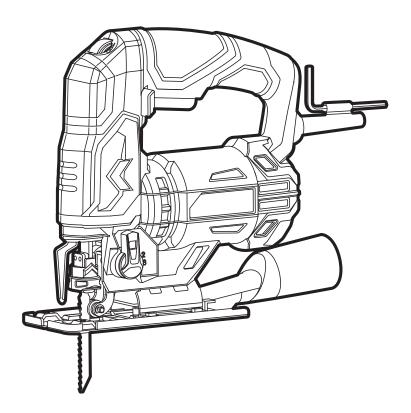
HAMMERHEAD



4.8 AMP JIG SAW

MODEL HAJS048



ΔΤΤΔ	СН	V∩I IR	RECEIPT	HERE
ALIA	υп	IUUN	NEGEIF I	HENE

Serial Number _____ Purchase Date _____



Questions, problems, missing parts? Before returning to your retailer, call our customer service department at 1-877-888-1880, 8:30 a.m. – 8:00 p.m. EST (Monday – Friday) & 10:00 a.m. – 6:00 p.m. EST (Saturday and Sunday).

TABLE OF CONTENTS

Product Specifications
Safety Information
Preparation7
Package Contents8
Operating Instructions9
Care and Maintenance
Extension Cords
Troubleshooting
Warranty

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, cement, and other masonry products.
- Arsenic and chromium from chemically-treated lumber.
- Your risk from these exposures varies, depending upon how often you do this type of work. To reduce your exposure to these chemicals:
- Work in a well-ventilated area.
- Work with approved safety equipment, such as 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 or eyes or to lie on the skin may promote absorption of harmful chemicals.



PRODUCT SPECIFICATIONS

COMPONENT	SPECIFICATIONS	
Power Input	120V~, 60Hz, 4.8A	
No-Load Speed (n ₀)	0-3000/min	
Stroke Length	3/4"	
Cutting Angle	45°	
Sawing capacity in wood	2-9/16"	
Sawing capacity in metal	3/8"	
Blade type	T-shank	

Please read and understand this entire manual before attempting to assemble or operate this product. If you have any questions regarding the product, please call Hammerhead customer service at 1-877-888-1880, 8:30 a.m. – 8:00 p.m. EST (Monday – Friday) & 10:00 a.m. – 6:00 p.m. EST (Saturday and Sunday).



WARNING

The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power-tool operation, always wear safety goggles or safety glasses with side shields and a full-face shield, when needed. We recommend using a wide vision safety mask over eyeglasses or standard safety glasses with shields. Always use eye protection marked to comply with ANSI Z87.1.



DANGER

People with electronic devices, such as pacemakers, should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pacemaker could cause interference or failure of the pacemaker.

Know the Tool

To operate this tool, carefully read this manual and all labels affixed to the jig saw before using it. Keep this manual available for future reference.

Some of the following symbols may be used on this jig saw. Please study them and their meaning. Proper interpretation of these symbols will allow you to operate the tool better and more safely.



SYMBOL	DEFINITION	SYMBOL	DEFINITION
V	Volts	n_0	No-load Speed
А	Amps	/min	Revolutions or reciprocations per minute (rpm)
Hz	Hertz		Class II tool
W	Watts	\sim	Alternating Current
A	Caution		Always wear safety goggles or safety glasses with side shields and a full face shield when operating this product.
	Read the instructions	Us Intertek	This symbol designates that this tool is listed by the Intertek Testing Services, to United States Standards.

IMPORTANT: This tool should only be serviced only by a qualified service technician.

IMPORANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS-This manual contains important safety and operating instructions for jig saw Model HAJS048.



A DANGER

To reduce the risk of fire or electric shock, carefully follow these operating instructions.

GENERAL POWER TOOL SAFETY WARNINGS



WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below 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 (corded) power tool or battery-operated (cordless) power tool.

A SAFETY INFORMATION

Work area safety

- Keep work area clean and well lit. Cluttered or 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 children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical safety

- 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.
- 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.
- 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.
- 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.
- 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.

Personal safety

- 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 of
 drugs, alcohol or medication. A moment of inattention while operating power tools may
 result in serious personal injury.
- Use personal protective equipment. Always wear eye protection. Protective
 equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection
 used for appropriate conditions will reduce personal injuries.
- 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 energising power tools that have
 the switch on invites accidents.
- 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.

A SAFETY INFORMATION

- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- 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 dustrelated hazards.
- Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

Power tool use and care

- 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.
- 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.
- Disconnect the plug from the power source and/or remove the battery pack, if detachable, 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.
- 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.
- Maintain power tools and accessories. Check for misalignment or binding of
 moving parts, breakage 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.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- 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.



Keep handles and grasping surfaces dry, clean and free from oil and grease.
 Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

Service

 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.

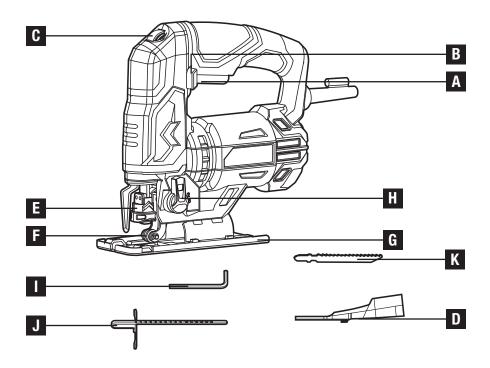
SAFETY WARNINGS FOR JIGSAWS

- Hold the 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 workpiece to a stable platform. Holding the workpiece by hand or against your body leaves it unstable and may lead to loss of control.

PREPARATION

Before attempting to use the Jig Saw, familiarize yourself with all of its operating features and safety requirements.

PACKAGE CONTENTS



PARTS	DESCRIPTION
А	ON/OFF trigger switch
В	Lock-on button
С	Speed controller
D	Dust extraction tube
E	Tool-less blade clamp
F	Blade guide
G	Shoe plate
Н	Pendulum lever
I	Hex key
K	Wood cutting blade 2pc

OPERATING INSTRUCTIONS

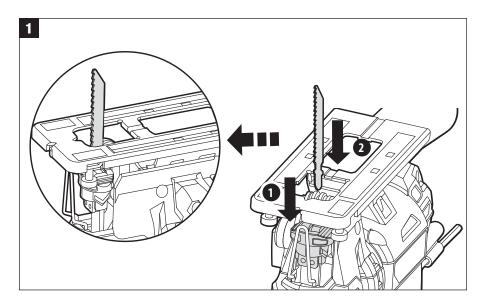
1. Blade Installation

WARNING: Always ensure that the jig saw is switched off and plug is removed from the power point before making any adjustment.

- a) Pull the tool-less blade clamp backwards and hold it.
- b) Place the saw blade as far as it will go, ensuring that the blade rear edge is located and supported by the blade roller guide.
- c) Release the tool-less blade clamp.
- d) Pull down on the blade to verify that the blade is securely locked in place before using it to cut any materials

CAUTION: The blade roller guide supports the blade when cutting and must at all times rest against the back edge of the blade. It should rotate freely.

e) To remove the blade, push down the tool-less blade clamp and remove the blade.



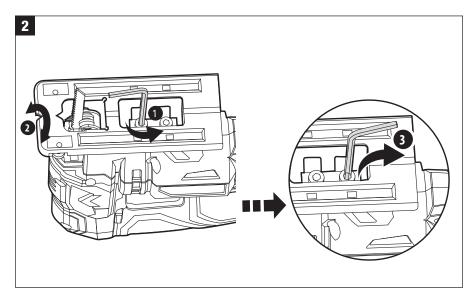
2. Angle adjustment

The jig saw shoe plate can be angled to enable bevel or chamfer cuts.

WARNING: Always ensure the tool is switched off and the plug is removed before making any adjustments or maintenance procedures.

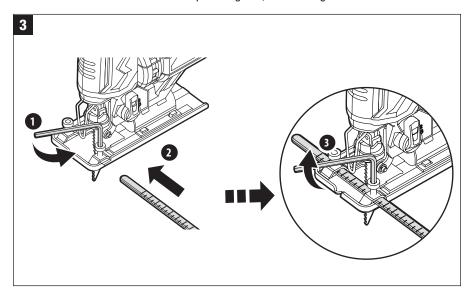
- a) Turn the product upside down.
- b) Use the hex key to loosen the hex screws securing the blade guide assembly and the shoe plate.
- c) Move the base plate backwards so that the teeth on the plate no longer engage with the retaining teeth and the shoe can be tilted to the left or right. Choose $\pm 45^{\circ}$, $\pm 30^{\circ}$, $\pm 15^{\circ}$ or 0° .
- d) Push the shoe plate forwards so that the teeth on the plate mesh with the retaining teeth.
- e) Re-tighten the hex screws.

NOTE: For accurate work it is necessary to do a practice cut first. Check the cut and reset the angle until the correct cut is achieved. The blade guide supports the blade when cutting and must always rest against the back of the blade.



3. Parallel guide

The parallel guide fits into the shoe plate and is locked in place by the parallel guide locking screws. It is used to guide the jigsaw along a straight line, which can be an edge of a workpiece or a piece of straight timber clamped to the workpiece. Use the hex key to loosen the two screws and insert the parallel guide, and then tighten the two screws.

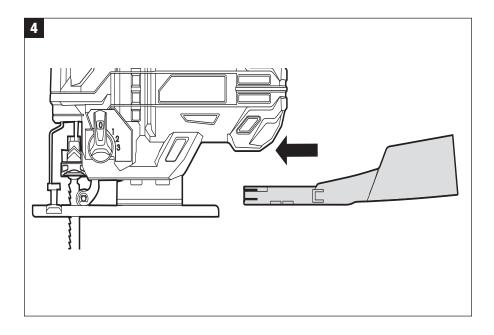


4. Dust extraction

CAUTION: Attach a dust extraction device when using this product to saw wood in order to keep the working area clean! Wear a dust mask when operating this product! Dust can be harmful to health! Especially dust and chips of wood that has been treated, e.g. with wood preservative or a stain!

- a) The dust extraction tube may be inserted in the rear of the base plate to allow a dust extraction system or a suitable vacuum cleaner to be connected to the tool in order to remove dust whilst the tool is in use.
- b) Attach a proper dust extraction device, e.g. A suitable vacuum cleaner, to the dust extraction tube.

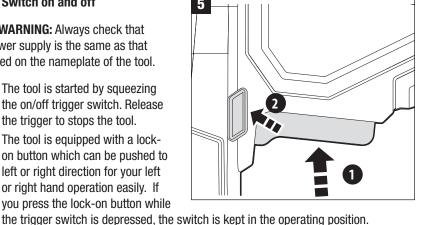
WARNING: Do not use a dust extraction system or a vacuum cleaner when cutting metal. Sparks may ignite residual wood dust.



5. Switch on and off

WARNING: Always check that the power supply is the same as that indicated on the nameplate of the tool.

- a) The tool is started by squeezing the on/off trigger switch. Release the trigger to stops the tool.
- b) The tool is equipped with a lockon button which can be pushed to left or right direction for your left or right hand operation easily. If you press the lock-on button while



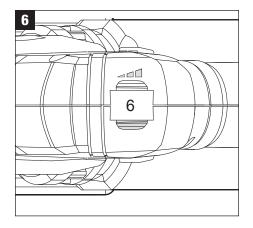
c) To release the lock on button, press and release the trigger switch.

WARNING: Allow the blade to come to a complete standstill before setting the jig saw down.

d) The lock-on button allows the operator to keep the jigsaw motor running without continuously pressing the switch. It is useful when operating the tool for extended periods.

6. Speed controller

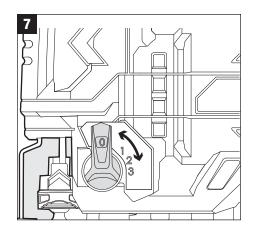
Adjusting the speed to suit the application enhances cutting performance and saves the blade from undue wear. To determine optimum cutting speed first perform test cuts on offcuts of the workpiece to be cut. Rotate the speed controller. To set the blade speed. Position "1" denotes the lowest speed. Position "6" denotes the highest speed.



7. Pendulum lever

The pendulum lever has four positions. The first position selects normal cutting without pendulum action. The positions (1, 2 and3) cause the blade to swing slightly backwards and forwards as it cuts. This pendulum action increases the efficiency of cutting, set the pendulum lever to one of the three settings (1, 2 or 3) according to degree of pendulum action required.

Experiment on a piece of scrap material to determine the optimum pendulum action setting for the material of the work piece.



Recommendations (non-committal)

- No pendulum action for: cutting sheet metal, plastic sheets; very fine cutting edges
- Low pendulum action for: cutting hard wood, plastics; fine cutting edges on wood
- Max. pendulum action for: cutting wood; if no fine cutting edges required

8. General cutting

WARNING: Before cutting, secure and support the workpiece to a stable platform by using clamps or another practical way.

Ensure that the blade is the correct type for the application and that the length extends through the workpiece on the upstroke of the cut.

- a) Determine how the jigsaw is best configured for the job and make the required adjustment.
- b) Switch on the jig saw and allow the blade to reach maximum speed.
- c) Slowly guide the jig saw forward, building up speed as you go, keeping the shoe plate at against the workpiece.

NOTE: Do not force the jig saw. Use only enough pressure to keep the blade cutting. Do not force the cutting; allow the blade and the saw to do the work.

OPERATING INSTRUCTIONS

9. Metal cutting

- a) When cutting metal ALWAYS clamp down the metal workpiece.
- Be extremely careful to move the saw very slowly as you cut. Use slower speeds.
 DO NOT twist, bend or force the blade.
- c) When cutting metals, suitable cooling/cutting oil must be used. Squirt the lubricant onto the blade or workpiece at regular intervals during cutting in order to reduce wear on the blade.
- d) If the saw jumps or bounces as you cut, change to a blade with finer teeth.
- e) If the blade begins to clog when cutting soft metal, change to a blade with coarser teeth.
- f) For easier cutting, lubricate the blade with a stick of cutting wax (if available) or cutting oil when cutting steel.
- g) Thin metal should be sandwiched between two pieces of wood or tightly clamped on a single piece of wood (wood on top of the metal). Draw the cut lines or design on the top piece of wood.
- h) When cutting aluminum extrusion or angle iron, clamp the work in a bench vice and saw close to the vice jaws.
- When sawing tubing with a diameter larger than the blade is deep, cut through the wall of the tubing and then insert the blade into the cut, rotating the tube as you saw.

CARE AND MAINTENANCE

WARNING: Always disconnect the device before performing any adjustment or maintenance operation. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent in order to avoid a hazard.

Disconnect from the power supply immediately if the supply cord is damaged. Take care not to expose this tool to the rain.

If the carbon brushes need to be replaced, have this done by a qualified repair person (always replace the two brushes at the same time)

1. Cleaning

Avoid using solvents when cleaning plastic parts. Most plastic parts are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt. carbon dust. etc.

2. Lubrication

All the bearings in this tool are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions, therefore no further lubrication is required.

EXTENSION CORDS

WARNING: If an extension cord is necessary, a cord with adequate size conductors that is capable of carrying the current necessary for your tool must be used. This will prevent excessive voltage drop, loss of power or overheating. Grounded tools must use 3-wire extension cords that have 3-prong plugs and receptacles.

NOTICE: The smaller the gauge number, the heavier the cord.

RECOMMENDED SIZES OF EXTENSION CORDS 120 VOLT ALTERNATING CURRENT TOOLS

Tool's Ampere Rating	Cord Size in A.W.G	Wire sizes in mm ²	
	Cord length in feet	Cord length in meters	
	25 50 100 150	15 30 60 120	
3-6	18 16 16 14	0.75 0.75 1.5 2.5	
6-8	18 16 14 12	0.75 1.0 2.5 4.0	
8-10	18 16 14 12	0.75 1.0 2.5 4.0	
10-12	16 16 14 12	1.0 2.5 4.0 -	
12-16	14 12		

TROUBLESHOOTING

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore, check the product using this section. In most cases the problem can be solved quickly.

WARNING: Only perform the steps described within these instructions! All further inspection, maintenance and repair work must be performed by an authorised service centre or a similarly qualified specialist if you cannot solve the problem yourself!

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
	Not connected to power supply.	Connect to power supply.
Product does not start.	Power cord or plug is defective.	Have the tool serviced by an Authorized Service Center.
	Other electrical defect to the product.	Have the tool serviced by an Authorized Service Center.
	Extension cord not suitable for operation with this product	Use a proper extension cord
Product does not reach full power.	Power source (e.g. generator) has too low voltage	Connect to another power source
	Air vents are blocked.	Clean the air vents
	Product overload	Remove the tool from the workpiece then switch on again
	Blade is worn	Replace with a new one
Unsatisfactory result	Blade not suitable for workpiece material.	Use proper blade.

WARRANTY

This Jig saw is warranted to the original purchaser from the original purchase date for 24 Months, Hammerhead consumer portable power tool models will be free from defects in material or workmanship for a period of ninety days if the tool is used for professional use. Please retain your receipt.

This jig saw is warranted to the original user to be free from defects in material and workmanship. If you believe that the jig saw is defective at any time during the specified warranty period, call HAMMERHEAD support at 1-877-888-1880 to speak with a customer service agent. This warranty does not cover: (1) Part failure due to normal wear or tool abuse; (2) any parts have been altered or modified by anyone other than an authorized HAMMERHEAD personnel.

This warranty excludes bits, bulbs and accessories. This warranty gives you specific legal rights, and you may also have other rights that vary from state.

© Chervon North America, 1203 E. Warrenville Rd, Naperville, IL 60563.