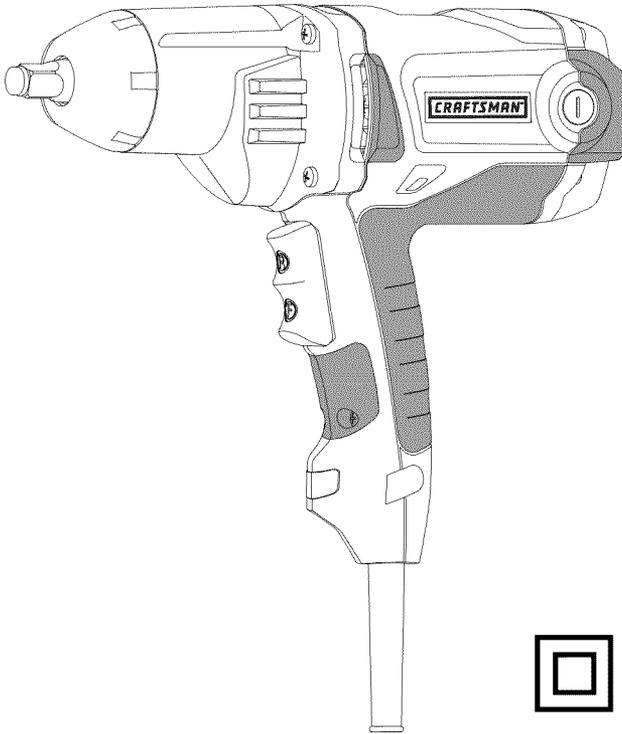


Operator's Manual



8A Impact Wrench

Model No. 320.27990



▲ WARNING: To reduce the risk of injury, the user must read and understand the Operator's manual before using this product.

- WARRANTY
- SAFETY
- UNPACKING
- DESCRIPTION
- OPERATION
- MAINTENANCE
- TROUBLESHOOTING
- ESPAÑOL

Sears Brands Management Corporation, Hoffman Estates, IL 60179 U.S.A.

www.craftsman.com

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CRAFTSMAN ONE YEAR LIMITED WARRANTY

FOR ONE YEAR from the date of purchase, this product is warranted against any defects in material or workmanship. With proof of purchase, defective product will be replaced free of charge.

For warranty coverage details to obtain free replacement, visit the web site: www.craftsman.com

This warranty is void if this product is ever used while providing commercial services or if rented to another person.

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

Sears Brands Management Corporation, Hoffman Estates, IL 60179

⚠ WARNING: Some dust created by using power tools contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

SAVE THESE INSTRUCTIONS!

READ ALL INSTRUCTIONS!

This Impact Wrench has many features for making its use more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this product, making it easy to maintain and operate.

SAFETY SYMBOLS

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 warnings do not, by themselves, eliminate any danger. The instructions and warnings they give are no substitutes for proper accident prevention measures.

⚠ WARNING: Be sure to read and understand all safety instructions in this manual, including all safety alert symbols such as **“DANGER,”** **“WARNING,”** and **“CAUTION,”** before using this Impact Wrench. Failure to follow all instructions listed in this manual may result in electric shock, fire, and/or serious personal injury.

SYMBOL MEANNING

⚠ SAFETY ALERT SYMBOL: Indicates **DANGER, WARNING, OR CAUTION.** May be used in conjunction with other symbols or pictographs.

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

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

⚠ CAUTION: Failure to obey this safety warning may result in death or serious injury to you or to others. Always follow the safety precautions to reduce the risk of fire, electric shock, and personal injury.

⚠ WARNING: To ensure safety and reliability, all repairs should be performed at a Sears Parts & Repair Service Center.

DAMAGE PREVENTION AND INFORMATION MESSAGES

These messages inform the user of important information and/or instructions that could lead to equipment or other property damage if they are not followed. Each message is preceded by the word **“NOTE”** as in the example below.

NOTE: Equipment and/or property damage may result if these instructions are not followed.

⚠ WARNING: The operation of any power tool 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 a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z87.1



Some of these following symbols may be used on this tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and more safely.

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 of current
	Direct Current	Type or a characteristic of current
n_0	No Load Speed	Rotational speed, at no load
	Class II Construction	Double-insulated construction
.../min	Per Minute	Revolutions, strokes, surface speed, orbits, etc., per minute
	Wet Conditions Alert	Do not expose to rain or use in damp locations.
	Read The Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Eye Protection	Always wear safety goggles or safety glasses with side shields and a full face shield when operating this product.
	Safety Alert	Precautions that involve your safety.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	Hot Surface	To reduce the risk of injury or damage, avoid contact with any hot surface.

SAFETY INSTRUCTIONS

⚠ WARNING: Be sure to read and understand all instructions in this manual before using the Impact Wrench. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

⚠ WARNING: Do not attempt to operate this tool until you have thoroughly read all instructions, safety rules, and warnings. Failure to comply with them can result in fire, electric shock, or serious personal injury. Save the manual and refer to it frequently.

GENERAL SAFETY PRECAUTIONS

⚠ WARNING: Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious personal injury.

Save all warnings and instructions for future reference.

The term “power tool” in all of warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

WORK AREA SAFETY

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

ELECTRICAL SAFETY

- **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 the risk of electric shock.
- **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.
- **Do not 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 for carrying, pulling, or unplugging the power tool. Keep the cord away from heat, oil, sharp edges, or moving parts.** Damaged or entangled cords increase the risk of electric shock.

- **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.
- **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected power supply.** Use of a GFCI reduces 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 the power 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.
- **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.
- **Prevent unintentional starting. Ensure that the switch is in the OFF position before connecting to a power source and/or battery, 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.
- **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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **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.
- **If devices are provided for the connection of dust extraction and collection facilities, ensure that these are connected and properly used.** Use of these devices can reduce dust-related hazards.

POWER TOOL USE AND CARE

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and more safely at the rate for which it was designated.
- **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.
- **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.

- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories, blades, etc. in accordance with these instructions and in the manner intended for the particular type of power tool, 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.

⚠ WARNING: When using power tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury.

⚠ WARNING: The operation of any tool can result in foreign objects being propelled into your eyes, resulting in severe eye damage. When operating a power tool, always wear safety goggles or safety glasses with side shields and a full face shield when needed.

⚠ WARNING: If any parts are missing, do not operate the tool until the missing parts have been replaced. Doing so could result in serious personal injury.

SERVICE SAFETY

- **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.
- **If any part of this Impact Wrench is missing or should break, bend, or fail** in any way, or should any electrical component fail to perform properly: shut off the power switch and remove the Impact Wrench plug from the power source and have the missing, damaged, or failed parts replaced before resuming operation.
- **Tool service must be performed only at a Sears Parts & Repair Service Center.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
- **Use only identical replacement parts when servicing a tool. Follow the 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 FOR IMPACT WRENCH

- **Hold power tools by the 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.
- **Do not use the power tool with a damaged cord. Do not touch the damaged cord; turn off the tool and pull the plug from the outlet if the cord is damaged while working.** Damaged cords increase the risk of an electric shock.
- **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more securely than it is by hand.
- **Always wait until the power tool has come to a complete stop before placing it down.** The tool insert can jam and lead to loss of control over the power tool.
- **Check the socket carefully** for wear, cracks or damage before installation on the hammer drill.
- **Hold the tool firmly** with both hands.
- **Always be sure that you have a firm footing.** Be sure that no one is below you when using the tool in high locations.
- **Check the torque with a torque wrench.** The proper fastening torque may differ depending on the type of size of the bolt.
- **Use thick, cushioned gloves and limit the exposure time by taking frequent rest periods.** Vibration caused by hammer-drill or Impact wrench action may be harmful to your hands and arms.
- **Do not use this tool as a drill.** Tools equipped with shut-off clutches are not designed for drilling applications. The output drive can shut off automatically and without warning.
- **Be careful when driving long screws.** There is a risk of the tool sliding off the fastener head, depending on type of socket or bit used. First test the fastening time of a fastener and pay attention during the screw-driving process to ensure you do not injure yourself if the tool bit or socket slides off of the fastener.

 **WARNING:** Bits, sockets, and tools get hot during operation. Wear gloves when touching them.



 **WARNING:** Wear ear protection. Exposure to noise can cause hearing loss.

 **WARNING:** To avoid injury, hold the tool by the insulated gripping surfaces only. If the tool contacts hidden wiring or its own cord, exposed metal parts of the tool could shock the operator and cause serious injury. Make sure that hidden electrical wiring, water pipes, or other hazards are not in the cutting path.

UNPACKING

⚠ WARNING: Your Impact Wrench should never be connected to the power source when you are assembling parts, making adjustments, installing or removing bits, cleaning, or when it is not in use. Disconnecting the Impact Wrench will prevent accidental starting, which could cause serious personal injury.

When unpacking the box, do not discard any packing materials until all of the contents are accounted for.

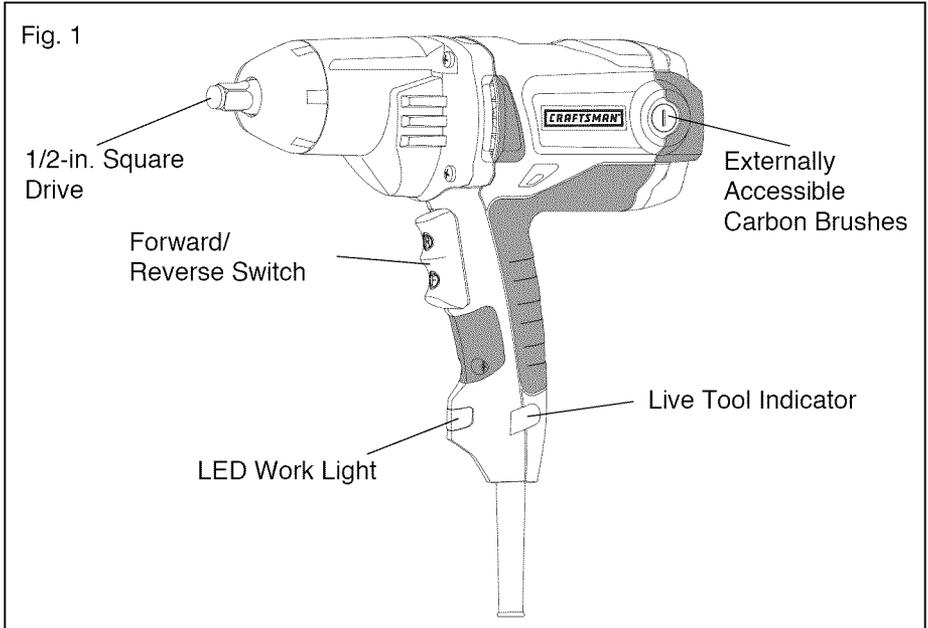
1. Carefully lift the Impact wrench out of the carton and place on a stable, flat surface.
2. Open the box to locate the following:
 - Impact wrench
 - Manual
 - Soft case
3. Inspect the items carefully to make sure that no breakage or damage has occurred during shipping. If any of the items mentioned is missing, return the Impact Wrench with your sales receipt to your nearest Craftsman retail outlet to have the Impact Wrench replaced.

⚠ WARNING: If any part is broken or missing, do not attempt to assemble the Impact Wrench, plug in the power cord, or operate the Impact Wrench until the broken or missing part is replaced. Failure to do so could result in possible serious injury.

DESCRIPTION

KNOW YOUR IMPACT WRENCH (Fig.1)

The machine is intended for driving and loosening screws and bolts as well as for tightening and loosening nuts within the range of the Product Specifications.



⚠ WARNING: Do not allow familiarity with the impact wrench to cause a lack of alertness. A fraction of a second of carelessness is enough to cause severe injury.

PRODUCT SPECIFICATIONS	
Motor	120Volt 60Hz AC only
No Load Speed	2100 RPM
Impacts Per Minute	2700 BPM
Torque	350 ft-lbs
Capacity Standard bolt	M18 - M22 (11/16" - 7/8")
Capacity High tensile bolt	M16 - M20 (5/8" - 13/16")
Wrench Weight	7.71 lbs (3.5kg)

⚠ WARNING: The safe use of this product requires an understanding of the information on the tool and in this operator's manual, as well as knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.

LED WORK LIGHT

Pressing the trigger switch illuminates the LED worklight located on the base of the Impact Wrench. This feature provides extra light for increased visibility.

LIVE TOOL INDICATOR

The LED indicator shines green when the tool is plugged into a power source.

EXTERNALLY ACCESSIBLE CARBON BRUSHES

Externally accessible brushes permit replacement of the brushes to extend the life of the impact wrench.

OPERATION

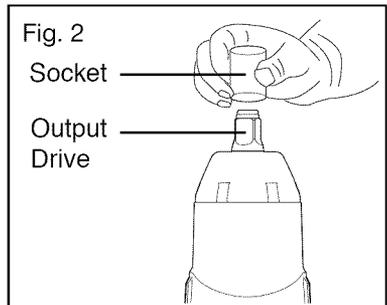
SELECTING THE CORRECT SOCKET (SOCKETS AVAILABLE SEPARATELY)

⚠ CAUTION: Always verify that the tool is switched off and unplugged before installing any accessories on the tool.

Always use the correct size socket for bolts and nuts. An incorrect socket will result in inaccurate and inconsistent fastening torque and/or damage to the bolt or nut.

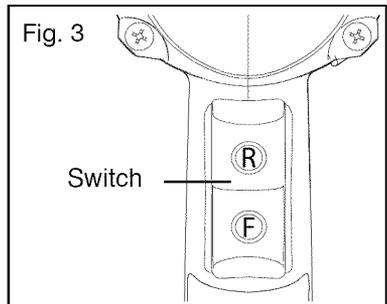
INSTALLING AND REMOVING THE SOCKET (Fig. 2)

1. To install the socket, push it onto the output drive of the tool until it locks into place.
2. To remove the socket, simply pull it off.



TURNING THE IMPACT WRENCH ON (Fig. 3)

1. Connect the power cord of your impact wrench to a standard household power outlet.
2. Press the part of the switch marked (F) to run the tool in the forward direction (clockwise rotation). Use this direction for tightening bolts or nuts.
3. Press the part of the switch marked (R) to reverse the motor direction (counter-clockwise rotation). Use this direction for loosening bolts or nuts.
4. Release the switch to stop the tool.
5. Keep the switch pressed for continuous operation.



⚠ CAUTION: Do not allow familiarity with your impact wrench to make you careless. Remember that a careless fraction of a second is sufficient to cause severe injury.

INSTALLING FASTENERS

NOTE: Always keep the Impact Wrench at a right angle to the fastener to avoid damaging the fastener head.

To fasten:

1. Start threading the fastener by hand onto or into its threaded counterpart (e.g. nut onto bolt, or bolt into nut or threaded hole).
2. With the proper impact socket securely mounted to the wrench, slide the impact socket onto the nut or bolt head.
3. Hold the tool securely with both hands and depress the switch at . The impact socket will turn the fastener and impacting will begin once the fastener encounters resistance.

 **WARNING:** Do not over-tighten, as the force of the Impact Wrench can break the fastener.

To loosen:

1. With the proper impact socket securely mounted to the wrench, slide the impact socket onto the bolt head.
2. Hold the tool securely with both hands and depress the switch at . The tool will start to impact immediately.
3. Once the fastener has “broken loose,” it will start to unthread. Be careful that you do not allow a fastener to spin freely once it is no longer engaged with its threaded counterpart, as it may be thrown out of the socket.

IMPACTING TECHNIQUES

The proper fastening torque may differ depending on the type or size of the bolt, the material of the workpiece to be fastened, etc.

NOTE: Hold the tool straight along the axis of the bolt or nut.

NOTE: Excessive fastening torque may damage the bolt/nut or socket. Before starting your job, always perform a test operation to determine the proper fastening time for your bolt or nut.

Practice with various fasteners, noting the length of time required to reach the desired torque. Check the tightness with a hand-torque wrench. If the fasteners are too tight, reduce the impacting time. If they are not tight enough, increase the impacting time.

Hold the tool firmly, and place the socket over the bolt or nut. Turn the tool on, and fasten the bolt or nut to the proper torque.

The torque that is required to loosen a fastener averages 75% to 80% of the tightening torque, depending on the condition of the contacting surfaces. However, if rust or corrosion causes seizing, more torque may be required.

After fastening, always check the torque with a torque wrench. The fastening torque is affected by a wide variety of factors, including the following:

- Voltage
 - A voltage reduction will cause a reduction in the fastening torque.
- Socket
 - Failure to use the correct size socket will cause a reduction in the fastening torque.
 - A worn socket (wear on the hex end or square end) will cause a reduction in the fastening torque.
- Bolt
 - Although the torque coefficient and the class of bolt may be the same, the proper fastening torque will differ according to the diameter of the bolt.
 - Even if the diameters of bolts are the same, the proper fastening torque will differ according to the torque coefficient, the class of bolt and the bolt length.
- The use of a universal joint or an extension bar (both available separately) will reduce the fastening force of the impact wrench somewhat. Compensate by fastening for a longer period of time.
- The manner of holding the tool or the material to be fastened will affect the torque.

MAINTENANCE

⚠ WARNING: To avoid serious personal injury, always disconnect the tool plug from the power source before cleaning or performing any maintenance.

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

⚠ WARNING: It is not recommended to use compressed dry air as a cleaning method for the Impact Wrench. If cleaning with compressed air must be used, always wear safety goggles or safety glasses with side shields. If the operation is dusty, also wear a dust mask.

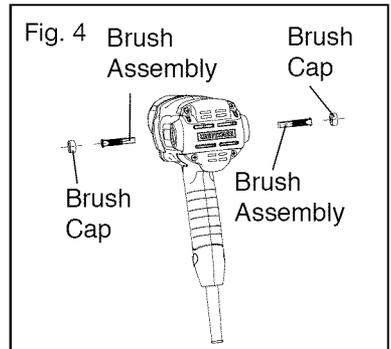
BRUSH REPLACEMENT (Fig. 4)

The impact wrench is equipped with externally accessible brushes.

Replacement brush sets are available through a Sears Parts & Repair Service Center.

To replace:

1. Unplug the tool.
2. Loosen the brush caps with a slotted screwdriver and remove them from the tool.
3. Remove the brush assemblies.
4. Check for wear. Replace both brush assemblies when the carbon brush on either is less than 1/4 in. long.



NOTE: Do not replace the brush on one side without replacing the other.

5. Reassemble using new brush assemblies. Make sure that the curvature of the brush matches the curvature of the motor and that the brush moves freely in the brush tube, being certain to fit the two metal “ears” into the brush tube.
6. Tighten all brush caps securely. Do not over-tighten. The tool should be allowed to “RUN IN” (run at no-load without a bit) for 5 minutes before use to seat the new brushes properly.

GENERAL MAINTENANCE

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, dust, oil, grease, etc.

⚠ WARNING: Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

⚠ WARNING: When servicing, use only identical Craftsman replacement parts. Use of any other parts may create a hazard or cause product damage. To ensure safety and reliability, all repairs should be performed by a qualified service technician at a Sears Service Center.

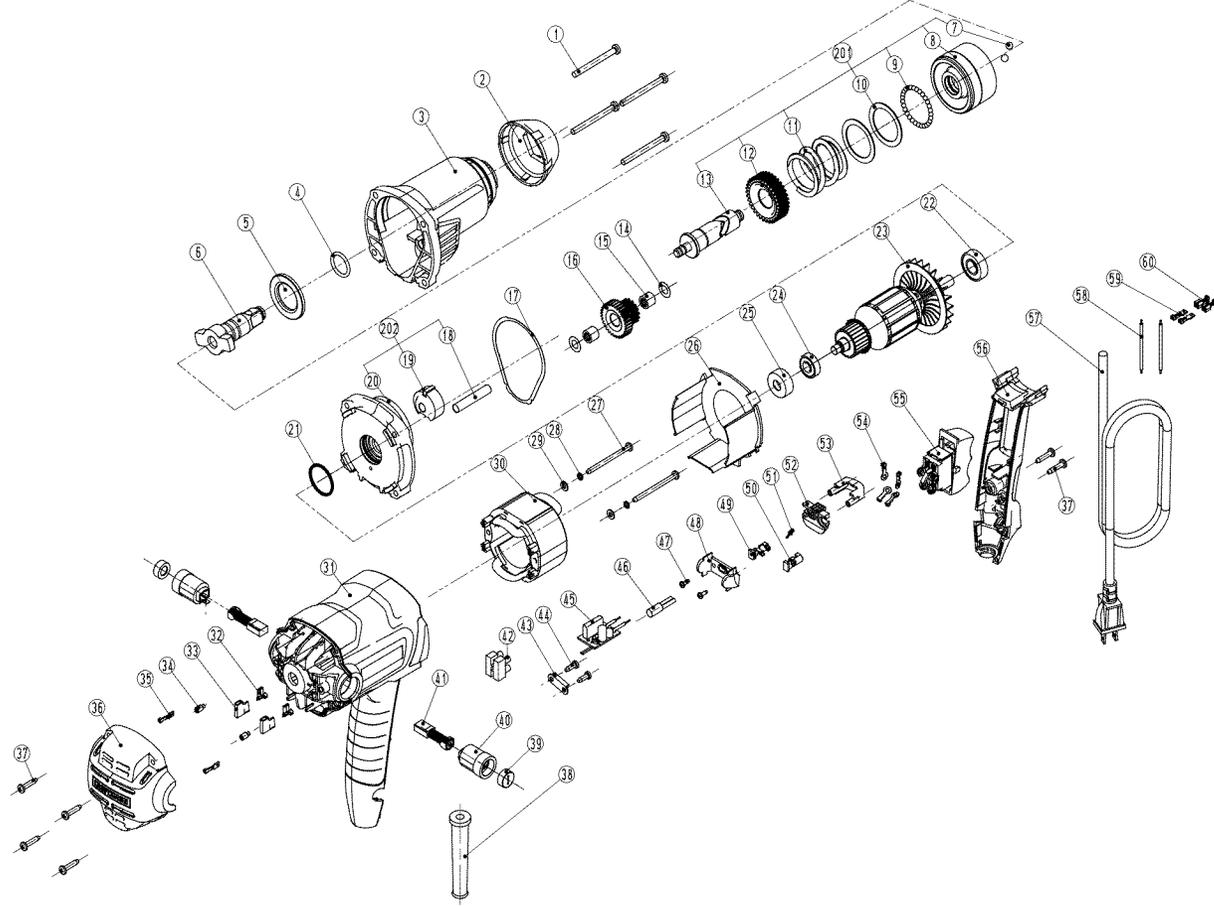
TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The Impact Wrench does not work	The Impact Wrench is not plugged into a power source	Plug the wrench into an appropriate power source
Socket cannot be installed	Improper socket selection	Use a suitable socket
Motor overheating	Cooling vents are obstructed	Clean and clear vents. Do not cover vents with hand during operation

EXPLODED DRAWING

8A IMPACT WRENCH MODEL NUMBER 320.27990

The Model Number will be found on the Nameplate. Always mention the Model Number when ordering parts for this tool.



PARTS LIST

8A IMPACT WRENCH MODEL NUMBER 320.27990

The Model Number will be found on the Nameplate. Always mention the Model Number when ordering parts for this tool.

No	Part No	Part Name	QTY
1	5610100000	Tapping Screw	4
2	3125492000	Decorate Cover	1
3	3421138000	Front Gear Housing	1
4	5690208000	O Ring	1
5	5650351000	Washer	1
6	2822873000	Spindle	1
201	2822725000	Impact Block ASSY	1
7	5700217000	Steel Ball	2
8	3551371000	Impact Block	1
9	5700045000	Steel Ball	29
10	5650312000	Washer	2
11	3660413000	Spring	1
12	3551440000	Gear	1
13	3551372000	Spindle	1
14	5650187000	Washer	2
15	5700028000	Needle Bearing	2
16	3551470000	Gear	1
17	3704670000	Gasket	1
202	2822944000	Rear Gear Housing ASSY	1
18	5670258000	Pin	1
19	5700211000	Oil Impreging Bearing	1
20	3421139000	Rear Gear Housing	1
21	5690213000	Rubber Ring	1
22	5700014000	Ball Bearing	1
23	2750905000	Rotor	1
24	5700008000	Ball Bearing	1

No	Part No	Part Name	QTY
25	3123738000	Bearing Holder	1
26	3125486000	Fan Baffle	1
27	5610048000	Tapping Screw	2
28	5650007000	Spring Washer	2
29	5650005000	Plain Washer	2
30	2740283000	Stator	1
31	3321078000	Hosuing	1
32	4930041000	Receptacle	2
33	4930008000	Sleeve	2
34	5620017000	Hexagon Socket Screw	2
35	4930057000	Terminal	2
36	3321080000	Rear Cover	1
37	5610042000	Tapping Screw	6
38	3121028000	Cord Guard	1
39	3125935000	Brush Cover	2
40	2800005000	Brush Holder Assy	2
41	4960019000	Carbon Brush Assy	2
42	4930432000	Connecter	1
43	3700314000	Cord Anchorage	1
44	5610093000	Tapping Screw	2
45	4890462000	PCB Assembly	1
46	4540017000	Power Supply Indicator	1
47	5610010000	Tapping Screw	2
48	3125488000	Indicator Cover	1
49	3125491000	Right Bracket	1
50	3125490000	Left Bracket	1
51	4360225000	LED	1
52	3125493000	Protecting Cap	1
53	3125487000	LED Cover	1
54	4930047000	Ring Terminal	4

No	Part No	Part Name	QTY
55	4870453000	Rocker Switch	1
56	3321079000	Handle	1
57	4810002000	Power Cord & Plug	1
58	4860004000	Inner Wire	2
59	4930449000	Terminal	2
60	4930030000	Receptacle	4

NOTE

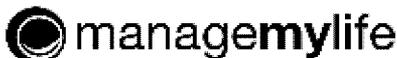
NOTE

NOTE

Get it fixed, at your home or ours!

Your Home

For troubleshooting, product manuals and expert advice:



www.managemylife.com

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® Call anytime, day or night
(1-800-469-4663) (U.S.A. and Canada)
www.sears.com www.sears.ca

Our Home

For repair of carry-in items like vacuums, lawn equipment, and electronics, call anytime for the location of the nearest **Sears Parts & Repair Service Center**

1-800-488-1222 (U.S.A.) **1-800-469-4663** (Canada)
www.sears.com www.sears.ca

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

1-800-827-6655 (U.S.A.) **1-800-361-6665** (Canada)

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(1-800-533-6937)
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