



## THICKNESSER / PLANER BENCH TOP



TSTH08



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## OPERATION MANUAL

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### PRODUCT DETAILS

PRODUCT

Thicknesser / Planer Bench Top

MODEL NO.

TSTH08

DISTRIBUTED BY



**NOTE:**

This manual is only for your reference. Due to the continuous improvement of the ToolShed products, changes may be made at any time without obligation or notice.

**WARRANTY**

This product may be covered under the ToolShed warranty. For more information see our Terms & Conditions at [www.thetoolshed.co.nz](http://www.thetoolshed.co.nz)



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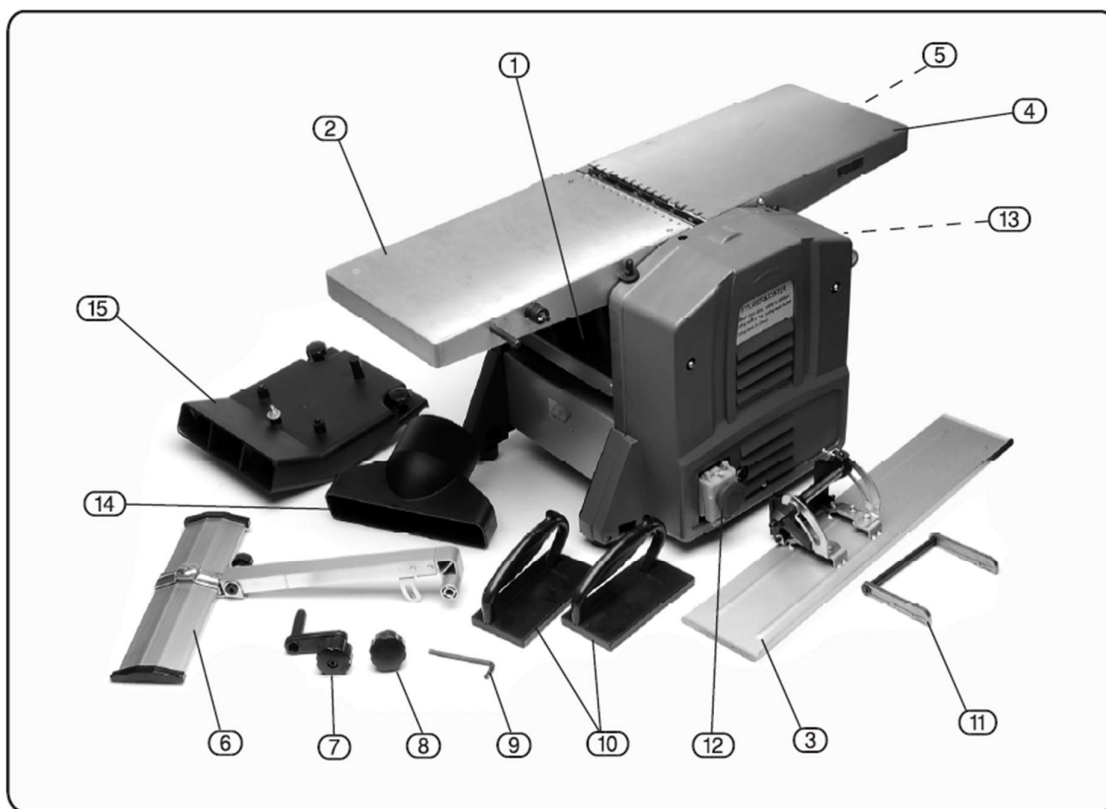
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## SPECIFICATIONS

<b>Planer</b>	
Cutting depth	0 - 3mm
Max. cutting width	204mm
Table dimensions	740mm x 210mm
<b>Thicknesser</b>	
Work piece thickness	5 – 120mm
Cutting depth	0 – 2mm
Max. cutting width	204mm
Feed rate	8m per minute
<b>Motor size</b>	1500w
<b>Dust extraction size</b>	100mm
<b>Dimensions</b>	800mm x 400mm x 465mm
<b>Weight</b>	27.5kg

## IDENTIFICATION



1.	Thicknesser feed port	9.	Hexagon key
2.	Planing table	10.	Workpiece paddles
3.	Sliding/tilting fence	11.	Blade setting tool
4.	Height adjustable planer feed table	12.	On / off switch
5.	Table height adjustment knob	13.	Thicknesser outlet port
6.	Workpiece guide	14.	Dust extraction adapter
7.	Thicknesser bed height adjustment handle	15.	Dust extraction port
8.	Workpiece guide height adjustment fixing knob		

## IMPORTANT INFORMATION

### GENERAL SAFETY GUIDELINES



**WARNING** READ ALL SAFETY WARNINGS AND ALL INSTRUCTIONS. Failure to follow instructions and warnings could lead to serious injury, electric shock, or fire. Save ALL warnings and instructions for future reference.

### WORK AREA SAFETY

- **Ensure that your work area is kept well-lit and clean.** Lack of visibility and clutter greatly increase the risk of accident.
- **Keep bystanders and children clear when operating machinery.** They can cause distraction or risk injury themselves.
- **Ensure you are not operating the machinery in the presence of flammable gases, dust, liquids, or anything that creates an explosive atmosphere.** Machinery can create sparks which can lead to ignition in these environments.

### PERSONAL SAFETY

- **Always wear personal protective equipment.** Eye protection, ear protection, dust masks and other protective equipment will help to reduce the risk of personal injury.
- **Dress appropriately. Do NOT wear jewellery or loose clothing that can get caught in moving parts.** Keep hair, loose clothing, jewellery, and anything else that could be of risk away from moving parts or they could be caught.
- **Always remain alert and do NOT operate the machinery under the influences of any substances (drugs, medication, alcohol).** Losing focus could lead to injury while operating machinery.
- **Always keep proper footing and balance.** Overreaching can lead to slipping and falling which can result in injury.
- **Ensure the power switch is in the off position before connecting any battery or power source to the machinery.** This can lead to accidents as machinery can fire suddenly when it is not expected and lead to accident.
- **Use all provided dust collection and extraction attachments if included.** This with the use of dust masks can help keep you safe from dust and keep your work site clear while working.
- **Ensure loose parts such as wrench or adjusting key are removed before starting the machinery.** Failure to remove these can result in serious injury.

### ELECTRICAL SAFETY

- **Do NOT use the machinery in raining conditions or wet areas where the machine could get wet.** Water in the machinery can lead to electric shock.
- **Only use the power tool or machinery when the plug correctly matches the power outlet.** Modifying plugs greatly increases the risk of electric shock.
- **Keep the power cord away from anything that could damage it such as sharp edges, moving parts or heat.** A damaged power cord increases the risk of electric shock.
- **Only operate outdoors with the use of an outdoor extension lead.** Not all extension leads are suited to outdoor use and using one which is not can greatly increase the risk of electric shock.



- **Avoid body contact with grounded or earthed surfaces.** Surfaces such as radiators, ranges, pipes, and refrigerators can increase risk of electric shock due to your body being earthed or grounded.

#### **MACHINERY USE AND CARE**

- **Use the correct tool for the job.** Forcing a tool to do a job it was not designed for increases the risk of accident or injury.
- **Disconnect power tools and machinery from power or remove batteries before storing tools and machinery or making any changes or adjustments to them.** This reduces or removes the risk of power the tool or machinery accidentally firing which can help prevent injury or accident.
- **Check the machine for damage or any condition that could affect the way the machine operates.** An unrepaired machine can lead to accident and injury. Only have your machinery repaired with genuine parts from **The ToolShed**.
- **Only use the machinery with genuine parts or accessories that are designed to be used with the power tool and machinery.** Failure to do so could result in accident or injury or damage your machine.
- **Store your machine out of reach of children and away from untrained personnel when not in use.** Use by somebody untrained or a child could lead to accident or serious injury.

#### **ADDITIONAL SAFETY FOR TOOLSHED THICKNESSER / PLANER BENCH TOP**

1. Before initial start up and at regular intervals, check the blade assembly is secure and adjusted correctly.
2. Never remove any of the machine's safety guards except for servicing or maintenance.
3. Never make cuts greater than 3mm.
4. Always wear approved safety equipment during use.
5. Always work on a stable and level surface.
6. Never overreach or place fingers near the blade assembly.

#### **SERVICE**

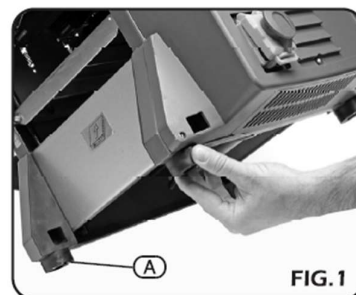
- **Have your machinery serviced with ToolShed replacement parts.** This will ensure that the safety of the power tool or machine is maintained.

## ASSEMBLY

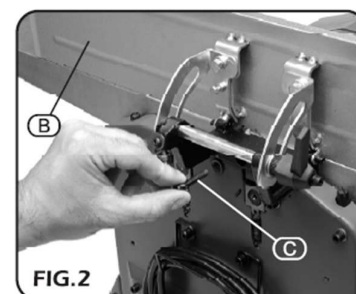
**NOTE:** Remove the plug from the socket before carrying out adjustment, servicing, or maintenance.

**WARNING:** Due to the weight of this product, seek assistance when lifting/moving it. Never lift this product using the worktables.

**Feet (Fig.1)** – Attach the rubber feet (A) using the four hex bolts provided.



**Tilting Fence (Fig.2)** – Attach the rear tilting fence (B) using the two hex bolts (C) provided.

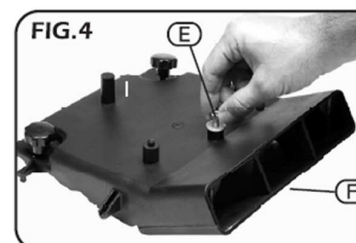


**Thicknesser and Bed Height Adjustment Handle (Fig.3)** – Attach the height adjustment handle (D) by sliding it onto the gear spindle. The gear spindle is located on the left side of the front of the planer/thicknesser.

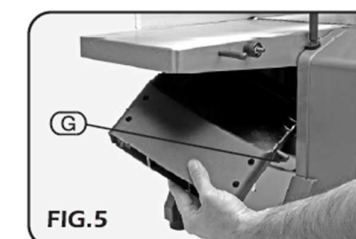


**Dust Extraction – Planer (Figs.4-8)** – Remove the nut and washer (E) from the dust extraction chute (F).

**NOTE:** The machine is fitted with safety switches that will not allow the machine to start unless the guard is fitted.



Lower the thicknesser bed using the height adjustment handle (Fig.3) (D) to the lowest point. Insert the dust extraction chute into the feed port and insert the locating lugs on the chute into the holes on the thicknesser bed (G).





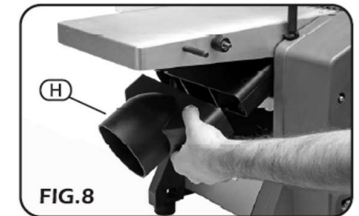
Once the extraction chute is fully seated on the bed, raise the bed to the highest point until it is completely nestled between the bed and the underside of the planing table.



With the table at the highest point, screw on the nut and washer which was removed in Fig.4.



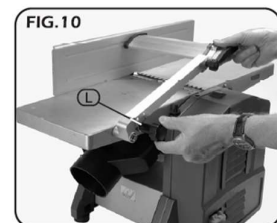
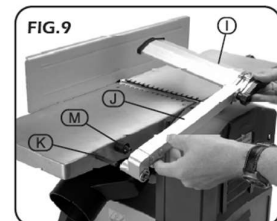
Attach the dust extraction adapter (H) to the chute. This will enable the extraction unit to be used with a 10mm hose or reducing adapter.



**Workpiece Guide – Planer (Fig.9&10)** – The workpiece guide (I) is used to guide the wood along the planer table during the planer process.

Locate the arm of the workpiece guide (J) onto the locating pin (K) situated on the planer bed (Fig.9).

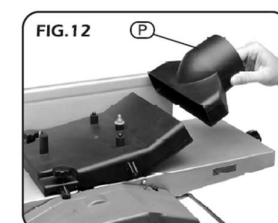
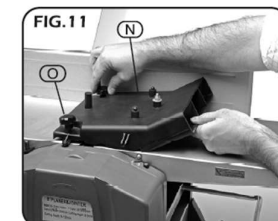
Attach and tighten fixing nut (L) (Fig.10) to height setting screw (M) (Fig.9).



**Dust Extraction – Thicknesser (Fig.11&12)** – Place dust extraction chute (N) (Fig.11) onto the planing table. The extraction chute can only attach one way with the fixing knobs (O) screwing into the bed. The extraction chute also acts as a blade guard when using the thicknesser.

Attach the dust extraction adapter (P) (Fig.12) to the dust extraction chute (N) (Fig.11).

**NOTE:** The machine is fitted with safety switches that will not allow the machine to start unless the guard is fitted.

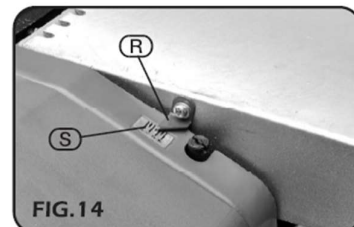
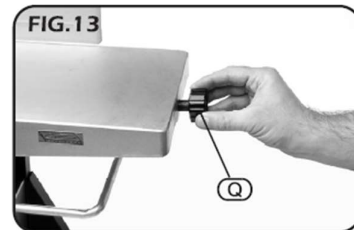


## OPERATION & USE

**NOTE:** Remove the plug from the socket before carrying out adjustment servicing or maintenance. Any portion of the cutter block not being used must be guarded.

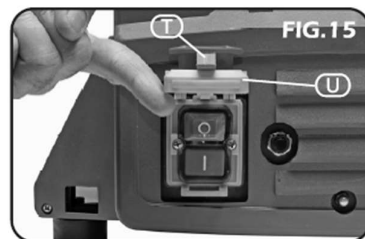
**PLANER (Fig.13&17)** – Turn the planer height adjustment knob (Q) to select the desired height of the bed.

The height, which in turn means the depth of cut applied to the workpiece, is shown by the pointer (R) on the height scale (S).



Start the planer/thicknesser by pressing the green button marked “I” on the switch.

**NOTE:** The switch has an emergency stop button. To activate, press button (T) when cover (U) is closed.



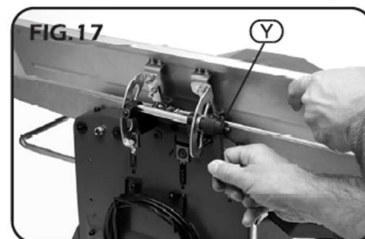
**NOTE:** When feeding any workpiece always use a push stick or pressure pad as applicable. Keep fingers from blade area (X) (Fig.16).

Pass the workpiece over the planing bed at a slow steady pace. Ensure workpiece is passed in direction of arrow found on planing table.

Use the fence (V) to aid in support of the workpiece. Workpiece guide (W) will also aid in support of the workpiece.



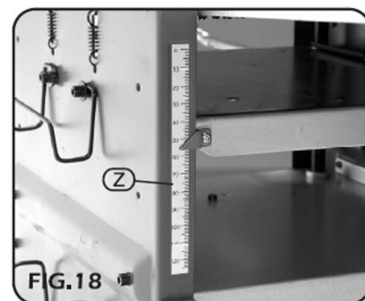
The rear support fence can be tilted 0-45 degrees depending on the chosen application. Unlock lever (Y), select angle, and re-tighten locking lever.



**THICKNESSER (Fig.18-20)** – Follow Figs.11&12 for dust extraction set up procedure.

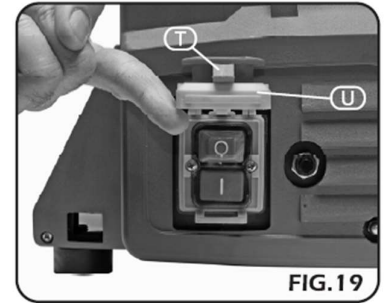
Select desired thicknesser height using thickness adjustment handle (see Fig.3).

The chosen height is indicated by the pointer on the measuring scale (Z).



Start the planer/thicknesser by pressing the green button marked "I" on the safety switch.

**NOTE:** The switch has an emergency stop button. To activate press button (T) when cover (U) is closed.



Feed the workpiece slowly into the thicknesser port, resting it on the thicknesser bed. Once the workpiece comes into contact with the rollers under the planer bed it will be pulled through and fed out of the thicknesser exit port automatically.



Attach the outlet on the dust extraction port to a suitable dust extractor. This will reduce the amount of airborne dust and health risks associated with the inhalation of particles.

Adjust the height of the blade guard/workpiece guide to rest on top of the dust extraction port.

Adjust the height of the table. Rotate the thicknesser table height adjustment clockwise to raise the table, increasing the material removal. One complete rotation is equivalent to 3mm as indicated on the scale next to the feed port. 3mm max per pass.

Ensure the blade assembly is not going to contact any foreign objects before rotating the switch selector anti-clockwise to the thicknesser position.

The maximum amount of material removable is 3mm, however this may not be the case on harder woods or after the blades have begun to dull. Avoid standing directly in front or behind the workpiece to avoid injury.

As wood naturally distorts it may be necessary to plane/thickness both top and bottom surfaces of the workpiece to obtain a true finish.

Trying to remove excessive amounts on a single pass will result in motor overload and will quickly dull the blades. When thicknessing material which is not parallel it may be necessary to create a custom jig.

## MAINTENANCE

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

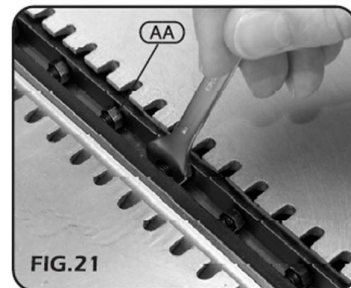
### BLADE REMOVAL, REPLACEMENT & SET UP

#### Blade Removal

Loosen blade and blade holder retaining bolts (AA). Slide out blade and clean bearings and blade holder using an oily cloth.

#### Blade Alignment

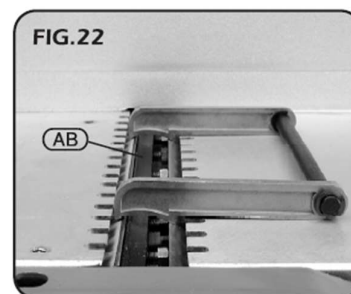
Place blade alignment tool over blade roller (AB). Blade should touch underside of tool without raising it off bed.



#### Planer Thicknesser Tables

Regularly clean the tables of saw dust and more importantly any build up of sap. Apply a small squirt of moisture dispersant/penetration spray and wipe over with a cloth.

Take care to vacuum out saw dust from the thicknesser height adjustment spindles, blade assembly, belt driving housings, anti-kickback fingers and from around the microswitches.



## TROUBLESHOOTING

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