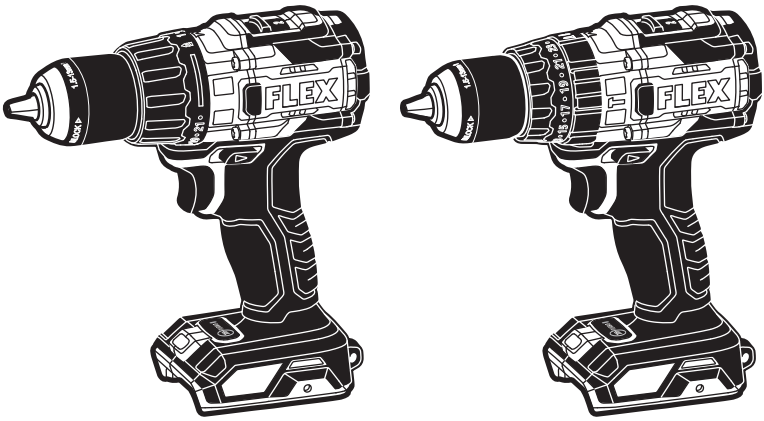
FLEX

OPERATOR'S MANUAL



Model: FXA1171T / FXA1271T

24V BRUSHLESS DRILL DRIVER / HAMMER DRILL

⚠ **WARNING: To reduce the risk of injury, the user must read and understand the Owner'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 Owner'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 authorized service providers.

SAFETY WARNINGS FOR DRILL DRIVER

- **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fastener may contact hidden wiring.** The cutting accessory or fastener contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- **Use auxiliary handle(s).** Loss of control can cause personal injury.
- **Secure the work piece.** Clamping devices or a vise will hold the work piece in place better and more safely than holding it by hand.
- **Do not drill, fasten or break into existing walls or other blind areas where electrical wiring may exist.** If this situation is unavoidable, disconnect all fuses or circuit breakers feeding this worksite.
- **Position yourself to avoid being caught between the tool or side handle and walls or posts.** Should the bit become bound or jammed in the work, the reaction torque of the tool could crush your hand or leg.
- **Always wait until the machine has come to a complete stop before placing it down.** The tool insert can jam and lead to loss of control over the power tool.
- **When working with the power tool, always hold it firmly with both hands and assume a secure stance.** The power tool is guided more securely with both hands.

SAFETY WARNINGS FOR HAMMER DRILL

Safety instructions for all operations:

- **Wear ear protectors when impact drilling.** Exposure to noise can cause hearing loss.
- **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fastener may contact hidden wiring.** cutting accessory or fasteners contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- **Secure the work piece.** Clamping devices or a vise will hold the work piece in place better and more safely than holding it by hand.
- **Do not drill, fasten or break into existing walls or other blind areas where electrical wiring may exist. If this situation is unavoidable, disconnect all fuses or circuit breakers feeding this worksite.**
- **Position yourself to avoid being caught between the tool and walls or posts.** Should the bit become bound or jammed in the work, the reaction torque of the tool could crush your hand or leg.
- **Use auxiliary handle(s).** Loss of control can cause personal injury.

Safety instructions when using long drill bits:

- Never operate at higher speed than the maximum speed rating of the drill bit. At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- Always start drilling at low speed and with the bit tip in contact with the workpiece.
- At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- Apply pressure only in direct line with the bit and do not apply excessive pressure. Bits can bend causing breakage or loss of control, resulting in personal injury.

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.

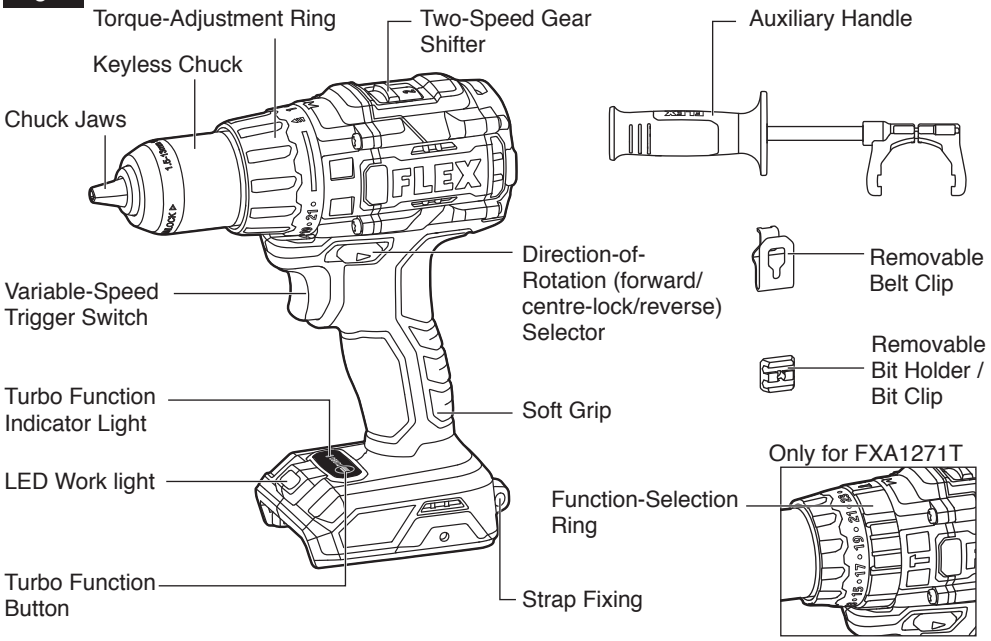
Symbol	Name	Designation/Explanation
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
kg	Kilograms	Weight
min	Minutes	Time
s	Seconds	Time
Wh	Watt-hours	Battery capacity
Ah	Ampere-hours	Battery capacity
ø	Diameter	Size of drill bits, grinding wheels, etc.
n_0	No load 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
0 ◢	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.
	Disposal information for the old machine	Do not throw electric power tools into the household waste!
	Read the instructions	Alerts user to read manual

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

FUNCTIONAL DESCRIPTION AND SPECIFICATIONS

Drill Driver / Hammer Drill

Fig. 1



Model No.	FXA1171T	FXA1271T
Rated Voltage	24 V d.c.	
Chuck Capacity	Φ13 mm	
No-load Speed	0-550/2000 rpm	
TURBO Speed	0-700/2500 rpm	
Impact Rate	/	0-8800/32000 bpm
TURBO Impact Rate	/	0-11200/40000 bpm
Maximum Torque	158 Nm	158 Nm
Clutch Settings	22+	24+ +
Recommended Operating Temperature	-20 – 40°C	
Recommended Storage Temperature	< 50°C	

Intended Use

The brushless drill driver/hammer drill is intended for drilling holes, drilling wood, drilling metal, driving screws and drilling masonry (this only for FXA1271T).

ASSEMBLY

⚠ 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.

⚠ 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.

TO ATTACH/DETACH BATTERY PACK (FIG. 2)

Lock the variable-speed trigger switch OFF on the tool by placing the direction-of-rotation (forward/centre-lock/reverse) selector in the centre position before attaching or detaching the battery pack.

To attach the battery pack:

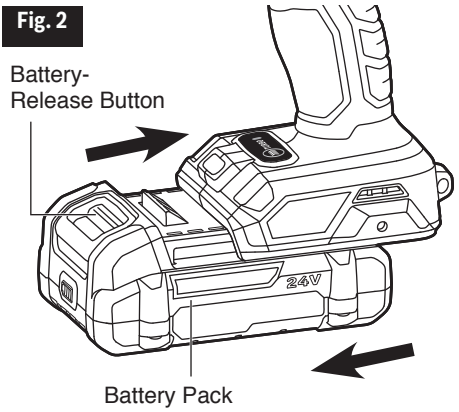
Align the raised rib on the battery pack with the grooves in the tool, and then slide the battery pack onto the tool.

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:

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.

Fig. 2



INSTALL AND REMOVE BITS

⚠ WARNING **Do not turn on the tool while grasping chuck to loosen or tighten the chuck jaws on the bit.** Friction burn or hand injury is possible if attempting to grasp the spinning chuck.

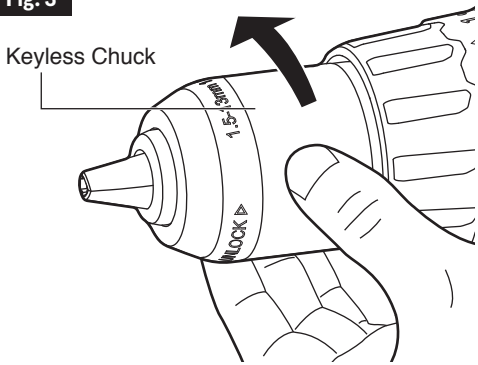
⚠ WARNING **Do not use bits with damaged shanks.**

Your tool is equipped with a keyless chuck to tighten or release bits in the chuck jaws. The arrows on the chuck indicate the direction in which to rotate the chuck body in order to tighten or release the chuck jaws on the bit.

To install the bit:

a. Lock the variable-speed trigger switch OFF on the tool by placing the direction-of-rotation selector in the centre position.

Fig. 3



b. Remove the battery pack and select the Drill Position.

c. Rotate the chuck body counterclockwise, as viewed from chuck end, to open the chuck to approximately the bit diameter.

d. Insert a clean bit up to the drill-bit flutes for small bits, or as far as it will go for large bits (Fig. 3).

⚠ WARNING **Make sure to insert the drill bit straight into the chuck jaws. Do not insert the drill bit into the chuck jaws at an angle and then tighten the chuck as shown in Fig 5.** This could cause the drill bit to be thrown from the tool, resulting in possibly serious personal injury or damage to the chuck.

e. Close the chuck by rotating the chuck body clockwise and securely tighten by hand (Fig. 4).

To remove the bit:

a. Rotate the chuck body counterclockwise, as viewed from the chuck end, to open the chuck.

b. Remove the bit.

⚠ WARNING **The bit may be hot after prolonged use. Use protective gloves when removing the bit from the tool, or first allow the bit to cool down.**

Fig. 4

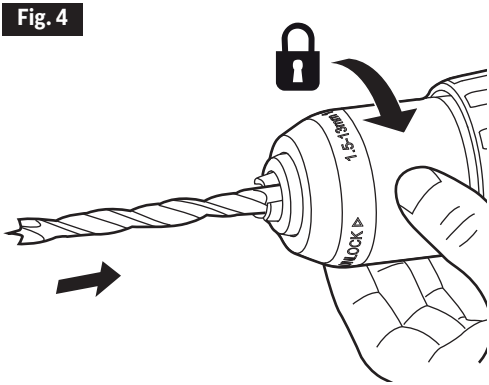
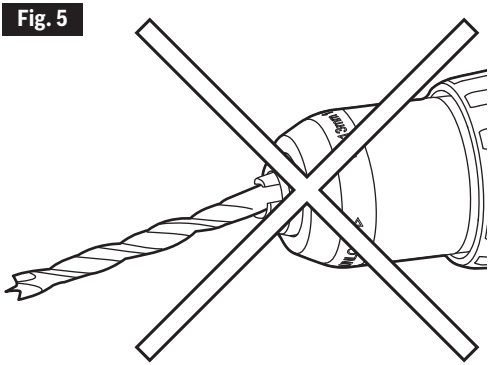


Fig. 5



REMOVABLE BELT CLIP (FIG. 6)

Your tool is equipped with a removable belt clip that can be positioned on the side of the tool for convenient transportation.

Install the belt clip onto the tool:

a. Remove the battery pack from the tool.

b. Align the rib and the hole of the belt clip with the opening and the threaded hole on the base of the tool, respectively.

c. Insert the screw and securely tighten the screw with a screwdriver (not included).

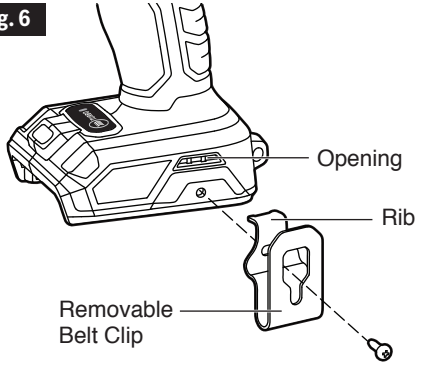
Remove the belt clip from the tool:

a. Remove the battery pack from the tool.

b. Use a screwdriver to loosen the screw that attaches the belt clip to the impact wrench.

c. Remove the screw and the belt clip.

Fig. 6



REMOVABLE BIT CLIP (FIG.7)

Your tool is also equipped with a removable bit clip that can be positioned on the side of the tool for storing bits.

Install the bit clip onto the tool:

a. Remove the battery pack from the tool.

b. Align the hole of the bit clip with the threaded hole on the base of the tool.

NOTICE: Ensure that the protruding part on the bit clip is kept flush against the step on the base of the tool to keep it steady.

c. Insert the screw and securely tighten the screw with a screwdriver (not included).

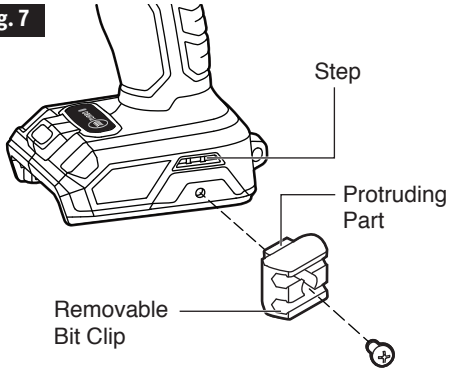
Remove the bit clip from the tool:

a. Remove the battery pack from the tool.

b. Use a screwdriver to loosen the screw that attaches the bit clip to the impact wrench.

c. Remove the screw and the bit clip.

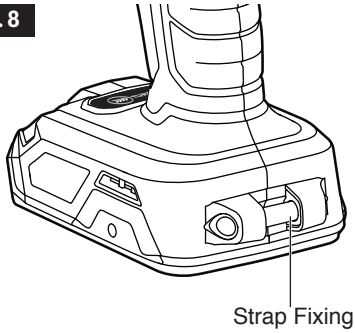
Fig. 7



STRAP FIXING (FIG. 8)

Strap fixing is provided to attach a wrist strap (not included) in order to reduce the chances of dropping your tool. Wrap the strip around your hand when carrying the tool.

Fig. 8



AUXILIARY HANDLE (FIG. 9)

This tool is equipped with an auxiliary handle. For ease of operation, you can use the handle with either the left or the right hand. The handle can be locked in left or right positions.

To install the auxiliary handle:

a. Remove the battery pack from the tool.
b. Place the direction-of-rotation selector in the centre lock position.
c. Loosen the auxiliary handle by turning the handle counterclockwise.
d. Align the raised portion on the auxiliary handle with the grooves on gearbox of the drill/driver, and then put the auxiliary handle onto the tool as shown.
e. Hand-tighten the handle by turning the handle clockwise.

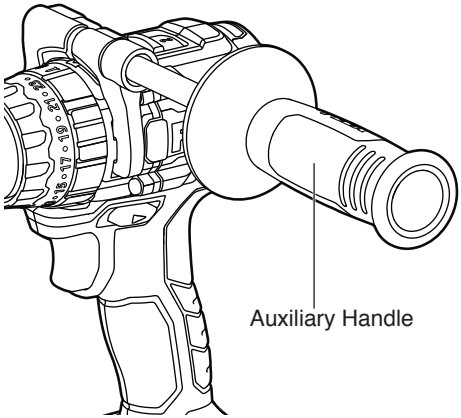
To remove the auxiliary handle:

a. Remove the battery pack from the tool.
b. Place the direction-of-rotation selector in the centre lock position.
c. Loosen the auxiliary handle by turning the handle counterclockwise.
d. Remove the auxiliary handle from the tool.

⚠ WARNING For safety and ease of operation, securely tighten the auxiliary handle by turning the handle clockwise before every use.

⚠ WARNING Battery tools are always in operating condition. Therefore, the direction-of-rotation (forward/centre-lock/reverse) selector should always be locked in the centre position when the tool is not in use or or while carrying the tool at your side.

Fig. 9



ADJUSTMENTS

DIRECTION-OF-ROTATION (FORWARD/ CENTRE-LOCK/REVERSE) SELECTOR

⚠ WARNING After tool use, lock the direction-of-rotation selector in the "OFF" position (centre-lock) to help prevent accidental starts and possible injury.

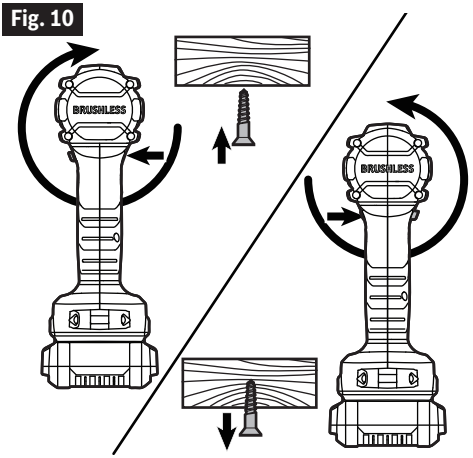
Your tool is equipped with a direction-of-rotation selector, located above the variable-speed trigger switch. This selector is used to change the direction of rotation of the bit and to lock the variable-speed trigger in the OFF (centre-lock) position.

a. Position the direction-of-rotation selector to the far left of the tool to drive screws in or drill holes (Fig. 10).

b. Position the direction-of-rotation selector to the far right of the tool to remove screws (Fig. 10).

c Position the switch in the OFF (centre-lock) position to help reduce the possibility of accidental starting when not in use.

Fig. 10



NOTICE: To prevent gear damage, always allow the tool to come to a complete stop before changing the direction of rotation.

NOTE: The tool will not run unless the direction-of-rotation selector is engaged fully to the left or to the right.

TWO-SPEED GEAR SHIFTER (FIG. 11)

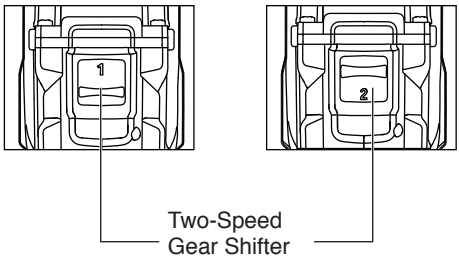
Your tool is equipped with a two-speed gearbox designed for operating at two different gears. The shifter is located on top of the tool and allows to switch between gears "1" and "2".

a. Gear "1" provides higher torque and slower speeds for heavy-duty work or for driving screws, drilling large diameter holes, or tapping threads. Use the mode "1" for starting holes without a centre punch, drilling metals or plastic, drilling ceramics, or in applications requiring a higher torque.

b. Gear "2" provides lower torque and faster speeds for hammer drilling (model FXA1271T only) or lighter drilling work. The gear "2" speed is more suitable for drilling wood and wood composites and for using abrasive and polishing accessories.

NOTICE: To prevent gear damage, always allow the tool to come to a complete stop before changing gears.

Fig. 11



FUNCTION-SELECTION RING (MODEL FXA1271T ONLY) AND TORQUE-ADJUSTMENT RING (FIG. 12 AND 13)

⚠ CAUTION Do not adjust the torque or function-selection ring when the tool is running.

Your tool is equipped with a function-selection ring (FXA1271T only) and torque–adjustment ring for various applications. Move the ring depending on the requirements of your task.

The proper setting depends on the job and the type of bit, fastener, and the material you will be working on. In general, use greater torque for larger screws. If the torque is too high, the screws may be damaged or broken.

Model FXA1171T (Fig. 12):

Your tool features 22 torque settings and 1 drilling setting. Output torque will increase as the ring is rotated from 1 to 22 and vice-versa.

Adjust the torque by rotating the torque-adjustment ring. The higher the torque setting, the more force the tool produces to turn an object.

The Drill setting will lock the clutch to permit drilling and other heavy-duty applications.

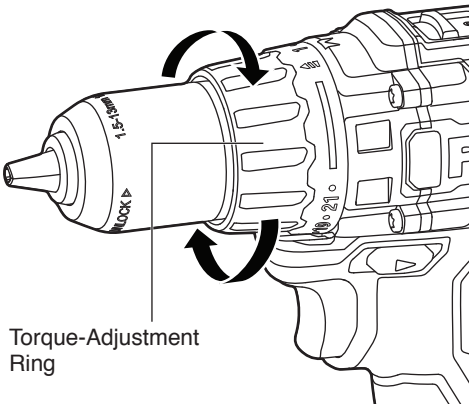
Model FXA1271T (See Fig. 13):

Your tool features 24 torque settings, 1 drilling setting and 1 hammer drilling setting. Output torque will increase as the ring is rotated from 1 to 24 and vice-versa.

The Drill setting will lock the clutch to permit (non-hammer) drilling and other heavy-duty applications.

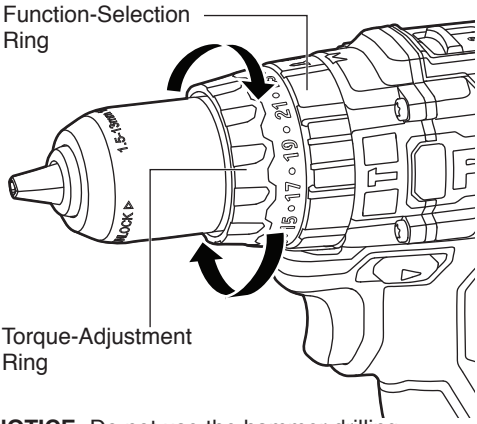
The Hammer Drilling setting will lock the clutch to permit hammer drilling only.

Fig. 12



Torque-Adjustment Ring

Fig. 13



Function-Selection Ring

Torque-Adjustment Ring

NOTICE: Do not use the hammer drilling setting for drilling in wood, metal, ceramic, and plastic to prevent the drill/screw bit from being damaged.

LED LIGHT (FIG. 14)

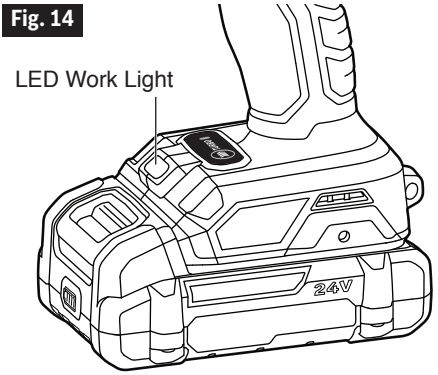
Your tool is equipped with an LED light, located on the base of the tool. This provides additional light on the surface of the work piece for operation in lower-light areas.

The LED light will automatically turn on with a slight squeeze on the variable-speed trigger switch, before the tool starts running, and will turn off approximately 10 seconds after the variable-speed trigger switch is released.

The LED light will rapidly flash when the tool and/or battery pack becomes overloaded or too hot, and the internal sensors will turn the tool off. Rest the tool for a while or place the tool and battery pack separately under air flow to cool them.

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

Fig. 14



ANTI-KICKBACK

The anti-kickback feature enables better control of the drill and improves user's comfort. The drill automatically turns off in case of a sudden and unexpected rotation of the drill.

To restart the drill, release the trigger switch and then turn the drill back on.

NOTICE: The tool is equipped with a reverse protection function. When the drill rotates quickly, it will automatically stop. This is not a malfunction. This is a protection measure.

TURBO MODE (FIG. 15)

In Turbo mode the tool delivers higher rotation speed and higher RPM. The torque remains the same.

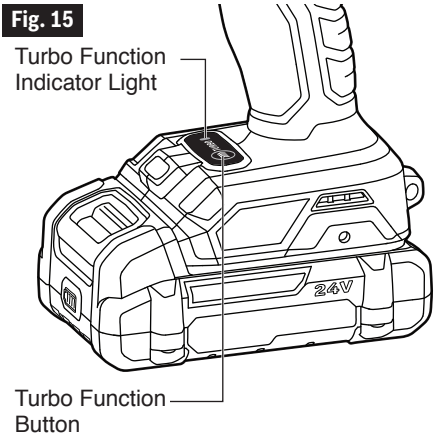
NOTE: When operating in Turbo mode, the tool depletes the battery pack faster.

NOTICE: The Turbo mode cannot be activated or deactivated while the tool is in operation.

Press the Turbo button to activate the Turbo mode of the tool. The indicator light will light up at the same time. When you press the trigger switch the tool will operate in Turbo mode.

To turn off the Turbo mode, release the trigger switch, and then press the Turbo button. The indicator light will turn off and the tool will return to its "normal" mode.

Fig. 15



⚠ WARNING **To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger 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.

This brushless Drill Driver/ Hammer Drill must be used only with the FLEX 24V series battery packs and chargers

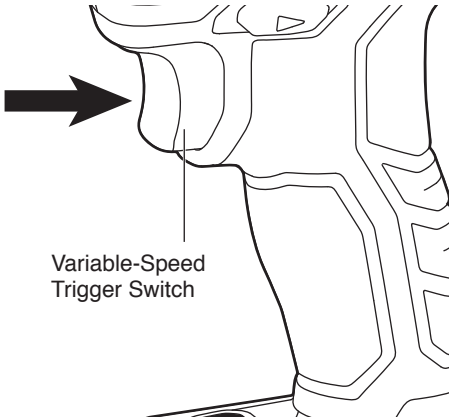
NOTICE: Please refer to the battery pack and charger manuals for detailed operating information.

VARIABLE-SPEED TRIGGER SWITCH (FIG. 16)

Your tool is equipped with a variable-speed trigger switch. The tool can be turned ON or OFF by depressing or releasing the variable-speed trigger switch.

The variable-speed trigger switch delivers higher speed with increased trigger pressure and lower speed with decreased trigger pressure.

Fig. 16



⚠ 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 parts.**

DRILLING (FIG. 17)

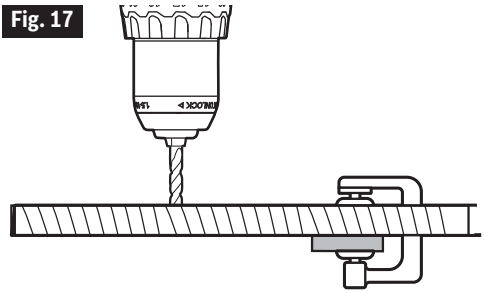
⚠ WARNING **Always wear safety goggles or safety glasses with side shields during power tool operation or when blowing dust. If operation is dusty, also wear a dust mask.**

a. Check that the direction-of-rotation selector is at the correct setting (forward or reverse).

b. Secure the material to be drilled in a vise or with clamps to keep it from turning as the drill bit rotates.

c. Hold the drill firmly and place the bit at the point to be drilled.

Fig. 17



d. Depress the variable-speed trigger switch to start the drill.

e. Move the drill bit into the workpiece, applying only enough pressure to keep the bit "biting". Do not force the drill or apply side pressure to elongate a hole. Let the tool do the work.

f. When drilling hard, smooth surfaces, use a centre punch to mark the desired location of the hole. This will prevent the drill bit from slipping off-centre as the hole is started.

g. When drilling metals, use light oil on the drill bit to keep it from overheating. The oil will prolong the life of the bit and increase the drilling efficiency.

h. If the bit jams in the workpiece or if the drill stalls, stop the tool immediately. Remove the bit from the workpiece and determine the reason for jamming.

There are two rules for drilling hard materials. First, the harder the material, the greater the pressure you need to apply to the tool. Second, the harder the material, the slower the speed should be. If the hole to be drilled is large, drill a smaller hole first, and then enlarge to the required size with a larger bit – it's often faster in the long run.

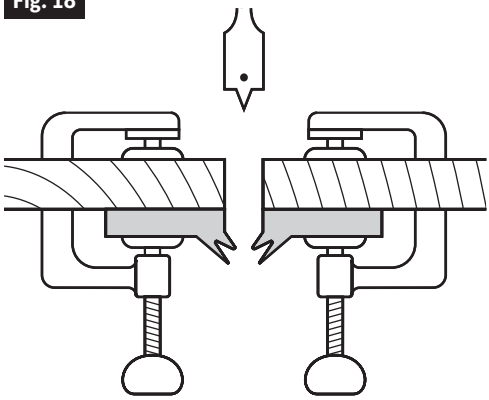
WOOD DRILLING (FIG. 18)

For maximum performance, use high-speed steel or brad-point bits for wood drilling.

- Begin drilling at a very low speed to prevent the bit from slipping off the starting point.
- Increase speed as the drill bit bites into the material.
- When drilling "through" holes, secure a block of wood behind the workpiece to prevent ragged or splintered edges on the back side of the workpiece

NOTICE: Bits may overheat unless reversed and pulled out frequently to clear chips from flutes.

Fig. 18



METAL DRILLING

For maximum performance, use high-speed steel bits for metal or steel drilling.

- When drilling metals, use light oil on the drill bit to keep it from overheating. The oil will prolong the life of the bit and increase the drilling efficiency.
- Begin drilling at a very low speed to prevent the bit from slipping off the starting point.
- Maintain a speed and a pressure that allow cutting without overheating the bit. Applying too much pressure will:
  - Overheat the Drill.
  - Wear the bearings.
  - Bend or burn bits.
  - Produce off-centre or irregularly shaped holes.

DRIVING SCREWS (FIG. 19)

Try to use standard-type screws for easy driving and improved grip.

a. Install the correct driver bit.

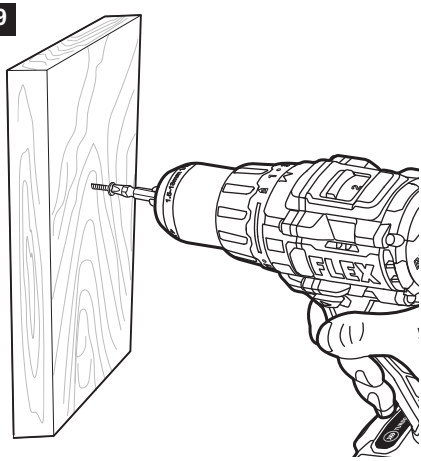
b. Ensure that the torque-adjustment ring is set to the most suitable setting. If in doubt, start with a low setting and gradually increase the setting as necessary. Do not change the torque setting when the tool is running.

c. Use the correct gear ("1" or "2") for the job and initially apply minimal pressure to the variable speed trigger switch. Increase the speed only when full control can be maintained.

d. It is advisable to drill a pilot hole first. This hole should be slightly longer than the screw to be driven and just smaller than the shank diameter of the screw. The pilot hole will act as a guide for the screw and will also make tightening the screw less difficult. When screws are positioned close to an edge of the material, a pilot hole will also help to prevent splitting of the wood.

e. Use a countersinking bit (sold separately) to accommodate the screw head so that it does not protrude from the surface.

Fig. 19



f. Keep sufficient pressure on the drill to prevent the bit turning out of the screw head. The screw head can easily become damaged, making it difficult to drive home or remove.

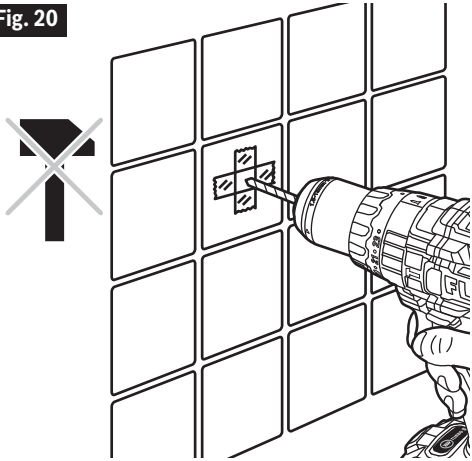
g. To stop the drill/driver, release the trigger switch and allow the tool to come to a complete stop.

MASONRY DRILLING (MODEL FXA1271T ONLY)

For maximum performance, use carbide-tipped masonry bits when drilling holes in brick, tile, concrete, etc.

- Maintain the speed and pressure that allow drilling without overheating the bit or drill. Applying too much pressure will:
  - Overheat the drill.
  - Wear the bearings.
  - Bend or burn bits.
  - Produce off-centre or irregular-shaped holes.
- Apply light pressure and medium speed for best results in brick.
- Apply additional pressure for hard materials such as concrete.
- When drilling holes in tile, practice on a scrap piece to determine the best speed and pressure. To prevent the drill bit from skidding/sliding, first apply two pieces of masking tape to create an "X" shape over the intended drilling spot (Fig. 20).

Fig. 20



- Begin drilling at a very low speed to prevent the bit from slipping off the starting point.

MAINTENANCE

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

SERVICE

⚠ WARNING Preventive maintenance performed by unauthorized 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 Authorized 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 authorized service centre for assistance.

CLEANING

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

ACCESSORIES

⚠ WARNING The use of any other accessories not specified in this manual may create a hazard.

Side Handle

Bit Holder

Belt Clip

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 FLEX24V Tools, FLEX24V 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 or by calling 1300 000 346 in Australia or www.flex-tools.co.nz or by calling 0508 000 346 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: 90Days
- 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 EST/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

	NON REGISTER	REGISTRATION WITHIN 30 DAYS OF PURCHASE
PRODUCT OR MODEL #	LIMITED STANDARD WARRANTY PERIOD	LIMITED WARRANTY PERIOD WITH REGISTRATION WITHIN 30 DAYS FROM DATE OF PURCHASE*
FLEX 24V Lithium-ion power tools	3 Years	5 Years
FLEX 24V Lithium-ion Batteries and Chargers	3 Years	5 Years
FLEX Accessories & Consumables	90 Days	90 Days
FLEX STACK PACK™ Storage system	1 Year	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

FLEX

OPERATOR'S MANUAL

Model: FXA1351

24V BRUSHLESS IMPACT DRIVER

⚠ WARNING: To reduce the risk of injury, the user must read and understand the Owner'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 Owner's Manual, including all safety alert symbols such as "**DANGER**," "**WARNING**," and "**CAUTION**" before using this tool. Failure to following 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 authorized service providers

SAFETY WARNINGS FOR IMPACT DRIVER

Hold the power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring. Fasteners contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.

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.

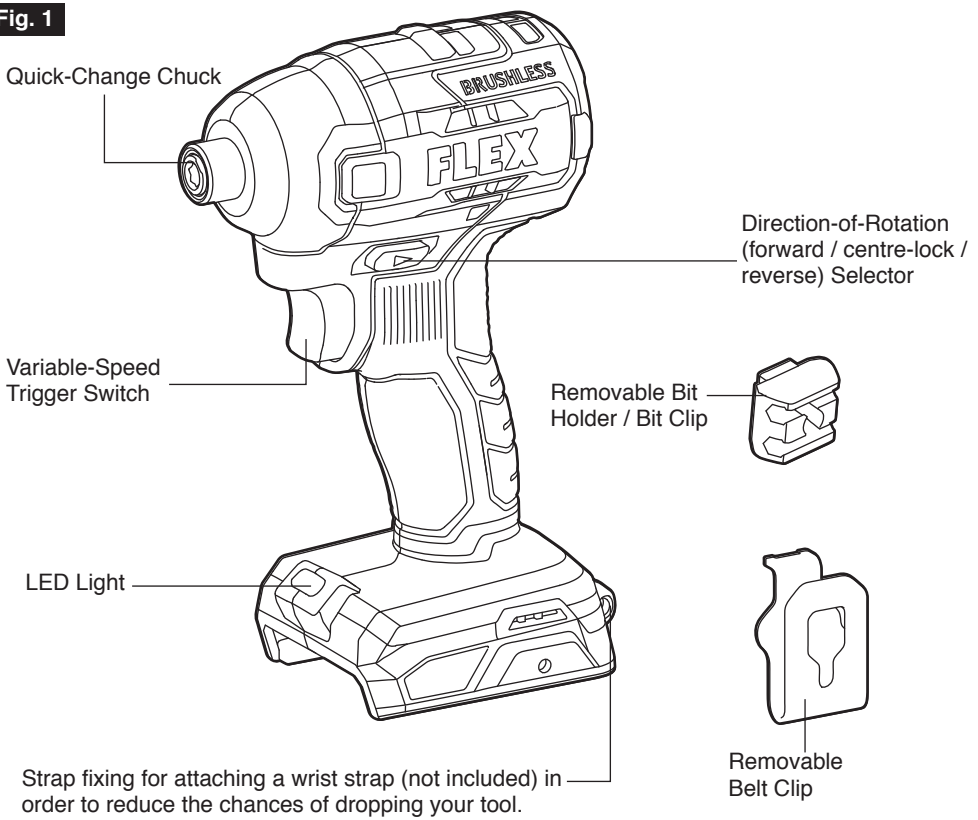
Symbol	Name	Designation/Explanation
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
kg	Kilograms	Weight
min	Minutes	Time
s	Seconds	Time
Wh	Watt-hours	Battery capacity
Ah	Ampere-hours	Battery capacity
ø	Diameter	Size of drill bits, grinding wheels, etc.
n_0	No load 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
0 ◢	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.
	Disposal information for the old machine	Do not throw electric power tools into the household waste!
	Read the instructions	Alerts user to read manual
	Wear eye protection symbol	Alerts user to wear eye protection

Symbol	Name	Designation/Explanation
	Regulatory compliance mark	This product complies with applicable Australian standards.

FUNCTIONAL DESCRIPTION AND SPECIFICATIONS

Impact Driver

Fig. 1



Model no.	FXA1351
Rated voltage	24 V d.c.
Collet size	6.35 mm (1/4") hex
No-load speed	0-3400 /min (RPM)
Maximum torque	203 Nm
Impacts per minute	4000 /min (IPM)
Recommended operating temperature	-20 – 40°C
Recommended storage temperature	< 50°C

Intended Use

This tool is intended for the fastening and loosening of bolts, nuts and various threaded fasteners. This tool is not intended for use as a drill.

⚠ 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. 2)

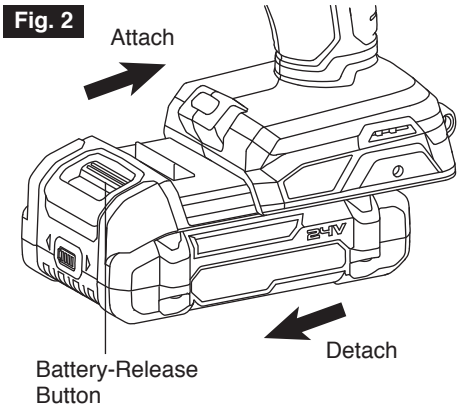
Lock the variable-speed trigger switch "OFF" on the tool by placing the direction-of-rotation (forward/centre-lock/reverse) selector in the centre position before attaching or detaching the battery pack.

To attach the battery pack:

Align the raised rib on the battery pack with the grooves in the tool and then slide the battery pack onto the tool.

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.

Fig. 2



To detach the battery pack:

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.

REMOVABLE BELT CLIP (FIG. 3)

Your tool is equipped with a removable belt clip that can be positioned on the side of the tool for convenient transport.

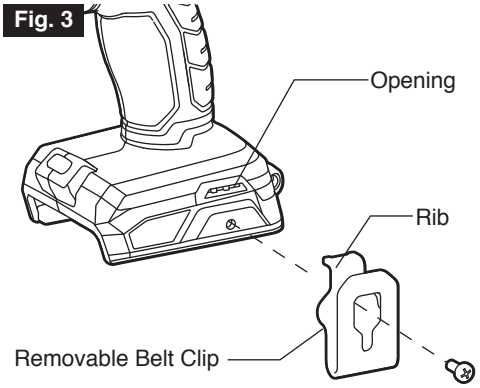
Install the belt clip onto the tool:

a. Remove the battery pack from the tool.
b. Align the rib and the hole of the belt clip with the opening and the threaded hole on the base of the tool, respectively.
c. Insert the screw and securely tighten the screw with a screwdriver.

Remove the belt clip from the tool:

a. Remove the battery pack from the tool.
b. Use a screwdriver to loosen the screw that attaches the belt clip to the impact driver.
c. Remove the screw and the belt clip.

Fig. 3



REMOVABLE BIT CLIP (FIG.4)

Your tool is also equipped with a removable bit clip that can be positioned on the side of the tool for storing bits.

Install the bit clip onto the tool:

a. Remove the battery pack from the tool.

b. Align the hole of the bit clip with the threaded hole on the base of the tool.

NOTICE: Ensure that the protruding part on the bit clip is kept flush against the step on the base of the tool to keep it steady.

c. Insert the screw and securely tighten the screw with a screwdriver.

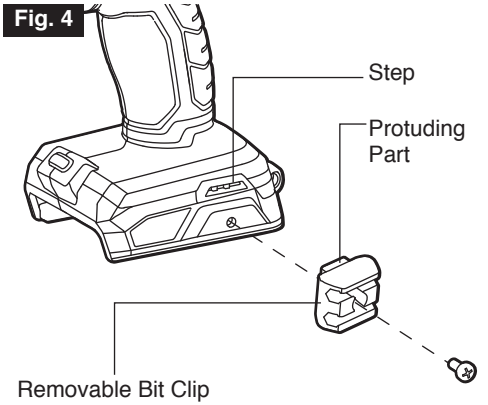
Remove the bit clip from the tool:

a. Remove the battery pack from the tool.

b. Use a screwdriver to loosen the screw that attaches the bit clip to the impact driver.

c. Remove the screw and the bit clip.

Fig. 4



INSTALL AND REMOVE BITS (FIG. 5)

Your tool is equipped with a quick-change chuck, making the bit installation and removal very easy.

Lock the variable-speed trigger switch OFF by placing the direction-of-rotation selector in the centre position.

To install the bit:

Pull the locking sleeve forward (away from the tool), insert the bit as far as it will go into the chuck, and release the locking sleeve to lock the bit.

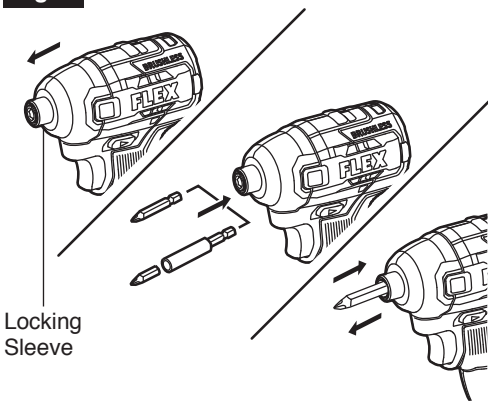
To remove the bit:

Pull the locking sleeve forward (away from the tool). Pull the bit from the chuck and release the sleeve.

NOTICE: Use only bits with power grooves; other bits can be used with a universal bit holder that has power groove (not included). Do not use a bit that has a damaged shank.

⚠ WARNING **The bit may be hot after prolonged use. Use protective gloves when removing the bit from the tool, or first allow the bit to cool down.**

Fig. 5



ADJUSTMENTS

DIRECTION-OF-ROTATION (FORWARD/ CENTRE-LOCK/REVERSE) SELECTOR

⚠ WARNING After tool use, lock the direction-of-rotation selector in the "OFF" position (centre-lock) to help prevent accidental starts and possible injury.

Your tool is equipped with a direction-of-rotation selector, located above the variable-speed trigger switch. This selector is used to change the direction of rotation of the bit and to lock the variable-speed trigger in the "OFF" (centre-lock) position.

a. Position the direction-of-rotation selector to the far left of the tool to drive screws in or tighten bolts/nuts (Fig. 6).

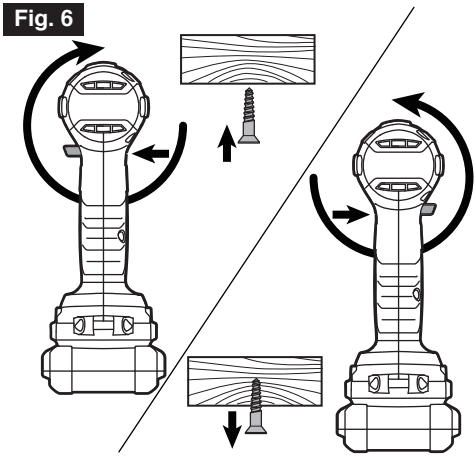
b. Position the direction-of-rotation selector to the far right of the tool to remove screws or loosen bolts/nuts (Fig. 6).

c. Position the switch in the "OFF" (centre-lock) position to help reduce the possibility of accidental starting when not in use.

NOTICE: To prevent gear damage, always allow the impact driver to come to a complete stop before changing the direction of rotation.

NOTICE: The impact driver will not run unless the direction-of-rotation selector is engaged fully to the left or to the right.

Fig. 6



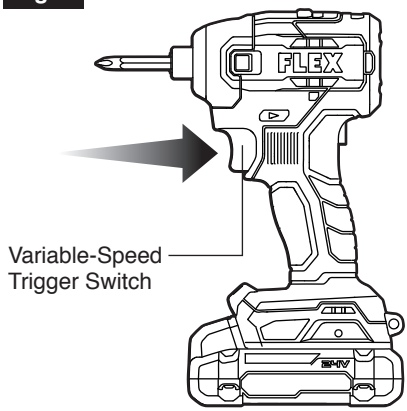
⚠ WARNING Battery tools are always in operating condition. Therefore, the direction-of-rotation (forward/ centre-lock/reverse) selector should always be locked in the centre position when the tool is not in use or when carrying it at your side.

VARIABLE-SPEED TRIGGER SWITCH (FIG. 7)

Your tool is equipped with a variable-speed trigger switch. The tool can be turned ON or OFF by depressing or releasing the variable-speed trigger switch.

The variable-speed trigger switch delivers higher speed with increased trigger pressure and lower speed with decreased trigger pressure.

Fig. 7



LED LIGHT (FIG. 8)

Your tool is equipped with the LED work light. This provides additional light on the surface of the work piece for operation in lower-light areas.

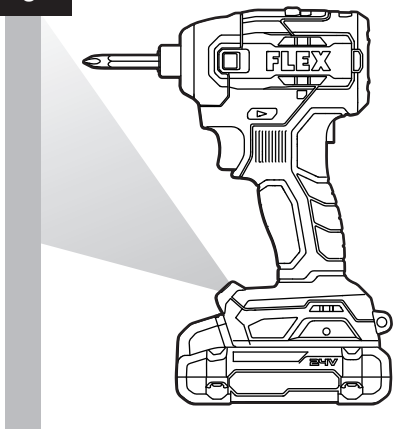
The LED work light will automatically turn on with a slight squeeze on the trigger switch before the tool starts running. It will turn off approximately 10 seconds after the trigger switch is released.

a. The LED light will rapidly flash when the tool and/or battery pack becomes overloaded or too hot, and the internal sensors will turn the tool off. Rest the tool for a while or place the tool and battery pack separately under air flow to cool them.

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

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 authorized service centre for assistance.

Fig. 8



⚠ WARNING To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger 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 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.

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

This brushless impact driver must be used only with the FLEX 24V series battery packs and chargers

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

TIGHTEN AND LOOSEN SCREWS, NUTS AND BOLTS (FIG. 9)

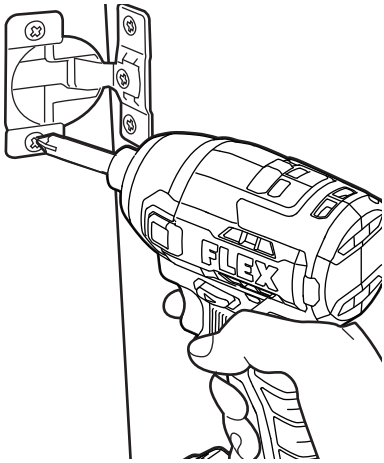
Variable-speed control must be used with caution for driving nuts and bolts using socket set attachments. The best technique is to start slowly, increase speed as the nut or bolt runs down, and then set the nut or bolt snugly by slowing the tool to a stop. If this procedure is not followed, the tool will have a tendency to torque or twist in your hand when the nut or bolt seats.

a. Install a suitable bit.
b. Apply just enough pressure to keep the bit engaged on the screw or nut.
c. Apply minimal pressure to the variable-speed trigger switch initially. Increase the speed only when full control can be maintained.

NOTICE:

a. Always use the correct type and size of bit for your application.
b. When turning in a screw at/near the crosscut end or an edge of wood, pre-drill a hole in order to avoid cracking of the wood.
c. When screw driving in hard wood, one should pre-drill a pilot hole.

Fig. 9



⚠ WARNING Do not over-tighten, as the force of the impact driver can break the fastener. Keep the impact driver at a right angle to the fastener to avoid damaging the fastener head.

MAINTENANCE

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

SERVICE

⚠ WARNING Preventive maintenance performed by unauthorized 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 Authorized 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 authorized service centre for assistance.

CLEANING

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

ACCESSORIES

⚠ WARNING The use of any other accessories not specified in this manual may create a hazard.

Bit Holder

Belt Clip

#2 Philips Bit

T25 Bit

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 FLEX24V Tools, FLEX24V 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 or by calling 1300 000 346 in Australia or www.flex-tools.co.nz or by calling 0508 000 346 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: 90Days
- 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 EST/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

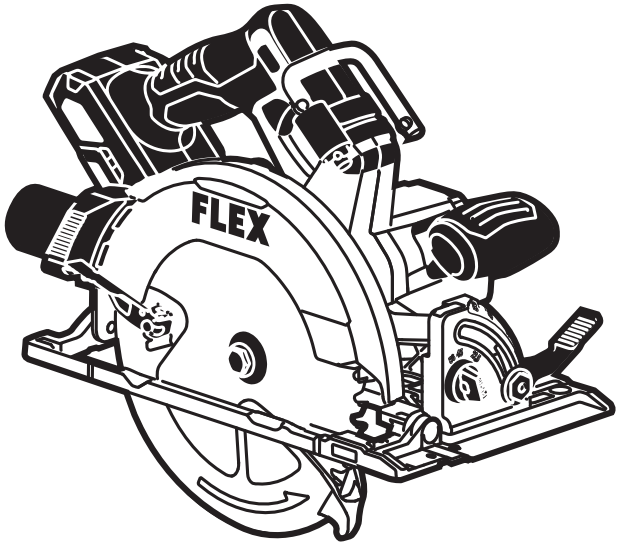
Chervon New Zealand Subsidiary Ltd
4th Floor, Smith & Caughey Building, 253 Queen St, Auckland, 1141.
Ph New Zealand; 0508 000 346. Email: support@flex-tools.com.au

	NON REGISTER	REGISTRATION WITHIN 30 DAYS OF PURCHASE
PRODUCT OR MODEL #	LIMITED STANDARD WARRANTY PERIOD	LIMITED WARRANTY PERIOD WITH REGISTRATION WITHIN 30 DAYS FROM DATE OF PURCHASE*
FLEX 24V Lithium-ion power tools	3 Years	5 Years
FLEX 24V Lithium-ion Batteries and Chargers	3 Years	5 Years
FLEX Accessories & Consumables	90 Days	90 Days
FLEX STACK PACK™ Storage system	1 Year	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

FLEX

OPERATOR'S MANUAL



Model: FXA2141

24V BRUSHLESS CIRCULAR SAW

⚠ WARNING: To reduce the risk of injury, the user must read and understand the Owner'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 Owner'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 authorized service providers.

Cutting procedures

⚠ DANGER **Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle, or motor housing.** If both hands are holding the saw, they cannot be cut by the blade.

Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.

Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade teeth should be visible below the workpiece.

Never hold the workpiece in your hands or across your leg while cutting. Secure the workpiece to a stable platform. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.

Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting tool may contact hidden wiring. Contact with a "live" wire will also make exposed metal parts of the power tool "live" and could give the operator an electric shock.

When ripping, always use a rip fence or straight edge guide. This improves the accuracy of cut and reduces the chance of blade binding.

Always use blades with correct size and shape (diamond versus round) of arbor holes. Blades that do not match the mounting hardware of the saw will run off-centre, causing loss of control.

Never use damaged or incorrect blade washers or bolt. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

Kickback causes and related warnings

Kickback is a sudden reaction to a pinched, jammed or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;

When the blade is pinched or jammed tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator;

If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

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

Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.

When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.

When restarting a saw in the workpiece, centre the saw blade in the kerf so that the saw teeth are not engaged into the material. If a saw blade binds, it may walk up or kickback from the workpiece as the saw is restarted.

Support large panels to minimize the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.

Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.

Blade depth and bevel adjusting locking levers must be tight and secure before making the cut. If blade adjustment shifts while cutting, it may cause binding and kickback.

Use extra caution when sawing into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.

Lower guard function

Check the lower guard for proper closing before each use. Do not operate the saw if the lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If the saw is accidentally dropped, the lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.

Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use. Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.

The lower guard may be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise the lower guard by the retracting handle and as soon as the blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.

Always observe that the lower guard is covering the blade before placing the saw down on bench or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.

Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.

Inspect the condition and quality of the wood and remove all nails from lumber before cutting. Wet lumber, green lumber or pressure treated lumber require special attention during cutting operation to prevent kickback.

Hold the saw firmly to prevent loss of control. Figures in this manual illustrate typical hand support of the saw.

This circular saw should not be mounted to a table and converted to a table saw. Circular saws are not designed or intended to be used as table saws.

Never place your hand behind the saw blade. Kickback could cause the saw to jump backwards over your hand.

Do not use the saw with an excessive depth of cut setting. Too much blade exposure increases the likelihood of the blade twisting in the kerf and increases the surface area of the blade available for pinching that leads to kickback

Do not run the tool while carrying it at your side. Lower guard may be opened by a contact with your clothing. Accidental contact with the spinning saw blade could result in serious personal injury.

Periodically remove the blade, clean the upper, lower guards with kerosene and wipe it dry, or blow it clean with compressed air. Preventive maintenance and properly operating guard will reduce the probability of an accident.

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
0◢	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.
	Disposal information for the old machine	Do not throw electric power tools into the household waste!
	Read the instructions	Alerts user to read manual

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

FUNCTIONAL DESCRIPTIONS AND SPECIFICATIONS

Circular Saw

Fig. 1a

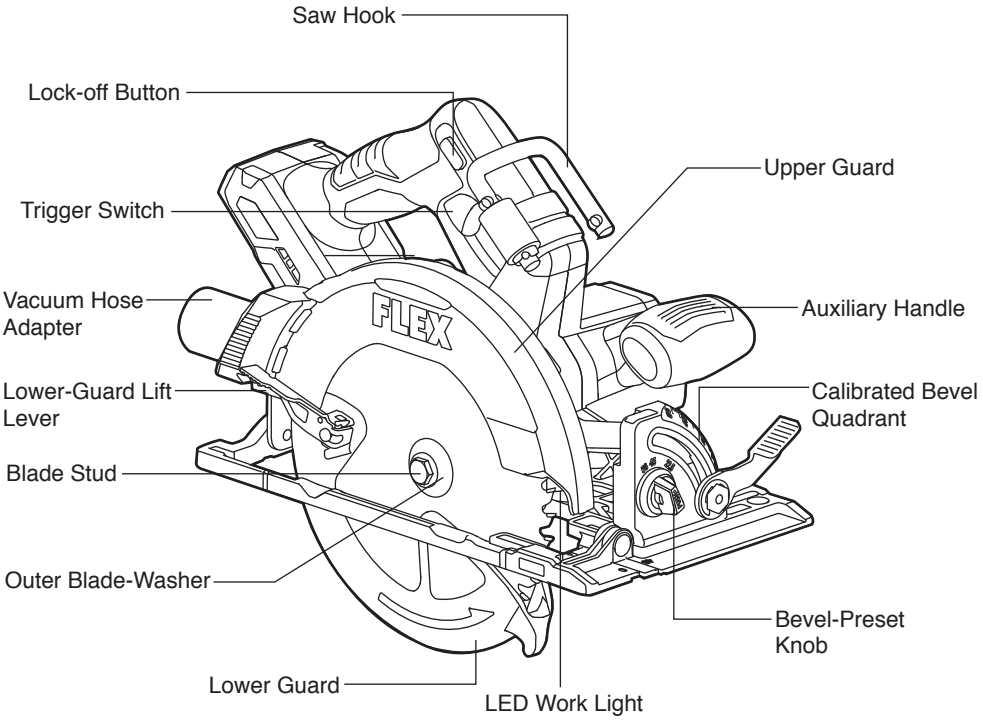
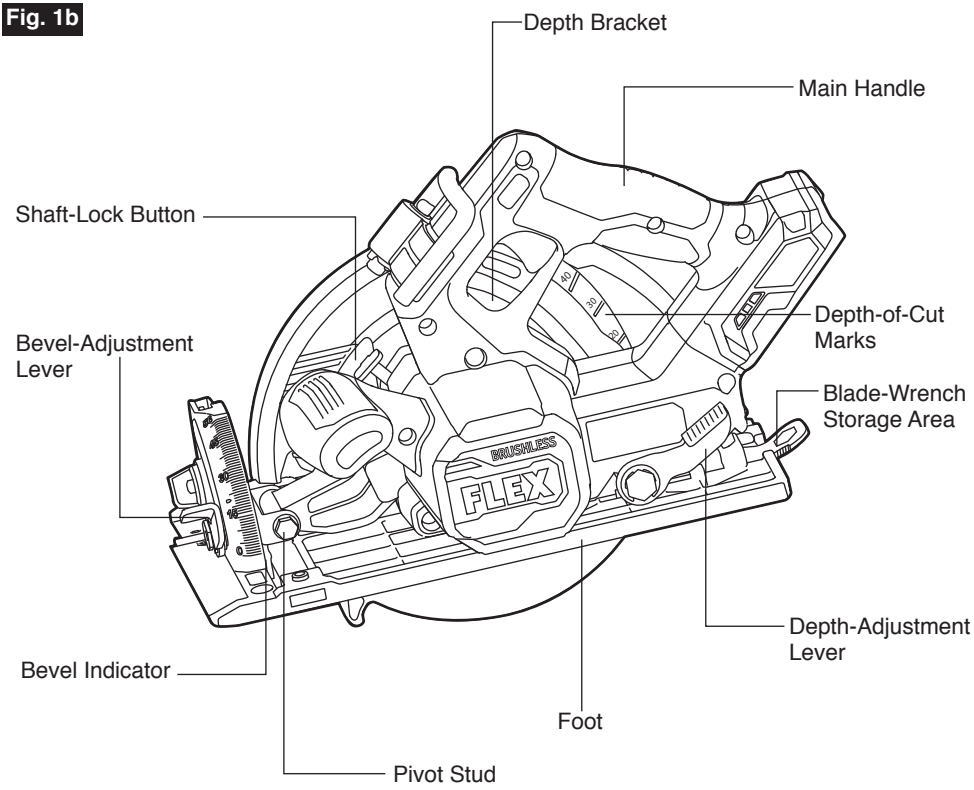


Fig. 1b



Model No.	FXA2141
Rated Voltage	24 V d.c.
No Load Speed	5800 /min
Bevel Capacity	0 – 56°
Blade	Ø 184 mm
Blade Arbor Hole	Ø 20 mm
Depth of cut at 90°	66 mm
Depth of cut at 45°	48 mm
Depth of cut at 56°	38 mm
Recommended operating temperature	-20 ~ 40°C
Recommended storage temperature	< 50°C

Intended Use

This tool is only designed for wood-cutting; it is not designed for use with metal or masonry cut-off wheels.

⚠ WARNING **Do not use abrasive wheels with circular saws.** Abrasive dust may cause the lower guard to not operate properly.

⚠ 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. 2)

To attach the battery pack:

Align the raised rib on the battery pack with the grooves in the tool, and then slide the battery pack onto the tool.

NOTICE: Make sure that the latch on the battery pack snaps into place and that the battery pack is secured to the tool before beginning operation.

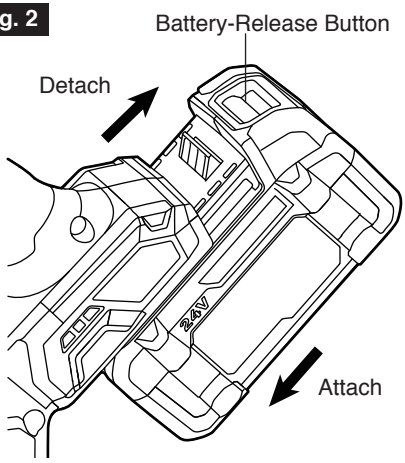
NOTICE: When placing the battery pack onto the tool, be sure that the raised rib on the battery pack aligns with the groove inside the tool and that the latches snap into place properly. Improper attachment of the battery pack can cause damage to internal components.

To detach the battery pack:

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.

⚠ WARNING **Battery tools are always in operating condition. Therefore, remove the battery when the tool is not in use or when carrying it at your side.**

Fig. 2



ATTACHING THE BLADE (FIG. 3)

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

⚠ WARNING **Use only Ø184mm saw blades rated 5800/min or greater. NEVER use a blade that is so thick that it prevents the outer blade washer from engaging with the flat side of the spindle.** Using a blade not designed for the saw may result in serious personal injury and property damage.

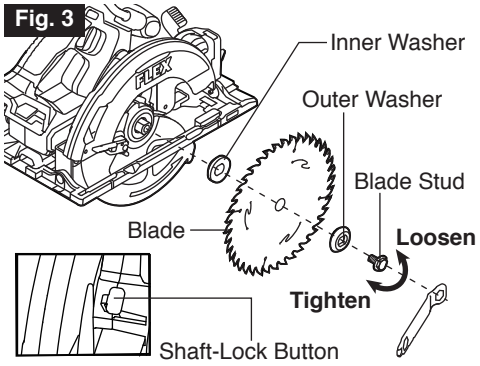
a. Take the blade wrench from its storage area.

b. Press the shaft-lock button and turn blade wrench until the shaft-lock button engages. The saw shaft is now locked. Continue to depress the shaft-lock button, turn the blade wrench counterclockwise and remove the blade stud and the outer washer.

c. Make sure that the saw teeth and the arrow on the blade point in the same direction as the arrow on the lower guard.

d. Retract the lower guard all the way up into the upper guard. While retracting the lower guard, check the operation and condition of the lower-guard spring.

Fig. 3



e. Slide the blade through the slot in the foot and mount it against the inner washer on the shaft. Be sure that the large diameter of the inner and outer washers lay flush against the blade.

f. Reinstall the OUTER WASHER. First finger tighten the blade stud, then tighten the blade stud 1/8 turn (45˚) with the blade wrench provided.

NOTICE: Do not use a blade wrench with a longer handle, since it may lead to over tightening of the blade stud.

NOTICE: Always clean the spindle, upper guard, and lower guard to remove any dirt and sawdust.

ATTACHING THE VACUUM HOSE ADAPTER (FIG. 4)

⚠ WARNING **Always wear a dust mask during use.**

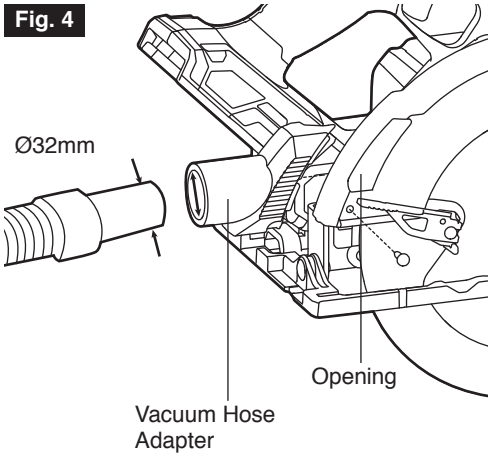
Align the vacuum hose adapter with the opening on the upper guard, fix the vacuum hose adapter in place by using a screw (provided).

To extract the saw dust created during cutting, connect a suitable vacuum cleaner with a Ø32mm suction hose to the vacuum hose adapter.

Make sure the vacuum hose has freedom to move and has enough length to complete the cut. If needed, have another person move the vacuum cleaner and the hose while you are making the cut.

Before starting a cut, make sure that the airflow through the upper guard is not obstructed.

Fig. 4



ADJUSTMENTS

DEPTH ADJUSTMENT (FIG. 5A AND 5B)

Remove the battery pack from the circular saw.

a. Loosen the depth-adjustment lever by pushing it up towards the motor housing.

b. Hold the foot down with one hand and use the handle to raise or lower the saw.

c. Align the notch on the depth bracket with the desired depth-of-cut mark on the upper guard and tighten the depth-adjustment lever.

Check the set depth. Not more than one tooth length of the blade should extend below the material to be cut to minimize splintering.

NOTICE: The four most common cutting depths are marked on the upper guard. These settings help the operator to quickly set the saw to cut through the material with thickness of 6mm, 13mm, 19mm, and 2×PLY, respectively, while allowing one tooth length of the blade to extend below the material.

Fig. 5A

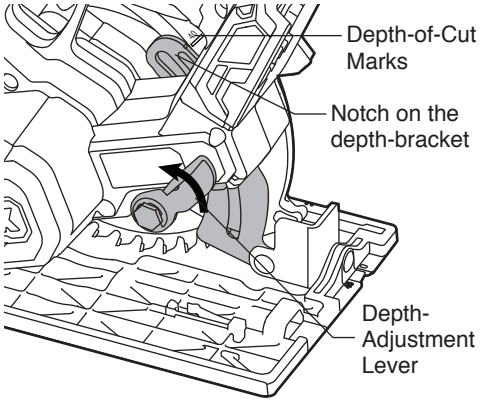
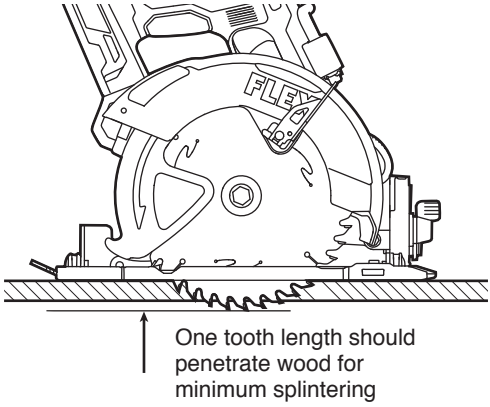


Fig. 5B



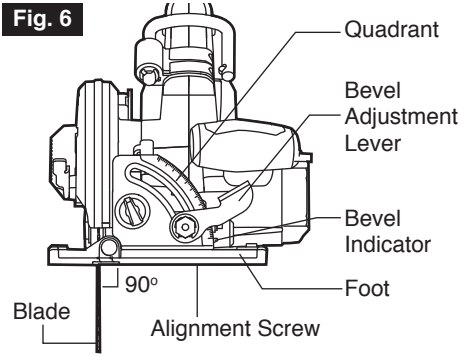
CHECK THE 90° CUTTING ANGLE (FIG. 6)

Remove the battery pack from the circular saw.

a. Set the foot to the maximum depth of cut setting. Loosen the bevel-adjustment lever, set the bevel indicator to 0° on quadrant, retighten the lever, and check for 90° angle between the blade and bottom plane of foot with a square.

b. Use a 2.5mm hex key (not included) to make adjustments, if necessary, by turning the small alignment screw from bottom side of the foot.

Fig. 6



BEVEL ADJUSTMENT (FIG. 7)

Remove the battery pack from the circular saw.

Your tool is equipped with a bevel-preset knob and a bevel adjustment lever at the front of the saw. to control bevel angle setting.

NOTICE: The bevel-preset knob of your saw was set to 56° at the factory.

The bevel-preset knob allows the operator to quickly set bevel at 22.5°, 45°, and 56°.

To use the bevel-preset knob

a. Push the bevel-preset knob and turn it to one of the desired settings – 22.5°, 45°, or 56°.

b. Release the bevel-preset knob and it will serve as a travel stop when adjusting the bevel angle.

To use the bevel-adjustment lever

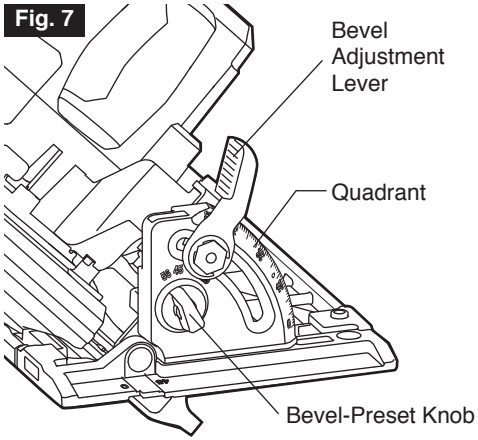
With the bevel-preset knob set, the operator can quickly set the bevel angle to one of the presets 22.5°, 45°, and 56° or select a desired bevel angle within the selected angle range.

a. Loosen the bevel-adjustment lever.

b. Tilt the saw as far as possible until it is blocked by the bevel-preset knob at either 22.5°, 45°, or 56°. If a custom bevel angle within the selected angle range (e.g. 22.5 – 45°), tilt the saw until the bevel indicator is aligned with the desired angle mark on the quadrant.

c. Tighten the bevel-adjustment lever.

Fig. 7

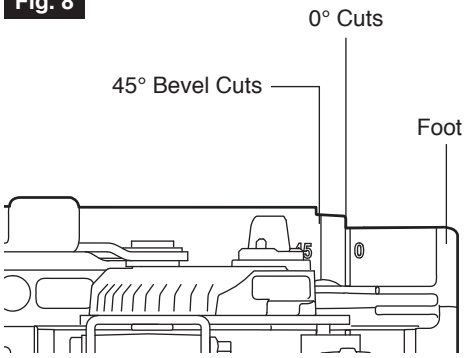


⚠ WARNING **Because of the increased amount of blade engagement in the work and decreased stability of the foot, blade binding may occur. Keep the saw steady and the foot firmly on the workpiece.**

LINE GUIDE (FIG. 8)

For a 0° cut and a 45° bevel cut, use the respective marks on the foot for guidance. The cutting guide will indicate an approximate line of cut. Make sample cuts in scrap lumber to verify the actual line of cut. This will be helpful because of the number of different blade types and thicknesses available. To ensure minimum splintering on the good side of the material to be cut, face the good side down.

Fig. 8



SAW HOOK (FIG. 9)

Your tool is equipped with a hook. Use the hook to hang the saw from a rafter or beam or other similar secure structure for temporary storage during work. Recommended lumber size to support the saw with the hook: 2x4.

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

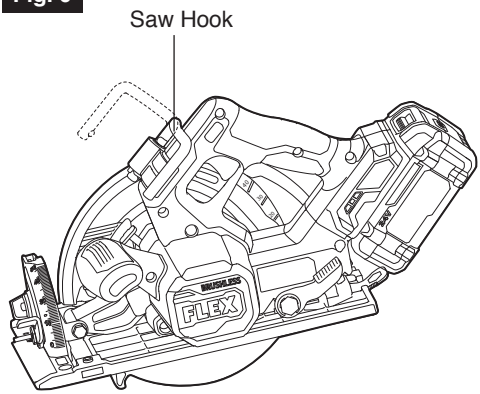
When not in use, always lower the hook until it snaps into the closed position.

⚠ 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.

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

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

Fig. 9



⚠ WARNING To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger 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 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.

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

This brushless circular saw must be used only with the FLEX 24V series battery packs and chargers.

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

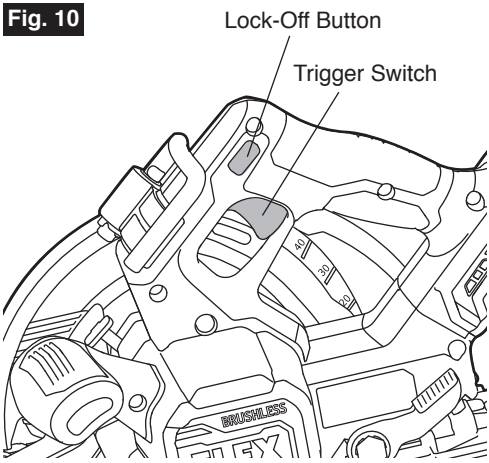
SWITCH (FIG. 10)

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

To turn the tool “OFF”, release the trigger switch, which is spring loaded and will return to the off position automatically.

Your saw should be running at full speed BEFORE starting the cut, and turned off only AFTER completing the cut. To increase switch life, do not turn switch on and off while cutting.

Fig. 10



LED WORK LIGHT (FIG.11)

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

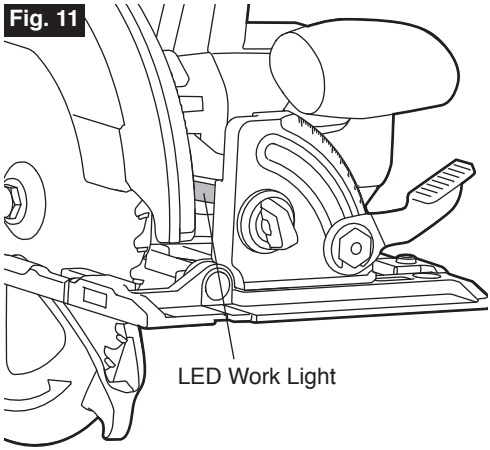
The LED work light will automatically turn on with a slight squeeze of the trigger switch before the tool starts running. It will turn off approximately 10 seconds after the trigger switch is released.

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.

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 authorized service centre for assistance.

Fig. 11



GENERAL CUTS

Always hold the saw by the main handle with one hand and the auxiliary handle with the other. Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade.

Make sure your body faces away from the vacuum hose adapter.

⚠ WARNING Always be sure that neither hand interferes with the free movement of the lower guard.

Maintain a firm grip and operate the switch with a decisive action. Never force the saw. Use light and continuous pressure.

⚠ WARNING After completing a cut and releasing the trigger, be aware of the necessary time it takes for the blade to come to a complete stop during coast down. Do not allow the saw to brush against your leg or side; since the lower guard is retractable, it could catch on your clothing and expose the blade. Be aware of the necessary blade exposures that exist in both the upper and lower guard areas.

To resume cutting when cutting is interrupted, restart the saw, and allow the blade to reach full speed, re-enter the cut slowly, and resume cutting.

When cutting across the grain, the fibers of the wood tend to tear and lift. Advancing the saw slowly minimizes this effect. For a finished cut, a cross cut blade or miter blade is recommended.

PLUNGE CUTS (FIG. 12)

Remove the battery pack from the circular saw before making adjustments.

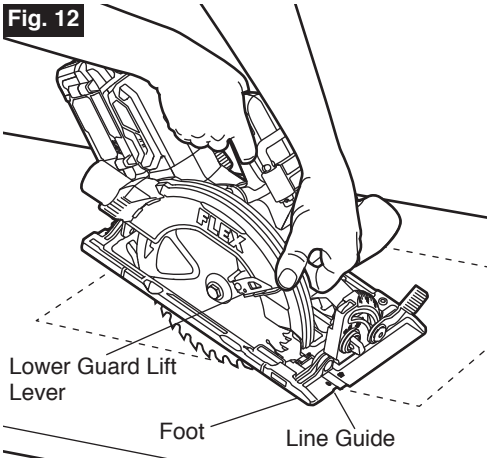
a. Set the depth adjustment according to the thickness of the material to be cut. Attach the battery pack.

b. Hold the main handle of the saw with one hand, tilt the saw forward, and rest the front of the foot plate on the material to be cut. Line up 0° mark on the foot with the line you've drawn. Use the lower-guard lift lever to raise the lower guard and hold the front of the foot plate with the other hand (Fig. 12).

Position the saw so that the blade is just clearing the material to be cut. Start the saw and, once it is fully up to speed, gradually lower the back end of saw using the front end of the foot as the hinge point.

Once the foot plate rests flat on the surface being cut, release the lower guard and move the hand holding the front of the foot plate to hold the auxiliary handle. Proceed cutting in forward direction to end of cut.

Fig. 12



⚠ WARNING **Allow blade to come to a complete stop before lifting the saw from the cut. Also, never pull the saw backward, since blade will climb out of the material and KICKBACK will occur.** Turn the saw around and finish the cut in the normal manner, sawing forward. If corners of your plunge cut are not completely cut through, use a jig saw or hand saw to finish the corners.

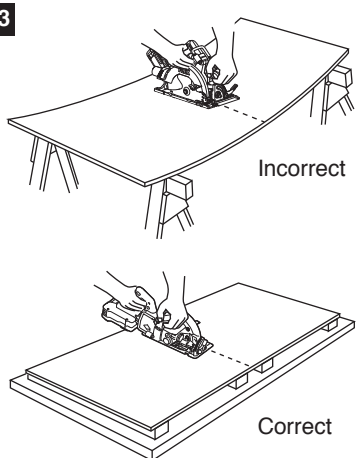
CUTTING LARGE SHEETS (FIG. 13)

Large sheets and long boards can sag or bend, depending on their support. If you attempt to cut without leveling and properly supporting the piece, the blade will tend to bind, causing KICKBACK and extra load on the motor.

Support the panel or board close to the cut, as shown in (Fig. 13). Be sure to set the depth of the cut so that you cut through the sheet or board only and not the table or work bench.

The two-by-fours used to raise and support the work should be positioned so that the wide sides support the work and rest on the table or bench. Do not support the work with the narrow sides, as this is an unsteady arrangement. If the sheet or board to be cut is too large for a table or work bench, use the supporting two-by-fours on the floor and secure.

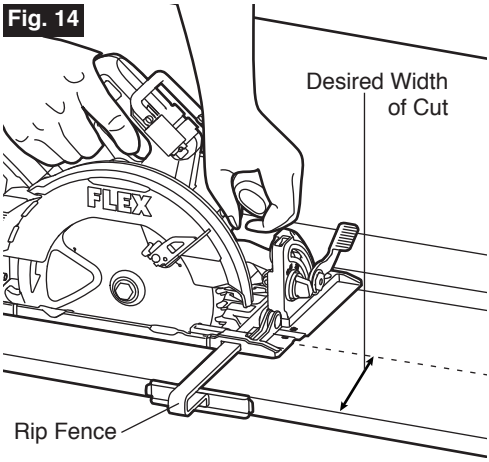
Fig. 13



RIP CUTS (FIG. 14)

The blade provided with your saw is designed for both cross cuts and rip cuts. Ripping is cutting lengthwise with the grain of the wood. Rip cuts are easy to perform with a rip fence (Fig. 14). A rip fence is available as an accessory (not included). To attach a fence, insert the fence through the slots in the foot to the desired width, as shown, and secure it with the locking nut (included with the rip fence).

Fig. 14



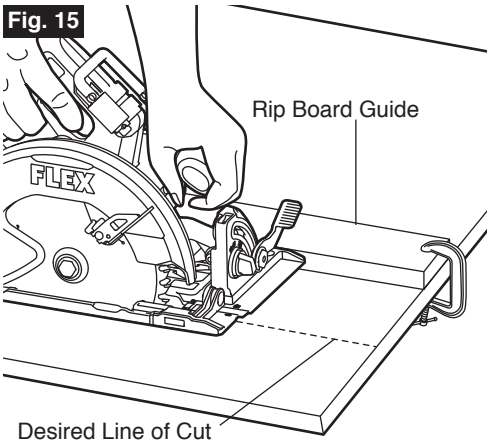
RIP-BOARD GUIDE (FIG. 15)

When rip cutting large sheets, the rip fence may not allow the desired width of cut.

Clamp or nail a straight piece of 25 mm lumber to the sheet as a guide (Fig. 15). Use the right side of the foot against the board guide.

⚠ WARNING **Ensure that the clamps do not interfere with the free movement of the saw.**

Fig. 15



MAINTENANCE

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

SERVICE

⚠ WARNING Preventive maintenance performed by unauthorized 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 Authorized 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 authorized service centre for assistance.

CLEANING

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

CARE OF BLADES

Blades become dull even from cutting regular lumber. If you find yourself forcing the saw forward to cut instead of just guiding it through the cut, chances are the blade is dull or coated with wood pitch.

When cleaning gum and wood pitch from blade, detach the battery pack and remove the blade.

Remember, blades are designed to cut, so handle them carefully. Wear gloves and wipe the blade with kerosene or similar solvent to remove the gum and pitch.

Unless you are experienced in sharpening blades, we recommend you do not try.

ACCESSORIES

⚠ WARNING The use of any other accessories not specified in this manual may create a hazard.

184mm 24T FLEX Blade

Vacuum Adaptor & Lower Guard Lever

Blade Wrench

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 FLEX24V Tools, FLEX24V 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 or by calling 1300 000 346 in Australia or www.flex-tools.co.nz or by calling 0508 000 346 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: 90Days
- 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 EST/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

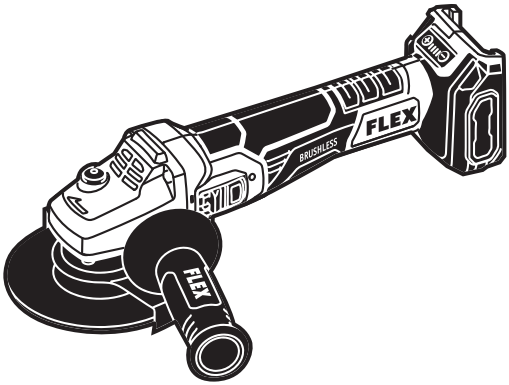
Chervon New Zealand Subsidiary Ltd
4th Floor, Smith & Caughey Building, 253 Queen St, Auckland, 1141.
Ph New Zealand; 0508 000 346. Email: support@flex-tools.com.au

	NON REGISTER	REGISTRATION WITHIN 30 DAYS OF PURCHASE
PRODUCT OR MODEL #	LIMITED STANDARD WARRANTY PERIOD	LIMITED WARRANTY PERIOD WITH REGISTRATION WITHIN 30 DAYS FROM DATE OF PURCHASE*
FLEX 24V Lithium-ion power tools	3 Years	5 Years
FLEX 24V Lithium-ion Batteries and Chargers	3 Years	5 Years
FLEX Accessories & Consumables	90 Days	90 Days
FLEX STACK PACK™ Storage system	1 Year	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

FLEX

OPERATOR'S MANUAL



Model: FXA3181A

24V BRUSHLESS (125MM) VARIABLE SPEED ANGLE GRINDER

⚠ **WARNING: To reduce the risk of injury, the user must read and understand the Owner'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 Owner'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 authorized service providers

SAFETY WARNINGS COMMON FOR GRINDING, CUTTING-OFF OPERATIONS

This power tool is intended to function as a grinder or cut-off tool. 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.

Operations such as sanding, wire brushing and polishing are not recommended to be performed with this power tool. Operations for which the power tool was not designed may create a hazard and cause personal injury.

Do not convert this power tool to operate in a way which is not specifically designed and specified by the tool manufacturer. Such a conversion may result in a loss of control and cause serious personal injury.

Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the 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.

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 dimensions of the accessory mounting must fit the dimensions of the mounting hardware of the power tool. Accessories 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 a damaged accessory. Before each use, inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories 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 workshop 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 accessory 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 tool may contact hidden wiring. Contact with a “live” wire will also make exposed metal parts of the power tool “live” and could give the operator an electric shock.

Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.

Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory 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.

Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

Further safety instructions for all operations

Kickback and Related Warnings:

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory'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 the area where power tool will move if kickback occurs. 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.

SAFETY WARNINGS SPECIFIC FOR GRINDING AND CUTTING-OFF OPERATIONS

Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel. Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.

The grinding surface of centre depressed wheels must be mounted below the plane of the guard lip. An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected.

The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. The guard helps to protect the operator from broken wheel fragments, accidental contact with wheel and sparks that could ignite clothing.

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 size and shape for your selected wheel. Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.

Do not use worn down wheels from larger power tools. Wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.

When using dual purpose wheels always use the correct guard for the application being performed. Failure to use the correct guard may not provide the desired level of guarding, which could lead to serious injury.

ADDITIONAL SAFETY WARNINGS SPECIFIC FOR CUTTING-OFF OPERATIONS

Do not "jam" the cut-off 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.

Do not position your body in line with and behind the rotating wheel. When the wheel, at the point of operation, is moving away from your body, the possible kickback may propel the spinning wheel and the power tool directly at you.

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 cut-off 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 minimize 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.

Do not attempt to do curved cutting. 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, which can lead to serious injury.

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.

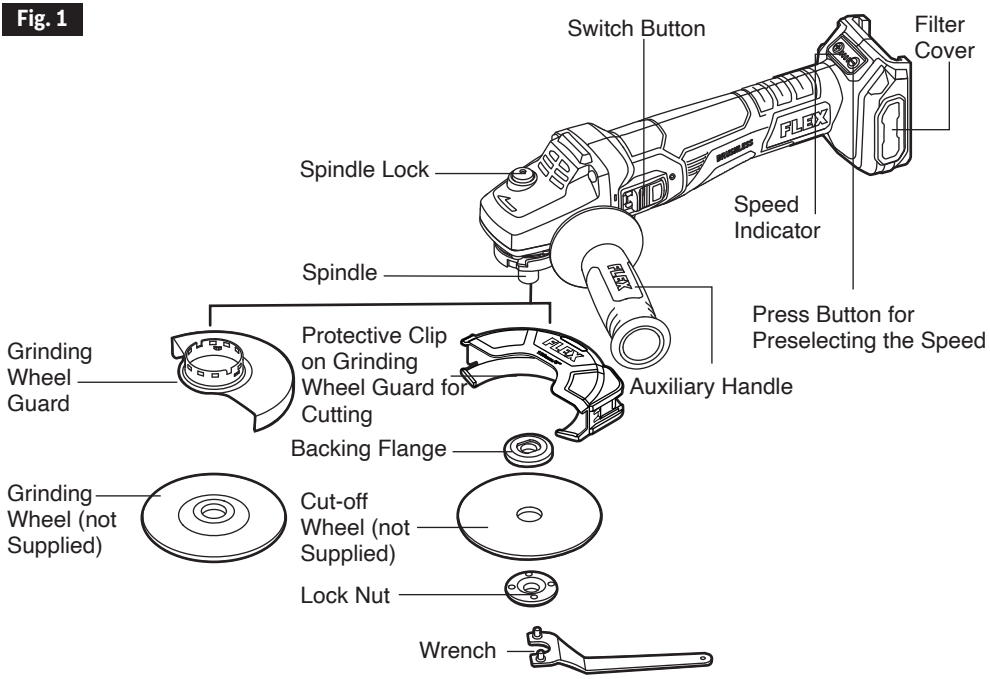
Symbol	Name	Designation/Explanation
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
kg	Kilograms	Weight
min	Minutes	Time
s	Seconds	Time
Wh	Watt-hours	Battery capacity
Ah	Ampere-hours	Battery capacity
ø	Diameter	Size of drill bits, grinding wheels, etc.
n_0	No load 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
0◢	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.
	Disposal information for the old machine	Do not throw electric power tools into the household waste!
	Read the instructions	Alerts user to read manual

Symbol	Name	Designation/Explanation
	Wear eye protection symbol	Alerts user to wear eye protection
	Always operate with two hands	Alerts user to always operate with two hands
	Do not use the guard for cut-off operations	Do not use the guard for cut-off operations
	Regulatory compliance mark	This product complies with applicable Australian standards.

FUNCTIONAL DESCRIPTIONS AND SPECIFICATIONS

Angle Grinder

Fig. 1



Model No.	FXA3181A
Rated Voltage	24 V d.c.
No Load Speed	3500/5000/7000/10000 /min
Wheel Diameter	Φ125 mm
Grinding Wheel Thickness	Max. 6 mm
Cut-off Wheel Thickness	Max. 3 mm
Wheel Type	Type 27 & Type 41
Spindle Thread	M14
Recommended operating temperature	-20 – 40°C
Recommended storage temperature	< 50°C

Intended Use

This angle grinder is intended for dry grinding or cutting metal or stone material, a special protective guard for cutting is required.

Not permissible are e.g. chainsaw discs, saw blades and diamond grinding discs.

⚠ 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.

⚠ WARNING **To reduce the risk of injury, always remove the battery pack before making any adjustments or changing accessories.**

TO ATTACH/DETACH BATTERY PACK (FIG. 2)

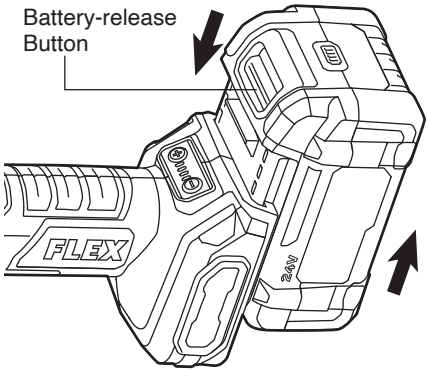
Be careful not to turn on the tool when attaching the battery pack.

To attach the battery pack:

Align the raised rib on the battery pack with the grooves in the tool, and then slide the battery pack onto the tool.

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.

Fig. 2



To detach the battery pack:

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.

WHEEL GUARD INSTALLATION (FIG. 3)

This tool is shipped with two guards. A guard must be used when using the tool as a grinder or cut-off tool.

⚠ WARNING **Keep the guard between you and the wheel. Do not direct the guard opening toward your body.**

a. Remove the battery pack from the tool.

b. Align the three raised ribs on the guard with the three notches on the collar. Place the guard onto the collar (1).

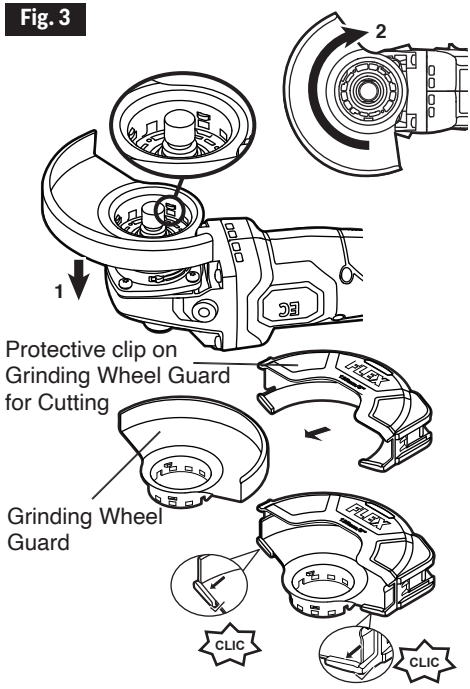
c. Turn the guard clockwise to the desired position (2).

Rotation is possible in one direction, only!

d. Remove in reverse order.

The protective clip on grinding wheel guard for cutting needs to be used in combination with the grinding wheel guard. Lock the two buckles of the protective clip on both sides of the grinding wheel guard installation port and listen for a “CLIC” sound to ensure that it is installed in place.

Fig. 3



NOTICE: Use only grinding wheels of the specified size with the grinding guard. Use only cut-off wheels of the specified size with the cutting guard.

GRINDING /CUT-OFF WHEEL ASSEMBLY

⚠ WARNING Turn the tool OFF and remove the battery pack before performing any assembly.

To install a wheel: (Fig. 4-6)

a. Remove the battery pack from the tool.

b. Place the backing flange on the spindle, making sure that the flat surfaces on the bottom of the backing flange are engaged with the flat surfaces on the spindle.

c. Place the grinding or cut-off wheel (not supplied) on the backing flange.

d. When installing a grinding wheel, position it so that the raised, small diameter portion of the lock nut faces the hole in the grinding wheel.

e. When installing a cut-off wheel, position it so that the flat surface faces the cut-off wheel

⚠ WARNING Do not reverse the lock nut. If the lock nut is not installed properly, the wheel cannot be properly tightened and serious injury can result.

f. While pressing the spindle lock, tighten the lock nut by turning it clockwise with the wrench supplied.

To remove the grinding/cut-off wheel:

a. Remove the battery pack from the tool.

b. While pressing the spindle lock, loosen the lock nut by turning it counter-clockwise with the wrench supplied.

⚠ WARNING Press the spindle lock only when the spindle is at a standstill.

⚠ WARNING Use protective gloves when removing the wheel from the tool, or first allow the wheel to cool down. It may be hot after prolonged use.

Fig. 4

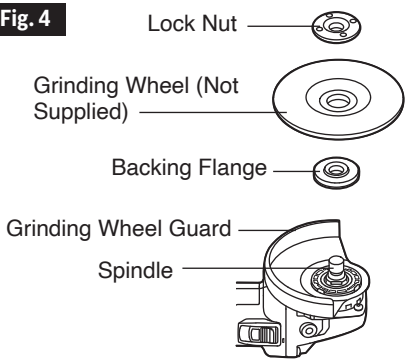


Fig. 5

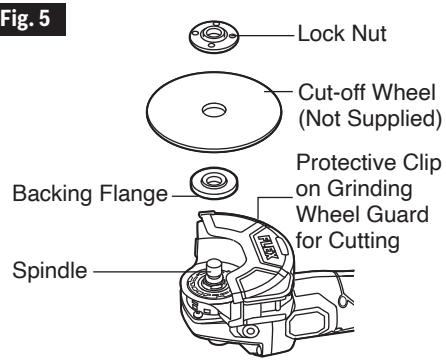
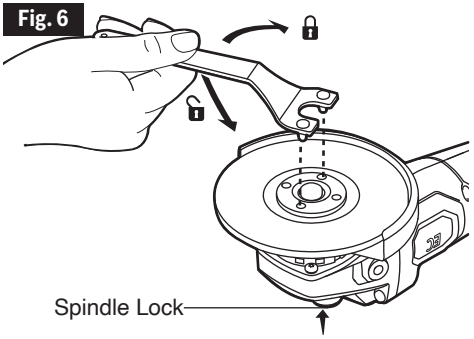


Fig. 6



FILTER COVER (FIG. 7)

Using the filter cover will improve the performance and extend the life of the tool.

a. Remove the battery pack.

b. To attach the filter cover, snap the filter cover onto the tool foot.

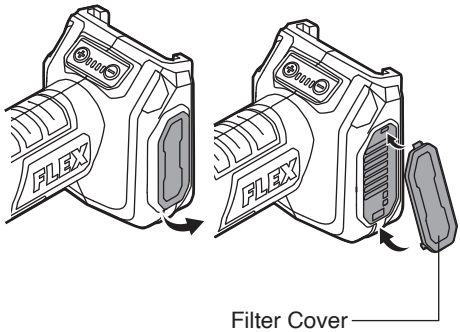
c. To remove the filter cover, insert a flathead screwdriver (not supplied) into the notch at the top of the filter cover and pry the filter cover away from the tool.

Clean the Filter cover

To clean the filter cover, tap it against a hard surface or blow it clean with compressed air.

⚠ WARNING To reduce the risk of injury, wear safety goggles or glasses with side shields.

Fig. 7

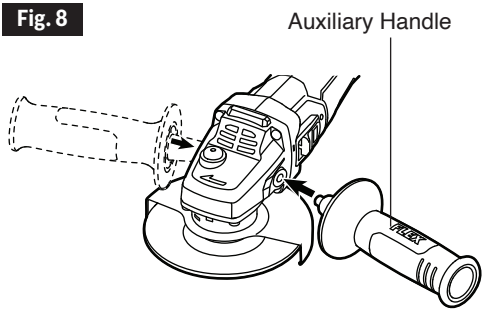


INSTALLING THE AUXILIARY HANDLE (FIG. 8)

The auxiliary handle, used to guide and balance the tool, can be threaded into the front housing on either side of the tool, depending on personal preference and comfort.

Thread the auxiliary handle into the desired position and securely tighten it in place.

Fig. 8



ADJUSTMENTS

PRESELECTING THE SPEED (FIG. 9)

NOTICE: This function is available only on model of FXA3181A.

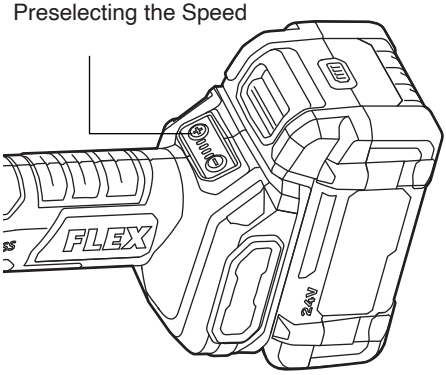
Your tool is equipped with a memory function. After turning the tool off, the tool will revert to the previous setting when it is turned on again.

Use the + or - button to increase or decrease the speed. Each press changes the speed one level. The table below shows the relationship between rotational speed and the number of LEDs that shine in the indicator on the foot of the tool.

The Number of LEDs ON OFF	Speed (/min)
▮ □ □ □	3500
▮ ▮ □ □	5000
▮ ▮ ▮ □	7000
▮ ▮ ▮ ▮	10000

⚠ WARNING **Never change speed setting while the tool is running for safety reasons.**

Fig. 9



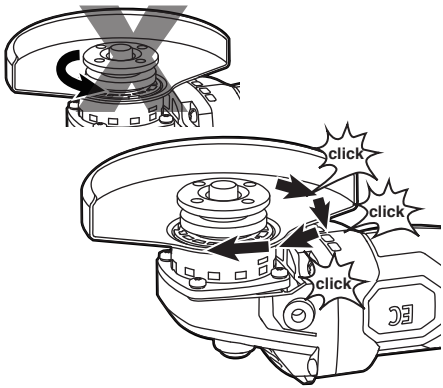
ADJUSTING THE GUARD (FIG. 10)

To adjust the tool to suit the task at hand, the guard hood can be adjusted by 12 notches or 360° without a tool.

⚠ WARNING **Risk of injury! Wear protective gloves.**

a. Remove the battery pack from the tool.
b. Turn guard opposite to the direction-of-rotation arrow on the gear head to the required position.

Fig. 10



⚠ WARNING **Battery tools are always in operating condition. Be careful when the tool is not in use or when carrying it at your side.**

SWITCH BUTTON

The tool can be turned “ON” with the switch button, located at the side of the motor housing.

The switch button can be locked in the “ON” position, a convenience for long grinding operations.

To turn the tool “ON” without locking it:

Slide the switch button forward by applying pressure ONLY at the REAR portion of the button.

When pressure is released the switch button will snap to the “OFF” position (Fig. 11-1).

To lock the switch “ON”:

Slide the switch button forward, then press on the FRONT portion of the button (Fig. 11-2).

To unlock the switch:

Simply press and release the REAR portion of the button.

The switch is spring loaded and will snap back automatically (Fig. 11-3).

⚠ WARNING **To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger 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 **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. 11-1

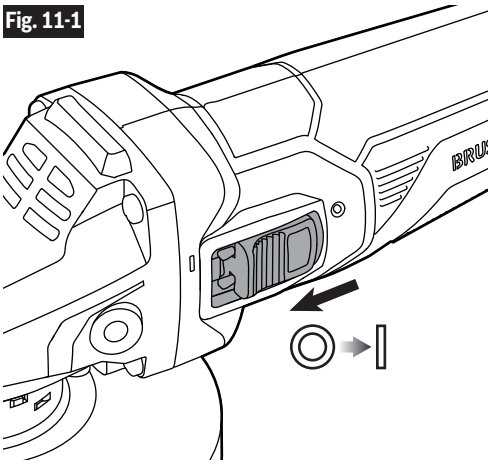


Fig. 11-2

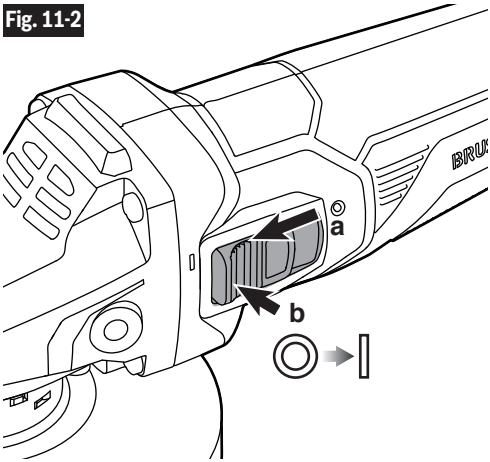
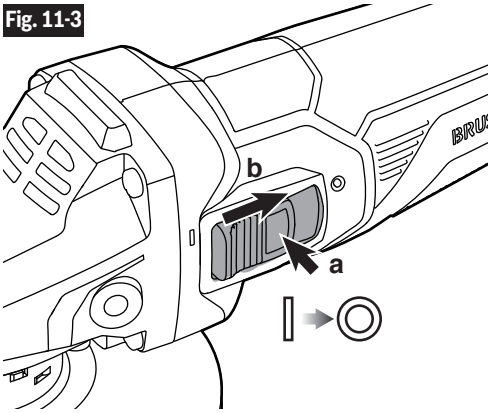


Fig. 11-3



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

This angle grinder must be used only with the FLEX 24V series battery packs and chargers

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

USING WITH GRINDING WHEEL (FIG. 12)

⚠ WARNING Always wear safety goggles or safety glasses with side shields during power tool operation. If the operation is dusty, also wear a dust mask.

⚠ WARNING A grinding guard must be installed when using a grindig wheel to provide maximum protection for the operator.

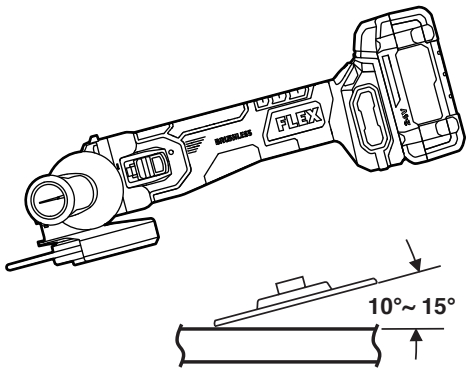
Check the grinding wheels before application. Discard wheels that have been dropped, bumped, subjected to extreme changes in temperature, or have come into contact with solvents or liquids.

a. Before beginning a period of work, test the tool by letting it spin for one minute before applying it to the workpiece.
b. Make sure that the workpiece is firmly clamped in place.
c. Hold the tool securely with both hands.
d. Start the tool.

NOTICE: If the battery is inserted when the tool switch is in the “ON” position, the tool will not run. Turn the tool off, then back on to begin work.

e. Allow the accessory to reach full speed before beginning work.
f. For a uniform finish, hold the tool at an angle of approximately 10° to 15° and apply (Fig.12) constant pressure. Too great an angle causes concentrated pressure on small areas, which may gouge or burn the work surface.

Fig. 12



g. Control the pressure and surface contact between accessory and workpiece.

⚠ WARNING Do not apply too much pressure. Too much pressure will cause the tool to overload and may cause personal injury.

h. When finished, turn off the tool and make sure that it comes to a complete stop before laying it down.

USING WITH CUT-OFF WHEEL (FIG. 13)

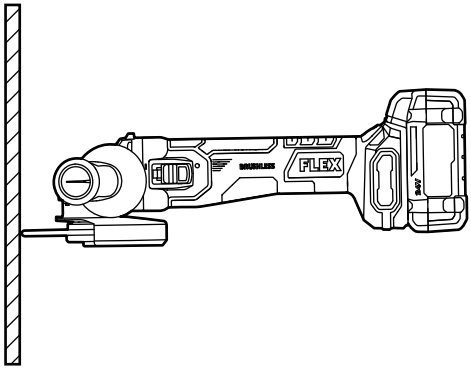
⚠ WARNING Always wear safety goggles or safety glasses with side shields during power tool operation. If operation is dusty, also wear a dust mask.

⚠ WARNING A protective clip on grinding wheel guard for cutting must be installed when using a cut-off wheel to provide maximum protection for the operator.

⚠ WARNING Using the cut-off wheel in a grinding operation will cause the wheel to crack and break, resulting in serious personal injury.

The cut-off wheel is suited for small cut-off operations only. When using a cut-off wheel, hold the tool as shown and use only the edge of the wheel.

Fig. 13



MAINTENANCE

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

SERVICE

⚠ WARNING Preventive maintenance performed by unauthorized 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 Authorized 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 authorized service centre for assistance.

CLEANING

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

ACCESSORIES

⚠ WARNING The use of any other accessories not specified in this manual may create a hazard.

Grinding Guard

(2) Flanges

Wrench

Anti-Vibration Handle

Clip-on Cutting Guard

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 FLEX24V Tools, FLEX24V 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 or by calling 1300 000 346 in Australia or www.flex-tools.co.nz or by calling 0508 000 346 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: 90Days
- 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 EST/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

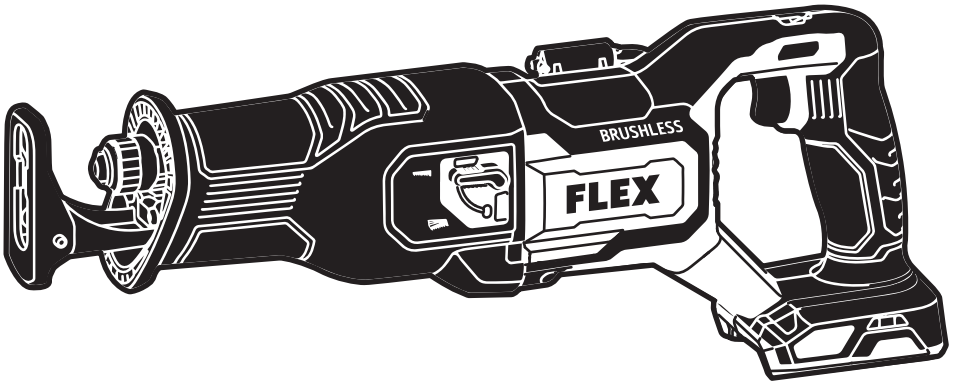
Chervon New Zealand Subsidiary Ltd
4th Floor, Smith & Caughey Building, 253 Queen St, Auckland, 1141.
Ph New Zealand; 0508 000 346. Email: support@flex-tools.com.au

	NON REGISTER	REGISTRATION WITHIN 30 DAYS OF PURCHASE
PRODUCT OR MODEL #	LIMITED STANDARD WARRANTY PERIOD	LIMITED WARRANTY PERIOD WITH REGISTRATION WITHIN 30 DAYS FROM DATE OF PURCHASE*
FLEX 24V Lithium-ion power tools	3 Years	5 Years
FLEX 24V Lithium-ion Batteries and Chargers	3 Years	5 Years
FLEX Accessories & Consumables	90 Days	90 Days
FLEX STACK PACK™ Storage system	1 Year	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

FLEX

OPERATOR'S MANUAL



Model: FXA2271

24V BRUSHLESS RECIPROCATING SAW

⚠ WARNING: To reduce the risk of injury, the user must read and understand the Owner'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 Owner'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 authorized service providers

SAFETY WARNINGS FOR RECIPROCATING SAW

Hold the power tool by insulated gripping surfaces, 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.

Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the workpiece by hand or against your body leaves it unstable and may lead to loss of control.

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.

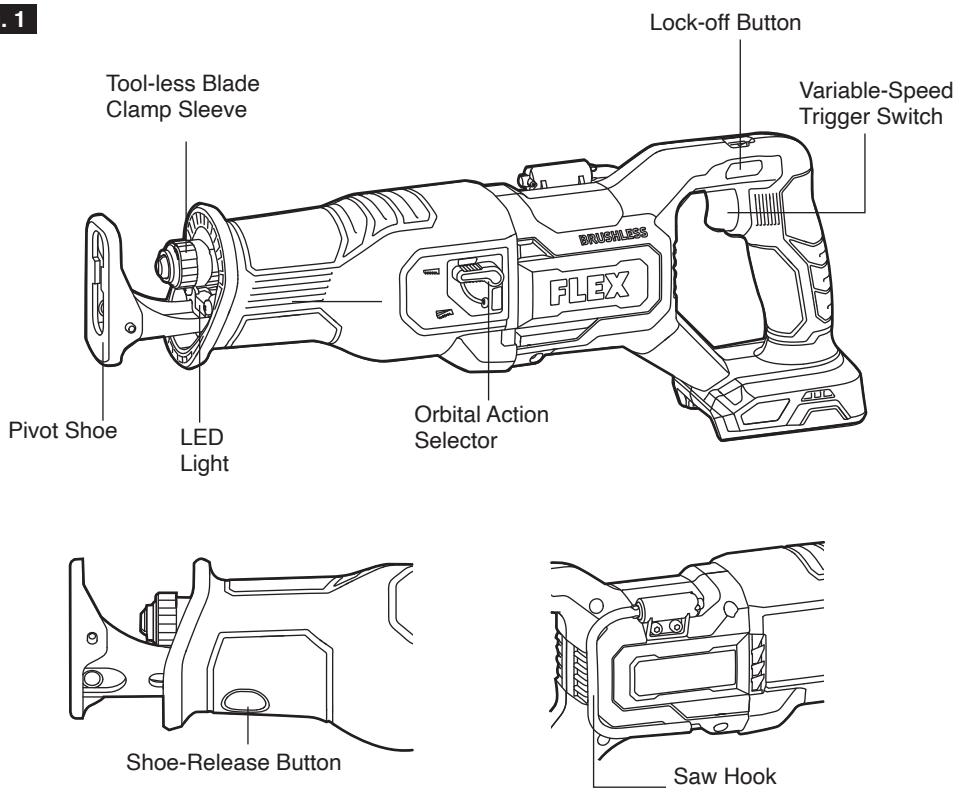
Symbol	Name	Designation/Explanation
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
kg	Kilograms	Weight
min	Minutes	Time
s	Seconds	Time
Wh	Watt-hours	Battery capacity
Ah	Ampere-hours	Battery capacity
ø	Diameter	Size of drill bits, grinding wheels, etc.
n_0	No load 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
0	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.
	Disposal information for the old machine	Do not throw electric power tools into the household waste!
	Read the instructions	Alerts user to read manual

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

FUNCTIONAL DESCRIPTIONS AND SPECIFICATIONS

Reciprocating Saw

Fig. 1



Model no.	FXA2271
Rated voltage	24 V d.c.
No load speed	0–3000 /min (strokes per minute)
Stroke	32 mm
Sawing capacity in wood	300 mm
Sawing capacity in metal pipe	150 mm
Recommended operating temperature	-20 – 40 °C
Recommended storage temperature	< 50 °C

Intended Use

This tool is intended for cutting wood product, plastic and metal materials.

ASSEMBLY

⚠ 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. 2)

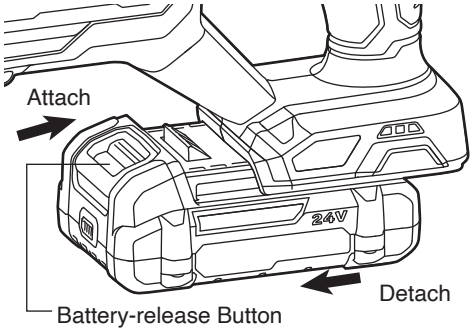
Depress the lock-off button to the locked position (Fig. 2).

To attach the battery pack:

Align the raised rib on the battery pack with the grooves in the tool, and then slide the battery pack onto the tool.

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.

Fig. 2



To detach the battery pack:

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.

INSTALLING AND REMOVING THE SAW BLADE

⚠ WARNING **Always lock the tool off and remove the battery pack before making any adjustments or assembling parts.**

Depress the lock-off button to the locked position and then remove the battery pack from the tool (Fig. 2).

TO INSTALL THE SAW BLADE (FIG. 3):

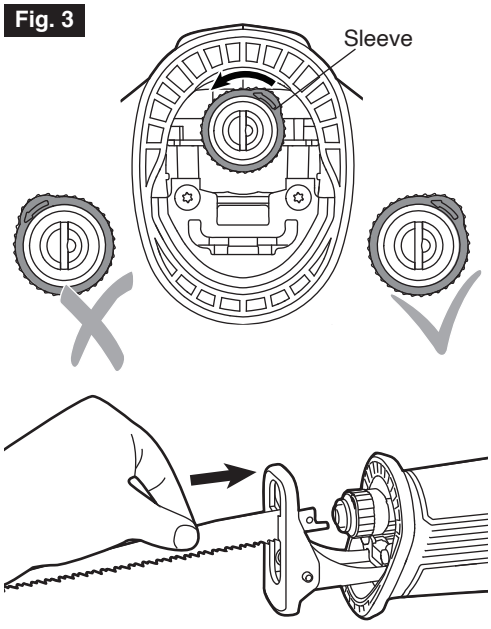
a. Check the status of the tool-less blade clamp, ensure that it is ready for installing saw blade, if not, turn the sleeve counterclockwise to open it.

b. Use one hand to hold the saw blade and align the shank of saw blade with the opening of the tool-less blade clamp. Use the other hand to hold the saw housing.

c. Insert the saw blade into the blade clamp as far as it can go, until the tool-less blade clamp sleeve returns to the locked positon automatically, and secures the blade in place.

d. Try to push in or pull out the blade to check whether it is locked properly.

Fig. 3



NOTICE: The blade may be installed with the teeth pointing up or down, depending on the cutting operation.

TO REMOVE THE SAW BLADE (FIG. 4):

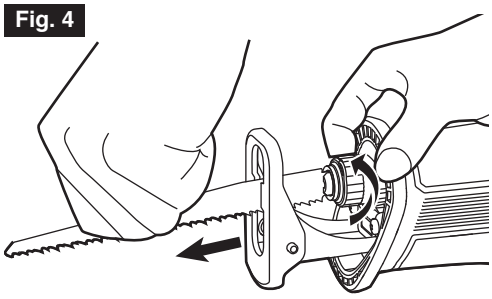
Rotate the tool-less blade clamp sleeve in the direction of the arrow marked on the blade clamp, the blade will get ejected out.

The tool-less blade clamp sleeve will stop in place for the future blade installation.

NOTICE: When removing the saw blade, make sure the saw blade does not point at any person or animal to avoid personal injuries.

NOTICE: Occasionally the tool-less blade clamp may retract into the saw housing. If this happens, reattach the battery pack and turn the tool on by pressing the variable-speed trigger switch to move the blade clamp into a more accessible position. Remove the battery pack again.

Fig. 4



ADJUSTMENTS

ORBITAL ACTION

Use the orbital-action selector to select either a straight cut or orbital cutting action. A straight cut is best for making smooth cuts and orbital cutting action is best for making a faster cut.

TO SELECT ORBITAL CUTTING ACTION / STRAIGHT CUT (FIG. 5):

a. Move the lock-off button to the locked position and then remove the battery pack from the tool.

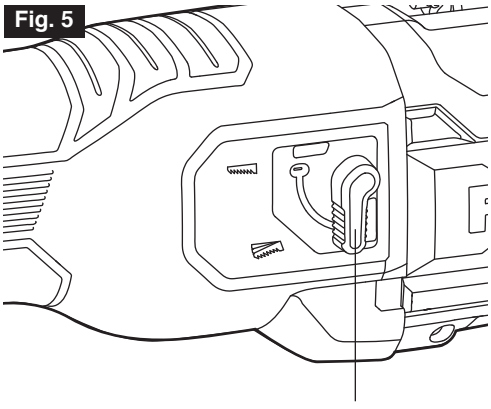
b. Turn the orbital-action selector to the " " position for orbital cutting action or

c. Turn the orbital-action selector to the " " position for straight cuts without orbital action.

NOTICE: To prevent damage to the tool, always allow the motor to come to a complete stop before using the orbital action selector.

NOTICE: Do not use the orbital cutting action setting when cutting a metal.

Fig. 5



Orbital-Action Selector

PIVOTING SHOE ADJUSTMENT (FIG. 6)

Your tool is equipped with a pivoting shoe that can slide in and out and stop in one of the three positions to adjust the effective stroke length for maximum control and longer blade life.

a. Depress the lock-off button to the locked position and remove the battery pack from the tool.

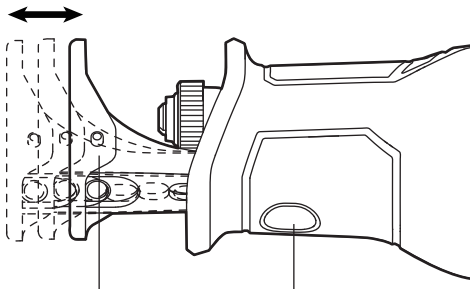
b. Use one hand to press the shoe-release button and hold it in place.

c. Use the other hand to slide the pivoting shoe to one of the three positions: the most distant position, the middle position and the closest positon.

d. Release the shoe-release button. When the shoe-release button springs back by itself, it indicates the pivoting shoe has been locked in place securely. Otherwise, slide the pivoting shoe in or out a little until the shoe-release button springs back.

⚠ WARNING **To avoid injury and damage, do not operate the saw without the pivoting shoe in place.** The blade clamp may strike against the workpiece and damage the reciprocating mechanism.

Fig. 6

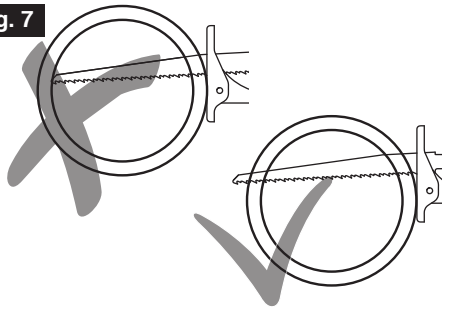


Pivoting Shoe

Shoe-Release Button

⚠ WARNING **To reduce the risk of injury, be sure the blade always extends beyond the footplate and work throughout the stroke.** Blades may shatter if the front on the blade hits the work and/or the footplate (Fig. 7).

Fig. 7



PIVOTING THE SHOE (FIG. 8)

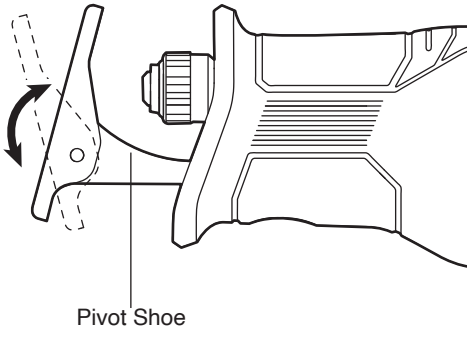
The shoe pivots to provide maximum control when it is aligned against the surface being cut.

a. Depress the lock-off button to the locked position and then remove the battery pack from the tool.

b. Firmly hold the saw and then pivot the shoe to the desired angle, while taking care to avoid contact with the blade.

c. Reinstall the battery and prepare to cut.

Fig. 8



SAW HOOK (FIG. 9)

Your tool is equipped with a hook. Use the hook to hang the saw from a rafter, or beam or other similar secure structure for temporary storage during work. Recommended lumber size to support the saw with the hook is 2x4.

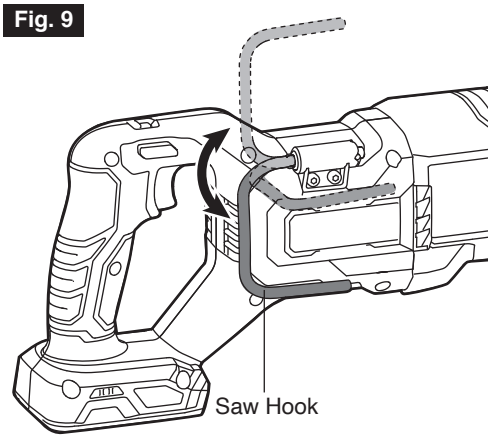
To use, lift the hook up until it snaps into the desired open position – there are two open positions available.

When not use, always lower 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 or anything that is not secure.** Personal injury or property damage may occur.

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

Fig. 9



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

OPERATING INSTRUCTIONS

⚠ WARNING To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger 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 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.

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

This reciprocating saw must be used only with the FLEX 24V series battery packs and chargers.

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

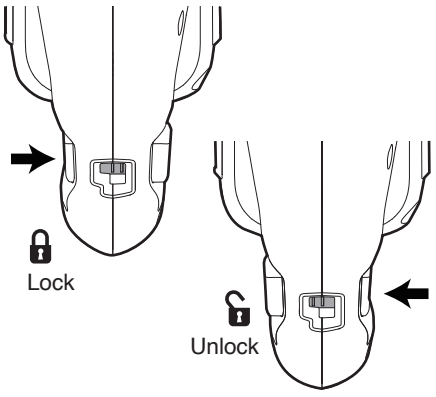
LOCK-OFF BUTTON (FIG. 10)

Your tool is equipped with a lock-off button, located above the variable-speed trigger switch, to prevent the saw from being activated unintentionally.

To lock the switch in the off position, depress the lock-off button from the left side until the icon is completely visible.

To unlock the switch, depress the lock-off button from the right side until the icon is completely visible.

Fig. 10

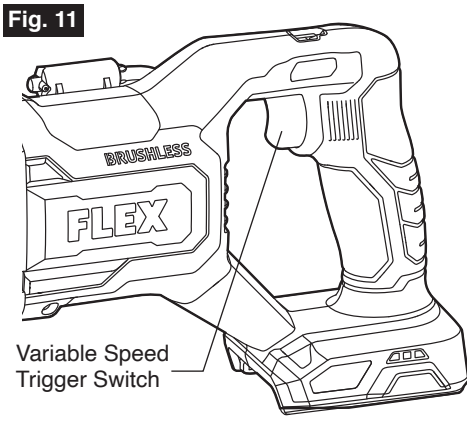


VARIABLE-SPEED TRIGGER SWITCH (FIG. 11)

Your tool is equipped with a variable-speed trigger switch. The tool can be turned “ON” or “OFF” by depressing or releasing the variable-speed trigger switch.

The variable-speed trigger switch delivers higher speed with increased trigger pressure and lower speed with decreased trigger pressure.

Fig. 11



LED LIGHT (FIG. 12)

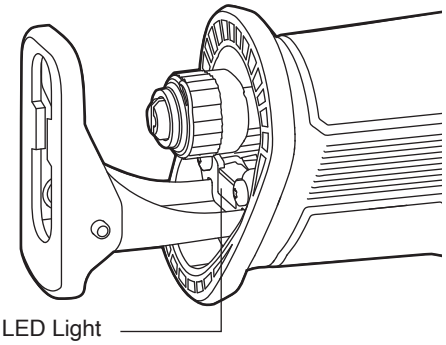
Your tool is equipped with an LED, located below the blade clamp on the tool. This LED provides additional light on the surface of the workpiece for operation in lower-light areas.

The LED will automatically turn on with a slight squeeze on the variable-speed trigger switch before the tool starts running, and will turn off approximately 10 seconds after the variable-speed trigger switch is released.

The LED will rapidly flash 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. Rest the tool for a while or place the tool and battery pack separately under air flow to cool them.

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

Fig. 12



If the LED fails to light up when you switch on the tool, or it turns off suddenly during operation, please contact customer service or an authorized service centre for assistance.

BLADE SELECTION

To obtain the best performance from the saw, it is important to select the correct blade for the particular application and type of material to be cut.

Blades with fewer teeth, e.g., 7 teeth per inch (TPI), are typically used for cutting wood; blades with more teeth per inch are better for cutting metal or plastic.

We recommend 14 TPI blades for plastics and soft metals and 18 TPI blades for hard metals.

GENERAL CUTTING (FIG. 13)

⚠ WARNING Do not allow familiarity with the saw to make you careless. One careless fraction of a second is enough to inflict serious injury.

⚠ WARNING Never use the wood-cutting blade for cutting metals. Failure to do so could result in serious personal injury.

⚠ WARNING Before attaching the battery pack onto the tool, always check to determine that the trigger switch performs properly and returns to the "OFF" position when released.

⚠ WARNING Hold the tool only by the plastic handle and the insulated grip area to help prevent electrical shock. When sawing into walls or floors you may encounter electrical wiring. Sawing into a "live" wire will conduct electricity into the tool.

a. Depress the lock-off button to the locked position and then remove the battery pack from the tool.

b. Make sure that the workpiece is firmly clamped in place to keep it from slipping or moving while cutting.

c. Install the appropriate type and size of blade for the workpiece material and size.

d. Adjust the pivoting shoe as necessary to make sure that the blade will extend beyond the shoe and through the workpiece at all times.

e. Adjust the pivoting shoe as necessary to expose unworn blade teeth for longer blade life.

f. Check for clearance behind the workpiece so that the blade will not contact another surface.

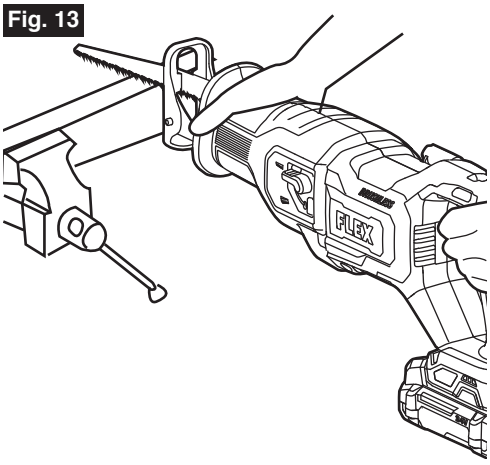
g. Mark the line of cut clearly. If cutting metal, apply cutting oil to the line.

h. Attach the battery pack to the reciprocating saw.

i. Hold the saw firmly with both hands. Make sure to keep your hands on the insulated gripping areas only.

j. Depress the lock-off button to the unlock position and squeeze the variable-speed trigger switch to start the saw and bring it to the maximum desired cutting speed before applying the blade to the workpiece.

Fig. 13



k. Place the shoe firmly on the workpiece while cutting. Use only enough steady pressure on the blade to keep the saw cutting. Do not force the tool.

l. Reduce the pressure as the blade comes to the end of the cut.

m. Allow the saw to come to a complete stop before removing the blade from the workpiece.

NOTICE: Cutting speeds should vary with the workpiece. Hard materials, such as metals, require lower speeds; use higher speeds for softer materials.

NOTICE: When sawing fiberglass, plaster, wallboard, or spackling compound, clean the motor vents frequently with a vacuum or with compressed air. These materials are highly abrasive and may accelerate the wear on motor bearings and brushes.

⚠ WARNING Always wear safety goggles when cleaning tools with compressed air.

⚠ WARNING Always wear safety goggles or safety glasses with side shields during power tool operation or when blowing dust. If operation is dusty, also wear a dust mask.

PLUNGE CUTTING (FIG. 14)

⚠ WARNING To reduce the risk of explosion, electric shock and property damage, always check the work area for hidden gas pipes, electrical wires or water pipes when making blind or plunge cuts.

⚠ WARNING To avoid loss of control and serious injury, make sure that the blade reaches the full desired speed before touching it to the workpiece.

⚠ WARNING Do not make plunge cuts in metal materials.

Your reciprocating saw is ideal for plunge cutting directly into surfaces that cannot be cut from an edge, such as in walls or floors. Plunge cutting may be done in two ways, depending on how the blade is inserted.

Fig. 14, A shows how to plunge cut with the teeth of the blade facing down.

Fig. 14, B shows how to plunge cut with the teeth of the blade facing up.

a. Depress the lock-off button to the locked position and then remove the battery pack from the tool.

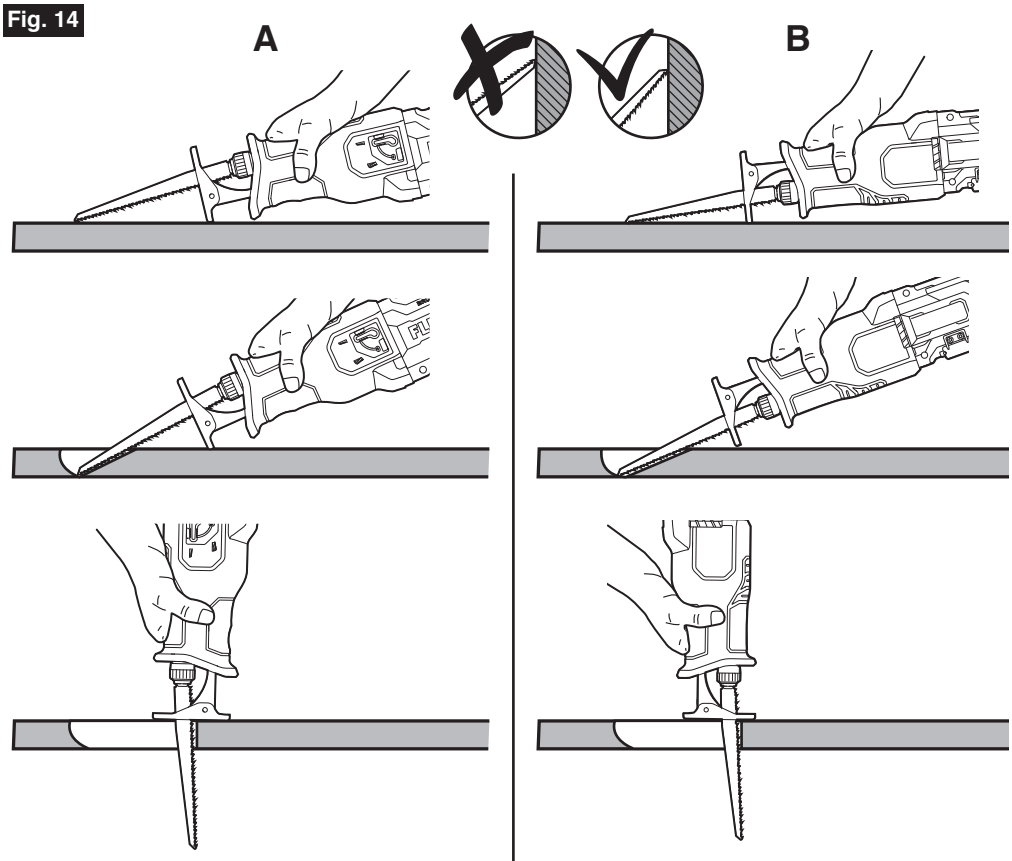
b. Make sure that the workpiece is firmly clamped in place to keep it from slipping or moving while cutting.

c. Select the appropriate type and size of blade for the workpiece material and size. Install the blade onto the tool.

d Adjust the pivot shoe as necessary to make sure that the blade will extend beyond the shoe and through the workpiece at all times.

e. Adjust the pivot shoe as necessary to expose unworn blade teeth for longer blade life.

Fig. 14



f. Check for clearance behind the workpiece so that the blade will not contact another surface.

g. Mark the line of cut clearly.

h. Attach the battery pack to the reciprocating saw.

i. If the blade is inserted with the teeth facing down, hold the tool as shown in Column A, resting the edge of the shoe on the workpiece.

NOTICE: To make plunge cutting easier, use a heavy gauge blade and install the blade with the teeth facing up relative to the normal upright operating position of the saw, as shown in Column B.

j. With the blade just above the workpiece, depress the lock-off button to the unlock position and squeeze the variable-speed trigger switch to start the tool. Allow it to come to the desired speed. Then, using the edge of the shoe as a pivot, lower the blade into the workpiece.

k. As the blade starts cutting, raise the handle of the tool slowly, until the shoe rests firmly and flat on the workpiece.

l. After the blade has penetrated through the workpiece, continue sawing along the marked cutting line.

m. Allow the saw to come to a complete stop before removing the blade from the workpiece.

METAL CUTTING

⚠ WARNING **Never use the wood-cutting blade for cutting metals.** Failure to do so could result in serious personal injury.

The saw can be used to cut metals, such as sheet steel, pipe, steel rods, aluminum, brass, and copper. Be careful not to twist or bend the saw blade. Do not force the tool.

The use of cutting oil is recommended when cutting soft metals and steel. Cutting oil will keep the blade cool, increase the cutting efficiency, and prolong blade life.

⚠ WARNING **To avoid possible serious injury:**

- **Never use gasoline as cutting lubricant, because normal sparking could ignite the fumes.**
- **Securely clamp the workpiece in position, and make the cut close to the clamping point to minimize vibration.**
- **When cutting conduit pipe or angle iron, clamp the work in a vise, if possible, and cut close to the vise.**
- **To cut thin sheet material, "sandwich" the material between pieces of hardboard or plywood, and clamp the layers together to reduce vibration and tearing of the material.**

MAINTENANCE

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

SERVICE

⚠ WARNING Preventive maintenance performed by unauthorized 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 Authorized 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 authorized service centre for assistance.

CLEANING

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

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 FLEX24V Tools, FLEX24V 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 or by calling 1300 000 346 in Australia or www.flex-tools.co.nz or by calling 0508 000 346 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: 90Days
- 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 EST/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

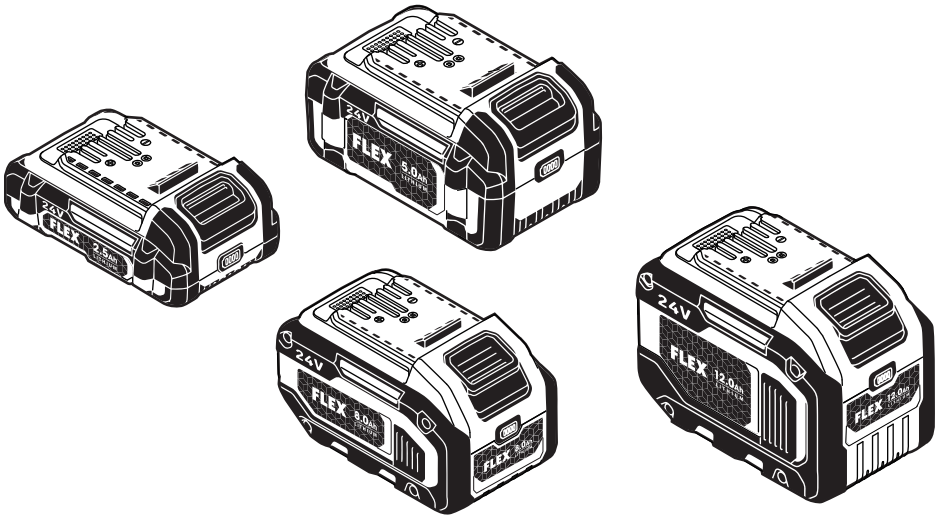
Chervon New Zealand Subsidiary Ltd
4th Floor, Smith & Caughey Building, 253 Queen St, Auckland, 1141.
Ph New Zealand; 0508 000 346. Email: support@flex-tools.com.au

	NON REGISTER	REGISTRATION WITHIN 30 DAYS OF PURCHASE
PRODUCT OR MODEL #	LIMITED STANDARD WARRANTY PERIOD	LIMITED WARRANTY PERIOD WITH REGISTRATION WITHIN 30 DAYS FROM DATE OF PURCHASE*
FLEX 24V Lithium-ion power tools	3 Years	5 Years
FLEX 24V Lithium-ion Batteries and Chargers	3 Years	5 Years
FLEX Accessories & Consumables	90 Days	90 Days
FLEX STACK PACK™ Storage system	1 Year	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

FLEX

OPERATOR'S MANUAL



Model: FXA0111/FXA0121/ FXA0221/FXA0231

24V 2.5AH/5.0AH/8.0AH/12.0AH LITHIUM BATTERY

⚠ WARNING: To reduce the risk of injury, the user must read and understand the Owner'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 Owner'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.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING **Read all safety warnings, instructions, illustrations and specifications.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

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.

Electrical safety

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

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 authorized service providers.

SPECIFIC SAFETY RULES

Before using battery, read all instructions and cautionary markings on (1) battery charger, (2) battery pack, and (3) product using battery.

Risk of fire and burns. Do not recharge, disassemble, heat above 130 °C, or incinerate. Keep battery out of reach of children and in original package until ready to use.

Battery tools do not have to be plugged into an electrical outlet; therefore, they are always in operating condition. Be aware of possible hazards when not using your battery tool or when changing accessories.

Do not place battery tools or their batteries near fire or heat. Charge battery pack within the required temperature range.

Store charger and battery pack in locations where temperature is within the recommended storage temperature range. This is important to prevent serious damage to the battery cells.

Do not crush, drop or damage the battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow. A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.

Do not insert battery pack in charger if battery pack case is cracked. Using damaged battery pack may result in electric shock or fire.

Batteries vent hydrogen gas and can explode in the presence of a source of ignition such as a pilot light. To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. An exploded battery can propel debris and chemicals. If exposed, flush with water immediately.

Do not recharge battery in damp or wet environment. Do not expose charger to rain or snow. Water entering battery charger may result in electric shock or fire.

Do not store outside or in vehicles.

Do not store battery pack in charger. Battery pack stored in charger over a long period of time could lead to battery pack damage and fire.

Battery leakage may occur under extreme usage or temperature conditions. Avoid contact with skin and eyes. The battery liquid is caustic and could cause chemical burns to tissues. If liquid comes in contact with skin, wash quickly with soap and water. If the liquid contacts your eyes, flush them with water for a minimum of 10 minutes and seek medical attention.

Do not let gasoline, oils, petroleum-based products, etc. come in contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.

Do not touch the uninsulated portion of output connector or uninsulated battery terminal. There is a risk of electric shock.

Replace battery pack if a substantial drop in operating time per charge is observed. Battery pack may be nearing the end of its life.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE.

SYMBOLS

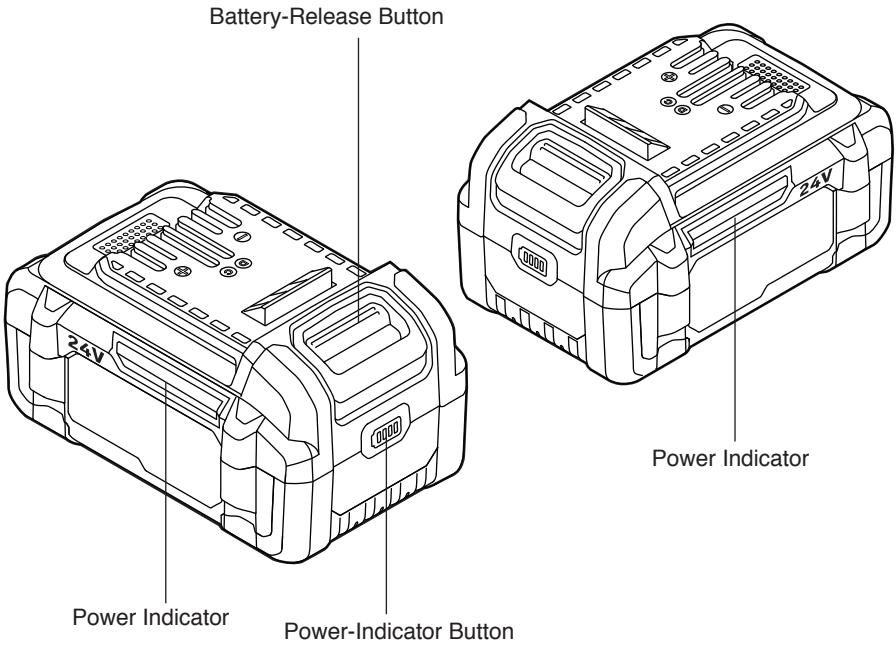
IMPORTANT: Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

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
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
~	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.
	Disposal information for the old machine	Do not throw electric power tools into the household waste!
	Read the instructions	Alerts user to read manual
	Wear eye protection symbol	Alerts user to wear eye protection
	Do not expose battery pack / battery cells to fire	Against continuous intense sunlight, fire, water, and moisture. Danger of explosion
	Do not expose battery packs / battery cells to heat in excess of 50°C	
	It must be recycled in conformity with environmental regulations	

FUNCTIONAL DESCRIPTIONS AND SPECIFICATIONS

Battery

Fig. 1



Model No.	FXA0111	FXA0121	FXA0221	FXA0231
Battery Capacity	2.5Ah	5.0Ah	8.0Ah	12.0Ah
Battery Voltage	24V d.c			
Battery Type	Lithium-Ion			
Charger Compatibility	FXA0421, FXA0431			
Recommended Charging Temperature	5 - 40 °C			
Recommended Storage Temperature	< 50 °C			

Note: Use of chargers or battery packs not sold by FLEX will void the warranty.

OPERATING INSTRUCTIONS

⚠ 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 Do not attempt to modify the battery pack or create accessories not recommended for use with this battery pack. Any such alteration or modification is misuse and could result in a hazardous condition leading to possibly serious personal injury.

POWER INDICATOR

This lithium-ion battery pack is equipped with power indicators on both sides of the battery pack that display the battery charge level. Press the power-indicator button on the front of battery pack to display the four LEDs in the power indicator. The LEDs will remain lit for approximately 10 seconds. It is recommended that the battery pack be reacharged to full charge before starting a big job or using it for long periods of time.

The power indicator can be used regardless whether the battery is attached or removed from tool.

LOW CAPACITY WARNING

If one LED on the power indicator begins to flash, the battery pack charge is under 10% capacity and should be recharged. Unlike other types of battery packs, lithium-ion battery packs deliver fade-free power for their entire run time. The tool will not experience a slow, gradual loss of power as it is used.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 or over-voltage, 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.

OVER-TEMPERATURE WARNING

The battery circuitry also protects the battery pack from overheating. To protect the battery pack from damage and prolong its life, the battery pack circuitry will send a warning signal to the tool if the temperature becomes too high during use. The first and third LEDs on the power indicator will rapidly flash green to warn of the over-temperature condition. This may happen in extremely high torque, binding, and stalling situations. The battery pack will begin normal operation after it has cooled down.

NOTICE: A significantly reduced run time after fully charging the battery pack indicates that the batteries are near the end of their usable life and must be replaced.

COLD WEATHER OPERATION

When the battery pack is very cold, the performance may be weakened. Put the battery pack on a tool and use the tool in a light application for a while to “warm up” the battery pack or place the battery pack in room temperature until it has warmed. The battery pack will operate normally.

TO CHARGE THE BATTERY PACK (FIG. 2)

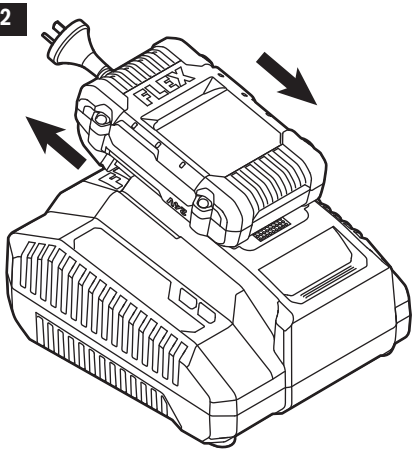
NOTICE: This lithium-ion battery pack is shipped partially charged. Before using it for the first time, fully charge the battery pack.

a. Always charge the battery pack with the correct charger.
b. Connect the charger to a power supply.
c. Attach the battery pack to the charger by aligning the raised ribs of the battery pack with the slot in the charger. Slide the battery pack onto the charger.
d. When the charger indicates that the battery pack is fully charged, remove it from the charger.

Please refer to the charger manual for detailed charging instructions.

NOTICE: If the battery pack cannot accept a charge, the contacts of the charger or battery pack may be contaminated. Clean the contacts of the charger or battery pack (e.g., by inserting and removing the battery several times or scrubbing with a cotton swab and alcohol), or replace the battery pack, as required.

Fig. 2



MAINTENANCE

SERVICE

⚠ WARNING Preventive maintenance performed by unauthorized personnel may result in misplacing of internal wires and components which could cause serious hazard. We recommend that all tool service be performed by a FLEX Factory Service Center or Authorized 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 authorized service center for assistance.

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

CLEANING

⚠ WARNING The tool may be cleaned most effectively with compressed dry air. **Always wear safety goggles when cleaning tools with compressed air.** 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.

BATTERY CARE

⚠ WARNING When batteries are not in tool or charger, keep them away from metal objects. For example, to protect terminals from shorting DO NOT place batteries in a tool box or pocket with nails, screws, keys, etc. Fire or injury may result.

DO NOT PUT BATTERIES INTO FIRE OR EXPOSE TO HIGH HEAT. They may explode.

BATTERY DISPOSAL

⚠ WARNING Do not attempt to disassemble the battery or remove any component projecting from the battery terminals. Fire or injury may result. Prior to disposal, protect exposed terminals with heavy insulating tape to prevent shorting.

Lithium-Ion Batteries: If equipped with a lithium-ion battery, the battery must be collected, recycled or disposed of in an environmentally sound manner.

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 FLEX24V Tools, FLEX24V 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 or by calling 1300 000 346 in Australia or www.flex-tools.co.nz or by calling 0508 000 346 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: 90Days
- 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 EST/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

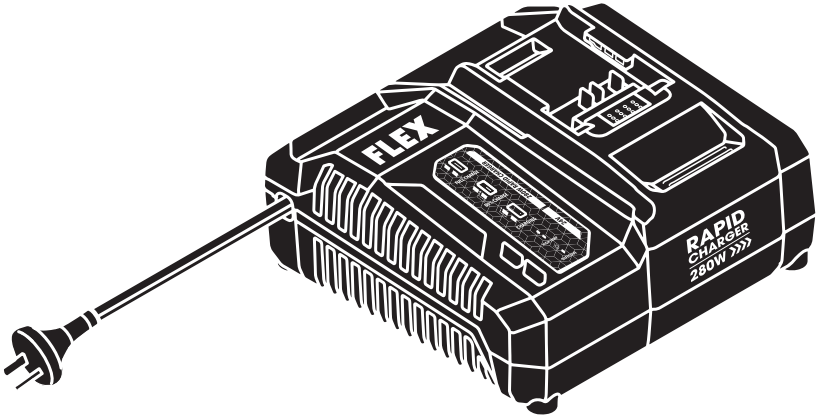
Chervon New Zealand Subsidiary Ltd
4th Floor, Smith & Caughey Building, 253 Queen St, Auckland, 1141.
Ph New Zealand; 0508 000 346. Email: support@flex-tools.com.au

	NON REGISTER	REGISTRATION WITHIN 30 DAYS OF PURCHASE
PRODUCT OR MODEL #	LIMITED STANDARD WARRANTY PERIOD	LIMITED WARRANTY PERIOD WITH REGISTRATION WITHIN 30 DAYS FROM DATE OF PURCHASE*
FLEX 24V Lithium-ion power tools	3 Years	5 Years
FLEX 24V Lithium-ion Batteries and Chargers	3 Years	5 Years
FLEX Accessories & Consumables	90 Days	90 Days
FLEX STACK PACK™ Storage system	1 Year	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

FLEX

OPERATOR'S MANUAL



Model: FXA0421

24V 280W CHARGER

⚠ **WARNING: To reduce the risk of injury, the user must read and understand the Owner'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.

SAVE THESE INSTRUCTIONS

This manual contains important safety and operating instructions for battery charger Model FXA0421. Do not substitute any other charger.

Before using battery charger, read all instructions and cautionary markings on (1) battery charger, (2) battery pack, and (3) product using battery.

⚠ CAUTION **To reduce risk of injury, charge only Li-Ion type rechargeable batteries.** Other types of batteries may burst causing personal injury and damage.

Charge only FLEX rechargeable batteries listed in the manual. Other types of batteries may burst causing personal injury and damage.

Charge battery pack within the required temperature range. Store charger and battery pack in locations where temperature is within the recommended storage temperature range. This is important to prevent serious damage to the battery cells.

Do not recharge battery in damp or wet environment. Do not expose charger to rain or snow. Water entering battery charger may result in electric shock or fire.

Battery leakage may occur under extreme usage or temperature conditions. Avoid contact with skin and eyes. The battery liquid is caustic and could cause chemical burns to tissues. If liquid comes in contact with skin, wash quickly with soap and water. If the liquid contacts your eyes, flush them with water for a minimum of 10 minutes and seek medical attention.

Place charger on flat nonflammable surfaces and away from flammable materials when recharging battery pack. Carpeting and other heat insulating surfaces block proper air circulation which may cause overheating of the charger and battery pack. If smoke or melting of the charger or battery pack is observed, unplug the charger immediately and do not use the battery pack or charger. Contact customer service immediately.

Keep the cord and charger from heat to prevent damage to housing or internal parts. Do not allow gasoline, oils, petroleum-based products, etc. to come in contact with plastic parts. These materials contain chemicals that can damage, weaken, or destroy plastic.

Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress. Damaged plug and cord may result in electric shock or fire.

Disconnect the charger by pulling the plug rather than the cord. Do not operate charger with damaged cord or plug; have them replaced immediately. Damaged plug or cord may result in electric shock or fire.

Do not insert battery pack in charger if battery pack case is cracked. Using damaged battery pack may result in electric shock or fire.

Do not disassemble charger or operate the charger if it has received a sharp blow, been dropped or otherwise damaged in anyway. Incorrect reassembly or damage may result in electric shock or fire.

Before each use, check the battery charger, cable and plug. If damage is detected, do not use the battery charger. Never open the battery charger yourself, take it to a FLEX Factory Service Center, or qualified serviceman only using original spare parts. Incorrect reassembly may result in electric shock or fire.

Do not touch the uninsulated portion of output connector or uninsulated battery terminal. There is a risk of electric shock.

Do not use attachment not recommended or sold by FLEX. Using attachments not recommended may result in electric shock or fire.

Do not store battery pack in charger. Battery pack stored in charger over a long period of time could lead to battery pack damage and fire.

Unplug charger from outlet before storage, attempting any maintenance or cleaning. Such preventive safety measures reduce the risk of electric shock or fire.

Keep the battery charger clean by blowing compressed air on charger vents and wiping the charger housing with a damp cloth. Contamination may result in electric shock or fire.

Replace battery pack if a substantial drop in operating time per charge is observed. Battery pack may be nearing the end of its life.

To reduce the risk of injury, close supervision is necessary when an appliance is used near children.

Do not use outdoors.

The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.

Children being supervised not to play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

SYMBOLS

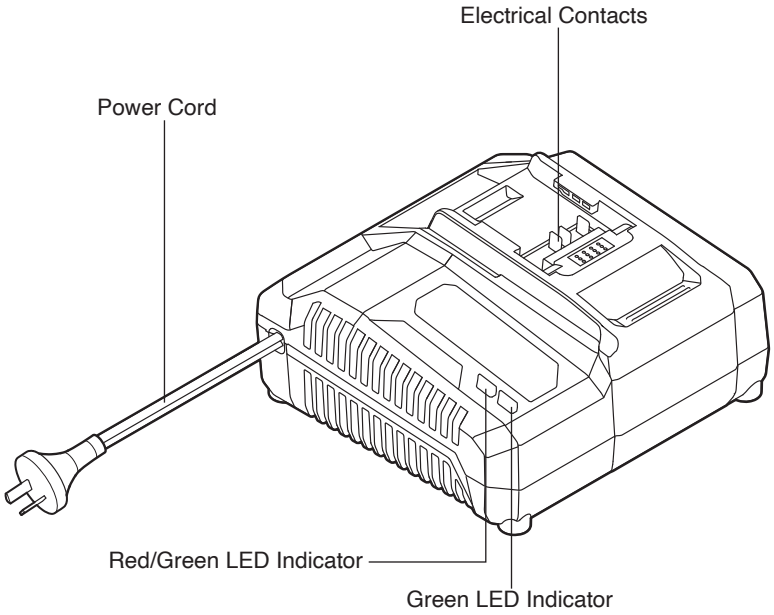
IMPORTANT: Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

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
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
	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.
	Disposal information for the old machine	Do not throw electric power tools into the household waste!
	Read operator's manual	To reduce the risk of injury, user must read operator's manual.
	Indoor use	Use this device indoors only
 T 6.3A	Fuse-links	Time-lag miniature fuse-link
	Regulatory compliance mark	This product complies with applicable Australian standards.

FUNCTIONAL DESCRIPTIONS AND SPECIFICATIONS

Fig. 1

Charger



Model No.	FXA0421															
Rated Input	220-240V ~, 50Hz, 280W															
Rated Output	24V ⎓ 9.4A															
Battery Compatibility	2.0Ah FXA0311		3.5Ah FXA0321		6.0Ah FXA0331		10.0Ah FXA0341		2.5Ah FXA0111		5.0Ah FXA0121		8.0Ah FXA0221		12.0Ah FXA0231	
Approximate Charging Time (minutes)	80%	100%	80%	100%	80%	100%	80%	100%	80%	100%	80%	100%	80%	100%	80%	100%
	16	18	15	20	30	35	50	55	25	30	25	30	40	50	60	75
Reco-mmended Charging Temperature	-7 - 45°C								5 - 40°C							
Recommended Storage Temperature	< 50°C															

NOTE: All charging times are subject to environmental temperature and the battery pack condition.

Intended Use

The battery charger is designed for charging FLEX 24V batteries. The battery voltage must match the battery charging voltage of the charger. Otherwise there is danger of fire and explosion.

IMPORTANT CHARGING NOTES

1. A substantial drop in operating time per charge may mean that the battery pack is nearing the end of its life and should be replaced.
2. Remember to unplug the charger during storage.
3. If battery does not charge properly:

   a.Check for power at the outlet by plugging another electrical device into the outlet.

   b.Check to see if outlet is connected to a light switch that turns power “off” when the lights are turned off.

   c.Check the battery pack terminals for dirt. Clean with a cotton swab and alcohol, if necessary.

   d.If proper charging still does not occur, take or send the tool, battery pack and charger to your local FLEX Service Center. Please refer to the Customer Service information on the cover of this manual.

NOTE: Use of chargers or battery packs not sold by FLEX will void the tool warranty.

OPERATING INSTRUCTIONS

⚠ 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 Do not attempt to modify the charger or create accessories not recommended for use with this charger. Any such alteration or modification is misuse and could result in a hazardous condition leading to possibly serious personal injury.

HOW TO CHARGE THE BATTERY PACK (FIG. 2)

⚠ WARNING Do not use the charger outdoors or expose it to wet or damp conditions. Water entering the charger will increase the risk of electric shock.

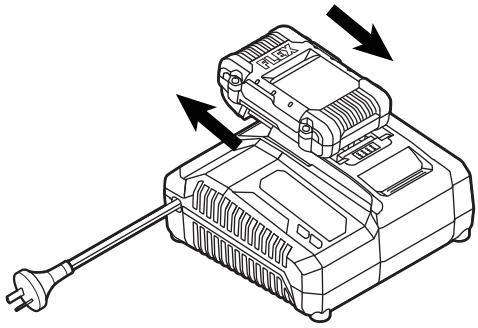
NOTICE: Lithium-Ion battery packs are shipped partially charged. Before using it the first time, fully charge the battery pack.

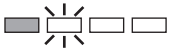
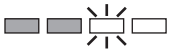
a. Connect the charger to the power supply (220 - 240V~, 50Hz). When connected to the power supply, the green and red LED indicators on the charger will flash once at the same time and then go out, indicating that the charger self-inspection is completed.

b. Align the raised ribs of the battery pack with the slots in the charger and slide the battery pack onto the charger

c. The charger will communicate with the battery pack to evaluate the condition of the battery pack.

Fig. 2



Battery Pack Charge Status	Power Indicator	
<25%		Last segment flashing, the rest are solid
25%-50%		
50%-75%		
≥75%		

d. When the battery pack is charging, the green LED will flash. The power indicator on the battery will flash according to the current capacity level. The fan in the charger continuously works to cool the battery pack.

e. Once the battery is 80% charged, the green LED shows solid green, the red/green LED starts flashing green. When the battery pack is fully charged, the red/green LED will remain green without flashing. The power indicator on the battery pack will go out.

f. The battery pack will fully charge if left on the charger, but it will not overcharge.

NOTICE: A significantly reduced run time after fully charging the battery pack indicates that the battery is near the end of its usable life and must be replaced.

The charger may become warm during charging. This is part of the normal operation of the charger. Charge in a well-ventilated area.

Charger Display

Mode	Green LED on the Charger	Red/Green LED on the Charger	Power Indicator on the Battery Pack	Note
Self-inspection completed	Flashing once	Flashing red once	Off	Red and Green LED flash once at the same time
Self-inspection failed	Off	Off	Off	No reaction when the charger is plugged in
Standby	Off	Off	Off	Plugged in; battery pack is not on the charger
Charging	Flashing	Off	Flashing according to the current capacity level.	Battery is less than 80% charged
	Steady	Flashing green		Battery is 80% charged
Full charge	Steady	Steady	Off	
Cold/Hot battery	Off	Steady	Off	Remove the battery pack from the charger
Error	Off	Flashing red or off	Off	Battery pack or charger error

CHARGING A HOT OR COLD BATTERY PACK

A steady red LED indicates that the battery is over or under the optimal temperature. Remove the battery pack from the charger. If the battery is too hot, cool the battery under air flow. If the battery is too cold, place it indoors until it reaches room temperature.

CHARGER ERROR

If the charger self-inspection fails to react when the charger is plugged in, the causes include no power to the charger, bad contacts, or a charger error. Check to see if the charger self-inspection can be activated when the charger is plugged in again or plugged into a different outlet. If it still fails, have the charger serviced by an Authorized FLEX Service Station.

BATTERY PACK ERROR

If the charger detects a problem, the red/green LED will begin flashing red. Remove and re-insert the battery pack in the charger. If the red/green LED still flashes red, try charging a different battery pack.

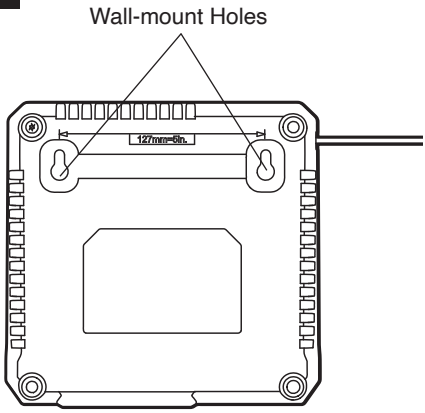
a) If a different battery pack charges normally, have the first malfunctioning battery pack serviced by an Authorized FLEX Service Station.

b) If a different battery pack also indicates an error, the charger may be malfunctioning. Have the charger serviced by an Authorized FLEX Service Station.

WALL-MOUNT HOLES (FIG. 3)

The charger has wall-mount holes for convenient storage. Install screws in the wall 127 mm apart. Use screws sufficiently strong to hold the combined weight of the charger and battery pack.

Fig. 3



MAINTENANCE

SERVICE

⚠ WARNING Preventive maintenance performed by unauthorized personnel may result in misplacing of internal wires and components which could cause serious hazard. We recommend that all tool service be performed by a FLEX Factory Service Center or Authorized 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. Securely tighten all fasteners and caps and do not operate this product until all missing or damaged parts are replaced. Please contact customer service or an authorized service center for assistance.

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

CLEANING

⚠ WARNING The tool may be cleaned most effectively with compressed dry air. **Always wear safety goggles when cleaning tools with compressed air.**

Ventilation openings and switch selectors 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.

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 FLEX24V Tools, FLEX24V 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 or by calling 1300 000 346 in Australia or www.flex-tools.co.nz or by calling 0508 000 346 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: 90Days
- 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 EST/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

	NON REGISTER	REGISTRATION WITHIN 30 DAYS OF PURCHASE
PRODUCT OR MODEL #	LIMITED STANDARD WARRANTY PERIOD	LIMITED WARRANTY PERIOD WITH REGISTRATION WITHIN 30 DAYS FROM DATE OF PURCHASE*
FLEX 24V Lithium-ion power tools	3 Years	5 Years
FLEX 24V Lithium-ion Batteries and Chargers	3 Years	5 Years
FLEX Accessories & Consumables	90 Days	90 Days
FLEX STACK PACK™ Storage system	1 Year	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