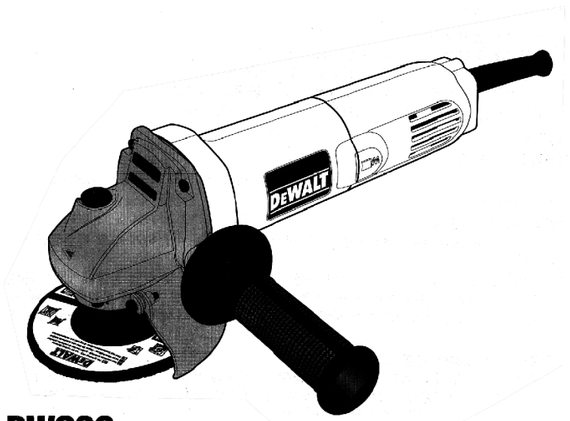
DEWALT®

High Performance Industrial Tools & Accessories



DW800

www.DEWALT.com

This manual is applicable for -XE

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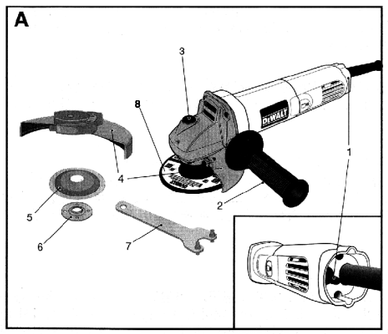

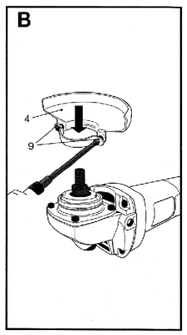

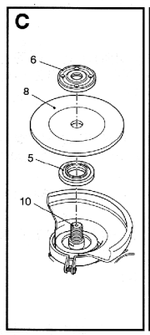

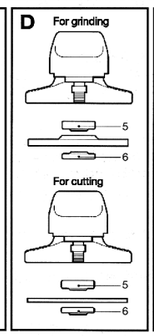

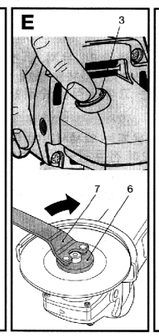

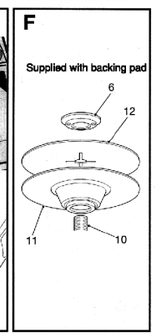

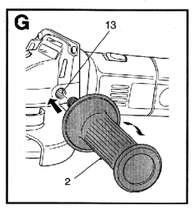

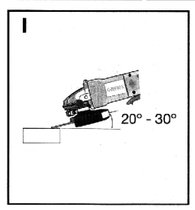

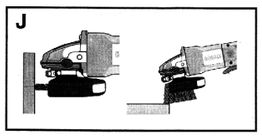

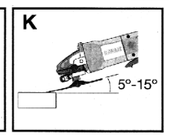

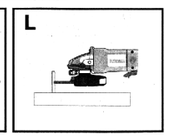

100mm Small Angle Grinder
DW800

Technical Data

Angle Grinder		DW800
Power input	W	680
No load speed	RPM	11,000
Maximum wheel size	mm	Ø100 x 4 x 16
Spindle		M10
Max. wheel RPM	m/s RPM	70 13,500
Weight	Kg	1.45

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 Instrctions

1) Work area

a) Keep work area clean and well lit. Cluttered and dark areas invite accidents.

b) Do not operate power tools in explosive atmospheres, such as inpresence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) Electrical safety

a) 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.

b) 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.

c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

d) 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.

e) 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

a) 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.

b) 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.

c) 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.

d) 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.

e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f) Press 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.

g) 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

a) 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.

b) 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.

c) Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) 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.

e) 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.

f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) 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

a) 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.

Additional Safety Instructions For Australia And New Zealand

a) 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.

b) 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.

Additional Safety Rules For Grinders

- Your grinder has been designed for grinding and cutting masonry and steel.
- ⚠ Do not cut or grind light metal with a magnesium content exceeding 80% since this type of metal is flammable.
- ⚠ Do not use any accessories other than fibre reinforced grinding and cutting discs.
- Use the grinding and cutting discs recommended by the manufacturer only.
- The max. Allowable speed of the grinding wheel or cutting disc must always be equal to or greater than the no-load speed of the tool specified on the nameplate.
- Do not cut workpieces requiring a maximum depth of cut exceeding that of the cutting disc.
- Do not use grinding and cutting discs that do not conform to the dimensions stated in the technical data.
- Do not use any spacers to make a disc fit onto the spindle.
- Inspect grinding and cutting discs before each use. Do not use chipped, cracked or otherwise defective discs.
- If provided, ensure that blotters are used when the disc is fitted onto the spindle.
- When applying a threaded hole disc, ensure that the thread is long enough to accept the spindle.
- Ensure that the grinding or cutting disc is mounted correctly before use.
- Let the tool run at no-load in a safe position for at least 30 seconds. If there is a considerable vibration or if any other defect occurs, stop the tool and check it to determine the cause.
- Do not operate this tool without the guard in place.
- Check that the workpiece is properly supported.
- Do not operate the tool near flammable liquids, gases or dust. Sparks or hot chips from cutting or arcing motor brushes may ignite combustible matirials.
- Do not operate the tool while standing in line with the disc. Keep other persons away from the work area.
- Do not use cutting discs for side grinding.
- Do not operate the spindle lock while the tool is running.
- Beware that after switching off the tool the wheel continues to rotate for a short period.
- Always store grinding and cutting discs in a dry place.

Labels on your tool

They may include the following symbols.

V ..... volts
A ..... Amperes
Hz ..... Hertz
W ..... Watts
Min. ..... Minutes
~ ..... Alternating current
⎓ ..... Direct current
n_0 ..... No load speed
⧈ ..... Class II Construction
⏚ ..... Earthing terminal
⚠ ..... Safety alert symbol
.../min ..... Revolutions or reciprocation per minute

Save these instructions!

Double Insulation

⧈ The tool is double insulated. Double insulation means that all the external metal parts are electrically insulated from the mains power supply. This is done by placing insulated barriers between the electrical and mechanical components so as to making unnecessary for the tool to be earthed. **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.

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.

⚠ **Warning:** Never connect the live (L) or neutral (N) wires to the earth pin marked E or ⏚.

Using an Extension Cable

An extension cable should not be used unless absolutely necessary. Use of an improper extension cable could result in a risk of fire and electric shock. If an extension cable must be used, use only those that are approved by the country's Electrical Authority. Make sure that extension cord is in good condition before using. Always use the cord that is suitable for the power input of your tool (see technical data on name plate). The minimum conductor size is **1.0mm²**.

When using a cable reel, always unwind the cable completely.

Description (fig. A)

Your DEWALT small angle grinder has been designed for professional grinding, cutting, wire-cup brushing and sanding applications.

1. On / Off switch lever
2. Side handle
3. Spindle lock
4. Wheel guard
5. Inner flange
6. Threaded flange
7. 2 pin spanner
8. Grinding wheel

Assembly and Adjustment

⚠ Prior to assembly and adjustment always unplug the tool.

N.B. Accessories mentioned in this manual may not necessarily be included in your pack.

Mounting and Removing the Guard (Fig. B)

- To mount the guard, place the angle grinder on a table, spindle up.
- **Fit the guard (4) onto the boss of the gear case cover in the position shown in Fig B.**
- Securely tighten the screws (9).
- ⚠ Do not operate the grinder with a loose guard.
- Follow the procedure above in reverse order to remove the guard.

Mounting and Removing Grinding Wheels or Cutting Discs (Fig. C-E)

Your grinder comes with two flanges to accommodate a wide variety of different accessories. Make sure the correct sides of the flanges are being used ensuring no excessive play between the accessory and the flanges.

- To mount the wheel, place the inner flange (5) on the grinder spindle (10) (fig. C)
- Place the wheel (8) against the flange. Screw the threaded flange (6) onto the spindle (10). (fig. C).
- Make sure that the threaded outer flange (6) is facing in the correct direction for the type of disc fitted. For grinding discs, the flange (6) is fitted with the raised portion facing towards the disc (fig. D). For cutting discs, the flange (6) is fitted with the **Raised portion facing away from the disc (fig. D).**
- Press in the spindle lock button (3) and rotate the spindle until it locks. Keeping the lock button pressed in, tighten the threaded flange (6) with the spanner (7) provided (fig. E)
- Release the spindle lock.
- Follow the procedure above in reverse order to remove wheel.

Fitting a Wire Cup Brush

- Screw the wire cup brush (not supplied) directly onto the spindle without using the inner and threaded flanges.

Mounting and Removing the Rubber Backing Pad (Fig. E & F)

The rubber-backing pad is available as an option. The guard is not required when using the tool for sanding with the backing pad.

- To mount the rubber pad, first remove the guard from the tool.
- Press the backing pad (11) onto the spindle (10). **The inner and outer flange are not required for this operation.**
- Position the abrasive disk (12) on the pad.
- Screw the threaded flange **Supplied with the backing pad onto the spindle.**
- Press the spindle lock (3) and rotate the pad until it locks in position (fig. E).
- Tighten the threaded flange using the two-pin spanner (7) supplied (fig. E)
- Release the spindle lock.
- To remove, follow the procedure above in reverse order.

Mounting the Side Handle (Fig. G)

- Screw the side handle (2) tightly into one of the holes (13) on either side of the gear case.

Instruction for Use

⚠ Always observe the safety instructons and applicable regulations.

- Ensure all materials to be ground or cut are secured in place.
- Apply only a gentle pressure to the tool. Do not exert side pressure on the grinding wheel or cutting disk.
- Avoid overloading. Should the tool become hot, let it run a few minutes under no load condition.

Prior to Operation

- Install the appropriate guard and disk or wheel. Do not use excessively worn disks or wheels.
- Be sure the inner and threaded flanges are mounted correctly.
- Make sure the disk or wheel rotates in the direction of the arrows on the accessory and the tool.

Switching On And Off (Fig. A)

⚠ Make sure that the switch is in the O (OFF) position before plugging in.

- To run the tool, select switch lever (1) to I (ON) position.
- To stop the tool, select switch lever to O (OFF) position.
- Always switch off the tool when work is finished and before unplugging.

⚠ Do not switch the tool ON and OFF when under load.

Handy Hints

Grinding (Fig. I)

Use a depressed center Type 27 disk. Hold the tool at an angle of approximately **20°-30° to work for grinding**.

Wire Brushing (Fig. J)

Use wire brushes to clean welds, metal corners, and angles, and to remove paint.

⚠ Use a guard with wire brushes and wheels. Operators and others in the area should wear appropriate eye, face and body protection. Strands of wire may break and fly off when wire wheels and brushes are in use.

Sanding with Abrasive Disks (Fig. K)

When using an abrasive disk and rubber-backing pad, hold the tool so that an angle of 5° to 15° exists between the disk and the work. Using an angle of 5° to 15° will allow you to produce a smooth surface. If only the outer edge of the sanding disk is pressed flat against the work, the sanding action will be irregular and bumpy and the tool will be difficult to control.

Edge Grinding and Cutting (Fig. L)

⚠ Do not use cutting wheels for surface grinding applications because these wheels are not designed for side pressures encountered with surface grinding. Wheel breakage and injury may result.

cutting can be performed with type 27 wheels designed and specificed for this purpose. Protect yourself during cutting by directing the open side of the guard toward a surface. cutting wheels should contact the work surface only at the edge of the wheel, not on the top or bottom of the wheel. Side pressure on the wheel could lead to breakage of the wheel.

Maintenance

Your DEWALT power tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

Your tool is not user-serviceable. Take the tool to an authorized DEWALT repair agent. This tool should be serviced at regular intervals or when showing a noticeable change in performance.

Lubrication

DEWALT power tools are properly lubricated at the factory and are ready for use. Tools should be re-lubricated regularly every sixty days to six months, depending on usage. This lubrication should only be attempted by trained power tool repairpersons, such as those at DEWALT service centers or by other qualified service personnel.

Motor Brushes

The brushes should be checked periodically and worn-out brushes should be replaced. Brush replacement should be performed by a DEWALT authorized service center or other qualified service personnel.

Cleaning

⚠ **Warning:** unplug the tool before you use a cloth to clean the housing.

With the motor running, blow dirt and dust out of all air vents with dry air at least once a week. Wear safety glasses when performing this. Exterior plastic parts may be cleaned with a damp cloth and mild detergent. Although these parts are highly solvent resistant, NEVER use solvents.

Tool Care

Avoic overloading the machine for long period.

Overloading will result in a considerable reduction in speed and efficiency and the unit will become hot. In this event, run the machine at no load for a minute or two until cooled to normal working temperature by the built in fan. Switching your machine on and off whilst under load will considerably reduce the life of the switch.

Important

To ensure product SAFETY and RELIABILITY, repairs, maintenance and adjustment (other than those listed in this manual) should be performed by authorized service centers or other qualified organizations, always-using identical replacement parts. Unit contains no user serviceable parts inside.

Accessories

The performance of any power tool is dependent upon the accessory used. DEWALT accessories are engineered to high quality standards and are designed to enhance the performance of power tool. By using DEWALT accessories you will get the very best from your tool.

DEWALT offers a large selection of accessories available at our local dealer or authorized service center at extra cost.

Note: Accessory must be rated for use at speed equal to or higher than nameplate RPM of tool with which it is being used.

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

Protecting The Environment

♻ Should you find one day that your tool needs replacement, or if it is of no further use to you, think of the protection of the environment. DEWALT recommends you to contact your local council for disposal information.

Service Information

DEWALT offers a full network of company-owned and authorized service locations throughout Australia. All DEWALT Service Centers are staffed with trained personnel to provide customers with efficient and reliable power tool service.

Whether you need technical advice, repair, or genuine factory replacement parts, contact the DEWALT location nearest to you.

Notes

- DEWALT's policy is one of continuous improvement to our products and, as such, we reserve the right to change product specifications without prior notice.
- Standard equipment and accessories may vary by country.
- Product specifications may differ by country.
- Complete product range may not be available in all countries. Contact your local DEWALT dealers for range availability.

DEWALT After Sales Service Repair And Service

All DEWALT power tools are thoroughly tested before leaving the factory. However, if the power tool needs repair, please contact your dealer or take it to your nearest DEWALT Service Centre. There is a Service Centre in every capital city.For service, repair or parts call 1800 654 155 (Aust) or 09 526 2556 (NZ).

Guarantee

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). 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: 3 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 Risk 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.

Australia

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