charnwood

Woodworking machinery at its best!

10” x 5” PLANER THICKNESSER
OWNERS MANUAL

MODEL: PT250

CE

UK CA

Charnwood, Cedar Court, Walker Road, Hilltop Industrial Estate, Bardon, Leicestershire, LE67 1TU

Tel. 01530 516 926 Fax. 01530 516 929
email: sales@charnwood.net website: www.charnwood.net

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

Charnwood PT250 Specification

Voltage and frequency	240V at 50hz.
Motor (Carbon brush)	1500w (2hp)
Planer width	252mm (10”)
Maximum planing cut	2mm
Work Table	915 mm x 210 mm
Table height	360 mm
Fence tilt	90 to 45°
Max thicknessing cut	2mm
Thicknessing capacity	5 to 125mm
Feed speed	8 m/min
Number of blades	2
Cutter block rotation	9,000 rpm
Dimensions (WxDxH)	945mm x 470mm x 480mm
Weight	30kg
Rating	Hobby
Warranty	1 Year

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.

Unpacking

Open the top of the carton

Remove the top half of the polyfoam packaging.

Carefully unpack all of the contents and lift the machine onto a bench.

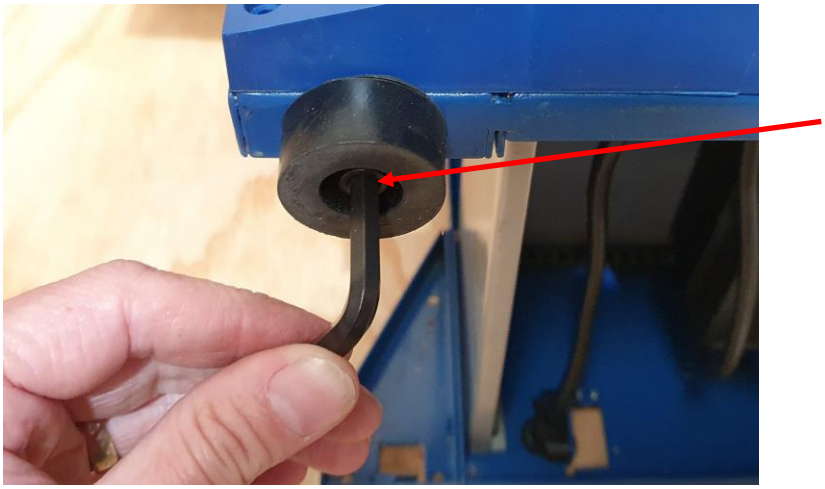
Lay out the parts and familiarise yourself with them.

Read the manual.

Please do not dispose of the packaging until you have fully assembled and tested the machine.

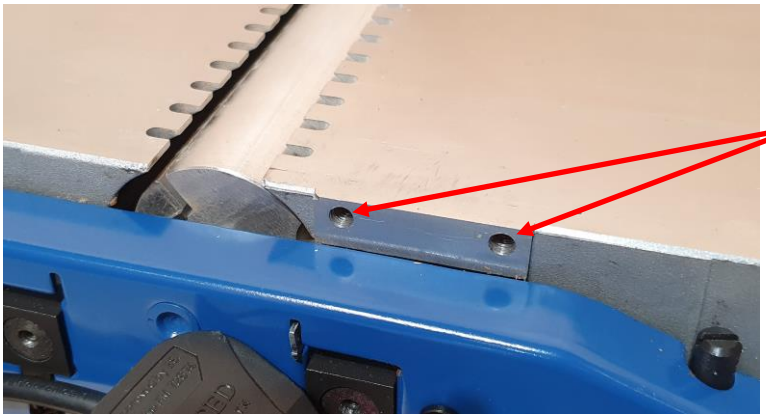
In the unlikely event there is a fault, you will need to re-use the packaging.

Assembly



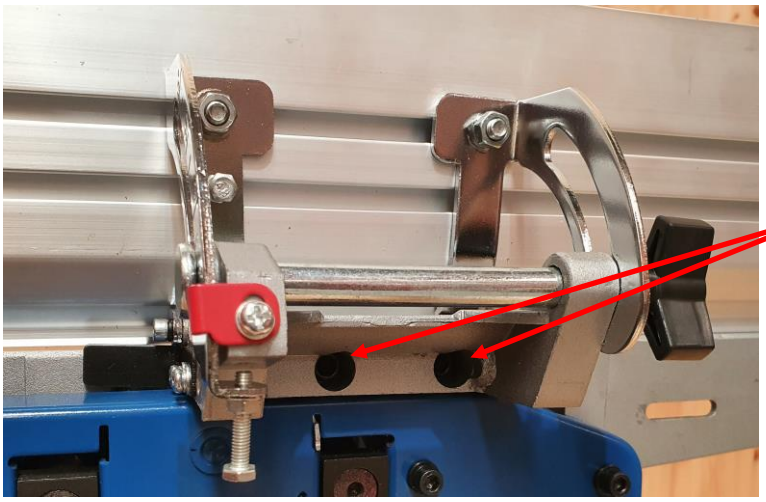
Clean the aluminium tables with a degreaser, such as WD-40.

Use M8 x 20mm cap head screws to attach four plastic feet to the underside of the body.

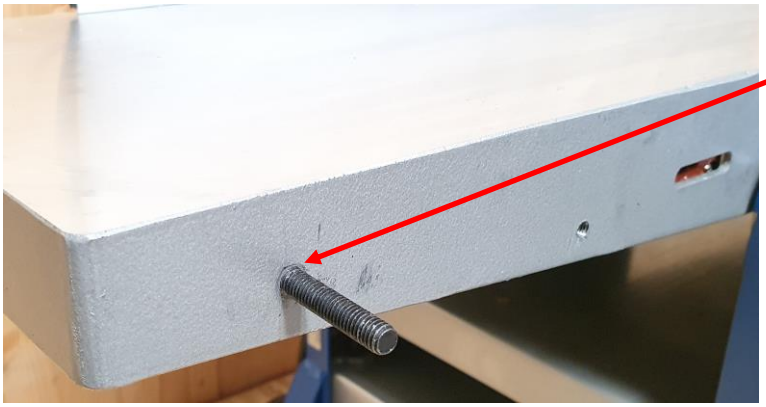


Place the machine upright

Locate two tapped holes on the side edge of the table

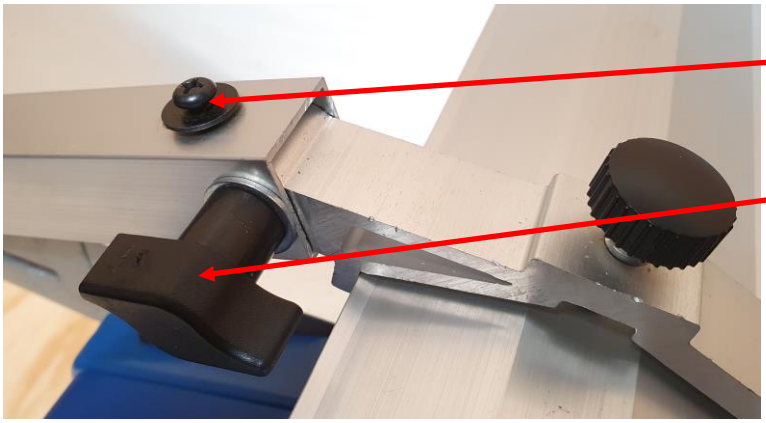


Fit the fence to the table, using the two M5 x 20mm cap head bolts and washers.



Fit the bridge guard arm pivot bolt

Screw the pivot bolt, with washer fitted, from the inside of the table, until the full length of the thread projects beyond the edge of the table.



Slide the bridge guard into the end of the bridge guard arm and secure using the screw and washer.

Secure in place using the M6 coach bolt, washer and plastic knob.

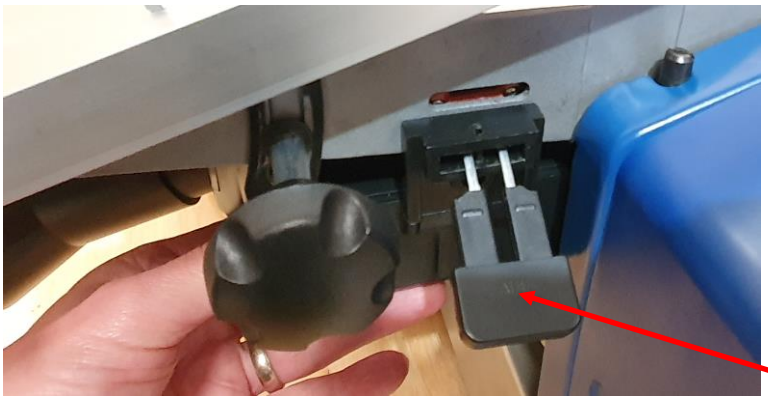
Fit the bridge guard support arm onto the bridge arm pivot bolt.

Secure the guard by screwing the wing nut onto the threaded bolt.

Insert the locking knob, with washer fitted, through the curved slot in the bridge arm. Set the bridge guard arm to the desired angle and tighten.

The dust extraction hood has a 65mm diameter outlet for connecting the extractor hose.

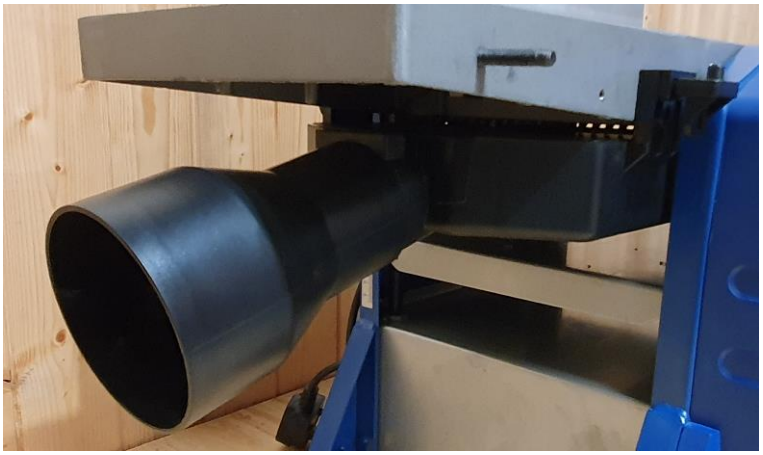
If you are using a 100mm diameter dust extractor hose, fit the adaptor.



PLEASE NOTE : THE MACHINE IS FITTED WITH AN INTERLOCKING SAFETY SWITCH AND WILL NOT RUN WITHOUT THE DUST EXTRACTION HOOD CORRECTLY FITTED

The hood can be fitted in two different ways, depending on what type of operation is being carried out:
Planing or Thicknessing

The hood is locked in place using two locking latches which push into a receiver. One located on each side of the table.



Planing Operations

The dust extraction hood must be fitted underneath the outfeed table and locked in place using the two locking latches.

Thicknessing Operations

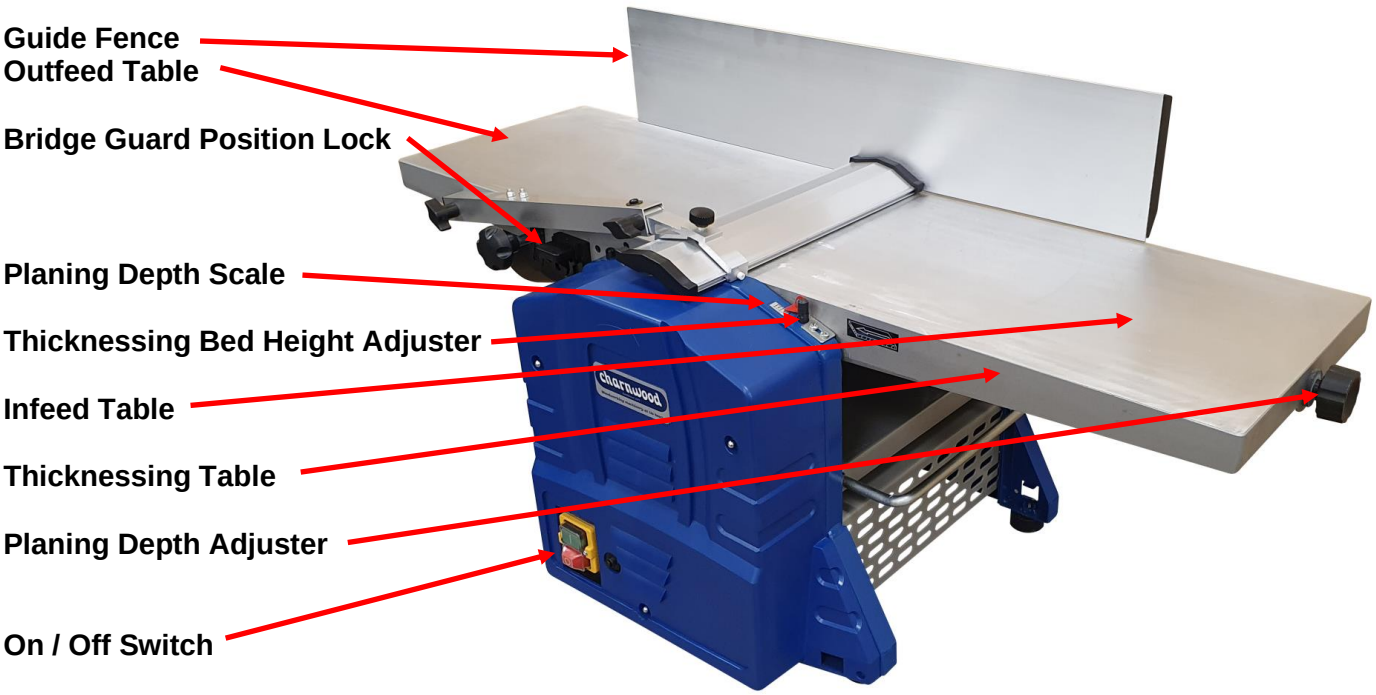
Remove the fence

The extraction hood is then fixed on top of the outfeed table and locked in place using the two locking latches.

Fit the crank handle onto the shaft located at the side of the infeed table.

Rotating this crank handle raises or lowers the height of the thicknessing table.

Using the Planer Thicknesser



Starting And Stopping

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

Standing with the switch side as the front. The direction of feed is Right to Left.
Fit the extraction hood under the outfeed table and clamp it into place.

Set The Angle Of The Guide Fence

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

The guide fence is locked and unlocked by using this locking knob.

Other angles can be set by reading off the scale.

Set the Depth of Cut

Turn the plastic knob, located on the end of the infeed table, clockwise to decrease the depth of cut.
The planning scale shows mm increments from 0 to 3. (Max. recommended is 2mm per pass)

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

Position the bridge guard so it covers any exposed part of the knives.

Use the push pads to hold the work piece firmly down against the table, feed the work piece across the knives, onto the out-feed table.

When working with very thin material, set the bridge guard all the way across to the fence.
Then set the height of the bridge guard, so the work piece can pass underneath it.

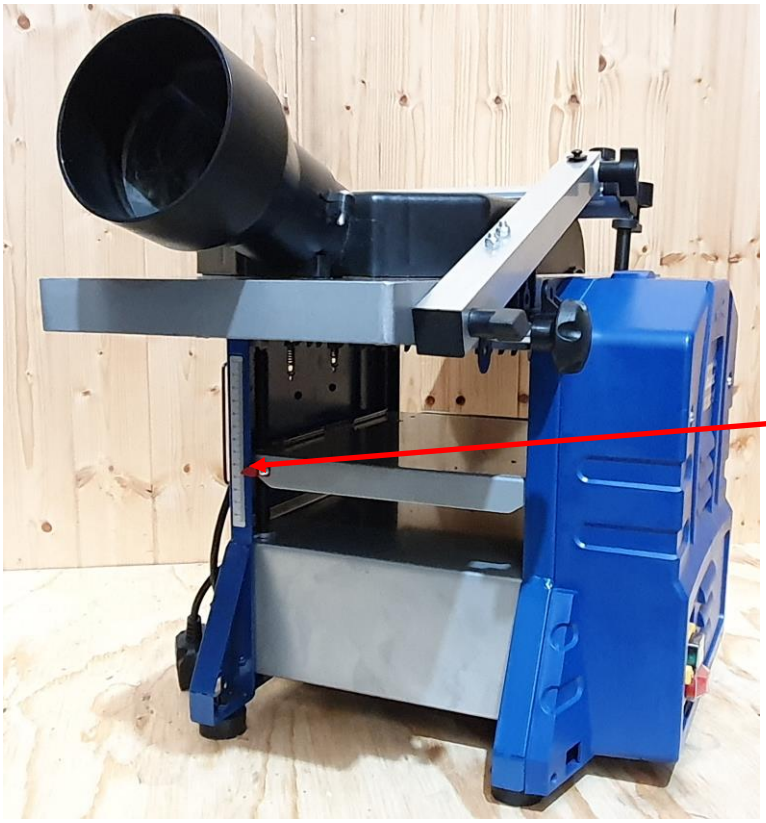
Thicknessing Function

Standing with the switch side as the front. The direction of feed is Left to Right.
Fit the extraction hood on top of the outfeed planing table and clamp 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, hold the work piece so it is flat against the thicknessing table and gently push forward.
Release the work piece when you will feel the drive roller take hold and feed it past the knives.



Move around to the other end of the machine to support the piece by hand as a second drive roller feeds it out of the machine.

Repeat as many times as necessary to achieve the required dimensions of the piece.

Each pass, rotate the crank handle clockwise one turn to raise the bed by 2mm.

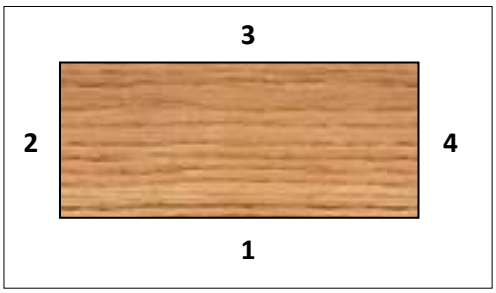
The actual dimension can be read from the thickness scale.

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

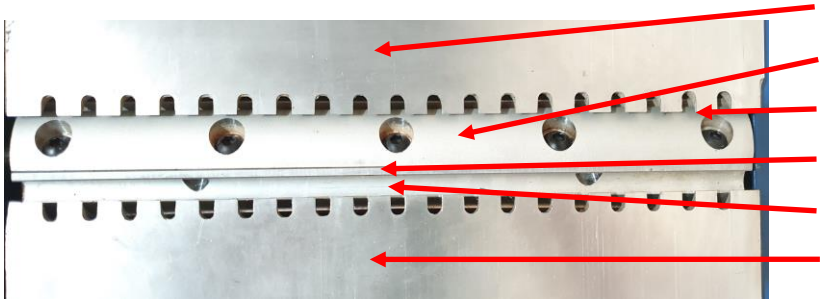
When faced with a rough sawn piece of timber which requires planing on all 4 sides and taking down to a specific finished dimension, follow this guide:

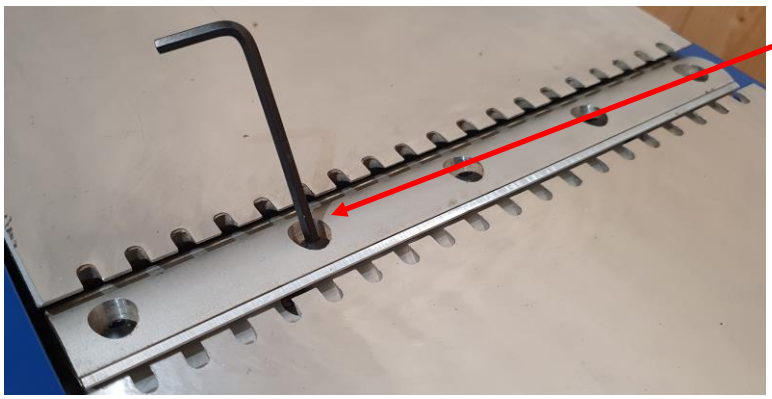
- Set the machine up for planing.
- Identify the flattest of the two wider faces on the timber. (Face 1 on diagram)
- Pass that side over the planer as many times as necessary until a flat and smooth finish is achieved.
- Hold the planed side firmly against the guide fence (set at 90 degrees to the bed) 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 thicknessing 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 thicknessing bed. Continue until the desired thickness for the timber is reached.



Knife Removal and Replacement

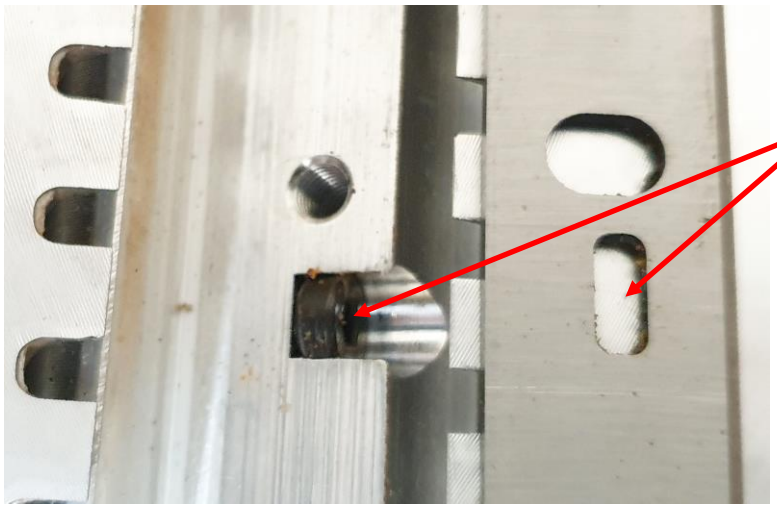
Disconnect from the power supply before starting any maintenance.





Using the 4mm allen key provided undo the 5 locking bolts (turn anticlockwise)

Lift out the locking bar and knife.

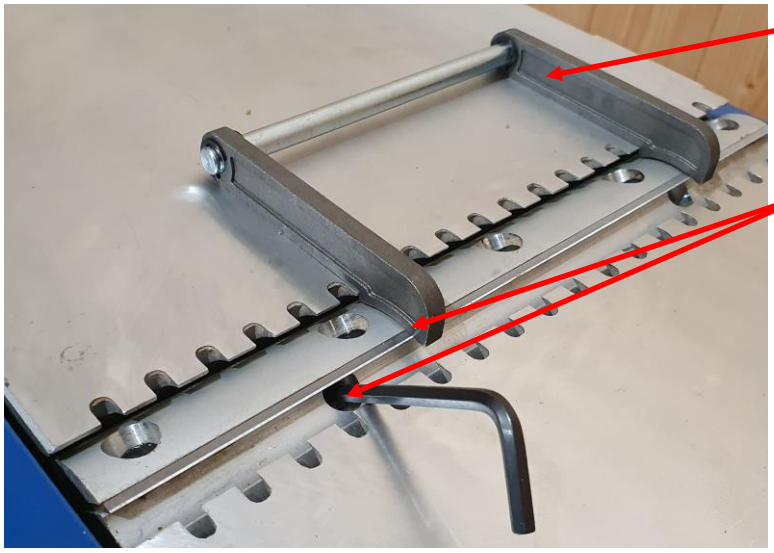


Place the new knife into the cutter block.

Make sure the slot in the knife sits onto the knife height setting screw.

Once the new knife is in place, refit the locking bar.

Leave the bolts loose so the knife can still move.



Place the knife height setting jig on the out-feed table with the curved section sitting over the knife and cutter block.

Using the Hex key, Adjust the blades if needed so that they just touch the curved section of the setting jig.

Tighten the 5 locking bar bolts and ensure it is firmly locked in place.

Repeat these steps for the second knife. Check that the blades do not contact 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 carbon brushes
Motor running but cutter block 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 knives
Excess Vibration	Planing knives out of balance	Reset the height of the knives

Declaration of Conformity

Charnwood Declare that Woodworking Planer & Thicknesser, Model PT250

Conforms with the following EU Directives: Machinery Directive 2006/42/EC
EMC Directive 2014/30/EU

Conforms with the following UK Regulations: Supply of Machinery (Safety) Regulations 2008
Electromagnetic Compatibility Regulations 2016

And further conforms to the machinery example for which the EC type examination Certificate No. MDC2045 & SHEM171100805401TLC have been issued by SGS United Kingdom, Unit 12, Bowburn South Ind Est, Bowburn, Durham, DH6 5AD.

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 directives & regulations.

Signed: R Cook Dated: 16/06/2021 Location: Leicestershire

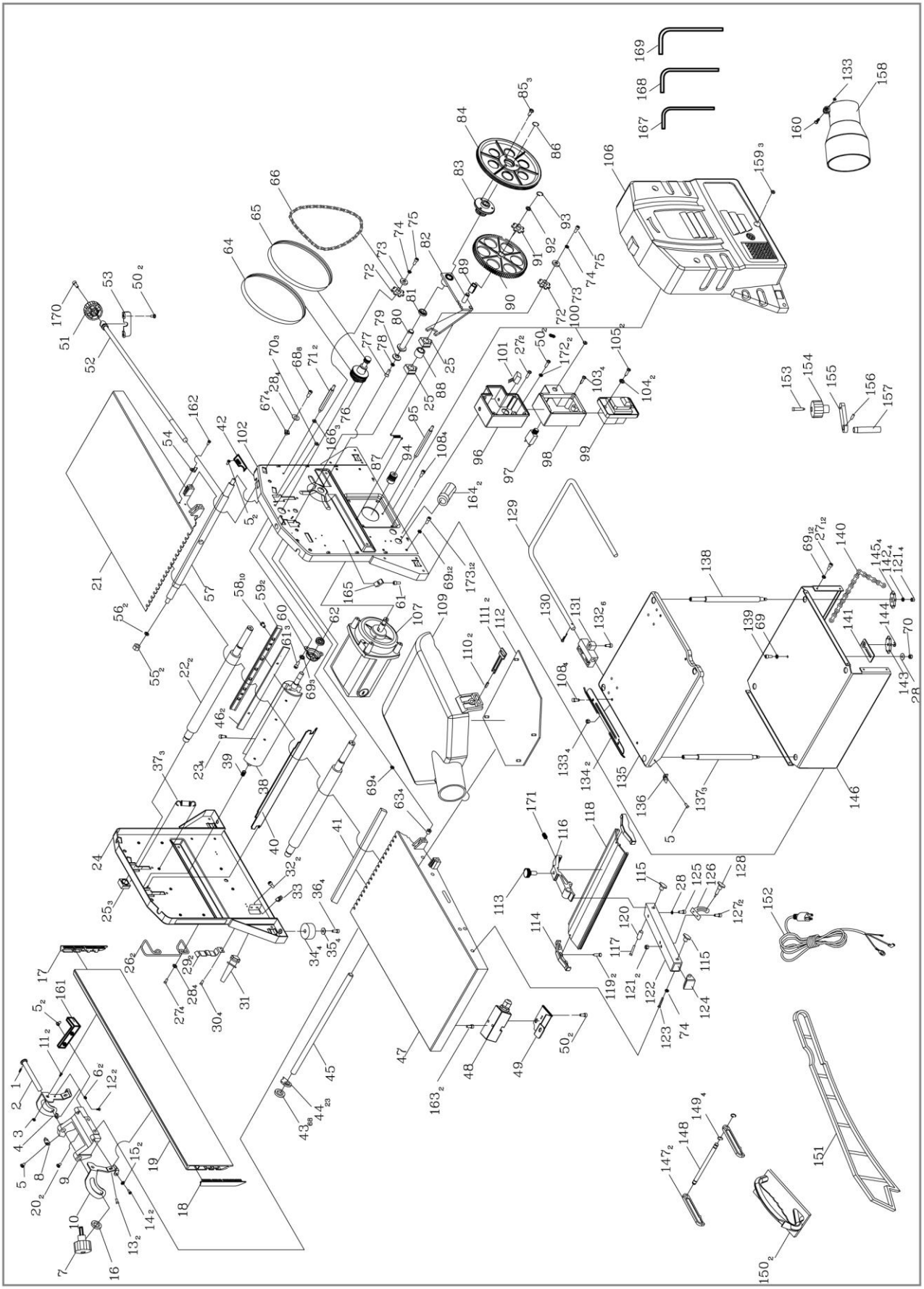
Richard Cook, Director

CE UK CA

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 PT250 Parts Diagram



Charnwood PT250 Parts List

Part No	Description	Part No	Description
PT250#001	Pin 3x10	**PT250#046**	Blade
PT250#002	Fence Pivot Shaft	**PT250#047**	Outfeed Planin Table
PT250#003	Hex Nut M6	**PT250#048**	Safety Switch
PT250#004	Right Hand Fence Tilt Bracket	**PT250#049**	Safety Switch Bracket
PT250#005	Screw M4 X 8	**PT250#050**	Screw M5 x 10
PT250#006	Hex Nut m4	**PT250#051**	Planing Depth Knob
PT250#007	Locking Knob	**PT250#052**	Planing Depth Adjustment Bar
PT250#008	Pointer	**PT250#053**	Bracket
PT250#009	Fence Casting	**PT250#054**	Pointer
PT250#010	Left Hand Fence Tilt Bracket	**PT250#055**	Nyloc Nut M8
PT250#011	Hex Screw M6 x 12	**PT250#056**	Spring Washer M8
PT250#012	Hex Screw M4 x 20	**PT250#057**	Depth Adjustment Bar
PT250#013	Screw M4 x 10	**PT250#058**	Bolt M6 x 12
PT250#014	Hex Cap Screw M4 x 10	**PT250#059**	Blade Locking Bar
PT250#015	Washer 4mm	**PT250#060**	Bracket
PT250#016	Washer 6mm	**PT250#061**	Bearing K10x13x13
PT250#017	Fence Right Hand End Cap	**PT250#062**	Bearing 6000Z
PT250#018	Fence Left Hand End Cap	**PT250#063**	Spacer
PT250#019	Fence Extrusion	**PT250#064**	Feed Roller Belt - 3PJ610
PT250#020	Bolt M6 x 20	**PT250#065**	Drice Belt - 5PJ610
PT250#021	Infeed Planing Table	**PT250#066**	Chain 081 x 36 x 12.7
PT250#022	Feed Roller	**PT250#067**	Spacer
PT250#023	Blade Height Adjustment Screw	**PT250#068**	Bolt M5 x 30
PT250#024	Rear Panel	**PT250#069**	Washer
PT250#025	Block	**PT250#070**	Nut M5
PT250#026	Cable Tidy Bracket	**PT250#071**	Spacer Bar
PT250#027	Screw M5 x 10	**PT250#072**	Upper Sprocket
PT250#028	Washer Assembly M5 x 10	**PT250#073**	Washer 6mm
PT250#029	Push Stick Bracket	**PT250#074**	Locking Washer
PT250#030	Screw M3 x 6	**PT250#075**	Screw M6 x 16
PT250#031	Cable Gromet	**PT250#076**	Top Drive Belt Pulley
PT250#032	Screw M4 x 16	**PT250#077**	Bolt M8 x 16
PT250#033	Strain Releif Plate	**PT250#078**	Locking Washer 8mm
PT250#034	Rubber Foot	**PT250#079**	Washer 8mm
PT250#035	Washer 8mm	**PT250#080**	Shaft
PT250#036	Bolt M8 x 20	**PT250#081**	Spacer
PT250#037	Spring	**PT250#082**	Connection Plate
PT250#038	Cutter Block	**PT250#083**	Small Feed Roller Gear
PT250#039	Retainer Support M4 x12	**PT250#084**	Large Feed Roller Belt Wheel
PT250#040	Safety Bar	**PT250#085**	Screw M5 x 15
PT250#041	Sponge Strip	**PT250#086**	Washer
PT250#042	Positioning Plate	**PT250#087**	Spring
PT250#043	Spacer	**PT250#088**	Spacer
PT250#044	Anti Kick Back Tooth	**PT250#089**	Spigot
PT250#045	Anti Kick Back Bar	**PT250#090**	Large Feed Roller Gear

Part No	Description	Part No	Description
PT250#091	Lower Sprocket	PT250#136	Pointer
PT250#092	Washer 10mm	PT250#137	Rise and fall lead screw
PT250#093	Split Washer 8mm	PT250#138	Rise and fall lead screw
PT250#094	Lower Drive Belt Pulley	PT250#139	Bolt M5 x 12
PT250#095	Spacer Bar	PT250#140	Chain 05B x 136 x 8
PT250#096	Switch Box	PT250#141	Tension Plate
PT250#097	Reset Button	PT250#142	Washer 5mm
PT250#098	Switch Box Cover	PT250#143	Cog
PT250#099	Switch	PT250#144	Split Washer 5mm
PT250#100	Nut	PT250#145	Cog
PT250#101	Capacitor 0.33mf	PT250#146	Base Plate
PT250#102	Front Panel	PT250#147	Blade Setting Jig Arm
PT250#103	Self Tapping Screw 9 x 10	PT250#148	Blade Setting Jig Joining Bar
PT250#104	Washer 3mm	PT250#149	Washer 6mm
PT250#105	Self Tapping Screw 9 x 16	PT250#150	Push Pad
PT250#106	Plastic Side Cover	PT250#151	Push Stick
PT250#107	Motor	PT250#152	Power Cable
PT250#108	Screw M5 x 12	PT250#153	Screw M6 x 33
PT250#109	Dust Guard	PT250#154	Crank Handle Knob
PT250#110	Split Pin 3 x 14	PT250#155	Crank Handle
PT250#111	Dust Guard Lock Key	PT250#156	Pin 3 x 20
PT250#112	Dust Guard Base Plate	PT250#157	Crank Handle Shaft
PT250#113	Bridge Guard Knob	PT250#158	100mm Dust Adaptor
PT250#114	Bridge Guard End cap	PT250#159	Dome Nut M5
PT250#115	Plastic Knob	PT250#160	Screw M5 x 16
PT250#116	Brdige Guard Bracket	PT250#161	Safety Bracket
PT250#117	Coach Bolt M6 x 30	PT250#162	Screw M4 x 8
PT250#118	Bridge Guard	PT250#163	Screw M4 x 25
PT250#119	Self Tapping Screw 2 x 8	PT250#164	Gromet
PT250#120	Spacer	PT250#165	Cable Clamp
PT250#121	Lock Nut M5	PT250#166	Nut M5
PT250#122	Bridge Guard Arm	PT250#167	4mm Allen Key
PT250#123	Hex Screw M6 x 35	PT250#168	5mm Allen Key
PT250#124	Screw M5 x 25	PT250#169	6mm Allen Key
PT250#125	Bolt M5 x 16#	PT250#170	Screw M5 x 12
PT250#126	Bridge Guard Height Bracket	PT250#171	Nylon Grub Screw M6 x 8
PT250#127	Bolt M5 x 35	PT250#172	Washer 5mm
PT250#128	Bridge Guard Height Knob	PT250#173	Screw M5 x 8
PT250#129	Extension Table	PT250#174	Lead Screw Sheath
PT250#130	Cotter Pin 2.5 x 25		
PT250#131	Extension Table Bracket		
PT250#132	Bolt M5 x 18		
PT250#133	Nut M5		
PT250#134	Thickness Table Side Guide		
PT250#135	Thickness Table		

Updated June 2021

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Charnwood, Cedar Court, Walker Road, Hilltop Industrial Estate, Bardon, Leicestershire, LE67 1TU
Tel. 01530 516 926 Fax. 01530 516 929
email: sales@charnwood.net website: www.charnwood.net