

OPERATOR'S MANUAL



CHISEL MORTISER MODEL: MC-625

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Rev. 8/2012

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THANK YOU & WARRANTY

Thank you for your purchase of a machine from Baileigh Industrial. We hope that you find it productive and useful to you for a long time to come.

Inspection & Acceptance. Buyer shall inspect all Goods within ten (10) days after receipt thereof. Buyer's payment shall constitute final acceptance of the Goods and shall act as a waiver of the Buyer's rights to inspect or reject the goods unless otherwise agreed. If Buyer rejects any merchandise, Buyer must first obtain a Returned Goods Authorization ("RGA") number before returning any goods to Seller. Goods returned without a RGA will be refused. Seller will not be responsible for any freight costs, damages to goods, or any other costs or liabilities pertaining to goods returned without a RGA. Seller shall have the right to substitute a conforming tender. Buyer will be responsible for all freight costs to and from Buyer and repackaging costs, if any, if Buyer refuses to accept shipment. If Goods are returned in unsalable condition, Buyer shall be responsible for full value of the Goods. Buyer may not return any special order Goods. Any Goods returned hereunder shall be subject to a restocking fee equal to 30% of the invoice price.

Specifications. Seller may, at its option, make changes in the designs, specifications or components of the Goods to improve the safety of such Goods, or if in Seller's judgment, such changes will be beneficial to their operation or use. Buyer may not make any changes in the specifications for the Goods unless Seller approves of such changes in writing, in which event Seller may impose additional charges to implement such changes.

Limited Warranty. Seller warrants to the original end-user that the Goods manufactured or provided by Seller under this Agreement shall be free of defects in material or workmanship for a period of twelve (12) months from the date of purchase, provided that the Goods are installed, used, and maintained in accordance with any instruction manual or technical guidelines provided by the Seller or supplied with the Goods, if applicable. The original end-user must give written notice to Seller of any suspected defect in the Goods prior to the expiration of the warranty period. The original end-user must also obtain a RGA from Seller prior to returning any Goods to Seller for warranty service under this paragraph. Seller will not accept any responsibility for Goods returned without a RGA. The original end-user shall be responsible for all costs and expenses associated with returning the Goods to Seller for warranty service. In the event of a defect, Seller, at its sole option, shall repair or replace the defective Goods or refund to the original end-user the purchase price for such defective Goods. Goods are not eligible for replacement or return after a period of 30 days from date of receipt. The foregoing warranty is Seller's sole obligation, and the original end-user's exclusive remedy, with regard to any defective Goods. This limited warranty does not apply to: (a) die sets, tooling, and saw blades; (b) periodic or routine maintenance and setup, (c) repair or replacement of the Goods due to normal wear and tear, (d) defects or damage to the Goods resulting from misuse, abuse, neglect, or accidents, (f) defects or damage to the Goods resulting from improper or unauthorized alterations, modifications, or changes; and (f) any Goods that has not been installed and/or maintained in accordance with the instruction manual or technical guidelines provided by Seller.

EXCLUSION OF OTHER WARRANTIES. THE FOREGOING LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ANY AND ALL OTHER EXPRESS, STATUTORY OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. NO WARRANTY IS MADE WHICH EXTENDS BEYOND THAT WHICH IS EXPRESSLY CONTAINED HEREIN.

Limitation of Liability. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER OR ANY OTHER PARTY FOR ANY INCIDENTIAL, CONSEQUENTIAL OR SPECIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR DOWN TIME) ARISING FROM OR IN MANNER CONNECTED WITH THE GOODS, ANY BREACH BY SELLER OR ITS AGENTS OF THIS AGREEMENT, OR ANY OTHER CAUSE WHATSOEVER, WHETHER BASED ON CONTRACT, TORT OR ANY OTHER THEORY OF LIABILITY. BUYER'S REMEDY WITH RESPECT TO ANY CLAIM ARISING UNDER THIS AGREEMENT IS STRICTLY LIMITED TO NO MORE THAN THE AMOUNT PAID BY THE BUYER FOR THE GOODS.



Force Majuere. Seller shall not be responsible for any delay in the delivery of, or failure to deliver, Goods due to causes beyond Seller's reasonable control including, without limitation, acts of God, acts of war or terrorism, enemy actions, hostilities, strikes, labor difficulties, embargoes, non-delivery or late delivery of materials, parts and equipment or transportation delays not caused by the fault of Seller, delays caused by civil authorities, governmental regulations or orders, fire, lightening, natural disasters or any other cause beyond Seller's reasonable control. In the event of any such delay, performance will be postponed by such length of time as may be reasonably necessary to compensate for the delay.

Installation. If Buyer purchases any Goods that require installation, Buyer shall, at its expense, make all arrangements and connections necessary to install and operate the Goods. Buyer shall install the Goods in accordance with any Seller instructions and shall indemnify Seller against any and all damages, demands, suits, causes of action, claims and expenses (including actual attorneys' fees and costs) arising directly or indirectly out of Buyer's failure to properly install the Goods.

Work By Others; Safety Devices. Unless agreed to in writing by Seller, Seller has no responsibility for labor or work performed by Buyer or others, of any nature, relating to design, manufacture, fabrication, use, installation or provision of Goods. Buyer is solely responsible for furnishing, and requiring its employees and customers to use all safety devices, guards and safe operating procedures required by law and/or as set forth in manuals and instruction sheets furnished by Seller. Buyer is responsible for consulting all operator's manuals, ANSI or comparable safety standards, OSHA regulations and other sources of safety standards and regulations applicable to the use and operation of the Goods.

Remedies. Each of the rights and remedies of Seller under this Agreement is cumulative and in addition to any other or further remedies provided under this Agreement or at law or equity.

Attorney's Fees. In the event legal action is necessary to recover monies due from Buyer or to enforce any provision of this Agreement, Buyer shall be liable to Seller for all costs and expenses associated therewith, including Seller's actual attorneys' fees and costs.

Governing Law/Venue. This Agreement shall be construed and governed under the laws of the State of Wisconsin, without application of conflict of law principles. Each party agrees that all actions or proceedings arising out of or in connection with this Agreement shall be commenced, tried, and litigated only in the state courts sitting in Manitowoc County, Wisconsin or the u.s. Federal Court for the Eastern District of Wisconsin. Each party waives any right it may have to assert the doctrine of "forum non conveniens" or to object to venue to the extent that any proceeding is brought in accordance with this section. Each party consents to and waives any objection to the exercise of personal jurisdiction over it by courts described in this section. Each party waives to the fullest extent permitted by applicable law the right to a trial by jury.

Summary of Return Policy.

- 10 Day acceptance period from date of delivery. Damage claims and order discrepancies will not be accepted after this time.
- You must obtain a Baileigh issued RGA number PRIOR to returning any materials.
- Returned materials must be received at Baileigh in new condition and in original packaging.
- Altered items are not eligible for return.
- Buyer is responsible for all shipping charges.
- A 30% re-stocking fee applies to all returns.

Baileigh Industrial makes every effort to ensure that our posted specifications, images, pricing and product availability are as correct and timely as possible. We apologize for any discrepancies that may occur. Baileigh Industrial reserves the right to make any and all changes deemed necessary in the course of business including but not limited to pricing, product specifications, quantities, and product availability.

For Customer Service & Technical Support:

Please contact one of our knowledgeable Sales and Service team members at: (920) 684-4990 or e-mail us at sales@baileighindustrial.com



INTRODUCTION

The quality and reliability of the components assembled on a Baileigh Industrial machine guarantee near perfect functioning, free from problems, even under the most demanding working conditions. However if a situation arises, refer to the manual first. If a solution cannot be found, contact the distributor where you purchased our product. Make sure you have the serial number and production year of the machine (stamped on the nameplate). For replacement parts refer to the assembly numbers on the parts list drawings.

Our technical staff will do their best to help you get your machine back in working order.

In this manual you will find: (when applicable)

- Safety procedures
- Correct installation guidelines
- Description of the functional parts of the machine
- Capacity charts
- Set-up and start-up instructions
- Machine operation
- Scheduled maintenance
- Parts lists

GENERAL NOTES

After receiving your equipment remove the protective container. Do a complete visual inspection, and if damage is noted, **photograph it for insurance claims** and contact your carrier at once, requesting inspection. Also contact Baileigh Industrial and inform them of the unexpected occurrence. Temporarily suspend installation.

Take necessary precautions while loading / unloading or moving the machine to avoid any injuries.

Your machine is designed and manufactured to work smoothly and efficiently. Following proper maintenance instructions will help ensure this. Try and use original spare parts, whenever possible, and most importantly; **DO NOT** overload the machine or make any unauthorized modifications.



Note: This symbol refers to useful information throughout the manual.





IMPORTANT PLEASE READ THIS OPERATORS MANUAL CAREFULLY

It contains important safety information, instructions, and necessary operating procedures. The continual observance of these procedures will help increase your production and extend the life of the equipment.

SAFETY INSTRUCTIONS

LEARN TO RECOGNIZE SAFETY INFORMATION

This is the safety alert symbol. When you see this symbol on your machine or in this manual, **BE ALERT TO THE POTENTIAL FOR PERSONAL INJURY!**

Follow recommended precautions and safe operating practices.



UNDERSTAND SIGNAL WORDS

A signal word – **DANGER**, **WARNING**, or **CAUTION** is used with the safety alert symbol. **DANGER** identifies a hazard or unsafe practice that will result in severe <u>Injury or Death</u>.



Safety signs with signal word **DANGER** or **WARNING** are typically near specific hazards.



General precautions are listed on **CAUTION** safety signs. **CAUTION** also calls attention to safety messages in this manual.



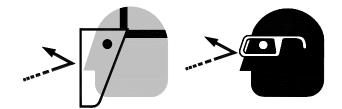


SAVE THESE INSTRUCTIONS. Refer to them often and use them to instruct others.



PROTECT EYES

Wear safety glasses or suitable eye protection when working on or around machinery.





BEWARE OF PIERCING POINTS

Mortising chisels and bits are very sharp and can quickly pierce your fingers and hands. Always wear heavy leather gloves when handling these tools.





ENTANGLEMENT HAZARD - ROTATING SHAFT

Contain long hair, **DO NOT** wear jewelry or loose fitting clothing, and **DO NOT** wear gloves.





PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear suitable hearing protective devices such as ear muffs or earplugs to protect against objectionable or uncomfortable loud noises.





HIGH VOLTAGE

USE CAUTION IN HIGH VOLTAGE AREAS. DO NOT assume the power to be off.

(FOLLOW PROPER LOCKOUT PROCEDURES)





SAFETY PRECAUTIONS



Wood working can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result.

Safety equipment such as guards, push sticks, hold-downs, feather boards, goggles, dust masks and hearing protection can reduce your potential for injury. But even the best guard won't make up for poor judgment, carelessness or inattention. <u>Always use common sense</u> and exercise <u>caution</u> in the workshop. If a procedure feels dangerous, don't try it.

REMEMBER: Your personal safety is your responsibility.

WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

- 1. FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE MACHINE. Learn the machine's application and limitations as well as the specific hazards.
- 2. Only trained and qualified personnel should operate this machine.
- 3. Make sure guards are in place and in proper working order before operating machinery.
- 4. **Chisels and Bits.** Chisels or bits that come loose from the machine during operation can cause serious personal injury. Make sure chisel and bit are not worn or damaged prior to securing to machine and turning on power.
- 5. **Remove any adjusting tools.** Before operating the machine, **ALWAYS** remove the chuck key and any adjusting tools to avoid personal injury.
- 6. **Keep work area clean.** Cluttered areas invite injuries.
- 7. **Overloading machine.** By overloading the machine you may cause injury from flying parts. **DO NOT** exceed the specified machine capacities.
- 8. **Dress appropriate. DO NOT** wear loose fitting clothing or jewelry as they can be caught in moving machine parts. Protective clothing and steel toe shoes are recommended when using machinery. Wear a restrictive hair covering to contain long hair.
- 9. Use eye and ear protection. Always wear ISO approved impact safety goggles.
- 10. **Make sure machine is disconnected from power supply** while motor is being mounted, connected or reconnected.



SAFETY PRECAUTIONS (cont.)



- 11. **Operating Speed.** Always operate this machine at the appropriate speed for the chisel and bit size you are using and the material that you are mortising.
- 12. Observe work area conditions. DO NOT use machines or power tools in damp or wet locations. Do not expose to rain. Keep work area well lighted. DO NOT use electrically powered tools in the presence of flammable gases or liquids.
- 13. **DO NOT** bypass or defeat any safety interlock systems.
- 14. Know the Location of the ON OFF switch and the "E"- STOP button.
- 15. **Keep** visitors a safe distance from the work area.
- 16. **Keep children away**. Children must never be allowed in the work area. **DO NOT** let them handle machines, tools, or extension cords.
- 17. **DO NOT operate machine if under the influence of alcohol or drugs**. Read warning labels on prescriptions. If there is any doubt, **DO NOT** operate the machine.
- 18. **Hand Protection.** Mortising chisels and bits are sharp and can quickly pierce your hand. Always wear heavy leather gloves when handling these items. The chisels and bits may become very hot during operation. Always allow the chisels and bits to cool down before handling.
- 19. **DO NOT** touch live electrical components or parts.
- 20. Clearing Chips and Debris. Chips and dust build-up can present an injury hazard and affect the cut. Turn the machine OFF, allow the tooling to cool, and vacuum away the debris.
- 21. **Be Sure** all equipment is properly installed and grounded according to national, state, and local codes. If machine is equipped with a three-prong plug, it should be plugged into a three-hole electrical receptacle. If an adapter is used to accommodate a two-prong receptacle, the adapter plug must be attached to a known ground.
- 22. **Inspect** power and control cables periodically. Replace if damaged or bare wires are exposed. **Bare wiring can kill!**
- 23. **Maintain machine in top condition**. Keep clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 24. **Reduce the risk of unintentional starting**. Make sure switch is in "**OFF**" position before plugging in power cord.
- 25. **Never leave machine running unattended. TURN POWER OFF**. Don't leave machine until it comes to a complete stop.



SAFETY PRECAUTIONS (cont.)



- 26. **Mounting Piece Parts.** Piece parts that move during the mortising operation can bind the chisel and bit, causing personal injury or machine damage. Always make sure the piece part is properly secured to the table.
- 27. **Stay alert**. Watch what you are doing and use common sense. **DO NOT** operate any tool or machine when you are tired.
- 28. **Using Correct Materials.** Mortising materials other than natural wood fiber can result in serious personal injury and machine damage.
- 29. **Warning**: The dust generated by certain woods and wood products can be injurious to your health. Always operate machinery in well ventilated areas and provide for proper dust removal. Use wood dust collection systems whenever possible.



EMERGENCY STOP

In the event of incorrect operation or dangerous conditions, the machine can be stopped immediately by pressing the **STOP** switch.

TECHNICAL SUPPORT

Our technical support department can be reached at 920.684.4990, and asking for the support desk for purchased machines. Tech Support handles questions on machine setup, schematics, warranty issues, and individual parts needs: (other than die sets and blades).

For specific application needs or future machine purchases contact the Sales Department at: sales@baileighindustrial.com, Phone: 920.684.4990, or Fax: 920.684.3944.

Note: The manual cover photo illustrates the current production model. All other illustrations are representative only and may not depict the actual color, labeling or accessories and may be intended to illustrate technique only.

Note: The specifications and dimensions presented here are subject to change without prior notice due to improvements of our products.



UNPACKING AND CLEANING

Carefully unpack the machine and all loose items from the shipping carton(s). Remove the protective coating from all unpainted surfaces. This coating may be removed with a soft cloth moistened with kerosene (do not use acetone, gasoline or lacquer thinner for this purpose). After cleaning, cover the unpainted surfaces with a good quality household floor paste wax.

Cleaning

Your machine may be shipped with a rustproof waxy oil coating and grease on the exposed unpainted metal surfaces. To remove this protective coating, use a degreaser or solvent cleaner. For a more thorough cleaning, some parts will occasionally have to be removed. **DO NOT USE** acetone or brake cleaner as they may damage painted surfaces. Follow manufacturer's label instructions when using any type of cleaning product. After cleaning, wipe unpainted metal surfaces with a light coating of quality oil or grease for protection.

WARNING: DO NOT USE gasoline or other petroleum products to clean the machine. They have low flash points and can explode or cause fire.

CAUTION: When using cleaning solvents work in a well ventilated area. Many cleaning solvents are toxic if inhaled.









GETTING TO KNOW YOUR MACHINE

The Baileigh MC-625 is easier to operate than a conventional drill press equipped with a mortising attachment. The model MC-625 is made of cast-iron and steel for rigidity and stability. The mortiser comes with a standard 3-jaw type key chuck for positive gripping of mortising bits.

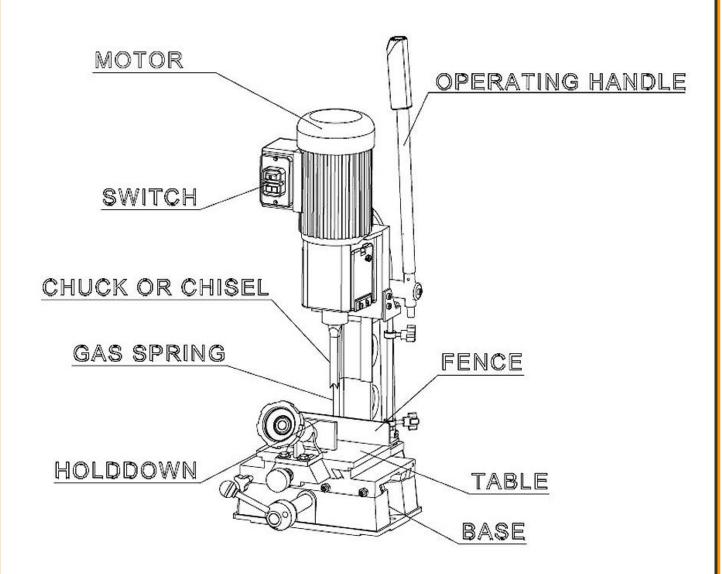


Fig. 1



BAILEIGH





MOTOR

Volts: 110V Power: 1/2 HP Hz: 60Hz Phase: 1 Amps: 3.2 A RPM: 1700

MADE IN CHINA

MORTISER

Model	MC-625
Chisel Capacity	616mm
Chuck Capacity	13mm
Bushing Size	19.05mm
Spindle Speed	1700rpm

MOTOR			
Volts	110V	Watts	1/2HP
Hz	60	Amps	3.2A
RPM	1700	Phase	1
Class	В		

SER.NO.

MADE IN CHIN

CHECKED

Model No. MC-625 Senal No: Voltage: 110V /60Hz Phase 1 Date:

WARNING

- Read instruction manual before operating
- Wear eye protection
- Do not wear gloves, necktie or loose clothing.
- Clamp workpiece or brace against column to prevent rotation



INSTALLATION

IMPORTANT:

- Overall weight of the machine.
- Weight of material being processed.
- Make sure the workbench is properly reinforced to support the weight.
- Maintain an adequate working area around the machine for safety.
- Have the work area well illuminated with proper lighting.
- Keep the floor free of oil and make sure it is not slippery.
- Remove scrap and waste materials regularly, and make sure the work area is free from obstructing objects.
- If long lengths of material are to be fed into the machine, make sure that they are safely supported and will not extend into any aisles.

Consider the following when looking for a suitable location to place the machine:

- Sizes of material to be processed through the machine.
- Space needed for auxiliary stands, work tables, or other machinery.
- Clearance from walls and other obstacles.

Securing the Base

WARNING: Before operating; make sure it is firmly bolted to a table, bench, or the floor. If it tips over on you, it could cause severe injury or death.

The machine should be sited on a level, concrete floor. Provisions for securing it should be in position prior to placing the machine. The accuracy of any machine depends on the precise placement of it to the mounting surface.

The base has two mounting holes. The machine should be mounted to a table that is level and rests solidly on the floor. Place shims under the four mounting holes in the base as required for leveling.

Anchor the base to the mounting surface to prevent tipping using bolts that fasten all the way through the mounting surface. The strongest mounting option is where the holes are drilled all the way through the workbench and the machine is secured with bolts, washers, and nuts.



ASSEMBLY

WARNING: FOR YOUR OWN SAFETY, DO NOT CONNECT THE MACHINE TO THE POWER SOURCE UNTIL THE MACHINE IS COMPLETELY ASSEMBLED AND YOU READ AND UNDERSTAND THE ENTIRE INSTRUCTION MANUAL.

RAISING AND LOWERING HANDLE

1. Assemble hub of handle assembly (A) Fig. 2.

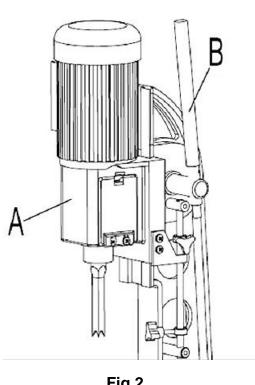


Fig 2

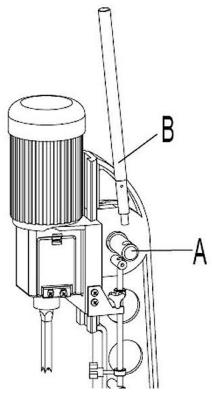


Fig 3

Raise mortising machine head (A) Fig. 3, to the up position by turning handle (B) clockwise.



ELECTRICAL

A CERTIFIED ELECTRICIAN!

Check if the available power supply is the same as listed on the machine nameplate.

WARNING: Make sure the grounding wire (green) is properly connected to avoid electric shock. DO NOT switch the position of the green grounding wire if any electrical plug wires are switched during hookup.

Motor Specifications

Your tool is wired for 230 volt, 50Hz alternating current. Before connecting the tool to the power source, make sure the machine is cut off from power source.

Connections

- A separate electrical circuit should be used for your tools. If an extension cord is used, use
 only 3-wire extension cords, which have grounding type plugs and receptacles, which accept
 the tool's plug. Before connecting the motor to the power line, make sure the switch is in the
 "OFF" position and be sure that the electric current is of the same characteristics as
 indicated on the tool.
- All line connections should make good contact. Running on low voltage will damage the motor.
- In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
- Do not modify the plug provided if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

WARNING: IN ALL CASES, MAKE CERTAIN THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED. IF YOU ARE NOT SURE, HAVE A QUALIFIED ELECTRICIAN CHECK THE RECEPTACLE.

 Improper connection of the equipment-grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.



- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
- Use only 3-wire extension cords that have grounding type plugs and receptacles that accept
 the tool's plug.
- Repair or replace damaged or worn cord immediately.

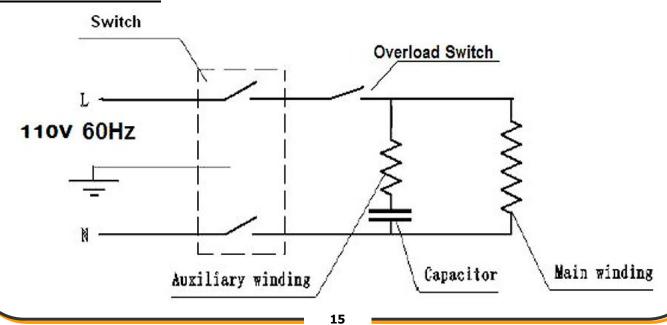
Extension Cord Safety

Extension cord should be in good condition and meet the minimum wire gauge requirements listed below:

		LENGTH	
AMP RATING	25ft	50ft	100ft
0-6	16	16	16
7-10	16	16	14
11-12	16	16	14
13-16	14	12	12
17-20	12	12	10
21-30	10	10	No
	WIRE GAUGE		

An undersized cord decreases line voltage, causing loss of power and overheating. All cords should use a ground wire and plug pin. Replace any damaged cords immediately.

WIRING DIAGRAM





OPERATING CONTROLS AND ADJUSTMENTS

CAUTION: Always wear proper eye protection with side shields, safety footwear, and leather gloves to protect from , chips, dust, burrs, and slivers.

Raising and Lowering the Head

 The head (A) Fig. 4, is raised and lowered by means of the lever (B).

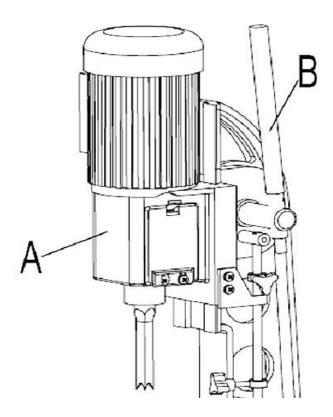


Fig 4



Fence

• The fence (A) Fig. 5, can be moved in or out by loosening lever (B), sliding fence to the desired position and tightening lever (B).

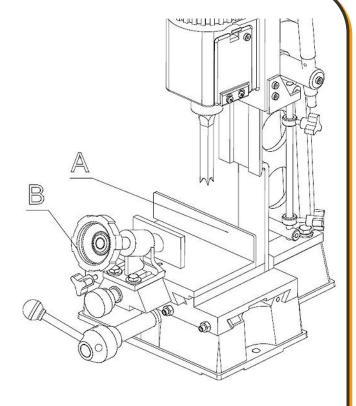
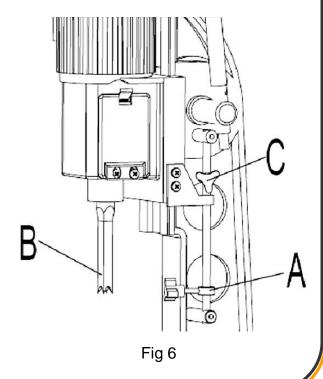


Fig 5

Depth Stop

 A depth stop guide (A) Fig. 6, is provided to limit the depth of the chisel (B). To adjust the depth stop guide (A), loosen handle (C) and lower head until the chisel (B) is at the desired depth. Lower depth stop guide (A) until it is at the desired depth, tighten handle (C).



17



Installing Chisel and Bit

- Loosen lock screw, shown in Figure
 7.
- Insert chisel bushing (with the hole facing forward) into the head.
 Tighten the screw just enough to hold the chisel in place.

Note: Set the slot in the side of the chisel to the left or right, NOT to the front or back. This will allow chips to escape when cutting mortises.

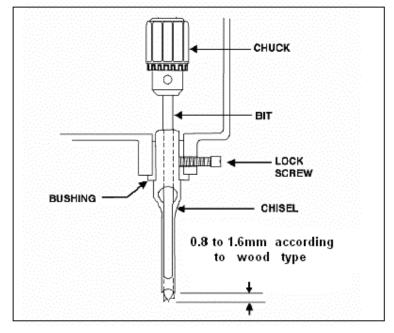


Fig 7

- 3. Push the chisel up as far as possible into the head. Then lower the chisel approximately 1/32" 1/16" (0.8mm to 1.6mm), depending on the type of wood being worked. Tighten the screw to hold chisel in place.
- 4. Push bit up through the chisel opening as far as it will go. Lock the drill bit in place with the chuck key.
- 5. Loosen screw and push chisel up against the bushing, then tighten screw. This should provide the proper distance between the points of the chisel and the bit.



MAINTENANCE

The Mortiser requires only minor maintenance, such as cleaning and lubrication and routine adjustment and sharpening of the chisel and bit.

Dust the machine down after each use and, as necessary, use light applications of oil or grease to lubricate linkages, moving parts, etc.

Sharpening Chisel and Bit

The chisel and bit should be kept sharp for best performance. Blunt edges will give inaccurate mortises and can lead to overheating and breakage to chisel or bit. If chisel and bit are badly worn and become difficult to sharpen, they should be replaced.

 Sharpen the bit by using a small, smooth file, following the original shape of the bit. File the inside edge of the spur, the sides of the brad point, and the cutting edge inwards toward the flute of the bit. See Fig. 8. Do not file the outside edge of the spur as this will affect the diameter of the bit.

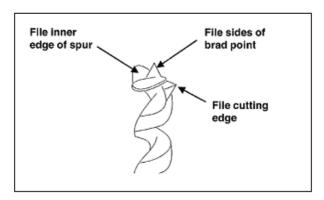


Fig 8

 Sharpen the chisel with a mortise chisel cutter with the correct size pilot. (Pilot size will differ depending on the size of your chisel). Two or three turns of the cutter in a carpenter's brace chuck should be enough to sharpen the chisel, as shown in Fig. 9.

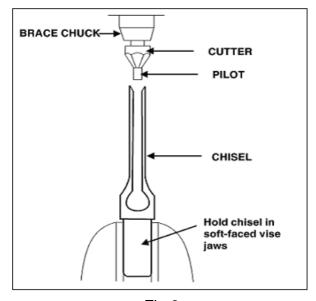


Fig 9



- 3. Use a small, triangular, smooth file to relieve the inner corners of the chisel. See Fig.10.
- 4. Remove any burrs from the outside of the chisel with a fine oilstone.

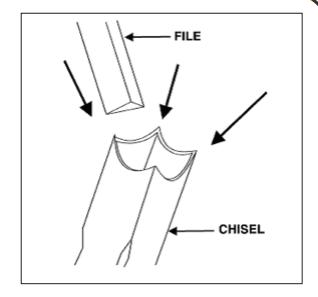
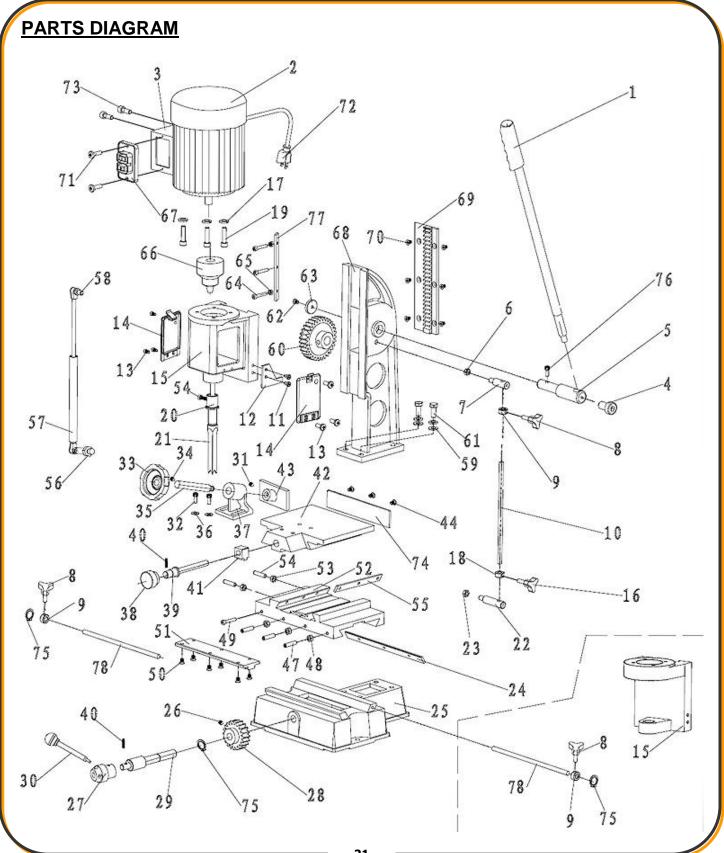


Fig 10







Parts List

Item	Description	Qty.
1	Handle	1 1
2	Motor	1
3	Switch Box	1
4	Screw	1
5	Gear Shaft	1
6	Screw	1
7		1
	Screw	1
8	Handle	
9	Setting Collar	1
10	Guide Column	1
11	Screw	2
12	Localizer	1
13	Screw	6
14	Cover	2
15	Gear Casing	1
16	Handle	1
17	Washer	4
18	Setting Collar	1
19	Bolt	4
20	Chisel Bushing	1
21	Chisel	1
22	Screw	1
23	Nut	1
24	Drift	1
25	Base	1
26	Screw	2
27	Knob	1
28	Gear	1
29	Gear Shaft	1
30	Handle	1
31	Screw	1
32	Screw	2
33	Knob	1

Item Description Qty. 34 Screw 1 35 Lead Screw 1 36 Washer 2 37 Connecting Bend 1 38 Knob 1 39 Lead Screw 1 40 Pin 2 41 Lead Screw 1 41 Lead Screw 1 42 Table 1 43 Clamp Plate 1 44 Screw 2 47 Screw 1 48 Nut 2 49 Screw 1 50 Screw 1 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 1 59 Washer 4 60 Gear <th>14 0 100</th> <th>Description</th> <th>O4</th>	14 0 100	Description	O4
35 Lead Screw 1 36 Washer 2 37 Connecting Bend 1 38 Knob 1 39 Lead Screw 1 40 Pin 2 41 Lead Nut 1 42 Table 1 43 Clamp Plate 1 44 Screw 2 47 Screw 1 48 Nut 2 49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 1 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift	Item	Description	Qty.
36 Washer 2 37 Connecting Bend 1 38 Knob 1 39 Lead Screw 1 40 Pin 2 41 Lead Nut 1 42 Table 1 43 Clamp Plate 1 44 Screw 2 47 Screw 1 48 Nut 2 49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw			
37 Connecting Bend 1 38 Knob 1 39 Lead Screw 1 40 Pin 2 41 Lead Nut 1 42 Table 1 43 Clamp Plate 1 44 Screw 2 47 Screw 1 48 Nut 2 49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer			
38 Knob 1 39 Lead Screw 1 40 Pin 2 41 Lead Nut 1 42 Table 1 43 Clamp Plate 1 44 Screw 2 47 Screw 1 48 Nut 2 49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3			
39 Lead Screw 1 40 Pin 2 41 Lead Nut 1 42 Table 1 43 Clamp Plate 1 44 Screw 2 47 Screw 1 48 Nut 2 49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3			
40 Pin 2 41 Lead Nut 1 42 Table 1 43 Clamp Plate 1 44 Screw 2 47 Screw 1 48 Nut 2 49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	38	Knob	
41 Lead Nut 1 42 Table 1 43 Clamp Plate 1 44 Screw 2 47 Screw 1 48 Nut 2 49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	39	Lead Screw	1
42 Table 1 43 Clamp Plate 1 44 Screw 2 47 Screw 1 48 Nut 2 49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	40	Pin	2
43 Clamp Plate 1 44 Screw 2 47 Screw 1 48 Nut 2 49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	41	Lead Nut	1
44 Screw 2 47 Screw 1 48 Nut 2 49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	42	Table	1
47 Screw 1 48 Nut 2 49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	43	Clamp Plate	1
47 Screw 1 48 Nut 2 49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	44	Screw	2
48 Nut 2 49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3			
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49 Screw 1 50 Screw 3 51 Rack 1 52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	48	Nut	2
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52 Sliding Plate 1 53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	50	Screw	3
53 Washer 3 54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	51	Rack	1
54 Screw 3 55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	52	Sliding Plate	1
55 Drift 4 56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	53	Washer	3
56 Screw 4 57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	54	Screw	3
57 Gas Spring 1 58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	55	Drift	4
58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	56	Screw	4
58 Screw 1 59 Washer 4 60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	57	Gas Spring	1
60 Gear 1 61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	58		1
61 Bolt 4 62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	59	Washer	4
62 Screw 1 63 Drift 1 64 Screw 3 65 Washer 3	60	Gear	1
63 Drift 1 64 Screw 3 65 Washer 3	61	Bolt	4
64 Screw 3 65 Washer 3	62	Screw	1
65 Washer 3	63	Drift	1
	64	Screw	3
66 Chuck 1	65	Washer	3
	66	Chuck	1



Item	Description	Qty.
67	Switch	1
68	Column	1
69	Rack	1
70	Screw	6
71	Screw	2
72	Power Cord	1

Item	Description	Qty.
73	Screw	4
74	angle block	1
75	(closing) ring	1
76	Screw	1
77	Drift	1
78	Shaft	2



NOTES



NOTES



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