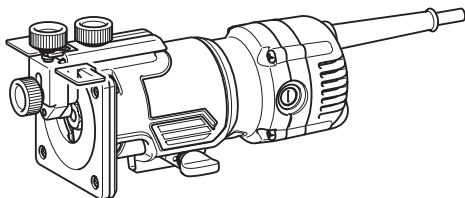


INSTRUCTION MANUAL



Trimmer

M3700



DOUBLE INSULATION



Read before use.

SPECIFICATIONS

Model:	M3700
Collet chuck capacity	6.35 mm (1/4") or 6.0 mm
No load speed	35,000 min ⁻¹
Overall length	199 mm
Net weight	1.4 kg
Safety class	□/II

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications may differ from country to country.
- Weight according to EPTA-Procedure 01/2003

Symbols

The following show the symbols used for the equipment. Be sure that you understand their meaning before use.



Read instruction manual.



DOUBLE INSULATION



Only for EU countries
Do not dispose of electric equipment together with household waste material! In observance of the European Directive, on Waste Electric and Electronic Equipment and its implementation in accordance with national law, electric equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

Intended use

The tool is intended for flush trimming and profiling of wood, plastic and similar materials.

Power supply

The tool should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply. They are double-insulated and can, therefore, also be used from sockets without earth wire.

Noise

The typical A-weighted noise level determined according to EN60745:

Sound pressure level (L_{pA}) : 83 dB(A)

Sound power level (L_{WA}) : 94 dB (A)

Uncertainty (K) : 3 dB(A)

⚠ WARNING: Wear ear protection.

Vibration

The vibration total value (tri-axial vector sum) determined according to EN60745:

Work mode: rotation without load

Vibration emission (a_{hv}) : 2.5 m/s² or less

Uncertainty (K) : 1.5 m/s²

NOTE: The declared vibration emission value has been measured in accordance with the standard test method and may be used for comparing one tool with another.

NOTE: The declared vibration emission value may also be used in a preliminary assessment of exposure.

⚠ WARNING: The vibration emission during actual use of the power tool can differ from the declared emission value depending on the ways in which the tool is used.

⚠ WARNING: Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

EC Declaration of Conformity

For European countries only

Makita declares that the following Machine(s):

Designation of Machine: Trimmer

Model No./ Type: M3700

Conforms to the following European Directives:

2006/42/EC

They are manufactured in accordance with the following standard or standardized documents: EN60745

The technical file in accordance with 2006/42/EC is available from:

Makita, Jan-Baptist Vinkstraat 2, 3070, Belgium

17.8.2015

Yasushi Fukaya

Director

Makita, Jan-Baptist Vinkstraat 2, 3070, Belgium

General power tool safety warnings

⚠ WARNING: Read all safety warnings and all instructions. 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 "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical Safety

1. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
2. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
3. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
4. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
5. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
6. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.
7. **Use of power supply via an RCD with a rated residual current of 30 mA or less is always recommended.**

Personal Safety

1. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
2. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
3. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

4. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
5. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
6. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
7. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

Power tool use and care

1. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
2. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
5. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

Service

1. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
2. **Follow instruction for lubricating and changing accessories.**
3. **Keep handles dry, clean and free from oil and grease.**

Trimmer safety warnings

1. Hold power tool by insulated gripping surfaces, because the cutter may contact its own cord. Cutting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.
2. Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by your hand or against the body leaves it unstable and may lead to loss of control.
3. Wear hearing protection during extended period of operation.
4. Handle the trimmer bits very carefully.
5. Check the trimmer bit carefully for cracks or damage before operation. Replace cracked or damaged bit immediately.
6. Avoid cutting nails. Inspect for and remove all nails from the workpiece before operation.
7. Hold the tool firmly.
8. Keep hands away from rotating parts.
9. Make sure the trimmer bit is not contacting the workpiece before the switch is turned on.
10. 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.
11. Be careful of the trimmer bit rotating direction and the feed direction.
12. Do not leave the tool running. Operate the tool only when hand-held.
13. Always switch off and wait for the trimmer bit to come to a complete stop before removing the tool from workpiece.
14. Do not touch the trimmer bit immediately after operation; it may be extremely hot and could burn your skin.
15. Do not smear the tool base carelessly with thinner, gasoline, oil or the like. They may cause cracks in the tool base.
16. Use trimmer bits of the correct shank diameter suitable for the speed of the tool.
17. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.
18. Always use the correct dust mask/respirator for the material and application you are working with.

SAVE THESE INSTRUCTIONS.

⚠ WARNING: DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

FUNCTIONAL DESCRIPTION

⚠ CAUTION: Always be sure that the tool is switched off and unplugged before adjusting or checking function on the tool.

Adjusting trimmer bit protrusion

To adjust the bit protrusion, loosen the clamping screw and move the tool base up or down as desired. After adjusting, tighten the clamping screw firmly to secure the tool base.

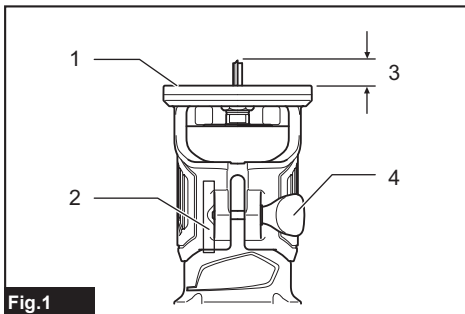


Fig.1

► 1. Base 2. Scale 3. Bit protrusion 4. Clamping screw

Switch action

⚠ CAUTION: Before plugging in the tool, always be sure that the tool is switched off.

To start the tool, move the switch lever to the I position. To stop the tool, move the switch lever to the O position.

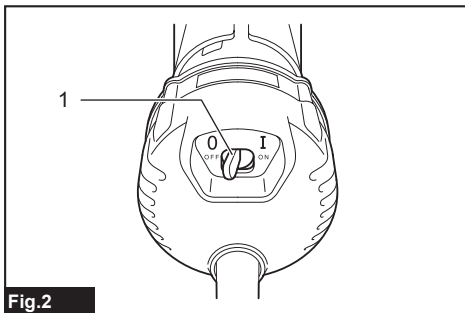


Fig.2

► 1. Switch lever

ASSEMBLY

⚠ CAUTION: Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

Installing or removing trimmer bit

⚠ CAUTION: Do not tighten the collet nut without inserting a trimmer bit, or the collet cone will break.

⚠ CAUTION: Use only the wrenches provided with the tool.

Insert the trimmer bit all the way into the collet cone and tighten the collet nut securely with the two wrenches. To remove the bit, follow the installation procedure in reverse.

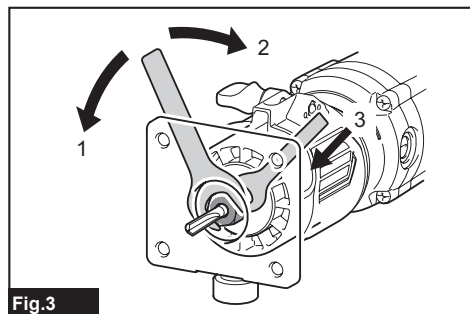


Fig.3

- 1. Loosen 2. Tighten 3. Hold

OPERATION

⚠ CAUTION: Always hold the tool firmly with one hand on housing. Do not touch the metal part.

⚠ 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 3 mm at a pass when cutting grooves. When you wish to cut grooves more than 3 mm deep, make several passes with progressively deeper bit settings.

1. Set the tool base on the workpiece to be cut without the trimmer bit making any contact.
2. Turn the tool on and wait until the trimmer bit attains full speed.
3. Move the tool forward over the workpiece surface, keeping the tool base flush and advancing smoothly until the cutting is complete.

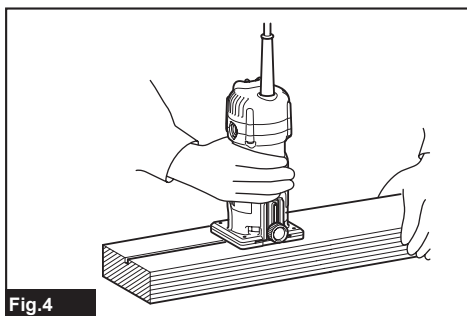


Fig.4

When doing edge cutting, the workpiece surface should be on the left side of the trimmer bit in the feed direction.

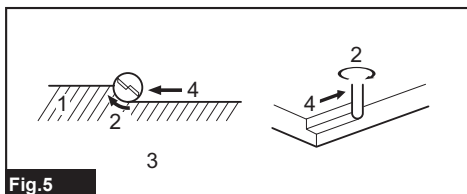


Fig.5

- 1. Workpiece 2. Bit revolving direction 3. View from the top of the tool 4. Feed direction

When using the straight guide or the trimmer guide, be sure to keep it on the right side in the feed direction. This will help to keep it flush with the side of the workpiece.

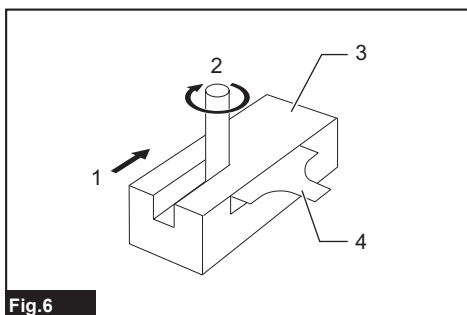


Fig.6

- 1. Feed direction 2. Bit revolving direction 3. Workpiece 4. Straight guide

NOTE: Moving the tool forward too fast may cause a poor quality of cut, or damage to the trimmer 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.

Templet guide

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

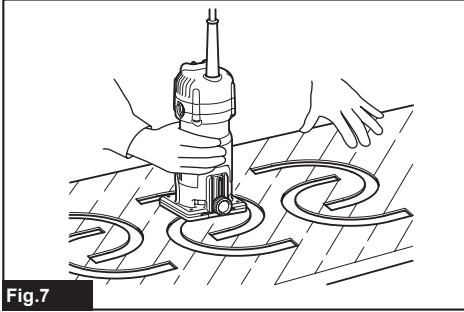


Fig.7

1. Loosen the clamping screw and then remove the guide holder and the chip deflector.

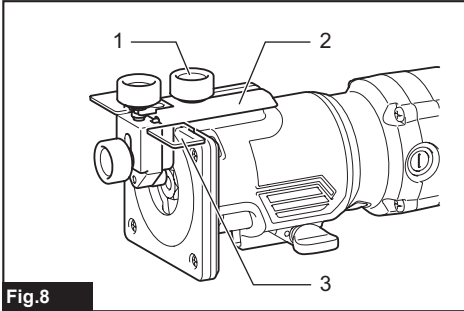


Fig.8

1. Clamping screw 2. Guide holder 3. Chip deflector

2. Loosen the screws and remove the base protector.

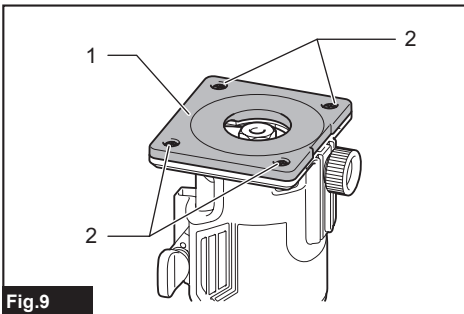


Fig.9

1. Base protector 2. Screws

3. Place the templet guide on the base and replace the base protector. Then secure the base protector by tightening the screws.

4. 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.

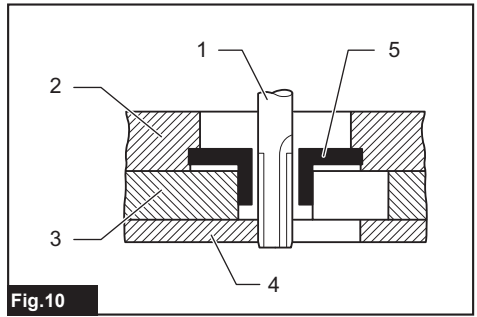


Fig.10

1. Trimmer bit 2. Base 3. Templet 4. Workpiece 5. Templet guide

NOTE: The workpiece will be cut a slightly different size from the templet. Allow for the distance (X) between the trimmer bit and the outside of the templet guide. The distance (X) can be calculated by using the following equation:

Distance (X) = (outside diameter of the templet guide - trimmer bit diameter) / 2

Straight guide

Optional accessory

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

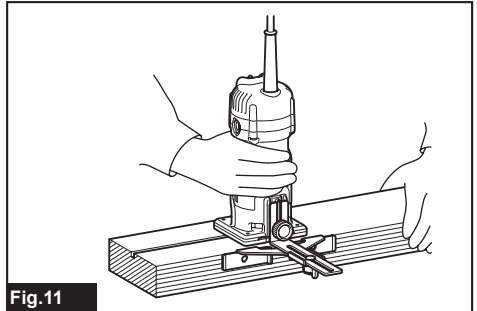


Fig.11

1. Attach the guide plate to the straight guide with the bolt and the wing nut.

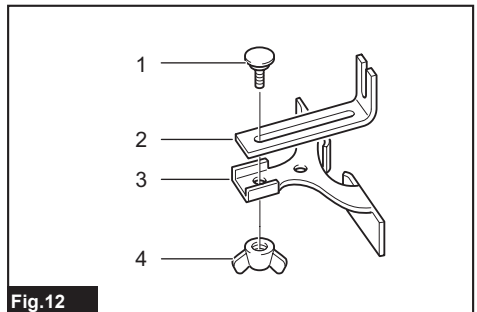


Fig.12

1. Bolt 2. Guide plate 3. Straight guide 4. Wing nut

2. Remove the guide holder and the chip deflector then attach the straight guide with the clamping screw.

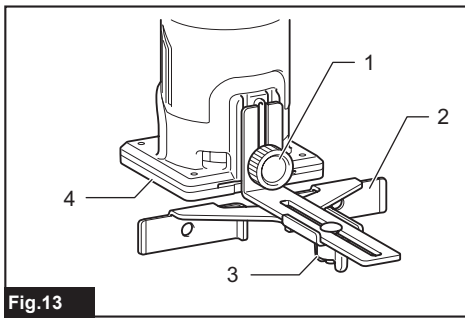


Fig.13

- 1. Clamping screw 2. Straight guide 3. Wing nut
4. Base

3. Loosen the wing nut on the straight guide and adjust the distance between the trimmer bit and the straight guide. At the desired distance, tighten the wing nut securely.

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

If the distance (A) between the side of the workpiece and the cutting position is too wide for the straight guide, or if the side of the workpiece is not straight, the straight guide cannot be used. In this case, firmly clamp a straight board to the workpiece and use it as a guide against the trimmer base. Feed the tool in the direction of the arrow.

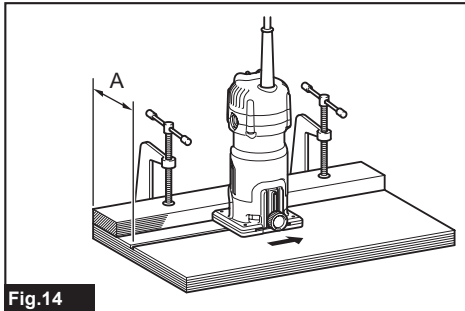


Fig.14

Circular work

Circular work may be accomplished if you assemble the straight guide and guide plate. Minimum and maximum radius of circles to be cut (distance between the center of circle and the center of trimmer bit) are as follows:

- Minimum : 70 mm
- Maximum : 221 mm

For cutting circles between 70 mm and 121 mm in radius

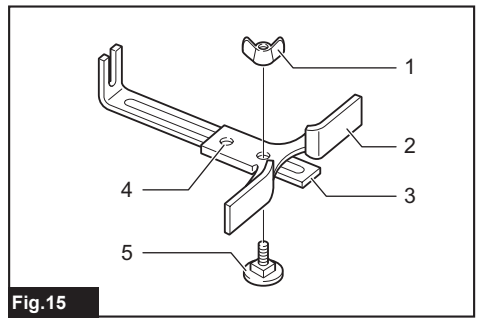


Fig.15

- 1. Wing nut 2. Straight guide 3. Guide plate
4. Center hole 5. Bolt

For cutting circles between 121 mm and 221 mm in radius

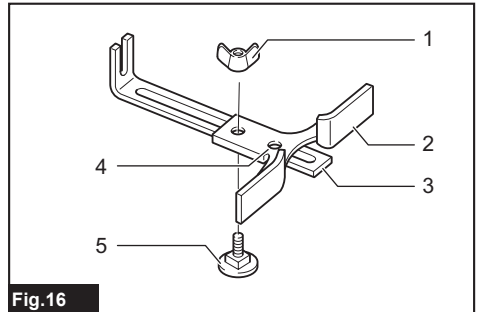


Fig.16

- 1. Wing nut 2. Straight guide 3. Guide plate
4. Center hole 5. Bolt

NOTE: Circles between 172 mm and 186 mm in radius cannot be cut using this guide.

1. Align the center hole in the straight guide with the center of the circle to be cut.
2. Drive a nail less than 6 mm in diameter into the center hole to secure the straight guide.
3. Pivot the tool around the nail in clockwise direction.

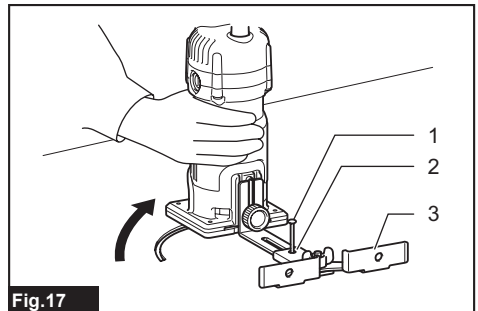


Fig.17

- 1. Nail 2. Center hole 3. Straight guide

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.

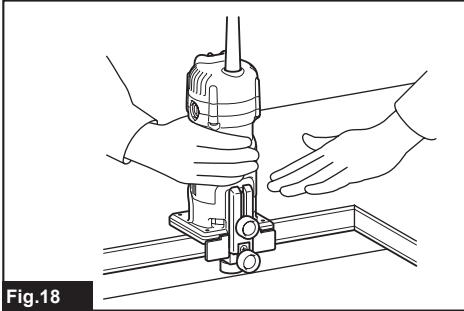


Fig.18

1. Attach the chip deflector on the groove of the base.
2. Install the trimmer guide and guide holder on the tool base with the clamping screw (A).
3. Loosen the clamping screw (B) and adjust the distance between the trimmer bit and the trimmer guide by turning the adjusting screw (1 mm per turn). At the desired distance, tighten the clamping screw (B) to secure the trimmer guide in place.

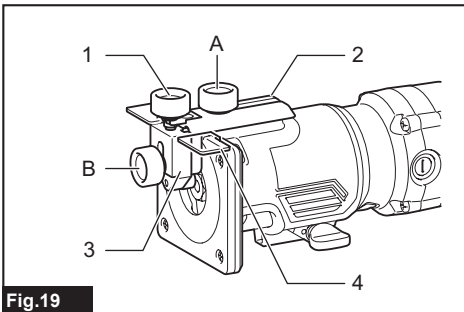


Fig.19

- 1. Adjusting screw 2. Guide holder 3. Trimmer guide 4. Chip deflector
4. When cutting, move the tool with the guide roller riding the side of the workpiece.

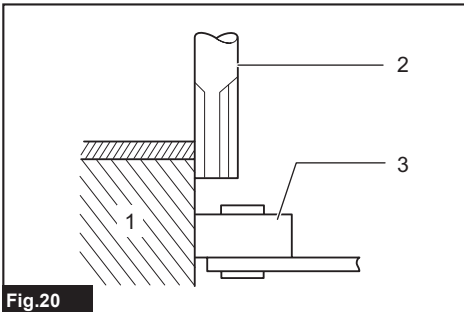


Fig.20

- 1. Workpiece 2. Trimmer bit 3. Guide roller

MAINTENANCE

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

NOTICE: Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

Replacing carbon brushes

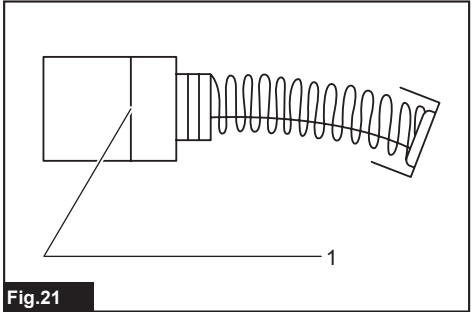


Fig.21

- 1. Limit mark

Check the carbon brushes regularly. Replace them 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.

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

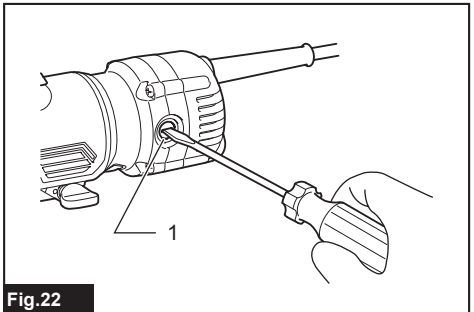


Fig.22

- 1. Brush holder cap

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

Unit:mm

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. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

NOTE: Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

Trimmer bits

Straight bit

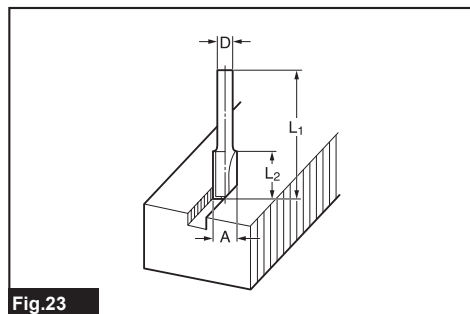


Fig.23

Unit:mm

D	A	L1	L2
6	20	50	15
1/4"			
6	8	50	18
1/4"			
6	6	50	18
1/4"			

U-grooving bit

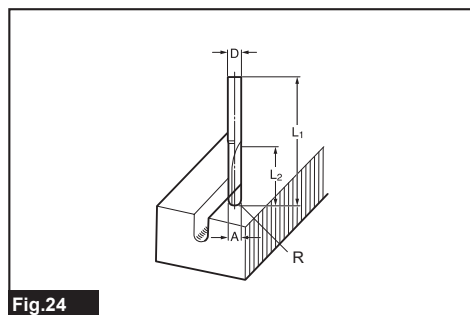


Fig.24

D	A	L1	L2	R
6	6	60	28	3
1/4"				

V-grooving bit

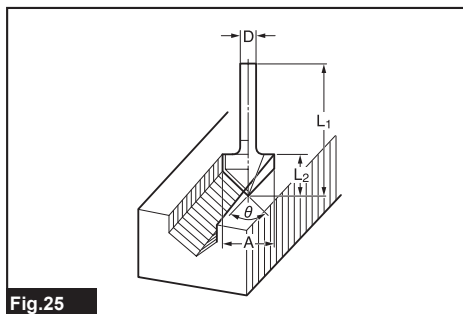


Fig.25

Unit:mm

D	A	L1	L2	theta
1/4"	20	50	15	90°

Drill point flush trimming bit

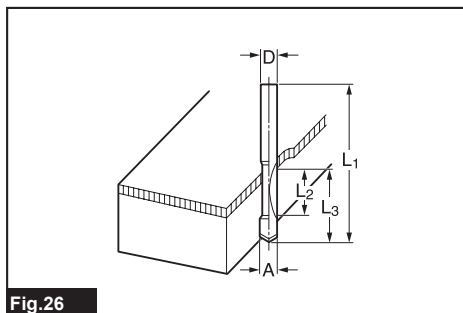


Fig.26

Unit:mm

D	A	L1	L2	L3
6	6	60	18	28
1/4"				

Drill point double flush trimming bit

Unit:mm

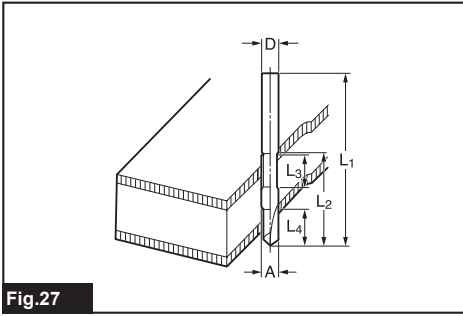


Fig.27

Unit:mm

D	A	L1	L2	L3	L4
6	6	70	40	12	14
1/4"					

Corner rounding bit

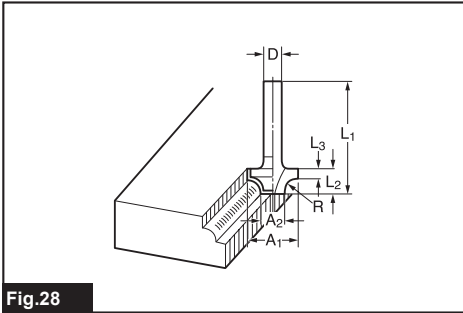


Fig.28

Unit:mm

D	A1	A2	L1	L2	L3	R
6	25	9	48	13	5	8
1/4"						
6	20	8	45	10	4	4
1/4"						

Chamfering bit

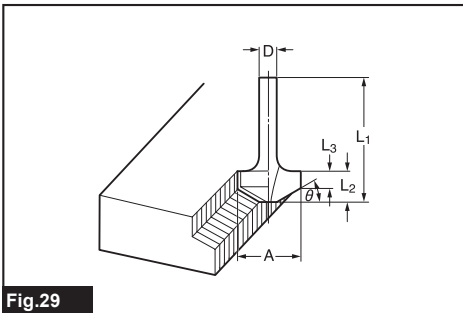


Fig.29

D	A	L1	L2	L3	θ
6	23	46	11	6	30°
6	20	50	13	5	45°
6	20	49	14	2	60°

Cove beading bit

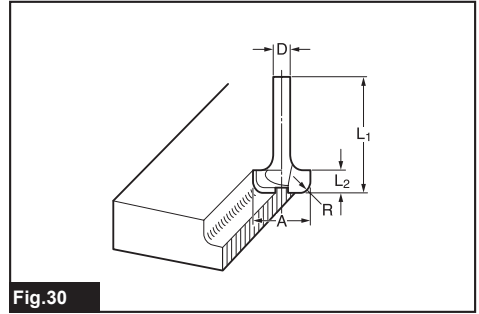


Fig.30

Unit:mm

D	A	L1	L2	R
6	20	43	8	4
6	25	48	13	8

Ball bearing flush trimming bit

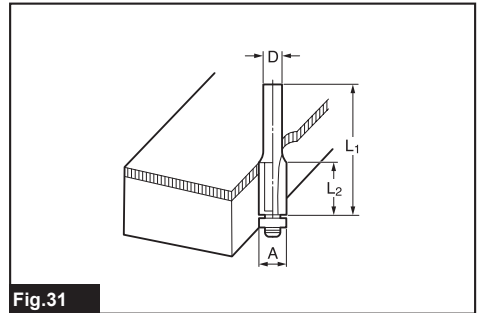


Fig.31

Unit:mm

D	A	L1	L2
6	10	50	20
1/4"			

Ball bearing corner rounding bit

Unit:mm

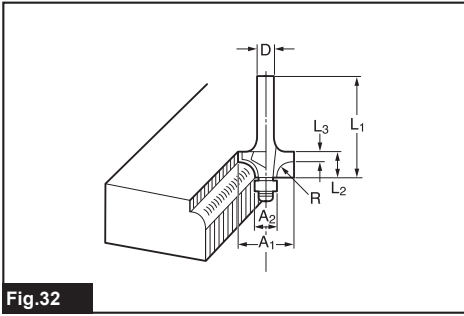


Fig.32

Unit:mm

D	A1	A2	L1	L2	L3	R
6	15	8	37	7	3.5	3
6	21	8	40	10	3.5	6
1/4"	21	8	40	10	3.5	6

Ball bearing chamfering bit

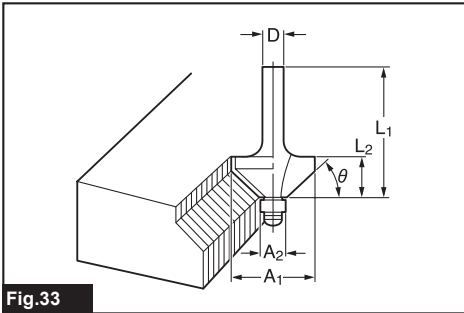


Fig.33

Unit:mm

D	A1	A2	L1	L2	θ
6	26	8	42	12	45°
1/4"					
6	20	8	41	11	60°

Ball bearing beading bit

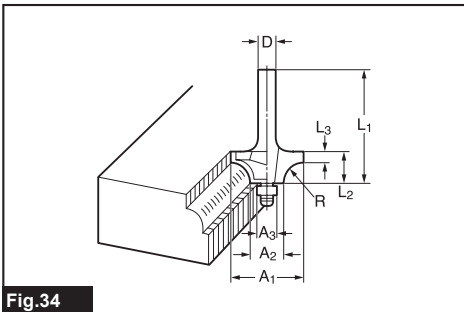


Fig.34

D	A1	A2	A3	L1	L2	L3	R
6	20	12	8	40	10	5.5	4
6	26	12	8	42	12	4.5	7

Ball bearing cove beading bit

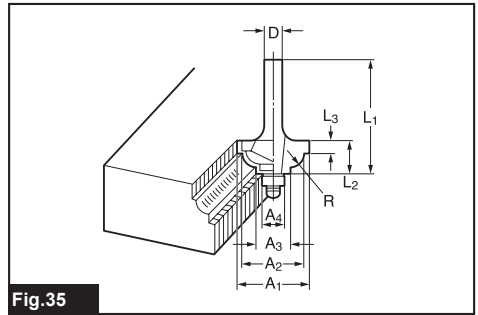


Fig.35

Unit:mm

D	A1	A2	A3	A4	L1	L2	L3	R
6	20	18	12	8	40	10	5.5	3
6	26	22	12	8	42	12	5	5

Ball bearing roman ogee bit

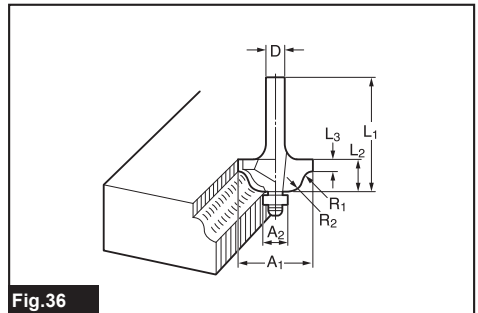


Fig.36

Unit:mm

D	A1	A2	L1	L2	L3	R1	R2
6	20	8	40	10	4.5	2.5	4.5
6	26	8	42	12	4.5	3	6

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