

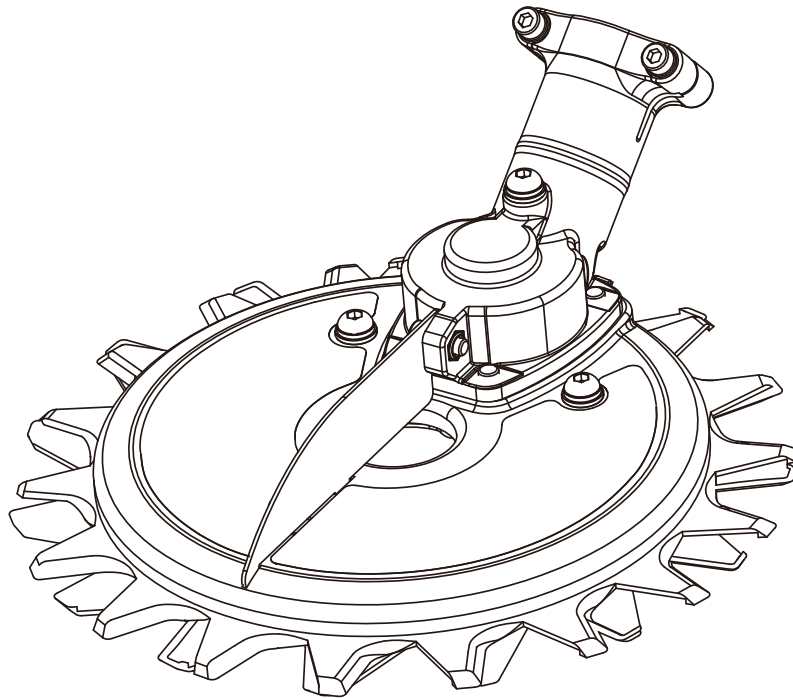
NORTH AMERICAN DISTRIBUTOR
SEAGO INTERNATIONAL INC
229 9th ST NW, HICKORY NC 28601
PH:800-780-9889
WWW.SEAGOINTERNATIONAL.COM

Power Rotary Scissors

ASK-MW23/MW28

*Brushcutter
Attachment*

Installation and Operation Instructions



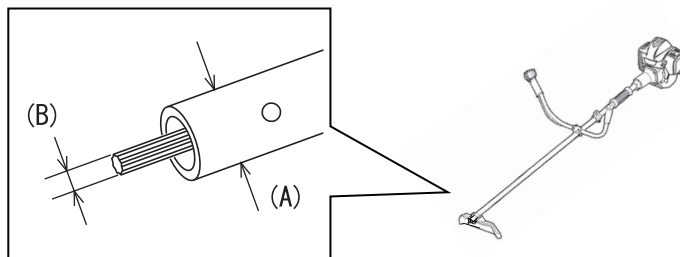
IDECH
IDECH CORPORATION

Read and understand this manual before using this product.

Original instruction

Translation of the original instructions

Check the brush cutter



The Power Rotary Scissors can be attached to a brush cutter that meets the criteria indicated in the table to the right.

(See pages 4~5)

(A) Outer tube diameter (mm)	(B) Drive shaft shape		
	Diameter (mm)	No. of teeth	Tooth shape
φ 24 mm	6	10	Spline
φ 25 mm	7	7	Spline
φ 25.4 mm	7	13	Serration
φ 26 mm	8	9	Spline
φ 28 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 product users 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.

Even items marked with CAUTION have the potential to lead to serious results. These are important for safety, so make sure these are strictly obeyed.

Symbols

Symbol shape	Symbol description	Symbol shape	Symbol description
	Carefully read the operator's 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 ear protection to avoid hearing impairment.
	Beware of high-temperature areas.		Wear a protective helmet to protect the head from falling objects.
	Be aware of thrown objects.		Wear protective gloves.
	Make sure that there are no people or 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 brush cutter 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 brush cutter.

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, and 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 brush cutter 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 brush cutter in water.

Sharpen the blades if grass cutting efficiency drops.

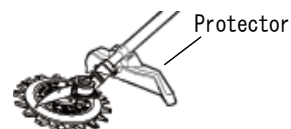
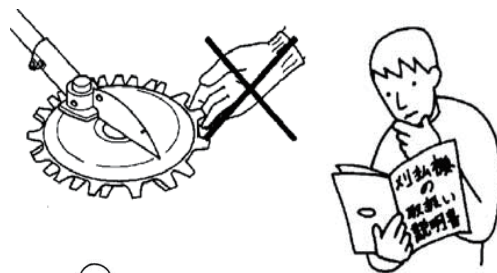
See sharpening (page 7), maintenance (page 9).

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

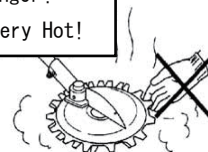
Obstacles like plastic bags and steel wires in the grass should be removed before cutting the grass to prevent them from becoming entangled in the blades.

Do not hit the blade against obstacles. It can cause damage to each part.

Also, there is a possibility that the blade and the bottom disk drop off, which is dangerous.



Danger!
Very Hot!

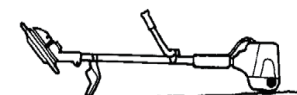


Stop the engine first



Protective cover

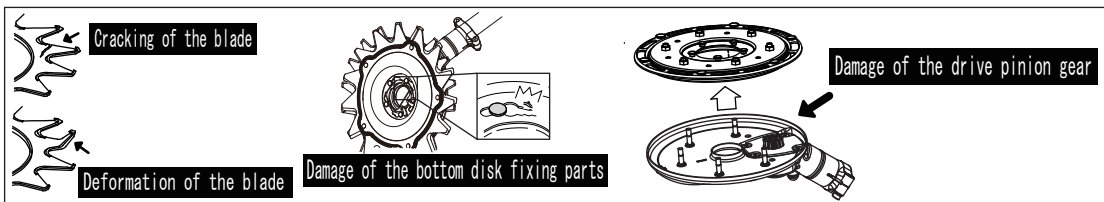
Blades off the ground for starting!



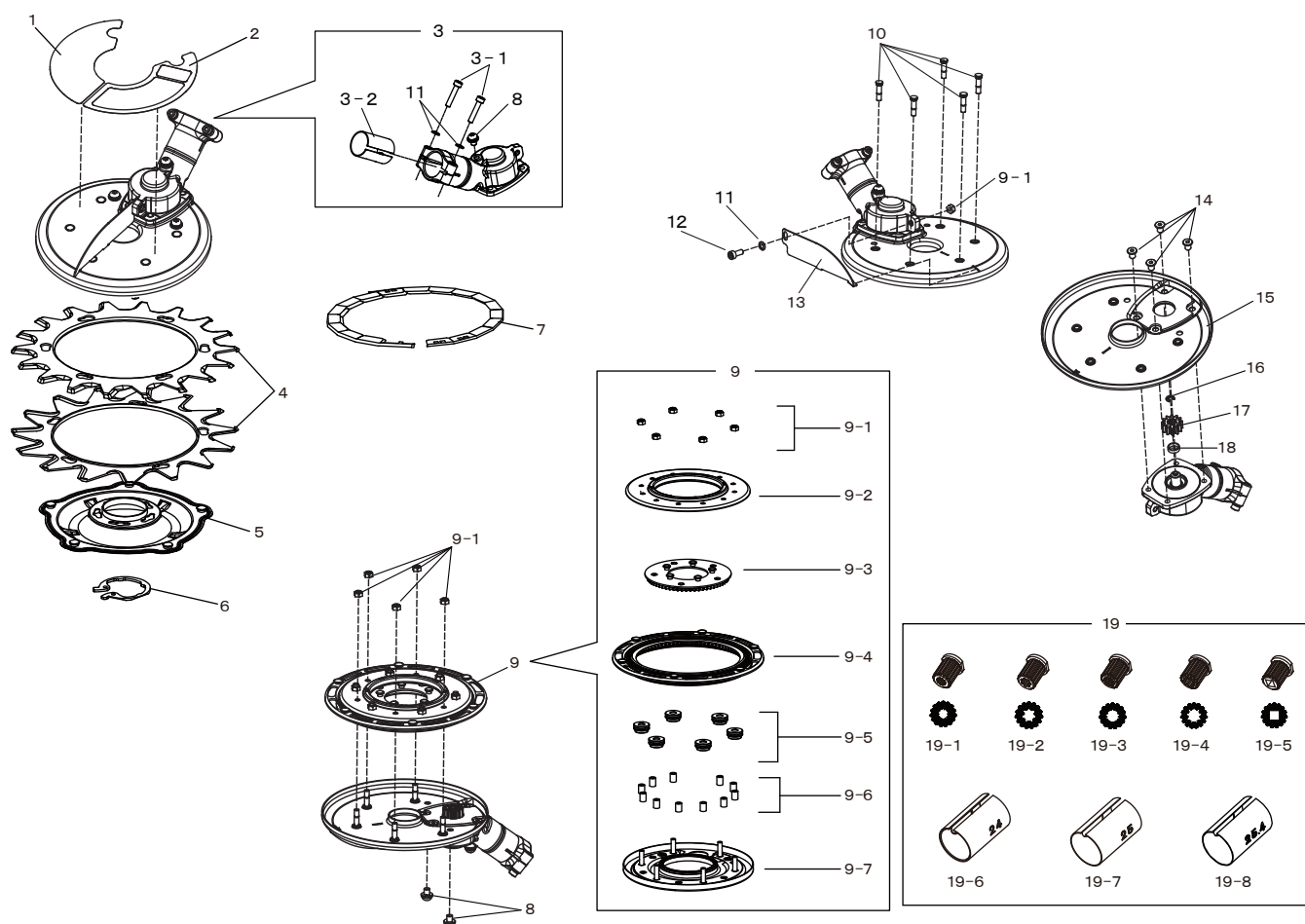
OK!



No!



Parts List

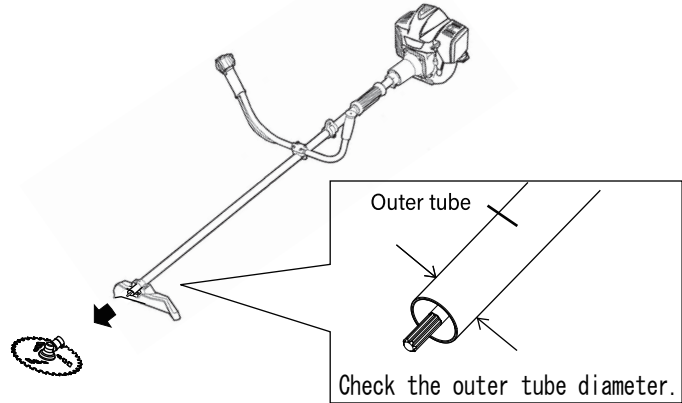


Ref No.	Part No.	Part Name	Part Quantity	
1	SKMW-26	Type Label MW	1	
2	SKV-27	Caution Label V	1	
3	SKM-06TC	Gaer Case TC	1	
3-1	SKAN-02	Cap Screw M5 × 25	2	
3-2	SKM-26	Sleeve φ26	1	
4	SK-1815NW	Upper Blade18/Lower Blade15	1Set	ASK-MW23
	SK-2118VW	Upper Blade21/Lower Blade18	1Set	ASK-MW28
5	SKNW-19	Bottom Disk	1	
6	SKN-22	Bottom Disk Fixing Bracket	1	
7	SKAN-21	Blade Protection Cover	1	
8	SKR-12	Sems Cap Screw M6 × 10	3	
9	SKV-11	Gear Unit V	1	
9-1	SKR-27	U-Nut M5	12	
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	WS-12	Cap Screw M5 × 12	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	TKWA-01	Mounting Kit	1	
19-1	TKA-01	Adapter 6-10	1	
19-2	TKA-02	Adapter 7-7	1	
19-3	TKA-03	Adapter 7-13	1	
19-4	TKA-04	Adapter 8-9	1	
19-5	TKA-05	Adapter SQ	1	
19-6	TKS-24	Sleeve φ24	1	
19-7	TKS-25	Sleeve φ25	1	
19-8	TKS-254	Sleeve φ25.4	1	

MOUNTING

Check the outer tube diameter

- ① Remove the existing gear case.
- ② Check the outer tube diameter.

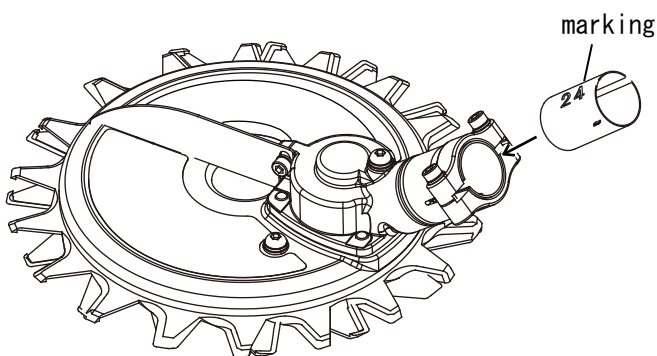
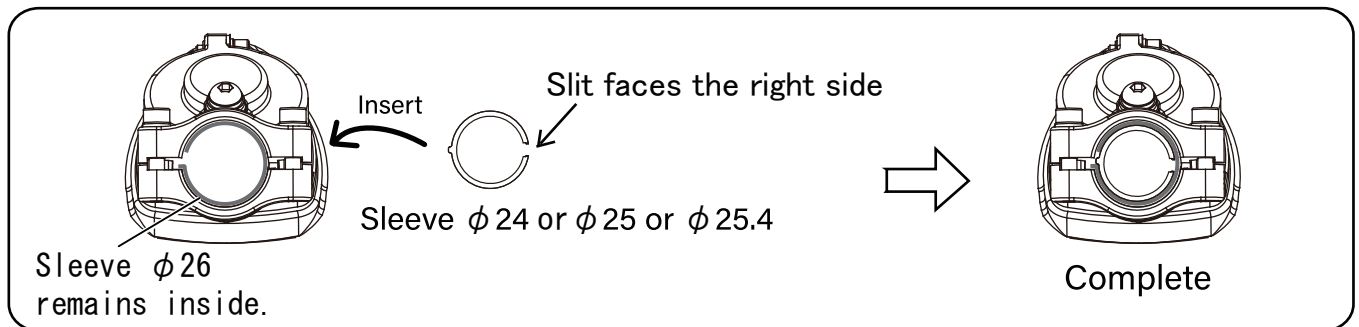


Select the sleeve

Outer tube diameter				
$\phi 24\text{mm}$	$\phi 25\text{mm}$	$\phi 25.4\text{mm}$	$\phi 26\text{mm}$	$\phi 28\text{mm}$
Sleeve $\phi 24$	Sleeve $\phi 25$	Sleeve $\phi 25.4$	Sleeve $\phi 26$ is already in the gear case	Sleeve $\phi 26$ Remove sleeve $\phi 26$ from gear case

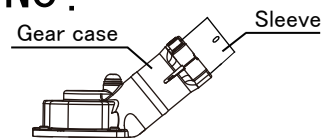
Insert the sleeve into the gear case

For outer tubes with a diameter of $\phi 24$, $\phi 25$ or $\phi 25.4$

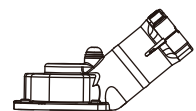


Insert the sleeve with the "24", "25" or "25.4" marking faces on the upper side.

No!



OK!



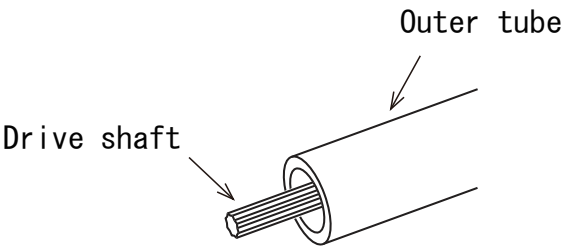
※ Insert the entire sleeve.

※ Make sure the $\phi 26$ sleeve in the direction shown in the figure below.

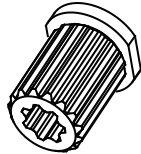


Be aware that mounting the sleeve incorrectly could break the gear case.

Select the adaptor

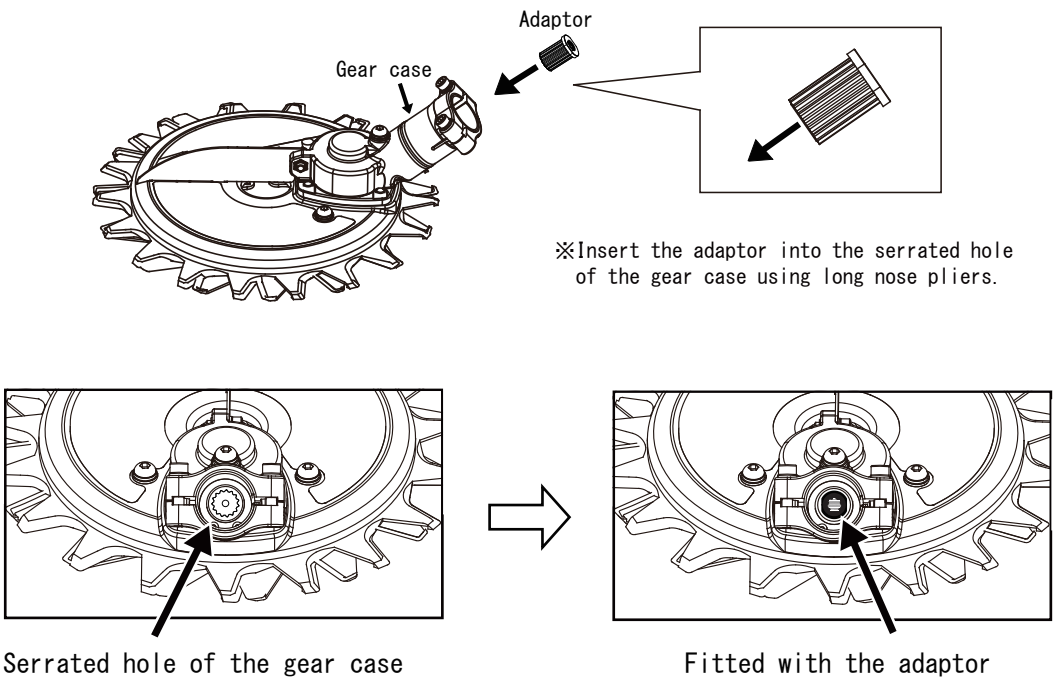


Drive shaft shape				Adaptor	
Diameter (mm)	No. of teeth	Tooth shape			
6	10	Spline		→	Adaptor 6-10
7	7	Spline		→	Adaptor 7-7
7	13	Serration		→	Adaptor 7-13
8	9	Spline		→	Adaptor 8-9
□ 5.2	—	Square		→	Adaptor S Q

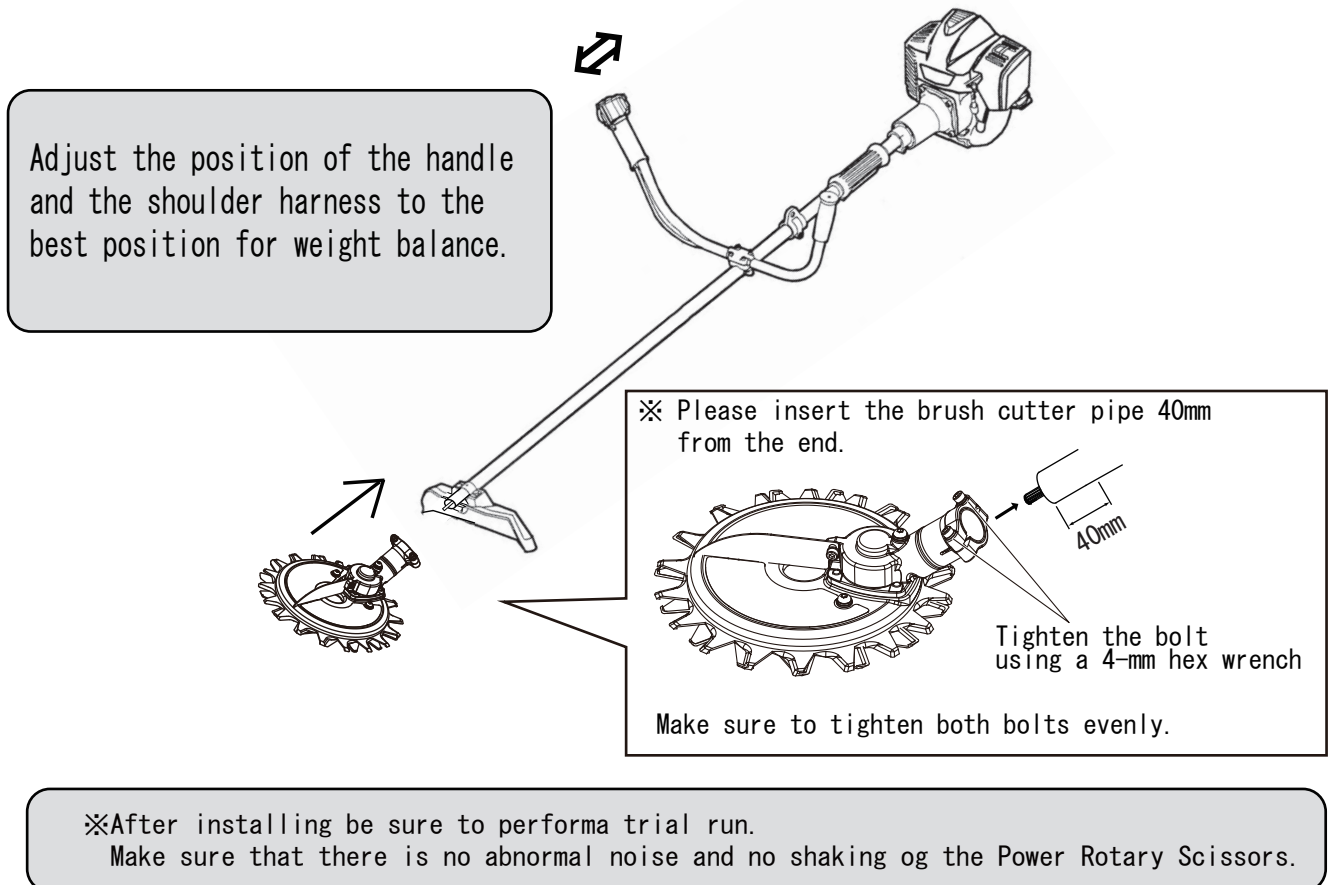


※Check whether the shaft fit the hole of adaptor.
 If you select the wrong adaptor, it will not work properly.

Mount the selected adaptor to the unit

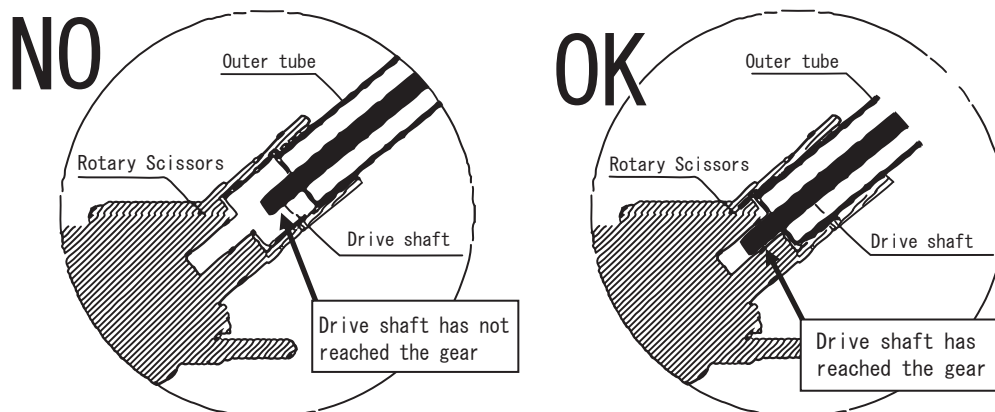


Install the Power Rotary Scissors



Failure examples during installation

- ① Drive shaft has not reached deep into the gear case.
Solution : Insert the Power Rotary Scissors all the way regardless of the hole position for the fit screw on the outer tube.
- ② It is not properly attached due to a mistake in of adaptor and sleeve selection.
Solution : Please reconfirm the applicable sleeve and adaptor.
- ③ A non-compatible sleeve was fitted and excessively fastened, so the gear case was damaged.
Solution : Please install the correct sleeve.



※Installation failure example

BLADE SHARPENING

Sharpen the blades when grass tends to stick to them.

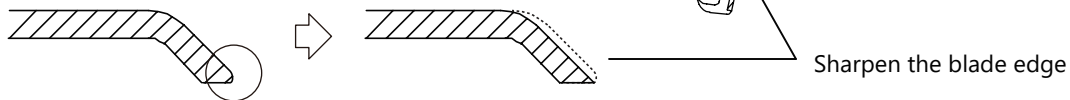
WARNING

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

Blade sharpening

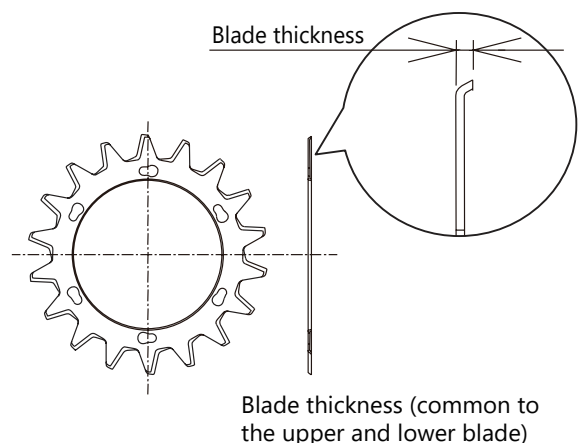
1. First remove the upper and lower blades.
(See page 8)
2. Sharpen the edge of the both upper and lower blades.
(See illustration) with a file.
 - Take care not to heat the blade enough to change the color. This may decrease blade hardness.
 - Sharpen the blade edge at 45 degrees.

Side view



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.



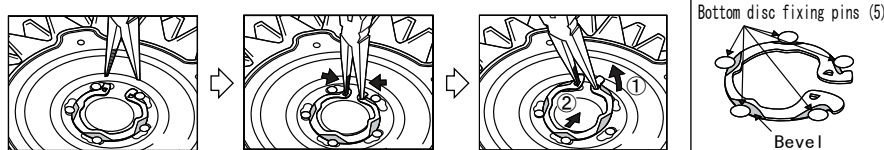
BLADE REPLACEMENT

WARNING

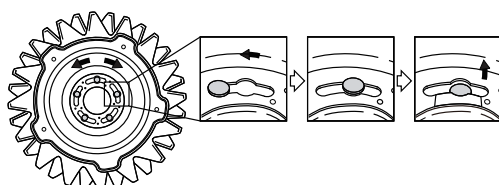
Make sure the engine is stopped before replacing the blades. Wear gloves to handle the blades.

*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.

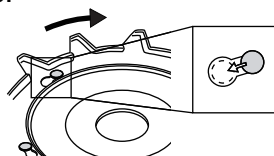


2. Remove the bottom disc.



Clean up main body and bottom disc before mounting new blade

3. Remove the upper and the lower blades.



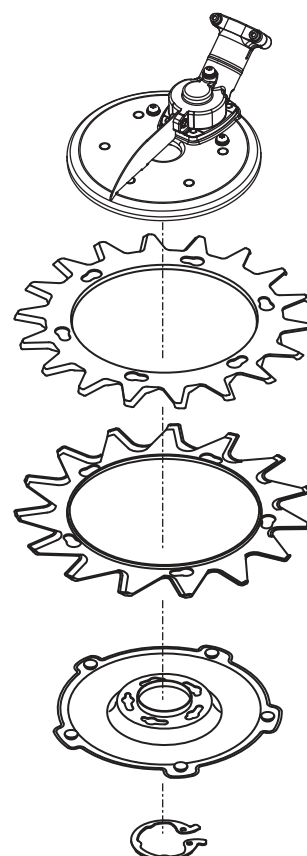
4. Clean up the body with a brush to remove grass and dirt and wash it with water.

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 glasses and gloves to handle the blades.

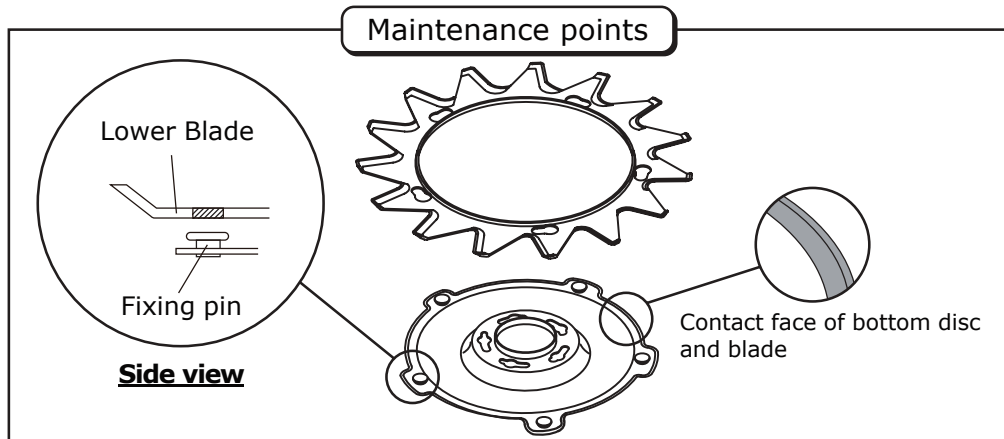
Lower Blade

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.

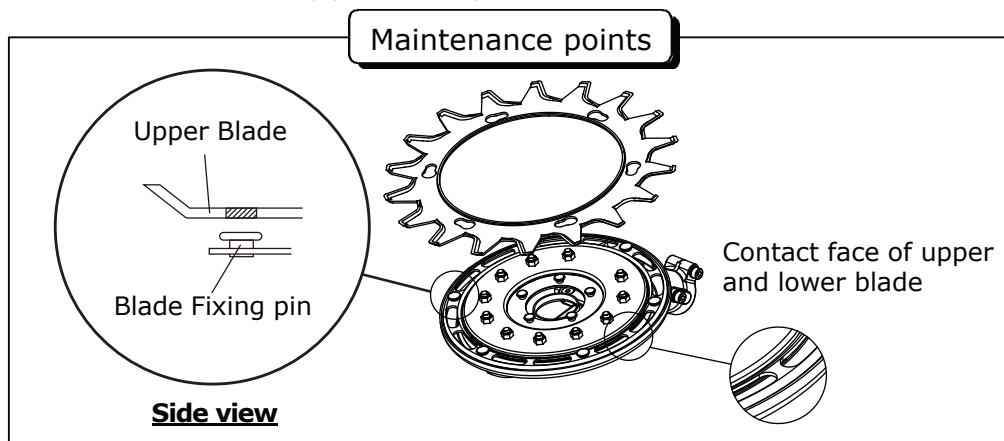


Upper Blade

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

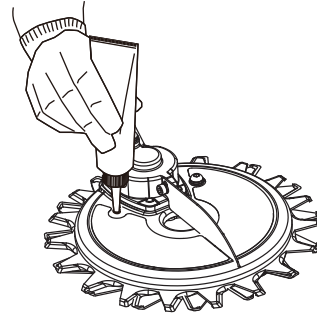
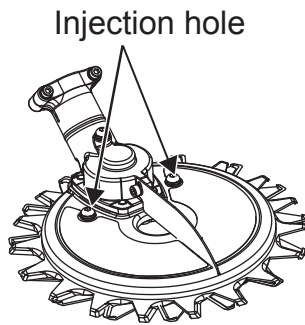
See **Maintenance points** below for more details.

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.

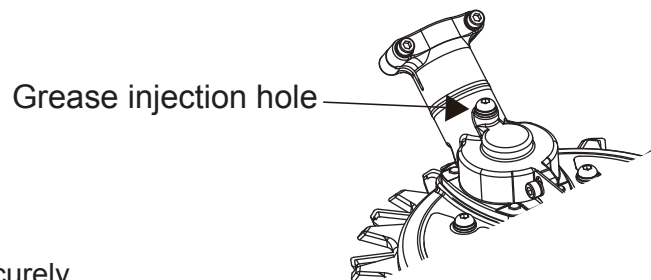


Lubrication

- 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 screw in the gear case, and inject about 10cc of grease into the hole every 25 hours of operation as a reference.



- 4 Insert the screw 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 person from the contamination to fresh air. Cover the person in a blanket to keep warm and keep them at rest. Get medical attention

Ingestion:

- Do not induce vomiting. Get immediate medical attention

Specifications

Model	ASK-MW23	ASK-MW28
Cutting method	Rotary scissor 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 (kW)	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
Blades do not turn or do not turn properly	Is the unit properly mounted?	Mount the unit properly.	4
	Any cracks or bends on the blades?	Replace the blade or blades.	8
	Any foreign objects caught in the blades?	Remove the objects.	9
	Is the product properly lubricated?	Inject grease periodically.	10
	Does the brush cutter engine function properly?	Check all engine functions.	
Abnormal noise or Abnormal vibration	Any foreign objects caught in the blades?	Remove the objects.	9
	Any cracks or bends on the blades?	Replace the blade or blades.	8
	Are the upper and lower blade properly mounted?	Check the blade mounting.	8
	Is the product properly lubricated?	Inject grease periodically.	10
	Is the product properly mounted to the brush cutter?	Check the mounting.	4
	Is the brush cutter drive shaft bent?	Check the brush cutter.	
Dull blade cutting	Any cracks or bends on the blades?	Replace the blade or blades.	8
	Are the blades worn?	Sharpen the blade.	7
	Is the engine speed correct?	Adjust the engine speed properly.	

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

Model Name : ASK-MW23/ASK-MW28

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,
Standards

EN ISO 12100 : 2010
EN ISO 11806-1 : 2011

Junya Itoh
President
IDECH CORPORATION
182 Kurita, Hojo-cho,
Kasai, Hyogo, Japan

Optional parts

Spare Blade LINE UP



Diameter:230mm
SK-1815NW

Standard



Diameter:220mm
SK-2824NW

Suitable for cutting thinner
softer grasses or lawn



Diameter:280mm
SK-2118VW

Suitable for edge trimming
increase work efficiency

Bottom disc LINE UP

Standard Bottom disc SUS



Cutting height 10mm
(Stainless Plate)

Model No.

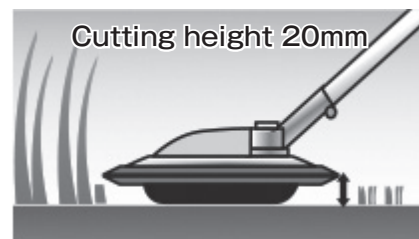
SKNW-19

BottomSlider20



(Nylon & Stainless Plate)

Model No.
SKBSW-20

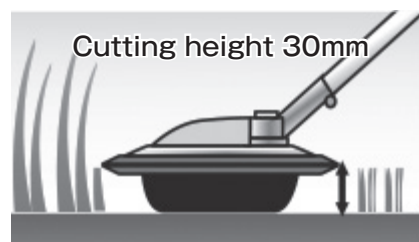


BottomSlider30



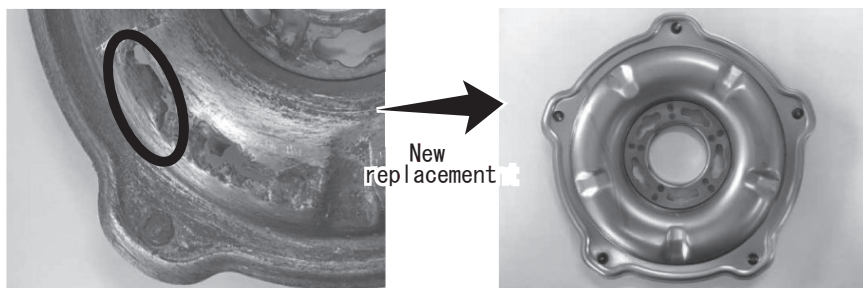
(Nylon & Stainless Plate)

Model No.
SKBSW-30



About the Bottom disc

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



※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.

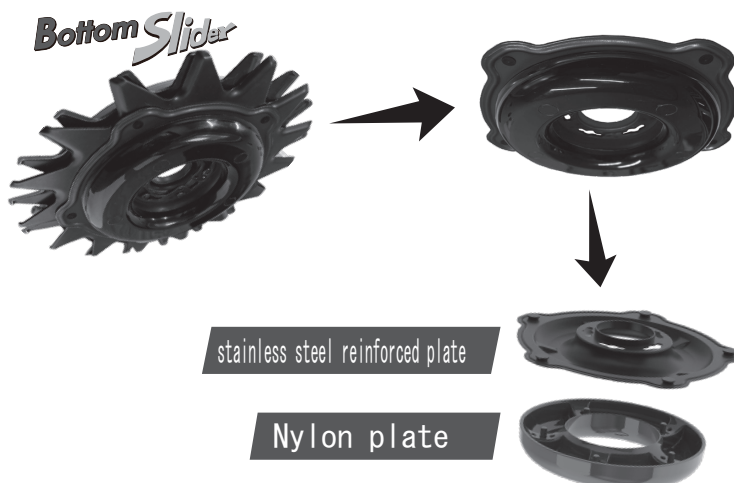
Improved durability and operability

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.

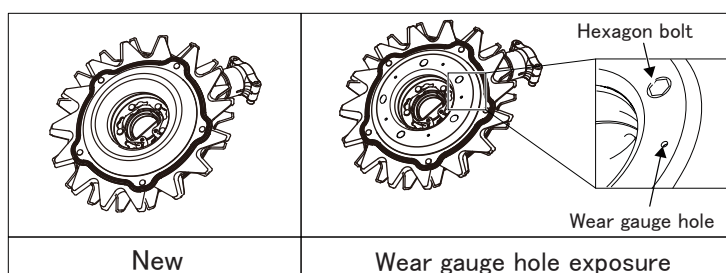


※Can be installed on existing Power Rotary scissors

●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 Nylon 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.





182 Kurita, Hojo-cho, Kasai Hyogo 675-2302 Japan

TEL:+81-790-42-6688

FAX:+81-790-42-6633

URL <http://www.idech.co.jp>

E-mail info@idech.co.jp