

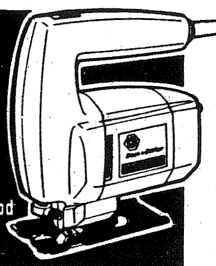
INSTRUCTIONS

Black & Decker

DOUBLE INSULATED

No. 7504 JIG SAW

Capacity: 1" hardwood — 1½" softwood
120 Volts, 50/60 Hz
(normal house current)



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 non-skid 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.
13. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safe performance. Follow instructions for lubrication 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 USE 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 for 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 center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service centers. Do not use tool if switch does not turn in 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.
SAVE THESE SAFETY RULES FOR FUTURE USE.

Your Jig Saw is **DOUBLE-INSULATED** for added protection against injury resulting from a possible electrical insulation failure within the tool. **CAUTION:** When servicing, 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 and we recommend that they be listed by Underwriters Laboratories (U.L.). 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 letters "WA" 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 over-heating. The smaller the gauge number of the wire, the greater the capacity of the cable, that is 16 gauge has more capacity than 18 gauge. When using more than one extension cord to make up the total length, be sure each individual extension cord 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	18	18	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 U.L. listed for outdoor use.

CAUTION: Recommended saw blades and accessories for your Saw are listed in Black & Decker Consumer Products Catalogs. The use of any other accessory or attachment might be hazardous.

ATTACHING BLADES

Disconnect tool from extension cord or wall receptacle. Loosen screw at side of chuck with screwdriver (Fig. 1). Insert blade in chuck as far as it will go (about ½"). Tighten screw until it is firm against blade.

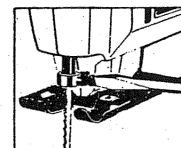


FIG. 1

SWITCH

Push Switch Button forward to turn tool "ON" (Fig. 2). Push Switch Button backward toward electric cord to turn tool "OFF". **CAUTION:** Be sure switch is in "OFF" position before plugging electric cord into power supply.

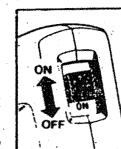


FIG. 2

WOOD CUTTING (Fig. 3)

Be sure board is firmly positioned. Hold Jig Saw by the convenient overhead handle and operate switch to turn the unit on. 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.

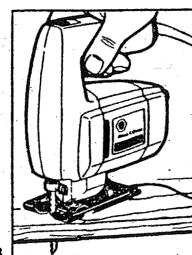
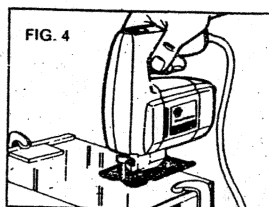


FIG. 3

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.

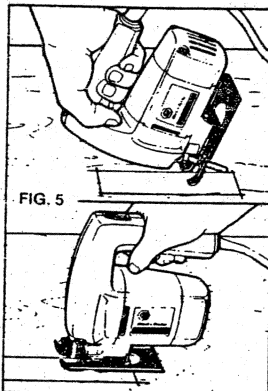
METAL CUTTING (Fig. 4)

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



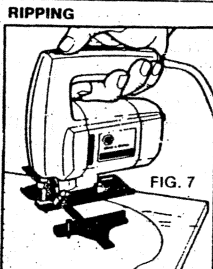
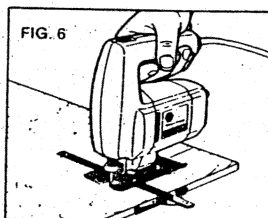
POCKET CUTTING (Fig. 5)

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 out pattern.



RIP & CIRCLE CUTTING (Figs. 6 & 7)

Ripping and circle cutting without a pencil line are easily done with the No. U-2151 Accessory Rip Fence and Circle Guide (available at extra cost) (See Fig. 8 for attachment). When ripping; insert rip fence in either side of saw; adjust to width of cut and tighten thumb 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* is the desired radius and tighten thumb 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 of cross bar* into exact center of circle to be cut. Using rip fence as a pivot arm, begin cutting circle. The Nut and Thumb Screw are included with this Accessory. Hold the nut in the position shown and thread the thumb screw into it just enough to hold the nut loosely in position. Pull up on the thumb screw and slide the Rip Fence

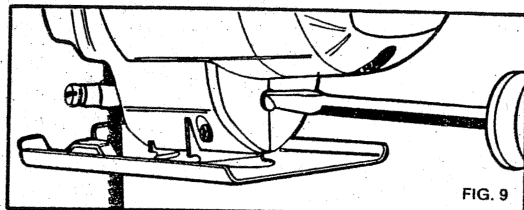
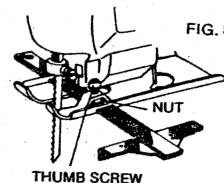


CIRCLE CUTTING

*Hole closest to center of arm, in line with front of blade.

RIP & CIRCLE CUTTING Cont'd.

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



BEVEL ADJUSTMENT (Fig. 9)

The Jig Saw Shoe may be tilted to permit bevel cutting at any angle from 0° to 45°. To change the angle of the shoe, loosen screw (see above) and tilt shoe to desired cutting angle with blade. Retighten screw. Cutting angles of 0° thru 45° for rough cuts are indicated on left side, raised portion of shoe when viewed from rear of saw. A protractor is recommended when very accurate cuts are required.

CAUTION: Recommended saw blades and accessories for your Saw are listed in Black & Decker Consumer Products Catalogs. The use of any other accessory or attachment might be hazardous.

CLEANING & LUBRICATION

Use only mild soap and a damp cloth to clean the tool. Other cleaners contain chemicals which could seriously damage the plastic. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid. Self lubricating bearings are used in the tool and periodic relubrication is not required. However, it is recommended that, once a year, you take or send the tool to a B&D Service Center for a thorough cleaning, inspection and lubrication of the gear case.

IMPORTANT

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment (including brush inspection and replacement) should be performed by BLACK & DECKER Service Centers or other qualified service organizations, always using identical Black & Decker replacement parts.

HOME USE WARRANTY (A FULL ONE-YEAR WARRANTY)

Black & Decker warrants this product for one year against any defects that are due to faulty material or workmanship. Please return the complete unit, transportation prepaid, to the seller (if a participating retailer) for free replacement (proof of purchase may be required). The unit may also be returned to a Black & Decker Service Center or Authorized Service Station, listed under "Tools Electric" in the yellow pages for free replacement or repair at our option. This warranty does not apply to accessories. This warranty gives you specific legal rights and you may have other rights which vary from state to state. Should you have any questions, contact your nearest Black & Decker Service Center Manager.

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