

DRAPER®

INSTRUCTIONS FOR 1600W Planer/Thicknesser

Stock No.36312

Part No.BPT254

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.



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GENERAL INFORMATION

These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product. Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.



CONTENTS

Contents/Guarantee 1

Specification 2

Power supply 3

General safety instructions 4

Additional safety instructions 5

Getting to know your planer/thicknesser 6

Assembly 7-9

Operation and use 10-13

Maintenance 14-15

Troubleshooting 16

Accessories 17

Disposal 18

Explanation of pictograms 18

Declaration enclosed



GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF, England. Telephone Sales Desk: (023) 8049 4333 or Product Helpline (023) 8049 4344.

A proof of purchase must be provided with the tool.

If upon inspection it is found that a fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. The guarantee period covering parts/labour is 12 months from the date of purchase. The guarantee is extended to 24 months for parts only. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agents.

Note: If the tool is found not to be within the Terms of Warranty, repair and carriage charges will be quoted and made accordingly.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.

Note: This tool is intended for domestic use only.



SPECIFICATION

The Draper Tools policy of continuous improvement determines the right to change specification without notice.

Stock no.	36312
Part no.....	BPT254
Rated voltage.....	230V~50Hz
Rated input.....	1600W
Cutting capacity	
Planer depth.....	3mm
Thicknesser depth.....	2mm
Planer width.....	254mm
Thicknesser width.....	254mm
Sole plate length.....	1050mm
Cutter block revolutions (No load)	6700r/min
Thickness table length.....	270mm
Max. thickness capacity (working)	480x254mm
Thicknesser feed rate.....	8m/min
Sound pressure level	99.3dB(A)
Sound power level.....	112.27dB(A)
Weight (Machine only)	85kg

Always wear an approved dust mask, safety goggles and ear protection.

Due to the weight of this item, seek assistance and do not under any circumstances lift this machine by the tables.

CAUTION: Risk of electric shock. Do not open.

This appliance is supplied with a moulded 3 pin mains plug for your safety. The value of the fuse fitted is marked on the pin face of the plug. Should the fuse need replacing, ensure the substitute is of the correct rating, approved to BS1362 and ASTA or BS Kite marked.

ASTA 
BSI 

The fuse cover is removable with a small plain slot screwdriver. Ensure the fuse cover is replaced before attempting to connect the plug to an electrical outlet. If the cover is missing, a replacement must be obtained or the plug replaced with a suitable type.

If a replacement plug is to be fitted this must be carried out by a qualified electrician.

The damaged or incomplete plug, when cut from the cable shall be disabled to prevent connection to a live electrical outlet.

This appliance is Class I[†] and is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.

If an extension lead is required, use an approved and compatible lead rated for this appliance. Follow all the instruction supplied with the extension lead.

[†]Earthed  : This product requires an earth connection to protect against electric shock from accessible conductive parts in the event of a failure of the basic insulation.

IMPORTANT:

On products exceeding 2000W it is recommended that the power cable and/or extension cable are fully unwound before a connection is made to the power supply. However, ensure the residual cable does not pose a trip hazard

General Power Tool Safety Warnings

⚠ WARNING: Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

- Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools

with your finger on the switch or energising power tools that have the switch on invites accidents.

- Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.

4) Power tool use and care

- Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source and/or battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

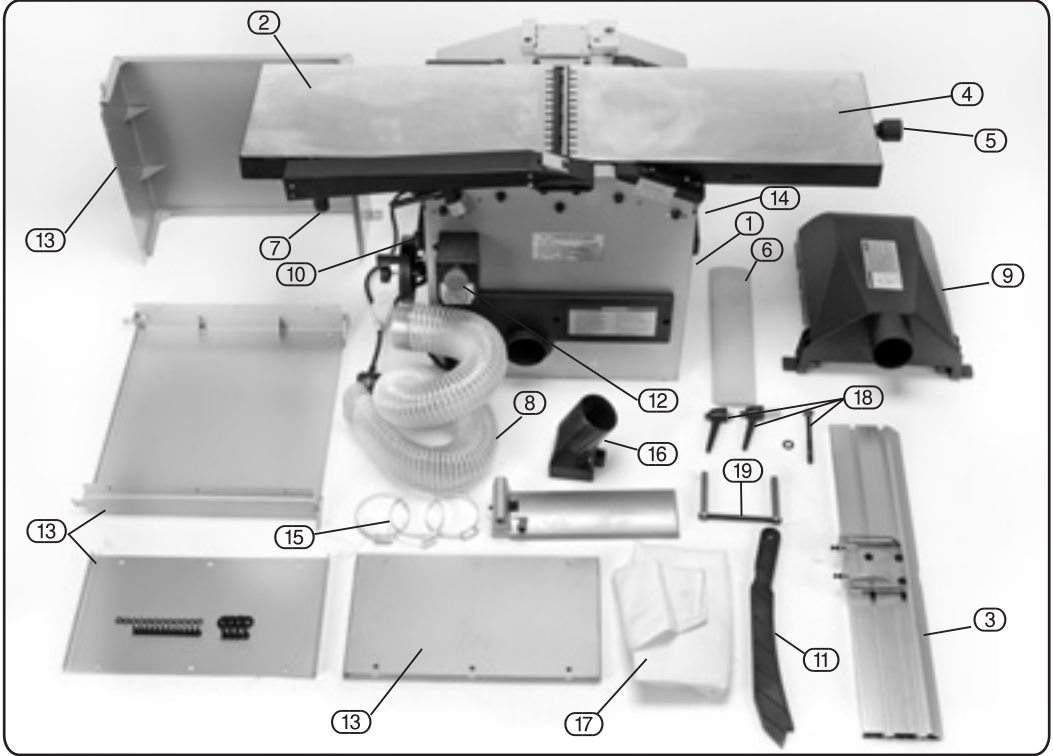
5) Service

- Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.



ADDITIONAL SAFETY INSTRUCTIONS

1. Before initial start up and at regular intervals check the blade assembly is secure and adjusted correctly.
2. Never remove any of the machines safety guards except for servicing or maintenance.
3. Regularly inspect the anti-kick back pawls and feed roller/mechanism for correct operation.
4. Never make cuts greater than 3mm.
5. Always wear approved safety equipment during use.
6. Always work on a stable and level surface.
7. Never over reach or place fingers near the blade assembly.
8. This machine is not designed to and must not be used to cut rebate, recess, tenon or mould.



- | | |
|---|---|
| ① Thicknesser out-feed port. | ⑪ Push stick. |
| ② Planing out-feed table. | ⑫ No-volt on/off switch. |
| ③ Sliding/tilting fence. | ⑬ Stand. |
| ④ Height adjustable planer in-feed table. | ⑭ Thicknesser table. |
| ⑤ Table height adjustment knob. | ⑮ Hose clamp. |
| ⑥ Blade guard. | ⑯ Dust bag spigot. |
| ⑦ Blade guard height adjustment knob. | ⑰ Dust bag. |
| ⑧ Dust extraction hose. | ⑱ Fence fitting bolt, washer, locking handle. |
| ⑨ Dust extraction hood. | ⑲ Blade set up gauge. |
| ⑩ Thicknesser in-feed port. | |

- **UNPACKING:** After removing the packing material, make sure the product is in perfect condition and that there are no visible damaged parts. If in doubt, do not use the planer/thicknesser and contact the dealer from whom it was purchased.

The packaging materials (plastic bags, polystyrene, etc.), must be disposed of in an appropriate refuse collection container. These materials must not be left within the reach of children as they are potential sources of danger.

- **BASE CONSTRUCTION (Fig.1&2):**

Screw together the floor metal parts that form the base of the machine with the screws and washers supplied as shown, ensure fixings are tight.

FIG.1



FIG.2



- **ADD MACHINE TO BASE (Fig.3-4):**

Seek assistance to lift the main planer thicknesser machine onto the base. Taking care to line up the fixing lugs on the base with the apertures on the main machine body.

- **WARNING:**

Do not attempt to lift this machine as shown. This will damage the machine and void the warranty. Only lift this machine by holding the main metal case.

FIG.3

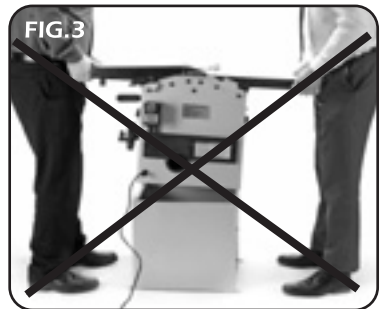
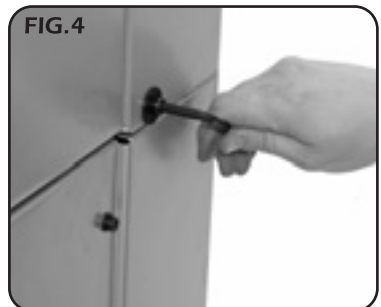


FIG.4



Align the fixing apertures with the fixing holes and secure together with the screws and washers supplied. Ensure all fixings are tight before proceeding.

- **GUIDE FENCE AND GUARD ASSEMBLY (Fig.5-8):**
Assemble the guide fence as shown, and secure with the bolt, washer and locking handle as shown.

FIG.5



FIG.6



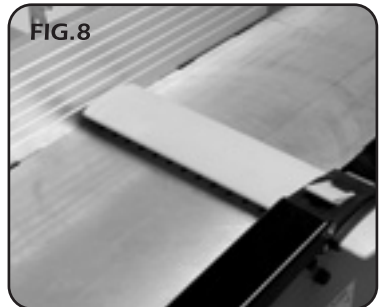
Slide the sliding/tilting guide fence into its housing as shown, and secure with the locking lever.

FIG.7



Slide the blade guard into its housing so that it almost touches the guide fence and lock it in position with the locking latch.

FIG.8



- **DUST EXTRACTION ASSEMBLY (Figs.9&10):**

Attach the dust extraction hose to the aperture in the side of the machine and secure with the hose clamp supplied. Next fit the other end of the dust extraction hose onto the spigot on the dust extraction hood and secure with a jubilee clip. Being careful not to crush the plastic spigot.

FIG.9



- Affix the square to round spigot onto the square aperture that is coated on the opposite side of the machine to the round aperture and secure with the screw. Affix the small open end of the dust bag over this round spigot and secure with the provided hose clamp. Being careful not to overtighten and crush the plastic spigot.

FIG.10



- **NOTES:**

BEFORE OPERATION AND USE:

Always use the supplied dust extraction hood. The machine will not work without it and this will reduce the amount of airborne dust and any health risks from the inhalation of dust particles.

Before use always perform a safety check to ensure that the work area is safe and that the machine blade guard and dust extraction system are correctly fitted and functioning. Try to remove more wood than the maximum of 3mm for each single pass will result in motor overload and will quickly dull the blades.

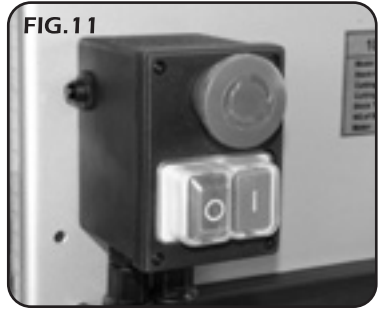
Always check each workpiece for knots, nails etc before planing/thicknessing to avoid the risk of injury and damage to the machine. As wood naturally distorts it may be necessary to plane/thickness both top and bottom surfaces of the workpiece to gain a true finish.

PRE-USE INSPECTION (Fig.11):

Prior to performing any operation carry out a pre-use inspection to ensure that there are no safety issues such as the blades contacting any foreign objects, once you are satisfied that it is safe to proceed and that the machine has been adjusted to ensure the best accuracy turn on the machine by pressing the green button.

- NOTE:

Always switch the machine off before putting your hands anywhere near the cutter block.



- PLANING OPERATIONS:

1. Set up the sliding/tilting guide fence according to your requirements.
2. For planing operations the dust extraction hood needs to be fitted below the cutting head to achieve this the dust extraction hood must be inserted (open side up) into the thickening port and fixed in place with the plastic keys that will lock into the open slots machined into the sides of the main work table.

- NOTE (Fig.12):

It may be necessary to lower the thicknesser table to allow the dust extraction hood to be inserted.



3. Adjust the blade guard so that its height is slightly higher than the workpiece.

4. PLANER DEPTH (Fig.13):

Adjust the planing depth to the required amount by means of the adjustment knob fitted to the end of the adjustable planer table.



5. Once the machine is set for your requirements perform a pre-use check to ensure all guards are secured in place and that the blades will not contact any foreign objects once it is turned on.

4. START CUTTING WORKPIECE. (Fig.14):

Once you are satisfied that you are ready to begin press the green button to start the machine.



- PLANING (Fig.15):

- NOTE:

For planing operations the dust extraction hood is fitted open end up inside the thickening port and secured with the push in keys. You may need to lower the thickening table to allow the hood to insert.

1. Set the cutting depth that you require, ensure that the fence is at the correct angle. For normal planing this would be 90°. Other angles can be set using the built in gauge.
2. Raise the blade guard enough to allow your workpiece to slide underneath. Place the wood to be planned onto the in-feed table with its leading edge a short distance from the cutter block.
3. Press the green on button and allow the machine to reach its full blade rotation speed.
4. Applying firm downwards pressure carefully feed the work piece over the cutter block in the direction indicated by fig.14 whilst ensuring that it is kept tight against the fence. Ensure a constant feed speed and allow the blades to cut at their own speed. Never try to feed the work piece too fast for the blades, when coming to the end of a piece always use the push stick provided to ensure you do not put your hands close to the spinning blades.
5. When the work piece has been planned press the red button to stop the machine, always ensure the blades have stopped rotating and the blade guard is back in place before leaving the machines.

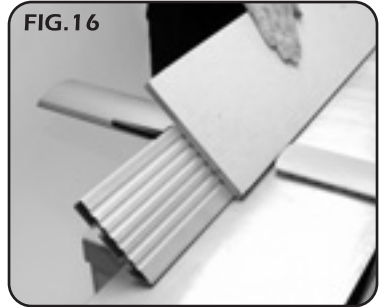


- **THIN EDGE PLANING (Fig.16):**

When planing the thin edge of a workpiece you must ensure that any exposed blade is covered by blade guard.

Slide the blade guard to expose the minimum amount of blade required to complete the edging process.

FIG. 16



THICKNESSING OPERATIONS

FEED CONTROL (Fig.17):

To engage the thicknessing feed rollers you need to select this function by raising the selection lever and pushing it in until it can be locked down again into its second notched position. Be sure to disengage this feature once you have finished thicknessing.

FIG. 17



EASY ACCESS IN FEED PORT (Fig.18&19):

3. For ease of access to the thickener in feed port the left half of the work table must be rotated and locked in the vertical position.

FIG. 18



To do this remove the planer guide fence, then release the work table securing latch. Now the worktable can be rotated on its fixed axis into the vertical position where a sprung loaded catch will lock it safely in the vertical position.

- **NOTE:**

You must manually release the locking catch to lower the worktable after thicknessing operations have finished. Failure to do this will result in damage to the machine. Never pass short length work pieces through the machine, to do so can expose your hand to the risk of injury from the moving parts.

FIG. 19



- DUST EXTRACTION (Fig.20):

For thickening operations the dust extraction hood must be fitted over the top of the cutting block as shown. And secured with the push in keys.

For thickening operations the workpiece must be fed into the machine in accordance with the feed direction indicated in fig.20B.

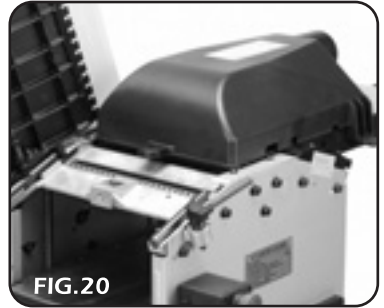


FIG. 20

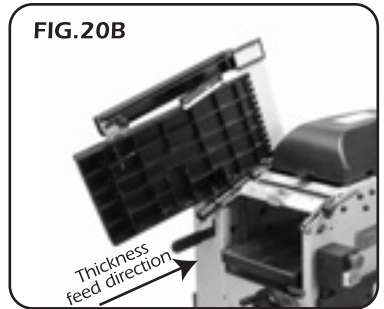


FIG. 20B

ADJUSTING THICKNESS (Fig.21):

Adjust the thickener table using the adjustment wheel (A) to set your required cutting depth and lock the adjustment wheel in place with the smaller thumb wheel (B). Engage thickening feed rollers using lever (C).

1. Lower the thickening table enough to allow your work piece to enter the thickening port. And push below the cutter block.
2. Raise the thickening table until there is a slight resistance as the work piece just contacts the blade.
3. Withdraw the work piece and wind the thickener table up to the desired cut depth.
4. Support the work piece and carefully press the green button to start the machine, allow the machine to reach full speed and then carefully feed in the work piece at a constant speed. The work piece will contact the metal feed rollers and be automatically fed through the machine. Be sure that you have some means of supporting the work piece as it emerges from the machine. The best support for this application is a 300mm roller stand (Draper stock number 89341).

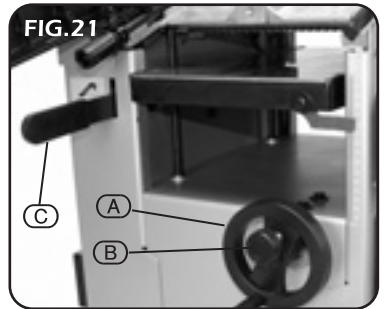


FIG. 21

- **NOTE:**

Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

- **BLADE REMOVAL, REPLACEMENT & SET UP (Fig.22):**

Slide the tilting sliding fence so that it does not cover any of the cutter block, adjust the blade guard so that you have access to the full length of the cutter block.

Whilst exercising caution against the risk of the sharp blades, carefully rotate the cutter block by hand until you can access the blade and blade clamp. Using the spanner provided carefully undo the nuts that fix the blade clamp in place. Loosen these nuts until the blade can be withdrawn upwards out of the machine. Take note of the blades correct orientation before removal. To ensure correct replacement remove residual traces of wood dust and sap from the blade clamp, blade and block. Before the blade is re-fitted, follow this procedure for the second blade in the cutter block. Always replace the blades in pairs, take care when handling the blades to avoid injury. Always fit genuine replacement blades.

To refit the blades slide the blade clamp (if removed) back into its correct orientation in its slot in the cutter block. Slide the new, sharpened blade back into its position between the blade clamp and cutter block making sure it is in the same orientation as when it was removed.

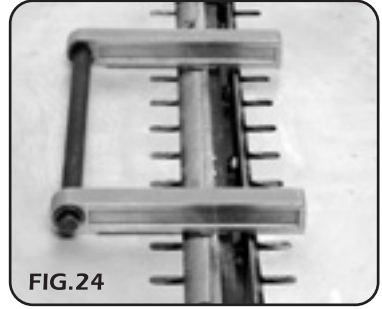
- **DEPTH SETTING (Fig.23):**

To set the blades you must first set the blade cutting depth to zero on the cutting depth gauge (planing in feed table). Then adjust the outfeed table to be level with the infeed table, this can be done by placing a long straight edge or steel rule across the two tables and adjust the cut feed table to suit.



- SETTING BLADES (Fig.24):

Once both tables are confirmed as level place the blade setting tool onto the centre part of the blade width as shown.

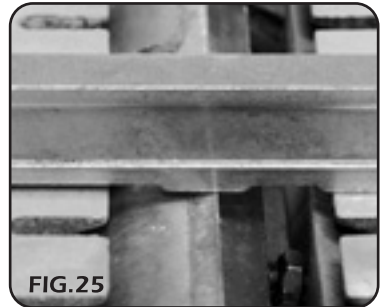


Now rotate the cutter block and adjust the height of both blades so that they just touch the blade setting tool as shown in fig.25.

Blade height adjustment is performed by means of the hex. head screws in the cutter block. Use the correct size of hex. key supplied to adjust the height.

- NOTE:

It is recommended that blade sharpening is done professionally using a jig. Blades must be sharpened as a pair to ensure that they are correctly balanced to avoid vibration of the machine due to unbalanced cutting blades spinning at high speed. The blades **MUST** be replaced as soon as they have been reduced in length (from sharp edge to blade rear) by a total of 3mm.



Regular inspection and cleaning reduces the necessity for maintenance operations and will keep your tool in good working condition. The tool bearings and gears are life-long lubricated. The motor must be correctly ventilated during tool operation. For this reason, avoid blocking the air inlets with hands. After use disconnect the tool from the power supply and clean carefully vacuum ventilation shots, etc.

All servicing and maintenance not listed in this manual must be carried out by an approved Draper service agent (see back cover for contact details).

- **NOTE: Remove the plug from the socket before carrying out adjustment, servicing or maintenance.**

TROUBLE	PROBABLE CAUSE	REMEDY
Machine will not start.	<ol style="list-style-type: none"> 1. Machine not plugged in. 2. Fuse blown. 3. Cable damaged. 4. Incorrectly set-up. 	<ol style="list-style-type: none"> 1. Plug in the machine. 2. Replace fuse. 3. Replace cable. 4. Double check micro-switch/selector switch positions.
Loss of cutting performance.	<ol style="list-style-type: none"> 1. Blades have become blunt. 2. Drive belt slipping. 	<ol style="list-style-type: none"> 1. Replace or reverse the pair of blades. 2. Tension or replace belt.
Workpiece surface uneven or cracked.	<ol style="list-style-type: none"> 1. Blades have become blunt. 2. Cutter block clogged. 3. Blades fitted backward. 4. Workpiece insufficiently dry. 5. Work piece cut against the grain. 6. Excessive amount of material removed. 	<ol style="list-style-type: none"> 1. Replace or reverse the pair of blades. 2. Remove sawdust/sap. 3. Refit correctly. 4. Use another piece with lower moisture content. 5. Reverse workpiece and feed again. 6. Reduce material removal on next pass (Maximum 3mm removal per pass).
Reduced feed rate.	<ol style="list-style-type: none"> 1. Table surface dirty. 2. Roller drive belt slipping. 3. Roller drive mechanism stiff. 	<ol style="list-style-type: none"> 1. Clean off any sap. 2. Replace belt. 3. Lubricate drive bearings and mechanism.
Workpiece jams when thickening.	<ol style="list-style-type: none"> 1. Workpiece too large. 2. Excessive amount of material removed. 	<ol style="list-style-type: none"> 1. Maximum capacity 160mm. 2. Reduce material removal on next pass (Maximum 3mm removal per pass).



ACCESSORIES

Stock No.	Part No.	Description
04586	YBPT2545B	Spare set of 2 blades

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not abandon in the environment.



Never wear gloves.



Always wear ear protection.



Always wear a dust mask.



Always wear approved safety goggles.



Do not dispose of WEEE* as unsorted municipal waste.

* Waste Electrical & Electronic Equipment.

- **DRAPER TOOLS LIMITED,**
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- **Sales Fax:** (023) 8049 4209
- **General Enquiries:** (023) 8026 6355

- **Service/Warranty Repair Agent**
For aftersales servicing or warranty repairs, please
contact the Draper Tools Helpline for details of an
agent in your local area.

YOUR DRAPER STOCKIST

KCMC231210

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