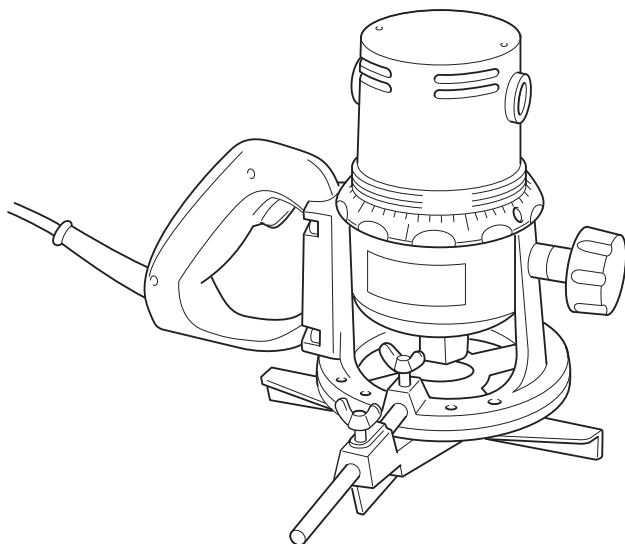




# Router

**12 mm (1/2") MODEL 3600H**

## INSTRUCTION MANUAL



### SPECIFICATIONS

Collet chuck capacity	No load speed (RPM)	Overall length	Net weight
12 mm (1/2")	24,000	210 mm (8-1/4")	4.3 kg (9.5 lbs)

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

## **IMPORTANT SAFETY INSTRUCTIONS**

**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.** Don't use power tools in damp or wet locations. Keep work area well lit. Don't expose power tools to rain. Don't use tool in presence of flammable liquids or gases.
3. **KEEP CHILDREN AWAY.** All visitors should be kept away from work area. Don't let visitors contact tool or extension cord.
4. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place — out of reach of children.
5. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was intended.
6. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended.
7. **DRESS PROPERLY.** Don't 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. **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
10. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
11. **DON'T OVERREACH.** 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, cutters.
14. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
15. **AVOID UNINTENTIONAL STARTING.** Don't carry plugged-in tool with finger on switch. Be sure switch is OFF when plugging in.
16. **OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords intended for use outdoors and so marked.

17. **STAY ALERT.** Watch what you are doing, use common sense. Don't operate tool when you are tired.
18. **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 its 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. Have defective switches replaced by authorized service center. Don't use tool if switch does not turn it on and off.
19. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.
20. **PROPER GROUNDING.** This tool should be grounded while in use to protect the operator from electric shock.
21. **EXTENSION CORDS:** Use only three-wire extension cords which have three-prong grounding-type plugs and three-pole receptacles which accept the tool's plug. Replace or repair damaged or worn cord immediately.

**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 to 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. Handle the bits very carefully.
2. Check the bit carefully for cracks or damage before operation. Replace cracked or damaged bit immediately.
3. Avoid cutting nails. Inspect for and remove all nails from the workpiece before operation.
4. Hold the tool firmly with both hands.
5. Keep hands away from rotating parts.
6. Make sure the bit is not contacting the workpiece before the switch is turned on.
7. Before using the tool on an actual workpiece, let it run for a while. Watch for vibration or wobbling that could indicate improperly installed bit.
8. Be careful of the bit rotating direction and the feed direction.
9. Do not leave the tool running. Operate the tool only when hand-held.
10. Always switch off and wait for the bit to come to a complete stop before removing the tool from workpiece.
11. Do not touch the bit immediately after operation, it may be extremely hot and could burn your skin.

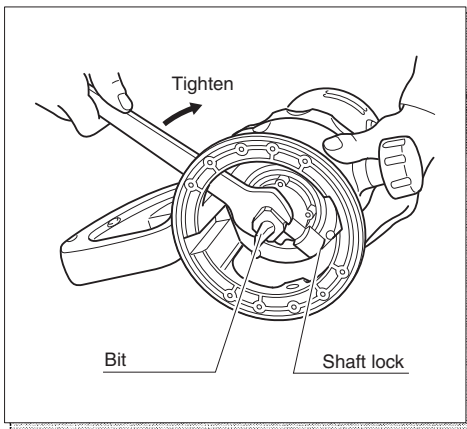
**SAVE THESE INSTRUCTIONS.**

### Installing or removing router bit

#### CAUTION:

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

Insert the bit all the way into the collet cone and withdraw it very slightly (approx. 2 mm; 1/16"). Press the shaft lock to keep the shaft stationary and use the wrench to tighten the collet nut securely. When using smaller shank bits, first insert the appropriate collet sleeve into the collet cone, then install the bit as mentioned above. To remove the bit, follow the installation procedure in reverse.

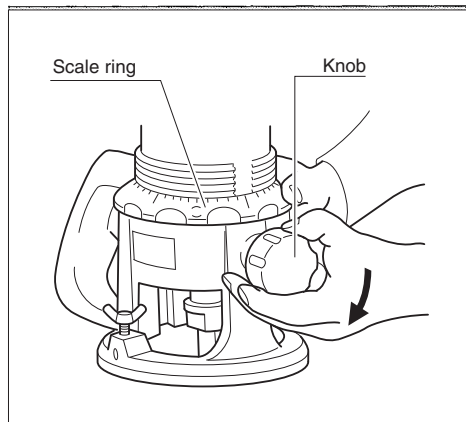


#### CAUTION:

Do not tighten the collet nut without inserting a bit or install smaller shank bits without using a collet sleeve. Either can lead to breakage of the collet cone.

### Adjusting depth of cut

Place the tool on a flat surface. Turn the scale ring until it makes contact with the base. Loosen the knob. Turn the scale ring until the bit just touches the flat surface. Tighten the knob. Place the tool upside down and turn the scale ring counterclockwise (when viewing the tool from the top) until the desired depth of cut is obtained. One full turn of the scale ring is equal to 5 mm (about 3/16") change in depth setting. Loosen the knob and move the tool base until it makes contact with the scale ring. Then tighten the knob securely.

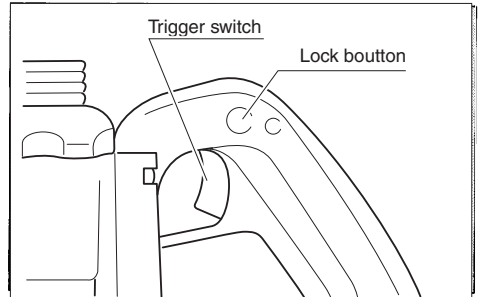


#### CAUTION:

Since excessive cutting may cause overload of the motor or difficulty in controlling the tool, the depth of cut should not be more than 15 mm (5/8") at a pass when cutting grooves. When you wish to cut grooves more than 15 mm (5/8") deep, make several passes with progressively deeper bit settings.

### Switch action

To start the tool, simply pull the trigger. Release the trigger to stop. For continuous operation, pull the trigger and then push in the lock button. To stop the tool from the locked position, pull the trigger fully, then release it.

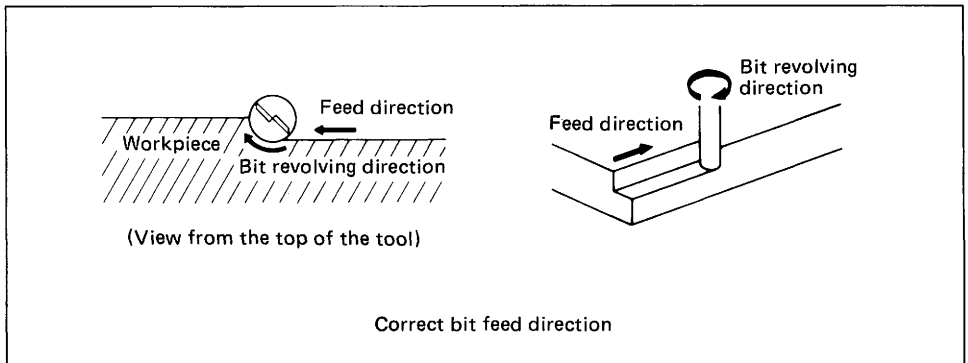


### CAUTION:

- Before plugging in the tool, always check to see that the trigger switch actuates properly and returns to the "OFF" position when released.
- Make sure the shaft lock is released before the switch is turned on.

### Operation

- Set the tool base on the workpiece to be cut without the bit making any contact. Then turn the tool on and wait until the bit attains full speed. Move the tool forward over the workpiece surface, keeping the tool base flush and advancing smoothly until the cutting is complete.
- When doing edge cutting, the workpiece surface should be on the left side of the bit in the feed direction. (see the figure below)

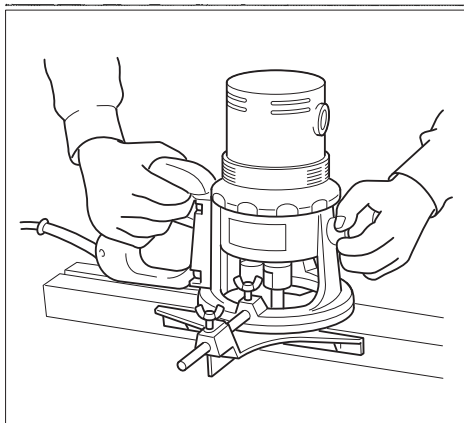


### NOTE:

- Moving the tool forward too fast may cause a poor quality of cut, or damage to the bit or motor. Moving the tool forward too slowly may burn and mar the cut. The proper feed rate will depend on the bit size, the kind of workpiece and depth of cut. Before beginning the cut on the actual workpiece, it is advisable to make a sample cut on a piece of scrap lumber. This will show exactly how the cut will look as well as enable you to check dimensions.
- When using the straight guide or the trimmer guide, be sure to install it on the right side in the feed direction. This will help to keep it flush with the side of the workpiece.

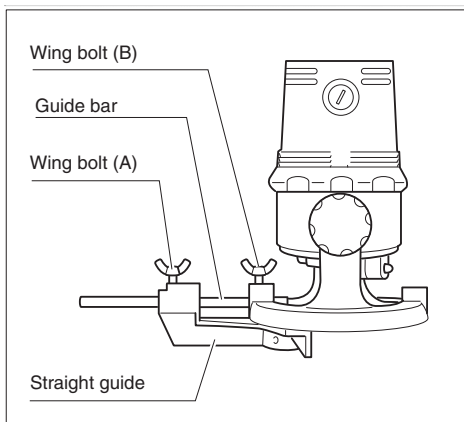
### Straight guide

The straight guide is effectively used for straight cuts when chamfering or grooving.



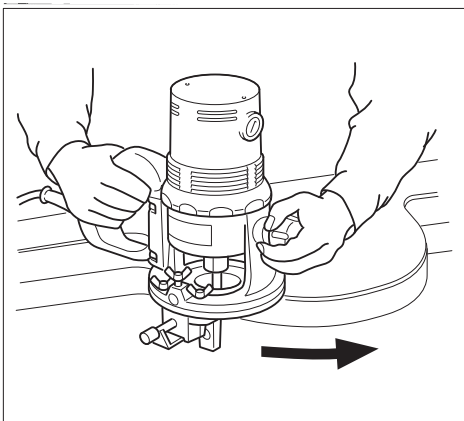
To install the straight guide, insert the guide bar into the hole in the tool base until the notch in the guide bar reaches just under the wing bolt (B). Then tighten the wing bolt (B). Loosen the wing bolt (A) and adjust the distance between the bit and the straight guide. Then tighten the wing bolt (A) to secure the straight guide in place.

When cutting, move the tool with the straight guide flush with the side of the workpiece.

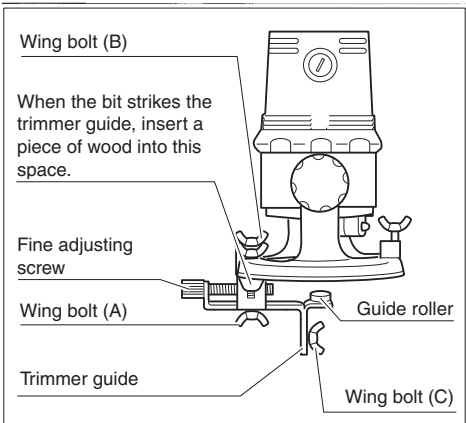


### Trimmer guide

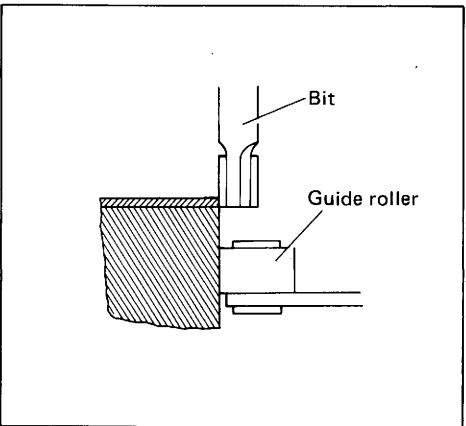
Trimming, curved cuts in veneers for furniture and the like can be done easily with the trimmer guide. The guide roller rides the curve and assures a fine cut.



Install the trimmer guide on the tool base with the wing bolts (B). Loosen the wing bolt (A) and adjust the distance between the bit and the trimmer guide by turning the fine adjusting screw (1.5 mm or about 1/16" per turn). At the desired distance, tighten the wing bolt (A) to secure the trimmer guide in place. When adjusting the guide roller up or down, loosen the wing bolt (C), after adjusting it, tighten the wing bolt (C) securely.

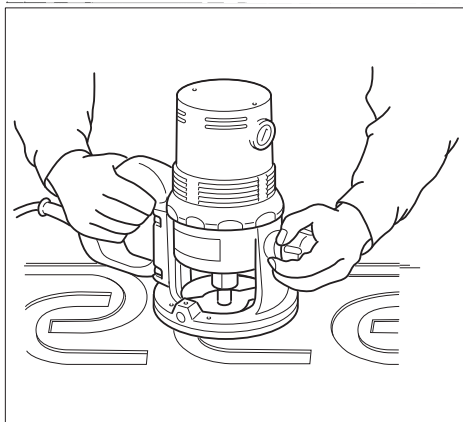


When cutting, move the tool with the guide roller riding the side of the workpiece.

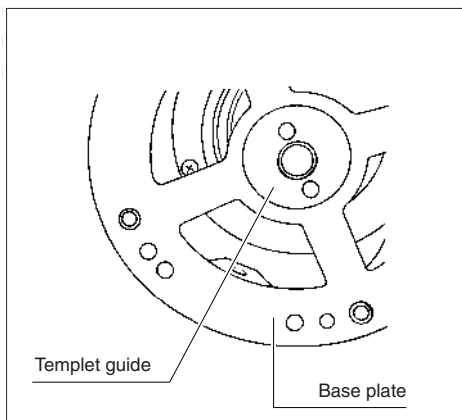


### Templet guide

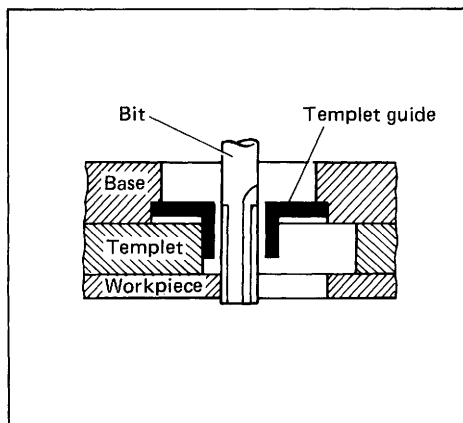
The templet guide provides a sleeve through which the bit passes, allowing use of the router with templet patterns.



Screw the templet guide on the base plate.



Secure the templet to the workpiece. Place the tool on the templet and move the tool with the templet guide sliding along the side of the templet.



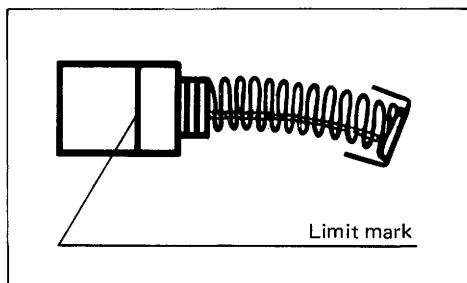
## MAINTENANCE

### CAUTION:

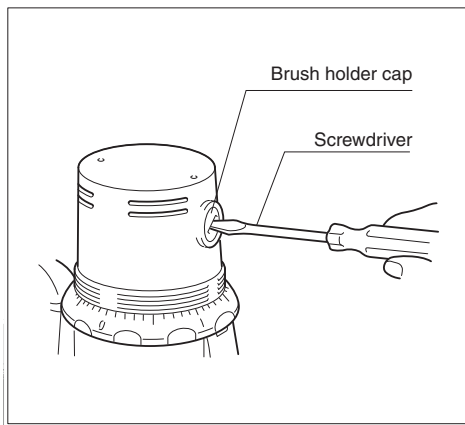
Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

### 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 identical carbon brushes.



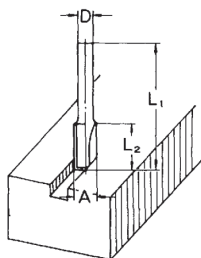
Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.



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.

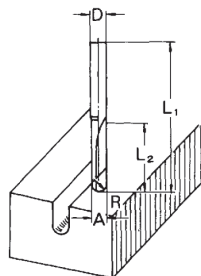
## Router Bits

### Straight bit



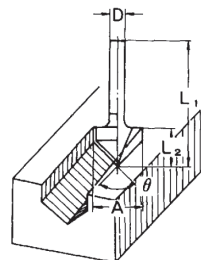
mm					
Part No.		D	A	L <sub>1</sub>	L <sub>2</sub>
793143-2	20	6	20 (25/32")	50 (1-31/32")	15 (19/32")
793160-2	20E	1/4			
793060-6	12	12	12 (15/32")	60 (2-3/8")	30 (1-3/16")
793088-4	12E	1/2			
793059-1	10	12	10 (25/64")	60 (2-3/8")	25 (63/64")
793102-6	10E	1/2			
793126-2	8	8	8 (5/16")	60 (2-3/8")	25 (63/64")
793077-9	8	6	6 (5/16")	50 (1-31/32")	18 (45/64")
793103-4	8E	1/4			
793076-1	6	6	6 (15/64")	50 (1-31/32")	18 (45/64")
793074-5	6E	1/4			
793367-0	20	12	20 (25/32")	60 (2-3/8")	20 (25/32")
793368-8	20E	1/2			

### "U" Grooving bit



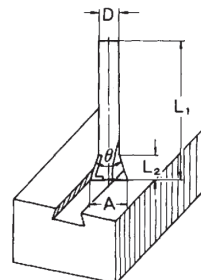
mm						
Part No.		D	A	L <sub>1</sub>	L <sub>2</sub>	R
793065-6	12	12	12 (15/32")	55 (2-5/32")	20 (25/32")	6 (15/64")
793100-0	12E	1/2				
793079-5	6	6	6 (15/64")	60 (2-3/8")	28 (1-3/32")	3 (1/8")
793101-8	6E	1/4				

### "V" Grooving bit



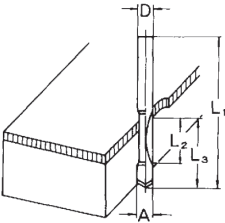
						mm
Part No.		D	A	L <sub>1</sub>	L <sub>2</sub>	θ
793193-7	20	6	20 (25/32")	50 (1-31/32")	15 (19/32")	90°
793194-5	20E	1/4				

### Dovetail bit



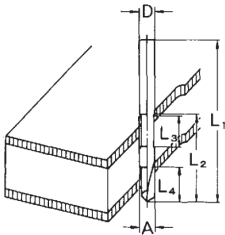
mm						
Part No.		D	A	L <sub>1</sub>	L <sub>2</sub>	θ
793095-7	15S	8	14.5 (9/16")	55 (2-5/32")	10 (25/64")	35°
793124-6	15SE	3/8				
793094-9	15L	8	14.5 (9/16")	55 (2-5/32")	14.5 (9/16")	23°
793125-4	15LE	3/8				
793066-4	12	8	12 (15/32")	50 (1-31/32")	9 (23/64")	30°
793123-8	12E	3/8				

Drill point flush trimming bit



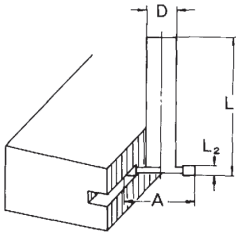
mm						
Part No.		D	A	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
793064-8	12	12	12	60	20	35
793106-8	12E	1/2	(15/32")	(2-3/8")	(25/32")	(1-3/8")
793063-0	8	8	8	60	20	35
793107-6	8E	3/8	(5/16")	(2-3/8")	(25/32")	(1-3/8")
793078-7	6	6	6	60	18	28
793108-4	6E	1/4	(15/64")	(2-3/8")	(45/64")	(1-3/32")

Drill point double flush trimming bit



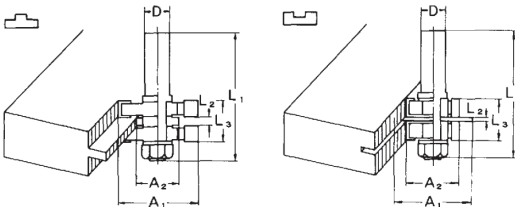
mm							
Part No.		D	A	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>
793062-2	12	12	12	80	55	20	25
793109-2	12E	1/2	(15/32")	(3-5/32")	(2-5/32")	(25/32")	(63/64")
793127-0	12	12	8	80	55	20	25
793061-4	8	8	(5/16")	(3-5/32")	(2-5/32")	(25/32")	(63/64")
793110-7	8E	3/8	6	70	40	12	14
793091-5	6	6	(15/64")	(2-3/4")	(1-37/64")	(15/32")	(35/64")
793111-5	6E	1/4					

Slotting cutter



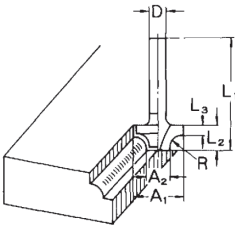
mm				
Part No.		D	L <sub>1</sub>	L <sub>2</sub>
793068-0	6	12	55	6
793121-2	6E	1/2	(2-5/32")	(15/64")
793067-2	3	12	55	3
793122-0	3E	1/2	(2-5/32")	(1/8")

Board-jointing bit



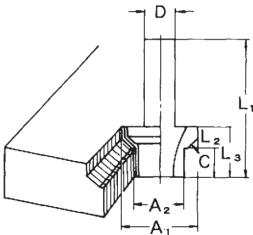
mm						
Part No.		D	A <sub>1</sub>	A <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>
793190-3		12	38	27	61	4
793192-9		1/2	(1-1/2")	(1-1/16")	(2-13/32")	(5/32")
793189-8		12	38	26	61	4
793191-1		1/2	(1-1/2")	(1-1/32")	(2-13/32")	(5/32")

**Corner rounding bit**



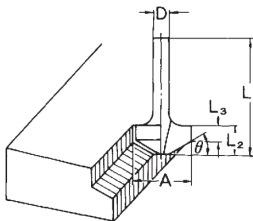
mm								
Part No.		D	A <sub>1</sub>	A <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	R
793142-4	8R	6	25 (63/64")	9 (23/64")	48 (1-57/64")	13 (33/64")	5 (13/64")	8 (5/16")
793159-7	8RE	1/4						
793070-3	6R	12	20 (25/32")	8 (5/16")	50 (1-31/32")	10 (25/64")	4 (5/32")	6 (15/64")
793104-2	6RE	1/2						
793081-8	4R	6	20 (25/32")	8 (5/16")	45 (1-25/32")	10 (25/64")	4 (5/32")	4 (5/32")
793105-0	4RE	1/4						

**Chamfering bit**



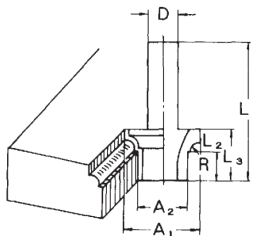
mm								
Part No.		D	A <sub>1</sub>	A <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	C
793072-9	30	12	30 (1-3/8")	20 (25/32")	55 (2-5/32")	12 (15/32")	20 (25/32")	4 (5/32")
793114-9	30E	1/2						

**Chamfering bit**



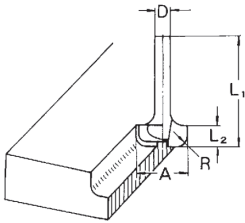
mm								
Part No.		D	A	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	$\theta$	
793144-0	30°	6	23 (29/32")	46 (1-13/16")	11 (7/16")	6 (15/64")	30°	
793161-0	30°E	1/4						
793080-0	45°	6	20 (25/32")	50 (1-31/32")	13 (33/64")	5 (13/64")	45°	
793075-3	45°E	1/4						
793145-8	60°	6	20 (25/32")	49 (1-15/16")	14 (35/64")	2 (5/64")	60°	
793162-8	60°E	1/4						

**Beading bit**



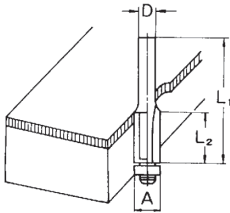
mm								
Part No.		D	A <sub>1</sub>	A <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	R
793071-1	4R	12	30 (1-3/16")	20 (25/32")	55 (2-5/32")	12 (15/32")	20 (25/32")	4 (5/32")
793113-1	4RE	1/2						

## Cove beading bit



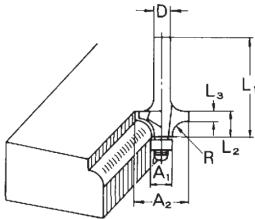
mm						
Part No.		D	A	L <sub>1</sub>	L <sub>2</sub>	R
793146-6	4R	6	20 (25/32")	43 (1-11/16")	8 (5/16")	4 (5/32")
793163-6	4RE	1/4				
793147-4	8R	6	25 (63/64")	48 (1-57/64")	13 (33/64")	8 (5/16")
793164-4	8RE	1/4				

## Ball bearing flush trimming bit



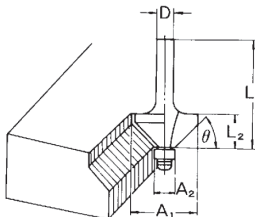
mm					
Part No.		D	A	L <sub>1</sub>	L <sub>2</sub>
793148-2	10	6	10 (25/64")	50 (1-31/32")	20 (25/32")
793165-2	10E	1/4			

## Ball bearing corner rounding bit



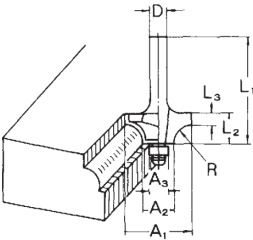
mm								
Part No.		D	A <sub>1</sub>	A <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	R
793151-3	1	6	15 (19/32")	8 (5/16")	37 (1-15/32")	7 (9/32")	3.5 (9/64")	3 (1/8")
793168-6	1E	1/4						
793152-1	2	6	21 (53/64")	8 (5/16")	40 (1-37/64")	10 (25/64")	3.5 (9/64")	6 (15/64")
793169-4	2E	1/4						

## Ball bearing chamfering bit



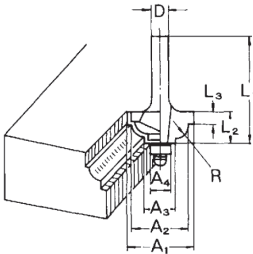
mm							
Part No.		D	A <sub>1</sub>	A <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	θ
793149-0	45°	6	26 (1-1/32")	8 (5/16")	42 (1-21/32")	12 (15/32")	45°
793166-0	45°E	1/4					
793150-5	60°	6	20 (25/32")	8 (5/16")	41 (1-5/8")	11 (7/16")	60°
793167-8	60°E	1/4					

Ball bearing beading bit



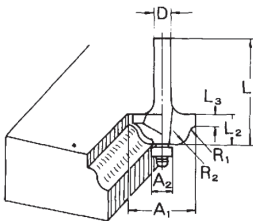
mm									
Part No.		D	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	R
793153-9	2	6	20	12	8	40	10	5.5	4
793170-9	2E	1/4	(25/32")	(15/32")	(5/16")	(1-37/64")	(25/64")	(7/32")	(5/32")
793154-7	3	6	26	12	8	42	12	4.5	7
793171-7	3E	1/4	(1-1/32")	(15/32")	(5/16")	(1-21/32")	(15/32")	(11/64")	(9/32")

Ball bearing cove beading bit



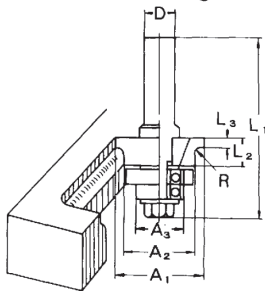
mm									
Part No.		D	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	L <sub>1</sub>	L <sub>2</sub>	R
793157-1	2	6	20	18	12	8	40	10	5.5
793174-1	2E	1/4	(25/32")	(45/64")	(15/32")	(5/16")	(1-37/64")	(25/64")	(7/32")
793158-9	3	6	26	22	12	8	42	12	5
793175-9	3E	1/4	(1-1/32")	(7/8")	(15/32")	(5/16")	(1-21/32")	(15/32")	(13/64")

Ball bearing roman ogee bit



mm									
Part No.		D	A <sub>1</sub>	A <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	R <sub>1</sub>	R <sub>2</sub>
793155-5	2	6	20	8	40	10	4.5	2.5	4.5
793172-5	2E	1/4	(25/32")	(5/16")	(1-37/64")	(25/64")	(11/64")	(3/32")	(11/64")
793156-3	3	6	26	8	42	12	4.5	3	6
793173-3	3E	1/4	(1-1/32")	(5/16")	(1-21/32")	(15/32")	(11/64")	(1/8")	(15/64")

Double ball bearing round corner bit



mm								
Part No.		D	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	L <sub>1</sub>	L <sub>2</sub>	R
793073-7	3R	12	35	27	19	70	11	3.5
793093-1	3RE	1/2	(1-3/8")	(1-1/16")	(3/4")	(2-3/4")	(7/16")	(9/64")

**Makita Corporation**

Anjo, Aichi Japan

Made in Japan

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