

**GMC**<sup>®</sup>

**GLOBAL MACHINERY COMPANY**

**INSTRUCTION MANUAL**

**620W**

**Variable Speed Jigsaw  
with LightSabre**



**2** YEAR  
REPLACEMENT  
WARRANTY

**30** DAY  
SATISFACTION  
GUARANTEE

• London • Melbourne • Perth • Taipei • Verona  
• Hong Kong • New York • Auckland • Paris

**LS620SR**  
020919 LS620LSR E09

# Contents

<b>Introduction</b>	<b>3</b>
<b>Environmental protection</b>	<b>3</b>
<b>Symbols</b>	<b>3</b>
<b>Specifications</b>	<b>3</b>
<b>Safety rules for laser lights</b>	<b>3</b>
<b>General safety instructions</b>	<b>4</b>
<b>Additional safety rules for jigsaws</b>	<b>5</b>
<b>Unpacking</b>	<b>6</b>
<b>Know your product</b>	<b>7</b>
<b>Adjusting the shoe for angular cutting</b>	<b>8</b>
<b>Dust extraction</b>	<b>8</b>
<b>Switching on and off</b>	<b>8</b>
<b>Adjusting the cutting speed</b>	<b>8</b>
<b>Making a cut</b>	<b>9</b>
<b>Pocket and round cutting</b>	<b>9</b>
<b>Pocket cutting</b>	<b>9</b>
<b>Cutting metal</b>	<b>9</b>
<b>Fitting the straight guide</b>	<b>9</b>
<b>Changing a blade</b>	<b>9</b>
<b>Using the LightSabre system</b>	<b>10</b>
<b>Changing the batteries</b>	<b>10</b>
<b>General inspection</b>	<b>10</b>
<b>Maintenance</b>	<b>10</b>



## **Full 2 Years Warranty**

*Whilst every effort is made to ensure your complete satisfaction with this tool, occasionally, due to the mass manufacturing techniques, a tool may not live up to our required level of performance and you may need the assistance of our service department.*

*This product is warranted for a 2-year period from the date of the original purchase. If found to be defective in materials or workmanship, the tool or the offending faulty component will be replaced free of charge with another of the same item. A small freight charge may apply.*

*The warranty replacement unit is only made available by returning the tool to the place of purchase with a confirmed register receipt. Proof of purchase is essential. We reserve the right to reject any claim where the purchase cannot be verified.*

*This warranty does not include damage or defects to the tool caused by or resulting from abuse, accidents or alterations.*

*It also does not cover any bonus accessories unless the tool is a GMC Platinum Professional model.*

*Please ensure that you store your receipt in a safe place. Conditions apply to the above warranty.*

*If you need direction of what constitutes a free of charge warranty claim, please review the guide given on the rear of the Receipt Holder. An indication is given as to the types of claim that are permissible, and those that are not.*

## Dear Customer

If you require any help with your product, whether it is a Warranty claim, spare part or user information:

please phone our Help Line for an immediate response. The appropriate number is given on the rear page of this manual.

## Introduction

Your new GMC power tool will more than satisfy your expectations. It has been manufactured under stringent GMC Quality Standards to meet superior performance criteria.

You will find your new tool easy and safe to operate, and, with proper care, it will give you many years of dependable service.

**Caution.** Carefully read through this entire Instruction Manual before using your new GMC Power Tool. Take special care to heed the Cautions and Warnings.

Your GMC power tool has many features that will make you job faster and easier. Safety performance and dependability have been given top priority to the development of this tool, making it easy to maintain and operate.

## Environmental protection



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe way.

## Symbols

The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use.



Wear hearing protection.

Wear eye protection.

Wear breathing protection.



Double insulated for additional protection.



N380

Conforms to relevant safety standards.

## Specifications

Voltage:	230–240V ~ 50 Hz
Power rating:	620W
No load speed:	800–3000/min
Stroke length:	18mm
Cutting angle range:	0–45°
Cutting depth in:	
Wood	60mm
Steel	6mm

This jigsaw is double insulated. There are two independent barriers of insulation to protect you from the possibility of electric shock.

The sound intensity level for the operator may exceed 85 dB(A) and sound protection measures are necessary.

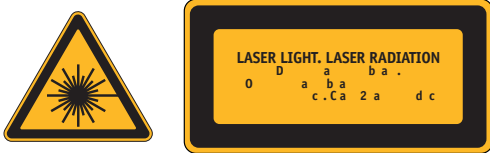
## Safety rules for laser lights

The laser light/laser radiation used in the GMC LightSabre system is Class 2 with maximum 1mW and 400nm–700nm wavelengths. These lasers do not normally present an optical hazard, although staring at the beam may cause flash blindness.

**Warning.** Do not stare directly at the laser beam.

A hazard may exist if you deliberately stare into the beam, please observe all safety rules as follows;

- The laser shall be used and maintained in accordance with the manufacturer's instructions.
- Never aim the beam at any person or an object other than the work piece.
- The laser beam shall not be deliberately aimed at personnel and shall be prevented from being directed towards the eye of a person for longer than 0.25s.
- Always ensure the laser beam is aimed at a sturdy work piece without reflective surfaces. I.e. 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.
- Do not change the laser light assembly with a different type. Repairs must be carried out by the laser manufacturer or an authorized agent.



**Caution.** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Please refer to the relevant Australian standards, AS 2397 and AS/NZS2211 for more information on Lasers.

### General safety instructions

To use this tool properly, you must observe the safety regulations, the assembly instructions and the operating instructions to be found in this Manual. All persons who use and service the machine have to be acquainted with this Manual and must be informed about its potential hazards. Children and infirm people must not use this tool. Children should be supervised at all times if they are in the area in which the tool is being used. It is also imperative that you observe the accident prevention

regulations in force in your area. The same applies for general rules of occupational health and safety.

**Warning.** When using power tools, basic safety precautions should always be taken to reduce the risk of fire, electric shock and personal injury. Also, please read and heed the advice given in the additional important safety instructions.

- 1. Keep the work area clean and tidy.** Cluttered work areas and benches invite accidents and injury.
- 2. Consider the environment in which you are working.** Do not use power tools in damp or wet locations. Keep the work area well lit. Do not expose power tools to rain. Do not use power tools in the presence of flammable liquids or gases.
- 3. Keep visitors away from the work area.** All visitors and onlookers, especially children and infirm persons, should be kept well away from where you are working. Do not let others in the vicinity make contact with the tool or extension cord.
- 4. Store tools safely.** When not in use, tools should be locked up out of reach.
- 5. Do not force the tool.** The tool will do the job better and safer working at the rate for which it was designed.
- 6. Use the correct tool for the job.** Do not force small tools or attachments to do the job best handled by a heavier duty tool. Never use a tool for a purpose for which it was not intended.
- 7. Dress correctly.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-slip footwear are recommended when working outdoors. If you have long hair, wear a protective hair covering.
- 8. Use safety accessories.** Safety glasses and earmuffs should always be worn. A face or dust mask is also required if the cutting operation creates dust.
- 9. Do not abuse the power cord.** Never pull the cord to disconnect the tool from the power point. Keep the

cord away from heat, oil and sharp edges.

- 10. Secure the work piece.** Use clamps or a vice to hold the work piece. It is safer than using your hand and frees both hands to operate the tool.
- 11. Do not overreach.** Keep your footing secure and balanced at all times.
- 12. Look after your tools.** Keep tools sharp and clean for better and safer performance. Follow the instructions regarding lubrication and accessory changes. Inspect tool cords periodically and, if damaged, have them repaired by an authorised service facility. Inspect extension cords periodically and replace them if damaged. Keep tool handles dry, clean and free from oil and grease.
- 13. Disconnect idle tools.** Switch off the power and disconnect the plug from the power point before servicing, when changing accessories and when the tool is not in use.
- 14. Remove adjusting keys and wrenches.** Check to see that keys and adjusting wrenches are removed from the tool before switching on.
- 15. Avoid unintentional starting.** Always check that the switch is in the OFF position before plugging in the tool to the power supply. Do not carry a plugged in tool with your finger on the switch.
- 16. Use outdoor rated extension cords.** When a tool is used outdoors, use only extension cords that are intended for outdoor use and are so marked.
- 17. Stay alert.** Watch what you are doing. Use common sense. Do not operate a power tool when you are tired.
- 18. Check for damaged parts.** Before using a tool, check that there are no damaged parts. If a part is slightly damaged, carefully determine if it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, proper mounting and any other

conditions that may affect the operation of the tool. A part that is damaged should be properly repaired or replaced by an authorised service facility, unless otherwise indicated in this Instruction Manual. Defective switches must be replaced by an authorised service facility. Do not use a tool if the switch does not turn the tool on and off correctly.

- 19. Guard against electric shock.** Prevent body contact with grounded objects such as water pipes, radiators, cookers and refrigerator enclosures.
- 20. Use only approved parts.** When servicing, use only identical replacement parts. Use an authorised service facility to fit replacement parts.

### **Additional safety rules for jigsaws**

**Warnings.** Before connecting a tool to a power source (mains switch power point receptacle, outlet, etc.) be sure that the voltage supply is the same as that specified on the nameplate of the tool. A power source with a voltage greater than that specified for the tool can result in serious injury to the user, as well as damage to the tool. If in doubt, do not plug in the tool. Using a power source with a voltage less than the nameplate rating is harmful to the motor.

Always remove the plug from the mains socket before making any adjustments or maintenance, including changing the blade.

- Ensure that the lighting is adequate.
- Do not use the saw unless the guards are in place
- Keep the shoe flat on the work piece.
- Do not put pressure on the saw, such that it slows the motor down. Allow the saw blade to cut without pressure. You will get better results and you will be taking better care of your tool.
- Keep the area free of tripping hazards.
- Do not let anyone under 18 years operate this jigsaw.
- Only use blades in good condition.

- *Before cutting, check that there is sufficient clearance for the blade under the work piece.*
- *Do not touch the blade after operation. It will be very hot.*
- *Keep your hands away from under the work piece.*
- *Never use your hands to remove sawdust, chips or waste close by the blade.*
- *Rags, cloths, cord, string and the like should never be left around the work area.*
- *Avoid cutting nails. Inspect the work piece and remove all nails and other foreign objects before beginning sawing.*
- *Support the work properly.*
- *Never reach over the blade to remove waste or off cuts.*
- *Do not attempt to free a jammed blade before first switching off the machine.*
- *If you are interrupted when operating the saw, complete the process and switch off before looking up.*
- *Periodically check that all nuts, bolts and other fixings are properly tightened.*
- *Do not store materials or equipment above a machine in such a way that they could fall into it.*
- *Always hold the saw on parts that are insulated. If you accidentally cut into hidden wiring or the saw's own cable, the metal parts of the saw will become 'live'.*
- *Check the voltage on mains matches that of rating plate before plugging in the tool.*
- *Do not secure the jigsaw upside down in a vice or work bench and use it as a saw bench. This can lead to serious injury.*
- *When using the jigsaw, use safety equipment including safety goggles or shield, ear defenders, dust mask and protective clothing including safety gloves.*

***Wear goggles***

***Wear ear defenders***

***Wear a breathing mask***

***Unpacking***

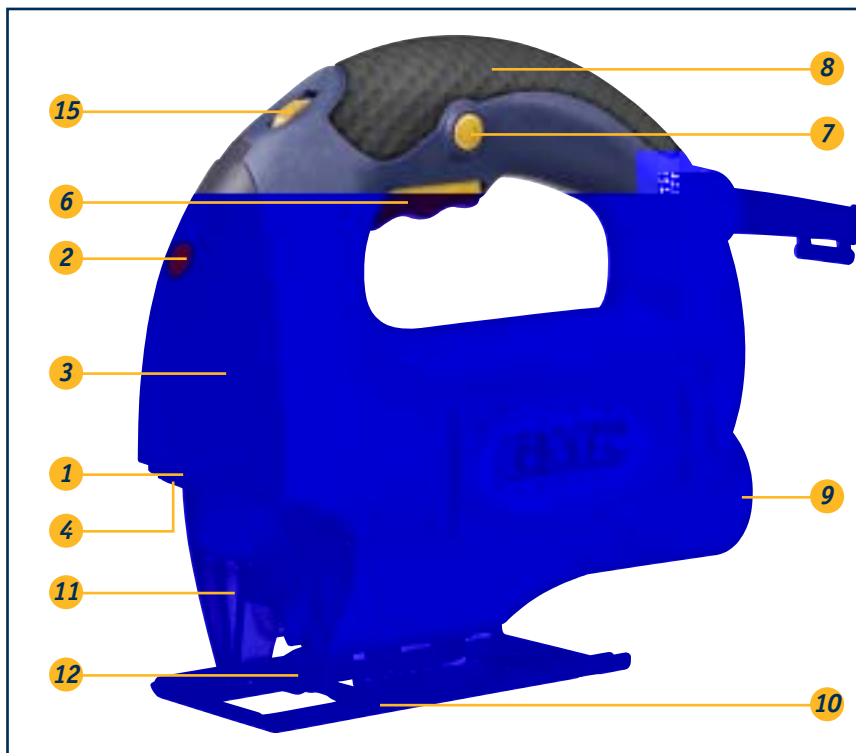
*Due to modern mass production techniques, it is unlikely that your power tool is faulty or that a part is missing. If you find anything wrong, do not operate the tool until the parts have been replaced or the fault has been rectified. Failure to do so could result in serious personal injury.*

### **Know your product**

Before using the jigsaw, familiarise yourself with all the operating features and safety requirements.

Use the tool and accessories only for the applications intended. All other applications are expressly ruled out.

- |                                       |  |
|---------------------------------------|--|
| 1. Laser light assembly               | 9. Dust extraction outlet              |
| 2. Laser light on/off switch          | 10. Shoe plate                         |
| 3. Laser light battery cover          | 11. Blade guard                        |
| 4. Laser aperture                     | 12. Blade roller guide                 |
| 5. Laser warning label<br>(not shown) | 13. Cutting angle scale<br>(not shown) |
| 6. On/off switch                      | 14. Straight guide<br>(not shown)      |
| 7. Lock on button                     | 15. Variable speed dial                |
| 8. Soft grip handle                   |  |



### Adjusting the shoe for angular cutting

**Caution.** Always ensure that the jigsaw is switched off and plug is removed from the power point before making any adjustments.

1. Loosen the 2 hex screws located on the underside of the tool using the hex key provided.



2. Move the shoe plate (10) backwards and tilt it to the required angle between 0 and 45° using the scale marked on the base. For accurate work it is necessary to make a trial cut, measure the work and reset the angle until the correct setting is achieved.
3. Slide the shoe plate (10) until the guide roller (12) rests against the back edge of the blade.



4. Retighten the 2 hex screws.

**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.

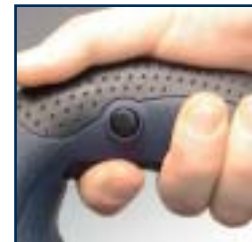
### Dust extraction

1. To improve dust extraction from the working area, connect dust extraction equipment to the dust extraction outlet (9) at the rear of the tool.
2. The vacuum adapter supplied can be used to connect an ordinary household vacuum cleaner to the tool.
3. The vacuum extraction system works most effectively when the safety guard (11) is in the down position.



### Switching on and off

1. Connect the plug to the power point.
2. Start the tool by squeezing the on/off trigger switch (6).
3. Release the trigger to stop the tool.
4. If you press the lock on button (7) while the trigger switch is depressed, the switch is kept in the operating position.
5. 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

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



1. The electronic speed control dial (15) is used to programme the speed of the blade.
2. The speed should be adapted to the material being cut.
3. Use your thumb to turn the dial forward to increase the speed and backward to decrease it.
4. Position "1" denotes the lowest speed. Position "6" denotes the highest speed.



### Making a cut

1. Switch on the jigsaw and allow the blade to reach maximum speed.
2. Slowly guide the jigsaw forward using both hands, keeping the shoe plate flat against the work piece.
3. Do not force the jigsaw.

**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.

### Pocket & round cutting

1. When starting a cut from the centre of a work piece, drill a 12mm diameter hole to ensure that there is clearance for the blade.
2. When cutting tight curves, reduce the speed of the saw.

**Warning.** Do not move the saw forward along its cut until the blade has completely entered the material and the shoe comes to rest on its surface.

### Cutting metal

1. When cutting metals, a suitable cooling/cutting oil must be used.
2. Squirt the lubricant onto the blade or work piece at regular intervals during cutting in order to reduce wear on the blade.

### Fitting the straight guide

1. Push the guide (14) into the slot in the shoe plate (10) to the approximate required position.
2. Place the short locking bar (a) on the guide and secure it finger-tight with screw (b). The screw fits point first through the hole in the shoe plate.



3. Position the guide precisely where required and tighten the screw.



### Changing a blade

**Warning.** Always ensure that the saw is switched off and plug is removed from the power point before making any adjustments.

1. Insert the hex key through the guard at the front of the tool and loosen the 2 hex screws.
2. Slide the blade into the locating groove with the teeth pointing forward.



3. Tighten the 2 hex screws.
4. Replace the plug and run the saw under no load to check that it runs smoothly before using it to cut any materials.

### Using the LightSabre system

**Warnings.** Do not stare directly at the laser beam.

Never aim the beam at any person or an object other than the work piece.

Do not deliberately aim the beam at personnel and ensure that it is not directed towards the eye of a person for longer than 0.25s.

Always ensure the laser beam is aimed at a sturdy work piece without reflective surfaces i.e. 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.

Only turn laser beam on when tool is on work piece.

1. Mark the line of the cut on the work piece.
2. Adjust the angle of cut as required.
3. Plug in the machine and start the motor.
4. When the blade is at its maximum speed (approximately 2 seconds), place the saw on the work piece.
5. Switch on the laser beam using the switch (2).
6. Align the beam with the mark on the work piece and slowly push the saw forward using both hands, keeping the red light beam on the mark.



7. Switch off the laser beam on completion of the cut.

### Changing the batteries

1. Hold the jigsaw with both hands and use your thumbs to push the base of the laser light battery cover (3) upwards. Steady it with your index fingers to prevent it getting away from you.
2. Replace both AAA batteries, taking care to insert the new batteries with the correct polarity.
3. To replace the battery cover (3), locate the lugs on the cover below those on the case and slide the cover down until it snaps into position.

**Caution.** Remove the laser light batteries when the tool is to be stored without use for a few days or more. If left in position, the batteries might leak and damage the laser light assembly. Damage due to leaking batteries is not covered under warranty.

### General inspection

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

### Maintenance

1. Store the tool, instruction manual and accessories in a secure place. In this way you will always have all the information and parts ready to hand.
2. Keep the tool's air vents unclogged and clean at all times.
3. Remove dust and dirt regularly. Cleaning is best done with compressed air or a rag.
4. Never use caustic agents to clean plastic parts.
5. Lubricate the guide roller from time to time with a drop of oil. It will extend the life of the roller.

**Caution.** Do not use cleaning agents to clean the plastic parts of the tool. A mild detergent on a damp cloth is recommended. Water must never come into contact with the tool.

---

**Carefully read the entire Instruction Manual  
before using this product.**

**Before returning this product for a  
Warranty Claim or any other reason  
Please Call 1300 880 001 (Australia)  
or 0800 445 721 (New Zealand)**

**When you make your call, please have  
the following information at hand:**

- **GMC Product Type**
- **GMC Product Code**

A GMC Service Engineer will take your call and, in most cases, will be able to solve your problem over the phone.

You are welcome to use this phone-in service to make suggestions or give comments about any GMC product.

With continuing product development changes may have occurred which render the product received slightly different to that shown in this instruction manual. The manufacturer reserves the right to change specifications without notice. Note: Specifications may differ from country to country.



**The GMC 777 Helpline operates from 7am to 7pm, 7 days a week (EST). This allows you to contact GMC directly with any queries and technical questions you have regarding our products.**



45-55 South Centre Road  
Melbourne Airport  
Victoria, Australia 3045  
Tel: (03) 8346 1100 Fax: (03) 8346 1200



**Save this Manual for future reference.**

---