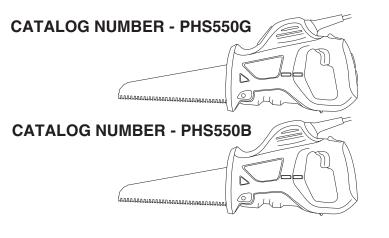
BLACK&DECKER®

Powered Hand Saw

INSTRUCTION MANUAL



SAVE THIS MANUAL FOR FUTURE REFERENCE.

SAFETY GUIDELINES - DEFINITIONS

It is important for you to read and understand this manual. The information it contains relates to protecting YOUR SAFETY and PREVENTING PROBLEMS. The symbols below are used to help you recognize this information.

- ${}^{ ilde{\Lambda}}$ DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
- ${}^{ extsf{M}}$ WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- ${}^{ ilde{\Lambda}}$ CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE: Used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

General Safety Rules

AWARNING: Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE The term "power tool" in the warnings refers to your mains-operated (cord-ed) power tool or battery-operated (cordless) power tool.

1) WORK AREA SAFETY

- a) Keep work area clean and well lit. Cluttered or dark areas invite accidents. b) 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. c) Keep children and bystanders away while operating a power tool. Distractions
- can cause you to lose control.

2) ELECTRICAL SAFETY

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

3) PERSONAL SAFETY

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence drugs, alcohol or medication. A moment of inattention while operating power

- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools. Check for misalignment or binding of moving parts, break-age of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5) SERVICE

a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

SPECIFIC SAFETY RULES

- Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- Use clamps or another practical way to secure and support the work piece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
- · Keep hands away from cutting area. Never reach underneath the material for any reason. Hold front of saw by grasping the contoured gripping area. Do not insert fingers or thumb into the vicinity of the reciprocating blade and blade clamp. Do not stabilize the saw by gripping the shoe.
- Keep blades sharp. Dull blades may cause the saw to swerve or stall under pressure.
- · Use extra caution when cutting overhead and pay particular attention to overhead wires which may be hidden from view. Anticipate the path of falling branches and debris ahead of time.
- · When cutting pipe or conduit ensure that they are free from water, electrical wiring, etc.
- \triangle 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.

- Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water. Allowing dust to get into your mouth, eyes, or lay on the skin may promote absorption of harmful chemicals.
- Δ WARNING: Use of this tool can generate and/or disperse dust, which may cause serious and permanent respiratory or other injury. Always use NIOSH/OSHA approved respiratory protection appropriate for the dust exposure. Direct particles away from face and body.
- ACAUTION: Wear appropriate hearing protection during use. Under some conditions and duration of use, noise from this product may contribute to hearing loss.
- ${}^{ rede W}$ WARNING: ALWAYS use safety glasses. Everyday eye glasses are NOT safety glasses. Also use face or dust mask if cutting operation is dusty. ALWAYS WEAR **CERTIFIED SAFETY EQUIPMENT:**
 - - ANSI Z87.1 eye protection (CAN/CSA Z94.3)
 ANSI S12.6 (S3.19) hearing protection
 - NIOSH/OSHA/MSHA respiratory protection

Symbols

The label on your tool may include the following symbols.

V	volts	A	amperes
Hz	hertz	W	watts
min	minutes	\sim	alternating current
	direct current	n _o	no load speed
□	Class II Construction	€	earthing terminal
∕!\	safety alert symbol	/min	revolutions or
			reciprocations per minute

FIRST AID MEASURES FOR GEL COMPONENTS (PHS550G ONLY)

If gel within the comfort grip becomes exposed and results in skin contact wash with soap and water; for eye contact, flush with flowing water. If swallowed, seek medical attention. Material Safety Data Sheet (MSDS) available from **1-800-544-6986**

EXTENSION CORD

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. The table below 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.

- tools may result in serious personal injury.
 b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, nonskid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/ or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury. Do not overreach. Keep proper footing and balance at all times. This enables bet-
- ter control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

4) POWER TOOL USE AND CARE

- a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired. c) Disconnect the plug from the power source and/or the battery pack from the
- power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

			Minimu	m Gage for	Cord Set	s
Volt	ts		Total Length of Cord in Feet			
120	V		0-25	26-50	51-100	101-150
			(0-7,6m)	(7,6-15,2m)	(15,2-30,4	m) (30,4-45,7m)
240	V		0-50	51-100	101-200	201-300
			(0-15,2m)	(15,2-30,4m) (30,4-60,9	m) (60,9-91,4m)
Am	pere	e Ratir	ng			
More Not more		nore	e American Wire Gage			
Tha	n	Than			•	
0	-	6	18	16	16	14
6	-	10	18	16	14	12
10	-	12	16	16	14	12
12	-	16	14	12	Not Recommended	

FUNCTIONAL DESCRIPTION

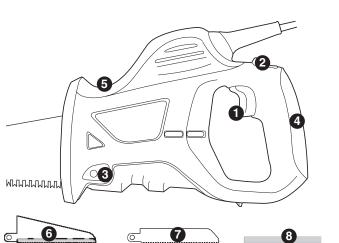
1. Variable Speed Switch

-
- 2. Lock-off button
- 3. Blade release
- 4. Soft grip

В

D

- 5. Second hand position
- 6. Large capacity blade
- 7. Metal cutting blade
- 8. Tooth Protector



RECOMMENDED MATERIALS

Recommended Materials Large Capacity Blade Soft wood Plastic soil pipe Metal Cutting Blade

Ferrous/non-ferrous metals

Problem
Unit will not start.

TROUBLESHOOTING Possible Cause Possible

Capacity

Up to 4 in. (102mm) x 4 in. (102mm)

Up to 4-7/8 in. (124mm)

Cord not plugged in.

Circuit fuse is blown.

Circuit breaker is tripped.

Possible Solution
 Plug tool into a working
outlet.
 Replace circuit fuse.
(If the product repeatedly
causes the circuit fuse to
blow, discontinue use
immediately and have it
serviced at a Black &
Decker service center or
authorized servicer.)
Reset circuit breaker.
(If the product repeatedly causes the circuit
breaker to trip,
discontinue use
immediately and have it
serviced at a Black &
Decker service center or
authorized servicer.)
 Have cord or switch
replaced at Black
& Decker Service Center
or Authorized Servicer.

Cord or switch is damaged.

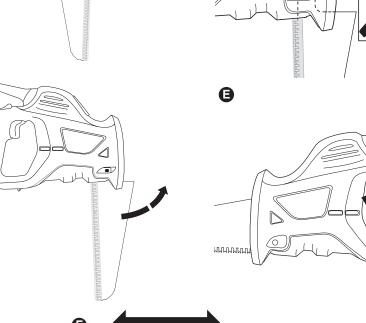
Use only mild soap and damp cloth to clean the tool. Many household cleaners contain chemicals which could seriously damage the plastic and gel components. Also do not use gasoline, turpentine, lacquer or paint thinners or similar products. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.

IMPORTANT: To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment should be performed by authorized service centers or other qualified service personnel, always using identical replacement parts.

ACCESSORIES

Recommended accessories for use with your tool are available from your local dealer or authorized service center.

WARNING: The use of any accessory not recommended for use with this tool could be hazardous.



MOTOR

Your tool is powered by a Black & Decker specified motor. Be sure your power supply agrees with the nameplate marking. A marking of 120 volts, 50/60 Hz or 120 volts, AC only means that the tool is designed to operate on normal 120 volt house current. Voltage decrease of more that 10% will cause loss of power and overheating. All Black & Decker tools are factory tested. If this tool does not run, check the power supply.

REMOVING & REFITTING THE BLADE

WARNING: Always ensure the unit is unplugged from the power supply when changing blades.

Your saw has a new blade clamping mechanism. Before using the saw familiarize yourself with the removal of the blade and refitting the blade securely in the saw. Always ensure the tooth protector is fitted when changing blades.

REMOVING THE BLADE (FIGURE B)

Ensure blade has cooled after use. Press and hold the rear of the blade release button fully, hold the back of the blade and rotate it through 90 degrees until the toothed side of the blade meets the housing. Slide the blade sideways off the retaining pin and remove from the saw.

FITTING A BLADE (FIGURES C,D)

Place the blade, with the tooth protector fitted, over the location pin. The blade teeth should be facing the handle. (Fig. C)

Note: To ensure that the blade fits properly, make sure the locking pin position mirrors that of the blade shank cut-out. The flat side of the locking pin should be parallel to the bottom of the saw as shown in the insert of Fig. C. **(Housing cover removed for clarity.)** If the locking pin is not parallel to the bottom of the saw, use a flat bladed screwdriver to rotate

the pin back to the proper starting position.

Rotate the blade through 90° until it is fully located in the slot and the location pin is in the locked position. (Fig. D)

To ensure the blade is securely fitted try to remove without pressing the blade release button. Remove the tooth protector, your saw is now ready for use.

OPERATING INSTRUCTIONS

VARIABLE SPEED TRIGGER SWITCH (FIGURE E)

Your saw is equipped with a variable speed trigger switch that allows you greater control over start of cut, rate of cut and breakthrough of cut.

To switch your saw on, push lock-off button (2) and squeeze the on/off variable speed trigger switch (1). To switch off, release the trigger, the unit will automatically lock-off.

USING TOOL (FIGURE F)

Hold tool with two hands as shown in Figure F. To obtain the best results from your saw, use the same backward and forward movement you would employ with a traditional hand saw. This will enable a quicker cleaner cut.

CUTTING METAL

Your saw can be used for cutting light gauge ferrous and non-ferrous metals such as copper, brass, aluminum, etc. with the specified blade. See recommended materials.

It is advisable when cutting thin sheet to clamp a backing sheet of soft wood or plywood to the work as this will enable you to obtain a cleaner cut. Both metal and wood backing are sawn together. Do not force the cutting blade into the metal as this will reduce the life of the blade and possibly damage the motor. Cutting thin metal will take longer than cutting even a relatively thick piece of wood, so do not be tempted to speed up the operation by forcing the saw. Only use the metal cutting blade for this purpose.