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1-800-4-DEWALT • www.dewalt.com

**INSTRUCTION MANUAL
GUIDE D'UTILISATION
MANUAL DE INSTRUCCIONES**

INSTRUCTIVO DE OPERACIÓN, CENTROS DE SERVICIO Y PÓLIZA
DE GARANTÍA. **ADVERTENCIA:** LEASE ESTE INSTRUCTIVO
ANTES DE USAR EL PRODUCTO.



**D28065, D28065N, D28115, D28115N
Heavy-Duty Angle Grinders
Meuleuses à renvoi d'angle de type industriel
Esmeriladoras de ángulo para trabajo pesado**

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

General Safety Rules – For All Tools

⚠️ WARNING! Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

WORK AREA

- **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
- **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

- **Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances.** Never remove the grounding prong or modify the plug in any way. **Do not use any adaptor plugs.** Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user. **Applicable only to Class I (grounded) tools.**
- **Double insulated tools are equipped with a polarized plug (one blade is wider than the other.) This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not**

change the plug in any way. Double insulation eliminates the need for the three wire grounded power cord and grounded power supply system. **Applicable only to Class II (double insulated) tools.**

- **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
- **Don't expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord to carry the heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.
- **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W."** These cords are rated for outdoor use and reduce the risk of electric shock. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The following table shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Minimum Gauge for Cord Sets

Volts	Total Length of Cord in Feet	Minimum Gauge for Cord Sets
120V	0-25	51-100
240V	0-50	101-150
		161-200
		201-300
Ampere Rating	More Than	Not more Than
		AWG
0 - 6	18	16
6 - 10	18	16
10 - 12	16	16
12 - 16	14	12
		Not Recommended

English

PERSONAL SAFETY

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothing, jewelry, or long hair can be caught in moving parts. Air vents often cover moving parts and should also be avoided.
- **Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
- **Remove adjusting keys or wrenches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- **Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

TOOL USE AND CARE

- **Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
- **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
- **Do not use tool if switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.

- **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventative safety measures reduce the risk of starting the tool accidentally.
- **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
- **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
- **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool, may become hazardous when used on another tool.

SERVICE

- **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
- **When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

Additional Specific Safety Instructions for Grinders

- Check that the grinding wheel backing flange has a yellow rubber ring (F) installed, see Figure 1. Replace rubber ring if missing, damaged or worn. See page 11 for details regarding proper accessory installation.

- ⚠ WARNING: The grinding wheel or accessory may loosen during coast-down of the tool when shut off if rubber ring is missing or damaged.** If grinding wheel or accessory loosens, it may dismount from the machine and may cause serious personal injury.

 - Always use proper guard with grinding wheel.** A guard protects operator from broken wheel fragments and wheel contact.
 - Accessories must be rated for at least the speed recommended on the tool warning label.** Wheels and other accessories running over rated speed can fly apart and cause injury. Accessory ratings must be above listed minimum wheel speed as shown on tool nameplate.
 - Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
 - Do not use Type 11 (flaring cup) wheels on this tool.** Using inappropriate accessories can result in injury.
 - ALWAYS WEAR EYE PROTECTION WHEN USING THIS TOOL.**
 - Use of accessories not specified in this manual is not recommended and may be hazardous.** Use of power boosters that would cause the tool to be driven at speeds greater than its rated speed constitutes misuse.
 - Do not use circular saw blades or any other toothed blades with this tool.** Serious injury may result.
 - When starting the tool with a new or replacement wheel, or a new or replacement wire brush installed, hold the tool in a well protected area and let it run for one minute.** If the wheel has an undetected crack or flaw, it should burst in less than one minute. If the wire brush has loose wires, they will be detected. Never start the tool with a person in line with the wheel. This includes the operator.

- Avoid bouncing the wheel or giving it rough treatment.** If this occurs, stop the tool and inspect the wheel for cracks or flaws.
- Direct sparks away from operator, bystanders or flammable materials.** Sparks may be produced while cutting and/or grinding. Sparks may cause burns or start fires.
- Always use side handle. Tighten the handle securely.** The side handle should always be used to maintain control of the tool at all times.
- Never cut into area that may contain electrical wiring or piping.** Serious injury may result.
- Clean out your tool often, especially after heavy use.** Dust and grit containing metal particles often accumulate on interior surfaces and could create an electric shock hazard.
- Do not operate this tool for long periods of time.** Vibration caused by the operating action of this tool may cause permanent injury to fingers, hands, and arms. Use gloves to provide extra cushion, take frequent rest periods, and limit daily time of use.
- Direct the Dust Ejection System™ away from operator and coworkers.** Serious injury may result (Fig. 1, K).
- The label on your tool may include the following symbols. The symbols and their definitions are as follows:

V.....	volts	A.....	amperes
HZ.....	hertz	W.....	watts
min.....	minutes	~	alternating current
⎓.....	direct current	n ₀	no load speed
Ⓛ.....	Class I Construction (grounded)	Ⓧ.....	earthing terminal
Ⓜ.....	Class II Construction (double insulated)	⚡.....	safety alert symbol
BPM.....	beats per minute/min....	revolutions or reciprocation per minute

Causes and Operator Prevention of Kickback

- Kickback is a sudden reaction to a pinched, bound or misaligned wheel, wire brush or flap disc causing an uncontrolled cut-off tool to lift up and out of the workpiece toward the operator.
 - When the wheel is pinched or bound tightly by the workpiece, the wheel stalls and the motor reaction drives the unit rapidly back toward or away from the operator.
 - 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:
 - **Maintain a firm grip with both hands on the unit and position your body and arm to allow you to resist kickback forces.** Kickback forces can be controlled by the operator, if proper precautions are taken.
 - **When wheel is binding, or when interrupting a cut for any reason, release the trigger and hold the unit motionless in the material until the wheel comes to a complete stop. Never attempt to remove the wheel from the work or pull the unit backward while the wheel is in motion or kickback may occur.** Investigate and take corrective actions to eliminate the cause of wheel binding.
 - **When restarting a cut-off accessory in the workpiece, check that the wheel is not engaged into the material.** If wheel is binding, it may walk up or kickback from the workpiece as the tool is restarted.
 - **Support large panels to minimize the risk of wheel pinching and kickback.** Large panels tend to sag under their own weight. Support must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- ⚠ **WARNING: ALWAYS** use safety glasses. Everyday eyeglasses are NOT safety glasses. Also use face or dust mask if cutting operation is dusty. ALWAYS WEAR CERTIFIED SAFETY EQUIPMENT.

- ANSI Z87.1 eye protection (CAN/CSA Z94.3),
 - ANSI S12.6 (S3.19) hearing protection,
 - NIOSH/OSHA/MSHA respiratory protection.
- ⚠ **WARNING: Always wear proper personal hearing protection that conforms to ANSI S12.6 (S3.19) during use.** Under some conditions and duration of use, noise from this product may contribute to hearing loss.
- ⚠ **WARNING: Always use eye protection.** All users and bystanders must wear eye protection that conforms to ANSI Z87.1.
- ⚠ **WARNING:** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:
- lead from lead-based paints,
 - crystalline silica from bricks and cement and other masonry products, and
 - arsenic and chromium from chemically-treated lumber (CCA).
- Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.
- **Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water.** 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.

⚠ CAUTION: Use extra care when working into a corner because a sudden, sharp movement of the grinder may be experienced when the wheel or other accessory contacts a secondary surface or a surface edge.

COMPONENTS (Fig. 1)

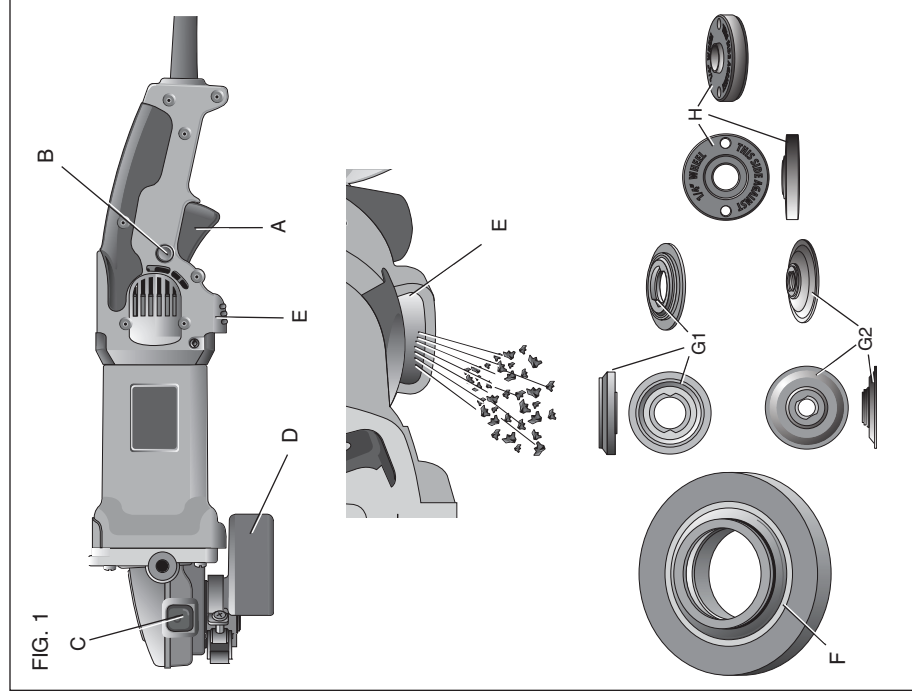
⚠ WARNING: Never modify the power tool or any part of it. Damage or personal injury could result.

- A. Trigger Switch
- B. Lock On Button (D28065, D28115 only)
- C. Spindle Lock Button
- D. Type 27 Guard
- E. Dust Ejection System™
- F. Yellow Rubber Ring
- G1. Quick-Change Backing Flange
- G2. Stamped Steel Quick-Change Backing Flange (D28065, D28065N only)
- H. Threaded Clamp Nut
- I. Anti-Vibration Side Handle (not shown)

INTENDED USE

The D28065, D26065N, D28115, D28115N heavy-duty angle grinders have been designed for professional grinding at various work sites (i.e., construction sites). **DO NOT** use under wet conditions or in presence of flammable liquids or gases.

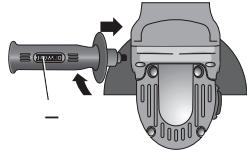
These heavy-duty angle grinders are professional power tools. **DO NOT** let children come into contact with the tool. Supervision is required when inexperienced operators use this tool.



ASSEMBLY AND ADJUSTMENTS

ATTACHING SIDE HANDLE

The side handle (I) can be fitted to either side of the gear case in the threaded holes, as shown. Before using the tool, check that the handle is tightened securely. Use a wrench to firmly tighten the side handle.



Rotating the Gear Case

⚠ 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.

1. Remove guard and flanges from tool.
2. Remove the four corner screws attaching the gear case to motor housing.
3. Separating the gear case from motor housing not more than 1/4" (6.35 mm), rotate the gear case head to desired position.

NOTE: If the gear case and motor housing become separated by more than 1/4" (6.35 mm), the tool must be serviced and re-assembled by a DEWALT service center. Failure to have the tool serviced may cause brush, motor and bearing failure.
4. Re-install screws to attach the gear case to the motor housing. Tighten screws to 18 in./lbs. (2.03 Nm) torque. Overtightening could cause screws to strip.
5. Re-install guard and correct flanges for the appropriate accessories.

Accessories

It is important to choose the correct guards, backing pads and flanges to use with grinder accessories. See pages 7–9 for information on choosing the correct accessories.

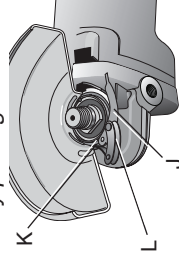
⚠ WARNING: Accessories must be rated for at least the speed recommended on the tool warning label. Wheels and other accessories running over rated accessory speed may burst and cause injury. Threaded accessories must have a 5/8"-11 hub. Every unthreaded accessory must have a 7/8" (22.2 mm) arbor hole. If it does not, it may have been designed for a circular saw and should not be used. Use only the accessories shown on pages 7–9 of this manual. Accessory ratings must be above listed minimum wheel speed as shown on tool nameplate.

Mounting Guard

MOUNTING AND REMOVING GUARD

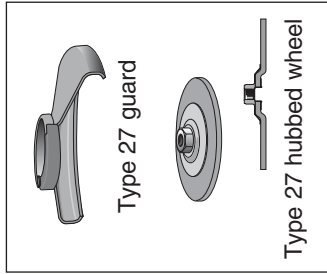
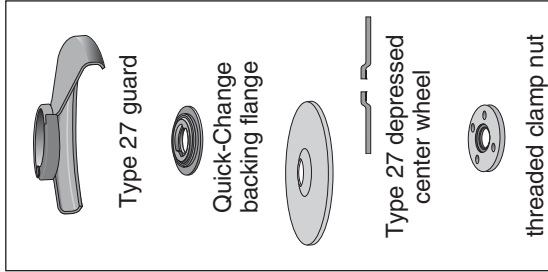
⚠ WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories. Before reconnecting the tool, depress and release the trigger switch to ensure that the tool is off.

⚠ CAUTION: Guards must be used with all grinding wheels, sanding flap discs, wire brushes, and wire wheels. The tool may be used without a guard only when sanding with conventional sanding discs. Some DEWALT models are provided with a guard intended for use with depressed center wheels (Type 27) and hubbed grinding wheels (Type 27). The same guard is designed for use with sanding flap discs (Type 27 and 29) and wire brushes. Grinding and cutting with wheels other than Type 27 and 29 require different accessory guards not included with tool. Mounting instructions for these accessory guards are included in the accessory package.

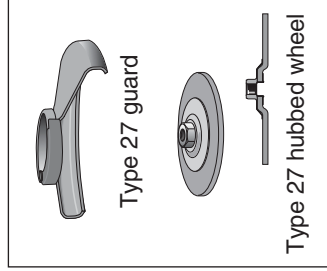
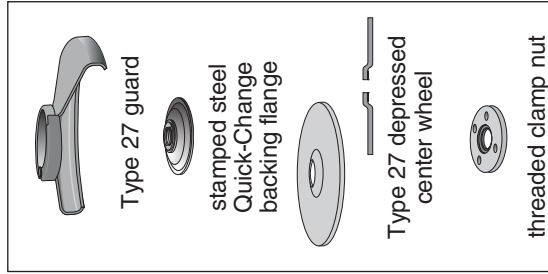


1. Open the guard latch (J). Align the lugs (K) on the guard with the slots (L) on the gear case.
2. Push the guard down until the guard lugs engage and rotate freely in the groove on the gear case hub.

4-1/2" and 5" Grinding Wheels

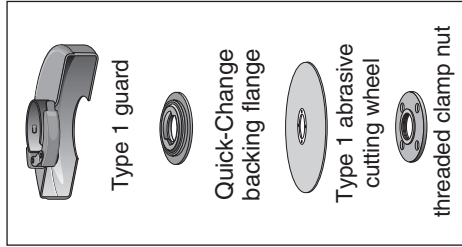
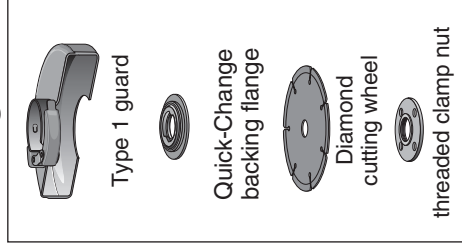
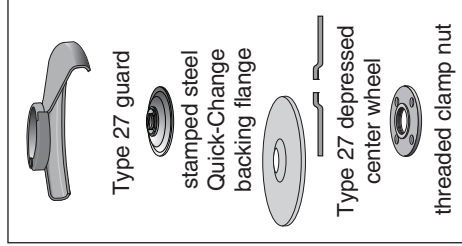


6" Grinding Wheels

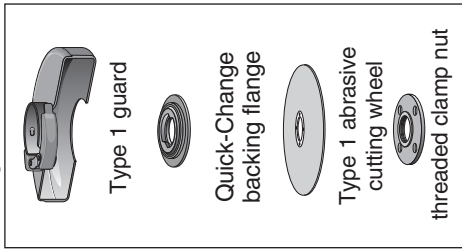
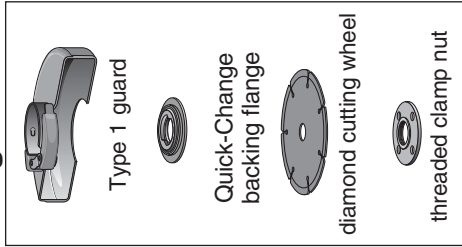


English

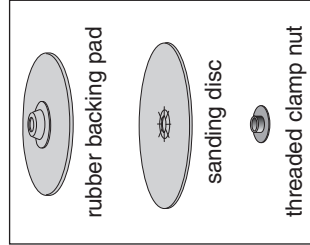
6" Cutting Wheels



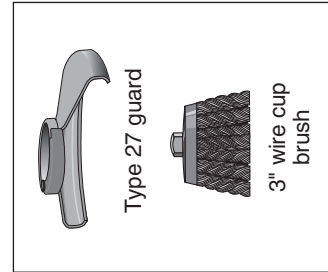
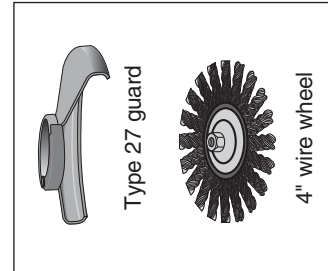
4-1/2" and 5" Cutting Wheels



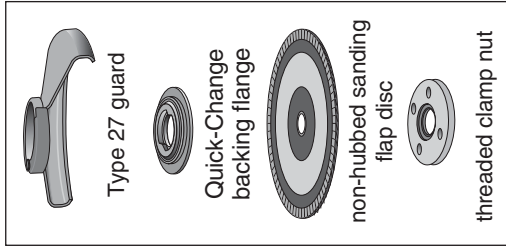
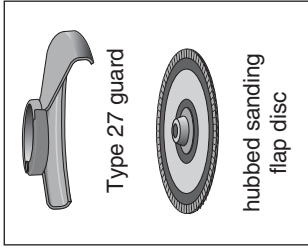
Sanding Discs



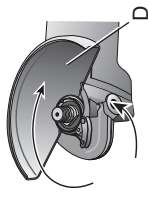
Wire Wheels



4-1/2" and 5" Sanding Flap Discs

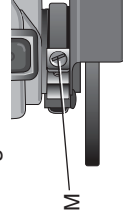


3. With the guard latch open, rotate the guard (D) into the desired working position. The guard body should be positioned between the spindle and the operator to provide maximum operator protection.



4. Close the guard latch to secure the guard on the gear case. You should not be able to rotate the guard by hand when the latch is closed. Do not operate the grinder with a loose guard or the clamp lever in open position.

5. To remove the guard, open the guard latch, rotate the guard so that the arrows are aligned and pull up on the guard.



NOTE: The guard is pre-adjusted to the diameter of the gear case hub at the factory. If, after a period of time, the guard becomes loose, tighten the adjusting screw (M) with clamp lever in the closed position.

⚠ CAUTION: Do not tighten the adjusting screw with the clamp lever in open position. Undetectable damage to the guard or the mounting hub may result.

⚠ CAUTION: If guard cannot be tightened by adjusting clamp, do not use tool and take the tool and guard to a service center to repair or replace the guard.

OPERATION

⚠ 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.

Guards and Flanges

It is important to choose the correct guards and flanges to use with the grinder accessories. See pages 7–9 for the correct accessories.

NOTE: Edge grinding and cutting can be performed with Type 27 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. Every unthreaded accessory must have a 7/8" (22.2 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 on pages 7–9. Accessory ratings must be above listed minimum wheel speed as shown on tool nameplate.

Trigger Switch

▲ 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.

▲ CAUTION: Before connecting the tool to a power source depress and release the trigger switch (A) once without depressing the lock-on button (Fig. 1, B) to ensure that the switch is off. Depress and release the trigger switch 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.

English

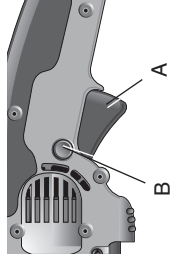
To turn the tool on, depress the trigger switch (A). The tool will run while the switch is depressed. Turn the tool off by releasing the trigger switch.

LOCK-ON BUTTON (D28065, D28115)

The lock-on button (B) offers increased comfort in extended use applications.

To lock the tool on, depress the trigger switch (A), then push the lock-on button (B). The tool will continue to run after the trigger switch is released. To unlock the tool, depress and release the trigger switch. This will cause the tool to stop.

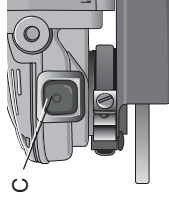
▲ CAUTION: Allow the tool to reach full speed before touching tool to the work surface. Lift the tool from the work surface before turning the tool off.



SPINDLE LOCK

The spindle lock (C) 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. Do not engage the spindle lock while the tool is operating because damage to the tool will result. To engage the lock, depress the spindle lock button and rotate the spindle until you are unable to rotate the spindle further.



Mounting and Using Depressed Center Grinding Wheels and Sanding Flap Discs

MOUNTING AND REMOVING HUBBED WHEELS

⚠ 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.

Hubbed wheels install directly on the 5/8"-11 threaded spindle. Thread of accessory must match thread of spindle.

1. Backing flange is retained to the grinder by an O-ring on the spindle. Remove backing flange by pulling and twisting flange away from the machine.
2. Thread the wheel on the spindle by hand.
3. Depress the spindle lock button and use a wrench to tighten the hub of the wheel.
4. Reverse the above procedure to remove the wheel.

⚠ CAUTION: Failure to properly seat the wheel before turning the tool on may result in damage to the tool or the wheel.

MOUNTING NON-HUBBED WHEELS

⚠ 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.

Depressed center Type 27 grinding wheels must be used with included flanges.

NOTE: The stamped steel quick-change backing flange (G2) is for use with D28065

and D28065N for Type 27 grinding wheels only. Refer to pages 7-9 for more information.

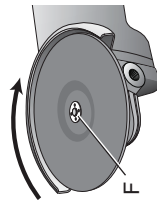
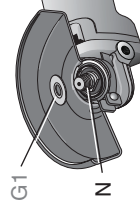
1. Install the stamped steel quick-change backing flange (G2) (D28065, D28065N only) for Type 27 6" wheels or the quick-change backing flange (G1) for all other non-hubbed wheels on spindle (N) with the raised section (pilot) against the wheel. Be sure the backing flange recess is seated onto the flats of the spindle by pushing and twisting the flange before placing wheel.

2. Place wheel against the backing flange, centering the wheel on the raised section (pilot) of the backing flange.

3. While depressing the spindle lock button, thread the clamp nut (H) on spindle. If the wheel you are installing is more than 1/8" (3.17 mm) thick, place the threaded clamp nut on the spindle so that the raised section (pilot) fits into the center of the wheel. If the wheel you are installing is 1/8" (3.17 mm) thick or less, place the threaded clamp nut on the spindle so that the raised section (pilot) is not against the wheel.

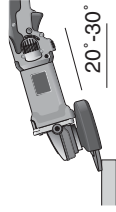


NOTE: If the wheel spins after the clamp nut is tightened, check the orientation of the threaded clamp nut. If a thin wheel is installed with the pilot on the clamp nut against the wheel, it will spin because the height of the pilot prevents the clamp nut from holding the wheel.



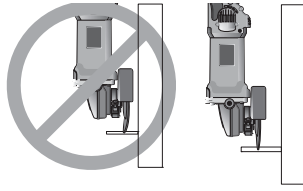
SURFACE GRINDING WITH GRINDING WHEELS

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

⚠ CAUTION: Wheels used for cutting and edge grinding may break 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 a standard Type 27 guard to shallow cutting and notching [less than 1/2" (12.7 mm) in depth]. The open side of the guard must be positioned away from the operator. For deeper cutting with a Type 1 cut-off wheel, use a closed, Type 1 guard. See the chart on page 8 for more information. Type 1 guards are available at extra cost from your local dealer or authorized service center.



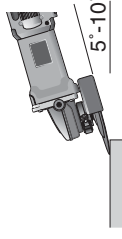
1. Allow the tool to reach full speed before touching the tool to the work surface.
2. Apply minimum pressure to the work surface, allowing the tool to operate at high speed. Grinding rate is greatest when the tool operates at high speed.

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 injury may result.

SURFACE FINISHING WITH SANDING FLAP DISCS

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. Sanding rate is greatest when the tool operates at high speed.
3. Maintain a 5° to 10° angle between the tool and work surface.
4. Continuously move the tool in a forward and backward 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.

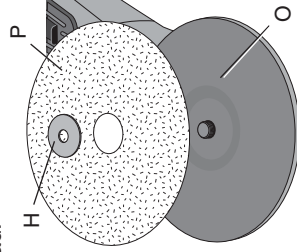


MOUNTING SANDING BACKING PADS

⚠ 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: Proper guard must be reinstalled for grinding wheel, sanding flap disc, wire brush or wire wheel applications after sanding applications are complete.

1. Place or appropriately thread backing pad (O) on the spindle.
2. Place the sanding disc (P) on the backing pad.
3. While depressing spindle lock, thread clamp nut (H) on spindle, piloting the raised hub on the clamp nut into the center of sanding disc and backing pad.
4. Tighten the clamp nut by hand. Then depress the spindle lock button while turning the sanding disc until the sanding disc and clamp nut are snug.
5. To remove the wheel, grasp and turn the backing pad and sanding pad while depressing the spindle lock button.



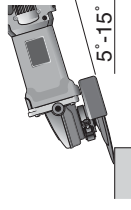
USING SANDING BACKING PADS

Choose the proper grit sandpaper for your application. Sandpaper is available in various grits. Coarse grits yield faster material removal rates and a rougher finish. Finer grits yield slower material removal and a smoother finish. Begin with coarse grit discs for fast, rough material removal. Move to a medium grit paper and finish with a fine grit disc for optimal finish.

- | | |
|---------------------|----------------|
| Coarse | 16 - 30 grit |
| Medium | 36 - 80 grit |
| Fine Finishing | 100 - 120 grit |
| Very Fine Finishing | 150 - 180 grit |
1. Allow the tool to reach full speed before touching tool to the work surface.

2. Apply minimum pressure to work surface, allowing the tool to operate at high speed. Sanding rate is greatest when the tool operates at high speed.

3. Maintain a 5° to 15° angle between the tool and work surface. The sanding disc should contact approximately one inch of work surface.



4. Move the tool constantly in a straight line to prevent burning and swirling of 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.
5. Remove the tool from work surface before turning tool off. Allow the tool to stop rotating before laying it down.

Mounting and Using 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 5/8"-11 threaded hub. A Type 27 guard is required when using wire brushes and wheels.

▲ 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.

MOUNTING WIRE BRUSHES AND WIRE WHEELS

▲ 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.

Mounting and Using Cutting (Type 1) Wheels

Cutting wheels include diamond wheels and abrasive discs. Abrasive cutting wheels for metal and concrete use are available. Diamond blades for concrete cutting can also be used.

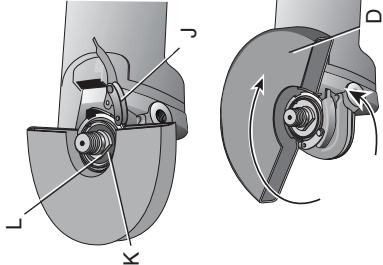
NOTE: All grinders that use Type 1 wheels use the quick-change backing flange (G1).

⚠ WARNING: A closed, 2-sided cutting wheel guard is not included with this tool and is required when using cutting wheels. Failure to use proper flange and guard can result in injury resulting from wheel breakage and wheel contact. See page 8 for more information.

MOUNTING CLOSED (TYPE 1) GUARD

⚠ 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.

1. Open the guard latch (J). Align the lugs (K) on the guard with the slots (L) on the gear case.
2. Push the guard down until the guard lug engages and rotates freely in the groove on the gear case hub.
3. Rotate guard (D) into desired working position. The guard body should be positioned between the spindle and the operator to provide maximum operator protection.
4. Close the guard latch to secure the guard on the gear case cover. You should be unable to rotate the



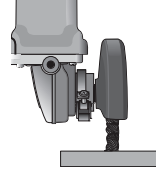
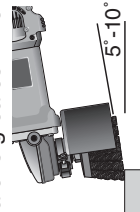
1. Thread the wheel on the spindle by hand.
2. Depress spindle lock button and use a wrench on the hub of the wire wheel or brush to tighten the wheel.
3. To remove the wheel, reverse the above procedure.

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

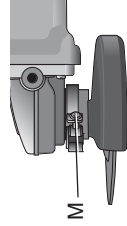
USING WIRE CUP BRUSHES AND WIRE WHEELS

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

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 backward 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.



- To remove the wheel, grasp and turn while depressing the spindle lock button.

USING CUTTING 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.

- Allow tool to reach full speed before touching tool to work surface.
- Apply minimum pressure to work surface, allowing tool to operate at high speed. Cutting rate is greatest when the tool operates at high speed.
- 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.
- Remove the tool from work surface before turning tool off. Allow the tool to stop rotating before setting it down.

MAINTENANCE

⚠ 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.

Cleaning

⚠ WARNING: Blowing dust and grit out of motor and switch actuator using clean, dry compressed air is a necessary regular maintenance procedure. Dust and grit containing metal particles often accumulate on interior surfaces and could create an electrical shock or electrocution if not frequently cleaned out. It is recommended that a ground fault circuit interrupter (GFCI) is utilized to further protect the user from electric shock resulting from the accumulation of conductive particles. If the tool is deactivated by the GFCI, unplug the tool and

guard by hand when the latch is in closed position. If rotation is possible, tighten the adjusting screw (M) with clamp lever in the closed position. Do not operate grinder with a loose guard or clamp lever in open position.

- To remove the guard, open the guard latch, rotate the guard so that the arrows are aligned and pull up on the guard.

NOTE: If, after a period of time, the guard becomes loose, tighten the adjusting screw (M) with the clamp lever in the closed position.

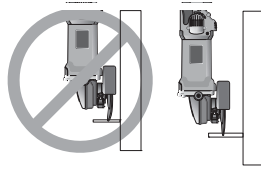
⚠ CAUTION: Do not tighten adjusting screw with clamp lever in open position. Undetectable damage to guard or mounting hub may result.

MOUNTING CUTTING WHEELS

⚠ CAUTION: Turn off and unplug the tool before making any adjustments or removing or installing attachments or accessories. Before reconnecting the tool, turn the switch on and off as previously described to ensure that the tool is off.

⚠ CAUTION: Matching diameter backing flange and threaded clamp nut (included with tool) must be used for cutting wheels.

- Place the unthreaded backing flange on spindle with the raised section (pilot) facing up. The raised section (pilot) on the backing flange will be against the wheel when the wheel is installed.
- Place the wheel on the quick-change backing flange, centering the wheel on the raised section (pilot).
- Install the threaded clamp nut with the raised section (pilot) facing away from the wheel.
- Depress the spindle lock button and tighten clamp nut with a wrench.



check and clean the tool before resetting the GFCI. **ALWAYS WEAR SAFETY GLASSES when cleaning or using this tool.**
⚠ CAUTION: Never use solvents or other harsh chemicals for cleaning the non-metallic parts of the tool. Use a clean, dry cloth only.

Lubrication

DEWALT tools are properly lubricated at the factory and are ready for use.

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.

Repairs

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustments should be performed by a DEWALT factory service center, a DEWALT authorized service center or other qualified service personnel. Always use identical replacement parts. Recommended accessories for use with your tool are available at extra cost from your local dealer or authorized service center. If you need assistance in locating any accessory, please contact DEWALT Industrial Tool Co., 701 East Joppa Road, Baltimore, MD 21286, call 1-800-4-DEWALT (1-800-433-9258) or visit our website www.dewalt.com.

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. This warranty does not cover part failure due to normal wear or tool abuse. For further detail of warranty coverage and warranty repair information, visit www.dewalt.com or call 1-800-4-DEWALT (1-800-433-9258). This warranty does not apply to accessories or

English

damage caused where repairs have been made or attempted by others. This warranty gives you specific legal rights and you may have other rights which vary in certain states or provinces.

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

1 YEAR FREE SERVICE

DEWALT will maintain the tool and replace worn parts caused by normal use, for free, any time during the first year after purchase.

90 DAY MONEY BACK GUARANTEE

If you are not completely satisfied with the performance of your DEWALT Power Tool, Laser, or Nailer for any reason, you can return it within 90 days from the date of purchase with a receipt for a full refund – no questions asked.

LATIN AMERICA: This warranty does not apply to products sold in Latin America. For products sold in Latin America, see country specific warranty information contained either in the packaging, call the local company or see website for warranty information.

FREE WARNING LABEL REPLACEMENT: If your warning labels become illegible or are missing, call 1-800-4-DEWALT for a free replacement.

