

Bäumr-AG®



Belt and Disc Sander - BD15

User Manual

[Revision 1.0 May 2017]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:

	You WILL be KILLED or SERIOUSLY INJURED if you do not follow instructions.		You CAN be KILLED or SERIOUSLY INJURED if you do not follow instructions.		You CAN be INJURED if you do not follow instructions or equipment damage may occur.
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It is important that you read and understand the instruction manual before use and keep the manual in a safe place for future reference. Safety information presented here is generic in nature – some advice may not be applicable to every piece of equipment.

All safety precautions must be observed to reduce the risk of personal injury when operating the equipment.

The term "equipment" refers to your product, be it electrical mains, battery or petrol engine powered.

IMPORTANT – Handle the equipment safely and carefully.

BEFORE USE - If you are not familiar with the safe operation/handling of this equipment, or are in any way unsure of any aspect of suitability or correct use it for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.

WARNINGS

- Read all safety warnings and all instructions. Failure to follow warnings and instructions may result in electric shock, fire and/or serious injury.
- Never run a combustion engine in confined areas.
- Do not operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. Engine and equipment may create sparks or heat that may ignite vapours, dust etc
- Keep clear of moving parts.
- This equipment may be a potential source of electric shock if misused.
- Do not operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do not allow others to use the equipment unless they have read this manual and are adequately trained.
- When using the equipment, basic safety precautions detailed here must always be followed to reduce the risk of fire, electric shock, personal injury and material damage.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting equipment.

General Work Area Safety

Work areas should be clean and well lit. Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.

Personal Safety

Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

Prevent unintentional starting of the equipment - ensure equipment and power source switches are in the OFF position before connecting or moving the equipment. Do not carry equipment with hands/fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.

Stay alert and use common sense when operating equipment. Do not overreach. Keep proper footing and balance at all times. Do not use equipment when tired or under the influence of drugs, alcohol or medication. This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities.

You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. Always wear eye protection. Protective equipment such as respirators, non-skid safety shoes, hard hat, hearing protection etc should be used for appropriate conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.

If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

General Equipment Use and Care

Do not force the equipment. Use the correct equipment for your application. The correct equipment will perform better and be safer within its design parameters. Do not use the equipment if the ON/OFF switch malfunctions – any equipment that cannot be controlled with the ON/OFF switch is dangerous and must be repaired.

Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.

Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorized service centre or technician before use.

Always keep the equipment and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment, controls and handles dry and free from dirt, oil and grease.

Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place the equipment in places where there are flammable materials, combustible gases or combustible liquids etc.

The equipment is not weatherproof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or very humid.

Product Use and Care

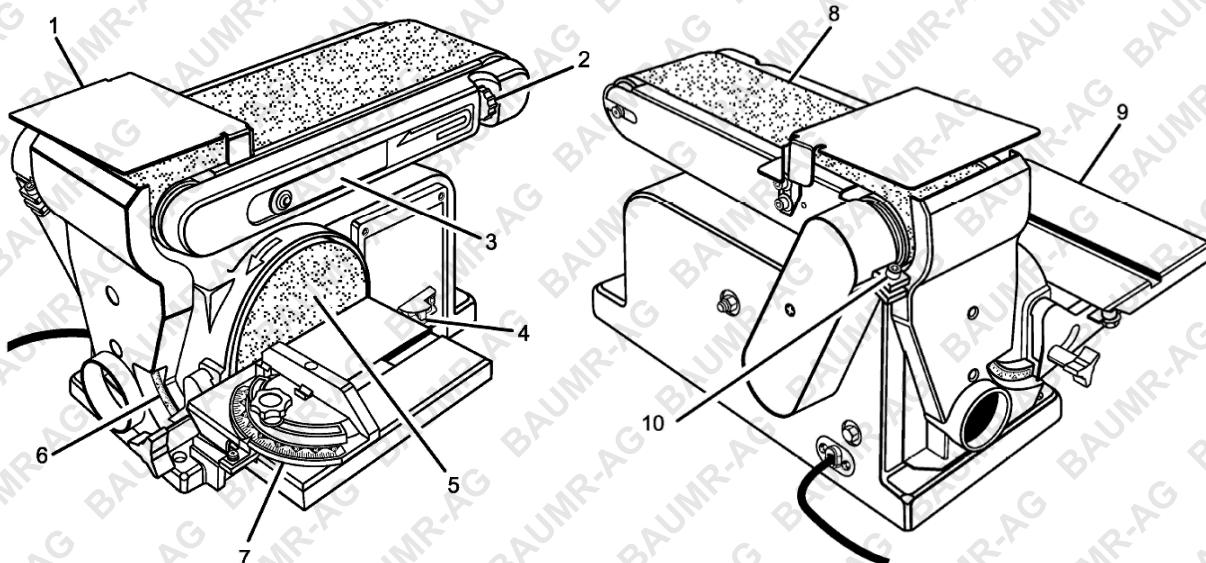
- The machine is for domestic use only.
- Not for outdoor use.
- Do NOT use the equipment if the electrical supply cable or plug is damaged – have the equipment repaired
- Firmly clamp or bolt the tool to a workbench or suitable surface.
- Do NOT stand or have any part of your body in line with the path of the work-piece, if it happens to be thrown.
- Use caution when sanding/grinding to help prevent the work-piece catching against the equipment or getting thrown. This is especially important for large or very small items.
- Ensure there is no debris, protrusions etc between the work-piece and the work supports.
- Do NOT use the equipment on work-pieces that are too small to hold securely in your hands.
- Use additional support for large or heavy work-pieces or items that may tip over if not secured to the work supports.
- Do NOT sand/grind more than one work-piece at a time.

Product Use and Care	General Service Information
<ul style="list-style-type: none">Always support the work-piece using the work supports and ensure that the belt/disc is pushing the work-piece into the support when sanding.Do NOT use worn or damaged (holes, tears etc) belts/discs.Maintain a 1.6mm maximum clearance between the work supports and sanding belt/disc.Always sand in accordance with the directional arrows.Do NOT perform any operation freehand.	<ul style="list-style-type: none">Have the equipment serviced or repaired at authorized service centres by qualified personnel only.Replacement parts must be original equipment manufacturer (OEM) to help ensure that equipment safety is maintained.Do not attempt any maintenance or repair work not described in this instruction manual.After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before making adjustments, changing accessories or performing repair or maintenance.Do not make adjustments while the equipment is running.Perform all service related activities under suitable conditions, such as a workshop etc.Replace any worn, damaged or missing warning labels immediately.Do not clean equipment with solvents, flammable liquids or harsh abrasives.

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Parts Identification



No.	Name
1	Work support
2	Tracking knob
3	Belt tension lever
4	ON / OFF Switch
5	Sanding disc
6	Bevel scale
7	Mitre gauge
8	Sanding belt
9	Work table
10	Positioning bolt

Assembly and Set-Up

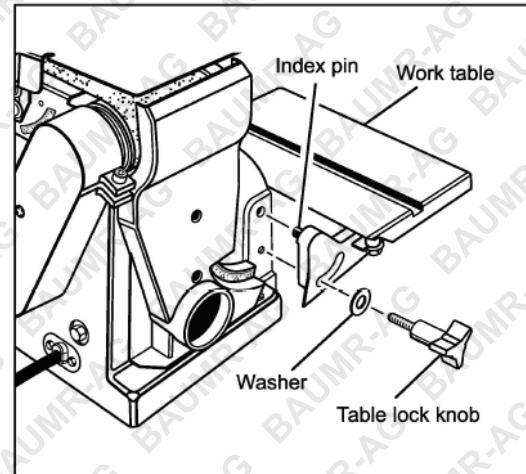


Do not attempt to modify the product or use accessories not supplied or recommended for use with this tool. Any such alteration or modification may result in hazards leading to possible serious personal injury and will void any warranty. • Do not connect the machine to an electrical supply until assembly is complete. Failure to comply could result in accidental starting and possible serious personal injury.

Mounting the Work Table for Use with the Disc Sander

(Fig. 3)

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

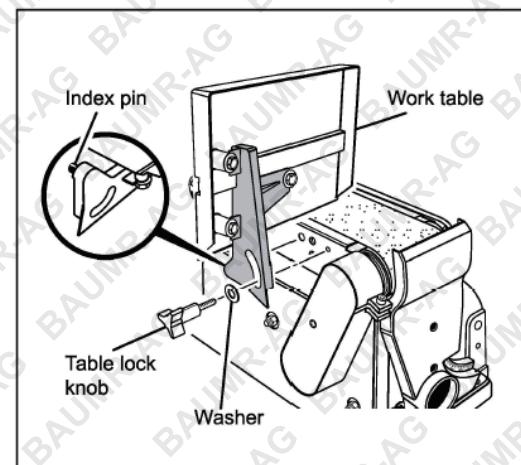


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Mounting the Work Table for Use with the Belt Sander

(Fig. 4)

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

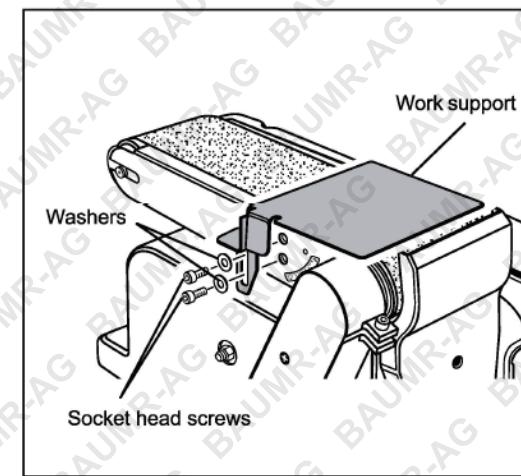


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Assembling the Work Support

(Fig. 5)

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

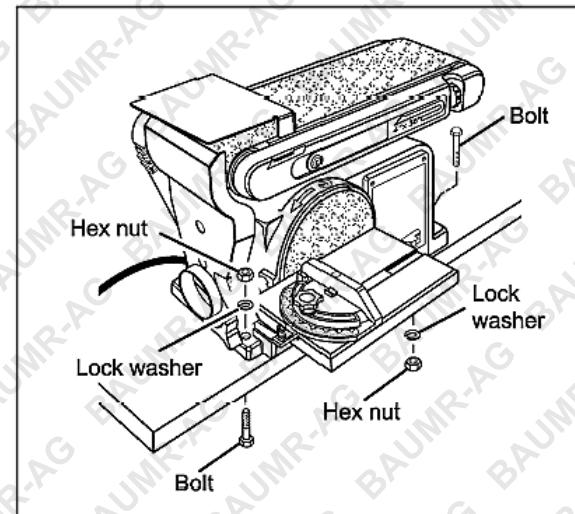


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Mounting the Machine to a Workbench

If the machine 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 (Fig. 6).

1. Mark holes on workbench where belt/disc sander is to be mounted using holes in the base as a template for the hole pattern.
2. Drill holes through the workbench.
3. Place belt/disc sander on workbench aligning holes in the base with holes drilled in the workbench.
4. Use suitable fasteners (not included) to securely attach the machine to the workbench.

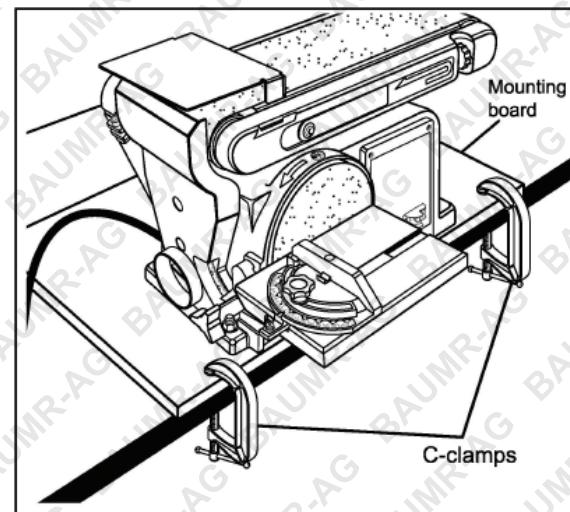


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Clamping the Machine to a Workbench

If the machine 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 machine is in use. 20mm (3/4") thick plywood or chipboard is recommended (Fig. 7).

1. Mark holes on board where belt/disc sander is to be mounted using holes in the base as a template for the hole pattern.
2. Follow the last three steps in section "Mounting the Machine to a Workbench".
3. To use, place the machine and its mounting board on to a suitable surface and clamp the mounting board securely in position.

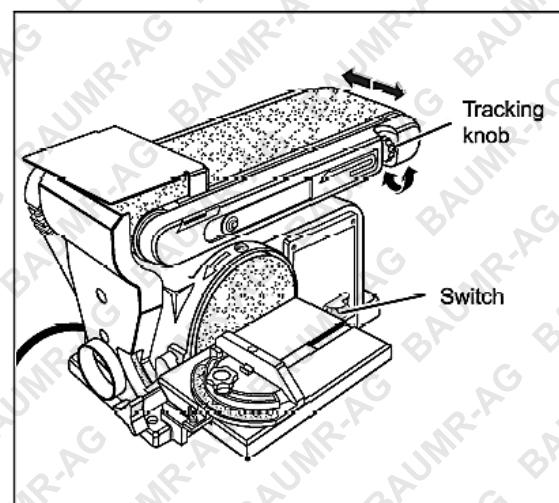


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Adjusting Belt Tracking

(Fig. 17)

1. Connect the machine to the electrical supply.
2. Switch the machine ON, then immediately switch it OFF, noting any sideways belt movement. If the belt tends to move off the idler or drive rollers, it is not tracking properly.
 - If the sanding belt moves toward the disc side of the machine, rotate the tracking knob up 1/4 turn.
 - If the sanding belt moves away from the disc, turn the tracking knob down 1/4 turn.
3. Switch the machine ON, then immediately switch it OFF, noting any sideways belt movement. Readjust tracking if necessary.

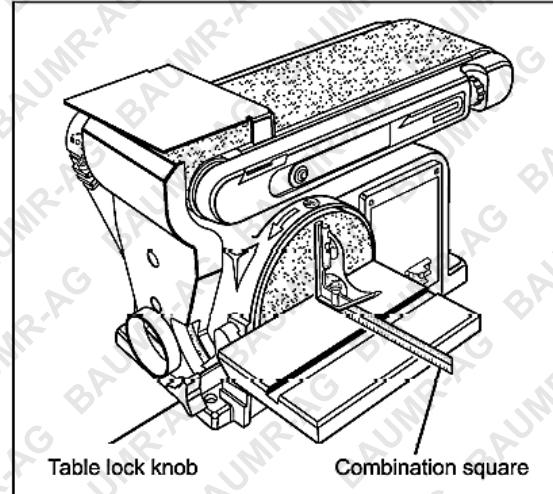


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Squaring the Work Table to the Sanding Disc

(Fig.18)

1. Disconnect the machine from the electrical supply.
2. Using a combination square, check the angle of the work table to the face of the sanding disc.
3. If the work table is not 90° to the disc, loosen the table lock knob and tilt the table so it is square to the disc.
4. Re-tighten the table lock knob.



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Operation



Do not reach across the sanding disc or belt to switch the machine ON or OFF. Contact with the sanding disc can result in serious personal injury. • Do NOT stand or have any part of your body in line with the path of the work-piece, if it happens to be thrown. • Use caution when sanding/grinding to help prevent the work-piece catching against the equipment or getting thrown. This is especially important for large or very small items. • Ensure there is no debris, protrusions etc between the work-piece and the work supports. • Do NOT use the equipment on work-pieces that are too small to hold securely in your hands. • Use additional support for large or heavy work-pieces or items that may tip over if not secured to the work supports. • Do NOT sand/grind more than one work-piece at a lime. Always support the work-piece using the work supports and ensure that the belt/disc is pushing the work-piece into the support when sanding. • Do NOT use worn or damaged (holes, tears etc) belts/discs. • Maintain a 1.6mm maximum clearance between the work supports and sanding belt/disc. • Always sand in accordance with the directional arrows. • Do NOT perform any operation freehand. • Always wear eye protection with side shields during product operation. If operation is dusty, also wear a dust mask.

Power Switch

To switch the machine ON:

- Press the green ON ("I") button.



To switch the machine OFF:

- Press the red OFF ("O") button.



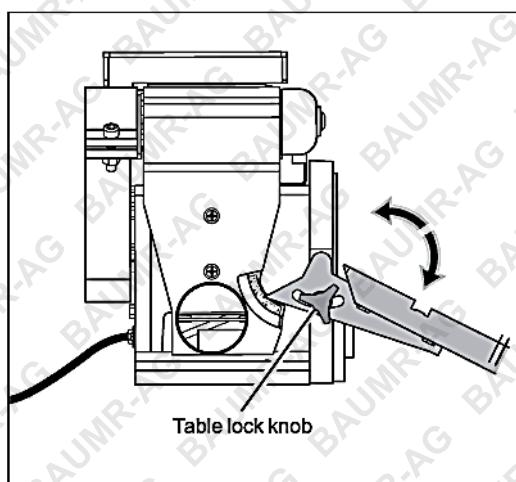
Always ensure the work-piece is not in contact with the belt/disc before starting the machine. Failure to do this may cause the work-piece to be thrown toward the operator and result in serious personal injury. • To reduce the risk of accidental starting, always ensure that the machine is OFF before connecting it to the electrical supply. • In the event of a power failure, switch the machine OFF to prevent the machine from starting when power returns.

Bevel Sanding

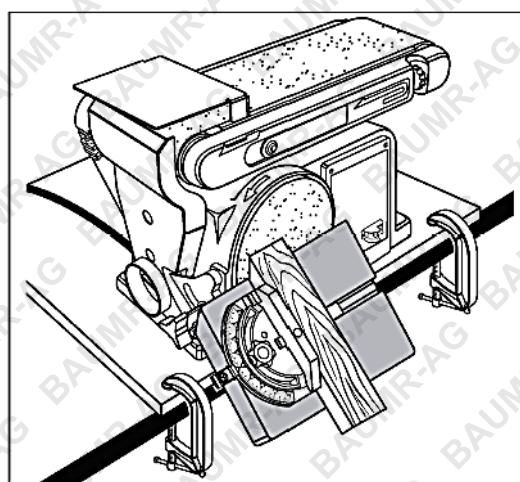
The work table can be tilted from 0° to 45° for bevel sanding. For angles 30° and above, position the machine near the edge of the workbench so the work table can be fully rotated (Fig. 9 and 10).

To tilt the worktable:

- Loosen the work table lock knob by rotating it left (anti-clockwise).
- Rotate the work table to desired angle.
- Tighten the work table lock knob by rotating it right (clockwise).



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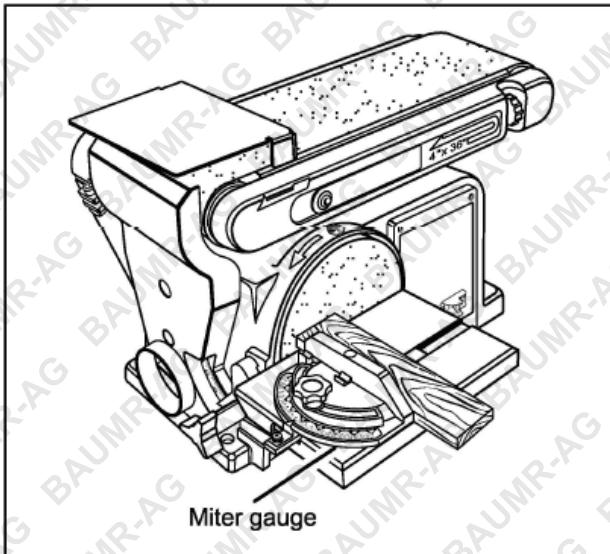
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Bevel Sanding Using the Mitre Gauge

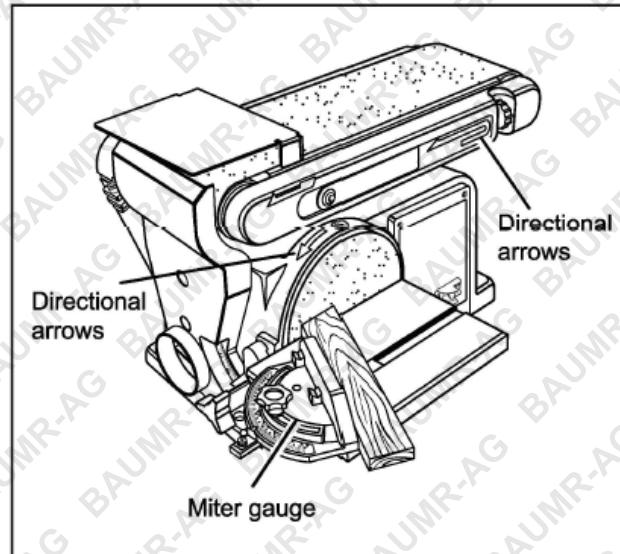
A mitre gauge is included with the tool for increased accuracy. Use of a mitre gauge is recommended for sanding small end surfaces on the sanding disc (Fig. 11 and 12).



Always move the work-piece across the sanding disc from the left side toward the centre. Do NOT sand to the right of the disc centre.



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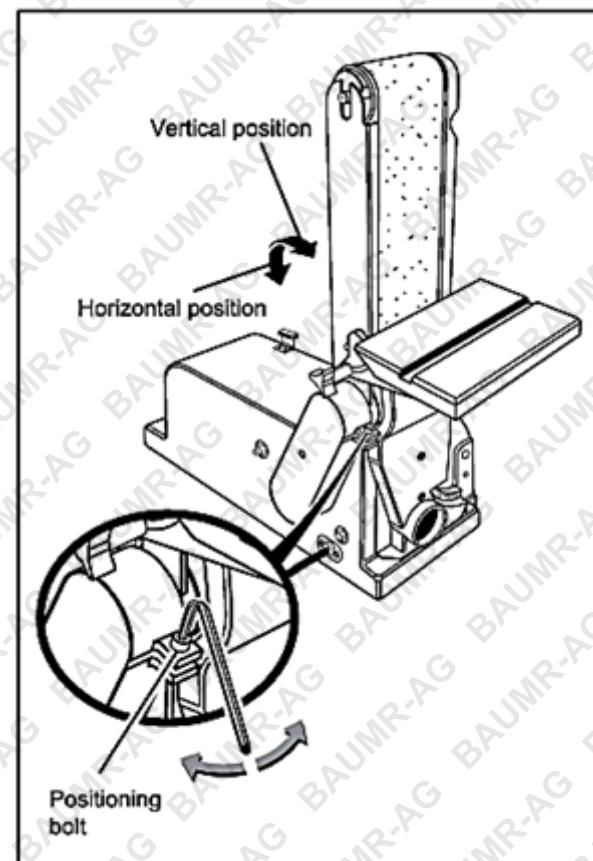
Horizontal and Vertical Sanding

The machine can sand both vertically and horizontally. Depending on the work-piece, use the work support for horizontal sanding operations and use the work support table for vertical sanding operations (Fig. 13).

1. Using the supplied Allen key, loosen the positioning bolt by rotating it left (anti-clockwise).
2. Lift the end of the sanding belt into a vertical position.
3. Lock the sanding belt by re-tightening the positioning bolt.



Always use the work support for horizontal sanding and the work table for vertical sanding. Using the sander without the work support or work table installed may expose the operator to pinch points and could result in serious personal injury. • Sand long workpieces with the sanding belt in the vertical position by moving the work evenly across the sanding belt.



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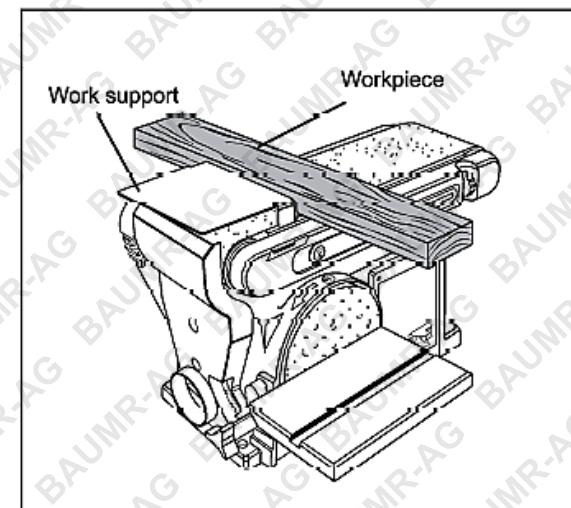
Surface Sanding on the Sanding Belt

(Fig. 14)

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



Use extra caution when sanding 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.



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Sanding Curved Pieces

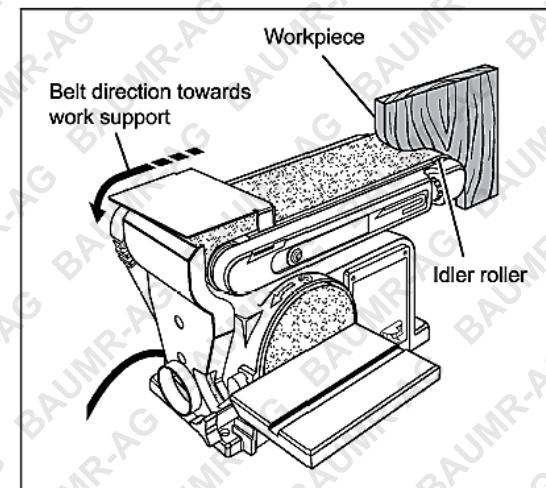


Never attempt to sand the ends of a work-piece on the idler roller as this may cause the work-piece to grab and be thrown up towards the operator. • Use extra caution when sanding very thin pieces and apply only enough pressure to allow the sanding belt to remove the material.

Sanding Inside Curves on the Sanding Belt

Always sand inside curves on the sanding belt idler roller (Fig. 15).

1. Hold the work-piece firmly, keeping fingers away from the sanding belt.
2. Keep the curve pressed firmly against the idler roller, moving the work-piece back and forth evenly across the sanding belt.



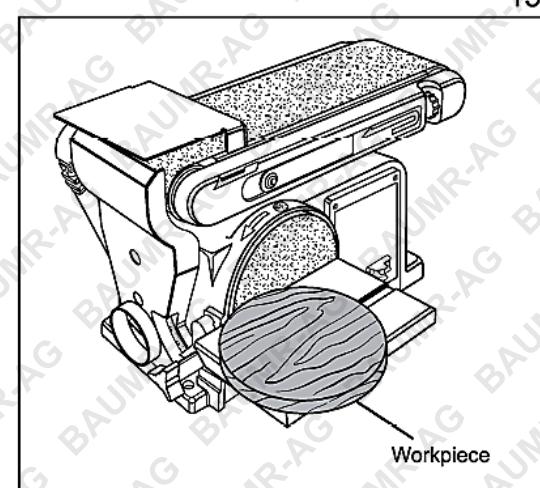
15

Sanding Outside Curves on the Sanding Disc

Always sand outside curves using the sanding disc (Fig. 16).

1. Hold the work-piece firmly, keeping fingers away from the sanding disc.
2. Keep the curve pressed firmly against the sanding disc, moving the work-piece back and forth across between the centre and left side of the disc.

NOTE: Always move the work-piece across the sanding disc back and forth from the left side toward the centre.



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Maintenance



Ensure the machine is switched OFF and disconnected from the electrical supply before performing any maintenance tasks. • All protection and safety devices must be immediately re-installed once the maintenance work is completed. • When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage and may void any warranty. • Some maintenance activities described may be beyond the scope of some users. For procedures that you are not comfortable with or have the tools or experience for, have the unit serviced by a service centre or qualified technician. • Do not allow chemicals, solvents or petroleum based products come into contact with plastic parts as this may damage and weaken them, creating a hazard. • The machine bearings are pre-lubricated for the life of the unit and require no further maintenance.

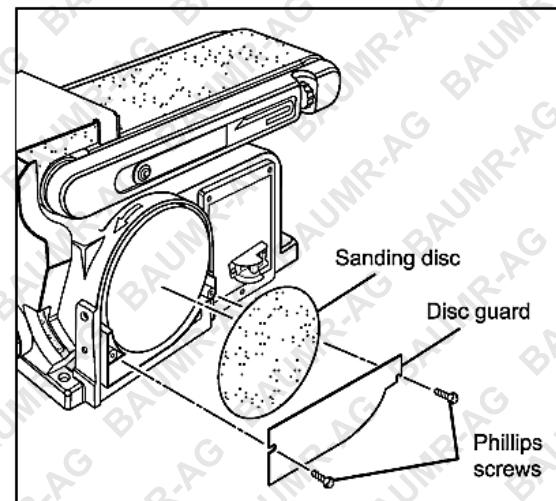
To keep the machine performing at optimal efficiency, regular checks and maintenance is required. Proper care and maintenance ensures best performance and longest service life.

- Clean the machine after each use with a brush and cleaning cloth to help prevent the build-up of dust and abrasive particles. Do not use chemicals, solvents or abrasive materials.

Installing/Replacing the Sanding Disc

(Fig. 1)

1. Remove the backing from the sanding disc.
2. Align the outer edge of the sanding disc with the plate and press firmly into position.
3. Align the disc guard with the mounting holes, and secure it using the two Phillips head screws, securely tighten the disc guard in place.

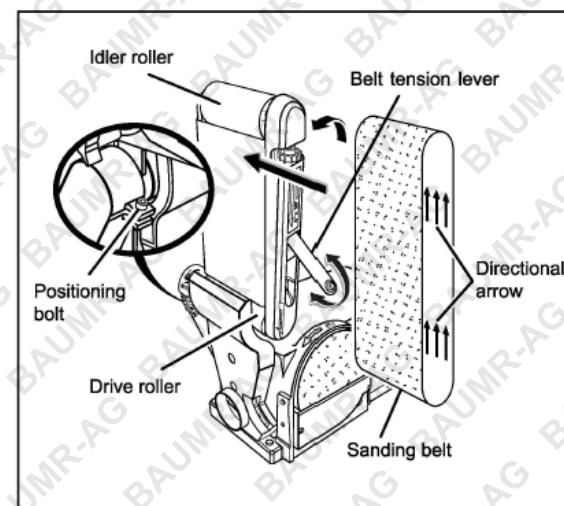


1

Installing/Replacing the Sanding Belt

On the inner side of the belt are directional arrows. The belt must run in the direction of the arrow (Fig. 2).

1. Using the supplied Allen key, loosen the positioning bolt by rotating it left (anti-clockwise).
2. Lift the end of the sanding belt into a vertical position.
3. Lock the sanding belt by re-tightening the positioning bolt.
4. Pull the belt tension lever toward you to release the belt tension.
5. Place the sanding belt over the drive and idler rollers with the directional arrows running counter clockwise. Be sure the sanding belt is centred on both rollers.
6. Push the belt tension lever back into place to apply the belt tension.



2

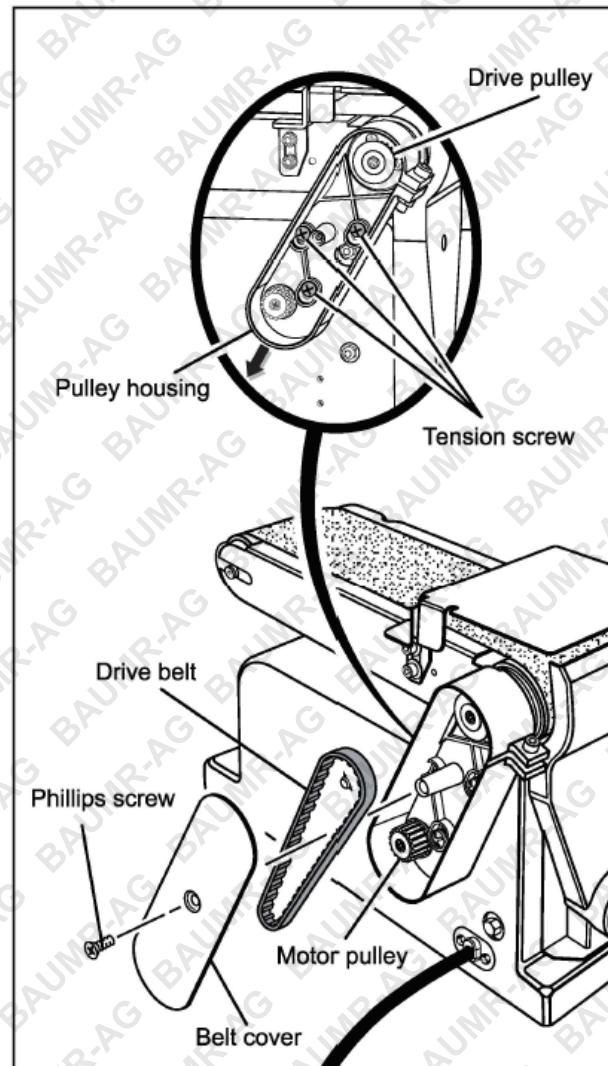


The belt tension lever is spring loaded; use caution when pushing the tension lever back into place to avoid injury.

Changing the Drive Belt

(Fig. 19)

1. Disconnect the machine from the electrical supply.
2. Using a Philips head screwdriver, remove the screw in the centre of the belt cover.
3. Remove the cover.
4. Loosen the three tension screws inside the pulley housing then push the housing down to loosen the belt tension.
5. Remove the old drive belt.
6. Fit the new drive belt on the drive pulley first then on the motor pulley.
7. Test belt tension by squeezing the belt with your fingers. Push the pulley housing up to increase belt tension until there is about 6mm (1/4") of give.
8. Tighten the tension screws securely.
9. Using a Phillips head screwdriver, reinstall the pulley cover and the screw. Tighten securely.



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Specifications

Electrical Requirements	240VAC / 50Hz
Speed	2850RPM
Belt Size	100 x 914mm
Belt Speed	7.5m/s
Belt Tilt	0 to 90°
Disc Size	150mm



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

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