



Woodworking machinery at its best!

8" x 5" PLANER THICKNESSER OWNERS MANUAL

MODEL: W588



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GENERAL SAFETY RULES



WARNING: Do not attempt to operate the machine until you have read thoroughly and understood completely all instructions, rules, etc. contained in this manual. Failure to comply may result in accidents involving fire, electric shock, or serious personal injury. Keep this owner's manual and review frequently for continuous safe operation.

1. Know your machine. For your own safety, read the owner's manual carefully. Learn its application and limitations, as well as specific potential hazards pertinent to this machine.
2. Make sure all tools are properly earthed.
3. Keep guards in place and in working order. If a guard must be removed for maintenance or cleaning, make sure it is properly replaced before using the machine again.
4. Remove adjusting keys and spanners. Form a habit of checking to see that all keys and adjusting spanners are removed from the machine before switched it on.
5. Keep your work area clean. Cluttered areas and workbenches increase the chance of an accident.'
6. Do not use in dangerous environments. Do not use power tools in damp or wet locations, or expose them to rain. Keep work areas well illuminated.
7. Keep children away. All visitors should be kept a safe distance from the work area.
8. Make workshop childproof. Use padlocks, master switches and remove starter keys.
9. Do not force the machine. It will do the job better and be safer at the rate for which it is designed.
10. Use the right tools. Do not force the machine or attachments to do a job for which they are not designed. Contact the manufacturer or distributor if there is any question about the machine's suitability for a particular task.
11. Wear proper apparel. Avoid loose clothing, gloves, ties, rings, bracelets, and jewellery which could get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
12. Always use safety glasses. Normal spectacles only have impact resistant lenses. They are not safety glasses.
13. Do not over-reach. Keep proper footing and balance at all times.
14. Maintain the machine in good condition. Keep the machine clean for best and safest performance. Follow instructions for lubrication and changing accessories.

15. Disconnect the machine from power source before servicing and when changing the blade.
16. Never leave the machine running unattended. Turn the power off. Do not leave the machine until it comes to a complete stop.
17. Do not use any power tools while under the effects of drugs, alcohol or medication.
18. Always wear a face or dust mask if operation creates a lot of dust and/or chips. Always operate the tool in a well ventilated area and provide for proper dust removal. Use a suitable dust extractor.

ADDITIONAL RULES FOR PLANER/THICKNESSERS

1. This machine is designed for use with wood. Attempting to plane or thickness any other materials will result in damage to the machine, potential fire risk and/or health hazards.
2. The machine is designed for indoor use only.
3. Connection to a suitable dust extraction system is highly recommended. If you must use the machine on its own, you will need to stop it, unplug it from the mains and thoroughly clean it at regular intervals. Continuing to use the machine when it is clogged with shavings will result in damage to it, potential fire risk and/or health hazards.
4. The machine should be bolted to a bench or suitable stand.
5. Always hold the work firmly on to the table, using the push pads provided.
6. Never use the planer/thicknesser with the guard and/or dust hood removed.
7. If planing or thicknessing a long piece of timber, provide additional support at the same height as the table.
8. Switch the machine off and unplug it before removing any debris.
9. Be aware of the possibility of kickback.
10. Do not modify this machine in any way or use it or anything other than its designated purpose. Neither the manufacturer nor the suppliers will be liable for any damage or injury caused by incorrect assembly, operation or electrical connection of this machine.



Risk of Injury!
Never reach into
a running cutterblock



**Eye
Protection**



**Ear
Protection**

Rating Description

Hobby: Suitable for Weekend DIY'ers and woodworking enthusiasts.

Generally lighter weight machines with lower power ratings and smaller tooling capacities. Typically only ever used by one person for short periods of time or longer periods of time infrequently. Machinery should be well maintained in a clean, dry environment such as a home workshop, garage or timber shed. **Expected maximum use of 100 hours annually.**

Please Note: Using a product in excess of its rating will void the manufacturer's free warranty.

Charnwood W588 Specification

Voltage and frequency	240V at 50hz.
Motor (induction)	1500w (2hp)
Planer width	200 mm
Maximum planing cut	3 mm
Work Table	740 mm x 210 mm
Table height	360 mm
Fence tilt	0 to 45°
Max thicknessing cut	2mm
Max thicknessing capacity	5 to 125mm
Feed speed	8 m/mim
Number of blades	2
Cutter block rotation	8,000 rpm
Dimensions (WxDxH)	790mm x 420mm x 470mm
Weight	28kg
Rating	Hobby
Warranty	1 Year

Unpacking



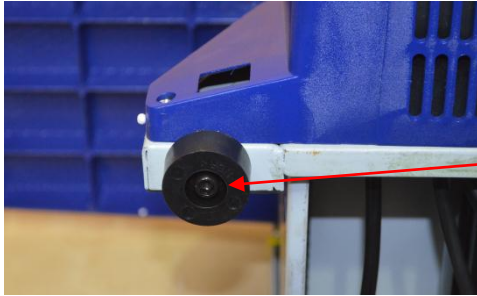
Open the top of the carton, invert it, ensuring that all four flaps are to the outside and lift the carton off the packaging material. Separate the polyfoam shells, carefully unpack all of the contents and lift the machine onto a bench.



Lay out the parts and familiarise yourself with them. Read the manual.

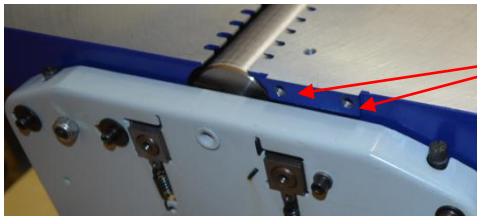
Please do not dispose of the packaging until you have fully assembled and tested the machine. In the unlikely event there is a fault, you will need to re-use the packaging.

Assembly

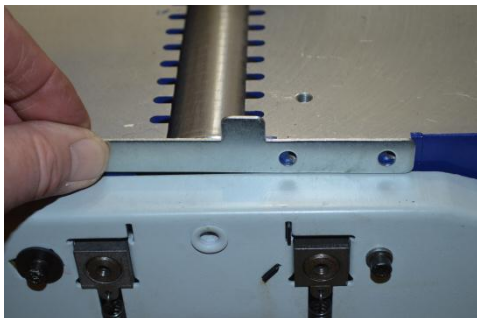


Remove the protective paper from the aluminium table and clean with a degreaser, such as WD-40

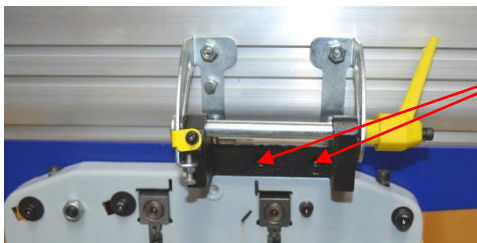
Attach the four feet to the underside of the planer/thicknesser, using the cap head screws and washers provided.



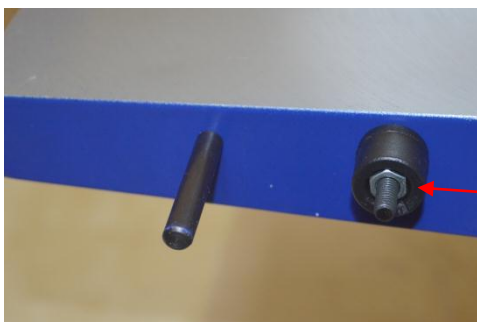
Place the machine on its feet and locate the two tapped holes on the rear edge of the table



Position the shallow-tee shaped piece of metal so that the holes line up with those in the table edge.

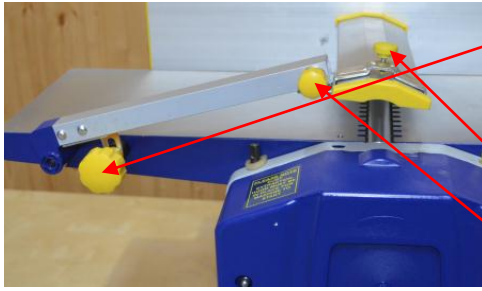


Fit the fence to the table using the two long cap head bolts and washers provided.



These protrusions are located on the front edge of the out-feed table (left hand), with the machine facing you.

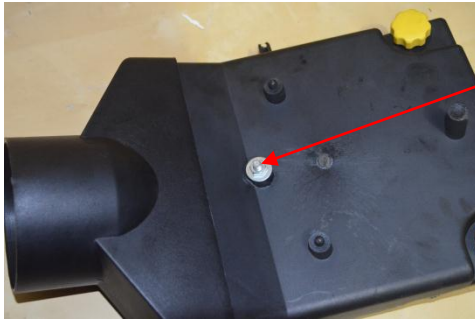
You may need to tighten this nut but do not overdo it. Firm finger tightness is sufficient.



Slide the hole at the end of the bridge guard support arm over the pivot shaft and secure the guard by screwing the large yellow knob onto the threaded spindle. This knob is used to lock the arm at the desired angle.

The bridge guard slides sideways and can be locked in place with this knob.

The angle of the bridge guard can be adjusted with the yellow knob on the side of the arm.



This guard and extraction outlet must be fitted onto the thickening table during planing operations.

Before putting it in place, take note of the three plastic feet and the protruding bolt and nut.



Ensure the thickening table is wound all the way down.

The guard should be inserted so that the bolt fits into this hole in the thickening bed.

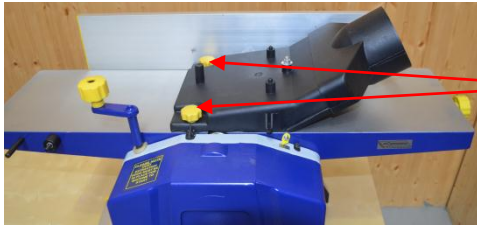
Please Note: If the guard is not located correctly, an interlock switch will prevent the machine from running.



Once inserted, the guard should be secured in place by raising the thickening bed.

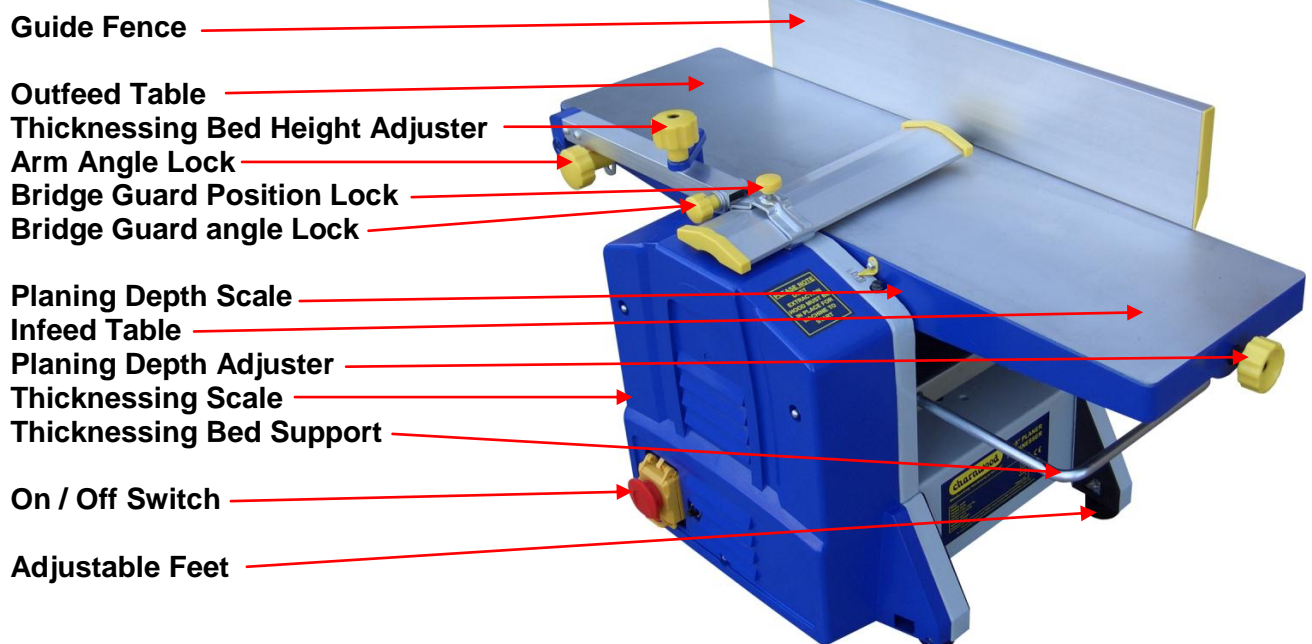


To raise the thickening bed insert the crank handle into the recess to the side of the outfeed table. Turn clockwise to raise the bed, an audible 'click' can be heard as the interlock switch is activated by the guard.



For thickening operations, the guard is fixed on top of the tables, as show. It is secured by screwing the two yellow knobs into two threaded holes in the table. Again, an audible 'click' can be heard as the interlock switch is activated by the guard.

Using the Planer Thicknesser



Starting And Stopping

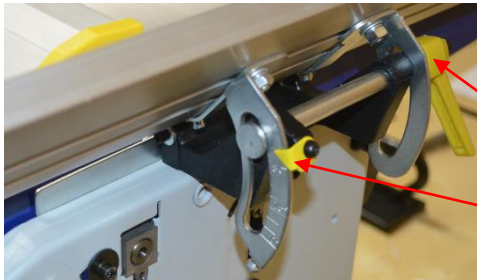
Slide the red section upwards and then lift the hinged cover. This will give you access to the green start and red stop buttons. Pressing the red section of the cover will stop the machine.

To turn on, press the green button. Wait for the knives to reach their maximum speed of rotation before commencing with the cut.

The machine is fitted with an NVR (No Voltage Release) switch. This type of switch is designed so that if the machine is disconnected from the mains whilst running and then reconnected, the motor will not automatically restart.

Planing Function

Fit the guard and extraction outlet onto the thicknessing table and lock it into place.



Set The Angle Of The Guide Fence

The guide fence can be set to any angle from 90 degrees to 45 degrees. There are pre-set stops for those two positions.

The guide fence is locked and unlocked by using this lever.

Any other angle can be set by reading off the scale.

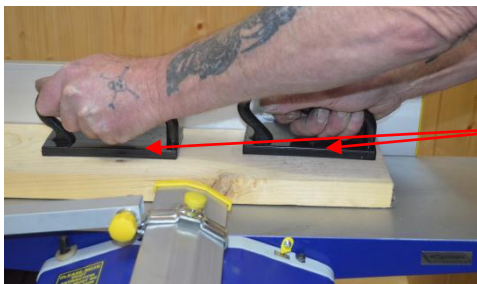


Set The Depth Of Cut

Turn the yellow knob, located on the end of the infeed table, clockwise to decrease the depth of cut.

The scale shows increments from 0mm to 3mm.

As a general rule, it is recommended to set the depth at 1mm and if necessary make 2 or 3 passes until the desired result is achieved.



Position the bridge guard so that it covers any exposed part of the cutterblock as shown.

Use the push pads supplied with the machine to hold the work piece firmly down against the table and to feed the work piece over the cutterblock onto the out-feed table.

When working with very thin material, set the bridge guard all the way across the cutterblock. Set the height of the bridge guard, so that the work piece can pass underneath.

Thicknessing Function

Fit the guard and extraction outlet onto the planning tables and secure in place.



Use the crank handle to adjust the height of the thicknessing bed to match the work piece.

The maximum depth of cut when thicknessing is 2mm. A feed height restrictor bar prevents a cut of more than 2mm being made.

Standing in front of the machine, as shown on the left, hold the work piece so it is flat against the bed and gently push forward. Release the work piece when you will feel the drive roller take hold and feed it past the cutters.

Move around to the other end of the machine to

support the piece by hand as a second drive roller feeds it out.

Repeat as many times as necessary to achieve the required dimensions of the piece. Each time, rotate the crank handle clockwise one turn to raise the bed by 2mm, or read the actual dimension off the scale.



The out-feed end of the thicknesser bed has a pull out support that can be extended to support the work piece as it emerges.

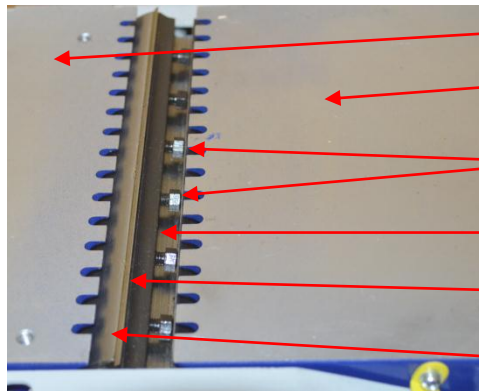
General Guide

When faced with a rough sawn piece of timber which requires planing on all 4 sides and taking down to a specific finished dimension, follow this guide:

- Set the machine up for planing.
- Identify the flattest of the two wider faces on the timber. (Face 1 on diagram)
- Pass that side over the planer as many times as necessary until a flat and smooth finish is achieved.
- Hold the planed side firmly against the guide fence (set at 90 degrees to the bed) and pass the narrow side (Face 2 on diagram) over the planer as many times as necessary until a flat and smooth finish is achieved.
- You should now have two planed sides at 90 degrees to each other.
- Set the machine up for thicknessing.
- Pass the timber through the thicknesser with the wider already planed side (Face 1 on diagram) facing down against the bed. Continue until the desired thickness for the timber is reached.
- Finally, pass the timber through the thicknesser with the planed narrow side (Face 2 on diagram) facing down against the bed. Continue until the desired thickness for the timber is reached.



Knife Removal and Replacement



Out-feed table

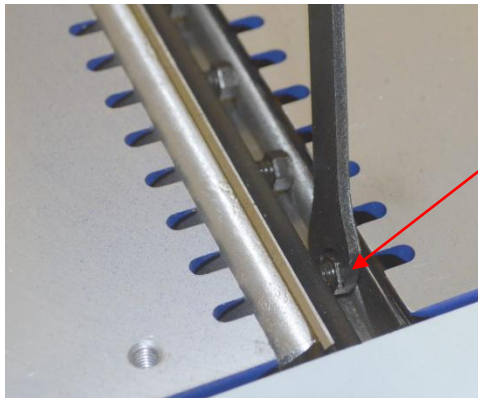
In-feed table

Locking bar bolts

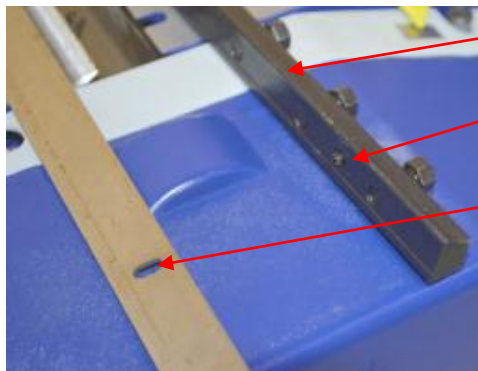
Locking bar

Knife

Cutter block



Using the 8mm spanner provided, turn the bolts clockwise so that you screw them into the locking bar. When you have done this with all 6 of them, you may lift out the locking bar and knife. Be aware that there are two small springs underneath the knife. Remove it slowly so that you do not lose these.

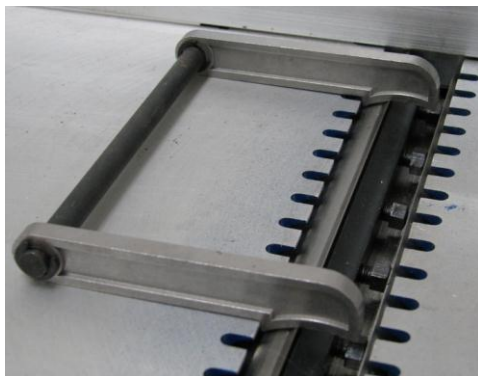


Locking bar

There are two pins in the back of the locking bar which engage with the slots in the blade.

Blade slot

The springs are used to lift the knife as part of the knife setting process. Fit the replacement knife, by locating it onto the pins on the back of the locking bar. Ensure the two springs are in place.



Place the blade setting gauge on the out-feed table with the curved section sitting over the blade and cutter block. Press down until the setting gauge sits flat on the table. In this way the blade will be set at the correct height, being pushed up against the gauge by the springs. Tighten the locking bar, starting with the two outer bolts, then the inner bolts. Ensure it is firmly locked in place.

Repeat these steps for the second knife. Check that the blades do not foul the edge of the table.

Troubleshooting

Problem	Cause	Remedy
Machine does not start	Blown Fuse	Replace Fuse
	Loose switch terminal	Inspect back of switch
	Faulty switch	Replace switch
	Guard not fitted	Re-fit the plastic guard ensuring it connects with the interlock switch
Only starts when Green button is held down	Faulty switch	Replace switch
Machine runs intermittently	Worn carbon brushes in motor	Replace motor brushes
Motor running but cutterblock is not rotating	Broken or stretched drive belt	Replace drive belt
Motor slows down during the cut	Depth of cut is too great	Take a smaller cut
	Dust & Chip collector hood is blocked	Clear the blockage and ensure the extractor is functioning correctly
	Planing knives are blunt	Replace or sharpen knives
Excess Vibration	Planing knives out of balance	Reset the height of the knives


Declaration of Conformity for CE Marking

Charnwood Declare that Woodworking Planer & Thicknesser, Model W583

Conforms with the following Directives: Machinery Directive 2006/42/EC
 Low Voltage Directive 2006/95/EC

And further conforms to the machinery example for which the EC type examination Certificate No. BM 50174252, AN 50174251 have been issued by TUV Rheinland LGA Products GmbH, Tillystrasse 2, 90431, Nurnberg.

I hereby declare that equipment named above has been tested and found to comply with the relevant sections of the above referenced specifications. The machinery complies with all essential requirements of the directive.

Signed:  Dated: 14/04/2010 Location: Leicestershire

Richard Cook, Director



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 amenity tip and place into the appropriate recycling bin.



Only for EU countries

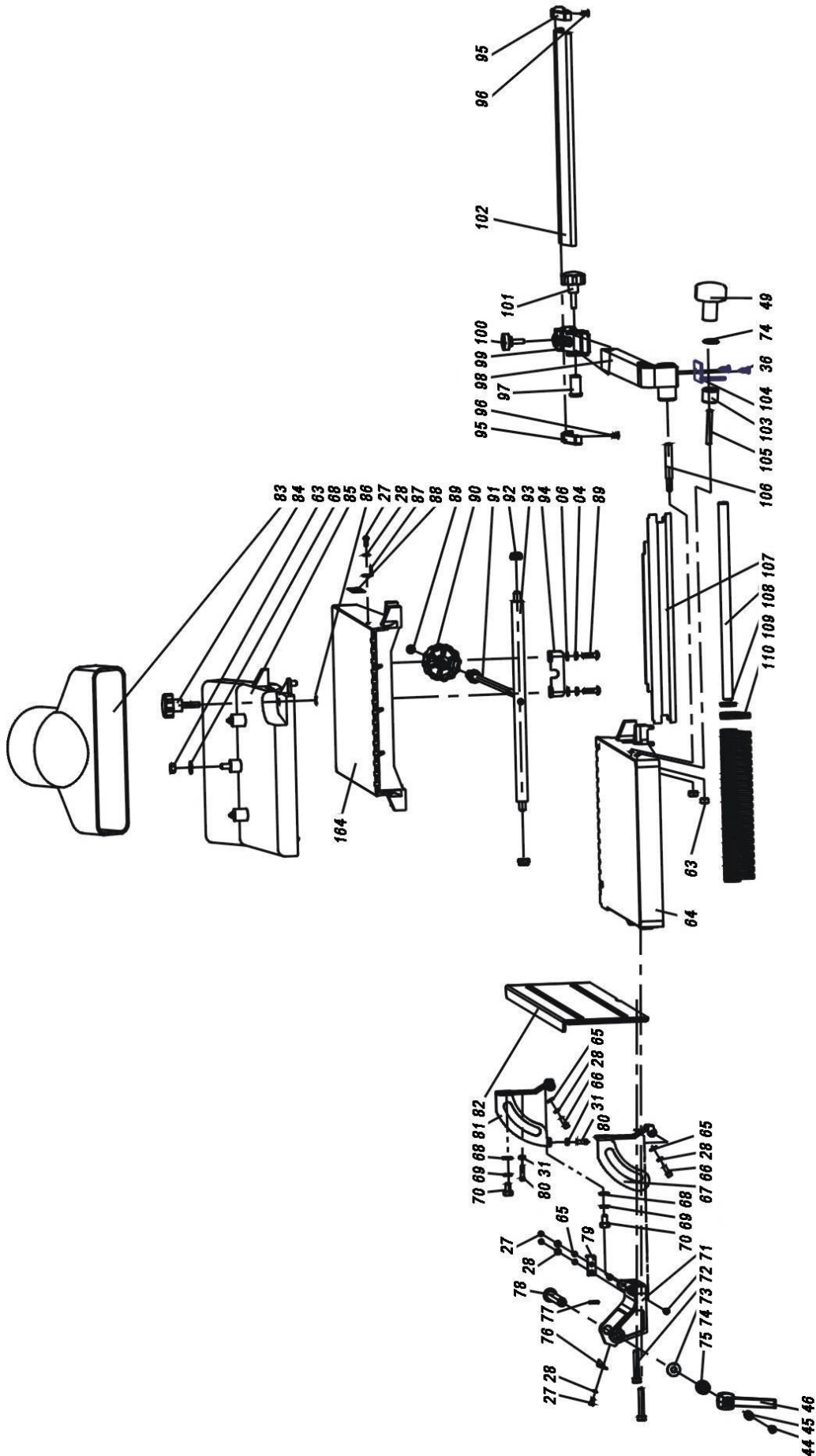
Do not dispose of electric tools together with household waste material!

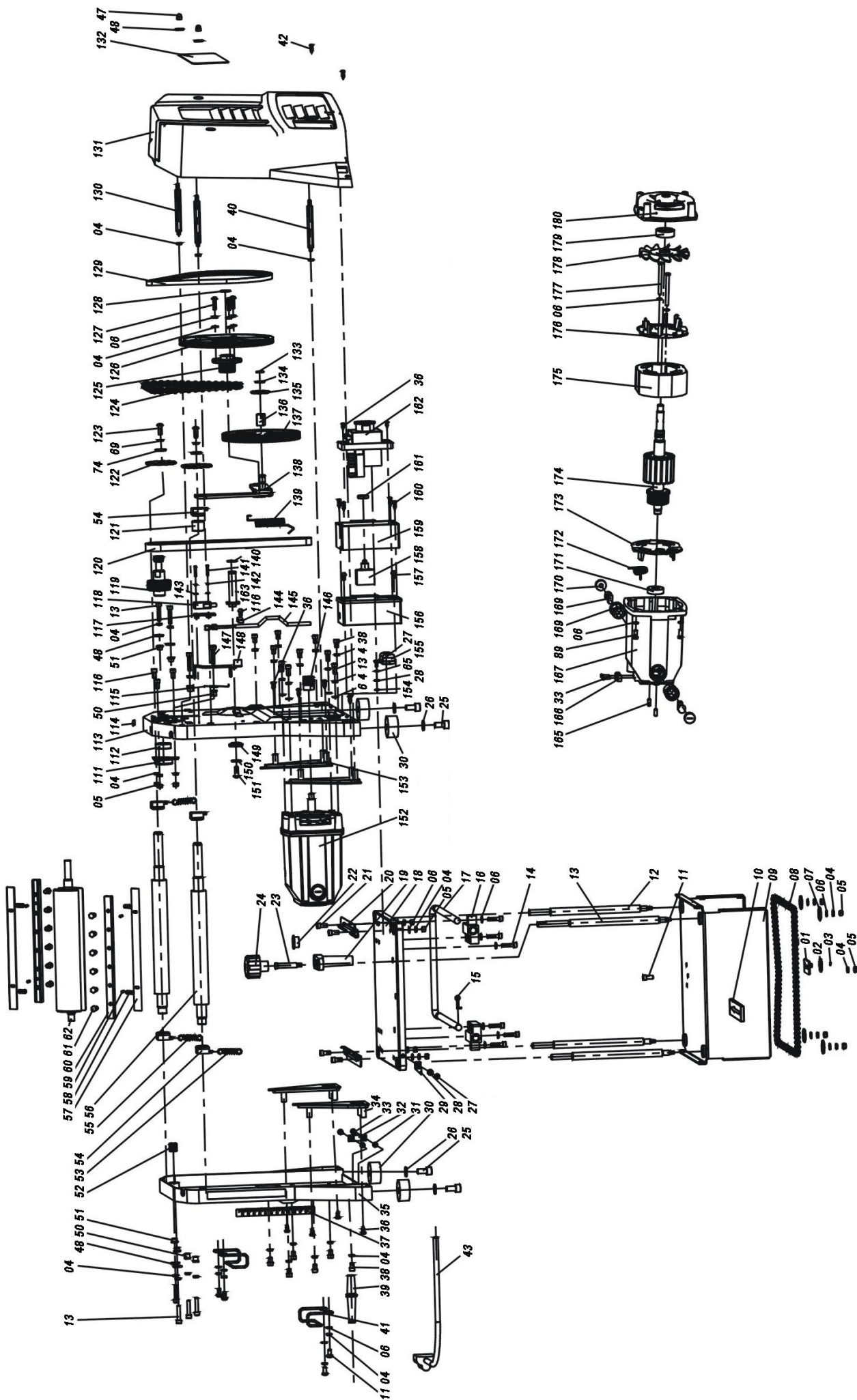
In observance of European Directive 2002/96/EC on waste electrical and electronic equipment (EEE) and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

Your local refuse amenity will have a separate collection area for EEE goods



Charnwood W588 Parts Diagram





Charnwood W588 Parts List

Part No	Description	Part No	Description
1	Chain tensioning rivet	46	Lock Bolt Components
2	Chain tensioner	47	Cap Nut M5
3	Open Collar 6	48	Big Flat Washer 5
4	Spring washer 5	49	Coupling Stud
5	Nut M5	50	Locating Bush Fixed Workbench
6	Flat Washer 5	51	Locating Bush Moving Workbench
7	Adjustable Chain Wheel	52	Nail Bearing K10x13x13
8	Chain 2 (p=8)	53	Block Tension Spring(B)
9	Positioning table rivet	54	Block
10	Press & shaving material sign	55	Block Tension Spring
11	Hexagon bolt M5 x 12	56	Roller Component
12	Negative Leading screw	57	Planer Blade
13	Active Leading screw	58	Planer Blade Spring
14	Hexagon Socket Stud Bolt M5x20	59	Spring Pin 3x8
15	Open Pin 3x15	60	Planer Blade Binder Plate
16	Sleeve	61	Binder Plate Bolt
17	Racket	62	Bearing
18	Workbench Weld Component	63	Nut M6
19	Crank Connect block	64	Fixed Workbench
20	Guide Plate	65	Flat Washer 4
21	Hexagon Bolt M8x20	66	Hexagon Bolt M4x12
22	Crank Stop	67	Goniometer (A)
23	Crank Bolt	68	Flat Washer 6
24	Crank Nip	69	Spring Washer 6
25	Hexagon Bolt M8x20	70	Male Hexagon Bolt M6x12
26	Flat Washer 4	71	Goniometer Mount
	Cross Recessed Raised Pan Head Screws		
27	M4x10	72	Hexagon Socket Locating Screw
28	Spring Washer 4	73	Hexagon Bolt M6x25
29	Pressing And Shaving Feeding Pointer	74	Big Flat Washer 6
30	Rubber Footing	75	Lock Screw
31	Nut M4	76	Angle Pointer
32	Cable Clip	77	Spring Pin 3x10
33	Cross Recessed Raised Pan Head Screws M4x16	78	Locking Axis
34	Footing Cover Plate (B)	79	Angle Iron
35	Auxiliary Station Plate Welding Component	80	Male Hexagon Bolt M4x15
36	Tapping Screw ST4.2x10	81	Goniometer (B)
37	Rising/Lowering Scale Sign	82	Ruling Plate Welding Component
38	Hexagon Bolt M5x8	83	Dust Exhaust Hood
39	Curve Preventing Sheath	84	Open Collar 6
40	Cover	85	Dust Exhaust Hood
41	Wires	86	Open Collar 6
42	Tapping Screw ST4.2x20	87	Planing Pointer
43	Power Supply Line (Plug)	88	Planing Pointer Sign
			Cross Recessed Raised Pan Head
44	Bolt	89	M5x12
45	Lock Spring	90	Knob

Part No	Description	Part No	Description
91	Adjusting Bar	136	Square Bush
92	Lock Nut M8	137	Big Gear
93	Lever	138	Connection Plate Rivet
94	Insert Block	139	Connection Plate Tensioning Spring
95	Stopper	140	Axis Collar (12) Cross Recessed Raised Pan Head Screws
96	Tapping Screw ST4.2x6	141	M5x12
97	Locking Bush	142	Spring Washer 3
98	Cantilever Components	143	Flat Washer 3
99	Bridge Supporting Welding Component	144	Cable Clip
100	Locking Knob	145	Micro-Switch Connecting
101	Locking Knob	146	Driving Pulley
102	Shield Plate	147	Ajar Block Screw
103	Location Limit Screw	148	Micro-Switch Block
104	Locking Clamping Plate	149	Eccentric Axis Washer
105	Location Clamping Screw	150	Spring Washer 8 Hexagon Half Socket Button Head Screws
106	Locating Screw	151	M8x15
107	Catch	152	Motor
108	Hanging Rod	153	Footing Cover (A)
109	Gasket (brake)	154	Exterior Teeth Locking Gasket 4
110	Brake	155	M16 Fastener
111	Bearing Cover	156	Switch Box Mount Cross Recessed Raised Pan Head Screws
112	Ball Bearing (6000-2Z)	157	M5x10
113	Main Station Plate Welding Component	158	7A Overload Protector
114	Feeding Scale Sign	159	Switch Box Cover
115	Ajar Block Spring	160	Tapping Screw T4.2x15
116	Hexagon Bolt M5x10	161	Thin Nut M12
117	Ajar Washer (B)	162	KJD12-16 Main Switch
118	Macro Switch (Idler Wheel Style)	163	Eccentric Axis
119	Arbor Belt Wheel	164	Movable Workbench
120	Multi-Wedge Belt (5PJ604)	165	Brush Housing Fixing Screw M4x12
121	Bush	166	Cable Clip (Motor)
122	Big Chain Wheel	167	Motor Shell
123	Hexagon Socket Button Head Screws M6x15	168	Brush Housing
124	Driving Chain (P=12.7)	169	Carbon Brush
125	Pinion	170	Nut
126	Multi-Wedge AL Belt Wheel Cross Recessed Raised Pan Head Screws	171	Ball Bearing 6101
127	M5x20	172	Inductance
128	12 Axis Collar	173	Stator-End Insulation
129	Multi-Wedge Belt (3PJ604)	174	Armature
130	Coupling Stud	175	Stator-End Insulation
131	Housing	176	Stator Terminal Insulation
132	Main Sign	177	Tapping Screw ST5x56
133	Axis Collar 9	178	Vane
134	Washer (Connection Plate)	179	Ball Bearing 80201
135	Small Chain Wheel	180	Motor Cover



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