

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



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

1. SAFETY INSTRUCTIONS

1.1. ELECTRICAL SAFETY. ⚠ WARNING! It is the user's responsibility to read, understand and comply with the following: You must check all electrical equipment and appliances to ensure they are safe before using. You must inspect power supply leads, plugs and all electrical connections for wear or damage. You must ensure the risk of electric shock is minimised by the installation of appropriate safety devices. An RCCB (Residual Current Circuit Breaker) should be incorporated in the main distribution board. We also recommend that an RCD (Residual Current Device) is used with all electrical products. It is particularly important to use an RCD with portable products that are plugged into an electrical supply not protected by an RCCB. If in doubt consult a professional electrician. You may obtain a Residual Current Device by contacting your Sealey dealer. **You must** also read and understand the following instructions concerning electrical safety.

1.1.1. The **Electricity At Work Act 1989** requires all portable electrical appliances, if used on business premises, to be tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.

1.1.2. The **Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of those appliances, and the safety of appliance operators. **If in any doubt about electrical safety, contact a qualified electrician.**

1.1.3. Ensure the insulation on all cables and the product itself is safe before connecting to the mains power supply. See 1.1.1. & 1.1.2. above and use a Portable Appliance Tester (PAT).

1.1.4. Ensure that cables are always protected against short circuit and overload.

1.1.5. Regularly inspect power supply leads and plugs for wear or damage and connections to ensure that none is loose.

1.1.6. **Important:** Ensure the voltage marked on the product is the same as the electrical power supply to be used, and check that plugs are fitted with the correct capacity fuse. A 13 amp plug may require a fuse smaller than 13 amps for certain products (*subject to 1.1.10. below*).

1.1.7. DO NOT pull or carry the powered appliance by its power supply lead.

1.1.8. DO NOT pull power plugs from sockets by the power cable.

1.1.9. DO NOT use worn or damage leads, plugs or connections. Immediately replace or have repaired by a qualified electrician. Where a U.K. 3 pin plug with ASTA/BS approval is fitted, in case of damage, cut off and fit a new plug according to the following instructions (discard old plug safely). (UK only - see diagram at right). **Ensure the unit is correctly earthed via a three-pin plug.**

a) **Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.**

b) **Connect the BROWN live wire to the live terminal 'L'.**

c) **Connect the BLUE neutral wire to the neutral terminal 'N'.**

After wiring, check there are no bare wires, that all wires have been correctly connected, that the cable outer insulation extends past the cable restraint and that the cable restraint is tight.

Double insulated products are often fitted with live (BROWN) and neutral (BLUE) wires only. Double insulated products are always marked with this symbol . **To re-wire, connect the brown & blue wires as indicated above. DO NOT connect the brown or blue wires to the earth terminal.**

1.1.10. **NOTE:** If this product requires more than a 13 amp electrical supply, then **NO** plug is fitted. **You must** therefore contact a qualified electrician to ensure a 30 amp fused supply is available. We recommend you discuss the installation of a industrial round pin plug & socket with your electrician.

1.1.11. **Cable extension reels.** When a cable extension reel is used it should be fully unwound before connection. A cable reel with an RCD fitted is recommended since any product which is plugged into the cable reel will be protected. The section of the cores in the cable is important and should be at least 1.5mm², but to be absolutely sure that the capacity of the cable reel is suitable for this product and for others that may be used in the other output sockets, the use of 2.5mm² section is recommended.

1.2 GENERAL SAFETY

⚠ **WARNING! Disconnect drill from mains power before changing accessories, servicing or performing any maintenance.**

✓ Maintain the drill in good condition (use an authorised service agent).

✓ Replace or repair damaged parts. *Use genuine parts only. Non-authorized parts may be dangerous and will invalidate the warranty.*

✓ Locate the drill in a suitable working area, keep area clean and tidy and free from unrelated materials. Ensure there is adequate ventilation and lighting.

⚠ **WARNING! Keep all guards and holding screws in place, tight and in good working order. Check regularly for damaged parts. A guard or any other part that is damaged should be checked, before the tool is used, to ensure that it will operate properly and perform its intended function. The safety guard is a mandatory fitting where drill is used in premises covered by the Health & Safety at Work Act.**

✓ Check alignment of moving parts and check for possible broken parts.

✓ Ensure the set screws of the head frame are tight before using the drill.

✓ Secure the drill to the floor or bench to avoid the machine tipping, sliding or walking. Drill is designed for use with drill bits only.

✓ Ensure the chuck is securely fastened to the spindle and the drill bit is secure in the chuck.

✓ Remove adjusting keys and wrenches from the machine and working area before switching on.

✓ Use clamps or a vice (not included) to secure workpiece. These are available from your Sealey dealer. DO NOT secure workpiece by hand.

✓ Adjust the table or depth stop to avoid drilling into the table.

✓ Refer to speed chart for recommended drilling speeds.

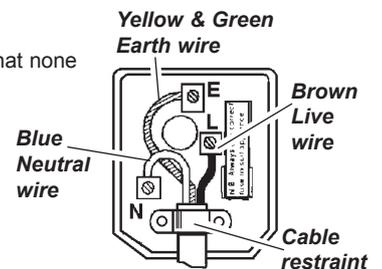
⚠ **WARNING! Always wear approved eye or face protection when operating drill. Use a face or dust mask if dust is generated. For large amounts of dust install a dust extraction system.**

⚠ **WARNING! DO NOT wear gloves when drilling.**

✓ Others in the workplace should keep a safe distance from the drill, especially when it is in operation.

✓ Keep the work area as childproof as possible by using padlocks and master switches.

✓ Keep drill bits clean and sharp for best and safest performance. Follow the instructions for lubrication and changing accessories.



REPLACEMENT FUSES MUST BE OF THE SAME TYPE AND RATING AS THE ORIGINAL

- ✓ Remove ill fitting clothing, ties, watches, rings and loose jewellery and contain long hair.
- ✓ Maintain correct balance & footing. Ensure the floor is not slippery. Wear non-slip shoes.
- ✓ Keep your hands and fingers clear of the drill and ensure the drill has stopped before removing the workpiece.
- ✓ Avoid unintentional starting.
- x **DO NOT** operate the drill if any parts are missing or damaged as this may cause failure and/or possible personal injury.
- x **DO NOT** use drill for task it is not designed to perform.
- x **DO NOT** allow untrained persons to operate the drill.
- x **DO NOT** get drill wet or use in damp locations or areas where there is condensation.
- x **DO NOT** use drill in an area where paint fumes, solvents or flammable liquids pose a potential hazard. Keep flammable material away 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.
- x **DO NOT** exceed the rated capacity of the drill.
- x **DO NOT** start the drill with the drill bit in contact with the workpiece.
- 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 **DO NOT** pull the cable from the power supply.
- ✓ When not in use switch the drill off, remove plug from the power supply and do not leave until the tool has come to a complete stop.

2. DESCRIPTION

The GDM92B (bench mounted) and GDM140F (floor mounted) variable speed drills are suitable for light industrial, agricultural and woodworking applications. The drills are fitted with flip-up safety guards and "No Volt Release" switches which prevent accidental restart after a mains power interruption. A rack and pinion feed shaft with preset depth control for repetitive work is also included. Both have Morse Taper Spindles to accept taper shank bits. Mortice attachment and work clamps are also available for these drills, contact your local Sealey dealer for information.

3. TECHNICAL SPECIFICATIONS

MODEL No:	GDM92B	GDM140F
Drilling Capacity (Chuck Size):	16mm	16mm
Spindle Nose Taper:	MT2	MT2
Swing:	314mm	314mm
Spindle centre to column:	127mm	127mm
Spindle travel:	60mm	60mm
Number of speeds:	12	12
Speed range:	210-2580rpm	210-2580rpm
Maximum Distance Spindle to Table:	370mm	780mm
Maximum Distance Spindle to Base:	480mm	1150mm
Working Table Surface size:	Ø250mm	Ø250mm
Working Base Surface size:	155 x 165mm	198 x 180mm
Overall Base Size:	340 x 210mm	420 x 250mm
Column diameter:	60mm	60mm
Collar diameter:	60mm	60mm
Overall Height:	840mm	1530mm
Motor Power:	220W - 230V	220W - 230V
Input Power:	370W - 230V	370W - 230V
Weight:	37kg	53kg
Optional Keyless Chuck 16mm:	GDMX/KC	GDMX/KC

4. CONTENT

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

- ✓ Head Assembly
- ✓ Column with Flange
- ✓ Rack and Rack Ring
- ✓ Pivoted Clamp Bolts (2 - table arm & bracket)
- ✓ Safety Guard
- ✓ Set Screws (2)
- ✓ Wedge
- ✓ Chuck and Key
- ✓ Adjusting Handle with Set Screw (table)
- ✓ Base
- ✓ Feed Handles and Knobs (3)
- ✓ Screw (upper pulley cover)
- ✓ Bolts (4)
- ✓ Table Arm, Bracket and Worm
- ✓ Hex. Keys (2)
- ✓ Arbor
- ✓ Table



GDM92B



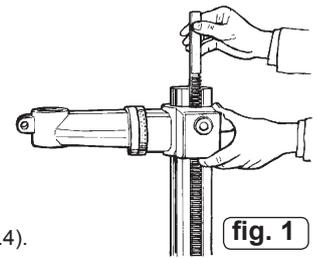
GDM140F

5. ASSEMBLY

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

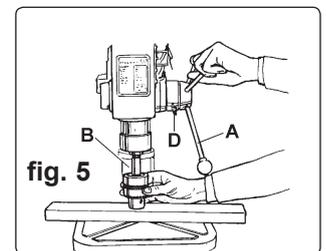
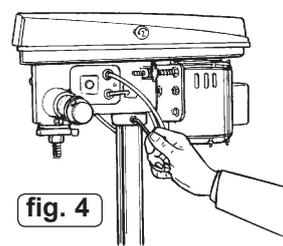
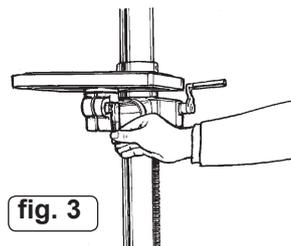
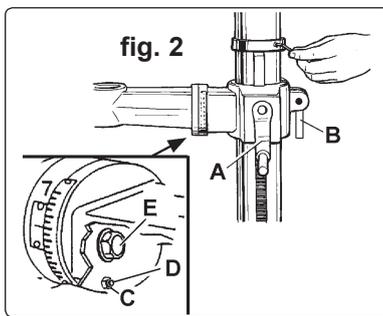
5.1. Assembly

- 5.1.1. Place the column assembly on the base, align holes and secure with the bolts provided.
- 5.1.2. Insert rack into table bracket (fig.1), engaging gear in table bracket with rack.
- 5.1.3. Install table bracket and rack onto column. Fit rack collar and tighten firmly (fig.2).
- 5.1.4. Install the table adjusting handle (fig.2.A) and pivoted clamp bolt (the longer of the two - fig.2.B).
- 5.1.5. Tighten the handle set screw (with the hex. key provided) and the bracket clamp bolt.
- 5.1.6. Install the table and table pivoted clamp bolt (fig.3).
- 5.1.7. Carefully place the head assembly over the column and slide it into position. Align head with base.
- 5.1.8. Fit the two set screws in the right side of the head to lock it into position and tighten with hex. key (fig.4).
- 5.1.9. Screw the three feed handles and knobs to the hub of the pinion shaft (fig.5.A).
- 5.1.10. To install chuck open the chuck jaws completely by turning the chuck key counter-clockwise. Place a piece of wood on the drill table (to prevent the chuck from getting damaged).
- 5.1.11. Insert longer tapered end of arbor (fig.5 B) into drill spindle, fit chuck to protruding end of arbor and hold in place.
- 5.1.12. Turn feed handles to bring nose of chuck down onto wood (fig.5). Firmly pull on feed handle to seat arbor taper 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 (see fig.7).



5.2. Drill mounting

- 5.2.1. **For stability and safety it is important** that the drill base is securely screwed or bolted to the workbench (GDM92B) or floor (GDM140F).
- 5.2.2. Ensure that the mounting surface is capable of supporting the drill together with the weight of the heaviest likely workpiece.



6. OPERATING INSTRUCTIONS

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

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). Once at required height tighten clamp bolt (fig.2.B)
- 6.2.2. To adjust table tilt, loosen nut (fig.2.C), remove '00' locking pin (fig.2.D) and loosen the work table bolt (fig.2.E), adjust to the desired angle using the angle scale, then retighten. Refit locking pin when table is returned to horizontal position.
- 6.2.3. To turn table around column loosen table bracket clamp bolt (fig.2.B) and turn table to the desired position. Retighten bolt. If table is difficult to turn loosen and **slightly** raise rack locating ring, retighten.

6.3. Adjusting the speed

- 6.3.1. Open the pulley case and loosen the belt tension lock screw (fig.6.A).
- 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

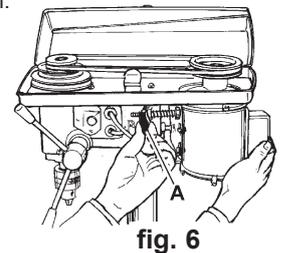
- 6.4.1. With the belt tension lock screw (fig.6.A) loose and using hand pressure on the motor, set tension so that belt give is no more than 1/2" (13mm). Tighten lock screw.

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. When the drill bit breaks through the workpiece, it will contact the wood and cause it to spin. Resting the wood against the column will help prevent this.
- 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

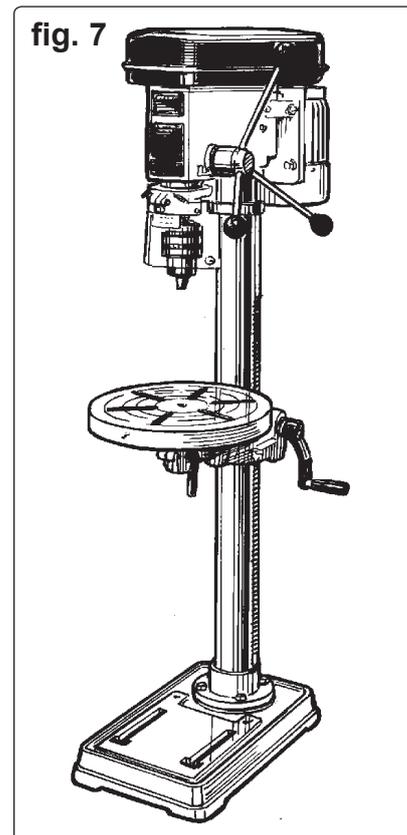
- 6.6.1. Use the scale on the side of the drill head near the drill handle.
- 6.6.2. Loosen locking screw (fig.5.D) and set the scale to the depth desired. Tighten locking screw.
- 6.6.3. When ready to drill, simply pull the feed handle. The drill will stop at the set depth.



7. DRILL SPEEDS

Drill Dia. (mm)	Drill Speed (rpm)			
	Steel	Cast Iron	Iron	Alum. & Copper
3	1580	2580	2580	2580
4	1350	2180	2180	2580
5	1290	1580	1580	2580
6	830	1350	1350	2580
7	830	1290	1290	2580
8	830	1290	1290	2580
9	540	830	830	2180
10	500	830	830	2180
11	500	830	830	1580
12	420	830	540	1580
13	420	540	540	1350
14	420	540	500	1350
16	320	500	500	1290
18	320	420	420	1290
20	280	320	320	1290
22	210	320	280	830
25	210	280	210	830

fig. 7



8. MAINTENANCE

- 8.1. Clean the tool after each use. A coat of automobile-type wax 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 all other moving parts.

9. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Excessive noise	<ol style="list-style-type: none"> 1. Incorrect belt tension 2. Spindle is dry 3. Pulley is loose 4. Bearing damaged 	<ol style="list-style-type: none"> 1. Adjust tension 2. Disassemble spindle/quill and lubricate 3. Tighten pulley 4. Replace the bearing
Excessive drill wobble	<ol style="list-style-type: none"> 1. Chuck is loose 2. Bearing or spindle shaft is worn 3. Chuck is worn 	<ol style="list-style-type: none"> 1. Tighten the chuck by pressing it against the table (see 5.2.12) 2. Replace worn part 3. Replace the chuck
Drill binds in the workpiece	<ol style="list-style-type: none"> 1. Feed pressure is wrong 2. Belt is loose 3. Drill bit is loose 4. Speed is too fast 	<ol style="list-style-type: none"> 1. Apply less pressure 2. Adjust tension 3. Tighten the chuck jaws with the key 4. Change the speed
Drill burns or smokes	<ol style="list-style-type: none"> 1. Speed is too fast 2. Chips are not discharging 3. Drill bit is dull 4. Lubrication needed 5. Feed pressure is wrong 	<ol style="list-style-type: none"> 1. Change the speed 2. Clean the drill bit 3. Use a new bit 4. Lubricate while drilling 5. Apply less pressure
Table is difficult to raise	<ol style="list-style-type: none"> 1. Lubrication is needed 2. Rack is bent 	<ol style="list-style-type: none"> 1. Lubricate with light oil 2. Straighten the rack

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 will be required for any claim.

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



Sole UK Distributor, Sealey Group,
Kempson Way, Suffolk Business Park,
Bury St. Edmunds, Suffolk,
IP32 7AR

01284 757500

www.sealey.co.uk

01284 703534

sales@sealey.co.uk