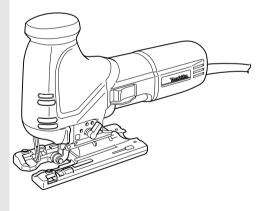


# **Jig Saw**

## Variable Speed MODEL 4341FCT





## INSTRUCTION MANUAL

#### **WARNING:**

For your personal safety, READ and UNDERSTAND before using. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

www.makitatools.com

# **SPECIFICATIONS**

Мос	lel	4341FCT
Length of	fstroke	26 mm (1")
Cutting consolition	Wood	135 mm (5-5/16")
Cutting capacities	Steel	10 mm (3/8")
Strokes pe	er minute	800 - 2,800/min.
Overall	length	271 mm (10-11/16")
Net we	eight	2.4 kg (5.3 lbs)

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

# **GENERAL SAFETY RULES**

USA002-2

(For All Tools)

#### **∆** WARNING:

**Read and understand all instructions.** Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

# SAVE THESE INSTRUCTIONS

#### Work Area

- 1. Keep your work area clean and well lit. Cluttered benches and 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 bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

#### **Electrical Safety**

4. Double insulated tools are equipped with 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 a polarized outlet. Do not change the plug in any way. Double insulation I eliminates the need for the three wire grounded power cord and grounded power supply system.

- Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
- 6. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
- When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.

#### **Personal Safety**

- 9. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- 10. Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- 11. Avoid accidental starting. Be sure switch is off before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
- 12. Remove adjusting keys or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

- 13. Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.
- 14. Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions. Ordinary eye or sun glasses are NOT eye protection.

#### **Tool Use and Care**

- 15. Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.
- 16. Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- 17. Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- 18. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- 19. Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- 20. Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
- 21. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

22. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool, may become hazardous when used on another tool.

#### SERVICE

23. Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.

24. When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of electric shock or injury.

**USE PROPER EXTENSION CORD:** 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 gage. The smaller the gage number, the heavier the cord.

Ampere Rating		Volts	Total length of cord in feet					
Anipere	riating	120 V	25 ft.	50 ft.	100 ft.	150 ft.		
More Than	Not More Than			AWG				
0	6		18	16	16	14		
6	10		18	16	14	12		
10	12	1	16	16	14	12		
12	16		14	12	Not Reco	mmended		

#### Table 1: Minimum gage for cord

# SPECIFIC SAFETY RULES

USB065-1

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to jig saw safety rules. If you use this tool unsafely or incorrectly, you can suffer serious personal injury.

- Hold tool by insulated gripping surfaces when performing an operation where the cutting tools may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
- 2. Always use safety glasses or goggles. Ordinary eye or sun glasses are NOT safety glasses.
- 3. Avoid cutting nails. Inspect workpiece for any nails and remove them before operation.
- 4. Do not cut hollow pipe.

- 5. Do not cut oversize workpiece.
- Check for the proper clearance beyond the workpiece before cutting so that the blade will not strike the floor, workbench, etc.
- 7. Hold the tool firmly.
- 8. Make sure the blade is not contacting the workpiece before the switch is turned on.
- 9. Keep hands away from moving parts.
- 10. Do not leave the tool running. Operate the tool only when hand-held.

- 11. Always switch off and wait for the blade to come to a complete stop before removing the blade from the workpiece.
- 12. Do not touch the blade or the workpiece immediately after operation; they may be extremely hot and could burn your skin.
- Some material contains chemicals which may be toxic. Take caution to prevent working dust inhalation and skin contact. Follow material supplier safety data.

# SAVE THESE INSTRUCTIONS

#### **☆ WARNING:**

MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

# SYMBOLS

USD201-2

The followings show the symbols used for tool.

V ..... volts

A ..... amperes

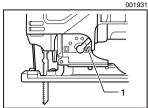
- Hz ..... hertz
- $\sim$  .....alternating current

**n**₀ .....no load speed

.....Class II Construction

.../min.....revolutions or reciprocation per minute

# FUNCTIONAL DESCRIPTION



#### **△** CAUTION:

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

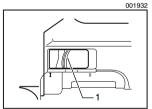
#### Selecting the cutting action

This tool can be operated with an orbital or a straight line (up and down) cutting action. The orbital cutting action thrusts the blade forward on the cutting stroke and greatly increases cutting speed.

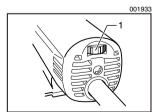
To change the cutting action, just turn the cutting action changing lever to the desired cutting action position. Refer to the table below to select the cutting action.

1. Cutting action changing lever

Position	Cutting action	Applications
0 0+	Straight line cutting action	For cutting mild steel, stainless steel and plastics.
0	Straight line cutting action	For clean cuts in wood and plywood.
I	Small orbit cutting action	For cutting mild steel, aluminum and hard wood.
II Medium orbit outting optio	Madium orbit outting action	For cutting wood and plywood.
П	Medium orbit cutting action	For fast cutting in aluminum and mild steel.
Ш	Large orbit cutting action	For fast cutting in wood and plywood.



1. Switch lever



1. Speed adjusting dial

#### Switch action

#### ▲ CAUTION:

• Before plugging in the tool, always be sure that the tool is switched off.

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

#### Speed adjusting dial

The tool speed can be infinitely adjusted between 800 and 2,800 strokes per minute by turning the adjusting dial. Higher speed is obtained when the dial is turned in the direction of number 5; lower speed is obtained when it is turned in the direction of number 1.

Refer to the table to select the proper speed for the workpiece to be cut. However, the appropriate speed may differ with the type or thickness of the workpiece. In general, higher speeds will allow you to cut workpieces faster but the service life of the blade will be reduced.

Workpiece to be cut	Number on adjusting dial
Wood	4 - 5
Mild steel	3 - 5
Stainless steel	3 - 4
Aluminum	3 - 5
Plastics	1 - 4

#### ▲ CAUTION:

• The speed adjusting dial can be turned only as far as 5 and back to 1. Do not force it past 5 or 1, or the speed adjusting function may no longer work.

The tools equipped with electronic function are easy to operate because of the following features.

#### **Constant speed control**

Electronic speed control for obtaining constant speed. Possible to get fine finish, because the rotating speed is kept constant even under load condition.

#### Soft start feature

Safety and soft start because of suppressed starting shock.

#### Lighting up the lamps

#### **△** CAUTION:

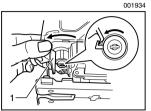
• Do not look in the light or see the source of light directly.

To turn on the lamp, pull the trigger. Release the trigger to turn it off.

#### NOTE:

• Use a dry cloth to wipe the dirt off the lens of lamp. Be careful not to scratch the lens of lamp, or it may lower the illumination.

## ASSEMBLY



1. Tool opener

#### ▲ CAUTION:

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

#### Installing or removing saw blade

#### ▲ CAUTION:

- Always clean out all chips or foreign matter adhering to the blade and/or blade holder. Failure to do so may cause insufficient tightening of the blade, resulting in a serious injury.
- Do not touch the blade or the workpiece immediately after operation; they may be extremely hot and could burn your skin.
- Tighten the saw blade securely. Failure to do so may cause a serious injury.
- When you remove the saw blade, be careful not to hurt your fingers with the top of the blade or the tips of workpiece.

To install the blade, open the tool opener to the position shown in the figure.

Keeping that situation, insert the saw blade into the blade clamp as far as the two protrusions of the blade can not be seen.

Return the tool opener to its original position.

After installing, always make sure that the blade is securely held in place by trying to pull it out.

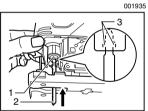
#### **△** CAUTION:

 Do not open the tool opener excessively, or it may cause tool damage.

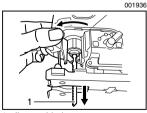
To remove the blade, open the tool opener to the position shown in the figure. Pull the saw blade out toward the base.

#### NOTE:

· Occasionally lubricate the roller.



- 1. Blade clamp
- 2. Jig saw blade
- 3. Protrusions

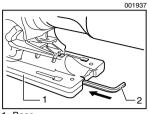


1. Jig saw blade

8

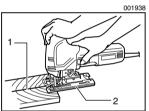
#### Hex wrench storage

When not in use, the hex wrench can be conveniently stored.



Base
 Hex wrench

# **OPERATION**



#### **△** CAUTION:

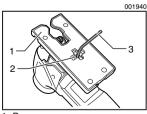
• Always hold the tool base flush with the workpiece. Failure to do so may cause blade breakage, resulting in a serious injury.

Turn the tool on and wait until the blade attains full speed. Then rest the tool base flat on the workpiece and gently move the tool forward along the previously marked cutting line. When cutting curves, advance the tool very slowly.

1. Cutting line

2. Base





1. Base

2. Bolt

3. Hex wrench

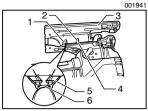
#### **Bevel cutting**

#### **△** CAUTION:

• Always be sure that the tool is switched off and unplugged before tilting the tool base.

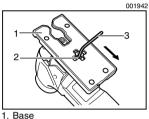
With the tool base tilted, you can make bevel cuts at any angle between  $0^{\circ}$  and  $45^{\circ}$  (left or right).

Loosen the bolt on the back of the base with the hex wrench. Move the base so that the bolt is positioned in the center of the bevel slot in the base.



Tilt the base until the desired bevel angle is obtained. The Vnotch of the gear housing indicates the bevel angle by graduations. Then tighten the bolt firmly to secure the base.

- 1. Graduations
- 2. Bevel slot
- 3. Base
- 4. Bolt
- 5. Gear housing
- 6. V-notch

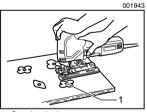


#### Front flush cuts

Loosen the bolt on the back of the tool base with the hex wrench, then move the tool base all the way back. Then tighten the bolt to secure the tool base.

2. Bolt

3. Hex wrench



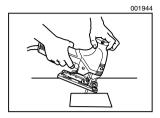
#### 1. Starting hole

# Cutouts

Cutouts can be made with either of two methods A or B.

#### A) Boring a starting hole:

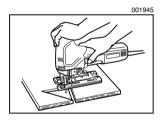
For internal cutouts without a lead-in cut from an edge, pre-drill a starting hole 12 mm (1/2") or more in diameter. Insert the blade into this hole to start your cut.



#### B) Plunge cutting:

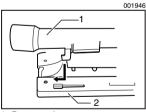
You need not bore a starting hole or make a lead-in cut if you carefully do as follows.

- Tilt the tool up on the front edge of the base, with the blade point positioned just above the workpiece surface.
- (2) Apply pressure to the tool so that the front edge of the base will not move when you switch on the tool and gently lower the back end of the tool slowly.
- (3) As the blade pierces the workpiece, slowly lower the base of the tool down onto the workpiece surface.
- (4) Complete the cut in the normal manner.



#### Finishing edges

To trim edges or make dimensional adjustments, run the blade lightly along the cut edges.



#### 1. Dust nozzle

#### 2. Base

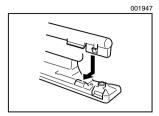
# Metal cutting

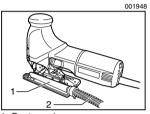
Always use a suitable coolant (cutting oil) when cutting metal. Failure to do so will cause significant blade wear. The underside of the workpiece can be greased instead of using a coolant.

#### **Dust extraction**

The dust nozzle (optional accessory) is recommended to perform clean cutting operations.

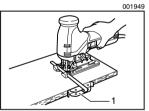
To attach the dust nozzle on the tool, insert the hook of dust nozzle into the hole in the base.



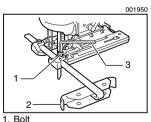


1. Dust nozzle

2. Hose for vacuum cleaner







#### 2. Fence guide

3. Hex wrench

The dust nozzle can be installed on either left or right side of the base.

Then connect a Makita vacuum cleaner to the dust nozzle.

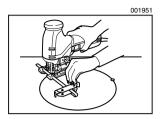
#### Rip fence set (optional accessory)

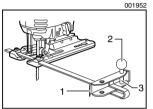
#### **△** CAUTION:

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

#### 1. Straight cuts

When repeatedly cutting widths of 160 mm (6-5/16") or less, use of the rip fence will assure fast, clean, straight cuts. To install, insert the rip fence into the rectangular hole on the side of the tool base with the fence guide facing down. Slide the rip fence to the desired cutting width position, then tighten the bolt to secure it.





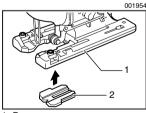
1. Fence guide

- 2. Threaded knob
- 3. Circular guide pin

# 

#### 1. Cover plate

2. Base



Base
 Anti-splintering device

#### 2. Circular cuts

When cutting circles or arcs of 170 mm (6-11/16") or less in radius, install the rip fence as follows.

Insert the rip fence into the rectangular hole on the side of the tool base with the fence guide facing up. Insert the circular guide pin through either of the two holes on the fence guide. Screw the threaded knob onto the pin to secure the pin.

Now slide the rip fence to the desired cutting radius, and tighten the bolt to secure it in place. Then move the tool base all the way forward.

#### NOTE:

• Always use blades No. B-17, B-18, B-26 or B-27 when cutting circles or arcs.

#### **Cover plate**

Use the cover plate when cutting decorative veneers, plastics, etc. It protects sensitive or delicate surfaces from damage. Fit it on the back of the tool base.

#### Anti-splintering device

For splinter-free cuts, the anti-splintering device can be used. To install the anti-splintering device, move the tool base all the way forward and fit it from the back of tool base. When you use the cover plate, install the anti-splintering device onto the cover plate.

#### ▲ CAUTION:

• The anti-splintering device cannot be used when making bevel cuts.

## MAINTENANCE

#### **△** CAUTION:

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

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

# 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.

- Jig saw blade
- Rip fence set
- Dust nozzle
- Cover plate
- Anti-splintering device
- Hex wrench

Memo
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Memo
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VIRGINIA 5760 Northampton Blvd,. Ste. 102 Virginia Beach, VA 23455 (757) 460-0280

WASHINGTON 22220 84th Ave. So., Bldg. A Kent, WA 98032 (253) 395-8055

WISCONSIN Lincoln Plaza Shopping Ctr. 2245 S. 108th St. West Allis, WI 53227 (414) 541-4776

#### CUSTOMER'S RECORD

When you need service: Send complete tool (prepaid) to one of the Makita Factory Service Centers listed, or to an Authorized Makita Service Center. Be sure to attach a letter to the outside of the carton detailing the problem with your tool.

 
 vice: Send id) to one Service
 Date Purchased

 Dealer's Name & Address
 Dealer's Name & Address

 an Authorized er. Be sure he outside of he problem
 Model No.

 Serial No.
 Serial No.

# WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

# 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 form 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 MANUFACTURING EUROPE LTD ROAD 7, HORTONWOOD INDUSTRIAL ESTATE TELFORD, SHROPSHIRE TF1 4GP, ENGLAND

884427-062

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