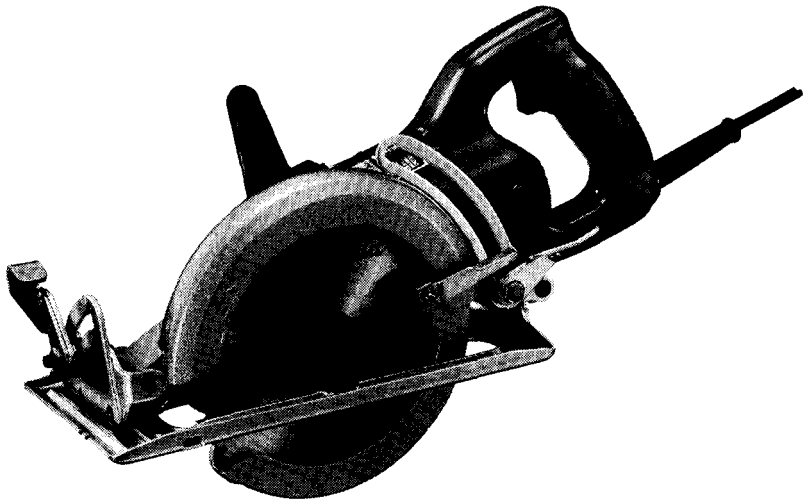


Makita

7-1/4" Hypoid Saw

185 mm (7-1/4") MODEL 5077B
Equipped with Electric Blade Brake

INSTRUCTION MANUAL



**DOUBLE
INSULATION**

SPECIFICATIONS

Blade diameter	Max. cutting capacity	No load speed	Overall length	Net weight
185 mm (7-1/4")	62 mm (2-3/8")	4,300 R/min.	439 mm (17-1/4")	6.3 kg (13.9 lbs)

- * Manufacturer reserves the right to change specifications without notice.
- * Note: Specifications may differ from country to country.

IMPORTANT SAFETY INSTRUCTIONS

(For All Tools)

WARNING: When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

READ ALL INSTRUCTIONS.

1. **Keep work area clean.** Cluttered areas and benches invite injuries.
2. **Consider work area environment.** Do not use power tools in damp or wet locations. Keep work area well lit. Do not expose power tools to rain. Do not use tool in presence of flammable liquids or gases.
3. **Keep children away.** All visitors should be kept away from work area. Do not let visitors contact tool or extension cord.
4. **Store idle tools.** When not in use, tools should be locked-up or stored in a dry, high place — out of reach of children.
5. **Do not force tool.** It will do the job better and safer at the rate for which it was intended.
6. **Use correct tool.** Do not force small tool or attachment to do the job of a heavy-duty tool. Do not use tool for purpose not intended; for example, don't use circular saw for cutting tree limbs or logs.
7. **Dress appropriately.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
8. **Use safety glasses.** Also use face or dust mask if cutting operation is dusty.
9. **Do not abuse cord.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
10. **Secure workpiece.** Use clamps or a vise to hold work. It is safer than using your hand; it also leaves both hands free to operate tool.
11. **Do not over-reach.** Keep proper footing and balance at all times.
12. **Maintain tools with care.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and, if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
13. **Disconnect tools** when not in use, before servicing, and when changing accessories, such as blades, bits, and cutters.
14. **Remove adjusting keys and wrenches.** Check to ensure that keys and adjusting wrenches are removed from tool before turning the tool on.
15. **Avoid unintentional starting.** Do not carry plugged-in tool with finger on switch. Be sure switch is OFF when plugging in.
16. **Check damaged parts.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect tool operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Defective switches should be replaced by an authorized service center. Do not use tool if the switch does not turn it on and off.

17. **Extension cords.** Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Table 1. MINIMUM GAUGE FOR CORD SETS

		Total Length of Cord in Feet			
		0 – 25	26 – 50	51 – 100	101 – 150
Ampere Rating	More Than Not More Than	AWG			
		0 – 6	18	16	16
6 – 10	18	16	14	12	
10 – 12	16	16	14	12	
12 – 16	14	12	Not recommended		

18. **Outdoor use extension cords.** When tool is used outdoors, use only extension cords intended for outdoor use and so marked.
19. **Stay alert.** Watch what you are doing. Do not operate tool when you are tired.
20. **Guard against electric shock.** Prevent body contact with grounded surfaces, for example: pipes, radiators, ranges, refrigerator enclosures.
21. **Replacement parts.** When servicing, use only identical replacement part.
22. **Polarized plugs:** To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

VOLTAGE WARNING: Before connecting the tool to a power source (receptacle outlet, etc.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that specified for the tool can result in **SERIOUS INJURY** to the user, as well as damage the tool. If in doubt, **DO NOT PLUG IN THE TOOL**. Using a power source with voltage less than the nameplate rating is harmful to the motor.

ADDITIONAL SAFETY RULES

1. Keep Guards In Place and In Working Order.

Never wedge or tie lower guard open. Check operation of lower guard before each use. Don't use if lower guard does not close briskly over saw blade. **CAUTION:** If saw is dropped, lower guard may be bent, restricting full return.

2. Keep Blades Clean and Sharp.

Sharp blades minimize stalling and kickback.

3. DANGER: Keep Hands Away From Cutting Area.

Keep hands away from blades. Don't reach underneath work while blade is rotating. Don't attempt to remove cut material when blade is moving. **CAUTION:** Blades coast after turn off.

4. Support Large Panels.

Large panels must be supported as shown in Fig. 1 to minimize the risk of blade pinching and kickback. When cutting operation requires the resting of the saw on the work piece, the saw shall be rested on the larger portion and the smaller piece cut off.

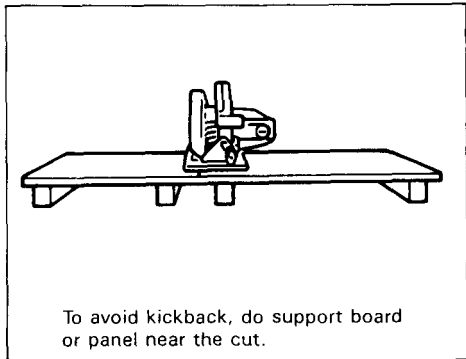


Fig. 1

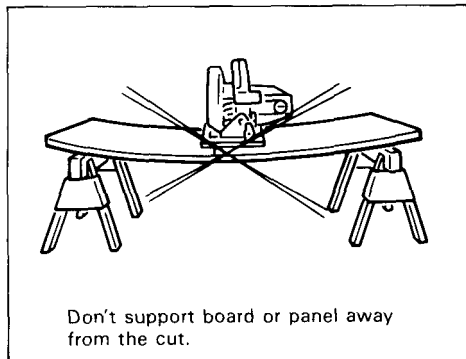


Fig. 2

5. Use Rip Fence.

Always use a fence or straight edge guide when ripping.

6. Guard Against Kickback.

Kickback occurs when the saw stalls rapidly and is driven back towards the operator. Release switch immediately if blade binds or saw stalls. Keep blades sharp. Support large panels as shown in Fig. 1. Use fence or straight edge guide when ripping. Don't force tool. Stay alert exercise control. Don't remove saw from work during a cut while the blade is moving.

NEVER place your hand or fingers behind the saw. If kickback occurs, the saw could easily jump backwards over your hand, possibly causing severe injury.

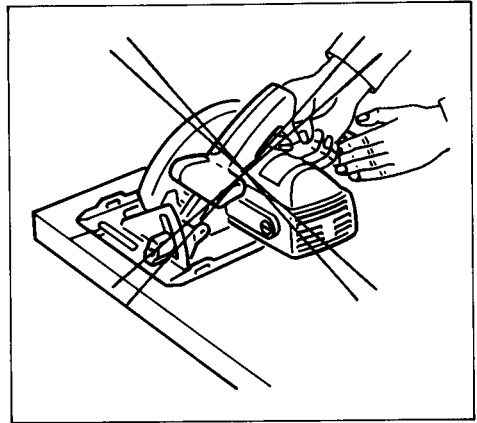
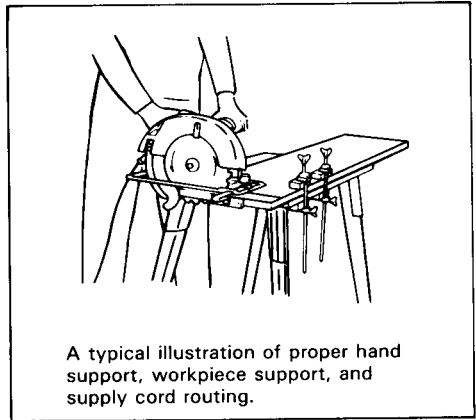


Fig. 3

7. Lower Guard. Raise lower guard with the retracting handle.
8. Adjustments. Before cutting be sure depth and bevel adjustments are tight.
9. Use Only Correct Blades In Mounting. Don't use blades with incorrect size holes. Never use defective or incorrect blade washers or bolts.
10. Avoid Cutting Nails. Inspect for and remove all nails from lumber before cutting.
11. When operating the saw, keep the cord away from the cutting area and position it so that it will not be caught on the workpiece during the cutting operation. Operate with proper hand support, proper workpiece support, and supply cord routing away from the work area.



A typical illustration of proper hand support, workpiece support, and supply cord routing.

Fig. 4

WARNING:

It is important to support the workpiece properly and to hold the saw firmly to prevent loss of control which could cause personal injury. Fig. 4 illustrates typical hand support of the saw.

12. Place the wider portion of the saw base on that part of the workpiece which is solidly supported, not on the section that will fall off when the cut is made. As examples, Fig. 5 illustrates the RIGHT way to cut off the end of a board, and Fig. 6 the WRONG way. If the workpiece is short or small, clamp it down. **DON'T TRY TO HOLD SHORT PLECES BY HAND!**

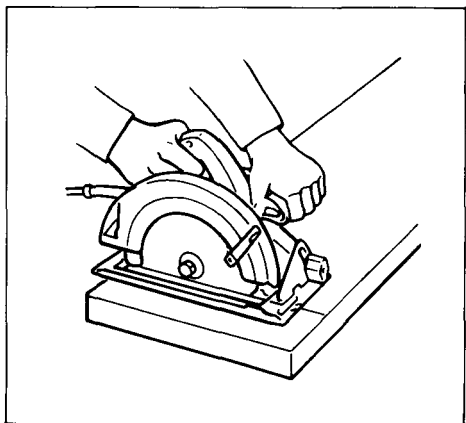


Fig. 5

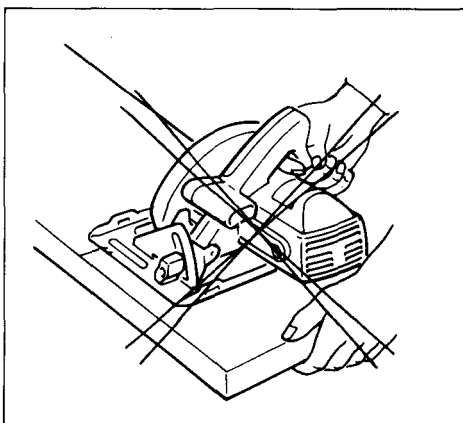


Fig. 6

13. Never attempt to saw with the circular saw held upside down in a vise. This is extremely dangerous and can lead to serious accidents.

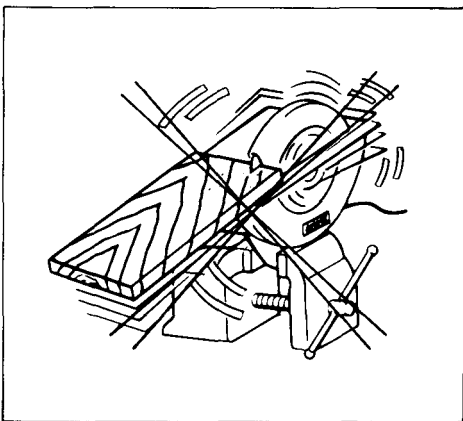


Fig. 7

14. Before setting the tool down after completing a cut, be sure that the lower (telescoping) guard has closed and the blade has come to a complete stop.

SAVE THESE INSTRUCTIONS.

Removing or installing saw blade

CAUTION:

Always be sure that the tool is switched off and unplugged before removing or installing the blade.

To remove the blade, press the shaft lock so that the blade cannot revolve and use the wrench to loosen the hex bolt clockwise. Then remove the hex bolt, outer flange and blade.

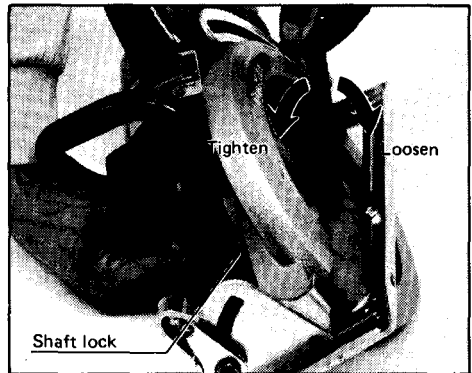


Fig. 8

To install the blade, follow the removal procedure in reverse. **BE SURE TO TIGHTEN THE HEX BOLT SECURELY.**

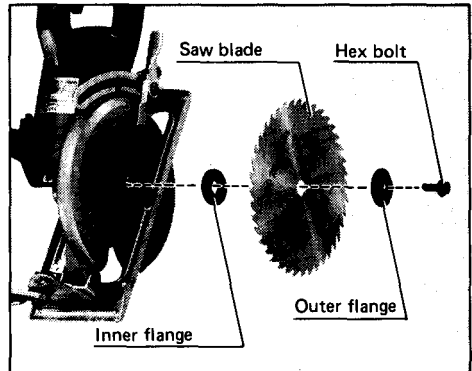


Fig. 9

CAUTION:

- Be sure the blade is installed with teeth pointing up at the front of the tool.
- Use only the Makita wrenches to install or remove the blade.
- One side of the inner flange is for 5/8" hole diameter of the blade; the other side is for 13/16" hole diameter.

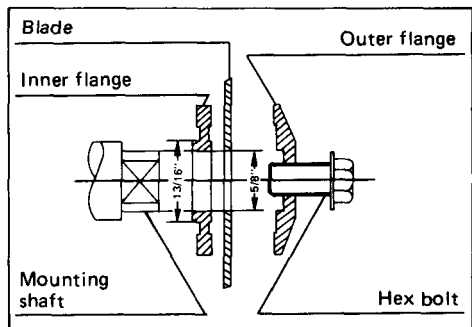


Fig. 10

Use the correct side for the hole diameter of the blade you intend to use. Mounting the blade on the wrong side can result in dangerous vibration.

Adjusting depth of cut

Loosen the lever on the depth guide and move the base up or down. At the desired depth of cut, secure the base by tightening the lever.

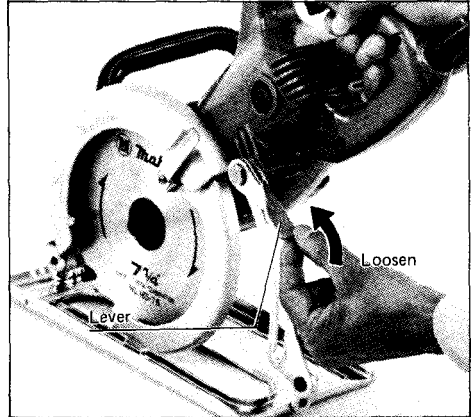


Fig. 11

CAUTION:

- Use a shallow depth of cut when cutting thin workpiece for cleaner, safer cuts.
- After adjusting the depth of cut, always tighten the lever securely.

Bevel cutting

Loosen the lever on the bevel scale plate on the front of the base. Set for the desired angle ($0^{\circ} - 45^{\circ}$) by tilting accordingly, then tighten the lever securely.

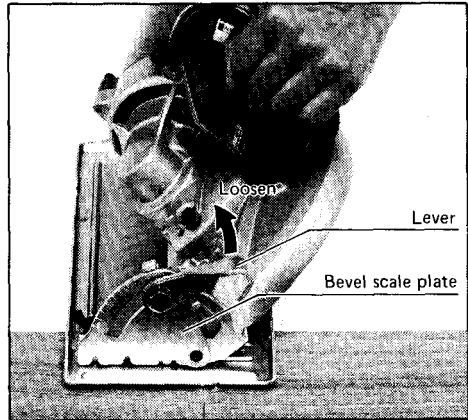


Fig. 12

Sighting

For straight cuts, align the left notch in the front of the base with your cutting line on the workpiece. For 45° bevel cuts, align the right notch with it.

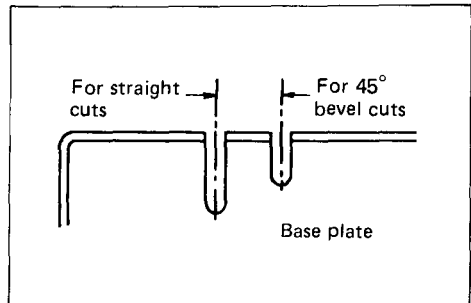


Fig. 13

Switch action

To start the tool, simply pull the trigger. Release the trigger to stop.

CAUTION:

Before plugging in the tool, always check to see that the trigger switch actuates properly and returns to the "OFF" position when released.

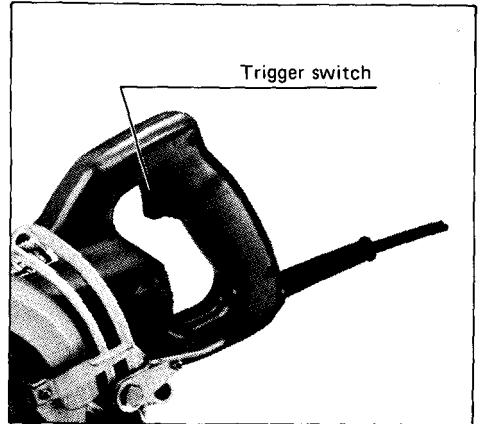


Fig. 14

Operation

Grasp the rear handle with your right hand, the front grip with your left. Set the base plate on the workpiece to be cut without the blade making any contact. Then turn the tool on and wait until the blade attains full speed. Now simply move the tool forward over the workpiece surface, keeping it flat and advancing smoothly until the sawing is completed. To get clean cuts, keep your sawing line straight and your speed of advance uniform.

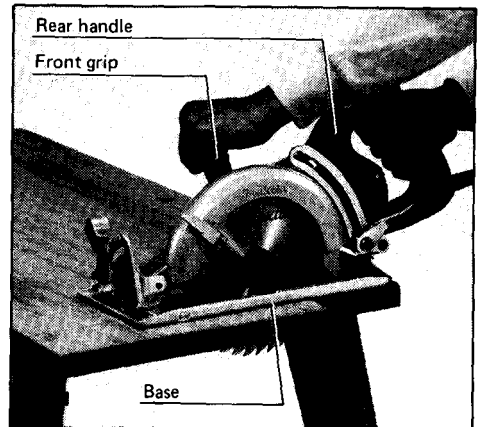


Fig. 15

Guide rule

The handy guide rule allows you to do extra-accurate straight cuts. Simply slide the guide rule up snugly against the side of the workpiece and secure it in position with the wing bolt on the front of the base. It also makes repeated cuts of uniform workpiece width possible, too.

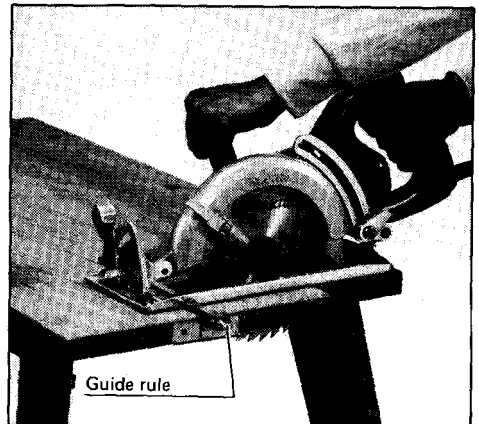


Fig. 16

MAINTENANCE

CAUTION:

Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

Replacing carbon brushes

Remove and check the carbon brushes regularly. Replace when they wear down to the limit mark. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only Makita carbon brushes.

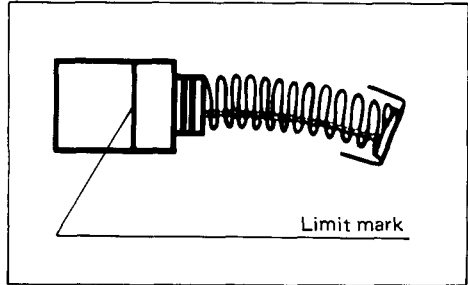


Fig. 17

Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.

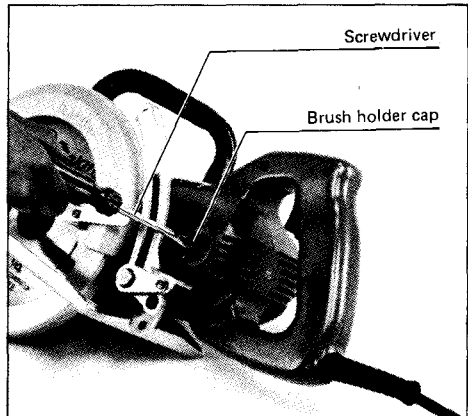


Fig. 18

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

OPTIONAL ACCESSORIES

The accessories listed in this manual are available at an extra cost from your Makita distributor or Makita factory service center. Service centers are listed on the warranty card packed with your tool.

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. The accessories or attachments should be used only in the proper and intended manner.

• Guide rule

Part No. 164095-8



• Steel carrying case

Part No. 823204-5



• Wrench 13

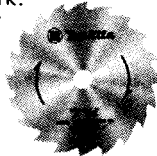
Part No. 782016-4



• Saws

Chisel tooth combination saw blade

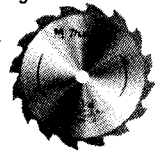
For rip and cross-cut work.
Most frequently used for
general carpentry.



Part No.	Diameter	Hole diameter	No. teeth
792436-4	7-1/4" (185 mm)	5/8"	20

Carbide-tipped saw blade

Faster, smoother, longer sawing
without blade sharpening.
Cuts wood, drywall, plastics,
hard wood, etc.



Part No.	Diameter	Hole diameter	No. teeth
792435-6	7-1/4" (185 mm)	5/8"	16

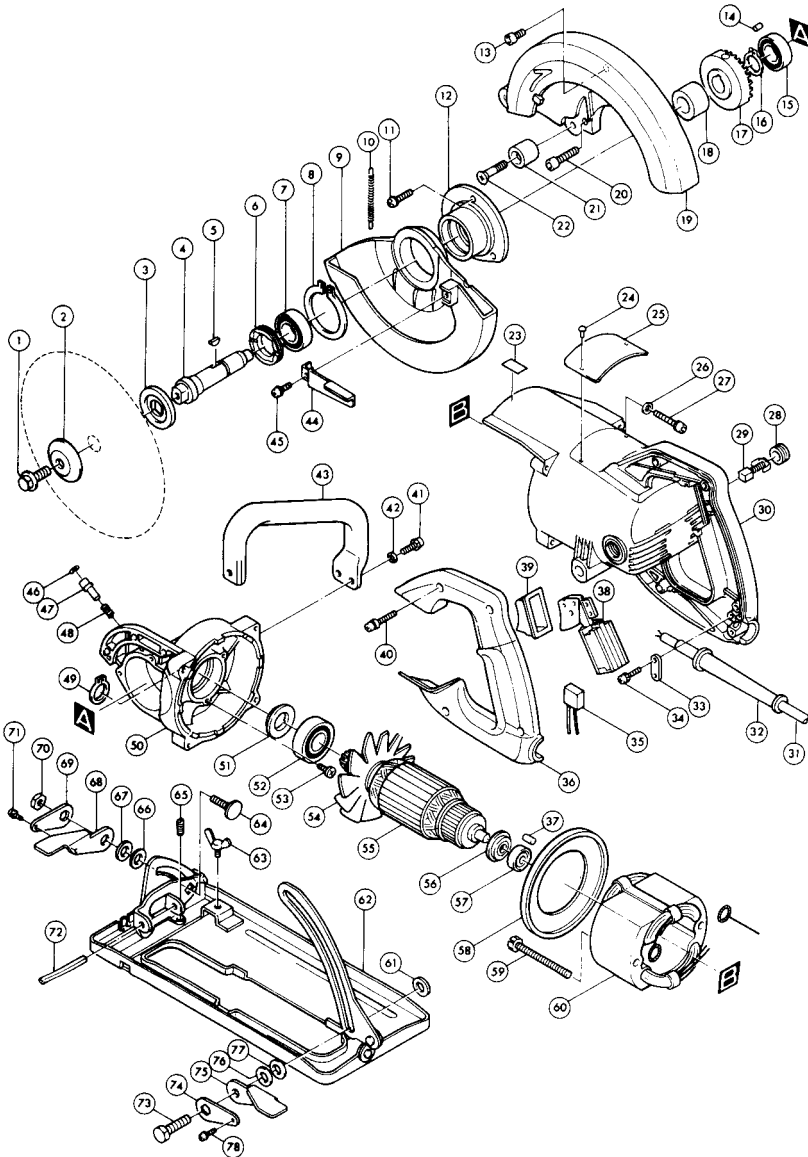
Combination saw blade

For rip and cross-cut work.



Part No.	Diameter	Hole diameter	No. teeth
792446-1	7-1/4" (185 mm)	5/8"	40

185 mm (7-1/4") HYPOID SAW Model 5077B



Note: The switch, noise suppressor and other part configurations may differ from country to country.

ITEM NO.	NO. USED	DESCRIPTION	ITEM NO.	NO. USED	DESCRIPTION
MACHINE			MACHINE		
1	1	Hex. Flange Head Bolt M8x20	41	2	Hex. Socket Head Bolt M5x14
2	1	Outer Flange 40	42	2	Flat Washer 5
3	1	Inner Flange 40	43	1	Side Grip
4	1	Spindle	44	1	Lever
5	1	Woodruff Key 4	45	1	Pan Head Screw M4x10 (With Washer)
6	1	Bearing Retainer 23 - 36	46	1	Ring Spring 8
7	1	Ball Bearing 6003LLB	47	1	Pin 6
8	1	Retaining Ring S - 42	48	1	Compression Spring 7
9	1	Safety Cover	49	1	Retaining Ring S - 17
10	1	Tension Spring 4	50	1	Gear Housing
11	3	Pan Head Screw M5x20 (With Washer)	51	1	Seal Ring 17
12	1	Bearing Box	52	1	Ball Bearing 6203LLB
13	1	Hex. Socket Head Bolt M6x12	53	3	Binding Head Screw M5x12
14	1	Rubber Pin 4	54	1	Fan 92
15	1	Ball Bearing 6000LLB	55	1	ARMATURE ASSEMBLY (With Item 52 & 54 - 57)
16	1	Retaining Ring S - 16	56	1	Insulation Washer
17	1	Hypoid Gear 36	57	1	Ball Bearing 608LB
18	1	Sleeve 16	58	1	Baffle Plate
19	1	Blade Case	59	2	Hex. Bolt M5x65 (With Washer)
20	3	Hex. Socket Head Bolt M6x25 (With Washer)	60	1	FIELD ASSEMBLY
21	1	Rubber Sleeve 6	61	1	Flat Washer 8
22	1	Countersunk Head Screw M6x28	62	1	Base
23	1	Indication Label	63	1	Wing Bolt M5x10
24	2	Rivet 0 - 5	64	1	Cap Square Neck Bolt M8x24
25	1	Name Plate	65	1	Screw M5x12
26	4	Flat Washer 5	66	1	Flat Washer 8
27	4	Hex. Socket Head Bolt M5x30	67	1	Flat Washer 8
28	2	Brush Holder Cap	68	1	Lever Plate
29	2	Carbon Brush	69	1	Lock Plate
30	1	Motor Housing	70	1	Hex. Nut M8
31	1	Cord	71	1	Pan Head Screw M4x8 (With Washer)
32	1	Cord Guard	72	1	Spring Pin 6 - 45
33	1	Strain Relief	73	1	Hex. Bolt M8x28
34	2	Pan Head Screw M4x18 (With Washer)	74	1	Lock Plate
36	1	Handle Cover	75	1	Lever Plate
37	1	Rubber Pin 4	76	1	Flat Washer 8
38	1	Switch	77	1	Flat Washer 8
39	1	Dust Cover	78	1	Pan Head Screw M4x8 (With Washer)
40	4	Pan Head Screw M4x25 (With Washer)			

Note: The switch and other part specifications may differ from country to country.

MAKITA LIMITED ONE YEAR WARRANTY

Warranty Policy

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one-year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or Authorized Service Centers. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair (or at our option, replace) without charge.

This Warranty does not apply where:

- repairs have been made or attempted by others;
- repairs are required because of normal wear and tear;
- The tool has been abused, misused or improperly maintained;
- alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE-YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

Makita Corporation of America

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