

# Operator's Manual

# CRAFTSMAN®

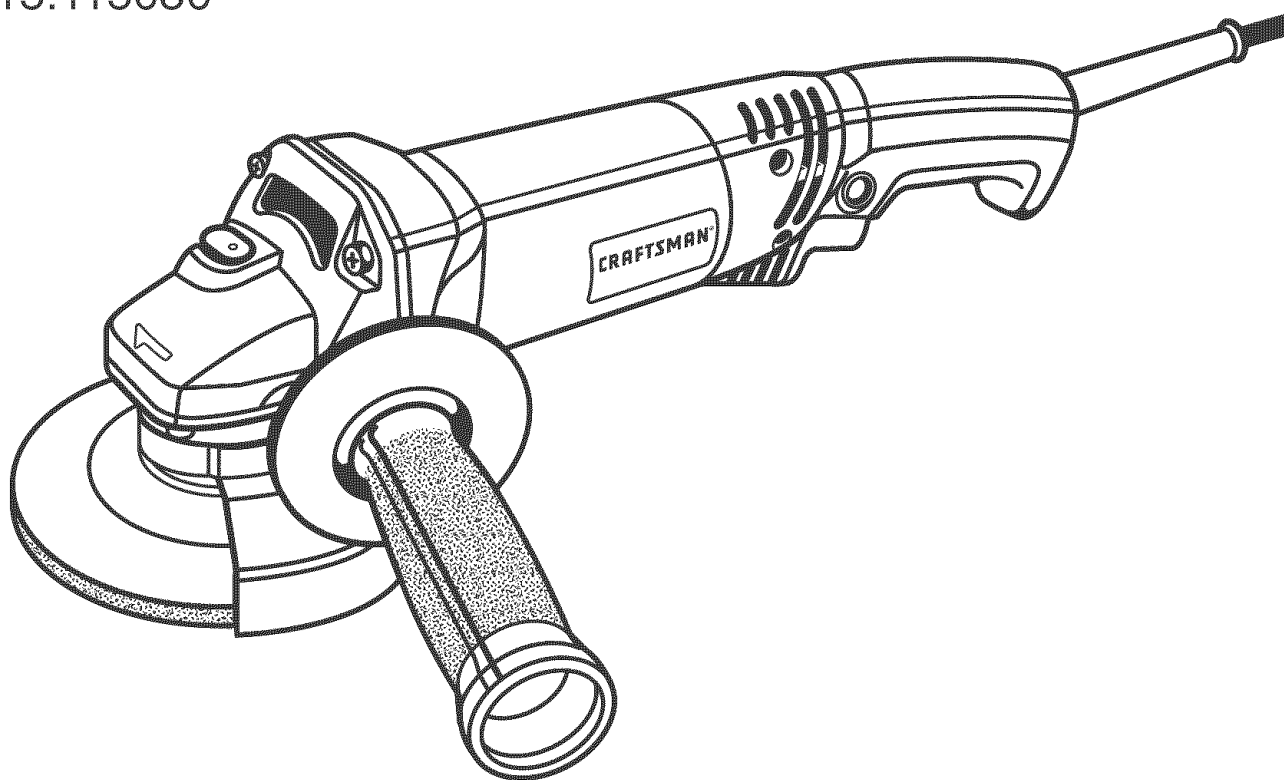
## ANGLE GRINDER

4-1/2 in.

Double Insulated

Model No.

315.115080



Save this manual for  
future reference

**⚠ CAUTION:** Read and follow all Safety Rules and Operating Instructions before first use of this product.

- Safety
- Features
- Operation
- Maintenance
- Parts List

Customer Help Line: 1-800-932-3188

Sears, Roebuck and Co., 3333 Beverly Rd., Hoffman Estates, IL 60179 USA  
Visit the Craftsman Web page: [www.sears.com/craftsman](http://www.sears.com/craftsman)



# TABLE OF CONTENTS

■ Warranty .....	2
■ Introduction .....	2
■ General Safety Rules .....	3-4
■ Specific Safety Rules .....	4
■ Additional Safety Rules .....	5
■ Symbols .....	6
■ Specifications .....	7
■ Unpacking .....	7
■ Applications .....	7
■ Features .....	8
■ Assembly .....	9-10
■ Adjustments .....	11
■ Operation .....	12-13
■ Maintenance .....	14-15
■ Accessories .....	15
■ Exploded View and Repair Parts List .....	16-17
■ Parts, Ordering, and Service .....	18

## WARRANTY

### FULL ONE YEAR WARRANTY ON CRAFTSMAN ANGLE GRINDER

If this **CRAFTSMAN** Angle Grinder 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** Angle Grinder is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase.

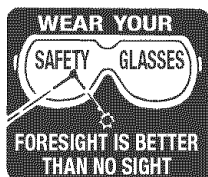
This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Sears, Roebuck and Co., Dept. 817 WA, Hoffman Estates, IL 60179

## INTRODUCTION

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

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

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



**WARNING:** The operation of any angle grinder 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. Always wear eye protection which is marked to comply with ANSI Z87.1.


# GENERAL SAFETY RULES

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

## WORK AREA

- **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools may create sparks which may ignite the dust or fumes.
- **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

## ELECTRICAL SAFETY

- **Double insulated tools are equipped with 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 a polarized outlet. Do not change the plug in any way.** Double insulation  eliminates the need for the three-wire grounded power cord and grounded power supply system.
- **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.
- **Don't expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord to carry the tools or pull 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.
- **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

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **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.

- **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.
- **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.
- **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations. Do not use on a ladder or unstable support.
- **Use safety equipment. Always wear eye protection.** Dust mask, nonskid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

## TOOL USE AND CARE

- **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.
- **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.
- **Do not use tool if switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
- **Store idle tools out of the reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- **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.
- **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
- **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.

# GENERAL SAFETY RULES

## SERVICE

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

# SPECIFIC SAFETY RULES

- **Always use proper guard with grinding wheel.** A guard protects operator from broken wheel fragments.
- **Accessories must be rated for at least the speed recommended on the tool warning label.** Wheels and other accessories running over rated speed can fly apart and cause injury.
- **Hold tool by insulated gripping surfaces when performing an operation where the cutting tool 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.
- **Grinding wheel and guard must be securely attached** as described in this operating manual before connecting the grinder to a power source.
- **Grinding wheels must be stored in a dry place.**
- **Before attaching the grinding wheel,** inspect it for visible defects. If cracked, chipped, or warped, do not install it.
- **Do not overtighten the clamp nut** on the grinding wheel. Excessive tightening can cause the wheel to crack during operation.
- **Make sure that the guard is in good condition** and securely installed before operating grinder.
- **Do not clamp the grinder in a vise or use as a fixed grinder.**
- **Never turn on the grinder** with the grinding wheel or any rotating parts touching the workpiece.
- **Use only grinding wheels in compliance** with ANSI standard B7.1 and rated greater than 11,000 RPM.
- **Do not use the grinder if the disc flange or clamp nut is missing** or if the spindle is bent.
- **Always hold the grinder securely with two hands** while working and at all times when it is running.
- **Never cover the air vents in the motor housing** with your hands while operating the grinder.
- **Hold the tool away from your body** while it is running. Keep your hands away from the abrasive attachments.
- **Dust and waste materials should not be allowed to build up in the workshop.** Hot metal sparks could start a fire.
- **Do not enlarge or alter the center hole** of the grinding wheel as this could result in breaking it.
- **Use only the normal grinder surface.** Never use the side or upper surfaces for cutting.
- **Keep the tool and its handle 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.

## ADDITIONAL SAFETY RULES

- **Know your power tool.** Read operator's manual carefully. Learn its applications and limitations, as well as the specific potential hazards related to this tool. Following this rule will reduce the risk of electric shock, fire, or serious injury.
- **Always wear safety glasses.** Everyday eye-glasses have only impact-resistant lenses; they are NOT safety glasses. Following this rule will reduce the risk of serious personal injury.
- **Protect your lungs.** Wear a face or dust mask if the operation is dusty. Following this rule will reduce the risk of serious personal injury.
- **Protect your hearing.** Wear hearing protection during extended periods of operation. Following this rule will reduce the risk of serious personal injury.
- **Inspect tool cords periodically and, if damaged, have repaired at your nearest authorized service center.** Constantly stay aware of cord location. Following this rule will reduce the risk of electric shock or fire.
- **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. Following this rule will reduce the risk of shock, fire, or serious injury.
- **Do not abuse cord.** Never carry the tool by the cord or yank it to disconnect it from the receptacle. Keep cord away from heat, oil, and sharp edges. Following this rule will reduce the risk of electric shock or fire.
- **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. 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. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.
- **Inspect for and remove all nails from lumber before grinding.** Following this rule will reduce the risk of serious personal injury.
- **Drugs, alcohol, medication.** Do not operate tool while under the influence of drugs, alcohol, or any medication. Following this rule will reduce the risk of electric shock, fire, or serious personal injury.
- **Keep hands away from grinding area.** Following this rule will reduce the risk of serious personal injury.
- **Save these instructions.** Refer to them frequently and use them to instruct others who may use this tool. If you loan someone this tool, loan them these instructions also.






**WARNING:** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known 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.

# SYMBOLS

**Important:** Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

SYMBOL	NAME	DESIGNATION/EXPLANATION
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
min	Minutes	Time
~	Alternating Current	Type or a characteristic of current
$n_0$	No Load Speed	Rotational speed, at no load
	Class II Construction	Designates double-insulated construction tools
.../min	Revolutions or Reciprocation Per Minute	Revolutions, strokes, surface speed, orbits etc. per minute
	Safety Alert	Indicates danger, warning or caution. It means attention!!! Your safety is involved.
	Wet Conditions Alert	Do not expose to rain or use in damp locations.

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and the explanations with them, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

## SYMBOL MEANING



**DANGER:** Failure to obey a safety warning will result in serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.



**WARNING:** Failure to obey a safety warning can result in serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.



**CAUTION:** Failure to obey a safety warning may result in property damage or personal injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

**NOTE:** Advises you of information or instructions vital to the operation or maintenance of the equipment.

**SAVE THESE INSTRUCTIONS**

# SPECIFICATIONS

Grinding Wheel Capacity	4-1/2 in.
Rating	120 VOLTS, 60 HZ, AC ONLY
No Load Speed	11,000 RPM
Amps	6.5
Net Weight	4.6 lbs.

# UNPACKING

## INSTRUCTIONS

With the exception of the side handle and accessory wheels, your angle grinder has been shipped completely assembled.

- Carefully remove the grinder and accessories from the box. Make sure that all items listed in the packing list are included.
- Inspect grinder carefully to make sure no breakage or damage has occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated grinder.

## PACKING LIST

- Angle Grinder with Guard
- Grinding Wheel (1)
- Side Handle
- Wrench
- Operator's Manual

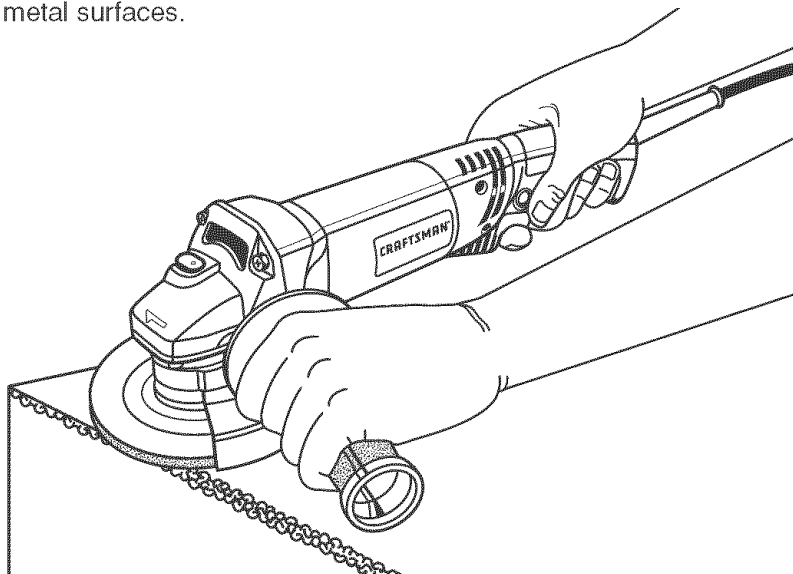
**⚠ WARNING:** If any parts are missing, do not operate this tool until the missing parts are replaced. Failure to do so could result in possible serious personal injury.

# APPLICATIONS

Before attempting to use your grinder, familiarize yourself with all operating features and safety requirements. Make sure all grinding wheels and recommended accessories are in accordance with listed specifications for this tool. For example, do not use grinding wheels that are rated at less than 11,000 RPM.

Use your grinder only for the purposes listed below.

- Grinding metals.
- Sanding wood or metal surfaces.



# FEATURES

## DOUBLE INSULATION

Double insulation is a concept in safety in electric power tools, which eliminates the need for the usual three-wire grounded power cord. All exposed metal parts are isolated from the internal metal motor components with protecting insulation. Double insulated tools do not need to be grounded.

**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 authorized service center for repair. Always use original factory replacement parts when servicing.

**⚠ WARNING:** The double insulated system is intended to protect the user from shock resulting from a break in the tool's internal wiring. Observe all normal safety precautions to avoid electrical shock.

## ELECTRIC MOTOR

Your grinder 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.

## TRIGGER SWITCH

Your grinder has a conveniently located trigger switch.

## LOCK-ON BUTTON

Your grinder also contains a lock-on feature that allows you to lock the grinder on when you operate it continuously for extended periods of time.

## GUARD

A protective guard is provided on your grinder. It deflects sparks and metal chips during use.

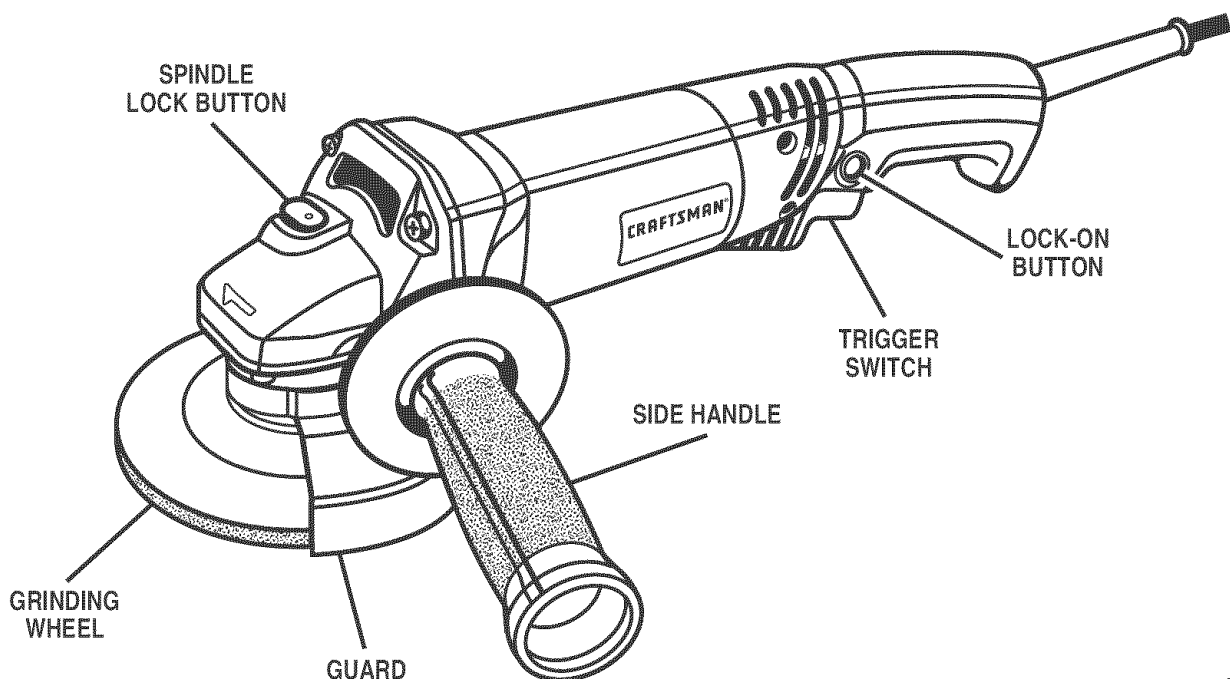
**⚠ WARNING:** Always use the guard that accompanied the grinder. Comply with mounting and use instructions and warnings found in the manual for the grinder and ANSI B7.1. Failure to heed these warnings can result in wheel breakage and serious personal injury. For more information on ANSI Standards, contact the American National Standards Institute, Inc., 11 West 42nd Street, 13th Floor, New York, NY 10036.

## SIDE HANDLE

The side handle provided, stabilizes your grinder and must be used during all operations. In addition to maintaining safe control during use, the side handle also provides convenient ease of operation for the operator.

## SPINDLE LOCK BUTTON

The spindle lock button secures the spindle so that only one wrench is needed to change the grinding wheel.





# ASSEMBLY

**⚠ WARNING:** Your grinder should never be connected to power supply when you are assembling parts, making adjustments, installing or replacing accessory wheels, cleaning, or when not in use. Disconnecting the grinder will prevent accidental starting that could cause serious personal injury.

## INSTALLING SIDE HANDLE

See Figure 2.

Follow these directions when installing the side handle.

- Unplug your grinder.

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

- Install the side handle by screwing it into the side of the gear housing.

**NOTE:** You can install the handle on either the left or right side of the grinder, depending on operator preference. It must always be used to prevent loss of control and possible serious injury.

- Tighten side handle securely.

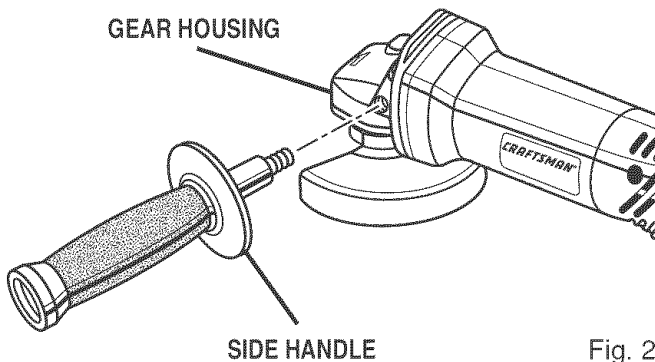


Fig. 2

## INSTALLING ACCESSORY WHEELS

See Figures 3a and 3b.

**⚠ WARNING:** Thoroughly inspect a new grinding wheel before you install it on the grinder.

- Tap lightly around the wheel using a wooden hammer.
- Listen carefully to the resulting sounds. Places with fissures or cracks will result in a different sound.

Do not use a wheel containing fissures or cracks.

When you install a new grinding wheel, carry out a no load revolution test of approximately one minute with the grinding wheel facing a safe direction, i.e., away from people or objects.

Follow these directions when installing accessory wheels.

- Unplug your grinder.

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

**NOTE:** Your grinder is shipped with the disc flange and clamp nut attached to the spindle.

- Depress spindle lock button and rotate clamp nut until spindle locks. To prevent damage to the spindle or spindle lock, always allow motor to come to a complete stop before engaging spindle lock.
- Loosen and remove clamp nut from spindle. **Do not** remove disc flange.
- Make sure flats on the bottom of disc flange are engaged with flats on spindle.
- *To install grinding wheel:* Place grinding wheel over the spindle. Thread the clamp nut on the spindle with the flat side of nut facing up. Fit raised, small diameter portion of the clamp nut into the hole in the wheel and finger tighten. See Figure 3a.

**⚠ WARNING:** Always install grinding wheel with the depressed center against the disc flange. Failure to do so will cause the grinding wheel to crack when tightening the clamp nut. This could result in serious personal injury because of loose particles breaking off and being thrown from the grinder. Do not overtighten.

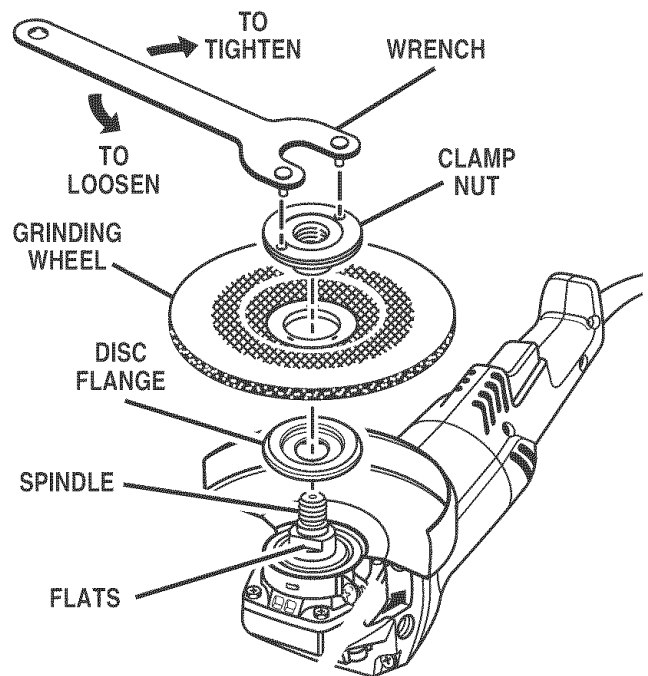


Fig. 3a

# ASSEMBLY

- To install optional flap disc (sold separately): Place flap disc over the spindle. Thread the clamp nut on the spindle with the flat side of nut facing up. Fit raised, small diameter portion of the clamp nut into the hole in the wheel and finger tighten. See Figure 3b.
- Depress the spindle lock button and rotate the wheel clockwise until the spindle locks in position.
- Tighten the clamp nut securely with the wrench provided. Do not overtighten.

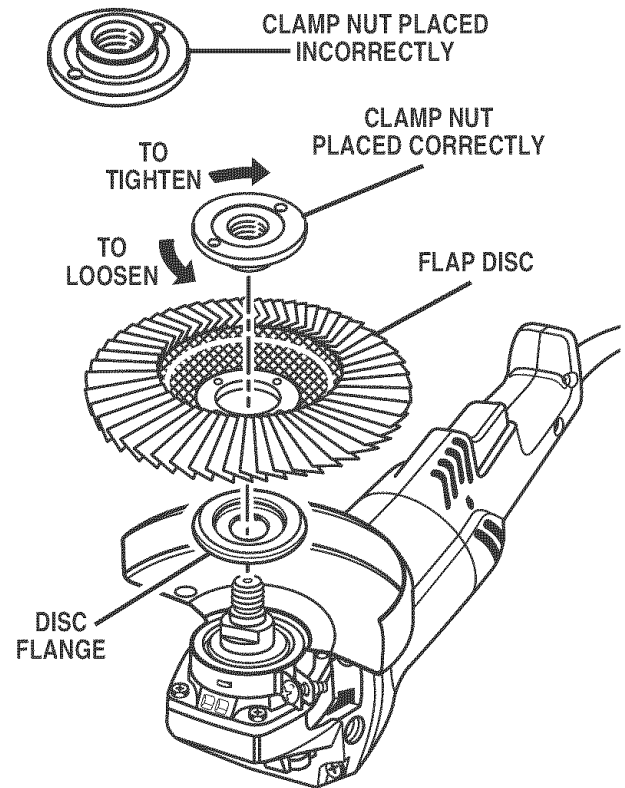


Fig. 3b

# ADJUSTMENTS

**WARNING:** Before connecting your grinder to power supply, always check to be sure switch is not in **lock-on** position. Failure to do so could result in accidental starting of your grinder resulting in possible serious injury.

## ADJUSTING GUARD

See Figures 4, 5, and 6.

The guard on your grinder should be correctly installed depending on which side the handle is mounted. **Never use your grinder without the guard correctly in place.**

**WARNING:** Never place the guard so that it is on front of the grinder as shown in Figure 6. This could result in serious injury because sparks and loose particles thrown from the grinding wheel would be directed toward the operator. Always place the guard in the correct location as shown.

Follow these directions when adjusting the guard.

■ Unplug your grinder.

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

- Loosen the clamp screw until you can remove the guard from the bearing cap.
- Rotate guard to its correct position as shown.
- Tighten clamp screw securely.

**NOTE:** Be sure the raised ridge on the guard is seated in the groove on the bearing cap. Never use your grinder without the guard in place and properly adjusted.

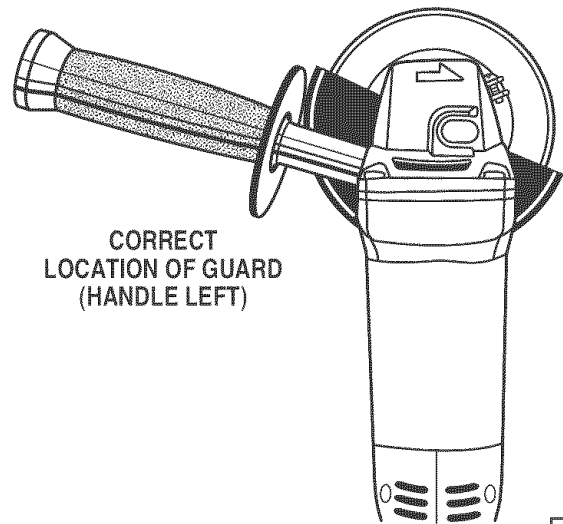


Fig. 4

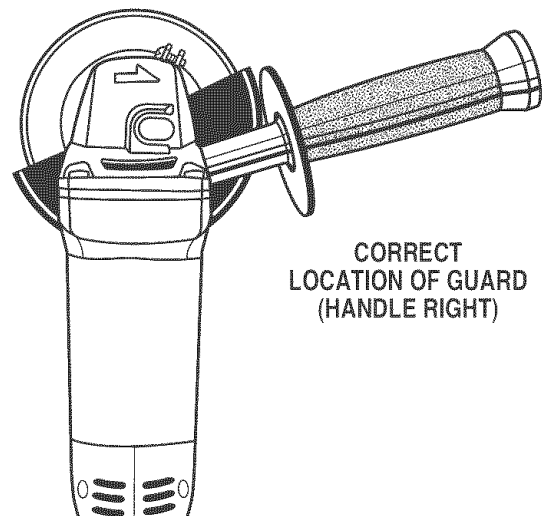


Fig. 5

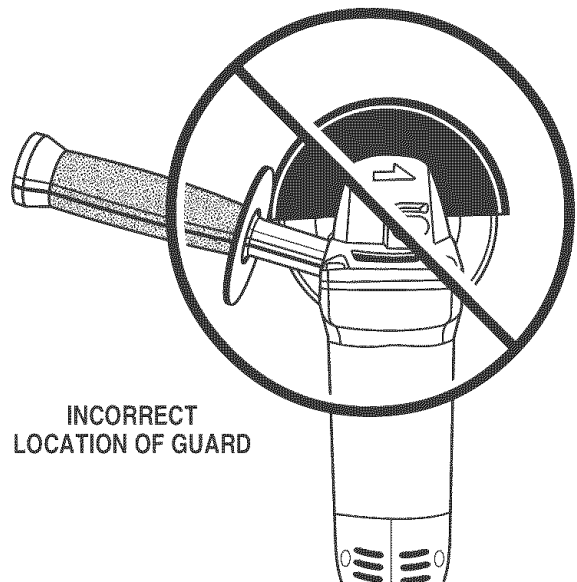


Fig. 6

# OPERATION

**⚠ WARNING:** Follow these rules when using your grinder.

- Always wear safety glasses and keep guard in place when grinding.
- Hot metal sparks from metal grinding can cause a fire. Avoid spark contact with flammable materials such as saw dust or clothing.
- Grinding wheels must be free of fissures and cracks. Fissures and cracks can cause a grinding wheel to shatter resulting in possible serious injury.

**⚠ DANGER:** Never attach a wood cutting or carving blade of any type to this angle grinder. It is only designed for grinding and sanding. Use for any other purpose is not recommended and creates a hazard, which will result in serious injury.

**⚠ 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 operator's manual and review frequently for continuing safe operation, and instructing others who may use this tool.

## STARTING/STOPPING GRINDER

See Figure 7.

Follow these directions when starting and stopping the grinder.

- *To start grinder:* Depress the trigger switch.
- *To stop grinder:* Release the trigger switch.

## LOCKING ON

See Figure 7.

Your grinder has a lock-on feature that is convenient when you operate the grinder continuously for extended periods of time.

Follow these directions when locking on.

- *To lock-on:* Depress the trigger switch, push in the lock-on button located on the side of the handle, then while holding the lock-on button in, release the trigger switch.
- *To release lock:* Depress the trigger switch and release it.

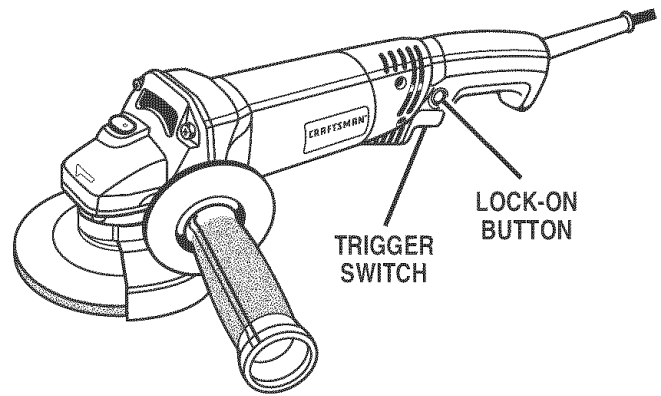


Fig. 7

## GRINDING AND SANDING

See Figure 8.

**Always** carefully select and use grinding wheels that are recommended for the material to be ground. Make sure that the minimum operating speed of any accessory wheel selected is not less than 11,000 RPM. The grinding wheel provided with your grinder is suitable for grinding welds, preparing surfaces to be welded, grinding structural steel, and grinding stainless steel.

Secure all work before beginning any operation. Secure small workpieces in a vise or clamp to a workbench.

**⚠ DANGER:** Never use your grinder with the guard removed. It has been designed for use only with the guard installed. Attempting to use grinder with guard removed will result in loose particles being thrown against the operator resulting in serious personal injury.

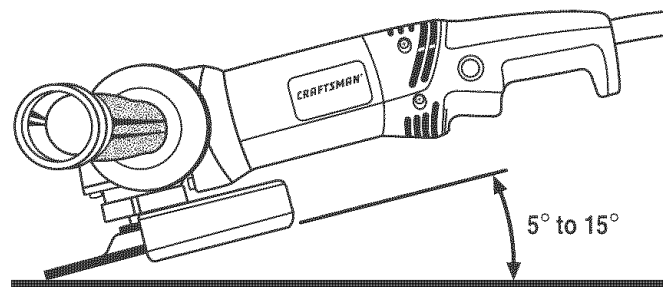


Fig. 8

# OPERATION

The key to efficient operation begins by controlling the pressure and surface contact between the grinding wheel and workpiece. Flat surfaces are ground at an acute angle, normally between 5 to 15 degrees.

For maximum control, hold the grinder in front and away from you with both hands, keeping the grinding wheel clear of the workpiece. Start your grinder and let the motor and grinding wheel build up to full speed. Gradually lower grinder until the grinding wheel contacts the workpiece.

For best results keep the grinder tilted at an angle from 5 to 15 degrees and continuously moving at a steady, consistent pace. Move the grinder back and forth or up and down over the work area. Keep the grinder moving so that an excessive amount of material is not removed from one area. If the grinder is held in one spot too long, it will gouge and cut grooves in the workpiece. If the grinder is held at too sharp an angle, it will also gouge the workpiece because of concentration of pressure on a small area.

Use just enough pressure to keep the grinder from chattering or bouncing. Heavy pressure will decrease its speed and put a strain on the motor. Normally the weight of the tool alone is adequate for most grinding jobs. Use light pressure when grinding jagged edges or loose bolts where there is the potential for the grinder to snag on the metal edge.

Lift the grinder away from the workpiece before turning your grinder off.

# MAINTENANCE

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

## GENERAL

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:** 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.

## 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.

## REPLACING GUARD

See Figure 9.

After extended use, the guard may wear and need replacing. If you drop your grinder and damage the guard it may also be necessary for you to replace it. Follow these directions when replacing the guard.

- Unplug your grinder.

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

- Depress spindle lock button and rotate clamp nut until spindle locks.
- Loosen and remove clamp nut from spindle using the wrench provided.
- Remove grinding wheel and disc flange.
- Loosen the clamp screw until you can remove the guard from the bearing cap.
- Place the new guard on the shoulder of the bearing cap.

**NOTE:** If the new guard will not fit, loosen the clamp screw until they slide over the bearing cap.

- Rotate guard to the correct position as shown.

**NOTE:** Be sure the raised ridge on the guard is seated in the groove on the bearing cap.

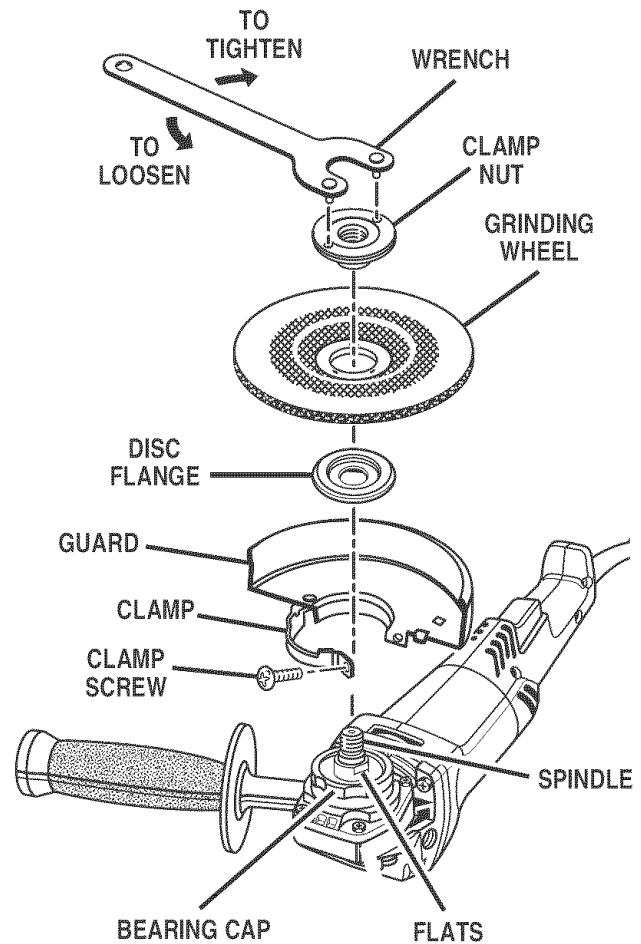


Fig. 9

- Tighten clamp screw securely.
- Reassemble disc flange, grinding wheel, and clamp nut. Refer to "Installing Accessory Wheels" earlier in this manual.
- Tighten the clamp nut securely with the wrench provided.

# MAINTENANCE


## EXTENSION CORDS


When using a power tool at a considerable distance from the power source, use an extension cord heavy enough to carry the current that the tool will draw. An undersized extension cord will cause a drop in line voltage, resulting in a loss of power and causing the motor to overheat. Use the chart provided below to determine the minimum wire size required in an extension cord. Only use round jacketed cords listed by Underwriter's Laboratories (UL).


Length of Extension Cord	Wire Size (A.W.G.)
Up to 25	16
26 to 50	14
51 to 100	12

When working with the tool outdoors, use an extension cord that is designed for outside use. This is indicated by the letters **WA** on the cord's jacket.

Before using an extension cord, inspect it for loose or exposed wires and cut or worn insulation.

 **CAUTION:** Keep the cord away from the work area and position the cord so that it will not be caught on materials or other objects during grinding.


 **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.

 **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.

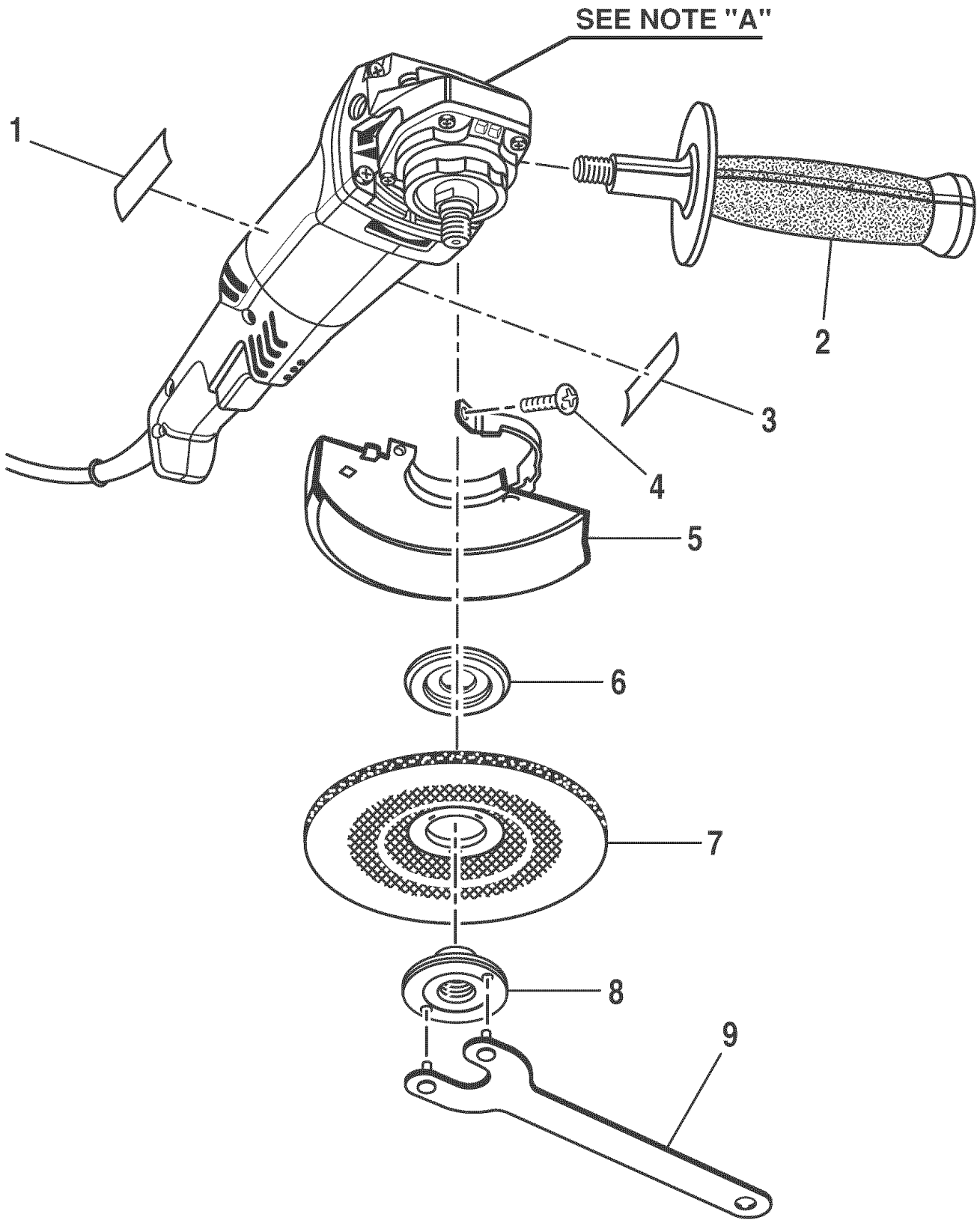
# ACCESSORIES

The following recommended accessories are currently available at Sears Retail Stores.

- Grinding Wheels
- Flap Discs
- Sanding Kits

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

CRAFTSMAN ANGLE GRINDER – MODEL NUMBER 315.115080



**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 for Service Center information.**



## CRAFTSMAN ANGLE GRINDER – MODEL NUMBER 315.115080

The model number will be found on a plate attached to the motor housing. Always mention the model number in all correspondence regarding your **ANGLE GRINDER** or when ordering repair parts.

**SEE BACK PAGE FOR PARTS ORDERING INSTRUCTIONS**

### PARTS LIST

<b>Key No.</b>	<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
1	6917311	Data Plate	1
2	6832535	Side Handle	1
3	6922279	Logo Plate	1
4	9020516	* Clamp Screw (M5 X 16)	1
5	6020249	Guard	1
6	6940622	Disc Flange	1
7	6681953	Grinding Wheel	1
8	6940693	Clamp Nut	1
9	6241770	Wrench	1
	983000-047	Operator's Manual	1

\* Standard Hardware Item - May Be Purchased Locally

# Get it fixed, at your home or ours!

## Your Home

For repair – **in your home** – of **all** major brand appliances, lawn and garden equipment, or heating and cooling systems, **no matter who made it, no matter who sold it!**

For the replacement parts, accessories and owner's manuals that you need to do-it-yourself.

For Sears professional installation of home appliances and items like garage door openers and water heaters.

**1-800-4-MY-HOME®** (1-800-469-4663)

Call anytime, day or night (U.S.A. and Canada)

[www.sears.com](http://www.sears.com)      [www.sears.ca](http://www.sears.ca)

---

## Our Home

For repair of carry-in items like vacuums, lawn equipment, and electronics, call or go on-line for the location of your nearest **Sears Parts & Repair Center.**

**1-800-488-1222**

Call anytime, day or night (U.S.A. only)

[www.sears.com](http://www.sears.com)

---

To purchase a protection agreement on a product serviced by Sears:

**1-800-827-6655** (U.S.A.)

**1-800-361-6665** (Canada)

---

Para pedir servicio de reparación a domicilio, y para ordenar piezas:

**1-888-SU-HOGAR<sup>SM</sup>**

(1-888-784-6427)

Au Canada pour service en français:

**1-800-LE-FOYER<sup>MC</sup>**

(1-800-533-6937)

[www.sears.ca](http://www.sears.ca)

# SEARS