DEWALT®

DWE8300
DWE8310

www.DEWALT.com

Figure 1

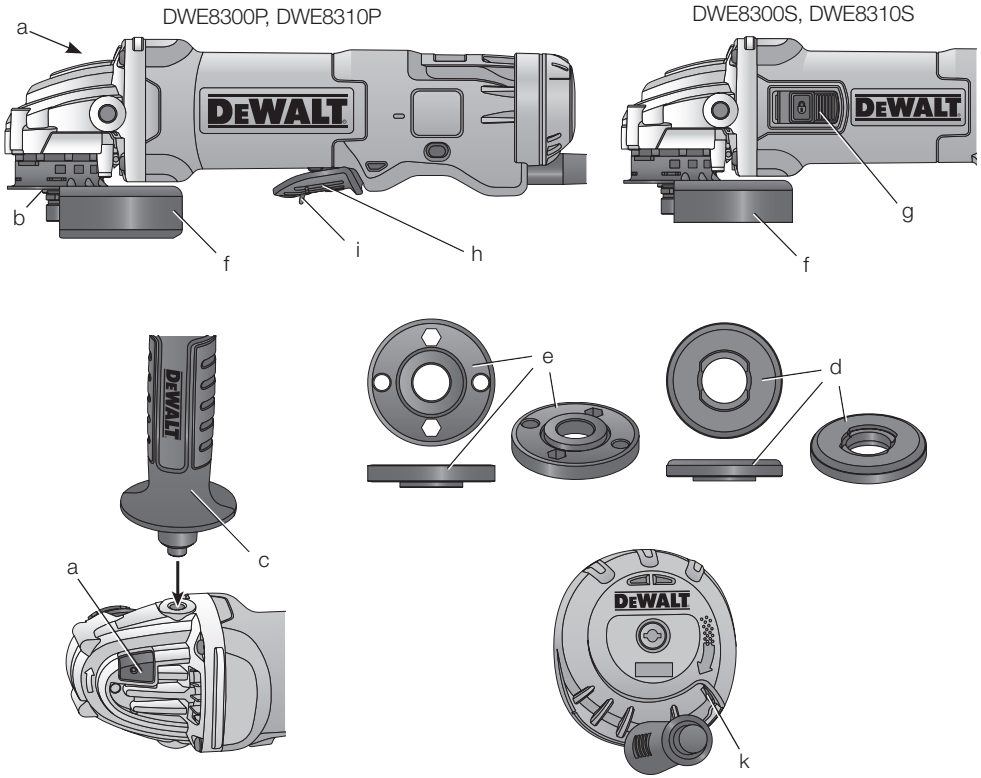


Figure 2

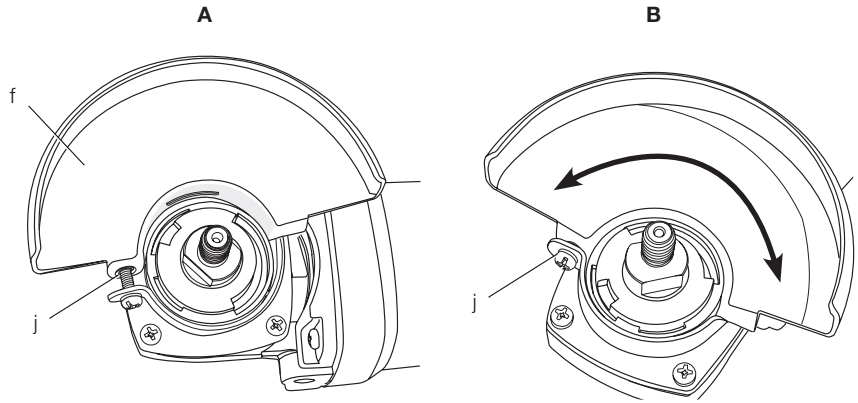


Figure 3

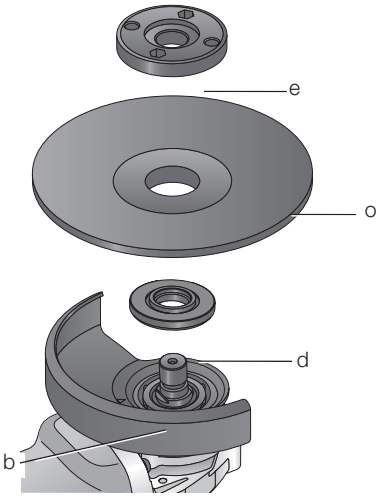


Figure 4

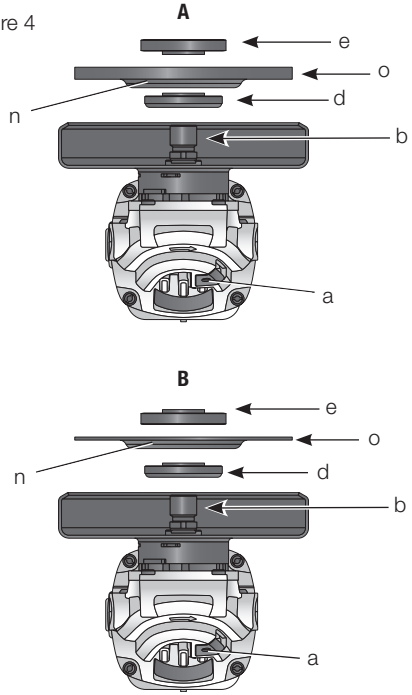


Figure 5

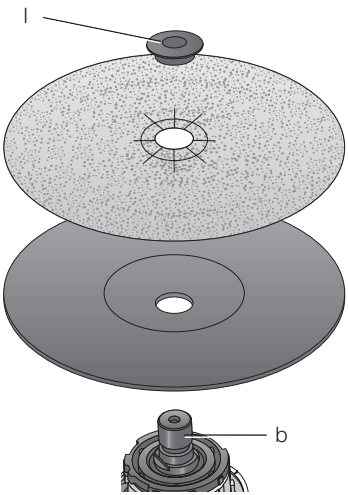
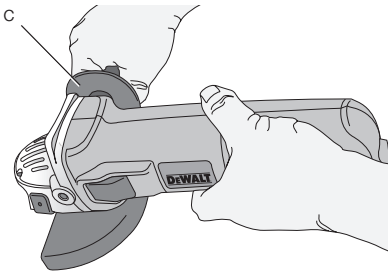


Figure 6



SMALL ANGLE GRINDERS
DWE8300. DWE8310

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

		DWE8300S	DWE8300P	DWE8310S	DWE8310P
Voltage	V_{AC}	220-240	220-240	220-240	220-240
Power input	W	1010	1010	1010	1010
No-load/rated speed	min^{-1}	11,500	11,500	11,500	11,500
Wheel diameter	mm	100	100	125	125
Wheel thickness (max)	mm	6.0	6.0	6.0	6.0
Spindle diameter		M10	M10	M14	M14
Spindle length	mm	18.5	18.5	18.5	18.5
Switch Style		Slide	Paddle	Slide	Paddle
Weight	kg	1.85	1.85	1.85	1.85

* weight includes side handle and guard

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.*

ADDITIONAL SPECIFIC SAFETY RULES

Safety Instructions for All Operations

a) ***This power tool is intended to function as a grinder, sander, wire brush or cut-off tool. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.*** *Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.*

b) ***Operations such as polishing are not recommended to be performed with this power tool.*** *Operations for which the power tool was not designed may create a hazard and cause personal injury.*

c) ***Do not use accessories which are not specifically designed and recommended by the tool manufacturer.*** *Just because the accessory can be attached to your power tool, it does not assure safe operation.*

d) ***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.*

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

f) ***Threaded mounting of accessories must match the grinder spindle thread. For accessories mounted by flanges, the arbour hole of the accessory must fit the locating diameter of the flange.*** *Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.*

g) ***Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheel for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.*** *Damaged accessories will normally break apart during this test time.*

h) ***Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments.*** *The eye protection must be capable 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.*

i) ***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 accessory may fly away and cause injury beyond immediate area of operation.*

j) ***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 electrical shock.*

k) ***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 accessory.*

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

m) ***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.*

n) ***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.*

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

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

q) ***Do not use Type 11 (flaring cup) wheels on this tool.*** *Using inappropriate accessories can result in injury.*

r) ***Always use side handle. Tighten the handle securely.*** *The side handle should always be used to maintain control of the tool at all times.*

FURTHER SAFETY INSTRUCTIONS FOR ALL OPERATIONS

Causes and Operator Prevention of Kickback

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

For example, if an abrasive 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. Abrasive wheels may also break under these conditions.

Kickback is the result of 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 reaction 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 the area where power tool will move if kickback occurs.*** *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 or toothed saw blade.*** *Such blades create frequent kickback and loss of control.*

Safety Warnings Specific for Grinding and Abrasive Cutting-Off Operations

a) ***Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel.*** *Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.*

b) ***The grinding surface of centre depressed wheels must be mounted below the plane of the guard lip.*** *An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected.*

c) ***The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator.*** *The guard helps to protect the operator from broken wheel fragments, accidental contact with wheel and sparks that could ignite clothing.*

d) ***Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel.*** *Abrasive 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 size and shape for your selected wheel.*** *Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.*

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

Additional Safety Warnings Specific for Abrasive Cutting-Off Operations

a) ***Do not "jam" the cut-off 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.*

b) ***Do not position your body in line with and behind the rotating wheel.*** *When the wheel, at the point of operations, is moving away from your body, the possible kickback may propel the spinning wheel and the power tool directly at you.*

c) ***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 cut-off 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.*

d) ***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.*

e) ***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.*

f) ***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.*

Safety Warnings Specific for Sanding Operations

a) ***Do not use excessively oversized sanding disc paper. Follow manufacturer's recommendations, when selecting sanding paper.*** *Larger sanding paper extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc or kickback.*

Safety Warnings Specific for Wire Brushing Operations

a) ***Be aware that wire bristles are thrown by the brush even during ordinary operation. Do not overstress the wires by applying excessive load to the brush.*** *The wire bristles can easily penetrate llight clothing and/or skin.*

b) ***If the use of a guard is recommended for wire brushing, do not allow any interference of the wire wheel or brush with the guard.*** *Wire wheel or brush may expand in diameter due to work and centrifugal forces.*

Additional Safety Rules for Grinders

- *Threaded mounting of accessories must match the grinder spindle thread. For accessories mounted by flanges, the arbor hole of the accessory must fit the locating diameter of the flange. Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.*
- *The grinding surface of the centre depressed wheels must be mounted below the plane of the guard lip. An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected.*

Residual Risks

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 personal injury due to flying particles.*
- *Risk of burns due to accessories becoming hot during operation.*
- *Risk of personal injury due to prolonged use.*
- *Risk of dust from hazardous substances.*

Markings on Tool

The following pictograms are shown on the tool:


Read instruction manual before use.


Wear ear protection.


Wear eye protection.

DATE CODE POSITION

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

Example:

2014 XX XX

Year of Manufacture

Package Contents

The package contains:

1 Angle grinder
1 Guard
1 Side handle
1 Flange set
1 Hex key(DWE8310S)
1 Two pin spanner(DWE8300S)

1 Instruction manual

1 exploded drawing

- *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. Spindle lock button
b. Spindle
c. Side handle
d. Backing flange
e. Threaded locking flange
f. Guard
g. Slider switch (DWE8300S, DWE8310S)
j. Guard release screw
k. Dust ejection system
H. Paddle switch (DWE8300P, DWE8310P)

INTENDED USE

The DWE8300 and DWE8310 heavy-duty small angle grinders have been designed for professional grinding, sanding, wire brushing and cutting applications.

DO NOT use grinding wheels other than centre depressed wheels and flap discs.

DO NOT use under wet conditions or in the presence of flammable liquids or gases.

These heavy-duty angle grinders are professional power tools.

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

- **Young children and the infirm.** This appliance is not intended for use by young children or infirm persons without supervision.
- This product is not intended for use by persons (including children) suffering from diminished physical, sensory or mental abilities; lack of experience, knowledge or skills unless they are supervised by a person responsible for their safety. Children should never be left alone with this product.

Anti-vibration Side Handle

The anti-vibration side handle offers added comfort by absorbing the vibrations caused by the tool.

Dust Ejection System (fig. 1)

The dust ejection system (k) prevents dust pile-up around the guard and motor inlet, and minimises the amount of dust entering the motor housing.

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 in accordance with IEC 60745; 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.

ASSEMBLY AND ADJUSTMENTS

WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories. *Before reconnecting the tool, depress and release the trigger switch to ensure that the tool is off.*

Attaching Side Handle (fig. 1)

WARNING: *Before using the tool, check that the handle is tightened securely.*

Screw the side handle (c) tightly into one of the holes on either side of the gear case. The side handle should always be used to maintain control of the tool at all times.

Accessories and Attachments

It is important to choose the correct guards, backing pads and flanges to use with grinder accessories. Refer to chart at the end of this section for information on choosing the correct accessories.

NOTE: Edge grinding can be performed with wheels designed and specified for this purpose.

WARNING: *Accessories must be rated for at least the speed recommended on the tool warning label. Wheels and other accessories running over rated accessory speed may burst and cause injury. Threaded accessories must have a M14 hub. Every unthreaded accessory must have a 22 mm arbor hole. If it does not, it may have been designed for a circular saw and should not be used. Use only the accessories shown in the chart at the end of this section. Accessory ratings must be above listed minimum wheel speed as shown on tool nameplate.*

Mounting Guards

WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories. *Before reconnecting the tool, depress and release the trigger switch to ensure that the tool is off.*

CAUTION: *Guards must be used with this grinder.*

When using the DWE8300 or the DWE8310 grinder for cutting metal or masonry, a guard MUST be used. Guards are available at extra cost from DEWALT distributors.

Mounting and Removing the Guard (fig. 2)

WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories. *Before reconnecting the tool, depress and release the trigger switch to ensure that the tool is off.*

TO MOUNT THE GUARD

1. Place the angle grinder on a table, spindle up.
2. Press the guard down (fig. 2A).
3. Postion the guard between your body and work piece.
4. Tight the screw holding the cinch collar firmly around the neck of spindle (fig. 2B)

TO REMOVE THE GUARD

1. Loosen the screw holding the cinch collar around the neck of the spindle.
2. Lift up on the guard.

WARNING: *Never use the tool without the guard in place.*

Fitting and Removing a Grinding or Cutting Disc (fig. 1, 3, 4)

WARNING: *Do not use a damaged disc.*

1. Place the tool on a table, guard up.
2. Fit the backing flange (d) correctly onto the spindle (b) (fig. 3).
3. Place the disc (o) on the backing flange (d). When fitting a disc with a raised centre, make sure that the raised centre (n) is facing the backing flange (d).
4. Screw the threaded locking flange (e) onto the spindle (b) (fig. 4):
   a. The ring on the threaded locking flange (e) must face towards the disc when fitting a grinding disc (fig. 4A);
   b. The ring on the threaded locking flange (e) must face away from the disc when fitting a cutting disc (fig. 4B).
5. Press the spindle lock button (a) and rotate the spindle (b) until it locks in position.
6. Tighten the threaded locking flange (e) with the hex key provided or a two pin spanner.
7. Release the spindle lock.
8. To remove the disc, loosen the threaded locking flange (e) with the hex key provided or a two pin spanner.

NOTE: Edge grinding can be performed with wheels designed and specified for this purpose; 6 mm thick wheels are designed for surface grinding while 3 mm wheels are designed for edge grinding. Cutting can be performed by using a cutting wheel and a guard.

Mounting Wire Brushes and Wire Wheels

Wire cup brushes or wire wheels screw directly on the grinder spindle without the use of flanges. Use only wire brushes or wheels provided with a M14 threaded hub.

CAUTION: Wear work gloves when handling wire brushes and wheels. *They can become sharp.*

CAUTION: *Wheel or brush must not touch guard when mounted or while in use. Undetectable damage could occur to the accessory, causing wires to fragment from accessory wheel or cup.*

1. Thread the wheel on the spindle by hand.
2. Depress spindle lock button and use a wrench on the hub of the wire wheel or brush to tighten the wheel.
3. To remove the wheel, reverse the above procedure.

NOTICE: *Failure to properly seat the wheel hub before turning the tool on may result in damage to tool or wheel.*

Fitting and Removing a Backing Pad/Sanding Sheet (fig. 1. 5)

1. Place the tool on a table or flat surface, with the guard facing up.
2. Remove the backing flange (d).
3. Place the rubber backing pad correctly onto the spindle (b).
4. Place the sanding sheet on the rubber backing pad.
5. While depressing spindle lock (a), thread clamp nut (l) on spindle, piloting the raised hub on the clamp nut into the centre of sanding disc and backing pad.
6. Tighten the threaded clamp nut (l) with the hex key provided or a two pin spanner.
7. Release the spindle lock.
8. To remove the rubber backing pad, loosen the threaded clamp nut (l) with the hex key provided or a two pin spanner.

Fitting a Wire Cup Brush

Screw the wire cup brush directly onto the spindle without the use of the spacer and threaded flange.

Prior to Operation

- Install the guard and appropriate disc or wheel. Do not use excessively worn discs or wheels.
- Be sure the inner and outer flange are mounted correctly. Follow the instructions given in the **Grinding and Cutting Accessory Chart**.
- Make sure the disc or wheel rotates in the direction of the arrows on the accessory and the tool.
- Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will normally break apart during this test time.

OPERATION

Instructions for Use

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

WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories. *Before reconnecting the tool, depress and release the trigger switch to ensure that the tool is off.*

WARNING:

- *Ensure all materials to be ground or cut are secured in place.*
- *Secure and support the workpiece. Use clamps or a vice to hold and support the workpiece to a stable platform. It is important to clamp and support the workpiece securely to prevent movement of the workpiece and loss of control. Movement of the workpiece or loss of control may create a hazard and cause personal injury.*
- ***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.*
- *Always wear regular working gloves while operating this tool.*
- *The gear becomes very hot during use.*
- *Apply only a gentle pressure to the tool. Do not exert side pressure on the disc.*

- *Always install the guard and appropriate disc or wheel. Do not use excessively worn disc or wheel.*
- *Be sure the inner and outer flange are mounted correctly.*
- *Make sure the disc or wheel rotates in the direction of the arrows on the accessory and the tool.*
- *Avoid overloading. Should the tool become hot, let it run a few minutes under no load condition to cool the accessory. Do not touch accessories before they have cooled. The discs become very hot during use.*
- *Never work with the grinding cup without a suitable protection guard in place.*
- *Do not use the power tool with a cut-off stand.*
- *Never use blotters together with bonded abrasive products.*
- *Be aware, the wheel continues to rotate after the tools is switched off.*

Proper Hand Position (fig. 6)

WARNING: *To reduce the risk of serious personal injury,* ***ALWAYS*** *use proper hand position as shown.*

WARNING: *To reduce the risk of serious personal injury,* ***ALWAYS*** *hold securely in anticipation of a sudden reaction.*

Proper hand position requires one hand on the side handle (c), with the other hand on the body of the tool, as shown in Figure 6.

Switches

CAUTION: *Hold the side handle and body of the tool firmly to maintain control of the tool at start up and during use and until the wheel or accessory stops rotating. Make sure the wheel has come to a complete stop before laying the tool down.*

NOTE: To reduce unexpected tool movement, do not switch the tool on or off while under load conditions. Allow the grinder to run up to full speed before touching the work surface. Lift the tool from the surface before turning the tool off. Allow the tool to stop rotating before putting it down.

SLIDER SWITCH (FIG. 1)
(DWE8300. DWE8310)

WARNING: *Before connecting the tool to a power supply, be sure the slider switch is in the off position by pressing the rear part of the switch and releasing. Ensure the slider switch is in the off position as described above after any interruption in power supply to the tool, such as the activation of a ground fault interrupter, throwing of a circuit breaker, accidental unplugging, or power failure. If the slider switch is locked on when the power is connected, the tool will start unexpectedly.*

To start the tool, slide the ON/OFF slider switch (g) toward the front of the tool. To stop the tool, release the ON/OFF slider switch.
For continuous operation, slide the switch toward the front of the tool and press the forward part of the switch inward. To stop the tool while operating in continuous mode, press the rear part of the slider switch and release.

Spindle Lock (fig. 1)

The spindle lock (a) is provided to prevent the spindle from rotating when installing or removing wheels. Operate the spindle lock only when the tool is turned off, unplugged from the power supply, and has come to a complete stop.

NOTICE: *To reduce the risk of damage to the tool, do not engage the spindle lock while the tool is operating. Damage to the tool will result and attached accessory may spin off possibly resulting in injury.*

To engage the lock, depress the spindle lock button and rotate the spindle until you are unable to rotate the spindle further.

Using Depressed Centre Grinding Wheels

SURFACE GRINDING WITH GRINDING WHEELS

1. Allow the tool to reach full speed before touching the tool to the work surface.
2. Apply minimum pressure to the work surface, allowing the tool to operate at high speed. Grinding rate is greatest when the tool operates at high speed.
3. Maintain a 20° to 30° angle between the tool and work surface.

4. Continuously move the tool in a forward and back motion to avoid creating gouges in the work surface.
5. Remove the tool from work surface before turning tool off. Allow the tool to stop rotating before laying it down.

EDGE GRINDING WITH GRINDING WHEELS

WARNING: *Wheels used for cutting and edge grinding may break or kickback if they bend or twist while the tool is being used to do cut-off work or deep grinding. To reduce the risk of serious injury, limit the use of these wheels with guard to shallow cutting and notching (less than 13 mm [1/2"] in depth). The open side of the guard must be positioned away from the operator.*

1. Allow the tool to reach full speed before touching the tool to the work surface.
2. Apply minimum pressure to the work surface, allowing the tool to operate at high speed. Grinding rate is greatest when the tool operates at high speed.
3. Position yourself so that the open-underside of the wheel is facing away from you.
4. Once a cut is begun and a notch is established in the workpiece, do not change the angle of the cut. Changing the angle will cause the wheel to bend and may cause wheel breakage. Edge grinding wheels are not designed to withstand side pressures caused by bending.
5. Remove the tool from the work surface before turning the tool off. Allow the tool to stop rotating before laying it down.

WARNING: *Do not use edge grinding/ cutting wheels for surface grinding applications because these wheels are not designed for side pressures encountered with surface grinding. Wheel breakage and serious personal injury may result.*

Mounting and Using Wire Brushes and Wire Wheels

Wire wheels and brushes can be used for removing rust, scale and paint, and for smoothing irregular surfaces.

NOTE: Please refer to ***Precautions To Take When Wire Brushing Paint***.

1. Allow the tool to reach full speed before touching the tool to the work surface.
2. Apply minimum pressure to work surface, allowing the tool to operate at high speed. Material removal rate is greatest when the tool operates at high speed.
3. Maintain a 5° to 10° angle between the tool and work surface for wire cup brushes.
4. Maintain contact between the edge of the wheel and the work surface with wire wheels.
5. Continuously move the tool in a forward and back motion to avoid creating gouges in the work surface. Allowing the tool to rest on the work surface without moving, or moving the tool in a circular motion causes burning and swirling marks on the work surface.
6. Remove the tool from the work surface before turning the tool off. Allow the tool to stop rotating before setting it down.

CAUTION: *Use extra care when working over an edge, as a sudden sharp movement of grinder may be experienced.*

Using Cutting (Type 1) Wheels

WARNING: *Do not use edge grinding/ 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.*

1. Allow tool to reach full speed before touching tool to work surface.
2. Apply minimum pressure to work surface, allowing tool to operate at high speed. Cutting rate is greatest when the tool operates at high speed.
3. Once a cut is begun and a notch is established in the workpiece, do not change the angle of the cut. Changing the angle will cause the wheel to bend and may cause wheel breakage.
4. Remove the tool from work surface before turning tool off. Allow the tool to stop rotating before setting it down.

Precautions To Take When Wire Brushing Paint

1. Wire brushing of lead based paint is NOT RECOMMENDED due to the difficulty of controlling the contaminated dust. The greatest danger of lead poisoning is to children and pregnant women.

2. Since it is difficult to identify whether or not a paint contains lead without a chemical analysis, we recommend the following precautions when wire brushing any paint:

PERSONAL SAFETY

1. No children or pregnant women should enter the work area where the paint removal is being done until all clean up is completed.
2. A dust mask or respirator should be worn by all persons entering the work area. The filter should be replaced daily or whenever the wearer has difficulty breathing.

   NOTE: Only those dust masks suitable for working with lead paint dust and fumes should be used. Ordinary painting masks do not offer this protection. See your local hardware dealer for the proper respiratory protection.
3. NO EATING, DRINKING or SMOKING should be done in the work area to prevent ingesting contaminated paint particles. Workers should wash and clean up BEFORE eating, drinking or smoking. Articles of food, drink, or smoking should not be left in the work area where dust would settle on them.

ENVIRONMENTAL SAFETY

1. Paint should be removed in such a manner as to minimize the amount of dust generated.
2. Areas where paint removal is occurring should be sealed with plastic sheeting of 4 mils thickness.
3. Wire brushing should be done in a manner to reduce tracking of paint dust outside the work area.

CLEANING AND DISPOSAL

1. All surfaces in the work area should be vacuumed and thoroughly cleaned daily for the duration of the wire brushing project. Vacuum filter bags should be changed frequently.
2. Plastic drop cloths should be gathered up and disposed of along with any dust chips or other removal debris. They should be placed in sealed refuse receptacles and disposed of through regular trash pick-up procedures.

   During clean up, children and pregnant women should be kept away from the immediate work area.
3. All toys, washable furniture and utensils used by children should be washed thoroughly before being used again.

Metal Applications

When using the tool in metal applications, make sure that a residual current device (RCD) has been inserted to avoid residual risks caused by metal swarf.

If the power supply is shut off by the RCD, take the tool to an authorised DEWALT repair agent.

WARNING: *In extreme working conditions, conductive dust can accumulate inside the machine housing when working with metal. This can result in the protective insulation in the machine becoming degraded with a potential risk of an electrical shock.*

To avoid build-up of metal swarf inside the machine, we recommend to clear the ventilation slots on a daily basis. Refer to ***Maintenance***.

Cutting Metal

When cutting, work with moderate feed, adapted to the material being cut. Do not exert pressure onto the cutting disc, tilt or oscillate the machine.

Do not reduce the speed of running down cutting discs by applying sideward pressure.

The machine must always work in an upgrinding motion. Otherwise, the danger exists of it being pushed uncontrolled out of the cut.

When cutting profiles and square bar, it is best to start at the smallest cross section.

Rough Grinding

Never use a cutting disc for roughing. Always use the guard type 27.

The best roughing results are achieved when setting the machine at an angle of 30° to 40°. Move the machine back and forth with moderate pressure. In this manner, the workpiece will not become too hot, does not discolour and no grooves are formed.

Cutting Stone

The machine shall be used only for dry cutting. For cutting stone, it is best to use a diamond cutting disc. Operate the machine only with additional dust protection mask.

Working Advice

Exercise caution when cutting slots in structural walls. Slots in structural walls are subject to the country-specific regulations. These regulations are to be observed under all circumstances. Before beginning work, consult the responsible structural engineer, architect or the construction supervisor.

Using Flap Discs

WARNING: Metal dust build-up. *Extensive use of flap discs in metal applications can result in the increased potential for electric shock. To reduce this risk, insert an RCD before use and clean the ventilation slots daily by blowing dry compressed air into the ventilation slots inaccordance with the below maintenance instructions.*

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 serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories. *Before reconnecting the tool, depress and release the trigger switch to ensure that the tool is off.*

Pop-off Brushes

The motor will be automatically shut off indicating that the carbon brushes are nearly worn out and that the tool needs servicing. The carbon brushes are not user-serviceable. Take the tool to an authorised DEWALT repair agent.

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.*

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**.