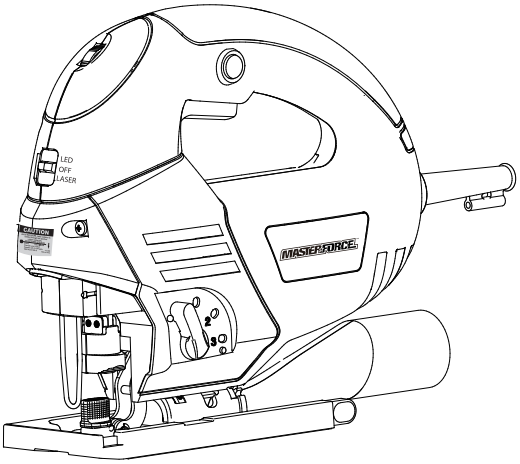
Operator's Manual

Jig Saw

Model No. 241-0790



IMPORTANT :

⚠**WARNING!** Carefully read this operating manual before using your new tool. Pay close attention to all **Safety Instructions, Warnings** and **Caution sections.** Use your tool properly and only for its intended use.

⚠Safety symbols in this manual are used to flag possible dangers. The safety symbols and their explanations require your full understanding. The safety warnings do not by themselves eliminate any danger, nor are they substitute for proper accident prevention measures.

⚠This Safety Alert Symbol indicates caution, warning, or danger. Failure to obey a safety precaution can result in serious injury to yourself or others. To reduce the risk of injury, fire, or electric shock, always follow the safety precautions .

TABLE OF CONTENTS

Specification .....page 2
Rules for Safet Operation.....page 3
Assembly and adjustment.....page 9
Operation .....page 13
Maintenance.....page 16
Accessories.....page 17
Warranty. . .....page 17

Specification

Motor speed	800-3000 SPM (no load)
Max cutting capacity	3 11/32" (85mm) on wood 5/16" (8mm) on steel
Cutting angle rang	0-45°
Blade type	"T" and "U" shank
Cord length	8'
Net Weight	5lb 1oz
Laser class	Class IIIa
Wavelength	650nm
Output power	⩽1mW

SAFETY SYMBOLS FOR UOUR TOOL
The label on your tool may include thefollowing symbols
V .....Volts
A .....Amps
Hz .....Hertz
W .....Watts
min .....minutes
~ .....Alternating current
⎓ .....Direct current
n_o.....No load speed
⧈ .....Class II construction,Double insulated
.../min .....Revolutions or Strokes per minute
⚠ .....Indicates danger,warning or caution.
It means attention!Your safety is involved

RULES FOR SAFE OPERATION

KNOW YOUR TOOL

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

IMPORTANT

This tool should only be serviced by a qualified service technician. For more information, call the toll free helpline at 1-866-917-4374.

GENERAL SAFETY RULES FOR ALL POWER TOOLS

⚠**WARNING! Read all safety warnings and 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 (corded) 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 residual current device (RCD) protected supply. Use of an RCD 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 tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid 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 energising in 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.

e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery 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 these devices 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 marking any adjustments, changing accessories, or

storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

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, 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.

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.

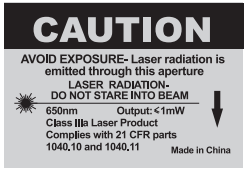
5)Service

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.

SAFETY INSTRUCTIONS FOR LASERS

This Jig saw has a built-in laser light. The laser is a Class IIIa and emits output power of a maximum 1mW and 650nm wavelengths. These lasers do not normally present an optical hazard. However, do not stare at the beam as this can cause flash blindness.

The following label is on your tool. It indicates the point from which the saw emits the laser light. Be aware of the laser light location when using. Always make sure that any bystanders in the vicinity of use are made aware of the dangers of looking directly into the laser.



⚠**WARNING: Laser light. Laser radiation.** Avoid Direct Eye Exposure. Do not stare into beam. Only turn laser beam on when the saw is on the workpiece. Class IIIa laser.

⚠**WARNING!** Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

⚠**WARNING!** The use of optical instruments such as, but not limited to, telescopes or transits to view the laser beam will increase eye hazard.

- ✓ **Do not remove or deface any product labels. Removing product labels increases the risk of exposure to laser radiation.**
- ✓ **The laser beam can be harmful to the eyes. Always** avoid direct eye exposure. Do not look directly into the laser beam output aperture during operation. Do not project the laser beam directly into the eyes of others. Turn laser on only when making cuts.
- ✓ The laser on the jig saw is not a toy. Always keep out of the reach of children. The laser light emitted from this device should never be directed towards any person for any reason.
- ✓ **Be sure** the laser beam is aimed at a workpiece (such as wood or rough surface) that does not have a reflective surface.
- ✓ **Do not** use on surfaces such as sheet steel that have a shiny, reflective surface. The shiny surface could reflect the beam back at the operator. Be aware that laser light reflected off of a mirror or any other reflective surfaces can also be dangerous.
- ✓ **Always** turn the laser beam off when not in use. Leaving the laser turned on increases the risk of someone inadvertently staring into the laser's beam.

⚠**CAUTION!** Always follow only the instructions contained in this manual when using this laser. Use of this feature in any manner other than that recommended this manual may result in a hazardous radiation exposure.

- ✓ **Do not** attempt to modify the performance of this laser device in any way. This may result in a dangerous exposure to laser radiation.
- ✓ **Always** use only the accessories that are recommended by manufacturer for use with this model. Use of accessories that have been designed for use with other laser tools could result in serious injury.

ADDITIONAL SAFETY INSTRUCTIONS FOR OPERATION

⚠**DANGER!** Keep hands away from the cutting area and the blade. Keep your second hand on the auxiliary handle or motor housing. If both hands are holding the saw, the blade cannot cut them.

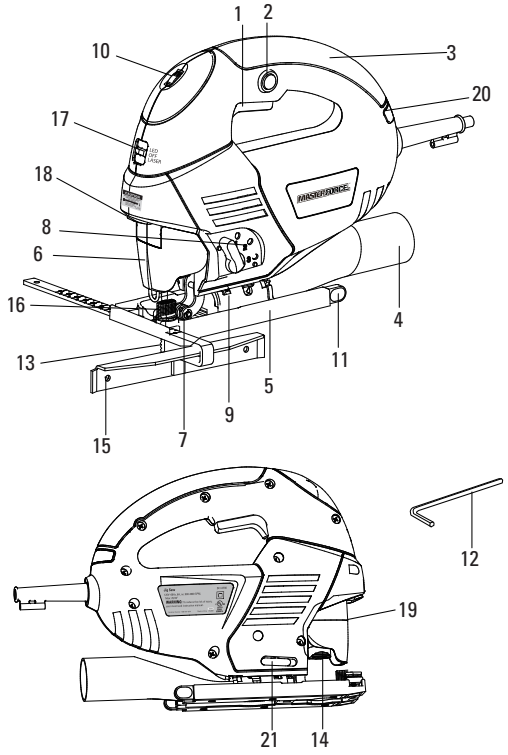
⚠**CAUTION!** Blades coast after saw is switched off.

- ✓ **Hold power tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make the exposed metal parts of the tool "live" and shock the operator.
- ✓ **Use clamps or another practical way to secure and support the workpiece to stable platform.** Hold the work by hand or against your body leaves it unstable and may lead to loss of control.
- ✓ **Keep** your body positioned to either side of the saw blade, but not in line with the saw blade.
- ✓ **Do not** reach underneath the work. The blade guard cannot protect you from the blade beneath the work.
- ✓ **Do not** touch the blade or the workpiece immediately after operation; they may be extremely hot and could burn your skin.
- ✓ **Do not** cut an oversized workpiece.
- ✓ **Check** for the proper clearance under the workpiece before cutting so that the blade will not strike the workbench or material under the workpiece.
- ✓ **Make sure** the blade is not contacting the workpiece before the switch is turned on.
- ✓ When ripping, **always use** a rip fence or straight edge guide.This improves the accuracy of the cut and reduces the chance of the blade binding.
- ✓ **Never** cut more than one piece at a time. Do not stack more than one workpiece on the worktable at a time.
- ✓ **Avoid awkward operations** and hand positions wherea sudden slip could cause your hand to move into the blade.
- ✓ **Never** reach into the cutting path of the blade.
- ✓ Blade-guide rollers must support the blade when cutting. The rollers must rest against the back edge of blade. The only cutting operation when rollers do not support the blade is the scrolling mode. When scrolling the blade must swivel as it is guided to follow scroll patterns. Always move the base back and blade guide up and back away from blade in scrolling mode

KNOW YOUR JIG SAW

Before attempting to use this jig saw, become familiar with all of its operating features and safety requirements. For optimum performance and safety, read the following operating instructions carefully before using the saw.

⚠**WARNING!** Do not allow familiarity with the jig saw to cause a lack of alertness. A fraction of a second of carelessness is enough to cause severe injury.



Parts list

1. Trigger switch
2. Lock-on button
3. Soft grip handle
4. Dust extraction adaptor
5. Shoe plate
6. Blade guard
7. Blade roller guide

8. Orbit control lever
9. Cutting angle guide
10. Variable speed dial
11. Blade storage
12. Hex key
13. Blade
14. Tool-less blade change catch
15. Parallel guide
16. Parallel guide lock screw
17. Laser /work light on/off switch
18. Laser aperture
19. LED worklight
20. Power on indicator
21. Vacuum/blower selector

ASSEMBLY AND ADJUSTMENT

FITTING AND REMOVING THE BLADE

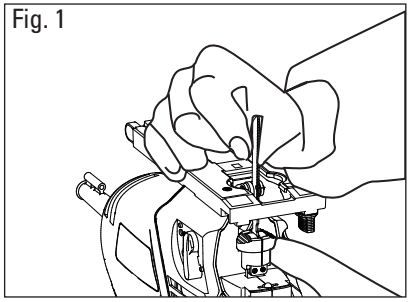
⚠**WARNING!** Always ensure that the saw is switched off and the plug is removed from the power source before making any adjustments or changing a blade.

Flip up the blade guard to afford better access to the blade clamp.

Turn the jig saw upside down and using your thumb and forefinger, push down the tool-less blade change catch (14).

Slide the 'U' or 'T' type blade into the locating hole with the teeth pointing forward, ensuring that the blade rear edge is located and supported by the blade roller guide (7). (Fig.1)

Fig. 1



Release the tool-less blade change catch (14) to lock the blade in position, pull on the blade to ensure that it is fully locked in position.

Plug into the power source and run the saw under no-load to check that it runs smoothly before using it to cut any materials.

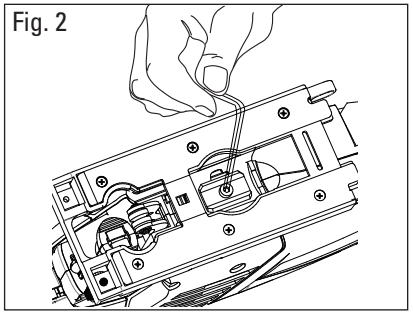
⚠**CAUTION!** The blade roller guide (7) supports the blade when cutting and must at all times rest against the back edge of the blade. It should rotate freely.

ADJUSTING THE SHOE FOR ANGULAR CUTTING

CAUTION! Always ensure that the jigsaw is switched off and the plug is removed from the power source before making any adjustments.

Loosen the hex screw located on the underside of the tool using the hex key (12). (Fig.2)

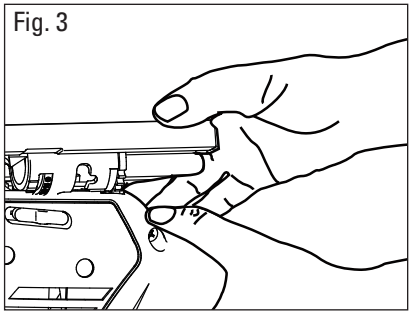
Fig. 2



Move the shoe plate (5) backward so that the teeth on the plate no longer engage with the retaining teeth and the shoe can be tilted to the left and right.

If the required angle is 15°, 30° or 45° to the left or right or 0°, push the shoe plate forward so that the teeth on the plate mesh with the retaining teeth (Fig. 3)

Fig. 3



Retighten the-hex screw.

The angle selected can be read on the cutting angle guide (9) on the shoe plate (5).

For accurate work it may be necessary to make a trial cut, measure the work and reset the angle with the shoe plate moved a little towards the rear so that the metal prongs do not mesh with the retaining teeth.

Repeat the trial cut and reset the angle setting until the correct setting is achieved.

PARALLEL GUIDE

The parallel guide (15) fits into the shoe plate (5) and is locked in place by the parallel guide lock screw (16). (Fig.4)

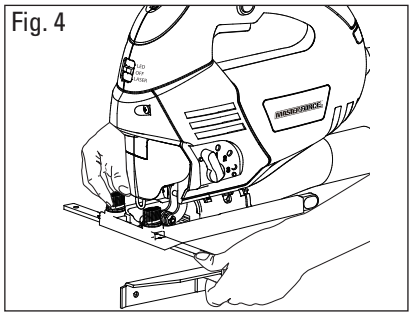
Use the parallel guide to guide the jigsaw along a straight line, which can be an edge of a workpiece or a piece of straight timber clamped to the workpiece.

By changing the position of the guide and using the same straight edge as a

guide, it is possible to quickly and easily make parallel cuts in the workpiece.

NOTE: When adjusting the cutting angle, you can move the parallel guide lock screw to the left or right.

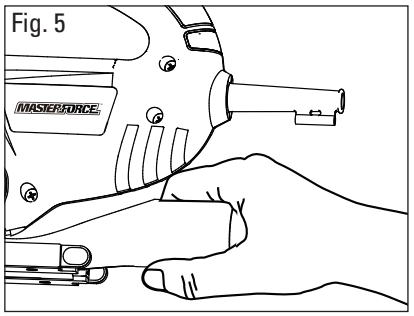
Fig. 4



DUST EXTRACTION

To improve dust extraction from the working area, insert the dust extraction adaptor (4) to the rear of the shoe plate, and then connect to a dust extraction system or a suitable vacuum cleaner. (Fig.5)

Fig. 5



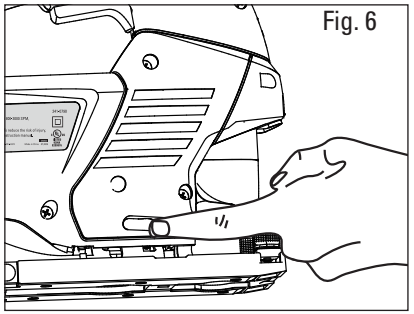
WARNING: Do not use a dust extraction system or a vacuum cleaner when cutting metal. Sparks may ignite residual wood dust.

VACUUM AND BLOWER

Slide the vacuum /blower selector (21) back to blow dust and chips away from the cutting area

Slide the selector forward while connected to a dust extraction system or household vacuum. (Fig.6)

Fig. 6



ORBIT ADJUSTMENT

This jigsaw has orbital action whereby the blade roller guide (7) moves back and forth to make the blade swing slightly as it cuts.

Orbit action increases the speed of cut but may result in a rougher finish to the cut in some materials.

Set the orbit control lever (8) to one of the four settings according to the degree of orbit action required. (Fig. 7)

0- No orbital action

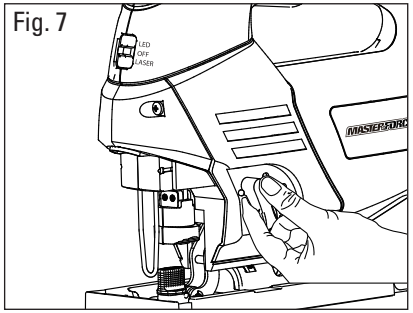
1- Minimal orbital action

2- Medium orbital action

3- Maximum orbital action for the most aggressive cutting:for quickly cutting plywood and soft material.

Experiment on a piece of scrap material to determine the optimum orbit action setting.

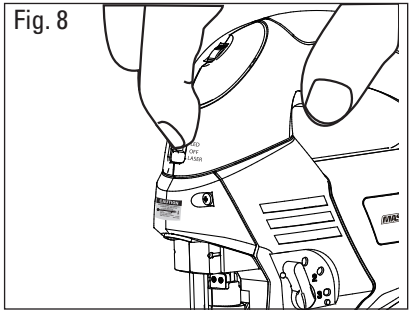
Fig. 7



SWITCHING LASER/WORK LIGHT ON AND OFF

This jigsaw is fitted with two forms of lighting to assist in maintaining accurate alignment with the cut line. Both can be switched on and off using combined laser and work light on/off switch (17). (Fig.8)

Fig. 8



TURN ON THE LED WORK LIGHT

Move the combined switch to the top position to activate the work light.

The LED work light produces broader lighting and is better used in lower lit conditions.

The mid position switches off the work light.

TURN ON THE LASER

Move the combined switch to the bottom position to activate the laser.

Use the laser to assist in aligning the blade with the cut line during operation

The mid position switches it off.

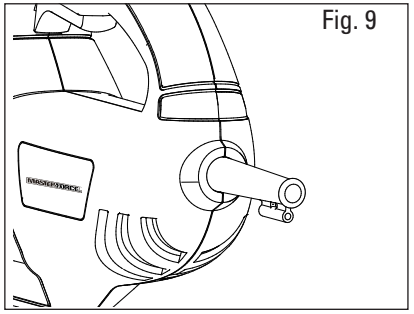
USING THE LASER SYSTEM

⚠**WARNING!** Before proceeding to use the laser line system, ensure that the Additional Safety Rules for Laser Lights section is read and fully understood.

1. Always ensure the laser beam is aimed at a sturdy workpiece without reflective surfaces, wood or rough coated surfaces are acceptable. Bright shiny reflective sheet steel or the like is not suitable for laser use as the reflective surface could direct the beam back at the operator.

2. Mark the line of the cut on the workpiece.
3. Adjust the orbit control level, bevel angle and speed as required.
4. Rest the front edge of the base on the workpiece.
5. Switch on the laser beam using the laser/work light on/off switch.
6. Align the beam with the line on the workpiece.
7. Start the motor by squeezing the trigger switch.
8. Always allow the blade to reach full speed before you begin to cut into the work piece.
9. Slowly push the saw forward, keeping the red laser light beam on the line of cut.
10. After completing your cut, release the trigger switch and allow the blade to come to a complete stop. Do not remove the saw from the workpiece while the blade is moving.
11. Switch off the laser beam on completion of the cut.

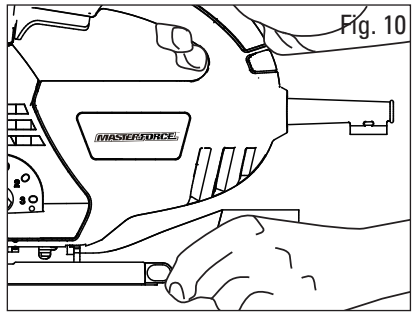
Fig. 9



LIVE TOOL INDICATOR LIGHT (Fig.9)

The tool has a "POWER ON INDICATOR" light. This light is always on when the tool is plugged into a power source.

Fig. 10

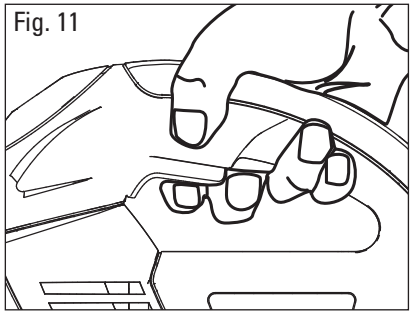


BLADE STORAGE (Fig.10)

A convenient feature on the saw is the blade storage compartment (11) located on the shoe of the saw.

To open: pull the blade storage cover out. To close: push the cover in with your thumb or finger.

Fig. 11



OPERATION

SWITCHING ON AND OFF (Fig.11)

Connect the plug to the power source.

Start the tool by squeezing the on/off trigger switch (1).

Release the trigger switch (1) to stop the tool.

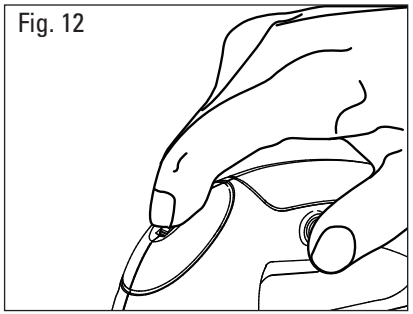
If you press the lock-on button (2) while the trigger switch is depressed, the switch is kept in the operating position.

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

⚠**CAUTION:** Allow the blade to come to a complete standstill before setting the jigsaw down.

ADJUSTING THE CUTTING SPEED (Fig.12)

Fig. 12



The variable speed feature of this jigsaw enhances the cutting performance and saves the blade from undue wear.

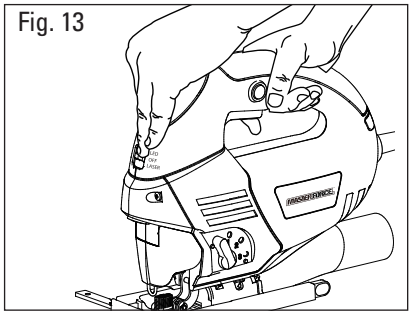
The variable speed dial (10) is used to set the speed of the blade.

The speed should be adapted to the material being cut. Use your thumb to turn the dial forward to increase the speed and backward to decrease it. Determine the optimum speed by making a trial cut in a scrap piece of material.Position"1" denotes the lowest speed. Position"6" denotes the highest speed.

MAKING A CUT

Place the shoe on the work piece without the saw blade contacting the work piece.

Fig. 13



Switch on the jigsaw and allow the blade to reach maximum speed.

Use both hands, slowly guide the jigsaw forward into the workpiece, keeping the shoe plate (5) flat against the workpiece.

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

USING EDGE GUIDE (Fig.13)

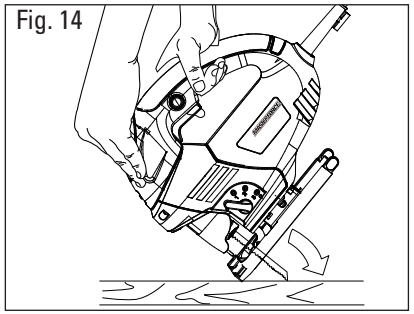
The edge guide (included) is used for straight cutting:

⚠**WARNING!** always unplug the saw from the power source before making any adjustment or attaching accessories.

1. Insert the bar of the edge guide through the slots in the base of the jig saw. It can be inserted from either side of the base, with the edge guide facing down.
2. Screw the edge guide locking knob into the threaded hole in the base to tighten the edge guide bar in place.
3. Measure the distance from the edge of the workpiece to the line-of-cut. Slide the edge guide to this desired distance and then tighten the locking knob to secure edge guide in place.

PLUNGE CUTTING (Fig.14)

Fig. 14



Plunge cutting is useful and time-saving for making rough openings in soft materials. It makes it unnecessary to drill a hole for an inside or pocket cut.

1. Draw lines for the opening you want to cut.
2. Hold saw firmly and tilt it forward so the toe of the saw foot rests on the workpiece.
3. Make sure that the blade is well clear of the workpiece.
4. Start the saw and then gradually lower the blade into the workpiece, firmly holding the toe of the saw base to prevent side wobble.
5. Slowly pivot the saw downward like a hinge until the blade cuts through and the base rests flat on the workpiece.
6. Begin sawing in the usual manner along the cut line.

⚠**WARNING!** Do not use a scroll blade for plunger cutting.

⚠**IMPORTANT!** Do not try to plunge cut into hard materials, such as hardwoods like oak or maple, or metal such as steel.

MAINTENANCE

⚠**WARNING!** Always ensure that the saw is switched off and the plug is removed from the power source before making any adjustments or maintenance.

Keep the air vents unclogged and clean at all times.

Regularly check to see if any dust or foreign matter has entered the vents near the motor and around the trigger switch. Use a soft brush to remove any accumulated dust. Wear safety glasses to protect your eyes whilst cleaning.

Lubricate the roller guide (7) from time to time with a drop of oil. It will extend the life of the roller.

If the body of the saw needs cleaning, wipe it with a soft damp cloth. A mild detergent can be used but nothing like alcohol, petrol or other cleaning agent.

Never use caustic agents to clean plastic parts.

⚠**CAUTION!** Water must never come into contact with the jigsaw.

GENERAL INSPECTION

Regularly check that all the fixing screws are tight. They may vibrate loose over time.

The supply cord of the tool and any extension cord used should be checked frequently for damage. Replace the extension cord if necessary. If the supply cord needs replacing, the task must be carried out by the manufacturer, the manufacturer's agent, or an authorised service centre in order to avoid a

safety hazard.

ACCESSORIES

Adapter……..1pc

Hex key…….....……1pc

Edge guide…….....……1pc

Wood blades…….....……2pc

Metal blade……..……1pc

WARRANTY

If, during normal use, this MASTERFORCE™ power tool breaks or fails due to a defect in material or workmanship within three years from the date of original purchase, simply bring this tool and its sales receipt back to your nearest Menards® retail store for a free equivalent replacement within those three years.

The warranty:

(1) excludes expendable parts including but not limited to blades, bits, light bulbs, and/or batteries;

(2) shall be void if this tool is used for commercial or/and rental purposes; and

(3) does not cover any losses, injuries to persons/properties, or costs. This warranty does give you specific legal rights and you may have other rights, which vary from state to state.

*SAVE YOUR RECEIPTS. Your warranty is void without them. For help, please call to our customer center, toll free number: 1-866-917-4374.