TECHNICAL SPECIFICATIONS

PRODUCT CODE • CS01
MOTOR TYPE/ RATED VOLTAGE • #700 18V
NO LOAD SPEED • 3500RPM
CUTTING DEPTH:
@90° • 40mm (1.57")
@45° • 28mm (1.1")

BLADE CENTRAL BORE • 10mm
BLADE MAXIMUM DIAMETER / KERF • 140mm / 2mm
WEIGHT WITH POWERHANDLE (PH12) • 3.3kg

No person should use this product without first reading and understanding all documentation and warning labels. Keep these instructions safe and provide them to all users.
For use only as outlined in this document, any other use will be considered as misuse.

This product contains materials that should be recycled but can not be disposed of with regular household waste. For disposal options contact your local recycling centre, council offices or your place of purchase.

RoHS COMPLIANT 2011/95/EU

INTERTEK C LISTED US 3061583

Manual Version: 130624

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UK • HK • USA • China • Europe • Australia • Japan

GUARANTEE

If you experience any problems with the product please contact your supplier or find your regional office via the website:
www.cel-global.com

Guarantee
Normal wear and tear, including accessory wear, is not covered under guarantee. Following successful registration, the product is guaranteed for domestic use against manufacturing faults for a period of 24 months. Proper care is required to maintain this product in working condition. This product is not guaranteed for hire purposes. If you have any questions, please contact us:
www.cel-global.com

Declaration of Conformity
We declare under our sole responsibility that the product described in "Technical Specifications" is in conformity with the following standards or standardisation documents:
EN 60745-1:2006
EN 60745-2-5:2007
Technical file can be provided by:
CEL-HK 1604 Nan Fung Commercial Centre, 19 Lam Lok Street, Kowloon Bay, Hong Kong

C Enterprise (UK) LTD
Unit 4 Harbour Road Trading Estate
Portishead, BS20 7BL, UK

Chris Elsworthy
Managing Director- 24th June, 2013

WARNING! For AC tools and appliances; check that input voltages on the rating plates and the plug types match your local mains supply. If it is different contact your supplier immediately and follow their advice. Do not modify the charger or plug in any way. For DC tools; only use batteries supplied or manufacturer recommended replacements.

This product is sold in several configurations. The images and descriptions in this user manual may differ from your product. For features or accessories not covered by this manual or if you are unsure about a feature or function contact your supplier or visit www.cel-global.com where you can find updated user manuals and compatible parts.

WARNING SYMBOLS

- GENERAL HAZARD
- READ INSTRUCTIONS
- PROTECT VISION, HEARING, RESPIRATION
- FLYING DEBRIS
- BE AWARE OF OTHERS
- KEEP DRY
- PROTECT FROM OVERHEATING
- WEAR APPROPRIATE CLOTHING
- SHARP BLADES

IMPORTANT SAFETY NOTES

General Safety Rules for Power Tools
Read all warnings and all instructions.
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
Save all warnings and instructions for future reference.
The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tools plus compatible chargers and accessories. POWERhandle refers to an assembly containing a battery of cells, a trigger mechanism and other controls. A POWERhandle contains no user serviceable parts.
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. Always fully uncoil cables to avoid heat buildup.
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 and 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. Fully uncoil all cords in use.
f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.
3) Personal safety
a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, and/or hearing protection used for appropriate conditions will reduce personal injuries. Be aware of dangerous conditions that can occur while working on certain materials. Take appropriate measures to reduce risk. For example; Oak and Beech can give off harmful dust. Use dust extraction and respiratory protection along with other safety precautions.
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.
d) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
6) Service
Have your power tool serviced by a qualified and approved repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Safety Warnings for Circular Saw
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 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 minimize body exposure, blade binding, or loss of control.
Hold power tool by the insulated gripping surfaces, when performing an operation where the cutting tool may run into hidden wiring. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
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 which match those specified, never modify a blade or fitting. Blades that do not match the mounting hardware of the saw may run eccentrically, causing loss of control or other damage.
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.

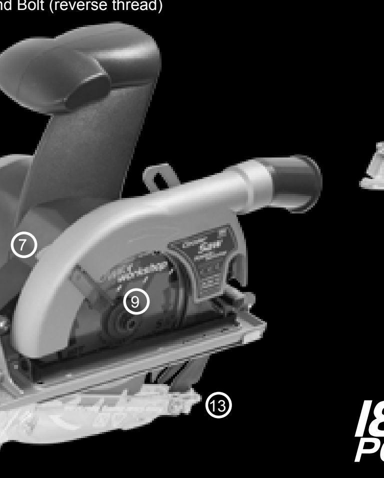
Causes and operator prevention of kickback:
– Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator.
– When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the 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.
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 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.
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.

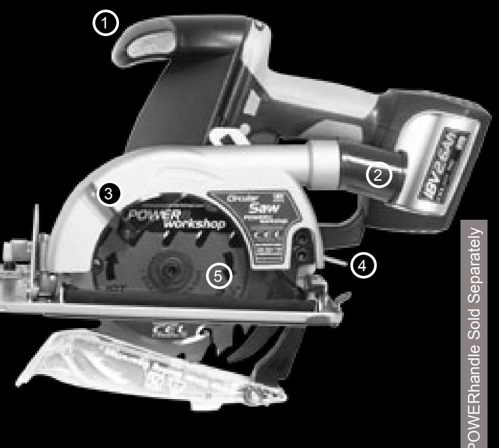
Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
Blade depth and bevel adjusting locking levers must be tight and secure before making cut. If blade adjustment shifts while cutting, it may cause binding and kickback.
Use extra caution when making a "plunge cut" into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.
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, 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.

1 Front Handle
2 Dust Extractor Fitting OD Ø38mm
3 Blade Shield Retractor
+ Spring Loaded Blade Shield (retracted)
4 Height Adjustment Lock
5 Up to 140mm Blade with 10mm Bore (sold separately)
6 Motor Vents
7 Spindle Lock
8 Rip Guide Lock
9 Blade Locking Washer and Bolt (reverse thread)
10 Angle Lock and Scale
11 Sole Plate
12 Cut Guide Notch

13 Table Saw Blade Shield
(Sold Separately)

CS01 Circular Saw User Manual





POWERhandle Sold Separately

18V POWERhandle

CEL

INTENDED USE

This machine is intended for lengthways and crossways cutting of wood with straight cutting lines as well as mitre cuts in wood while resting firmly on the work piece or correctly mounted in the POWER8 case. With suitable saw blades, thin-walled non-ferrous metals, eg, profiles, can also be sawed.
Working ferrous metals is not permitted.

⚠ Sharp blades, heat buildup, harmful dust and flying debris are a danger to user and bystanders. Use of suitable protective clothing, gloves, footwear, lung, eye and ear protection as well as safe working practices can reduce these risks. Always switch the tool off prior to any adjustment.

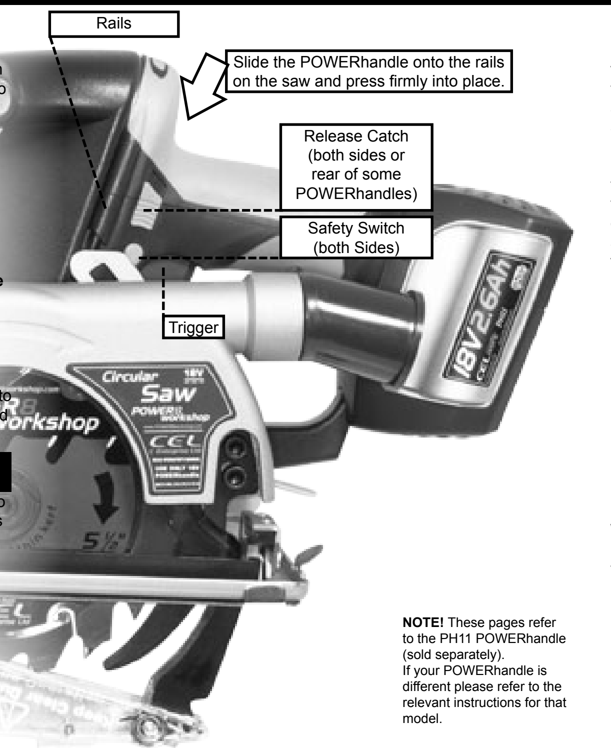
Read and understand all safety warnings and all instructions before operating this product.
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

WARNING! When changing battery, bit or whenever the tool is not in immediate use the direction switch must be in its central locked position to prevent accidental starting. Ensure the tool will not be accidentally started by pressing the trigger.

FITTING A POWERhandle

NOTE! Remove any debris from the area that joins the POWERhandle to the tool. Damage to contacts or mechanical controls could occur if debris is caught between them.
Align the rails on the tool so they will slide smoothly into the rails on the POWERhandle. Once aligned, slide the two parts together firmly until there is a "click" as the locking catch engages. Test the catch is secure and the electrical contacts are engaged by pressing the safety switch in either direction and briefly pressing the trigger.
Removing the POWERhandle
Hold the saw and POWERhandle securely. Slide the POWERhandle Release Switches toward the rear of the handle then slide the POWERhandle out of the tool from the rear.

FITTING A POWERhandle



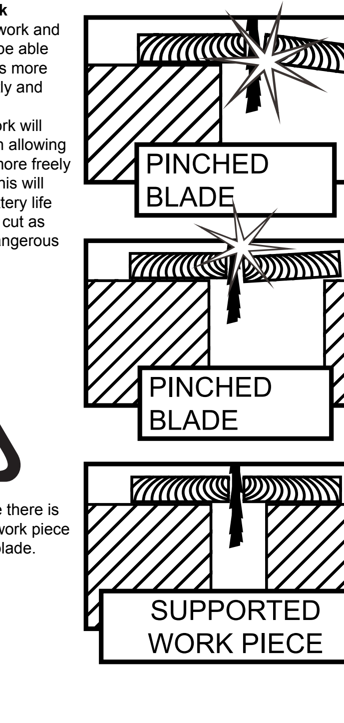
NOTE! These pages refer to the PH11 POWERhandle (sold separately).
If your POWERhandle is different please refer to the relevant instructions for that model.

PREPARE YOUR WORK

Prepare Your Work
By preparing your work and work area you will be able to perform your cuts more accurately, efficiently and safely.
Supporting your work will prevent blade pinch allowing the blade to pass more freely through the work, this will greatly improve battery life and appearance of cut as well as reducing dangerous kickback.

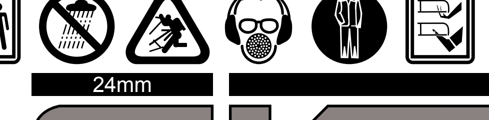
⚠

WARNING! Ensure there is nothing under the work piece that will touch the blade.



FITTING/REMOVING A BLADE

To Replace the Saw Blade
WARNING! Always ensure that the saw is switched off and the POWERhandle is detached from the tool before making any adjustments.
1. Rotate the saw blade by hand while depressing the spindle lock button until the blade locks.
2. Turn the blade bolt clockwise using the hex key provided.
3. Remove the outer blade flange and the blade bolt.
4. Remove the saw blade from the inner flange and pull it out.
NOTE! Clean the saw blade flanges thoroughly before mounting the new saw blade.
5. Mount the new saw blade in reverse order and tighten the blade bolt.
WARNING! The direction in which the blade rotates has to be the same as the direction of the arrow marked on the housing.
Ensure that the spindle lock button is released.
Before using the saw again, check that the safety devices are in good working order.
IMPORTANT! After replacing the saw blade, make sure that the blade runs freely by turning it by hand.
Re-attach the POWERhandle and run the saw under no load to check that it runs smoothly before using it to cut any material.
General Inspection
Regularly check that all the fixing screws are tight. They may vibrate loose over time.
Check the tips of the blade teeth one at a time, if any is damaged or missing then the blade should not be used, replace the blade or have the blade repaired by a qualified repairer. Mark damaged blades so they are not used accidentally and then dispose of responsibly.



OPERATING THE TOOL

NOTE! Before using briefly activate the saw to ensure the blade is centred and secure. If there is any binding, unusual movement or debris in the saw remove the battery, clear the problem and re-test.
To start the Saw
Press the Safety Switch from either side and hold while pressing the Trigger. The safety switch can be released once the saw is running.
NOTE! Always secure your work in a way that allows the blade to move freely below the cut material and so that the work piece does not jam the blade between cut edges.
NOTE! Firm pressure and a good balanced stance, keeping the sole plate on the work piece will help prevent the saw from kicking back if the teeth on the blade suddenly catches in the work piece.
WARNING! Take extra care to prevent fingers and other objects coming into contact with the blade, especially on the other side of materials being cut.
ALWAYS WEAR SUITABLE SAFETY EQUIPMENT WHEN OPERATING POWER TOOLS.

OPERATION TIPS

READ ALL INSTRUCTIONS

- Mark your cut and use the notch at the front of the Sole Plate to guide the blade.
- Set the depth of cut so it just clears the timber. 2-5mm is enough. This will help prevent blade binding, help prevent splintering and improve efficiency.
- Start the saw and allow it to reach full speed before starting the cut. Maintain a steady, even pressure and speed that does not slow the rotation speed. Ease off slightly if the blade slows but continue the cut in one pass when possible and safe to do so to ensure a clean cut.

OPERATION TIPS (cont.)

- Use a guide. A rail system is best, a straight edge clamped to the work piece is a good alternative. Fit the adjustable rip guide onto the saw to use the edge of the work piece as a guide. For short rips, a single clamp can be positioned on the work piece so the edge of the sole plate runs against it -see the sole plate measurements at the bottom of the page.
- A smoother finish can be achieved by using a blade with more teeth. A blade with less teeth will make a faster, rougher cut that uses less energy.
- The teeth of the blade can cause cracks and splintering as they exit whereas the entry side will have a smoother finish. When cutting a finishing piece -eg a worktop or skirting board. Face the finished side downward and run the saw along the back. Scoring timber can also help prevent splintering.
- Splintering can be reduced when cutting diagonally across grain by cutting with, rather than against the grain.
- Slow down slightly but follow through at the end of a cut to prevent scuffing the cut with the back of the blade or leaving snags or chips. Ensure the blade has cleared the cut before allowing the saw to leave the guide.
- When cutting thick timber or performing compound or angled cuts it may be necessary to rotate the blade shield to prevent it stopping the cut as it hooks on the edge of the work piece. Use the Blade Shield Retractor to rotate the shield into the saw. As the rear of the blade enters the work piece, release the Blade Shield so it rests on the surface of the work and will safely cover the blade when it exits the cut.

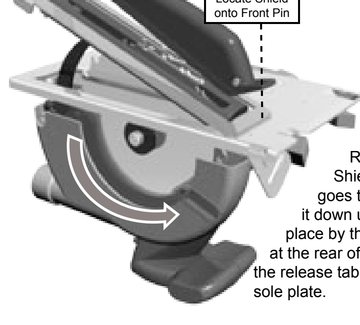
CARE AND MAINTENANCE

General inspection
Regularly check that all the fixing screws are present and tight, they may vibrate loose over time.
Keep the tool's air vents unclogged and clean at all times.
Remove dust and dirt regularly.
Cleaning is best done with compressed air or a rag.
CAUTION, Do not use cleaning agents to clean the plastic parts of the tool. A mild detergent on a damp cloth is recommended. Water must never come into contact with the tool.

CARE AND MAINTENANCE (cont.)

After each use, carefully clean the tool with a brush or rag.
Clear any debris from around the battery mount, moving parts and clips.
Lubrication
No internal lubrication is necessary, the bearing area is sealed.
A coating of machine oil on the metal parts will help prevent corrosion.
Storage
Store the tool, instruction manual and accessories in a secure, dry place. In this way you will always have all the information and parts ready to hand. Lithium ion batteries should ideally be stored with 40 to 80% capacity between 10ºC and 20ºC (50ºF and 68ºF).
WARNING! Always charge Li-ion batteries before storage and at least every 3 months to prevent permanent damage.
Maintenance
All electrical parts should be regularly serviced by an approved engineer. Consumable parts should be checked and replaced as required.

ASSEMBLE A TABLE SAW

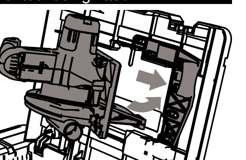


Fit the Table Saw Blade Shield (required)
Rotate and hold the Spring Loaded Blade Shield out of the way. Fit the slot on the front of the Table Saw Blade Shield onto the Front Pin on the Sole Plate just in front of the blade. Rotate the Table Saw Blade Shield down so the blade goes through the slot then press it down until it is securely held in place by the clip on the sole plate at the rear of the blade. To remove, lift the release tab and rotate away from the sole plate.

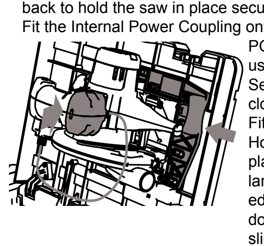
ASSEMBLE A TABLE SAW (cont.)

These instructions should be read in conjunction with those for the specific model of tool being fitted.

Fit the Circular Saw to the Case Lid
Open the case lid and remove any fitted tools. Fit the Blade Shield as shown.
Slide the Locking Slider out of the way.
Fit the nose of the Sole Plate into the recess on the left of the large slot in the lid and the blade through the slot.
Rotate the saw into place and release the Locking Slider, ensure it slides back to hold the saw in place securely.



Fit the Internal Power Coupling onto the Rails on the saw in where the POWERhandle connects for handheld use.



Set Blade Depth and Blade Angle then close and latch the lid.
Fit the Rip Fence by hooking the Small Hock onto the edge of the case then place it flat on the surface and rotate the large end so the 2nd hock is over the edge of the case, press the Sliding Lock downward to lock into place. To remove, slide this up again and unhook the post.
The Protractor can slide in the slots on either side of the saw.
All measurements should be taken from the saw blade when accuracy is vital.
Provide adequate support to the rear and sides of the saw table for wide or long workpieces.

START / STOP

Fit a POWERhandle into the Main Dock on the case. Use the Green and Red Start / Stop buttons to start and stop the tools fitted to the case. The backlight on the LCD Display will glow green when the Start button is pressed.