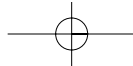


DEWALT Industrial Tool Company, P.O. Box 158, 626 Hanover Pike, Hampstead, MD 21074 Printed in U.S.A. (JAN95-CD-2) Form No. 158669-01
For information call toll free between 8:00 a.m. and 8:00 p.m., seven days a week. 1-800-4-DEWALT (1-800-433-9258)

DW290/291/296



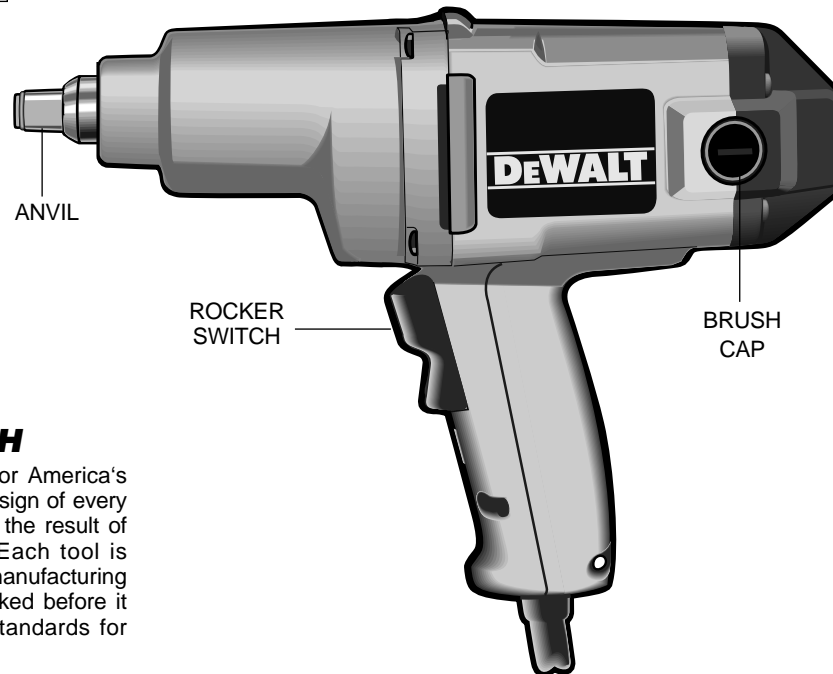


DEWALT®

INSTRUCTION MANUAL
DW290/291 1/2" Impact Wrench
DW296 3/4" Impact Wrench

**IF YOU HAVE ANY QUESTIONS OR COMMENTS ABOUT THIS OR ANY
DeWALT TOOL, CALL US TOLL FREE AT 1-800-4-DeWALT (1-800-433-9258).**

Serial Number from Nameplate	Date of Purchase
_____	_____
Save this information for future reference	



DeWALT...BUILT JOBSITE TOUGH

DeWALT high performance industrial tools are made for America's toughest industrial and construction applications. The design of every tool in the line – from drills to sanders to grinders – is the result of rigorous use on jobsites and throughout industry. Each tool is produced with painstaking precision using advanced manufacturing systems and intense quality control. Every tool is checked before it leaves the factory to make sure that it meets your standards for durability, reliability and power.

DeWALT Built Jobsite Tough...WE GUARANTEE IT.

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

READ ALL INSTRUCTIONS

Double Insulation

Double insulated tools are constructed throughout with two separate layers of electrical insulation or one double thickness of insulation between you and the tool's electrical system. Tools built with this insulation system are not intended to be grounded. As a result, your tool is equipped with a two prong plug which permits you to use extension cords without concern for maintaining a ground connection.

NOTE: Double insulation does not take the place of normal safety precautions when operating this tool. The insulation system is for added protection against injury resulting from a possible electrical insulation failure within the tool.

CAUTION: WHEN SERVICING USE ONLY IDENTICAL REPLACEMENT PARTS. Repair or replace damaged cords.

Polarized Plugs

Polarized plugs (one blade is wider than the other) are used on equipment to reduce the risk of electric shock. When provided, this plug will fit into a polarized outlet only one way. If the plug does not fit fully into 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.

Safety Instructions For All Tools

- **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite injuries.
- **CONSIDER WORK AREA ENVIRONMENT.** Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit. Do not use tool in presence of flammable liquids or gases.
- **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, and refrigerator enclosures.
- **KEEP CHILDREN AWAY.** Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
- **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place — out of reach of children.
- **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was intended.
- **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.
- **DRESS PROPERLY.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- **USE SAFETY GLASSES.** Also use face or dust mask if operation is dusty.
- **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.

- **DON'T OVERREACH.** Keep proper footing and balance at all times.
- **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
- **DISCONNECT OR LOCK OFF TOOLS** when not in use, before servicing, and when changing accessories, such as blades, bits, cutters.
- **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- **AVOID UNINTENTIONAL STARTING.** Don't carry tool with finger on switch. Be sure switch is off when plugging in.
- **EXTENSION CORDS.** 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. The following table shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

		Minimum Gage for Cord Sets			
		<i>Total Length of Cord in Feet</i>			
Volts		0-25	26-50	51-100	101-150
120V					
240V		0-50	51-100	101-200	201-300
<i>Ampere Rating</i>					
<i>More Than</i>	<i>Not more Than</i>	<i>AWG</i>			
0 -	6	18	16	16	14
6 -	10	18	16	14	12
10 -	12	16	16	14	12
12 -	16	14	12	<i>Not Recommended</i>	

- **OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
- **STAY ALERT.** Watch what you are doing. Use common sense. Do not operate tool when you are tired.
- **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 otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.

SAVE THESE INSTRUCTIONS

Motor

Your DEWALT tool is powered by a DEWALT built motor. Be sure your power supply agrees with the nameplate marking.

Volts 50/60 Hz or "AC only" means your tool must be operated on alternating current and never with direct current.

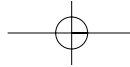
Voltage decrease of more than 10% will cause loss of power and overheating. DEWALT tools are factory tested; if this tool does not operate, check power supply.

Motor Brushes

This DEWALT tool uses an advanced brush system which automatically stops the tool when the brushes wear out. This prevents serious damage to the motor.

Switch

Pressing the BOTTOM part of the switch runs the tool in forward (right hand thread) direction. Pressing the TOP of the switch reverses motor direction. This allows "rocking" fasteners to break them loose.



Anvil with Detent Pin (DW290 & DW296 only)

To install a socket on the anvil, align the hole in the side of the socket with the detent pin on the anvil. Press the socket on until the detent pin engages in the hole. To remove a socket, depress the detent pin through the hole, using a small, pointed object, and pull the socket off.

Anvil with Hog Ring (DW291 only)

To install a socket on the anvil, push firmly. To remove a socket, pull firmly.

Impact Time

Many variables exist that will cause the torque available on any fastener to vary considerably. The optimum impact time is about 6 seconds.

Capacity

1/2" impact wrenches use sockets with 1/2" square drive ends and 3/4" impact wrenches use sockets with 3/4" square drive ends. Both sizes of impact wrenches are capable of driving the same range of hex impact sockets available.

In particularly heavy duty usage the 3/4" drive impact wrench has an extra strong anvil that will resist breakage.

Important

To assure product safety and reliability, repairs, maintenance and adjustment should be performed by DEWALT certified service centers or other qualified service organizations. These service organizations service DEWALT tools always using DEWALT replacement parts.

Black & Decker (U.S.) Inc. industrial tool service centers are certified to service DEWALT industrial tools.

Lubrication

Your tool was properly lubricated before leaving the factory. In from two to six months, depending upon use, take or send your tool to a Black & Decker (U.S.) Inc. Industrial Service Center or other qualified service organization for a complete cleaning, inspection and relubrication.

Tools used constantly on production or heavy duty jobs or exposed to heat may require more frequent lubrication. Tools "out of service" for long periods should be relubricated before being put back into service.

Accessories

Recommended accessories for use with your tool are available at extra cost from your local service center. **CAUTION:** The use of any non-recommended accessory may be hazardous.

NOTE: Use only impact sockets. Non-impact sockets may break and cause a hazardous condition.

A complete listing of service centers is included on the owner's registration card packed with your tool.

If you need assistance in locating any accessory, please contact DEWALT Industrial Tool Company, P.O. Box 158, 626 Hanover Pike, Hampstead, MD 21074 or call 1-800-4-DEWALT (1-800-433-9258).

Full Warranty

DEWALT heavy duty industrial tools are warranted for one year from date of purchase. We will repair, without charge, any defects due to faulty materials or workmanship. Arrangements have been made with the Industrial Tool Division of Black & Decker (U.S.) Inc. to provide warranty repairs for DEWALT tools. Please return the complete unit, transportation prepaid, to any Black & Decker (U.S.) Inc. Industrial Service Center or Authorized Service Station listed under "Tools, Electric" in the Yellow Pages. This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

In addition to the warranty, DEWALT tools are covered by our:

30 DAY NO RISK SATISFACTION GUARANTEE

If you are not completely satisfied with the performance of your DeWalt heavy duty industrial tool, simply return it to the participating seller within 30 days for a full refund. Please return the complete unit, transportation prepaid. Proof of purchase may be required.



**See 'Tools-Electric'
– Yellow Pages –
for Service & Sales**

