



1/3 HP

BELT/DISC SANDER

BD1500

INSTRUCTION MANUAL

GMC[®]

GLOBAL MACHINERY COMPANY

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Warranty Power Tools

Whilst every effort is made to ensure your complete satisfaction with this tool, occasionally, due to the mass manufacturing techniques, a tool may not live up to our required level of performance and you may need the assistance of our service department.

This product is warranted for a 2-year period for home domestic use from the date of the original purchase. If found to be defective in materials or workmanship, the tool or the offending faulty component will be repaired or replaced free of charge with another of the same item. A small freight charge may apply. Proof of purchase is essential. We reserve the right to reject any claim where the purchase cannot be verified.

This warranty does not include damage or defects to the tool caused by or resulting from abuse, accidents, alterations or commercial or business use. It also does not cover any bonus items or included accessories. Only the power tool is covered under this warranty.

With continuing product development, changes may have occurred which render the product received slightly different to that shown in this instruction manual.

Please ensure that you store your receipt in a safe place.

Conditions apply to the above warranty. For full details of the warranty terms and conditions please refer to our website – www.gmcompany.com

For prompt service we suggest you log your service request online - www.gmcservice.com.au, should you not have access to the internet, please contact our service department on 1300 880 001 (Australia) or 0800 445 721 (New Zealand).

Introduction

Your new GMC power tool will more than satisfy your expectations. It has been manufactured under stringent GMC Quality Standards to meet superior performance criteria.

You will find your new tool easy and safe to operate, and, with proper care, it will give you many years of dependable service.

CAUTION. Carefully read through this entire Instruction Manual before using your new GMC Power Tool. Take special care to heed the Cautions and Warnings.

Your GMC power tool has many features that will make your job faster and easier. Safety, performance, and dependability have been given top priority in the development of this tool, making it easy to maintain and operate.

Environmental protection



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe way.

Description of symbols

The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use.



Wear hearing protection.

Wear eye protection.

Wear breathing protection.



Earthed Appliance



Conforms to relevant standards for electromagnetic compatibility.

N380

Specifications

Nominal voltage:	230–240Vac ~ 50Hz
Input power:	370W
No Load Disc speed:	2800min ⁻¹
No Load Belt speed:	500 mt/min
Sanding Disc size:	150 mm
Sanding Belt size:	100 x 914 mm
Table size:	155 x 225 mm
Net weight:	17kg

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 those 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.

Additional safety rules for belt & disc sanders

WARNING: To avoid mistakes that could cause serious permanent injury, do not plug the sander in until the following steps are completed:

- Assembly and alignment
- Learn the use and function of the On/Off switch, backstop, belt tracking knob, belt tension lever, work table and work table tilt lock knob.

- Review and understand all safety instructions and operating procedures in this manual.
- Read manual before using sander
- Wear safety goggles
- Wear a dust mask
- Maintain 1-2 mm maximum clearance between table and sanding belt and disc
- Always support workpiece with “backstop” or “worktable”
- Avoid “kickback” (workpiece thrown at you). Use only left hand side of disc.
- Avoid fire. Clean out all sawdust and disconnect from any vacuum before sanding metals.
- Always unplug the sander before moving it.
- Put the sander on a firm level surface where there is plenty of room for handling and properly supporting the workpiece.
- Support the sander so it does not rock.
- Bolt the sander to its work surface.
- Never stand on the tool. Serious injury could occur if the tool tips. Do not store anything above or near the tool where anyone might stand on the tool to reach them.
- Check damaged parts, check for alignment of moving parts, binding of moving parts, broken parts, - Do not use sanding belts narrower than 100mm – narrower belts uncover parts that could trap your fingers.
- Remove adjusting keys and wrenches from tool before turning it on.
- Adjust work support to clear the sanding surface by no more than 1-2 mm. When checking clearance between the belt and work support, press the belt flat against the metal beneath it.
- Make sure all clamps and locks are tight and no parts have excessive play.
- Never use the sander near flammable liquids, vapors or gases.

- Keep guards in place and in working order.
- Don't do layout, assembly, or setup work on the sander while any parts are moving.
- Make sure there are no nails or foreign objects in the part of the workpiece to be sanded.
- Make sure there are no debris between the workpiece and its supports.
- When sanding irregularly shaped workpieces, plan your work support so it will not slip and be pulled from your hands.
- Use extra caution with large, very small or awkward workpieces.
- Never use this tool to finish pieces too small to hold by hand.
- Use extra supports (tables, saw horses, blocks, etc.) for any workpieces large enough to tip when not held down to the table top.
- Never use another person as a substitute for a table extension, or as additional support for a workpiece that is longer or wider than the basic sander table, or to help feed, support or pull the workpiece.
- When finishing on the disc always press the workpiece against the "down" side of the disc. Sanding against the side coming up from under the table could damage the work by making it "chatter" or tear the work from your hands and throw it.
- Sand only one workpiece at a time.
- Clear everything except the workpiece and related support devices off the table before turning the sander on.
- Plan the way you will hold the workpiece from start to finish.
- Avoid awkward operations and hand positions where a sudden slip could cause fingers or hand to move into a sanding surface. Keep fingers away from where the belt goes into the dust trap.

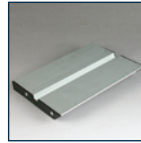
Unpacking

Due to modern mass production techniques, it is unlikely that your power tool is faulty or that a part is missing. If you find anything wrong, do not operate the tool until the parts have been replaced or the fault has been rectified. Failure to do so could result in serious personal injury.

Accessories

The Belt & Disc sander is supplied with the following parts:

1. Work table
2. Table support
3. Mitre gauge
4. Sanding disc
5. Disc guard
6. Work support
7. Table lock knob
8. Washers (6.5 x 17.8 x 1.6) x5
9. Pan head screws M4.2 x2
10. Lock washers M6 x4
11. Hex head screws (M6 x 14) x4
12. Allen Key 6mm



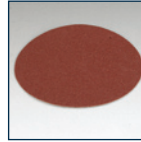
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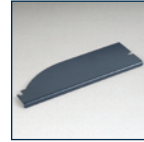
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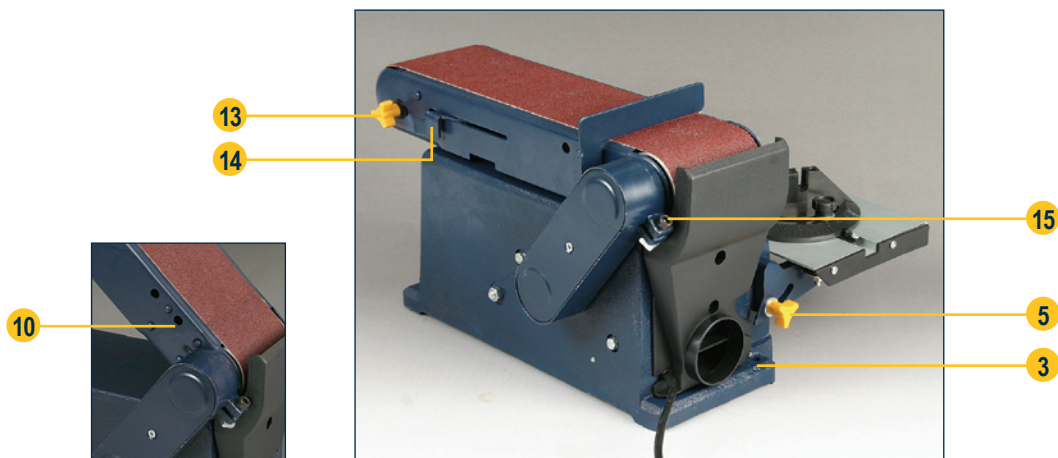
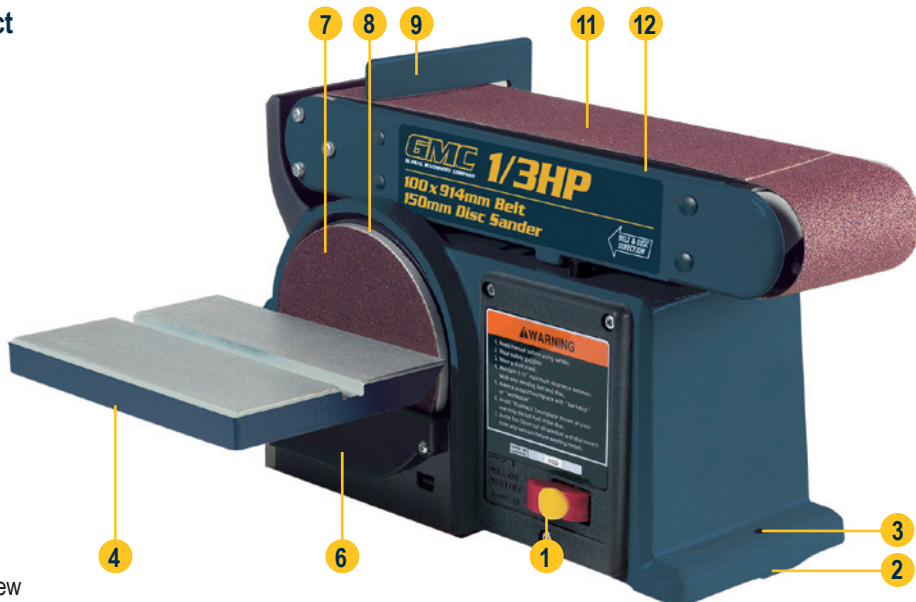
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Know your product

1. On/off switch
2. Base
3. Mounting holes (x2)
4. Work table
5. Table lock knob
6. Disc guard
7. Sanding disc
8. Sanding plate
9. Work support
10. Work support hex screw
11. Sanding belt
12. Belt bed
13. Belt tracking knob
14. Belt tension lever
15. Belt bed locking screw



Getting to know your belt and disc sander

WARNING: To avoid injury from accidental start, turn switch 'OFF' and remove plug from power source outlet before making any adjustments.

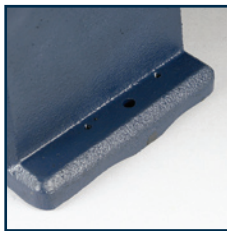
1. Work Support. Supports the workpiece on the sanding belt.
2. Hex Socket Head Screw. Loosening screw allows belt bed to be raised to the vertical position.
3. Tracking Knob. Turning knob anti-clockwise causes sanding belt to move towards the disc. Turning knob clockwise causes sanding belt to move away from the disc.
4. Tension Lever. Sliding lever to the right releases the sanding belt tension; sliding lever to the left applies belt tension.
5. Table Lock Knob. Loosening knob allows the work table to be tilted for bevel sanding.
6. Auxiliary Mounting Hole. Allows table assembly to be mounted for end sanding when bed is placed in vertical position.

Mounting belt and disc sander to workbench

If belt and disc sander is to be used in a permanent location, it should be fastened securely to a firm supporting surface such as a workbench.

If mounting to a workbench, holes should be drilled through supporting surface of the workbench.

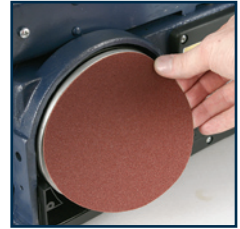
1. The unit should be bolted securely using M8 screws and hex nuts (not included). Screw length should be 38mm plus the thickness of the bench top.
2. Locate and mark the holes where belt and disc sander is to be mounted.
3. Drill (2) x 9.5 mm diameter holes through workbench.
4. Place belt and disc Sander on workbench aligning holes drilled in workbench.



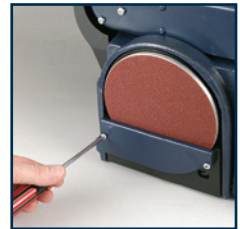
5. Insert two M8 screws and tighten hex nuts.

Installing sanding disc and guard

1. Remove the backing from the sanding disc (7). Align perimeter of disc with sanding plate (8) and press disc firmly into position all the way around.
2. Locate disc guard (6) and two M4.2 pan head screws.
3. Position disc guard against lower 1/3 of disc aligning holes.



4. Using a Phillips screwdriver, fasten the pan head screws securely, applying light pressure to thread the holes.



Installing work support

1. Using a wrench secure work support (9) to side of belt & disc sander using M6 hex screw, lock washer and washer.
2. Hold work support in position and fasten.

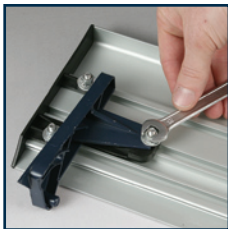


Installing table assembly

1. Position table support against table (4) and align the holes.
2. Using 3 M6 hex screws, 3 lock washers and 3 flat washers fasten the table support to the work table.
3. Position the table support in the corresponding holes on the side of the base. Ensure that the 9.5 mm diameter index pin aligns with the upper hole.
4. Place the 6.5 mm washer on the end of the table lock knob threaded shaft and insert shaft through the slot and into the threaded hole of base.

WARNING: To avoid trapping the work of fingers between the table and sanding surface, the table edge should be a maximum of 1-2 mm from sanding surface.

5. Loosen the 3 hex head screws at bottom of table support and adjust table as required. Adjust table as necessary and retighten screws.



Auxiliary mounting for vertical sanding

1. Remove work support (9) lock and bolt (10), and remove work support.
2. Remove table assembly by removing table lock knob and washer.



3. Loosen the belt bed locking screw (15) and raise the belt sander bed (12) to the vertical position. Retighten the locking screw (15).



4. Attach work table assembly (4) to auxiliary holes in belt bed. Make sure index pin is in the upper hole when sanding table is in vertical position.

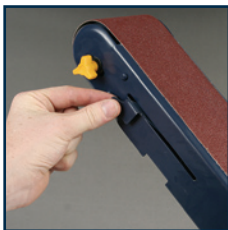


Installing the sanding belt – tensioning and tracking

WARNING: To avoid injury from accidental start, turn switch 'OFF', remove key and remove plug from power source outlet, before removing or installing belt.

On the smooth side of the sanding belt, you will find a 'directional arrow'. The sanding belt must run in the direction of this arrow, so that the splice does not come apart.

1. Slide tension lever (14) to the right to release the belt tension.
2. Place the sanding belt (11) over the drums with the directional arrow pointing towards the left hand side. Make sure the belt is centred on both drums.
3. Slide tension lever to the left to apply belt tension.
4. Tighten hex socket screw (15) when bed is in desired position.
5. Plug in the power cord. Turn switch 'On' and immediately 'OFF', noting if the belt tends to slide off the idler drum or drive drum. If it did not tend to slide off it is TRACKING properly.
6. If the sanding belt moves toward the disc, turn the tracking knob (13) clockwise 1/4 turn.



7. If the sanding belt moves away from the disc, turn the tracking knob (13) anticlockwise 1/4 turn.
8. Turn switch 'ON and immediately 'OFF' noting belt movement. Readjust tracking knob if necessary.



Turning on and off

1. Connect the plug to the power supply
2. To turn on press the green 'ON' button.
3. To switch off, press the red 'OFF' button.
4. Unplug the tool from the power point to prevent unauthorised use.

Basic operation

Bevel sanding

1. The work table (4) can be tilted from 0° to 45° for bevel sanding.
2. Loosen the table lock knob (5) and tilt the work table to the desired angle.
3. Retighten the table lock knob.



WARNING: To avoid trapping the work or fingers between the table and sanding surface, the table should be repositioned on the table support to retain a maximum of 1-2 mm distance between sanding surface and table.

Positioning belt bed

The belt bed locking hex screw locks the belt bed (12) in a vertical or horizontal position.

To adjust vertical position:

1. Remove work support (9)
2. Loosen the hex head locking screw (15) using a 6 mm hex wrench.
3. Position belt bed and retighten the hex head locking screw.



Surface sanding on the sanding belt

WARNING: To avoid injury from slips, jams or thrown pieces, adjust the backstop to clear the sanding surface by no more than 1-2 mm.

When checking clearance between the belt and work support, press the belt flat against the metal beneath it.

1. Hold the work piece firmly with both hands, keeping fingers away from the sanding belt.
2. Keep the end butted against the backstop and move the work evenly across the sanding belt. Use extra caution when sanding very thin pieces.
3. When sanding long pieces, remove the work support.
4. Apply only enough pressure to allow the sanding belt to remove any material.



End sanding on the sanding belt

1. It is more convenient to sand the ends of long workpieces with the sanding belt in a vertical position.
2. Move the work evenly across the sanding belt. For accuracy, use the mitre gauge.



Sanding curved edges

1. Always sand inside curves on idler drum as shown.

WARNING: Never attempt to sand the ends of a workpiece on the idler drum. Applying the end of the workpiece to the idler drum could cause the work piece to fly up and result in an injury.

2. Always sand outside curves on the left hand side of the sanding disc.

WARNING: Applying the workpiece to the right side of the disc could cause workpiece to fly up (kickback) and result in injury.



Sanding small end surfaces on the sanding disc

1. Use of the mitre gauge is recommended for this operation.
2. Rest the workpiece against the edge of the mitre gauge.
3. Always move the work across the left hand side of the sanding disc.
4. The table may be tilted for bevelled work.



Maintenance

Note: Always wear eye protection when cleaning the tool.

WARNING: Always ensure that the saw is switched off and unplugged from the power supply before carrying out any maintenance or cleaning.

1. Keep the tool's air vents unclogged and clean at all times.
2. Remove dust and dirt regularly. Cleaning is best done with a brush or a rag.
3. Re-lubricate all moving parts at regular intervals.
4. Never use caustic agents to clean plastic parts.

CAUTION: Do not use cleaning agents to clean the plastic parts of the tool. A mild detergent on a damp cloth is recommended. Water must never come into contact with the tool.

Power cord maintenance

If the supply cord needs replacing, the task must be carried out by the manufacturer, the manufacturer's agent, or an authorised service centre in order to avoid a safety hazard.

General inspection

Regularly check that all the fixing screws are tight. They may vibrate loose over time.

Repairs

Only an authorised service centre should replace the cordset or carry out other repairs.

Once a month, lubricate all moving parts with machine oil. Take care to keep the oil away from any electrical components.

Parts should only be replaced or repaired by an authorised service centre.

GMC customer assist

Attach Your
Receipt Here

If your product needs repairing, replacing, technical service or you simply need help or advice, please contact us on our Customer Assist Line 1300 880 001 (Australia) or 0800 445 721 (New Zealand).

For prompt service we suggest you log your service request online at www.gmcservice.com.au. Should you not have access to the Internet, please contact our service department on 1300 880 001 (Australia) or 0800 445 721 (New Zealand). 7am – 7pm, 7 days a week (AEST).

Please note that if repair or replacement is required, you must provide a valid original purchase receipt.

You will need the following details at hand to log your service request;

Personal details: First & Last name, address, pick up address, contact phone numbers, email address

Product details: Product number, date of purchase, retailer bought from, State & postcode, receipt number, reason for the request, copy of official purchase receipt

Attach your purchase receipt and save with this Manual for future reference.

Please refer to our website www.gmcompany.com for full GMC warranty Terms and Conditions.

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