



Pillar Drills



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Declaration of Conformity

The undersigned, Authorised by Laizhou Light Industry Machinery Plant No. 989 Laizhou North Road, Laizhou, Shandong 261400, China declares that this product:

ZQJ4119-3 Drill Press

manufactured by Laizhou Light Industry Machinery Plant is in compliance with the following standards or standardisation documents in accordance with Council Directives

DIN EN 60204-1:1998-11 Machinery Directive 98/37/EEC, Annex 1 Amended 93/68/EEC

The undersigned, authorised by Laizhou Plant Machinery Co., Ltd 989 North Lasi Zhou Road Laizhou, Shandong declares that this product:

ZQJ4113,ZQJ4119K Drill Press

manufactured by Laizhou Plant Machinery Co. is in compliance with the following standards or standardisation documents in accordance with Council Directives

The undersigned, J. Waauthorised by Shandong Laizhou Light Industry Machinery Plant No. 989, North Lai Zhou Road Laizhou, Shandong 261400 P.R. China declares that this product

ZQJ4116Q Drill Press

manufactured by Shandong Laizhou Light Industry Machinery Plant is in compliance with the following standards or standardisation documents in accordance with Council Directives

> EN 55014-1: 1993+A1 EN 61000-3-2: 1995+A13 EN 61000-3-3: 1995 EN 55014-2: 1997 Declaration of Conformity Copied from CE Cer



Warning

The symbols below advise that you follow the correct safety procedures when using this machine.



Fully read manual and safety instructions before use



Ear protection should be worn



Eye protection should be worn



Two man assembly



HAZARD Motor gets hot

What's Included

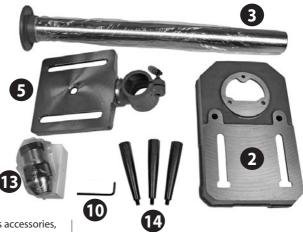
Quantity	ltem	Part	Model Number
Quantity	iteiii	rait	ModerNumber
1 No	ED16F2 Pillar Drill	A	Code: 505024
INO	ED16B2 Pillar Drill	В	Code: 700100
	ED16SB Pillar Drill	C	Code: 700100
	WD13L Pillar Drill	D	Code: 700101
	WD13E1 IIIdi D1III		Code: 7 000 9 9
Box Containing:			
1 No	Pillar drill head	1	
1 No	Base	2	
1 No	Drill pillar complete with mounting flange,		
	rise and fall rack and retaining ring	3	
1 No	Drill table mounting bracket arm	4	
1 No	Drill table	5	
1 No	Lever feed handle assembly	6	
1 No	Drill guard with Phillips screws	7	
1 No	Crank handle for table rise and fall mechanism	8	
Bag Containing:			
2 No	Motor yoke butterfly knobs	9	(700101 ONLY)
2 No	M8 x 20mm Hex bolt and washers		(700101 ONLY)
3 No	M8 x 20mm Hex bolt and washers		(700099 ONLY)
4 No	M10 x 25mm Hex bolts spring and plain washers	5	(505024 and 700100 ONLY)
1 No	3-5-6mm Hex keys	10	,
1 No	3mm Hex key	10	(700099 Only)
1 No	Morse taper arbor for the chuck	11	
1 No	Morse taper drift	12	
	Box containing 3-16mm B16 keyless chuck	13	1
	Box containing 13mm B16 keyless chuck (NOTE CHUCKS CAN VARY DEPENDING C	N MODEL))

3 No Lever feed handles 14 (700099 Only)









Having unpacked your machine and its accessories, please check the contents against the equipment list "What's Included", if there are any discrepancies, please contact Axminster Tool Centre using the procedures laid down in the catalogue.



PLEASE DISPOSE OF THE PACKAGING RESPONSIBLY; MUCH OF THE MATERIAL IS RECYCLABLE

The machine and its accessories will arrive coated with heavy corrosion preventative grease and greased wax paper or plastic wrapping. These will need to be cleaned from the machine, its components and accessories prior to it being set up and commissioned. Use water soluble de greaser to remove the barrier grease. Be warned, it will stain if you splash it on clothing etc.



WARNING! WEAR OVERALLS, RUBBER GLOVES AND EYE PROTECTION!

After cleaning, lightly coat the exposed metal surfaces of the machine with a thin layer of light machine oil. N.B If you used water soluble de greaser make sure you apply this thin film sooner rather than later.

Please read the Instruction Manual prior to using your new machine; as well as the installation procedure, there are daily and periodic maintenance recommendations to help you keep your machine on top line and prolong its life. Keep this Instruction Manual readily accessible for any others who may also be required to use the machine.

Work Place/Environment/Installation

Mains Powered Machines/ Primary Precautions

General Safety Instructions

These machines are supplied with a moulded 13 Amp. Plug and 3 core power cable. Before using the machine inspect the cable and the plug to make sure that neither are damaged. If any damage is visible have the machine inspected/repaired by a suitably qualified person. If it is necessary to replace the plug, it is preferable to use an 'unbreakable' type that will resist damage. Only use a 13 Amp plug, make sure the cable clamp is tightened securely. Fuse at 13 Amp. If extension leads are to be used, carry out the same safety checks on them, and ensure that they are correctly rated to safely supply the current that is required for your machine. It is also recommended that the power supply outlet is the switched type, and that the supply is switched off whilst plugging in, or unplugging the machine.

General Instructions for 230V Tools

Good Working Practices/Safety

The following suggestions will enable you to observe good working practices, keep yourself and fellow workers safe and maintain your tools and equipment in good working order.



WARNING! KEEP TOOLS AND EQUIPMENT OUT OF THE REACH OF YOUNG CHILDREN!

5 Continues Over...

What's Included

Work Place/Environment

Do not use when or where it is liable to get wet. If the machine is to be used outside and it starts to rain stop work and move it inside. If machine has got wet; dry it off as soon as possible, with a cloth or paper towel.

Do not use 230Va.c. powered machines anywhere within a site area that is flooded or puddled, and do not trail extension cables across wet areas.

Keep the machine clean; it will enable you to more easily see any damage that may have occurred.

Clean the machine with a damp soapy cloth if needs be, do not use any solvents or cleaners, as these may cause damage to any plastic parts or to the electrical components.

Keep the work area as uncluttered as is practical, this includes personnel as well as material.



WARNING! UNDER NO
CIRCUMSTANCES SHOULD
CHILDREN BE ALLOWED IN WORK

General Safety Instructions

It is good practice to leave the machine unplugged until work is about to commence, also make sure to unplug the machine when it is not in use, or unattended. Always disconnect by pulling on the plug body and not the cable.

Once you are ready to commence work, remove any tools used in the setting operations (if any) and place safely out of the way. Re-connect the machine. Carry out a final check e.g. check the drill bit is securely tightened in the machine, check you have the correct speed and function set, check that the power cable will not 'snag' etc.

Make sure you are comfortable before you start work, balanced, not reaching etc. If the work you are carrying out is liable to generate flying grit, dust or chips, wear the appropriate safety clothing, goggles, gloves, masks etc., If the work operation appears to be excessively noisy, wear ear-defenders. If you wear your hair in a long style, wearing a cap, safety helmet, hairnet, even a sweatband, will minimise the possibility of your hair being caught up in the

rotating parts of the machine, likewise, consideration should be given to the removal of rings and wristwatches, if these are liable to be a 'snag' hazard. Consideration should also be given to non-slip footwear, etc.

DO NOT work with cutting or boring tools of any description if you are tired, your attention is Wandering or you are being subjected to distraction. A deep cut, a lost fingertip or worse; is not worth it!

DO NOT use this machine within the designated safety areas of flammable liquid stores or in areas where there may be volatile gases. There are very expensive, very specialised machines for working in these areas, THIS IS NOT ONE OF THEM.

CHECK that drills are the correct type and size, are undamaged and are kept clean and sharp, this will maintain their operating performance and lessen the loading on the machine. Above all, OBSERVE.... make sure you know what is happening around you, and USE YOUR COMMON SENSE.

General Safety Instructions for Drilling Machines

- 1. Do not operate the machine without carrying out a preliminary inspection.
- 2. Check that the speed is correct for the planned operation, and the upper drive belt cover is closed and fastened secure.
- 3. Check the drill bit is the correct size and type, is correctly fitted and tightened in the chuck.
- 4. Make sure that the drillhead, the table bracket arm, the table tilt and the table swivel clamps are all locked before any drilling is attempted.
- 5. Do not attempt to carry out any drilling operation on material that has not been secured to the drill table, either by vise or clamp.
- 6. Remove any tools (chuck key, spanners etc), that

General Safety Instructions for Drilling Machines

may have been used in setting up operations and put them away in their correct stowage positions.

- 7. Try to arrange the drilling operation so that the drill tip does not come in contact with the table.
- 8. Always allow the drill to stop before removing drillings or swarf from around the job or the table.
- 9. NEVER remove 'flying' swarf strands from the drill whilst it is turning.
- 10. It is a good precaution to wear eye protection when drilling, especially using small drills, or very hard material that produces small chips.

- 11. It is not a good idea to wear gloves when operating a drill press.
- 12. After the job is completed, remove all tools and accessories from the machine, check that drill bits are still sharp and re-use able.
- 13. Clean the machine down thoroughly, including removing coolant or cutting compounds from the drill table.
- 14. Lightly coat all metal surfaces with a light oil coating.
- 15. Disconnect the machine from the supply. Secure the cable/plug clear of the floor.

Specification

Model	ED16F2
Code	505024
Rating	Trade
Power	650W 230V
Speed Range	120-2580 rpm
Throat	178mm
Chuck Cap/Type	3-16mm keyless
Chuck Travel	80mm
Max Chuck to Table	680mm
Max Chuck to Base	1,170mm
Diameter of Column	80mm
Table Size	290 x 290mm
Table Tilt	45° - 0 - 45°
Base Size	450 x 270mm
Overall L x W x H	710 x 350 x 1,645mm
Weight	88kg

Model	ED16B2
Code	700100
Rating	Trade
Power	650W
Speed Range	120-2580 rpm
Throat	178mm
Chuck Cap/Type	3-16mm keyless
Chuck Travel	80mm
Max Chuck to Table	310mm
Max Chuck to Base	510mm
Diameter of Column	80mm
Table Size	290 x 290mm
Table Tilt	45° - 0 - 45°
Base Size	450 x 270mm
Overall L x W x H	710 x 350 x 1,015mm
Weight	82kg

Model	ED16SB
Code	700101
Rating	Hobby
Power	370W
Speed Range	(5) 460-2890rpm
Throat	127mm
Chuck Cap/Type	16mm keyless
Chuck Travel	60mm
Max Chuck to Table	315mm
Max Chuck to Base	430mm
Table Size	200 x 200mm
Table Tilt	45° - 0 - 45°
Base Size	340 x 210mm
Overall L x W x H	310 x 520 x 840mm
Weight	37kg

Model	WD13L
Code	700099
Rating	Hobby
Power	250W
Speed Range	(5) 600 - 2,500rpm
Throat	105mm
Chuck Cap/Type	13mm keyless
Chuck Travel	50mm
Max Chuck to Table	215mm
Max Chuck to Base	370mm
Table Size	160 x 160mm
Table Tilt	45°-0-45°
Base Size	290 x 180mm
Overall L x W x H	240 x 470 x 735mm
Weight	20kg

Assembly

Assembly for ED16F2-ED16B2-ED16SB Pillar Drills

Please read through the section entitled illustration and parts description, to identify the parts quickly and easily.



WARNING! THE DRILLHEAD IS A HEAVY AND SUBSTANTIAL PIECE OF MACHINERY, YOU ARE ADVISED TO HAVE HELP TO LIFT IT CLEAR OF THE BOX AND FIT IT TO THE COLUMN.

For ED16SB ONLY (Motor Yoke Butterfly Clamps)

Place the drill head on upside down on the work bench and remove the two Hex bolts (A) from the drill head with a spanner, (see fig 1) place the Hex bolts safely aside in readiness for mounting the column to the base. Locate the two motor yoke butterfly knobs (9) and screw them into the threaded holes, (see fig 1)

Place the base (2) on the bench or (floor) and place the mounting flange of the column (3) onto the seating flange of the base, align the holes. Use the four Hex bolts and plain washers secure the column to the base (see fig 2). Loosen the socket grubs crew holding the cup chamfered retaining collar to the column (with the supplied Hex key), remove it and the rise and fall rack, put aside (see fig 3).

Take the drill table mounting bracket arm (4) and twist the worm drive shaft with your fingers such that the whole shaft protrudes from the casting and the worm gear itself is clear of the square recess in the main body of the casting (see fig 4).

Locate and fit the crank handle (8) to the shaft, ensuring that you tighten the grub screw onto the machined flat on the shaft. This will keep the worm gear in position (see figs 4-5). Pick up the rise and fall gear rack, identify the top and the bottom, (the rack gearing is cut asymmetrically, with the gear cut extending closer to the bottom), make sure you have the rack the right way up, as it will allow you to drive the drill table up and down over its full range (see fig 6).

Fit the rise and fall rack into the square recess in the mounting body casting, ensure that it is engaged with the pinion, (see figs 7-8) and lower the combined mechanism over the column (3). Allow

it to slide down the column until the rise and fall rack is located in the cup chamfer in the top of the mounting flange (see figs 9-10). Replace the cup chamfered retaining collar over the column and slide it down onto the top of the rack. Lock it in place with the grub screw, ensuring that it has captured the upper end of the rack securely, but not too tight that the rack can not be swivelled around the pillar (see fig 3).

Check that the bracket can be driven up and down the column and can swivel around the pillar. Locate the Bristol clamping handle at the rear of the bracket and tighten, (see fig 11) check it has 'pinched' up on the column and the bracket is immobile; both in it's up and down travel and swivel movement.

Fit the drill table (5), identify the Bristol clamping handle at the front of the bracket and tighten, (see fig 12) check it has 'pinched' up on the drill table spigot and the drill table is immobile.

CHECK the drill head, ensure that the two hex socket grub screws that lock the head in place on the column are withdrawn and will not foul on the column (3) when the head is fitted (see fig 13). Put the lower assembly you have just been working on in the designated position, make sure it is stable and lift the drillhead (1) over the column (3) and let it drop into place (see fig 14). Set the drill head approximately fore and aft and lock in position using the two caphead grub screws mentioned earlier. Check that the drillhead is immobile. Everything on the drilling machine is now secured.

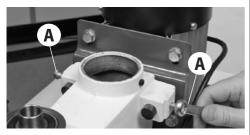
Once the drilling machine is correctly positioned and, if necessary, fastened down; you can proceed with the final assembly.

Locate the lever feed handle (6) and it's securing screw, **note the raised boss of the feed mechanism and the spigot next to it** (see fig 15). Mount the handle over the boss and ensure the spigot hole in the handle engages the spigot on the mechanism. Secure with the supplied caphead bolt and washer through the hole in the centre of the handle through to the tapped hole in the mounting boss (see fig 16).

Locate the guard moulding, shield and Phillips screws (7). Insert the shield into the guard moulding's recess and line up the three pre-drilled holes and secure with the Phillips screws (see fig 17-18).

Take the chuck guard and fit to the lower bearing flange of the quill mounting. Tighten the screw and nut fastening so that the drill guard is securely held in place (see fig 19).

Fig 01



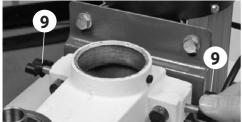


Fig 02

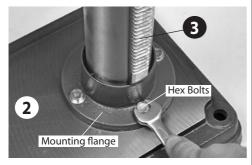


Fig 03

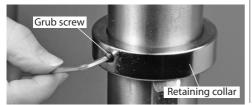


Fig 04

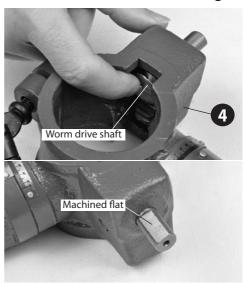
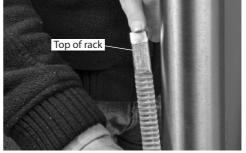


Fig 05



Fig 06-07-08



9 Continues Over...

Assembly

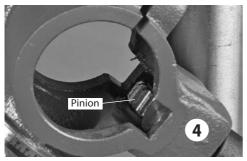
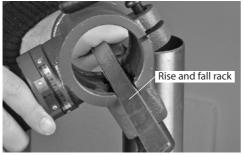




Fig 11



Bristol clamping handle

Fig 12





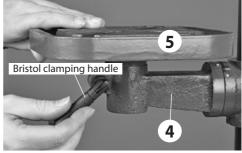


Fig 13

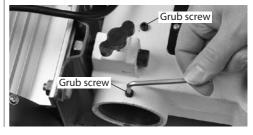


Fig 14





WARNING! THE DRILLHEAD IS A HEAVY AND SUBSTANTIAL PIECE OF MACHINERY, YOU ARE ADVISED TO HAVE HELP TO LIFT IT CLEAR OF THE BOX AND FIT IT TO THE COLUMN.

Fig 15

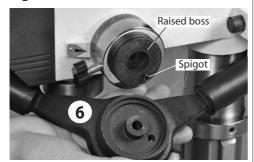


Fig 16



Fig 17-18





Fig 19



Fit the guard assembly to the lower bearing flange of the quill mounting, tighten the screw and nut so that the drill guard is securely held in place.

Morse taper arbor and chuck

Locate the morse taper arbor (11) and the B16 keyless chuck (13). Insert the arbor into the keyless chuck as shown in (fig 20). Insert the other end of the arbor (11) up into the lower bearing flange in the quill until the assembly locks in place, (see fig 21)

Assembly

Fig 20



Insert the arbor into the keyless chuck as shown

Fig 21



Insert the other end of the arbor up into the quill until the assembly locks in place

Assembly for WD13L Pillar Drill

Mounting the column

Place the mounting flange of the column (3) onto the seating flange of the base. Align the holes. Locate the two M8 Hex bolts you removed earlier from the drill head and the extra hex bolts and 8mm plain washers and secure the column to the base with a 13mm spanner, (see fig 22).

Fig 22



Table

Locate the table/support assembly and slide it down the column until it rests on the base plate. Insert the bristol clamping handle into the threaded hole to the side of the table casting, slide the table up the column to working height and clamp the table in position, (see figs 23-24).

Fig 23



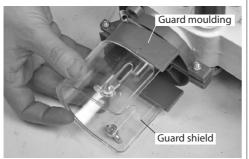
Fig 24

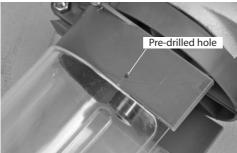


Guard shield

Locate the guard shield and Phillips screws (7). Insert the shield into the guard moulding's recess and line up the three pre-drilled holes and secure with the Phillips screws, (See figs 25-26

Fig 25-26





Line up the three pre-drilled holes and secure with the Phillips screws

Keyless chuck

Insert the keyless chuck (13) over the morse taper arbor as shown in (fig 27) and press home.

Fig 27



Lever feed handles

Locate the three lever handles (14) and screw them into the threaded holes on the feed shaft, (See fig 28)

Fig 28



Pillar drill head



WARNING! THE DRILLHEAD IS A HEAVY AND SUBSTANTIAL PIECE OF MACHINERY, YOU ARE ADVISED TO HAVE HELP!

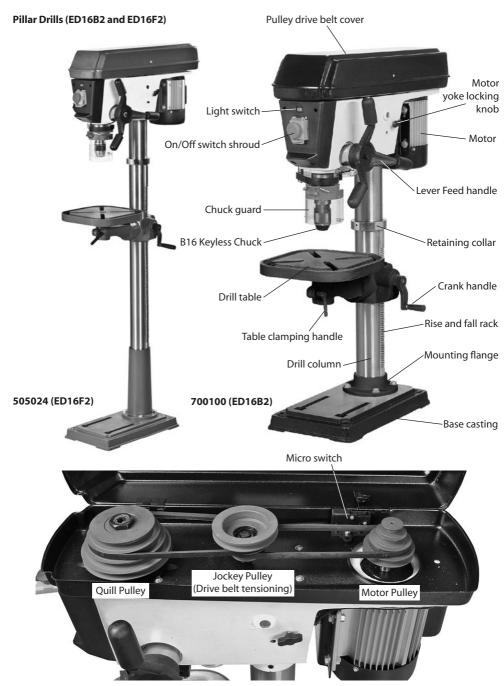
Using the 3mm Hex key loosen the two grub screws to the right side of the head, (see fig 29) lift the drill head above the column and let it drop into place.

Fig 29

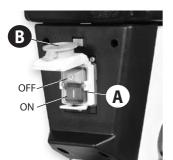


Set the drillhead approximately fore and aft and lock in position using the two caphead grub screws mentioned earlier.

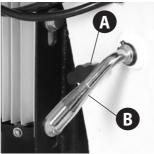
Check that the drillhead is immobile. Everything on the drilling machine is now secured, and if you now wish to move it to its preferred workplace, nothing should slew during the lift and move. Once the drilling machine is correctly positioned and fastened down, it is ready for use.



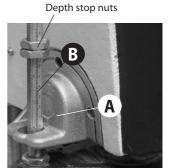
Pillar Drills (ED16B2 and ED16F2)



On/Off switch (A) Emergency stop button (B)



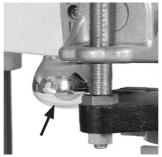
Motor yoke butterfly knob (A) Drive belt tensioning lever lock (B)



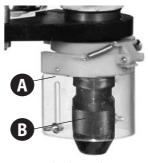
Depth stop assembly (A) Depth stop scale (B)



Pillar drill light switch



Pillar drill light



Chuck guard (A) Keyless chuck (B)



Quill lower bearing flange

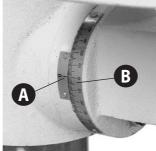


Table tilt pointer (A)
Table tilt scale (B)

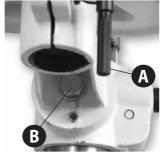
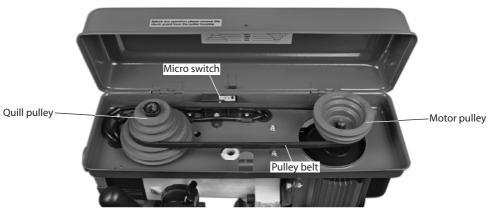


Table clamping handle (A) Table tilt clamping bolt (B)





Pillar Drill (ED16SB)



Motor yoke butterfly locking knob



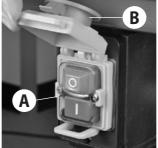
Drill table mounting bracket clamping handle



Table clamping handle



Table tilt clamping bolt



On/Off switch (A) Emergency stop button (B)

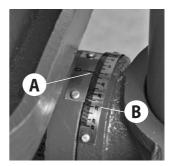
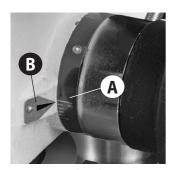


Table tilt pointer (A)
Table tilt scale (B)



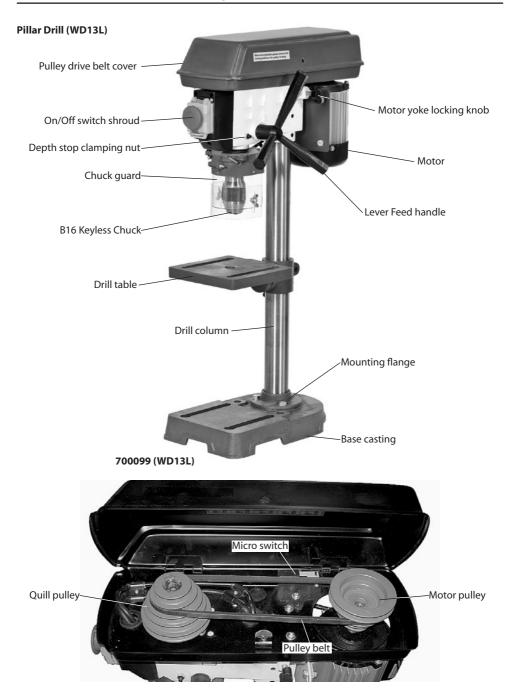
Depth scale (A) Depth scale pointer (B)



Depth stop butterfly clamp



Chuck guard



Pillar Drill (WD13L)



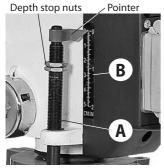
Drill table mounting bracket clamping handle



Motor yoke butterfly locking knob



Depth stop clamping screw/nut



Depth stop assembly (A) Depth stop scale (B)



Chuck guard assembly

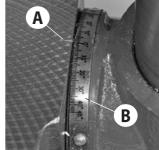


Table tilt pointer (A)
Table tilt scale (B)



WARNING! DISCONNECT THE PILLAR DRILL FROM THE MAINS SUPPLY BEFORE CONTINUING!

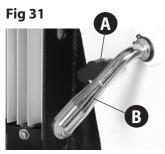
Remove the securing screw from the side of the pulley and drive belt cover, put carefully aside and raise the cover (See fig 30).

Fig 30



Pillar Drills (ED16B2 and ED16F2) Only

Locate and loosen the motor yoke butterfly locks (A). Locate the drive belt tensioning lever (B), (see fig 31) and turn it un-clockwise, to move the motor assembly "in". This will release the tension from the drive belts (See figs 32-33-34-35).



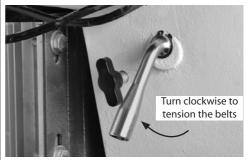
Refer to the (speed select table) and ascertain the belt positions for the speed you require. Move the belts to these positions.



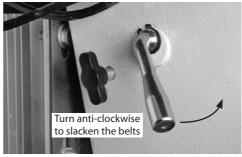
WARNING! TAKE CARE NOT TO TRAP YOUR FINGERS WHEN REPOSITIONING THE BELT ON THE PULLEYS!

Turn the pulley train to check the belts move freely. Tension the whole belt train by turning the drive belt

Fig 32-33-34-35







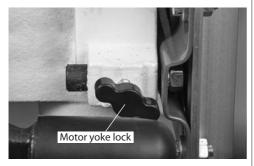


tensioning lever (B) clockwise, to move the motor assembly "out". Tighten the motor yoke butterfly knobs (A) to lock the motor assembly in position.

Pillar Drill (ED16SB) Only

To release the tension on (ED16SB) loosen the two motor yoke locks on either side of drilllhead, push the motor assembly up against the drillhead casting, thus releasing the tension on the pulleys, (See figs 36-37). Refer to the (speed select table) and ascertain the belt positions for the speed you require.

Fig 36-37







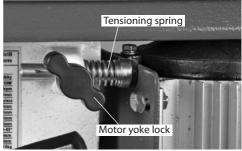
WARNING! TAKE CARE NOT TO TRAP YOUR FINGERS WHEN REPOSITIONING THE BELT ON THE PULLEYS!

Turn the pulleys to check the belts move freely. Tension the pulleys by pushing the motor assembly out and securing the motor yoke butterfly knobs to lock the motor assembly in position.

Pillar Drill (WD13L) Only

To release the tention loosen the motor yoke tensioning lock which loosens the tension on the spring, push the motor up against the drillhead casting, thus releasing the tension on the pulleys, (See fig 38).

Fig 38







WARNING! TAKE CARE NOT TO TRAP YOUR FINGERS WHEN REPOSITIONING THE BELT ON THE PULLEYS!

Turn the pulleys to check the belts move freely. Tension the pulleys by pushing the motor assembly out and securing the motor yoke butterfly knob to lock the motor assembly in position. Lower the belt and pulley cover carefully, (remember the micro switch) refit the securing screw and tighten.

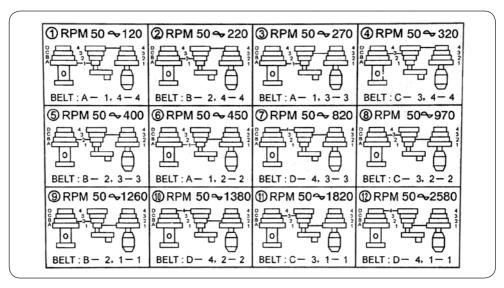


RE-CONNECT THE SUPPLY AND SWITCH ON. Check the drill runs smoothly, no hard vibration etc.

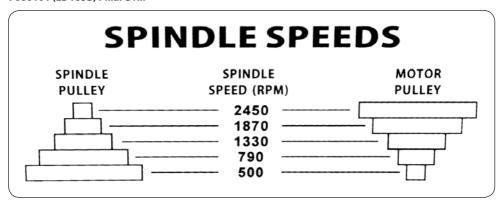
If all seems satisfactory, recommence drilling operations.

Speed Select Table

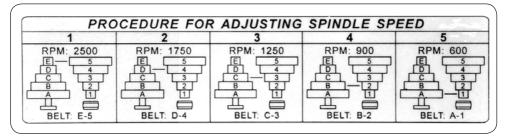
700100 (ED16B2)- 505024 (ED16F2) Pillar Drills



7000101 (ED16SB) Pillar Drill



700099 (WD13L) Pillar Drill



Removing the Chuck Assembly

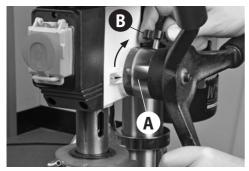
Preparation

You wil require the morse taper drift (12)

Pillar Drill (ED16SB) Only

Lower the quill to it's maximum depth by turning the feed lever handle. while holding the handle turn the depth scale ring (A) fully round and then tighten the butterfly depth stop knob (B) to lock the quill in position, (See fig 39)

Fig 39



Pillar Drill (ED16B2-ED16F2)

Place a piece of timber on the drill table to prevent the chuck from being damaged and lower the quill to it's maximum depth by turning the feed lever handle.

Removing the chuck

While holding the handle in place turn the chuck to line up the morse taper arbor (11) in the quills machined slot, (See fig 40). Insert the morse taper drift (12) in the quills slot, thus pushing the morse taper down and releasing the chuck, (See fig 41).

Fig 40

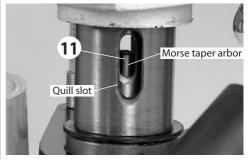
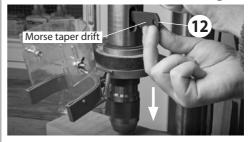


Fig 41





WARNING! DISCONNECT THE MACHINE FROM THE MAINS SUPPLY BEFORE CONTINUING!

Cleaning

Excessive dust in the motor can cause excessive heat to develop. Every effort should be made to prevent foreign material from entering the motor.

When operated under conditions likely to permit accumulations of dust, dirt or waste, a visual inspection should be made at frequent intervals. Accumulations of dry dust can usually be blown out successfully.

Caution: To avoid eye injury or adverse reaction to dust, high pressure hoses should not be used especially in poorly ventilated areas. The operator performing this cleaning function should wear safety goggles and dust filter mask.

After cleaning all dust and debris a light coating of machine oil on the quill then to spread the oil.

If the machine is going to stand idle for any length of time, a light coat of spray or machine oil over the column and table will prevent rusting.

Electrics



WARNING! DO NOT USE THE MACHINE IF THE POWER CABLE HAS BECOME DAMAGED

If any servicing (other than the above cleaning) becomes necessary the unit should be returned to Axminster tool centre to be repaired by one of our qualified electrician. Contact our technical sales department for further assistance.

Call 03332 406406
Email technical@axminster.co.uk



WARNING! DO NOT ATTEMPED TO REPAIR IT YOUR SELF CONTACT OUR TECHNICAL SALES TEAM FOR ASSSISTANCE!

Motor speed

The speed of the motor cannot be regulated or changed - no adjustment is necessary.

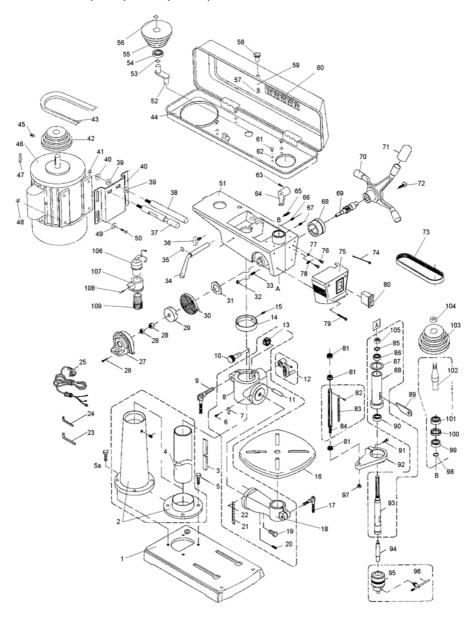








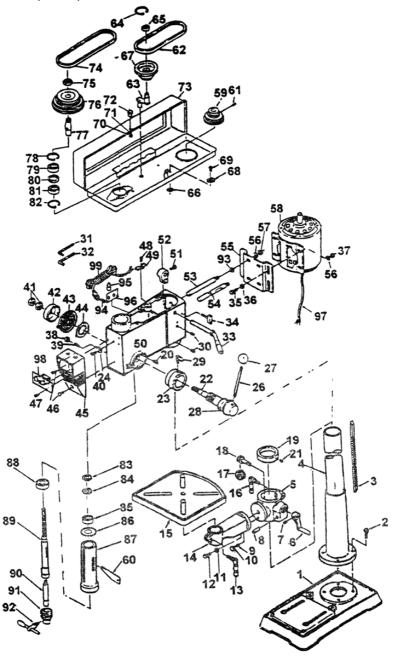
Pillar Drills 505024 (ED16F) 700100 (ED16B2)



Parts Breakdown/List

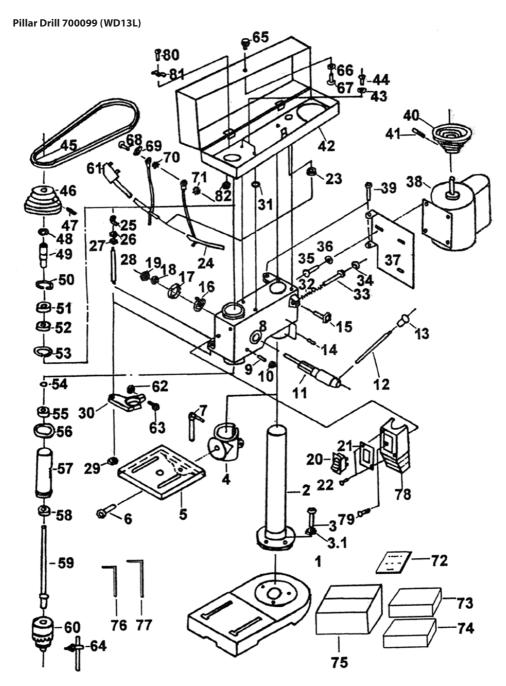
Pillar Drills	s 505024 (ED16F) 700100 ((ED16B2)			
	DACE	1	55	CENTER PULLEY	1
1	BASE COLUMN SHOULDER	1 1	56	C-CLIP	1
2	RACK	1	57	SCREW	1
3 4		1	58	KNOB	1
	COLUMN	4	59	WASHER	1
5	HEX BOLT SCREW	2	60	SPEED CHART LABEL	1
6	MARK	1	61	SCREW	4
7 8	TABLE BRACKET	1	62	WASHER	4
8 9	CLAMP BOLT	1	63	HEX BOLT	1
9 10	WORM GEAR	1	64	SHIFTER	1
10	SHAFT	1	65	SET SCREW	1
	HANDLE	1	66	SET SCREW	1
12 13	GEAR	1	67	SET SCREW	2
14	RACK RING	4	68	DEPTH RING	1
15	SET SCREW	1	69	FEED SHAFT	1
16	TABLE	1	70 71	HANDLE HANDLE COVER	1 1
17	TABLE BOLT	1	71	CAP BOLT	1
18	TABLE ARM BRACKET	1	72	V-BELT	1
19	HEX BOLT	2	73 74	SCREW	2
20	PIN	1	75	SWITCH BOX	1
20	MARK	1	75 76	SCREW	2
22	SCREW	2	77	WASHER	2
23	WRENCH 5mm	1	78	WASHER	1
24	WRENCH 3mm	1	76 79	SCREW	2
25	POWER CORD	1	80	SWITCH	1
26	SCREW	3	81	NUT	3
27	COVER	1	82	SCREW	2
28	NUT	2	83	SCALE	1
29	SPRING CAP	1	84	SCALE BASE	1
30	TORSION SPRING	1	85	CCLIP	1
31	SPRING COVER	1	86	BALL BEARING	1
32	NUT	1	87	RUBBER WASHER	1
33	SCREW SPECIAL SET	1	88	SPINDLE SLEEVE	1
34	SHIFTER BAR	1	89	WEDGE	1
35	C-CLIP	1	90	BALL BEARING	1
36	SLIDE BAR BOLT	2	91	CAP BOLT	1
37	SLIDE BAR	1	92	PLATE	1
38	SLIDE BAR	1	93	SPINDLE	1
39	WASHER	2	94	ARBOR	1
40	MOTOR BASE	2	95	CHUCK	1
41	NUT	2	96	CHUCK KEY	1
42	MOTOR PULLEY	1	97	NUT	1
43	V-BELT	1	98	CCLIP	1
44	PULLEY COVER	1	99	BALL BEARING	1
45	SET SCREW	1	100	SPACER	1
46	MOTOR	1	101	BALL BEARING	1
47	KEY	1	102	INSERT PULLEY	1
48	NUT	4	103	SPINDLE PULLEY	
49	WASHER	4	104	PULLEY NUT	1
50	HEX BOLT	4	105	NUT	1
51	BODY	1	106	LIGHT BODY	1
52	CENTER SHAFT	1	107	LIGHT BASE	1
53	C-CLIP	1	108	SCREW	1
54	BALL BEARING	1	109	LIGHT SCREW	1

Pillar Drill 700101 (ED16SB)



Pillar Drill 700101 (ED16SB)

PART	DESCRIPTION	QTY	PART	DESCRIPTION	QTY	PART NO	DESCRIPTION	QTY
1	Base	1	46	Bolt	4	91	Chuck	1
2	Bolt	4	47	Bolt	2	92	Key Chuck	1 .
3	Rack	1	48	Bolt	1	93	Washer	2
4	Column	1	49	Clamp Cord	1	94	Screw	2
5	Table Bracket	1	50	Body	1	95	Connector wire	2
в	Handle	1	51	Bolt	1	96	Cover	1
7	Headless Set Screw	1	52	Shifter	1	97	Wire	1
8	Shaft	1	53	Slide Bar	1	98	Witch	1
9	Pin	1	54	Slide Bar	1	99	Plug	1
10	Nut	1	55	Motor Base	1		,	
11	Washer	1	56	Washer	2			
12	Bolt	1	57	Nut	2			
13	Table Boit	1	58	Motor	1			
14	Table Arm Bracket	1	59	Motor Pulley	1			
15	Table	1	60	Wedge	1			
16	Clamp Boit	1	61	Headless Screw	1			
17	Gear	1	62	V-Belt	1			
18	Warm Gear	1	63	Center Shaft	1			
19	Rack Ring	1	64	Circles For Hole	1			
20	Pin Stop	1	65	Bail Bearing	2	r 3.		
21	Headless Set Screw	1	66	rubber Washer	4	will the		
22	Feed Shaft	1	67	Center Pulley	1			
23	Scale Ring	1	68	Washer	4			
24	Washer	1	69	Screw	4			
25	Handle Body	1	70	Screw	1			
26	Handle	3	71	Washer	1			
27	Knob	3	72	Knob	1			
28	Staff Gauge	1	73	Pulley Cover	1			
29	Silde Bar Boit	1	74	V - Beit	1			
30	Headless Set Screw	1	75	Pulley Nut	1			
31	Key Hexagon Screw	1	76	Spindle Pulley	1			
32	Key Hexagon Screw	1	77	Insert Pulley	1			
33	Shifter Bar	1	78	Circles For Hole	1			
34	Slide Bar Bolt	2	79	Ball Bearing	1			
35	Boit	4	80	Spacer	. 1			
36	Washer	4	81	Ball Bearing	1			
37	Nut	4	82	Circles For Hole	1			
38	Nut	1	83	Round Nut	1			
39	Screw Special Set	1	84	Thrust Bearing	1			
40	Bolt	1	85	Ball Bearing	1			
41	Nut	2	86	Rubber Washer	1			
42	Spring Cap	1	87	Spindle Sleeve	1			
43	Spring Torsion	1	88	Bail Bearing	1			
44	Spring Cover	1	89	Spindle	1			
45	Switch box	1	90	Arbor	1			



Pillar Drill 700099 (WD13L)

PART NO.	DESCRIPTION	Q'TY	PART NO.	DESCRIPTION	Q'TY
1	Base	1	42	Pulley Cover	1
2	Column	1	43	Washer	4
3	Bolt	3	44	Screw	4
3-1	Washer	3	45	V-Belt	1
4	Clamping Sleeve	1	46	Spindle Pulley	1
5	Table	1	47	Headless Set Screw	1
6	Bolt	1	48	Retain Ring	1
7	Clamping Lever	1	49	Internal Spline Sleeve	1
8	Body	1	50	Retaining Ring	1
9	Headless Set Screw	1	51	Ball Bearing	1
10	Nut	1	52	Ball Bearing	1
11	Feed Shaft	1	53	Retaining Ring	1
12	Handle Bar	3	54	Retaining Ring	1
13	Knob	3	55	Ball Bearing	1
14	Headless Set Screw	2	56	Collar	1
15	Shifter Bar	1	57	Spindle Sleeve	1
16	Spring Seat	1	58	Ball Bearing	1
17	Spring Cap	1	59	Spindle	1
18	Nut	1	60	Drill Chuck	1
19	Nut	1	61	Plug	1
20	Switch	1	62	Nut	1
21	Clamping Sheet	1	63	Bolt	1
22	Screw	2	64	Chuck Key	1
23	Bush	2	65	Handle	1
24	Wire	1	66	Washer	1
25	Pointer	1	67	Screw	1
26	Nut	1	68	Screw	1
27	Nut	1	69	Grounding Symbol	1
28	Limit Bolt	1	70	Washer	1
29	Nut	1	71	Washer	1
30	Heel Block	1	72	Manual	1
31	Rubber Washer	1	73	Upper-Inner Carton	1
32	Spring	1	74	Lower-Inner Carton	1
33	Slide Bar	1	75	External Carton	1
34	Rubber Pad	1	76	Hex Key 3mm	1
35	Bolt	3	77	Hex Key 4mm	1
36	Washer	3	78	Switch Box	1
37	Motor Base	1	79	Screw	2
38	Motor	1	80	Screw	2
39	Bolt	2	81	Wire Clamps	2
40	Motor Pulley	1	82	Nut	2
41	Headless Set Screw	1			



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local recycling centre and place into the appropriate recycling bin.

Only for EU countries



Do not dispose of electric tools together with household waste material. In observance of European Directive 2002/96/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.