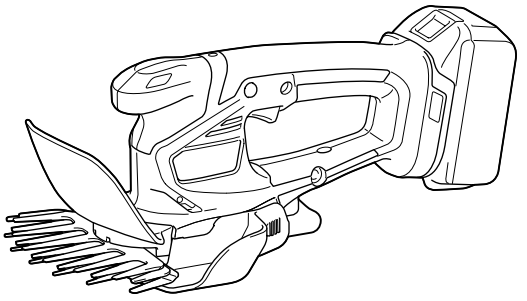
EN	Cordless Grass Shear	INSTRUCTION MANUAL	10
FR	Taille-Herbes sans Fil	MANUEL D'INSTRUCTIONS	19
DE	Akku-Grasschere	BETRIEBSANLEITUNG	29
IT	Cesoie tagliaerba a batteria	ISTRUZIONI PER L'USO	39
NL	Accugrasschaar	GEBRUIKSAANWIJZING	49
ES	Tijeras Inalámbricas para Hierba	MANUAL DE INSTRUCCIONES	59
PT	Tesoura para Grama a Bateria	MANUAL DE INSTRUÇÕES	69
DA	Akku græsklipper	BRUGSANVISNING	79
EL	Φορητό κουρευτικό γκαζόν	ΕΓΧΕΙΡΙΔΙΟ ΟΔΗΓΙΩΝ	88
TR	Akülü Çim Makası	KULLANMA KILAVUZU	99

DUM604



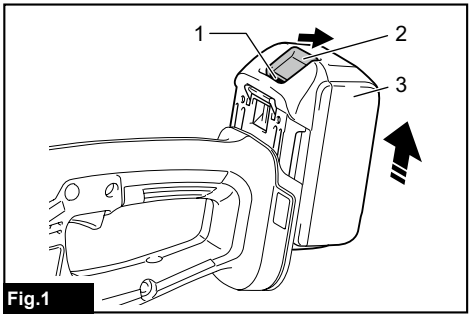


Fig.1

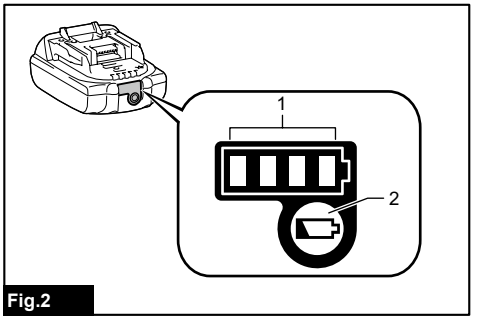


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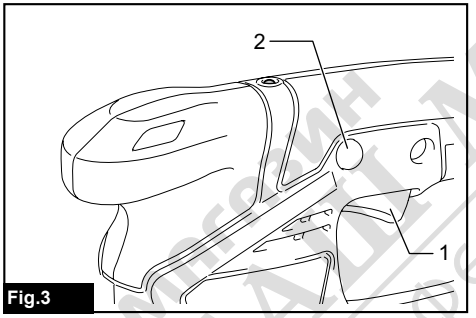


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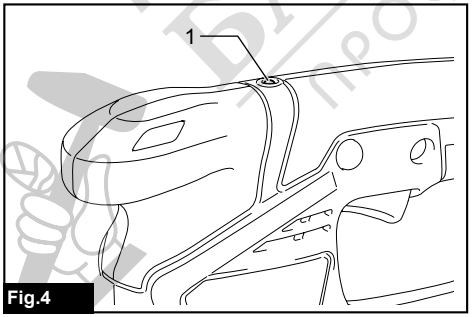


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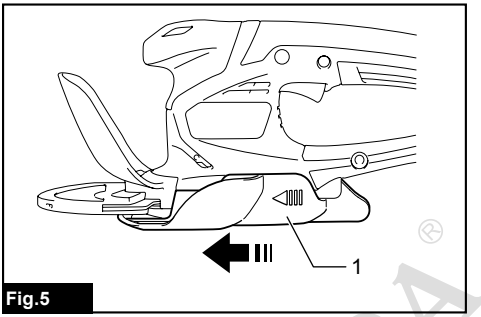


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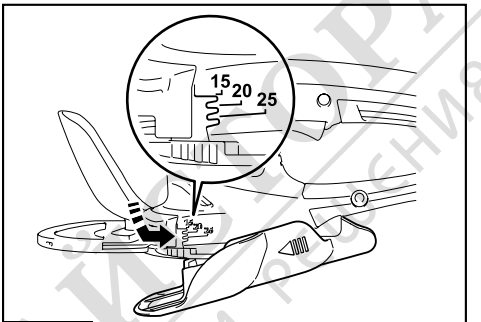
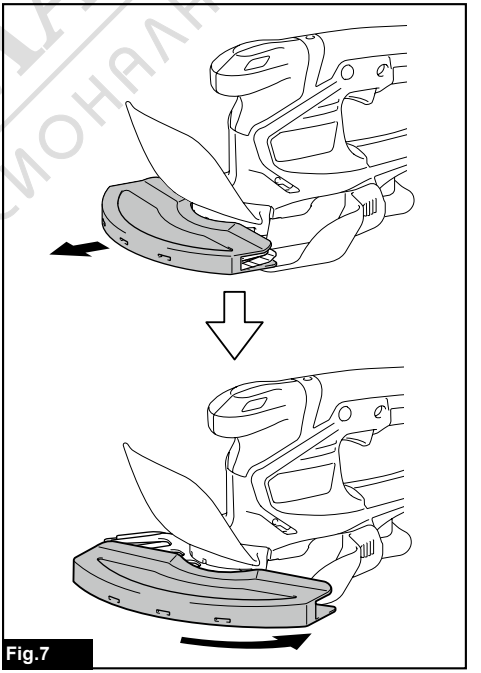


Fig.6


Fig.7

МАЙСТОРА ПРОФЕСИОНАЛНИ РЕШЕНИЯ

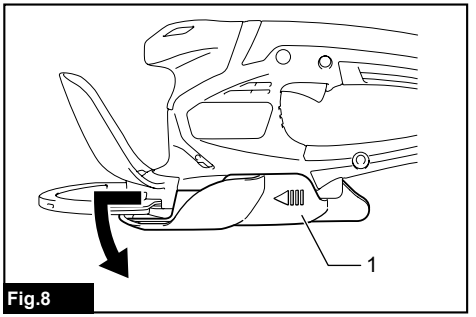
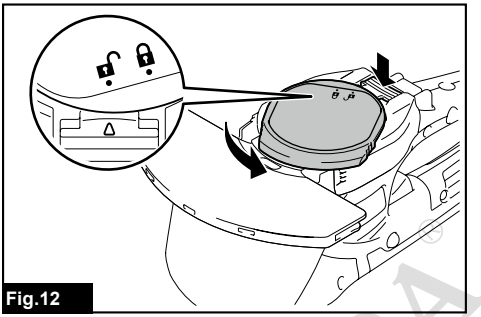


Fig.8


Fig.12

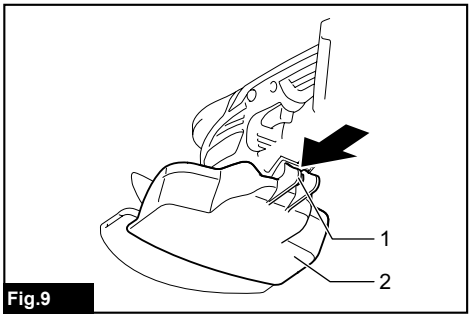


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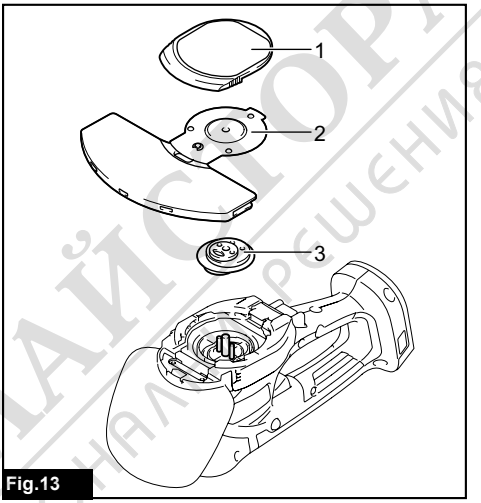
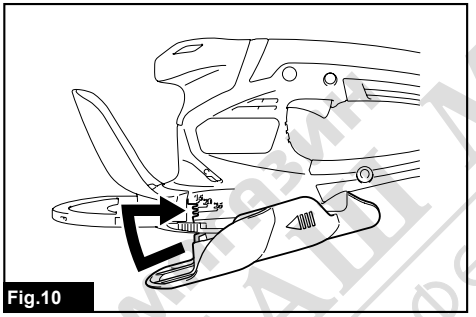


Fig.13


Fig.10

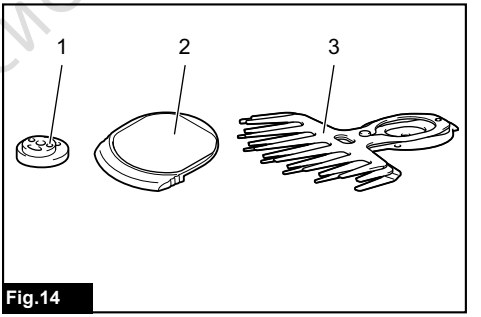
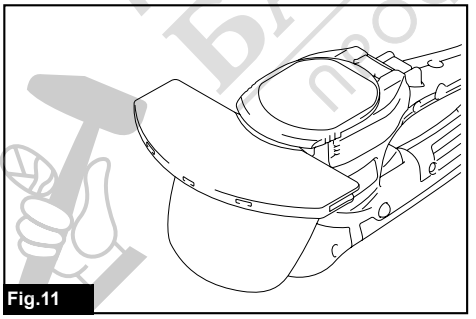
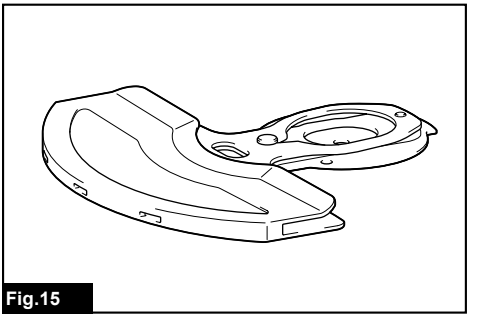


Fig.14


Fig.11


Fig.15

МАЙСТОРА
ВАШ
професионални решения

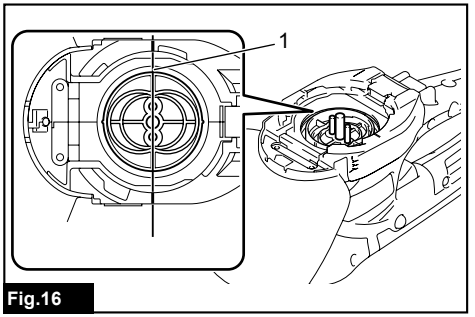


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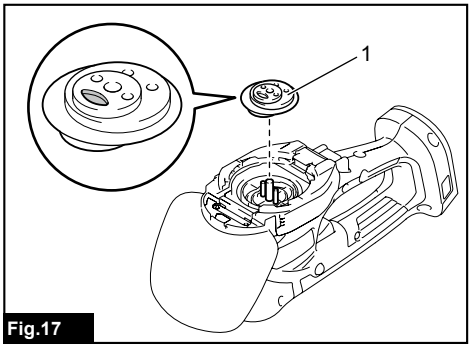
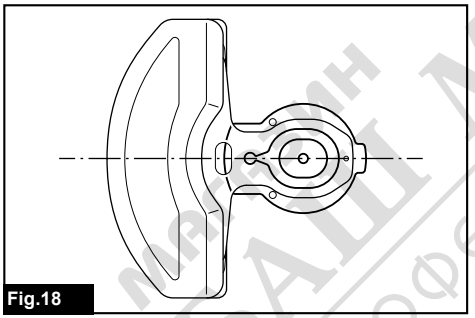
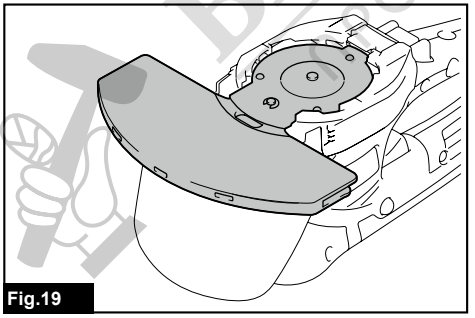
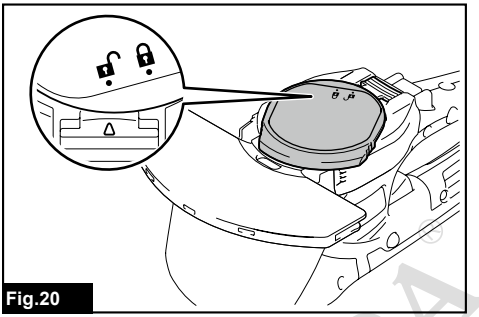
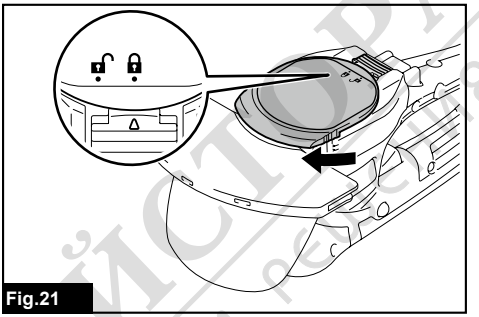


Fig.17


Fig.18


Fig.19


Fig.20


Fig.21

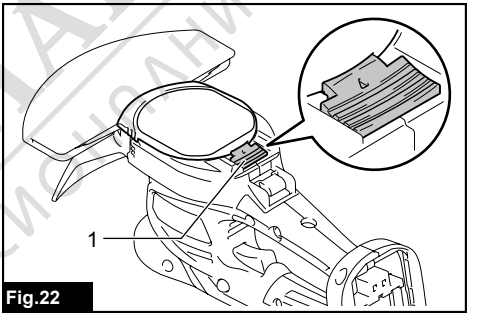
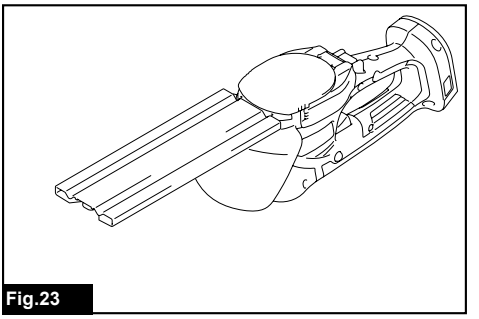
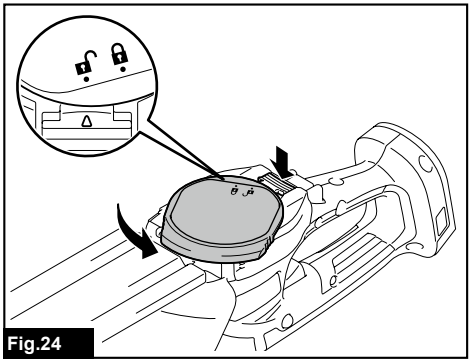
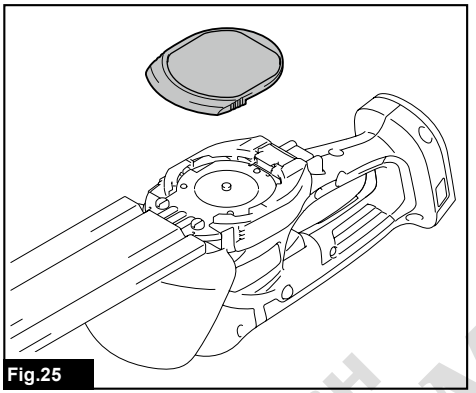


Fig.22


Fig.23

МАЙСТЕР
ВАШ МАЙСТЕР
професійні рішення


Fig.24


Fig.25

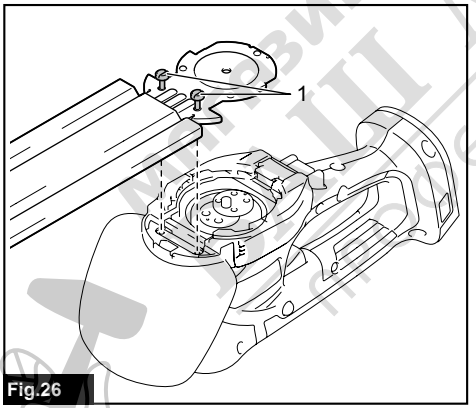


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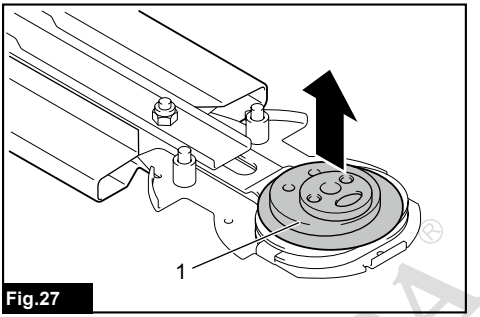


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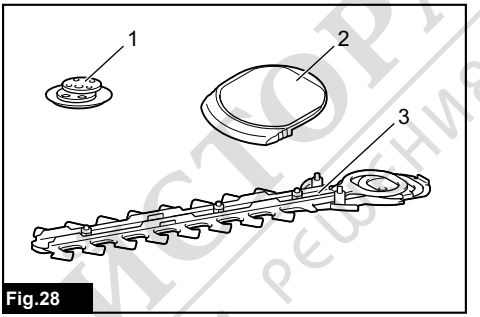
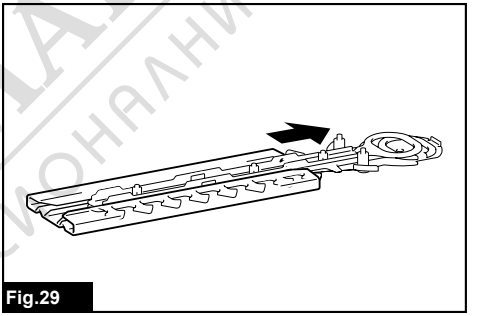


Fig.28


Fig.29

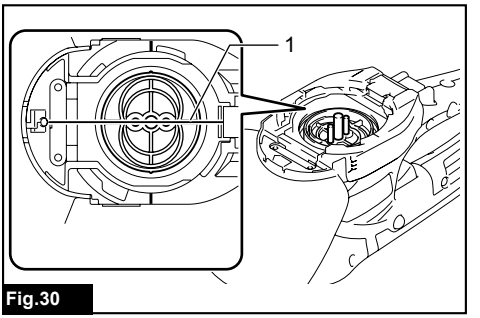


Fig.30

МАЙСТОРА
професионални ремонти

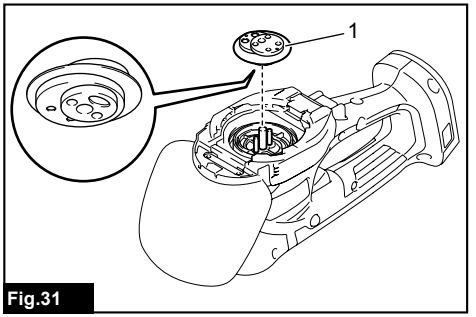
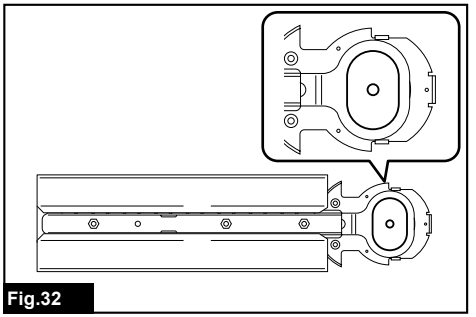


Fig.31


Fig.32

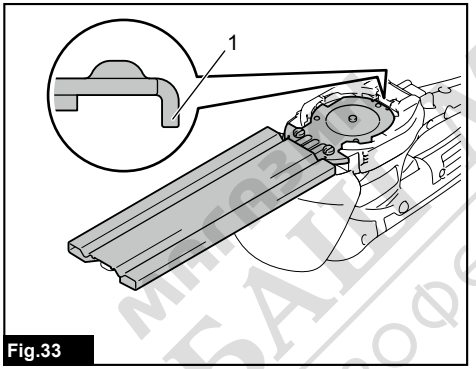


Fig.33

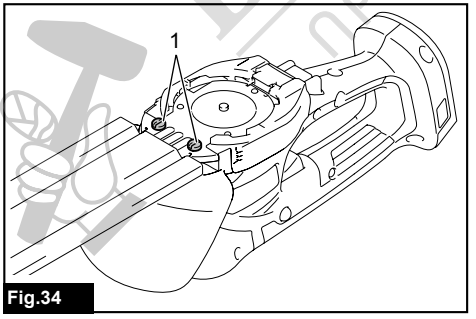
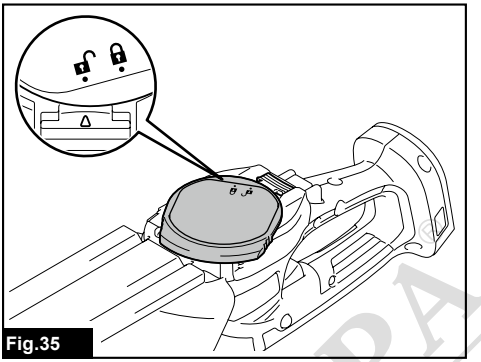
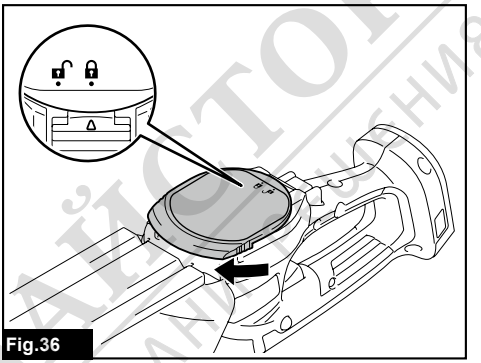


Fig.34


Fig.35


Fig.36

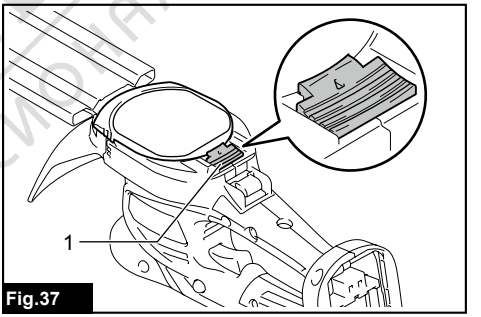


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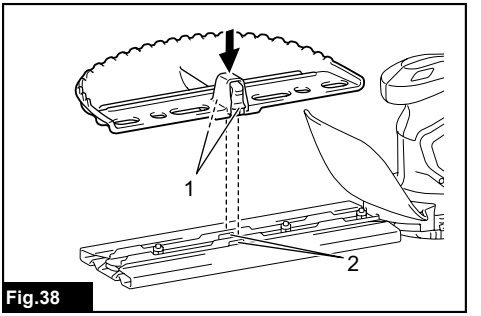


Fig.38

МАЙСТОРА
БАЙ
ПРОФЕСИОНАЛНИ

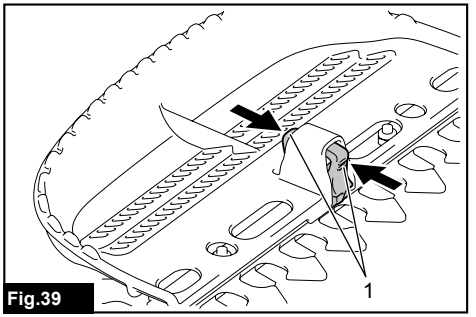
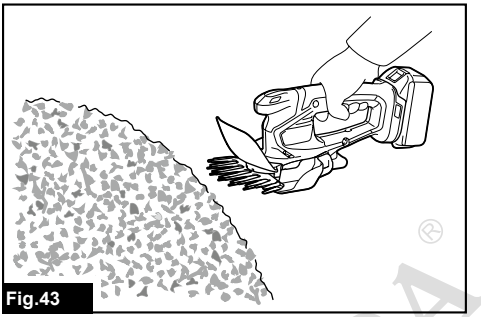
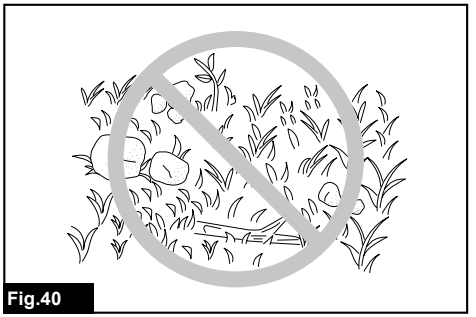
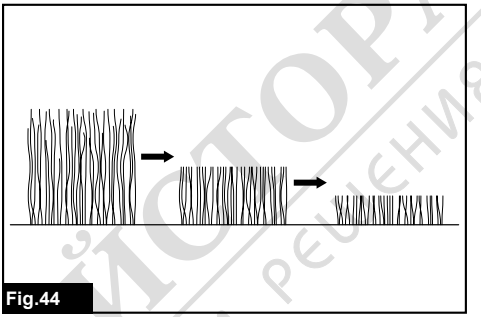
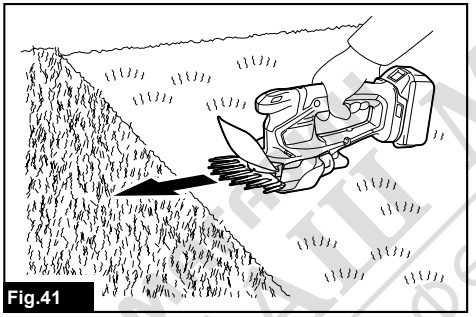


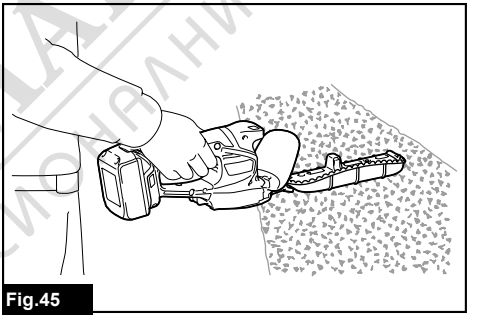
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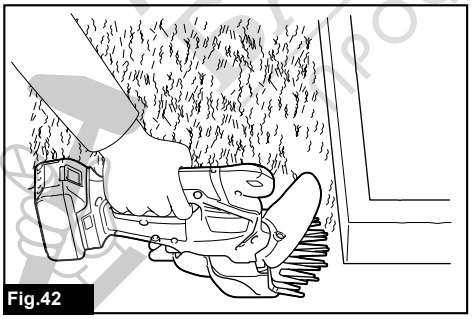

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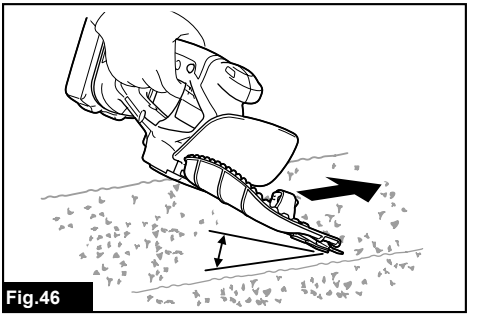

Fig.40


Fig.44


Fig.41


Fig.45


Fig.42


Fig.46

МАЙСТОРА
професионални решения

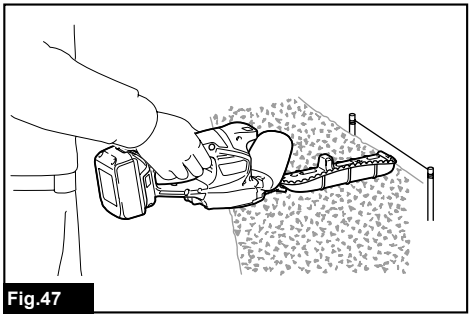


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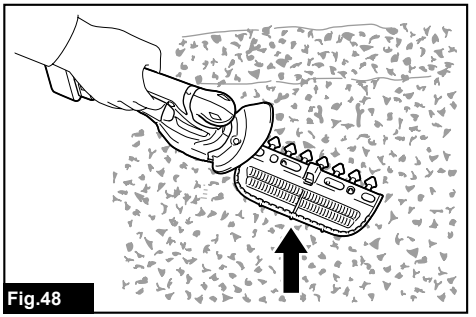


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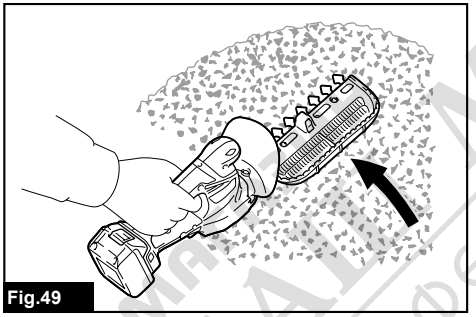


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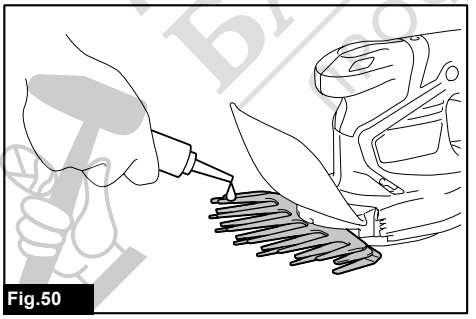


Fig.50

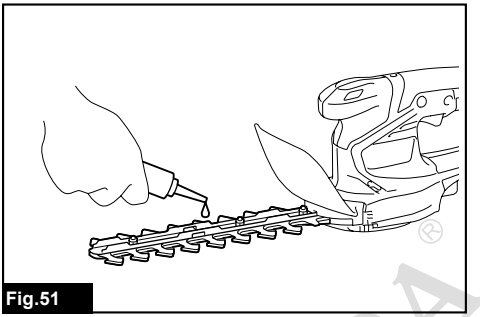


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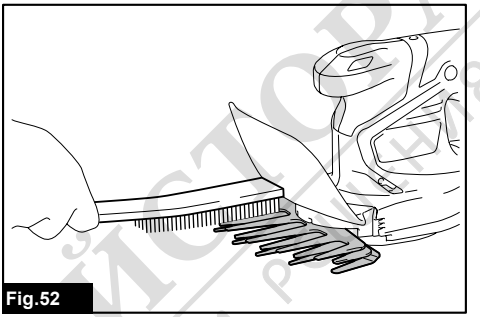


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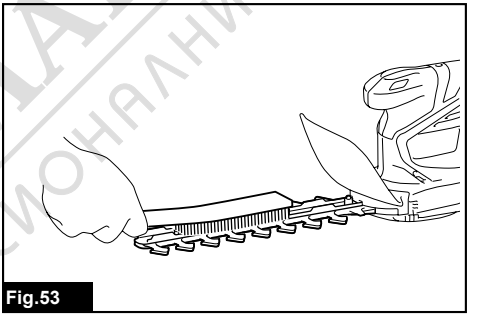


Fig.53

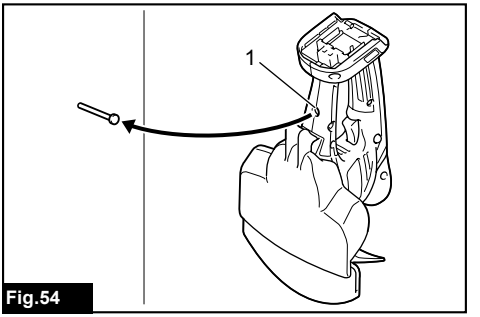


Fig.54

МАЙСТОРА
ПРОФЕСИОНАЛНИ РЕШЕНИЯ

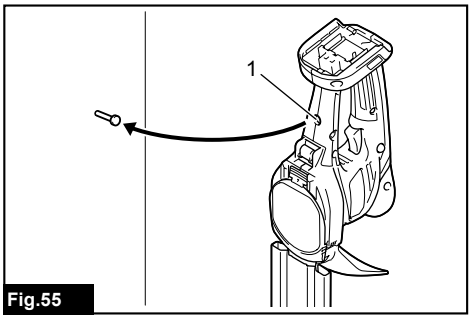


Fig.55

МАГАЗИН БАШ МАЙСТОРА ПРОФЕСИОНАЛНИ РЕШЕНИЯ

SPECIFICATIONS

Model:	DUM604
Cutting width	160 mm
Strokes per minute	2,500 min^{-1}
Dimensions (L x W x H)	353 mm x 177 mm x 131 mm
Rated voltage	D.C. 18 V
Battery cartridge	BL1815 / BL1815N / BL1820 / BL1820B / BL1830 / BL1830B / BL1840 / BL1840B / BL1850 / BL1850B / BL1860B
Net weight	1.4 - 1.8 kg

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications and battery cartridge may differ from country to country.
- Weight, with battery cartridge, according to EPTA-Procedure 01/2003

Symbols

The following show the symbols used for the equipment. Be sure that you understand their meaning before use.


Take particular care and attention.


Read instruction manual.


Danger; be aware of thrown objects.


Keep bystanders away.


Cutting means continues to run after the motor is switched off.


Do not expose to moisture.



Only for EU countries
Do not dispose of electric equipment or battery pack together with household waste material!
In observance of the European Directives, on Waste Electric and Electronic Equipment and Batteries and Accumulators and Waste Batteries and Accumulators and their implementation in accordance with national laws, electric equipment and batteries and battery pack(s) that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

Intended use

The tool is intended for cutting lawn edges or sprouts.

Noise

The typical A-weighted noise level determined according to EN50636:

DUM604 with shear blade for grass shear installed
Sound pressure level (L_{pA}) : 76 dB(A)
Uncertainty (K) : 0.98 dB(A)

The noise level under working may exceed 80 dB (A).

⚠*WARNING:* Wear ear protection.

The typical A-weighted noise level determined according to EN60745:

DUM604 with shear blade for hedge trimmer installed
Sound pressure level (L_{pA}) : 74 dB(A)
Uncertainty (K) : 3 dB(A)

The noise level under working may exceed 80 dB (A).

⚠*WARNING:* Wear ear protection.

Vibration

The vibration total value (tri-axial vector sum) determined according to EN50636:

DUM604 with shear blade for grass shear installed
Vibration emission (a_h) : 2.5 m/s^2 or less
Uncertainty (K) : 1.5 m/s^2

The vibration total value (tri-axial vector sum) determined according to EN60745:

DUM604 with shear blade for hedge trimmer installed
Vibration emission (a_h) : 2.5 m/s^2 or less
Uncertainty (K) : 1.5 m/s^2

NOTE: The declared vibration emission value has been measured in accordance with the standard test method and may be used for comparing one tool with another.

NOTE: The declared vibration emission value may also be used in a preliminary assessment of exposure.

⚠***WARNING:*** The vibration emission during actual use of the power tool can differ from the declared emission value depending on the ways in which the tool is used.

⚠***WARNING:*** Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

EC Declaration of Conformity

For European countries only

The EC declaration of conformity is included as Annex A to this instruction manual.

SAFETY WARNINGS

General power tool safety warnings

⚠***WARNING:*** **Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Cordless Grass Shear Safety Warnings

General instructions

1. **To ensure correct operation, user has to read this instruction manual to make himself familiar with the handling of the equipment.** Users insufficiently informed will risk danger to themselves as well as others due to improper handling.
2. **Never allow children, persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge or people unfamiliar with these instructions to use the machine, local regulations may restrict the age of the operator.**
3. **Use the equipment with the utmost care and attention.**
4. **Operate the equipment only if you are in good physical condition. Perform all work calmly and carefully. Use common sense and keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.**
5. **Never operate the machine while people, especially children, or pets are nearby.**
6. **The motor is to be switched off immediately in case that the equipment shows any problem or abnormal sign.**
7. **Switch off and remove the battery cartridge when resting and when leaving the equipment unattended, and place it in a safe location to prevent danger to others or damage to the equipment.**
8. **Avoid using the machine in bad weather conditions especially when there is a risk of lightning.**

Personal protective equipment

1. **Wear eye protection and stout shoes at all times while operating the machine.**
2. **Always wear substantial footwear and long trousers while operating the machine.**

Starting up the equipment

1. **Make sure that there are no children or other people nearby, also pay attention to any animals in the working vicinity.** Otherwise stop using the equipment.
2. **Before use always check that the equipment is safe for operation. Check the security of the cutting tool and the guard and the switch trigger/lever for easy and proper action. Check for clean and dry handles and test the function of the start/stop.**
3. **Check damaged parts before further use of the equipment. A guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by our authorized service center unless indicated elsewhere in this manual.**
4. **Switch on the motor only when the hands and feet are away from the cutting tool.**
5. **Before starting make sure that the cutting tool has no contact with any objects.**

Method of operation

1. **Only use the equipment in good light and visibility. During the winter season beware of slippery or wet areas, ice and snow (risk of slipping). Always ensure a safe footing on slopes and be sure to walk and never run.**
2. **Take care against injury to feet and hands from the cutting tool.**
3. **Never stand on a ladder and run the equipment.**
4. **Never climb up into trees to perform cutting operation with the equipment.**

5. **Never work on unstable surfaces.**
6. **Remove sand, stones, nails etc. found within the working range.** Foreign particles may damage the cutting tool and can cause dangerous kick-backs.
7. **Should the cutting tool hit stones or other hard objects, immediately switch off the motor and inspect the cutting tool.**
8. **Inspect the cutting tool at short regular intervals for damage (detection of hairline cracks by means of tapping-noise test).**
9. **Before commencing cutting, the cutting tool must have reached full working speed.**
10. **The cutting tool has to be equipped with the appropriate guard. Never run the equipment with damaged guards or without guards in place!**
11. **All protective installations and guards supplied with the equipment must be used during operation.**
12. **Always remove the battery cartridge from the equipment:**
    - **whenever leaving the equipment unattended;**
    - **before clearing a blockage;**
    - **before checking, cleaning or working on the equipment;**
    - **after striking a foreign object;**
    - **whenever the equipment starts vibrating abnormally.**
13. **Always ensure that the ventilation openings are kept clear of debris.**
14. **Cutting means continues to run after the motor is switched off.**

Cutting Tools

Employ only the correct cutting tool for the job in hand.

Maintenance instructions

1. **The condition of the equipment, in particular of the cutting tool of the protective devices must be checked before commencing work.**
2. **Turn off the motor and remove the battery cartridge before carrying out maintenance, replacing cutting tools or cleaning the equipment or cutting tool.**
3. **When not in use, store the equipment indoors in dry and high or locked-up place - out of the reach of children. Clean and maintain before storage.**

SAVE THESE INSTRUCTIONS.

⚠*WARNING:* DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

Cordless Hedge Trimmer Safety Warnings

1. **Keep all parts of the body away from the cutter blade. Do not remove cut material or hold material to be cut when blades are moving. Make sure the switch is off when clearing jammed material.** A moment of inattention while operating the hedge trimmer may result in serious personal injury.
2. **Carry the hedge trimmer by the handle with the cutter blade stopped. When transporting or storing the hedge trimmer always fit the cutting device cover.** Proper handling of the hedge trimmer will reduce possible personal injury from the cutter blades.
3. **Hold the power tool by insulated gripping surfaces only, because the cutter blade may contact hidden wiring.** Cutter blades contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
4. **Do not use the hedge trimmer in the rain or in wet or very damp conditions.** The electric motor is not waterproof.
5. **First-time users should have an experienced hedge trimmer user show them how to use the trimmer.**
6. **The hedge trimmer must not be used by children or young persons under 18 years of age.** Young persons over 16 years of age may be exempted from this restriction if they are undergoing training under the supervision of an expert.
7. **Use the hedge trimmer only if you are in good physical condition.** If you are tired, your attention will be reduced. Be especially careful at the end of a working day. Perform all work calmly and carefully. The user is responsible for all damages to third parties.
8. **Never use the trimmer when under the influence of alcohol, drugs or medication.**
9. **Work gloves of stout leather are part of the basic equipment of the hedge trimmer and must always be worn when working with it. Also wear sturdy shoes with anti-skid soles.**
10. **Before starting work check to make sure that the trimmer is in good and safe working order. Ensure guards are fitted properly. The hedge trimmer must not be used unless fully assembled.**
11. **Make sure you have a secure footing before starting operation.**
12. **Hold the tool firmly when using the tool.**
13. **Do not operate the tool at no-load unnecessarily.**
14. **Immediately switch off the motor and remove the battery cartridge if the cutter should come into contact with a fence or other hard object. Check the cutter for damage, and if damaged repair immediately**.
15. **Before checking the cutter, taking care of faults, or removing material caught in the cutter, always switch off the trimmer and remove the battery cartridge.**

16. **Switch off the trimmer and remove the battery cartridge before doing any maintenance work.**
17. **When moving the hedge trimmer to another location, including during work, always remove the battery cartridge and put the blade cover on the cutter blades. Never carry or transport the trimmer with the cutter running. Never grasp the cutter with your hands.**
18. **Clean the hedge trimmer and especially the cutter after use, and before putting the trimmer into storage for extended periods. Lightly oil the cutter and put on the cover.** The cover supplied with the unit can be hung on the wall, providing a safe and practical way to store the hedge trimmer.
19. **Store the hedge trimmer with the cover on, in a dry room. Keep it out of reach of children. Never store the trimmer outdoors.**

SAVE THESE INSTRUCTIONS.

⚠*WARNING:* DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

Important safety instructions for battery cartridge

1. **Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.**
2. **Do not disassemble battery cartridge.**
3. **If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.**
4. **If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.**
5. **Do not short the battery cartridge:**
   (1) **Do not touch the terminals with any conductive material.**
   (2) **Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.**
   (3) **Do not expose battery cartridge to water or rain.**

   A battery short can cause a large current flow, overheating, possible burns and even a breakdown.
6. **Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50 °C (122 °F).**
7. **Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.**
8. **Be careful not to drop or strike battery.**
9. **Do not use a damaged battery.**
10. **The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements.**
    For commercial transports e.g. by third parties, forwarding agents, special requirement on packaging and labeling must be observed.
    For preparation of the item being shipped, consulting an expert for hazardous material is required.
    Please also observe possibly more detailed national regulations.
    Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging.
11. **Follow your local regulations relating to disposal of battery.**

SAVE THESE INSTRUCTIONS.

⚠*CAUTION:* Only use genuine Makita batteries. Use of non-genuine Makita batteries, or batteries that have been altered, may result in the battery bursting causing fires, personal injury and damage. It will also void the Makita warranty for the Makita tool and charger.

Tips for maintaining maximum battery life

1. **Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.**
2. **Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.**
3. **Charge the battery cartridge with room temperature at 10 °C - 40 °C (50 °F - 104 °F). Let a hot battery cartridge cool down before charging it.**
4. **Charge the battery cartridge if you do not use it for a long period (more than six months).**

FUNCTIONAL DESCRIPTION

⚠*CAUTION:* Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking function on the tool.

Using the tool as cordless hedge trimmer

This tool can be used as a cordless hedge trimmer by installing the shear blades for hedge trimmer (optional accessory).

Installing or removing battery cartridge

⚠*CAUTION:* Always switch off the tool before installing or removing of the battery cartridge.

⚠*CAUTION:* Hold the tool and the battery cartridge firmly when installing or removing battery cartridge. Failure to hold the tool and the battery cartridge firmly may cause them to slip off your hands and result in damage to the tool and battery cartridge and a personal injury.

► **Fig.1:** **1.** Red indicator **2.** Button **3.** Battery cartridge

To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge.

To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click. If you can see the red indicator on the upper side of the button, it is not locked completely.

⚠*CAUTION:* Always install the battery cartridge fully until the red indicator cannot be seen. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.

⚠*CAUTION:* Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.

Indicating the remaining battery capacity

Only for battery cartridges with the indicator

► **Fig.2:** **1.** Indicator lamps **2.** Check button

Press the check button on the battery cartridge to indicate the remaining battery capacity. The indicator lamps light up for few seconds.

Indicator lamps			Remaining capacity
Lighted	Off	Blinking	
	■ ■ ■ ■		75% to 100%
	■ ■ ■ □		50% to 75%
	■ ■ □ □		25% to 50%
	■ □ □ □		0% to 25%
	◪ □ □ □		Charge the battery.
	■ ■ □ □ ↑ ↓ □ □ ■ ■		The battery may have malfunctioned.

NOTE: Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.

Tool / battery protection system

The tool is equipped with a tool/battery protection system. This system automatically cuts off power to the motor to extend tool and battery life. The tool will automatically stop during operation if the tool or battery is placed under one of the following conditions:

Overload protection

When the battery is operated in a manner that causes it to draw an abnormally high current, the tool automatically stops. In this situation, turn the tool off and stop the application that caused the tool to become overloaded. Then turn the tool on to restart.

Overheat protection

When the tool or battery is overheated, the tool stops automatically and the lamp blinks. In this case, let the tool and battery cool before turning the tool on again.

Overdischarge protection

When the battery capacity is not enough, the tool stops automatically. In this case, remove the battery from the tool and charge the battery.

Switch action

⚠*WARNING:* Before installing the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

⚠*WARNING:* For your safety, this tool is equipped with the lock-off button which prevents the tool from unintended starting. Never use the tool if it starts when you pull the switch trigger without pressing the lock-off button. Ask your local Makita Service Center for repairs.

⚠*WARNING:* Never disable the lock function or tape down the lock-off button.

***NOTICE:* Do not pull the switch trigger forcibly without pressing the lock-off button.** The switch may break.

► **Fig.3: 1.** Switch trigger **2.** Lock-off button

To start the tool, depress the lock-off button and pull the switch trigger. Release the switch trigger to stop. The lock-off button can be pressed from either the right or left side.

Indicator lamp

The indicator lamp blinks or lights up when the remaining battery capacity is low or empty. The indicator lamp also lights up when the tool becomes overloaded.
► **Fig.4: 1.** Indicator lamp

Lamp status and action to be taken

Indicator lamp	Status	Action to be taken
The lamp blinks red.	The remaining battery capacity is low.	Charge the battery.
The lamp lights up red. *	The tool has stopped because the remaining battery capacity is empty.	Charge the battery.
	The tool has stopped due to overload.	Turn off the tool.

* The time at which the indicator lamp lights up varies depending on the temperature around the work area and the battery cartridge conditions.

Adjusting the shearing height (for grass shear)

⚠*CAUTION:* When changing the shearing height, be sure to attach the blade cover and be careful not to trap fingers between the tool and grass receiver.

The shearing height can be set to three levels (15 mm, 20 mm, and 25 mm) by changing the fixed position of the grass receiver. The shearing height without the grass receiver is about 10 mm.

1. Slide the grass receiver toward the front of the tool.
► **Fig.5: 1.** Grass receiver

2. Change the fixed position of the grass receiver by moving it in the direction of the arrow.
► **Fig.6**

NOTE: The shearing height value is a guideline. The actual shearing height may vary depending on the condition of the lawn or the ground.

NOTE: Try a test shearing in a less conspicuous place to get your desired height.

ASSEMBLY

⚠*CAUTION:* Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.

⚠*CAUTION:* When replacing the shear blades, always wear gloves and attach the blade cover so that your hands and face do not directly contact the blades.

***NOTICE:* When replacing the shear blades, do not wipe off grease from the gear and crank.**

Installing or removing the blade cover

⚠*CAUTION:* Be careful not to touch the blades when installing or removing the blade cover.

To remove the blade cover, pull it slightly, and then slide it sideways. To install the blade cover, perform the steps in reverse.
► **Fig.7**

Installing or removing the grass receiver

⚠*CAUTION:* When installing or removing the grass receiver, be sure to attach the blade cover and be careful not to trap your fingers between the tool and grass receiver.

Removing the grass receiver

1. Release the protrusions on the grass receiver from the grooves on the tool while sliding the grass receiver toward the front of the tool.
► **Fig.8: 1.** Grass receiver

2. Release the hinge of the grass receiver from the tool.

Installing the grass receiver

1. Hook the hinge of the grass receiver on the groove of the tool.
► **Fig.9: 1.** Hinge **2.** Grass receiver

2. Align the protrusions on the grass receiver with the grooves on the tool by sliding the grass receiver toward the front of the tool and moving it in the direction of the arrow.
► **Fig.10**

***NOTICE:* Do not attach the hinge of the grass receiver to the tool forcibly after aligning the protrusions on the grass receiver with the grooves on the tool.**

Installing or removing the shear blades for grass shear

Removing the shear blades

1. Remove the grass receiver and place the tool upside down.
► **Fig.11**

2. While pressing the lock lever, turn the undercover counterclockwise until 🔓 on the undercover is aligned with △ on the lock lever.
► **Fig.12**

3. Remove the undercover, shear blades, and crank.
► **Fig.13: 1.** Undercover **2.** Shear blades **3.** Crank

Installing the shear blades

1. Prepare the crank, undercover, and new shear blades.
► **Fig.14: 1.** Crank **2.** Undercover **3.** Shear blades

2. Remove the blade cover from the old shear blades, and then attach it to the new ones.
► **Fig.15**

3. Adjust the three pins so that they are lined up on the alignment line.
► **Fig.16: 1.** Alignment line

4. Apply a small amount of grease to the periphery of the crank. Attach the crank to the pins with the small and large rounds facing up.
► **Fig.17: 1.** Crank

5. Adjust the blades and base plate so that the hole in the base plate and the two protrusions on the blades are lined up.
► **Fig.18**

6. Turn the shear blades upside down and install them so that the pins on the tool fit in the hole on the base plate. Make sure that the shear blades are fixed securely in place.
► **Fig.19**

7. Place the undercover so that 🔓 on the undercover is aligned with △ on the lock lever.
► **Fig.20**

8. While pressing the undercover, turn the undercover clockwise until 🔒 on the undercover is aligned with △ on the lock lever.
► **Fig.21**

9. Make sure that the lock lever fits in the groove on the undercover.
► **Fig.22: 1.** Lock lever

⚠*CAUTION:* Never use the tool without installing the undercover.

10. Remove the blade cover, and then turn on the tool to check that it works properly.

***NOTICE:* If the shear blades do not operate properly, the blades are not engaging the crank properly. Remove the blades and install them again.**

Installing or removing shear blades for hedge trimmer

Optional accessory

⚠*CAUTION:* Attach the blade cover before removing or installing the shear blades.

Removing shear blades

1. Place the tool upside down.
► **Fig.23**

2. While pressing the lock lever, turn the undercover counterclockwise until 🔓 on the undercover is aligned with △ on the lock lever.
► **Fig.24**

3. Remove the undercover.
► **Fig.25**

4. Loosen two screws with a screwdriver and remove the shear blades.
► **Fig.26: 1.** Screws

NOTE: The shear blades can be removed without removing the screws.

5. Remove the crank from the shear blades.
► **Fig.27: 1.** Crank

NOTE: The crank may remain in the tool.

NOTE: Attach the blade cover and the storage case to the removed shear blades, and then store the blades.

Installing shear blades

1. Prepare the crank, undercover, and new shear blades.
► **Fig.28: 1.** Crank **2.** Undercover **3.** Shear blades

2. Attach the blade cover to the shear blades.
► **Fig.29**

3. Adjust the three pins so that they are lined up on the alignment line.
► **Fig.30: 1.** Alignment line

4. Apply a small amount of grease to the periphery of the crank. Attach the crank to the pins with its small and large rounds facing down.
► **Fig.31: 1.** Crank

5. Slide the shear blades so that the hole on the base plate is positioned at the center of the rings of blades.
► **Fig.32**

6. Turn the shear blades upside down and install them so that the pin on the tool fits in the hole on the shear blades. Insert the claw of the base plate into the groove on the tool. Make sure that the shear blades are fixed securely in place.

► **Fig.33: 1.** Claw

7. Tighten the two screws firmly with a screwdriver.
► **Fig.34: 1.** Screws

8. Place the undercover so that 🔓 on the undercover is aligned with △ on the lock lever.
► **Fig.35**

9. While pressing the undercover, turn the undercover clockwise until 🔒 on the undercover is aligned with △ on the lock lever.
► **Fig.36**

10. Make sure that the lock lever fits in the groove on the undercover.
► **Fig.37: 1.** Lock lever

> ⚠ ***CAUTION:*** **Never use the tool without installing the undercover.**

11. Remove the blade cover, and then turn on the tool to check if the tool works properly.

> ***NOTICE:*** **If the shear blades do not operate properly, the blades are not engaging the crank properly. Remove the blades and install them again.**

Installing or removing the chip receiver

Optional accessory

> ⚠ ***CAUTION:*** **When installing or removing the chip receiver, always wear gloves and attach the blade cover so that your hands and face do not directly contact the blade.**

The chip receiver gathers discarded leaves and makes clean-up afterward much easier. It can be installed on either side of the tool.

To install the chip receiver, press it against the shear blades so that the hooks fit into the holes of the shear blades.
► **Fig.38: 1.** Hooks **2.** Holes

To remove the chip receiver, press the levers on both sides to release the hooks.
► **Fig.39: 1.** Levers

> ***NOTICE:*** **Never try to remove the chip receiver by an excessive force with its hooks locked in the holes of the blades.**

OPERATION

> ⚠ ***WARNING:*** **Before shearing, clear away sticks and stones from the shearing area. Furthermore, clear away any weeds from the shearing area in advance.**

► **Fig.40**

> ⚠ ***WARNING:*** **Keep hands away from blades.**

> ⚠ ***CAUTION:*** **Avoid operating the tool in very hot weather as much as practicable. When operating the tool, be careful of your physical condition.**

Shearing (for grass shear)

Turn the tool on after adjusting the shearing height and hold it so that the bottom of the tool rests on the ground. Gently move the tool forward.
► **Fig.41**

When trimming around curbs, fences or trees, move the tool along them. Be careful that the blades do not come into contact with them.
► **Fig.42**

When trimming sprouts or foliage of a small tree, trim little by little.
► **Fig.43**

Trim large branches to the desired height using branch cutters before using this tool.

> ***NOTICE:*** **Do not use the tool in a way that causes the motor to stop or to rotate extremely slowly.**

> ***NOTICE:*** **Do not attempt to cut thick branches.**

> ***NOTICE:*** **Do not allow the shear blades to contact the ground during operation. The blades will be dulled, causing poor performance.**

> ***NOTICE:*** **Do not trim the wet grass or foliage of small trees.**

Cutting long lawn

Do not try to cut long grass all at once. Instead, cut the lawn in steps. Leave a day or two between cuts until the lawn becomes evenly short.
► **Fig.44**

> **NOTE:** Cutting long grass to a short length all at once may cause the grass to die.

Trimming (for hedge trimmer)

> ⚠ ***CAUTION:*** **Be careful not to accidentally contact a metal fence or other hard objects while trimming.** The blades may break and cause an injury.

> ⚠ ***CAUTION:*** **Be careful not to allow the shear blades to contact the ground.** The tool may recoil and cause an injury.

> ⚠ ***CAUTION:*** **Overreaching with a hedge trimmer, particularly from a ladder, is extremely dangerous.** Do not work while standing on anything wobbly or infirm.

> ***NOTICE:*** **Do not attempt to cut branches thicker than 10 mm in diameter with the tool.** Cut branches to the desired height using branch cutters before using the tool.

NOTICE: **Do not cut down dead trees or similar hard objects.** Doing so may damage the tool.

NOTICE: **Do not trim the grass or weeds while using the shear blades.** The blades may become tangled in the grass or weeds.

Hold the tool with one hand, pull the switch trigger while pressing the lock-off button, and then move it forward.
► **Fig.45**

For basic operation, tilt the blades toward the trimming direction and move it calmly and slowly at the speed rate of 3 to 4 seconds per meter.
► **Fig.46**

To tie a string at the desired height and to trim along it help you to cut a hedge top evenly.
► **Fig.47**

If the chip receiver is attached to the blades, it gathers discarded leaves and makes clean-up afterward much easier.

To cut a hedge side evenly, cut from the bottom to top.
► **Fig.48**

When trimming to make a round shape (trimming boxwood or rhododendron, etc.), trim from the root to the top for a beautiful finish.
► **Fig.49**

MAINTENANCE

⚠CAUTION: **Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.**

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

Cleaning the tool

Clean the tool by wiping off dust with a dry cloth or one dipped in soapy water and wrung out.

NOTICE: **Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.**

Blade maintenance

Before the operation or once per hour during operation, apply low-viscosity oil (machine oil, or spray-type lubricating oil) to the blades.
► **Fig.50**

► **Fig.51**

After operation, remove dust from both sides of the blades with a wired brush, wipe it off with a cloth and then apply low-viscosity oil (machine oil, or spray-type lubricating oil) to the blades.
► **Fig.52**

► **Fig.53**

NOTICE: **Do not wash the blades in water.** Doing so may cause rust or damage to the tool.

NOTICE: **Dirt and corrosion cause excessive blade friction and shorten the operating time per battery charge.**

Storage

The hook hole in the tool bottom is convenient for hanging the tool from a nail or screw on the wall.
Attach the blade cover to the shear blades so that the blades are not exposed. Store the tool out of the reach of children. Store the tool in a place not exposed to moisture or rain.
► **Fig.54: 1.** Hole

► **Fig.55: 1.** Hole

OPTIONAL ACCESSORIES

⚠CAUTION: **These accessories or attachments are recommended for use with your Makita tool specified in this manual.** The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- Shear blade assembly (for grass shear use)
- Shear blade cover (for grass shear use)
- Grass receiver (for grass shear use)
- Long handle attachment (for grass shear use)
- Shear blade assembly (for hedge trimmer use)
- Shear blade cover (for hedge trimmer use)
- Chip receiver (for hedge trimmer use)
- Storage case
- Makita genuine battery and charger

NOTE: Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.