



3/8IN. ELECTRIC DRILL

OWNER'S MANUAL



WARNING:

Read carefully and understand all **ASSEMBLY AND OPERATION INSTRUCTIONS** before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Item# 45983

Thank you very much for choosing an Ironton product! For future reference, please complete the owner's record below:

Model: _____ Purchase Date: _____

Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

This machine is designed for certain applications only. The distributor cannot be responsible for issues arising from modification. We strongly recommend this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted the distributor to determine if it can or should be performed on the product.

For technical questions please call **1-800-222-5381**.

INTENDED USE

Your Ironton Electric Drill has been designed for drilling timber and metal.

TECHNICAL SPECIFICATIONS

Voltage:	110V/60Hz
Power:	400 Watt, 3.8 Amp
Drilling:	3/8in.
No-load speed:	0-2600RPM
Drill chuck:	1/16in. - 3/8in.
Power supply cable,	Total 6-1/2ft.

GENERAL SAFETY RULES



WARNING: Read and understand all instructions. Failure to follow all instructions listed below may result in serious injury.



CAUTION: Do not allow persons to operate or assemble this Electric Drill until they have read this manual and have developed a thorough understanding of how the Electric Drill works.



WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors that cannot be built into this product, but must be supplied by the operator.

IMPORTANT SAFETY CONSIDERATIONS



WARNING! Read all safety warnings and all instructions. Failure to follow all 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 all of the warnings refers to your corded 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 grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) 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.
- 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 a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- 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 energizing 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 jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry 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 dust collection 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 making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- e) 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.

ELECTRIC DRILL USE AND CARE

- **Do not modify the Electric Drill in any way.** Unauthorized modification may impair the function and/or safety and could affect the life of the equipment. There are specific applications for which the Electric Drill was designed.
- **Always check of damaged or worn out parts before using the Electric Drill.** Broken parts will affect the Electric Drill operation. Replace or repair damaged or worn parts immediately.
- **Store idle Electric Drill.** When Electric Drill is not in use, store it in a secure place out of the reach of children. Inspect it for good working condition prior to storage and before re-use.

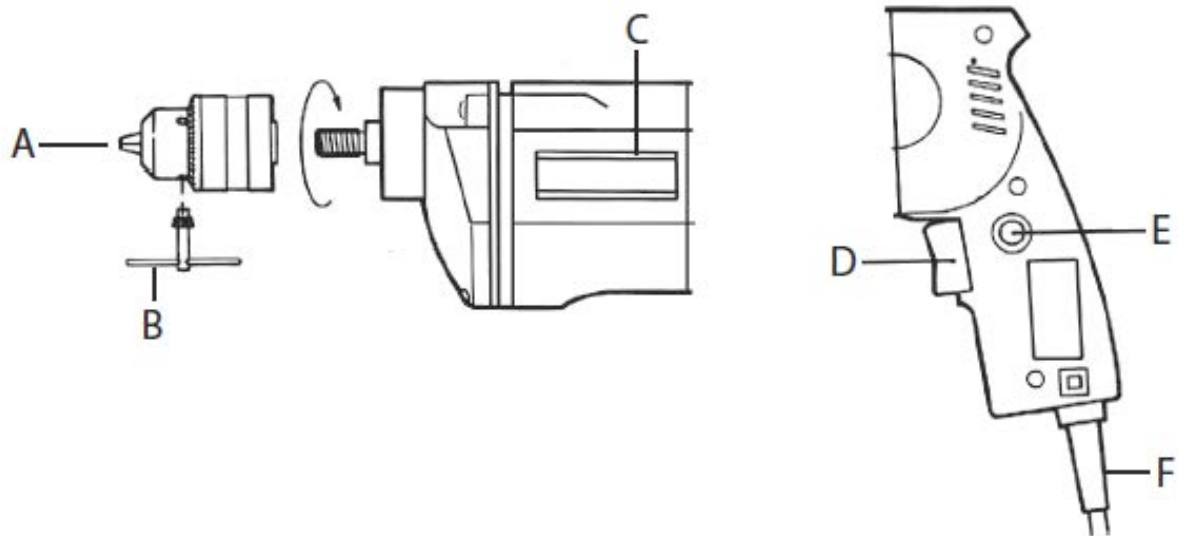
Before drilling into walls, ceilings etc., ensure that there are no concealed power cables or pipes in the cavity.

Keep the cord clear of the drill accessory; do not wrap the cord around your arm or wrist.

Wear ear protectors with Electric drills. Exposure to noise can cause hearing loss.

- This drill is not designed for powering auxiliary devices, such as a winch.
- Do not use near steam or inflammable liquids.
- Use only sharp drill bits.
- Remove the plug from the socket for all adjusting and cleaning work.
- Protect the cord against any damage. Oil and acids can damage the cord.
- Do not carry the device by the cord.
- Do not remove the plug from the socket by pulling the cord.
- Make sure before inserting the plug that the switch is not locked on.
- The power supply cord must only be replaced by trained personnel.
- When using a cable drum, uncoil the cable completely.
- Do not overload the drill.
- Secure all workpieces.
- Do not allow children to use the drill.
- Make sure you have a secure stance on ladders or scaffolding when using the drill.

OPERATION



- A. Gear rim chuck
- B. Chuck key
- C. Type plate
- D. On/off switch
- E. Lock button
- F. Power supply cable

Controls

It is important to understand the functions of the various controls. Please see below how and when to use the on/off switch, speed control, speed pre-selector, forward/reverse control.

Familiarize yourself with these controls before first use of your new drill.

On/off switch

1. Turn the drill on by depressing the trigger switch. To turn the tool off, release the trigger switch.
2. The tool can be locked on by first depressing the trigger switch and then pressing the lock-on button.
3. Once the lock-on button has been engaged, the switch will remain locked on.
4. To turn the tool off, press and release the trigger switch.

Speed control

1. The speed can be varied according to the pressure applied to the trigger switch. The harder you squeeze, the faster the rotation from zero up to a pre-set maximum.

Maximum pre-set speed selection

1. The speed selection dial can be used to pre-set any required speed by turning the dial. Once you have set the dial you are then limited to the speed range of zero to the speed selected.

Forward/reverse lever

1. The direction of rotation of the chuck is controlled by the forward/reverse lever located above the trigger switch.
2. For forward rotation: move the lever to the left.
3. For reverse rotation: move the lever to the right.

Note. Do not change the direction of rotation while the chuck is still in motion.

Inserting a bit

1. Disconnect the drill from the power supply.
2. Twist the chuck sleeve to open the jaws slightly larger than the diameter of the bit you are inserting.
3. Insert the drill bit up to its flutes making sure it is centered in the jaws.
4. Tighten the chuck by turning the chuck sleeve.
5. Once the jaws have clamped evenly around the drill bit, use the chuck key to tighten the chuck fully.
6. Always tighten the chuck using all three holes. This will ensure a firm grip on the accessory.
7. Occasionally check the tightness of the chuck during drilling as it may vibrate loose.
8. Reconnect the drill to the supply, switch on and check that the bit runs true and does not wobble indicating that it is not sitting square. Adjust if necessary after again disconnecting the tool from the power supply.

Removing a bit

1. Disconnect the drill from the power supply.
2. Use the chuck key to loosen the chuck.
3. Remove the bit.

Note. Use gloves to handle drill bits and other sharp accessories. Also be aware that drill bits can be very hot after even a short period of use.

Drilling in all materials

1. Always use sharp drill bits.
2. Mark the place where the hole is to be drilled.
3. Commence with a slow speed to start the hole then increase the speed once the hole has been started.
4. Reduce your pressure on the tool when the drill bit is about to break through the material.

Drilling in metal

1. Support thin material on a scrap piece of wood.
2. Use a punch to mark the position of the hole. Careful use of the variable speed feature allows you to start holes without center punching. Operate the drill at a low speed until you start the hole.
3. If drilling a large hole, use a small drill at first to establish a pilot hole then use the required large size drill bit.
4. Use only HSS (high speed steel) drill bits or those recommended for metal use.
5. When drilling into iron or steel, use a cooling lubricant such as thin oil.
6. With aluminum, use turpentine or paraffin.
7. With brass, copper and cast iron, use no lubricant but withdraw the drill regularly to assist cooling.

Drilling in wood

1. Mark the place where you want to drill with a punch or nail.
2. To avoid splintering on breakthrough either clamp a piece of scrap wood to the back of the work piece or continue the hole from the back of the work piece when the drill bit first breaks through.

MAINTENANCE

Maintain your Electric Drill. It is recommended that the general condition of any Electric Drill be examined before it is used. Keep your Electric Drill in good repair by adopting a program of conscientious repair and maintenance. Have necessary repairs made by qualified service personnel.

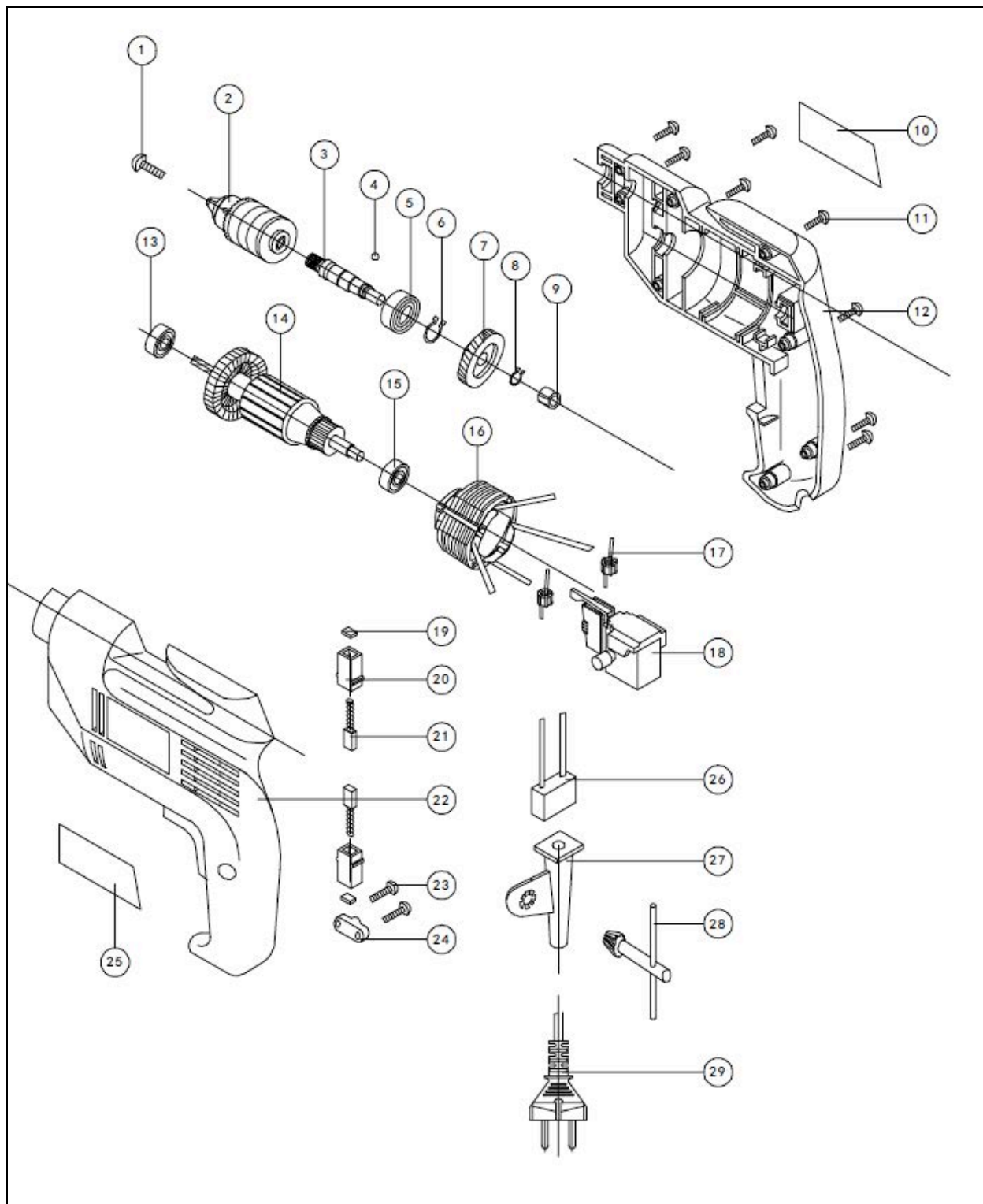
1. Your tool has been designed to operate over a long period of time with a minimum of maintenance.
2. Continuous satisfactory operation depends upon proper tool care and regular cleaning.



WARNING: Before performing any maintenance, switch off and disconnect from the power supply.

3. When not in use the drill should be stored in a dry, frost-free location not within the reach of children.
4. Keep ventilation slots of the drill clean at all times and prevent any foreign matter from entering.
5. If the housing of the drill requires cleaning do not use solvents but a moist soft cloth only. Check carbon brushes in the case of excessive sparking.

DIAGRAM AND PARTS LIST



NO.	Part Name	QT	NO.	Part Name	QT
1	spin screw		16	Stator	
2	Drill Chuck		17	Inductance	
3	Output Shaft		18	Switch	
4	woodruff key		19	holder cover	
5	Ball Bearing		20	Brush holder	
6	Retaining Ring		21	Brush	
7	Gear		22	Left housing	
8	Retaining Ring		23	Screw	
9	ogalloy		24	Cable restraint	
10	trademark		25	Nameplate	
11	screw		26	Capacitor	
12	Right housing		27	Cable Sheathing	
13	Ball Bearing		28	Chuck wrench	
14	Rotor		29	Plug	
15	Ball Bearing				

For technical questions please call **1-800-222-5381**.



WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

WARRANTY

THIS WARRANTY FORM SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

PURCHASED FROM: _____

DATE PURCHASED: _____

The warranty is only made available by returning the tool to the place of purchase with a confirmed register receipt.

6-MONTH REPLACEMENT WARRANTY

Your IRONTON tool is covered by a 6-month replacement warranty from the date of purchase. Industrial or high-frequency use will void this warranty. The warranty covers faulty parts or workmanship.

WARNING

The following actions will result in the warranty being void.

- If the tool has been operated on a supply voltage other than that specified on the unit.
- If the tool shows signs of damage or defects caused by or resulting from abuse accidents or alterations.
- If the tool has been disassembled or tampered with in any way.

Warranty excludes consumable parts such as brushes, batteries, sanding pads, blades, discs and drill bits.



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