



**Black & Decker**\*

## OWNER'S MANUAL

# DOUBLE INSULATED JIG SAWS

### SAFETY RULES FOR POWER TOOLS

1. **Keep work area clean.** Cluttered areas and benches invite accidents.
2. **Avoid dangerous environment.** Don't expose power tools to rain. Don't use power tool in damp or wet locations. And keep work area well lit.
3. **Keep children away**—All visitors should be kept a safe distance from work area.
4. **Store idle tools.** When not in use, tools should be stored in a dry, high or locked-up place—out of reach of children.
5. **Don't force tool**—It will do the job better and safer at the rate for which it was designed.
6. **Use right tool.** Don't force small tool or attachment to do the job of a heavy duty tool.
7. **Wear proper apparel.** No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
8. **Use safety glasses** with most tools. Also face or dust mask if cutting operation is dusty.
9. **Don't abuse cord**—Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
10. **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.
11. **Don't overreach**—Keep proper footing and balance at all times.
12. **Maintain tools with care.** Keep tools sharp, at all times, and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
13. **Disconnect tools**—Disconnect the tool from the power supply when not in use, before servicing, when changing accessories such as blades, etc.
14. **Remove adjusting keys and wrenches.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
15. **Avoid accidental starting**—Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
16. **Outdoor use extension cords.** When tool is used outdoors, use only extension cords suitable for use outdoors and so marked.
17. **Do not operate** portable tools 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 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.

## MOTOR

Your Black & Decker tool is powered by a B&D-built motor. Be sure your power supply agrees with nameplating marking. **120 Volts 50/60 Hz** means **Alternating Current** (normal 120 volt, 60 cycle house current). Voltage variation of more than 10% will cause loss of power and over-heating. 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.

## 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.

**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.** Repair or replace damaged cords.

## EXTENSION CORD

When using the tool at a considerable distance from the power source, an extension cord of adequate size must be used for safety, and to prevent loss of power and overheating. Use the table below to determine minimum wire size required.

Before using cords, inspect them for loose or exposed wires and damaged insulation. Make any needed repairs or replacement before using your power tool.

Extension Cord Length Minimum Wire Size*	Up to 75 Ft.	100 Ft. to 125 Ft.	150 Ft. to 200 Ft.
120 Volt Tools .....	18	16	14
220 Volt Tools .....	18	18	16

\*American Wire Gauge

## LUBRICATION

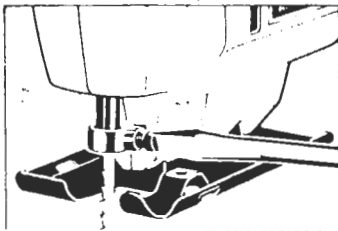
After every 15 hours of actual running time, place 2 drops of machine oil in hole located in the side of the tool near the front. It is recommended that, at least once a year, you take or send the tool to a B & D

Service Centre for a thorough cleaning, inspection and lubrication of the gear case.

### ATTACHING BLADES

Disconnect tool from extension cord or wall receptacle. Loosen screw at side of chuck with screwdriver. Insert blade in chuck as far as it will go (about 1/2"). Tighten screw until it is firm against blade.

Your B&D Dealer carries a wide selection of Jig Saw Blades for cutting many kinds of materials. These include wood, metal, plastics, fiberglass, formica, asbestos, slate, etc.

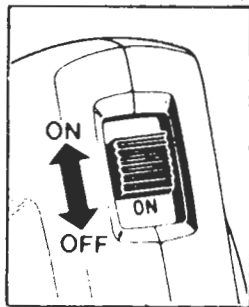


### 2 SPEED SWITCH 7514-04 & 7530-04

Push the switch button forward to turn the saw "on". As you push the button forward it will first click into a position exposing the letters "lo". This is the low speed position for cutting metals and plastics.

Pushing the button farther forward until it clicks again will expose the letters "hi". This is the high speed position for cutting wood and composition boards.

Pulling the switch button all the way back turns the tool "off".



### NO. 7580-04 VARIABLE SPEED JIG SAW:

Push Switch Button slowly forward to turn the tool "ON" (Figure 1) As soon as the motor starts it will be running at its lowest speed. The farther forward you advance the button, the faster the speed of the motor until it reaches maximum.

Use low speeds for cutting hard metals and plastics; medium speeds

FIGURE 1

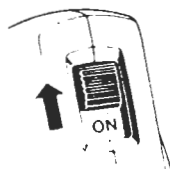
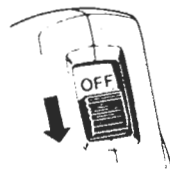


FIGURE 2



for soft metals; high speeds for wood and composition boards. As you pull the button backward (Figure 2), motor speed will decrease until the motor turns "OFF".

### BEVEL ADJUSTMENT

The Jig Saw Shoe may be tilted to permit bevel cutting at any angle for 0° to 45°. To change the angle of the shoe, loosen screw (see fig. 3) and tilt shoe to desired cutting angle with blade. Retighten screw. Cutting angles of 0° thru 45° for rough cuts are indicated on the left side, raised portion of shoe when viewed from rear of saw. A protractor is recommended when very accurate cuts are required.



FIGURE 3

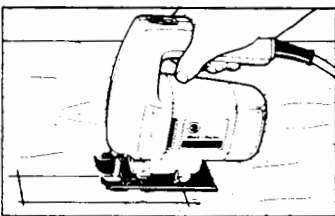
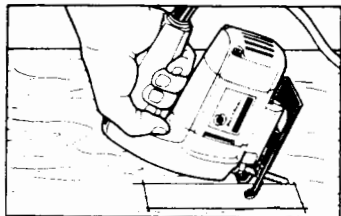
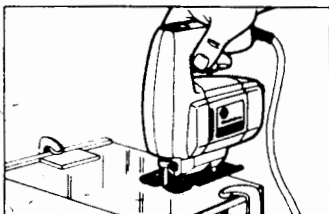
### WOOD CUTTING

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 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. Use a higher speed setting for cutting wood.

## METAL & 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 blade for ferrous metals (for those that have an iron content); and use a coarser blade for non-ferrous metals (those that do not have an iron content).

Use a lower speed setting for cutting metals, plastics and composition tile. When cutting Formica, place the surface side down and use a fine tooth hollow ground blade and a high speed setting.

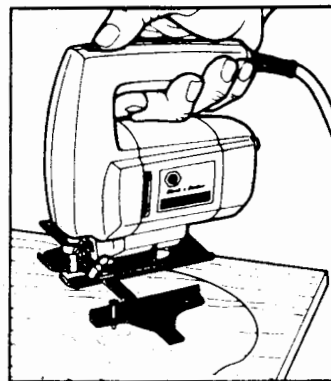


## POCKET CUTTING

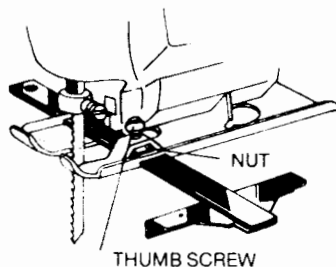
A pocket cut is an easy method of making an inside cut. The saw can be inserted directly into a panel or board without first drilling a lead or pilot hole. In pocket cutting measure the surface to be cut and mark clearly with a pencil. Next tip the saw forward until the front edge of the shoe sits firmly 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.

## RIP & CIRCLE CUTTING



CIRCLE CUTTING



Ripping and circle without a pencil line are easily done with the **No. U-2151 Accessory Rip Fence and Circle Guide**. (The attachment of the Accessory is explained in the drawing below). 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 centre of hole in cross bar is over centre 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 centre of circle to be cut. Using rip fence as a pivot arm, begin cutting circle.

The Nut and Thumb Screw shown 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 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 bar should be up.

## CLEANING

Use only mild soap and a damp cloth to clean the tool. Many household cleaners contain chemicals which could seriously damage the plastic. Also, do not use gasoline, turpentine, 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.

## IMPORTANT

To assure product **safety** and **reliability**, repairs, maintenance and adjustment (including brush inspection and replacement) should be performed by Black & Decker Service Centres or other qualified service organizations, always using Black & Decker replacement parts. When servicing Double-Insulated Tools, it is extremely important that **only identical replacement parts be used** and that **reassembly of tool is identical to the original assembly**.

## 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 JIG SAW BLADES

	DESCRIPTION	CAT. NO.	TEETH PER INCH
<b>ECONOMY BLADES FIT MOST POPULAR JIG SAWS, SABRE SAW BRANDS WITH 1/4" SHANK</b>			
	<b>Medium cut, set teeth.</b> 7 teeth per inch, 3" long, 1/4" wide, high carbon steel. Makes pocket cuts. Makes fast cuts in wood, plywood, composition boards, etc.	54368	7
	<b>Smooth cut, set teeth.</b> For smoother cuts in wood, plywood composition boards, etc. 10 teeth per inch, 3" long, 1/4" wide, high carbon steel. Makes pocket cuts.	54369	10
<b>FOR CUTTING WOOD, PLYWOOD, MASONITE, PLASTICS ETC.</b>			
	<b>Flush cutting,</b> cuts hard or soft wood over 1/4" thick. Blade material: High carbon steel. Set teeth for fast cutting.	U-1344	7
	<b>Scroll cut.</b> For cutting wood, plastic and plywood 1/4" to 1" thick. Set teeth and thin construction allows this blade to make intricate cuts and circles with radii as small as 1/8". Blade construction: High carbon steel. Straight shank.	U-1368	10
	<b>Smooth cut, taper ground teeth.</b> For fine finish scroll cutting in wood, plywood, Masonite, plastics, etc. Also for 1/8" to 1/2" soft aluminum, brass. 10 teeth per inch 4" long for extra depth of cut. High speed steel for extra life, 1/4" wide.	39754	10
	<b>Medium cut, taper ground teeth.</b> For faster, scroll cutting in wood, plywood, Masonite, etc. 6 teeth per inch, 4" long for extra depth of cut, high speed steel for extra life, 1/4" wide.	39755	6
	<b>Medium cut, taper ground teeth.</b> For fast production cutting. Handles wood and plywood up to 3" thick. Also cuts Masonite. Saws through a 2 x 4 at 45°. 6 teeth per inch, 4" long for extra depth of cut, high steel for extra life, 3/8" wide.	39756	6
	<b>Wood cutting, coarse.</b> Cuts most plastics and wood up to 4" thick. Special tooth design with extra large gullets provide extra chip clearance for fast cutting in thicker materials. Recommended for use with jig saws with 1" stroke and longer. Blade material: High carbon steel. 6" long.	75-171	3
	<b>Wood cutting, medium.</b> Makes fairly smooth cuts in wood up to 4" thick. Extra thick back provides greater resistance to breaking during intricate scroll-type cutting. Recommended for use with jig saws with 1" stroke and longer. Blade material: High carbon steel. 6" long.	75-170	7
	<b>Smooth cut, hollow ground teeth.</b> Faster smooth scroll cuts in wood up to 3/4" thick. Excellent for pocket cutting. 10 teeth per inch, 3" long, 1/4" wide, high carbon steel.	49492	10
	<b>Medium cut, hollow ground teeth.</b> Faster smooth scroll cuts in wood up to 3/4" thick. Excellent for pocket cutting. 7 teeth per inch, 3" long, 1/4" wide, high carbon steel.	49493	7
	<b>Coarse cut, hollow ground teeth.</b> Faster, smooth scroll cuts in wood up to 3/4" thick. Excellent for pocket cutting, 5 teeth per inch, 3" long, 1/4" wide, high carbon steel.	49494	5
	<b>Medium cut, hollow ground teeth.</b> Faster, smooth scroll cuts in wood up to plywood, composition boards, etc. 7 teeth per inch, 3" long, 1/4" wide, high carbon steel. Angle shank for faster cutting in wood, etc.	54370	7
<b>METAL CUTTING</b>			
	<b>Non-ferrous—coarse.</b> Cuts steel—16 gauge to 10 gauge. Cuts 3/32" to 3/16" aluminum, copper, brass. Cuts plastics, asbestos, Fiberglas, etc. 1/2" to 3/4" rigid conduit. 1/0 stranded cable and 3/16" buss bar. 14 teeth per inch, 3" long, 5/16" wide, tool steel.	49490	14
	<b>Ferrous—fine.</b> Cuts steel—22 gauge to 13 gauge. For cuts under 3/22" in aluminum, copper, brass. Cuts plastics, slate, Formica, Fiberglas. Also 1/2" to 3/4" thin wall conduit. 32 teeth per inch, 3" long, 5/16" wide, tool steel.	49491	32
	<b>Metal cutting.</b> For cutting ferrous (iron) metals, 1/8" to 1/4" thick and non-ferrous metals 1/16" to 1/8" thick. Blade material: M-2 high speed steel. Heat treated to spring temper hardness capable of cutting ferrous and non-ferrous metals. Straight shank.	75-156	18
	<b>Metal cutting.</b> For cutting ferrous (iron) metals 1/16" to 3/16" thick. Blade material: M-2 high speed steel. Heat treated to full hardness spring temper. Capable of cutting hard ferrous materials. Straight shank.	75-157	24