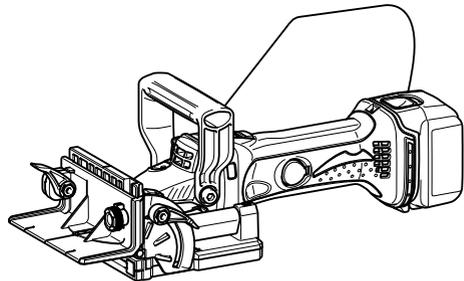




INSTRUCTION MANUAL

# Cordless Plate Joiner

DPJ140  
DPJ180



012495

**IMPORTANT:** Read Before Using.

## ENGLISH (Original instructions)

# SPECIFICATIONS

Model	DPJ140	DPJ180
Type of blade	Plate joiner	
Max. grooving depth	20 mm	
No load speed (min <sup>-1</sup> )	6,500	
Overall length	351 mm	
Net weight	3.0 kg	
Rated voltage	D.C.14.4 V	D.C.18 V

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

END004-6

## Symbols

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



- Read instruction manual.



Cd  
Ni-MH  
Li-ion

- Only for EU countries  
Do not dispose of electric equipment or battery pack together with household waste material!

In observance of the European Directives, on Waste Electric and Electronic Equipment and Batteries and Accumulators and Waste Batteries and Accumulators and their implementation in accordance with national laws, electric equipment and batteries and battery pack(s) that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

ENE013-1

## Intended use

The tool is intended for cutting crescent shaped slots for the placement of flat wooden dowels or biscuit by a plunging action.

ENG905-1

## Noise

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

### Model DPJ140

Sound pressure level ( $L_{pA}$ ) : 73 dB (A)

Uncertainty (K) : 3 dB (A)

The noise level under working may exceed 80 dB (A).

### Model DPJ180

Sound pressure level ( $L_{pA}$ ) : 74 dB (A)

Uncertainty (K) : 3 dB (A)

The noise level under working may exceed 80 dB (A).

## Wear ear protection

ENG900-1

## Vibration

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

Work mode : cutting grooves in MDF  
Vibration emission ( $a_h$ ) : 2.5 m/s<sup>2</sup> or less  
Uncertainty (K) : 1.5 m/s<sup>2</sup>

ENG901-1

- 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.
- 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.
- 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).

**For European countries only****EC Declaration of Conformity**

**We Makita Corporation as the responsible manufacturer declare that the following Makita machine(s):**

Designation of Machine:

Cordless Plate Joiner

Model No./ Type: DPJ140, DPJ180

are of series production and

**Conforms to the following European Directives:**

2006/42/EC

And are manufactured in accordance with the following standards or standardised documents:

EN60745

The technical documentation is kept by:

Makita International Europe Ltd.

Technical Department,

Michigan Drive, Tongwell,

Milton Keynes, Bucks MK15 8JD, England

11.7.2011



Tomoyasu Kato  
Director

Makita Corporation

3-11-8, Sumiyoshi-cho,

Anjo, Aichi, 446-8502, JAPAN

000230

GEA006-2

**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**

4. **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.
5. **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.
6. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
7. **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.
8. **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.
9. **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of an GFCI reduces the risk of electric shock.

**Personal safety**

10. **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.
11. **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.
12. **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.
13. **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.
14. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
15. **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.

16. **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**

17. **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.
18. **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.
19. **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.
20. **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.
21. **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.
22. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
23. **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.

#### **Battery tool use and care**

24. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
25. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
26. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.

27. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

#### **Service**

28. **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.
29. **Follow instruction for lubricating and changing accessories.**
30. **Keep handles dry, clean and free from oil and grease.**

GEB093-1

## **CORDLESS PLATE JOINER SAFETY WARNINGS**

1. **Blades must be rated for at least the speed marked on the tool.** Blades running over rated speed can fly apart and cause injury.
2. **Always use the guard.** The guard protects the operator from broken blade fragments and unintentional contact with the blade.
3. **Use only the blades specified for this tool.**
4. **Never operate the tool with the blade locked in exposed position or without the blade cover secured properly in place.**
5. **Make sure that the blade slides smoothly before operation.**
6. **Check the blades carefully for cracks or damage before operation. Replace cracked or damaged blades immediately.**
7. **Make sure that the flange fits in the arbor hole when installing the blade.**
8. **Inspect for and remove all nails or foreign matter from the workpieces before operation.**
9. **Always place the workpieces on a stable workbench.**
10. **Secure the workpieces firmly with clamp or vise.**
11. **NEVER wear gloves during operation.**
12. **Hold the tool firmly with both hands.**
13. **Keep your hands and body away from the grooving area.**
14. **Run the tool for a while without the blade pointing toward anybody. Watch for vibration or wobbling that could indicate poor installation or a poorly balanced blade.**
15. **Never reach your hands underneath the workpieces while the blade is rotating.**
16. **Do not leave the tool running unattended.**

17. Always be sure that the tool is switched off and the battery cartridge is removed before making any adjustments or replacing the blade.
18. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.
19. Do not use blunt or damaged blades.
20. Do not use the tool with damaged guards.

## 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.

ENC007-8

## IMPORTANT SAFETY INSTRUCTIONS

### FOR BATTERY CARTRIDGE

1. Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
2. Do not disassemble battery cartridge.
3. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
4. If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.
5. Do not short the battery cartridge:
  - (1) Do not touch the terminals with any conductive material.
  - (2) Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
  - (3) Do not expose battery cartridge to water or rain.
6. Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50 ° C (122 ° F).
7. Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.
8. Be careful not to drop or strike battery.
9. Do not use a damaged battery.
10. Follow your local regulations relating to disposal of battery.

## SAVE THESE INSTRUCTIONS.

### Tips for maintaining maximum battery life

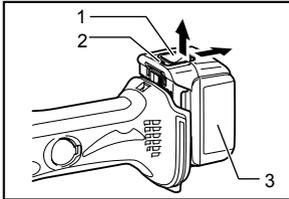
1. Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.
2. Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
3. Charge the battery cartridge with room temperature at 10 ° C - 40 ° C (50 ° F - 104 ° F). Let a hot battery cartridge cool down before charging it.
4. Charge the battery cartridge once in every six months if you do not use it for a long period of time.

## FUNCTIONAL DESCRIPTION

### ⚠ CAUTION:

- Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking function on the tool.

### Installing or removing battery cartridge



012510

1. Button
2. Red indicator
3. Battery cartridge

### ⚠ CAUTION:

- Always switch off the tool before installing or removing of the battery cartridge.
- **Hold the tool and the battery cartridge firmly when installing or removing battery cartridge.** Failure to hold the tool and the battery cartridge firmly may cause them to slip off your hands and result in damage to the tool and battery cartridge and a personal injury.

To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge.

To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click. If you can see the red indicator on the upper side of the button, it is not locked completely.

### ⚠ CAUTION:

- Always install the battery cartridge fully until the red indicator cannot be seen. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.
- Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.

### Battery protection system

The tool is equipped with a battery protection system. This system automatically cuts off power to the motor to extend battery life.

The tool will automatically stop during operation if the tool and/or battery are placed under one of the following conditions:

- **Overloaded:**
  - The tool is operated in a manner that causes it to draw an abnormally high current.
  - In this situation, turn the tool off and stop the application that caused the tool to become

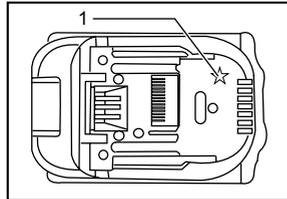
overloaded. Then turn the tool on to restart. If the tool does not start, the battery is overheated. In this situation, let the battery cool before turning the tool on again.

- **Low battery voltage:**

The remaining battery capacity is too low and the tool will not operate. In this situation, remove and recharge the battery.

### NOTE:

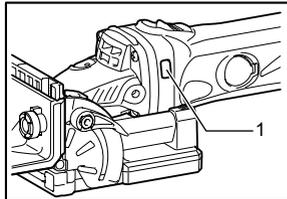
The overheat protection works only with a battery cartridge with a star mark.



1. Star marking

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### Indication lamp with multi function



1. Indication lamp

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Indication lamps are located in two positions.

When the battery cartridge is inserted on the tool with the slide switch positioned in the "O (OFF)" position, the indication lamp flickers quickly for approximately one second. If it does not flicker so, the battery cartridge or indication lamp has broken.

#### - **Overload protection**

- When the tool is overloaded, the indication lamp lights up. When the load on the tool is reduced, the lamp goes out.
- If the tool continues to be overloaded and the indication lamp continues to light up for approximately two seconds, the tool stops. This prevents the motor and its related parts from being damaged.
- In this case, to start the tool again, move the slide switch to the "O (OFF)" position once and then to the "I (ON)" position.

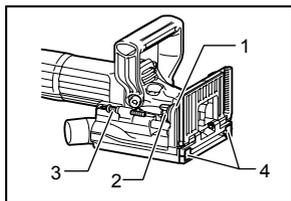
#### - **Battery cartridge replacing signal**

- When the remaining battery capacity gets small, the indicator lamp lights up during operation earlier than enough capacity battery use.

**- Accidental re-start preventive function**

- Even if the battery cartridge is inserted on the tool with the slide switch in the "I (ON)" position, the tool does not start. At this time, the lamp flickers slowly and this shows that the accidental re-start preventive function is at work.
- To start the tool, first slide the slide switch toward the "O (OFF)" position and then slide it toward the "I (ON)" position.

**Adjusting the depth of groove**



1. Pointer
2. Stopper
3. Adjusting screw
4. Rubber spike

012682

6 grooving depths can be preset according to the size of biscuit to be used.

Refer to the table below for the correspondence between the sizes marked on the stopper and the biscuit size. Fine adjustments to the grooving depth can be made by turning the adjusting screw after loosening the hex nut. This may become necessary after the blade has been resharpened a few times.

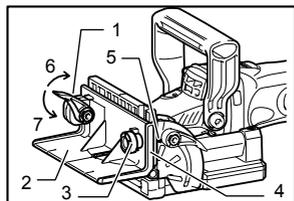
Size on stopper	0	10	20	S	D	MAX
Biscuit size	0	10	20	—	—	—
Depth of groove	8 mm	10 mm	12.3mm	13 mm	14.7mm	20 mm*

\* With the rubber spikes removed.

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**Angle guide**

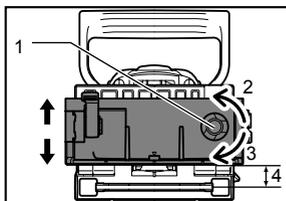
The angle guide height can be moved up and down to adjust the position of the blade in relation to the top of the workpiece.



1. Lock lever
2. Angle guide
3. Knob
4. Scale
5. Pointer
6. Tighten
7. Loosen

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To adjust the angle guide height, loosen the lock lever down and rotate the knob until the pointer points to the desired scale graduation marked on the angle guide.



1. Knob
2. Down
3. Up
4. Center of blade thickness

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Then tighten the lock lever up to secure the angle guide.

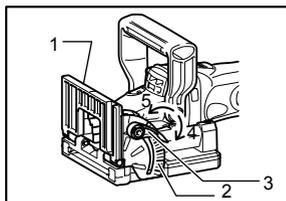
The scale on the angle guide indicates the distance from the top of the workpiece to the center of the blade thickness.

The angle guide is removable from the fence according to the need of your work. To remove the angle guide, loosen the lock lever and turn the knob clockwise until it comes out of the upper end of the fence.

**Fence**

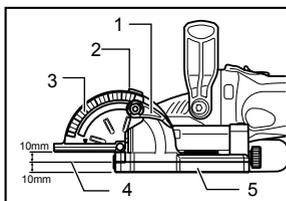
**NOTE:**

- Remove the angle guide according to the need of your work when using the tool with the angle of the fence adjusted to other than 0°. When you need to use the angle guide under the above condition, be sure to adjust the depth of groove to get a proper depth.



1. Fence
2. Angle scale
3. Lock lever
4. Tighten
5. Loosen

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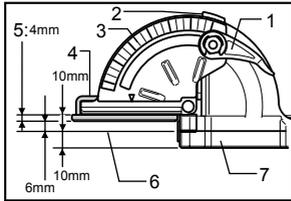
1. Lock lever
2. Pointer
3. Angle scale
4. Center of blade thickness
5. Blade cover

012500

The angle of the fence can be adjusted between 0° and 90° (positive stops at 0°, 45° and 90°). To adjust the angle, loosen the lock lever and tilt the fence until the pointer points to the desired graduation on the angle scale. Then tighten the lock lever to secure the fence.

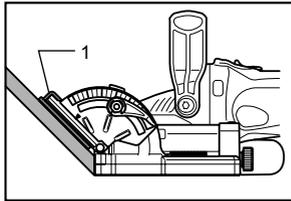
When the fence is set at 90°, both the distance from the center of the blade thickness to the fence and the distance from the center of the blade thickness to the bottom of the blade cover are 10 mm.

## Set plate



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1. Lock lever
2. Pointer
3. Angle scale
4. Set plate
5. Thickness of set plate
6. Center of blade thickness
7. Blade cover

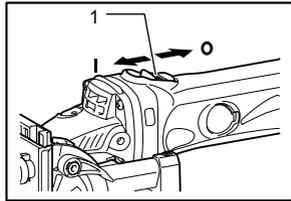


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1. Set plate

Use the set plate as shown in the figures when cutting thin workpieces.

## Switch action



012512

1. Slide switch

### ⚠ CAUTION:

- Before installing the battery cartridge into the tool, always check to see that the slide switch actuates properly and returns to the "OFF" position when the rear of the slide switch is depressed.
- Switch can be locked in "ON" position for ease of operator comfort during extended use. Apply caution when locking tool in "ON" position and maintain firm grasp on tool.

To start the tool, slide the slide switch toward the "I (ON)" position. For continuous operation, press the front of the slide switch to lock it.

To stop the tool, press the rear of the slide switch, then slide it toward the "O (OFF)" position.

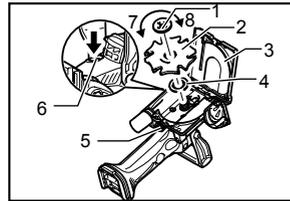
## ASSEMBLY

### ⚠ CAUTION:

- Always be sure that the tool is switched off and the battery cartridge is removed before carrying out

any work on the tool.

## Removing or installing the blade



012502

1. Lock nut
2. Plate joiner blade
3. Blade cover
4. Inner flange
5. Clamp screw
6. Shaft lock
7. Loosen
8. Tighten

### ⚠ CAUTION:

- When installing the plate joiner blade, mount the inner flange with the side marked "22" facing toward you.

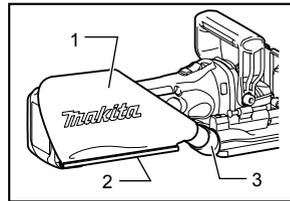
To remove the blade, loosen the clamp screw and open the blade cover. Push the shaft lock and loosen the lock nut using the lock nut wrench. To install the blade, first mount the inner flange.

Then mount the blade and the lock nut. Securely tighten the lock nut using the lock nut wrench. Close the blade cover and tighten the clamp screw to secure the blade cover.

### ⚠ CAUTION:

- Use only Makita lock nut wrench provided to remove or install the blade.
- Always check the depth of groove after replacing the blade. Readjust it if necessary.

## Dust bag



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1. Dust bag
2. Fastener
3. Dust nozzle

To attach the dust bag, fit it onto the dust nozzle. If the dust bag becomes an obstacle to your work, turn the dust nozzle to change the dust bag position.

When the dust bag is about half full, switch off and remove the battery cartridge. Remove the dust bag from the tool and pull the bag's fastener out. Empty the dust bag by tapping it lightly to remove as much of the dust as possible.

### NOTE:

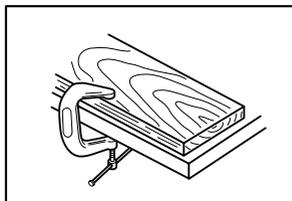
- If you connect a Makita vacuum cleaner to your plate joiner, more efficient and cleaner operations can be performed.

# OPERATION

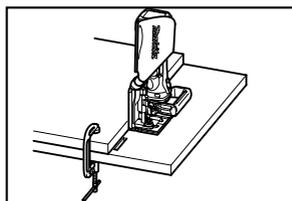
## How to make joints

### ⚠️WARNING:

- Always clamp the workpiece to the workbench before each operation.



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### Corner Joint (Fig. A)

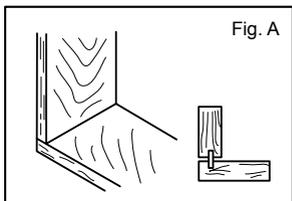
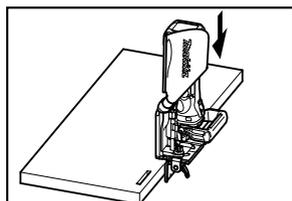
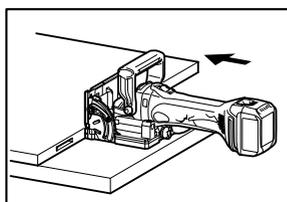


Fig. A

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### T-Butt Joint (Fig. B)

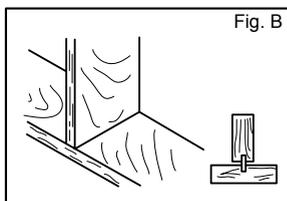
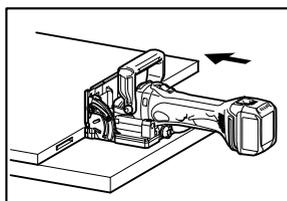
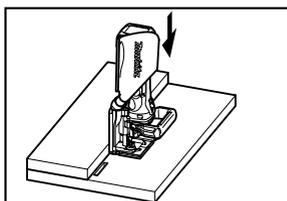


Fig. B

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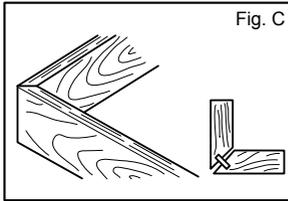


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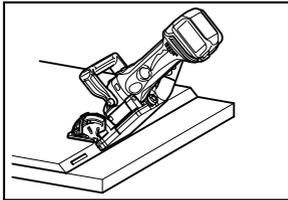


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### Miter Joint (Fig. C)

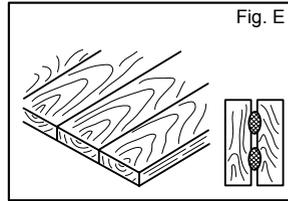


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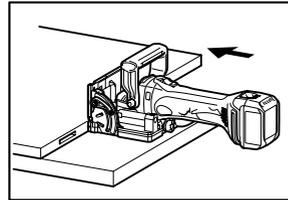


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### Edge-To-Edge Joint (Fig. E)

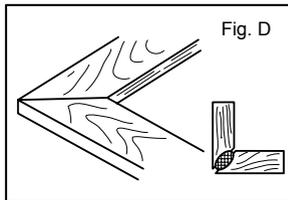


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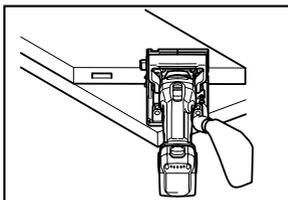


012506

### Frame Joint (Fig. D)



004587



012509

To make joints, proceed as follows:

1. Fit the two workpieces together as they will appear in the finished joint position.
2. Mark the center of the intended biscuit grooves on the workpiece using a pencil.

#### NOTE:

- The center of grooves should be at least 50 mm from the outer edge of the workpieces.
- Allow 100 mm - 150 mm between grooves in multiple biscuit application.

#### 3. For Corner Joint and T-Butt Joint only

Clamp the vertical workpiece to the workbench.

#### For Miter Joint only

Clamp one workpiece to the workbench with the mitered edge facing up.

#### For Frame Joint and Edge-To-Edge Joint only

Clamp one workpiece to the workbench.

4. Set the depth of groove according to the size of biscuit to be used. Refer to the table in the "Adjusting the depth of groove" section.
5. Adjust the angle guide height so that the blade is centered in the board thickness.
6. Align the center mark on the base with the pencil line on the workpiece.
7. Switch on the tool and gently push it forward to extend the blade into the workpiece.

8. Gently return the tool to the original position after the adjusting screw reaches the stopper.

9. **For Corner Joint and T-Butt Joint only**  
Clamp the horizontal workpiece to the workbench.

**For Miter Joint only**

Clamp the other workpiece to the workbench with the mitered edge facing up.

**For Frame Joint and Edge-To-Edge Joint only**

Clamp the other workpiece to the workbench.

10. **For Corner Joint only**  
Place the tool on the workpiece so that the blade is facing down.

**For T-Butt Joint only**

Remove the angle guide from the tool. Place the tool on the workpiece so that the blade is facing down.

11. Repeat the steps 6 - 8 to groove in the horizontal or the other workpiece.

If you do not need to center the blade in the board thickness, proceed as follows:

**For Corner Joint, Miter Joint, Frame Joint and Edge-To-Edge Joint only**

- Remove the angle guide from the tool. Set the fence at 90° for Corner Joint, Frame Joint and Edge-To-Edge Joint or at 45° for Miter Joint.
- Follow steps 1 - 11 excluding steps 5 and 10 described above.

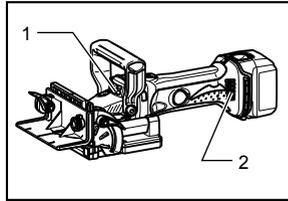
**For T-Butt Joint only**

- Fit the two workpieces together as they will appear in the finished joint position.
- Lay the vertical workpiece on the horizontal one. Clamp both workpieces to the workbench.
- Remove the angle guide from the tool.
- Follow the steps 2, 4, 6, 7, 8 and 11 described above.

## MAINTENANCE

**⚠ CAUTION:**

- Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.
- Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

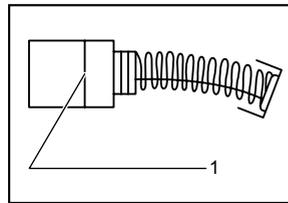


1. Exhaust vent
2. Inhalation vent

012518

The tool and its air vents have to be kept clean. Regularly clean the tool's air vents or whenever the vents start to become obstructed.

### Replacing carbon brushes

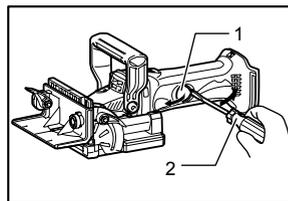


1. Limit mark

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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.

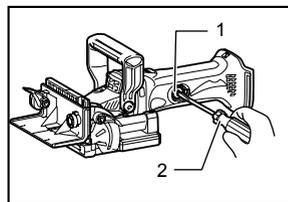
Insert the top end of slotted bit screwdriver into the notch in the tool and remove the holder cap cover by lifting it up.



1. Holder cap cover
2. Screwdriver

012514

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.



1. Brush holder cap
2. Screwdriver

012515

Reinstall the holder cap cover on the tool.

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

## OPTIONAL ACCESSORIES

### 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.

- Angle guide
- Dust bag
- Set plate
- Lock nut wrench
- Plate joiner blades
- Makita genuine battery and charger

### NOTE:

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







**Makita Corporation**  
Anjo, Aichi, Japan

885297-226

[www.makita.com](http://www.makita.com)