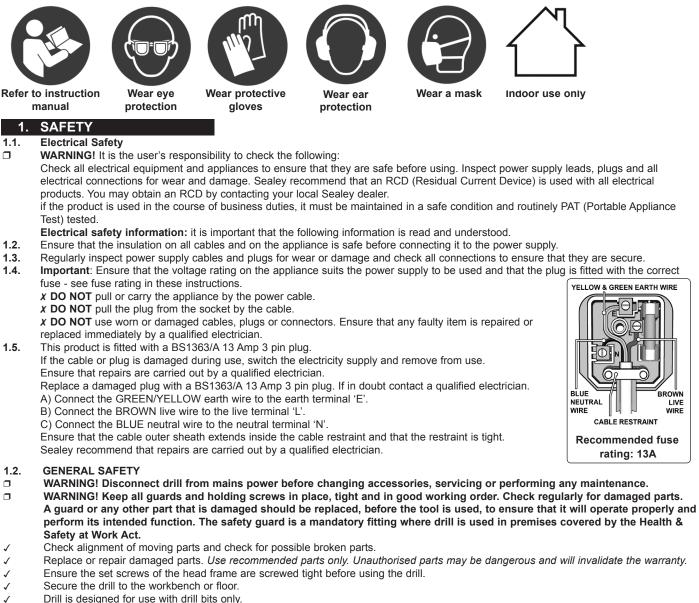
SEALE INSTRUCTIONS FOR: BENCH & FLOOR MOUNTED PILLAR DRILLS MODEL NO'S: GDM150B.V2, GDM180B.V2, GDM200F.V2

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions and maintained properly, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



- Ensure the chuck is securely fastened to the spindle.
- ✓ Remove adjusting keys, chuck key and wrenches from the machine and working area before switching on.
- ✓ Use clamps or a vice (not included; available from your Sealey stockist) to secure the workpiece. **DO NOT** attempt to hold the workpiece by hand.
- Refer to speed chart for recommended drilling speeds.
- WARNING! Always wear approved eye or face protection when operating this drill. Use a face or dust mask if dust is generated.
 Keep drill bits clean and sharp for best and safest performance. Follow the instructions for lubrication and changing accessories.
- Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain long hair.
- Locate the drill in a suitable work area, keep area clean and tidy and free from unrelated materials. Ensure there is adequate lighting.
 Exclude children and non-essential persons from the work area.
- Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Avoid unintentional starting.
- **DO NOT** use the drill for a task it is not designed to perform.
- x DO NOT allow untrained persons to operate the drill.
- x DO NOT get the drill wet or use in damp or wet locations or areas where there is condensation.
- x DO NOT operate the drill if damaged or parts are missing.

- DO NOT use drill in an area where paint fumes, solvents or flammable liquids pose a potential hazard. Keep flammable material away .Х from the drill when operating. Flammable waste, such as wiping or cleaning rags, must be placed in a closed metal container and disposed of correctly.
- DO NOT exceed the rated capacity of the drill. X
- DO NOT leave the drill operating unattended. X
- DO NOT operate the drill when you are tired, under the influence of alcohol, drugs or intoxicating medication. X When not in use switch off the drill, remove plug from the power supply and do not leave until the drill has come to a complete stop.

INTRODUCTION 2.

A comprehensive range of bench/floor pillar drills to suit light industrial, agricultural and woodworking applications. Safety devices fitted include a no-volt release switch, allowing insurance company approval for use in educational establishments. All models (except Model No. SDM30) have Morse taper spindle housings for taking taper shank drill bits. Each model offers multiple speed drives and access to drive belts is denied during operation by mechanical protection. All drills are fitted with rack and pinion feed shafts with preset depth control for repetitive work. Mortise attachment available for Model No's GDM120B.V2 - GDM20OF.V2 inclusive.

3. SPECIFICATION

| Model No: | . GDM150B.V2 | GDM180B.V2 | GDM200F.V2 |
|------------------------------------|---------------|-------------|---------------|
| Drilling Capacity (Chuck Size): | . 16mm | 20mm | 16mm |
| Spindle Nose Taper: | . MT2 | MT3 | MT2 |
| Spindle Centre to Column: | . 178mm | 216mm | 178mm |
| Spindle Travel: | .80mm | 80mm | 80mm |
| Number of Speeds: | . 16 | 16 | |
| Speed Range: | | | |
| Maximum Distance Spindle to Table: | . 480mm | 495mm | 800mm |
| Maximum Distance Spindle to Base: | . 670mm | 685mm | 1230mm |
| Working Table Surface Size: | .Ø310 | Ø355mm | Ø310mm |
| Working Base Surface Size: | . 200 x 220mm | 240 x 280mm | . 200 x 220mm |
| Overall Base Size: | . 460 x 275mm | 520 x 320mm | . 460 x 275mm |
| Column Diameter: | .80mm | 80mm | 80mm |
| Collar Diameter: | .60mm | 75mm | 60mm |
| Overall Height: | . 1070mm | 1085mm | 1630mm |
| Motor Power (Start): | . 450W (650W) | 550W (750W) | . 450W (650W) |
| Supply: | .230V | 230V | |
| Weight: | .60kg | 80kg | 67kgkg |
| Duty Cycle: | | | |
| Optional Keyless Chuck 16mm: | | | |

4. CONTENTS

4.1. Package contents Unpack the parts listed below and check to ensure they are in good condition. Any queries must be reported to your stockist immediately.

✓ Head Assembly

- ✓ Column with Flange
- ✓ Adjusting Handle with Set Screw (table)
- ✓ Pivoted Clamp Bolts (2 table arm & bracket)) ✓ Bolts and Washers (4)
- ✓ Arbor
- ✓ Wedge

- ✓ Base
- ✓ Feed Handle and knobs ✓ Table
- ✓ Set Screws (2)
- ✓ Hex. Keys (2)

- ✓ Chuck and Key
- Table Arm, Bracket & Worm 1
- 1 Rack and Rack Ring
- ✓ Safety Guard

5. ASSEMBLY

Note: Figures are illustrative and may differ in detail from your drill.

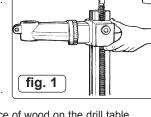
5.1. Assembly

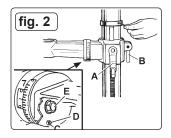
- Place the column assembly on the base, align holes and secure with the bolts and washers provided. 5.1.1.
- Install table bracket onto column together with rack (fig.1), engaging gear in bracket with rack. 5.1.2.
- Install the rack collar and tighten firmly (fig.2). 5.1.3.
- Install the table adjusting handle (fig.2.A) and pivoted clamp bolt (the longer of the two fig.2.B). 5.1.4.
- Tighten the handle set screw (with the hex. key provided) and the bracket clamp bolt. 5.1.5.
- 5.1.6. Install the table and table clamp bolt (fig.3).
- 5.1.7. Carefully place the head assembly over the column and slide it into position. Align head with base.
- Fit the two set screws in the side of the head and tighten with hex. key (fig.4) to lock head in position. 5.1.8.
- Fit the feed handle to the hub of the pinion shaft (align pin with slot) and retain with central screw. 5.1.9.
- 5.1.10. To install chuck: open the chuck jaws completely by turning the chuck key anticlockwise. Place a piece of wood on the drill table (to prevent the chuck from getting damaged).
- 5.1.11. Insert arbor (fig.5.B) into drill spindle (reduced diameter end first), fit chuck to protruding end of arbor and hold in place.
- 5.1.12. Turn feed handle to bring nose of chuck down onto wood (fig.5). Firmly pull on feed handle to seat arbor tapers in spindle and chuck.
- 5.1.13. Loosen clamp screw on safety guard mounting collar, pass guard up over chuck and fit collar round flange of quill shaft. Ensure guard pivot is central and tighten clamp screw.

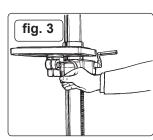
5.2. **Drill mounting**

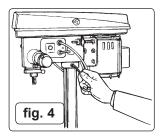
5.2.1. For stability and safety it is important that the drill base is securely bolted to the workbench (GDM150B.V2/180B.V2) or floor (GDM200F.V2)

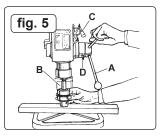
5.2.2. Ensure that the mounting surface is capable of supporting the drill together with the weight of the heaviest likely workpiece.











6. OPERATION

WARNING! Ensure the drill is unplugged from the mains power supply before commencing.

6.1. Install drill bit

- 6.1.1. Insert drill bit into chuck jaws to 1" (25mm) deep (avoid inserting small bits too far) and centre bit in chuck before tightening.
- 6.2. Adjusting the table
- 6.2.1. To adjust table up or down, loosen the clamp bolt (fig.2.B) then turn the bracket handle (fig.2.A).
- 6.2.2. To adjust table tilt, loosen the work table bolt (fig.2.C), remove locking pin (below bolt) and adjust to the desired angle using the angle scale, then retighten. When returning table to horizontal replace locking pin.
- 6.2.3. To turn the table around the column, loosen the rack collar slightly, then loosen the clamp bolt (fig.2.B). Turn the table to the desired position then secure the bolt and the rack collar.

6.3. Adjusting the speed

NOTE: the belt cover is fitted with a micro-switch to prevent drill operation with the cover open.

6.3.1. Open the pulley case and loosen the belt tension lock screws (fig.6.A) - one either side of head.

6.3.2. Choose the speed for drilling operation (see drill speed chart - Section 7) and move the belts to the

correct position for that speed, as shown on the chart inside the pulley cover.

6.4. Belt tension

6.4.1. With the belt tension lock screws (fig.6.A) loose and using hand pressure on the adjusting handle (fig.5.C), set tension so that belt deflection is no more than 1/2" (13mm). Tighten lock screws.

6.5. Positioning the workpiece

- 6.5.1. Use a piece of wood to rest the workpiece on. The drill bit may break through the workpiece and damage the table otherwise. The wood should rest on the table so that one end of it is against the left side of the column, to prevent it spinning when the drill bit breaks through the workpiece.
- 6.5.2. For small workpieces that cannot be clamped to the table, use a drill vice (not included). Vice must be clamped or bolted to table.6.6. Setting the drill depth
- 6.6.1. Use the scale on the side of the drill head near the drill handle.
- 6.6.2. Loosen locking screw (fig.5.D) and set the scale to the depth desired. Tighten locking screw.
- 6.6.3. When ready to drill, simply pull the feed handle. The drill will stop at the set depth.

| Drill Dia (mm) | Drill Speed (rpm) | | | |
|-----------------|-------------------|-----------|------|----------------|
| Drill Dia. (mm) | Steel | Cast Iron | Iron | Alum. & Copper |
| 3 | 1820 | 2580 | 2580 | 2580 |
| 4 | 1350 | 1820 | 1820 | 2580 |
| 5 | 1290 | 1350 | 1350 | 2580 |
| 6 | 970 | 1290 | 1290 | 2580 |
| 7 | 830 | 970 | 970 | 2580 |
| 8 | 830 | 970 | 970 | 2580 |
| 9 | 500 | 970 | 830 | 1820 |
| 10 | 500 | 830 | 830 | 1820 |
| 11 | 500 | 830 | 830 | 1820 |
| 12 | 420 | 830 | 500 | 1820 |
| 13 | 420 | 500 | 500 | 1350 |
| 14 | 420 | 500 | 500 | 1350 |
| 16 | 320 | 500 | 500 | 1290 |
| 18 | 320 | 420 | 420 | 1290 |
| 20 | 280 | 320 | 320 | 970 |
| 22 | 210 | 320 | 280 | 970 |
| 25 | 120 | 280 | 210 | 830 |

7. DRILL SPEEDS

8. MAINTENANCE

- WARNING! Disconnect drill from mains power before changing accessories, servicing or performing any maintenance.
- 8.1. Clean the tool after each use. A coat of maintenance spray applied to the table and column will help to keep the surfaces clean.8.2. Blow out any dust that may have accumulated in the motor.
- 8.3. Periodically lubricate the table elevation rack/gear/worm mechanism and the spindle sleeve exterior.

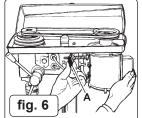
o.o. renoucany lubicate the table elevation rack/gear/worm mechanism and the spinule sleeve exterior.

8.4. Belt changing You Tube Please note that an instructional video for this product is available to view on our YouTube channel.

8.4.1. Isolate the drill from the power supply.

- 8.4.2. Remove the belt tension as in section 6.4.
- 8.4.3. Remove the belt(s) and replace with another of the same specification.
- 8.4.4. Re-tension the belts as in section 6.4.

8.4.5. Close and secure the pulley case.



9. TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | SOLUTION | |
|-----------------------------------|--|---|--|
| Machine will not start | 1. Micro switch in belt cover not closed | 1. Adjust striker plate | |
| Excessive noise | Incorrect belt tension Spindle is dry Pulley is loose Bearing damaged | Adjust tension Disassemble spindle/quill and lubricate Tighten pulley Replace the bearing | |
| Excessive drill wobble | Chuck is loose Bearing or spindle shaft is worn Chuck is worn Drill fitted incorrectly or faulty | Refit the chuck (see 5.1.11) Replace worn part Replace the chuck Fit correctly or change drill | |
| Drill binds in the workpiece | Feed pressure is wrong Belt is loose Drill bit is loose Speed is too fast | Apply less pressure Adjust tension Tighten the chuck jaws with the key Change the speed | |
| Drill burns or smokes | Speed is too fast Chips are not discharging Drill bit is blunt Lubrication needed Feed pressure is wrong | Change the speed Clean the drill bit Use a new bit Lubricate while drilling Apply less pressure | |
| Table is difficult to raise/lower | 1. Lubrication is needed 2. Rack is bent | Lubricate with light oil Straighten the rack | |



Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

Important: No Liability is accepted for incorrect use of this product.

Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

Sealey Group, Kempson Way, Suffolk Business Park, Bury St Edmunds, Suffolk. IP32 7AR 01284 757500 01284 703534 🖗 sales@sealey.co.uk 🕥 www.sealey.co.uk