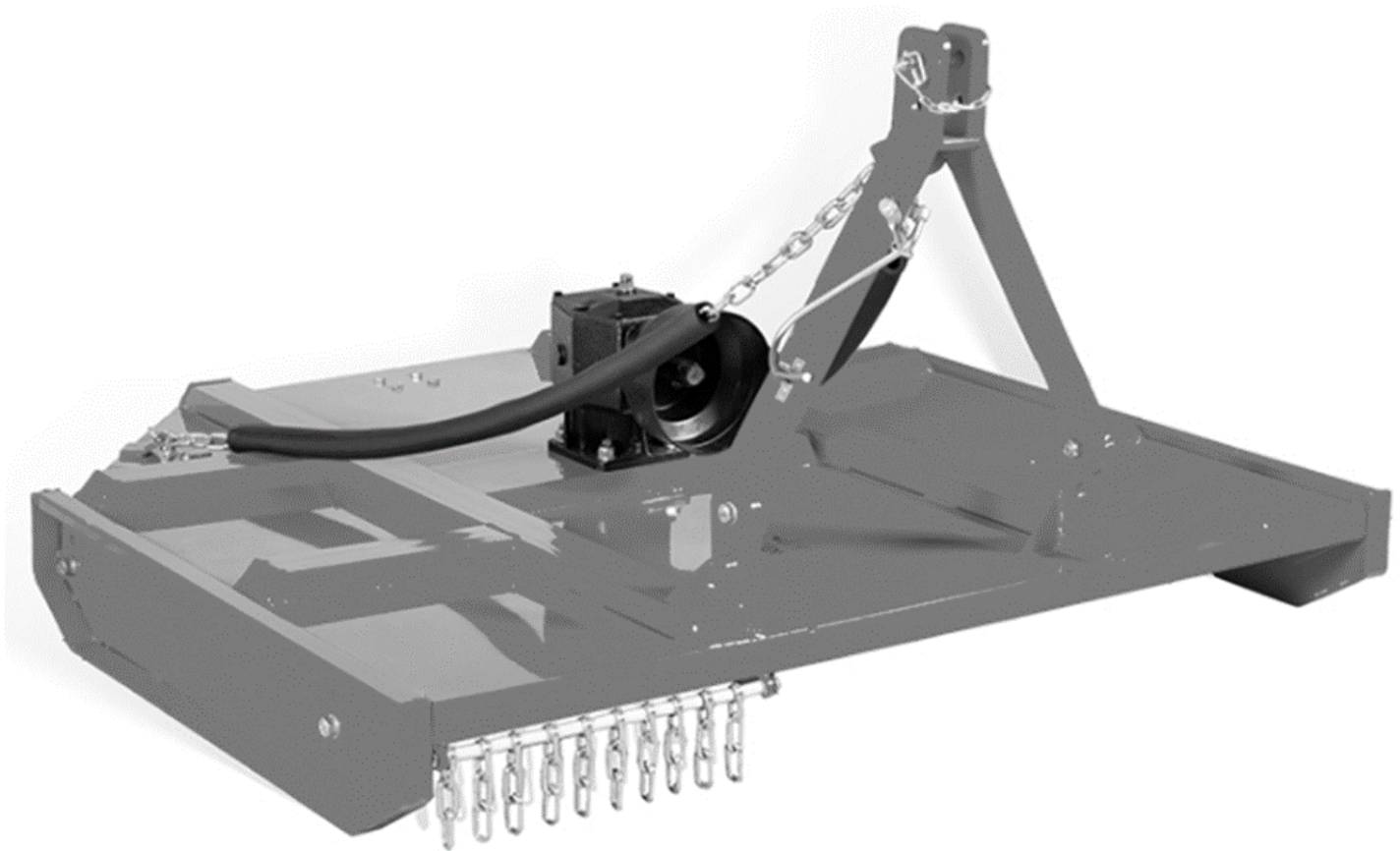


Tractor-mounted brush cutter with blades **PTODTCU100, PTODTCU120, PTODTCU140**

ANOVA

Instructions and user manual



EN

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Anova We would like to congratulate you on choosing one of our products and guarantee 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 according to the instructions in the user manual. We therefore recommend that you carefully read this instruction manual and follow all our recommendations.

For more information or questions, you can contact us through our web support at www.anova.es.

INFORMATION ABOUT THIS MANUAL

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 you go to work with the machine.
- The content is correct at the 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.
- Request a new manual from your distributor if it is lost or damaged.

READ THIS MANUAL CAREFULLY BEFORE USING THE MACHINE



To ensure your machine delivers the best results, carefully read the usage and safety guidelines before using it.

OTHER WARNINGS:

Improper use could cause damage to the machine or other objects.

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

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. Safety instructions

Important






Before operating this product, please read and follow the instructions below. To prevent injury to yourself and others, you should also follow local safety regulations.

Keep these instructions for future reference. This manual contains safety information to inform you about the hazards and risks associated with the product and how to prevent them. It also contains important instructions that must be followed during product setup, operation, and maintenance.

It is important that you read and understand these instructions before attempting to operate this equipment. Make sure you are fully familiar with the controls and the correct use of the product.

Throughout this manual, you will find notices that provide safety instructions and information about hazards that could cause personal injury and/or property damage. These include a warning icon to indicate the likelihood and potential severity of injury.

- Danger/Warning: Indicates a hazard that, if not avoided, could result in serious injury.
- Important/Caution: Indicates a hazard which, if not avoided, could result in minor or moderate injury.
- Note/Notice: Indicates information considered important but not related to hazards.

	<p>Turn off the tractor engine and remove the key before working on the machine.</p>
	<p>Risk of being caught in the transmission. Do not approach the machine and avoid wearing loose clothing that could become entangled in moving parts. Risk of projectiles.</p>
	<p>Stay clear of the machine's operating area. Ensure all guards are in place during use.</p>
	<p>Maximum power take-off speed: 540 rpm MAX.</p>
	<p>Hazard of cutting. Keep clear of the machine's operating area. Ensure all guards are in place during use.</p>

Manufacturer's identification license:

CE	
TYPE:	YEAR:
SERIAL No.	WEIGHT(Kg)

It is strictly forbidden to remove the safety devices, safety labels, and manufacturer's identification plate

1.2. Safety standards

To avoid accidents during work, it is necessary to observe the most basic safety rules:

1.2.1. Operator

- The operator must not start the machine if they are not in full physical and mental capacity:
 - Good eyesight and good hearing.
 - Read and study the manual.
 - Be mindful of your safety and the safety of others.
 - Be familiar with the use and maintenance of the machine.
 - It is strictly forbidden to drink alcohol, ingest drugs and other substances that may affect the use of the machine.
- Do not wear loose clothing that could get caught in moving parts.
- Use the appropriate safety equipment:
 - Standardized work gloves
 - Safety footwear
 - Helmet
 - Hearing protection device
 - Protective glasses

1.2.2. Machine

The coupling should only be carried out at the points provided for this purpose, in accordance with safety regulations.

- It is forbidden to use the machine as a means of transporting people, animals or objects.
- The machine must be in perfect working order and maintained with original parts.
- It is strictly forbidden to make modifications to the machine without the manufacturer's authorization.

It is forbidden to:

- Working on steeply sloping terrain, especially in places with many stones.
- Working in conditions of insufficient visibility.
- Working without protective equipment.
- Modifying the machine without the manufacturer's authorization.

- Raise the machine with the power take-off (PTO) shaft in motion.
- Getting on the machine during work or transport.
- Approach the operating machines.
- Working behind houses or the road without maintaining a safe distance.

1.2.3. Operation

Read the tractor's user manual before attaching the machine

Attach the machine to the tractor on a flat surface, stop the engine and apply the brake.

The brushcutter can be attached to all types of tractors with a 3-point hitch, and the required power corresponds to the power of the gearbox.

Before using it, it is necessary to perform some operations:

Once the machine is connected to the 3-point tractor:

- Connect the transmission (fixing near the machine).
- Check the length and shorten it if necessary. Read the manufacturer's instructions.
- Adjust the transmission mounting.
- The two anti-rotation chains of the transmission must be connected, one to the machine hood and the other to the tractor.
- Check the gearbox oil level (oil 85×140EP).
- Check that the power take-off rotation speed is compatible with the gearbox speed, 540 rpm max.
- Check the tightness of the gearbox and blade system screws before using the machine.

In case of intense vibrations, stop the machine and call a technician.

Note: We decline all responsibility for damages of a natural nature caused by failure to comply with safety and usage rules.

1.3. Residual risks

Important

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

Residual risks can be minimized by following safety instructions.

- You will reduce the risk of personal injury and damage to equipment if you follow these instructions and are careful.
- Failure to comply with these safety instructions may result in injury to the operator or damage to property.
- Lack of care, improper use, or failure to comply with safety regulations can result in injuries to the hands and fingers when the wedge is in motion.

Read the user manual before using or servicing the machine.

- Rotating parts pose a hazard to hands. Stop the rotor before using the machine.
- Splashes of stones, wood, etc. Keep clear of the machine's working area. Ensure all guards are in place during use.
- Danger of being caught in the transmission. Do not approach the machine; avoid wearing loose clothing that could get caught in the machine's moving parts.

The crusher complies with European safety standards.

If the tractor does not have a seat protection device, we recommend placing a guard behind the operator or using a safety helmet during work.

Note: Even if you take preventive measures, there may be residual, non-obvious risks.

2. TECHNICAL SPECIFICATIONS

Characteristics	PTODTCU100	PTODTCU120	PTODTCU140
HP Tractor	18-25 hp	20-30 hp	20-30 hp
Working width	950 mm	1150 mm	1350 mm
Number of blades	2	2	2
PTO speed	540 rpm	540 rpm	540 rpm
Dimensions	1150x1146x968 mm	1350x1346x968 mm	1550x1546x968 mm
Weight	148 kg	170 kg	200 kg

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

3. INSTRUCTIONS FOR USE

3.1. Components

The horizontal shaft brushcutter is designed for lawn maintenance and cleaning.

- The tractor's power should not exceed that of the gearbox.
- It consists of a chassis.
- A gearbox compliant with CE standards
- CE-approved protection
- A variable cutting height system that adapts to the needs of the job
- A rear protective plate
- Front protection
- Two height-adjustable plates
- A portable hitch
- A transmission compliant with CE standards and with appropriately safe dimensions; the power is adjusted to the work requirements. The brushcutter is supplied with safety pins or a clutch.
- Protective cover on the gearbox
- Front protection
- AR splash guard

Option: the transmission bolt or the clutch and freewheel.

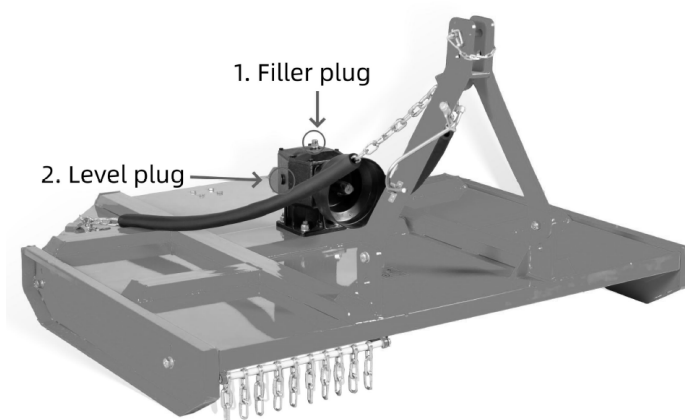
It is strictly forbidden to use the equipment without one of these protective devices.

3.1.1. Gearbox oil inspection and change

Type of gear oil	SAE 80W/90 or 85W/140 multipurpose gear oil
Dimensions	Gearbox oil level
First oil change	First 50 hours of use

How to make the change:

1. Remove the filler cap (1) located on top of the gearbox.
2. Remove the fill plug (2) located on the side of the gearbox. If oil comes out of the drain hole, the gearbox is full. If no oil comes out, proceed to the next step.
3. Add gear oil through the filler plug (1) to the bottom of the level plug (2).
4. Replace the filler cap (1) and level cap (2) on the gearbox.

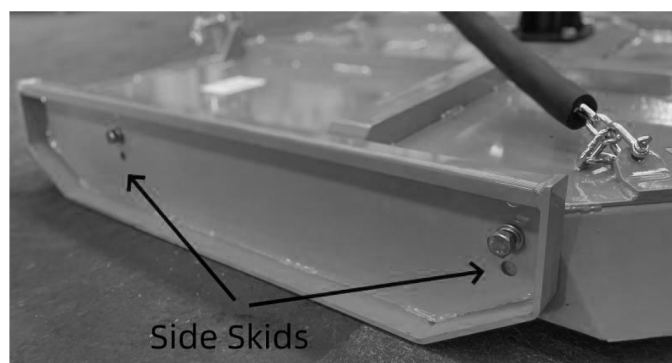


3.2. Cutting height and skate adjustment

- Adjust the cutting deck height using the side skids or by raising the lawnmower using the articulation system until the desired height is reached.
- The lawnmower must be raised higher off the ground to cut grass, weeds, or small branches.

How to adjust it:

1. Loosen the screws and nuts on the side skids on both sides of the lawnmower.
2. Move the skates up or down until the screw holes are aligned at the desired height.
3. Retighten the screws and nuts.



3.3. Changing and replacing the blades



4. MAINTENANCE

Transmission removed, machine disconnected from tractor

After 5 hours of use:

- Check the tightness of the screws throughout the machine
- Check the gearbox oil level.

It is recommended to check:

- Gearbox oil level (drain it after the first 40 hours of work and subsequently every 250 hours; drain it by suction)
- The adjustment and securing of the transmission
- Tightening the screws of the blade system, gearbox, and base plates.

Repairs and maintenance tasks should be carried out by a professional.

At the end of the season or if the machine is not used for an extended period, it is recommended to:

1. Place the transmission on the support provided for it, in order to avoid the accumulation of dirt, deformation or deterioration of the protectors.
2. Clean the machine carefully
3. Check and replace damaged parts
4. Lubricate all parts with oil or any other anti-rust product.
5. Cover the machine with a tarpaulin or, if possible, store it in a dry place.

If you follow these recommendations, you'll have a machine in perfect condition for the next time you use it.

5. TROUBLESHOOTING

ISSUES	REASONS	SOLUTIONS
Wear or damage to gearboxes	Incorrect installation	1-Check that all chains are properly secured and allow the transmission to articulate.
Vibrations and noise excessive	Loose screws, broken blades, transmission too long or incorrectly mounted, rotor blocked by dirt or rust	1- Check that the protectors are not touching the parts of the tractor or machine during work. 2-Check the condition of the rotor and the blades and replace any damaged parts. 3-Check the transmission length and Consult the user manual. 4-Check the rotation speed of the power take-off shaft, which must correspond to the speed of the machine's gearbox (540 rpm max.)
Ineffective work	-Blade Wear -Rotation speed too low or advanced Too fast. Transmission safety damaged by friction	1-Check the wear on the blades. 2-Reduce the tractor's speed. 3-Check the rotation speed of the power take-off shaft, which must match the speed of the machine's gearbox. 4-Consult the transmission manual or call a technician. Sudden rotor stoppage. Insufficient friction,
Sudden rotor stoppage	Loose friction, broken Pin	1-Check the transmission notification or contact a technician.

6. WARRANTY

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

Your purchase receipt should be kept as proof of the purchase date. Your tool must be returned to your distributor in acceptable and clean condition, in its original molded case, if applicable, along with your corresponding proof of purchase.

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

6.2. Exclusions

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

- Natural wear and tear from use.
- Misuse, negligence, careless operation, or lack of maintenance.
- Defects caused by improper use, damage caused by handling 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, drill bits, saw blades, etc.
- Damage or defects resulting from abuse, accidents, or alterations.
- Incorrect use and storage (explicit reference to the fact that the rules described in the operating instructions have not been followed).
- Wear and tear caused by the customer (e.g., broken saw blades, consumed 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/overload.
- 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 the housing components or accessories due to abnormal stress.
- Damage resulting from the operation of supplies that are overfilled or leak due to improper storage, improper cleaning agents, or other damaging chemical components.
- Damage due to improper exposure to extreme temperatures (e.g., frost cracking, thermal deformation of components, etc.)
- Damage from permanent exposure to ultraviolet radiation.
- Damage caused by inadequate maintenance.
- Any damage caused by failure to follow the instructions in the instruction manual
- Any product that has been repaired by an unqualified professional.
- Any product connected to an unsuitable power source (amps, voltage, frequency).
- Any damage caused by external influences (water, chemicals, physical, impacts) or foreign substances.
- Use of unsuitable accessories or parts.
- It does not cover defects in normal wear and tear parts, nor does it cover damage or defects resulting from abuse, accidents or alterations, nor transportation costs.

Furthermore, the warranty is voided if the product has been altered or modified, or if the trademark/serial number of the machine has been defaced or removed.

Routine maintenance, tuning, 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 distributor.

6.3. 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 refuse any claim where the purchase cannot be verified or where it is clear that the product was not properly maintained (maintenance, clean ventilation slots, lubrication, regularly maintained carbon brushes, cleaning, storage, etc.).

Private use is defined as personal domestic use by an end consumer. Commercial use, on the other hand, means all other uses, including uses for business purposes, income generation, or rental. Once the product has been used for commercial purposes, it will be considered a commercial product thereafter for the purposes of this warranty.

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

Warranty service is only available through authorized Anova distributors. You can find your nearest distributor on our distributor map at www.anova.es.

7. ENVIRONMENT



It is essential to ensure that products and their components are disposed of responsibly to protect the environment. Below, you will find general guidelines for the proper disposal of various materials used in your machine.

Dispose of your machine in an environmentally friendly way. We shouldn't throw machines away with the regular household waste. Their plastic and metal components can be sorted according to their type and recycled.

When disposing of machinery or metal products, it's important to remember that their metal components, such as iron, steel, or aluminum, must be properly recycled at metal recycling facilities. This will contribute to their potential reuse in the manufacture of new products.

Oils and Fuels

Used oils and fuels, among other things, must be recycled properly. Do not pour these liquids down drains, into soil, rivers, lakes, or seas, as they can cause serious environmental damage. Take them to a recycling center or specialized collection point. This process helps prevent water and soil contamination and allows for the safe reuse of oils, if possible.

Plastics

Plastics should be separated and taken to designated recycling points. Do not throw them away with regular household waste. Plastics can be recycled, helping to reduce waste.

Cardboard

Packaging materials, such as cardboard, are recyclable. Be sure to separate clean, dry cardboard and place it in designated recycling containers or at an official waste collection point. Do not dispose of it with household waste.

Batteries

Batteries and other electronic components from machines must be disposed of at designated collection points to prevent the release of toxic substances into the environment. Do not throw them away with regular trash. Take them to appropriate recycling centers for safe and responsible handling.

By following these guidelines, you contribute to environmental protection and resource conservation. For more information on material disposal and recycling, please contact your local authorities and consult the necessary information.

8. PARTS BREAKDOWN

