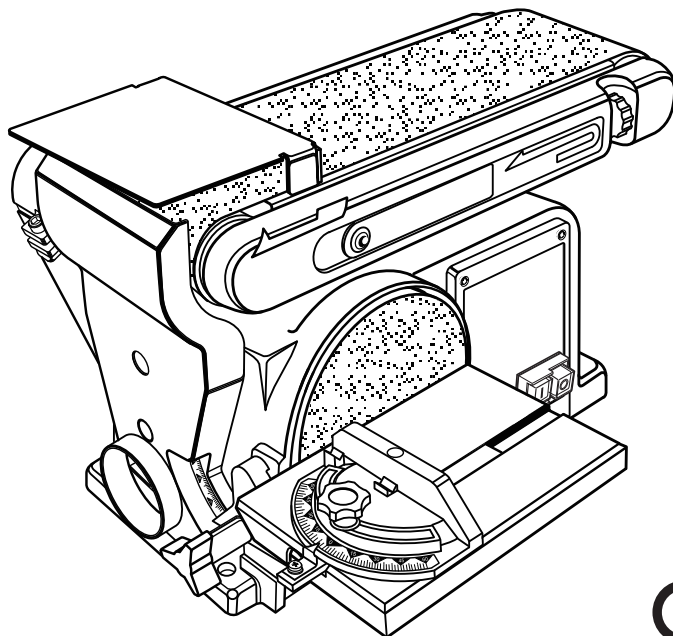


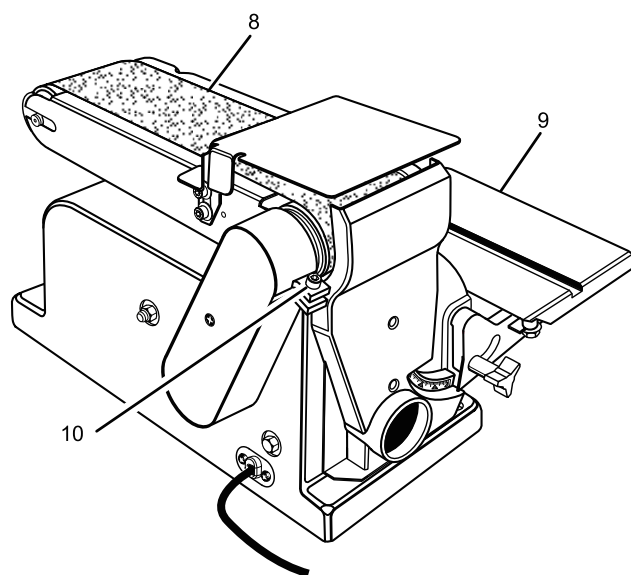
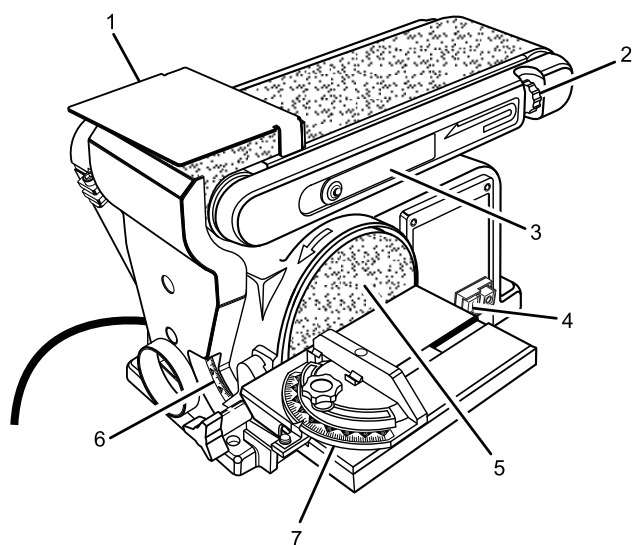
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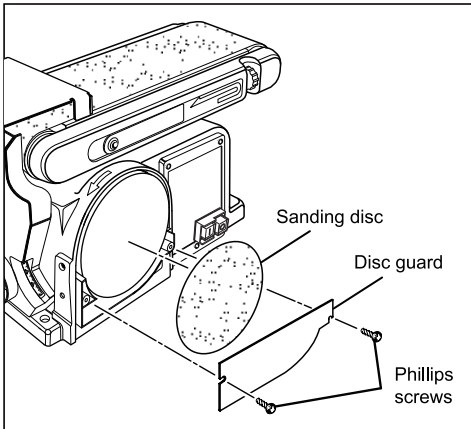
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GB OWNER'S OPERATING MANUAL

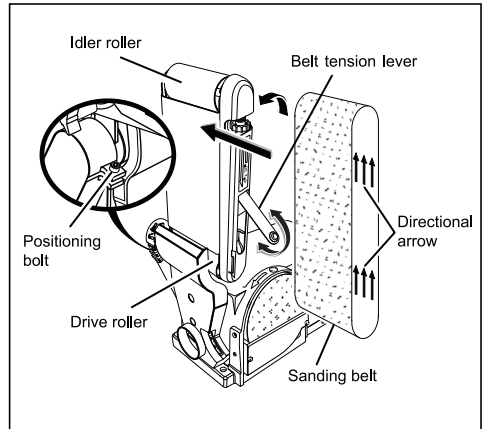


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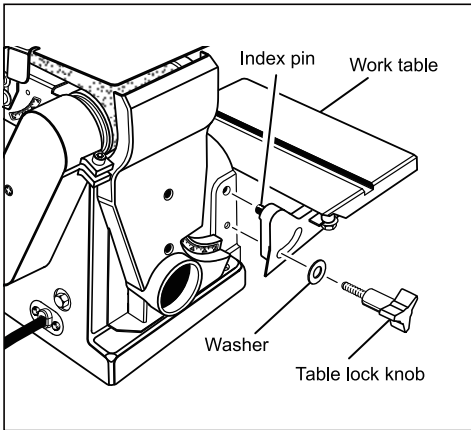




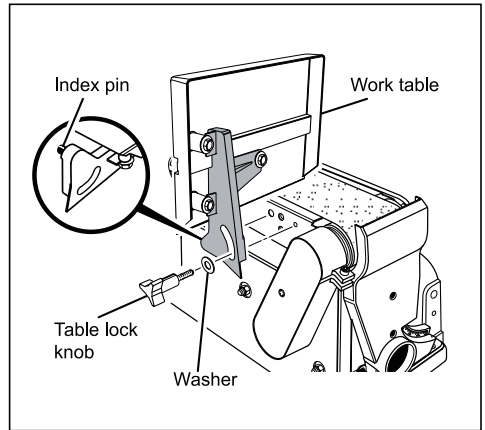
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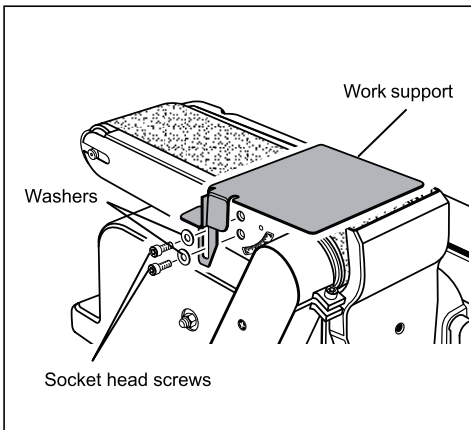
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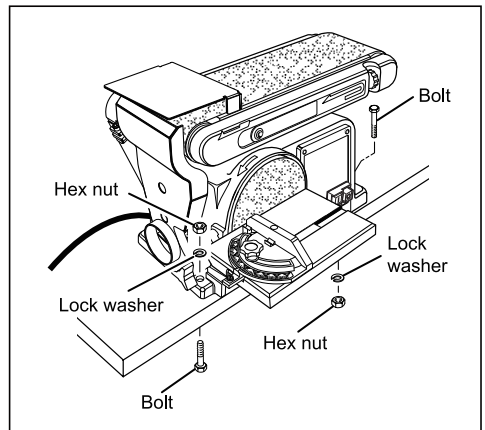
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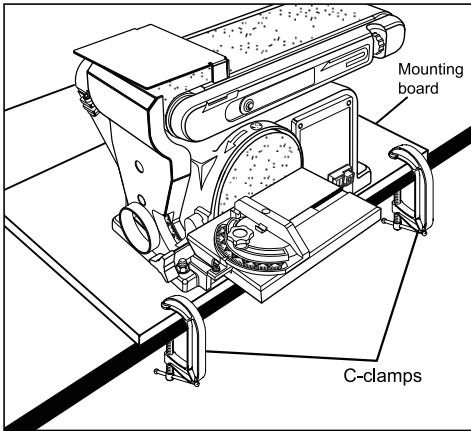
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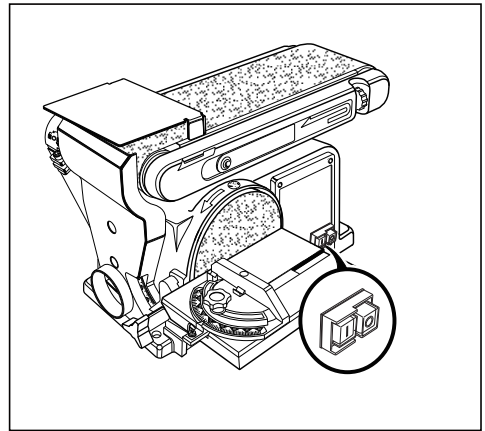
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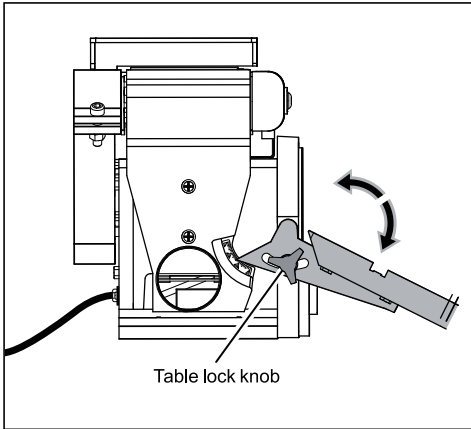
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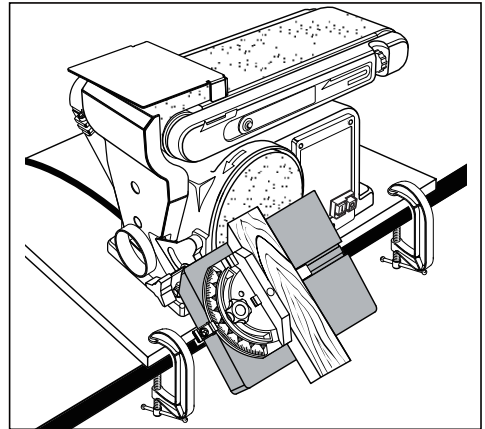
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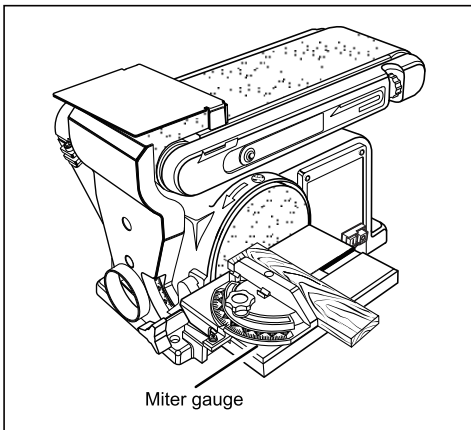
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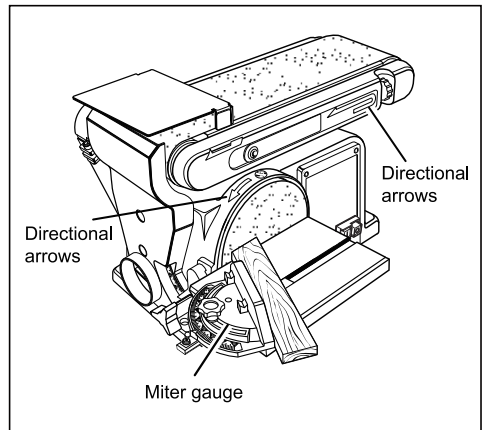
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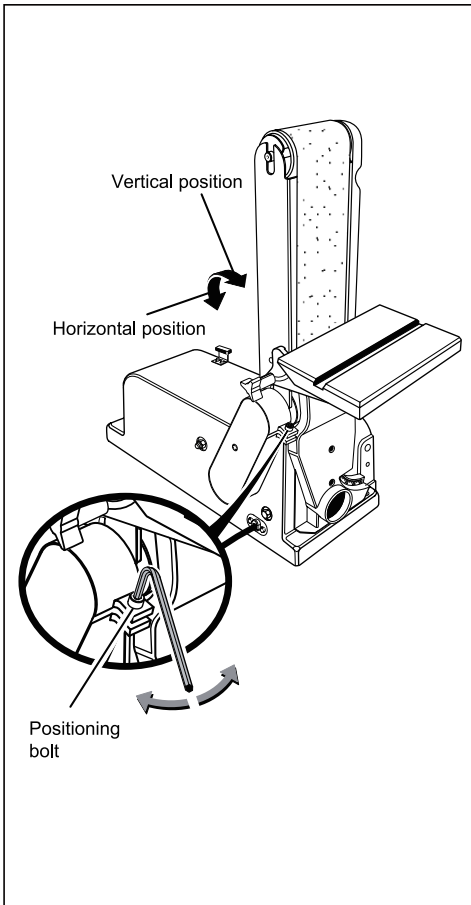
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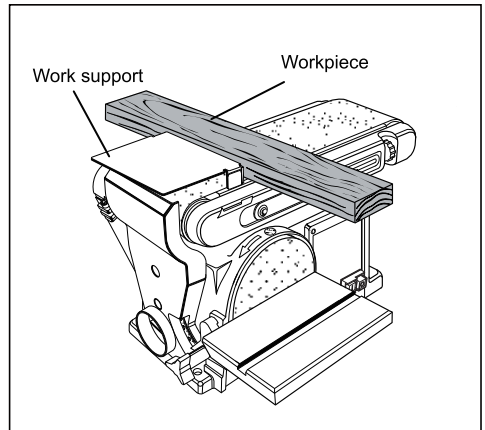
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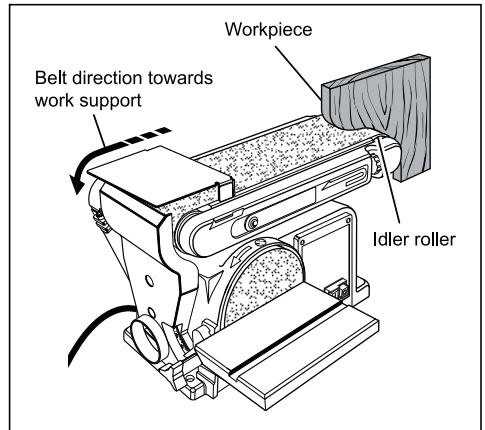
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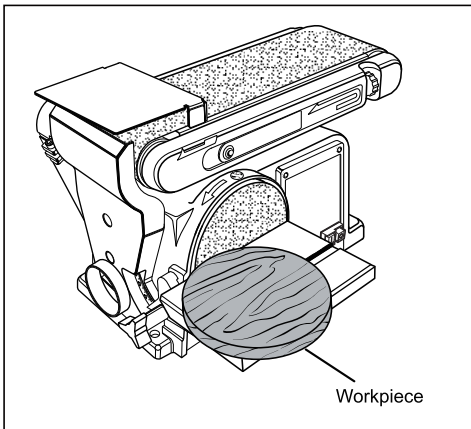
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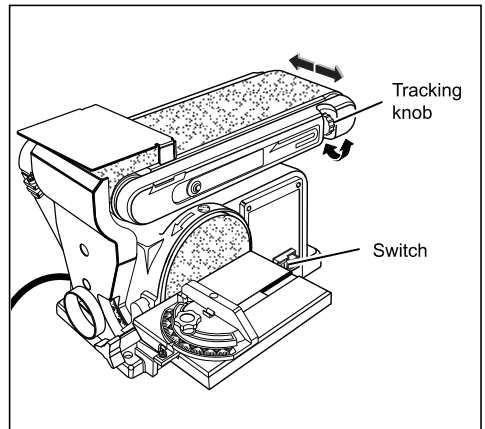
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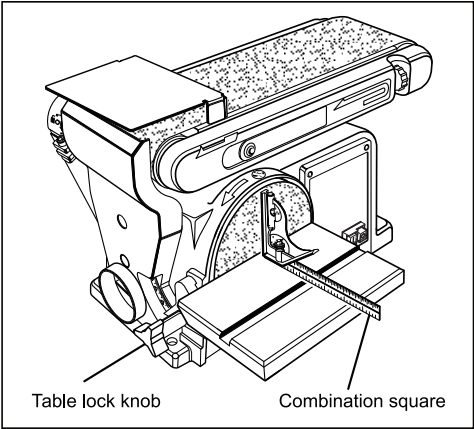
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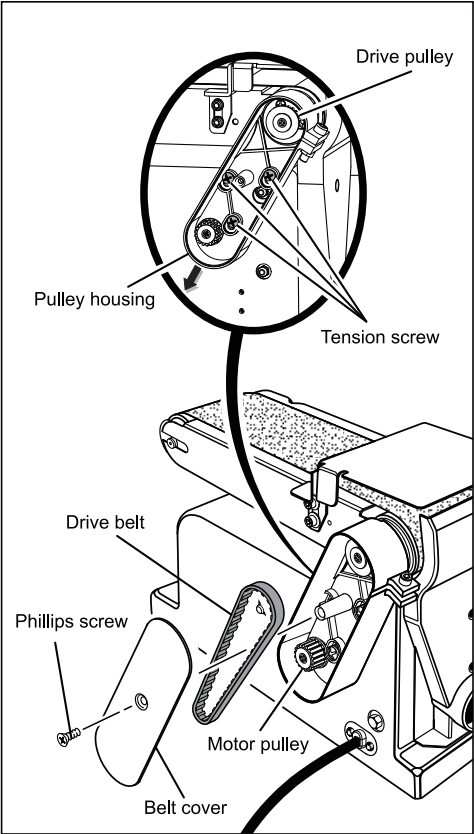
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THANK YOU FOR BUYING A RYOBI PRODUCT.

To ensure your safety and satisfaction, carefully read through this OWNER'S MANUAL before using the product.

General Safety Rules

WARNING! Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE INSTRUCTIONS

1) Work area

- a) **Keep work area clean and well lit.** Cluttered and 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 adapter 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.

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 safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

- c) **Avoid accidental starting. Ensure the switch is in the off-position before plugging in.** Carrying power tools with your finger on the switch or plugging in 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 these devices 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 cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source 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.

INSTRUCTIONS FOR SAFE HANDLING

1. Make sure that the tool is only connected to the voltage marked on the name plate.
2. Never use the tool if its cover or any bolts are missing. If the cover or bolts have been removed, replace them prior to use. Maintain all parts in good working order.
3. Always secure tools when working in elevated positions.
4. Never touch the blade, drill bit, grinding wheel or other moving parts during use.
5. Never start a tool when its rotating component is in contact with the workpiece.
6. Never lay a tool down before its moving parts have come to a complete stop.
7. **ACCESSORIES:** The use of accessories or attachments other than those recommended in these instructions might present a hazard.
8. **REPLACEMENT PARTS:** When servicing use only identical replacement parts.

SPECIFIC SAFETY RULES FOR BELT DISC SANDER

1. **FIRMLY CLAMP OR BOLT** your tool to a workbench or table at approximately hip height.
2. **NEVER** stand or have any part of your body in line with the path of the workpiece.
3. **PLAN YOUR WORK TO REDUCE THE RISK OF THROWBACKS** (when the workpiece catches the sanding drum and is torn from your hands).
4. **MAKE SURE THERE'S NO DEBRIS** between the workpiece and its supports.
5. **WHEN SANDING IRREGULARLY SHAPED WORKPIECES**, plan your work support so it will not slip and be pulled from your hands.
6. **USE EXTRA CAUTION WITH LARGE**, very small or awkward workpieces.
7. **NEVER USE THIS TOOL** to finish pieces too small to hold by hand.
8. **USE EXTRA SUPPORTS (TABLES, SAW HORSES, BLOCKS, ETC.)** for any workpieces large enough to tip when not secured to the work surface.
9. **NEVER** sand more than one piece at a time. **DO NOT STACK** more than one workpiece on the sander table at a time.
10. **ALWAYS FEED WORKPIECE FROM LEFT TO RIGHT** against the direction the drum sleeve is rotating.
11. **DO NOT USE DRUMS**, sanding sleeves or belts which show visual signs of wear such as grooves, tears or rips.
12. **ALWAYS STAY ALERT!** Do not allow familiarity (gained from frequent use of your sander) to cause a careless mistake. **ALWAYS REMEMBER** that a careless fraction of a second is sufficient to inflict severe injury.

13. **MAKE SURE THE WORK AREA HAS AMPLE LIGHTING** to see the work and that no obstructions will interfere with safe operation **BEFORE** performing any work using your tool.
14. **ALWAYS TURN OFF THE SANDER** before disconnecting it to avoid accidental starting when reconnecting to power supply. **NEVER** leave the tool unattended while connected to a power source.
15. **SUPPORT WORKPIECE** with miter gauge, work rest, or worktable.
16. **MAINTAIN 1.6mm.** clearance between worktable and sanding belt or disc.
17. **AVOID KICKBACK** by sanding in accordance with directional arrows.
18. **IF THE POWER SUPPLY CORD IS DAMAGED**, it must be replaced only by the manufacturer or by an authorized service center to avoid risk.
19. **THIS TOOL** should have the following markings:
 - a) Wear eye protection.
 - b) Support workpiece with miter gauge, backstop (work support), or worktable.
 - c) Maintain 1.6mm. maximum clearance between work table and sanding belt or disc.
 - d) Do not perform any operation freehand.
 - e) Avoid kickback by sanding in accordance with directional arrows.
20. **SAVE THESE INSTRUCTIONS.** Refer to them frequently and use them to instruct others who may use this tool. If you loan someone this tool, loan them these instructions also.

DESCRIPTION

1. Work support
2. Tracking knob
3. Belt tension lever
4. Switch and switch key
5. Sanding disc
6. Bevel scale
7. Miter gauge
8. Sanding belt
9. Work table
10. Positioning bolt

SPECIFICATIONS

Voltage	230V ~ 50 Hz
Power input	370W
Belt size	100mm x 914mm
Belt speed	7.5m/s
Belt tilt	0 - 90°
Disc size	Ø150mm
Disc speed	2850 min ⁻¹
Table size	225mm x 158mm
Table tilt	0 - 45°
Net weight	18.5 kg

ASSEMBLY

WARNING!

Do not attempt to modify this product or create accessories not recommended for use with this tool. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

WARNING!

Do not connect to power supply until assembly is complete. Failure to comply could result in accidental starting and possible serious personal injury.

INSTALLING SANDING DISC AND DISC GUARD (Fig. 1)

- Remove the backing from the sanding disc.
- Align perimeter of sanding disc with plate and press firmly into position.
- Position disc guard against the lower one-third of the disc aligning holes.
- Using the two phillips head screws, securely tighten the disc guard in place.

INSTALLING/REPLACING SANDING BELT (Fig. 2)

On the smooth side of the sanding belt, there is a directional arrow. The sanding belt must run in the direction of the arrow.

- Using the hex key provided, loosen the positioning bolt by turning the bolt counterclockwise.
- Move the sanding belt into a vertical position.
- Lock the sanding belt by retightening the positioning bolt.
- Pull the belt tension lever toward you to release the belt tension.
- Place the sanding belt over the drive roller and idler roller with the directional arrows running counterclockwise. Be sure the sanding belt is centered on both drums.
- Push the belt tension lever back into place to apply the belt tension.

NOTE: The belt tension lever is spring loaded; use extreme caution when pushing the tension lever back into place to avoid personal injury.

MOUNTING THE WORK TABLE FOR USE WITH THE DISC SANDER (Fig. 3)

- Insert the work table index pin into the hole in the tool's housing.
- Position a washer over the table lock knob then tighten the table lock knob securely.

MOUNTING THE WORK TABLE FOR USE WITH THE BELT SANDER (Fig. 4)

- Insert the work table index pin into the hole in the sanding belt arm.
- Position a washer over the table lock knob then tighten the table lock knob securely.

ASSEMBLING WORK SUPPORT (Fig. 5)

- Place the work support over the holes in the side of the sanding belt arm.
- Using a hex key, fasten in place with washers and socket head screws.

MOUNTING BELT/DISC SANDER TO WORKBENCH (Fig. 6)

If the belt/disc sander is to be used in a permanent location, it is recommended you secure it to a workbench or other stable surface. When mounting the belt/disc sander to a workbench, holes should be drilled through the supporting surface of the workbench.

- Mark holes on workbench where belt/disc sander is to be mounted using holes in the base as a template for hole pattern.
- Drill holes through workbench.
- Place belt/disc sander on workbench aligning holes in the base with holes drilled in the workbench.
- Insert bolts (not included) and tighten securely with lock washers and hex nuts (not included).

CLAMPING BELT/DISC SANDER TO WORKBENCH (Fig. 7)

If the belt/disc sander is to be used as a portable tool, it is recommended you fasten it permanently to a mounting board that can easily be clamped to a workbench or other stable surface. The mounting board should be of sufficient size to avoid tipping while belt/disc sander is in use. Any good grade plywood or chipboard with a 3/4 in. thickness is recommended.

- Mark holes on board where belt/disc sander is to be mounted using holes in the base as a template for hole pattern.
- Follow the last three steps in section Mounting Belt/Disc Sander to Workbench.

If lag bolts are used, make sure they are long enough to go through holes in belt/disc sander base and material the belt/disc sander is being mounted to. If machine bolts are used, make sure bolts are long enough to go through holes in belt/disc sander, the material being mounted to, and the lock washers and hex nuts.

OPERATION

WARNING!

Do not allow familiarity with tools to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.

WARNING!

Do not reach across the sanding disc to turn the belt/disc sander ON or OFF. Contact with the sanding disc can result in serious personal injury.

ON/OFF SWITCH (Fig. 8)

Switching On

- To start the operation, press the green I-push button.

Switching Off

- Press the red O-push button.

WARNING!

ALWAYS make sure your workpiece is not in contact with the belt before operating the switch to start the tool. Failure to heed this warning may cause the workpiece to be kicked back toward the operator and result in serious personal injury.

WARNING!

To reduce the risk of accidental starting, ALWAYS make sure the switch is in the OFF position before plugging tool into the power source.

BEVEL SANDING (Fig. 9-10)

The worktable can be tilted from 0° to 45° for bevel sanding. For angles 30° and above, position sander to the edge of the work bench and mount sander in place as shown in Fig. 6 and Fig. 7.

To tilt the worktable:

- Loosen the table lock knob by turning it counterclockwise.
- Set worktable to desired angle.
- Tighten the table lock knob by turning it clockwise.

BEVEL SANDING (Fig. 11-12)

A miter gauge is included with the tool for increased accuracy. Use of a miter gauge is recommended for sanding small end surfaces on the sanding disc.

NOTE: Always move the workpiece across the sanding disc from the left side toward the center.

HORIZONTAL AND VERTICAL SANDING (Fig. 13)

The belt/disc sander can sand both vertically and horizontally. Depending on the workpiece, use the work support for horizontal sanding operations and use the work table for vertical sanding operations.

- Using the hex key provided, loosen the positioning bolt by turning the bolt counterclockwise.
- Move the sanding belt into a vertical position.
- Lock the sanding belt by retightening the positioning bolt.

NOTE: Sand long workpieces with the sanding belt in the vertical position by moving the work evenly across the sanding belt.

WARNING!

ALWAYS use the work support for horizontal sanding and use the work table for vertical sanding. Using the sander without also using the work support or work table may expose the operator to pinch points and could result in serious personal injury.

SURFACE SANDING ON THE SANDING BELT (Fig. 14)

- Hold the workpiece firmly, keeping fingers away from the sanding belt.
- Keep the end pressed firmly against the work support moving work evenly across the sanding belt.

NOTE: Use extra caution when sanding very thin pieces. When sanding extra long pieces, move the work piece across the belt while applying only enough pressure to allow the sanding belt to remove the material.

SANDING CURVED PIECES**WARNING!**

Never attempt to sand the end pieces of a workpiece on the idler drum. Applying the end of the workpiece on the idler drum could cause the workpiece to fly up. Failure to heed this warning could result in serious personal injury.

Sanding inside curves on the sanding belt (Fig. 15):

Always sand inside curves on the idler drum.

- Hold the workpiece firmly, keeping fingers away from the sanding belt.
- Keep the curve pressed firmly against the idler drum moving work evenly across the sanding belt.

NOTE: Use extra caution when sanding very thin pieces and apply only enough pressure to allow the sanding belt to remove the material.

Sanding outside curves on the sanding disc (Fig. 16):

Always sand outside curves using the sanding disc and moving the workpiece from the left side of center.

- Hold the workpiece firmly, keeping fingers away from the sanding disc.
- Keep the curve pressed firmly against the sanding disc moving work evenly on the left side of the sanding disc.

NOTE: Always move the workpiece across the sanding disc from the left side toward the center.

ADJUSTMENTS**WARNING!**

Before performing any adjustment, make sure the tool is unplugged from the power supply and the switch is in the OFF (O) position. Failure to heed this warning could result in serious personal injury.

ADJUSTING THE BELT TRACKING (Fig. 17)

- Plug in belt/disc sander.

To check belt tracking:

- Turn the switch ON and then immediately turn it OFF. If the belt tends to slide off the idler drum or drive drum, the belt is not tracking properly.

To adjust belt tracking:

- If the sanding belt moves toward the disc, turn the tracking knob up 1/4 turn.
- If the sanding belt moves away from the disc, turn the tracking knob down 1/4 turn.
- Turn the switch ON and then immediately OFF again, noting belt movement. Readjust tracking knob if necessary.

SQUARING THE WORKTABLE TO THE SANDING DISC (Fig. 18)

- Unplug the belt/disc sander.
- Using a combination square, check the angle of the worktable with the sanding belt.
- If the work table is not 90° with the disc, loosen the table lock knob and tilt the table.
- Adjust work table square to the sanding disc and retighten the table lock knob.

MAINTENANCE

WARNING!

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

WARNING!

Always wear eye protection with side shields during product operation. If operation is dusty, also wear a dust mask.

WARNING!

Before performing any maintenance, make sure the tool is unplugged from the power supply and the switch is in the off (O) position. Failure to heed this warning could result in serious personal injury.

GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

WARNING!

Do not at any time let brake fluids, gasoline, petroleumbased products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

LUBRICATION

All of the bearings in this tool are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions. Therefore, no further lubrication is required.

CHANGING DRIVE BELT (Fig. 19)

- Unplug the belt/disc sander.
- Using a phillips head screwdriver, remove the screw in the center of the belt cover.
- Remove the cover.
- Loosen the three tension screws inside the pulley housing then push the housing down to loosen the belt tension.
- Remove the old drive belt.
- Fit the new drive belt on the drive pulley first then on the motor pulley.
- Test belt tension by squeezing the belt with your fingers.
- Push the pulley housing up to increase belt tension until there is about 6.4mm of give.
- Tighten the tension screws securely.
- Using a phillips head screwdriver, reinstall the pulley cover and the screw. Tighten securely.

SURFACE SANDING ON THE SANDING BELT

- Hold the workpiece firmly, keeping fingers away from the sanding belt.
- Keep the end pressed firmly against the work support moving work evenly across the sanding belt.

NOTE: Use extra caution when sanding very thin pieces.

When sanding extra long pieces, move the work piece across the belt while applying only enough pressure to allow the sanding belt to remove the material.

RYOBI POWER EQUIPMENT WARRANTY

Subject to the warranty conditions below, this RYOBI tool (hereinafter called "the Product"), is warranted by Ryobi (herein 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 warranty, 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 warranty service, the owner must include the Sales Docket and Warranty 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 warranty or guarantee on the Company's behalf except as herein contained or herein referred to.

Warranty Conditions

This warranty 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 warranty does not cover consumable components, 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.

Accessories such as bits, blades, sanding discs, cutting lines, etc., are excluded from this guarantee. Normal consumable parts, such as carbon brushes, bearings, chucks, cord assembly's, spark plugs, recoil pulleys and bump head assembly's are specifically excluded from this guarantee.

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

Nothing herein shall have the effect of excluding, restricting or modifying any conditions, warranty, 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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THIS WARRANTY FORM SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES.

For your record and to assist in establishing date of purchase (necessary for in-warranty 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 Warranty Service is required.