

DEWALT®

XR LI-ION

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DCD200

Fig. A

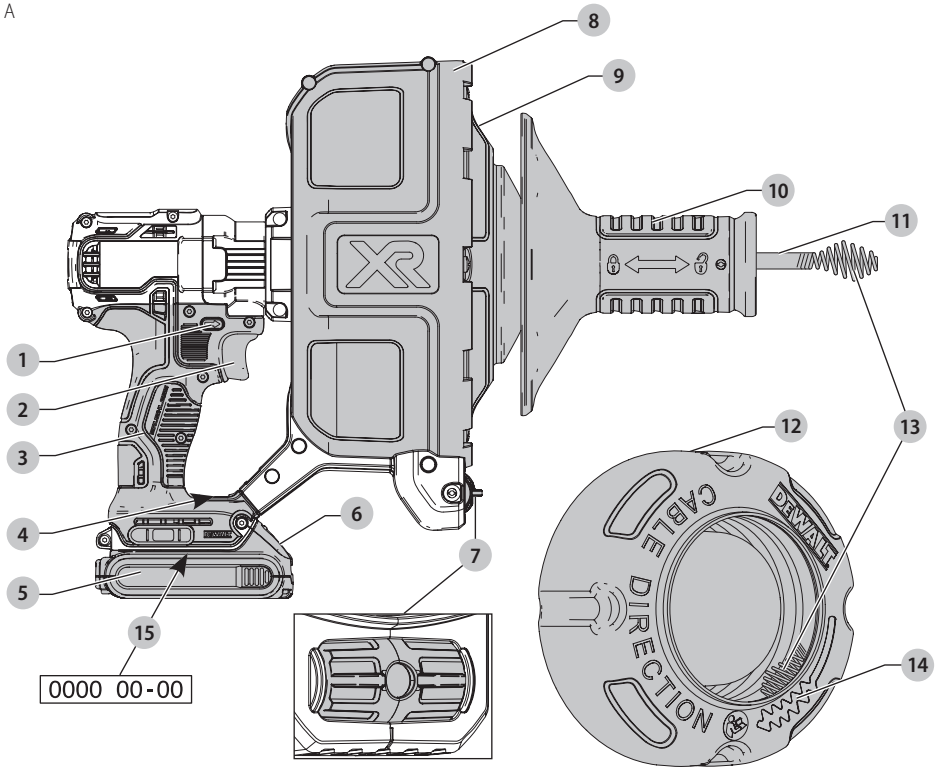


Fig. B

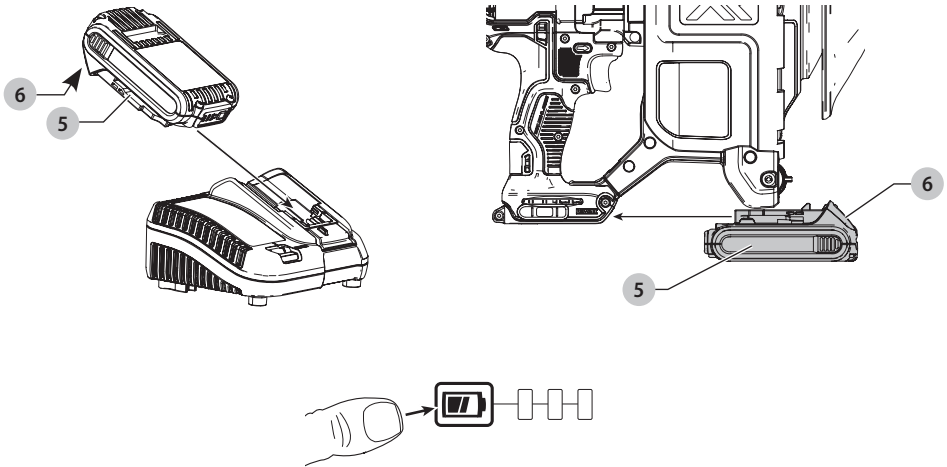


Fig. D

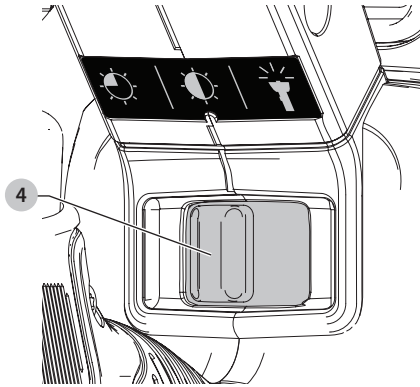
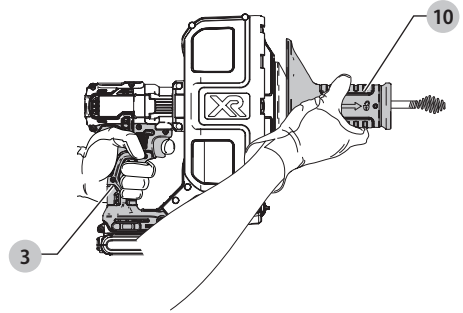


Fig. E



DRAIN CLEANER

DCD200

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

		DCD200
Voltage	V_{DC}	18
Type		1
Battery type		Li-Ion
No load speed	min^{-1}	0–620
Pipe size minimum	mm	20
Pipe size maximum	mm	76
Drain cleaner cable length max.	m	10,6
Weight (without battery pack)	kg	5,34

Noise values and vibration values (triax vector sum) according to EN60745-2-21:

L_{PA} (emission sound pressure level)	dB(A)	80
L_{WA} (sound power level)	dB(A)	91
K (uncertainty for the given sound level)	dB(A)	3
Vibration emission value a_{H1} =	m/s^2	7,2
Uncertainty K =	m/s^2	1,5

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN60745 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure.



WARNING: The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

EC-Declaration of Conformity

Machinery Directive



Drain Cleaner DCD200

DeWALT declares that these products described under

Technical Data are in compliance with:

2006/42/EC, EN60745-1:2009+A11:2010, EN60745-2-21:2009+A1:2010.

These products also comply with Directive 2014/30/EU and 2011/65/EU. For more information, please contact DeWALT at the following address or refer to the back of the manual.

The undersigned is responsible for compilation of the technical file and makes this declaration on behalf of DeWALT.

Markus Rompel
Director Engineering
DeWALT, Richard-Klinger-Straße 11,
D-65510, Idstein, Germany
26.04.2017



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

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.

Batteries				Chargers/Charge Times (Minutes)					
Cat #	V _{oc}	Ah	Weight (kg)	DCB107	DCB113	DCB115	DCB118	DCB132	DCB119
DCB546	18/54	6.0/2.0	1.05	270	140	90	60	90	X
DCB547	18/54	9.0/3.0	1.25	420	220	140	85	140	X
DCB181	18	1.5	0.35	70	35	22	22	22	45
DCB182	18	4.0	0.61	185	100	60	60	60	120
DCB183/B	18	2.0	0.40	90	50	30	30	30	60
DCB184/B	18	5.0	0.62	240	120	75	75	75	150
DCB185	18	1.3	0.35	60	30	22	22	22	X
DCB187	18	3.0	0.48	140	70	45	45	45	90

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

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

2) Electrical safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

- 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

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- Use 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.
- 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.
- Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

4) Power tool use and care

- Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.

- 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.
- **Only use extension cords that are protected by an RCD.** The RCD on the machine power cord will not prevent electrical shock from the extension cords.
 - **Only grasp the rotating cable with gloves recommended by the manufacturer.** Latex or loose fitting gloves or rags can become wrapped around the cable and may result in serious personal injury.
 - **Do not allow the cutter to stop turning while the cable is turning.** This can overstress the cable and may cause twisting, kinking or breaking of the cable and may result in serious personal injury.
 - **Use latex or rubber gloves inside the gloves recommended by the manufacturer, goggles, face shields, protective clothing, and respirator when chemicals, bacteria or other toxic or infectious substances are suspected to be in a drain line.** Drains may contain chemicals, bacteria and other substances that may cause burns, be toxic or infectious or may result in other serious personal injury.
 - **Practice good hygiene. Do not eat or smoke while handling or operating the drain cleaner. After handling or operating drain-cleaning equipment, use hot, soapy water to wash hands and other body parts exposed to drain contents.** This will help reduce the risk of health hazards due to exposure to toxic or infectious material.
 - **Only use the drain cleaner for the recommended drain sizes.** Using the wrong drain cleaner can lead to twisting, kinking or breaking of the cable and may result in personal injury.

5) Battery tool use and care

- a) **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) **When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- d) **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

6) 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 Drain Cleaners

- **Before using the tool, test the residual current device (RCD) provided with the supply cord to ensure it is operating correctly.** A properly operating RCD reduces risk of electrical shock.
- **Stop the tool immediately if the cable binds and stops.** The cable can twist, kink or break if overstressed.
- **Inspect cable for wear and damage before use.**
- **If the cable is worn or damaged, replace the cable before using the drain cleaner.** Refer to **Optional Accessories**.
- **Do not twist, kink or over bend cables.** A broken cable may result in serious personal injury.
- **The drain cleaning process can damage floors and other surfaces and can be messy.** Use appropriate protective covers to prevent damage and hazards to surrounding area. The front of the drain cleaner should be no farther than 15 cm (6") from drain opening. If not possible, use additional pipe and fittings to extend the drain. Exposing more than 15 cm (6") of cable can cause twisting, kinking, breaking or whipping of the cable.
- **This tool is intended to be used by a single operator, so that they alone are able to control feed and rotation of the cable.** If the cable stops rotating, the user must immediately release the trigger to prevent twisting, kinking, breaking or whipping of the cable.
- **Operate the drain cleaner in reverse rotation only as described in this manual.** Running the tool in reverse for extended periods can cause damage to the cable.
- **Do not pull the trigger with the end of the cable outside of the pipe**

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.

Electrical Safety

The electric motor has been designed for one voltage only. Always check that the battery pack voltage corresponds to the voltage on the rating plate. Also make sure that the voltage of your charger corresponds to that of your mains.



Your DEWALT charger is double insulated in accordance with EN60335; 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.

Mains Plug Replacement (U.K. & Ireland Only)

If a new mains plug needs to be fitted:

- Safely dispose of the old plug.
- Connect the brown lead to the live terminal in the plug.
- Connect the blue lead to the neutral terminal.



WARNING: No connection is to be made to the earth terminal.

Follow the fitting instructions supplied with good quality plugs. Recommended fuse: 3 A.

Using an Extension Cable

An extension cord should not be used unless absolutely necessary. Use an approved extension cable suitable for the power input of your charger (see **Technical Data**). The minimum conductor size is 1 mm²; the maximum length is 30 m.

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

SAVE THESE INSTRUCTIONS

Chargers

DEWALT chargers require no adjustment and are designed to be as easy as possible to operate.

Important Safety Instructions for All Battery Chargers

SAVE THESE INSTRUCTIONS: This manual contains important safety and operating instructions for compatible battery chargers (refer to **Technical Data**).

- Before using charger, read all instructions and cautionary markings on charger, battery pack, and product using battery pack.



WARNING: Shock hazard. Do not allow any liquid to get inside charger. Electric shock may result.



WARNING: We recommend the use of a residual current device with a residual current rating of 30mA or less.



CAUTION: Burn hazard. To reduce the risk of injury, charge only DEWALT rechargeable batteries. Other types of batteries may burst causing personal injury and damage.



CAUTION: Children should be supervised to ensure that they do not play with the appliance.

NOTICE: Under certain conditions, with the charger plugged into the power supply, the exposed charging contacts inside the charger can be shorted by foreign material. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminum foil or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean

- **DO NOT attempt to charge the battery pack with any chargers other than the ones in this manual.** The charger and battery pack are specifically designed to work together.
- **These chargers are not intended for any uses other than charging DEWALT rechargeable batteries.** Any other uses may result in risk of fire, electric shock or electrocution.
- **Do not expose charger to rain or snow.**
- **Pull by plug rather than cord when disconnecting charger.** This will reduce risk of damage to electric plug and cord.
- **Make sure that cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.**
- **Do not use an extension cord unless it is absolutely necessary.** Use of improper extension cord could result in risk of fire, electric shock, or electrocution.
- **Do not place any object on top of charger or place the charger on a soft surface that might block the ventilation slots and result in excessive internal heat.** Place the charger in a position away from any heat source. The charger is ventilated through slots in the top and the bottom of the housing.
- **Do not operate charger with damaged cord or plug—** have them replaced immediately.
- **Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way.** Take it to an authorised service centre.
- **Do not disassemble charger; take it to an authorised service centre when service or repair is required.** Incorrect reassembly may result in a risk of electric shock, electrocution or fire.
- **In case of damaged power supply cord the supply cord must be replaced immediately by the manufacturer, its service agent or similar qualified person to prevent any hazard.**
- **Disconnect the charger from the outlet before attempting any cleaning. This will reduce the risk of electric shock.** Removing the battery pack will not reduce this risk.
- **NEVER attempt to connect two chargers together.**

- **The charger is designed to operate on standard 230V household electrical power. Do not attempt to use it on any other voltage.** This does not apply to the vehicular charger.







Charging a Battery (Fig. B)

1. Plug the charger into an appropriate outlet before inserting battery pack.
2. Insert the battery pack **5** into the charger, making sure the battery pack is fully seated in the charger. The red (charging) light will blink repeatedly indicating that the charging process has started.
3. The completion of charge will be indicated by the red light remaining ON continuously. The battery pack is fully charged and may be used at this time or left in the charger. To remove the battery pack from the charger, push the battery release button **6** on the battery pack.

NOTE: To ensure maximum performance and life of lithium-ion battery packs, charge the battery pack fully before first use.

Charger Operation

Refer to the indicators below for the charge status of the battery pack.

Charge Indicators	
	Charging 
	Fully Charged 
	Hot/Cold Pack Delay* 

*The red light will continue to blink, but a yellow indicator light will be illuminated during this operation. Once the battery pack has reached an appropriate temperature, the yellow light will turn off and the charger will resume the charging procedure.

The compatible charger(s) will not charge a faulty battery pack. The charger will indicate faulty battery by refusing to light or by displaying problem pack or charger blink pattern.

NOTE: This could also mean a problem with a charger.

If the charger indicates a problem, take the charger and battery pack to be tested at an authorised service centre.

Hot/Cold Pack Delay

When the charger detects a battery pack that is too hot or too cold, it automatically starts a Hot/Cold Pack Delay, suspending charging until the battery pack has reached an appropriate temperature. The charger then automatically switches to the pack charging mode. This feature ensures maximum battery pack life.

A cold battery pack will charge at a slower rate than a warm battery pack. The battery pack will charge at that slower rate throughout the entire charging cycle and will not return to maximum charge rate even if the battery pack warms.

The DCB118 charger is equipped with an internal fan designed to cool the battery pack. The fan will turn on automatically when the battery pack needs to be cooled. Never operate the charger if the fan does not operate properly or if ventilation slots

are blocked. Do not permit foreign objects to enter the interior of the charger.

Electronic Protection System

XR Li-Ion tools are designed with an Electronic Protection System that will protect the battery pack against overloading, overheating or deep discharge.

The tool will automatically turn off if the Electronic Protection System engages. If this occurs, place the lithium-ion battery pack on the charger until it is fully charged.

Wall Mounting

These chargers are designed to be wall mountable or to sit upright on a table or work surface. If wall mounting, locate the charger within reach of an electrical outlet, and away from a corner or other obstructions which may impede air flow. Use the back of the charger as a template for the location of the mounting screws on the wall. Mount the charger securely using drywall screws (purchased separately) at least 25.4 mm long with a screw head diameter of 7–9 mm, screwed into wood to an optimal depth leaving approximately 5.5 mm of the screw exposed. Align the slots on the back of the charger with the exposed screws and fully engage them in the slots.

Charger Cleaning Instructions

WARNING: Shock hazard. Disconnect the charger from the AC outlet before cleaning. Dirt and grease may be removed from the exterior of the charger using a cloth or soft non-metallic brush. Do not use water or any cleaning solutions. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.

Battery Packs

Important Safety Instructions for All Battery Packs

When ordering replacement battery packs, be sure to include catalogue number and voltage.

The battery pack is not fully charged out of the carton. Before using the battery pack and charger, read the safety instructions below. Then follow charging procedures outlined.


READ ALL INSTRUCTIONS


- **Do not charge or use battery in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Inserting or removing the battery from the charger may ignite the dust or fumes.
- **Never force battery pack into charger. Do not modify battery pack in any way to fit into a non-compatible charger as battery pack may rupture causing serious personal injury.**
- Charge the battery packs only in DeWALT chargers.
- **DO NOT splash or immerse in water or other liquids.**
- **Do not store or use the tool and battery pack in locations where the temperature may reach or exceed 40 °C (104 °F) (such as outside sheds or metal buildings in summer).**
- **Do not incinerate the battery pack even if it is severely damaged or is completely worn out.** The battery pack can


explode in a fire. Toxic fumes and materials are created when lithium-ion battery packs are burned.

- **If battery contents come into contact with the skin, immediately wash area with mild soap and water.** If battery liquid gets into the eye, rinse water over the open eye for 15 minutes or until irritation ceases. If medical attention is needed, the battery electrolyte is composed of a mixture of liquid organic carbonates and lithium salts.
- **Contents of opened battery cells may cause respiratory irritation.** Provide fresh air. If symptoms persists, seek medical attention.


 **WARNING: Burn hazard.** Battery liquid may be flammable if exposed to spark or flame.

 **WARNING: Never attempt to open the battery pack for any reason.** If battery pack case is cracked or damaged, do not insert into charger. Do not crush, drop or damage battery pack. Do not use a battery pack or charger that has received a sharp blow, been dropped, run over or damaged in any way (i.e., pierced with a nail, hit with a hammer, stepped on). Electric shock or electrocution may result. Damaged battery packs should be returned to service centre for recycling.

 **WARNING: Fire hazard. Do not store or carry the battery pack so that metal objects can contact exposed battery terminals.** For example, do not place the battery pack in aprons, pockets, tool boxes, product kit boxes, drawers, etc., with loose nails, screws, keys, etc.

 **CAUTION: When not in use, place tool on its side on a stable surface where it will not cause a tripping or falling hazard.** Some tools with large battery packs will stand upright on the battery pack but may be easily knocked over.

Transportation

 **WARNING: Fire hazard.** Transporting batteries can possibly cause fire if the battery terminals inadvertently come in contact with conductive materials. When transporting batteries, make sure that the battery terminals are protected and well insulated from materials that could contact them and cause a short circuit.

DeWALT batteries comply with all applicable shipping regulations as prescribed by industry and legal standards which include UN Recommendations on the Transport of Dangerous Goods; International Air Transport Association (IATA) Dangerous Goods Regulations, International Maritime Dangerous Goods (IMDG) Regulations, and the European Agreement Concerning The International Carriage of Dangerous Goods by Road (ADR). Lithium-ion cells and batteries have been tested to section 38.3 of the UN Recommendations on the Transport of Dangerous Goods Manual of Tests and Criteria.

In most instances, shipping a DeWALT battery pack will be excepted from being classified as a fully regulated Class 9 Hazardous Material. In general, only shipments containing a lithium-ion battery with an energy rating greater than 100 Watt Hours (Wh) will require being shipped as fully regulated Class 9. All lithium-ion batteries have the Watt Hour rating marked on the pack. Furthermore, due to regulation complexities, DeWALT

does not recommend air shipping lithium-ion battery packs alone regardless of Watt Hour rating. Shipments of tools with batteries (combo kits) can be air shipped as excepted if the Watt Hour rating of the battery pack is no greater than 100 Whr.

Regardless of whether a shipment is considered excepted or fully regulated, it is the shipper's responsibility to consult the latest regulations for packaging, labeling/marketing and documentation requirements.

The information provided in this section of the manual is provided in good faith and believed to be accurate at the time the document was created. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with the applicable regulations.

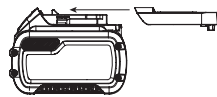
Transporting the FLEXVOLT™ Battery

The DeWALT FLEXVOLT™ battery has two modes: **Use** and **Transport**.

Use Mode: When the FLEXVOLT™ battery stands alone or is in a DeWALT 18V product, it will operate as an 18V battery. When the FLEXVOLT™ battery is in a 54V or a 108V (two 54V batteries) product, it will operate as a 54V battery.

Transport Mode: When the cap is attached to the FLEXVOLT™ battery, the battery is in Transport mode. Keep the cap for shipping.

When in Transport mode, strings of cells are electrically disconnected within the pack resulting in 3 batteries with a lower Watt hour (Wh) rating as compared to 1 battery with a higher Watt hour rating. This increased quantity of 3 batteries with the lower Watt hour rating can exempt the pack from certain shipping regulations that are imposed upon the higher Watt hour batteries.



For example, the Transport Wh rating might indicate 3 x 36 Wh, meaning 3 batteries of 36 Wh each. The Use Wh rating might indicate 108 Wh (1 battery implied).

Example of Use and Transport Label Marking



Storage Recommendations

1. The best storage place is one that is cool and dry away from direct sunlight and excess heat or cold. For optimum battery performance and life, store battery packs at room temperature when not in use.
2. For long storage, it is recommended to store a fully charged battery pack in a cool, dry place out of the charger for optimal results.

NOTE: Battery packs should not be stored completely depleted of charge. The battery pack will need to be recharged before use.

Labels on Charger and Battery Pack

In addition to the pictographs used in this manual, the labels on the charger and the battery pack may show the following pictographs:



Read instruction manual before use.



See **Technical Data** for charging time.



Do not probe with conductive objects.



Do not charge damaged battery packs.



Do not expose to water.



Have defective cords replaced immediately.



Charge only between 4 °C and 40 °C.



Only for indoor use.



Discard the battery pack with due care for the environment.



Charge DEWALT battery packs only with designated DEWALT chargers. Charging battery packs other than the designated DEWALT batteries with a DEWALT charger may make them burst or lead to other dangerous situations.



Do not incinerate the battery pack.



USE (without transport cap). Example: Wh rating indicates 108 Wh (1 battery with 108 Wh).



TRANSPORT (with built-in transport cap). Example: Wh rating indicates 3 x 36 Wh (3 batteries of 36 Wh).

Battery Type

The DCD200 operates on an 18 volt battery pack.

These battery packs may be used: DCB181, DCB182, DCB183, DCB183B, DCB184, DCB184B, DCB185, DCB187, DCB546, DCB547. Refer to **Technical Data** for more information.

Package Contents

The package contains:

- 1 Cordless drain cleaner
- 1 Inner drum with cable
- 1 Charger
- 1 Li-Ion battery pack (C1, D1, L1, M1, P1, S1, T1, X1 models)
- 2 Li-Ion battery packs (C2, D2, L2, M2, P2, S2, T2, X2 models)
- 3 Li-Ion battery packs (C3, D3, L3, M3, P3, S3, T3, X3 models)
- 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.

Markings on Tool

The following pictograms are shown on the tool:



Read instruction manual before use.



Visible radiation. Do not stare into light.



Cable direction

Date Code Position (Fig. A)

The date code **15**, which also includes the year of manufacture, is printed into the housing.

Example:

2017 XX XX

Year of Manufacture

Description (Fig. A)



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

- 1 Forward/reverse control button
- 2 Variable speed trigger switch
- 3 Main handle
- 4 Worklight switch
- 5 Battery pack
- 6 Battery release button
- 7 Adjustable LED Worklight
- 8 Fixed shroud
- 9 Drum cover
- 10 Front handle
- 11 Cable
- 12 Inner drum
- 13 Cable bulb end
- 14 Cable direction symbol
- 15 Date code

Intended Use

This drain cleaner is designed for professional drain cleaning applications.

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

This drain cleaner is a professional power tool.

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.

Variable Speed Trigger Switch (Fig. A)

To turn the tool on, squeeze the trigger switch 2. To turn the tool off, release the trigger switch. The tool speed is controlled by varying the trigger position.

NOTE: Continuous use in variable speed range is not recommended. It may damage the switch and should be avoided.

Forward/Reverse Control Button (Fig. A)

A forward/reverse control button 1 determines the spin direction of the cable and also serves as a lock-off button.

To select forward rotation, release the trigger switch and depress the forward/reverse control button on the right side of the tool.

To select reverse, release the trigger switch and depress the forward/reverse control button on the left side of the tool.

The centre position of the control button locks the tool in the off position. When changing the position of the control button, be sure the trigger is released.

NOTE: The first time the tool is run after changing the direction of rotation, you may hear a click on start up. This is normal and does not indicate a problem.

NOTE: The tool must come to a complete stop before changing the tool's direction or running the tool in the opposite direction.

Front Handle/Cable Lock (Fig. A)

The front handle 10 has a lock position and unlock position.

When pushed forward, the front handle will unlock allowing the cable to be pulled out of or pushed into the drum. When pulled backward, the front handle locks the cable into position.

Adjustable LED Worklight (Fig. A, C)

The adjustable LED worklight 7 (Fig. A) is located on the base of the fixed drum shield 8. The worklight switch 4, Fig. C, is located on the foot of the tool's main handle 3. The worklight is activated when the trigger switch is depressed. The low, medium and spotlight modes can be changed by moving the switch 4. If the trigger switch remains depressed, the worklight will remain on in all modes.

When on low and medium settings, the beam will stay illuminated for up to 20 seconds after the trigger switch is released.

Spotlight Mode

The high setting is the spotlight mode. The spotlight will run for 20 minutes after the trigger switch is released. Two minutes before the spotlight will shut off, it will flash twice and then dim. To avoid the spotlight shutting off, lightly tap the trigger switch.

WARNING: While using the worklight in medium or spotlight mode, do not stare at the light or place the tool in a position which may cause anyone to stare into the light. Serious eye injury could result.



CAUTION: When using the tool as a spotlight, be sure it is secured on a stable surface where it will not cause a tripping or falling hazard.



CAUTION: Fully retract the cable into the drum before using the tool as a spotlight. Personal injury or property damage could result.

Low Battery Warning

When in spotlight mode and the battery is nearing complete discharge, the spotlight will flash twice and then dim. After two minutes, the battery will be completely discharged and the tool will immediately shut down. At this point, replace with a fresh battery.



WARNING: To reduce the risk of injury, always have a back-up battery or secondary lighting available if the situation warrants it.

ASSEMBLY AND ADJUSTMENTS



WARNING: To reduce the risk of serious personal injury, turn unit off and remove the battery pack before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.



WARNING: Use only DEWALT battery packs and chargers.

Inserting and Removing the Battery Pack from the Tool (Fig. B)

NOTE: Make sure your battery pack 5 is fully charged.

To Install the Battery Pack into the Tool Handle

1. Align the battery pack 5 with the rails inside the tool's handle (Fig. B).
2. Slide it into the handle until the battery pack is firmly seated in the tool and ensure that you hear the lock snap into place.

To Remove the Battery Pack from the Tool

1. Press the release button 6 and firmly pull the battery pack out of the tool handle.
2. Insert battery pack into the charger as described in the charger section of this manual.


Fuel Gauge Battery Packs (Fig. B)

Some DEWALT battery packs include a fuel gauge which consists of three green LED lights that indicate the level of charge remaining in the battery pack.

To actuate the fuel gauge, press and hold the fuel gauge button 6. A combination of the three green LED lights will illuminate designating the level of charge left. When the level of charge in the battery is below the usable limit, the fuel gauge will not illuminate and the battery will need to be recharged.

NOTE: The fuel gauge is only an indication of the charge left on the battery pack. It does not indicate tool functionality and is subject to variation based on product components, temperature and end-user application.


Cable Removal from the Drain Cleaner and Cable Drum Installation

-  **WARNING:** To reduce the risk of injury, wear safety goggles or glasses with side shields. Always wear leather gloves with latex gloves inside. The cable is under stress and can uncoil unexpectedly. Cable end feature may be sharp.

Remove the cable for cleaning after each use.

To remove the cable:


1. Remove the battery pack from the tool.
2. Pull the front handle **10** out away from the tool to the unlocked position.
3. With the tool supported vertically, remove the four screws from the drum cover **9**.


-  **WARNING!** The cable is under stress and can uncoil unexpectedly. Keep pressure on the drum cover so it does not uncoil.

4. Carefully lift the drum cover up, reach underneath to hold the cable firmly while pulling off the drum cover **9** and front handle **10** to expose the inner drum **12**.
5. Remove the cable from the drum cover and front handle and tuck it into the inner drum. Set the drum cover aside.
6. Carefully remove the inner drum with cable from the drain cleaner.
7. When cleaning the cable, carefully uncoil the cable from the inner drum. Refer to **Cleaning** under **Maintenance**.


To install the cable:

1. Remove the battery pack from the tool.
2. Pull the front handle **10** out away from the tool to the unlocked position.
3. Remove the four screws from the drum cover **9**.
4. Fully wind the clean, dry cable into the inner drum **12** following the cable direction symbol **14** (Fig. A).

-  **WARNING!** Winding the cable in the wrong direction could cause the tool to apply excessive torque causing the cable to kink during bind up.


-  **WARNING:** Never install a new cable by threading it through the front handle on the tool. Always disassemble the drum cover so you can be sure the cable is wound in the proper direction.


5. Place the inner drum with cable back into the tool.
6. Carefully pull the cable bulb end out of the inner drum and feed it through the front handle.


-  **WARNING!** The cable is under stress and can unwind unexpectedly. Keep pressure on the cable so it does not unwind.

7. Place the drum cover and front handle over the inner drum and reinstall the four screws. Tighten securely.
NOTE: If the unit is unbalanced and/or vibrates unnecessarily, the cable may be wound poorly.


OPERATION

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

-  **WARNING:** To reduce the risk of serious personal injury, turn unit off and remove the battery pack before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.

-  **WARNING:** Always wear eye and other protective equipment appropriate to the task.

-  **WARNING:** Always wear leather work gloves with latex gloves inside.

-  **WARNING:** Do not operate if more than 15 cm of cable is outside of pipe or drum.


-  **WARNING:** The cable can whip or tangle.

-  **WARNING:** Do not hold cable while it is turning.

-  **WARNING:** Cable end feature may be sharp.

Proper Hand Position (Fig. D)


-  **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 front handle **10**, with the other hand on the main handle **3**.


Clearing a Drain

1. Put forward/reverse control button **1** in the centre position.
2. Install the battery pack into the handle.
3. Move the forward/reverse control button **1** to the forward position.
4. Pull the front handle **10** out into the unlock position.
5. Pull at least 46 cm (18") of the cable from the tool. Insert at least 30 cm (12") of cable into the drain, leaving no more than 15 cm (6") of the cable exposed.

-  **WARNING:** Do not operate if more than 15 cm (6") of cable is exposed. Greater distance can cause twisting, kinking, breaking or whipping of the cable.

-  **WARNING:** Always wear leather work gloves with latex gloves inside when operating the drain cleaner.

-  **WARNING:** If the cable is blocked either by the blockage or the pipe so that the cable will not rotate, refer to the **To Unbind Drain Cleaner** section.

-  **WARNING:** If the cable is stopped from rotating due to a blockage or the pipe, release the trigger immediately.

-  **WARNING:** Only operate in reverse to remove the cable from an obstruction.


6. Continue to feed the cable out by hand into the pipe until it becomes difficult.

7. As feeding the cable becomes more difficult, move the front handle back to lock the cable with only 15 cm (6") of cable exposed. With hands clear of the cable, pull the trigger to begin rotating the cable, and move the drain cleaner towards the drain opening to push the cable down the drain.
8. Release the trigger, move the front handle forward to unlock the cable, grip the cable with your gloved hand to prevent it from pulling out of the drain and pull the drain cleaner back so that no more than 15 cm (6") of cable is exposed.


NOTE: The cable is not attached to the inner drum. Use care when feeding out the last 1.5 m to 2.13 m (5 to 7 feet) of the cable, to ensure that it does not come out of the machine.

9. Repeat the steps 6–8 to continue advancing the cable.

To Unbind Drain Cleaner


 **WARNING:** Be sure the cable has come to a complete stop before setting to reverse position.

1. Set the front handle to the unlocked position and the forward/reverse switch to the reverse position.
2. Withdraw the tool a few inches while in reverse to free the cable.
3. Stop the tool.
4. After the tool has come to a complete stop, switch back to the forward position.

 **CAUTION:** Running the tool in reverse for extended periods can cause damage to the cable and accessories. Only operate in reverse to remove the cable from an obstruction.

Removing Cable From Drain

1. Set the front handle to the unlocked position.
2. Set the forward/reverse switch to the forward position.
3. Pull the trigger slightly and pull the tool back to remove about 15 cm (6") of cable from the drain.
4. Release the trigger and lock the forward/reverse button in the centre position.
5. Wipe the exposed cable with a rag and feed it back into the tool.
6. Repeat steps 1–5 until the cable is near the drain opening. Then feed the remaining cable back into the drum by hand.

 **WARNING:** Never retract the cutter from the drain opening while the cable is rotating. The cable could whip and cause serious injury.

NOTE: Before storing the tool, wash the cable and drum (refer to **Cleaning**).

Hint: It's useful to have a stream of water running through the line to wash fragments away while the machine is in operation and after. Avoid getting the motor, handle and battery wet.

7. When the cable nears the drain opening, take your finger off of the trigger switch to stop cable rotation.

Cable Application Chart


Cable Size	Pipe Size	Typical Applications
6 mm (1/4")	19 mm to 38 mm (3/4" to 1-1/2")	Sinks and bathtub drains
8 mm (5/16")	32 mm to 50 mm (1-1/4" to 2")	Sinks, wash tubs, small drains
10 mm (3/8")	50 mm to 76 mm (2" to 3")	Floor drains, toilets

The 6 mm (1/4") and 8 mm (5/16") diameter cable with a bulb end can be rotated through most strainer crossbars and work well in lines blocked by soft stoppages such as hair, soap, fats, etc.

Maximum Capacity: 10.6 m (35 ft.) of 10 mm (3/8") cable.

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

The charger and battery pack are not serviceable.




Lubrication


Your power tool requires no additional lubrication.



Cleaning

 **WARNING:** Remove battery before cleaning tool.

 **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 motor and handle of the tool; never immerse any part of the tool into a liquid.

Rinse, dry and lightly oil the cable after each use to prevent damage from sediment and drain cleaning chemicals.

Remove the cable and inner drum before rinsing. Refer to **Cable Removal from the Drain Cleaner and Cable Drum Installation**.

NOTE: The cable can twist, kink or break if overstressed.

 **WARNING!** Wear leather gloves with latex gloves inside.

Optional Accessories



WARNING: *Since accessories, other than those offered or recommended 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.

DEWALT Accessories Available for Purchase

DCD2000	Inner Drum
DCD2005	7.6 m of 8 mm Bulb Head Cable

Protecting the Environment



Separate collection. Products and batteries marked with this symbol must not be disposed of with normal household waste.

Products and batteries contain materials that can be recovered or recycled reducing the demand for raw materials. Please recycle electrical products and batteries according to local provisions. Further information is available at www.2helpU.com.

Rechargeable Battery Pack

This long life battery pack must be recharged when it fails to produce sufficient power on jobs which were easily done before. At the end of its technical life, discard it with due care for our environment:

- Run the battery pack down completely, then remove it from the tool.
- Li-Ion cells are recyclable. Take them to your dealer or a local recycling station. The collected battery packs will be recycled or disposed of properly.

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