

DeWALT Industrial Tool Co.,  
701 East Joppa Road, Baltimore, MD 21286 • 20 Fletcher Road, Mooroolbark, VIC 3138 Australia  
(SEPO4) Form No. XXXXXX-XX DW293-XE Copyright © 2004 DeWALT

The following are trademarks for one or more DeWALT power tools: the yellow and black color scheme; the "D" shaped air intake grill; the array of pyramids on the handgrip; the KK box configuration; and the array of lozenge-shaped humps on the surface of the tool.

IF YOU HAVE ANY QUESTIONS OR COMMENTS ABOUT THIS OR ANY DEWALT TOOL, CALL US AT: 1800 654 155 (Aust) or 09 526 2555 (NZ).

## SAFETY INSTRUCTIONS FOR POWER TOOLS

When using power tools, always observe the safety regulations applicable in your country to reduce the risk of fire, electric shock and personal injury. Read the following safety instructions before attempting to operate this product. Keep these instructions in a safe place.

### General Safety Rules

**WARNING!** Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

### SAVE THESE INSTRUCTIONS

#### 1. WORK AREA

- Keep work area clean and well lit. Cluttered 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 create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

#### 2. ELECTRICAL SAFETY

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or 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 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.

#### 3. PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Avoid accidental starting. Ensure the switch is in the off position before plugging in. Carrying power tools with your finger on the switch or plugging in 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 jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.

#### 4. 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 safer at the rate for which it was designed.
- 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 before making any adjustments, changing accessories, or starting 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 tools 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 and tool bits 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.
5. SERVICE
- 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.

### Electrical Safety

The electric motor has been designed for one voltage only. Always check that the power supply corresponds to the voltage on the rating plate. 230 V AC means your tool will operate on alternating current. As little as 10% lower voltage can cause loss of power and can result in overheating. All DeWALT tools are factory tested; if this tool does not operate, check the power supply. Your DeWALT tool is double insulated, therefore no earth wire is required.

- Young children and the infirm. This appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with this appliance.
- Replacement of the supply cord. If the supply cord is damaged, it must be replaced by the manufacturer or an authorised DeWALT Service Centre in order to avoid a hazard.

### Extension Cords

**CAUTION:** Use only extension cords that are approved by the country's Electrical Authority. Before using extension cords, inspect them for loose or exposed wires, damaged insulation and defective fittings. Replace the cord if necessary.

### Additional Safety Instructions

- Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
- Wear ANSI Z.87.1 safety goggles or other eye protection. Hammering and drilling operations cause chips to fly. Flying particles can cause permanent eye damage.
- Bits, sockets and tools get hot during operation. Wear gloves when touching them.
- Do not operate this tool for long periods of time. Vibration caused by tool action may be harmful to your hands and arms. Use gloves to provide extra cushion and limit exposure by taking frequent rest periods.

**CAUTION:** Wear appropriate hearing protection during use. Under some conditions and duration of use, noise from this product may contribute to hearing loss.

**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 (CCA).

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.

Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water. Allow dust to get into your mouth, eyes, or lay on the skin may promote absorption of harmful chemicals.

**WARNING:** Use of this tool can generate and/or disperse dust, which may cause serious and permanent respiratory or other injury. Always use NIOSH/OSHA approved respiratory protection appropriate for the dust exposure. Direct particles away from face and body.

The label on your tool may include the following symbols. The symbols and their definitions are as follows:

|     |                            |                |                             |
|-----|----------------------------|----------------|-----------------------------|
| V   | .....volts                 | A              | .....amperes                |
| Hz  | .....hertz                 | W              | .....watts                  |
| min | .....minutes               | ~              | .....alternating current    |
| —   | .....direct current        | n <sub>0</sub> | .....no load speed          |
| □   | .....Class II Construction | r/min          | .....revolutions per minute |
| ⊕   | .....earthing terminal     | BPM            | .....beats per minute       |
| ⚠   | .....safety alert symbol   |                |                             |

### COMPONENTS (FIG. 1)

- Switch
- Anvil

### Motor

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

Volts 50 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

To start the drill, depress the trigger switch; to stop the drill, release the trigger.

### Anvil with Hog Ring

To install a socket on the anvil (B), press the socket on. To remove a socket, pull the socket off.

### Impact Time

Many variables exist that will cause the torque available on any fastener to vary considerably.

### Usage

The DW293 13mm (1/2") impact wrench generates 440 Nm (325 Ft.-Lbs.).

**CAUTION:** Ensure fastener and/or system will withstand the level of torque generated by the tool. Excessive torque may cause breakage and possible personal injury.

- Place the socket on the fastener head. Keep the tool pointed straight at the fastener.
- Press linear switch to start operation. Always check torque with a torque wrench, as the fastening torque is affected by many factors including the following:
  - Voltage:** Low voltage, due to generator or long extension cord, will reduce fastening torque.
  - Socket size:** Failure to use the correct socket size will cause a reduction in fastening torque.
  - Bolt Size:** Larger bolt diameters generally require higher fastening torque. Fastening torque will also vary according to length, grade, and torque coefficient.
  - Bolt:** Ensure that all threads are free of rust and other debris to allow proper fastening torque.
  - Material:** The type of material and surface finish of the material will affect fastening torque.
  - Fastening Time:** Longer fastening time results in increased fastening torque. Using a longer fastening time than recommended could cause the fasteners to be overstressed, stripped or damaged.

### Capacity

Your 13mm (1/2") impact wrench uses sockets with 13mm (1/2") square drive ends.

### Lubrication

Your tool was properly lubricated before leaving the factory. In two to six months, depending upon use, take or send the tool to a certified service center for a thorough cleaning and inspection. This lubrication should only be attempted by trained power tool repair persons, such as those at DeWALT service centers or by other qualified service personnel.

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. If you need any assistance in locating any accessory, please contact DeWALT Industrial Tool Co., 20 Fletcher Road, Mooroolbark, VIC 3138 Australia or call 1800 654 155.

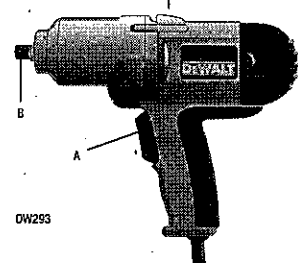
**CAUTION:** The use of any non-recommended accessory may be hazardous.

**CAUTION:** Use only impact sockets. Non-impact sockets may break and cause a hazardous condition. Inspect sockets prior to use to ensure that it contains no cracks.

### Repairs

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment (including brush inspection and replacement) should be performed by certified service centers or other qualified service organizations, always using identical replacement parts.

FIG. 1



**Guarantee**

Applicable to hand held Power Tools, Lasers and Nailers.

**Three Year Limited Warranty**

DeWALT will repair, without charge, any defects due to faulty materials or workmanship for three years from the date of purchase. Please return the complete unit, transportation prepaid, to any DeWALT Service Centre, or any authorised service station.

For warranty repair information, call 1800 654 155.

This warranty does not apply to

- Accessories
- Damage caused where repairs have been made or attempted by others.
- Damage due to misuse, neglect, wear and tear, alteration or modification.

This warranty gives you specific legal rights and you may have other rights under the provisions of the Consumer Guarantee Act 1993 (New Zealand only), Trade Practices Act 1974 and State Legislation (Australia only).

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

**FREE ONE YEAR SERVICE CONTRACT**

DeWALT will also maintain the tool for free at any time during the first year of purchase. This includes labour, parts and lubrication required to restore the product to sound mechanical and/or electrical condition. Normal wear parts are not covered in this service. Carbon brushes worn more than 50% will be replaced.

**NOTE:** Three Year Warranty is not applicable to items deemed as consumables. Radial arm saws are covered by a one (1) year warranty only. DeWALT Reserves the right to review its warranty policy prior to launch of any new business development products.

**30 DAY NO SATISFACTION GUARANTEE**

If you are dissatisfied with any DeWALT power tool, laser or nailer, for any reason, simply return it to the point of purchase with your sales receipt within 30 days for a replacement unit or a full refund.

**FREE WARNING LABEL REPLACEMENT:** If your warning labels become illegible or are missing, call 1800-654-155 for a free replacement.

