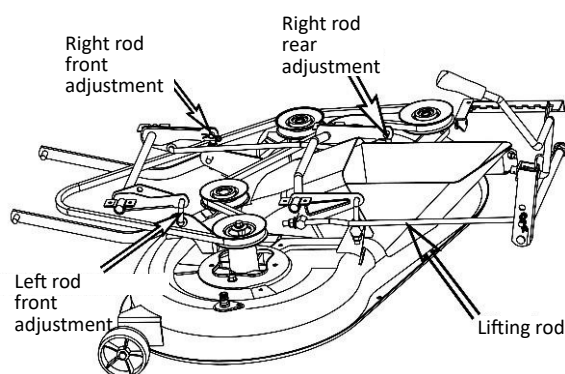
## 6.3 CHECKS AND ADJUSTMENTS

The cutting deck must be properly adjusted to achieve good mowing.

### NOTE

To achieve good cutting results, the front part must always be 5-6 mm lower than the rear.

- Place the machine on a flat surface and check the tire pressure;
- Place 30 mm blocks under the front edge of the deck and 35 mm blocks under the rear edge, then set the lifting lever to "2";
- Adjust the left front, right front, and right rear adjustment rods so that the platform is in contact with the blocks;
- Adjust the lifting rod to keep the deck in contact with the blocks.



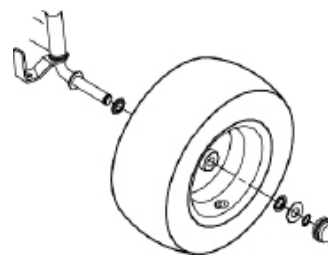
**IMPORTANT**

If the lawn is sloped, the wheel must be positioned in hole "A". If in doubt, contact your dealer.

## 6.4 DISASSEMBLY AND REPLACEMENT

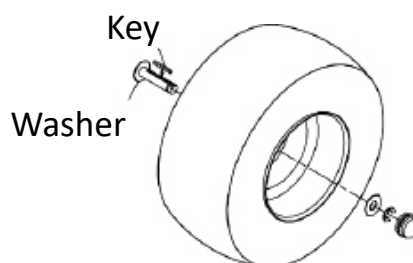
### 6.4.1 Wheel replacement

- 1) Refer to the engine manual for the complete list and frequency.
- 2) At the first signs of wear, contact the dealer for component replacement.
- 3) General lubrication of all joints must be carried out even when the machine remains unused for a long period.



**NOTE**

If one or both rear wheels need to be replaced, they must have the same diameter and you must check that the cutting deck is level to avoid uneven mowing. You must ensure that the key and washer are securely in place.

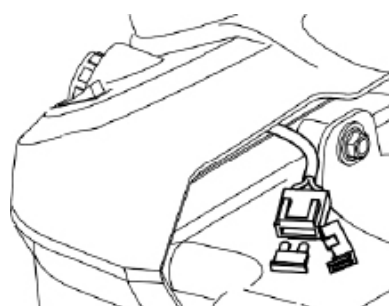


**IMPORTANT**

Before reassembling the wheel, apply grease to the axle. Reinstall the retaining ring and the support washer.

### 6.4.2 Tire replacement and repair

The tires are "Tubeless" and therefore all punctures must be repaired by a tire specialist following the procedures for this type of tire.



### 6.4.3 Replacing a fuse

The machine is equipped with 10 A fuses. When they blow, the machine stops, the dashboard light goes out, and the battery gradually discharges; the machine will have trouble starting. Remove the fuse and replace it with one of the same type.

**IMPORTANT**

A blown fuse must always be replaced with one of the same type and rating, never with one of a different rating.

### 6.4.4 Removal, replacement, and reassembly of the blades



**WARNING!**

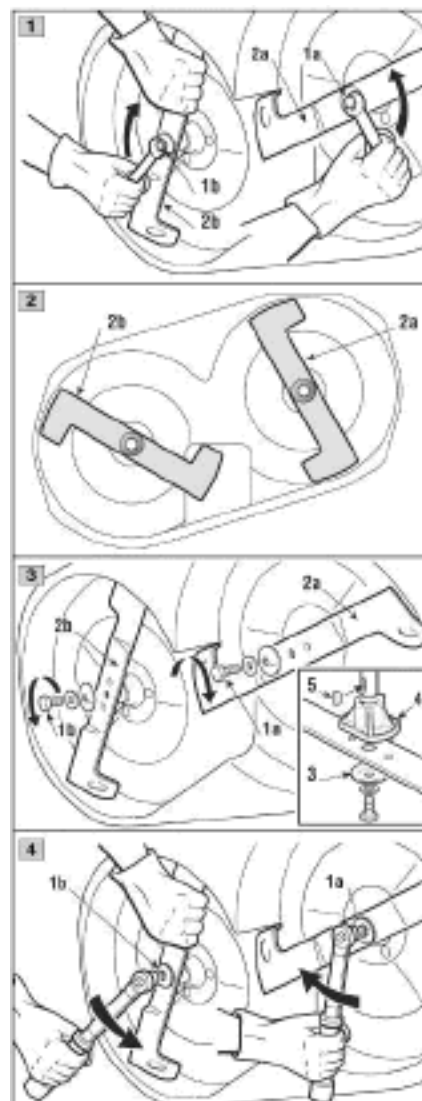
Always wear work gloves when handling the blades. Before inspecting or removing the blades, stop the engine and disconnect the spark plug wire.



**WARNING!**

Damaged or bent blades must always be replaced; never attempt to repair them! ALWAYS USE ORIGINAL BLADES! Ensure that the blades are properly balanced. The blades are different and rotate in different directions, so make sure to reinstall them correctly by referring to the code stamped on the outside of each blade.

1. Removal 1a = right-hand thread screw (loosen counterclockwise) 1b = left-hand thread screw (tighten clockwise)
2. Original spare parts
3. Reassembly Check that the concave part of the shock absorber disc (3) presses against the blade. Reinstall the shaft hubs (4), making sure that the keys (5) are securely seated in position.
4. Tighten the screws 1a = right-hand thread screw (tighten clockwise) 1b = left-hand thread screw (tighten counterclockwise)  
Tighten with a torque wrench set to 40-45 Nm.



#### 6.4.6 Belt replacement

Belt replacement must be carried out at an authorized service center. Replace the belts as soon as they show obvious signs of wear!



**WARNING!**

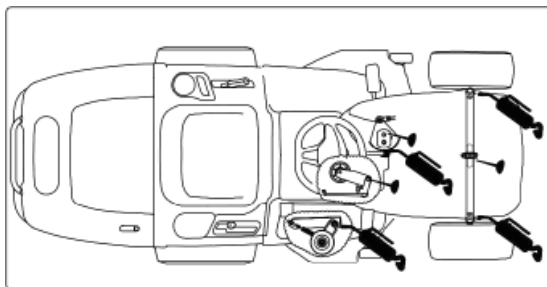
**ALWAYS USE ORIGINAL REPLACEMENT BELTS!**

#### 6.5 LUBRICATION

Apply two or three squirts of grease with an injector to the indicated areas and remove any excess grease.

Lubricate the indicated areas with engine oil; clean the area, apply a few drops of oil, then wipe up any drops or spills.

## MAINTENANCE



### IMPORTANT

Do not get oil or grease on the belt, brake shoe, or tire, as either can damage them.

## 7. TROUBLESHOOTING



### WARNING!

Danger

Risk of injury in case of unintentional engine start

Protect yourself from injury. Before performing any work on this lawnmower:

- Turn off the engine.
  - Remove the ignition key.
  - Engage the parking brake.
  - Wait until all moving parts have stopped and the engine has completely cooled down.
  - Disconnect the spark plug connector from the engine to prevent accidental starting.
- Failures that occur during use of the lawnmower often have simple causes that are good to know and can be resolved independently. If in doubt, the dealer or service center will be happy to provide support.

| Problem                    | Possible causes                                   | Solution                                                                                                                    |
|----------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| The headlights do not work | 1. The headlight wire connector is not connected. | Turn the key to "STOP" and connect the headlight wire.                                                                      |
|                            | 2. The bulbs are faulty.                          | Turn the key to "STOP" and replace the bulbs.                                                                               |
|                            | 3. The battery is not connected correctly.        | Connect the red cable to the (+) terminal of the battery and the black cable to the (-) terminal of the battery. (par. 3.4) |
|                            | 4. The ignition switch is faulty                  | Replace the ignition switch                                                                                                 |
|                            | 5. The battery is faulty                          | Check and recharge or replace the battery                                                                                   |
|                            | 6. Short circuit in the wiring                    | Contact the dealer or service center                                                                                        |

## TROUBLESHOOTING

| Problem                         | Possible causes                                             | Solution                                                                                                          |
|---------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| The starter motor does not work | 1. The conditions for safe starting are not met             | Check that all conditions are met (par. 5.4.1)                                                                    |
|                                 | 2. There is no fuel in the tank.                            | Turn the key to "STOP" and fill the tank with fuel. (par. 5.3.3)                                                  |
|                                 | 3. Poor contact between the cable and the battery terminal. | Check the connections (par. 3.4)                                                                                  |
|                                 | 4. Battery discharged or faulty                             | Check and recharge or replace the battery.                                                                        |
|                                 | 5. Faulty fuse.                                             | Replace the fuse. If the fuse blows repeatedly, determine the cause (usually it is a short circuit). (par. 6.4.3) |
|                                 | 6. Clogged air filter                                       | Clean the air filter.                                                                                             |
|                                 | 7. Faulty spark plug.                                       | Check the spark plug connection, clean or replace the spark plug.                                                 |
|                                 | 8. Faulty brake pedal.                                      | Contact the dealer or the service center.                                                                         |
|                                 | 9. Unable to lower the clutch or the brake switch.          | Press the power take-off button to OFF. (par. 4.3)                                                                |
|                                 | 10. Faulty starter relay                                    | Replace the starter relay.                                                                                        |
|                                 | 11. The ignition switch is faulty                           | Replace the ignition switch.                                                                                      |

| Problem                     | Possible causes                   | Solution                                                                                                                                                               |
|-----------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The engine runs irregularly | 1. Carburetor problem             | Contact the dealer or service center.                                                                                                                                  |
|                             | 2. Blocked air filter.            | Clean or replace the air filter (see the engine manual).                                                                                                               |
|                             | 3. Blocked fuel tank ventilation. | 1. Check and replace the fuel filter if necessary (see the engine manual or contact the dealer or service center). 2. Empty the fuel tank and fill it with fresh fuel; |
|                             | 4. The grass is too high          | Reduce the driving speed according to the height of the grass and/or increase the cutting height.                                                                      |
| The engine is weak          | 1. Blocked air filter.            | Clean or replace the air filter (see the engine manual).                                                                                                               |
|                             | 2. The engine speed is too low    | Increase the acceleration.                                                                                                                                             |
|                             | 3. Driving speed too high.        | Set a lower driving speed.                                                                                                                                             |
|                             | 4. Faulty spark plug.             | Replace the spark plug; see the engine manual.                                                                                                                         |
|                             | 5. Fuel tank ventilation blocked  | 1. Check and replace the fuel filter if necessary (see the engine manual or contact the dealer or service center). 2. Empty the fuel tank and fill it with fresh fuel; |

## TROUBLESHOOTING

| Problem                     | Possible causes                                           | Solution                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| The battery does not charge | 1. Faulty fuse.                                           | Replace the fuse. If the fuse blows repeatedly, determine the cause (usually it is a short circuit). (par. 6.4.3)                                  |
|                             | 2. Poor contact between the battery terminals and cables. | Check the connections (par. 3.4)                                                                                                                   |
| The machine does not move   | 1. The brake is engaged                                   | Hold down the brake pedal and release the parking brake; slowly release the brake pedal to start the forward movement of the machine. (par. 5.4.2) |
|                             | 2. Transmission disengaged (hydrostatic transmission)     | Engage the transmission. (par. 5.3.5)                                                                                                              |
|                             | 3. Drive belt detached                                    | Fit the belt in place.                                                                                                                             |
|                             | 4. Faulty or worn drive belt                              | Replace the drive belt.                                                                                                                            |
| Strong vibrations           | 1. Loose blades.                                          | Check and tighten all blades (see Tightening torque par. 6.4.4) or contact your dealer or service center.                                          |
|                             | 2. Loose engine.                                          | Check and tighten all engine and frame bolts                                                                                                       |
|                             | 3. Imbalance of one or both blades due to damage.         | Contact the dealer or service center.                                                                                                              |
|                             | 4. The cutting unit is full of grass                      | Clean the cutting unit                                                                                                                             |
|                             | 5. The engine mount is not properly tightened             | Tighten the engine mount or contact the dealer or service center.                                                                                  |
|                             | 6. Damaged belt                                           | Replace the belt                                                                                                                                   |

| Problem                           | Possible causes                                             | Solution                                                                                                    |
|-----------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Irregular or poor cutting results | 1. Blunt or worn blades                                     | Sharpen or replace the cutting blades                                                                       |
|                                   | 2. Different air pressure in the right and left side tires. | Check the tire pressure (par. 5.3.2)                                                                        |
|                                   | 3. Cutting deck adjustment.                                 | Check the deck adjustment (see 6.3 or contact the dealer or service center)                                 |
|                                   | 4. Long and/or wet grass                                    | Adjust the cutting height and driving speed to the mowing conditions.                                       |
|                                   | 5. Driving speed too high.                                  | Set a lower driving speed.                                                                                  |
|                                   | 6. Grass stuck under the cutting deck                       | Properly clean the inside of the deck (use a suitable accessory to access the cleaning of the cutting deck) |
|                                   | 7. Slipping of the cutting drive belt                       | Replace the cutting drive belt                                                                              |
|                                   | 8. The collection channel is blocked.                       | Remove the grass catcher and empty the discharge channel                                                    |

If the problems persist after performing the operations described above, contact the dealer or service center.

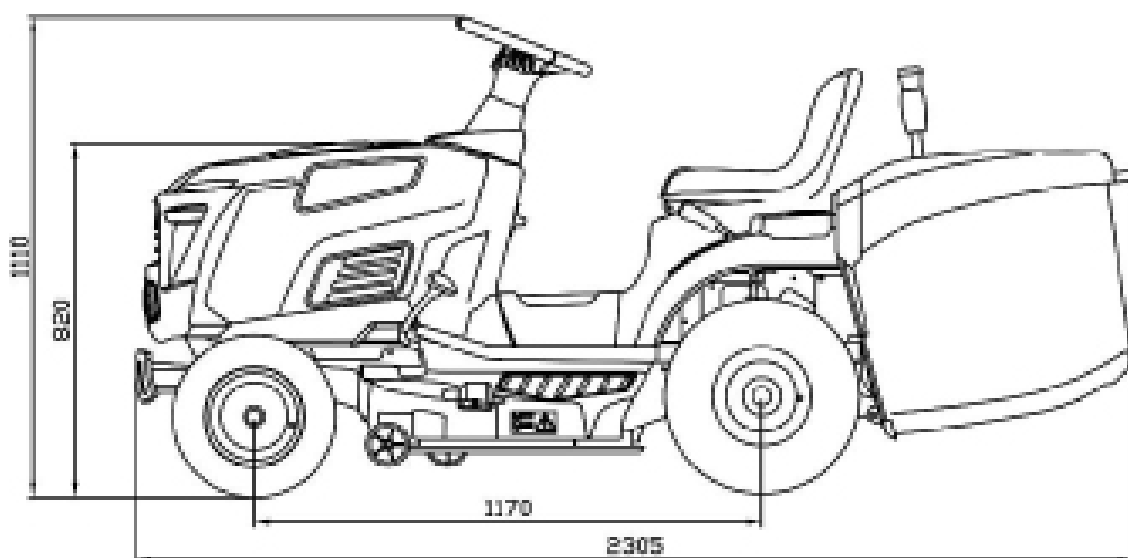
## 8. SPECIFICATIONS

### 8.1 TECHNICAL DATA TABLE

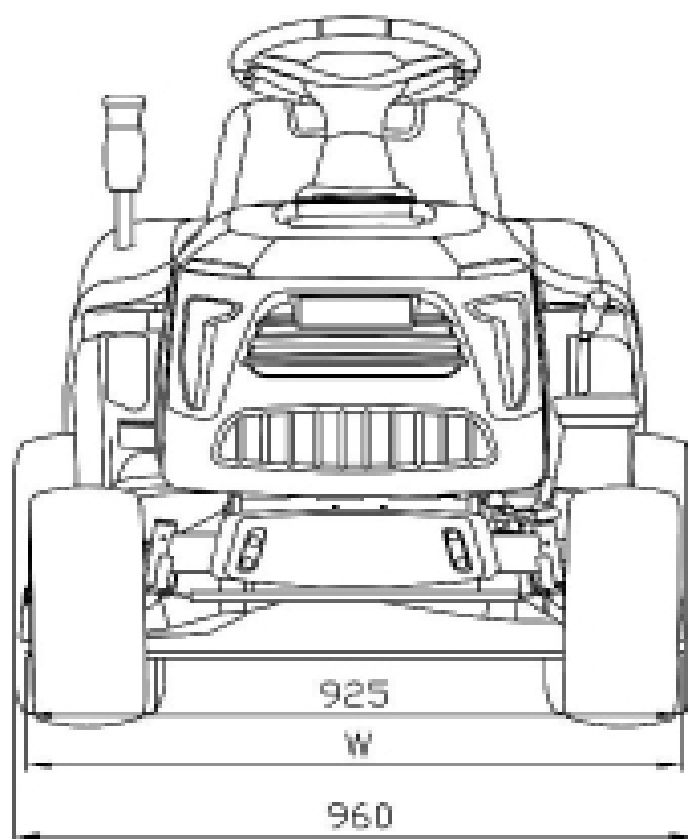
| Model                                     |                         | TR P 86H                                               | TR P 92H                                               | TR P 102H TWIN                                         |
|-------------------------------------------|-------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Engine model                              |                         | LC1P90F-1                                              | LC1P92F-1                                              | LC2P73F                                                |
| Engine displacement                       |                         | 432 cm <sup>3</sup>                                    | 452 cm <sup>3</sup>                                    | 586 cm <sup>3</sup>                                    |
| Rated power:                              |                         | 7.5 kW                                                 | 7.8 kW                                                 | 10.3 kW                                                |
| Maximum engine speed:                     |                         | 2600 min <sup>-1</sup>                                 | 2600 min <sup>-1</sup>                                 | 2600 min <sup>-1</sup>                                 |
| Cutting width                             |                         | 86 cm                                                  | 92 cm                                                  | 102 cm                                                 |
| Sound pressure level at the operator      |                         | LpA: 87.8 dB(A),<br>KpA: 3 dB(A)                       | LpA: 86.7 dB(A),<br>KpA: 3 dB(A)                       | LpA: 87.6 dB(A),<br>KpA: 3 dB(A)                       |
| Measured sound power level                |                         | LWA: 99.4 dB(A),<br>KWA: 0.91 dB(A)                    | LWA: 98.4 dB(A),<br>KWA: 1.2 dB(A)                     | LWA: 99.3 dB(A),<br>KWA: 1.11 dB(A)                    |
| Guaranteed sound power level (2000/14/EC) |                         | LWA: 100 dB(A)                                         | LWA: 100 dB(A)                                         | LWA: 100 dB(A)                                         |
| Vibration                                 | to the handlebar system | ah: 3.5 m/s <sup>2</sup> ,<br>Kh: 1.5 m/s <sup>2</sup> | ah: 4.1 m/s <sup>2</sup> ,<br>Kh: 1.5 m/s <sup>2</sup> | ah: 2.8 m/s <sup>2</sup> ,<br>Kh: 1.5 m/s <sup>2</sup> |
|                                           | Whole body              | ah: 0.6 m/s <sup>2</sup> ,<br>Kh: 1.5 m/s <sup>2</sup> | ah: 0.7 m/s <sup>2</sup> ,<br>Kh: 1.5 m/s <sup>2</sup> | ah: 0.6 m/s <sup>2</sup> ,<br>Kh: 1.5 m/s <sup>2</sup> |
| Mass                                      |                         | 189,5 kg                                               | 191,5 kg                                               | 196,5 kg                                               |
| Driving speed                             |                         | Forward: 0-8.8 km/h,<br>reverse: 0-4.5 km/h            | Forward: 0-8.8 km/h,<br>reverse: 0-4.5 km/h            | Forward: 0-8.8 km/h,<br>reverse: 0-4.5 km/h            |

|                                        |                |
|----------------------------------------|----------------|
|                                        | For all models |
| Blade screw tightening torque          | 40-45 Nm       |
| Cutting height (on 7 levels)           | 30-90 mm       |
| Front wheels                           | 15 × 6.00-6    |
| Rear wheels                            | 18 × 8.50-8    |
| Inflation pressure of the front wheels | 1,0 bar        |
| Rear wheel inflation pressure          | 1,2 bar        |
| Electrical system                      | 12 Vdc         |
| Battery                                | 18 Ah          |
| Minimum turning radius                 | 45 cm          |
| Fuel tank capacity                     | 7.5 L          |

### 8.2 Machine dimensions



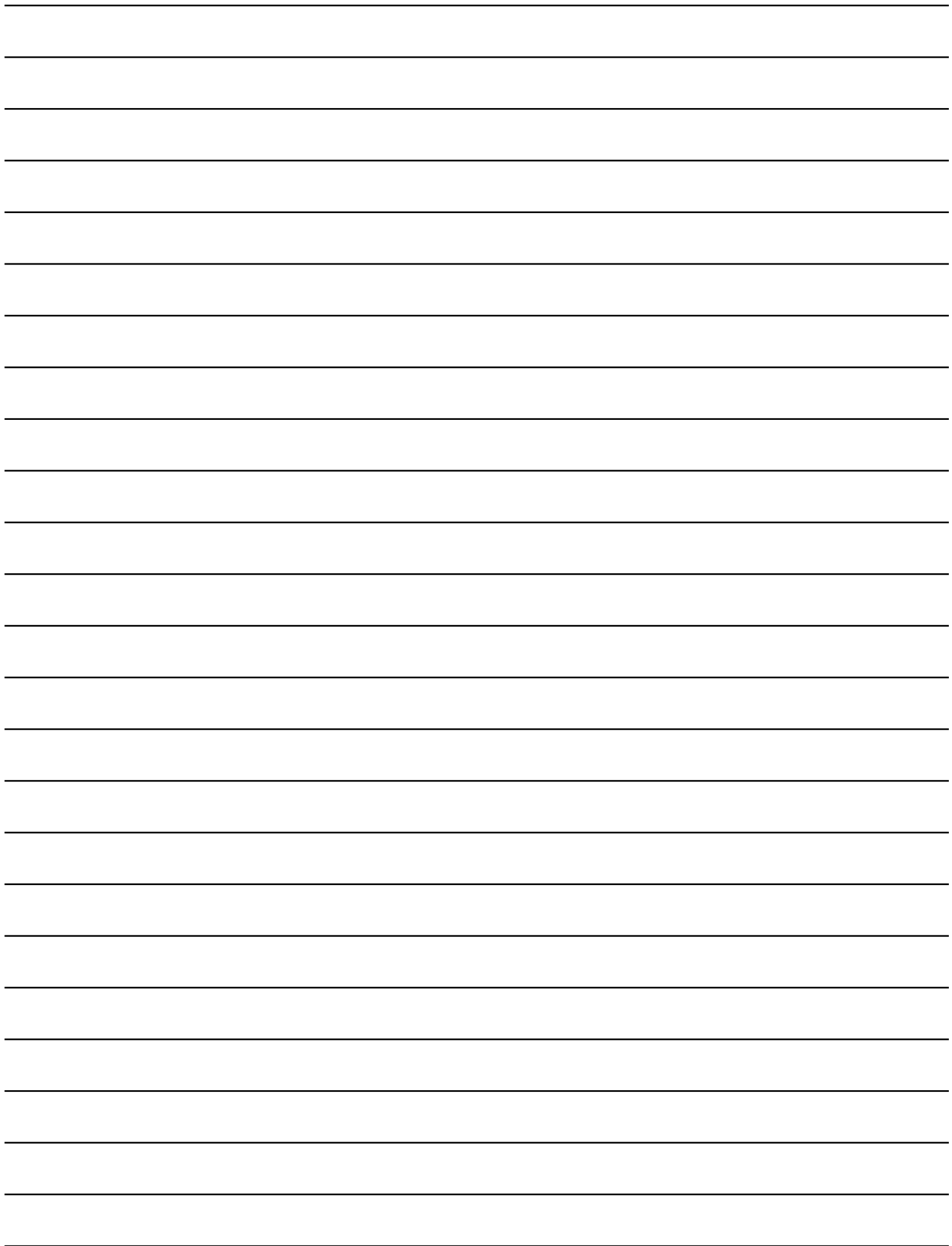
## SPECIFICATIONS



| Model  | TR P 86M | TR P 92H | TR P 102H TWIN |
|--------|----------|----------|----------------|
| L (mm) | 930      | 980      | 1080           |

## 9. WARRANTY

1. The warranty applies to all material and manufacturing defects that may occur in any country. No further claims, of any kind, direct or indirect, relating to persons and/or materials are possible.
2. In case of problems or defects, you must always contact your dealer. In most cases, the dealer will be able to solve the problem or correct the defect.
3. Repairs or replacement of components do not extend the original warranty period.
4. Defects due to improper use or wear and tear are not covered by the warranty.
5. The warranty claim cannot be processed in the event of:
  - Incorrect or prohibited use or assembly;
  - Use of non-original spare parts;
  - Use of accessories not supplied or not approved by the manufacturer;
  - Damage caused by external agents or foreign bodies such as sand or stones.
  - Damage caused by failure to follow the operating instructions;
  - Normal wear of consumable materials, such as drive belts, headlights, wheels, blades, safety bolts, and cables.
  - Normal wear.
  - Engines are covered by the warranty provided by the respective manufacturer in accordance with the specified terms and conditions. The information is contained in the user and maintenance manual provided separately by the engine manufacturer.
6. The purchaser is protected by their own national legislation. The purchaser's rights provided by the national laws of their own country are in no way limited by this warranty.



EC DECLARATION OF CONFORMITY - HERSTELLERERKLÄRUNG - DECLARATION 'CE' DE CONFORMITE - DECLARACION DE CONFORMIDAD - DICHIARAZIONE DI CONFORMITA' EUROPEA - GELIJKVORMIGHEIDSVERKLARING - EC DEKLARATION I OVERENSSTEMMELSE - DECLARAÇÃO CE DE CONFORMIDADE - EY ILMOITUS - FORSAKRAN OM OVERENSSTÄMMELSE - BEKREFTENDE EU ERKLÆRING - ΔΗΛΩΣΗ ΕΚ ΣΥΜΜΟΡΦΩΣΗΣ - EUROPEJSKA DEKLARACJA ZGODNOSCI

1) MANUFACTURER - HERSTELLER - FABRICANT - FABRICANTE - COSTRUTTORE - CONSTRUCTEUR - PRODUCENT - FABRICANTE - VALMISTAJA - TILLVERKARE - FABRIKANT - Κατασκευαστής - PRODUCENT:

Blue Bird Industries Fabbbrica Motori s.r.l.  
Via Due Camini 19, 36010 Zanè (VI), Italia

2) DESCRIPTION OF THE MACHINERY - BESCHREIBUNG DER MASCHINE - DESCRIPTION DE LA MACHINE - DESCRIPCION DE LA MAQUINARIA - DESCRIZIONE DELLA MACCHINA - BESCHRIJVING VAN DE MACHINE - BESKRIVELSE AF MASKINEN - DESCRIÇÃO DA MAQUINA - KONEEN NIMITYS - MATERIELSLAG - BESKRIVELSE AV MASKINERIE - ΠΕΡΙΓΡΑΦΗ ΤΩΝ ΜΗΧΑΝΩΝ - OPIS MASZYN: TRATTORINI TAGLIAERBA - LAWNMOWER TRACTORS

a) MAKE - FABRIKAT - MARQUE - MARCA - MARCA - MERK - MÆRKE - MARCA - MERKKI - FABRIKAT - FABRIKANT - MAPKA - MARKA:

**BLUE BIRD INDUSTRIES Fabbbrica Motori srl**  
Via Due Camini 19,36010 Zanè, Italia

b) TYPE / TYP / TYPE / TIPO / TIPO / TYPE / TYPE / TIPO / MALLI / TYPBE / TYPE / TYÖO / TYP:

TR P 86H  
TR P 92H  
TR P 102H TWIN

| 2000/14/EC (2005/88/EC) - Livelli di potenza sonora come da allegato VI - Sound Power Levels performed per annex VI |                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| TIPO                                                                                                                | Livelli di Potenza Sonora Misurata / Livelli di Potenza Sonora Garantita LWA<br>Sound Power Levels Measured / Sound Power Level Guaranteed LWA<br>(dB) |
| TR P 86H                                                                                                            | 99,4/100                                                                                                                                               |
| TR P 92H                                                                                                            | 98,4/100                                                                                                                                               |
| TR P 102H TWIN                                                                                                      | 99,3/100                                                                                                                                               |

c) Il prodotto è conforme alle direttive - The product complies with the directives - Das Produkt entspricht den Richtlinien - Le produit est conforme aux directives - El producto cumple con las directivas:

- 2006/42/EC - 2014/30/EU - 2000/14/EC (2005/88/EC) - 2011/65/EU

d) REFERENCE TO STANDARDS/HARMONIZED STANDARDS - VERWEIS AUF NORMEN/HARMONISIERTE NORMEN - REFERENCE AUX NORMES/NORMES HARMONISEES - REFERENCIA A ESTANDARES/ESTANDARES ARMONIZADOS - RIFERIMENTO ALLE NORME/NORME ARMONIZZATE - REFERENTIE NAAR STANDAARDEN/GEHARMONISEERDE STANDAARDEN - REFERENCE TIL STANDARDER/HARMONISEREDE STANDARDER - REFERENCIA AS NORMAS/NORMAS HARMONIZADAS - VITTAUS STANDARDEIHIN/YHTEISIIN STANDARDEIHIN - REFERERANDE TILL STANDARDER/HARMONISERADE STANDARDER - HENVISNING TIL STANDARD/FELLES STANDARD - ΑΝΑΦΟΡΑ ΣΕ ΠΡΟΤΥΠΑ/ΕΝΑΡΜΟΝΙΣΜΕΝΑ ΠΡΟΤΥΠΑ - ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH:

EN ISO 5395-1:2013+A1 EN ISO 5395-3:2013+A1+A2 EN ISO 12100:2010 EN ISO 14982:2009

Importato da - Imported by - Eingeführt von - Importé par - Importado por:



**BLUE BIRD INDUSTRIES - FABBRICA MOTORI s.r.l.**

ZANÈ (VI) - ITALIA

26-08-2022

The chairman - Der vorsitzender - Le président - El presidente - Il presidente - De voorzitter - Daglig leder - O presidente - Toimitusjohtaja - Verkställande direktör - Administrerende direktør - Ο ΠΡΟΕΔΡΟΣ - Prezes

VANDA VITELLA

(GB) Technical documentation maintained by  
(F) Documentation technique maintenue par  
(I) Documentazione tecnica conservata da  
(DK) Teknisk dokumentation tilhåndhællen av  
(FI) Teknisten asiakirjojen ylläpitäjä  
(NO) Teknisk dokumentasjon vedlikeholdt av

(D) Technische Dokumentation aktualisiert durch  
(E) Documentacion tecnica mantenida por  
(NL) Technische documentatie onderhouden door  
(P) Documentação tecnica mantida por  
(SE) Teknisk dokumentation tillhålls av  
(GR) τεχνικό φάκελο που τηρείται από

**BLUE BIRD INDUSTRIES - FABBRICA MOTORI s.r.l.**

VANDA VITELLA





**BLUE BIRD INDUSTRIES** Fabbrica Motori s.r.l.

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