







TO REDUCE THE RISK OF INJURY, USER MUST READ OPERATOR'S MANUAL.











Remove the battery pack before starting any work on the machine.





















![](_page_8_Picture_0.jpeg)

![](_page_9_Figure_0.jpeg)

![](_page_10_Picture_0.jpeg)

![](_page_11_Picture_0.jpeg)

![](_page_11_Picture_1.jpeg)

![](_page_11_Picture_2.jpeg)

Accessory

![](_page_11_Picture_4.jpeg)

![](_page_12_Picture_0.jpeg)

![](_page_13_Picture_0.jpeg)

![](_page_13_Figure_1.jpeg)

![](_page_14_Picture_0.jpeg)

TECHNICAL DATA	Cordless Angle Grinder	CAGR18
Battery voltage Max. no-load speed Grinding disk diameter Thread of work spindle		
Weight with battery		2.4 kg
Noise/Vibration Information Measured values determined at the A-weighted noise levels of i Sound pressure level (K = 3 dB Sound power level (K = 3 dB Wear ear protection!	ccording to EN 60745.Typically, the tool are: JB(A)) A))	74.5 dB(A) 85.5 dB(A)
Total vibration values (vector su according to EN 60745: Surface grinding: vibration emis Uncertainty K = For other applications, e.g. Abr Wire Brushing other vibration v	um in the three axes) determined ssion value a <sub>n</sub> asive Cutting-Off Operations or alues could occur.	6.1 m/s² 1.5 m/s²

#### WARNING

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 60745 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure. The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period. Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

A WARNING! Read all safety warnings and all instructions, including those given in the accompanying brochure. Failure to follow the warnings and instructions may result in electric shock, fi re and/or serious injury. Save all warnings and instructions for future reference.

## SAFETY INSTRUCTIONS

General safety instructions for grinding, working with wire brushes and abrasive cutting.

a) This power tool is intended to function as a grinder, wire brush, or cut-off tool. Read all safety warnings, instructions, illustrations and specifi cations provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

b) Operations such as sanding or 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.

c) Do not use accessories which are not specifi cally designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.

d) 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.

e) 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.

f) The arbour size of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool. Accessories with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
g) 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.

h) Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and shop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping fl ying debris generated by various operations. The dust mask or respirator must be capable of fi Itrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

i) 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 fl y away and cause injury beyond immediate area of operation.

J) Hold 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 shock the operator.

k) 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.

m) 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.

n) Do not operate the power tool near fl ammable materials. Sparks could ignite these materials.

o) Do not use accessories that require liquid coolants.

Using water or other liquid coolants may result in electrocution or shock.

#### **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.

a) 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.

**b) Never place your hand near the rotating accessory.** Accessory may kickback over your hand.

c) 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.

d) 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. e) Do not attach a saw chain, woodcarving blade or toothed saw blade. Such blades create frequent kickback and loss of control.

# Safety Warnings Specific for Grinding and Abrasive Cutting-Off Operations:

a) 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.

b) 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 operator from broken wheel fragments and accidental contact with wheel.

c) 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.

d) 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.

e) 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.

#### Additional Safety Warnings Specific for Abrasive Cutting-Off Operations:

a) 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.

b) 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. c) 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.

d) Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully reenter the cut. The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.

e) 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.

f) 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.

Safety Warnings Specific for Wire Brushing Operations: a) Be aware that wire bristles are thrown by the brush even during ordinary operation. Do not overstress the wires by applying excessive load to the brush. The wire bristles can

easily penetrate light clothing and/or skin.

b) If the use of a guard is recommended for wire brushing, do not allow any interference of the wire wheel or brush with the guard. Wire wheel or brush may expand in diameter due to work load and centrifugal forces.

Dust and splinters must not be removed while the machine is running.

Never reach into the danger area of the tool when it is running. Always use the auxiliary handle.

Always use the protecting cap when roughing-down and separating.

Immediately switch off the machine in case of considerable vibrations or if other malfunctions occur. Check the machine in order to find out the cause.

Always use and store the grinding disks according to the manufacturer's instructions.

When grinding metal, flying sparks are produced. Take care that no persons are endangered. Because of the danger of fire, no combustible materials should be located in the vicinity (spark flight zone). Do not use dust extraction.

Due care should be taken that no sparks or sanding dust flying from the workpiece come into contact with you.

The adjusting nut must be tightened before starting to work with the machine.

The workpiece must be fixed if it is not heavy enough to be steady. Never lead the workpiece to the grinding disk with your hand.

For accessories intended to be fitted with threaded hole wheel, ensure that the thread in the wheel is long enough to accept the spindle length.

For cutting or separating use a closed protection cap, available as an accessory.

Do not dispose of used battery packs in the household refuse or by burning them.

Do not store the battery pack together with metal objects (short circuit risk).

Use only CCR18 battery chargers for charging CBATR18 battery packs. Do not use battery packs from other systems. Never break open battery packs and chargers and store only in dry rooms. Keep dry at all times. Battery acid may leak from damaged batteries under extreme load or extreme temperatures. In case of contact with battery acid wash it off immediately with soap and water. In case of eye contact rinse thoroughly for at least 10 minutes and immediately seek medical attention.

### SPECIFIED CONDITIONS OF USE

The angle grinder may be used for cutting-off, grinding and wire brushing a wide range of materials, such as metal or stone. If you have any doubts, please refer to the instructions supplied by the accessory manufacturer.

Do not use this product in any other way as stated for normal use.

#### **EC-DECLARATION OF CONFORMITY**

We declare under our sole responsibility that this product is in conformity with the following standards or standardized documents: EN 60745, EN 55014-1, EN 55014-2, in accordance with the regulations 2006/42/EC, 2004/108/EC

#### BATTERIES

New battery packs reach full loading capacity after 4 - 5 chargings and dischargings. Battery packs which have not been used for some time should be recharged before use. Temperatures in excess of 50°C (122°F) reduce the performance of the battery pack. Avoid extended exposure to heat or sunshine (risk of overheating).

The contacts of chargers and battery packs must be kept clean. For an optimum life-time, after use, the battery packs have to

be fully charged.

#### MAINTENANCE

The ventilation slots of the machine must be kept clear at all times.

Do not let any metal parts reach the airing slots - danger of short circuit!

Use only Ramset accessories and spare parts. Should components need to be exchanged which have not been described, please contact our Ramset National Service Centre.

### SYMBOLS

![](_page_17_Picture_15.jpeg)

Please read the instructions carefully before starting the machine.

![](_page_17_Picture_17.jpeg)

Always wear goggles when using the machine.

Remove the battery pack before starting any work on the machine.

![](_page_17_Picture_21.jpeg)

Accessory - Not included in standard equipment, available as an accessory.

![](_page_17_Picture_23.jpeg)

Do not dispose of electric tools together with household waste material! In observance of European Directive 2002/96/EC on waste electrical and electronic

![](_page_17_Picture_25.jpeg)

rective 2002/96/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

![](_page_18_Picture_0.jpeg)

# CAGR18 18V Angle Grinder Operator's Manual

# TWO YEAR WARRANTY

Every Ramset<sup>™</sup> 18 Volt Lithium-Ion power tool (including battery charger) is warranted to the original purchaser only to be free from defects in material and workmanship. Subject to certain exceptions, Ramset<sup>™</sup> will repair or replace any part on a 18 Volt Lithium-Ion power tool which, after examination, is determined by Ramset<sup>™</sup> to be defective in material or workmanship for a period of two (2) years\* after the date of purchase. Return the 18 Volt Lithium-Ion power tool and a copy of proof of purchase to the Ramset<sup>™</sup> National Service Centre, freight prepaid and insured, as requested for this warranty to be effective. This warranty does not apply to damage that Ramset<sup>™</sup> determines to be from repairs made or attempted by anyone other than Ramset<sup>™</sup> authorized personnel, misuse, alterations, abuse, normal wear and tear, lack of maintenance, or accidents.

\*The warranty period for Li-Ion battery packs is two (2) years from the date of purchase.

ACCEPTANCE OF THE EXCLUSIVE REPAIR AND REPLACEMENT REMEDIES DESCRIBED HEREIN IS A CONDITION OF THE CONTRACT FOR THE PURCHASE OF EVERY Ramset<sup>™</sup> PRODUCT. IF YOU DO NOT AGREE TO THIS CONDITION, YOU SHOULD NOT PURCHASE THE PRODUCT. IN NO EVENT SHALL Ramset<sup>™</sup> BE LIABLE FOR ANY INCIDENTAL, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, OR FOR ANY COSTS, ATTORNEY FEES, EXPENSES, LOSSES OR DELAYS ALLEGED TO BE AS A CONSEQUENCE OF ANY DAMAGE TO, FAILURE OF, OR DEFECT IN ANY PRODUCT INCLUDING, BUT NOT LIMITED TO, ANY CLAIMS FOR LOSS OF PROFITS. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, WRITTEN OR ORAL, EXPRESSED OR IMPLIED. WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, Ramset<sup>™</sup> DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANT-ABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, AND ALL OTHER WARRANTIES.

Ramset<sup>™</sup> A division of ITW Australia Pty Ltd

RAMCAHR18/OM1911