

**triton**

**Circular Saw 165mm**

**XT** 165CCSB

**XT18**



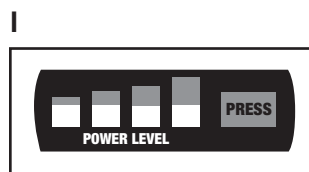
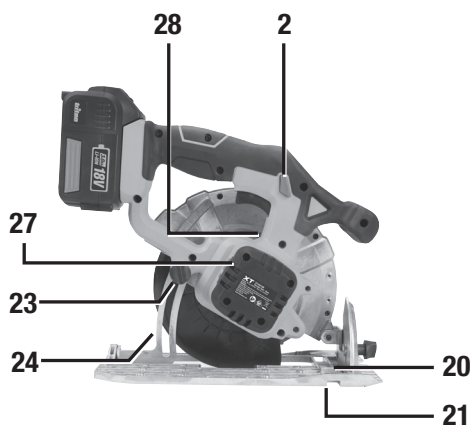
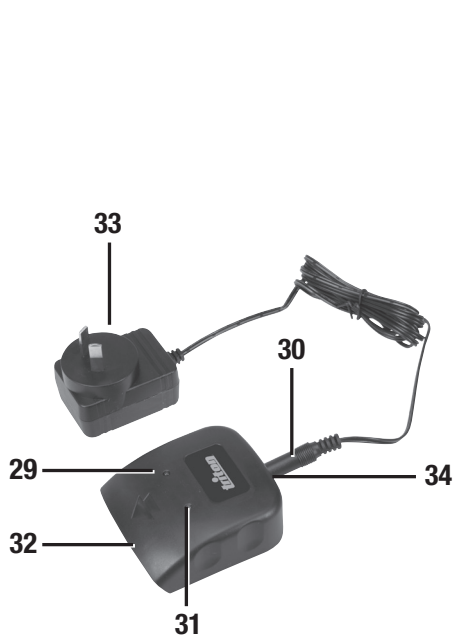
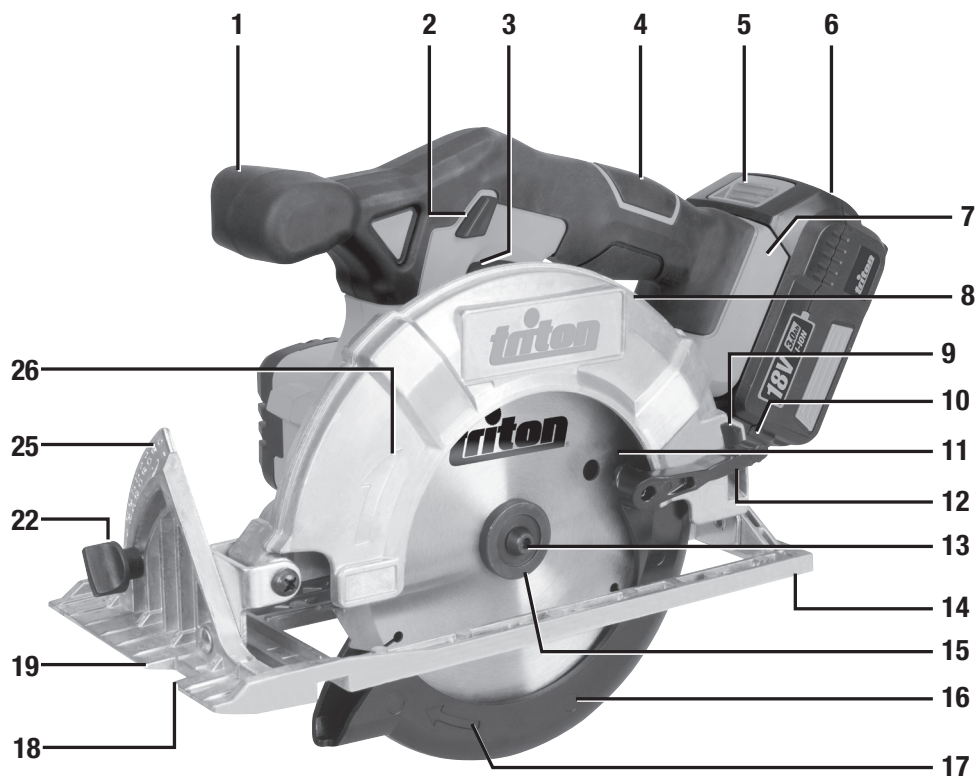
BORN IN AUSTRALIA

Est. 1976

***tritontools.com***






















*Thank you for purchasing this Triton tool. This manual contains information necessary for safe and effective operation of this product. This product has unique features and, even if you are familiar with similar products, it is necessary to read this manual carefully to ensure you fully understand the instructions. Ensure all users of the tool read and fully understand this manual.*


## Description of Symbols

	Wear hearing protection Wear eye protection Wear breathing protection Wear head protection
	Wear hand protection
	Read instruction manual
	Wear protective shoes
	Wear protective clothing
	Be aware of kickback!
	Warning: Sharp blades or teeth!
	DO NOT use in rain or damp environments!
	Do not touch the blades before the machine is disconnected from the supply and the blades have come to complete stop.
	WARNING: Moving parts can cause crush and cut injuries
	Caution!
	Important safety devices! Ensure correct function, maintain in accordance with instructions and DO NOT disable!
	Class II construction (charger)
	Environmental Protection Waste electrical products and batteries, including Li-ion batteries, should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.
	Conforms to relevant legislation and safety standards.

## Technical Abbreviations Key

<b>V</b>	Volts
<b>~, a.c.</b>	Alternating current
<b>A, mA</b>	Ampere, milli-Amp
<b><math>n_0</math></b>	No load speed
<b><math>\varnothing</math></b>	Diameter
<b>°</b>	Degrees
<b><math>\lambda</math></b>	Wavelength
<b>Hz</b>	Hertz
<b>—, d.c.</b>	Direct current
<b>W, kW</b>	Watt, kilowatt
<b>/min or min<sup>-1</sup></b>	Operations per minute
<b>Ah</b>	Amp hours (battery capacity)
<b>dB (A)</b>	Decibel sound level (A weighted)
<b>m/s<sup>2</sup></b>	Metres per second squared (vibration magnitude)

# Specification

Model number:	XT165CCSB
Voltage:	18V d.c.
No load speed:	3800min <sup>-1</sup>
Blade size:	Ø165mm
Blade bore:	Ø16mm
Supplied blade:	Ø165 x Ø16 x 2.0 x 1.3mm x 24T
Max depth of cut:	52mm (0°) 36mm (45°)
Bevel Range:	0-45°
Dimension(H x L x W):	230 x 190 x 390mm
Weight:	2.465kg
<b>Battery</b>	
Cell type:	Li-Ion
Voltage:	18V, d.c.
Capacities:	1.5Ah (XT15AHB), 2.0Ah (XT2AHB), 3.0Ah (XT3AHB) & 4.0Ah (XT4AHB)
Charging times (XT35C charger):	3-5hrs (1.5Ah & 2.0Ah), 5-7hrs (3.0Ah & 4.0Ah)
• Batteries supplied will vary depending on pack configuration	
<b>Battery Charger PSU</b>	
Model No:	XT35C
Input Voltage:	230-240V ~ 50/60Hz, 13W
Power output:	22.7V d.c. 380mA
Protection class:	
Length of power cord:	2m
<b>Battery Charger</b>	
Input Voltage:	22.7V d.c.
Output Voltage:	14.4-18V d.c.
Battery Compatibility:	XT 18V
As part of our ongoing product development, specifications of Triton products may alter without notice.	
<b>Sound and vibration information</b>	
Sound pressure L <sub>pa</sub> :	99dB(A)
Sound power L <sub>wa</sub> :	110dB(A)
Uncertainty K:	3dB(A)
Weighted vibration:	5.26m/s <sup>2</sup>
Uncertainty:	1.5m/s <sup>2</sup>
The sound intensity level for the operator may exceed 85dB(A) and sound protection measures are necessary.	

**WARNING:** Always wear ear protection where the sound level exceeds 85dB(A) and limit the time of exposure if necessary. If sound levels are uncomfortable, even with ear protection, stop using the tool immediately and check the ear protection is correctly fitted and provides the correct level of sound attenuation for the level of sound produced by your tool.

**WARNING:** User exposure to tool vibration can result in loss of sense of touch, numbness, tingling and reduced ability to grip. Long term exposure can lead to a chronic condition. If necessary, limit the length of time exposed to vibration and use anti-vibration gloves. Do not operate the tool with hands below a normal comfortable temperature, as vibration will have a greater effect. Use the figures provided in the specification relating to vibration to calculate the duration and frequency of operating the tool.

Sound and vibration levels in the specification are determined according to EN60745 or similar international standards. The figures represent normal use for the tool in normal working conditions. A poorly maintained, incorrectly assembled, or misused tool, may produce increased levels of noise and vibration. [www.osha.europa.eu](http://www.osha.europa.eu) provides information on sound and vibration levels in the workplace that may be useful to domestic users who use tools for long periods of time.

## General Safety

**WARNING** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

**WARNING:** This appliance is not intended for use by persons (including children) with reduced, physical or mental capabilities or lack of experience or knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children must be supervised to ensure that they do not play with the appliance.

Save all warnings and instructions for future reference.

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

### 1) Work area safety

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

### 2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.**
- b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.**
- c) **Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.**
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.**
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.**
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.**
- g) **When used in Australia or New Zealand, it is recommended that this tool is ALWAYS supplied via Residual Current Device (RCD) with a rated residual current of 30mA or less.**

### 3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.**
- b) **Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.**
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.**
- d) **Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.**
- e) **Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.**
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.**
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.**

### 4) Power tool use and care

- a) **Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.**
- b) **Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.**
- c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.**
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.**

- e) **Maintain power tools.** Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

## 5) Battery tool use and care

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

## 6) Service

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

# Circular Saw Safety

## Cutting procedures

- a) **⚠ 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.
- b) **Do not reach underneath the workpiece.** The guard cannot protect you from the blade below the workpiece.
- c) **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.
- d) **Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform.** It is important to support the work properly to minimise body exposure, blade binding, or loss of control.
- e) **Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will also make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- f) **When ripping, always use a rip fence or straight edge guide.** This improves the accuracy of cut and reduces the chance of blade binding.
- g) **Always use blades with correct size and shape (diamond versus round) of arbour holes.** Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- h) **Never use damaged or incorrect blade washers or bolts.** The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

# Further Safety Instructions for all Saws

## Kickback causes and related warnings

- Kickback is a sudden reaction to a pinched, bound 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 bound 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.**

- a) **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.
- b) **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.**

- c) **When restarting a saw in the workpiece, centre the saw blade in the kerf and check that saw teeth are not engaged into the material.** If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
- d) **Support large panels to minimise 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.
- e) **Do not use dull or damaged blades.** Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- f) **Blade depth and bevel adjusting locking levers must be tight and secure before making cut.** If blade adjustment shifts while cutting, it may cause binding and kickback.
- g) **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

- a) **Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.** If saw is accidentally dropped, 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.
- b) **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.
- c) **Lower guard may be retracted manually only for special cuts such as "plunge cuts" and "compound cuts".** Raise lower guard by retracting handle and as soon as blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.
- d) **Always observe that the lower guard is covering the blade before placing 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.

# Additional Circular Saw Safety

**WARNING:** Before connecting a tool to a power source (mains switch power point receptacle, outlet, etc.) be sure that the voltage supply is the same as that specified on the nameplate of the tool. A power source with a voltage greater than that specified for the tool can result in serious injury to the user, and damage to the tool. If in doubt, do not plug in the tool. Using a power source with a voltage less than the nameplate rating is harmful to the motor.

- a) Do not allow anyone under the age of 18 years to operate this saw
- b) When operating the saw, use safety equipment including safety goggles or shield, ear protection, dust mask and protective clothing including safety gloves
- c) Hand-held power tools may produce vibration. Vibration can cause disease. Gloves may help to maintain blood circulation in the fingers. Hand-held tools should not be used for long periods without a break
- d) Whenever possible, use a vacuum dust extraction system to control dust/waste
- e) Do not attempt to cut material thicker than detailed in the Specifications section of this manual
- f) Adjust the cutting depth to the thickness of the workpiece i.e. less than a full tooth of the blade should be visible below the workpiece
- g) Ensure work is correctly supported. Large panels may sag under their own weight and bind the saw blade. Supports must be placed under the panel on both sides, close to the line of cut and near the edge of the panel
- h) Ensure all supports and power cables are completely clear of the cutting path
- i) Always secure the workpiece to a stable platform, ensuring body exposure is minimised, avoiding blade binding, or loss of control
- j) Always stand at an angle to the tool when operating
- k) Be aware that the blade will project from the underside of the workpiece
- l) Do not reach beneath the workpiece where the guard cannot protect you from the blade
- m) Note the direction of rotation of the motor and the blade
- n) Inspect the workpiece and remove all nails and other embedded objects prior to starting work
- o) Do not apply any sideways or twisting force to the blade whilst cutting
- p) If a cut does not extend to the edge of the workpiece, or if the blade binds in the cut, allow the blade to come to a complete stop and lift the saw out of the workpiece
- q) Do not attempt to free a jammed blade before first disconnecting the machine from power
- r) Do not move the saw backwards at any time whilst cutting
- s) Beware of projected waste. In some situations, waste material may be projected at speed from the cutting tool. It is the user's responsibility to ensure other people in the work area are protected from the possibility of projected waste
- t) If you are interrupted when operating the saw, complete the process and switch off before diverting your attention
- u) Check the lower guard for proper closure 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
- v) Always observe that the lower guard is covering the blade before resting the saw on a surface after use. An unprotected, coasting blade will cause the saw to move backwards,

cutting whatever is in its path. Be aware of the time it takes for the blade to stop after the trigger switch is released

- w) Periodically check that all nuts, bolts and other fixings have not become loose, and tighten where necessary

**The tool must be used only for its prescribed purpose. Any use other than those mentioned in this manual will be considered a case of misuse. The user, and not the manufacturer, shall be liable for any damage or injury resulting from such cases of misuse.**

*The manufacturer shall not be liable for any modifications made to the tool nor for any damage resulting from such modifications. Even when the tool is used as prescribed it is not possible to eliminate all residual risk factors.*

## Battery Safety

**⚠ WARNING:** Li-Ion batteries, if incorrectly used, stored or charged are a fire, burn and explosion hazard.

- Keep the battery out of reach of children
- **ONLY** charge Li-Ion batteries using the charger provided or designed specifically for your product
- **ONLY** use Li-Ion batteries provided with a product or specifically designed to be compatible
- Allow batteries to cool for 15 minutes after charging or heavy use. Failure to follow these instructions may cause overheating or fire
- When not in use batteries should be stored at room temperature (approximately 20°C)
- Ensure that battery contacts cannot accidentally short in storage. Keep batteries clean; foreign objects or dirt may cause a short. Keep away from other metal objects, for example, paperclips, coins, keys, nails and screws
- Under abusive conditions, liquid may be ejected from the battery. This liquid may cause skin irritation or burns. Avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, seek medical help
- DO NOT open, disassemble, crush, heat above 60°C or incinerate. Do not dispose of in fire or similar

## Battery Charger Safety

**Use the battery charger correctly**

- Refer to the section of this manual relating to use of the battery charger before attempting to charge the battery.
- Do not attempt to use the charger with any batteries other than those supplied. Keep your battery charger clean; foreign objects or dirt may cause a short or block air vents. Failure to follow these instructions may cause overheating or fire
- 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
- Examine the battery charger regularly for damage, especially the cord, plug and enclosure. If the battery charger is damaged, it must not be used until it has been repaired
- Children should be supervised to ensure that they do not play with the appliance

**WARNING:** DO NOT attempt to recharge non-rechargeable batteries.

## Battery and charger safety features

The battery and charger are fitted with a number of safety features which may be triggered during charging or operation:

- Over-charge protection: Charger automatically switches off when the battery has reached full charge capacity, protecting the internal components of the battery
- Over-discharge protection: Prevents the battery from discharging beyond the recommended lowest safety voltage
- Over-heat protection: Sensor switches off if the battery becomes too hot during operation. This can happen if the tool is overloaded or being used for extended periods of time. Up to 30 minutes cooling time may be required depending on the ambient temperature
- Overload protection: Battery temporarily stops if it is overloaded or the maximum current draw is exceeded, protecting the internal components. The battery will resume normal operation when the current draw returns to a normal safe level. This may take a few seconds
- Short circuit protection: The battery will stop working immediately if a short circuit occurs, this prevents damage to the battery or tool

## Product Familiarisation

1. Front Handle
2. Lock Off Button
3. On/Off Trigger
4. Main Handle
5. Battery Release
6. Battery
7. Battery Slot
8. Fixed Guard
9. Dust Port
10. Battery Charge Indicator
11. Blade
12. Lower Guard Lever
13. Blade Securing Bolt
14. Base Plate
15. Blade Flange
16. Lower Guard
17. Direction Indicator
18. 0° Line
19. 45° Line
20. Guide Locking Knob Thread
21. Guide Slot
22. Bevel Angle Locking Knob
23. Depth Locking Knob
24. Depth Scale
25. Bevel Angle Gauge
26. Direction Indicator
27. Motor Vents
28. Spindle Lock Button
29. Red LED
30. Charger DC Socket
31. Green LED
32. Battery Charger
33. Charger PSU
34. PSU DC Plug

**Note:** This manual may be supplied with different package configurations including bare tools and supplied accessories may vary.

## Intended Use

Hand-held battery-powered electric circular saw for cross, rip and bevel cutting of hard and softwood timber and sheet material. Suitable for creating pocket/plunge cuts when used carefully by a skilled operator.

## Unpacking Your Tool

- Carefully unpack and inspect your tool. Familiarise yourself with all its features and functions.
- Ensure that all parts of the tool are present and in good condition. If any parts are missing or damaged, have such parts replaced before attempting to use this tool.

## Before Use

### Dust extraction

- For a cleaner, safer work environment and to protect the tool from dust and over-heating, ensure the Dust Port (9) and Motor Vents (27) are kept free of wood chippings and dust. Regularly clean the area of the tool with a vacuum where a dust extraction system cannot be fitted or used

**Note:**

The supplied blade comes pre-fitted, make sure the Blade Securing Bolt (13) is securely tightened before first use

### Removing a battery

- To remove the Battery (6) from the tool, press the Battery Release (5), then slide the Battery out of the Battery Slot (7)

**WARNING:** DO NOT try to remove the Battery without pressing the Battery Release button. The tool or Battery could be damaged.

### Fitting a battery

1. Fit a battery by sliding it on to the Battery Slot (7) of the tool until it clicks and locks into position

**Note:** Make sure the Battery and tool are lined up correctly. If the Battery does not slide into the tool easily, do not force it. Instead, slide the Battery out of the tool again, check the top of Battery and the tool battery slot are clean and undamaged and that the contacts are not bent.

## Setting up the battery charger

1. Insert the PSU DC Plug (34) into the Charger DC Socket (30)
2. If fitted, remove any existing battery from the Battery Charger (32)
3. Insert the Charger PSU (33) into a suitable mains socket

**Note:** The Green LED (31) on the Battery Charger will flash to indicate that the charger is ready to charge the battery.

**WARNING:** Use this charger **ONLY** to charge the supplied battery or additional purchased batteries that are specifically designed for this tool.

**WARNING:** The charger is designed for indoor use only, and **MUST NOT** be used in damp or wet conditions.

## Charging the battery

**WARNING:** Failure to follow the correct procedure when charging batteries will result in permanent damage.

1. Slide the Battery Charger (32) onto a fully or partially discharged Battery

**Note:** Make sure the Battery and Battery Charger are lined up correctly. If the Battery does not slide on to the Battery Charger easily, don't force it. Instead, remove the Battery, check the top of Battery and the Battery Charger slot are clean and undamaged and that the contacts are not bent.

2. Once charging commences, the Red LED (29) will illuminate

3. When the Battery is fully charged, the Green LED (31) will be illuminated

**Battery Charge Level:** The Battery has a built-in Battery Charge Indicator (10) (Fig. 1). Pressing on the button to the right will indicate the charge level. The right LED indicates a high charge level and the left a low charge level that will mean the battery pack will require charging soon.

**IMPORTANT:** When a low charge level is indicated, the tool may stop operating while in use, which is dangerous when operating a circular saw. Always ensure the battery pack has a good charge level.

**Note:** It is highly recommended to only use 3.0Ah and 4.0Ah batteries (XT3AHB & XT4AHB) with this tool due to the high current motor and safety issues with the battery fully discharging in use stopping the tool operating.

## Notes about battery charging:

- The battery should be charged at ambient temperatures between 10 and 40°C (ideally around 20°C)
- After charging, allow 15 minutes for the battery to cool before use
- Ensure that the charger is disconnected from the mains supply after use, and is stored correctly
- DO NOT leave batteries on charge for extended periods and NEVER store batteries on charge
- The Battery Charger monitors battery temperature and voltage while charging. Remove the Battery once charging has been completed to maximise charge cycles of the battery and not waste power
- Batteries can become faulty over time, individual cells in the battery can fail and the battery could short. The charger will not charge faulty batteries. Use another battery, if possible, to check correct functionality of the charger and purchase a replacement battery if a faulty battery is indicated
- DO NOT store lithium-ion battery packs in a discharged state long term. This can damage the lithium-ion cells. For long-term storage, store batteries in a high charge state disconnected from the power tool
- The capacity of batteries will reduce over time. After 100 charge cycles, the battery's operation time and the maximum torque performance of the driver will slightly reduce. This decline will continue until the battery has minimal capacity after 500 charge cycles. This is normal and not a fault with the battery pack

## Fitting and removing blades

**WARNING:** Remove battery pack if fitted.

**WARNING:** Wear cut proof gloves when handling sharp blades.

- Always check the blade being fitted is suitable for the material being cut
  - Only fit blades that are in perfect condition. Blunt, bent, and cracked blades should be discarded
1. Press in the Spindle Lock Button (28) and carefully rotate the blade by pushing on the side face of the saw blade until the spindle lock engages. Unscrew the Blade Securing Bolt (13) anti-clockwise using the supplied spanner
  2. Remove the Blade Securing Bolt, washer (if fitted) and Blade Flange (15). A saw blade can now be fitted or removed
  3. Use the Lower Guard Lever (12) to rotate the Lower Guard out of the way
  4. Fit the required blade, making sure the direction indicator on the face of the blade is in the same direction as the Direction Indicator (26)
  5. Re-fit the Blade Flange, washer and Blade Securing Bolt. Press in the Spindle Lock Button and tighten using the spanner
  6. Ensure that blade is secure before use

## Setting bevel angle

- This saw is equipped with a tilting Base Plate (14). This allows bevel cuts to be made
- Alter the angle of the Base Plate by loosening the Bevel Angle Locking Knob (22). The Base Plate will now be free to pivot
- Select the angle required (0-45°) using the Bevel Angle Gauge (25) and retighten the Bevel Angle Locking Knob

- Ensure accuracy by checking the angle between the Blade (13) and the Base Plate using a suitable protractor

## Setting depth adjustment

- This saw is equipped with a depth adjustment mechanism
- Alter the depth of the cut by loosening the Depth Locking Knob (23). The Base Plate (14) is now free to adjust to the required depth
- Adjust the Base Plate to the required depth using the Depth Scale (24) or a ruler and retighten the Depth Locking Knob
- When set correctly, the blade teeth should project approximately 3mm from the underside of the material being cut

## Operation

- Before you use your saw, it is recommended that you practice on scrap material. The settings of the machine are crucial to achieving a good quality finish, and your work could easily be damaged by using an incorrect setting

## Handling your circular saw

- Always hold the saw securely, with both hands, by the handles provided
- Always allow the blade to come to a complete stop before placing the machine down
- Always make sure that work will not move whilst being cut. Use clamps where appropriate

## Making a cut

1. Hold the saw securely and rest the front edge of the Base Plate (14) on the edge of the workpiece
2. Check the blade is not in contact with the workpiece or any other object
3. Start the machine by pressing in the Lock Off Button (2) and squeezing the On/Off Trigger (3)

**Note:** The saw is fitted with two Lock Off Buttons - one on each side of the saw - to allow left or right-handed operation.

4. Allow the motor to reach full speed and push the saw forwards smoothly across the workpiece
5. Maintain a steady movement and ensure the Base Plate is kept pressed against the workpiece

**Note:** The front edge of the Base Plate features an indentation. For normal 0° cutting, align the left side, 0° Line (18) with the line to be cut, for 45° bevel cutting align the right side, 45° Line (19) with the line to be cut.

6. Allow the blade to pass through the material and release the On/Off Trigger. Alternatively, if the cut does not reach the edge of the workpiece, release the On/Off Trigger and allow the blade to stop moving before lifting out of the cut
7. Do not place the machine down until the blade has stopped completely

## Accessories

- A range of accessories are available for this power tool from your Triton dealer including saw blades. Spare parts are available from your Triton dealer or [www.tools4paresonline.com](http://www.tools4paresonline.com).

## Maintenance

**WARNING:** Always remove the battery pack before carrying out any maintenance/cleaning.

### General inspection

- Regularly check that all the fixing screws are tight. They may vibrate loose over time
- Repairs should be carried out by an authorised Triton service centre

### Lubrication

- Lubricate all moving parts with a suitable lubricant spray, at regular intervals

### Cleaning

**WARNING:** ALWAYS wear protective equipment including eye protection and gloves when cleaning this tool.

- Keep your tool clean at all times. Dirt and dust will cause internal parts to wear quickly, and shorten the device's service life
- Clean the body of your machine with a soft brush, or dry cloth
- Never use caustic agents to clean plastic parts. If dry cleaning is not sufficient, a mild detergent on a damp cloth is recommended
- Water must never come into contact with the tool
- Ensure the tool is thoroughly dry before using it
- If available, use clean, dry, compressed air to blow through the ventilation holes (where applicable)

## Storage

- Store this tool carefully in a secure, dry place out of the reach of children



# Disposal

- Always adhere to national regulations when disposing of power tools that are no longer functional and are not viable for repair.
- Do not dispose of power tools, batteries or other waste electrical and electronic equipment (WEEE), with household waste
  - Contact your local waste disposal authority for information on the correct way to dispose of power tools and batteries

# Warranty

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 for 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.

This product is covered by a 36 month warranty.

This warranty will not apply:

- (i) where this product has been subjected to misuse, abuse, accident or want of care;
- (ii) where this product has been used for a purpose for which it was not designed or is not suited;
- (iii) where the service of this product has been undertaken by a non-authorized person or company or if non-approved parts have been used;
- (iv) where this product has been used for industrial purposes.

Should service become necessary during the warranty period, the purchaser should contact an Authorised Service Centre or White International. In order to obtain warranty service, the purchaser must present the store receipt showing the name of the retailer and the date of purchase.

The period of the warranty begins from the original date of purchase, notwithstanding any subsequent repair or parts replacement.

Purchaser shall be responsible for all transport charges to and from the Authorised Service Centre.

Damage in transit is not covered by this warranty. The purchaser should remove from the product any liquids (if applicable) before sending the tool for service or repair. The tool should be packed securely to prevent damage.

# Warranty Exclusions

Wear parts or service related parts required when performing normal and regular maintenance of this product are not covered by warranty unless it is found to be defective by an Authorised Service Centre. These include, but are not limited to: Blades

Distributed in Australia by White International.

PO Box 304 Milperra LPO, NSW Australia, 2214

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The White International Policy is one of continuous improvement and the company reserves the right to alter designs, colours and specifications without notice

# Guarantee

To register your guarantee visit our web site at [www.tritontools.com](http://www.tritontools.com)\* and enter your details.

Your details will be included on our mailing list (unless indicated otherwise) for information on future releases. Details provided will not be made available to any third party.

# Purchase Record

Date of Purchase:    \_\_\_/\_\_\_/\_\_\_

Model:   XT165CCSB    Retain your receipt as proof of purchase

Triton Precision Power Tools guarantees to the purchaser of this product that if any

part proves to be defective due to faulty materials or workmanship within 3 YEARS from the date of original purchase,

Triton will repair, or at its discretion replace, the faulty part free of charge.

This guarantee does not apply to commercial use nor does it extend to normal wear and tear or damage as a result of accident, abuse or misuse.

\* Register online within 30 days.

Terms & conditions apply.

This does not affect your statutory rights

## Notes



