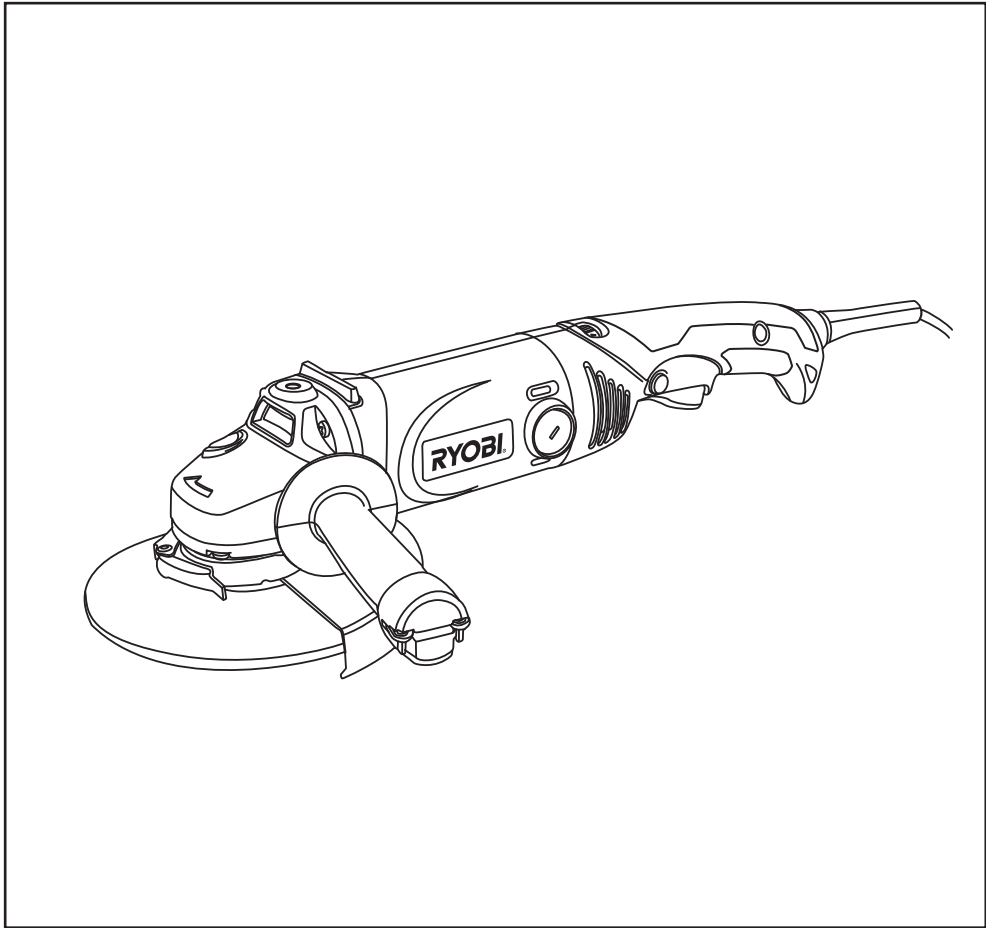




EAG1518RG

**GRINDER SANDER POLISHER
OWNER'S OPERATING MANUAL**



DESCRIPTION

1. Switch trigger
2. Lock button
3. Wheel guard
4. Auxiliary handle
5. Rotary lock button
6. Variable speed control
7. Inner disc flange
8. Outer clamp nut
9. Spindle shaft
10. Woolen type bonnet
11. Grinding wheel
12. Sanding pad
13. Wrench
14. Spindle lock button
15. Live tool indicator
16. Tool-less guard clamp
17. Spanner nut
18. Sanding paper

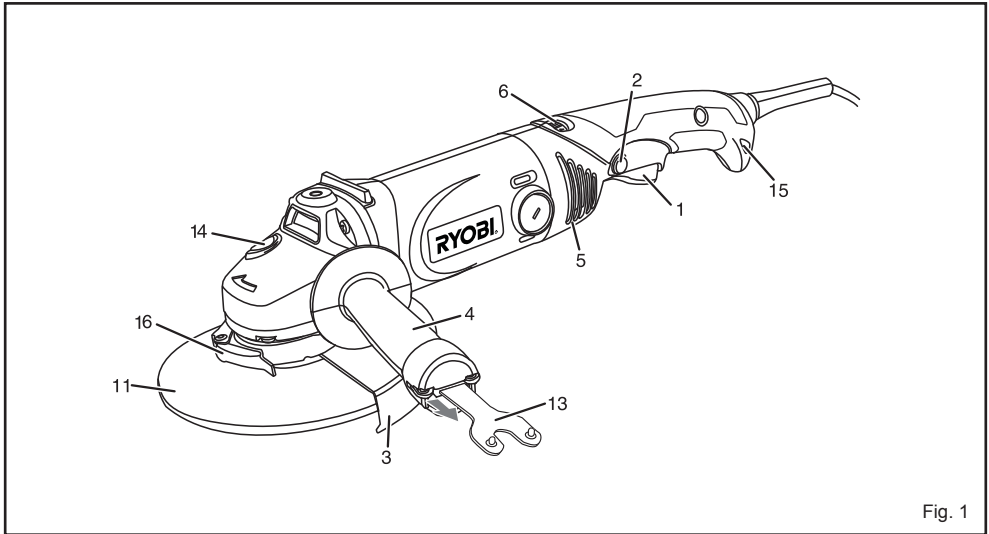


Fig. 1

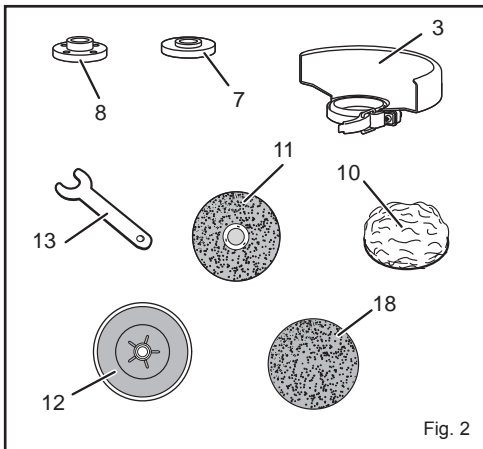


Fig. 2

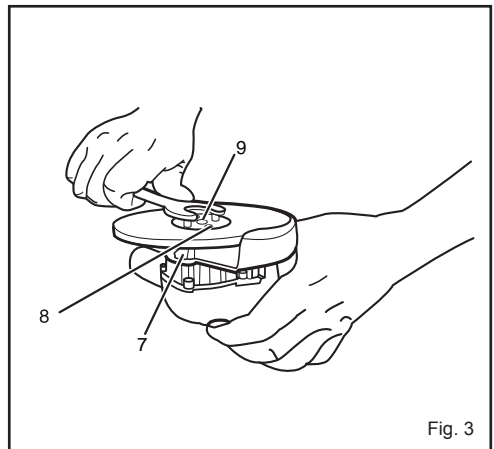
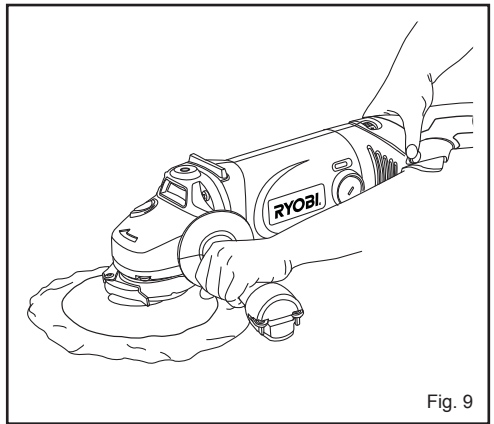
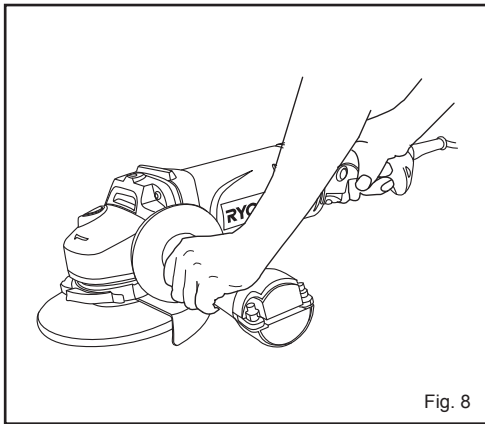
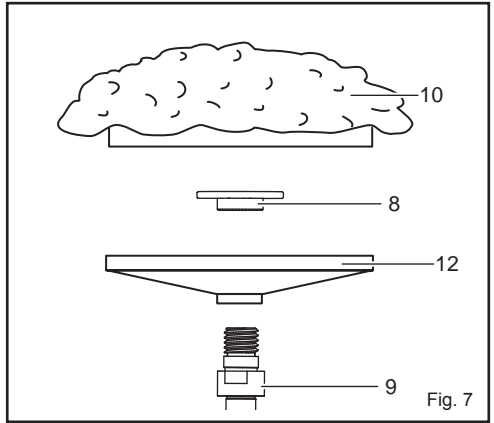
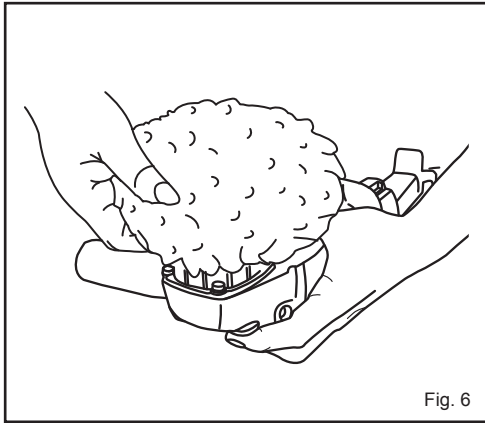
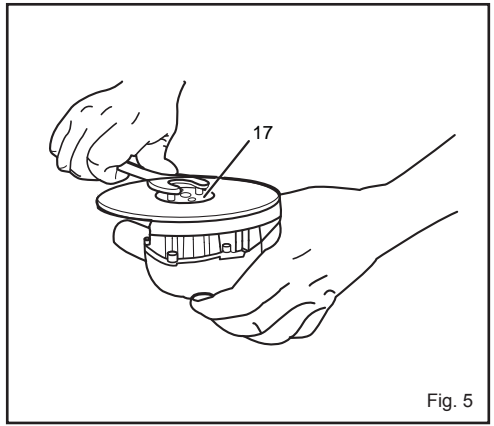
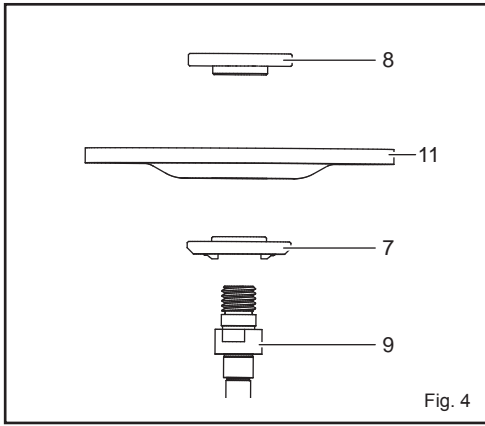


Fig. 3



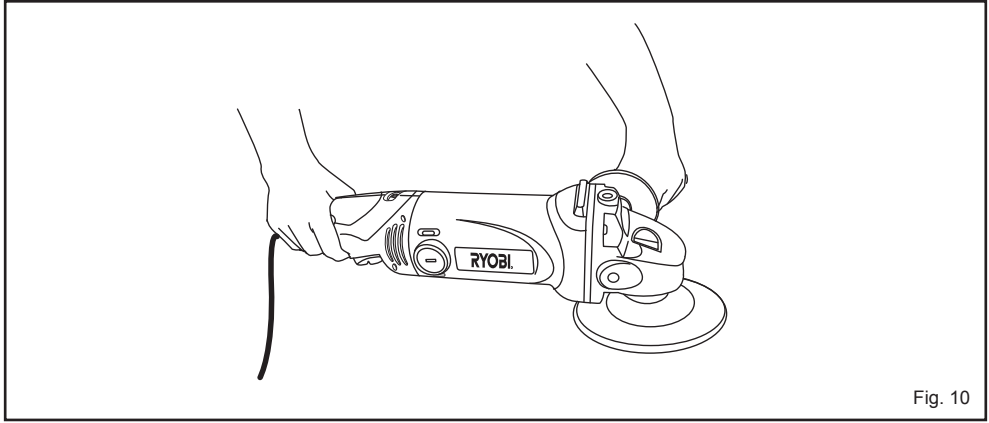


Fig. 10

Important!

It is essential that you read the instructions in this manual before operating this machine.

Subject to technical modifications.

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 adaptor 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 power tools 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 can not 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 tools 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 and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from 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.

SAFETY WARNINGS COMMON FOR GRINDING, SANDING OR POLISHING OPERATIONS

- a. This power tool is intended to function as a grinder, sander or polishing tool. 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 wire brushing or cutting-off are not recommended to be performed with this power tool. Operations for which the power tool is 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 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. Threaded mounting of accessories must match the grinder spindle thread. For accessories mounted by flanges, the arbour hole of the accessory must fit the locating diameter of the flange. 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. 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 a 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 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 a workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- j. Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.
- k. Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- l. 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.
- m. 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.
- n. 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.
- o. Do not operate the power tool near flammable materials. Sparks could ignite these materials.
- p. 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 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 grinding surface of centre depressed wheels must be mounted below the plane of the guard lip.** An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected.
- c. **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, accidental contact with wheel and sparks that could ignite clothing.
- d. **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.

- e. **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.
- f. **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.

SAFETY WARNINGS SPECIFIC FOR SANDING OPERATIONS

- a. **Do not use excessively oversized sanding disc paper. Follow manufacturers recommendations, when selecting sanding paper.** Larger sanding paper extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc or kickback.

SAFETY WARNINGS SPECIFIC FOR POLISHING OPERATIONS

- a. **Do not allow any loose portion of the polishing bonnet or its attachment strings to spin freely. Tuck away or trim any loose attachment strings.** Loose and spinning attachment strings can entangle your fingers or snag on the workpiece.

ADDITIONAL SAFETY WARNINGS SPECIFIC FOR GRINDING OPERATIONS

- a. Check that the speed marked on the grinding wheel is equal to or greater than the rated speed of the tool.
- b. Ensure that the dimensions of the grinding wheel are compatible with the tool and that the wheel fits the spindle.
- c. All recommended accessories, such as grinding wheels must be stored in a dry place.
- d. Do not store objects on top of any accessories, such as the grinding wheels.
- e. Grinding wheels must not be used for any operation other than grinding.
- f. Inspect the grinding wheel before use to ensure that it is not chipped or cracked. Chips or cracks can cause the wheels to shatter, resulting in possible serious injury.
- g. Ensure that the grinding wheel is correctly mounted and tightened before use and run the tool at no-load speed for 30 seconds in a safe position. Stop immediately if there is considerable vibration or if other defects are detected. If this condition occurs, check the tool to determine the cause.
- h. Do not use separate reducing bushings or adapters to adapt large hole grinding wheels.
- i. Check that the workpiece is properly supported.
- j. Ensure that sparks resulting from use do not create a hazard e.g. do not hit people, or ignite flammable

- substances.
- k. Always use protective safety glasses and ear protectors.
- l. Use other personal protective equipment such as gloves, apron and helmet when necessary.
- m. Never place the tool on the floor or other surfaces while it is running. Grinding wheels continue to rotate after the tool is switched off. Never touch the wheel or place it on the floor or other surfaces while it is rotating.
- n. The flange and clamp nut must have the same outer diameter.
- o. Use the tool only for approved applications. Never use coolants or water or use the tool as a fixed tool.
- p. Grip the tool securely with both hands while operating.

Additional safety instructions

⚠ WARNING

The product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the product.

- **Keep children and visitors away.** Visitors should wear safety glasses and be kept a safe distance from work area. Do not let visitors contact tool or extension cord.
- It is recommended that this tool always be supplied via a residual current device with a rated residual current of 30mA or less.

SPECIFICATIONS

Grinding wheel:	
Diameter	180 mm (7 in)
Thickness	6 mm
Bonnet diameter	180 mm (7 in)
Voltage	220 V - 240 V ~ 50/60 Hz
Input	1500 W
Spindle thread	M14
Rated speed	1500 - 8000 min ⁻¹
Disc bore size	22.2 mm
Net weight	3.6 kg

NOTE: Be sure to check the nameplate on the product, because the voltage is subject to change depending on the area in which the product is to be used.

STANDARD ACCESSORIES

See *Figure 1 and 3.*

- Auxiliary handle
- Woolen type bonnet
- Grinding wheel
- Sanding pad
- Wrench
- Sanding nut

APPLICATIONS

Use only for the purposes listed below:

- Grinding: steel and other metals
- Polishing: painted surfaces
- Sanding: timber

OPERATION

⚠ WARNING

The tool should never be connected to the power supply when assembling parts, making adjustments, cleaning, performing maintenance, or when the tool is not in use. Disconnecting the tool will prevent accidental starting that could cause serious injury.

MAIN HANDLE

The main handle can be set to right and left at any of the three positions (0 and 90 degrees) by pressing the rotary lock button.

AUXILIARY HANDLE

- The auxiliary side handle houses the wheel lock nut wrench. To remove the wheel lock nut wrench from the auxiliary handle, pull it out by the two lugs on the wrench. When finished with the wrench, slide it back in to the auxiliary handle with the lugs facing out.
- The auxiliary handle can be attached to either side or the upper part of the gear box.

SWITCH

- To turn the tool on, press the lock button about halfway in and then pull the switch trigger.
- For continuous operation, press the lock button in completely.
- To turn the tool off, pull and release the switch trigger.

TOOL-LESS WHEEL GUARD

Release the wheel guard lock lever, then turn the tool-less wheel guard to the desired position. The maximum turning angle is 90° on either side; otherwise, the guard cannot

be locked.

VARIABLE SPEED CONTROL

The tool features variable speed control which enables you to select the most appropriate speed for the job.

Application	Speed setting
Polishing	1 - 3
Sanding	3 - 5
Grinding	6

The speed of rotation can be changed by adjusting the speed control switch to the most suitable speed for the job. The general rules for operating speed are as follows:

- Grinding: high speed
- Sanding: high speed
- Polishing: low speed

WARNING

Never become complacent while using your grinder sander, as carelessness can result in serious personal injury.

MOUNTING THE GRINDING WHEEL

See Figure 3 - 4.

Inspect grinding wheel before installing. **Do not use broken or defective parts.**

- Unplug the tool.

WARNING

Failure to unplug your grinder sander could result in accidental starting causing possible serious personal injury.

- Attach the disc flange and the wheel on the spindle before fitting the clamp nut.
- Ensure that the wheel is correctly seated over the boss on the disc flange and clamp nut.
- Depress the spindle lock button located at the right side of the gear case.
- Using the wrench provided, tighten the clamp nut in a clockwise direction.

MOUNTING THE SANDING PAD

See Figure 5.

- Unplug the tool.
- Attach the sanding pad to the spindle shaft.
- Depress the spindle lock button located at the right side of the gear case.
- Tighten by hand the sanding pad in a clockwise direction.

NOTE: Do not use sander without sandpaper. Doing so will damage the cushion.

MOUNTING THE WOOL BONNET

See Figure 6 - 7.

- Unplug the tool.
- Remove the guard for polishing applications.
- Attach the polishing pad and spanner nut to the spindle shaft.
- Depress the spindle lock button at the right side of the gear case.
- Securely tighten the spanner nut with the wrench provided.
- Cover the sanding pad with the wool bonnet.

CAUTION

Be careful not to let your hand completely cover the air vents.

GRINDING

See Figure 8.

The key to efficient operation is balanced control of the pressure and surface contact between the grinding wheel and workpiece. Flat surfaces are ground at an acute angle, usually 15 to 20 degrees with the workpiece. Allow the wheel to reach full speed before starting to grind. Too great an angle causes concentration of pressure on a small area which may gouge or ruin the workpiece. Maximum rpm is required for grinding.

POLISHING

See Figure 9.

The polishing feature is designed to bring shine to the painted surfaces of timber and metal. Work the tool in the lowest speed setting; if used with higher speed, the paint or finish can burn.

SANDING

See Figure 10.

Choose sanding paper carefully for each application for best operation and finish. To have the best sanding result, it is recommended to work with lower speed. Use the sanding feature for sanding off old paint from timber and metal surfaces. It can also be used for smoothing timber surface.

WARNING

It is recommended to use a sanding pad with a maximum speed 8000/min. The maximum rated speed of unit is 8000/min.

LIVE TOOL INDICATOR

This tool features a live tool indicator which illuminates as soon as the tool is connected to the supply. This warns the user that the tool is connected and will operate when the switch is pressed.

MAINTENANCE

After use, check the tool to make sure that it is in good condition.

It is recommended that you take the tool to a Ryobi authorised service centre for thorough cleaning and lubrication at least once a year.

WARNING

Do not make any adjustments while the motor is in motion.

Always disconnect the power cord from the socket before changing removable or expendable parts (grinding disc, cutting disc, etc.), before lubricating or working on the unit.

If the supply cord is damaged, it shall be replaced by the manufacturer, its service agent or similar qualified person in order to avoid a hazard.

WARNING

To ensure safety and reliability, all repairs should be performed by an authorised service centre or other qualified service organisations.

ENVIRONMENTAL PROTECTION



Recycle raw materials instead of disposing of as waste. The machine, accessories and packaging should be sorted for environmental-friendly recycling.

SYMBOLS



Safety Alert

V

Volts

Hz

Hertz

~

Alternating Current

W

Watts

n_0

No-load speed

n

Rated speed

min^{-1}

Revolutions or reciprocations per minute



Regulatory Compliance Mark (RCM). Product meets applicable regulatory requirements.



Double insulation



Wear ear protection



Wear eye protection



Please read the instructions carefully before starting the machine.



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

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