DEWALT®

XR®

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DCS378

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Fig. A

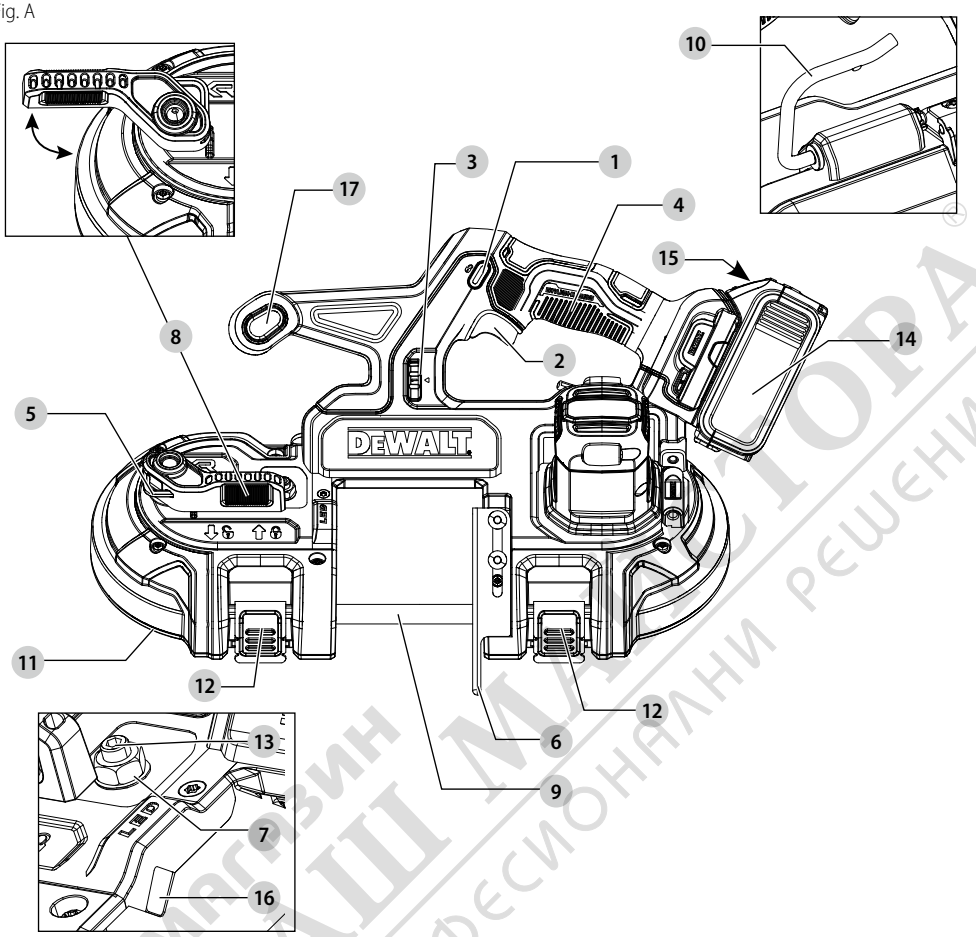


Fig. B

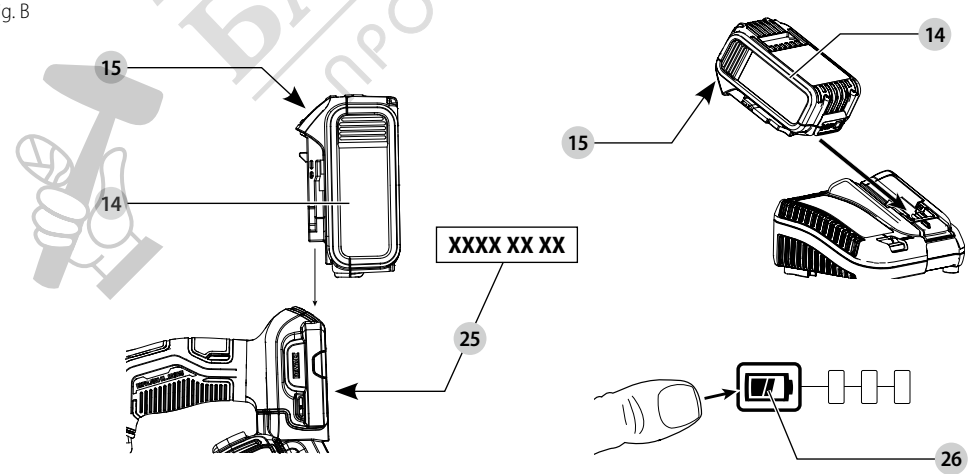


Fig. C

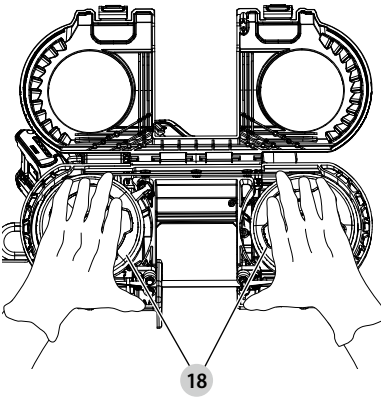


Fig. D

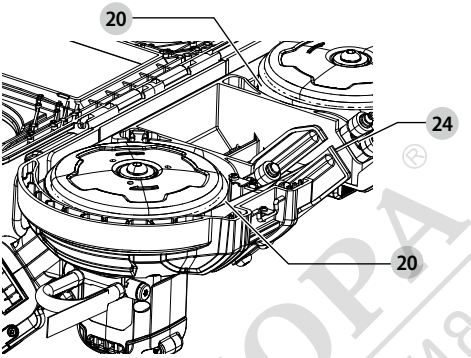


Fig. E

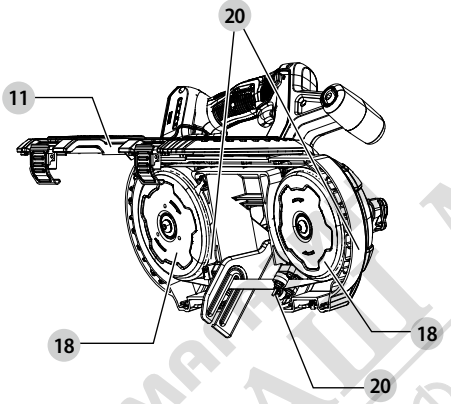


Fig. F

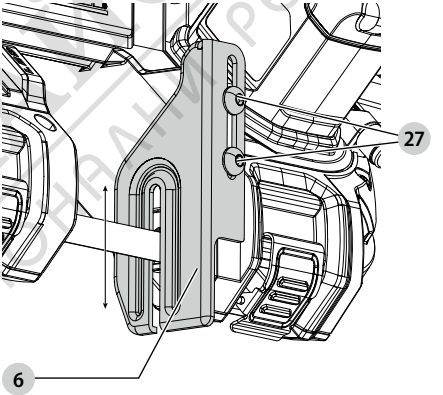


Fig. G

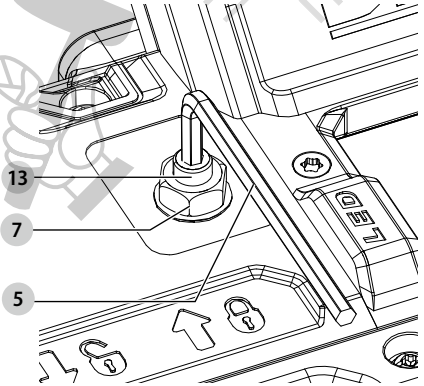


Fig. H

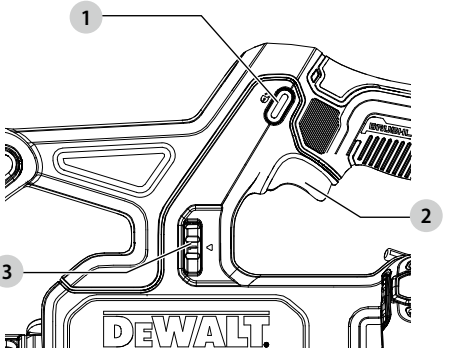


Fig. I

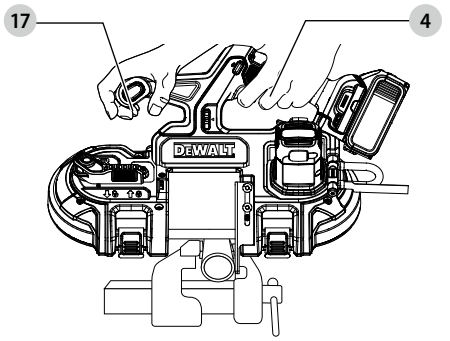
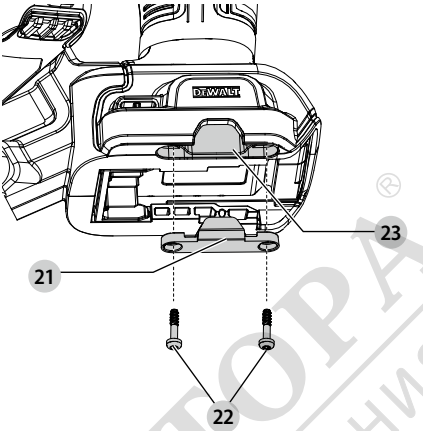


Fig. J



18V CORDLESS HAND HELD BAND SAW DCS378

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

		DCS378
Voltage	V_{DC}	18
Type		1
Battery type		Li-Ion
Max. power output	W	530
No-load speed	m/min	174
Blade length dimensions	mm	899
Blade width dimensions	mm	0.5
Blade height dimensions	mm	12.7
Max. cutting capacity	mm	86
Weight (without battery pack)	kg	3.8

Noise values and/or vibration values (triax vector sum) according to EN60745-2-20:		
L_{PA} (emission sound pressure level)	dB(A)	75
L_{WA} (sound power level)	dB(A)	86
K (uncertainty for the given sound level)	dB(A)	3

Vibration emission value $a_{h, CM}$ =	m/s^2	< 2.5
Uncertainty K =	m/s^2	1.5

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

An estimation of the level of exposure to vibration and/or noise 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 and/or noise such as: maintain the tool and the accessories, keep the hands warm (relevant for vibration), organisation of work patterns.

EC-Declaration of Conformity

Machinery Directive

CE

Hand Held Band Saw
DCS378

DEWALT declares that these products described under ***Technical Data*** are in compliance with:
2006/42/EC, EN60745-1:2009+A11:2010, EN60745-2-20:2009.

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
Vice-President Engineering, PTE-Europe
DEWALT, Richard-Klinger-Straße 11,
65510, Idstein, Germany
16.05.2023

DECLARATION OF CONFORMITY THE SUPPLY OF MACHINERY (SAFETY) REGULATIONS 2008

UK CA

Hand Held Band Saw

DCS378

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

The Supply of Machinery (Safety) Regulations, 2008, S.I. 2008/1597 (as amended),

EN60745-1:2009+A11:2010, EN60745-2-20:2009.

These also products conform to the following UK Regulations:

Electromagnetic Compatibility Regulations, 2016, S.I.2016/1091 (as amended).

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, S.I. 2012/3032 (as amended).

Batteries				Chargers/Charge Times (Minutes)***									
Cat #	V_{DC}	Ah	Weight (kg)	DCB104	DCB107	DCB112/ DCB1102	DCB113	DCB115/ DCB1104	DCB116	DCB117	DCB118	DCB132	DCB119
DCB546	18/54	6.0/2.0	1.08	60	270	170	140	90	80	40	60	90	X
DCB547/G	18/54	9.0/3.0	1.46	75*	420	270	220	135*	110*	60	75*	135*	X
DCB548	18/54	12.0/4.0	1.46	120	540	350	300	180	150	80	120	180	X
DCB549	18/54	15.0/5.0	2.12	125	730	450	380	230	170	90	125	230	X
DCB181	18	1.5	0.35	22	70	45	35	22	22	22	22	22	45
DCB182	18	4.0	0.61	60/40**	185	120	100	60	60/45**	60/40**	60/40**	60	120
DCB183/B/G	18	2.0	0.40	30	90	60	50	30	30	30	30	30	60
DCB184/B/G	18	5.0	0.62	75/50**	240	150	120	75	75/60**	75/50**	75/50**	75	150
DCB185	18	1.3	0.35	22	60	40	30	22	22	22	22	22	40
DCB187	18	3.0	0.54	45	140	90	70	45	45	45	45	45	90
DCB189	18	4.0	0.54	60	185	120	100	60	60	60	60	60	120
DCBP034/G	18	1.7	0.32	27	82	50	40	27	27	27	27	27	50
DCBP518/G	18	5.0	0.75	50	240	150	120	75	60	50	50	75	150

**Date code 201811475B or later*

***Date code 201536 or later*

****Battery charge times matrix provided for guidance only; charge times will vary depending on temperature and condition of batteries.*

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.

Karl Evans
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DEWALT UK, 270 Bath Road, Slough
Berkshire SL1 4DX
England

16.05.2023

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, instructions, illustrations and specifications provided with this power tool. *Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.*

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

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

1) Work Area Safety

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

b) ***Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.*** *Power tools create sparks which may ignite the dust or fumes.*

c) ***Keep children and bystanders away while operating a power tool.*** *Distractions can cause you to lose control.*

2) Electrical Safety

a) ***Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.*** *Unmodified plugs and matching outlets will reduce risk of electric shock.*

b) ***Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.*** *There is an increased risk of electric shock if your body is earthed or grounded.*

c) ***Do not expose power tools to rain or wet conditions.*** *Water entering a power tool will increase the risk of electric shock.*

d) ***Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.*** *Damaged or entangled cords increase the risk of electric shock.*

e) ***When operating a power tool outdoors, use an extension cord suitable for outdoor use.*** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*

f) ***If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.*** *Use of an RCD reduces the risk of electric shock.*

3) Personal Safety

a) ***Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.*** *A moment of inattention while operating power tools may result in serious personal injury.*

b) ***Use personal protective equipment. Always wear eye protection.*** *Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.*

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

d) ***Remove any adjusting key or wrench before turning the power tool on.*** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*

e) ***Do not overreach. Keep proper footing and balance at all times.*** *This enables better control of the power tool in unexpected situations.*

f) ***Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.*** *Loose clothes, jewellery or long hair can be caught in moving parts.*

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

h) ***Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.*** *A careless action can cause severe injury within a fraction of a second.*

4) Power Tool Use and Care

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

b) ***Do not use the power tool if the switch does not turn it on and off.*** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*

c) ***Disconnect the plug from the power source and/or remove the battery pack, if detachable, 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 and accessories. 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.*

h) ***Keep handles and grasping surfaces dry, clean and free from oil and grease.*** *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*

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.*

e) ***Do not use a battery pack or tool that is damaged or modified.*** *Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.*

f) ***Do not expose a battery pack or tool to fire or excessive temperature.*** *Exposure to fire or temperature above 130 °C may cause explosion.*

g) ***Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.*** *Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.*

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.*

b) ***Never service damaged battery packs.*** *Service of battery packs should only be performed by the manufacturer or authorised service providers.*

Additional Safety Rules – Portable Band Saws

- ***Hold power tool by insulated gripping surfaces when performing an operation where the cutting accessory may contact hidden wiring.*** *Cutting accessories contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.*
- ***Keep hands away from cutting area and blade.***
- ***Always make sure the portable band saw is clean before using.***
- ***Always cease operation at once if you notice any abnormality whatsoever.***
- ***Always be sure all components are mounted properly and securely before using tool.***
- ***Always handle the band saw blade with care when mounting or removing it.***
- ***Always keep your hands out of the line of the band saw blade.***
- ***Always wait until the motor has reached full speed before starting a cut.***
- ***Always keep handles dry, clean, and free of oil and grease.*** *Hold the tool firmly when in use.*
- ***Always be alert at all times, especially during repetitive, monotonous operations.*** *Always be sure of position of your hands relative to the blade.*
- ***Never remove work stop.***
- ***Stay clear of end pieces that may fall after cutting off.*** *They may be hot, sharp and/or heavy. Serious personal injury may result.*
- ***Air vents often cover moving parts and should be avoided.*** *Loose clothes, jewelry or long hair can be caught in moving parts.*

Residual Risks

The following risks are inherent to the use of band saws.

- *Injuries caused by touching the rotating parts or hot part of the tool.*

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 squeezing fingers when changing the accessory.*
- *Health hazards caused by breathing dust developed when working in wood.*
- *Risk of personal injury due to flying particles.*

Chargers

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

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 only by DEWALT or an authorised 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 (refer to ***Technical Data***). The minimum conductor size is 1 mm^2; the maximum length is 30 m. When using a cable reel, always unwind the cable completely.

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 30 mA 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.*

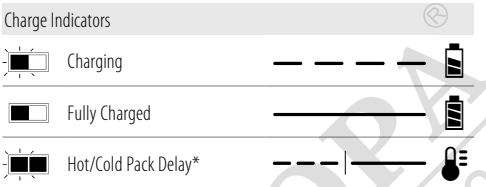
Charging a Battery (Fig. B)

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.



*****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.

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 in 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 fall below 4 ˚C (39.2 ˚F) (such as outside sheds or metal buildings in winter), or 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 persist, 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 into 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.* ***NOTE:*** *Lithium-ion batteries should not be put in checked baggage.*

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 Wh rating marked on the pack. Furthermore, due to regulation complexities, DEWALT does not recommend air shipping lithium-ion battery packs alone regardless of Wh rating. Shipments of tools with batteries (combo kits) can be air shipped as excepted if the Wh rating of the battery pack is no greater than 100 Wh.

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/marking and documentation requirements.

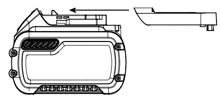
The information provided in this section of the manual is provided in good faith and believed to be accurate at the time the document was created. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with the applicable regulations.

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.

Example of Use and Transport Label Marking

Use: 108 Wh
Transport: 3x36 Wh

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 excessive 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.

Refer to ***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.

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

These battery packs may be used: DCB181, DCB182, DCB183, DCB183B, DCB183G, DCB184, DCB184B, DCB184G, DCB185, DCB187, DCB189, DCBP034, DCBP034G, DCBP518, DCBP518G. Refer to ***Technical Data*** for more information.

Package Contents

The package contains:

1 Cordless band saw
1 18 TPI variable pitch bi-metal blade
1 Kitbox
1 Charger
1 Li-Ion battery pack (C1, D1, E1, G1, H1, L1, M1, P1, Q1, S1, T1, U1, X1, Y1, Z1 models)
2 Li-Ion battery packs (C2, D2, E2, G2, H2, L2, M2, P2, Q2, S2, T2, U2, X2, Y2, Z2 models)
3 Li-Ion battery packs (C3, D3, E3, G3, H3, L3, M3, P3, Q3, S3, T3, U3, X3, Y3, Z3 models)
1 Instruction manual

NOTE: Battery packs, chargers and kitboxes are not included with N models. Battery packs and chargers are not included with NT models. B models include Bluetooth® battery packs.

NOTE: The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth®, SIG, Inc. and any use of such marks by DEWALT is under license. Other trademarks and trade names are those of their respective owners.

- *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 label on the tool may include the following pictograms:


Read instruction manual before use.


Wear ear protection.


Wear eye protection.


Visible radiation. Do not stare into light.


Do not use the hang hook as a lanyard attachment point.

Date Code Position (Fig. B)

The production date code **25** consists of a 4-digit year followed by a 2-digit week and is extended by a 2-digit factory code.

Description (Fig. A)

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

1 Lock-off button
2 Variable speed trigger switch
3 Variable speed dial
4 Main handle
5 Hex wrench
6 Work stop
7 Lock nut
8 Blade tension lever
9 Blade
10 Hang hook
11 Blade guard
12 Blade guard latches
13 Tracking screw
14 Battery pack
15 Battery release button
16 LED worklight
17 Auxiliary handle

Intended Use

This heavy-duty band saw is intended for use by professionals for cutting metal.

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

This heavy-duty band saw 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 batteries and chargers.*

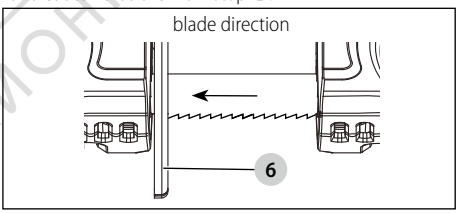
Installing and Removing Blades

CAUTION: Cut hazard. *Blade tension lever is under spring pressure. Maintain control of lever when releasing blade tension.*

WARNING: ALWAYS *wear gloves when touching the saw blade.*

To Install Blade (Fig. A, C–E)

1. Rotate the blade tension lever **8** clockwise 180 degrees until it stops to release tension in blade (refer to Figure A).
2. Turn the saw over and place it on a workbench or table.
3. Unlatch the two blade guard latches **12** and open the blade guard **11**.
4. Position the blade so that the teeth face out from the saw and cut towards the work stop **6**.



5. Slip blade into the guide rollers **19** and around both pulleys **18** as shown in Figure C.
6. Make sure that the blade is fully inserted into the guide rollers and positioned fully on the rubber tires **20** and just touching the rear guide bearings **24**.
7. Rotate the blade tension lever **8** counterclockwise until it stops and then close blade guard and secure latches. Make sure the teeth face away from the band saw (Fig. A, C).
8. Turn the saw on and off a few times to ensure that the blade is seated properly.

Work Stop Adjustment (Fig. F)

To support large workpieces, the work stop should be lowered following these steps:

1. Loosen the two screws **27**, shown in Figure F, with the hex wrench **5** provided.
2. Move the work stop **6** to the desired position.
3. Securely tighten screws **27**.

To Remove Blade (Fig. A, C–E)

1. Rotate the blade tension lever **8** clockwise 180 degrees until it stops to release tension in blade (refer to Figure A).
2. Turn the saw over and place it on a workbench or table.
3. Unlatch the two blade guard latches **12** and open the blade guard **11**.
4. When removing the blade, tension may be released and the blade may spring free. SAW BLADES ARE SHARP. USE CARE IN HANDLING THEM.
5. Inspect the guide rollers **19** and remove any large chips which may be lodged in them. Lodged chips can prevent rotation of the guide rollers and cause flat spots on the guide rollers.
6. Rubber tires **20** are mounted on the pulleys **18**. The rubber tires should be inspected for looseness or damage when changing the blade. Wipe any chips from the rubber tires on the pulleys with a brush.
   NOTE: Do not use your hands to wipe chips.
   This will extend tire life and keep the blade from slipping. If any looseness or damage occurs, the tool should be brought to an authorised DEWALT service centre for repair or replacement as soon as possible. Continued use of the tool with loose or damaged rubber tires will cause unstable travel of the band saw blade.
7. Close the blade guard and securely latch the two blade guard latches. Rotate the blade tension lever **8** counterclockwise 180 degrees until it stops.

Blade Tracking (Fig. A, G, H)

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

NOTICE: *Excessive tightening of the adjustment screws could result in damage to the saw.*

Your band saw is equipped with an adjustable blade tracking mechanism which assures proper blade tracking at all times. The blade is properly adjusted when it is sitting fully on rubber tires **20** and lightly touching one or both of the rear guide bearings **24**.

To Adjust the Blade Tracking

1. Turn and open the blade tension lever **8** to allow access to the tracking screw **13**.
2. Use a 13 mm wrench to loosen the lock nut **7** (Fig. F).
3. Use a 4 mm hex wrench **5** to turn the tracking screw **13** 1/4 turn clockwise or counterclockwise (Fig. F).
   NOTE: Turning the tracking screw clockwise(+) moves the blade toward the guide roller, turning the tracking screw counterclockwise(-) moves the blade away from the guide roller.
4. Tighten the locking nut and close the blade tension lever and blade guard. (It will be necessary to run the saw to observe the tracking.)
5. Observe blade tracking between runs and repeat Steps 1–4 as necessary to achieve proper blade tracking.

Blades

This portable band saw is set up for use with 0.5 mm wide, 12.7 mm high and 896 mm–899 mm long blades. **DO NOT** use 0.64 mm thick blades.

WARNING: *The use of any other blade or accessory might be hazardous.* ***DO NOT*** *use any other type of accessory with your band saw. Blades used on stationary band saws are of different thickness. Do not attempt to use them on your portable unit.*

Blade Selection

In general, first consider the size and shape of the work, and the type of material to be cut. Remember, for the most efficient cutting, the coarsest tooth blade possible should be used in a given application, because the coarser the tooth, the faster the cut. In selecting the appropriate number of teeth per inch of the band saw blade, at least two teeth should contact the work surface when the blade is rested against the workpiece. As a rule of thumb, soft materials usually require coarse tooth blades, while hard materials require fine tooth blades. Where a smoother finish is important, select one of the finer tooth blades.

Select the appropriate band saw blade according to the material type, dimensions, and number of teeth. See ***Bi-Metal Band Saw Blade Description*** chart.

The following table is intended as a general guide only. Determine the type of material and dimension of the workpiece and select the most appropriate band saw blade.

NOTICE: *Never use the band saw to cut resin materials which are subject to melting. Melting of resin material caused by high heat generated during cutting may cause the band saw blade to become bound to the material, possibly resulting in overload and burn-out of the motor.*

BI-METAL BAND SAW BLADE DESCRIPTION

	Number of Teeth			
Workpiece Thickness	24	18	14	14/18
3.2 mm and under	✓	✓		
3.2–6.4 mm			✓	✓

Variable Speed Trigger Switch (Fig. A, H)

Release switch lock-off button **1** by pressing button. Pull the variable speed trigger switch **2** to turn the motor ON. The variable speed trigger switch will give you added versatility. The further the trigger is depressed the higher the speed of the saw. Releasing the trigger switch turns the motor OFF.

Releasing the trigger switch also automatically actuates lock-off button.

WARNING: *This tool has no provision to lock the switch in the ON position, and should never be locked ON by any other means.*

Variable Speed Control (Fig. H)

A speed control dial **3** is located near the trigger of the saw. The speed increases as the wheel is turned from a low speed setting of 1 (67 m/min) to a high speed setting of 5 (174 m/min).

LED Worklight (Fig. A)

CAUTION: Do not stare into worklight. *Serious eye injury could result.*

There is a worklight **16** located above the blade. The worklight is activated when the trigger switch is depressed, and will automatically turn off 20 seconds after the trigger switch is released. If the trigger switch remains depressed, the worklight will remain on.

NOTE: The worklight is for lighting the immediate work surface and is not intended to be used as a flashlight.

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.*

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 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 battery 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 **26**. 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.

Proper Hand Position (Fig. I)

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.*

Hold the saw firmly with one hand on the main handle **4** and one hand on the auxiliary handle **17**.

Cutting (Fig. A, I)

Refer to ***Recommended Cutting Positions*** for recommended cutting positions for various materials.

NOTE: Select and use a band saw blade that is most appropriate for the material being cut. See ***Bi-Metal Band Saw Blade Description***.

This portable band saw may be hung using the hang hook (**10**, Fig. A). Hang tool on a pipe vise or other suitable, stable structure.

WARNING: *When using the hang hook make sure it is secure and stable before releasing it. The saw may fall resulting in serious injury to you or others.*

WARNING: *Do not use the hang hook as a lanyard attachment point.*

WARNING: *To reduce the risk of injury, only use hang hook to support the weight of the tool. Never rely on the hang hook for your own support or to help you maintain your balance.*

WARNING: *Never attempt to use this tool by resting it upside down on a work surface and bringing the material to the tool. Always securely clamp the workpiece and bring the tool to the workpiece, securely holding the tool as shown in Figure I.*

1. Material to be cut must be rigidly secure where it is or clamped in a vise or other clamping device.
2. Bring the work stop **6** into contact with the workpiece while keeping the blade off of the workpiece. Turn the saw on.
3. When saw reaches desired rotation speed, slowly and gently tilt the main body of the tool to bring the band saw blade into contact with the workpiece. Do not apply additional pressure in excess of the weight of the main body of the tool. Carefully avoid bringing the band saw blade suddenly and heavily into contact with the upper surface of the workpiece. This will cause serious damage to the band saw blade. To obtain maximum service life of the band saw blade, ensure there is no sudden impact at the beginning of the cutting operation.
4. Straight cutting can be accomplished by keeping the band saw blade aligned perpendicular to the material. Any twisting or cocking of the blade will cause the cut to go offline and decrease the life of the blade.

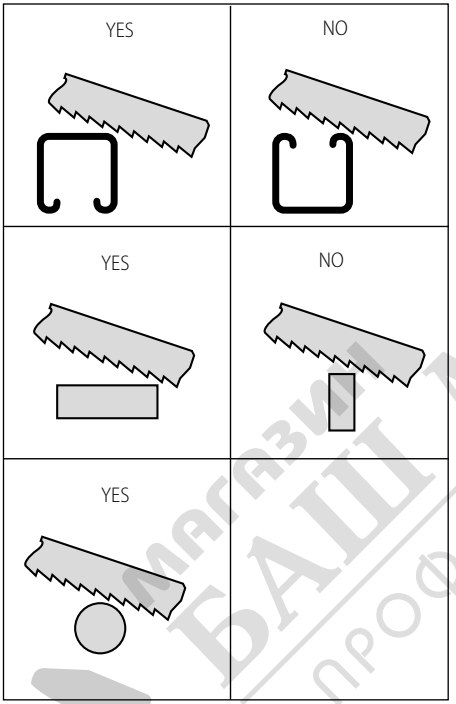
   NOTICE: *During cutting, if the band saw becomes locked or jammed in the workpiece material, release the switch immediately to avoid damage to the band saw blade and motor.*
5. The tool's own weight provides the most efficient downward cutting pressure. Added operator pressure slows the blade and reduces blade life.
6. End pieces, which would be heavy enough to cause injury when they drop, after cut-off, should be supported. Safety shoes are strongly recommended. End pieces may be hot and sharp.

Tips for Better Cutting

The following recommendations should be used as a guide (***Recommended Cutting Positions***). Results may vary with the operator and the particular material being cut.

- Never twist the band saw blade during cutting operation.
- Never use liquid coolants with portable band saws. Use of liquid coolants will cause build-up on tires and reduce performance.
- If excessive vibration occurs during the cut, ensure that the material being cut is securely clamped down. If vibration continues, change the band saw blade.
- Always keep at least 2–3 teeth engaged in the cut.

Recommended Cutting Positions



MAINTENANCE

Your 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: *Electrical shock and mechanical hazard. Disconnect the electrical appliance from the power source before cleaning.*

WARNING: *To ensure safe and efficient operation, always keep the electrical appliance and the ventilation slots clean.*

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.*

Ventilation slots can be cleaned using a dry, soft non-metallic brush and/or a suitable vacuum cleaner. Do not use water or any cleaning solutions. Wear approved eye protection and an approved dust mask.

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.

Tool Connect™ Chip (Fig. J)

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.*

Your tool is Tool Connect™ Chip ready and has a location for installation of a Tool Connect™ Chip.

Tool Connect™ Chip is an optional application for your smart device (such as a smart phone or tablet) that connects the device to utilise the mobile application for inventory management functions.

Refer to ***Tool Connect™ Chip Instruction Sheet*** for more information.

Installing the Tool Connect™ Chip

1. Remove the retaining screws **22** that hold the Tool Connect™ Chip protective cover **21** into the tool.
2. Remove the protective cover and insert the Tool Connect™ Chip into the empty pocket **23**.
3. Ensure that the Tool Connect™ Chip is flush with the housing. Secure it with the retaining screws and tighten the screws.
4. Refer to ***Tool Connect™ Chip Instruction Sheet*** for further instructions.

Transport

CAUTION: *Accidental starting during transport!*

- *Always transport your products with the batteries removed!*
- *Transport the tool and batteries individually packaged.*
- *Follow the information in the section* **Battery Packs – Transportation** *in this manual.*
- *Check the tool and batteries for damage before use after transport.*

Storage

CAUTION: *Accidental damage caused by defective or leaking batteries!*

- *Always store your products with the batteries removed!*
- *Store the tool and batteries in a place that is as cool and dry as possible.*
- *Follow the information in the section* **Battery Packs – Storage Recommendations** *in this manual.*
- *Store the tool and batteries in a place where they cannot be accessed by children or unauthorized persons.*
- *Check the tool and batteries for damage before use after long periods of storage.*

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 that 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.