CAUTION:
Read and follow ALL safety rules and instructions before operating this equipment.

SAVE THIS MANUAL FOR FUTURE REFERENCE

Thank You for Buying A Craftsman Drill

CRAFTSMAN®
3/8 Inch Reversible Drill
DOUBLE INSULATED

Rules for Safe Operation
Warranty
Operation
Maintenance
Repair Parts
RULES FOR SAFE OPERATION

DOUBLE INSULATION is a concept in safety, in electric power tools, which eliminates the need for the usual three wire grounded power cord and grounded supply system. Wherever there is electric current in the tool there are two complete sets of insulation to protect the user. All exposed metal parts are isolated from internal metal motor components with protecting insulation.

IMPORTANT - Servicing of a tool with double insulation requires extreme care and knowledge of the system and should be performed only by a qualified service technician. For service we suggest you return the tool to your nearest Sears Store for repair. Always use original factory replacement parts when servicing.

\[ \text{\textbullet WARNING:} \]

Do not attempt to operate this tool until you have read thoroughly and understand completely all instructions, safety rules, etc. contained in this manual. Failure to comply can result in accidents involving fire, electric shock, or serious personal injury. Save owner’s manual and review frequently for continuing safe operation, and instructing others who may use this tool.

READ ALL INSTRUCTIONS

1. KNOW YOUR POWER TOOL. Read owner’s manual carefully. Learn its applications and limitations as well as the specific potential hazards related to this tool.

2. GUARD AGAINST ELECTRICAL SHOCK by preventing body contact with grounded surfaces. For example: Pipes, radiators, ranges, refrigerator enclosures.

3. KEEP GUARDS IN PLACE and in working order.

4. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.

5. AVOID DANGEROUS ENVIRONMENT. Don’t use power tool in damp or wet locations or expose to rain. Keep work area well lit.

6. KEEP CHILDREN AND VISITORS AWAY. All visitors should wear safety glasses and be kept a safe distance from work area. Do not let visitors contact tool or extension cord.

7. STORE IDLE TOOLS. When not in use tools should be stored in a dry and high or locked-up place - out of the reach of children.

8. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.

9. USE RIGHT TOOL. Don't force small tool or attachment to do the job of a heavy duty tool. Don't use tool for purpose not intended - for example - A circular saw should never be used for cutting tree limbs or logs.

10. WEAR PROPER APPAREL. Do not wear loose clothing or jewelry that can get caught in tool's moving parts and cause personal injury. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair and keep it from being drawn into nearby air vents.

11. ALWAYS WEAR SAFETY GLASSES. Everyday eyeglasses have only impact-resistant lenses; they are NOT safety glasses.

12. PROTECT YOUR LUNGS. Wear a face mask or dust mask if operation is dusty.

13. PROTECT YOUR HEARING. Wear hearing protection during extended periods of operation.

14. DON'T ABUSE CORD. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.

15. SECURE WORK. Use clamps or a vise to hold work. Both hands are needed to operate the tool.

16. DON'T OVERREACH. Keep proper footing and balance at all times. Do not use on a ladder or unstable support.

17. MAINTAIN TOOLS WITH CARE. Keep tools sharp at all times, and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

18. DISCONNECT TOOLS. When not in use, before servicing, or when changing attachments, blades, bits, cutters, etc., all tools should be disconnected from power supply.

19. REMOVE CHUCK KEY. Form habit of checking to see that chuck key is removed from chuck before turning tool on.

20. AVOID ACCIDENTAL STARTING. Don’t carry plugged-in tools with finger on switch. Be sure switch is off when plugging in.
RULES FOR SAFE OPERATION (Continued)

21. 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. A wire gage size (A.W.G.) of at least 16 is recommended for an extension cord 100 feet or less in length. A cord exceeding 100 feet is not recommended. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

22. OUTDOOR USE EXTENSION CORDS. When tool is used outdoors, use only extension cords suitable for use outdoors. Outdoor approved cords are marked with the suffix W-A, for example - SJTW-A or SJOW-A.

23. KEEP BITS CLEAN AND SHARP. Sharp bits minimize stalling and kickback.

24. KEEP HANDS AWAY FROM DRILLING AREA. Keep hands away from bits. Do not reach underneath work while bit is rotating. Do not attempt to remove material while bit is rotating.

25. NEVER USE IN AN EXPLOSIVE ATMOSPHERE. Normal sparking of the motor could ignite fumes.

26. INSPECT TOOL CORDS PERIODICALLY and if damaged, have repaired at your nearest Sears Repair Center. Stay constantly aware of cord location.

27. INSPECT EXTENSION CORDS PERIODICALLY and replace if damaged.

28. KEEP HANDLES DRY, CLEAN, AND FREE FROM OIL AND GREASE. Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum-based products or any strong solvents to clean your tool.

29. STAY ALERT. Watch what you are doing and use common sense. Do not operate tool when you are tired. Do not rush.

30. 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. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless indicated elsewhere in this instruction manual.

31. DO NOT USE TOOL IF SWITCH DOES NOT TURN IT ON AND OFF. Have defective switches replaced by an authorized service center.

32. DRILLING INTO ELECTRICAL WIRING IN WALLS CAN CAUSE DRILL BIT AND CHUCK TO BECOME ELECTRICALLY LIVE. Do not touch the chuck or metal housing when drilling into a wall; grasp only the insulated handle(s) provided on the tool.

33. INSPECT FOR and remove all nails from lumber before drilling.

34. DRUGS, ALCOHOL, MEDICATION. Do not operate tool while under the influence of drugs, alcohol, or any medication.

35. WHEN SERVICING USE ONLY IDENTICAL CRAFTSMAN REPLACEMENT PARTS.

36. POLARIZED PLUGS. To reduce the risk of electric shock, this tool has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

37. SAVE THESE INSTRUCTIONS. Review them frequently and use them to instruct others who may use this tool. If you loan someone this tool, loan them these instructions also.

Look for this symbol to point out important safety precautions. It means attention!!! Your safety is involved.

WARNING:

The operation of any drill can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields, available at Sears Retail Stores.
INTRODUCTION

CONGRATULATIONS AND THANK YOU FOR BUYING THIS CRAFTSMAN 3/8 INCH DRILL. It has been designed, engineered and manufactured to provide you with Sears high standard of dependability, ease of operation, and operator safety. Properly cared for, it will give you years of rugged, trouble-free performance.

⚠ CAUTION:

Carefully read through this entire owner's manual before using your new drill. Pay close attention to the Rules For Safe Operation, Warnings and Cautions. If you use your drill properly and only for what it is intended, you will enjoy years of safe, reliable service.

Your drill has many features for making your drilling operations more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this drill making it easy to maintain and operate.

FULL ONE YEAR WARRANTY ON CRAFTSMAN DRILL

If this Craftsman Drill fails to give complete satisfaction within one year from the date of purchase, RETURN IT TO THE NEAREST SEARS STORE IN THE UNITED STATES, and Sears will replace it, free of charge.

If this Craftsman Drill is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., DEPT. 817 WA, Hoffman Estates, IL 60179

TABLE OF CONTENTS

1. Rules for Safe Operation .......................................................... 2-3
2. Introduction and Product Specifications .................................. 4
3. Warranty and Table of Contents ............................................. 4
4. Operation ............................................................................. 5-11
5. Maintenance and Accessories .............................................. 12
6. Exploded View and Parts List ............................................... 13
7. Parts Ordering / Service ....................................................... 14
WARNING:
Always wear safety goggles or safety glasses with side shields when operating your drill. Failure to do so could result in dust, shavings, loose particles or foreign objects being thrown into your eyes, causing possible serious injury.

KNOW YOUR ELECTRIC DRILL
Before attempting to use your drill, familiarize yourself with all operating features and safety requirements. See Figure 1.

WARNING:
If any parts are missing, do not operate your drill until the missing parts are replaced. Failure to do so could result in possible serious personal injury.

ELECTRICAL CONNECTION
Your drill has a precision built electric motor. It should be connected to a power supply that is 120 volts, 60 Hz, AC only (normal household current). Do not operate this tool on direct current (DC). A voltage drop of more than 10 percent will cause a loss of power and the motor will overheat. If your tool does not operate when plugged into an outlet, double-check the power supply.

WARNING:
Do not allow familiarity with your drill to make you careless. Remember that a careless fraction of a second is sufficient to inflict severe injury.

MODEL 315.101210
SINGLE SPEED WITH 3/8 IN. CHUCK

CHUCK
LOCK-ON BUTTON
FORWARD-REVERSE LEVER
TO STORE
TO REMOVE
SWITCH TRIGGER
CHUCK KEY
CHUCK KEY STORAGE AREA

Fig. 1 (a)
OPERATION

MODEL 315.101220
VARIABLE SPEED WITH 3/8 IN. CHUCK

Fig. 1 (b)

MODEL 315.101230
ADJUSTABLE VARIABLE SPEED WITH 3/8 IN. KEYLESS CHUCK

Fig. 1 (c)
SWITCH

See Figure 2.

To turn your drill ON, depress the switch trigger. Release switch trigger to turn your drill OFF.

LOCK-ON BUTTON

See Figure 2.

Your drill is equipped with a "lock-on" feature, which is convenient when continuous drilling for extended periods of time is required. To lock-on, depress the switch trigger, push in and hold the lock-on button located on the side of the handle, then release switch trigger. Release lock-on button and your drill will continue running.

To release the lock, depress the switch trigger and release it.

If you have the "lock-on" feature engaged during use and your drill becomes disconnected from power supply, disengage the "lock-on" feature immediately.

⚠️ WARNING:

Before connecting your drill to power supply source, always check to be sure it is not in "lock-on" position (depress and release switch trigger). Failure to do so could result in accidental starting of your drill resulting in possible serious injury. Also, do not lock the trigger on jobs where your drill may need to be stopped suddenly.

REVERSIBLE

See Figure 3.

Your drill has the feature of being reversible. The direction of chuck rotation is controlled by a lever located above the switch trigger. With your drill held in normal operating position, the rotation lever should be positioned to the left of the switch for drilling. The direction of rotation is reversed when the lever is to the right of the switch.

THE DESIGN OF THE SWITCH WILL NOT PERMIT CHANGING THE DIRECTION OF ROTATION WHILE THE DRILL IS RUNNING. RELEASE THE SWITCH TRIGGER AND ALLOW THE DRILL TO STOP BEFORE CHANGING ITS DIRECTION.

NOTE: YOUR DRILL WILL NOT RUN UNLESS THE SWITCH LEVER IS PUSHED FULLY TO THE LEFT OR RIGHT.

KEYLESS CHUCK (Model 101230)

See Figure 4.

Your new drill has a keyless chuck. As the name implies, you can hand tighten or release drill bits in the chuck jaws. Grasp and hold the collar of the chuck with one hand. Rotate the chuck body with your other hand. The arrows on the chuck indicate which direction to rotate the chuck body in order to LOCK (tighten) or UNLOCK (release) the drill bit.

⚠️ WARNING:

Do not hold chuck body with one hand and use the power of your drill to tighten the chuck jaws on your drill bits. The chuck body could slip in your hand or your hand could slip and come in contact with a rotating drill bit. This could cause an accident resulting in serious personal injury.
OPERATION

CHUCK KEY (Models 101210 and 101220)
See Figure 5.
A chuck key has been provided for use when installing or removing bits. It is also used when removing the chuck. (See chuck removal section).

CHUCK KEY STORAGE (Models 101210 and 101220)
See Figure 5.
When not in use, the chuck key can be placed in the storage area located on the bottom portion of drill handle.

VARIABLE SPEED (Model 101220)
See Figure 6.
If you have this model, it has a variable speed switch designed to allow operator control of speed and torque limits. The speed and torque of your drill can be increased by depressing the switch trigger.

NOTE: Depress switch trigger all the way for maximum speed and torque of your drill. Depress switch trigger only part of the way for less speed and torque.

VARIABLE SPEED (Model 101230)
See Figure 6.
If you have this model, it has a variable speed control selector designed to allow operator control and adjustment of speed and torque limits. The speed and torque of your drill can be increased or decreased by rotating the variable speed control selector in the direction of the arrows shown in figure 6.

NOTE: Hold your drill in normal operating position and turn the variable speed control selector clockwise to increase the speed and torque of your drill. Turn counterclockwise to decrease the speed and torque of your drill.

If you desire to lock the switch on at a given speed, depress the switch trigger, push in and hold the lock-on button, and release the switch trigger. Next, adjust the variable speed control selector until the desired speed is reached.

NOTE: IF THE VARIABLE SPEED CONTROL SELECTOR IS FULLY TURNED IN THE COUNTERCLOCKWISE DIRECTION (ZERO SETTING) YOUR DRILL MAY NOT RUN.

IF YOU DESIRE NOT TO USE THE VARIABLE SPEED CONTROL SELECTOR, TURN IT IN THE FULL CLOCKWISE DIRECTION. THIS WILL ALLOW THE SPEED OF YOUR DRILL TO BE FULLY CONTROLLED BY THE AMOUNT OF SWITCH TRIGGER DEPRESSION.

Avoid running your drill at low speeds for extended periods of time. Running at low speeds under constant usage may cause your drill to become overheated. If this occurs, cool your drill by running it without a load and at full speed.

The following guidelines may be used in determining correct speed for various applications:
LOW speed is ideal when minimum speed and power is required. For example: starting holes without center punching, driving screws, mixing paint, and drilling in ceramics.

MEDIUM speed is suitable for drilling hard metals, plastics, and laminates.
HIGH speed produces best results when maximum power is required. For example: drilling in wood; soft metals such as aluminum, brass, and copper; and when using driving accessories.
**WARNING:**

Your drill should never be connected to power supply when you are assembling parts, making adjustments, installing or removing drill bits, or when not in use. Disconnecting your drill will prevent accidental starting that could cause serious injury.

**TO INSTALL BITS**

*See Figure 7.*

1. **UNPLUG YOUR DRILL.**

2. **WARNING:**

   Failure to unplug your drill could result in accidental starting causing serious injury.

3. Open or close the chuck jaws to a point where the opening is slightly larger than the drill bit you intend to use. Also, raise the front of your drill slightly to keep the drill bits from falling out of the chuck jaws.

4. Insert drill bit into chuck the full length of the jaws.

5. **WARNING:**

   Do not insert drill bit into chuck jaws and tighten as shown in figure 8. This could cause drill bit to be thrown from your drill resulting in possible serious personal injury or damage to your chuck.

6. On models 315.101210 and 315.101220 tighten chuck jaws securely, using the chuck key provided. On model 315.101230 tighten the chuck jaws on drill bit by grasping and holding the collar of the chuck with one hand, while rotating the chuck body with your other hand. **NOTE:** Rotate the chuck body in the direction of the arrow marked LOCK to tighten chuck jaws.

5. **DO NOT USE A WRENCH TO TIGHTEN OR LOOSEN THE CHUCK JAWS.**

6. On models 315.101210 and 315.101220 remove chuck key and return to storage area.
OPERATION

TO REMOVE BITS

1. UNPLUG YOUR DRILL.

⚠️ WARNING:

Failure to unplug your drill could result in accidental starting causing serious injury.

2. On models 315.101210 and 315.101220 loosen chuck jaws using the chuck key provided.
   On model 315.101230 loosen chuck jaws by grasping and holding the collar of the chuck with one hand and rotating the chuck body in the direction of the arrow marked UNLOCK with your other hand.

3. DO NOT USE A WRENCH TO TIGHTEN OR LOOSEN THE CHUCK JAWS.

4. Remove drill bit from chuck jaws.

5. On models 315.101210 and 315.101220 remove chuck key and return it to storage area.

DRILLING

See Figure 9.

1. Depress and release switch trigger to be sure your drill is in OFF position before connecting it to power supply.

2. Check the direction of rotation lever for correct setting (forward or reverse). See Figure 3.

3. Secure the material to be drilled in a vise or with clamps to keep it from turning as the drill bit rotates.

4. Plug your drill into power supply source.

5. Hold your drill firmly and place bit at point to be drilled.

6. Depress the switch trigger to start your drill. Do not lock the switch ON for jobs where your drill may need to be stopped suddenly.

7. Move the drill bit into the workpiece applying only enough pressure to keep the bit cutting. Do not force your drill or apply side pressure to elongate a hole. Let your drill and bit do the work. See Figure 9.

⚠️ WARNING:

Be prepared for binding or breakthrough. When these situations occur, drill has a tendency to grab and kick in the opposite direction and could cause loss of control when breaking through material. This loss of control can result in possible serious injury.

When drilling hard, smooth surfaces use a center punch to mark the desired hole location. This will prevent the drill bit from slipping off center as the hole is started.

When drilling metals, use a light oil on the drill bit to keep it from overheating. The oil will prolong the life of the bit and increase the drilling action.

If the bit jams in the workpiece or if your drill stalls, stop the tool immediately. Remove the bit from the workpiece and determine the reason for jamming.
MAINTENANCE

⚠️ WARNING:
When servicing use only identical Craftsman replacement parts. Use of any other parts may create a hazard or cause product damage.

GENERAL
Only the parts shown on parts list, page 13, are intended to be repaired or replaced by the customer. All other parts represent an important part of the double insulation system and should be serviced only by a qualified Sears service technician.

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, carbon dust, etc.

⚠️ WARNING:
Always wear safety goggles or safety glasses with side shields during power tool operation or when blowing dust. If operation is dusty, also wear a dust mask.

⚠️ WARNING:
Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc. come in contact with plastic parts. They contain chemicals that can damage, weaken, or destroy plastic.

ACCESSORIES

The following recommended accessories are currently available at Sears retail stores.

- High Speed Bits (For wood or metal) 3/8 In. Max.
- Masonry Bits 1/2 In. Max.
- Hole Saws 1 In. Max.
- 3/8 In. Chuck (9-2975)
- Keyless Chuck (9-20988)

⚠️ WARNING: The use of attachments or accessories not listed above might be hazardous.

EXTENSION CORDS
The use of any extension cord will cause some loss of power. To keep the loss to a minimum and to prevent tool overheating, use an extension cord that is heavy enough to carry the current the tool will draw.

A wire gage size (A.W.G.) of at least 16 is recommended for an extension cord 100 feet or less in length. When working outdoors, use an extension cord that is suitable for outdoor use. The cord’s jacket will be marked WA.

⚠️ WARNING:
Check extension cords before each use. If damaged replace immediately. Never use tool with a damaged cord since touching the damaged area could cause electrical shock resulting in serious injury.

⚠️ CAUTION:
Keep extension cords away from the drilling area and position the cord so that it will not get caught on lumber, tools, etc. during drilling operation.

LUBRICATION
All of the bearings in this tool are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions. Therefore, no further lubrication is required.
OPERATION

CHUCK REMOVAL
See Figure 10.
The chuck must be removed in order to use some accessories.
To remove:

1. **UNPLUG YOUR DRILL.**

![Image of chuck removal process]

**WARNING:**
Failure to unplug your drill could result in accidental starting causing serious injury.

2. On models 315.101210 and 315.101220 insert chuck key into chuck and tap sharply with a mallet in a counterclockwise direction.
   On model 315.101230 insert a 5/16 inch or larger Allen wrench (hex key wrench) into the chuck of your drill and tighten the chuck jaws securely. Tap the Allen wrench sharply with a mallet in a counterclockwise direction.

3. This will loosen the chuck on the spindle.

4. It can now be unscrewed by hand. See Figure 10.

5. On models 315.101210 and 315.101220 remove chuck key and return to storage area.

TO RETIGHTEN A LOOSE CHUCK
The chuck may at times become loose on the spindle and develop a wobble.

To tighten, follow these steps:

1. **UNPLUG YOUR DRILL.**

![Image of chuck tightening process]

**WARNING:**
Failure to unplug your drill could result in accidental starting causing serious injury.

2. On models 315.101210 and 315.101220 insert chuck key into chuck and tap sharply with a mallet in clockwise direction.
   On model 315.101230 insert Allen wrench into chuck and tighten chuck jaws securely. Tap Allen wrench sharply with a mallet in a clockwise direction.

3. This will tighten the chuck on spindle.

4. On models 315.101210 and 315.101220 remove chuck key and return to storage area.
CRAFTSMAN 3/8 INCH DRILL
MODEL NOS. 315.101210 / 315.101220 / 315.101230

The model number will be found on a plate attached to the motor housing. Always mention the model number in all correspondence regarding your 3/8 INCH DRILL or when ordering repair parts.

SEE BACK PAGE FOR PARTS ORDERING INSTRUCTIONS

SEE NOTE "A"

MODELS 315.101210 AND 315.101220

SEE NOTE "A"

MODEL 315.101230

PARTS LIST

<table>
<thead>
<tr>
<th>Key No.</th>
<th>Part Number</th>
<th>Description</th>
<th>Quan.</th>
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<td>Chuck (Model Nos. 315.101210 / 315.101220)</td>
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<td>Item 9-20988</td>
<td>Chuck (Model No. 315.101230)</td>
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<td>Owner's Manual</td>
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NOTE "A": The assembly shown represents an important part of the double insulated system. To avoid the possibility of alteration or damage to the system, service should be performed by your nearest Sears Repair Center. Contact your nearest Sears Retail Store.