



RYOBI RJ162V RECIPROCATING SAW



GENERAL SAFETY RULES – for all Power Tools

WORK AREA

- **Keep work areas clean.** Cluttered areas invite accidents.
- **Avoid dangerous environments.** Don't use power tools in damp or wet locations. Do not expose power tools to rain. Keep work area well lit.
- **Avoid gaseous areas.** Do not operate portable electric tools in explosive atmospheres in presence of flammable liquids or gases. Motors in these tools normally spark, and the sparks might ignite fumes.
- **Keep children away.** Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.

PERSONAL SAFETY

- **Guard against electric shock.** Prevent body contact with grounded surfaces like pipes, radiators, ranges, and refrigerator enclosures. Rubber gloves and non-skid footwear are recommended when working outdoors, where damp or wet ground may be encountered.
- **Dress properly.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Wear protective hair covering to contain long hair.
- **Use safety equipment. Wear safety goggles or glasses with side shields.** Wear hearing protection during extended use of power tools and dust mask for dusty operations.
- **Stay alert. Use common sense.** Watch what you are doing. Do not operate tool when you are tired or under influence of drugs.
- **Remove adjusting keys and wrenches.** Form habit of checking keys and adjusting wrenches before turning it on.
- **Avoid accidental starting.** Don't carry plugged in tool with finger on switch. Be sure switch is OFF when plugged in.
- **Don't overreach.** Keep proper footing and balance at all times.

- **Before connecting the tool** to power source, be sure voltage supplied is the same as that specified on the nameplate of the tool. If in doubt, DO NOT plug in tool. A power source with voltage greater than that specified for the tool can result in serious injury to the user—as well as damage to the tool. Using a power source with voltage less than the nameplate rating is harmful to the motor.

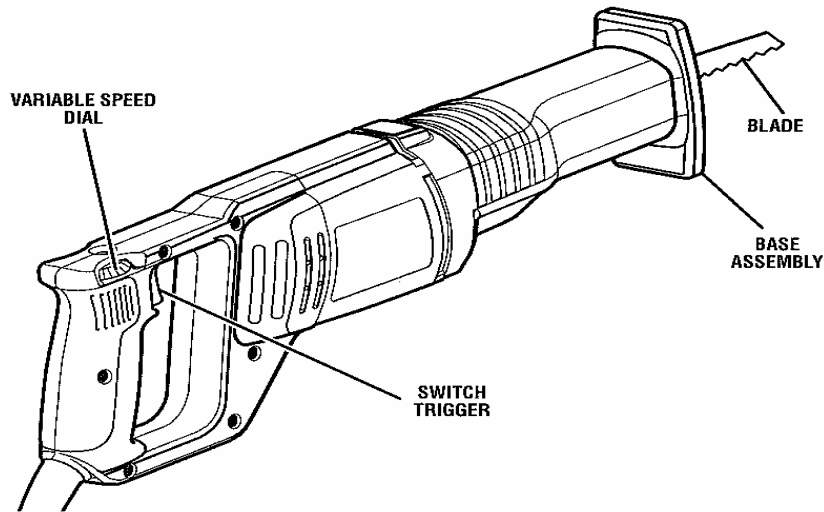
TOOL USE AND CARE

- **Don't force tool.** It will do the job better and safer at the rate for which it was designed.
- **Use the right tool.** Don't use tool for purpose not intended. For example, don't use circular saw for cutting tree limbs or logs.
- **Secure work.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate the tool.
- **Don't abuse cord.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from spinning blade, bits or any other moving part while the tool is in use.
- **Outdoor use extension cords.** When tool is used outdoors, use only extension cords suitable for use outdoors.
- **Disconnect tools** when not in use; before servicing; when changing blades, bits, cutters, etc.
- **Do not alter or misuse tool.** These tools are precision built. Any alteration or modification not specified may result in a dangerous condition.
- **Check damaged parts.** Check damaged parts. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation.

ELECTRICAL

- This tool has a precision-built electric motor. It should be connected to a power supply that is 120 volts, 60 Hz, AC only (normal household current). Do not operate this tool on direct current (DC). A substantial voltage drop will cause a loss of power and the motor will overheat. If your tool does not operate when plugged into an outlet, double-check the power supply.
- **Extension cords:** When using a power tool at a considerable distance from a power source, be sure to use an extension cord that has the capacity to handle the current the tool will draw. An undersized cord will cause a drop in line voltage, resulting in overheating and loss of power. When working outdoors, use an extension cord that is designed for outside use. This type of cord is designated with "WA" on the cord's jacket.
- **WARNING:** Keep the extension cord clear of the working area. Position the cord so that it will not get caught on lumber, tools or other obstructions while you are working with a power tool. Failure to do so can result in serious personal injury.
- **WARNING:** Check extension cords before each use. If damaged replace immediately. Never use tool with a damaged cord since touching the damaged area could cause electrical shock resulting in serious injury.

KNOW THIS RECIPROCATING SAW



OPERATING INSTRUCTIONS

You may use this tool for the purposes listed below:

- Cutting Wood and Wood Products
- Cutting Metal
- Plunge Cutting Wood and Wall Board
- Cutting Plastic

WARNING: The tool should never be connected to a power supply when you are assembling parts, making adjustments, cleaning, performing maintenance, or when the tool is not in use.

Turning the saw on/off

- To turn the saw on: Depress the switch trigger.
- To turn the saw off: Release the switch trigger.

Adjusting the speed

- The variable speed feature allows the saw to operate at speeds that can be increased by rotating the dial from 1 (slow) to 6 (fast). The dial is conveniently located on the handle, allowing operator control of blade speed.
- To INCREASE the speed: Turn the speed dial to a higher number setting.
- To DECREASE the speed: Turn the speed dial to a lower number setting.

Selecting blades

- Selecting the correct type of blade is important in order to obtain the best performance from the saw. Select the blade based on the application and on the material you wish to cut. Selecting the right blade will give you a smoother, faster cut and prolong the life of the blade.
- Blades with fewer teeth, 10 teeth per inch (TPI) are typically used for cutting wood, while blades with more teeth are better for cutting metal or plastic. We recommend 14 TPI for plastics and soft metals and 18 TPI for hard metals.

Installing Blades

- The toolless blade change system eliminates the need for tools when changing the blade.
- 1) Unplug the saw.
- 2) Lift the blade release lever.
- 3) Insert the blade fully, tooth side down.
- 4) Lower the blade release lever.

CUTTING TIPS

- Face the good side of the material down and secure it in a bench vise or clamp it down.
- Draw cutting lines or designs on the side of the material facing up towards you. Then place the front edge of the saw foot on the work and line up the blade with the line to be cut.
- Build up cutting rate gradually. Cut close to the line, unless you want to leave stock for finish sanding.
- When following curves, cut slowly so the blade can cut through cross grain. This will give you an accurate cut and will prevent the blade from wandering.

Operating the saw

- Secure the workpiece to a work bench or table with a vise or with clamps.
- Make sure the saw blade is clear of any foreign material and that the power cord and extension cord are out of the blade path.
- Hold the saw firmly in front of and clearly away from you.
- Mark the line of cut clearly.
- Depress the switch trigger to start the cutting action.
- Set the base assembly against the workpiece.
- **NOTE: Do not force.** Use only enough pressure to keep the saw cutting. Let the blade and saw do the work. Keep pressure on the base, against the workpiece.

Plunge Cutting

- Secure the workpiece to a work bench or table with a vise or with clamps.
- Make sure the saw blade is clear of any foreign material and that the power cord and extension cord are out of the blade path.
- Hold the saw firmly in front of and clearly away from you.
- Mark the line of cut clearly.
- Choose a convenient starting point inside the cutting area and place the tip of the blade over that point.
- Rest the front edge of the base assembly on the workpiece and hold it firmly in position during the cut.
- Depress the switch trigger and allow the saw blade to reach full cutting speed.
- **WARNING:** Make sure the blade does not touch the workpiece until the motor reaches full speed. Failure to heed this warning can cause you to lose control of the saw and result in serious injury.
- Tilt the saw downward until the tip of the blade starts cutting the workpiece.
- Allow the saw to penetrate the workpiece.

- Tilt the saw until the blade is perpendicular to the workpiece.
- **WARNING:** Blades longer than 6 in. can whip and should not be used for plunge cutting. Failure to heed this warning can result in serious personal injury.

Metal Cutting

You may cut metals such as sheet steel, pipe, steel rods, aluminum, brass, and copper with this saw. Observe the following tips when metal cutting:

- Be careful not to twist or bend the saw blade.
- **Do not** force the tool and use a slow speed setting.
- Use cutting oil when cutting soft metals and steel. Cutting oil also keeps the blades cool, increases cutting action, and prolongs blade life.
- **Never** use gasoline since normal sparking of motor could ignite fumes.
- Clamp workpiece firmly and cut close to the clamping point to eliminate any vibration of the work. When cutting conduit pipe or angle iron, clamp the workpiece in a vise if possible and cut close to the vise. To cut thin sheet material, “sandwich” the material between hardboard or plywood and clamp the layers to eliminate vibration and material tearing.
- Always keep firm pressure on the base to hold it securely against the workpiece.