

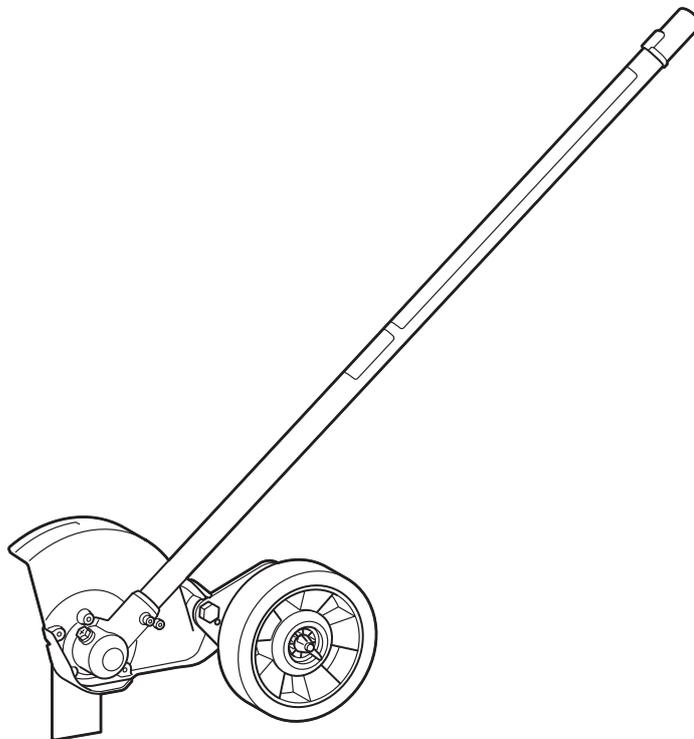


Edger Attachment

EE400MP

INSTRUCTION MANUAL

Original Instruction Manual



⚠ WARNING: Before use, read this booklet and the instruction manual of the power unit. Failure to follow the warnings and instructions may cause serious or fatal injury.

Contents

	Page
Contents	2
Foreword	2
Symbols	2
Approved power unit.....	3
Part description.....	3
Safety precautions.....	3
Assembly and adjustment	4
Operation.....	5
Inspection and maintenance.....	5
Storage.....	6
Maintenance schedule.....	7
Troubleshooting.....	7
Technical Data.....	7

Foreword

Thank you very much for purchasing Makita edger attachment.
 This attachment is designed to be mounted on Makita power unit mentioned in this instruction manual.
 Before use, please read this booklet and the instruction manual of the power unit. They will assist you to obtain the best possible result from your Makita edger attachment.

Symbols

The following symbols are used on the attachment and this instruction manual. Understand these definitions.



Take particular care and attention.



Read instruction manual.



Keep working area clear of persons



Wear a eye and ear protection.



Wear protective gloves.



Wear sturdy boots with nonslip soles.
 Steeltod safety boots are recommended.



Forbidden!



First Aid

Approved power unit

This attachment is approved to use only with the following power unit(s):

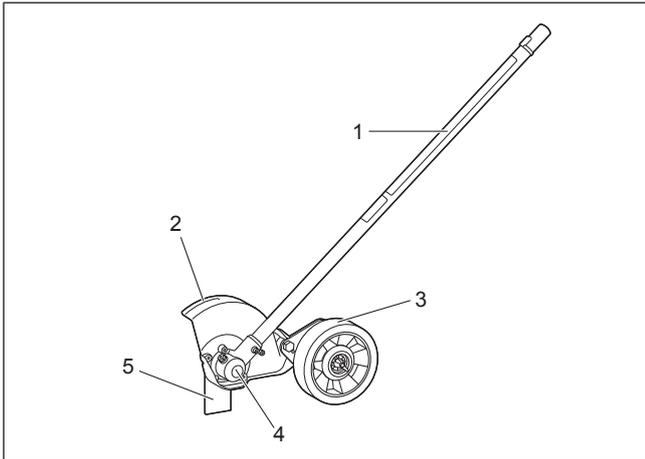
BUX360, BUX361, BUX362, UX360D, UX361D, UX362D, DUX60, DUX18, UX01G

Cordless multi function power head

⚠ WARNING:

Never use the attachment with non-approved power unit. Non-approved combination may cause serious injury.

Part description



The numbers below refer to the figure.

1. Shaft
2. Blade case
3. Wheel
4. Gear case
5. Blade

Safety precautions

⚠ WARNING:

Read all safety warnings and all instructions in this booklet and the instruction manual of the power unit. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “edger” and “equipment” in the warnings and precautions refer to the combination of the attachment and the power unit. The term “motor” in the warnings and precautions refers to the electric motor of the power unit.

Intended use

- This equipment is only intended for edging the lawn in conjunction with an approved power unit. Never use the attachment for the other purpose. Abusing the attachment may cause serious injury.

General precautions

- Before starting the equipment, read this booklet and the instruction manual of the power unit to become familiar with the handling of the equipment.
- Do not lend the attachment to a person with insufficient experience or knowledge regarding handling of the equipment.
- When lending the attachment, always attach this instruction manual.
- Do not allow children or young persons under 18 years old to use the equipment. Keep them away from the equipment.
- Handle the equipment with the utmost care and attention.
- Never use the equipment after consuming alcohol or drugs, or if feeling tired or ill.

- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
- Never attempt to modify the attachment.
- Follow the regulations about handling of the equipment in your country.

Personal protective equipment

- Wear safety helmet, protective goggles and protective gloves to protect yourself from flying debris or falling objects.



- Wear ear protection such as ear muffs to prevent hearing loss.
- Wear proper clothing and shoes for safe operation, such as a work overall and sturdy, non-slip shoes. Do not wear loose clothing or jewelry. Loose clothes, jewelry or long hair can be caught in moving parts.
- When touching the cutting blade, wear protective gloves. Cutting blades can cut bare hands severely.

Work area safety

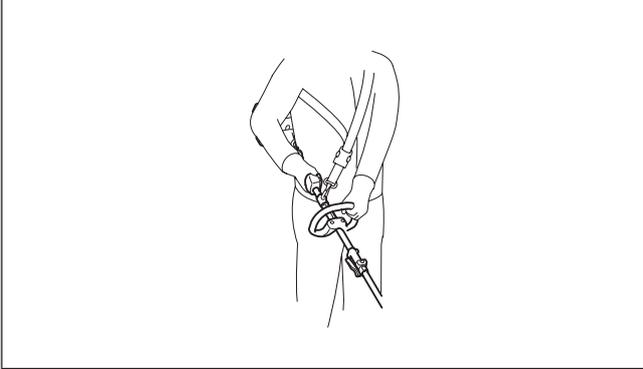
- Operate the equipment under good visibility and daylight conditions only. Do not operate the equipment in darkness or fog.
- During operation, never stand on an unstable or slippery surface or a steep slope. During the cold season, beware of ice and snow and always ensure secure footing.
- During operation, keep bystanders or animals at least 15 m away from the equipment. Stop the motor as soon as someone approaches.
- Before operation, examine the work area for stones or other solid objects. They can be thrown or cause dangerous kickback and result in serious injury and/or property damage.
- **⚠ WARNING:** Use of this product can create dust containing chemicals which may cause respiratory or other illnesses. Some examples of these chemicals are compounds found in pesticides, insecticides, fertilizers and herbicides. Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Putting into operation

- Before assembling or adjusting the equipment, switch off the motor and remove the battery cartridge.
- Before handling the cutter blade, wear protective gloves.
- Before starting the motor, inspect the equipment for damages, loose screws/nuts or improper assembly. If the cutter blade is bent or damaged, replace it. Check all control levers and switches for easy action. Clean and dry the handles.
- Never attempt to start the motor if the equipment is damaged or not fully assembled. Otherwise serious injury may result.
- Adjust the shoulder harness and hand grip to suit the operator's body size.

Operation

- In the event of an emergency, switch off the motor immediately.
- If you feel any unusual condition (e.g. noise, vibration) during operation, switch off the motor. Do not use the equipment until the cause is recognized and solved.
- The cutting tool continues to rotate for a short period after switch off the motor. Don't rush to contact the cutting tool.
- During operation, use the shoulder harness. Keep the equipment on your right side firmly.



- Hold the front handle with the left hand and the rear grip with the right hand, no matter you are right-hander or left-hander. Wrap your finger and thumbs around the handles.
- Never attempt to operate the equipment with one hand. Loss of control may result in serious or fatal injury. To reduce the risk of injury, keep your hands and feet away from the cutting tool.
- Do not overreach. Keep proper footing and balance at all times. Watch for hidden obstacles such as tree stumps, roots and ditches to avoid stumbling.
- Never work on a ladder or tree to avoid loss of control.
- If the equipment gets heavy impact or fall, check the condition before continuing work. Check the controls and safety devices for malfunction. If there is any damage or doubt, ask Makita authorized service center for the inspection and repair.
- Do not touch the gear case. The gear case becomes hot during operation.
- Take a rest to prevent loss of control caused by fatigue. We recommend taking a 10 to 20-minute rest every hour.
- When you leave the equipment, even if it is a short time, always remove the battery cartridge. The equipment unattended may be used by unauthorized person and cause serious accident.
- Follow the instruction manual of the power unit for proper use of the control lever and switch.
- During or after operation, do not put the hot equipment onto dry grass or combustible materials.
- If grass or branches get caught between the cutting tool and guard, always stop the motor and remove the battery cartridge before cleaning. Otherwise unintentional blade rotation may cause serious injury.
- If the cutting tool hits stones or other hard objects, immediately switch off the motor and inspect the cutting tool.
- Check the cutting tool frequently during operation for cracks or damages. Before the inspection, switch off the motor and wait until the cutting tool stops completely. Replace damaged cutting tool immediately, even if it has only superficial cracks.
- Never cut above waist height.
- Before starting the cutting operation, wait until the cutting tool reaches a constant speed after pulling the trigger.
- Always be sure of your footing on slopes.
- Walk, never run.
- Use extreme caution when reversing or pulling the edger toward you.
- Make sure the blade has stopped before crossing surfaces other than grass and when transporting the edger to and from the area to be edged.

Cutting tools

- Never use inappropriate blades including metal multi-piece pivoting chains and flail blades. It may result in serious injury.
- Always use the cutting tool guard properly suited for the cutting tool used.

Vibration

- People with poor circulation who are exposed to excessive vibration may experience injury to blood vessels or the nervous system. Vibration may cause the following symptoms to occur in the fingers, hands or wrists: "Falling asleep" (numbness), tingling, pain, stabbing sensation, alteration of skin color or of the skin. If any of these symptoms occur, see a physician!
- To reduce the risk of "white finger disease", keep your hands warm during operation and well maintain the equipment and accessories.

Transport

- Before transporting the equipment, switch off the motor and remove the battery cartridge. Remove the cutting tool.

Maintenance

- Have your equipment serviced by our authorized service center, always using only genuine replacement parts. Incorrect repair and poor maintenance can shorten the life of the equipment and increase the risk of accidents.
- Before doing any maintenance or repair work or cleaning the equipment, always switch off the motor and remove the battery cartridge. Wait until the motor gets cold.
- To reduce the risk of fire, never service the equipment in the vicinity of fire.
- Always wear protective gloves when handling the cutting blade.
- Always clean dust and dirt off the equipment. Never use gasoline, benzine, thinner, alcohol or the like for the purpose. Discoloration, deformation or cracks of the plastic components may result.
- After each use, tighten all screws and nuts.
- Do not attempt any maintenance or repair not described in this booklet or the instruction manual of the power unit. Ask Makita authorized service center for such work.
- Always use Makita genuine spare parts and accessories only. Using parts or accessories supplied by a third party may result in the equipment breakdown, property damage and/or serious injury.
- Request Makita authorized service center to inspect and maintain the equipment at regular interval.

Storage

- Before storing the equipment, perform full cleaning and maintenance. Remove the battery cartridge. Remove the cutting tool.
- Store the equipment in a dry and high or locked location out of reach of children.
- Do not prop the equipment against something, such as a wall. Otherwise it may fall suddenly and cause an injury.

First aid

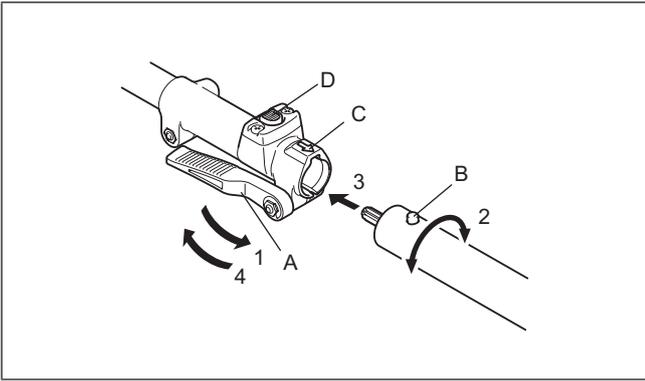
-  Always have a first-aid kit close by. Immediately replace any item taken from the first aid kit.
- When asking for help, give the following information:
 - Place of the accident
 - What happened
 - Number of injured persons
 - Nature of the injury
 - Your name

Assembly and adjustment

WARNING:

- Before assembling or adjusting the equipment, switch off the motor and remove the battery cartridge. Otherwise the cutting tool or other parts may move and result in serious injury.
- Before handling cutting blade, wear protective gloves. During the assembly or adjustment, your fingers may contact with the cutting blade and it may cause serious injury.
- When assembling or adjusting the equipment, always put it down. Assembling or adjusting the equipment in an upright position may result in serious injury.
- Follow the warnings and precautions in the chapter "Safety precautions" and the instruction manual of the power unit.

Mounting the attachment to a power unit

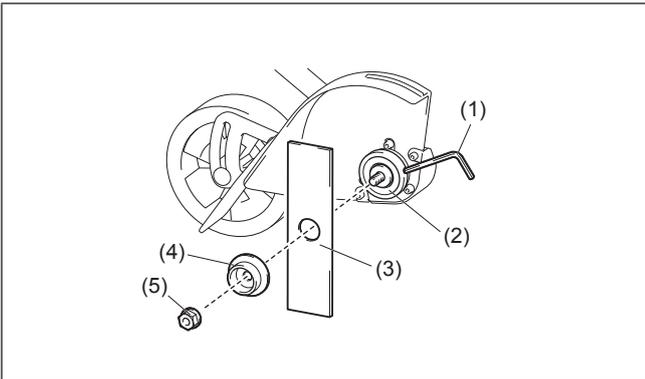


- To mount the attachment to a power unit, follow the steps below.
1. Make sure that the lock lever (A) is not tightened.
 2. Align the pin (B) with the arrow mark (C).
 3. Insert the shaft into the drive shaft of the power unit until the release button (D) pops up.
 4. Tighten the lock lever (A) firmly as shown.

To remove the attachment, loosen the lock lever, press the lock button and withdraw the shaft.

NOTICE: Do not tighten the lock lever (A) without the shaft of the attachment inserted. Otherwise the lock lever may tighten the entrance of the drive shaft too much and damage it.

Installing and removing the blade



1. Turn the receive washer (2) so that the hole on the receive washer aligns with the hole on the gear case.
2. Insert the hex wrench (1) through the holes. Make sure the receive washer does not turn.
3. Holding the hex wrench, turn the nut (5) clockwise with using a socket wrench.
4. Remove the nut and the clamp (4).
5. Place the blade (3).
6. Return the clamp and the nut.
7. Holding the hex wrench, turn the nut counterclockwise to fasten the blade.

To remove the blade, perform the above steps in reverse.

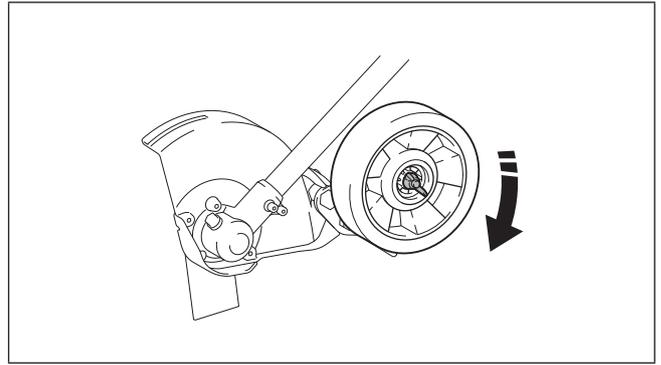
NOTE: The cutter blade-fastening nut (with spring washer) wears out in course of time. If there appears any wear or deformation on the nut, replace it.

Operation

⚠ WARNING:

- Follow the warnings and precautions in the chapter "Safety precautions" and the instruction manual of the power unit.

Adjusting the blade depth



- Loosen the nut on the wheel.
- Move the wheel and adjust the height according to the operation, then tighten the nut.

Operation tips

- Before edging, water the area to soften the ground and make edging easier.
- Before edging, check the area and remove all obstacles and objects that could be thrown.
- Plan to edge regularly to make it easier to keep a neat edge and to avoid having to make more than one pass.

NOTE:

Blade depth may have to be adjusted due to differences in height between the hard surface and the top of the grass.

- Adjust the blades' depth of cut to produce a fine cut between sidewalk and grass using a minimum blade depth, usually with about 13 mm (1/2") of the blade into the ground.

Inspection and maintenance

⚠ WARNING:

- Before inspecting or maintaining the equipment, switch off the motor and remove the battery cartridge. Otherwise the cutting tool or other parts may move and result in serious injury.
- When inspecting or maintaining the equipment, always put it down. Assembling or adjusting the equipment in an upright position may result in serious injury.
- Follow the warnings and precautions in the chapter "Safety precautions" and the instruction manual of the power unit.

Resharpener the cutting tool

⚠ WARNING:

Do not sharpen cutting blades by yourself. Manual sharpening unbalances a cutting blade and it can cause vibrations and damage to the equipment.

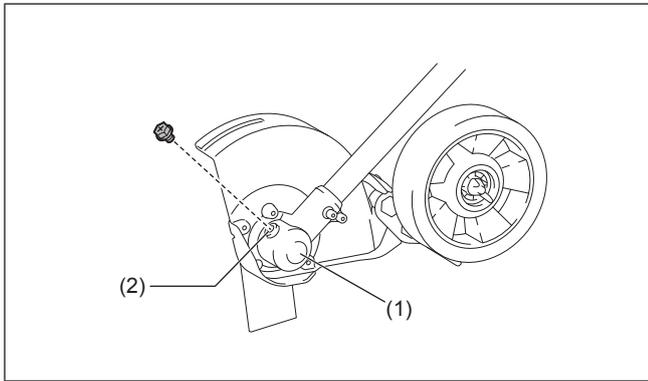
Ask Makita authorized service center to sharpen and rebalance blunt cutter blades.

Lubricating moving parts

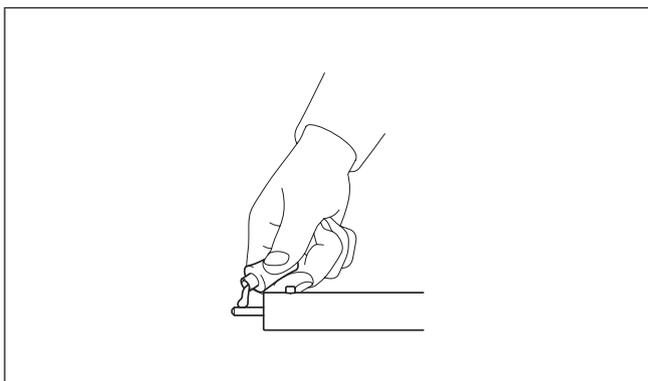
NOTICE: Follow the instruction of the frequency and amount of grease supplied. Otherwise insufficient lubrication may damage moving parts.

Gear case:

Supply grease (Shell Alvania 2 or equivalent) to the gear case (1) through the grease hole (2) every 30 hours of operation. (Genuine Makita grease may be purchased from your local Makita dealer.)



Drive axle:
Supply grease (Shell Alvania No.2 or equivalent) every 30 hours of operation.



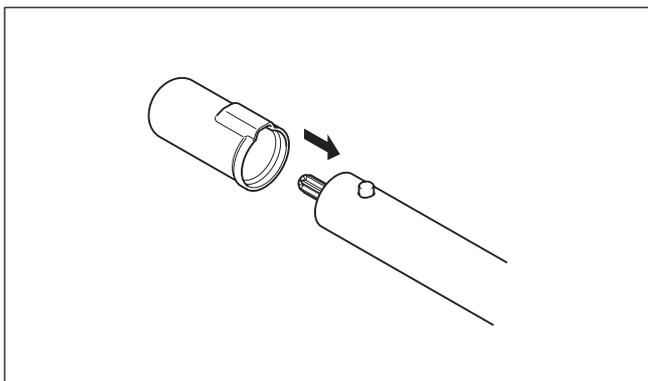
Overall inspection

- Tighten loose bolts, nuts and screws.
- Check for damaged parts. Ask Makita authorized service center to replace them.

Storage

⚠ WARNING:

Follow the warnings and precautions in the chapter "Safety precautions" and the instruction manual of the power unit.



When storing the edger attachment separated from the power unit, put the cap onto the end of the shaft.

Maintenance schedule

Operating hour		Before Operation	Daily (10h)	30h	If required	Corresponding page
Whole unit	Visually inspect for damaged parts	○				6
All fixing screws and nuts	Tighten	○				6
Gear case	Supply grease			○		5
Drive axle	Supply grease			○		6
Cutter blade	Visually inspect for damage	○	○			5
Power unit	Refer to the instruction manual of the power unit					

Troubleshooting

Problem	Probable cause	Solution
The cutting tool does not rotate. → Stop the motor immediately!	The cutting blade is not tightened securely.	Tighten the cutting blade securely.
	A twig is caught between the cutting blade and the protector.	Remove the foreign matter.
	The drive system does not work properly.	Ask Makita authorized service center to inspect and repair it.
The unit vibrates abnormally. → Stop the motor immediately!	The cutting blade is bent, worn or broken.	Replace the cutting blade with new one.
	The cutting blade is not tightened securely.	Tighten the cutting blade securely.
	The cutting blade is not fitted on the receive washer.	Install the cutting blade properly.
	The drive system does not work properly.	Ask Makita authorized service center to inspect and repair it.
The cutting tool does not stop. → Stop the motor immediately!	The power unit does not work properly.	Refer to the instruction manual of the power unit.

Technical Data

Model		EE400MP
Dimensions (L x W x H)	mm	878 x 131 x 291
Net weight (Not including protector and blade)	kg	2.4
Cutting blade diameter	mm	203
Gear ratio		14/29

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