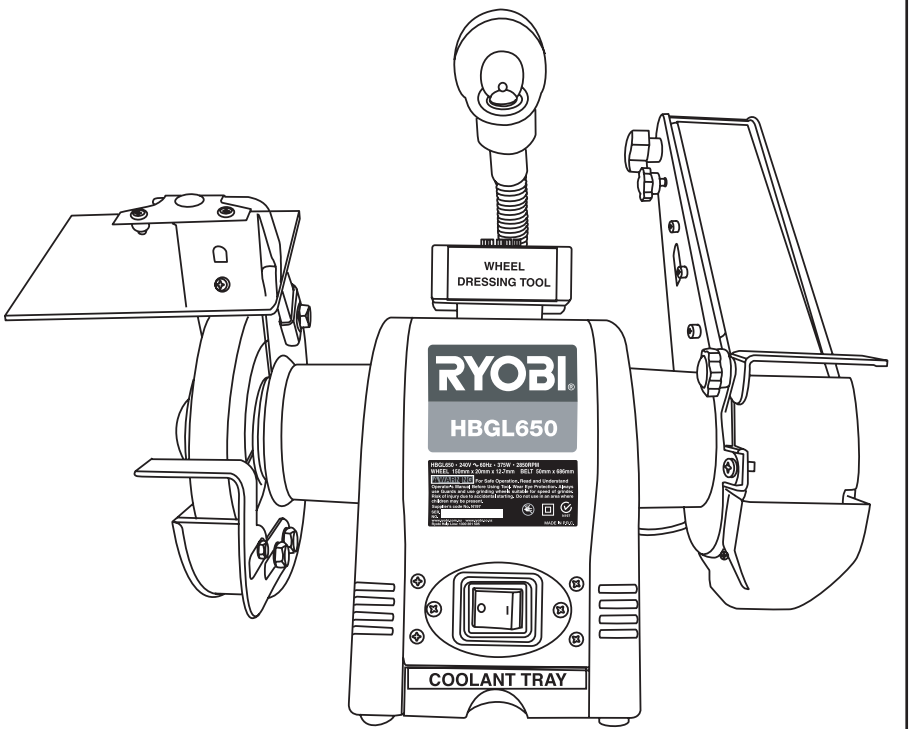
HBGL650

BENCH GRINDER LINISHER

OWNER'S OPERATION MANUAL



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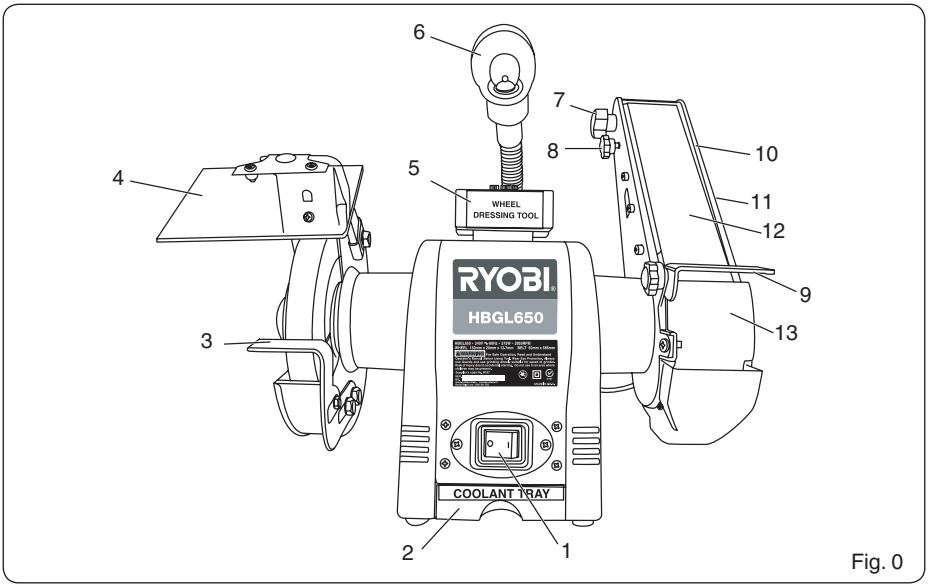


Fig. 0

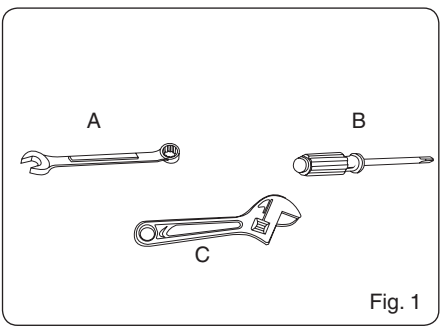
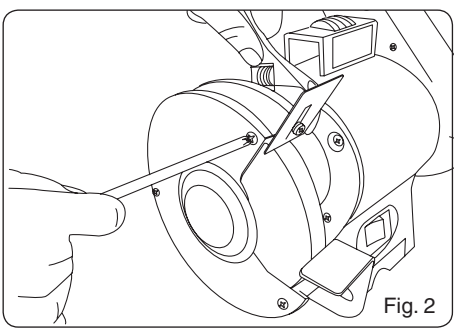


Fig. 1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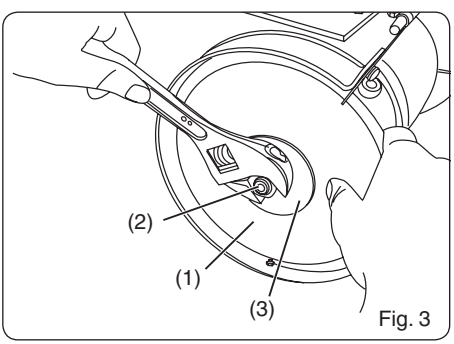

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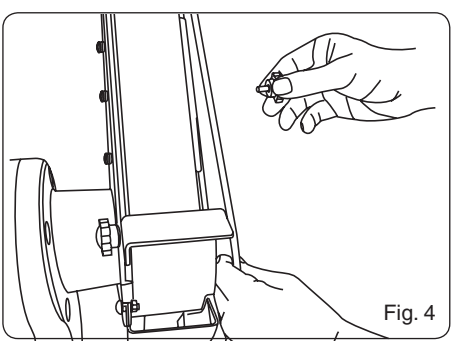
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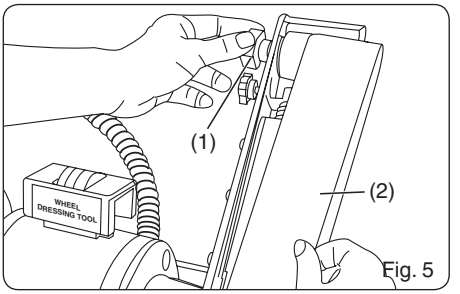

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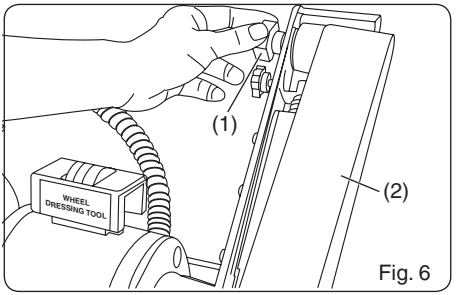

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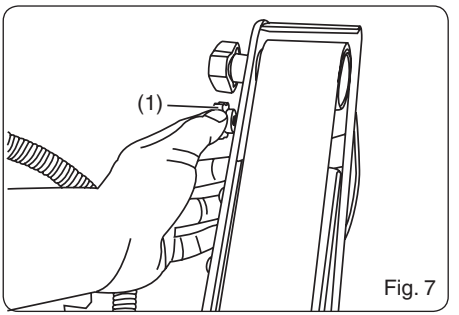

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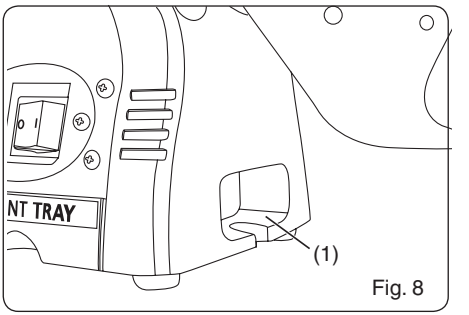

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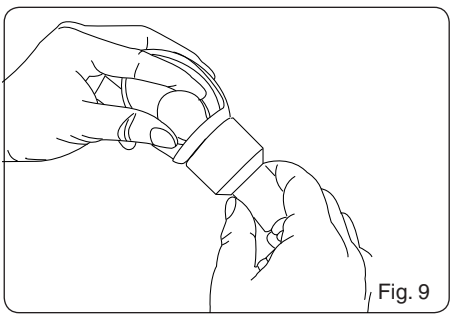
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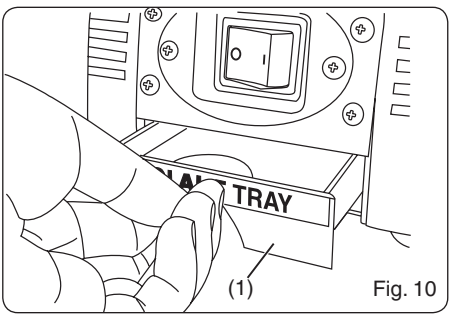

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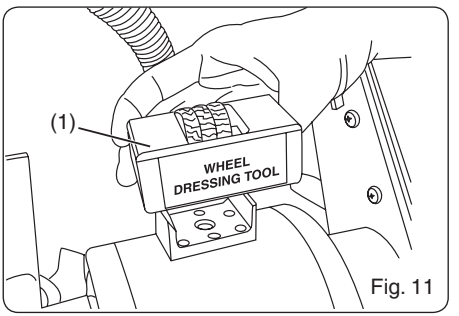

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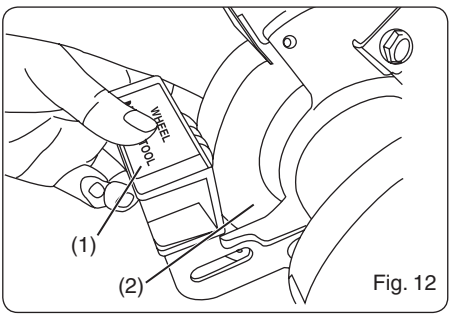

Fig. 12

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PRODUCT SPECIFICATIONS

	Wheel
Diameter	150 mm
Width	20 mm
Arbor Hole	12.7 mm
Belt size	50 x 686 mm
NO Load Speed	2850 RPM
Rating	240V ~ 50Hz only
Power	375W
Weight	10 kg

Look for this symbol to point out important safety precautions. It means attention!!! Your safety is involved.

RULES FOR SAFE OPERATION

Safe operation of this power tool requires that you read and understand this operator's manual and all labels affixed to the tool. Safety is a combination of common sense, staying alert, and knowing how your power tool works.

READ ALL INSTRUCTIONS

- **KNOW YOUR POWER TOOL**. Read the operator's manual carefully. Learn the applications and limitations as well as specific potential hazards related to this tool.
- **GUARD AGAINST ELECTRICAL SHOCK** by preventing body contact with grounded surfaces. For example:pipes, radiators, ranges, refrigerator enclosures.
- **KEEP GUARDS IN PLACE** and in working order. Never operate the tool with any guard or cover removed. Make sure all guards are operating properly before each use.
- **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see keys and adjusting wrenches are removed from tool before turning it on.
- **KEEP THE WORK AREA CLEAN.** Cluttered work areas and work benches invite accidents.
- **AVOID DANGEROUS ENVIRONMENTS.** Do not use power tools near gasoline or other flammable liquids, in damp or wet locations or expose them to rain. Keep work area well lighted.
- **KEEP CHILDREN AND VISITORS AWAY.** All visitors should wear safety glasses and be kept a safe distance from work area.
- **MAKE WORKSHOP CHILD PROOF** with padlocks, master switches, or by removing starter keys.
- **DON'T FORCE THE TOOL.** It will do the job better and safer at the rate for which it was designed.
- **USE THE RIGHT TOOL.** Do not force the tool or attachment to do a job for which it was not designed.
- **USE THE PROPER EXTENSION CORD.** Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating . A wire gauge size (A.W.G.) of at least 16 is recommended for an extension cord 8 metres or less in length. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.
- **INSPECT EXTENSION CORDS PERIODICALLY** and replace if damaged.

  WEAR PROPER APPAREL. Do not wear loose clothing, neckties, or jewelry that can get caught in the tool's moving parts and cause personal injury. Nonslip footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
- **ALWAYS WEAR SAFETY GLASSES WITH SIDE SHIELDS.** Everyday eyeglasses have only impact-resistant lenses; they are NOT safety glasses.
- **PROTECT YOUR LUNGS.** Wear a face or dust mask if the cutting operation is dusty.
- **PROTECT YOUR HEARING.** Wear hearing protection during extended periods of operation.
- **DON'T ABUSE CORD.** Never carry tool by the cord or yank it to disconnect from the power supply. Keep cord away from heat, oil, and sharp edges.
- **DO NOT OVERREACH.** Keep proper footing and balance at all times.
- **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Disconnect all tools when not in use, before servicing, or when changing attachments etc.
- **AVOID ACCIDENTAL STARTING.** Be sure switch is off when plugging in.
- **USE RECOMMENDED ACCESSORIES.** The use of improper accessories may cause risk of injury.
- **USE ONLY GRINDING WHEELS** that is rated greater than 2850 PRM.
- **DO NOT** use wheels with incorrect size bore. NEVER use wheel washers or wheel screws that are defective of incorrect and NEVER touch grinding wheel or other moving parts.
- **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the wheel is unintentionally contacted.
- **DIRECTION OF FEED.** Be aware of wheel rotation direction; never grind without the workrest being properly set. **NEVER** grind more than one workpiece at a time
- **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. A guard or other part that is damaged must be properly repaired or replaced by an authorised service centre to avoid risk of personal injury.

RULES FOR SAFE OPERATION

- **KEEP TOOL 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 solvents to clean tool.
- **INSPECT TOOL CORDS AND EXTENSION CORDS PERIODICALLY** and, if damaged, have repaired by a qualified service technician. Stay constantly aware of cord location and keep it well away from the rotating wheel.
- **NEVER USE IN AN EXPLOSIVE ATMOSPHERE.** Normal sparking of the motor or sparking from grinding metal could ignite fumes.
- **USE OUTDOOR EXTENSION CORDS.** Use only extension cords with approved ground connection that are intended for use outdoors and so marked.

⚠ WARNING:
When servicing use only identical Ryobi replacement parts. Use of any other parts may create a hazard or cause product damage.

- **USE ONLY FLANGES** furnished with this bench grinder linisher. **IF ANY PART OF THIS GRINDER LINISHER IS MISSING** or should break, bend, or fail in any way, or should any electrical component fail to perform properly, shut off the power switch, remove the machine plug from the power source and have damaged, missing, or failed parts replaced before resuming operation.
- **MAKE SURE THE GRINDER LINISHER IS SECURELY MOUNTED** as described in the operating instructions before connecting the tool to a power supply.
- **DO NOT OVERTIGHTEN THE WHEEL NUT.** Excessive tightening can cause the wheel to crack during operation.
- **INSPECT GRINDING WHEEL** for visible defects. Check the wheel for fissures and cracks, and test for normal operation prior to use.
- **ADJUST** distance between wheel and work rest to maintain 1.6mm. or less separation as the diameter of the wheel decreases with use. The value of separation used in the marking is to be the separation recommended by the manufacturer but shall not be more than 3.2mm.
- **ALWAYS EASE THE WORKPIECE AGAINST THE ABRASIVE WHEEL** when starting to grind. A harsh impact can break the wheel. Use light pressure when starting to grind; too much pressure on a cold wheel can cause the wheel to crack.
- **NEVER START THE GRINDER LINISHER** when the wheel is in contact with the workpiece.
- **SECURE WORK.** Always hold workpiece firmly against the work rest.
- **DO NOT USE THE BENCH GRINDER LINISHER** if the flange nut or clamp nut is missing or if the spindle shaft is bent.
- **FREQUENTLY** clean grinding dust from beneath grinder.
- **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.
- **SAVE THESE INSTRUCTIONS.** Refer to them frequently and use them to instruct other users. If you loan someone this tool, loan them these instructions also.

⚠ WARNING:
Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals know to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
. lead from lead-based paints.
. crystalline silica from bricks and cement and other masonry products.
. arsenic and chromium from chemically-treated timber.
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, such as those dust masks that are specially designed to filter out microscopic particles.

RULES FOR SAFE OPERATION

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

SYMBOL	MEANING
⚠	**SAFETY ALERT SYMBOL:** Indicates danger, warning, or caution. May be used in conjunction with other symbols or pictographs.
⚠	**DANGER:** Failure to obey a safety warning will result in serious injury to yourself to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.
⚠	**WARNING:** Failure to obey a safety warning may result in property damage or personal injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.
⚠	**CAUTION:** Failure to obey a safety warning may result in property damage or personal injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.
NOTE:	Advises you of information or instructions vital to the operation or maintenance of the equipment.

IMPORTANT

Servicing requires extreme care and knowledge and should be performed only by a qualified service technician. For service we suggest you return the tool to your nearest **RYOBI AUTHORISED SERVICE CENTRE** for repair. When servicing,use only identical Ryobi replacement parts.

⚠ WARNING:

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

⚠ WARNING:

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.

TOOLS NEEDED (NOT INCLUDED)

The following tools are needed for assembly and alignment:

A: 7mm, 10mm, and 12mm COMBINATION WRENCH
B: PHILLIPS SCREWDRIVER
C: ADJUSTABLE WRENCH

LOOSE PART LIST

1. On/ Off Switch
2. Coolant Tray
3. Work Rest
4. Flat Eyeshield
5. Wheel Dressing Tool
6. 12V Light
7. Belt Tensioning Lock Knob
8. Belt Tracking Knob
9. Work rest
10. Guard Cover
11. Guard Cover knob
12. Sanding Belt
13. Safety Guard

FEATURES

KNOW YOUR BENCH GRINDER LINISHER

See Figure. 0

- Before attempting to use your new tool, familiarise yourself with all operating features and safety requirements.Carefully read this operator's manual before using your grinder.

POWER SWITCH (1)

- Your Bench Grinder linisher features an easy access On/Off switch for convenience and safety.

MOTOR

- Powered by a precision-built electric induction motor, your linisher has sufficient power to handle tough grinding jobs.

GRINDING WHEEL

- Equipped with coarse and fine grinding wheels to suit most applications.

NOTE:New wheels sometimes require dressing to true up the face of the wheel.

COOLANT TRAY (2)

- When grinding, metal objects become heated quickly. It is important to keep moving the object back and forth across the grinding wheel and to cool the object frequently using the grinder's Coolant Tray.

WORK REST(3)

- The work rests are independently adjustable to compensate for wheel wear. Before grinding, make certain the work rests are adjusted properly. Generally the object being ground is done slightly above centre of the grinding wheel.
- Adjust the distance between the wheel and the work rest to maintain 1.6mm. or less separation as the diameter of the wheel decreases with use.

SAFETY EYE SHIELD (4)

- The safety shield is adjustable for operator convenience. Operating the grinder without these features attached could result in serious injury. Do not grind with the safety shield raised ; always wear safety glasses for personal protection.

WHEEL DRESSING TOOL (5)

- A buildup of metals, dirt, rust, etc. will become embedded in the grinding wheel as it wears.
- Using the Wheel Dressing Tool to clean the wheel of these ground-in particles will help improve the grinder's performance.

AUTO-ON WORKLIGHT (6)

- Your Bench Grinder linisher comes equipped with a permanently mounted worklight that automatically lights the work area for safer, more accurate grinding and sharpening.

ASSEMBLY

- Fix tool rests with screws and washers supplied. Keep tool rests Perpendicular to grinding wheel and sanding assembly.
- Assemble eyeshield and spark deflector by using bolts, washers and knurled nuts supplied loose.
- Install eyeshield assembly to wheel guard.
- Remove top wheel cover bolt. washer and nut and insert spark deflector. Replace bolt, washer and nut. Adjust to desired working position and tighten firmly.

NOTE: The height and angle of the eyeshield can be adjusted up and down to the user's requirement.

OPERATION

EYESHIELD ADJUSTMENT

- The Opti-View eyeshield allows users to see operation more clearly and precisely. Eyeshield can be adjusted up and down.

TOOL REST ADJUSTMENT

- Tool rests are adjustable to maintain the correct distance from grinding wheel of 1.6mm.
- WARNING: Before every use, carefully inspect the grinding wheel for any cracks or chips and if any defects are found, immediately replace the grinding wheel with a new Ryobi grinding wheel. You should be aware a defective grinding wheel can and do explode causing serious injury.

CHANGING THE GRINDING WHEEL

To replace worn grinding wheel, the necessary steps are listed below:

- Disconnect the power supply.
- Remove the three screws and nuts holding the outside wheel guard (1). (Fig. 2)
- Hold grinding wheel (1) firmly. Remove the nut (2) and flange (3) on the shaft by using proper tool.(Fig. 3)
- Take off used wheel and replace with a new one.
- Assemble the flange, nut and outside cover in reverse order. To ensure good balance, make sure the surface between the grinding wheel and the flanges are smooth.
- Secure the three screws and nuts holding the outside wheel guard.
- Stand to the side of the machine. Switch on the machine and let it run at full speed with no load for one minute to check the wheel before using it under load.

Note: Never sharpen or grind anything made of aluminium, brass or copper.

CHANGING THE SANDING BELT

- To replace worn sanding belt, remove guard cover (Fig. 4)
- Turn the belt Tensioning Lock Knob (1) anticlockwise which will loosen the tension on the belt enabling removal of worn sanding belt (2). (Fig. 5)
- Insert new sanding belt (2) on belt drive ensuring the direction of rotation printed on the belt is pointing in the correct upward position at the rear side and turn the belt tensioning lock knob (1) clockwise to tighten and adjust sanding belt.(Fig. 6)

TRACKING THE BELT

- Ensure the belt is positioned on the centre of the two rollers, turning the Belt Tracking Knob (1) in a clockwise direction will move the belt to the left, turning the Belt Tracking Knob (1) in an anticlockwise direction will move the belt to the right. (Fig.7)

NOTE: Extreme caution should be taken not to let hands in contact with the belt when Bench Grinder Linisher is in operation. With the guard removed, switch on the Bench Grinder Linisher and adjust the Belt Tracking Knob (1) until the belt is positioned on the centre of the two rollers, and reattach the guard (Fig. 7).

NOTE: After initial use the belt may stretch and re-adjustment of the belt will be required.

OPERATION

BENCH ATTACHMENT

- Fasten Grinder Linisher to work bench before operating this machine. There is a hole (1) on either side of the base which should be used to secure the grinder. (Fig. 8)
- 2 x 10mm diameter bolts should be used to secure the Grinder Linisher to the bench or stand.

AUTO ON LIGHT

- Your Ryobi Bench Grinder Linisher comes complete with and Auto On Adjustable light which allows you to illuminate the workpiece when operating in poorly lit.
- The light will automatically come on when the Grinder Linisher is switched on. When Grinder Linisher is not in use, switch off the tool to avoid overheating of the lamp.

WORKLIGHT BULB REPLACEMENT

- When the light bulb is worn out and will no longer work, unfasten the screws which fix the lamp cover, then gently remove the bulb from the holder by pushing in and turning anticlockwise. Contact your dealer for replacement part. To replace, gently push the light bulb into the insert and turn clockwise, then fix the lamp cover in reverse order.

⚠ **WARNING:** Do not use force as this could lead to the bulb breaking and serious injury.

COOLANT TRAY

- The in-built coolant storage dip tray (1) allows you to cool overheated workpieces. Simply pull out the tray and half fill with appropriate coolant, such as water. (fig. 10)

⚠ **WARNING:** Do not overfill the coolant tray

WHEEL DRESSING TOOL

- After extensive use, the grinding wheel will accumulate in-ground metal build up. To clean the wheel detach the Wheel Dressing Tool (1) from the storage holder. (Fig. 11)
- Rest the Wheel Dressing Tool on the tool rest approx. 5mm from the grinding wheel.
- Switch on the Grinder Linisher and wait a few seconds until the grinding wheel reaches full speed then slowly move the Dressing Tool (1) to gently touch against the grinding wheel (2)holding firmly with two fingers. Do not use excessive pressure. (Fig. 12)

⚠ **CAUTION:** Do not allow the grinding wheel and Dressing Tool to touch before the grinding wheel has reached full speed as this may cause the Dressing tool to be flicked from your grasp causing serious injury.

MAINTENANCE

WARNING:

When servicing, use only identical Ryobi replacement parts. Use of any other part may create a hazard of cause product damage.

GENERAL

- Keep the bench grinder linisher clean. Remove dust from working parts and beneath the grinder frequently.
- Make sure the bench grinder linisher operates properly. Check screws, nuts, and bolts for tightness.

EXTENSION CORDS

- The use of any extension cord will cause some loss of power. To keep the loss to a minimum and to prevent tool overheating, use an extension cord that is heavy enough to carry the current the tool will draw.
- A wire gauge size (A.W.G.) of at least 16 is recommended for an extension cord 8 metres or less in length. When working outdoors, use an extension cord that is suitable for outdoor use. The cord's jacket will be marked WA.

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.

WHEEL DRESSING TOOL

- Dressing a wheel is done to renew sharpness or to true up the face of the wheel. Set the work rest of the bench grinder at a slight angle and brace the wheel dressing tool against it. Do not make contact with the grinding wheel until after you have turned on the motor and the wheel is rotating at full speed. Press the dressing tool slightly against the rotating wheel until you get a bite, then move slowly from side to side across the wheel. A small bite and many passes is better than a big bite and one pass. Work cautiously, hold the dresser with force on the work rest. Do not use excessive pressure against the grinding wheel. Proceed slowly until you master the technique.

WARNING:

Do not use excess force as this could lead to the grinding wheel breaking and serious injury.

TROUBLESHOOTING

This section covers the most common problems encountered during operation and what to do about them. Do not make any adjustments until machine is unplugged and moving parts have come to a complete stop.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Motor will not start	1, Low voltage. 2, Open circuit in motor or loose connections.	1, Check power line for proper voltage. 2, Inspect all lead connections on motor for loose or open connections.
Motor will not start; fuses or circuit breakers blow	1, Short circuit in line cord or plug 2, Short circuit in motor or loose connections. 3, Incorrect fuses or circuit breakers in power line.	1, Inspect cord or plug for damaged insulation and shorted wires. 2, Inspect all connections on motor for loose or shorted terminals or worn insulation. 3, Install correct fuses or circuit breakers.
Motor overheats.	1, Motor overloaded.	1, Reduce load on motor
Motor stalls (resulting in blown fuses or tripped circuit)	1, Short circuit in motor or loose connections 2, Low voltage. 3, Incorrect fuses or circuit breakers in power line. 4, Motor overloaded.	1, Inspect connections on motor for loose or shorted terminals or worn insulation 2, Correct the low voltage conditions. 3, Install correct fuses or circuit breakers. 4. Reduce load on motor.
Machine slows when operating	1, Depth of cut too great.	1, Slow down the rate of movement of the workpiece into wheel.
Wavy condition on surface of workpiece.	1, Machine vibrating 2, Workpiece not being held firmly. 3, Wheel face uneven. 4, Wheel is too hard.	1, Make sure machines is securely mounted on a solid surface. 2, Use a holding device to firmly retain the workpiece. 3, Dress the grinding wheel. 4. Use softer wheel, or reduce the feed rate.
Lines on surface of workpiece.	1, Impurity on wheel surface. 2, Workpiece not being held tightly.	1, Dress the grinding wheel. 2. Use a holding device to firmly retain the workpiece.
Burning spots or cracks in the workpiece.	1, Improper type of grinding wheel 2, Improper feed rate. 3, Coolant required.	1, Try a wheel which is softer style or a coarser grit. 2, Slow down the rate of movement of the workpiece into wheel. 3, Introduce coolant by hand.
Wheel dulls quickly, grit falls off.	1, Depth of cut too great. 2, Wheel is soft. 3, Wheel diameter too small. 4, Bad wheel dress. 5, Defective wheel bonding.	1, Slow down the rate of movement of the workpiece into wheel. 2, Wheel too soft for the material being ground, select harder bond. 3, Replace the wheel. 4, Dress the wheel. 5, Consult manufacturer of grinding wheel.
Wheel clogs and workpiece shows burn marks	1, Wheel is too hard. 2, Feed rate too slow. 3, Bad wheel dress. 4. Coolant required.	1, Wheel too hard for the material being ground, select softer bond. 2, Increase the rate of movement of the workpiece into wheel. 3, Dress the wheel. 4, Introduce coolant by hand

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 RYOBI HELPLINE 1300 361 505 or contact the retailer from whom the product was purchased.

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.

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HOBART: All enquiries Tel : 1300 361 505

ADELAIDE: All enquiries Tel : 1300 361 505

PERTH: 33-35 Sorbonne Cres. Canning Vale, W.A. 6155 Tel : (08) 9455 7775

RYOBI NEW ZEALAND PTY. LTD.

AUCKLAND: 27 Clemow Drive, Mt Wellington, N.Z.

Tel: (09) 573 0230 - Free Call: 0800 279 624 - Fax: (09) 573 0231 - www.ryobi.co.nz

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.

Address Of Dealer _____

Date _____ Model No _____ Serial No _____

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