



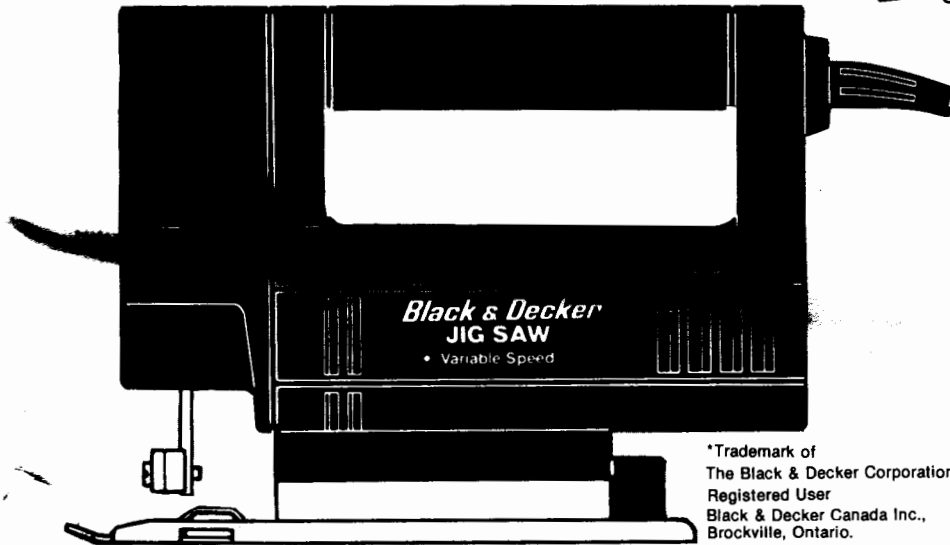
BLACK & DECKER *

Full 2 Year
Warranty

M-47 Series

Corvus Jig Saw #746

JIG SAWS #75
IS



*Trademark of
The Black & Decker Corporation.
Registered User
Black & Decker Canada Inc.,
Brockville, Ontario.

Model 7543-04 Single Speed

Model 7548-04 Variable Speed

Capacity: 1 in. in hard wood;

1 1/2 in. in soft wood

INSTRUCTION MANUAL

7543-04

7548-04

7543-04 & 7548-04 JIG SAWS

INTRODUCTION

Your new jig saw has been engineered for versatility and rugged use. Whether you have the **7543-04 Single Speed Jig Saw** or the **7548-04 Variable Speed** model you can be assured that it was built to Black & Decker's rigid quality standards that have made ours the name to count on for over 70 years.

Our innovative M-47 Series motor design makes it possible to reduce the overall size of the tool without sacrificing any power. The smaller size puts the handle closer to the work surface for better control and allows cutting in tight spots that isn't possible with conventional jig saws.

Features like anti-splintering shoes and full bevel adjustment left and right make these excellent values that will serve you for years to come.

Don't forget to send in your owner's registration card.

Thanks for selecting Black & Decker!

IMPORTANT SAFETY INSTRUCTIONS (For All Tools)

WARNING When using Electric Tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

READ ALL INSTRUCTIONS

1. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite injuries.
2. **CONSIDER WORK AREA ENVIRONMENT.** Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit.
3. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosures.
4. **KEEP CHILDREN AWAY.** All visitors should be kept away from work area. Do not let visitors contact tool or extension cord.
5. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place — out of reach of children.
6. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was intended.
7. **USE RIGHT TOOL** Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended, for example, don't use circular saw for cutting tree limbs or logs.
8. **DRESS PROPERLY.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and nonskid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
9. **USE SAFETY GLASSES.** Also use face or dustmask if cutting operation is dusty.
10. **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
11. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
12. **DON'T OVERREACH.** Keep proper footing and balance at all times.

IMPORTANT SAFETY INSTRUCTIONS (Cont'd)

13. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safe performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free from oil and grease.
14. **DISCONNECT TOOLS.** When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.
15. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
16. **AVOID UNINTENTIONAL STARTING.** Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
17. **OUTDOOR EXTENSION CORDS.** When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
18. **STAY ALERT.** Watch what you are doing. Use common sense. Do not operate tool when you are tired.
19. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. **Check alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation.** A guard or other part that is damaged should be properly repaired or replaced by an authorized service centre unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service centre. Do not use tool if switch does not turn it on and off.
20. **DO NOT OPERATE** portable electric tools near flammable liquids or in gaseous or explosive atmospheres. Motors in these tools normally, spark, and the sparks might ignite fumes.

ADDITIONAL SAW SAFETY RULES

1. **KEEP HANDS AWAY** from cutting area. Never reach underneath the material for any reason.
2. **KEEP BLADE SHARP.** Dull blades may break or cause the saw to swerve or stall under pressure.

CAUTION: When sawing into walls, floors or wherever "live" electrical wires may be encountered, DO NOT TOUCH ANY METAL PARTS OF THE TOOL! Hold the jig saw only by its plastic handle to prevent electric shock if you saw into a "live" wire.

DOUBLE INSULATION

Your tool is **Double-Insulated** to give you added safety. This means that it is constructed throughout with TWO separate "layers" of electrical insulation or one DOUBLE thickness of insulation between you and the tool's electrical system.

Tools built with this improved insulation system are not intended to be grounded. As a result, your tool is equipped with a two-prong plug which permits you to use any conventional 120 volt electrical outlet without concern for maintaining a ground connection.

DOUBLE INSULATION (Cont'd)

NOTE: Double-Insulation does not take the place of normal safety precautions when operating this tool. The improved insulation system is for added protection against injury resulting from a possible electrical insulation failure within the tool.

CAUTION: When servicing Double-Insulated Tools, USE ONLY IDENTICAL REPLACEMENT PARTS. Replace or repair damaged cords.

EXTENSION CORDS

Double-insulated tools have 2 wire cords, and can be used with 2 wire or 3 wire extension cords. Only round jacketed extension cords should be used. If the extension will be used outside, the cord must be suitable for outdoor use. Any cord marked as outdoor can also be used for indoor work. (The letter "W" on the cord jacket indicate that the cord is suitable for outdoor use.)

An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety, and to prevent loss of power and overheating. The smaller the gauge number of the wire, the greater the capacity of the cable, that is 14 gauge has more capacity than 16 gauge. When using more than one extension to make up the total length, be sure each individual extension contains at least the minimum wire size.

To determine the minimum wire size required, refer to the chart below:

NAMEPLATE RATING — AMPS*	CHART FOR MINIMUM WIRE SIZE (AWG) OF EXTENSION CORDS							
	TOTAL EXTENSION CORD LENGTH — FEET							
	25	50	75	100	125	150	175	200
0 - 10.0	16	16	16	16	14	14	12	12
10.1 - 13.0	16	16	14	14	14	12	12	12
13.1 - 15.0	14	14	12	12	12	12	12	—

Before using an extension cord, inspect it for loose or exposed wires, damaged insulation, and defective fittings. Make any needed repairs or replace the cord if necessary. Black & Decker has extension cords available that are CSA Certified for outdoor use.

*If the input rating of a Tool is given in watts rather than in amperes, the corresponding ampere rating is to be determined by dividing the wattage rating by the voltage rating — for example:

$$\frac{1250 \text{ watts}}{125 \text{ volts}} = 10 \text{ amperes}$$

SAVE THESE INSTRUCTIONS

MOTOR

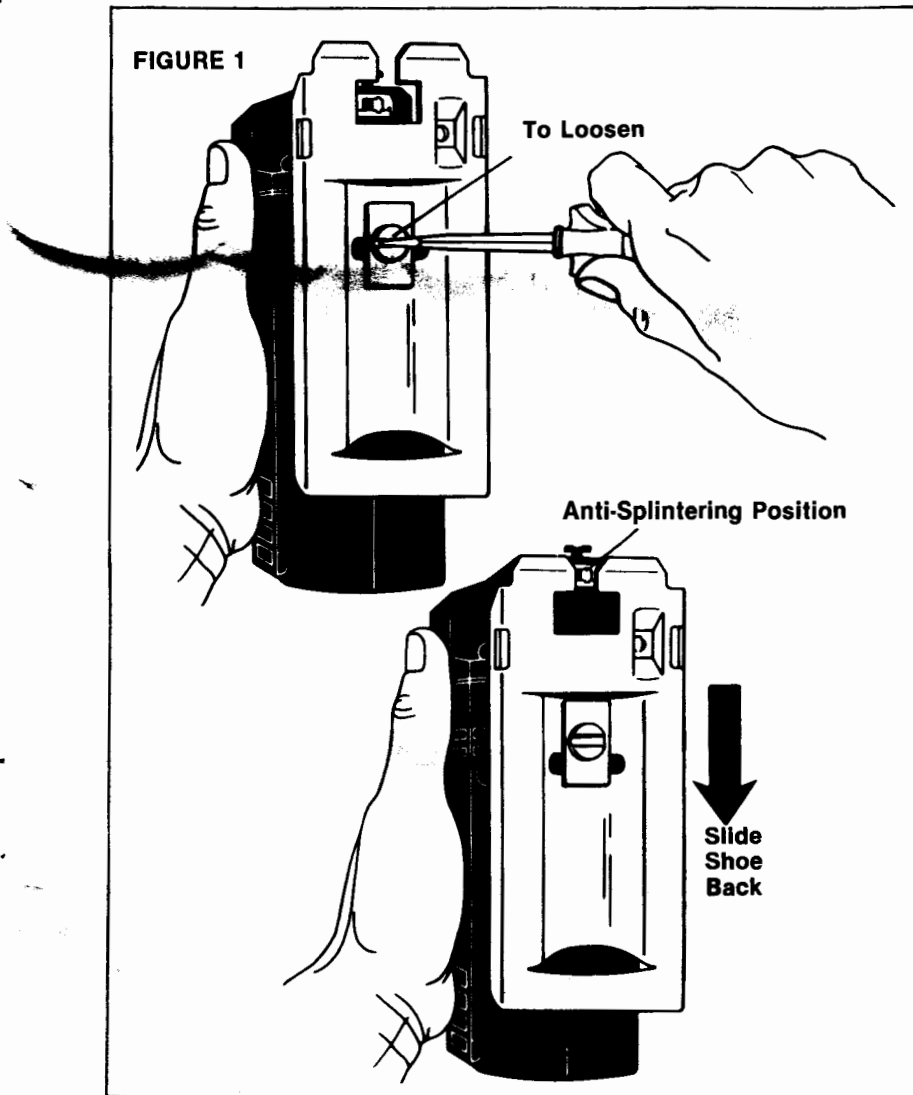
Your Black & Decker tool is powered by a B&D-built motor. Be sure your power supply agrees with nameplate marking. 120 Volts 50/60 Hz or 120 Volts AC Only means Alternating Current (normal 120 volt, 60 cycle house current). Voltage decrease of more than 10% will cause loss of power and overheating. All B&D tools are factory-tested; if this tool does not operate, check the supply line for blown fuses; plug and receptacle for contact.

ANTI-SPLINTERING SHOE POSITION

(Turn OFF and UNPLUG saw)

Your saw is equipped with an anti-splintering shoe which is particularly useful when cutting plywood. To help control splintering for a smoother cut, loosen (do not remove) the screw in the bottom of the shoe, as shown in **Figure 1**. Slide the shoe back, as shown in the figure, as far as it will go. Tighten the screw to hold the shoe in this position.

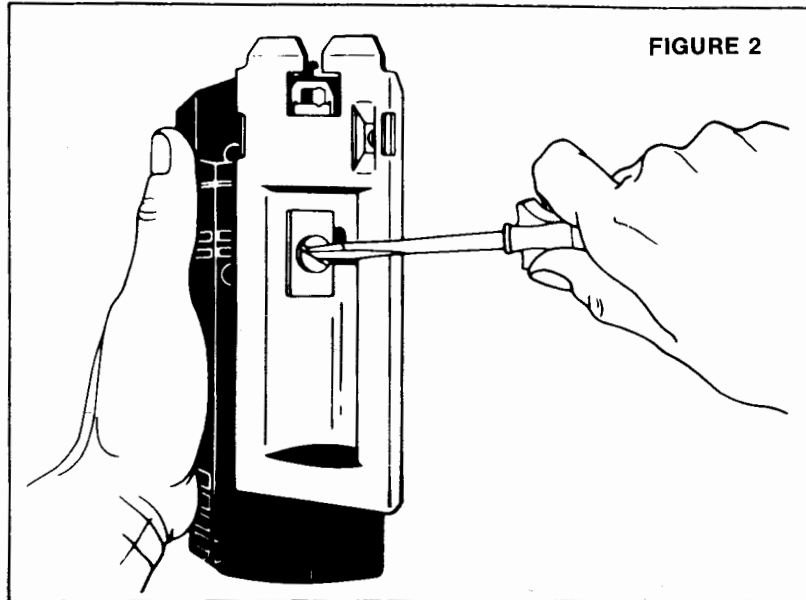
NOTE: The anti-splintering position of the shoe can only be used when the blade is in the straight (0° bevel) setting. (Do not cut metal with the shoe in the anti-splintering position.)



BEVEL ADJUSTMENT

(Turn OFF and UNPLUG saw)

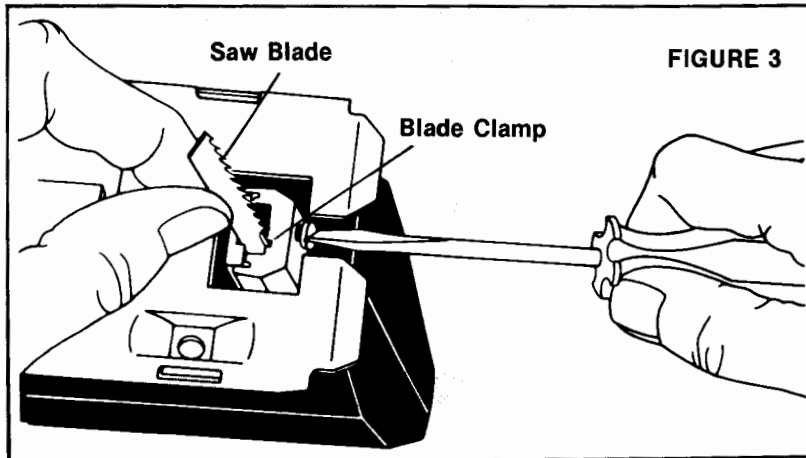
To adjust the bevel angle, loosen the screw, as shown in **Figure 2** and adjust the bevel left or right as desired using the handy protractor scale stamped in the shoe. Although this scale is a good reference, we recommend test cutting in scrap material before attempting any finish work.



BLADE INSTALLATION

(Turn OFF and UNPLUG saw)

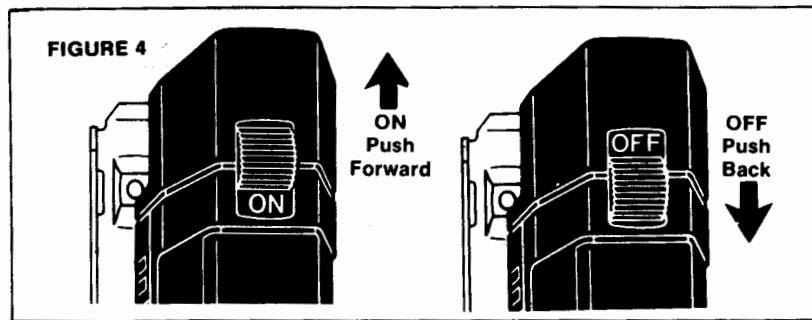
To install a blade, loosen the blade clamp screw with a screwdriver, as shown in **FIGURE 3**. Insert the saw blade all the way, as shown in the figure and tighten the screw. To remove the blade, simply loosen the screw.



SWITCH

#7543-04 Single Speed Jig Saw

To turn the saw on, push the slide switch forward, as shown in **Figure 4**. To turn the tool off, slide the switch back as shown in the figure.

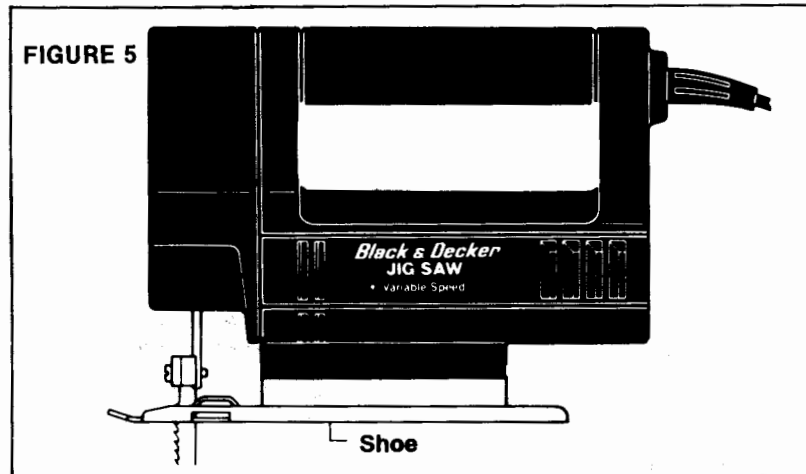


SWITCH

#7548-04 Variable Speed Jig Saw

To turn the saw on, push the slide switch forward just far enough so that the saw begins to run. The farther you slide the switch forward, the faster the tool will run.

To turn the saw off, slide the switch back until the tool stops.



OPERATION

WOOD CUTTING

Be sure board is firmly positioned. Hold jig saw by the convenient overhead handle and operate switch to turn the unit on. **Don't attempt to turn unit on when blade is against material to be cut.** This could stall the motor. Place front of shoe on material to be cut and hold jig saw shoe down firmly against the wood while cutting. Don't force the tool; let the blade cut at its own speed. Whenever possible, clamp or support work close to the line of cut. When the cut is completed, shut off power and lay the saw aside before loosening the work.

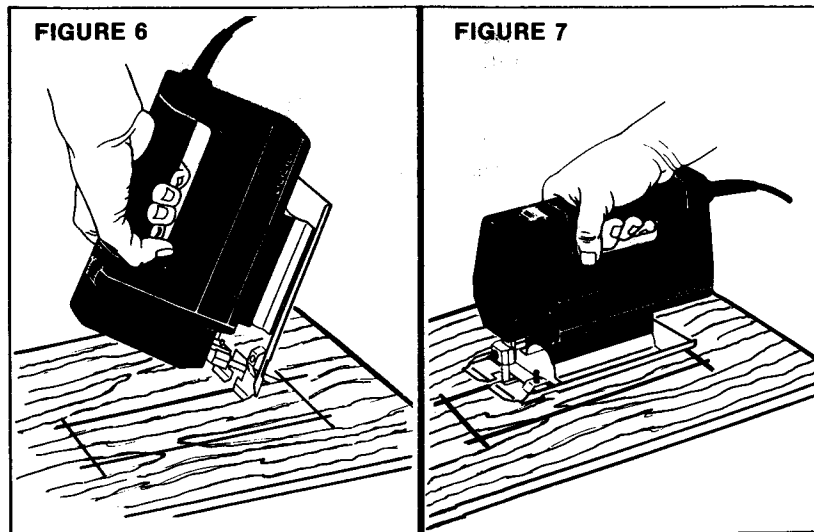
METAL AND PLASTIC CUTTING

In cutting thin gauge sheet metals, it is best to clamp wood or plywood to the bottom of the metal sheet; this will insure a clean cut without the danger of vibration or tearing of metal. Always remember to use a finer tooth blade for ferrous metals (those that have an iron content); and use a coarser tooth blade for non-ferrous metals (those that do not have an iron content).

Use lower speeds or slow feed rates for cutting metals, plastics and composition tile. When cutting laminated plastic, place the finished side down and use a fine tooth hollow ground blade.

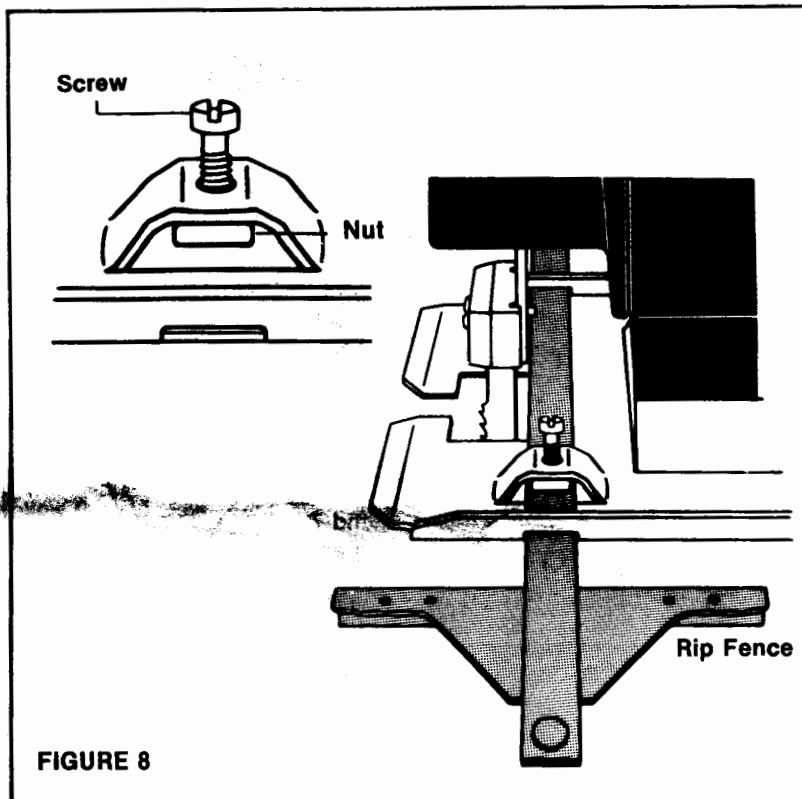
POCKET CUTTING (See Figures 6 and 7)

A pocket cut is an easy method of making an inside cut. The saw can be inserted directly into a panel or board without first drilling a lead or pilot hole. In pocket cutting, **measure the surface to be cut and mark clearly with a pencil.** Next **tip the saw forward until the front edge of the shoe sits firmly on the work surface.** Switch the tool on and allow it to attain maximum speed. Grip the handle firmly and lower the back edge of tool until the blade cuts smoothly into material. Always be sure blade reaches its complete depth before starting to cut. **NOTE: Do not attempt to pocket cut with the shoe in the anti-splintering position.**



RIP AND CIRCLE CUTTING (See Figures 8, 9 and 10)

Ripping and circle cutting without a pencil line are easily done with the Accessory Rip Fence and Circle Guide (available at extra cost).



The nut and screw shown above are included with this Accessory. Position the nut as shown and thread the screw into it just enough to hold the nut loosely in position.

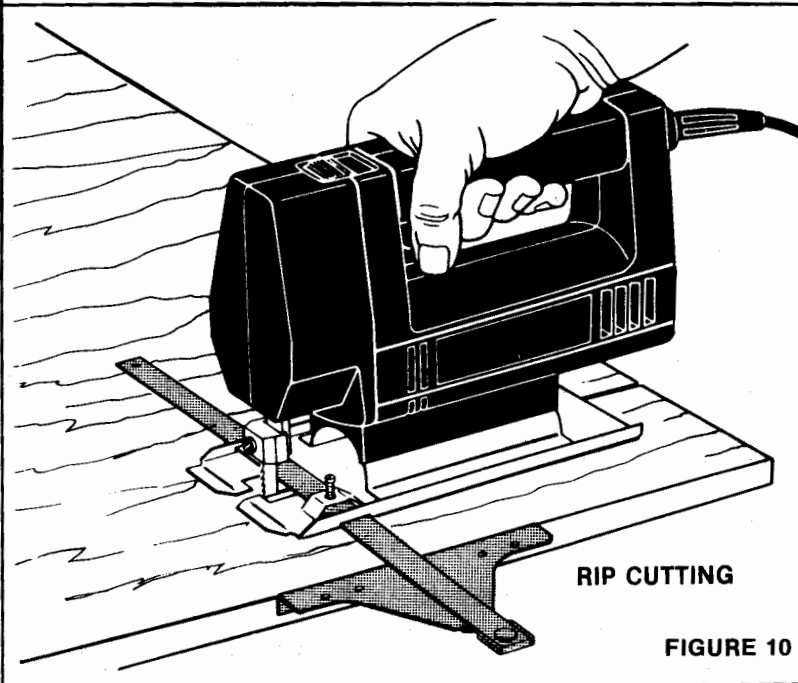
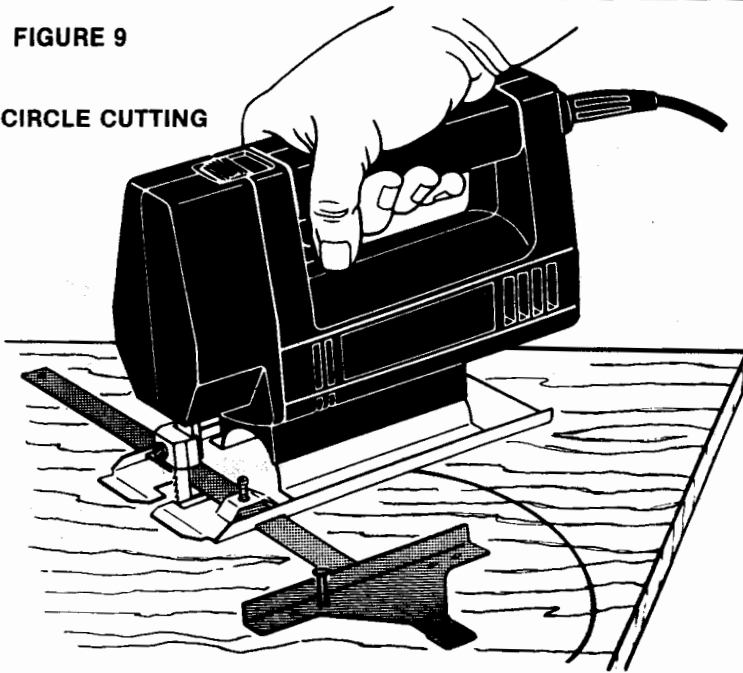
Pull up on the screw and slide the Rip Fence under the nut from either side of the saw. Set the cross bar at desired distance from blade and tighten screw. For ripping, the cross bar should be down as shown. For circle cutting, the cross bar should be up.

When ripping; insert rip fence in either side of saw; adjust to width of cut and tighten screw. When circle cutting, insert rip fence from either side with cross bar facing up. Adjust rip fence so that distance from blade to hole in cross bar (hole closest to center of arm and in line with front of saw blade) is the desired radius and tighten screw. Place saw so that center of hole in cross bar is over center of circle to be cut (make pocket cut, drill hole for blade or cut inward from edge of material to get blade into position). When saw is properly positioned, drive a small nail through hole in cross bar closest to the center of the arm (in line with front of saw blade). Using rip fence as a pivot arm, begin cutting circle.

RIP AND CIRCLE CUTTING (Cont'd)

FIGURE 9

CIRCLE CUTTING



RIP CUTTING

FIGURE 10

ACCESSORIES

The accessories listed in this manual are available at extra cost from your dealer, Black & Decker Service Center or by writing to: Black & Decker Canada Inc., 100 Central Ave., Brockville, Ontario K6V 5W6.

Type of Blade	Material To Be Cut	Type of Cut	Speed of Cut	Teeth Per Inch	Blade Length
Wood Cutting					
— Coarse	Soft wood	Rough	Fastest	7	3"
Wood Cutting	Soft wood				
— Fine	3/4" and thicker	Medium	Medium	10	3"
Hollow Ground	Hard wood				
	under 3/4" thick	Smooth	Medium	7	3"
Hollow Ground	Soft & hard wood				
	Plywood, Formica	Extra Fine	Medium	10	4-1/4"
Hollow Ground	Soft & hard wood				
	Plywood	Smooth	Medium	6	4-1/4"
Hollow Ground	Soft & hard wood				
	Plywood	Smooth	Medium	6	4-1/4"
Hollow Ground	Formica	Fine	Medium	10	3"
Hollow Ground	Plywood	Smooth	Medium	7	3"
Hollow Ground	Plywood	Medium	Fast	5	3"
Plaster Cutting	Plaster, plastic	Rough	Fast	9	3-5/8"
Fleam Ground	Green or wet wood	Medium	Medium	10	4"
Fleam Ground	Green or wet wood	Rough	Fast	6	4"
Scroll Cut	Soft & hard wood				
	Plywood, plastic	Smooth	Medium	10	2-3/4"
Metal Cutting	Ferrous & non-ferrous metals	Medium	Medium		
		Fine	Slow	14	2-3/4"
Metal Cutting	Ferrous & non-ferrous metals	Smooth	Medium	18	2-3/4"
Metal Cutting	Ferrous (iron) metals	Fine	Slow	24	2-3/4"
Metal Cutting	Ferrous (iron) metals	Very Fine	Slow	32	2-3/4"
Knife Blade	Leather, rubber composition tile	Smooth	Fast	Knife Edge	3"
Skip Tooth	Plywood, plastics	Rough	Fast	5	3"
2-way Cutting	Most wood & Fiber building materials	Rough	Fast	7	3"
		Medium	Medium	10	3"
Flush Cutting	Soft & hard wood over 1/4" thick	Rough	Fast	7	3"

Recommended accessories for your saw are listed above. THE USE OF ANY OTHER ACCESSORIES OR ATTACHMENTS MAY BE HAZARDOUS.

CLEANING AND LUBRICATION

Use only mild soap and a damp cloth to clean the tool. Do not use turpentine, gasoline, lacquer or paint thinner, dry cleaning fluids or similar products. Never let any liquid get inside the tool, never immerse any part of the tool into a liquid.

Permanently lubricated bearings and gears are used in these units, as well as factory-installed oil reservoirs. No periodic lubrication is required.

In the unlikely event that this tool should ever require service, take or send it to your nearest Black & Decker Service Centre or authorized repair facility. Black & Decker Service Centre addresses are listed on the owner's registration card packed with your saw.

IMPORTANT

To assure product safety and reliability, repairs, maintenance and adjustment (other than those included in this manual) should be performed by Black & Decker Service Centres or other qualified service organizations, always using Black & Decker parts. When servicing Double Insulated tools, **USE ONLY IDENTICAL REPLACEMENT PARTS.**

RAPID EXCHANGE HOME USE WARRANTY

Black & Decker warrants this product for two years against defect in material and workmanship in normal residential use. This warranty does not cover damage resulting from negligent handling, misuse or lack of reasonable care. Please return the complete unit, transportation prepaid, to the seller for free replacement if the seller is a participating retailer in the Black & Decker rapid exchange program. (Proof of purchase may be required by the seller.) The unit may also be returned to a Black & Decker service centre or authorized service station for free replacement or repair at our option. This warranty does not apply to accessories.

In returning the tool for replacement, all original standard equipment must also be returned (for example, chuck, chuck key, auxiliary handles, circular saw blades). expendable original equipment such as sanding sheets, belts and discs and jig saw blades need not be returned. For kits and assortments only the basic power tool will be replaced.

The sole remedy for breach of this warranty and the sole obligation of Black & Decker hereunder is the repair or replacement of the defective product at Black & Decker's option. Black & Decker shall have no liability whatsoever at any time for any personal injury or property damages or for any special, indirect or consequential damages of any kind howsoever arising.

This warranty is strictly limited to its terms and is in lieu of any kind and all other warranties and conditions, written or oral, whether express or implied.

Note: This warranty and related provisions set out above may not be applicable in certain provinces.

**BLACK & DECKER CANADA INC.,
100 Central Ave.,
Brockville, Ontario K6V 5W6**

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