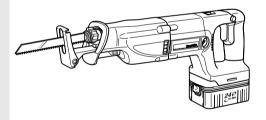


Cordless Recipro Saw

Equipped with Electric Brake MODEL BJR240



INSTRUCTION MANUAL

⚠ WARNING:

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

www.makitatools.com

SPECIFICATIONS

MODEL			BJR240		
Length of stroke			32 mm (1-1/4")		
Strokes per minute		High speed: 0 - 2700/min. Low speed: 0 - 2300/min.			
Overall length			469 mm (18-	1/2")	
Net weight		4.4 kg (9.7 lbs)			
Battery Charger	DC2	4SA		DC24WA	
Input	A.C. only 50 Hz - 60 Hz				
Output	D.C. 7.2 V - 24 V				
Battery Cartridge	BH2420	BH24	33	BH2420	BH2433
Voltage	24 V				
Charging time	30 min.	60 m	n.	55 min.	90 min.

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

GENERAL SAFETY RULES

USA003-1

(FOR All BATTERY OPERATED 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

- Keep your work area clean and well lit.
 Cluttered benches and dark areas invite accidents.
- 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.

 Keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

- 4. A battery operated tool with integral batteries or a separate battery pack must be recharged only with the specified charger for the battery. A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.
- Use battery operated tool only with specifically designated battery pack. Use of any other batteries may create a risk of fire.

Personal Safety

- 6. 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.
- 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.
- Avoid accidental starting. Be sure switch
 is in the locked or off position before
 inserting battery pack. Carrying tools with
 your finger on the switch or inserting the battery pack into a tool with the switch on invites
 accidents.
- 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.
- 10. Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enable better control of the tool in unexpected situations.
- 11. Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

Tool Use and Care

- 12. 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.
- 13. 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.
- 14. Do not use tool if switch does not turn it on or off. A tool that cannot be controlled with the switch is dangerous and must be repaired.
- 15. Disconnect battery pack from tool or place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- 16. Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- 17. 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 sparks, burns, or a fire.
- 18. Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edge are less likely to bind and are easier to control.
- 19. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
- 20. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may create a risk of injury when used on another tool.

SERVICE

- 21. Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel may result in a risk of injury.
- 22. 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 shock or injury.

SPECIFIC SAFETY RULES

USB029-2

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to cordless recipro 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 tool may contact hidden wiring.
 Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
- Be aware that this tool is always in an operating condition, because it does not have to be plugged into an electrical outlet.
- Always use safety glasses or goggles. Ordinary eye or sun glasses are NOT safety glasses.
- Avoid cutting nails. Inspect workpiece for any nails and remove them before operation.
- 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.
- Make sure the blade is not contacting the workpiece before the switch is turned on.
- 9. Keep hands away from moving parts.
- Always switch off and wait for the blade to come to a complete stop before removing the blade from the workpiece.
- 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 USD301-1

The followings show the symbols used for tool.

Vvolts

□mo load speed

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

IMPORTANT SAFETY INSTRUCTIONS FOR CHARGER & BATTERY CARTRIDGE

USC002-2

- SAVE THESE INSTRUCTIONS This manual contains important safety and operating instructions for battery charger.
- Before using battery charger, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
- CAUTION To reduce risk of injury, charge only MAKITA rechargeable batteries marked on the charger label. Other types of batteries may burst causing personal injury and damage.
- 4. Do not expose charger to rain or snow.
- Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury to persons.

- To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
- Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- 8. An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock. If extension cord must be used, make sure:
 - That pins on plug of extension cord are the same number, size, and shape as those of plug on charger;
 - That extension cord is properly wired and in good electrical condition; and
 - That wire size is at least as large as the one specified in the table below.

Table 1: RECOMMENDED MINIMUM AWG SIZE FOR EXTENSION CORDS FOR BATTERY CHARGERS

Length of Cord (Feet)	25	50	100	150
AWG Size of Cord	18	18	18	16

- Do not operate charger with damaged cord or plug - replace them immediately.
- Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
- 11. Do not disassemble charger or battery cartridge; take it to a qualified serviceman when service or repair is required, Incorrect reassembly may result in a risk of electric shock or fire.
- To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.
- 13. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
- 14. 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.

ADDITIONAL SAFETY RULES FOR CHARGER & BATTERY CARTRIDGE

- Do not charge Battery Cartridge when temperature is BELOW 10°C (50°F) or ABOVE 40°C (104°F).
- Do not attempt to use a step-up transformer, an engine generator or DC power receptacle.
- Do not allow anything to cover or clog the charger vents.
- A battery short can cause a large current flow, overheating, possible burns and even a breakdown.
 - (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.
- Do not store the tool and Battery Cartridge in locations where the temperature may reach or exceed 50°C (122°F).
- 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.

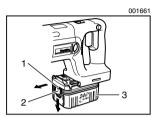
SAVE THESE INSTRUCTIONS

SYMBOLS

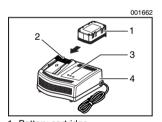
The following show the symbols used for the charger. Be sure that you understand their meaning before use.



FUNCTIONAL DESCRIPTION



- 1. Red part
- 2. Button
- 3. Battery cartridge



- 1. Battery cartridge
- 2. Terminal cover
- 3. Charging lights
- 4. Battery charger

↑ 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

- Always switch off the tool before insertion or removal of the battery cartridge.
- To remove the battery cartridge, withdraw it from the tool while sliding the button on the side of the cartridge.
- To insert the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Always insert it all the way until it locks in place with a little click. If you can see the red part on the upper side of the button, it is not locked completely. Insert it fully until the red part cannot be seen. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.
- Do not use force when inserting the battery cartridge. If the cartridge does not slide in easily, it is not being inserted correctly.

Charging

- Plug the battery charger into the proper AC voltage source. Two charging lights will flash in green color repeatedly.
- Insert the battery cartridge into charger until it stops adjusting to the guide of charger. Terminal cover of charger can be opened with inserting and closed with pulling out the battery cartridge.
- When the battery cartridge is inserted, the charging light color will change from green to red and charging will begin. The charging light will keep lighting up lit steadily during charging. One red charging light indicates charged condition in 0 - 80% and two red ones indicates 80 - 100%.
- 4. With finish of charge, the charging lights will change from two red ones to two green ones.

- 5. If you leave the battery cartridge in the charger after the charging cycle is complete, the charger will switch into its "trickle charge (maintenance charge)" mode which will last approximately 24 hours.
- After charging, unplug the charger from the power source.

NOTE:

- The battery charger is for charging Makita battery cartridge. Never use it for other purposes or for other manufacturer's batteries.
- When you charge a new battery cartridge or a battery cartridge which has not been used for a long period of time, it may not accept a full charge. This is a normal condition and does not indicate a problem. You can recharge the battery cartridge fully after discharging it completely and recharging a couple of times.
- If you charge a battery cartridge from a just operated tool or battery cartridge which has been left in a location exposed to direct sunlight for a long time, the charging light may flash in red color. If this occurs, wait for a while. Charging will begin after the battery cartridge is cooled by the cooling fan installed in the charger. (DC24SA only) When the temperature on battery is more than approx. 70°C, two charging lights may flash in red color, and when approx. 50°C 70°C, one charging light in red color.
- If the charging light flashes alternately in green and red color, charging is not possible. The terminals on the charger or battery cartridge are clogged with dust or the battery cartridge is worn out or damaged.

Cooling system (DC24SA only)

- This charger is equipped with cooling fan for heated battery in order to enable the battery to prove its own performance. Sound of cooling air comes out during cooling, which means no trouble on the charger.
- Yellow light will flash for warning in the following cases.
 - Trouble on cooling fan
 - Incomplete cool down of battery, such as, being clogged with dust

The battery can be charged in spite of the yellow warning light. But the charging time will be longer than usual in this case.

- Check the sound of cooling fan, vent on the charger and battery, which can be sometime clogged with dust.
- The cooling system is in order although no sound of cooling fan comes out, if the yellow warning light will not flash.
- Always keep clean the vent on charger and battery for cooling.
- The products should be sent to repair or maintenance, if the yellow warning light will frequently flash.

Conditioning charge (DC24SA only)

Conditioning charge can extend the life of battery by automatically searching the optimum charging condition for the batteries in every situations.

The battery employed in the following conditions repeatedly, will be worn out shortly, and yellow warning light may flash.

- 1. Recharge of battery with its high temperature
- 2. Recharge of battery with its low temperature
- 3. Recharge of full charged battery
- 4. Over-discharge of battery (continue to discharge battery in spite of down of power.)

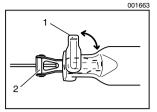
The charging time of such battery is longer than usual.

Trickle charge (Maintenance charge)

If you leave the battery cartridge in the charger to prevent spontaneous discharging after full charge, the charger will switch into its "trickle charge (maintenance charge)" mode and keep the battery cartridge fresh and fully charged.

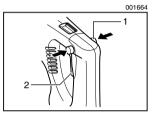
Tips for maintaining maximum battery life

- 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 $10^{\circ}\text{C} 40^{\circ}\text{C}$ ($50^{\circ}\text{F} 104^{\circ}\text{F}$).
 - Let a hot battery cartridge cool down before charging it.
- 4. Charge the Nickel Metal Hydride battery cartridge when you do not use it for more than six months.



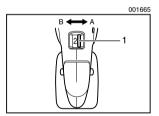
Lever

2. Shoe



1. Lock-off button

2. Switch trigger



1. Speed change lever

Adjusting shoe

When the blade loses its cutting efficiency in one place along its cutting edge, reposition the shoe to utilize a sharp, unused portion of its cutting edge. This will help to lengthen the life of the blade. To reposition the shoe, loosen the lever counterclockwise and slide the shoe forward or back to the desired position. Then tighten the lever clockwise to firmly secure the shoe.

Switch action

△ CAUTION:

 Before inserting the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

To prevent the switch trigger from being accidentally pulled, a lock-off button is provided.

To start the tool, press in the lock-off button and pull the switch trigger. The lock-off button can be pressed in from either left or right side of the tool. Tool speed is increased by increasing pressure on the switch trigger. Release the switch trigger to stop.

Speed change

⚠ CAUTION:

- Always set the speed change lever fully to the correct position. If you operate the tool with the speed change lever positioned half-way, the tool may be damaged.
- Do not use the speed change lever while the tool is running. The tool may be damaged.

To change the speed, first switch off the tool and then slide the speed change lever to the A side (2) for high speed or B side (1) for low speed. Be sure that the speed change lever is set to the correct position before operation. Use the right speed for your job.

ASSEMBLY

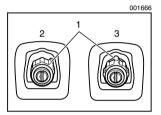
↑ CAUTION:

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

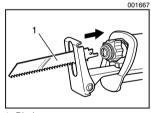
Installing or removing the saw blade

 Always clean out all chips or foreign matter adhering to the blade, blade clamp and/or slider. Failure to do so may cause insufficient tightening of the blade, resulting in a serious injury.

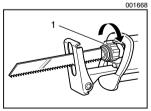
To install the saw blade, always make sure that the blade clamp sleeve is in released position before inserting the saw blade. If the blade clamp sleeve is in fixed position, rotate the sleeve to the released position.



- 1. Blade clamp sleeve
- 2. Released position
- 3. Fixed position



1. Blade



1. Blade clamp sleeve

Insert the saw blade into the blade clamp as far as it will go. The blade clamp sleeve rotates and the saw blade is fixed. Make sure that the saw blade cannot be extracted even though you try to pull it out.

NOTE:

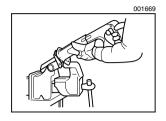
 If you do not insert the saw blade deep enough, the saw blade may be ejected unexpectedly during operation.
 This can be extremely dangerous.

To remove the saw blade, rotate the blade clamp sleeve in the direction of the arrow fully. The saw blade is removed and the blade clamp sleeve is fixed at the released position.

NOTE:

 If you remove the saw blade without rotating the blade clamp sleeve fully, the sleeve may not be fixed. In this case, rotate the blade clamp sleeve fully, then make the sleeve fixed at the released position.

OPERATION



↑ CAUTION:

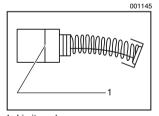
- Always press the shoe firmly against the workpiece during operation. If the shoe is held away from the workpiece during operation, strong vibration and/or twisting will be produced, causing the blade to snap dangerously.
- Always wear gloves to protect your hands from hot flying chips when cutting metal.
- Always use a suitable coolant (cutting oil) when cutting metal. Failure to do so will cause premature blade wear.
- If the tool is operated continuously until the battery cartridge has discharged, allow the tool to rest for 15 minutes before proceeding with a fresh battery.

Press the shoe firmly against the workpiece. Do not allow the tool to bounce. Bring the blade into light contact with the workpiece. First, make a pilot groove, using a slower speed. Then use a faster speed to continue cutting.

MAINTENANCE

⚠ CAUTION:

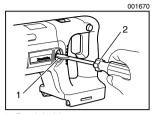
 Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.



1. Limit mark

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.



1. Brush holder cap

2. Screwdriver

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.

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.

- · Recipro saw blades
- Plastic carrying case

Memo			

Memo		

First-Class
Postage
Required

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Makita U.S.A., Inc. 14930 Northam Street La Mirada, CA 90638-5753

Hdallaallaalldalalddaladdalallalall

MAIL THIS PORTION

Your answers to the following questions are appreciated.

1. This product was purchased	from:		3. How did you learn abou	t this product:	
Home Center	Other ()	Magazine	Radio	
Hardware/Lumber Store			From Dealer	Exhibition	
Tool Distributor			Newspaper	From Friend	
Industrial Supply			Store Display	Previous Usage	Э
Construction Supply			Catalog	Other ()
2. Use of the product is intende	ed for:		4. Most favored points are	: :	
Construction Trade			Design	Repair Service	
Industrial Maintenance			Features	Durability	
Home Maintenance			Size	Power	
Hobby			Price	Other ()
Other ()			Makita Brand		
5. Any comments:					
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NEW YORK

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PUERTO RICO

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1120 Flm Hill P. Suile 170 Nashville, TN 372 (615) 248-3321

TEXAS

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12701 Directors Dr. Stafford, TX 77477-3701 (281) 565-8665

3453 IH-35 North, Ste. 101 San Antonio, TX 78219 (210) 228-0676

WISCONSIN

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

CUSTOMER'S RECORD

When you need service: Send	Date Purchased
complete tool (prepaid) to one of the Makita Factory Service	Dealer's Name & Address
Centers listed, or to an Authorized Makita Service Center. Be sure	
to attach a letter to the outside of the carton detailing the problem	Model No.
with your tool.	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 I IMITED ONE YEAR WARRANTY

Warranty Policy

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

This Warranty does not apply where:

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

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

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

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

Makita Corporation

3-11-8, Sumiyoshi-cho, Anjo, Aichi 446-8502 Japan