
DEWALT®

XR LI-ION

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DCN680

Fig. A

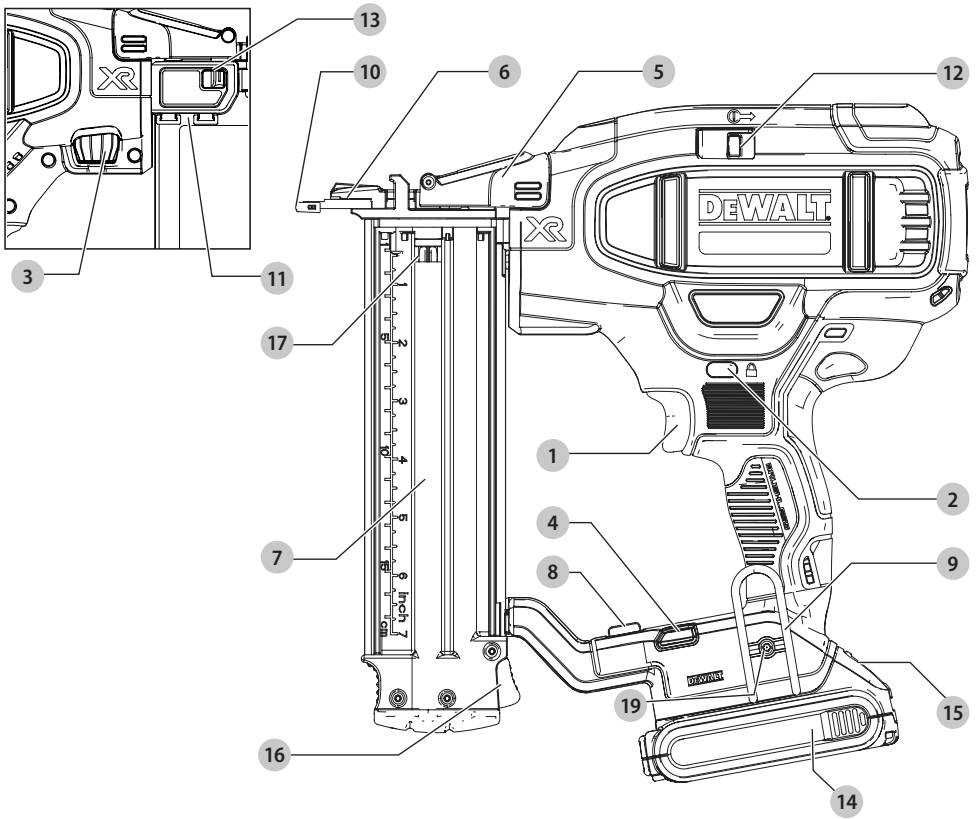


Fig. B

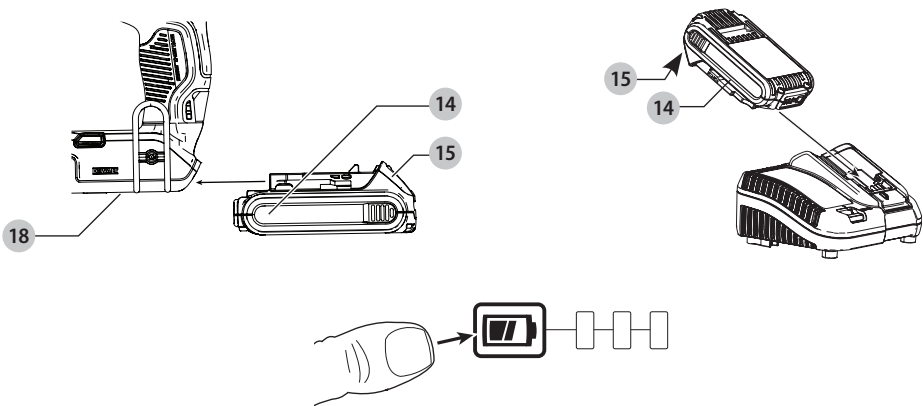


Fig. C

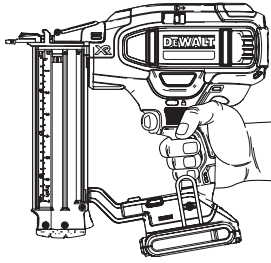


Fig. D

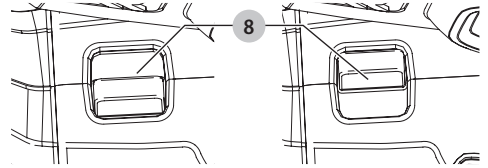


Fig. E

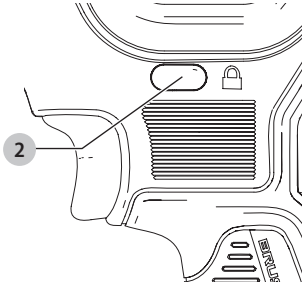


Fig. F

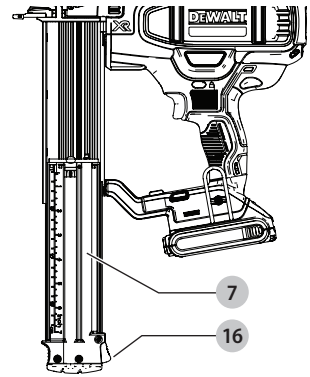


Fig. G

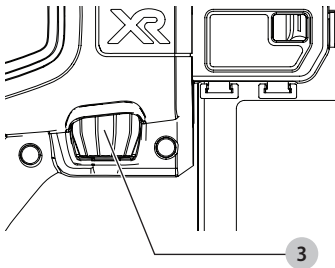


Fig. H

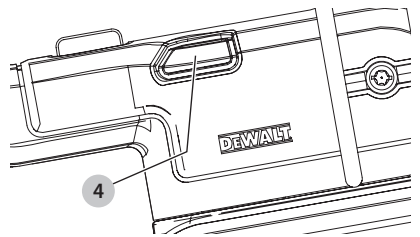
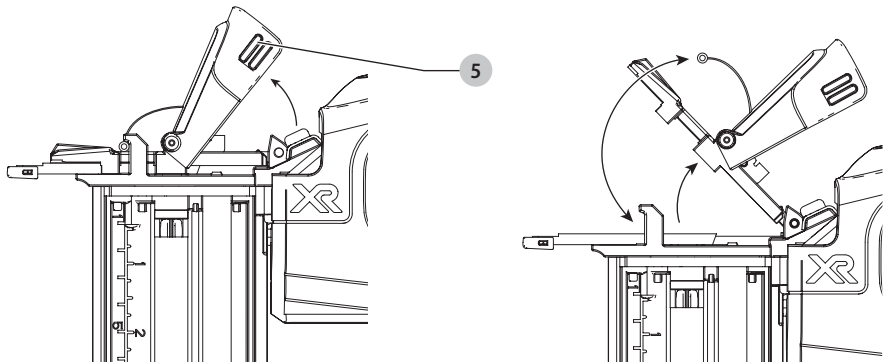


Fig. I



CORDLESS 18GA STRAIGHT FINISH NAILER

DCN680

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

		DCN680
Voltage	V_{DC}	18
Type		1
Battery type		Li-Ion
Actuating mode		Sequential / Bump
Fasteners		
length	mm	15-54
shank diameter	mm	1.25
angle		0°
Weight (without battery pack)	kg	2.4
Noise values and vibration values (tri-ax vector sum) according to EN60745-2-16:		
L_{PA} (emission sound pressure level)	dB(A)	84
L_{WA} (sound power level)	dB(A)	95
K (uncertainty for the given sound level)	dB(A)	3
Vibration emission value $a_h =$		
	m/s^2	2,5
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



Cordless 18GA Straight Finish Nailer DCN680

DeWALT declares that these products described under **Technical Data** are in compliance with:

2006/42/EC, EN60745-1:2009+A11:2010, EN60745-2-16:2010

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

13.02.2017



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.

General Power Tool Safety Warnings



WARNING: Read all safety warnings and all instructions. Failure to follow the warnings and

Batteries				Chargers/Charge Times (Minutes)					
Cat #	V _{DC}	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

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.

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.

Nailer Safety Warnings

- **Always assume that the tool contains fasteners.** Careless handling of the nailer can result in unexpected firing of fasteners and personal injury.

- **Do not point the tool towards yourself or anyone nearby.** Unexpected triggering will discharge a fastener causing an injury.
- **Do not actuate the tool unless the tool is placed firmly against the workpiece.** If the tool is not in contact with the workpiece, the fastener may be deflected away from your target.
- **Disconnect the tool from the power source when the fastener jams in the tool.** While removing a jammed fastener, the nailer may be accidentally activated if it is plugged in.
- **Use caution while removing a jammed fastener.** The mechanism may be under compression and the fastener may be forcefully discharged while attempting to free a jammed condition.
- **Do not use this nailer for fastening electrical cables.** It is not designed for electric cable installation and may damage the insulation of electric cables thereby causing electric shock or fire hazards.

Additional Nailer Safety Warnings



WARNING: When using any nailer, all safety precautions, as outlined below, should be followed to avoid the risk of death or serious injury. Read and understand all instructions before operating the tool.



WARNING: NEVER spray or in any other way apply lubricants or cleaning solvents inside the tool. This can seriously affect the life and performance of the tool.



WARNING: If the tool has been dropped or you suspect tool damage perform tool operation check as defined in the mode selection section of the manual. If it doesn't perform according to the manual, stop using the tool and have it serviced at an authorised DEWALT service centre.

- **Hold tool by insulated gripping surfaces when performing an operation where driven fasteners may contact hidden wiring.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
- **Always wear appropriate personal hearing and other protection during use.** Under some conditions and duration of use, noise from this product may contribute to hearing loss.
- **Disconnect battery pack from the tool when not in use.** Always remove battery pack and remove fasteners from magazine before leaving the area or passing the tool to another operator. Do not carry tool to another work area in which changing location involves the use of scaffolding, stairs, ladders, and the like, with battery pack connected. Do not make adjustments, perform maintenance or clear jammed fasteners while battery is in place.
- **Do not remove, tamper with, or otherwise cause the tool, trigger, trigger lock-off, or contact trip to become inoperable.** Do not tape or tie trigger or contact trip in the on position. Do not remove spring from contact trip. Make daily inspections for free movement of trigger and contact trip. Uncontrolled discharge could result.

- **Inspect tool before use. Do not operate a tool if any portion of the tool, trigger, trigger lock-off, or contact trip is inoperable, disconnected, altered, or not working properly.** Damaged parts or missing parts should be repaired or replaced before use. Refer to **Maintenance**.
- **Do not alter or modify the tool in any way.**
- **Always assume that the tool contains fasteners.**
- **Do not point the tool at co-workers or yourself at any time.** No horseplay! Work safe! Respect the tool as a working implement.
- **Do not carry the tool from place to place holding the trigger.** Accidental discharge could result.
- **Always use trigger lock-off when tool is not in immediate use.** Using the **trigger lock-off** will prevent accidental discharge.
- **Do not overreach.** Maintain proper footing and balance at all times. Loss of balance may cause personal injury.
- **Use the tool only for its intended use. Do not discharge fasteners into open air, concrete, stone, extremely hard woods, knots or any material too hard for the fastener to penetrate. Do not use the body of the tool or top cap as a hammer. Discharged fasteners may follow an unexpected path and cause injury.**
- **Always keep fingers clear of contact trip to prevent injury from inadvertent release of the pusher.**
- **Always operate the tool in a clean, lighted area.** Be sure the work surface is clear of any debris and be careful not to lose footing when working in elevated environments such as rooftops.
- **Do not drive fasteners near edge of material.** The workpiece may split causing the fastener to ricochet, injuring you or a co-worker. Be aware that the nail may follow the grain of the wood (shiner), causing it to protrude unexpectedly from the side of the work material. Drive the chisel point of the nail perpendicular to the grain to reduce risk of injury.
- **Do not drive nails onto the heads of other fasteners or with the tool at too steep an angle.** Personal injury from strong recoil, jammed fasteners, or ricocheted nails may result.
- **Keep hands and body parts clear of immediate work area.** Hold workpiece with clamps when necessary to keep hands and body out of potential harm. Be sure the workpiece is properly secured before pressing the nailer against the material. The contact trip may cause the work material to shift unexpectedly.
- **Do not use tool in the presence of flammable dust, gases or fumes.** The tool may produce a spark that could ignite gases causing a fire. Driving a nail into another nail may also cause a spark.
- **Keep face and body parts away from back of the tool cap when working in restricted areas.** Sudden recoil can result in impact to the body, especially when nailing into hard or dense material.
- **Grip tool firmly to maintain control while allowing tool to recoil away from work surface as fastener is driven. In Bump**

mode if contact trip is allowed to recontact work surface before trigger is released an unwanted fastener will be driven.

- *Choice of triggering method is important. Check the manual for triggering options.*

Sequential/Bump Selector Switch

Sequential Action

- **When using the tool in sequential mode, do not actuate the tool unless the tool is placed firmly against the workpiece.**

Bump Action (Fig. D)

- **When using the tool in bump action, be careful of unintentional double fires resulting from tool recoil.** Unwanted fasteners may be driven if the contact trip is allowed to accidentally re-contact the work surface.
- **When “bump” actuating the finish nailer, always keep tool in control.** Inaccurate placement of tool can result in misdirected discharge of a fastener.
- **To Avoid Double Fires:**
 - Do not engage the tool against the work surface with a strong force.
 - Allow the tool to recoil fully after each actuation.
 - Use tool in sequential mode.
- **Do not drive nails onto the heads of other fasteners.** Strong recoil, jammed fasteners, or ricocheted nails may result.
- **Be aware of material thickness when using nailer.** A protruding nail may cause injury.
- **Depth adjustment: To reduce risk of serious injury from accidental actuation when attempting to adjust depth, ALWAYS;**
 - Remove battery pack.
 - Engage trigger lock.
 - Avoid contact with trigger during adjustments
- **Do not drive nails blindly into walls, floors or other work areas.** Fasteners driven into live electrical wires, plumbing, or other types of obstructions can result in injury.
- **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.

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 **14** 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 **15** 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.

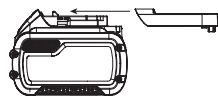
Transporting the FLEXVOLT™ Battery

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

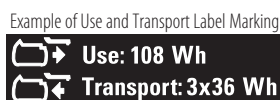
Use Mode: When the FLEXVOLT™ battery stands alone or is in a DEWALT 18V product, it will operate as an 18V battery. When the FLEXVOLT™ battery is in a 54V or a 108V (two 54V batteries) product, it will operate as a 54V battery.

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).



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.



LI-ION

Discard the battery pack with due care for the environment.



DCBXXX

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 DCN680 operates on a 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 Nailer
- 3 Non-mar tips
- 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.

NOTE: N and NT versions are not supplied with batteries or a charger.

Markings on Tool

The following pictograms are shown on the tool:



Read instruction manual before use.



Wear ear protection.



Wear eye protection.



Do not operate tool on scaffolding, ladders.



Length of nails.



Nail gauge.



Magazine capacity.



Tool voltage.



Magazine angle: 0°.

Date Code Position (Fig. B)

The date code **18**, which also includes the year of manufacture, is printed on the tool foot between the face of the battery and the nailer.

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 Trigger | 9 Reversible belt hook |
| 2 Trigger lock-off | 10 No-mar pad |
| 3 Depth adjustment wheel | 11 No-mar pad storage |
| 4 Headlights/low battery/stall indicator | 12 Stall release lever |
| 5 Jam clearing latch | 13 Nail depth indicator |
| 6 Contact trip | 14 Battery |
| 7 Sliding magazine | 15 Battery release button |
| 8 Bump/sequential selector switch | 16 Magazine latch |
| | 17 Low nail indicator |

Intended Use

Your cordless finish nailer has been designed for driving nails into wooden workpieces.

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


Your cordless finish nailer 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.

ASSEMBLY AND ADJUSTMENTS

 **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.

 **WARNING:** Use only DEWALT battery packs and chargers.


Belt Hook (Fig. A)


The cordless nailers include an integrated belt hook and can be attached to either side of the tool to accommodate left- or right-handed users.


If the hook is not desired at all, it can be removed from the tool.

To Remove Belt Hook

1. Remove battery pack from tool.
2. To switch the tool from right- to left-hand usage simply remove the screw **19** from the opposite side of the tool and reassemble on the other side.
3. Replace battery pack.

 **WARNING:** Remove nails from magazine before making any adjustments or servicing this tool. Failure to do so may result in serious injury.

 **WARNING:** Disconnect battery pack from tool before making any adjustments, changing accessories, servicing, or moving the tool. Such preventative safety measures reduce the risk of starting the tool accidentally.

 **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.

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

NOTE: Make sure your battery pack **14** is fully charged.

To Install the Battery Pack into the Tool Handle

1. Align the battery pack **14** 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 **15** 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. 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.


OPERATION


Instructions for Use

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

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

Proper Hand Position (Fig. C)


 **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 main handle as shown.

Mode Selection


The finish nailer is capable of firing nails using bump actuation or sequential actuation. Before operating this tool, look at the selector switch to determine the actuation mode. Read all instructions before selecting actuation mode.

 **WARNING:** Keep fingers AWAY from trigger when not driving nails to avoid accidental fastener discharge. NEVER carry tool with finger on trigger. In bump mode tool will drive a nail if contact trip is bumped while trigger is depressed.

Sequential Action (Fig. D)

Use sequential actuation mode for intermittent nailing where very careful and accurate placement and depth control is desired. The sequential actuation mode provides the maximum delivery of power for driving the longest nails.

To operate the nailer in sequential actuation mode:

1. Slide the selector switch **8** to expose the single nail icon .
2. Fully depress nosepiece against the work surface (motor will start).
3. Pull trigger (nail will drive into work surface).
4. Release trigger.



5. Lift nosepiece off work surface.
6. Repeat steps 2 through 4 for next application.

NOTICE: The contact trip needs to be depressed followed by a trigger pull for each nail followed by a release of both the contact trip and trigger after each nail.


Bump Action (Fig. D)

Bump action is intended for rapid nailing on flat, stationary surfaces and typically most effective for applications that require driving shorter nails.

When the tool is set in the bump actuation mode, two methods of tool operation are available: place actuation and bump actuation.

Slide the selector switch  to expose the triple nail icon .


To operate the tool using the place actuation method:


 **WARNING:** A nail will be driven each time the trigger is depressed as long as the contact trip remains depressed.

1. Depress the contact trip against the work surface.
2. Depress the trigger.


To operate the tool using the bump actuation method:

3. Depress the trigger.
4. Push the contact trip against the work surface. As long as the trigger is depressed, the tool will drive a nail every time the contact trip is depressed. This allows the user to drive multiple nails in sequence.

 **WARNING:** Do not keep trigger depressed when tool is not in use. Keep the trigger lock-off in the locked position when the tool is not in use.

 **WARNING:** When the tool's motor is running, pulling the trigger or depressing the contact trip will cause a nail to be driven.

Preparing the Tool


 **WARNING: NEVER** spray or in any other way apply lubricants or cleaning solvents inside the tool. This can seriously affect the life and performance of the tool.

NOTE: The battery pack is not fully charged out of the carton.


Follow instructions outlined (see **Charging a Battery**).

- **Read the Safety Instruction section of this manual.**
- Wear eye and ear protection.
- Ensure magazine is empty of all fasteners.
- Check for smooth and proper operation of contact trip and pusher assemblies. Do not use tool if either assembly is not functioning properly. **NEVER** use a tool that has the contact trip restrained in the actuated position.
- Keep tool pointed away from yourself and others.
- Insert fully charged battery pack.

Using the Trigger Lock-off (Fig. E)

 **WARNING:** To reduce the risk of serious personal injury, do not keep trigger depressed when tool is not in use. Keep the trigger lock-off switch LOCKED (Fig. E) when the tool is not in use.

 **WARNING:** To reduce the risk of serious personal injury, lock off trigger, disconnect battery pack from tool and remove nails from magazine before making adjustments.


Each DEWALT nailer is equipped with a trigger lock-off  which when pushed to the right as shown in Figure E, prevents the tool from firing a nail by locking the trigger and bypassing power to the motor.


When the trigger lock-off is pressed to the left, the tool will be fully operational. The trigger lock-off should always be locked off whenever any adjustments are made or when tool is not in immediate use.

NOTICE: Do not store tool with battery pack installed. To prevent damage to the pack and to ensure best battery life, store battery packs out of the tool or charger in a cool, dry location.



Loading the Tool (Fig. F)

 **WARNING:** Keep the tool pointed away from yourself and others. Serious personal injury may result.


 **WARNING:** Never load nails with the contact trip or trigger activated. Personal injury may result.



 **WARNING:** Always remove battery pack before loading or unloading nails. Serious personal injury may result.

Load and Draw Method (Fig. A)


1. Press magazine latch  and open sliding magazine  fully.
2. Insert fasteners into the side of magazine; fasteners should be loaded with chisel tip against front of magazine.
3. Close sliding magazine until the magazine latch clips snugly.

Unloading The Tool


 **WARNING:** The trigger lock-off should always be locked off whenever any adjustments are made or when tool is not in use.

1. Press magazine latch  and open sliding magazine  fully.
2. Tip the tool up until the nails slide freely out of the side of the magazine. Close sliding magazine fully.
3. Open the jam clear door on the nosepiece to verify there are no nails remaining.

Dryfire Lock Out Feature (Fig. A)

Your nailer is equipped with a dryfire lock out feature to prevent it from cycling when there are no fasteners loaded. When the low nail indicator  is visible, the tool is running low on fasteners. When this happens, the tool will be locked out and will not actuate until more nails are loaded. (Refer to **Loading the Tool**.)

Adjusting Depth (Fig. G)

The depth that the fastener is driven can be adjusted using the depth adjustment wheel  on the side of the tool.

WARNING: To reduce risk of serious injury from accidental actuation when attempting to adjust depth, ALWAYS:

- Remove battery pack.
- Engage trigger lock-off.
- Avoid contact with trigger during adjustments.

1. To drive the nail shallower (⊖), rotate the depth adjustment wheel ③ away from the nose of the nailer.
2. To sink a nail deeper (⊕), rotate the depth adjustment wheel ③ toward the nose of the nailer.

Headlights (Fig. H)

There is a headlight ④ located on each side of the nailer. Headlights turn on upon battery insertion, activation of the trigger, or depressing the contact trip. The lights will automatically shut off after 20 seconds unless tool remains in use.

NOTE: These headlights are for lighting the immediate work surface and are not intended to be used as flashlights.

Low battery indicator: The left-side headlight will flash four consecutive times and then shut down to indicate low battery.

Jammed nail indicator: The right-side headlight will flash continually if a nail becomes jammed in the nosepiece (see **Clearing a Stall or Jammed Nail**).

Clearing a Stall or Jammed Nail (Fig. A, F, I)

If a nail becomes jammed in the nosepiece or the tool stalls, the right-hand headlight will blink continuously. Keep the tool pointed away from you and follow these instructions to clear:

1. Remove battery pack from tool and engage the trigger lock-off.
2. Press the magazine latch ⑩ and remove any loaded nails.
3. Lift the jam clear latch ⑤ then pull up to open the nosepiece door.
4. Remove bent nail, using pliers if necessary.
5. If driver blade is in the down position, cycle the stall release lever ⑫ using enough force to fully slide it to the other end of the slot in the housings.
6. Close the nosepiece door and engage the latch pin under the two arms on the nosepiece. Push latch until it locks in place.
7. Reinsert battery pack.
NOTE: The tool will disable itself and not reset until the battery pack has been removed and reinserted.
8. Reinsert nails into magazine (see **Loading the Tool**).
NOTE: Should nails continue to jam frequently in nosepiece, have tool serviced by an authorised DEWALT service centre.

Cold Weather Operation

When operating tools at temperatures below freezing:

1. Keep tool as warm as possible prior to use.
2. Actuate the tool 5 or 6 times into scrap timber before using.

Hot Weather Operation

Tool should operate normally. However, keep tool out of direct sunlight as excessive heat can deteriorate bumpers and other rubber parts resulting in increased maintenance.

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: Blow dirt and dust out of the main housing with dry air as often as dirt is seen collecting in and around the air vents. Wear approved eye protection and approved dust mask when performing this procedure.

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

Optional Accessories

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

Consult your dealer for further information on the appropriate accessories.

Protecting the Environment



Separate collection. 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 replaced 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.