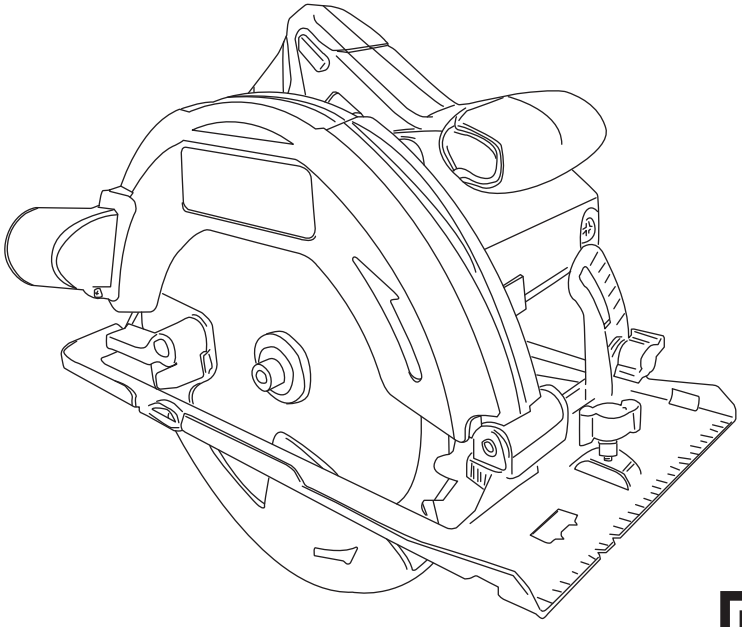
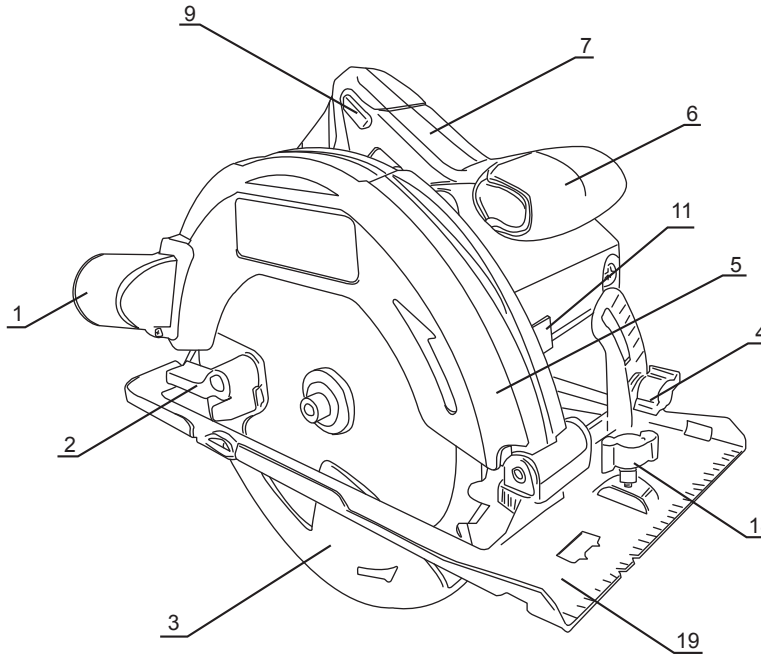
KYOCERA

RYOBI®

W-1850

GB OWNER'S OPERATING MANUAL

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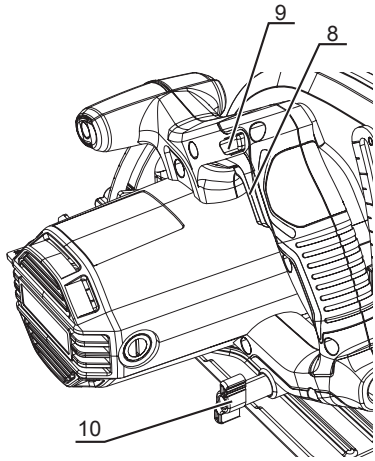
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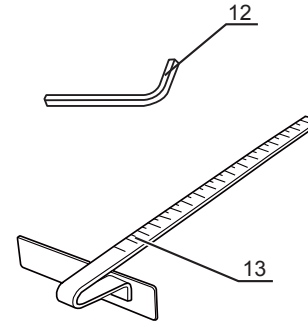
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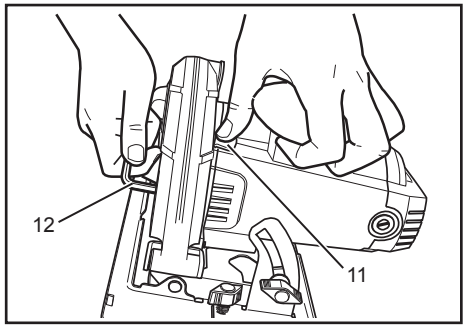

Fig. 2

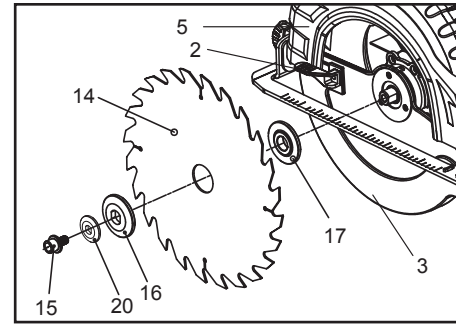

Fig. 3

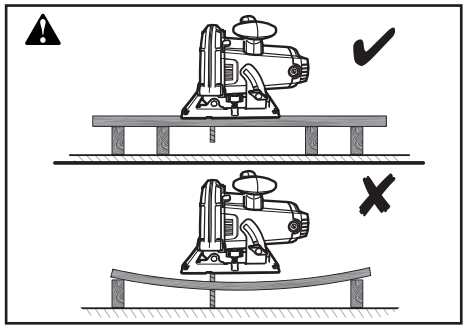

Fig. 4

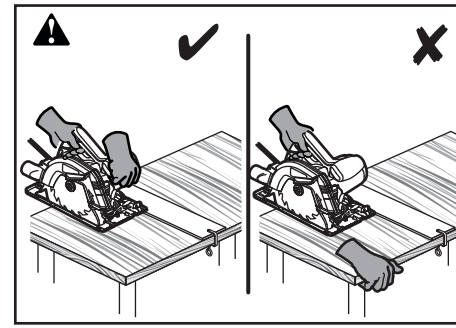

Fig. 5

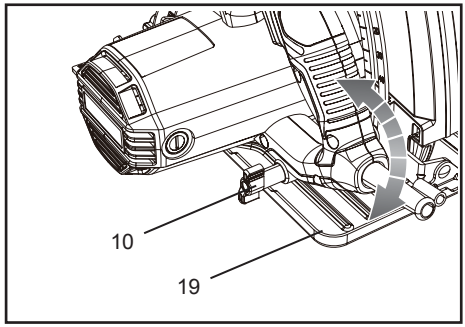

Fig. 6

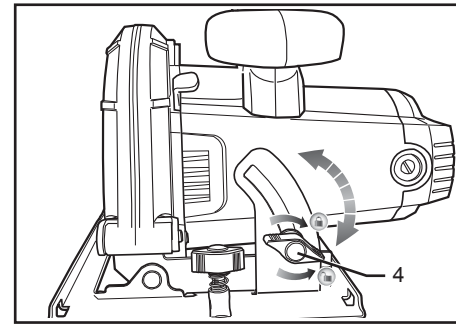

Fig. 7

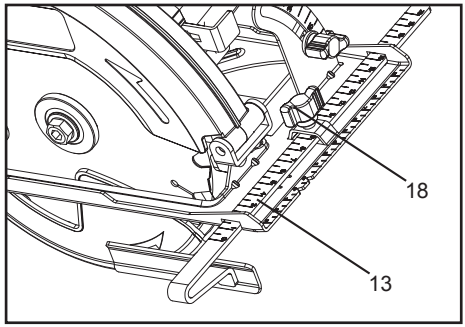

Fig. 8

THANK YOU FOR BUYING OUR PRODUCT.

To ensure your safety and satisfaction, carefully read through this OWNER'S MANUAL before using the product.

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**
- **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.

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) 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.

INSTRUCTIONS FOR SAFE HANDLING

1. Make sure that the tool is only connected to the voltage marked on the name plate.
2. Never use the tool if its cover or any bolts are missing. If the cover or bolts have been removed, replace them prior to use. Maintain all parts in good working order.
3. Always secure tools when working in elevated positions.
4. Never touch the blade, drill bit, grinding wheel or other moving parts during use.
5. Never start a tool when its rotating component is in contact with the workpiece.
6. Never lay a tool down before its moving parts have come to a complete stop.
7. **ACCESSORIES:** The use of accessories or attachments other than those recommended in these instructions might present a hazard.
8. **REPLACEMENT PARTS:** When servicing use only identical replacement parts.

SPECIFIC SAFETY RULES FOR CIRCULAR SAW

Cutting procedures

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

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 minimize 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 to use only blade diameter(s) in accordance with the markings.

h) Never use damaged or incorrect blade washers or bolt.

a) The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

i) Do not use any abrasive wheels for this saw.

j) With provided blade, users can use it to cut wood and plastic materials. Please note to avoid overheating the blade tips and avoid melting the plastic.

k) Dust collection system

A dust extraction outlet has been supplied with the tool. Connect it to user's dust collector.When used correctly it can help remove dust, chips and cutting debris away from the cutting area.

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.

DESCRIPITION

1. Dust extraction outlet
2. Blade guard retracting lever
3. Lower guard
4. Bevel angle locking knob
5. Upper guard
6. Front handle
7. Rear handle
8. Trigger switch
9. Safety button
10. Cutting depth locking knob
11. Spindle lock
12. Hex wrench
13. Parallel guide fence
14. Blade
15. Hex bolt
16. Outer flange
17. Inner flange
18. Parallel guide fence locking knob
19. Base plate
20. Washer

SPECIFICATIONS

Voltage:	220-240V～•50/60Hz
Power input:	1500W
No load speed:	6000min^{-1}
Blade diameter:	Ø185mm
Blade arbor:	Ø20mm
Blade teeth:	24T
Max. cutting depth	
at 90°:	64mm
at 45°:	48mm
Net weight:	3.9kg

STANDARD ACCESSORIES

Parallel guide fence, Hex wrench

INTENDED USE

Sawing and mitre cutting all types of wood.
Do not use for cutting metal or masonry.

ASSEMBLY

Check for damage to the tool, parts and accessories which may have occurred during transportation. Take some time to read this manual carefully and understand all the content prior to assembly and operation.

CAUTION
Always ensure that the tool is switched off and unplugged from the mains supply before assembly.

ATTACHING AND REMOVING THE SAW BLADE (Fig.2, 3)

- **BE SURE TO DISCONNECT THE TOOL FROM THE POWER SUPPLY BEFORE ATTACHING AND REMOVING THE SAW BLADE.**
- **BE SURE THAT THE TEETH OF THE SAW BLADE ARE POINTING UPWARD AT THE FRONT OF THE TOOL.** (The logo and specs printed on the blade should be visible from the outside) the blade by hand.

ATTACHING

1. While pressing the spindle lock (11), turn the hex bolt (15) with hex wrench (12) until the gear shaft locks.
2. Loosen the hex. head bolt by turning the wrench counterclockwise while the spindle is locked.
3. Remove the hex head bolt, washer (20) and the outer flange (16).
4. Retract the lower guard (3) back with the blade guard retracting lever (2) as far as possible toward the upper guard (5).
5. Attach the saw blade (14) against the inner flange (17) on the gear shaft and then attach the outer flange and the hex bolt with washer (20).
6. Press the spindle lock lever again, and tighten the hex head bolt by turning clockwise while the spindle is locked.

WARNING! Do not use any abrasive wheels

REMOVING

1. While pressing the spindle lock lever, turn the hex. head bolt with hex. wrench until the gear shaft locks.
2. Loosen the hex bolt by turning the wrench counterclockwise while the spindle is locked.
3. Remove the hex. head bolt and the outer flange.
4. Retract the lower guard back with the lower guard lever as far as possible toward the safety guard.
5. Remove the saw blade. Attach the outer flange and the hex. head bolt on the spindle to avoid missing.

OPERATION

WARNING!

Always operate on a flat surface. Check and ensure the working surface is flat and sturdy before operation. (Fig. 4)

WARNING!

Always operate with both hands. Using one single hand during operation is dangerous and not allowed. (Fig. 5)

BEFORE USING THE TOOL

- Check that the lower blade guard (3) fully retracts when the blade guard retracting lever (2) is moved towards the front of the upper guard (5).
- Check that the lower blade guard returns completely to cover the blade in rest position.
- Cut at a speed suited to the work piece. (Work slowly when work piece is hard.
- Inspect the saw blade frequently and replace or sharpen if dull, to avoid overloading the motor.
- To minimize dust, an extraction system can be attached to the extraction port.

SWITCHING ON AND OFF

NOTE

Before engaging the on/off switch, check the saw blade to see if it is fitted properly and runs smoothly, and the blade clamp screw is well tightened.

1. Connect the plug to the power supply.
2. To start the tool, squeeze the trigger switch (8) while the safety button (9) is depressed. To stop the tool, release the trigger switch.

ADJUSTING THE CUTTING DEPTH (Fig. 6)

1. To adjust the cutting depth, loosen the cutting depth locking knob (10).
2. Slide the base plate (19) to the desired depth and secure the depth adjustment lever.
3. The cutting depth can be determined by measuring the distance between the blade protrusion and the base plate.

ADJUSTING THE CUTTING ANGLE (Fig. 7)

1. The cutting angle can be adjusted to any desired angle between 0° and 45°.
2. Loosen the bevel angle locking knob (4) which is positioned at the front of the saw and move the base plate to the desired angle according to the bevel scale.
3. After adjusting the desired angle, be sure to retighten the bevel angle locking knob firmly.

PARALLEL GUIDE (Fig. 8)

Parallel guide fence (13) is available for operating the saw without drawing guide lines on the work piece.

TO INSTALL:

1. Unplug the saw.
2. Insert arm of the parallel guide through the two slots on the base plate.
3. Adjust parallel guide to the desired width and set in place with the parallel guide fence locking knob (18).

The parallel guide can be attached on either the right or left side of the base plate.

CAUTION! The parallel guide should only touch the work piece slightly and should not be forced.

MAINTENANCE

After use, check the tool to make sure that it is in top condition.
It is recommended that you take this tool to an Authorized Service Center for a thorough cleaning and lubrication at least once a year.
DO NOT MAKE ANY ADJUSTMENTS WHILE THE MOTOR IS IN MOTION.
ALWAYS DISCONNECT THE POWER CORD FROM THE RECEPTACLE BEFORE CHANGING REMOVABLE OR EXPENDABLE PARTS (BLADE, BIT, SANDING PAPER ETC.), LUBRICATING OR WORKING ON THE UNIT.

WARNING!

To ensure safety and reliability, all repairs should be performed by an AUTHORIZED SERVICE CENTER or other QUALIFIED SERVICE ORGANIZATION.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.