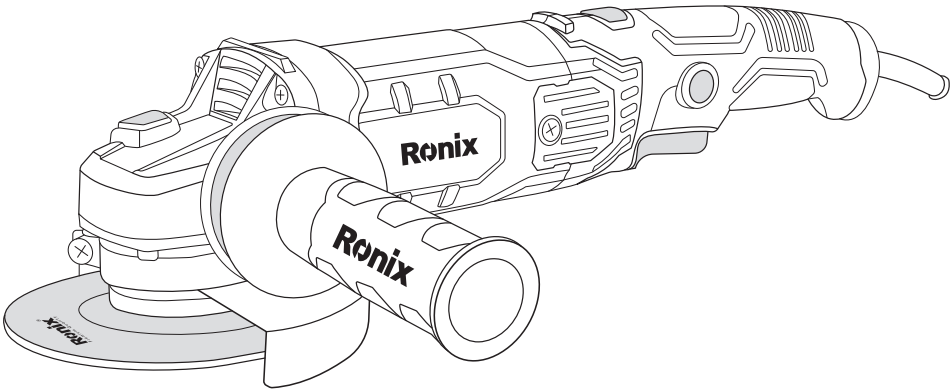
Ronix®
Premium Quality

MINI ANGLE GRINDER 1050W-125mm
3152

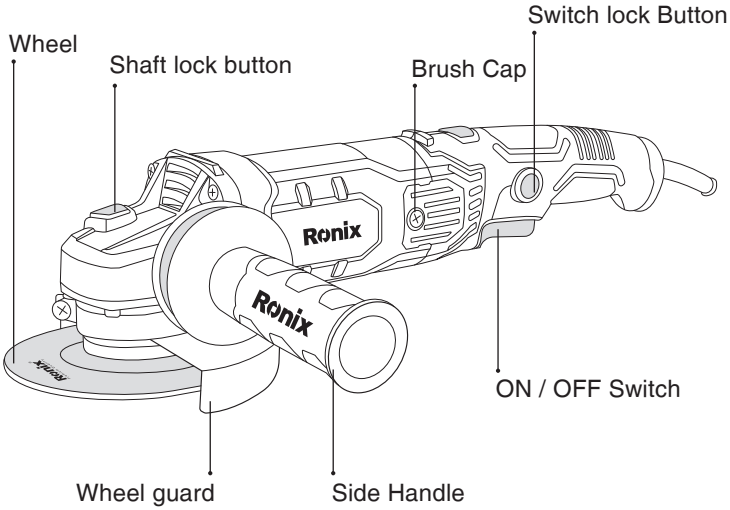


www-ronixtools-com

TECHNICAL SPECIFICATIONS

Model	**3152**
Power	1050W
Voltage	220-240V
Frequency	50-60Hz
No-Load Speed	11000RPM
Wheel Diameter	125mm
Spindle Size	M14
Weight	1.9Kg
Noise level	89-100dB
Includes	1pc Side Handle 1pc Spanner 1pc Wheel Guard 1set Carbon Brush

PART LIST



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 tools or battery operated (Cordless) Power tools.

▪WORK AREA SAFETY

- Keep work area clean and well lit. Cluttered or dark areas invites accidents.
- Don’t 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.

▪ELECTRIC SAFETY

- Power tool plugs must match the outlet. Never modify the plug in any way. Don't use any adaptor plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contacting with earthed or grounded surfaces such as pipe, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Don't expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Don't 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 increased the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Using a cord suitable for outdoor use will reduce 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.

⚠ NOTE:

The term residual current device (RCD) may be replaced by the term ground fault circuit interrupter (GFCI) or earth leakage circuit breaker (ELCB).

▪PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating a power tool. Don't 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 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 energizing power tools that have the switch on 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.
- Don't overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Don't wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose cloths, jewelry or long hair can be caught in moving parts.
- If devices are provided for connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
- Use clamps or another practical way to support and secure the workpiece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
- Do not use on a ladder or unstable support. Stable footing on a solid surface enables better control of the power tool in unexpected situations.
- Keep handles dry, clean, and free from oil and grease. Slippery hands cannot safely control the power tool.
- Always wear safety glasses with side shields. Everyday glasses may have impact resistant lenses, but they are not safety glasses. Following this rule will reduce the risk of eye injury.

- Protect your lungs. Wear a face or dust mask if the operation is dusty. Following this rule will reduce the risk of serious personal injury.
- Protect your hearing. Wear hearing protection during extended periods of operation. Following this rule will reduce the risk of serious person Injury.

▪POWER TOOL USE AND CARE

- Don't 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.
- Don't use the power tool if the switch doesn't turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- 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.
- Store idle power tools out of the reach of children and don't allow persons unfamiliar with power tool or these instructions to operate the power tool. Power tools are dangerous in the hand s of untrained users.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage o 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.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Use the power tool, accessories and tool bits etc. in accordance with the instruction, 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.

▪SERVICE

- Have your power tool serviced by qualified repair person using only identical replacement parts. This will ensure that the safety of power tool is maintained.
- Follow instruction for lubricating and changing accessories.
- Keep handles dry, clean and free from oil and grease.

▪ALL OF SAFETY RULES

1- This power tool is intended to function as a grinder 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.

2- Do not recommend use this power tool operations as sander, wire brush and so on. Used this power tool do besides appointed function will cause hazards and personal injuries.

3- 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.

4- 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 fly apart.

5- 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.

6- The arbor size of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool. Accessories with arbor 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.

7- Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pads for cracks, tear or excessive wear. 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.

8- 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 work piece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

9- Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of the work piece or of a broken accessory may fly away and cause injury beyond the Immediate area of operation.

10- Hold the power tool only by the insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own power cord. Contact with a live-wire will also make exposed metal parts of the power tool live" and shock the operator.

11- 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.

12- Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface arid pull the power tool out of your control

13- 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.

14- Regularly clean the air vents of the power tool. The fan of the motor will draw dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

15- Do not operate the power tool near flammable materials. Sparks

could ignite these materials.

16- Do not use accessories that require coolant. Using water or other coolants may result in electric cauterization or electric 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 work piece, 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 the 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.

1- Maintain a firm grip with your hands on the power tool and position your body and arm to allow you to resist kickback forces. Always use the auxiliary handle, for maximum control over kick- back or torque reaction during start- up. The operator can control torque reactions or kick back forces, if proper precautions are taken.

2- Never place your hand near the rotating accessory. The accessory may kickback over your hand.

3- Do not position your body in the area where the power tool will move if kickback occurs. Kickback will propel the tool in the direction opposite to the wheel's movement at the point of snagging.

4- Use special care when working sharp edges, sharp sides etc. Avoid bouncing and snagging the accessory. Sharp edges, Sharp sides or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.

5- Do not attach a saw chain, woodcarving blade or toothed saw blade.

Such blades create frequent kickback and loss of control.

▪ADDITIONAL GRINDING SAFETY WARNING

1- Use only wheel types that are recommend for you power tool and the specific guard designed for the selected wheel. Wheel for which the power tool was not designed cannot be adequately guarded and are unsafe.

2- The guard must be firmly 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 the operator from broken wheel fragments and accidental contact with the wheel.

3- Wheels must be used only for recommended applications. For example: Do not grind with the side of a cut-off wheel. Side forces applied to these wheels may cause them to shatter.

4- 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.

5- Do not use worn down wheels from larger power tools. A wheel intended for a larger power tool is not suitable for the higher speed of a smaller tool and may burst.

7- USE AND CARE OF ANGEL GRINDER

1- The grinder is intended for grinding.

2- Avoid the wheel impact of force actions. If this condition occurs, stop the machine immediately and check the machine.

3- If there is considerable vibration or other defects are detected in operation stop the machine immediately and check the machine to determine the cause.

4- When grinding metal flying sparks are produced. Take care that sparks resulting from use do not hit persons.

5- Some dust created by power grinding contains chemicals known to birth defects. Do not work with materials containing asbestos.

6- Shorten the clean periods when working in dusty conditions.
7- The machine should only be used only for dry working.

⚠ WARNING!

Some dust created by power Cutting contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints
- Arsenics and chromium from chemically reacted lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well-ventilated area, and work with approved safety equipment.

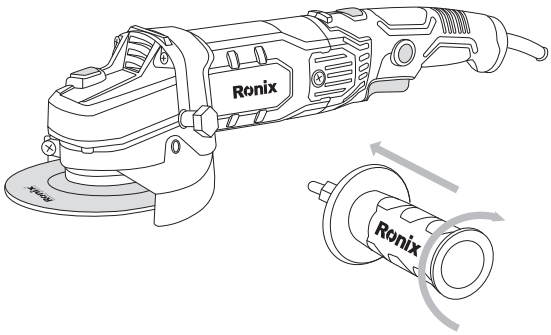
OPERATION

1- POWER SUPPLY

The power tool supply must match the nameplate data.

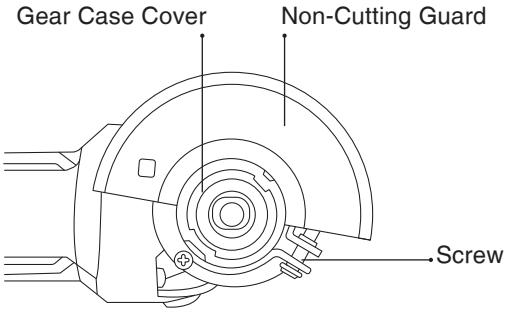
2- INSTALLING SIDE HANDLE

Thread side handle into side handle socket on desired position and tighten securely. Please use the side handle fully.



3- ADJUSTING AND DISASSEMBLING GUARD

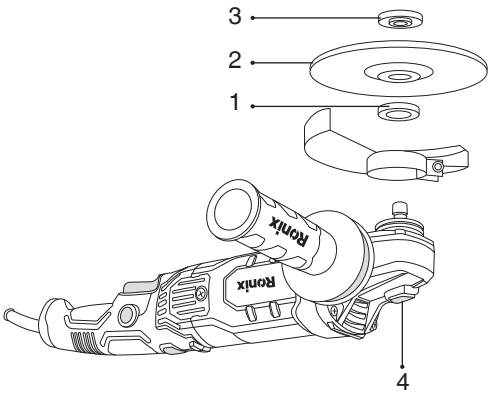
When you fit the guard, ensure that the prominence on the hoop of the guard coincides with the groove in the gear-case cover. Then turn the guard to the working position counter-clockwise. At last, tighten the bolt. (Click to the instructions in the direction for the installation, contrary to the disassembly.)



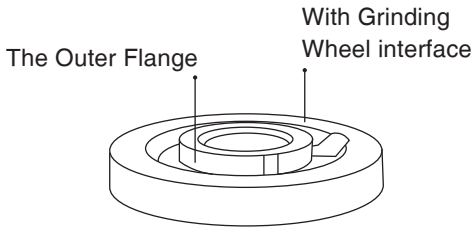
4- MOUNTING WHEEL

⚠ WARNING!

Only use grinding wheels with maximum safe operating speed rated at or above 80m/s. Never use damaged or Imbalance grinding wheels.



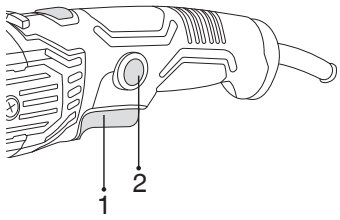
1- In the spindle completely static situation, lock it by pressing the spindle lock button(4),
2- Slip the inner-flange (1) onto spindle, wheel (2) loaded withstood the inner flange. Then have the thread on flange screw together to the spindle (Pays attention to the outer-flange (3) the Installment direction following chart to show: When installment grinding wheel and cutting disc uses the different surface contact piece).



3- Check the compatibility of the wheel and flange, no clearance is allowed. Then tighten the outer flange with the spanner.
4- Unplug the spanner and loosen the spindle lock button.

5- SWITCH ON AND OFF

⚠ WARNING!
Make sure you can control the switch freely and keep it off before plugging grinder.



1- ON: press switch (1), tool will start, the switch lock button (2) again

the exertion is pressed, the Lockdown tool working state.
2- OFF: To stop the tool, press the on/off switch key once to stop the tool.
3- The tool is designed to automatically turn off when the tool's carbon is exhausted. This is designed to avoid engine damage.

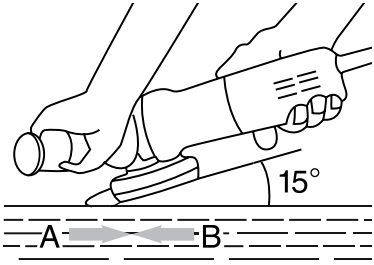
APPLICATIONS

⚠ **WARNING:** To reduce the risk of injury, electric shock and damage to the tool, before any work check the utility lines electricity, gas or water supply line are hidden in the work area.

⚠ **WARNING:** Firmly grasp primary hold part of tool and side handle before starting.

▪GRINDING APPLICATION

1- When grinding, keep a 15 angle between the wheel and the work piece, the best grinding results can be achieved with part contact.
2- For avoid the work piece will not overly heat up nor discolor and no ridges will be formed, move the machine back and forth with moderate pressure.



3- Never use cut-off wheel to grind work piece.
4- Always hold the tool properly so that sparks and grinding dust fly away from the body.

⚠ WARNING:
Sparks generated when grinding metal. Take care that no combustible material presented In the area of flying sparks.

10- TOOL MAINTENANCE

1- Before any work on the machine, pull the power plug or take out of the battery pack
2- Use clean cloths and mild soap to remove dirt, dust, etc.
3- Never use gasoline, benzene, diluent, alcohol or similar to clean tools. otherwise, will cause the tools discoloration, deformation, or cracking.
4- Keep the vents clean. Clean all parts of the tool, clean dust periodically. To prevent debris from entry.
5- All service MUST only be performed by Authorize Service Center. ALWAYS use only accessories that are recommended for this tool.

⚠ WARNING!
Do not allow the water enter the motor and the tool full immersed in the ware, which will result in motor malfunction and electric shock.

11- SERVICE

Problems	Reasons	Solutions
1- The motor stops running	1- Unconnected to power source	1- Connect to power source
	2- Plugs not fully connect	2- Check all plugs
	3- Switch out of work	3- Replace or repair the switch
	4- Brushes not touch the commutator	4- Replace the brushes with two new ones

2- Running slowly (Not running with the noise at the beginning of power turn-on)	1- Switch out of work	1- Replace or repair the switch
	2- Mechanical trouble	2- Check mechanical parts
3- Commutator sparkle	1- Armature short circuit	1- Repair the armature
	2- Poor connection between the brush and the commutator	2- Replace it with a new one
	3- Commutator surface not smooth	3- Clean the commutator surface

MINI ANGLE GRINDER

1050W-125mm

www.ronixtools.com