



OWNER'S OPERATING MANUAL
1200 WATT ELECTRONIC ROUTER
MODEL ERT241200



SPECIFICATIONS :

Power Input.....1200 watt
No Load Speed.....15000 - 33000 r.p.m.
Collet Capacity.....1/2", 1/4"
Weight.....3.8 kg



**DOUBLE
INSULATED**



THANK YOU FOR BUYING A RYOBI ELECTRONIC ROUTER

Your new router has been engineered and manufactured to Ryobi's high standard for dependability, ease of operation, and operator safety. Properly cared for, it will give you years of rugged, trouble free performance.



CAUTION: Carefully read through this entire owner's manual before using your router.

Pay close attention to the Rules for Safe Operation, Warnings, and Cautions.

If you use your router properly and only for what it is intended, you will enjoy years of safe, reliable service.

Thank You again for buying Ryobi tools.

SAVE THIS MANUAL FOR FUTURE REFERENCE.

RULES FOR SAFE OPERATION

The purpose of safety rules is to attract your attention to possible dangers. The safety symbols and the explanations with them, require your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instruction or warnings they give are not substitutes for proper accident prevention measures.



SAFETY ALERT SYMBOL. Indicates caution or warning. May be used in conjunction with other symbols or pictures.



WARNING: Failure to obey a safety warning can result in serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.



WARNING: Do not attempt to operate this tool until you have read thoroughly and understood completely, safety rules, etc. contained in this manual. Failure to comply can result in accidents involving fire, electric shock or serious personal injury. Save owners manual and review frequently for continuing safe operation and instructing others who may use this tool.



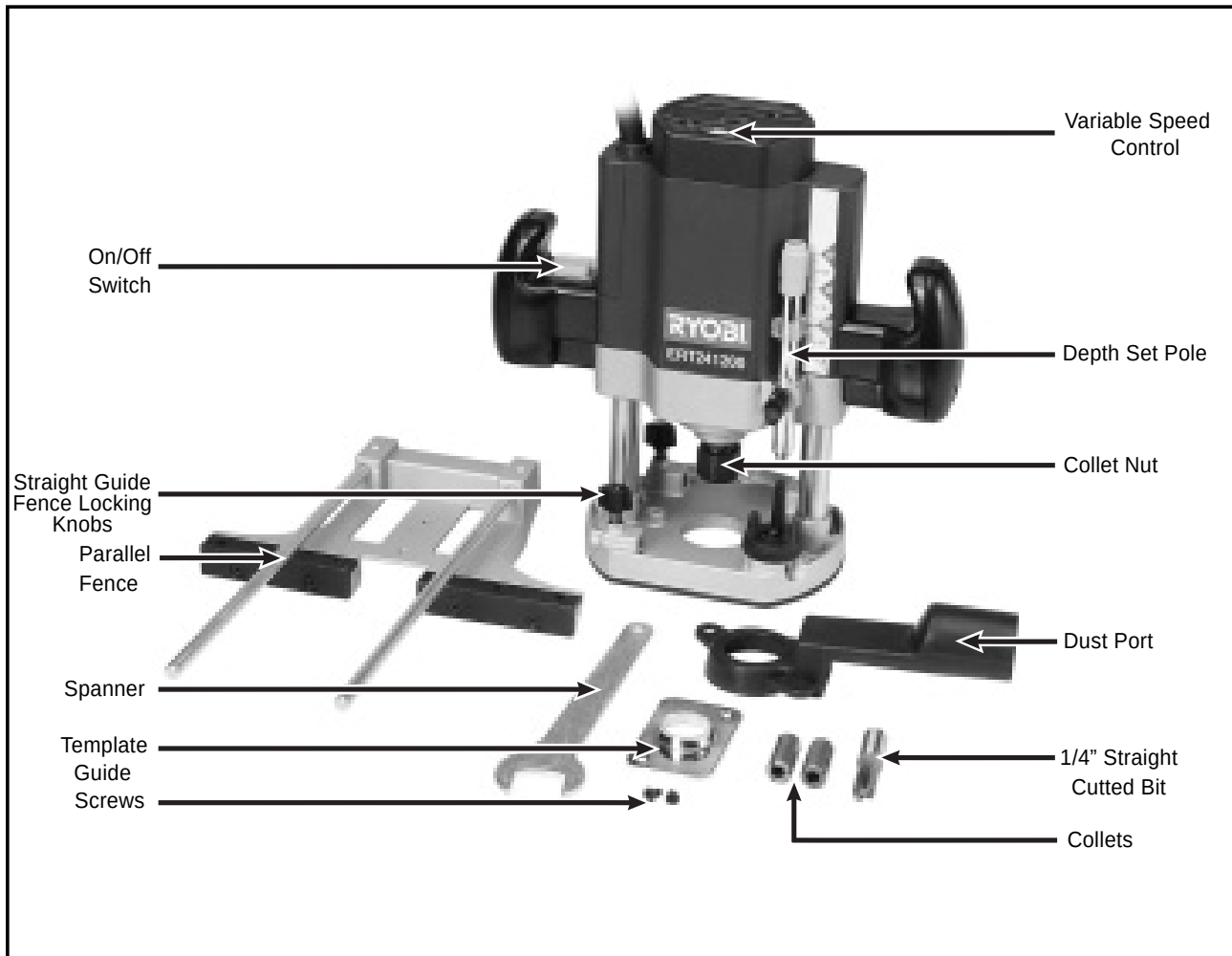
The operation of any tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields.

- 1. KNOW YOUR POWER TOOL.** Read owners manual carefully. Learn its applications and limitations as well as the specific potential hazards related to this tool.
- 2. GUARD AGAINST ELECTRICAL SHOCK BY PREVENTING BODY CONTACT WITH GROUNDED SURFACES.** For example, pipes, radiators, ranges, refrigerator enclosures.
- 3. KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- 4. AVOID DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations or expose to rain. Keep work area well lit.
- 5. 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.
- 6. STORE IDLE TOOLS.** When not in use, tools should be stored in a dry and high or locked-up place, out of reach of children.
- 7. DON'T FORCE TOOL.** It will do the job better and safer at the rate at which it was designed.
- 8. USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool. Don't use tool for purpose not intended.
- 9. DRESS PROPERLY.** Do not wear loose clothing or jewellery. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Also wear protective hair covering to contain long hair.

- 10. ALWAYS WEAR SAFETY GLASSES.** Everyday eyeglasses have only impact resistant lenses, they are not safety glasses.
- 11. PROTECT YOUR LUNGS.** Wear a dust mask if operation is dusty.
- 12. PROTECT YOUR HEARING.** Wear hearing protection during extended periods of operation.
- 13. DON'T OVERREACH.** Keep proper footing and balance at all times. Do not use tool on a ladder or unstable support. Secure tools when working at elevated levels.
- 14. MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories.
- 15. REMOVE ADJUSTING KEYS AND WRENCHES.** Form a habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- 16. NEVER USE IN AN EXPLOSIVE ATMOSPHERE.** Normal sparking of the motor could ignite fumes.
- 17. KEEP HANDLES DRY, CLEAN AND FREE FROM OIL AND GREASE.** Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum based products, or any strong solvents to clean your tool.
- 18. STAY ALERT AND EXERCISE CONTROL.** Watch what you are doing and use common sense. Do not operate tool when you are tired. Do not rush operation of tool.
- 19. CHECK DAMAGED PARTS.** Before further use of the tool, a guard or any 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. A guard or any other part that is damaged should be properly repaired or replaced by an authorised service centre.
- 20. DO NOT USE TOOL IF SWITCH DOES NOT TURN IT ON AND OFF.** Have defective switches replaced by authorised service centre.
- 21. DO NOT OPERATE THIS TOOL WHILE UNDER THE INFLUENCE OF DRUGS, ALCOHOL OR ANY MEDICATION.**
- 22. THE APPLIANCE IS NOT INTENDED FOR USE BY YOUNG OR INFIRM PERSONS WITHOUT SUPERVISION. YOUNG CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE.**

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

Due to continued product refinement policy, product features and specifications can and will change without notice. Check current features and specifications with your retailer.



■ ON/OFF SWITCH (Fig 1)

Your ERT241200 Router starts and stops by depressing the On/Off Switch located on the body of the tool. Push the switch down to start the Router. It will lock into place, allowing you to remove your finger while the Router remains in operation. Always ensure you are holding the Router properly before depressing the switch to turn the tool on. To turn the Router off, simply push the switch up.

■ VARIABLE SPEED CONTROL (Fig 1)

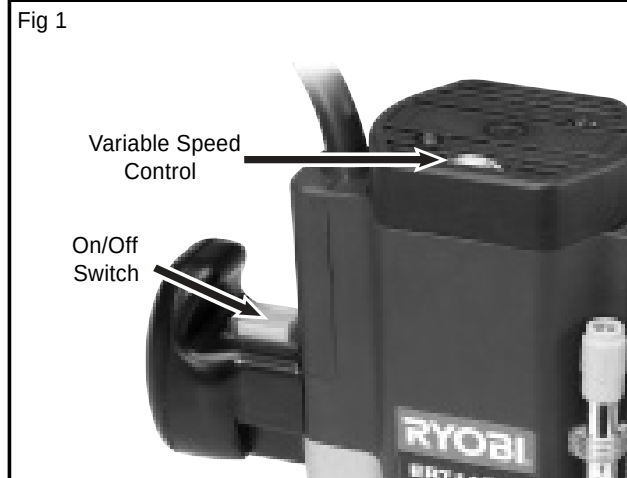
Your Router features variable speed control to greatly increase the versatility of the tool. This can be used to adjust the rotational speed of the bit to its size and the material being worked on.

NOTE: Select high speed for larger router bits and heavy grained timber. Use lower speed only for very small router bits and composition board. Do not overload the router as this may cause motor damage at lower speed.

Speed Setting

The actual speed will depend on the material and other conditions and is best determined by use on a scrap piece of material before routing the actual workpiece.

NOTE: Do not run the tool at low speeds for extended periods without occasionally running at high speed with no load applied. At lower speeds the fan does not cool the motor as effectively as it does at high speed and the motor may overheat.



■ DUST EXTRACTION (Fig 2)

Mount the dust port on the base with hexagon screws supplied. It is advisable to have the outlet on the opposite side from the On/Off switch on the body of the Router to allow free access to the On/Off switch. The dust port can be connected to the dust extraction channel.

NOTE: Outlet is on the opposite side of the body to the On/Off switch.



Fig 2

■ INSTALLING & REMOVING ROUTER BITS (Fig 3 & 4)

Ensure that the bit you wish to use is suited for your Router. It must be capable of at least 28000 r.p.m

Also, ensure that the tool is switched off and unplugged before installing or removing the bit.

Before use, check that the bit to be installed for any cracks or chips. If the bit shows any sign of damage do not use it.

Insert the bit into the collet to a depth of at least twice its diameter. Finger tighten the collet nut until the bit is held in place. Depress spindle lock button (situated above the collet) with finger, locking spindle into place. With the spanner provided, firmly tighten the collet nut until the bit is securely held.

Never tighten the collet nut without a cutter bit in the collet.

Be sure to remove the spanner then plug the unit to the power supply. Turn the Router on to check for any undue vibration or wobbling which may indicate the bit is damaged or not properly



WARNING Router bits are extremely sharp
Take care when inserting and removing bits
as they can cause serious injury.

Removal is a reverse of the above procedure.



WARNING Do not tighten the collet nut
without first inserting a bit or damage to the
collet cone will result.



Fig 3

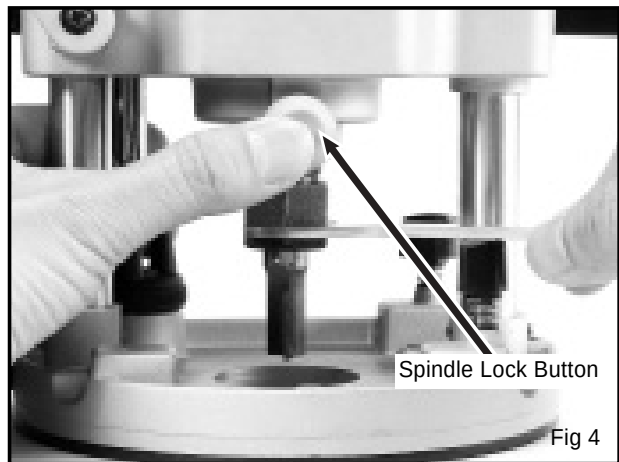


Fig 4

installed.

■ LOCK LEVER (Fig 5 & 6)

The lock lever on your Router is adjustable. To place the lever in a position with which you are comfortable, remove the phillips head screw, pull the lever off its retaining shaft then place it to your preferred position and re-tighten the screw.

■ SETTING THE DEPTH OF CUT (Fig 7)

1. Insert the bit into the Router as outlined previously.
2. Loosen the wing screw retaining the depth set pole.
3. With the Router on a flat surface, loosen the lock lever and lower the Router body until the bit just touches the surface. Tighten the lock lever.
4. Lift up the depth set pole and lift and rotate the triple depth set block to a suitable position.
5. Allow the depth set pole to rest on the threaded bolt in the triple depth set block and note the scale reading where it enters the upper housing.
6. Add the require depth of cut to the scale reading (in mm), move the depth set ploe up to the reading and tighten the wing screw. The Router is now set for the required depth.

NOTE: Always do a trial run of a new set depth on a scrap piece of material to ensure the depth of cut is exactly as required.

NOTE: When you have plunged the router into the timber



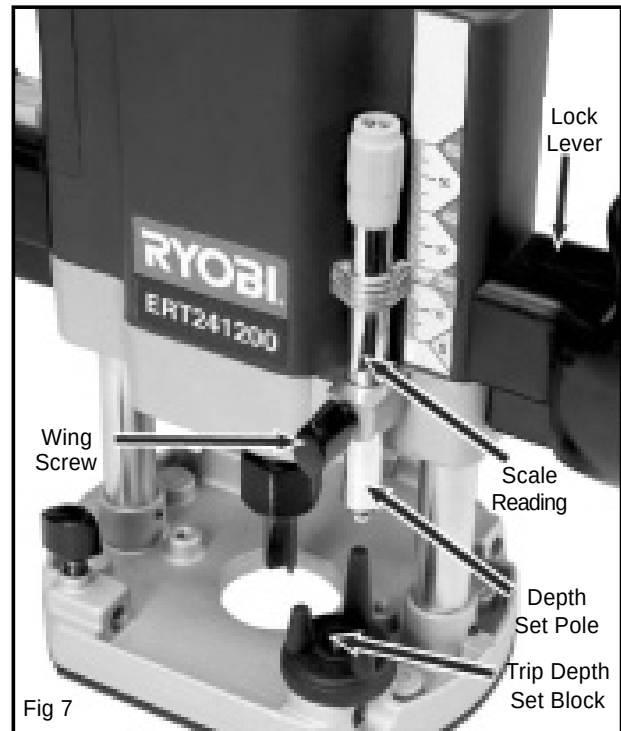
to the required depth it is essential that the depth setting lock lever be locked **TIGHTLY** into the locked position.

If making a deep cut, it is advisable to make more than one pass to achieve the desired depth. The depth of cut achievable with each pass depends greatly on the size of the bit and the material being worked. Excessive depth of cut will unduly labour the motor, place excessive strain on the bit, make the Router more difficult to control and significantly reduce the quality of the cut being made.

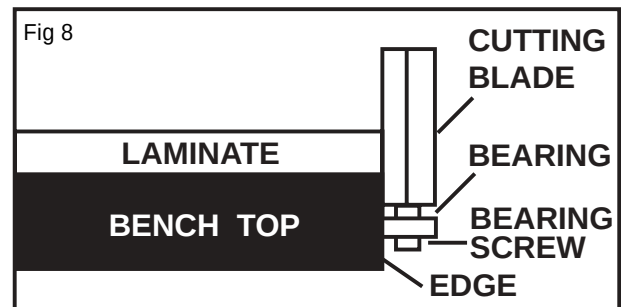
The triple depth set block can be used to assist in making multiple passes, particularly when working on more than one piece of material. If the final depth of cut is set using the shortest of the three threaded bolts, the two longer bolts can be set to two appropriately shallower depths. Using the block in this manner removes the necessity for resetting the depth set pole for each pass.

■ ROUTING

1. Be sure the work piece is clamped or otherwise firmly secured.
2. Switch on the Router and allow the motor to come up to the full selected speed.
3. Plunge the bit down into the work piece to the set depth and **firmly lock it in place with the lock lever.**
4. Holding the tool firmly with both hands, progress smoothly through the cut until complete.



5. Release the lock lever and allow the bit to come free of the



work piece before removing the Router.

■ TRIMMING (Fig 8)

1. You must select a bit that has a bearing attached.
2. When trimming follow Router directions.
3. To sight work easier, dust extractor might need to be removed.
4. NOTE: If the edge where your bearing is running along is laminated or veneered, run some masking tape along it to protect the surface.
5. The bearing changes the distance trimmed. Different bearing size are available from your retailer.
6. Always check that the trimming bit blade does not damage other surfaces.

■ DIRECTION OF FEED

The Router motor, and therefore the bit, revolves in a clockwise direction. This gives the tool a tendency to twist counter clockwise in your hands, particularly when starting the tool. The router bits are designed to use this clockwise rotation to assist in the cutting and clearing of the material. Therefore when using

the Router it should always be moved from left to right as you are facing the workpiece. When cutting edges, move the Router anti-clockwise for outside edges and clockwise when cutting inside edges.

■ RATE OF FEED

The rate at which the Router is moved through the material has a significant effect on the quality of the cut and the length of service you will get from your Router and bits.

Moving the Router through the cut too fast, as well as possibly overloading the tool and damaging the bit, will cause the bit to take larger pieces of material with each rotation, thereby causing a rough, uneven cut.

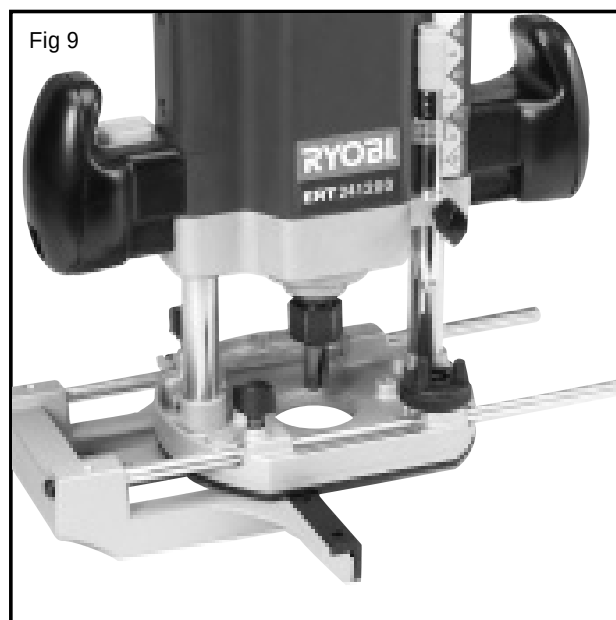
Moving the Router through the cut too slowly tends to cause burning of the timber and if excessive, will cause overheating of the bit.

The proper feed rate to use depends on the bit size, the material being cut, the depth of cut and the speed selected. With all these variables the best way to ensure that you get the best quality and efficiency of cut is to practice on a scrap piece of the same material to get a feel for what feed rate to use. This will also show you exactly how the cut will look and allow you to check your cutting depth.

■ STRAIGHT CUTS (Fig 9 & 10)

The straight guide is used for straight cuts along a work piece with a straight edge that can be followed. To use the guide attach the two fence poles to the fence bracket with the allen screws provided. Attach the fence to the Router base by passing the poles through the holes provided in the base and fix it in the required position. **NOTE: It is essential that the 2 straight fence locking knobs be locked TIGHTLY into the locked positions.** Make sure that each of the poles passes through both holes in the base otherwise there may be some movement that will cause the cut to not be exactly parallel with the reference edge.

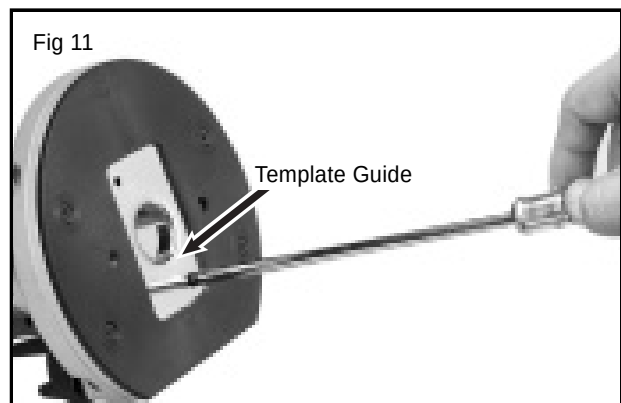
If the edge is too far away from the fence to reach whilst still keeping the poles retained in the base, or there is not a straight



edge or follow, a piece of wood or other straight material can be clamped alongside where the cut is to be made. The straight edge of the base can then be used to guide the Router instead of the fence.

■ TEMPLATE GUIDE (Fig 11)

The template guide can be fitted to the base of the Router to accurately duplicate curves and other complex shapes. These shapes can be easily made by using a jigsaw to cut out the



required designs. Fix the guide to the base of the Router by removing the two screws retaining the dust extraction duct, placing the guide in the recess provided in the base and replacing the screws. The dust extraction duct must be in place when fitting the guide to hold the screws.

The guide protrudes below the bottom of the base allowing the Router to follow the template.

A template must be securely fixed to the workpiece and a firm pressure applied to the Router at all times to ensure that the edge of the guide accurately follows the template. The template must be at least 5mm thick to allow for the protrusion of the guide. Allowance must also be made in the template for the distance between the cutting edge of the bit and the outside edge of the guide.

RYOBI TECHNOLOGIES AUSTRALIA PTY. LTD.

GUARANTEE



Subject to the guarantee condition below, this Ryobi tool (hereinafter called "the product") is guaranteed by Ryobi (hereinafter called "the Company") to be free from defects in material or workmanship for a period of 24 months from the date of original purchase covering both parts and labour. Under the terms of this guarantee, the repair or replacement of any part shall be the opinion of the Company or its authorised agent. Should service become necessary during the warranty period, the owner should contact the Authorised Ryobi Retailer from whom the Product was purchased, or the nearest Company Branch Office. In order to obtain guarantee service, the owner must present the sales docket and Guarantee Certificate to confirm date of purchase. This product is sold by the dealer or agent as principal and the dealer has no authority from the Company to give any additional guarantee on the Company's behalf except as herein contained or herein referred to.

Guarantee Conditions

This guarantee only applies provided that the Product has been used in accordance with the manufacturer's recommendations under normal use and reasonable care (in the opinion of the Company) and such

guarantee does not cover damage, malfunction or failure resulting from misuse, neglect, abuse, or used for a purpose for which it was not designed or is not suited and no repairs, alterations or modifications have been attempted by other than an Authorised Service Agent. This guarantee will not apply if the tool is damaged by accident or if repairs arise from normal wear and tear.

The Company accepts no additional liability pursuant to this guarantee for the costs of travelling or transportation of the Product or parts to and from the service dealer or agent - such costs are not included in this guarantee.

Certain legislation, including the Trade Practices Act, 1974 (as amended) and other state and territorial laws give rights to the buyer and impose liability on the seller in certain circumstances. Nothing herein shall have the effect of excluding, restricting or modifying any condition, guarantee, right or liability imposed, to the extent only that such exclusion, restriction or modification would render any term herein void.

RYOBI®

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Contact during normal business hours.

This Guarantee Form Should Be Retained By The Customer At All Times

For your record and to assist in establishing date of purchase (necessary for in-guarantee service) please keep your purchase docket and this form completed with the following particulars.

Purchased From _____

Address Of Dealer _____

Date _____ Model No _____ Serial No _____

Present This Form With Your Purchase Docket When Guarantee Service Is Required.