



ASK-MW23/MW28



Installation and Operation Instructions





Read and understand this manual before using this product.

Original instruction Translation of the original instructions

Check the brushcutter



Power Rotary Scissors can attached to the brush cutter in the table on the right

(See pages $4 \sim 5$)

(A) Outer tube	(B) Drive shuft shape			
diameter (mm)	Diameter (mm)	No. of teeth	Teeth shape	
φ 2 4 mm	6	10	Spline	
φ 2 5 mm	7	7	Spline	
φ25.4mm	7	13	Serration	
φ 2 6 mm	8	9	Spline	
φ 2 8 mm	□5.2	_	Square	

Safety Precautions

Read the safety Precautions before use. The precautions listed here are intended to prevent accidents or injury to the users of product or other people and ensure safe and proper use of the product.



This symbol calls attentions to an act or a condition which will lead to serious personal injury or death of operators and bystanders.

This symbol calls attentions to an act or a condition which can lead to serious personal injury or death of operators and bystanders.

This symbol indicates a potentially hazardous situation which may result in minor or moderate injury.

The item of CAUTION even has the potential which lead to serious result. These are important for safety, so make sure these are strictly obeyed.

Symbols

Symbol shape		Symbol description	Symbol shape	Symbol description
		Carefully read the operators manual.		Wear eye protection to protect the eye from flying debris and stones.
		Be careful not to touch the blades. The blades are sharp and may cause serious injury.		Wear ears protection to avoid hearing impairment.
		Beware of high-temperature areas.		Wear protective helmet to protect the head from falling object.
Warning, Thrown objects!Make sure that there are no people and animals around the work area			Protective gloves must be worn.	
		Make sure that there are no people and animals around the work area		Wear sturdy boots with nonslip soles. Steel toed safety boots are recommended.

DANGER!

Be careful not to touch the blades. The blades are sharp and may cause serious injury.

Read the manual of the brushcutter in advance.

WARNING!

Wear safety glasses while using the Power Rotary Scissors.

Wear gloves when handling the Power Rotary Scissors. Be very careful of the blades.

Wear protective clothing for grass cutting work.

Wear sturdy boots with nonslip soles.

Be sure to attach the protector in the brushcutter.

Never use the Power Rotary Scissors after consumption of alcohol or drugs, or if feeling tired or ill.

Allow the Power Rotary Scissors to cool sufficiently after operation, before you touch it.

The Power Rotary Scissors heats up during operation due to the friction of the blade.

If a foreign object, such as a piece of wire becomes tangled in the Power Rotary Scissors stopping blade rotation, stop the engine first before removing the object.

If blade rotation is still not smooth after removing the object, see the "Maintenance" section of this manual (Page 9) for further troubleshooting information.

Please make sure that there are no children or other people within a working range of 15 meters, also pay attention to any animals in the working vicinity.

This product can reduce a flying stones. It does not mean not to fly at all. Make sure the safety confirmation to the surroundings and wear safety glasses while using.

ATTENTION!

Use only for lawn and grass cutting.

To avoid malfunction or injury do not modify your Power Rotary Scissors.

Shield the blades with the protective cover when not in use.

The blades must be free and not touch anything while starting the brushcutter engine.

The Power Rotary Scissors is water resistant. However, if it is used in a wet area, wipe the blades and lubricate after each use. Do not completely submerge the Power Rotary Scissors and the brushcutter in water.

Sharpen the blades if grass cutting efficiency drops. See sharpening (page 7), maintenance (page 9).

Periodically lubricate the Power Rotary Scissors to ensure proper performance (See page 10).

Obstacles like plastic bags and steel wires in the grass should be removed before cutting the grass to prevent them from becoming entangled in the blades.

Do not hit the blade against obstacles. It will be caused damage to each part . Also, there is a possibility that the blade and the bottom disk drop off, which is dangerous.



Protector

Stop the engine first

Blades off the ground for starting!

No

Danger! Very Hot!

protective cover

Parts Diagram



Ref No.	Part No.	Part Name	Part Quantity	
1	SKVW-26	Type Label V	1	
2	SKVW-27	Caution Label V	1	
2	SK-1815NW	Upper Blade 18/Lower Blade 15 also fits ASK-VW23 series	1Set	
5	SK-2118VW	Upper Blade 21/Lower Blade 18 also fits ASK-VW28 series	1Set	
4	SKNW-19	Bottom Disk	1	
5	SKN-22	Bottom Disk Fixing Bracket	1	
6	SKM-06AJ	Gear Case AJM	1	
7	SKAN-21	Blade Protection Cover	1	
8	SKR-12	Sems Cap Screw M6 × 10	2	
9	SKV-11	Gear Unit V	1	
9-1	SKR-27	U-Nut M5	11	
9-2	SKV-28	Lower Oil Case V Assy	/ 1	
9-3	SKV-31	Sun Gear V Assy	1	
9-4	SKRA-32	Outer Gear RA Assy	1	
9-5	SKV-33	Free Roller C	6	
9-6	SKRA-34	Spacer RA	11	
9-7	SKV-35	Upper Oil Case V Assy	1	
10	SKR-36	Stud Screw M5 × 18	5	
11	SKAN-04	Spring Washer M5	3	
12	SKAN-05	Cap Screw M5×8	1	
13	SKR-07	Stabilizer	1	
14	SKR-10	Low Head Cap Screw M6 × 8	4	
15	SKR-38	Body Case+Rubber Seal	1	
16	SKR-13	E-Ring 4	1	
17	SKAN-14	Drive Pinion Gear	1	
18	SKR-15	Output Shaft Spacer	1	
19	SKAN-02	Cap Screw M5 × 25	1	
20	SKAN-01	Fit Screw M5×12	1	
21	SKAN-03	Hex Screw M5×6	1	
22	TKWA-01	Mounting Kit	1	
22-1	TKA-01	Adapter 6-10	1	
22-2	TKA-02	Adapter 7-7	1	
22-3	TKA-03	Adapter 7-13	1	
22-4	TKA-04	Adapter 8-9	1	
22-5	TKA-05	Adapter SQ	1	
22-6	TKS-24	Sleeve ϕ 24	1	
22-7	TKS-25	Sleeve ϕ 25	1	
22-8	TKS-254	Sleeve ϕ 25.4	1	
23	SKM-26	Sleeve Ø26	1	

MOUNTING



Insert the sleeve into the gear case

For outer tube diameter ϕ 24, ϕ 25, ϕ 25.4





Drive shuft shape			A 1				
Diameter (mm)	No. of teeth	Teeth	shape		Adapter		
6	10	Spline	#	\rightarrow	Adapter 6-10		
7	7	Spline		\rightarrow	Adapter 7–7		
7	13	Serration		\rightarrow	Adapter 7–13		
8	9	Spline		\rightarrow	Adapter 8–9		
□5.2		Square		\rightarrow	Adapter SQ		

*Check whether the shaft fit the hole of adapter. If you select the wrong adapter, it will not work properly.

Mount the slected adapter to the unit





*After installing, ensure that make a trial run. Make sure that there is no abnormal noise and no shaking of Power Rotary Scissors.

Failure examples during installation

Drive shaft has not reached deeply of the gear case.

Solution : Insert Power Rotary Scissors all the way regardless the hole position of Fit screw on the outer tube.

②It is not properly attached due to mistake of adaptor and sleeve selection.

Solution : Please reconfirm adaptable sleeve and adaptor.

③The sleeve which is not conforming was fitted and it was excessively fastened, so the gear case was damaged.

Solution

n : Please install the correct sleeve.



*Installation failure example

BLADE SHARPENING

Sharpen the blades when grass tends to stick to them.

WARNING

Stop the engine before sharpening the blades.Wear gloves to help prevent injury.

Blade sharpening

- 1. First remove the upper and lower blades. (See page 8)
- 2. Sharpen the edge of the both upper and lower blades. (See illustration) with a file.
- Take care not to heat the blade enough to change the color. This may decrease blade hardness.
- Sharpen the blade edge at 45 degrees.



Timing for Blade Replacement and Blade Sharpening

- 1. It is suggested to sharpen the blades in every 8 to 10 hours of operation as a reference in case of cutting soft grasses or lawn.
- 2. It is also suggested to replace the blades in every 30 to 40 hours of operation including 3 to 4 times of blade sharpening.
- 3. Replace the blades if either upper or lower blade thickness has been worn to 2.7mm or less.
- Referenced operating hours for blade sharpening differs depending on the type grasses, or cutting environments including obstacles like soil and sand.
- Some grasses could be rolled up in the blades. If this happens, first remove the blades then remove completely the rolled grasses, as it could seriously affect the life of blades and main body.



the upper and lower blade)

WARNING

Make sure the engine is stopped before replacing the blades. Wear gloves to handle the blades.

*To replace the blade, exclusive long nose pliers or snap ring pliers is required.

- 1. Remove the bottom disc fixing bracket.
 - * Be careful not to jump out the bottom disc fixing bracket while mounting it.



2. Remove the bottom disc.





Clean up main body and bottom disc before mounting new blade

3. Remove the upper and the lower blades.



- 4. Clean up the body with a brush to remove grass and dirt and wash it with water.
- 5. Wipe the body and dry it. Then wipe it with an oily cloth before installing the blades.
- 6. Mount the upper and the lower blades.
- 7. Mount the bottom disc.
- 8. Mount the bottom disc fixing bracket.



MAINTENANCE

* Make sure the engine is stopped before replacing the blades.

* Wear safety glass and gloves to handle the blades.

Lower Blade

1. Clean the blades and bottom disc with a brush, to remove grass or dirt stuck to them.

See Maintenance points below for details.

2. Wipe the blades and bottom disc and dry them. Then, wipe them gently with an oily cloth. To install the blade, first position the blade holes on fixing pins, then turn the blade counterclockwise.

- Take care not to install the blade upside down.
- Make sure all the fixing pins are in place when the blade is installed.



Upper Blade

Clean the blades and bottom disc with a brush, to remove grass or dirt stuck to them.
 See Maintenance points below for more details

2. Wipe the blades and bottom disc , and dry them. Then, wipe them gently with an oily cloth.

- 3. Mount the blade by aligning the blade holes and fixing pins, then by turning the blade counterclockwise.
 - Take care not to install the blade upside down.
 - Make sure all the fixing pins are in place when the blade is installed.



Lubrication

1 Remove the two screws to allow grease to be injected (see illustration), and inject grease into both screw holes. Inject about 20cc per every 10 hours of operation as a reference.





- 2 Insert the two screws and tighten securely.
- 3 Remove hex screw (M5×6) in the gear case, and inject about 10cc of grease into the hole every 25 hours of operation as a reference.

Grease injection hole



4 Insert the hex screw($M5 \times 6$) and tighten it securely.

This completes lubrication

* Lubricate the Power Rotary Scissors and oil the blades if it is to be stored for more than 30 days.

First aid relating to grease
Eye Contact:
 Immediately flush with water for at least 15 minutes. Get medical attention.
Skin Contact:
• Thoroughly remove with cloth or paper and wash carefully with soap and water.
Inhalation:
 Remove the victim from the contamination to fresh air. Cover the victim in a blanket to keep warm and quiet. Consult a physician.
Ingestion:
• Do not induce vomiting. Immediate consult a physician.
Notes to Physicians:
• Supportive care Treatment based on judgment of the physician in response to reactions of the patient

Specifications

Model	ASK-MW23	ASK-MW28	
Cutting method	Rotary sciss	or blades	
Dimensions L×W×H(mm)	258×230×101	285×280×101	
Diameter(mm)	φ230	φ280	
Weight(kg)	1.8	2.3	
Max engine speed (min ⁻¹)	10,000		
Max engine performance (k W)	2.0		

Surface		Aluminum(A5052)		
Reduction		Planetary gear reduction		
Ratio	Upper	1:18.8		
	Lower	1:13.5		

WARNING

Stop the engine before handling the unit. Wear gloves to handle the blades.

Status		Where to check		Solution		See Page
요평		Is the unit properly mounted?) 🕨	Mount the unit properly.)	4
ade c es no		Any cracks or bends on the blades?) 🕨	Replace the blade or blades.) 🕨	8
loes no ot turn		Any foreign objects caught in the blades?		Remove the objects.		9
proj		Is the product properly lubricated?) 🕨	Inject grease periodically.		10
perly		Does the brushcutter engine function properly?		Check all engine functions.)	
		Any foreign objects caught in the blades?		Remove the objects.		9
Abno		Any cracks or bends on the blades?) 🕨	Replace the blade or blades.		8
ormal		Are the upper and lower blade properly mounted?		Check the blade mounting.		8
vibi		Is the product properly lubricated?		Inject grease periodically.		10
se or ration		Is the product properly mounted to the brushcutter?		Check the mounting.		4
		Is the brushcutter drive shaft bent?		Check the brushcutter.		
		Any cracks or bends on the blades?		Replace the blade or blades.		8
uttir		Blade wear?		Sharpen the blade.		7
ade 1g		Is the engine speed correct?		Adjust the engine speed properly.		
	1					

For European countries only

EC Declaration of Conformity We, IDECH CORPORATION declare in our sole responsibility that the following product conforms to all the relevant provisions. Product Name : Power Rotary Scissors : ASK-MW23/ASK-MW28 Model Name Council Directives : DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 May 2006 on machinery, and amending Directive 95/16/EC Applicable Harmonized : Machinery Directive, EN ISO 12100 : 2010 EN ISO 11806-1 : 2011 Standards Junya Itoh President IDECH CORPORATION 182 Kurita, Hojo-cho,

Kasai, Hyogo, Japan



Power Rotary Scissors is used by sliding on the ground. Please replace the worn bottom desc.



% If there is a hole, foreign matter may get inside the main unit and cause a malfunction.

For applications where the "Standard bottom disc SUS" is frequently torn, we recommend a "Bottom Slider" made of Nylon and Stainless steel.

Further suppresses scattering

Ensure a distance between the blade and the ground, and avoid touching small stones etc.

Improved durability and operability

Adopts high molecular weight nylon with high wear resistance. Comparison with conventional product **about 10 times longer life!**

Reduced wear on cutting blades

Maintains the sharpness of the blade and increases its lifespan!

Because it's reduced contacting with soil and sand.



%Can be installed on existing Power Rotary scissors

•Nylon Plate replacement guide

When the wear gauge hole or hex bolt is exposed as shown in the figure, it is time to replace it. Be sure to replace it with a new one.The Bottom Slider continues to use the worn out Resin Plate.It may cause an accident such as damage and scattering.

 If it used without Nylon Plate attached, Foreign matter such as sand may enter through the holes in the Stainless plate, It may cause defect to the Main unit.





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