

FD 220E

Electric Lawnmower

OPERATOR'S MANUAL

EN



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Translation of the original manual.
 All information, illustrations and technical specifications in this manual are based on the latest information available at the time of publication.
 Subject to change without prior notice.

1. INTRODUCTION

Dear Customer,

we thank you for the trust and preference you have placed in our Grillo FD 220E and we are confident that the use of your new machine will fully meet your requirements.

For optimal use and maintenance over time, please carefully read and follow the instructions in this booklet; this will enable you to obtain the best results and safeguard your purchase.

Please keep this manual, which should always accompany the machine as an integral part of it.

Reading the operator's manual is very important.

2. DESCRIPTION AND INTENDED USE

The Grillo FD 220E is a fully electric ride-on mower designed for grass cutting and collection and foliage collection.

Any other use is considered as improper use.

This machine must only be used by personnel who are familiar with its specific features, safety regulations and all that concerns accident prevention.

Any improper use of the machine will invalidate the warranty and relieve the manufacturer of all responsibility; any risk resulting from improper use will be borne by the user.

Maintenance and repair of the machine must be carried out by qualified personnel following the procedures specified by the manufacturer. Any alteration or tampering will invalidate the warranty and relieve the manufacturer of all responsibility for damage or accidents.

MARKINGS IN THE MANUAL

This manual contains warnings highlighted in bold and marked with these symbols:



CAUTION

This symbol and the text that follows it contain information that highlights possible, even very serious, risks to the safety of the operator and anyone working on the machine if they do not consider the written information and procedures.



IMPORTANT

This heading informs the operator of actions or conditions that could damage the machine.

Read these messages carefully to avoid injury or damage to the machine.

The retailer is responsible for inspecting the machine before delivery and for completing the inspection form 'PRE-DELIVERY INSPECTION'.

On this occasion the retailer will provide the customer with all the information necessary to use the machine.

The customer will receive the machine in optimum condition.

3. SAFETY DECALS

Dangers and warnings

Danger
consult the manual



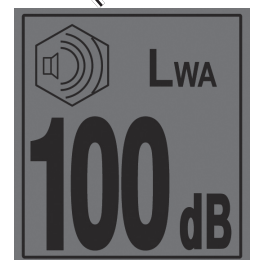
Danger
of bursting



Danger of overturning



Danger of sharp blades and
danger of objects thrown by the rotation of the blades



Sound power level

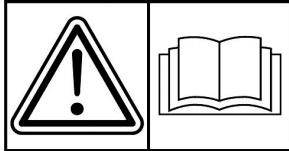
4. GENERAL SAFETY RULES

ACCIDENT PREVENTION RULES

On the machine and in this manual there are warnings and indications accompanied by this symbol:



it indicates the presence of a potential hazard for which particular caution should be taken for your own safety and for the safety of others who may be within the operating range of the machine.



All accident prevention rules in this manual are important and must be observed. Always keep the manual handy and read it carefully to learn how to use the machine safely. Do not allow anyone to use the machine without having received comprehensive instructions.

EXPLANATION OF WARNING DECALS

Danger of injury caused by sharp blades and objects thrown by the rotation of the blades



Do not put your hands or feet under or into the lawnmower when the machine is switched on. Do not work with the lawnmower on gravel or foreign bodies that can be aspirated and spun by the blade, making them very dangerous.

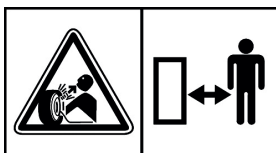
Keep people at least 15 m away when the machine is running.

Danger of machine overturning



Do not use the lawnmower on slippery ground or on slopes with a gradient greater than 15° (26%).

Danger of bursting



Rim separation or tyre bursting can cause serious injury or even death. Be sure to maintain tyre pressure at the levels recommended in this manual, excessive pressure can cause the tyre to burst.

If a tyre is damaged or cut, do not use it, it could burst. To replace or repair it, contact a specialised centre.

PERSONAL PROTECTION EQUIPMENT



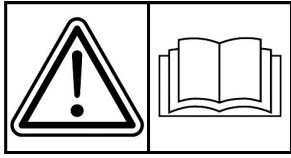
Before using the machine the appropriate personal protection equipment must be worn: body protection, protective gloves, safety footwear, hearing protection, goggles.

ELECTRICAL SAFETY



- Do not expose the battery to sparks or open flames;
- Do not carry out maintenance work on the battery;
- Do not modify the machine's electrical system and/or connectors;
- Protect the electrical parts of the machine from water jets and rain;
- Disconnect the battery from the machine before making adjustments, changing accessories or safely storing the machine.

5. GENERAL WARNINGS TO KEEP IN MIND



WARNING: Read carefully before operating the machine.

Caution is the main requirement in accident prevention! Carefully read the following warnings when using the machine, even before starting work. Improper use can be dangerous. Observe the following precautions:

- Read this manual completely before starting and running the machine;
- Before handing the machine over to other people, make them aware of the safety rules and how to use the machine;
- Pay particular attention to the safety decals on the machine;
- Before starting work, always wear appropriate work wear, long trousers, gloves, safety shoes and goggles;
- The use of hearing protection equipment is recommended when using the machine continuously. Use earplugs or earmuffs that comply with current regulations.

SAFETY IN THE WORKING ENVIRONMENT

- Before switching on the machine, check that there are no animals or people nearby, especially children. The minimum distance is 15 m;
- Before reversing, check that there are no people or obstacles behind the machine;
- Check the ground before mowing, that there are no stones, sticks or foreign bodies, which could be thrown away dangerously;
- Be very careful when working with the lawnmower on land with sandy areas or gravel driveways. Sand and gravel can be aspirated and spun by the blade, making it very dangerous;
- Be careful when working near a road;
- Do not operate near ditches or embankments which may collapse under the weight of the machine, especially if the ground surface is uneven or wet.

DRIVING AND BEHAVIOURAL SAFETY

- Keep starting keys out of the reach of children;
- Do not allow passengers in the machine;
- Children under 16 years of age must not use the machine;
- Do not use the machine when fatigued or under the influence of alcohol, drugs or medications that impair the physical or cognitive abilities of the operator;
- Be careful while driving and avoid abrupt turns, especially at maximum speed;
- Drive at low speed on uneven ground;
- Slow down on slopes and descents, and always steer slowly;
- Only work in sunlight or with good artificial light;
- Do not leave the machine on a slope;
- Before getting off the lawnmower, switch off the PTO, lower the cutting deck if lifted, switch off the machine and remove the starting key.

FURTHER SAFETY MEASURES

- If you hit a foreign object, disengage the blade, switch off the machine, remove the starting key, disconnect the battery and inspect the cutting device for damage. If damaged, repair it before putting the lawnmower back into operation;
- If the machine begins to vibrate abnormally after a knock, immediately carry out a general check to identify the reason for the anomaly. If necessary, request the assistance of an authorised Grillo workshop;
- Rotation of the mower blade is very dangerous, never put your hands or feet under the cutting deck;
- Before checking, adjusting, repairing or simply cleaning the lawnmower, switch off the machine and disconnect the battery;
- Do not place any weight on the seat, as this could deactivate the safety device that detects the presence of the operator;
- Do not lift the grass catcher when the machine is running;
- Do not tamper with or disable the safety devices;
- Do not have anyone check the machine while you are driving;
- Do not move the machine without the cutting deck, the machine could become unbalanced and driving could be dangerous.

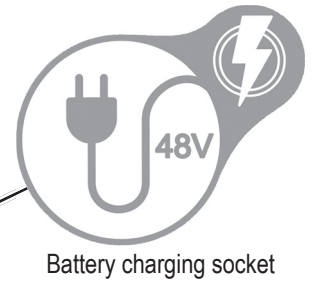
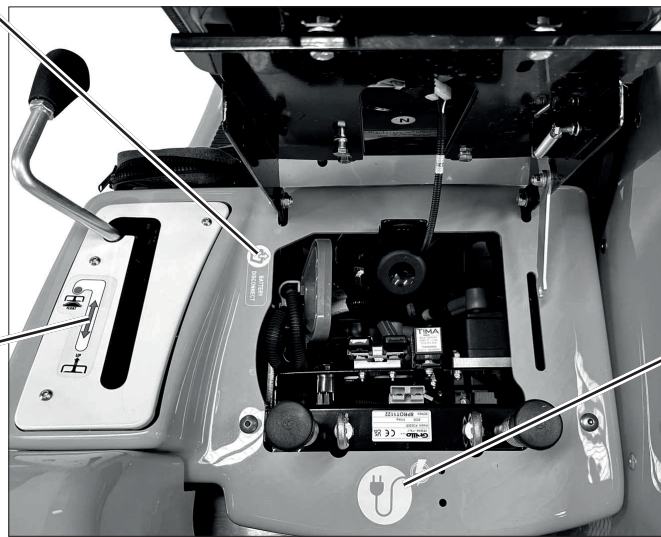
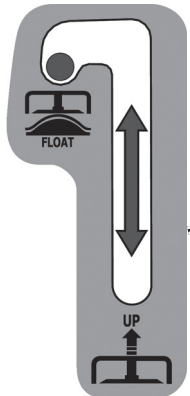
BATTERY CHARGING AND STORAGE

- Only charge with the charger specified by the manufacturer. An unsuitable charger may cause incorrect charging and malfunction, damaging the battery;
- Only use the machine with the original battery. Using other batteries may cause the machine to malfunction and damage the electrical system, posing a fire hazard;
- If the battery is damaged, disconnect it and have it checked by the service workshop;
- Do not use a damaged or modified battery. Damaged or modified batteries can have unpredictable behaviour leading to a risk of fire, explosion or injury to the operator;
- Never service damaged batteries. Servicing of batteries must be carried out by the manufacturer or authorised service providers;
- Do not expose the battery or machine to fire or excessive temperatures;
- When storing the battery alone, keep it away from metal objects such as paper clips, coins, keys, nails, screws or other small metal objects that could connect one terminal to another. Short-circuiting the battery terminals may cause burns or fire.

SAFE REPLACEMENTS

- Deformed or damaged blades must always be replaced, never repaired;
- Always use genuine Grillo spare parts and accessories.

6. IDENTIFICATION OF USE DECALS

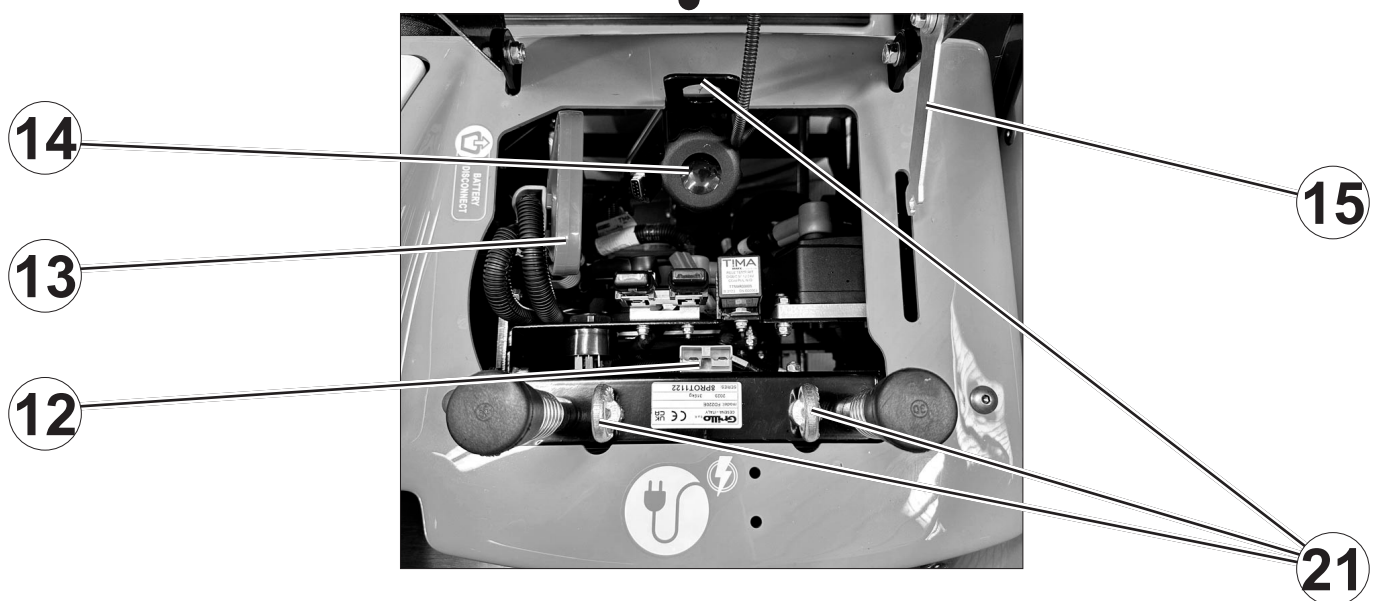
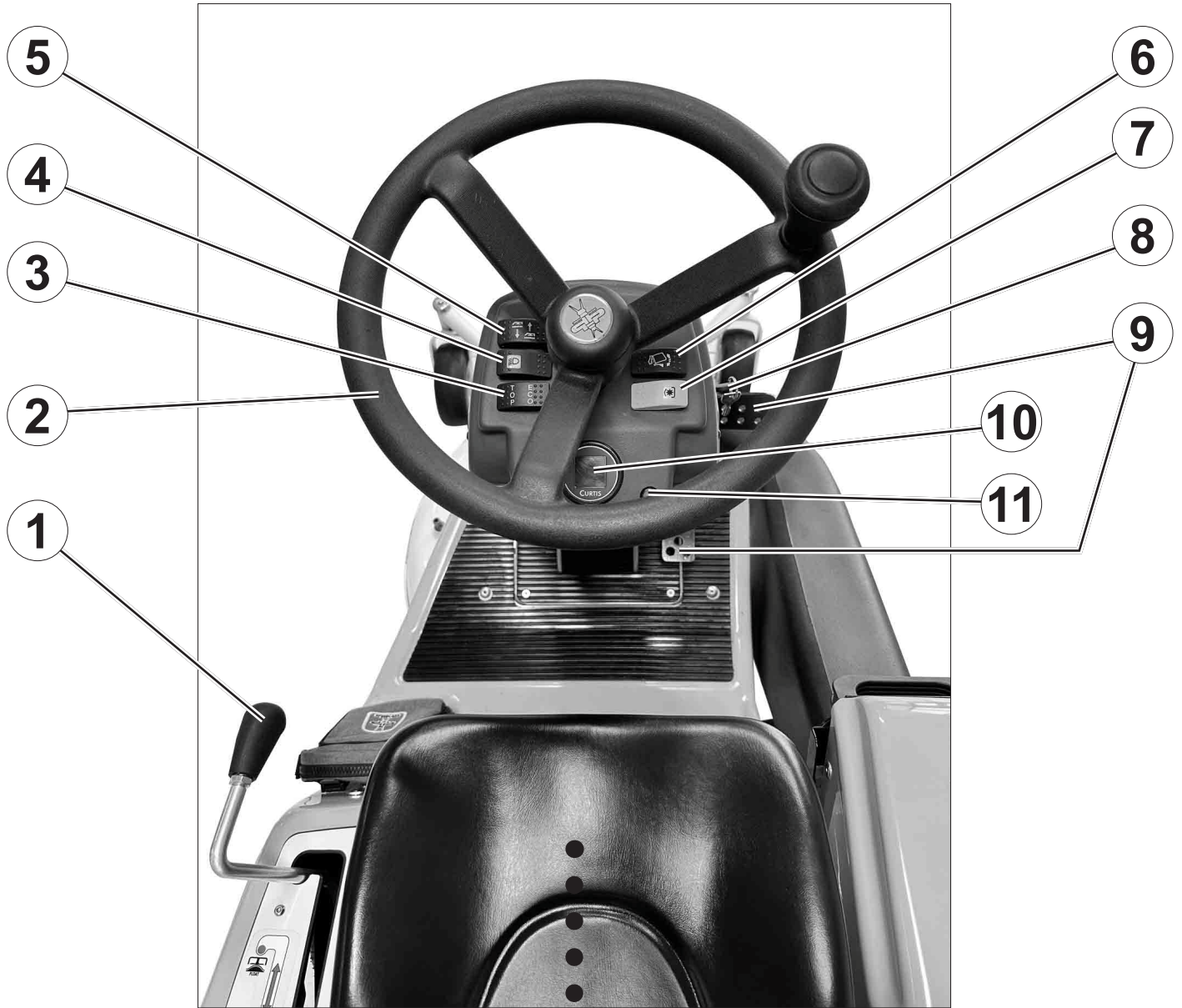


Lifting/floating of the cutting deck



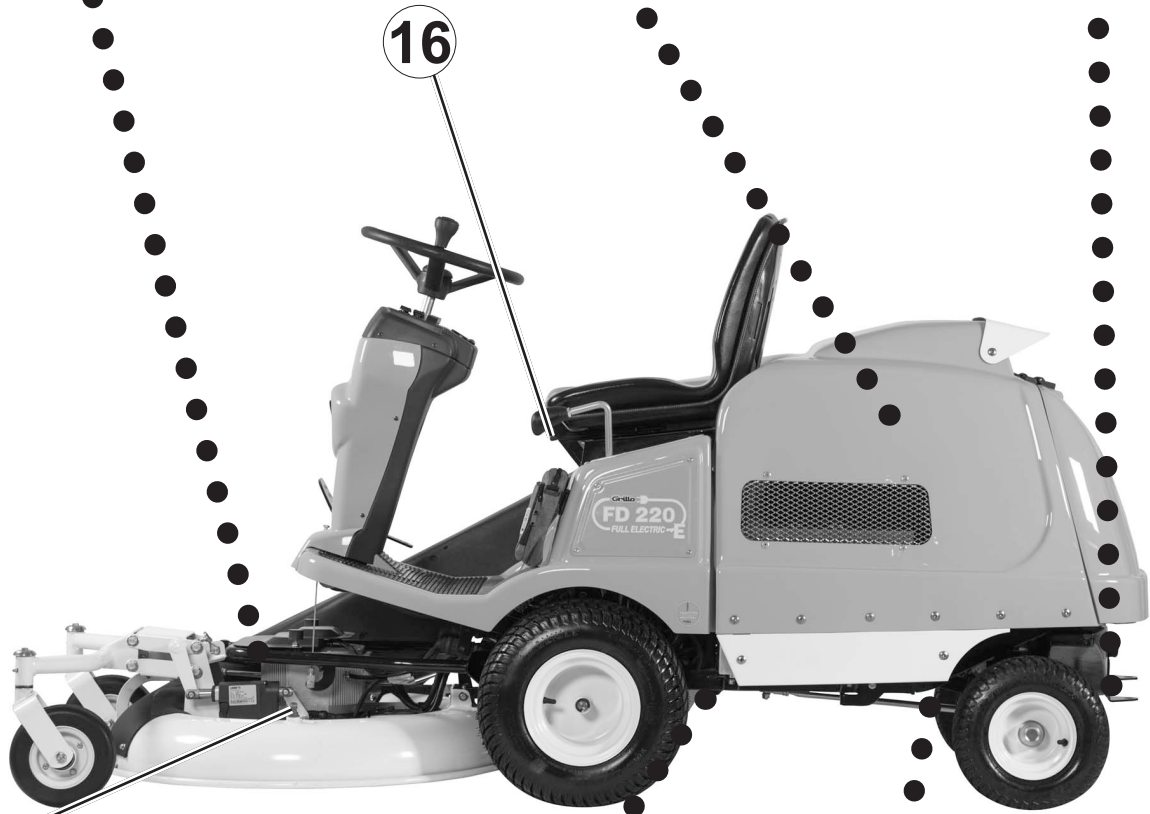
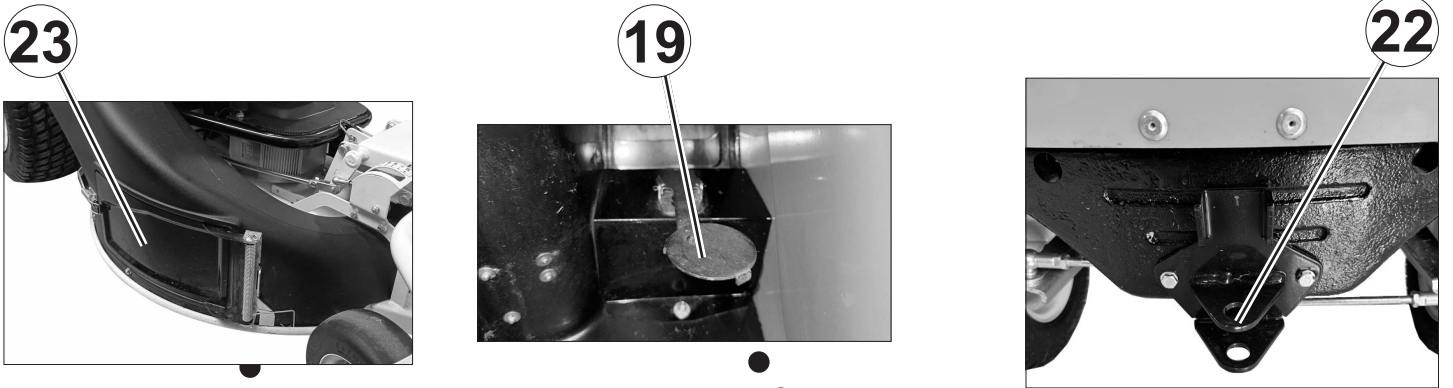
Grass catcher manual release

7. IDENTIFICATION OF MACHINE CONTROLS AND FUNCTIONS

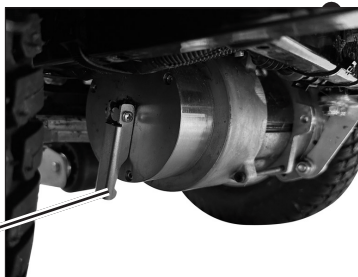


1. CUTTING DECK LIFTING/FLOATATION LEVER
2. STEERING WHEEL
3. ECO/TOP BUTTON
4. WORKLIGHT BUTTON
5. CUTTING HEIGHT ADJUSTMENT BUTTON
6. GRASS CATCHER TIPPING BUTTON

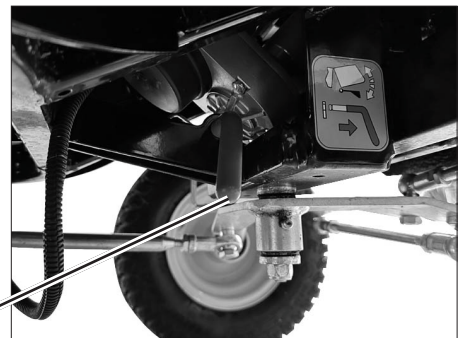
7. PTO BUTTON
8. STARTING KEY
9. FORWARD/REVERSE TRAVEL PEDAL
10. DISPLAY
11. HORN BUTTON
12. CHARGING SOCKET



17



18



20

- 13. BATTERY CONNECTION TO MACHINE ELECTRICAL SYSTEM
- 14. FRONT WHEEL GROUND PRESSURE ADJUSTMENT KNOB
- 15. SEAT SUPPORT ROD
- 16. SEAT ADJUSTMENT LEVER
- 17. WASHING HOSE CONNECTION NOZZLE
- 18. PARKING BRAKE DEACTIVATION LEVER

- 19. FULL GRASS CATCHER PLATE
- 20. GRASS CATCHER ACTUATOR RELEASE LEVER
- 21. LIFTING POINTS
- 22. TOWING HITCH
- 23. CUTTING DECK INSPECTION HATCH

8. TECHNICAL SPECIFICATIONS

MODEL: FD 220E, fully electric lawnmower with front cutting deck and direct grass loading.

POWER SUPPLY: LiFePO4 lithium-ion battery.

ELECTRIC SYSTEM VOLTAGE: 48 V

BATTERY CAPACITY: 150 Ah

BATTERY AUTONOMY: up to 5 h autonomy depending on working conditions.

BATTERY RECHARGE: external battery charger, available with 35 A (5 h recharge) or 50 A (3 h recharge). Possibility of partial recharging.

DRIVE: electromechanical drive with 1.7 kW electric motor.

DRIVING SYSTEM: steering wheel with forward/reverse travel pedal.

SPEED: 10 km/h (6.2 mph) forward, 6 km/h (3.7 mph) reverse.

WHEELS: front 16x7.50-8 GARDEN (1.2 bar - 17 psi); rear 13x5.00-6 GARDEN (1.2 bar - 17 psi).

SEAT: sprung and adjustable.

STEERING WHEEL: mounted on steering column, with knob.

TURNING RADIUS: 30 cm

AUTOMATIC FEATURES: blade disengagement when the grass catcher is full, grass catcher door opening.

BRAKE: automatic parking brake. Possibility of manual movement of the machine via deactivation lever on drive.

GRASS CATCHER: 200 litre capacity with electrical tipping and ground discharge from the driving seat.

CUTTING DECK: single blade directly mounted on 10 kW (peak) electric motor, with side collection.

CUTTING HEIGHT: from 2.5 to 9 cm continuously variable with electric adjustment from the driver's seat.

CUTTING WIDTH: 80 cm

CUTTING MODE: TOP/ECO selectable by button.

ATTACHMENTS: mulching kit; side discharge kit.

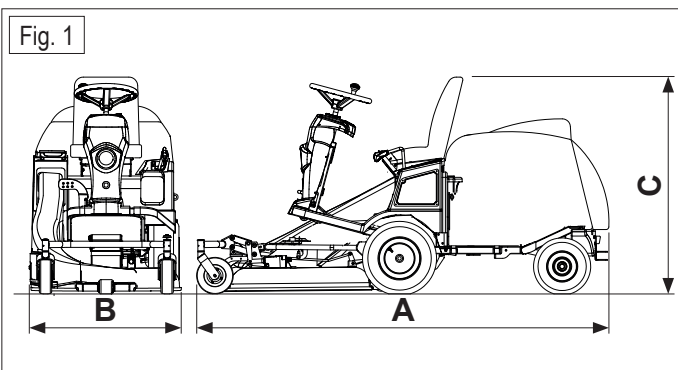
SIZE (fig. 1):

- Length (A): 234.5 cm

- Width (B): 86 cm

- Height (C): 114

WEIGHT (BATTERY INCLUDED): 316 kg



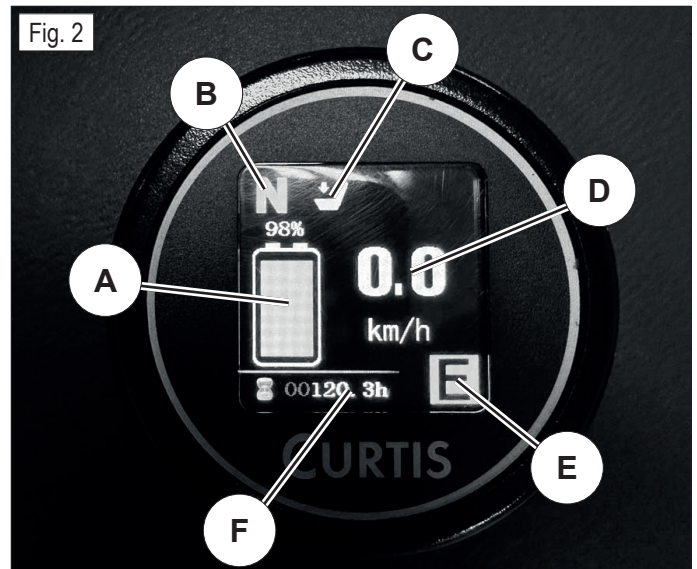
9. OPERATING INSTRUCTIONS

9.1 DISPLAY

The colour display shows the status of the machine. In detail (fig. 2):

- A. Battery charge status;
- B. Pedal position;
- C. Absence of operator / low battery (<7%);
- D. Speed in km/h;
- E. Cutting mode;
- F. Machine hours.

Safety warnings will also appear on the display, for further details see 10.1 Electronic safety.



9.2 BATTERY

Check the battery charge status on the display:

- Between 100% and 7%, the battery level is indicated in green;
- Between 7% and 1% the battery level is indicated in yellow and the red flashing battery symbol appears on the display;
- Below 1% the PTO switches off and the display shows the message LOW BATTERY.

9.3 USING THE BATTERY CHARGER

The battery charger for the FD 220E is external to the machine and is available in two types, both of which can be connected to the 220V domestic mains:

- 35 A for 5 h standard charging;
- 50 A for 3 h fast charging.

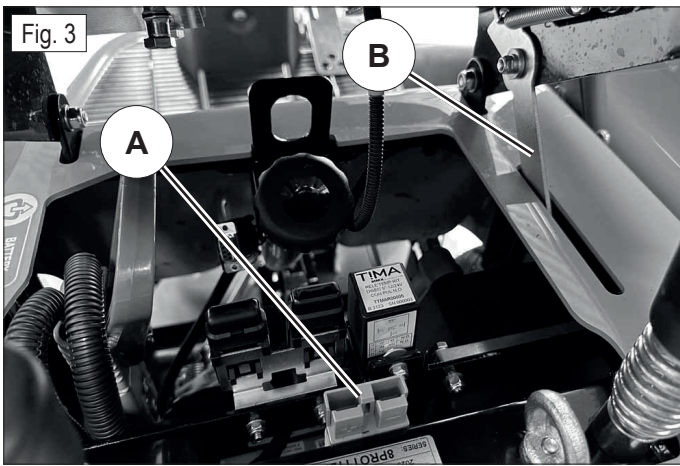
The charging socket on the machine is located under the seat (fig. 3/A).

To proceed with recharging it is necessary to:

- Tip over the seat and connect the charging socket;
- Connect the charger to the power supply and wait until charging is complete. Partial recharging is also possible.

⚠ CAUTION: the seat has an automatic lock (fig. 3/B) that will prevent the charging socket from being pinched and will inhibit accidental activation of the machine.

🔧 IMPORTANT: in the event of long periods of storage, periodically monitor the state of charge of the battery to prevent the level from dropping to a deep discharge. The battery could reach a state of deep discharge, with no possibility of reactivation by recharging. In this case, the service workshop should be contacted.



9.4 FORWARD AND REVERSE TRAVEL PEDAL

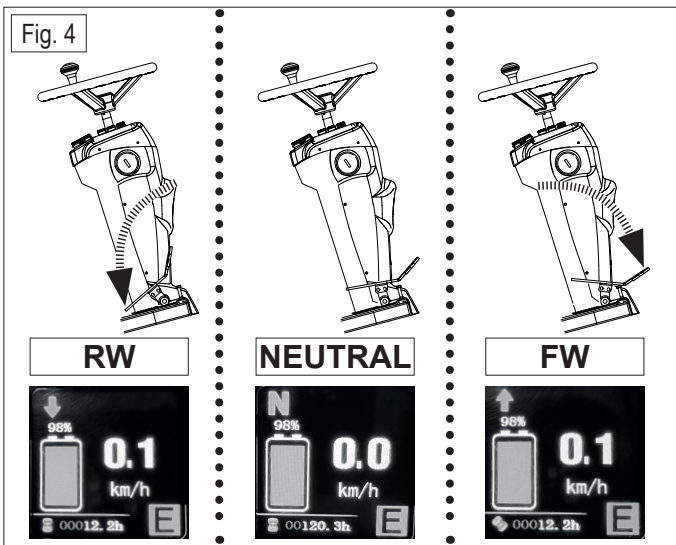
The travel pedal automatically returns to the neutral position. Movement of the machine in forward or reverse is only permitted with the operator seated in the driving seat.

When the travel pedal is pressed, the machine will move and the parking brake is automatically disengaged.

The pedal status is indicated on the display.

- In the neutral position, the machine will remain braked (unless the parking brake has been manually deactivated) and the letter N is shown on the display (fig. 4/NEUTRAL);
- By pressing the pedal forwards, the machine will move forward and a forward arrow with the speed indication is shown on the display (fig. 4/FW);
- If the pedal is pressed backwards, the machine will reverse and a warning buzzer will sound, and a backwards arrow with speed indication is shown on the display (fig. 4/RW).

During forward/reverse travel, it is possible to produce a braking effect by pressing the pedal in the reverse direction (i.e. in reverse if driving forward and vice versa). The braking effect will be proportional to the stroke of the pedal in the opposite direction: light pressure will produce gentler braking, while for immediate braking the pedal must be pressed firmly in the opposite direction.



9.5 TOP/ECO CUTTING MODES

Two cutting modes can be selected using the TOP/ECO button (fig. 7/A):

- TOP mode allows maximum performance for tough grass conditions.
- ECO mode, highlighted on the display with the letter E (fig. 2/E), is optimal for collecting foliage and can be used for lighter grass. This saves energy and extends the charge duration.


9.6 CHECKS TO BE CARRIED OUT BEFORE STARTING THE MACHINE


Check that:

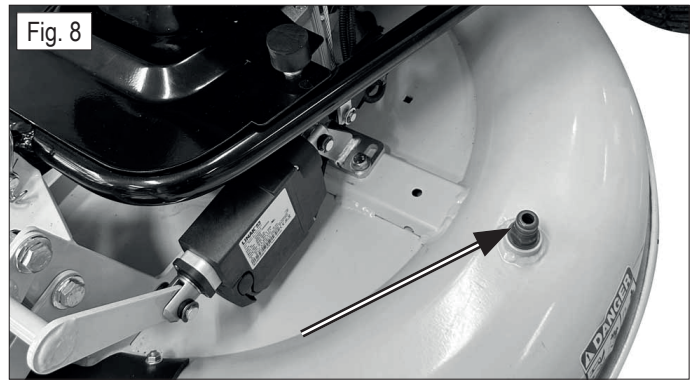
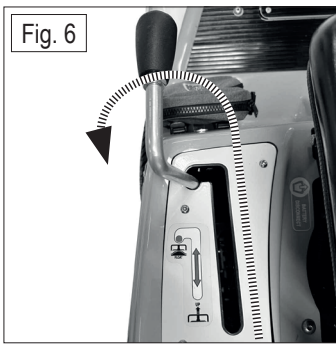
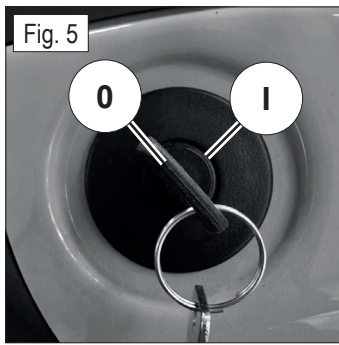
- The travel pedal is in the neutral position;
- The charging socket is not connected to the machine;
- The grid inside the basket is well clean;
- The cutting deck and loading chute are well clean and correctly fitted;
- The battery is charged.

9.7 STARTING THE MACHINE

1. Adjust the seat and carry out the necessary checks as described above;
2. Turn the key one position (fig. 5/I); the display will be activated and the machine is switched on;
3. Lower the cutting deck and move the lever to the FLOAT position (fig. 6);
4. Adjust the cutting height using the button (fig. 7/C);
5. Select the TOP/ECO cutting mode using the button (fig. 7/A);
6. Engage the PTO by pressing and holding the button for 1 second (fig. 7/E);
7. Always check the operation of the PTO safety devices before starting work (see 10.1 Electronic safety) i.e. that:
 - The PTO disengages automatically by getting up from the seat;
 - The PTO disengages automatically when the cutting deck inspection hatch is opened;
 - The blade stops in less than 5 seconds;
8. Press the travel pedal gently (fig. 4/FW) and start work. Use the lower part of the pedal (fig. 4/RW) for reverse;
9. To stop, simply release the travel pedal which will return to the neutral position (fig. 4/NEUTRAL);
10. When the grass catcher is full, a sensor automatically disengages the blade rotation, preventing clogging of the loading chute. The display will show the message CATCHER FULL (fig. 13).
11. In case cutting is to be continued with the grass catcher full, the blade can be reactivated by holding down the PTO button. This will allow cutting of small areas to be completed;
12. To discharge the grass press the grass catcher tipping button. The display will show the message CATCHER OPEN (fig. 12). If necessary, the handle at the end of the grass catcher can be used from the driving seat to better empty the grass catcher.

 **IMPORTANT:** during mowing, the cutting deck lifting lever must be kept in the FLOAT position (fig. 6).

 **IMPORTANT:** always engage the blade a few metres before entering the area to be mowed. This cleans the cutting deck and the loading chute and does not strain the blade motor.



When finished, clean the grass catcher grid as well.
After using water, run the cutting deck blade for a few minutes to ensure that all components have dried.

9.10 USEFUL RULES FOR CORRECT USE

The machine can work even under severe conditions without clogging problems. A few measures must be taken and all devices must be correctly adjusted.

- Before starting work, check that the cutting deck and the loading chute are perfectly clean and free of grass and dirt;
- Check the ground before mowing: ensure there are no stones, twigs, roots or foreign bodies;
- When mowing adjust the forward speed according to the height of the grass. Be careful and slow down when coming across tall or dense grass;
- Check that the end knives are not worn, the cutting edges are sharp and the vanes are not damaged. Sharpen the mower blade frequently; the cut will be better and the electric motor will run at lower consumption (ref.14.1 Sharpening the blade).
- Keep the grid inside the grass catcher clean;
- If the grass is wet or very tall, do not mow with the cutting deck in the lowest position, but rather set it to an intermediate position and proceed at a moderate speed;
- Engage the blade a few metres before entering the area to be mowed.

IMPORTANT: the blade must be fitted correctly.

CAUTION: only use the cutting deck lifting lever for short travel distances, to overcome obstacles, to step on kerbs or curbs.

9.11 SLOPING TERRAIN

Steep terrain should be negotiated in uphill/downhill direction as far as possible, taking great care when changing direction and ensuring that the wheels uphill do not encounter any obstacles (stones, branches, roots, etc.) that could cause the machine to lose control. If the drive wheels tend to slip, use the lever to lift the cutting deck slightly in order to put more weight on the drive wheels and thus have more traction. Consider the various situations and be careful on damp ground and wet grass as the machine may slip. When driving downhill, start at low speed and avoid driving over dry or cut grass as the wheels may lose grip.

CAUTION: avoid slopes that are too steep; comply with the safety limits set out in the manual max 15° (26%).

9.8 WORK CONCLUSION

Once finished mowing, disengage the blade and empty the grass catcher. Then:

1. Remove the foot from the travel pedal to stop. The parking brake will engage automatically;
2. If the cutting deck was raised, lower it to the ground;
3. Switch the machine off by turning the key to the STOP position (fig. 5/0). The display will show the message OFF, and the machine shutdown procedure will be completed when the display switches off;
4. Finish by cleaning the machine.

9.9 ORDINARY MACHINE CLEANING

At the end of each job, proper cleaning ensures a long service life for the machine and prevents most common inconveniences.

The best way to clean the machine is with compressed air or a blower/vacuum cleaner.

If necessary, use water for the body parts, the cutting deck, the loading chute and the grass catcher; avoid wetting directly the electrical sensor inside the grass catcher and the one near the cutting deck inspection hatch.

CAUTION: always wear appropriate clothing and goggles before starting any cleaning work.

IMPORTANT: keep the blade motor, battery and internal parts of the electrical system clean and free from grass, leaves and dust.

IMPORTANT: to avoid the risk of malfunction and damage, do not use a pressure washer on the electrical components.

WASHING THE CUTTING DECK

Only and exclusively for washing the cutting deck, and in any case observing all other general safety instructions, this operation must be carried out with the machine switched on.

The machine must be placed on a solid floor, then lower the cutting height to the minimum, plug the connection nozzle (fig. 8) into the water hose and allow the water to run for a few minutes with:

- The operator sitting in the driver's seat;
- The machine switched on;
- The travel pedal in neutral;
- The blade engaged.

10. SAFETY DEVICES

10.1 ELECTRONIC SAFETY

The ECUs of the machine carry out safety checks and control-related alarms appear on the display.

Based on the signals of the microswitches located at the control points, the ECUs inhibit or enable travel and/or cutting operations, for the safety of the machine and the operator.

Specifically, always remember that:

- The machine does not travel if:
 - The operator is not seated in the driving seat (symbol on display - fig. 9);
 - The travel pedal is not in the neutral position before the operator is seated in the driving seat (NEUTRAL - fig. 10).
- The PTO does not engage if:
 - The operator is not seated in the driving seat (symbol on display - fig. 9);
 - The cutting deck inspection hatch is open or not properly closed (COVER OPEN - fig. 11);
 - The grass catcher is open (CATCHER OPEN - fig. 12);

If the grass catcher is full (CATCHER FULL - fig. 13) the PTO will be disengaged, stopping cutting. In case of small areas to be completed, the PTO can be reactivated by holding down the PTO button (fig. 7/E).

For troubleshooting of further warnings, see 15. Troubleshooting guide.

If the alarm is still active after its cause has been resolved, the memory of the ECU must be cleared by switching the machine off and on again

10.2 PARKING BRAKE

The FD 220E is equipped with a electromechanical drive system, therefore in order to brake it is sufficient to release the travel pedal. The parking brake is automatically engaged whenever the pedal is released in neutral.

If the parking brake is deactivated via the lever on the electromechanical drive axle (see 19. Towing the machine off), the machine may move forward (by inertia or on a slope) even when the drive pedal is in the neutral position. In this case the machine will warn of the fault (BRAKE - fig. 14).

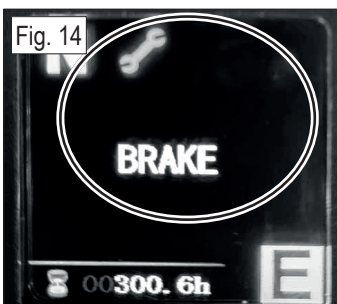
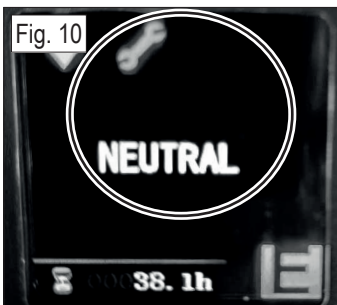
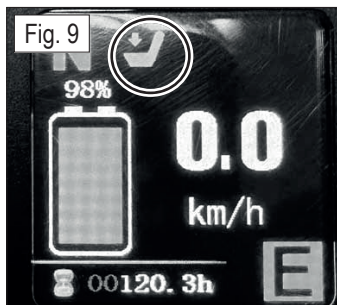
⚠ CAUTION: by manually deactivating the parking brake, the effectiveness of the self-braking device is invalidated.

11. ORDINARY ADJUSTMENTS

11.1 SEAT ADJUSTMENT

Before starting work, it is recommended to position the seat in the most comfortable position and with the most control over the machine. To adjust the seat forwards or backwards, move sideways the lever on the left-hand side of the seat (fig. 15), then move the seat.

The seat can be tipped and a locking lever allows to keep it raised (fig. 3/B).



11.2 CUTTING HEIGHT ADJUSTMENT

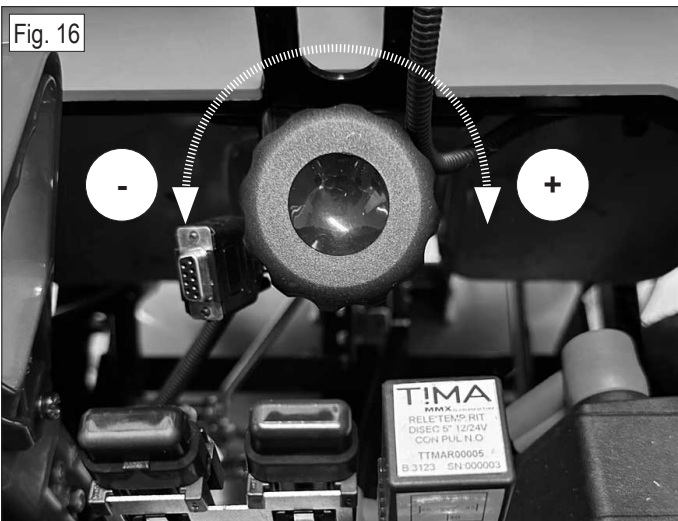
To adjust the cutting height use the button (fig. 7/C), pressing it on the right side to raise it and on the left side to lower it.

In the event of uneven ground, dips or bumps, it is advisable to operate the cutting deck in the highest cutting setting in order to avoid impact on the blade. To this purpose, there are two anti-scalp wheels on the cutting deck (one front and one rear).

⚠ IMPORTANT: during cutting, the cutting deck lifting lever must be kept in the FLOAT position (fig. 6), moving it all the way forward and resting it in the slot.

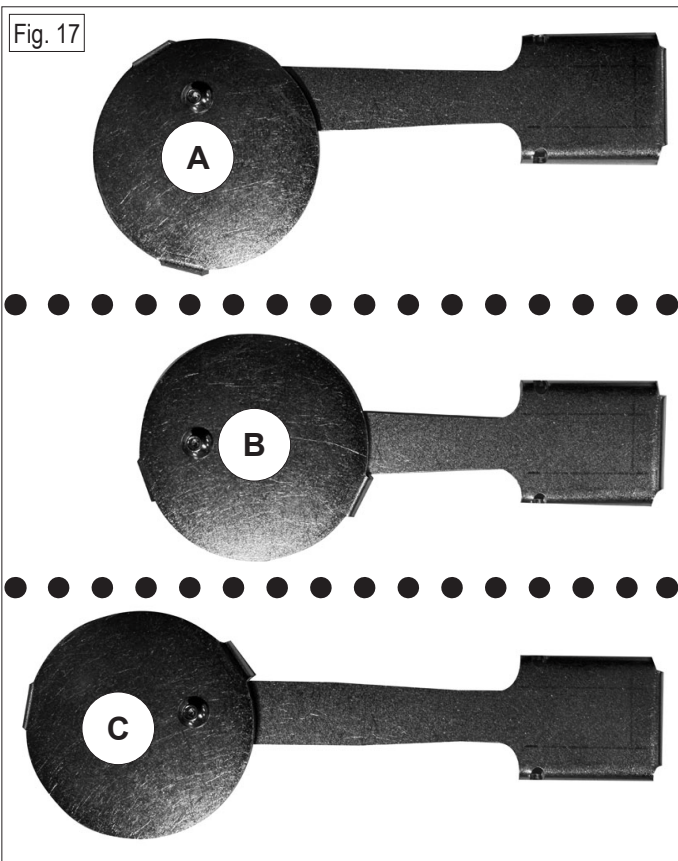
11.3 ADJUSTING THE GROUND PRESSURE OF THE FRONT WHEELS

The cutting deck is suspended at one end by an adjustable spring anchored to the machine frame. By turning the knob under the seat (fig. 16) it is possible to increase (by turning the knob clockwise) or decrease (by turning the knob anti-clockwise) the weight of the cutting deck transferred to the front wheels.



11.4 ADJUSTING THE FULL GRASS CATCHER MICROSWITCH

It is important to adjust the position of the plate according to the type of grass to be cut in order to ensure that the grass catcher is completely filled. Under normal cutting conditions, the plate should be adjusted to the middle position (fig. 17/A). It is recommended to turn it to the retracted position (fig. 17/B) in the case of wet or very tall grass, or to the extended position (fig. 17/C) in the case of short, dry grass or foliage.



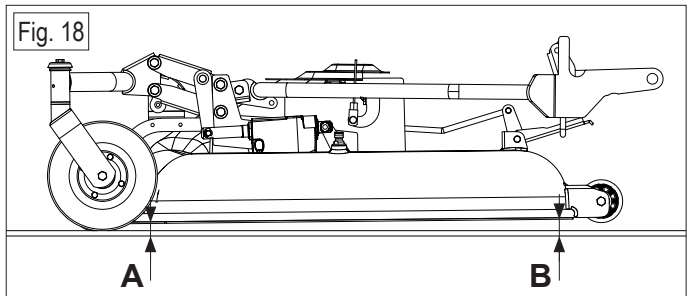
12. EXTRAORDINARY ADJUSTMENTS

⚠ CAUTION: the adjustment procedures described below require technical skills and expertise. It is advisable to contact an authorised Grillo centre to undertake these procedures.

12.1 ADJUSTING THE CUTTING DECK

Good planarity of the cutting deck is essential for an evenly mowed lawn. Place the lawnmower on a smooth, level surface, make sure the cutting deck lifting lever is in the FLOAT position (fig. 6) and lower the cutting height to the minimum. Then:

1. Check the correct tyre pressure (1.2 bar);
2. Check the distance of the edge of the cutting deck from the ground at the points indicated (fig. 18). In A the measurement must be 2/3 cm, in B it must be greater than A by about 1 cm;
3. If necessary intervene:
 - On the front wheel slots to adjust the difference in height between the left and right-hand sides (fig. 19);
 - On the adjuster on the cutting deck tie rod (fig. 20) to adjust the tilt.

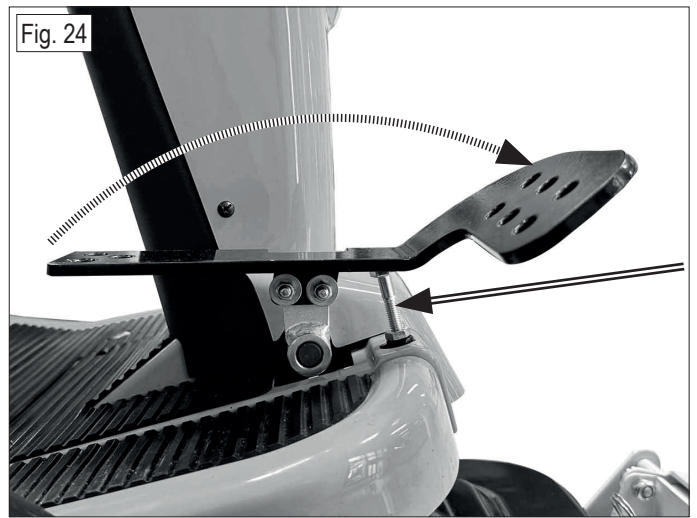
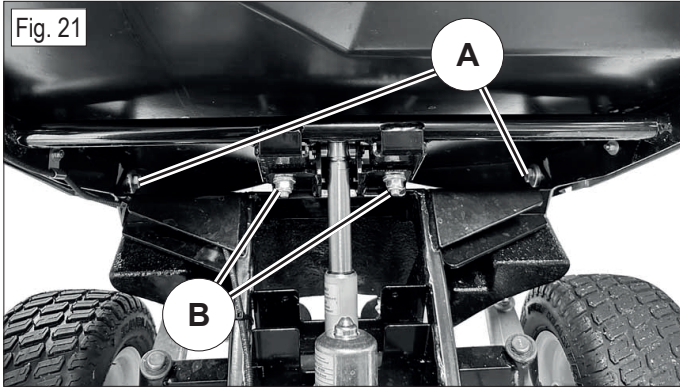


12.2 ADJUSTING THE GRASS CATCHER ALIGNMENT

For good operation, it is very important to ensure a perfect coupling between the grass catcher and the loading chute in the closed position.

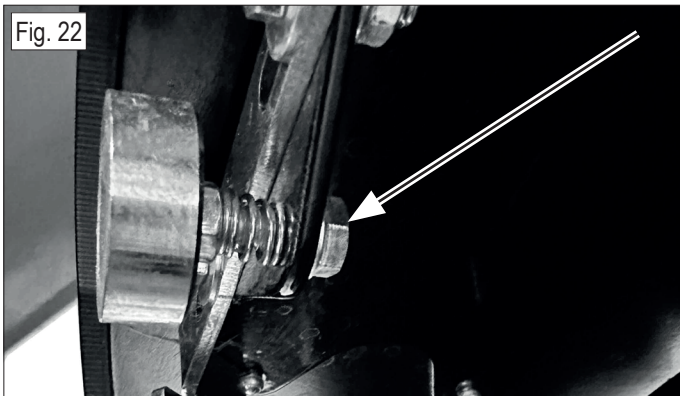
To do this, proceed as follows:

1. Bring the grass catcher into the fully closed position and check the coupling with the chute;
2. If the gasket does not seal properly or is too flattened, it is possible to move the grass catcher closer to or further away from the loading chute by loosening the bolts that secure it to the rear part (fig. 21/A);
3. If necessary, the position can also be adjusted on the plate where the actuator is hinged by loosening its fixing nuts (fig. 21/B).



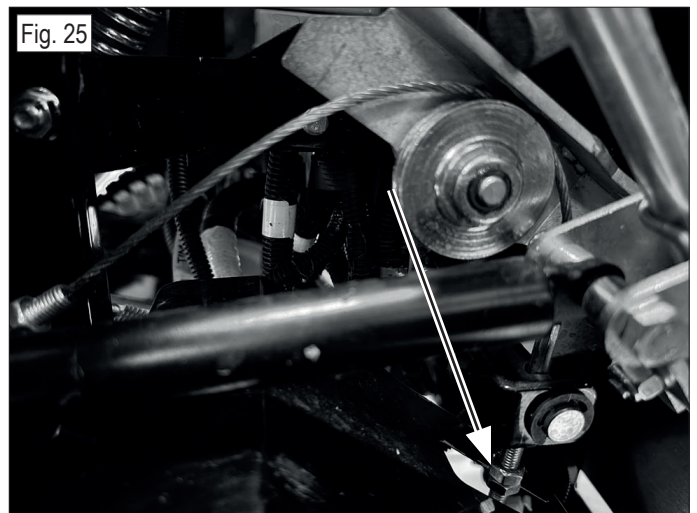
12.3 ADJUSTING THE GRASS CATCHER OPENING

The automatic door opening angle can be adjusted using the nut behind the magnet (fig. 22). By screwing and unscrewing the nut it is possible to change the distance of the magnet and thus anticipate or delay the opening of the grass catcher when discharging.



12.5 ADJUSTING THE CUTTING DECK LIFTING LEVER

The cutting deck lifting lever mechanism is visible by opening the side inspection panel of the machine or by removing the cowling for better accessibility. It is possible to change the point at which the lever starts to raise the cutting deck by screwing or unscrewing the nut on the cable end (fig. 25).




12.4 ADJUSTING THE TRAVEL PEDAL

The machine is set to reach a maximum speed of 6 km/h (3.7 mph) in reverse gear and 10 km/h (6.2 mph) in forward gear.

The adjustment of the travel pedal is to be carried out with the machine switched on and safely placed on stands, with the front wheels raised off the ground.

1. Reverse gear: adjust the position and inclination of the pedal using the fixing slots so that the maximum speed is 6 km/h when the pedal is fully pressed against the footrest (fig. 23);
2. Forward gear: adjust the height of the stop screw so that the maximum speed is 10 km/h when the pedal is fully pressed against the stop screw (fig. 24);
3. Neutral position: If the machine does not completely stop when the pedal is in neutral, contact the service workshop.

 **IMPORTANT:** the machine stops if the pedal is pressed further after reaching a speed of 10 km/h in forward or 6 km/ in reverse. For correct operation of the machine, the pedal must be adjusted so that no further stroke is left available once these speed values are reached.

13. ORDINARY MAINTENANCE AND LUBRICATION

⚠ CAUTION: if the machine or part of it has to be lifted, always use suitable tools such as supports and safety locks.

- Always disconnect the battery, wear appropriate clothing and work gloves before starting any cleaning, maintenance or repair work;
- Do not leave the machine in service without safety devices or lifted, in places accessible to inexperienced persons, especially children;
- Never dispose of any pollutant in the environment!
- Regular maintenance and correct lubrication help to keep the machine in perfect working order.

⚠ CAUTION: if lifting the machine, use the designated anchor points (fig. 42).

13.1 LUBRICATION

GREASE LUBRICATION POINTS

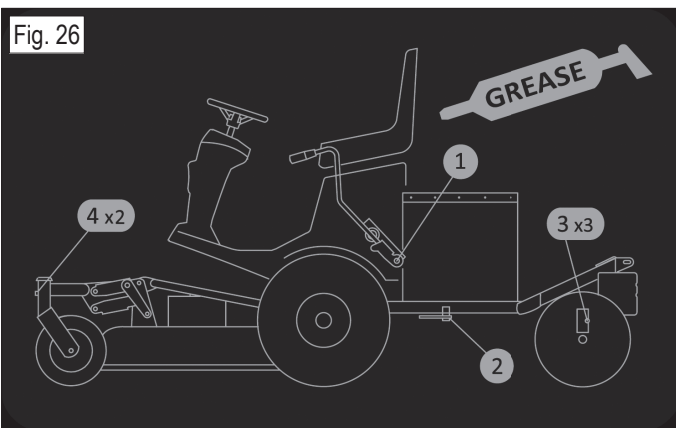
Consult the location of the lubrication points according to the diagram on the machine.

The diagram (fig. 26) shows the components to be lubricated (1 to 4) eventually followed by the number of grease nipples present.

The components are:

1. Cutting deck lifting lever pin, accessible by removing the side door;
2. Steering linkage;
3. Rear axle: right spindle, left spindle and centre linkage;
4. Left and right swivel wheel.

🔧 IMPORTANT: lubricate with grease every 40 hours all points shown in the diagram.



13.2 BATTERY MAINTENANCE

The battery does not require any special maintenance.

During long periods of storage, it is sufficient to recharge it periodically and prevent it from completely discharging. In the event of a deep discharge, the battery will not activate and the service workshop must be contacted. To recharge the battery, lift the seat and connect the battery charging socket (fig. 3/A) to the charger.

It is recommended to periodically check the good condition of the electrical cables that connect the battery, and always in the event of a workshop service. Check that they are secure, not marked by wear, and not in contact with sharp edges or sharp parts of the machine.

⚠ CAUTION: charging has to be carried out in a dry and ventilated area, free of sparks and heat sources.

⚠ CAUTION: do not tamper with the battery charging socket and only use the designated battery charger.

⚠ CAUTION: keep the battery away from flames or sparks.

🔧 IMPORTANT: do not attempt to start the machine if the battery is connected to the charger.

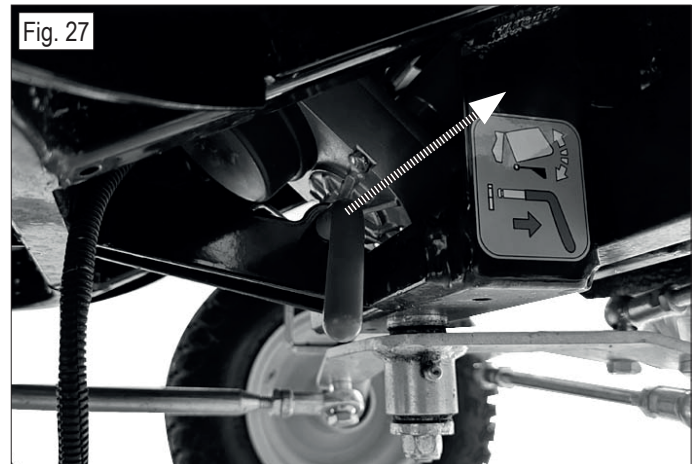
⚠ CAUTION: damage to electrical cables can cause short circuits and fire hazards.

13.3 MANUAL TIPPING OF THE GRASS CATCHER

In the event of machine failure or flat battery, the grass catcher can be tipped manually.

To do this, pull out the red lever (fig. 27) after removing the cotter pin at the other end. This releases the grass catcher actuator from the frame and allows the grass catcher to be tipped manually.

🔧 IMPORTANT: take care not to damage the electric actuator when manually closing the grass catcher.



14. EXTRAORDINARY MAINTENANCE

⚠ CAUTION: the operations contained in this chapter require technical skills and special equipment. It is advisable to contact an authorised Grillo centre.

⚠ CAUTION: carry out maintenance operations with the machine switched off and the battery disconnected using the battery disconnect handle.

14.1 CUTTING DECK MAINTENANCE AND COMPLETE DISASSEMBLY

Proceed as follows to remove the cutting deck:

1. Adjust the cutting height to the minimum;
2. Lift the cutting deck and place spacers (e.g. wooden blocks) approx. 7 cm thick underneath the body;
3. Deactivate the parking brake;
4. Lower the cutting deck completely and ensure that the cutting deck lifting lever is in the FLOAT position (fig. 6);
5. Disconnect:
 - The power connector of the blade motor (fig. 28/A);
 - The electrical connector (fig. 28/B);
6. Remove the retaining pin (fig. 28/C);
7. Move the machine away from the cutting deck.

To reassemble the cutting deck follow the procedure in reverse order.

⚠ CAUTION: when reassembling the cutting deck, check that the loading chute is correctly connected to the grass catcher, the central deck support (fig. 28/D) is inserted in the machine frame, and the electrical connections are properly plugged in.

14.2 ELECTRICAL SYSTEM MAINTENANCE

FUSES


The electrical system is protected by two main fuses, located in the fuse box near the battery:

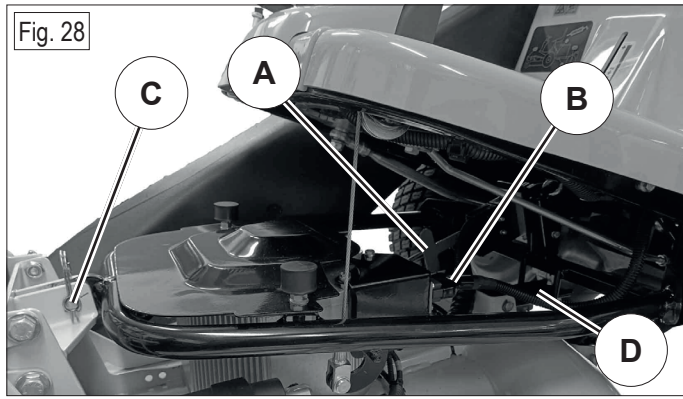
- The 200 A fuse protects the plant section of the blade motor (fig. 30/A);
- The 125 A fuse protects the plant section of the electromechanical drive (fig. 30/B).

There are also two other fuses, accessible by tipping the seat:

- The 25 A fuse protects the 48 V services (fig. 31/A);
- The 40 A fuse protects the 12 V services (fig. 31/B).

If electrical problems persist after the fuses have been replaced, contact the authorised service centre. Never attempt to undertake major repairs without having the necessary means and expertise.

 **IMPORTANT:** do not replace fuses with fuses of a different rating than those indicated in the manual and on the relevant decal.

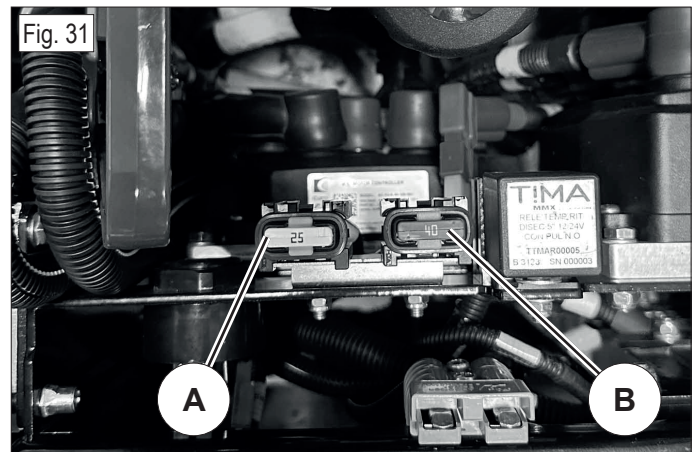
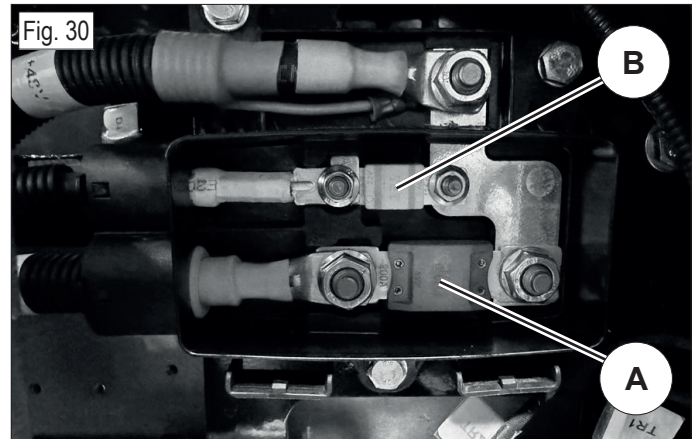
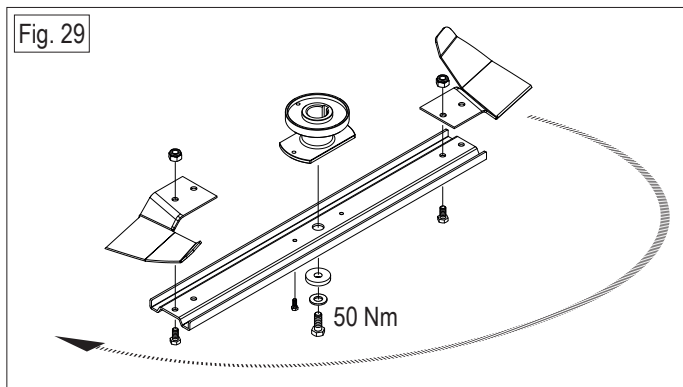


SHARPENING THE BLADE

An unsharpened blade tears up the grass, giving the lawn an unsightly appearance. It is necessary that sharpening is always carried out on both cutting edges of the blade evenly. Also, if the blade does not cut properly, it tends to become unbalanced, causing the lawnmower to vibrate.

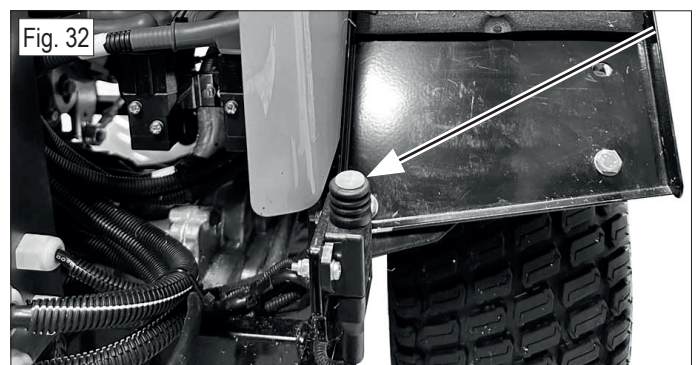
Pay attention to the direction of rotation and correct assembly of the end knives (fig. 29).

 **CAUTION:** never attempt to repair damaged blades. Damaged blades must be replaced.



GRASS CATCHER POSITION MICROSWITCH

A safety microswitch detects whether the grass catcher is in the working position (fig. 32). Otherwise the cutting deck does not operate. The microswitch is located next to the loading chute, to the right of the operator.

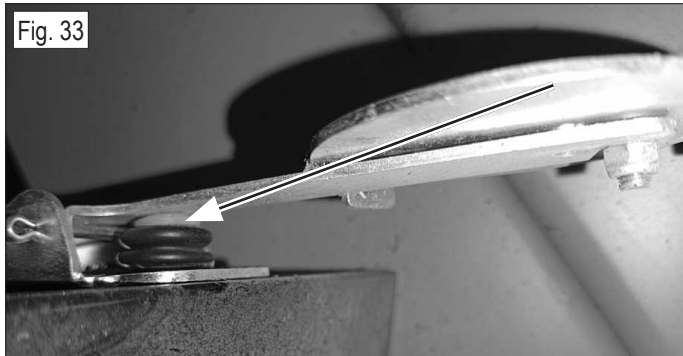


FULL GRASS CATCHER MICROSWITCH

The full grass catcher microswitch is fitted inside the grass catcher and is operated by an adjustable plate (fig. 33). It sends a signal to automatically disengage the blade when the grass catcher is full.

It is important to adjust the position of the adjustable plate according to the type of grass to be cut, to ensure that the grass catcher is completely filled (see 11.4 Adjusting the full grass catcher microswitch).

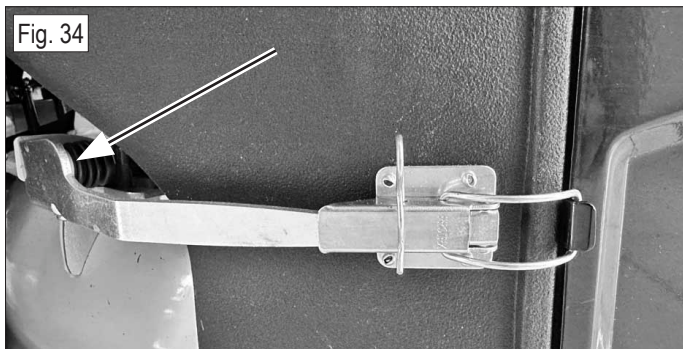
Fig. 33



CUTTING DECK INSPECTION HATCH MICROSWITCH

A safety microswitch detects whether the cutting deck inspection door is closed (fig. 34). Otherwise the cutting deck does not operate. The microswitch is located behind the loading chute, to the right of the operator.

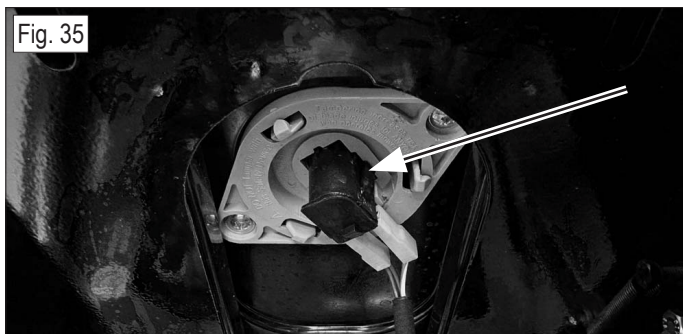
Fig. 34



OPERATOR PRESENCE MICROSWITCH

The operator presence microswitch is located under the seat (fig. 35) and detects the presence of the operator when seated in the driver's seat.

Fig. 35



ELECTRONIC CONTROL UNITS

The machine is equipped with two ECUs: one controls the electromechanical drive (fig. 36/A) and one controls the electric motor of the cutting deck (fig. 36/B). The ECUs manage the safety features and the start-up consent of the electric motors.

In the event of a malfunction, the ECUs emit a flashing sequence indicating the current error code, which can also be seen on the display. If an error occurs, see 15. Troubleshooting guide. If the alarm is still active after its cause has been resolved, the memory of the ECU must be cleared by switching the machine off and on again.

In the event of an unknown error, consult the service workshop, which can carry out diagnostics using the appropriate connector (fig. 36/C).

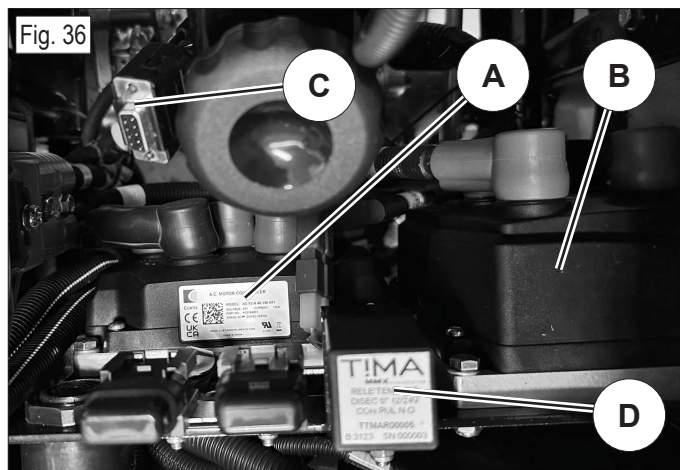
Each ECU has a label with its serial number.

A visual check of the ECUs can be carried out by tipping the seat. For a more detailed check, the cowling of the machine must be removed.

TIMER RELAY

The timer relay (fig. 36/D) is located under the seat. It allows the correct automatic switch-off procedure to be carried out when the machine is switched off. A malfunction of this relay prevents the machine from being safely switched off.

Fig. 36



14.3 BATTERY REPLACEMENT

In the event of malfunction, damage or deep discharge of the battery, contact the service workshop for replacement.

14.4 WHEEL MAINTENANCE

Use only TubeLess 4-ply (4PR) tyres in sizes 16x7.50-8 for the front and 13x5.00-6 for the rear.

Routinely check the tyre inflation pressure, which should be 1.2 bar (17 psi) for all four wheels.

Always ensure that the valve protection cap is in place. The purpose of the cap is to prevent foreign bodies from entering the valve, damaging it and causing pressure loss; always tighten the cap by hand.

In the event of impacts against curbs or other obstacles, it is important to visually check the condition of the tyres: a bulge in the sidewall, for example, may indicate an internal structural damage that would make the tyre unusable.

15. TROUBLESHOOTING GUIDE

FD 220E - TROUBLESHOOTING GUIDE		
PROBLEM	CAUSE	SOLUTION
The machine does not switch on	Battery not properly connected or drained	- Check that the battery is correctly connected to the machine via the red handle - Check the charge of the battery using the battery charger
	25 A fuse not correctly inserted, missing or damaged	- Check the integrity of the fuse and correct insertion (fig. 31/A)
The machine does not travel when the pedal is pressed	No operator present (symbol shown on display)	- Sit correctly in the driving seat to activate the microswitch
	Error NEUTRAL - The pedal is not in neutral position before the operator sits down	- Check that the pedal is in neutral position
	Error NEUTRAL - Pedal pressed down over 10 km/h during forward travel or 6 km/h in reverse	- Adjust the travel pedal end stops (see 12.4)
The PTO does not engage despite the machine being switched on and the operator present	Error COVER OPEN - The cutting deck inspection hatch is open or not properly closed	- Close the cutting deck inspection hatch, lock the lever and insert the cotter pin (fig. 34)
	Error COVER OPEN - The microswitch connector is not correctly plugged in	- Check the correct connection of the plug (fig. 28/B)
	Error COVER OPEN - Defective microswitch	- Replace the microswitch
	Error CATCHER OPEN - The grass catcher is open or not fully closed	- Completely close the grass catcher with the button
	Error MOTOR STALL Error S 3,7 - No power connection to the blade motor	- Check the correct connection of the plug (fig. 28/A)
	Error S 2,9 - Temperature sensor not correctly plugged in	- Check the correct connection of the plug (fig. 28/B)
	Error S 3,6 - Encoder sensor not correctly plugged in	- Check the correct connection of the plug (fig. 28/B)
The cutting height adjustment does not work	Presence of an obstruction on the blade	- Free the blade from obstructions
	No connection of the electric actuator	- Check the correct connection of the plug (fig. 28/B)
	Defective electric actuator or damaged cable	- Replace the electric actuator or the cable
The grass catcher tipping does not work	Defective button	- Replace the button
	No connection of the electric actuator	- Check the correct connection of the plug
	Defective electric actuator	- Replace the electric actuator
Drop in motor efficiency during cutting	Defective button	- Replace the button
	High forward speed in relation to the cutting height or lawn conditions	- Reduce the forward speed - Increase the cutting height - Switch from ECO to TOP cutting mode
	Clogging of the loading chute	- Clean the loading chute and the cutting deck - Clear the grass catcher grid - Adjust the full grass catcher microswitch
The blade motor shuts down	Error CATCHER FULL - The grass catcher is full	- Empty the grass catcher
	Error CATCHER FULL - Defective microswitch	- Replace the microswitch
	Presence of an obstruction on the blade	- Free the blade from obstructions
	Error MOTOR STALL Error MOTOR OVERTEMP Error ECU OVERTEMP - Blade motor overload	- Reduce the forward speed - Increase the cutting height
The parking brake does not engage automatically	Error BRAKE - The parking brake is disengaged	- Reactivate the parking brake using the lever on the drive

FD 220E - TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
Irregular cutting and insufficient collection	Incorrect inclination of the cutting deck	- Check tyre pressure and restore the correct inclination of the cutting deck
	Blade inefficiency	- Check the correct fitting of the blade and the end knives; - Sharpen or replace the end knives
	High forward speed in relation to the cutting height or lawn conditions	- Reduce the forward speed - Increase the cutting height - Switch from ECO to TOP cutting mode
	Clogging of the loading chute	- Clean the loading chute and the cutting deck - Clear the grass catcher grid - Adjust the full grass catcher microswitch
Abnormal vibrations during operation	Unbalanced blade	- Balance or replace the end knives if damaged - Check the fixing bolts of the end knives and tighten any loose ones

⚠ CAUTION! If problems persist after carrying out the actions described in this manual, contact the authorised service centre. Never attempt to carry out major repairs without having the necessary means and technical expertise.

IF YOU HIT A STONE OR ANOTHER FOREIGN BODY:

1. Disengage the blade;
2. Lift the cutting deck;
3. Switch off the machine;
4. Disconnect the battery;
5. Check the bolts securing the end knives and the integrity of the cutting deck;
6. Check that the foreign body has not entered the loading chute or is jammed.

16. MAINTENANCE SCHEDULE

FD 220E - MAINTENANCE SCHEDULE

MAINTENANCE ITEM	EVERY 8 HOURS	FIRST 20 HOURS	EVERY 40 HOURS	EVERY 50 HOURS
Check the sharpness and fixing of the blade		●		●
Grease lubrication			●	
Check the good condition of the electrical cables			●	
Check the tyre pressure (1.2 bar - 17 psi)			●	
Clean the machine	●			

● recommended task

17. STORAGE AND PROLONGED INACTIVITY

Store the machine in a dry place, protected from the elements. Clean the machine from soil and grass residues and if possible cover it with a tarpaulin. If the machine is not to be used for an extended period of time (more than 1 month), proceed as follows:

- Disconnect the battery cable;
- Lubricate all the joints according to the indicated points.

18. AVAILABLE ATTACHMENTS

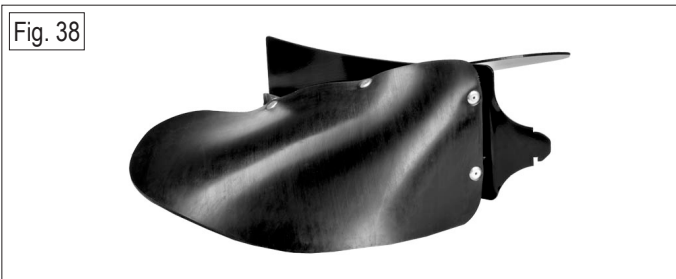
MULCHING KIT

It is used to cut and shred 10/12 cm tall grass. It is preferable to perform this operation with dry grass as the air circulation inside the cutting deck allows for better shredding. It is advisable not to stop the machine after cutting but to continue for a few minutes on the lawn already cut in order to discharge the grass from inside the cutting deck. The kit (fig. 37) consists of a plug for the chute and a mulching blade to replace the collection blade.



SIDE DISCHARGE KIT

If you do not wish to collect, the cutting deck is designed to accommodate the side discharge deflector (fig. 38). Release the catch on the hatch and insert the deflector, ensuring that it is securely locked.

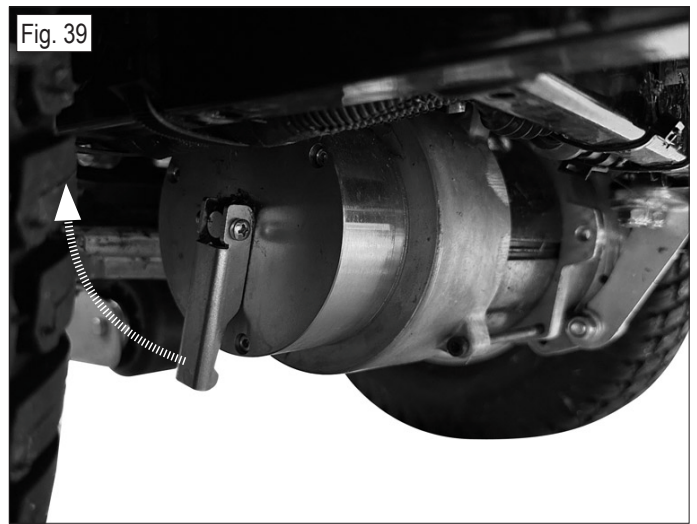


19. TOWING THE MACHINE OFF

With the machine switched off, the parking brake is automatically engaged.

To deactivate the parking brake, it is necessary to lift the lever (fig. 39). In this way it is possible to move the machine manually. To restore the automatic parking brake, simply turn the lever back down.

⚠ CAUTION: in this way the effectiveness of the braking device is invalidated.



20. TECHNICAL ASSISTANCE SERVICE

20.1 ASSISTANCE

This manual provides instructions for the use of the machine and for its routine maintenance.

For extraordinary maintenance, for all operations requiring technical skills and expertise, please contact your authorised Grillo dealer.

20.2 IDENTIFICATION DATA

If it is necessary to contact an authorised service centre, for maintenance information, always provide:

machine model

serial number

The machine's serial number plate is located on the front of the frame under the seat (fig. 40).

	Grillo S.p.A. CE UK CA CESENA - ITALY
Machine model	model: GRILLO FD220E
	cod. 8068FE / 2024 316 kg
Serial number	series 000000



We advise the customer to note down this additional information in the spaces below. It may be useful for the service department.

PURCHASE DATE

GRILLO DEALER

20.3 SPARE PARTS

It is recommended to use only genuine spare parts to ensure product safety and durability.

20.4 WARRANTY

The warranty is provided in the manner and within the limits specified by current law. The retailer must hand over the machine's warranty certificate to the end customer, printing a copy of the registration from the Grillo website. Transport, servicing and wear parts remain at customer's expense. Any tampering or improper use not specifically authorised by Grillo will invalidate the warranty.

Battery, blade motor and electromechanical drive follow the terms of their respective manufacturers.

20.5 HOW TO ORDER SPARE PARTS

Contact our authorised centres.

Please indicate the serial number of the machine and the code of the component to be replaced.

It is possible to identify the part number by consulting the Grillo website: the spare parts tables for the machine will be available by entering the serial number.


21. TRANSPORT WARNINGS

TOWING HITCH

This machine can be used for towing only occasionally and with certain limitations.

The towing hitch is a service to be used occasionally and consciously, therefore the following limitations must be observed:

- Weight of the towed mass (on wheels) less than 130 kg;
- Non-continuous towing (max 300 m without stopping) on a plain or light slope (max 10%).

 **IMPORTANT: use beyond the limits may impair or cause serious damage to the electromechanical drive.**

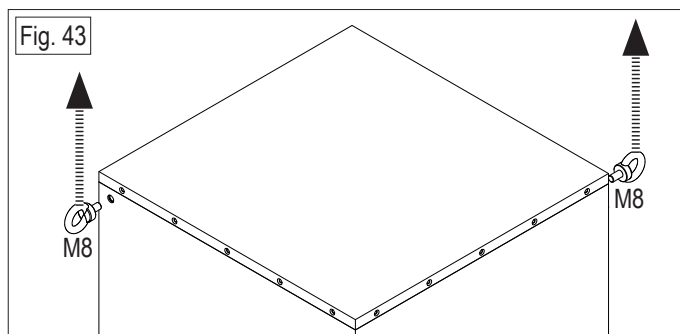
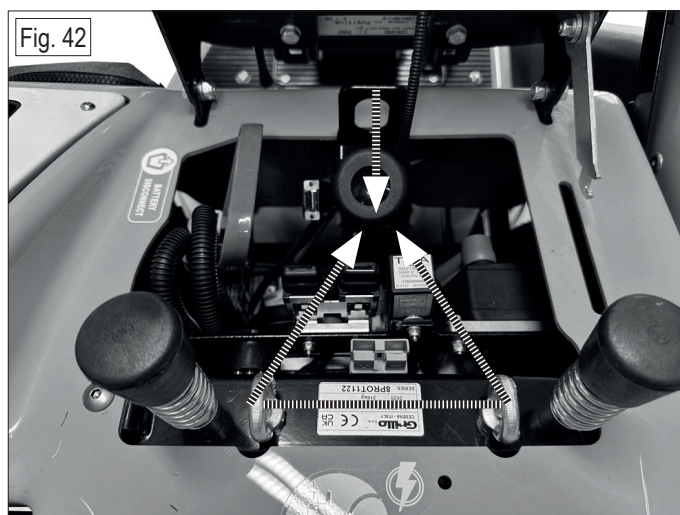
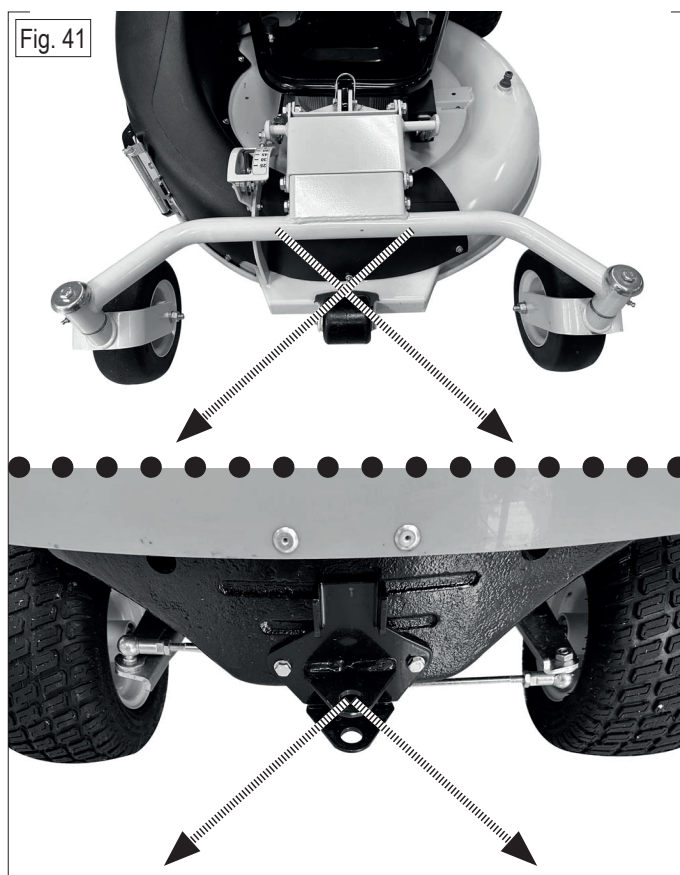
LIFTING AND TRANSPORT

If the machine is to be transported on a truck or trailer, lower the cutting deck, switch off the machine and secure it to the means of transport using ropes, cables or chains (fig. 41). When lifting, the ropes can be hitched at the point indicated by the arrows (fig. 42).

If the battery alone is to be lifted, use screws or eyebolts at the anchor points (fig. 43).

Check that the crane, hoists and ropes have sufficient lifting capacity. The total weight of the machine is 316 kg; the weight of the battery alone is 65 kg.

 **IMPORTANT: fully lower the cutting deck when the machine is lashed for transport.**



22. DISPOSAL

Waste products or other consumable parts can cause harm to people, animals and the environment. They must therefore be disposed of properly. Contact a recycling centre or your retailer for information on proper disposal.



Grillo S.p.A. Via Cervese 1701- 47521 Cesena (FC)- Italy
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**DECLARATION OF CONFORMITY / DICHIARAZIONE DI CONFORMITÀ
/ DÉCLARATION DE CONFORMITÉ / KONFORMITÄTSEKRLÄRUNG / DECLARACIÓN DE CONFORMIDAD**

The undersigned / lo sottoscritto / Je soussigné / Der Unterzeichner / Yo suscrito

Ing. Andrea Pinza

as legal representative of: / in qualità di legale rappresentante della ditta: / en qualité de représentant légal de la société: / als rechtlicher Vertreter der Firma: / en calidad de representante legal de la empresa:

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declare that the following machinery: / dichiaro che la macchina di seguito indicata: / déclare que la machine suivante: / Hiermit erkläre ich, dass folgende Maschine: / declara que la siguiente máquina:

Model Modello Modèle Modell Modelo	Function Funzione Dénomination Bezeichnung Función	From serial number Dal numero di serie Du numéro de série Ab Seriennummer Desde número de serie
FD 220E	Lawnmower / Rasaerba / Tondeuse / Rasenmäher / Cortacésped	752959

fulfils all the relevant provisions of the following directives: / è conforme a tutte le disposizioni pertinenti delle seguenti direttive: / satisfait à l'ensemble des dispositions pertinentes des directives suivantes: / allen einschlägigen Bestimmungen folgender Richtlinien entspricht: / cumple todas las disposiciones pertinentes de las siguientes directivas:

CE		UK CA	
2006/42/CE 2000/14/CE 2014/30/UE	UNI EN ISO 5395	S.I. 2008 No. 1597 S.I. 2001 No. 1701 S.I. 2016 No. 1091	EN ISO 5395

Sound power level / Potenza sonora / Niveaux sonores / Schalleistung / Potencia acústica

Model Modello Modèle Modell Modelo	Cutting width Larghezza di taglio Largeur de coupe Schnittbreite Ancho de corte	Measured sound power level Potenza sonora misurata Puissance sonore mesurée Gemessene Schalleistung Potencia acústica mesurada	Guaranteed sound power level Potenza sonora garantita Puissance sonore garantie Garantierte Schalleistung Potencia acústica garantizada	Uncertainty Incertezza Incertitude Unsicherheit Incertidumbre
FD 220E	80 cm	95 dBA	96 dBA	1 dBA

Values determined according to / Valori determinati in accordo a / Niveaux sonores selon / Werte bestimmt gemäß / Valores determinados conforme a
2000/14/CE - VI.1

Measure sound pressure at the operator's ear / Pressione sonora misurata all'orecchio dell'operatore /
Niveaux sonores au niveau des oreilles de l'utilisateur / Gemessener Schalldruck am Ohr des Nutzers / Presión acústica medida a la oreja del usuario

Model Modello Modèle Modell Modelo	Sound pressure Pressione sonora Niveau sonore Schalldruck Presión acústica	Uncertainty Incertezza Incertitude Unsicherheit Incertidumbre
FD 220E	80 dBA	1 dBA

Vibrations / Vibrazioni / Vibrations / Schwingungen / Vibraciones

Model Modello Modèle Modell Modelo	Whole body Corpo intero Au corps entier Gesamter Körper Cuerpo entero	Uncertainty Incertezza Incertitude Unsicherheit Incertidumbre	Hand/arm Mano/braccio Main/bras Hand/Arm Mano/brazo	Uncertainty Incertezza Incertitude Unsicherheit Incertidumbre
FD 220E	0.18 m/s ²	0.05 m/s ²	2.14 m/s ²	0.10 m/s ²

Juridical person authorised to compile the technical file: / Persona giuridica autorizzata a costituire il fascicolo tecnico: / Personne morale autorisée à constituer le dossier technique: / Juristische Person, die bevollmächtigt ist, die technischen Unterlagen zu erstellen: / Persona juridica facultada para elaborar el expediente técnico:

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Person empowered to draw up the declaration on behalf of the manufacturer: / Persona autorizzata a redigere la dichiarazione a nome del fabbricante: / Personne ayant reçu pouvoir pour rédiger cette déclaration au nom du fabricant: / Ermächtigte Person zur Ausfertigung der Erklärung im Namen des Herstellers: / Persona apoderada para redactar esta declaración en nombre del fabricante:

Ing. Andrea Pinza

GRILLO SPA – Via Cervese, 1701 – 47521 CESENA (FC) – ITALY

Managing Director / Amministratore Delegato / Directeur Général / Stellvertretender Geschäftsführer / Director Adjunto

Grillo S.p.A.

Ing. Andrea Pinza -

Andrea Pinza

Cesena, 22/04/2024

The spare parts catalogues are available on line at http://www.grilloagrigarden.co.uk/spare_parts_lists
Le tavole ricambi sono disponibili online all'indirizzo http://www.grillospa.it/tavole_ricambi
Les vues éclatées son disponibles en ligne sur http://www.grillofrance.fr/vues_eclatees
Die Ersatzteillisten sind online verfügbar unter <http://www.grillodeutschland.de/ersatzteillisten>
Los despieces son disponibles on line en <http://es.grillospa.it/despieces>

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