



Declaration of conformity

Mirka Ltd, 66850 Jeppo, Finland

declare under our sole responsibility that the Mirka® products (listed below and see "Technical data" table for particular model) to which this declaration relates are in conformity with the following standards or other normative documents: EN 60745-1:2009/A11:2010, EN 60745-2-23:2013, EN 55014-1:2017/A11:2020, EN 55014-2:2015, EN IEC 63000:2018 in accordance with the regulations 2006/42/EC, 2014/30/EU, 2011/65/EU, 2015/863/EU & 2012/19/EU. The battery charger are in conformity with the following standards and directives; EN 60335-1:2012/A2:2019, EN 60335-2-29:2004/A11:2018, EN 62233:2008, EN 55014-1:2017, EN 55014-2:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN IEC 63000:2018 in accordance with the regulations 2014/35/EU, 2014/30/EU, 2011/65/EU, 2015/863/EU & 2012/19/EU.

Products: Mirka® ARG-B 200 Cordless grinder

Jeppo 03.08.2021 Place and date of issue	MIRKA Company	 Stefan Sjöberg, CEO	Manufacturer / Supplier Mirka Ltd 66850 Jeppo, Finland Tel. +358 20 760 2111 Fax +358 20 760 2290 www.mirka.com	
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Original instructions. We reserve the right to make changes to this manual without prior notice.

Important

Read these safety and operating instructions carefully before installing, operating or maintaining this tool. Keep these instructions in a safe and accessible place. Read and comply with state and local regulations.

Required personal safety equipment



Read
operator's manual



Wear
safety glasses



Wear
ear protection



Wear
safety gloves



Wear
face mask

Symbols

	Complies with EU relevant standards
	Complies with UK relevant regulations
	Complies with China RoHS requirement
	Complies with Australia & New Zealand RCM requirement
8991100311	Cordless grinder



Warning: Potential hazardous situation that may result in death or serious injury and/or property damage.

Caution: Potential hazardous situation that may result in minor or moderate injury and/or property damage.

Please read and comply with

- General Industry Safety & Health Regulations, part 1910, OSHA 2206, available from: Superintendent of Documents; Government Printing Office; Washington DC 20402
- State and local regulations



General Power Tool Safety Warnings



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.

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

- 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.

2. 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 and 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.

3. 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 plugging in tools when the switch is in the on-position 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 jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery 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.

4. Power tool use and care

- Do not overload 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 anyone who is 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.
 - h. **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.
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.
 - e. **Do not use a batter pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
 - f. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
 - g. **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.
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.
 - b. **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 operations

- a. **This power tool is intended to function as a grinder. 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.
- b. **Operations such as sanding, wire brushing, polishing, drilling or cutting-off 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 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.
- d. **The rated speed of the grinding accessories must be at least equal to the maximum speed marked on the power tool.** Grinding 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 controlled.
- f. **The arbour size of wheels, sanding drums or any other accessories must properly fit the spindle or collet 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.

- g. **Mandrel mounted wheels, sanding drums, cutters or other accessories must be fully inserted into the collet or chuck.** If the mandrel is insufficiently held and/or the overhang of the wheel is too long, the mounted wheel may become loose and be ejected at high velocity.
- h. **Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, sanding drums for cracks, tear or excess wear, wire brush for loose or cracked wires. If the 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.
- i. **Wear personal protective equipment. Depending on the 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 filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- j. **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.
- k. **Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- l. **Always hold the power tool firmly in your hand(s) during the start-up.** The reaction torque of the motor, as it accelerates to full speed, can cause the tool to twist.
- m. **Use clamps to support workpiece whenever practical. Never hold a small workpiece in one hand and the tool in the other hand while in use.** Clamping a small workpiece allows you to use your hand(s) to control the tool. Round material such as dowel rods, pipes or tubing have a tendency to roll while being cut, and may cause the bit to bind or jump toward you.
- n. **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.
- o. **After changing the bits or making any adjustments, make sure the collet nut, chuck or any or any other adjustment devices are securely tightened.** Loose adjustment devices can unexpectedly shift, causing loss of control, loose rotating components will be violently thrown.
- p. **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.
- q. **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.
- r. **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
- s. **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shocks.



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.

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.** The operator can control kickback forces, if proper precautions are taken.
- b. **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.
- c. **Do not attach a toothed saw blade.** Such blades create frequent kickback and loss of control.
- d. **Always feed the bit into the material in the same direction as the cutting edge is exiting from the material (which is the same direction as the chips are thrown).** Feeding the tool in the wrong direction causes the cutting edge of the bit to climb out of the work and pull the tool in the direction of this feed.

- e. **When using rotary files, cut-off wheels, high-speed cutters or tungsten carbide cutters, always have the work securely clamped.** These wheels will grab if they become slightly canted in the groove, and can kickback. When a cut-off wheel grabs, the wheel itself usually breaks. When a rotary file, high-speed cutter or tungsten carbide cutter grabs, it may jump from the groove and you could lose control of the tool.



Safety warnings specific for grinding and abrasive cutting-off operations

- a. **Use only wheel types that are recommended for your power tool and only for recommended applications. For example: do not grind with the side of a cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
- b. **For threaded abrasive cones and plugs use only undamaged wheel mandrels with an unrelieved shoulder flange that are of correct size and length.** Proper mandrels will reduce the possibility of breakage.
- c. **Do not "jam" a 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 snagging of the wheel in the cut and the possibility of kickback or wheel breakage.
- d. **Do not position your hand in line with and behind the rotating wheel.** When the wheel, at the point of operation, is moving away from your hand, the possible kickback may propel the spinning wheel and the power tool directly at you.
- e. **When wheel is pinched, snagged 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 pinching or snagging.
- f. **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.
- g. **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.
- h. **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 rules for battery pack and charger

- Important safety and operating instructions for your battery and charger. Before using the charger, read all instructions and warnings on the charger, the battery pack and the tool.
- If the battery pack casing is cracked or damaged, do not insert into charger. There is a danger of electric shock or electrocution.
- Do not allow any liquid to get inside charger. Electric shock may result.
- This charger is not intended for any uses other than charging rechargeable batteries.
- Do not place any object on top of the charger, near any heat source or place the charger on a soft surface that may result in excessive internal heat.
- Make sure the cord is located so it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- Do not use the charger if it has received a sharp blow, been dropped or otherwise damaged in any way.
- Do not store or use the tool and battery pack in locations where the temperature may reach or exceed 50 °C (122 °F).
- The charger is designed to operate on standard household electrical power (100–240 VAC). Do not attempt to use it on any other voltage.



Additional Safety Warnings

- Always ensure that the work piece to be sanded is firmly fixed in place.
- Always remove battery during any transportation of the tool.
- Do not allow the tool to free speed without taking precautions to protect surrounding people and objects in the event that the abrasive or backing pad should come loose.
- Read all instructions before using this tool. All operators must be fully trained in the proper, safe use of this tool.
- All maintenance must be carried out by trained personnel. For service, contact a Mirka authorized service center.
- If the tool appears to malfunction, stop using it immediately and arrange for service and repair.
- Before changing the abrasive always disconnect the power source
- Never carry, store or leave the tool unattended with the power source connected.
- Keep hands clear of the spinning pad during use.

- Always wear required personal safety protection in accordance with manufacturer’s instructions and local/national standards while using this tool.
- Read the Materials Safety Data Sheet (MSDS) for the working surface.
- If any physical hand/wrist discomfort is experienced, stop working and seek medical attention. Hand, wrist and arm injury may result from repetitive work, motion and overexposure to vibrations.

Additional information on battery and charger

- Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks or cracks, immediately discontinue use and do not recharge.

Technical data

Mirka*	ARG- B 200
Voltage	10.8 VDC
Speed	2500 –21000 rpm
Maximum size of accessory	Ø 55 mm (2")
Collet	Ø 6 mm (1/4")
Weight (incl. battery)	0.89 kg (2.0 lbs)

Battery charger	Mirka BCA 108
Input	100–240 VAC, 50–60Hz
Charging time	< 50 min (2.5 Ah) < 100 min (5.0 Ah)
Storage temperature range	-20 °C – 80 °C (-4 °F – 176 °F)
Charging temperature	4 °C – 40 °C (39 °F – 104 °F)
Dimension	191 x 102 x 86 mm (7 1/2 x 4 x 3 3/8")
Weight	0.66 kg (1.5 lbs)
Degree of protection	II / □

Battery pack	Mirka BPA 10820	Mirka BPA 10825	Mirka BPA 10840	Mirka BPA 10850
Type	Rechargeable Li-ion	Rechargeable Li-ion	Rechargeable Li-ion	Rechargeable Li-ion
Battery voltage	10.8 VDC	10.8 VDC	10.8 VDC	10.8 VDC
Capacity	2.0 Ah / 21.6 Wh	2.5 Ah / 27.0 Wh	4.0 Ah / 43.2 Wh	5.0 Ah / 54.0 Wh
Weight	0.18 kg (0.4 lbs)	0.18 kg (0.4 lbs)	0.38 kg (0.8 lbs)	0.38 kg (0.8 lbs)
Intelligent battery	(Yes/No*)	Yes	Yes	Yes

*Batteries produced before 08/2021

Noise and vibration information

Measured values are determined according to EN 60745.

Cordless	ARG- B 200
Sound pressure level (L _{pA})	70 dB(A)
Sound power level (L _{WA})	81 dB(A)
Sound measurement uncertainty K	3.0 dB(A)
Vibration emission value a _h *	11.1 m/s ²

Cordless	ARG- B 200
Vibration emission uncertainty K *	1.5 m/s ²

Specifications subject to change without prior notice. Model range may vary between markets.

- * In order to reflect normal working conditions of the sander the operating conditions did deviate from the standard method as follows: Grain size of the abrasive was 5 µm. Feed force was 10 N.
- * The values stated in the table are derived from laboratory testing in conformity with stated codes and standards and are not sufficient for risk evaluation. Values measured in a particular work place may be higher than the declared values. The actual exposure values and amount of risk or harm experienced by an individual are unique to each situation and depend upon the surrounding environment, the way the individual operates the machinery, the particular material being worked, work station design and the user's exposure time and physical condition. Mirka Ltd accepts no responsibility for the consequences of using declared values instead of actual exposure values for any individual risk assessment.

Further occupational health and safety information can be obtained from the following websites:

<https://osha.europa.eu/en> (Europe) or <http://www.osha.gov> (USA)

Proper use of tool

This tool is designed for grinding all types of materials such as paints, metals, wood, stone, plastics, etc. Do not use this tool for any other purpose than that specified without consulting the manufacturer or the manufacturer's authorized supplier. Do not use accessories that have a working speed of less than the maximum rated speed of the tool's free speed. Any maintenance or repair work requiring the motor housing to be opened may only be carried out by an authorized service center.

Battery and charger

- The battery pack is not fully charged out of the carton. First read the safety instructions and then charge your battery according to the instructions.
- For optimal charging capacity the battery should be charged at an ambient temperature between 18 °C (64 °F) and 24 °C (75 °F). To prevent damage to the battery pack, do not charge the battery pack where the air temperature is below 4 °C (32°F) or above 40 °C (104 °F).
- To obtain the longest possible battery life, we suggest the following:
 - Store and charge your battery in a cool area. Temperatures above or below normal room temperature will shorten battery life.
 - Never store the battery in a discharged condition. Recharge it immediately after it has been discharged.
- All batteries gradually lose their charge. The higher the temperature, the quicker they lose their charge.

If you store your tool for long periods of time without use, recharge the battery every month. This practice will prolong battery life.

Charging procedure

- Connect the power cord to the charger, and then plug into an outlet before inserting battery pack. All three charging lights will be on for two seconds and then turn off.
- Insert the battery pack into the charger. The lights will start to flash within 30 seconds.
- During the charging process, the charging lights will indicate the status as follows:
 - Three charging lights will flash in sequence during the charging process.
 - Fully charged, all three lights will remain on continuously.
- The charging process will last approximately 50 minutes for BPA 10825 and 100 minutes for BPA 10850 battery pack.

NOTE! This charger can only charge Mirka 10.8 V battery packs.

NOTE! Charging times may be longer depending on the surrounding temperature and battery conditions.

LED indication of 10.8 V charger

LED						
3						
2						
1						
Status	 Pre-charge (Trickle charge)	 Charging...	 Charging...	 Charging finished	 Over temperature	 Battery failure

Remain continuously on

Flashing

Charger diagnostics

- The charger will indicate if:
- A battery pack is overheated. All three charging lights will flash. Remove the battery and allow it to cool down for 15–30 minutes and re-insert.
 - A malfunction occurs in the battery or the charger. Two charging lights will flash. Remove the battery and allow it to cool down. Re-insert the battery pack into the charger. If two charging lights still flash, the battery or charger may require service.

How to get started

- When unpacking the tool, make sure it is intact, complete and has not been damaged in transport. Never use a damaged tool.
- Before use, check that the accessory is correctly mounted.
- Install the fully charged battery pack into the tool until it locks in place with a click.

Operating instructions

- The tool is intended to be operated as a hand held tool. The tool can be used in any position.
- Select a suitable accessory and secure it to the tool.
- The tool can now be activated / turned on and started by pressing the switch trigger.
- The tool will run and stay in active mode as long as the trigger is pressed. After the trigger is released the tool will decelerate until it stop but continue to stay in active mode for a short time before it automatically deactivates / turns off.
- When tool is in active mode the right LED is green.
- If an intelligent battery is used all three LEDs will flash green for three seconds during startup.
- In active mode the left LED shows the battery status:
 - Green:** Battery charge level is OK.
 - Flashing green:** Battery charge level is below 75%.
 - Flashing green/red:** Battery charge level is below 50%.
 - Flashing red:** Battery charge level or battery health (only available if intelligent battery is used) is under 25%.
 - Red:** Battery voltage too low, tool is not operable.
- The speed can be adjusted between 2500 and max 21000 rpm by adjusting the position of the trigger. In active mode the max rpm can be adjusted by pressing rpm+ or rpm-. The rpm can be adjusted in steps of 2500, 5000, 7500, 10000, 12500, 15000 and 21000 rpm.
- The rpm can be locked to prevent an accidental rpm change. Wait until the tool is not in active mode. Simultaneously press and hold both rpm+ and rpm- buttons and then pull the switch trigger. In order to unlock the tool, repeat same operation. If rpm+ or rpm- is pressed in speed lock mode the right led flashes red twice but no speed change occur.
- When grinding, if you just installed an accessory or are beginning a period of work, test it by letting it spin for one minute before applying it to the workpiece. Allow accessory to come in to full speed before beginning work.
- When grinding is finished, make sure the tool comes to a complete stop before laying th tool down. Remove the battery from the tool by simultaneously pressing the button on both sides and removing the battery from the tool. Charge the battery.

Bluetooth

This tool is equipped with Bluetooth® low energy technology and can be connected to an app from which additional tool functionality can be accessed. For more information on the app functionality and if it is available in your country, go to www.mirka.com/mymirka

Activate Bluetooth on your Mirka® ARG-B 200 as follows:

1. Connect the battery to the tool.
2. Press and hold the rpm+ button while activating the tool by pressing the switch trigger.
3. Middle LED is flashing green, to indicate that Bluetooth is active and ready for connections.
4. Middle LED is lit green when the tool is connected to another Bluetooth device.
5. Bluetooth is deactivated when the tool is deactivated/turned off.

NOTE! If the app is not installed or if it is not available in your country, Bluetooth shall not be activated.

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Mirka Ltd is under license. Other trademarks and trade names are those of their respective owners.

Maintenance



Always remove the battery before maintenance!
Only use original Mirka spare parts!

Replacing accessory

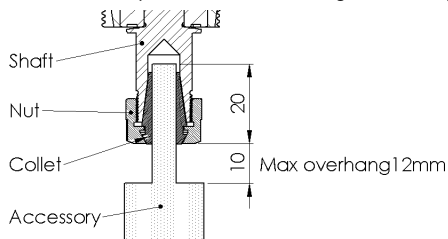
Installing collet

The collet must be attached to the collet nut before installing the collet assembly to the tool. Be sure that the collet size matches the size of the mandrel you will use, otherwise the collet may break.

1. To **assemble**, place collet on an even surface, and place the nut over the collet.
2. Press down on the nut to snap the nut and collet together.
3. To **disassemble**, use a rod to push the collet out of the nut.

Installing accessory

1. Remove dust and debris from the collet body before inserting accessory.
2. Insert the collet with the collet nut attached into the collet body. Thread the collet nut onto the spindle but do not tighten it yet.
3. Clean the accessory mandrel, then insert it a minimum of 20 mm and 50% of accessory shaft length.
4. Hold the spindle shaft steady with a 14 mm open end wrench and securely tighten the collet nut with an 17 mm open end wrench.
5. Reverse the procedure when removing the accessory.



Storage and handling

Storage in a dry place, protected from rain and frost. Keep free of pressure to avoid deformation.

Cleaning

Use a soft brush to remove any accumulated dust. Wear safety glasses to protect your eyes while cleaning.
If the body of the tool needs cleaning, wipe it with a soft damp cloth. A mild detergent can be used.



WARNING: Never use alcohol, petrol or other cleaning agent. Never use caustic agents to clean plastic parts.

Charger cleaning instructions

Dirt and grease may be removed from the exterior of the charger using a cloth or soft non metallic brush. Do not use water or any cleaning solutions.



Further service

Servicing must always be performed by trained personnel. To keep the tool warranty valid and ensure optimal tool safety and function, servicing must be carried out by a Mirka authorized service centre. To locate your local Mirka authorized service centre, contact Mirka Customer Service or your Mirka dealer.

Troubleshooting guide

Symptom	Possible cause	Solution
No light from the right LED of the tool when trigger is pressed.	Battery pack not properly attached to the tool. Battery totally empty.	Insert the battery properly. Charge the battery.
The right tool LED is red and the tool slows down to the minimum speed setting when grinding.	Temperature too high in the tool Heavy load for too long.	Reduce the load on the tool for some time and the tool will speed up again.
The right LED of the tool is red and rpm is slightly reduced.	Too heavy short term load.	Use lighter load or wait a moment and the LED will automatically change to green.
The left LED is red and the tool is not running.	The battery voltage is too low.	Charge the battery.
The left led of the tool is flashing red although the battery is fully charged.	Battery failure. Please use the App for diagnostics.	Replace the battery.

Disposal information

DANGER



Render redundant power tools unusable by removing the power cord.

Observe applicable country-specific regulations regarding disposal and recycling of disused machines, packaging and accessories.

EU only: Do not dispose electric power tools in house-hold waste. According to European Directives on waste electrical and electronic equipment and its implementation under national law, electric tools that have reached the end of their life must be collected separately and taken to an environmentally compatible recycling facility.

For more information regarding REACH, RoHS and our corporate social responsibility visit www.mirka.com