

Battery powered brush cutter

E60BC

ANOVA

Instructions and user manual



ANOVA[®] e+

EN

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Anova would like to congratulate you for choosing one of our products and guarantee you the assistance and cooperation that has always distinguished our brand over time.

This machine is designed to last for many years and to be of great use if used in accordance with the instructions contained in the user manual. We therefore recommend that you read this instruction manual carefully and follow all our recommendations.

For more information or questions you can contact us through our web supports such as www.anova.es.

INFORMATION ABOUT THIS MANUAL

Please pay attention to the information provided in this manual and on the appliance for your safety and the safety of others.

- This manual contains instructions for use and maintenance.
- Take this manual with you when working with the machine.
- Contents correct at time of printing.
- We reserve the right to make changes at any time without affecting our legal responsibilities.
- This manual is considered an integral part of the product and must remain with it in case of loan or resale.
- Ask your dealer for a new manual if it is lost or damaged.

READ THIS MANUAL CAREFULLY BEFORE USING THE MACHINE



To ensure your machine provides the best results, please read the usage and safety instructions carefully before using it.

OTHER WARNINGS:

Incorrect use may cause damage to the machine or other objects.

Adaptation of the machine to new technical requirements may cause differences between the content of this manual and the purchased product.

Read and follow all instructions in this manual. Failure to follow these instructions could result in serious personal injury.

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1. SAFETY INSTRUCTIONS

1.1. General safety instructions

Important



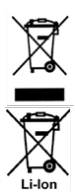
Be sure to read and understand all safety instructions in this instruction manual, including all warning symbols, before using this tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

Operating any power tool can cause foreign objects to fall into your eyes, which may result in serious eye damage. Always wear safety glasses and a full-face shield when necessary before you begin using your power tool. We recommend a wide-vision safety mask to wear over eyeglasses or standard safety glasses with side shields.

1.2. Safety symbols

This section shows and describes the safety symbols that may appear on this product. Read, understand, and follow all instructions for the machine before attempting to assemble and operate it.

	The product complies with the applicable European directives and a conformity assessment method was carried out for these directives.
	Indicates a potential risk of personal injury.
	To reduce the risk of injury, the user must read and understand the user manual before using this product. Failure to do so may result in serious injury to the operator and/or bystanders.
	Use appropriate, approved protective equipment for the use of the machine. Wear ear protection, head protection, safety gloves and non-slip footwear. These protective measures will help reduce possible injuries.
	Risk of injury. Pay attention to flying objects. Maintain a safe distance from all people and/or pets.
	Be careful of the push of the disc. Always be alert.
	This icon means the prohibition of the saw blade.
	Keep other people out of the working area during operation. The distance between the machine and other people should be at least 15 meters.

	Do not use the machine when it is raining. Do not expose the product to rain and do not use it in wet conditions.
	Remove the battery from the product before any expansion, cleaning and/or maintenance work.
	Risk of injury. Watch out for bouncing objects. Keep others at a safe distance.
	Noise level of the brush cutter.
	Any damaged or discarded electrical or electronic devices must be delivered to the appropriate collection centers. Do not dispose of power tools, rechargeable batteries/rechargeable batteries with household waste. Power tools and batteries which have reached the end of their useful life should be collected separately and returned to an environmentally friendly recycling facility. Please check with your local authority or dealer for recycling advice and collection points.

1.3. General safety instructions

Read all safety warnings, instructions, illustrations, and specifications provided with this tool. Failure to follow all instructions listed below may result in serious injury to persons and the unit.

Save all warnings and instructions for future reference.

1.3.1. Safety in the work area

- Keep the work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not use power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dusts. Power tools create sparks that can ignite dust or fumes.
- Keep children, bystanders and/or pets away while operating a power (battery-operated) tool.
- Distractions can cause you to lose control.
- Avoid hazardous environments: Do not use tools in damp or wet locations.

1.3.2. Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of substances that affect your control. A moment of inattention while operating power tools can result in serious personal injury.
- Always use personal protective equipment. Personal protective equipment such as eye protection, dust mask, non-skid safety shoes, hard hat and/or hearing protection used under appropriate conditions will reduce personal injury.
- Prevent unintentional starting. Make sure the switch is in the off position before connecting the battery, picking up or carrying the tool. Carrying power tools with your finger on the switch or turning on power tools with the switch on invites accidents.

- Remove any wrench or adjusting key before turning on the power tool. A wrench or spanner attached to a moving part of the power tool can cause personal injury.
- Do not overreach. Maintain proper footing and balance at all times. This allows for better control of the power tool in unexpected situations.
- Dress appropriately. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts. Loose clothing, jewelry, or long hair can get caught in moving parts.
- Where devices for the connection of dust extraction and collection facilities are provided, ensure that they are connected and used correctly. The use of dust collection can reduce dust-related hazards.
- Don't let familiarity gained from frequent tool use allow you to become complacent and ignore tool safety principles. One careless action can result in serious injury in a fraction of a second.

1.3.3. Electrical safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Unmodified plugs and compatible power supplies will reduce the risk of electric shock.
- Avoid body contact with grounded or earthed surfaces such as pipes, radiators, stoves, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord to carry, pull or unplug the power tool. Keep the cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When using a power tool outdoors, use an extension cord suitable for outdoor use. Using a cord suitable for outdoor use reduces the risk of electric shock.

1.4. Safety in the use and care of power tools

- Do not force the power tool. Use the correct power tool for your application. The right power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Remove the battery pack, if detachable, from the power tool and/or activate any battery disable device before removing jammed material, making adjustments, changing accessories, cleaning, or storing power tools. These preventive safety measures reduce the risk of accidentally starting the power tool.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts, and any other conditions that may affect the operation of the power tool. If damaged, have the power tool repaired before using it. Many accidents are caused by poorly maintained power tools and accessories.
- If present, keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

- Use the power tool, accessories, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Using the power tool for operations other than those intended could result in a hazardous situation.
- Keep handles and gripping surfaces dry, clean and free of oil and grease. Slippery handles and gripping surfaces can cause unsafe handling and/or loss of control of the tool.

1.5. Safety in the use and care of battery-powered tools

- Recharge only with the manufacturer's approved charger.
A charger suitable for one type of battery may create a risk of fire when used with another battery. Use only with the correct battery packs and chargers.
- Use power tools only with specifically designated battery packs. Use of any other battery packs may result in risk of injury and fire.
- When the battery is not in use, keep it away from other metal objects such as paper clips, coins, keys, nails, screws or other small metal objects that may establish a connection from one terminal to another.
A short circuit between the battery terminals can cause burns or a fire.
- Under abusive conditions, battery fluid may escape; avoid contact. If accidental contact occurs, rinse with water. If fluid comes into contact with eyes, additionally seek medical attention. Battery fluid may cause irritation or burns.
- Do not use a battery or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- Do not expose a battery or tool to fire or excessive temperatures.
Exposure to fire or temperatures above 212°F (100°C) may cause explosion.
- Follow all charging instructions and do not charge the battery or tool outside the temperature range specified in the instructions. Charging incorrectly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

1.6. Service and maintenance

- Have your power tool/battery serviced by a qualified technician using only manufacturer-approved replacement parts. This will ensure that the safety of the tool is maintained.
- Never service damaged battery packs.
- Battery pack service should only be performed by the manufacturer or authorized service providers.

1.7. Brushcutter Safety Instructions

- Do not operate the machine in adverse weather conditions. This reduces the risk of fatal injuries.
- Thoroughly inspect the area for wildlife where the machine will be used. The machine may injure wildlife during operation.
- Also thoroughly inspect the area where the machine will be used and remove all stones, sticks, wire and other foreign objects. Thrown objects can cause personal injury.
- Before using the machine, always visually inspect the machine and its components for damage. Damaged parts increase the risk of injury. Do not use the machine with damaged components.

- Follow the instructions for changing accessories. Nuts or bolts holding the disc in place if improperly tightened may damage the disc or cause it to come loose.
- The nominal rotation speed of the disc must be at least equal to the maximum rotation speed marked on the machine. Discs that operate faster than their nominal rotation speed may break and fly apart.
- Wear eye, ear, head and hand protection. Proper protective equipment will reduce personal injury.
- Always wear safety footwear when operating the machine. Do not operate the machine barefoot or with open sandals. This will reduce the possibility of foot injuries from contact with a moving cutting/nylon disc.
- Always wear long pants and leg guards when operating the machine. Exposed skin increases the likelihood of injury from thrown objects.
- Keep bystanders away while operating the machine. Thrown debris can cause serious personal injury.
- Always use both hands when operating the machine. Holding the machine with both hands will prevent loss of control.
- Hold the machine only by insulated gripping surfaces, as the disc or nylon may contact hidden wiring or its own cord. Contact with a live wire may "energize" exposed metal parts of the machine and could result in electric shock to the operator.
- Always maintain proper balance and operate the machine only when standing on the ground. Slippery or unstable surfaces may cause loss of balance or machine control.
- Do not operate the machine on excessively steep slopes. This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- When working on slopes, always be sure to stand firm, always work along the surface of the slope, never up or down, and use extreme caution when changing direction. This reduces the risk of loss of control, slips and falls that can result in personal injury.
- Keep the charger or harness adapter power cord away from the trimmer, nylon or cutting disc. A damaged power cord can cause electric shock, fire and/or serious injury.
- Do not use the machine above waist height. This helps prevent unintentional contact with the nylon or disc and allows for better control of the machine in unexpected situations.
- When cutting brush or young trees that are under tension, be alert for kickback. When tension in the wood fibers is released, it could strike the operator and/or cause the machine to lose control.
- Use extreme caution when cutting brush and young trees as thin material can catch on the blade and be thrown toward you or cause you to lose your balance.
- Maintain control of the machine and do not touch any of the dangerous moving parts while they are still moving.
- Transport the machine with the machine turned off and away from the body. Proper handling when transporting or storing the machine. Proper handling of the machine will reduce the likelihood of accidental contact with the wheel.
- When removing jammed material or performing maintenance on the machine, make sure the switch is off and the battery is removed. Unexpected starting of the machine while removing jammed material or performing maintenance can result in serious injury.

1.8. Causes of disk thrust and other warnings

Disc thrust is a sudden sideways, forward or backward movement of the machine, which can occur when the disc/nylon binds or catches on an object such as a sapling. It can be violent enough to cause the machine and/or operator to be propelled in any direction and possibly lose control of the machine.

- Keep a firm grip with both hands on the machine and position your arms ready to resist the thrust of the disc. Position your body to the left side of the machine. The thrust of the disc can increase the risk of injury due to the machine moving unexpectedly.
- If the blade binds, or if you must stop a cut for any reason, turn off the machine and hold it stationary in the material until the blade comes to a complete stop. Never attempt to pull the machine away from the material or pull the machine backwards while the blade is moving, otherwise kickback may occur. Investigate and take corrective action to eliminate the cause of the blade jam.
- Do not use dull or damaged discs. They increase the risk of jamming or catching on an object, causing the disc to push.
- Always maintain good visibility of the material being cut. Blade thrust is more likely to occur in areas where it is difficult to see the material being cut.
- If another person approaches you while you are using the machine, turn it off. If the moving disc hits other people, there is a high risk of serious injury.

1.9. Other important safety instructions

- If the power tool starts to vibrate abnormally or make noise, stop the motor and check the cause immediately. Abnormal noise is usually a warning of trouble.
- Make sure all appropriate guards and other safety devices are properly and securely in place before using this product. Do not use without guards in place.
- Do not charge the battery in the rain or in humid places.
- Do not dispose of the battery in a fire. Cells may explode. Check local codes for possible special disposal instructions.
- Do not open or break the battery. Released electrolyte is corrosive and may cause damage to eyes or skin. May be toxic if swallowed.
- Battery-powered tools do not need to be plugged into an electrical outlet, so they are always in working order. Be aware of potential hazards even when the tool is not in operation. Use caution when performing maintenance or service.
- Do not wash the product with a hose. Avoid getting water into the motor and electrical connections.
- If situations occur that are not covered in this manual, please use caution and good judgment. Contact your official Anova dealer for help and/or advice.
- Save these instructions. Refer to this manual frequently and use it to instruct others who may use this tool. If you loan this tool to someone else, loan these instructions to prevent misuse of the product and possible injury.

1.10. Residual risks

Important

Even if the equipment complies with the relevant product safety regulations, there may be residual risks given the characteristics of the equipment and the work for which it has been designed.

Failure to follow the instructions contained in the instruction manual may result in other residual risks due to improper use.

Residual risks can be minimized by following the safety instructions.

- Following these instructions and being careful will reduce the risk of personal injury and equipment damage.
- Failure to follow these safety instructions may result in injury to the operator or property damage.

- Lack of care, incorrect use or failure to follow safety rules can result in injury to hands and fingers when the wedge is in motion.
- There is a risk of electrocution if you use non-approved electrical connections.
- There is a risk of hearing loss when working with the machine without protection for long periods.

Note: Even if you take preventive measures, there may be residual risks that are not obvious.

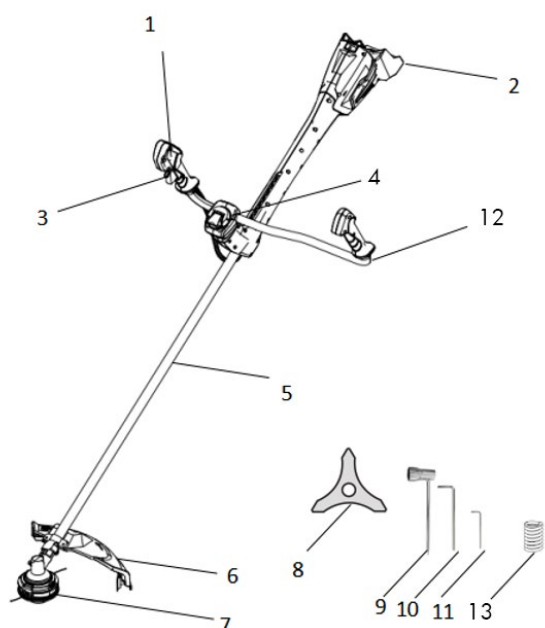
⚠ Warning

This power tool generates a magnetic field during operation. Under certain circumstances, this field may interfere with the operation of active or passive medical implants. To reduce the risk of serious injury or death, we recommend that individuals with a medical implant consult a physician and the manufacturer of the medical implant before using the device.

Note: In this manual we talk about power tools when we refer to tools powered by cable or through battery pack (cordless).

2. PRODUCT DESCRIPTION

2.1. Machine parts



1. MCDU (Multiple Control Display Unit)
2. Battery socket
3. Main trigger and lock button
4. Adjustment knob
5. Bar
6. Head protector
7. Cutting head
8. 3-point disc
9. Socket wrench
10. S5 Allan Wrench
11. S4 Allan Wrench
12. Handlebar
13. Spring

Note: Due to technical product updates, this document is subject to change without notice.

2.2. Meet the machine

⚠ Warning

Never use the tool without the guard being firmly in place. The guard must always be on the tool to protect the user.

Handlebar (12)

For easy control of the trimmer while cutting.

Head protector (6)

Reduces the risk of injury from foreign objects thrown back toward the operator and from contact with the cutting attachment.

Nylon cutting blade

Steel blade in the head guard keeps the nylon at the proper length.

3-point disc (8)

3-prong cutting attachment. Check the disc, pins and various components for visible damage or wear before each use. Replace worn or damaged disc and screws in pairs to ensure balance during operation.

Trigger and lock button (3)

Turns the tool on and off; the lock-on trigger must be depressed before pressing the main trigger.

MCDU (Multiple Control Display Unit)

Control the unit on/off, adjust the cutting speed, monitor the remaining battery capacity, total working time, error type and maintenance reminders.

Battery socket (2)

Insert the battery pack directly.

Tool kit

Helps with trimmer head replacement.

Note: Never use the tool without the guard being firmly in place. The guard must always be on the tool to protect the user.

3. TECHNICAL SPECIFICATIONS

Technical specifications	
Voltage	60V
No-load speed	Up to 5800 RPM
Cutting mechanism	Cutting head
Ø nylon type	2.4 mm
Cutting diameter (nylon)	42 cm
Cutting diameter (3-point disc)	25.4cm
Operating temperature	0°C ~ 40°C
Storage temperature	-20°C ~ 70°C
Net weight (including protector)	5 kg
Vibration ah	ah<2.5m/s ²
Uncertainty (k)	1.5 m/s ²
Sound pressure LpA for brush cutter	81 dB(A) K=3 dB(A)
Guaranteed sound power LwA for brush cutter	96dB(A)

Note: Due to technical product updates, this document is subject to change without notice.

Noise/Vibration Information

The noise figures quoted are emission levels and not necessarily safe working levels. While there is a correlation between emission levels and exposure, this cannot be reliably used to determine whether or not additional precautions are required. Factors that influence the actual level of exposure of the workforce include the characteristics of the work room, other sources of noise, etc. That is, the number of machines and other processes adjacent to each other, and the period of time during which an operator is exposed to the noise. In addition, the permitted exposure level may vary from country to country. This information will, however, enable the machine user to make a better assessment of the hazard and risk.

▲ Attention

Use hearing protection:

- QThe declared total vibration value has been measured according to a standard test method and can be used to compare one machine with another.
- That the declared total vibration value can also be used in a preliminary assessment of exposure.
- That the emission of vibrations during actual use of the machine may differ from the total declared value depending on the way in which the machine is used.
- Safety measures need to be identified to protect the user based on an estimate of exposure under actual conditions of use.

4. INSTALLATION AND OPERATION

4.1. Unpacking

After unpacking the product, check the contents of the box:

- This product requires assembly.
- Carefully remove the product and all accessories from the box. Make sure all items are included.

▲ Attention

Make sure that you have all the materials listed. Check that it has not been damaged in transit. Do not discard the packing material until you have carefully inspected and used the tool satisfactorily.

Please inform the dealer or supplier immediately of any damage or missing parts, as claims submitted after this date will not be recognised.

4.1. Mounting

▲ Warning

If any part is damaged or missing, do not use this product until the part is replaced. Using this product with damaged or missing parts could result in serious personal injury.

Do not attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification constitutes improper use and could result in a hazardous condition that could result in serious personal injury and void the warranty.

To prevent accidental starting which could cause serious personal injury, always remove plug/battery pack from tool when assembling parts, making adjustments, cleaning, or when not in use.

4.1.1. Mounting the cutting head

⚠ Warning

Always wear gloves when assembling or replacing any component of the machine. Take special care with the guard blade.

1. Remove the nut (clockwise), dust cover and gearbox support plate; (Fig. 2 and 3).

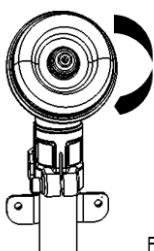


Fig.2

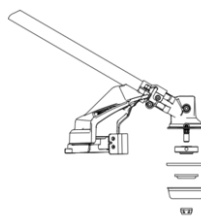


Fig.3

2. Rotate the drive shaft until you can see a hole inside the side of the gearbox (Fig. 4), place the Allen key #1 inside the inner hole and turn the cutting head onto the drive shaft counter-clockwise, until it is tight enough. (Fig. 5)

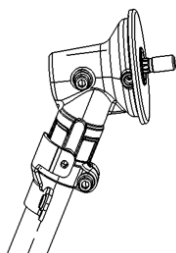


Fig.4

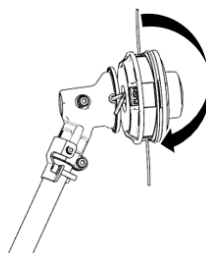


Fig.5

4.1.2. Mounting the protection

⚠ Warning

Always wear gloves when installing or replacing the guard. Be careful of the blade on the guard and protect your hands from injury from the blade.

1. Lift the cutting head up and place it down; align the two mounting holes in the guard with the two mounting holes in the base of the shaft. Make sure the inner surface of the guard faces the cutting head; use the #2 Allen wrench to secure the guard bolts in place (Fig. 6).

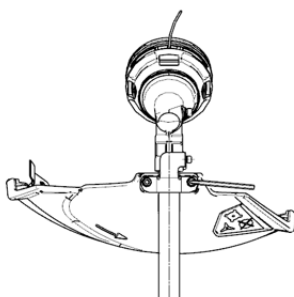


Fig.6

4.1.3. Mounting the disk

1. Remove the nut (clockwise), and all head components (Fig. 7 and 8).

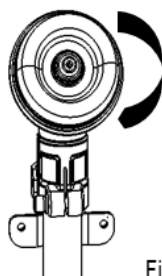


Fig.7

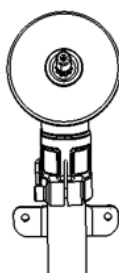


Fig.8

2. Align the disc on the support plate, insert the Allen key #1 into the hole and place the disc on the support plate, align the flange, dust cover and screw the nut with a socket wrench counterclockwise until it is tight enough (Fig.9, 10 and 11)

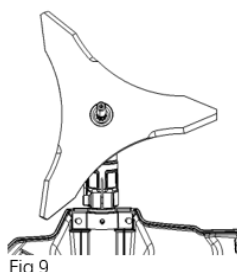


Fig.9

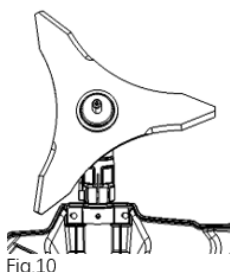


Fig.10

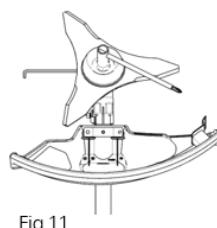


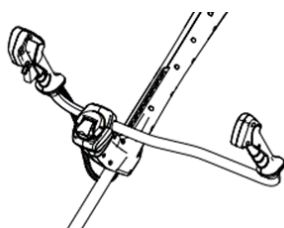
Fig.11

⚠ Warning

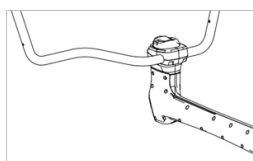
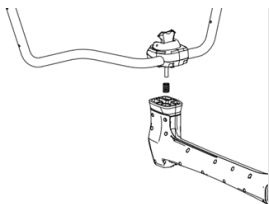
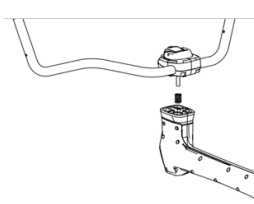
Always wear gloves when mounting or replacing the disc. Be careful with both the disc and the cutting blade on the guard.

4.1.4. Handlebar mounting

1. The handlebar is pre-installed on the tool, loosen the adjustment knob and adjust the handlebar as shown below.



2. Install the spring and tighten the knob (no tools required). Then the handlebar installation is complete.



Note: Do not operate the tool without the handlebar properly secured and installed.

4.2. Start-up and operating instructions

⚠ Warning

Always wear eye protection that is marked to meet applicable safety standards. Failure to do so may result in objects being thrown into the eyes and other possible serious injuries.

Do not use any accessories not recommended by the manufacturer of this product. Use of non-recommended accessories may result in serious personal injury and will void the product warranty.

To avoid serious personal injury, remove the battery plug from the tool before performing maintenance, cleaning, changing accessories, or removing material from the unit.

Don't let familiarity with this product make you careless. Remember that a fraction of a second of carelessness is enough to cause serious injury.

Intended use

Do not use this product for any other activity than it is intended for. You may use this product for purposes such as: Trimming grass and weeds around porches, fences and decks; cutting grass that is difficult to reach with a lawnmower or similar.

4.2.1. Connecting and disconnecting the battery

This brush cutter has a quick-insert battery pack connection. Use with the manufacturer-approved battery and charger. The battery and adapter are not included in the package, both are sold separately.

NOTE: Fully charge the battery before first use.

Connect the battery inserted into the machine directly

1. Insert the battery into the slots until you hear a "click" sound (Fig. 14).

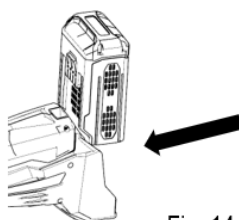


Fig.14

2. To disconnect the battery, press the battery lock button on the machine and remove the battery.

Connect the backpack battery with the adapter

**Backpack battery and adapter not included, sold separately.*

1. Place the adapter on the machine (Fig. 15).

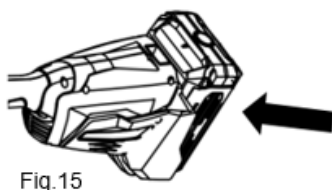
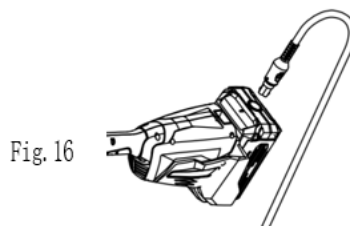


Fig.15

2. Correctly mount the backpack battery pack to the harness. For more information, refer to the corresponding manuals.
3. Connect/disconnect the battery to the tool via the connector cable (Fig. 16).



4. To disconnect the battery, unplug the adapter plug.

4.2.2. Holding and using the brush cutter

⚠ Warning

Dress appropriately to reduce the risk of injury when using this tool. Do not wear loose clothing or jewelry. Use eye and ear protection. Wear long, sturdy pants, boots, and gloves. Do not wear shorts, sandals, or go barefoot. Use a respirator or dust mask in dusty locations.

Before using the product, look around to ensure a safe work area free of other people and animals. Make sure other users are at least 30m (100ft) away. Clean the area to be cut before each use. Remove all objects such as rocks, broken glass, nails, wire or string that could be thrown or become entangled in the cutting attachment. (Fig. 17)



Make sure you have eye protection, appropriate clothing and a balanced stance. There may still be a risk to bystanders from thrown objects. Users should be encouraged to wear eye protection. If eye protection is brought near them, stop the engine and cutting attachment immediately.

Before each use, check for damaged or worn parts. Inspect the cutting head, guard and handlebar and replace any parts that are cracked, warped, bent or damaged in any way.

The nylon cutting blade guard may wear over time. It is recommended to sharpen it periodically or replace it with a new one.

Clean the trimmer after each use. See the maintenance section for cleaning instructions.

4.2.3. Starting and stopping the brush cutter

To start the brush cutter

1. Press the power button “” on the multi-control display unit to illuminate the screen.
2. Move the lock trigger forward and then press the main trigger. The tool will start to work. Press the gear shift button on MCDU to change the gear and adjust the cutting speed of the tool, with 1P being the lowest gear and 3P being the highest gear (Fig. 18).



To turn off the brush cutter

1. Move the tool away from the cutting area and release the main trigger to stop the tool.
2. Press the on/off button on the MCDU display to turn off the tool and prevent accidental starting.

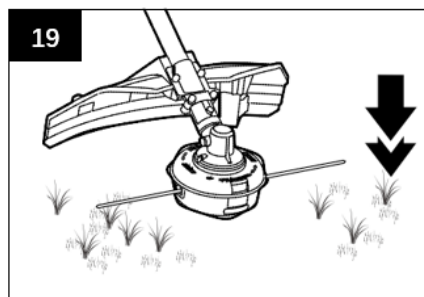
⚠ Warning

Always remove the battery from the tool during breaks in work and after finishing work to avoid unexpected starts.

Note: Make sure the screen is off before next use to avoid serious personal injury.

4.2.4. Adjusting the length of nylon

The cutting head allows the operator to release more cutting nylon without stopping the engine. As the nylon frays or wears, additional nylon can be released by lightly tapping the ground with the cutting head while operating the machine (Fig. 19).



⚠ Warning

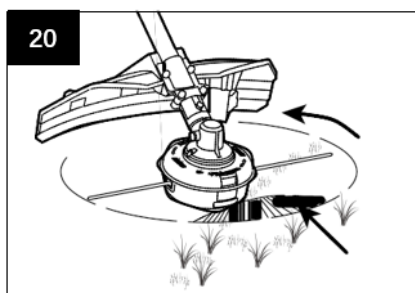
Do not remove or modify the nylon cutting blade assembly. Excessive nylon length will cause the motor to overheat and may result in serious personal injury.

For best results, tap the cutting head on the ground. Always keep the nylon fully extended. Releasing the nylon becomes more difficult as the nylon shortens. Replace the nylon when necessary.

4.2.5. Tips for use

Follow these tips for best trimming results (Fig.20):

- The correct angle for the cutting attachment is parallel to the ground.
- Do not force the machine. Let the tip of the nylon do the cutting (especially along walls). Cutting with more than the tip will reduce cutting efficiency and may overload the motor.
- The cutting height is determined by the distance of the nylon/disc from the grass surface.
- Grass over 8" (200 mm) should be cut working from top to bottom in small increments to prevent premature wear of the cutting attachments.
- Slowly move the machine in and out of the area to be cut, keeping the cutting head positioned at the desired cutting height. This motion can be a forward motion, a backward motion, or a side-to-side motion. Cutting shorter lengths produces better results.
- Avoid trimming when grass and weeds are wet.
- Wire and picket fences can cause additional wear or tear on the nylon. Stone and brick walls, curbs, or wood can quickly wear down the nylon.
- Avoid trees and shrubs. The cutting line can easily damage tree bark, wood trim, siding, and fence posts.



5. MAINTENANCE

⚠ Warning

When performing maintenance, use only manufacturer-approved replacement parts. Use of any other parts may create a hazard or cause damage to the product. To ensure safety and reliability, all repairs must be performed by an authorized dealer.

Never use water to clean your product. Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents. Use clean cloths to remove dirt, dust, oil, grease, etc.

To avoid serious personal injury, always remove the power cord from the product when cleaning or performing any maintenance.

All maintenance, except for the most basic tasks, must be carried out by your authorized dealer. If in doubt, do not carry out any maintenance without first consulting your dealer.

Never allow brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come into contact with plastic parts. Chemicals can damage, weaken, or destroy plastic, which may result in serious personal injury.

5.1. Replace nylon

⚠ Attention

Always use the recommended nylon with a diameter not exceeding 2.4mm. Using a nylon other than that specified may cause the tool to overheat or become damaged.

1. Press the "PUSH" button on the trimmer head to pull the release tabs inward to unlock them from the top cover, then pull out the spool retainer, fold the nylon, hang it and rotate it into the spool retainer (Fig. 21 and 22).

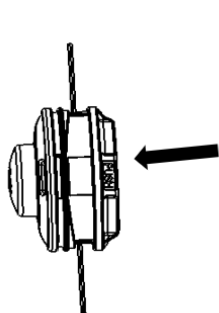


Fig.21

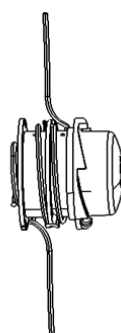


Fig.22

2. Place the end of the nylon through the metal positioning piece, align the top cover with the spool retainer and push them firmly until you hear a "click" sound (Fig. 23 and 24).

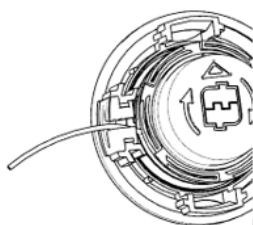


Fig.23



Fig.24

⚠ Attention

Always thoroughly clean the spool retainer and top cover before reassembling the trimmer head.

Make sure the spool retainer release tabs snap into place, otherwise the spool assembly will come out during operation, which may result in serious personal injury.

5.2. Replacing the head

If the head becomes loose after being secured in position, replace it immediately.

Never use a brushcutter with a loose cutting attachment. Replace a cracked, damaged or worn cutting head immediately, even if the damage is limited to superficial cracks.

These accessories can break at high speed and cause serious injury.

5.3. Sharpening nylon cutting blade

▲ Warning

Always protect your hands by wearing heavy gloves when performing any maintenance on the nylon cutting blade.

1. Remove the blade from the guard.
2. Secure the blade in a vise.
3. Wear suitable gloves and eye protection and be careful not to cut yourself.
4. Carefully file the cutting edges of the blade with a fine-toothed file or sharpening stone, taking care to maintain the original angle of the cutting edge.
5. Replace the blade into the guard and secure it in place with the two screws.

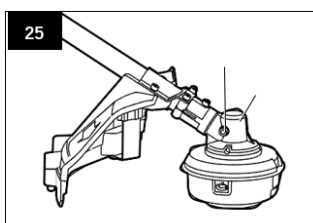
Note: If in doubt, always consult your official dealer first. You can also directly replace the blade with a new one.

5.4. Lubricate the head gear

For best performance and longer life, lubricate the tool head gear with a special grease after every 50 hours of operation.

Remove the gear case sealing screw with the Allen wrench and apply grease into the oil hole to the extent of 0.011 lb (5 g) (Fig. 25).

Note: Do not completely fill the gearbox with grease.



The grease must meet the following requirements:

- NLGI Grade Penetration: NLGI-1
- Thickener type: ester
- Recommended operating temperature range: 0°C to 40°C
- In addition to the above, the grease should also have excellent low temperature starting, EP, mechanical shear, abrasion resistance and oxidation stability properties. Please contact your official distributor in advance for more information.

5.5. Cleaning

- Remove the power plug from the tool.
- After each use, clean any debris, clogged dirt, grass on the disc or guard, or grass that may have become tangled around the drive shaft or trimmer head with a soft brush.
- Clean the surface of the tool with a clean cloth moistened with a mild soap solution.
- Clean the air vents on the rear case with a small brush/blowgun. Keep the air vents free of obstructions.

- Do not use harsh detergents on the plastic housing or handlebar. They can be damaged by certain aromatic oils and solvents. Moisture can also cause a risk of electric shock. Wipe off moisture with a soft, dry cloth.

5.6. Transport and storage

- Clean the tool thoroughly before storing.
- Store the tool indoors in a dry place where children and unauthorized persons cannot access it.
- Keep it away from corrosive agents such as garden chemicals and de-icing salts.

Danger

Insufficient maintenance and care can lead to accidents and unforeseen injuries. Repairs and work required for the correct use of the machine must be carried out by qualified and authorised personnel. For more extensive maintenance or repairs, hand the machine over to your authorised dealer. Repairs to power tools must be carried out by a specialist service.

Note: If you have any questions or problems persist, please contact your dealer or service center.

6. TROUBLESHOOTING

Problem/Symptom	Possible cause	Possible solution
When trimming, the cutting head does not advance the nylon.	The drive shaft or trimmer head is clogged with grass.	Stop the trimmer, disconnect the power cord and thoroughly clean the drive shaft or cutting head.
	There is not enough nylon on the spool.	Disconnect the power cord and replace it with a new nylon one.
	The nylon is tangled in the cutting head.	Unplug the power cord and reload the nylon.
	The nylon is too short.	Unplug the power cord and pull the nylon manually while alternately pressing and releasing the cutting head.
When working, the grass wraps around the cutting head.	Cut tall grass at ground level.	Cut tall grass from top to bottom, removing no more than 8" with each pass to prevent curling.
When working, the nylon cutting blade of the guard cannot cut nylon.	The guard cutting blade has become dull.	Sharpen the cutting blade with a file or replace it with a new one.
Cracks in the cutting head or the spool retainer comes loose with the top cover.	The cutting head is worn.	Before further use, replace it with a new cutting head.

Mistake	Possible cause	Possible solution
E01	The voltage of the controller Bad boot	Release the switch and restart in the correct way. Please contact your official dealer.
E02	Surge	Release the switch
E03	Low speed protection, disk locked	Release the switch
E04	Controller temperature protection	Release the switch, wait for the machine temperature to cool down to normal.
E05	Battery temperature protection.	Restart the tool until the temperature is correct.
E06	Voltage problem	Stop the machine, restart it and charge the battery with the specified charger. Check if the correct voltage battery pack is used.
E07	Short circuit in the motor	Please contact your official dealer.
E08	Phase loss	Please contact your official dealer.
E09	Another failure	Stop the machine, restart it, if it still doesn't work, contact service
E10	Battery failure	Use the appropriate battery that is compatible with the machine.
E11	MOS failure	Please contact your official dealer.
E20	User interface failure	Please contact your official dealer.

7. WARRANTY

If your product suffers from a manufacturing defect during the established warranty period, please contact or go to your point of sale directly with the necessary documentation.

Your purchase invoice should be retained as proof of the date of purchase. Your tool must be returned to your dealer in an acceptable, clean condition, in its original molded case, if applicable to the unit, accompanied by your appropriate proof of purchase.

7.1. Warranty period

The legal warranty period for the product begins on the original date of purchase by the first initial buyer and its duration will be that established by the Royal Decree-Law on the protection of consumers and users against situations of social and economic vulnerability of the year corresponding to the time of acquisition of the product.

Some countries do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of consequential or incidental damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or country to country.

7.2. Exclusions

This warranty does not cover product damage or performance problems caused by:

- Natural wear and tear.
- Misuse, neglect, careless operation or lack of maintenance.
- Defects caused by incorrect use, damage caused by manipulations carried out by personnel not authorized by Anova or use of non-original spare parts.
- Defects in normal wear parts such as bearings, brushes, cables, plugs or accessories such as drills, bits, saw blades, etc.
- Damage or defects resulting from abuse, accidents or alterations.
- Incorrect use and storage (explicit reference that the rules described in the operating instructions have not been complied with).
- Customer-caused wear (e.g. broken saw blades, worn carbon brushes, etc.).
- Wear and secondary damage due to lack of maintenance, repair, lubricants (e.g. overheating damage due to blocked cooling slots, bearing damage as a result of dirt, frost damage, etc.)
- Damage as an obvious result of overuse/overloading.
- Damage caused by inappropriate supplies (e.g. incorrect fuel)
- Load-induced breakage of housing components or accessories due to abnormal stress
- Load-induced deformation of housing components or accessories due to abnormal stress.
- Damage resulting from the operation of supplies that are overfilled or leak due to improper storage, inappropriate cleaning agents, or other damaging chemical components.
- Damage due to improper exposure to extreme temperatures (e.g. freeze fractures, thermal deformation of components, etc.)
- Damage from permanent exposure to ultraviolet radiation.
- Damage caused by inadequate maintenance.
- Any damage caused by failure to comply with the instruction manual
- Any product that has been attempted to be repaired by an unqualified professional.
- Any product connected to an inadequate power source (amps, voltage, frequency).
- Any damage caused by external influences (water, chemicals, physical, shocks) or foreign substances.
- Use of unsuitable accessories or parts.
- It does not include defects in normal wear parts, nor does it cover damage or defects resulting from abuse, accidents or alterations, nor transportation costs.

The warranty is also void if the product has been altered or modified, or if the trademark/serial number on the machine has been defaced or removed.

Routine maintenance, tune-ups, adjustments or normal wear and tear are not covered under this warranty.

This manual does not cover all possible situations regarding warranty exclusions, for more information please contact your nearest Anova dealer.

7.3. In case of incident

The warranty must be correctly completed with all the requested information and accompanied by the purchase invoice.

Anova reserves the right to reject any claim where the purchase cannot be verified or where it is clear that the product was not properly maintained (maintenance, ventilation slots cleaned, lubrication, carbon brushes regularly maintained, cleaning, storage, etc.).

Private use means personal household use by an end consumer. Commercial use means all other uses, including uses for business, income-generating or rental purposes. Once the product has been used for commercial use, it will henceforth be considered a commercial product for the purposes of this warranty.

These are our standard warranty terms, but occasionally there may be additional warranty coverage not determined at the time of publication. For more information, please contact your nearest official Anova dealer or visit www.millasur.com.

Warranty service is only available through official Anova dealers. You can locate your nearest dealer on our dealer map at www.anova.es.

8. ENVIRONMENT



Protect the environment. Recycle the oil used by this machine by taking it to a recycling center. Do not pour used oil into drains, soil, rivers, lakes or oceans.



Dispose of your machine in an environmentally friendly manner. Machines should not be disposed of with household waste. Their plastic and metal components can be sorted according to their nature and recycled.

The materials used to package this machine are recyclable. Please do not throw the packaging into your household waste. Dispose of this packaging at an official waste collection point.

Batteries should not be thrown into the trash. At the end of your machine's lifespan, batteries or chargers should be removed from the equipment and disposed of separately.

9. CE CERTIFICATE

DISTRIBUTION COMPANY

MILLASUR, SL

RUA EDUARDO PONDAL, Nº 23 PISIGÜEIRO

15688 OROSO - A CORUNA

SPAIN



EC DECLARATION OF CONFORMITY

In compliance with the various EC directives, it is hereby confirmed that, due to its design and construction, and according to the CE mark printed on it by the manufacturer, the machine identified in this document complies with the relevant and essential health and safety requirements of the aforementioned EC directives. This declaration validates the product to display the CE symbol.

In the event that the machine is modified and this modification is not approved by the manufacturer and communicated to the distributor, this declaration will lose its value and validity.

Machine name: BATTERY BRUSH CUTTER

Model: **E60BC**

Recognized and approved standard to which it complies:

**Directive 2006/42/EC
2014/30/EU**

Tested according to regulations:

**EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN 62841-1:2015+A11:2022
EN 62841-4-2:2019**

Company stamp

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08/19/2024