

INSTRUCTION MANUAL



Cordless Ground Trimmer

UG001G



Read before use.

SPECIFICATIONS

Model:		UG001G
Blade width		500 mm
Strokes per minute	Mode 2 (high-mode)	4,000 min ⁻¹
	Mode 1 (low-mode)	3,000 min ⁻¹
Dimensions in use (L x W x H)	Handle position: high	1,155 mm x 521 mm x 1,020 mm
	Handle position: middle	1,262 mm x 521 mm x 913 mm
	Handle position: low	1,345 mm x 521 mm x 791 mm
Dimensions when stored (L x W x H) (with blade cover, without battery)	Flat position	898 mm x 534 mm x 471 mm
	Upright position	599 mm x 534 mm x 905 mm
Rated voltage		D.C. 36 V - 40 V max
Net weight	*1	9.1 kg
	*2	9.8 - 11.0 kg
Protection degree		IPX4

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.

- Specifications may differ from country to country.

*1 : Weight without any accessories or battery cartridge(s)

*2 : The net weight value includes the lightest and heaviest combination of the attachment(s) for normal and safe use and battery cartridge(s) which are specified in the instruction manual.

Applicable battery cartridge and charger

Battery cartridge	BL4020 / BL4025 / BL4040 / BL4040F / BL4050F / BL4080F / BL4080H
Charger	DC40RA / DC40RB / DC40RC / DC40WA / BCC01 / BCC02

- Some of the battery cartridges and chargers listed above may not be available depending on your region of residence.

⚠ WARNING: Only use the battery cartridges and chargers listed above. Use of any other battery cartridges and chargers may cause injury and/or fire.

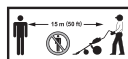
Symbols

The followings show the symbols which may be used for the equipment. Be sure that you understand their meaning before use.

	Take particular care and attention.
	Hot surfaces - Burns to fingers or hands.
	Read instruction manual.
	Wear a helmet and goggles.
	Wear ear protection.
	Wear protective gloves.



Wear sturdy boots with non-slip soles.



Keep bystanders and animals at least 15 m (50 ft) away from the power tool.



Danger; be aware of thrown objects.



DANGER - Keep hands away from blade.



Warning; Disconnect battery before maintenance.



Only for EU countries
Due to the presence of hazardous components in the equipment, waste electrical and electronic equipment, accumulators and batteries may have a negative impact on the environment and human health. Do not dispose of electrical and electronic appliances or batteries with household waste!
In accordance with the European Directive on waste electrical and electronic equipment and on accumulators and batteries and waste accumulators and batteries, as well as their adaptation to national law, waste electrical equipment, batteries and accumulators should be stored separately and delivered to a separate collection point for municipal waste, operating in accordance with the regulations on environmental protection.
This is indicated by the symbol of the crossed-out wheeled bin placed on the equipment.



Guaranteed sound power level according to EU Outdoor Noise Directive.



Sound power level according to Australia NSW Noise Control Regulation.

Intended use

The machine is intended for trimming grasses and weeds on the ground. Never use the machine for the other purpose such as lawn mowing. Misusing the machine may cause serious injury.

Noise

The typical A-weighted noise level determined according to EN12733:

Model	Sound pressure level		Guaranteed sound power level	Measured sound power level	
	L _{pA} (dB(A))	Uncertainty K (dB(A))	L _{WA} (dB(A))	L _{WA} (dB(A))	Uncertainty K (dB(A))
UG001G	73	3	90	88.4	1.7

NOTE: The declared noise emission value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.

NOTE: The declared noise emission value(s) can also be used in a preliminary assessment of exposure.

⚠ WARNING: Wear ear protection.

⚠ WARNING: The noise emission during actual use of the power tool can differ from the declared total value(s) 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).

Vibration

The continuous vibration total value (tri-axial vector sum) determined according to IEC62841-4-4:

Model	a _h (m/s ²)	Uncertainty K (m/s ²)
UG001G	0.9	1.5

NOTE: The declared vibration total value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.

NOTE: The declared vibration total value(s) can 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 total value(s) 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).

The following table shows the mean values of the peak amplitude of the acceleration from repeated shock vibrations, p_F , with corresponding uncertainty (K).

Model	p_F (m/s ²)	Uncertainty K (m/s ²)
UG001G	33	1

NOTE: These declared values should not be used to determine hand arm vibration exposure.

Declarations of Conformity

For European countries only

The EU/UK Declaration of Conformity can be accessed from the following URL.



https://support.makita.biz/doc/doc_index.html

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.

Work area safety

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

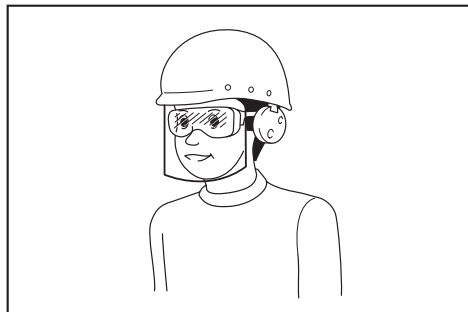
1. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
2. **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
3. **Do not operate the machine in rain or wet conditions.** Water entering the machine may increase the risk of electric shock or malfunction that could result in personal injury.

4. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
5. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
6. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.
7. **Power tools can produce electromagnetic fields (EMF) that are not harmful to the user.** However, users of pacemakers and other similar medical devices should contact the maker of their device and/or doctor for advice before operating this power tool.

Personal safety

1. **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 drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
2. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
3. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
4. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
5. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
6. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
7. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
8. **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

9. **Always wear protective goggles to protect your eyes from injury when using power tools.** The goggles must comply with ANSI Z87.1 in the USA, EN 166 in Europe, or AS/NZS 1336 in Australia/New Zealand. In Australia/New Zealand, it is legally required to wear a face shield to protect your face, too.



It is an employer's responsibility to enforce the use of appropriate safety protective equipments by the tool operators and by other persons in the immediate working area.

Power tool use and care

1. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
2. **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.
3. **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of striking the power tool accidentally.
4. **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.
5. **Maintain power tools and accessories.** Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
8. **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

9. **When using the tool, do not wear cloth work gloves which may be entangled.** The entanglement of cloth work gloves in the moving parts may result in personal injury.

Battery tool use and care

1. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
2. **Use power tools only with specifically designed battery packs.** Use of any other battery packs may create a risk of injury and fire.
3. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
4. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
5. **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
6. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
7. **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

Service

1. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
2. **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.
3. **Follow instruction for lubricating and changing accessories.**

Cordless Ground Trimmer Safety Warnings

1. **Do not use the ground trimmer in bad weather conditions, especially when there is a risk of lightning.** This decreases the risk of being struck by lightning.
2. **Keep all power cords and cables away from cutting area.** Power cords or cables may be hidden in hedges or bushes and can be accidentally cut by the blade.
3. **Wear ear protection.** Adequate protective equipment will reduce the risk of hearing loss.
4. **Hold the ground trimmer by insulated gripping surfaces only, because the blade may contact hidden wiring.** Blades contacting a "live" wire

may make exposed metal parts of the ground trimmer "live" and could give the operator an electric shock.

5. **Keep all parts of the body away from the blade. Do not remove cut material or hold material to be cut when blades are moving.** Blades continue to move after the switch is turned off. A moment of inattention while operating the ground trimmer may result in serious personal injury.
6. **When clearing jammed material or servicing the ground trimmer, make sure all power switches are off and the battery pack is removed or disconnected.** Unexpected actuation of the ground trimmer while clearing jammed material or servicing may result in serious personal injury.
7. **Carry the ground trimmer with the blade stopped and taking care not to operate any power switch.** Proper carrying of the ground trimmer will decrease the risk of inadvertent starting and resultant personal injury from the blades.
8. **When transporting or storing the ground trimmer, always use the blade cover.** Proper handling of the ground trimmer will decrease the risk of personal injury from the blades.

Additional Safety Instructions

Preparation

1. **To ensure correct operation, user has to read this instruction manual to make themselves familiar with the handling of the equipment.** Users insufficiently informed will risk danger to themselves as well as others due to improper handling.
2. **Check the grasses and bushes for foreign objects, such as wire fences or hidden wiring before operating the machine.**
3. **First-time users should have an experienced user show them how to use the machine.**
4. **Use the machine 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.
5. **Never use the machine when under the influence of alcohol, drugs or medication.**
6. **Work gloves of stout leather are part of the basic equipment of the machine and must always be worn when working with it. Also wear sturdy shoes with anti-skid soles.**
7. **Before starting work, make sure that the machine is in good and safe working condition. Ensure guards are fitted properly. The machine must not be used unless fully assembled.**
8. **Before operation, make sure that there is no buried object such as electric pipe, water pipe or gas pipe in the ground.** Otherwise, the machine may touch them, resulting in electric shock, electrical leakage or gas leak.
9. **Wear adequate noise protection equipment (e.g., ear muffs, ear plugs).** Long-term exposure to noise causes hearing loss.

Operation

1. **Hold the machine handles firmly with both hands when using the machine.**
2. **The machine is intended to be used by the operator at ground level. Do not use the machine on an unstable surface.**
3. **DANGER - Keep hands and feet away from blade.** Contact with blade will result in serious personal injury.
4. **Do not use the machine in the rain or in wet or very damp conditions.** The electric motor is not waterproof.
5. **Never operate the machine without good visibility or light. Always be sure of your footing, and keep a firm hold on the handles.**
6. **Make sure you have a secure footing before starting operation.**
7. **Do not operate the machine at no-load unnecessarily.**
8. **Immediately switch off the machine and remove the battery cartridge if the shear blades should come into contact with a fence or other hard object. Check the shear blades for damage, and if damaged, replace the shear blades immediately.**
9. **The motor is to be switched off immediately in case that the machine shows any problem or abnormal sign.**
10. **Switch off and remove the battery cartridge when resting and when leaving the machine unattended. Place the machine in a safe, flat location where it can stay still to prevent danger to others or damage to the machine.**
11. **Before checking the shear blades, taking care of faults, or removing material caught in the shear blades, always switch off the machine and remove the battery cartridge.**
12. **Never point the shear blades to yourself or others.**
13. **During operation, keep bystanders or animals at least 15 m (50 ft) away from the machine. Stop the machine as soon as someone approaches. When working with two or more people, keep a distance of at least 15 m (50 ft) or more between each other, and put a supervisor.**
14. **If the shear blades stop moving due to the stuck of foreign objects between the shear blades during operation, switch off the machine and remove the battery cartridge, and then remove the foreign objects using tools such as pliers. Removing the foreign objects by hand may cause an injury for the reason that the shear blades may move in reaction to removing the foreign objects.**
15. **Do not touch the shear blades, gear case or other metal parts immediately after operation; they may be extremely hot and could burn your skin.**
16. **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.

17. **When working on slopes, always be sure of your footing, always work across the face of slopes, never up or down and exercise extreme caution when changing direction.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
18. **Do not overreach. Keep the balance at all times. Always be sure of the footing on slopes. Walk, never run.**
19. **Never leave the machine unattended on slopes. Always make sure to securely place the machine on flat and level surface while it is not in use.**
If leaving the machine on a slope is unavoidable, take the same measures as on level surface to prevent the wheels from rolling.
20. **Occupational exposure to vibration when using hand operated machinery can lead to health effects. Reduce the time workers are exposed to vibration for long, continuous periods. Take intervals between the works or ensure adequate break periods whenever the workers feel overloaded.**

Electrical and battery safety

1. **Avoid dangerous environment. Do not use the tool in damp or wet locations or expose it to rain. Water entering the tool will increase the risk of electric shock.**
2. **Do not open or mutilate the battery(ies).** Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
3. **Do not replace the battery with wet hands.**
4. **Do not leave the battery in the rain, nor charge, use, or store the battery in a damp or wet place.**
5. **Do not wet the terminal of battery with liquid such as water, or submerge the battery.** If the terminal gets wet or liquid enters inside of battery, the battery may be short circuited and there is a risk of overheat, fire, or explosion.
6. **After removing the battery from the tool or charger, be sure to attach the battery cover to the battery and store it in a dry place.**
7. **If the battery cartridge gets wet, drain the water inside and then wipe it with a dry cloth. Dry the battery cartridge completely in a dry place before use.**

Maintenance and storage

1. **Switch off the machine and remove the battery cartridge before doing any maintenance work.**
2. **When moving the machine to another location, including during work, always remove the battery cartridge and put the blade cover on the shear blades. Never carry or transport the machine with the shear blades running. Never grasp the shear blades with your hands.**
3. **Inspect the cutting device at short regular intervals for damage (detection of hairline cracks by means of tapping-noise test).**
4. **Clean the machine and especially the shear blades after use, and before putting the machine into storage for extended periods. Lightly oil the shear blades and put on the blade cover.**

5. **Store the machine with the blade cover on, in a dry room. Keep it out of reach of children. Never store the machine outdoors.**
6. **Do not dispose of the battery(ies) in a fire. The cell may explode. Check with local codes for possible special disposal instructions.**

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 or tamper with the battery cartridge.** It may result in a fire, excessive heat, or explosion.
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 and use 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. **Do not nail, cut, crush, throw, drop the battery cartridge, or hit against a hard object to the battery cartridge.** Such conduct may result in a fire, excessive heat, or explosion.
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. **When disposing the battery cartridge, remove it from the tool and dispose of it in a safe place. Follow your local regulations relating to disposal of battery.**
12. **Use the batteries only with the products specified by Makita.** Installing the batteries to non-compliant products may result in a fire, excessive heat, explosion, or leak of electrolyte.
13. **If the tool is not used for a long period of time, the battery must be removed from the tool.**
14. **During and after use, the battery cartridge may take on heat which can cause burns or low temperature burns. Pay attention to the handling of hot battery cartridges.**
15. **Do not touch the terminal of the tool immediately after use as it may get hot enough to cause burns.**
16. **Do not allow chips, dust, or soil stuck into the terminals, holes, and grooves of the battery cartridge.** It may cause heating, catching fire, burst and malfunction of the tool or battery cartridge, resulting in burns or personal injury.
17. **Unless the tool supports the use near high-voltage electrical power lines, do not use the battery cartridge near high-voltage electrical power lines.** It may result in a malfunction or breakdown of the tool or battery cartridge.
18. **Keep the battery away from children.**

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.

NOTICE: Makita is not responsible for any accidents resulting from the use of non-genuine Makita batteries or batteries that have been modified. Genuine Makita batteries have been rigorously evaluated for compatibility with Makita tools and chargers, in line with applicable legislation and safety standards.

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. **When not using the battery cartridge, remove it from the tool or the charger.**
5. **Charge the battery cartridge if you do not use it for a long period (more than six months).**

PARTS DESCRIPTION

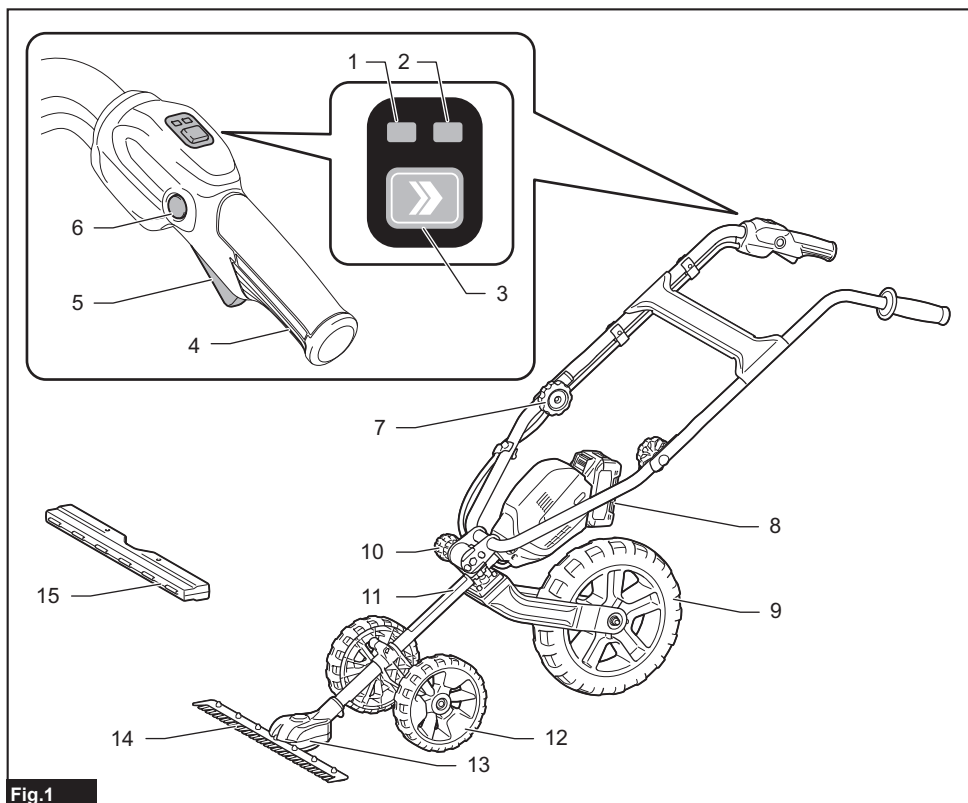


Fig.1

1	Mode 1 (low-mode) indication	2	Mode 2 (high-mode) indication	3	Mode button
4	Handle grip	5	Switch trigger	6	Lock-off button
7	Handle knob	8	Battery cartridge	9	Rear wheel
10	Handle adjustment knob	11	Shaft pipe	12	Front wheel
13	Gear case	14	Shear blades	15	Blade cover

ASSEMBLY

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

⚠CAUTION: Never start the machine unless it is completely assembled. Operation of the machine in a partially assembled state may result in serious personal injury.

⚠CAUTION: When replacing the shear blades, always wear gloves so that your hands do not directly contact the shear blades.

NOTICE: Place the machine on a clean, flat and stable surface free of excessive dust or moisture during assembly.

NOTICE: Install all the components correctly as instructed in this manual and secure them together by tightening the bolts with the supplied hex wrench.

NOTICE: Follow the original assembly steps in reverse to ensure safe restoration to factory settings. Keep all the components together to avoid losing them.

Shear blades installation

1. Place the machine on a flat surface so that the machine is supported by the grips and the front wheels.
2. Remove the cap from the shaft pipe end.

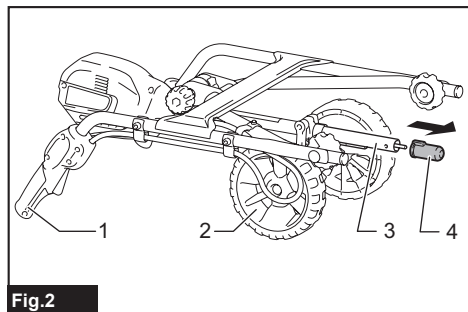


Fig.2

- 1. Grip 2. Front wheel 3. Shaft pipe 4. Cap

NOTE: Be careful not to let the drive shaft fall through the pipe.

NOTE: If the drive shaft sticks out of the shaft pipe far enough, push it back into the shaft pipe by turning the drive shaft until it returns to the appropriate position.

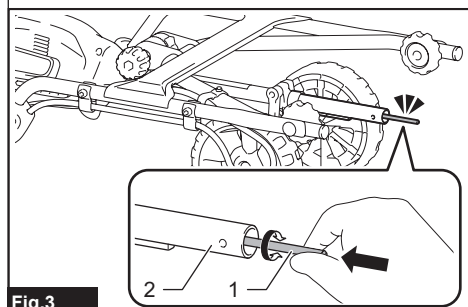


Fig.3

- 1. Drive shaft 2. Shaft pipe

NOTE: If there is oil on the shaft pipe, wipe the oil off before assembly.

3. Remove the cap from the shear blades unit.

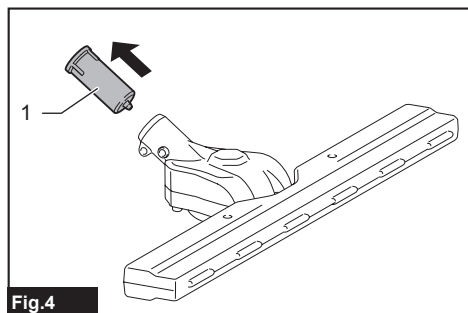


Fig.4

- 1. Cap

4. Attach the shear blades unit to the shaft pipe so that the hole on the shaft pipe is aligned with the hole on the shear blades unit.

5. Tighten the short hex socket head bolt first so that the shaft pipe and shear blades unit stay in place.

6. Secure the assembly by fastening the shaft pipe with the long hex socket head bolt.

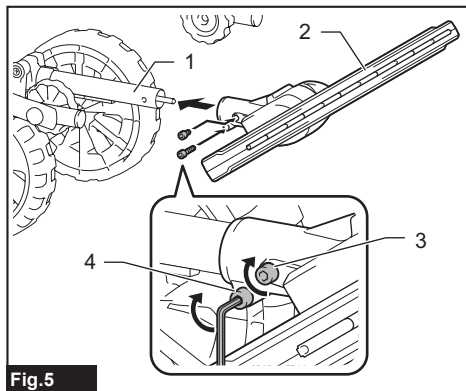


Fig.5

- 1. Shaft pipe 2. Shear blades unit 3. Short hex socket head bolt 4. Long hex socket head bolt

Rear wheel installation

1. Loosen the handle adjustment knob.
2. Raise the folded handle up until it stands upright against the shaft pipe, then tighten the handle adjustment knob firmly.

The assembly stands alone on the front wheels and handle grips, so you can easily attach the rear wheel.

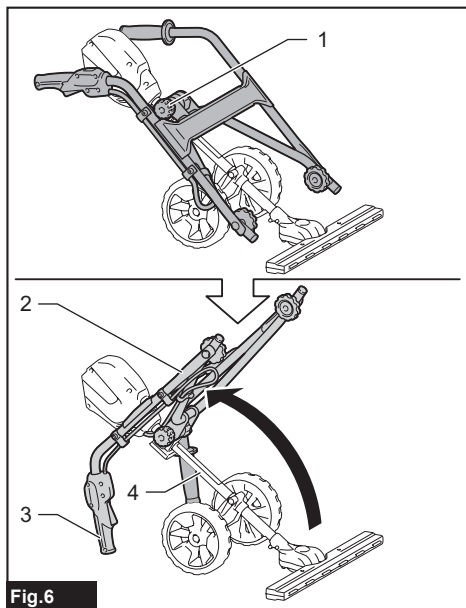


Fig.6

- 1. Handle adjustment knob 2. Handle 3. Grip 4. Shaft pipe

3. Attach the rear wheel fork to the wheel mount under the shaft pipe, mating the guide projection on the wheel mount with the engaging hole in the wheel fork.

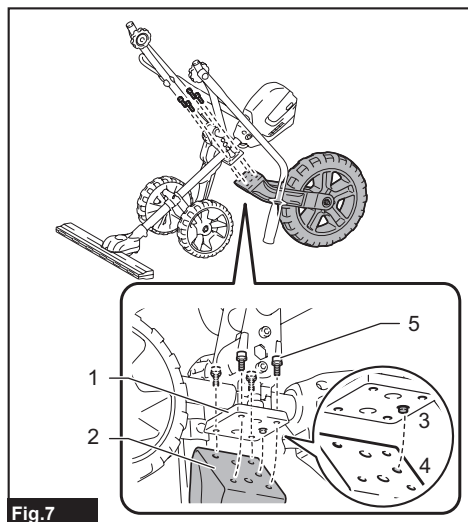


Fig. 7

- 1. Wheel mount 2. Wheel fork 3. Guide projection
4. Engaging hole 5. Hex socket head bolt

4. Cross tighten the four hex socket head bolts so that no gap appears in the assembly.

Unfolding the handle

NOTICE: Be careful not to pinch the cord between the handle components during installation. A damaged cord may result in machine malfunction.

NOTICE: Be careful not to twist the cord while assembling handle.

NOTICE: Direct your attention not to hook the cord on the knobs while folding and unfolding the handle.

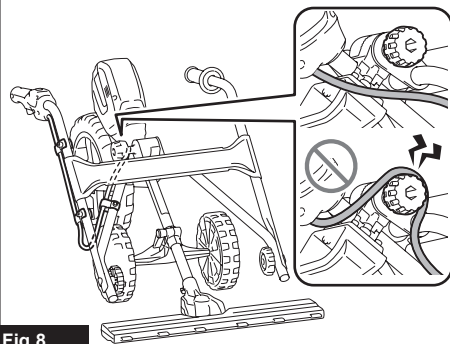


Fig. 8

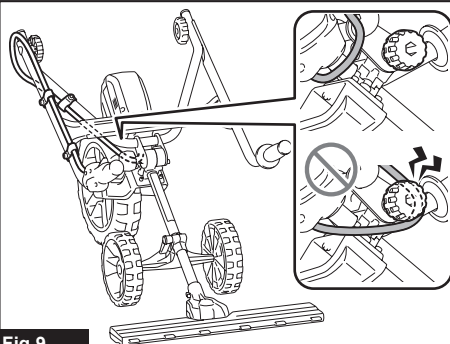


Fig. 9

1. Loosen the handle adjustment knob.

2. Loosen the handle knobs until the middle threaded section of the bolts are completely disengaged.

The bolts of the handle knobs are partially non-threaded, so the threaded section is separated into the middle section and the tip section.

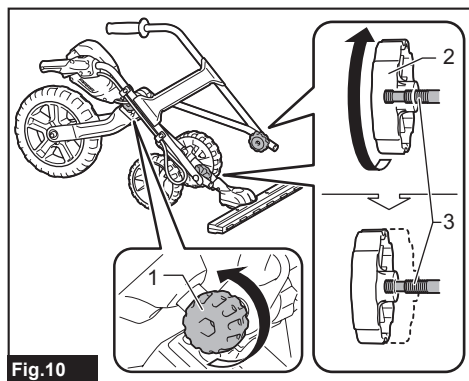


Fig.10

- 1. Handle adjustment knob 2. Handle knob
3. Middle threaded section

3. Unfold the handle into the operating position.

To move the handle connection freely, push the handle knob outward to release the connection.

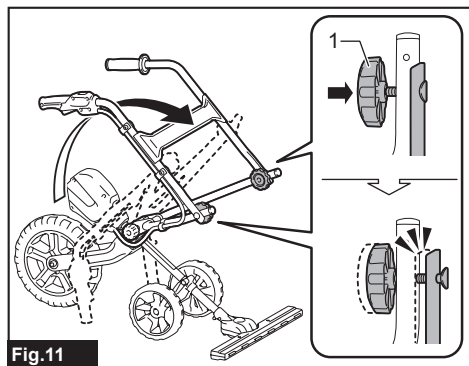


Fig.11

- 1. Handle knob

4. While supporting the handle component with your body, tighten all the knobs to secure the handle position.

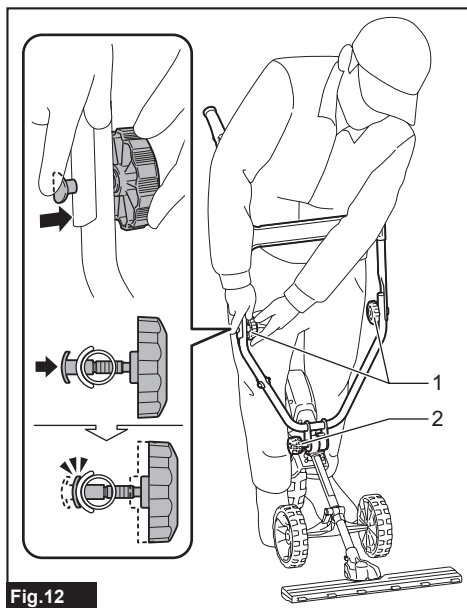


Fig.12

- 1. Handle knob 2. Handle adjustment knob

If it is difficult to support the handle component, place it on the floor and tighten handle knobs. Then raise the handle and tighten the handle adjustment knob.

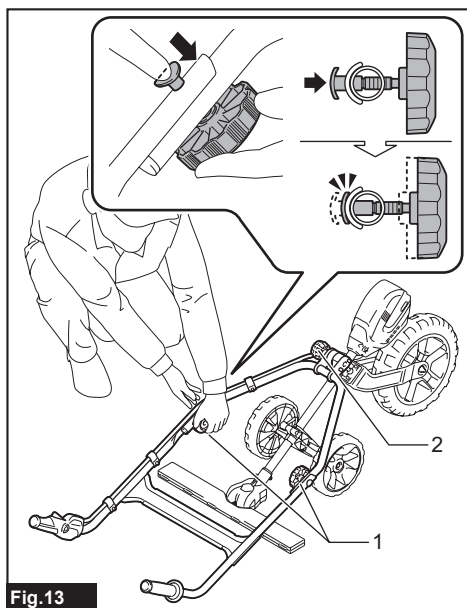


Fig.13

- 1. Handle knob 2. Handle adjustment knob

NOTE: Make sure that the curved bolt head fits perfectly onto the surface of the handle pipe.

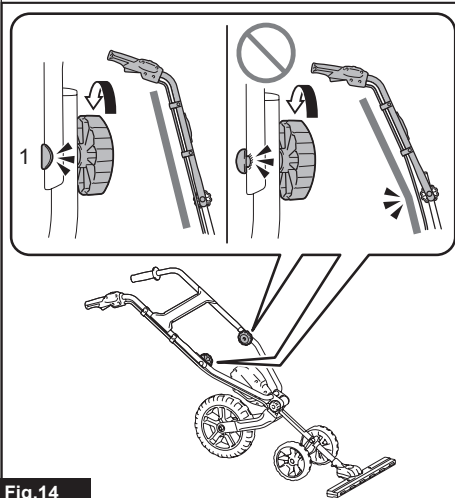


Fig.14

► 1. Curved bolt head

Flattening adjustment

Ensure the shear blades, front wheels and handle grips sit flat against the ground surface. The correct settings deliver an enhanced performance and fine finish. Unfasten the components and re-adjust their positions flat if necessary.

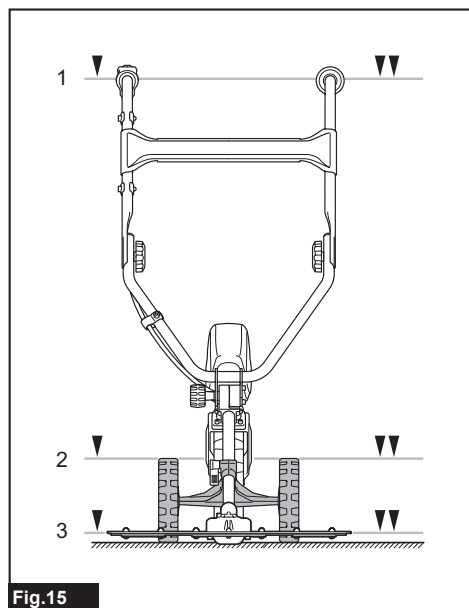


Fig.15

► 1. Handle grips 2. Front wheels 3. Shear blades

Handle height adjustment

Handle position can be changed at three levels. Adjust the handle grip angle nearly flat as a higher position or at slight negative angles for lower position.

Loosen the handle adjustment knob to disengage the coupling. Then bring the two segments back into alignment after you change the handle position.

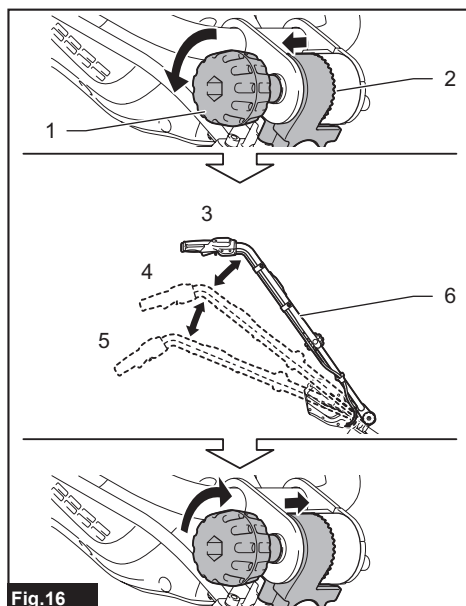


Fig.16

► 1. Handle adjustment knob 2. Coupling 3. Flat angle (high position) 4. Negative angle (middle position) 5. Further negative angle (low position) 6. Handle components

NOTICE: Do not set the handle beyond the maximum position range as illustrated in the figure.

NOTICE: Be careful not to pinch your fingers between the coupling during assembly.

NOTICE: Do not overtighten the handle adjustment knob while the coupling is not properly engaged.

NOTICE: Be sure to tighten the handle adjustment knob firmly before starting operation.

Blade covering

Unlock the latches on the blade case. Then open the blade cover.

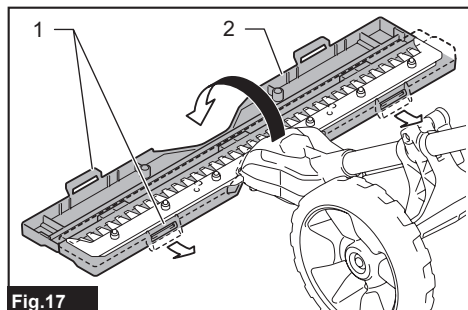


Fig.17

► 1. Latch 2. Blade cover

To keep safe, cover the shear blades when not in use. Place the blade cover over the shear blades and then latch it in position.

Shear blades replacement

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

⚠ CAUTION: When attaching and detaching the blade cover, pay attention to edge of the shear blades so as not to injure yourself.

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

NOTE: Working on a clean floor is recommended to prevent scratches or dirt on the handle.

1. Insert the battery cartridge all the way into the slot.

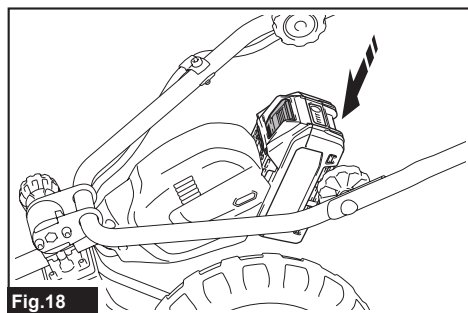


Fig.18

2. Press and hold the lock-off button. Then squeeze the switch trigger a little at a time to misalign the upper and lower blades.

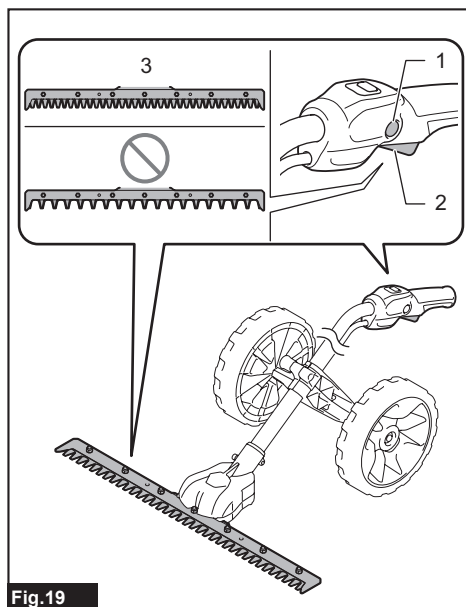


Fig.19

► 1. Lock-off button 2. Switch trigger 3. Shear blades

3. Remove the battery cartridge from the machine.

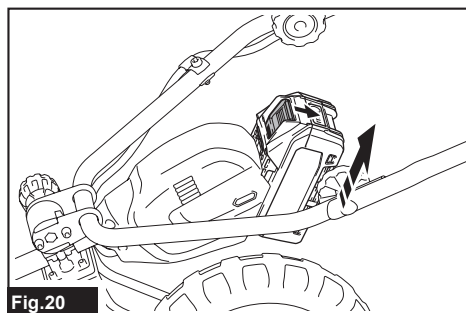


Fig.20

4. Attach the blade cover onto the shear blades.

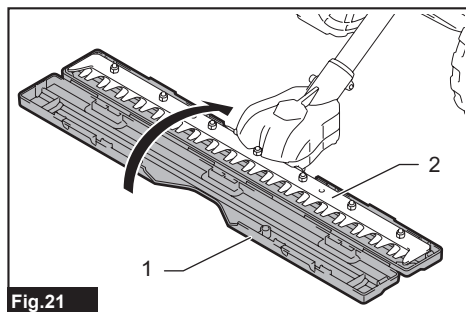


Fig.21

► 1. Blade cover 2. Shear blades

5. Fold the handle in half lengthwise as shown in the figure.

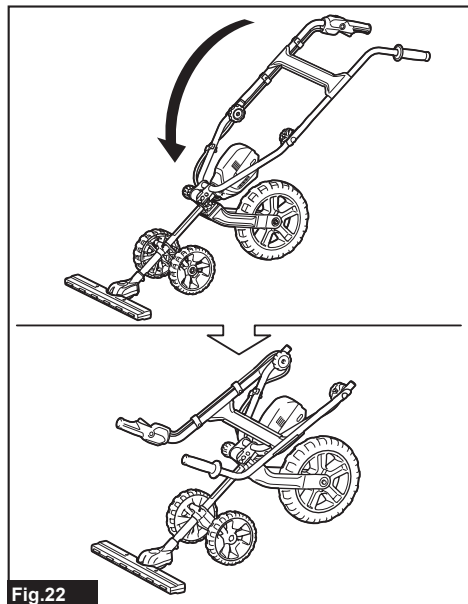


Fig.22

6. Lay the machine down on its handle so the bottom surface (under cover) of the gear case faces upward.

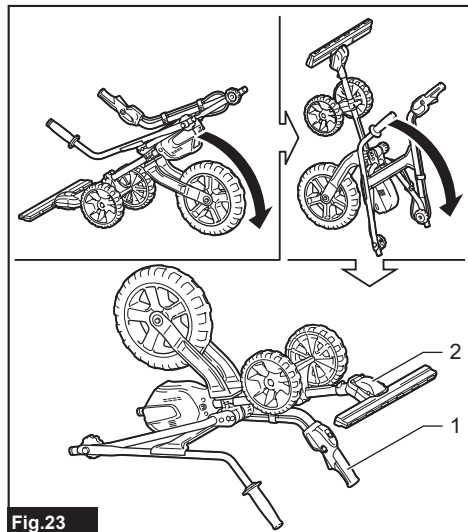


Fig.23

► 1. Handle 2. Bottom surface (Under cover)

7. Remove four hex socket head bolts and then remove the under cover from the gear case.

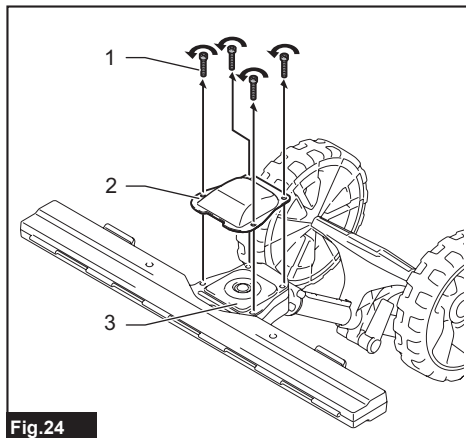


Fig.24

► 1. Hex socket head bolt 2. Under cover 3. Gear case

8. Dismount the shear blades unit from the gear case.

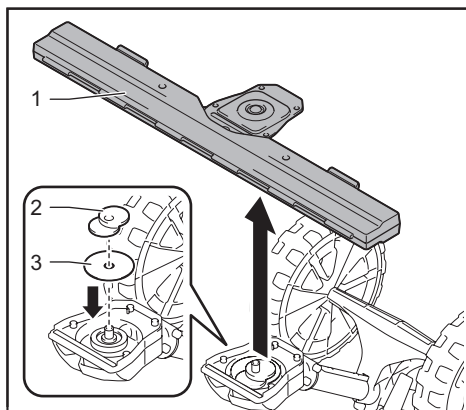


Fig.25

► 1. Shear blades unit 2. Crank wheels 3. Round plate

NOTE: Be reminded that the round plate and crank wheels may remain attached on the shear blades. Place them back on the gear shaft if the round plate or crank wheels adhered to the shear blades.

9. Turn the crank with the slotted screwdriver so that the two crank wheels line up in a row along the shaft pipe as shown in the figure.

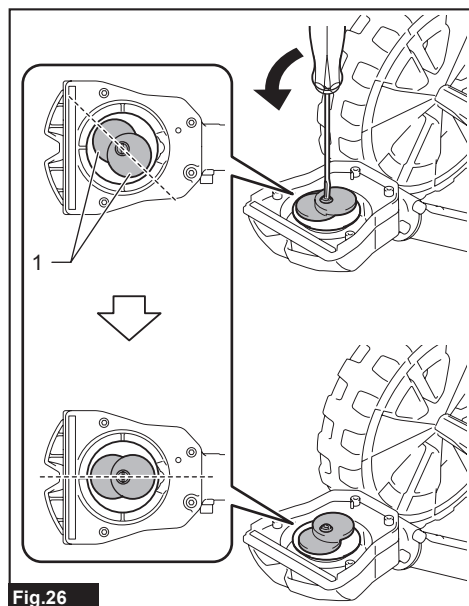


Fig. 26

► 1. Crank wheels

10. Remove the used shear blades from the blade cover, and then place new shear blades on the blade cover.

11. Align the crank arms of the upper shear blade and lower shear blade as shown in the figure.

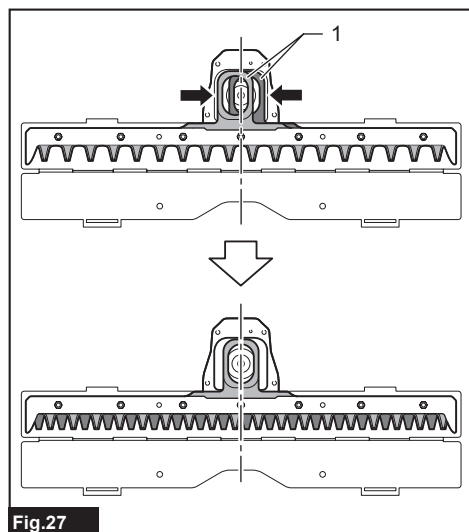


Fig. 27

► 1. Crank arms

12. Close the blade cover. Insert one of the hex socket head bolts that were removed in step 7 into the hole on the shear blades.

Pass the bolt through the hole on the blade cover to keep the upper and lower blades together in place.

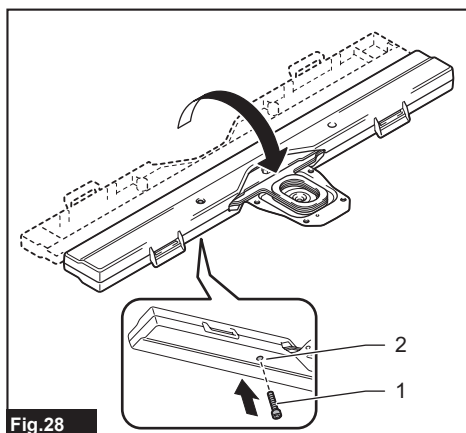


Fig. 28

► 1. Hex socket head bolt 2. Hole on blade cover

13. Apply a small amount of grease around the outside edge of the crank. Then mount the shear blades unit onto the gear case.

Be sure to fit the pin inside the gear case into its locking position on the shear blades unit.

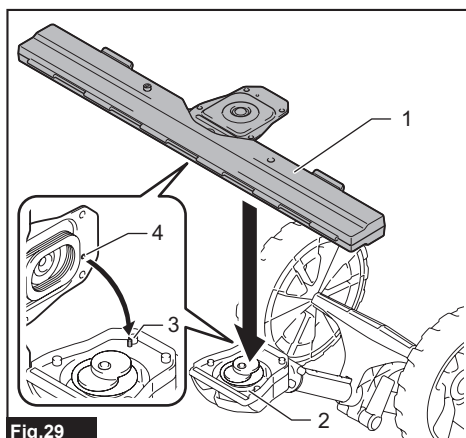


Fig. 29

► 1. Shear blades unit 2. Gear case 3. Pin 4. Locking position

14. Attach the under cover to the gear case. Tighten the 3 hex socket head bolts to hold the assembly together.

15. Remove the hex socket head bolt inserted into the blade cover in step 11. Then place the bolt back in position and tighten it to secure the assembly.

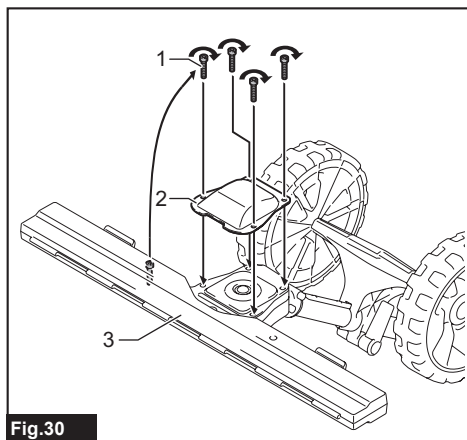


Fig.30

► 1. Hex socket head bolt 2. Under cover 3. Shear blades unit

NOTICE: If the shear blades do not move smoothly, the shear blades are not engaged with the crank properly. Install the shear blades again.

NOTICE: If the parts other than the shear blades such as the crank are worn out, ask Makita Authorized Service Centers for parts replacement or repairs.

FUNCTIONAL DESCRIPTION

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

Installing or removing battery cartridge

CAUTION: Always switch off the machine before installing or removing of the battery cartridge.

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

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 as shown in the figure, it is not locked completely.

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

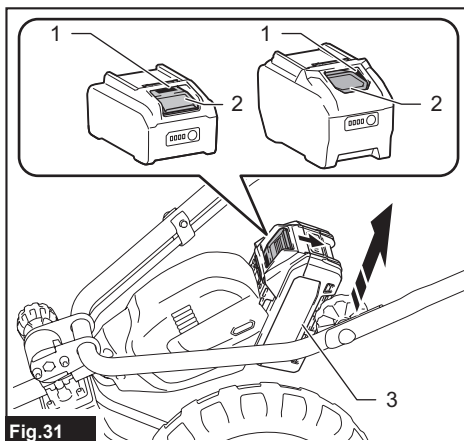


Fig.31

► 1. Red indicator 2. Button 3. Battery cartridge

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

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

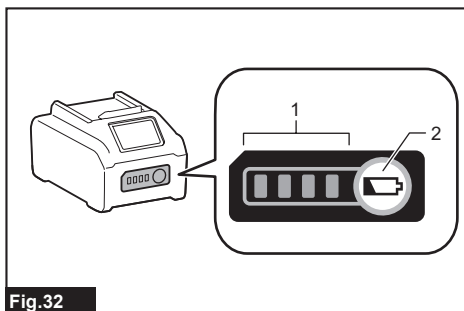
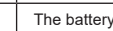
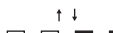
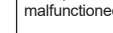


Fig.32

► 1. Indicator lamps 2. Check button

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.

NOTE: The first (far left) indicator lamp will blink when the battery protection system works.

Machine / battery protection system

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

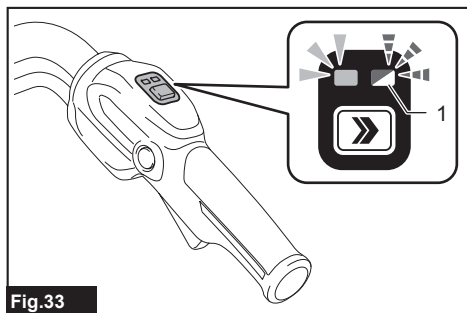


Fig.33

► 1. Mode 2 (high-mode) indication

NOTICE: Depending on the usage conditions, the machine automatically stops without any indication if the branches or debris are entangled in the shear blades. In this case, switch off the machine and remove the battery cartridge, and then remove entangled branches or debris using tools such as pliers. After removing the branches or debris, install the battery cartridge and turn on the machine again.

Overload protection

When the machine or battery is operated in a manner that causes it to draw an abnormally high current, the machine automatically stops and the mode 2 (high-mode) indication blinks in green. In this situation, turn the machine off and stop the application that caused the machine to become overloaded. Then turn the machine on to restart.

Overheat protection

If the machine is overheated, the machine stops automatically and the mode 2 (high-mode) indication lights up in red. Let the machine cool down before turning the machine on again.

If the battery cartridge is overheated, the machine stops automatically and the mode 2 (high-mode) indication blinks in red. Let the battery cartridge cool down before turning the machine on again.

Overdischarge protection

When the battery capacity becomes low, the machine stops automatically and the mode 2 (high-mode) indication blinks in red.

If the machine does not operate even when the switches are operated, remove the battery cartridge from the machine and charge it.

Protections against other causes

The protection system is also designed for other causes that could damage the machine and allows the machine to stop automatically. Take all the following steps to clear the causes when the machine has been brought to a temporary halt or stop in operation.

1. Turn the machine off, and then turn it on again to restart.
2. Charge the battery(ies) or replace it/them with recharged battery(ies).
3. Let the machine and battery(ies) cool down.

If no improvement can be found by restoring the protection system, contact your local Makita Service Center.

NOTICE: If the machine stops due to a cause not described above, refer to the section for troubleshooting. (page 26)

Switch action

⚠ WARNING: NEVER use the machine if it runs when you simply pull the switch trigger without pressing the lock-off button. For your safety, this machine is equipped with lock-off button which prevents the machine from unintended starting. Return the machine to our authorized service center for proper repairs BEFORE further usage.

⚠ WARNING: NEVER tape down or defeat purpose and function of lock-off button.

⚠ WARNING: Before installing the battery cartridge on the machine, always check that the switch trigger and lock-off button actuate properly and return to the "OFF" position when released. Operating a machine with a switch that does not actuate properly can lead to loss of control and serious personal injury.

⚠CAUTION: Never put your finger on the switch when carrying the machine or traveling between work sites. The machine may start unintentionally and cause injury.

Press and hold the lock-off button on the handle. Then pull the switch trigger to start the machine. Release the switch trigger to stop the machine.

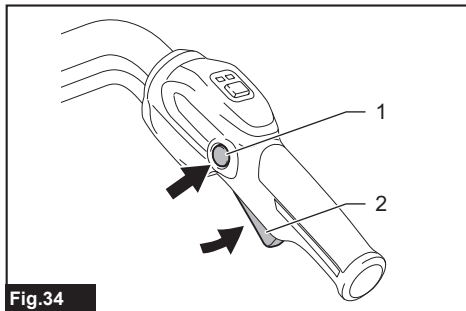


Fig.34

► 1. Lock-off button 2. Switch trigger

Mode switch

The stroke speed can be controlled by mode settings. Select either of the two operation modes according to practical applications.

Press the mode button or squeeze the switch trigger to display the mode status on the control panel. Then press the mode button to toggle between mode 1 (low-mode) and mode 2 (high-mode) until the mode lamps indicate the mode you want to select.

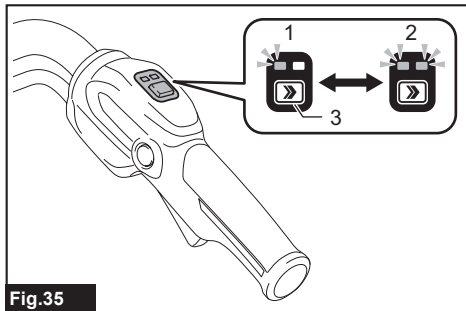


Fig.35

► 1. Mode 1 (low-mode) indication 2. Mode 2 (high-mode) indication 3. Mode button

Mode indication	Mode	Stroke speed
	2 High	4,000 min ⁻¹ (4,000 /min)
	1 Low	3,000 min ⁻¹ (3,000 /min)

NOTE: The machine restarts in the mode you have selected before.

NOTE: You can recognize the current mode status when you pull the switch trigger.

NOTE: You can change the mode status for a duration of approximately 60 seconds after releasing the switch trigger.

NOTE: The mode lamps automatically go out if you release the switch trigger and no further switch action is made for a certain period.

NOTE: The mode 2 (high-mode) indication blinks in green when you try to operate the machine under inoperable conditions.

For example, if you insert the battery cartridge while you are pulling the switch trigger.

Adjusting the cutting height

⚠CAUTION: Always switch off the machine before adjusting the cutting height.

⚠CAUTION: Never put your hands or feet under the machine body when adjusting the cutting height.

You can adjust the cutting height approximately from 30 mm to 100 mm.

1. Loosen the fixing lever on the wheel support clamp.

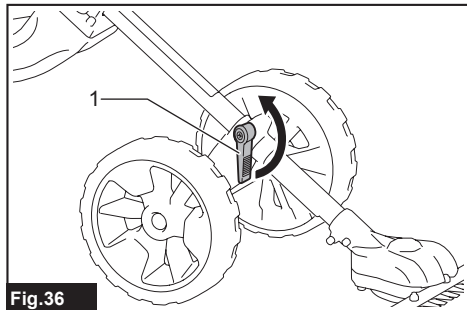


Fig.36

► 1. Fixing lever

NOTICE: To prevent loss, do not loosen the fixing lever until it comes off.

2. Slide the wheel support clamp along the shaft pipe.

You can adjust the cutting height approximately from 30 mm to 100 mm according to the scale on the shaft pipe.

Align the upper end of the wheel support clamp:

- With the top line of the scale for approximately 30 mm cutting height.
- With the bottom line of the scale for approximately 100 mm cutting height.

By reading a scale on the shaft pipe, you can adjust the cutting height between approximately 30 mm and 100 mm in approximately 10 mm increments.

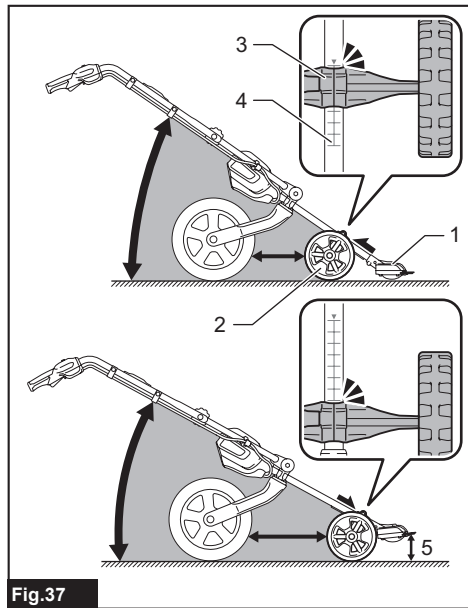


Fig. 37

- 1. Shear blades unit 2. Front wheel 3. Wheel support clamp 4. Scale lines 5. Cutting height

NOTE: You can further adjust the cutting height by following these steps.

- Slide the wheel support clamp to the rearmost position on the shaft pipe (until the under cover of the shear blades unit contacts the ground) for approximately 25 mm cutting height.
- Slide the wheel support clamp to the frontmost position on the shaft pipe (until the wheel support clamp contacts the shear blade unit) for approximately 105 mm cutting height.

3. Make sure that the plate on the shaft pipe is engaged with the wheel support clamp.

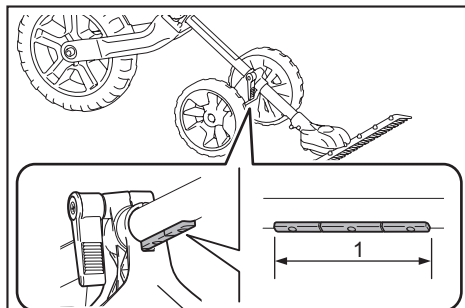


Fig. 38

- 1. Plate 2. Wheel support clamp

4. Securely tighten the fixing lever.

NOTICE: Make sure that the fixing lever on the wheel support clamp is securely tightened after repositioning the front wheels.

NOTE: You can change the locking position of the fixing lever.

Pull the fixing lever outward and hold it to unlock. Turn the fixing lever so that its tip points to the lowest position to prevent accidental release.

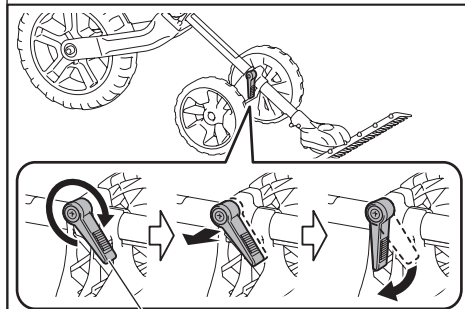


Fig. 39

- 1. Fixing lever

Accidental re-start preventive function

If you install the battery cartridge into the machine while pulling the switch trigger, the machine does not start. To start the machine, first release the switch trigger, and then pull the switch trigger again while pressing the lock-off button.

Electronic function

The machine is equipped with the electronic functions for easy operation.

- Constant speed control
The speed control function provides the constant rotation speed regardless of load conditions.

- **Electric brake**
This machine is equipped with an electric brake. If the machine consistently fails to quickly stop the shear blades after releasing the switch trigger, have the machine serviced at Makita Authorized Service Center.
- **Soft start feature**
Soft start because of suppressed starting shock.

OPERATION

⚠WARNING: Keep hands and feet away from shear blades.

⚠WARNING: Removing the entangled weed and grass by hand may cause an injury, because the shear blades may move in reaction. Always switch off the machine and remove the battery cartridge before removing the entangled weed and grass using tools such as pliers. Failure to do so may result in serious personal injury from accidental start-up.

⚠CAUTION: Avoid operating the machine in very hot weather as much as possible. When operating the machine, be careful of your physical condition.

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

⚠CAUTION: Before starting, make sure that the cutting device has no contact with any objects.

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

⚠CAUTION: Be sure to confirm that there are no people around before using.

⚠CAUTION: Do not work in an improper posture.

⚠CAUTION: Always be sure that the machine is switched off and the battery cartridge is removed before transporting the machine between working locations.

⚠CAUTION: Before shearing, clear away sticks and stones from the shearing area.



Fig.40

Operation basics

Hold the handle firmly with both your hands as shown in the figure.

Open your stance so that the body weight is evenly distributed over both feet.

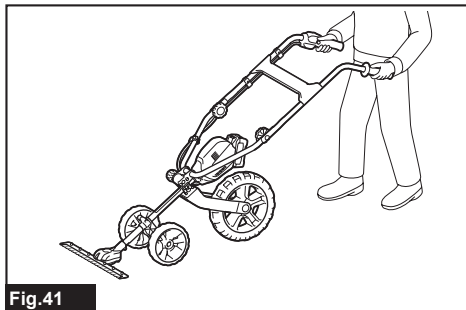


Fig.41

Position the shear blades angle flat against the ground. Switch the machine on. Push the machine forward. Carefully control the steering angle and forward speed according to the density and thickness of weed growth.

NOTE: Lift the front wheels up and pivot on the rear wheel to change the forwarding direction.

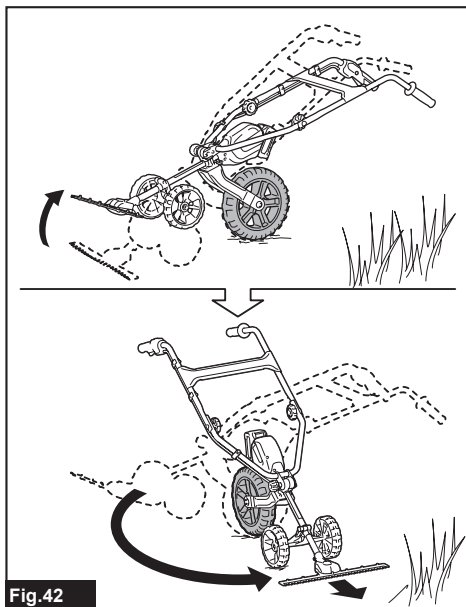


Fig.42

NOTE: Make a back-and-forth pattern to clear the cut grass and weed that have fallen over the shear blades. Making multiple passes can be easier and often gives better results than trying to clear a dense weed field with just one attempt.



Fig.43

Cutting operation against a wall

Push the machine straight forward along a wall. The blade width is slightly wider than the handle width and can be positioned close to the wall and corners. Be careful that the shear blades do not come into contact with any object or surface.

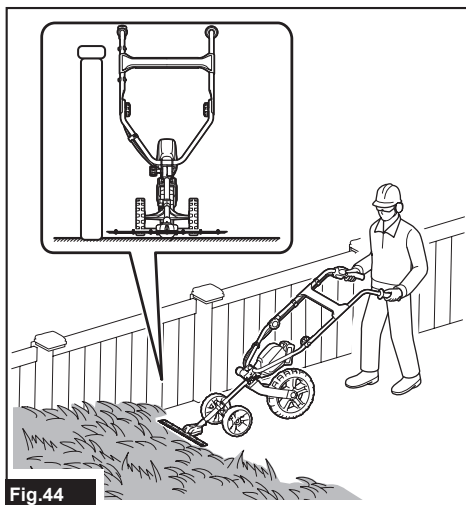


Fig.44

MAINTENANCE

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

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

Cleaning the machine

Clean the machine by wiping off dust with a dry cloth or one dipped in soapy water and wrung out. Pour water onto the wheels to wash away dirt and dust after the run if necessary.

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

NOTICE: Do not pour water into the area shown in the figure. Pouring water to the control, motor and gear unit may cause a malfunction of the machine

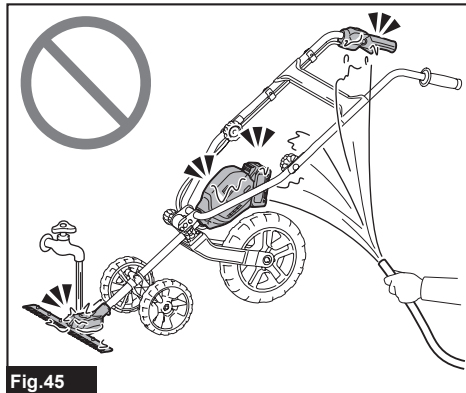


Fig.45

Shear blade maintenance

CAUTION: When performing inspection or maintenance on the shear blades, always wear gloves so that your hands do not directly contact the shear blades.

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

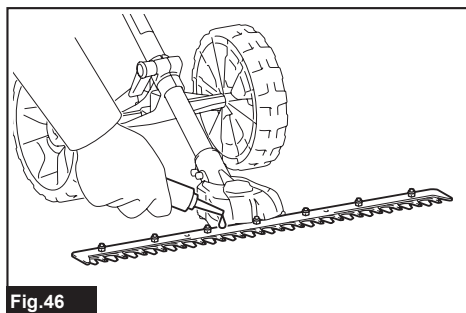


Fig.46

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

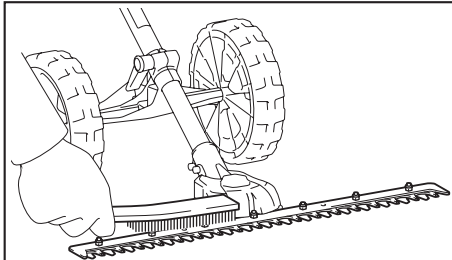


Fig.47

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

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

Storage and hand carry

CAUTION: Before storing or carrying the machine, remove the battery cartridge and secure the handle adjustment knob.

CAUTION: Always attach the blade cover onto the shear blades when the machine is not in use.

NOTICE: Store the machine indoors in a cool, dry and locked place. Do not store the machine in locations where the temperature may reach or exceed 40 °C.

NOTICE: As for storage when not in use for an extended period during off-season, thoroughly maintain and clean all the shear blades and machine body. Make sure all parts of the machine are completely dry to prevent rust.

Storage

The machine handle can be folded in half and neatly arranged according to your preferences.

CAUTION: Tighten the handle adjustment knob firmly after folding the machine.

Upright position

Fold the machine as shown in the figure for space-saving storage.

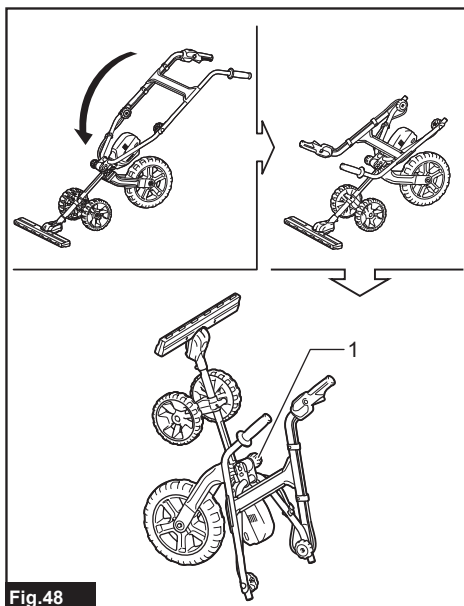


Fig.48

► 1. Handle adjustment knob

Flat position

Fold the machine as shown in the figure for prevention of tipping over.

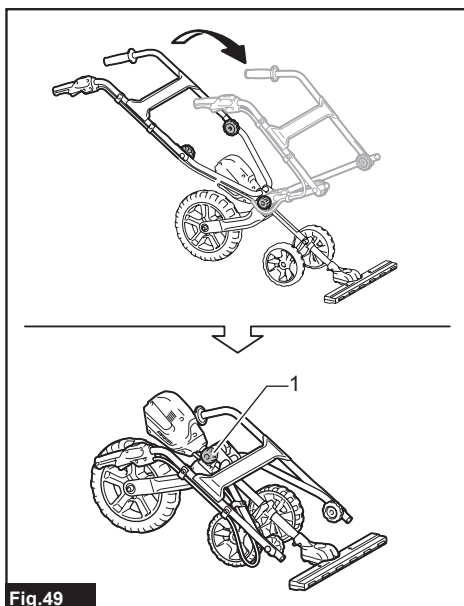


Fig.49

► 1. Handle adjustment knob

NOTICE: When storing the machine in a flat position, take the following measures to prevent the wheels from rolling:

- Slide the wheel support clamp backward until the under cover of the shear blades unit contacts the ground. Then tighten the fixing lever on the wheel support clamp.

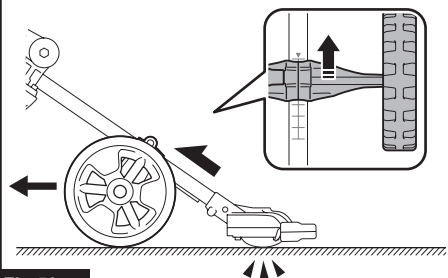


Fig.50

- Use an appropriate stopper to prevent the rear wheels from rotating.

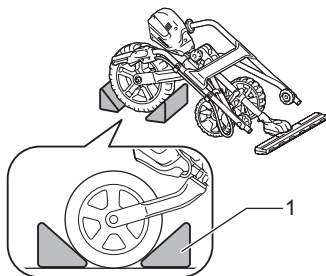


Fig.51

- 1. Stopper

Hand carrying

When carrying the machine, hold the main shaft and motor housing firmly with both hands.

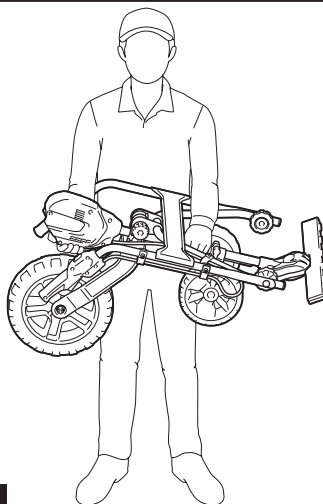


Fig.52

Lubricating moving parts

NOTICE: Follow the instruction of the frequency and amount of grease supplied. Insufficient lubrication may damage moving parts.

Drive shaft

Interval of lubrication: Every 30 operating hours

1. Fold the handle forward in half lengthwise as shown in the figure. Then lay the machine down on its handle so the bottom surface (under cover) of the gear case faces upward.

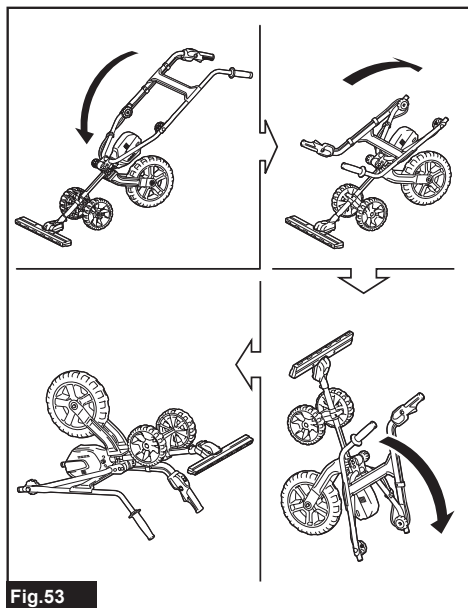


Fig.53

2. Detach the shear blades unit from the shaft pipe by removing two hex socket head bolts.
3. Apply grease (Makita grease N No.2 or equivalent) to the drive shaft.

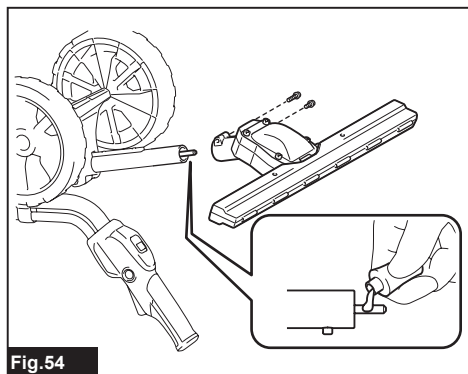


Fig.54

NOTE: Be careful not to let the drive shaft fall through the pipe.

NOTE: If the drive shaft sticks out of the shaft pipe far enough, push it back into the shaft pipe by turning the drive shaft until it returns to the appropriate position.

NOTE: You can purchase genuine Makita grease from your local Makita dealer.

Gear case

Interval of lubrication: Every 25 operating hours

1. Detach the shear blades from the machine.
2. Apply grease to the inner periphery of the holes on the shear blades (Approximately 3 g as a guide).

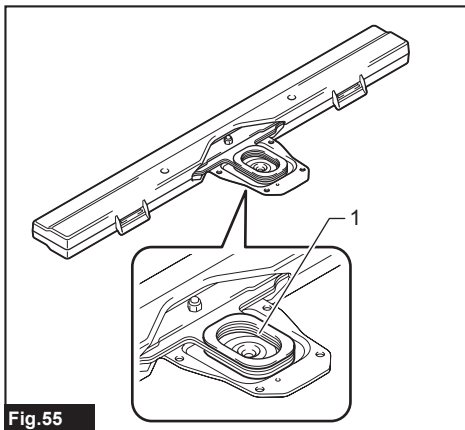


Fig.55

- ▶ 1. Hole
3. Install the shear blades to the machine.

Grinding the shear blades

NOTICE: If the shear blades have considerably deformed by grinding, replace the shear blades with new ones.

1. Install the battery cartridge to the machine.
2. Turn on and start the machine so that the upper blade and lower blade are positioned alternately.

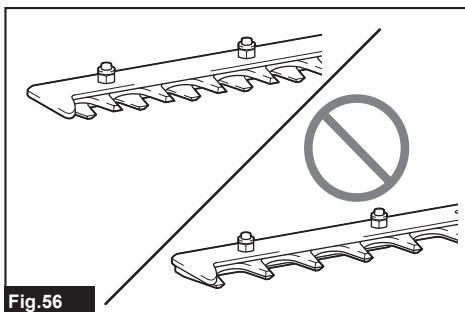


Fig.56

3. Turn off the machine and remove the battery cartridge from the machine.

4. Place the file at a 45° angle. Then, grind the upper blade from three directions.

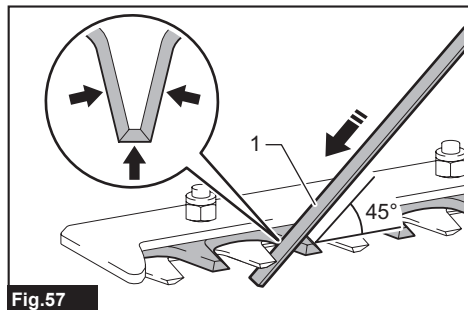


Fig. 57

- 1. File

CAUTION: Before grinding the shear blades, make sure that the machine is switched off and the battery cartridge is removed.

5. Place the machine upside down, and then remove the burrs from the shear blades with a dressing stone.

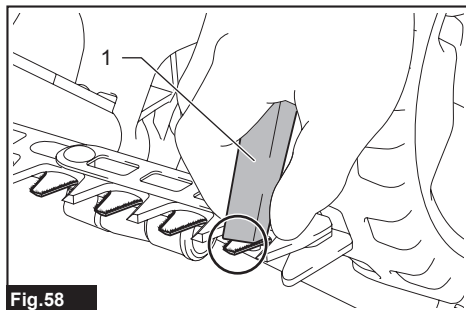


Fig. 58

- 1. Dressing stone

6. Place the file at a 45° angle. Then, grind the lower blade from three directions.

7. Return the machine to normal position, and then remove the burrs from the shear blades with a dressing stone.

TROUBLESHOOTING

Before asking for repairs, conduct your own inspection first. If you find a problem that is not explained in the manual, do not attempt to dismantle the machine. Instead, ask Makita Authorized Service Centers, always using Makita replacement parts for repairs.

State of abnormality	Probable cause (malfunction)	Remedy
Motor does not run.	Battery cartridge is not installed.	Install the battery cartridge.
	Battery problem (under voltage)	Recharge the battery. If recharging is not effective, replace battery.
	The drive system does not work correctly.	Ask your local authorized service center for repair.
Motor stops running after a little use.	Battery's charge level is low.	Recharge the battery. If recharging is not effective, replace battery.
	Overheating.	Stop using of the machine to allow it to cool down.
Machine does not reach maximum RPM.	Battery is installed improperly.	Install the battery cartridge as described in this manual.
	Battery power is dropping.	Recharge the battery. If recharging is not effective, replace battery.
	The drive system does not work correctly.	Ask your local authorized service center for repair.
Shear blades do not move: ⇒ stop the machine immediately!	Foreign objects are caught between the shear blades.	Switch off the machine and remove the battery cartridge, and then remove the foreign objects using tools such as pliers.
	The drive system does not work correctly.	Ask your local authorized service center for repair.
Abnormal vibration: ⇒ stop the machine immediately!	Shear blades are broken, bent or worn.	Replace the shear blades.
	The drive system does not work correctly.	Ask your local authorized service center for repair.
Shear blades and motor cannot stop: ⇒ Remove the battery immediately!	Electric malfunction.	Remove the battery and ask your local authorized service center for repair.

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
- Grease vessel
- 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.

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