DEWALT®

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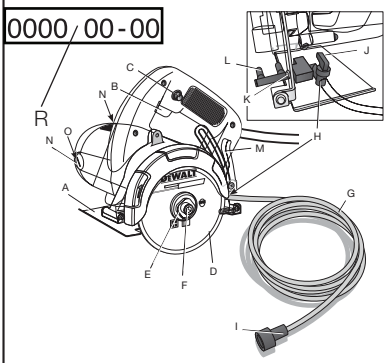
DW862

FIG. 1



Point G to L: For units with Wet kit only
零件G 到 L：仅限水管套装

Blade not included

不包含刀片

FIG. 2

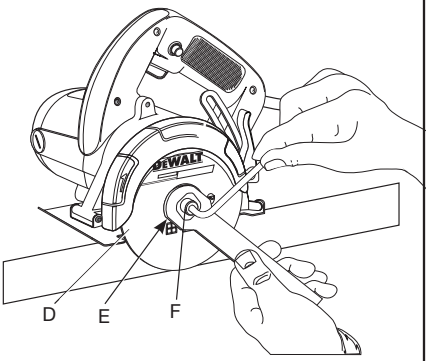


FIG. 3

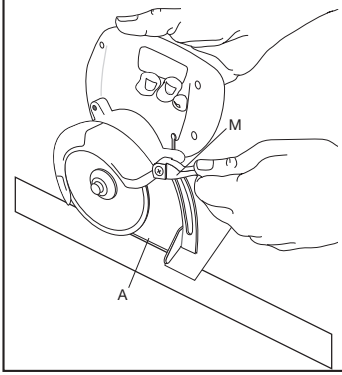


FIG. 4

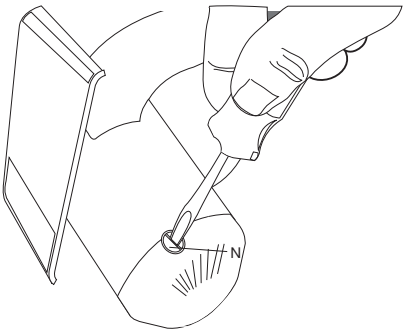


FIG. 5

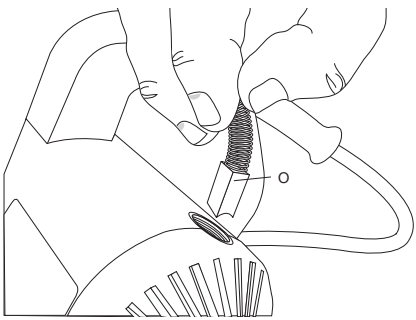
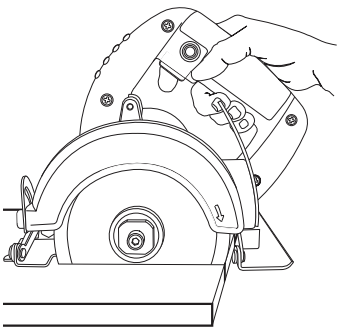


FIG. 6



TILE CUTTER
DW862

Congratulations!

You have chosen a DEWALT tool. Years of experience, thorough product development and innovation make DEWALT one of the most reliable partners for professional power tool users.

Technical Data

		DW862
Voltage	V	220-240
Power input	W	1270
Frequency	Hz	50/60
No-load speed	/min	13500
Wheel diameter	mm	110
Max. Depth of Cut	mm	34

Definitions: Safety Guidelines

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.

DANGER: *Indicates an imminently hazardous situation which, if not avoided,* ***will*** *result in* ***death or serious injury****.*

WARNING: *Indicates a potentially hazardous situation which, if not avoided,* ***could*** *result in* ***death or serious injury****.*

CAUTION: *Indicates a potentially hazardous situation which, if not avoided,* ***may*** *result in* ***minor or moderate injury****.*

NOTICE: *Indicates a practice* ***not related to personal injury*** *which, if not avoided,* ***may*** *result in* ***property damage****.*

Denotes risk of electric shock.

Denotes risk of fire.

WARNING: *To reduce the risk of injury, read the instruction manual.*

General Power Tool Safety Warnings

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

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) WORK AREA SAFETY

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

b) *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.*

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.*

f) ***If operating a power tool in a damp location is unavoidable, use a residual***

current device (RCD) protected supply. *Use of an RCD 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 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.*

c) ***Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/or battery pack, picking up or carrying the tool.*** *Carrying power tools with your finger on the switch or energising 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) ***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.*

g) ***If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.*** *Use of dust collection 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 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.*

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 tool's 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 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.*

SAFETY INSTRUCTIONS FOR CUTTING-OFF OPERATIONS CUT-OFF MACHINE SAFETY WARNINGS

a) ***The guard provided with the tool must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. Position yourself and bystanders away from the plane of the rotating wheel.*** *The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.*

b) ***Use only diamond cut-off wheels for your power tool.*** *Just because an accessory can be attached to your power tool, it does not assure safe operation.*

c) ***The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.*** *Accessories running faster than their rated speed can break and fly apart.*

d) ***Wheels must be used only for recommended applications. For example:***

do not grind with the side of cut-off wheel. *Cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.*

e) ***Always use undamaged wheel flanges that are of correct diameter for your selected wheel.*** *Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage*

f) ***Do not use worn down reinforced wheels from larger power tools.*** *Wheels intended for a larger power tool are not suitable for the higher speed of a smaller tool and may burst.*

g) ***The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.*** *Incorrectly sized accessories cannot be adequately guarded or controlled.*

h) ***The arbour size of wheels and flanges must properly fit the spindle of the power tool.*** *Wheels and flanges with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.*

i) ***Do not use damaged wheels. Before each use, inspect the wheels for chips and cracks. If power tool or wheel is dropped, inspect for damage or install an undamaged wheel. After inspecting and installing the wheel, position yourself and bystanders away from the plane of the rotating wheel and run the power tool at maximum no load speed for one minute.*** *Damaged wheels will normally break apart during this test time.*

j) ***Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and shop apron capable of stopping small workpiece fragments.*** *The eye protection must be cap-able of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.*

k) ***Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.*** *Fragments of workpiece or of a broken wheel may fly away and cause injury beyond immediate area of operation.*

l) ***Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.*** *Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.*

m) ***Position the cord clear of the spinning accessory.*** *If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning wheel.*

n) ***Never lay the power tool down until the accessory has come to a complete stop.*** *The spinning wheel may grab the surface and pull the power tool out of your control.*

o) ***Do not run the power tool while carrying it at your side.*** *Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.*

p) ***Regularly clean the power tool's air vents.*** *The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.*

q) ***Do not operate the power tool near flammable materials.*** *Sparks could ignite these materials.*

r) ***Do not use accessories that require liquid coolants.*** *Using water or other liquid coolants may result in electrocution or shock.*

FURTHER SAFETY INSTRUCTIONS FOR CUTTING-OFF OPERATIONS KICKBACK AND RELATED WARNINGS

Kickback is a sudden reaction to a pinched or snagged rotating wheel. Pinching or snagging causes rapid stalling of the rotating wheel which in turn causes the uncontrolled power tool to be forced in the direction opposite of the wheel's rotation at the point of the binding.

For example, if a wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

a) ***Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use***

auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up. *The operator can control torque reactions or kickback forces, if proper precautions are taken.*

b) ***Never place your hand near the rotating accessory.*** *Accessory may kickback over your hand.*

c) ***Do not position your body in line with the rotating wheel.*** *Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.*

d) ***Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.*** *Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.*

e) ***Do not attach a saw chain, woodcarving blade, segmented diamond wheel with a peripheral gap greater than 10 mm or toothed saw blade.*** *Such blades create frequent kickback and loss of control.*

f) ***Do not "jam" the wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.*** *Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.*

g) ***When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the wheel from the cut while the wheel is in motion otherwise kickback may occur.*** *Investigate and take corrective action to eliminate the cause of wheel binding.*

h) ***Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut.*** *The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.*

i) ***Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.*** *Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.*

j) ***Use extra caution when making a "pocket cut" into existing walls or other blind areas.*** *The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.*

Additional Safety Instructions for Tile Cutter

- ***Do not reach underneath the work.*** *The guard can not protect you from the blade below the work.*
- ***NEVER hold piece being cut in your hands or across your leg.*** *It is important to support the work properly to minimize body exposure, blade binding, or loss of control.*
- ***Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.*** *Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electrical shock.*
- ***Always use blades with correct size of 20 mm and round arbor holes.*** *Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.*
- ***Never use damaged or incorrect blade washers or bolts.*** *The blade washers and bolts were specially designed for your saw, for optimum performance and safety of operation.*
- ***Wait for the saw to come to a complete stop.*** *An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.*
- ***Never use any blades with expansion or segmented (toothed) rims.*** *This tool is not equipped with a lower guard.*

⚠ ***WARNING: Keep hands away from cutting area and blade.*** *Personal injury may result.*

⚠ ***WARNING: Always plug extension cord into a RCD protected outlet.***

⚠ ***WARNING:*** *To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch plug with wet hands.*

⚠ ***WARNING:*** *When using an extension cord, always plug into a RCD protected outlet.*

⚠ ***WARNING:*** *Never use saw with salt water or a conductive fluid.*

- ***Air vents often cover moving parts and should be avoided.*** *Loose clothes, jewelry or long hair can be caught in moving parts.*

⚠ ***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.

- ***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.*** *Allowing 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 disburse 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.*

⚠ ***WARNING: ALWAYS*** *USE SAFETY GLASSES. Everyday eyeglasses are NOT safety glasses. Also use face or dust mask if cutting operation is dusty.*

Residual Risks

- *The following risks are inherent to the use of these machines:*
  - *Injuries caused by touching the rotating parts.*
  - *Injuries caused by disruption of the cutting disc.*
- *These risks are most evident:*
  - *Within the range of operation.*
  - *Within the range of the rotating machine parts.*
- *In spite of the application of the relevant safety regulations and the implementation of safety devices, certain residual risks cannot be avoided. These are:*
  - *Impairment of hearing.*
  - *Risk of accidents caused by the uncovered parts of the rotating cutting disc.*
  - *Risk of injury when changing the disc.*
  - *Risk of squeezing fingers when opening the guards.*

Markings on Tool

The following pictograms are shown on the tool:


Read instruction manual before use.


Wear eye protection.


Wear ear protection.

DATE CODE POSITION

The date code (R), which also includes the year of manufacture, is printed into the housing surface.

Example:

2014 XX XX

Year of Manufacture

Package Contents

The package contains:

1 Tile Cutter
1 Spanner
1 Socket Wrench
1 Instruction manual

- *Check for damage to the tool, parts or accessories which may have occurred during transport.*
- *Take the time to thoroughly read and understand this manual prior to operation.*

Description (fig. 1,2,3)

⚠ ***WARNING:*** *Never modify the power tool or any part of it. Damage or personal injury could result.*

A. Shoe
B. Trigger switch
C. Lock-on button
D. Diamond blade
E. External flange
F. Clamping screw
G. Water tubing
H. Tool inlet
I. Water tubing adapter
J. Water valve lever
K. Tapping screw
L. Forked water valve
M. Depth adjustment lever
N. Brush covers
O. Brush assembly

INTENDED USE

Your DW862 tile cutter has been designed for professional tile cutting.

DO NOT use in wood or metal cutting applications. Do not use steel tooth blades or tungsten tipped tooth blades for wood or metal cutting.

⚠***WARNING:*** *Wheels must be used only for recommended applications.*

The DW862 tile cutter is a professional power tool.

DO NOT let children come into contact with the tool. Supervision is required when inexperienced operators use this 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.

Your DEWALT tool is double insulated; therefore no earth wire is required.

If the supply cord is damaged, it must be replaced by a specially prepared cord available through the DEWALT service organisation.

Using an Extension Cable

If an extension cable is required, use an approved 3–core extension cable suitable for the power input of this tool (see ***Technical Data***).The minimum conductor size is 1.5 mm^2; the maximum length is 30 m.

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

Connecting to the Mains

The mains supply to be used for this machine must be equipped with a 16 A cut-out fuse with time delay.

Voltage Drops

Inrush currents cause short-time voltage drops. Under unfavourable power supply conditions, other equipment may be affected.

If the system impedance of the power supply is lower than 0.11 Ω, disturbances are unlikely to occur.

POWER SUPPLY

Be sure your power supply agrees with the nameplate marking. A voltage decrease of more than 10% will cause a loss of power and overheating.

Switching On And Off (fig. 1)

- To switch the tool on, press the on/off switch(1).
- To switch the tool off, release the on/off switch.
- This tool has a lock-on feature. To activate press the on/off switch and the then lock-on button (2). To de-activate press the on/off switch button again.
- Always switch off the tool when work is finished and before unplugging.

Assembly and adjustments

⚠***WARNING:*** ***To reduce the risk of injury, turn unit off and disconnect tool from power source before installing and removing accessories, before making any adjustments or removing/ installing attachments or accessories.*** *An accidental start-up can cause injury.*

⚠***WARNING:*** *Prior to assembly and adjustment, always unplug tool.*

To Install the Diamond Blade (Fig. 2)

1. Place saw on a stable surface.
2. Place blade (D) on spindle.
3. Using the flange wrench provided, hold the external flange (E)
4. Turn the clamping screw (F) counterclockwise to tighten. Use the hex wrench provided to secure tightly.
5. To remove the blade, reverse this procedure.

⚠***WARNING:*** *Use only diamond cut-off wheels for your power tool.*

OPERATION

⚠***WARNING:*** *Always observe the safety instructions and applicable regulations.*

⚠***WARNING:*** ***To reduce the risk of injury, turn unit off and disconnect tool from power source before installing and removing accessories,***

before making any adjustments or removing/ installing attachments or accessories. *An accidental start-up can cause injury.*

⚠***CAUTION:*** *Use the appropriate blade. Do not use cracked, damaged or excessively worn blades.*

⚠***CAUTION:*** *Wait for the blade to reach the maximum speed and use a slow even feed for proper cutting.*

⚠***CAUTION:*** *The DW862 should only be used on horizontal surfaces.*

Depth of Cut Adjustment (Fig. 3)

1. Push the depth adjustment lever (M) down to release.
2. Move the shoe (A) up or down to desired position.
3. Pull the depth adjustment lever up to tighten.

TO ADJUST THE DEPTH ADJUSTMENT LEVER POSITION

The depth adjustment lever has been preset for better positioning. To make any adjustments, use the following procedure:

1. Firmly tighten the depth adjustment lever.
2. Turn the screw that secures the lever in place counterclockwise to loosen completely. Remove the lever and screw together from the nut. (The screw is spring loaded, try not to separate these parts).
3. Set the lever to the desired position.
4. Tighten the screw turning it clockwise.

Motor Brushes (FIG.4,5)

1. Remove and check carbon brushes regularly. Replace when they have worn down to about 6mm or less.
2. Keep carbon brushes clean for free movement in the holder. Both carbon brushes should be replaced at the same time.
3. Use only DEWALT carbon brushes.
4. Use a screwdriver to remove brush caps (N). Take out worn brushes, insert new ones(O), and secure the brush caps.

Straight Cuts (Fig. 6)

1. Using a marker or grease pencil, mark the area to be cut. Keep the cutting line straight.
2. Place the shoe of the saw on the workpiece ensuring that the blade does not touch the workpiece.
3. Align the edge of the shoe (A) with the cut outline on the workpiece.
4. Turn the tool on and wait for the blade to reach its maximum velocity.
5. Move the tool slowly and evenly forward, following the cut line.
6. Be sure to move the tool gently forward, in a straight line. Forcing, or exerting excessive pressure, or allowing the wheel to bend, pinch or twist in the cut can cause the motor to over heat and tool to kickback dangerously.
7. When cutting the work piece over 20mm deep, make 2 or 3 separate cuts to prevent motor failure.

⚠***WARNING:*** *This tool should only be used on horizontal surfaces.*

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.

⚠***WARNING: To reduce the risk of injury, turn unit off and disconnect machine from power source before installing and removing accessories, before adjusting or changing set-ups or when making repairs.*** *Be sure the trigger switch is in the OFF position. An accidental start-up can cause injury.*

⚠***WARNING:*** *Do not use liquid coolants for any applications.*

Lubrication

Your power tool requires no additional lubrication.

Cleaning

⚠***WARNING:*** *Blow dirt and dust out of the main housing with dry air as often as dirt is seen collecting in and around the air vents. Wear approved eye protection*

and approved dust mask when performing this procedure.

WARNING: *Never use solvents or other harsh chemicals for cleaning the non-metallic parts of the tool. These chemicals may weaken the materials used in these parts. Use a cloth dampened only with water and mild soap. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.*

Optional Accessories

WARNING: *Since accessories, other than those offered by DEWALT, have not been tested with this product, use of such accessories with this tool could be hazardous. To reduce the risk of injury, only DEWALT, recommended accessories should be used with this product.*

Consult your dealer for further information on the appropriate accessories.

Protecting the Environment

Separate collection. This product must not be disposed of with normal household waste.

Should you find one day that your DEWALT product needs replacement, or if it is of no further use to you, do not dispose of it with household waste. Make this product available for separate collection.

Separate collection of used products and packaging allows materials to be recycled and used again. Re-use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.

Local regulations may provide for separate collection of electrical products from the household, at municipal waste sites or by the retailer when you purchase a new product.

DEWALT provides a facility for the collection and recycling of DEWALT products once they have reached the end of their working life. To take advantage of this service please return your product to any authorised repair agent who will collect them on our behalf.

You can check the location of your nearest authorised repair agent by contacting your local DEWALT office at the address indicated in this manual. Alternatively, a list of authorised DEWALT repair agents and full details of our after-sales service and contacts are available on the Internet at: **www.2helpU.com**.