INSTRUCTION MANUAL

Read all the instruction carefully before you use the appliance and keep it for future use.

67024c

MARKSMAN
QUALITY TOOLS

500W IMPACT DRILL

- **230V~50Hz**
- **500w**
- **0-3000RPM**
- **13MM**

5 AMP fuse (max) must be fitted to plug attached to this cable.

Intertek GS

RoHS CE

5 038673 670249

MARKSMAN B20 3BT UK

SPECIFICATIONS

67024C		
Power input	w	500
Rated voltage	v~	230
Rated frequency	**Hz**	**50Hz**
Speed I r/min		**2800**
Speed II		0-3000

Manufacturer reserves the right to change specifications without notice .
Specification may differ from country to country

GENERAL SAFETY RULES

(For All Tools)

⚠ WARNING:

Read and understand all instructions . Failure to follow all instruction listed below, may result in electric shock , fire and/or serious personal injury .

SAVE THESE INSTRUCTIONS

Work Area

1. **Keep your work area clean and well lit** . Cluttered benches and dark areas invite accidents.
2. **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 .
3. **Keep bystanders, children , and visitors away while operating a power tool** .Distractions can cause you to lose control.

Electrical Safety

4. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators**. There is an increased risk of electric shock if your body is grounded.
5. **Do not expose power tools to rain or wet conditions.** There is an increased risk of electric shock if your body is grounded.
6. **Do not abuse the cord. Never use the cord to carry the tools pr pull**

CORRECT DISPOSAL OF THIS PRODUCT

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

500W IMPACT DRILL

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UK PLUG REWIRING

Your appliance operates on 230-240V-50Hz AC Mains and comes fitted with a 5-pin BSI Approved plug, so that it is ready for use by simply plugging into AC Mains. Should you need to change or refit a plug, proceed as follows:

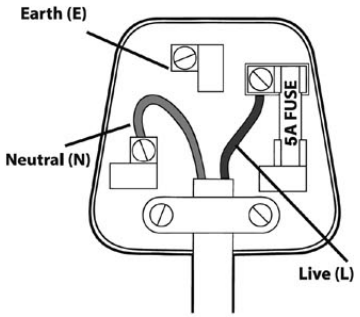
IMPORTANT:

The wires in the mains lead are coloured in accordance with the following code:

BLUE : NEUTRAL (N)

Brown or RED : LIVE (L)

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in you plug, proceed as follows:



The wire which is coloured BLUE must be connected to the terminal which is marked with the letter "N" or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter "L or coloured RED.

Always ensure that the Mains Cord is located into the Plug through the Cord Guard or Cable Clamp, and that the Cord Guard screws are lightened to clamp the Cord (outer sheath and inner coloured wires) in position in the Plug. Make sure the Plug top is also fitted securely.

This appliance must be protected by a 5-amp fuse in a 5-amp type (BS1363) plug. Should you need to replace the fuse, use only an ASTA approved BS 1362 fuse.

the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

8. **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock.

Personal Safety

9. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or medication.** A moment of inattention while operating power tools may result in serious personal injury .
10. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
11. **Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
12. Remove adjusting keys or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury .
13. Do not overreach. Keep proper tooting and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.
14. Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions. Ordinary eye or sun glasses are NOT eye protection.

Tool Used and Care

15. **Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
16. **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
17. **Do not use tool if switch dose not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired .
18. **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
19. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
20. **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
21. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
22. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool, may become hazardous when used on another tool.

SERVICE

23. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.

24. **When servicing a tool, use only identical replacement parts. Follow instructions in the maintenance section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

USE PROPER EXTENSION CORD: Make sure your extension cord is in good condition. 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 . Table 1 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.

SPECIFIC SAFETY RULES

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to drill safety rules. If you use this tool unsafely or incorrectly , you can suffer serious personal injury.

1. hold tool by insulated gripping surfaces when performing an operation where the cutting tools may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
2. Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.
3. Hold the tool firmly.
4. Keep hands away from rotating parts.
5. Do not leave the tool running. Operate the tool only when hand-held.
6. Do not touch the drill bit or the workpiece immediately after operation; they may be extremely hot and could burn your skin.
7. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.

SAVE THESE INSTRUCTIONS

⚠**WARNING:**

MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

- A guard or other part that is damaged should be properly repaired or replaced by an authorised service centre unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by an authorised service centre. Do not use tool if switch does not turn it on and off.

20. **Warning** - The use of any other accessory or attachment other than that recommended in this operating instruction might present a risk of personal injury.
21. **Have your tool repaired by an expert** - This electric appliance is in accordance with the relevant safety rules. Only experts may carry out repairing of electric appliances otherwise it may cause considerable danger for the user.
22. **connect the dust extraction device** - Wherever there are facilities for fitting a dust extraction system, make sure it is connected and used.
23. **Noise level** - The noise level of this power tool is measured according to IEC 59 co 11, IEC 704, DIN 45635 Part 21, NFS 31081 (84/537IEWG). Noise level at work area can exceed 85 dB (A). In that case operators should protect themselves against damage to hearing - wear ear defenders.

WARNING:

THIS PRODUCT OPERATES AT 230 VOLT AC SINGLE PHASE MAINS VOLTAGE. READ ALL THE SAFETY INSTRUCTIONS BEFORE USING THE MACHINERY. OBSERVE ALL THE LOCAL SAFETY REGULATIONS.

This product Is "CE" marked and complies with all the relevant European CE directives for LVD, EMC and Machinery safety.

SAFETY INSTRUCTIONS

Warning! When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following. Read all these instructions before attempting to operate this product and save these instructions.

For safe operation:

01. Keep work area clean - Cluttered areas and benches invite injuries.

02. Consider work area environment - Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit. Don't use power tools in presence of flammable liquids or gases.

03. Guard against electric shock - Prevent body contact with earth surfaces (e.g. pipes, radiators, ranges refrigerators)

04. Keep children away - Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.

05. Store idle Tools - When not is use, tools should be stored in dry, high, or locked-up place, out of the reach of children.

06. Don't force tool - It will do the job better and safer at the rate for which it was intended.

07. Use the right tool - Don't force small tools or attachments to do the job of heavy duty tool. Don't use tools for purposes not intended for example, don't use circular saw for cutting tree limbs or logs.

08. Dress properly - Do not wear loose clothing or jewellery. They can be caught in moving parts. Rubber gloves and nonskid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.

09. Use safety glasses - Also use face or dust mask if cutting operation is dusty.

10. Do not abuse the cord - Never Carry tool by cord or yank it to disconnect it from receptacle, Keep cord from heat, oil and sharp edges.

11. Secure work - Use clamps or a vice to hold work, it's safer than using your hand and it frees both hands to operate tool.

12. Do not overreach - Keep proper footing and balance at all times.

13. Maintain tools with care - Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorised service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free from oil and grease.

14. Disconnect tools - When not in use, before servicing, and when changing accessories such as blades, bits and cutters.

15. Remove adjusting keys and wrenches - Form the habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

16. Avoid unintentional starting - Don't Carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.

17. Outdoor use extension cords - When tool is used outdoors, use only extension cords intended for use outdoors and so marked.

18. Stay alert - Watch what you are doing, Use common sense. Do not operate tool when you are tired.

19. Check damaged parts - Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation.

SYMBOLS

The followings show the symbols used for tool .

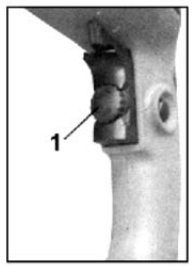
V..... volts	**n。 ..... no load speed**
A..... amperes	**回 ..... Class II Construction**
Hz..... hertz	**.../min ..... revolutions or reciprocation per minute**

~ ..... alternating current

FUNCTIONAL DESCRIPTION

CAUTION:

· Always be sure that the tool is switched off and unplugged before adjusting or checking function on the tool .



1.Switch trigger

Switch action

⚠ CAUTION:

Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released .

TO start the tool, simply pull the switch trigger . Tool speed is increased by increasing pressure on the switch trigger .

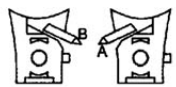
Release the switch trigger to stop .

For continuous operation , pull the switch trigger and then push the lock lever upward .

To stop the tool from the locked position , pull the switch trigger fully , then release it .

Reversing switch action

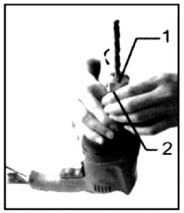
This tool has a reversing switch to change the direction of rotation . Move the reversing switch lever to the ⇦ position(A side)for clockwise rotation or the ⇨ position (B side for counterclockwise rotation .



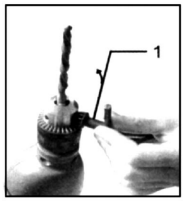
1.Reversing switch lever

⚠ CAUTION:

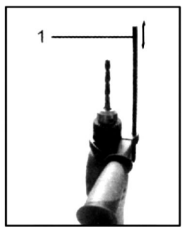
- Always check the direction of rotation before operation .
- Use the reversing switch only after the tool come to a complete stop . Changing the direction of rotation before the tool stops may damage the tool .



1.Sleeve
2. Ring

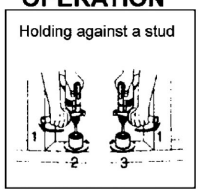


1. Chuck key



1.Depth gauge

OPERATION



1.Reaction 2.Reverse
3.Forward

Installing or removing drill bit

For Rubber Chuck

Hold the ring and turn the sleeve counterclockwise to open the chuck jaws. Place the bit in the chuck as far as it will go .Hold the ring firmly and turn the sleeve clockwise to tighten the chuck .

To remove the bit , hold the ring and turn the sleeve counterclockwise .

For Iron Chuck

To install the bit ,place it in the chuck as far as it will go . Tighten the chuck by hand .Place the chuck key in each of the three holes and tighten clockwise .Be sure to tighten all three chuck holes evenly .

To remove the bit ,turn the chuck key counterclockwise in just one hole ,then loosen the chuck by hand .

After using the chuck key , be sure to return to the original position .

Depth gauge (optional accessory)

The depth gauge is convenient for drilling holes of uniform depth .Loosen the side grip and insert the depth gauge into the hole in the side grip . Adjust the depth gauge to the desired depth and tighten the side grip.

NOTE:

The depth gauge cannot be used at the position where the depth gauge strikes against the tool body .

Holding tool

When drilling a large hole with a hole saw , etc., the side grip (auxiliary handle)should be used as a brace to maintain safe control of the tool .

Grasp the rear handle and the front grip firmly when starting or stopping the tool, since there is an initial and final reaction .When drilling action is forward(clockwise), The tool should be braced to prevent a counterclockwise reaction if the bit should bind .When reversing ,brace the tool to prevent a clockwise reaction .If the bit must be removed from a partially drilled hole ,be sure the tool is properly braced before reversing before reversing .

Carbon brush light device and Replacing carbon brushes

When the machine working in the normal condition, the carbon brush light shows "green"

Remove and check the carbon brushes regularly, when the carbon brush light shows"red", please change the carbon brushes timely. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.

Drilling operation

Drilling in wood

When drilling in wood ,the best results are obtained with wood drill equipped with a guide screw .The guide screw makes drilling easier by pulling the bit into the workpiece .

Drilling in metal

To prevent the bit from slipping when starting a hole, make an indentation with a center-punch and hammer at the point to be drilled . Place the point of the bit in the indentation and start drilling .

MAINTENANCE

Use a cutting lubricant when drilling metals .The Exceptions are iron and brass which should be drilled dry .

⚠ CAUTION:

- Pressing excessively on the tool will not speed up the drilling .In fact , this excessive pressure will only serve to damage the tip of your bit ,decrease the tool performance and shorten the service life of the tool .

There is a tremendous twisting force exerted on the tool bit at the tome of hole breakthrough .Hold the tool firmly and exert care when the bit begins to break through the workpiece .

- A stuck bit can be removed simply by setting the reversing switch to reverse rotation in order to back out .

However ,the tool may back out abruptly if you do not hold it firmly .

- Always secure small workpieces in a vise or similar hold-down device .
- Avoid drilling in material that you suspect contains hidden nails or other things that may cause the bit to bind or break .

CAUTION:

- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance .

To maintain product SAFETY and RELIABILITY, repairs ,carbon brush inspection and replacement, any other maintenance or adjustment should be performed by a qualified Service Engineer, or Service Centre, always use authorised replacement parts .