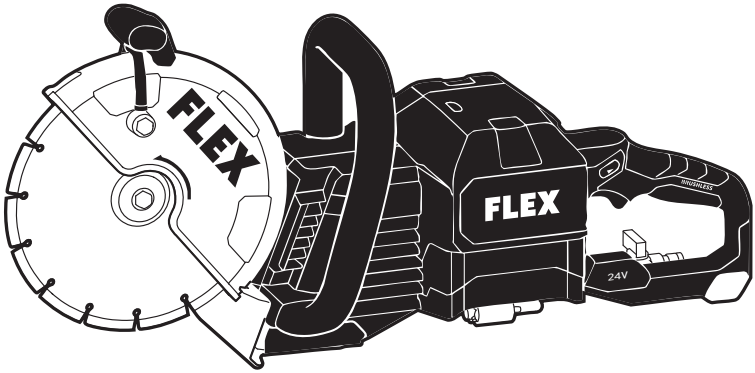
FLEX

OPERATOR'S MANUAL



Model: FXA2481

24V BRUSHLESS 230 MM HAND-HELD CUT-OFF SAW

⚠ WARNING: To reduce the risk of injury, the user must read and understand the Operator's Manual before using this product. Save these instructions for future reference.

Please contact FLEX customer service in Australia 1300 000 346 or New Zealand 0508 000 346 any time you have questions or warranty claims.

SAFETY SYMBOLS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols and the explanations with them deserve your careful attention and understanding. The symbol warnings do not, by themselves, eliminate any danger. The instructions and warnings they give are no substitutes for proper accident prevention measures.

⚠ WARNING Be sure to read and understand all safety instructions in this Operator's Manual, including all safety alert symbols such as "**DANGER**," "**WARNING**," and "**CAUTION**" before using this tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.	
	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER	DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, will result in minor or moderate injury.

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.

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.

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.

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 a 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 energizing 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 jewelry. Keep your hair, and clothing away from moving parts. Loose clothes, jewelry 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.

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.

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.

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.

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.

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.

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.

Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

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.

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.

Battery tool use and care

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.

Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

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.

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.

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

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

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.

Service

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.

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

SAFETY INSTRUCTIONS FOR ABRASIVE CUTTING-OFF OPERATIONS

Cut-off machine safety warnings

- **The guard provided with the tool must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. Position yourself and bystanders away from the plane of the rotating wheel.** The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.
- **Use only bonded reinforced or diamond cut-off wheels for your power tool.** Just because an accessory can be attached to your power tool, it does not assure safe operation.
- **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
- **Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
- **Always use undamaged wheel flanges that are of correct diameter for your selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage.
- **Do not use worn down reinforced wheels from larger power tools.** Wheels intended for a larger power tool are not suitable for the higher speed of a smaller tool and may burst.
- **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
- **The arbor size of wheels and flanges must properly fit the spindle of the power tool.** Wheels and flanges with arbor holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- **Do not use damaged wheels. Before each use, inspect the wheels for chips and cracks. If power tool or wheel is dropped, inspect for damage or install an undamaged wheel. After inspecting and installing the wheel, position yourself and bystanders away from the plane of the rotating wheel and run the power tool at maximum no load speed for one minute.** Damaged wheels will normally break apart during this test time.
- **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and shop apron capable of stopping small abrasive or workpiece fragments.** The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken wheel may fly away and cause injury beyond immediate area of operation.
- **Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring.** Cutting accessory contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- **Never lay the power tool down until the accessory has come to a complete stop.** The spinning wheel may grab the surface and pull the power tool out of your control.
- **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- **Regularly clean the power tool’s air vents.** The motor’s fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

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

Further safety instructions for abrasive cutting-off operations

KICKBACK AND RELATED WARNINGS:

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

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.
- **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
- **Do not position your body in line with the rotating wheel.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- **Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- **Do not attach a saw chain, woodcarving blade, segmented diamond wheel with a peripheral gap greater than 10 mm or toothed saw blade**. Such blades create frequent kickback and loss of control.
- **Do not "jam" the wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.
- **When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the wheel from the cut while the wheel is in motion otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of wheel binding.
- **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut.** The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
- **Support panels or any oversized workpiece to minimise the risk of wheel pinching and kickback. Large workpieces tend to sag under their own weight.** Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.
- **Use extra caution when making a "pocket cut" into existing walls or other blind areas.** The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.

SYMBOLS

IMPORTANT: Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

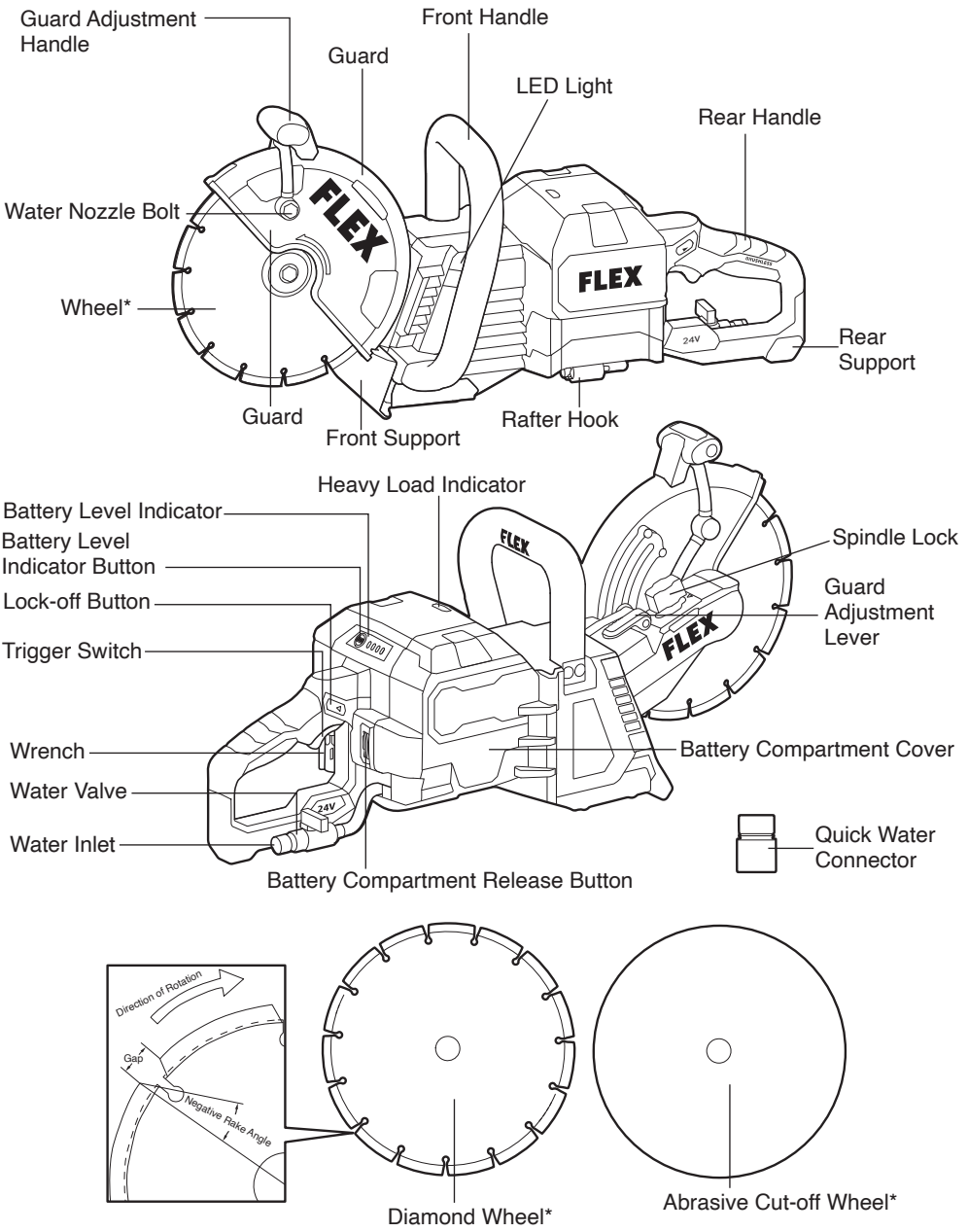
Symbol	Name	Designation/Explanation
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
kg	Kilograms	Weight
min	Minutes	Time
s	Seconds	Time
Wh	Watt-hours	Battery capacity
Ah	Ampere-hours	Battery capacity
ø	Diameter	Size of drill bits, grinding wheels, etc.
n_0	No load speed	Rotational speed, at no load
n	Rated speed	Maximum attainable speed
…/min	Revolutions or reciprocations per minute (rpm)	Revolutions, strokes, surface speed, orbits, etc. per minute
O	Off position	Zero speed, zero torque...
1,2,3,… I,II,III,	Selector settings	Speed, torque, or position settings. Higher number means greater speed
	Infinitely variable selector with off	Speed is increasing from 0 setting
	Arrow	Action in the direction of arrow
	Alternating current (AC)	Type or a characteristic of current
	Direct current (DC)	Type or a characteristic of current
	Alternating or direct current (AC / DC)	Type or a characteristic of current
	Class II tool	Designates Double Insulated Construction tools.
	WEEE	Waste electrical products should not be disposed of with household waste. Take to an authorised recycler.

Symbol	Name	Designation/Explanation
	Read the instructions	Alerts user to read manual
	Wear eye protection symbol	Alerts user to wear eye protection
	Regulatory compliance mark	This product complies with applicable Australian standards.

FUNCTIONAL DESCRIPTIONS AND SPECIFICATIONS

Hand-Held Cut-Off Saw

Fig. 1



Diamond wheel*: maximum peripheral gap between segments is 10 mm, only with a negative rake angle.

*** NOT STANDARD INCLUDED**

SPECIFICATIONS

Model No.	FXA2481
Rated Voltage	24 V d.c.
No-load Speed	6600 RPM
Wheel Type	Diamond Wheel Type 41 Abrasive Cut-off Wheel
Permitted Max. Wheel Thickness	3 mm
Wheel Diameter	230 mm
Wheel Arbor Hole	22 mm
Max. Cutting Depth	86 mm
Recommended ambient operating temperature	-20 – 40 °C
Recommended storage temperature	< 50 °C

Intended Use

The tool is intended for professional cutting applications. Wet cutting in masonry, concrete, red bricks, hollow bricks, cement blocks, etc. using diamond wheel. Dry cutting in metals such as steel bars, steel pipes, and channel steels using abrasive cut-off wheel.

⚠ WARNING **Detach the battery pack from the tool before making any assembly, adjustments or changing accessories.** Such preventive safety measures reduce the risk of starting the tool accidentally.

TO ATTACH/DETACH BATTERY PACK (FIG. 2a-2b)

To attach the battery pack:

a. Press the battery compartment release button and the battery compartment cover will automatically pop open.

b. Align the raised rib on the battery pack with the grooves inside the saw's battery compartment, and then slide the battery pack into the battery compartment.

NOTICE When placing the battery pack onto the tool, be sure that the raised rib on the battery pack aligns with the groove inside the tool and that the latches snap into place properly. Improper attachment of the battery pack can cause damage to internal components.

To detach the battery pack:

a. Depress the battery-release button located on the front of the battery pack to release the battery pack. Pull the battery pack out and remove it from the tool.

b. Close the battery compartment cover after detaching the battery pack.

NOTICE To prevent battery compartment damage and contamination, always close the battery compartment cover.

⚠ WARNING **Do not attempt to modify this tool or create accessories not recommended for use with this tool.** Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury.

Fig. 2a

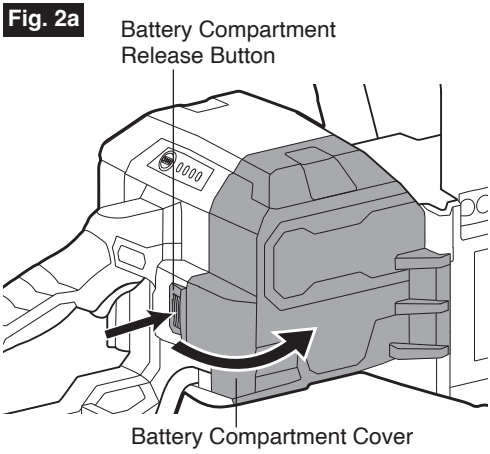
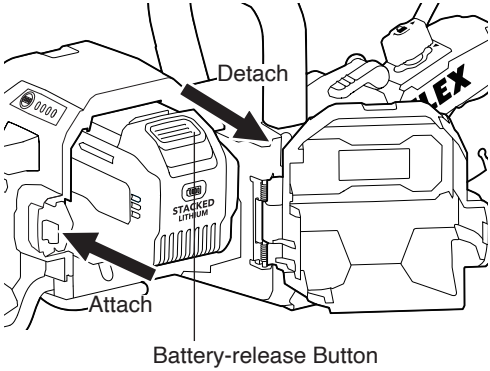


Fig. 2b



TO ATTACH AND DETACH THE WHEEL (FIG. 3a-3b)

⚠ WARNING To reduce the risk of injury, use only the proper wheel made for this tool. Do not use any type of saw blade. Use only type “41” abrasive cut-off wheel or diamond wheel.

⚠ WARNING Detach the battery pack from the tool before performing any assembly, adjustments, or changing accessories. Such preventive safety measures reduce the risk of starting the tool accidentally.

To attach the wheel

a. Detach the battery pack.

b. Lay the saw on a firm surface, with the spindle bolt facing upward.

c. Turn the spindle lock 90° clockwise to lock the spindle shaft.

d. Turn the spindle bolt counterclockwise with included 13 mm wrench. Remove the spindle bolt and the outer flange. The inner flange does not need to be removed, unless it requires cleaning.

e. Fit the wheel inside the guard and onto the spindle. Make sure that the arrow on the wheel point in the same direction as the arrow on the guard.

f. Reinstall the outer flange and spindle bolt. Tighten the spindle bolt securely by turning it clockwise with the wrench.

NOTE: When installing the flange, refer to Fig. 3b and do not install the flange in the wrong direction.

g. Turn the spindle lock 90° counterclockwise so that the triangle on the spindle lock is aligned with the triangle on the housing to unlock the spindle shaft.

h. Make sure the wheel is properly centred and does not hit the guard. The spindle bolt and flanges should be tight.

To detach the wheel

a. Detach the battery pack.

b. Lock the spindle shaft.

c. Use the wrench to loosen the spindle bolt.

d. Remove the spindle bolt, outer flange, and finally the wheel.

Fig. 3a

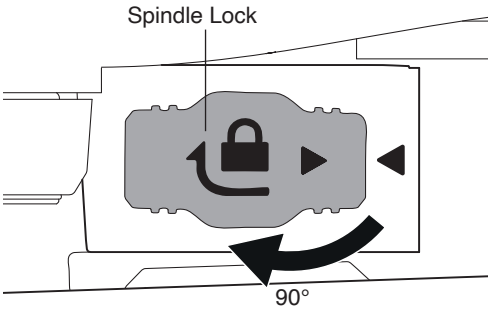
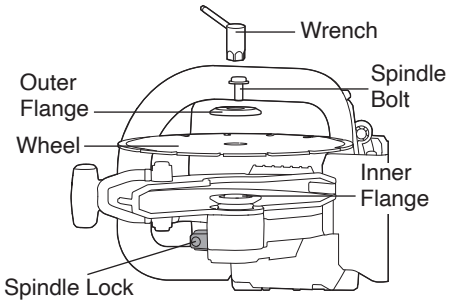


Fig. 3b



TO ATTACH THE WATER SUPPLY (FIG. 4a-4e)

⚠ WARNING **Wet cutting method is to be used only with a diamond wheel.**

⚠ WARNING Close the battery compartment cover and securely latch it closed before using any water.

⚠ WARNING **Never use the saw overhead.** When using water, limit cutting to the horizontal position to reduce the risk of water entering the tool.

⚠ WARNING Maximum supplied water pressure not to exceed 90 PSI.

NOTICE Before using the wet cut method, make sure water will not damage the material being cut or surrounding property.

a. Make sure that the water supply is turned off and the water valve is closed.

b. Connect the water supply to the quick water connector by threading the quick water connector clockwise to the end of the water supply.

c. Slide the quick water connector over the water inlet until the quick water connector clicks into place.

NOTE: If the quick water connector is not pushed firmly to the water inlet, it may leak.

d. To regulate the water flow, slowly rotate the water valve towards to open position until desired flow is reached. To stop the flow of water, rotate the water valve to the closed position.

e. After finishing your cuts, run the saw for a few seconds with the water valve closed to remove any residual water from the cutting wheel.

f. To disconnect the water supply, pull and hold the outer sleeve of the quick water connector backward and remove it from the water inlet.

After a period of use, the water nozzle may be clogged.

Use the wrench to remove the water nozzle bolts on both sides of the guard and clean the water nozzle (Fig. 4e).

Fig. 4a

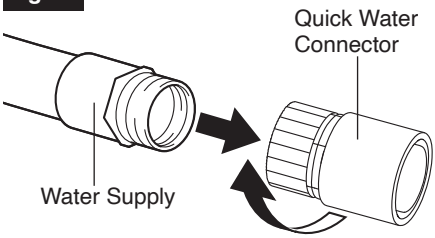


Fig. 4b

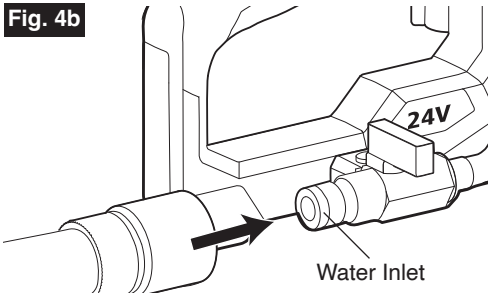


Fig. 4c

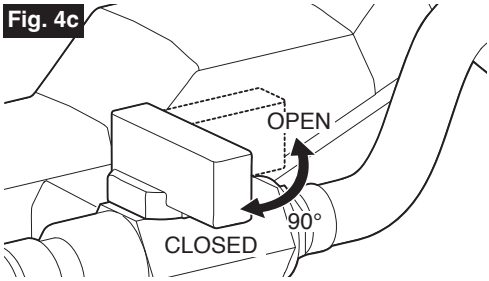


Fig. 4d

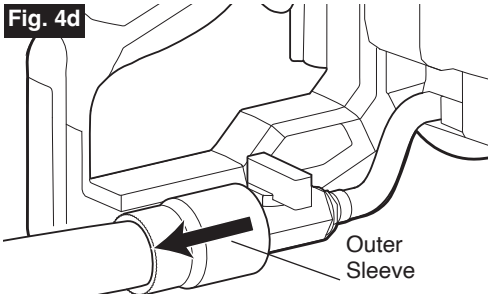
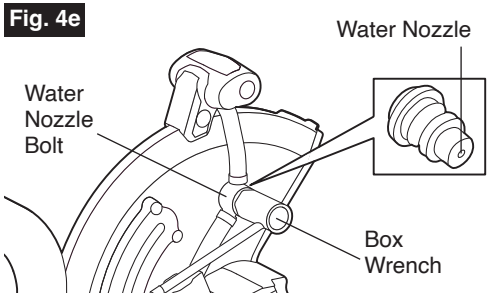


Fig. 4e



ADJUSTMENTS

GUARD ADJUSTMENT (FIG. 5)

⚠ WARNING **Do not use guard handle to hold tool while cutting.**
Guard adjustment handle is only used for adjustment of the guard while tool is not in use.

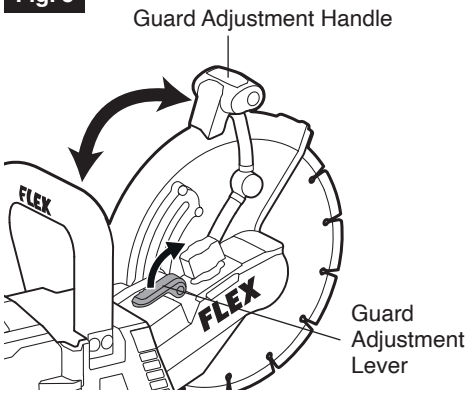
⚠ WARNING Always make sure the guard is properly engaged before starting the cut-off saw.

⚠ WARNING **Guard may be hot.** Use guard handle to rotate guard.

⚠ WARNING **After long-term use, the temperature of the gear box may become high. Be careful not to touch it.**

a. Remove the battery pack from the cut-off saw.
b. Push the guard adjustment lever up.
c. Grasp the guard adjustment handle firmly and adjust the guard to ensure the operator with maximum protection while operating.
d. Press the guard adjustment lever down to lock the guard in place.

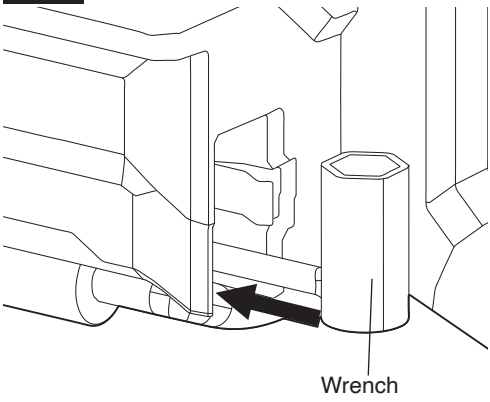
Fig. 5



WRENCH STORAGE (FIG. 6)

When not in use, store the 13 mm wrench as shown in the Fig. 6 to keep it from being lost.

Fig. 6



RAFTER HOOK (FIG. 7)

Your tool is equipped with a rafter hook. Use the hook to hang the cut-off saw from a rafter or beam, or other similar secure structure for temporary storage during work breaks.

The rafter hook can be rotated 90°.

To use, rotate the hook until it snaps into the open position.

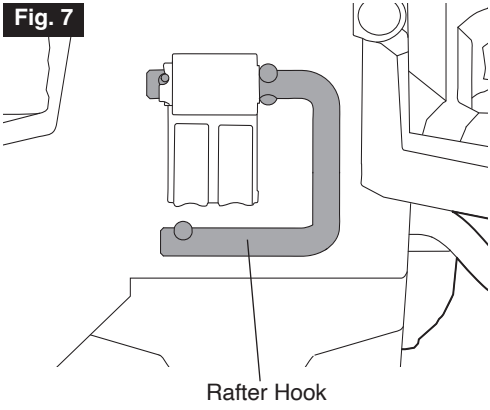
When not in use, always push the hook until it snaps into the closed position.

⚠ WARNING **When the saw is hung by the hook, do not shake the saw or the object that it is hanging from. Do not hang the saw from any electrical wires. Make sure that the structure used to hang the saw is secure.** Personal injury or property damage may occur.

⚠ WARNING **Only use the hook for hanging the saw.** Using the hook to hang anything else could lead to serious injury.

⚠ WARNING **Do not use the hook to reach another object or use the hook to support your weight in any situation.**

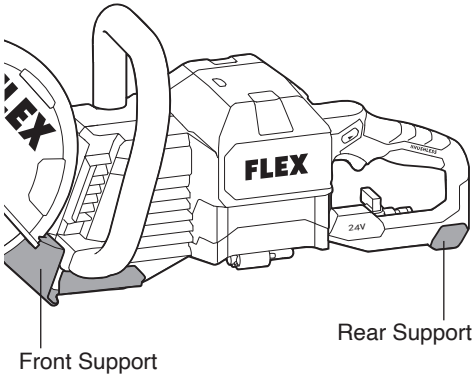
Fig. 7



FRONT AND REAR SUPPORT (FIG.8)

The front and rear support can be used to hold tools in position, serving as a fulcrum during operation to reduce the required force and prevent excessive tool wear. Additionally, it acts as a barrier to block splashing mud and metal chips from reaching the operator.

Fig. 8



⚠ WARNING To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your charger or battery pack in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach-containing products, etc. can cause a short circuit.

⚠ WARNING If any parts are damaged or missing, do not operate this product until the parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.

⚠ WARNING To prevent accidental starting that could cause serious personal injury, always remove the battery pack from the tool when assembling or adjusting parts.

⚠ WARNING Burn hazard due to contact with exterior metal surfaces. WEAR GLOVES!

⚠ WARNING Always wear eye protection. Eye protection does not fit all operators in the same way. Make sure the eye protection chosen has side shields or provides protection from flying debris both from the front and sides.

⚠ WARNING Do not plunge cut or pocket cut with this saw.

This hand-held cut-off saw must be used only with the FLEX 24V series battery packs and chargers.

Due to the high performance of this hand-held cut-off saw, it is recommended to use with the following battery packs:

Recommended battery pack	
10.0Ah Stacked Lithium	12.0Ah Lithium
FXA0341	FXA0231

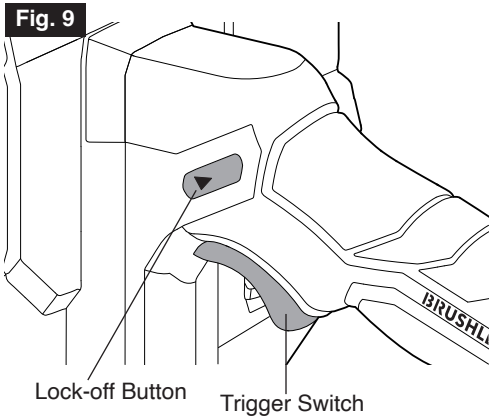
NOTICE: Please refer to the battery pack and charger manuals for detailed operating information.

SWITCHING THE TOOL ON AND OFF (FIG. 9)

To turn the tool “ON”, press and hold the lock-off button, then squeeze the trigger switch. Release the lock-off button and continue to squeeze the trigger for continued operation.

To turn the tool “OFF”, release the trigger switch.

Fig. 9



LED LIGHT (FIG. 10)

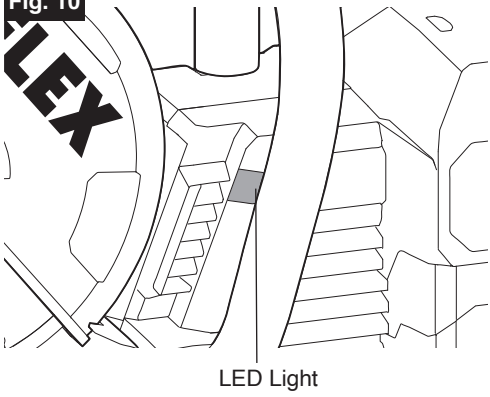
Your tool is equipped with an LED light. This provides additional light on the wheel and the surface of the workpiece for operation in lower-light areas.

The LED light will automatically turn on with a slight squeeze of the trigger switch before the tool starts running. It will turn off approximately 10 seconds after the trigger switch is released.

a. When the tool and/or battery pack becomes overloaded or too hot, the internal sensors will turn the tool off. If the tool and/or battery pack are overloaded, the LED light will rapidly flash. Rest the tool for a while or place the tool and battery pack separately under air flow for cooling.

b. The LED light will flash more slowly to indicate that the battery pack charge is at low capacity. Recharge the battery pack.

Fig. 10



c. If the LED does not turn on when you start the tool, or it turns off suddenly during operation, please contact customer service or an authorised service centre for assistance.

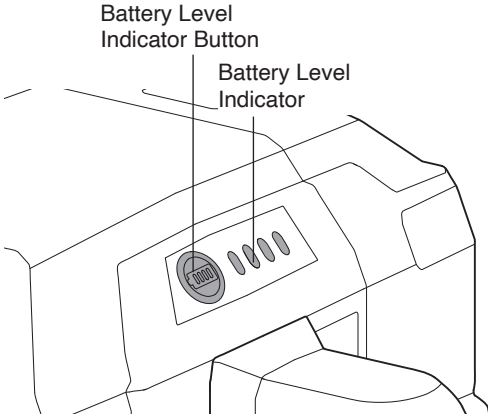
BATTERY LEVEL INDICATOR (FIG. 11)

This tool features a battery level indicator that displays the battery charge level. Press the battery level indicator button and the LEDs will light up to communicate the battery pack charge level.

If one LED on the power indicator begins to flash, the battery pack charge is under 10% capacity and should be recharged. The power delivered to the tool will drop quickly when the battery pack is at the end of its run time and needs to be charged. When the battery pack is completely discharged, the power indicator will begin to display four flashing LEDs.

When this happens, remove the tool from the workpiece and charge the battery pack as needed.

Fig. 11



OVER-TEMPERATURE

The first and third LEDs on the power indicator will rapidly flash green to warn of the over-temperature condition. The battery pack will begin normal operation after it has cooled down.

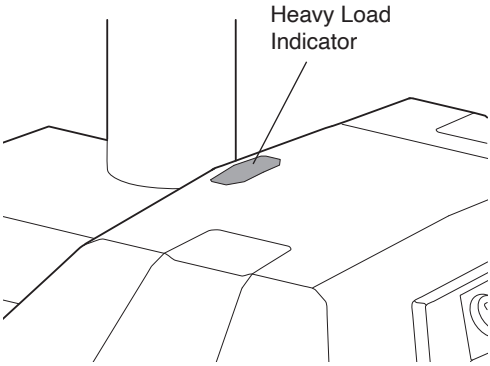
HEAVY LOAD INDICATOR (FIG. 12)

The heavy load indicator will illuminate as a warning when the tool experiences an excessive load.

The cutting load should be reduced so that the heavy load indicator light is extinguished.

When practical, allow the tool to rest when the heavy load indicator is illuminated.

Fig. 12



REDUCING THE RISK OF KICKBACK (FIG. 13)

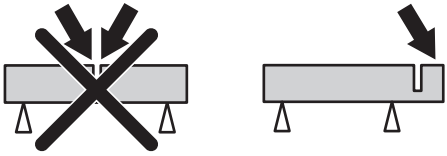
⚠ WARNING **Reactive forces may occur at any time the cutting wheel is in motion.**

Always support the workpiece so that the cut remains open to avoid pinching of the wheel, which increases the risk of kickback

This tool includes an electronic overload protection that will automatically shut the tool off in the event of a sudden load, including some kickback events. To restart the tool, ensure the switch is in the OFF position, remove any obstruction related to the wheel, then reinitiate the starting sequence per the section titled **SWITCHING THE TOOL ON AND OFF** contained within this instruction manual.

⚠ WARNING **The overload protection features of this tool do not prevent kickback.** Read and understand all warnings and instructions related to preventing kickback found within this instruction manual.

Fig. 13



PROPER HAND POSITION (FIG. 14)

⚠ 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.

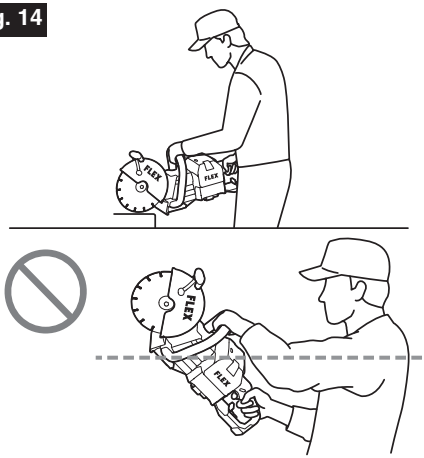
⚠ WARNING Never use the cut-off saw with one hand. Always grip the cut-off saw firmly with both hands.

⚠ WARNING Make sure the handles and grips of your cut-off saw are secure and free of grease and/or moisture.

Proper hand position for both left and right handed operators requires your right hand on the rear handle and your left hand on the front handle.

During operation, do not bring the tool higher than your shoulder height.

Fig. 14



MAKING A CUT (FIG. 15)

⚠ WARNING Always make sure the guard is in place and set for the type of cut you are making.

⚠ WARNING When using the cut-off saw, make sure the operator and bystanders are not endangered by potential airborne particles of material being cut, sparks, or pieces of damaged cutting wheels.

⚠ WARNING To reduce the risk of serious or fatal injury, DO NOT change direction during the cut. A change in direction may produce a high torsional load on the cutting wheel and cause it to bind or break.

⚠ WARNING Do not use in the presence of flammable liquids or gases.

⚠ WARNING Do not let children come into contact with the tool.

⚠ CAUTION Wear gloves when cutting metal.

⚠ CAUTION Do not touch the wheel or material immediately after operation, as they may become hot and may cause burns.

a. Ensure that the wheel guard is in a position to provide maximum protection for the operator.
b. Mark a cutting line on the material to be cut.
c. Firmly grip the cut-off saw using both the front handle and the rear handle.
d. Line up wheel with cutting line. Be sure nothing is near or in line with the wheel.

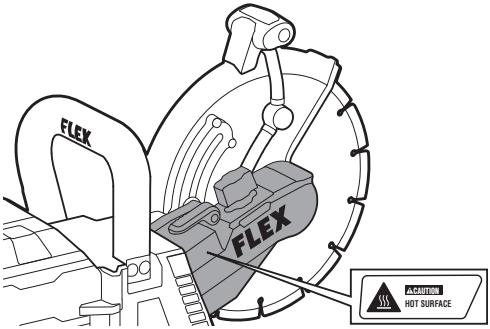
NOTE: If wet cutting, turn on the supply water and the water valve on the cut-off saw. if cutting metal, make sure the water valve remains in the closed position.

e. Switch on the tool and wait for the wheel to reach full speed.
f. Slowly feed wheel into work with firm pressure, working along the cutting line. Do not force the tool. Cut only as deep as needed to reduce the amount of dust produced. For maximum efficiency and wheel life, keep the wheel speed high. To maintain control of the cut-off saw, release pressure as you near the end of your cut.
g. Switch off the tool and make sure the wheel has come to a complete stop before setting the cut-off saw down.
h. If wet cutting, turn off the water valve on the cut-off saw and the supply water.

NOTE: The maximum depth of cut of each pass should not exceed 86 mm.

⚠ WARNING After the machine is heavy load used continuously, the gearbox and surrounding parts (guard adjustment lever and spindle lock) will be very hot. Please wait until the machine cools down or wear gloves before making adjustments.

Fig. 15



MAINTENANCE

Service

⚠ WARNING **Preventive maintenance performed by unauthorised personnel may result in misplacing of internal wires and components which could cause a serious hazard.** We recommend that all tool service be performed by a FLEX Factory Service Centre or Authorised FLEX Service Station.

General Maintenance

⚠ WARNING **When servicing, use only identical replacement parts. Use of any other parts could create a hazard or cause product damage.** Periodically inspect the entire product for damaged, missing, or loose parts such as screws, nuts, bolts, caps, etc. Tighten securely all fasteners and caps and do not operate this product until all missing or damaged parts are replaced. Please contact customer service or an authorised service centre for assistance.

⚠ WARNING To avoid serious personal injury, always remove the battery pack from the charger/tool when cleaning or performing any maintenance.

Cleaning

The tool may be cleaned most effectively with compressed dry air.

⚠ WARNING **Always wear safety goggles when cleaning tools with compressed air.** Ventilation openings and switch levers must be kept clean and free of foreign matter. Do not attempt to clean by inserting pointed objects through openings.

⚠ WARNING **Certain cleaning agents and solvents damage plastic parts.** Some of these are: gasoline, carbon tetrachloride, chlorinated cleaning solvents, ammonia and household detergents that contain ammonia.

Storage

Store the tool indoors in a place that is inaccessible to children. Keep away from corrosive agents.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Wheel does not rotate	▪ Trigger switch is not turned on	▪ Press and hold the lock-off button, then squeeze the trigger switch.
	▪ The battery pack is not attached properly.	▪ Reattach the battery pack
	▪ Battery pack has low charge level.	▪ Charge the battery pack.
	▪ Other	▪ Have the saw reviewed by a FLEX Factory Service Centre or Authorised FLEX Service Station.
The wheel cannot be installed or locked properly	▪ The outer flange or inner flange is not installed.	▪ Install the outer or inner flange according to the section titled "**TO ATTACH AND DETACH THE WHEEL**"
	▪ Use improper wheel	▪ Use only type "41" abrasive cut-off wheel or diamond wheel.
The guard cannot be adjusted	▪ The guard adjustment lever is not released.	▪ Adjust the guard according to the section titled "**GUARD ADJUSTMENT**"
Abnormal sound	▪ The wheel is not locked	▪ If the sound is still abnormal after re-locking the saw blade, do not continue to use it and Have the saw reviewed by a FLEX Factory Service Centre or Authorised FLEX Service Station.
The wheel is hard to cut the material	▪ The wheel is dull	▪ Replace a new wheel
The saw is obviously damaged	▪ Abnormal damage during transportation or use.	▪ Do not continue to use and have the saw reviewed by a FLEX Factory Service Centre or Authorised FLEX Service Station.

WARRANTY STATEMENT

Chervon Australia Pty Ltd (ABN 36 165 077 501) of Unit 14,5 Kelletts Road, Rowville, Victoria, 3178, and Chervon New Zealand Subsidiary Ltd (NZBN 9429049277616) (**Chervon)** provides the following warranty (**Warranty**) to original domestic purchasers in Australia and New Zealand as applicable (**Customers**) of its FLEX 24V Tools, FLEX 24V Batteries and Chargers and FLEX STACK PACK™ Storage System (collectively **Products**).

The benefits of this Warranty are in addition to any rights and remedies imposed by Australian State and Federal or New Zealand legislation that cannot be excluded. Nothing in this Warranty is to be interpreted as excluding, restricting or modifying any legislation relevant to the supply of goods and services in Australia or New Zealand, as applicable, which cannot be excluded, restricted or modified.

In Australia, if the claimant is a "consumer" under the *Australian Consumer Law,* Chervon confirms the following:

Our goods come with guarantees that cannot be excluded under the *Australian Consumer Law*. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

WARRANTY

Chervon warrants that, subject to the terms of this Warranty and the exclusions and limitations contained herein, the Products will be free from defects in materials and workmanship for the following period, as applicable, calculated from the date of purchase of the Product (**Warranty Period**):

- If the Customer registers its purchase of the Product online at www.flex-tools.com.au in Australia or www.flex-tools.co.nz in New Zealand within 30 days of the date of its purchase (**Registration**), the Warranty Period for the following Products is as follows
  - FLEX 24V Tools: 5 years;
  - FLEX 24V Batteries and Chargers: 5 years;
  - FLEX STACK PACK™ Storage System: 1 year;
  - FLEX Accessories & Consumables: 90 Days
- If the Customer fails to complete Registration as outlined above, the Warranty Period for the following Products is as follows:
  - FLEX 24V Tools: 3 years;
  - FLEX 24V Batteries and Chargers: 3 years;
  - FLEX STACK PACK™ Storage System: 1 year;
  - FLEX Accessories & Consumables: 90 Days

For further clarification and avoidance of doubt please refer to the FLEX product warranty table included below.

If, before the end of the Warranty Period, a defect appears in the manufacture or assembly of a Product, and Chervon finds the Product to be defective in materials or workmanship, it will, in its sole discretion, either:

- replace or repair the Product or the defective part of the Product free of charge; or
- cause the Product or the defective part of the Product to be replaced or repaired free of charge.

Chervon reserves the right to replace a defective Product or part of a Product with parts and components of similar quality, grade and composition where an identical part or component is not available. Where the product is repaired, Chervon may use refurbished parts.

WARRANTY CLAIMS

1. If a defect covered by Warranty appears, you must first contact Chervon:
   (a) by telephone on 1300 000 346 (AU); or 0508 000 346 (NZ); or
   (b) by email at support@flex-tools.com.au.
2. Any Warranty claim must be accompanied by:
   (a) proof of purchase;
   (b) full details of the alleged defect;
   (c) photo evidence of the alleged defect; and
   (d) any other relevant documents.
3. You must allow Chervon or its authorised agent to inspect and test the Product. If that inspection and test finds no defect in the Product, you must pay Chervon's usual service and testing costs.
4. Unless otherwise agreed in writing by Chervon, you must pay the cost of transporting the Product to and from Chervon or Chervon's authorised agent and any related insurance cost. Any handling and transportation costs (and other expenses incurred in claiming this warranty) are not covered by this warranty and will not be borne by Chervon.
5. The replacement product or part, or repaired product will be made available for your collection at an address nominated by Chervon.
6. Customers are responsible for the care and cleaning of their product prior to sending it to back to Chervon or its nominated authorised repair agents. Any product being sent for repair must be cleaned. It is an Occupational/Work Health and Safety risk for our staff or authorised repairers to inspect, repair or service a product that has come into contact with a hazardous substance.
7. If Chervon or its authorised repair agent is to inspect, repair or service a product that has come into contact with a hazardous substance such as asbestos, silica dust or other hazardous substance then we may not be able to inspect, service or repair the product. If this is the case, Chervon reserves the right to refuse repair under these circumstances and will inform the customer and the product will be returned at the customer's expense.

EXCLUSIONS

The Warranty does not apply if:

(a) the Product is not supplied in its final shape and form by Chervon or an authorised FLEX Dealer, which can be confirmed on the website store locator (for avoidance of doubt, third party online stores such as eBay, Gumtree, Amazon, etc. are excluded);

(b) the Product is altered, modified or repaired by a party other than Chervon or its agent;

(c) the Product is used other than for its designed purpose;

(d) the Product is used for rental purposes

(e) the Product is used or installed other than in accordance with Chervon's instructions;

(f) the Product has not been maintained or protected in accordance with Chervon's instructions;

(g) the Product has been subject to abnormal conditions;

(h) the product suffers normal deterioration of the exterior finish, including but not limited to scratches, dents, paint chips, or to any corrosion or discolouring by heat, abrasive and chemical cleaners.

(i) the Product is involved in an accident;

(j) Chervon cannot find any defect in the Product after testing, inspection and assessment;

(k) the alleged defect is due to abuse, misuse, neglect (including failure to clean) or accident;

(l) the alleged defect is due to a failure to properly maintain or use the Product;

(m)the alleged defect in the Product is within acceptable industry standards or tolerances; or

(n) the alleged defect is due to a request to customise the Product.

(o) the alleged defect is due to normal wear and tear, misuse or abuse (including overloading of the product beyond capacity and exposure to water or rain)

(p) The alleged defect has been used or caused due to continuous industrial use

The Warranty does not extend to:

(a) damage or defects caused by normal wear and tear;

(b) the Products being damaged by you or a third party;

(c) accidental or wilful damage, or misuse; or

(d) theft or vandalism.

This Warranty does not extend to other accessories or attachments.

LIMITATIONS

Chervon makes no express warranties or representations other than as set out in this document. Chervon will not be liable to you or any other person in connection with this Warranty for any:

(a) consequential or indirect loss, damage or costs incurred by you or any other person; or

(b) damage to property, loss of turnover, loss of profits, loss of business or loss of good will.

CONTACT

For Warranty Service or to make a claim please contact Chervon on the details below between the hours of Monday to Friday 9:00am to 5:00pm AEST/NZST (as applicable)
Chervon Australia Pty Ltd

Unit 14, 5 Kelletts Rd, Rowville, VIC. 3178.

Ph Australia; 1300 000 346. Email: support@flex-tools.com.au

Chervon New Zealand Subsidiary Ltd

4th Floor, Smith & Caughey Building, 253 Queen St, Auckland, 1141.

Ph New Zealand; 0508 000 346. Email: support@flex-tools.com.au

WARRANTY TYPE	**LIMITED STANDARD WARRANTY PERIOD**	**LIMITED EXTENDED WARRANTY PERIOD**
CONDITIONS	Without Registration / OR Registration after 30 days from date of purchase	Registration within 30 days from date of purchase
FLEX 24V Power Tools	3 Years	5 Years
FLEX 24V Chargers	3 Years	5 Years
FLEX 24V Lithium-ion Batteries	3 Years	5 Years
FLEX Accessories & Consumables	90 Days	
FLEX STACK PACK™ Storage System	1 Year	

*Original purchaser must register the product(s) within 30 days of purchase and retain their receipt as proof of purchase. This warranty applies only to the original purchaser from an authorised FLEX dealer and may not be transferred. If original purchaser does not register their product within 30 days, the warranty will apply for the duration set out in table above in column “LIMITED STANDARD WARRANTY PERIOD”. For avoidance of doubt please refer to warranty table above and full warranty details in this manual or on our website at www.flex-tools.com.au