

OSCILLATING SPINDLE/BELT SANDER



TSS04

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TABLE OF CONTENTS

Product Details	3
Specifications	
Product Identification	5
Safety Guidelines	
Assembly	
Operation	
Maintenance	
Troubleshooting	
Exploded Parts List	

Thank You

For the purchase of this ToolShed product. We try our hardest to supply customers like you with the best quality products available, at the best price possible. We cant wait to continue working together in the future.

Please contact us for any servicing, replacement parts, or questions you might have about your ToolShed product by visiting our website, or calling: 0800 948 665.



PRODUCT DETAILS

Product Model ToolShed Oscillating Spindle/Belt Sander

Product Code TSS04

DISTRIBUTED BY:



Note:

This manual is for your reference only. 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



SPECIFICATIONS

Bobbin Speed 2000 RPM

Oscillations 58 OPM

Oscillation Travel 16mm

Sanding Height 90mm

Max Bobbin Working Height 11mm

Sanding Table Dimensions (LxW) 400 x 407mm

Dust Extraction Outlet Diameter 38mm

Operating Voltage and Frequency 230 Volts | 50 Hertz

Input Power @ Rated Load 450 Watts

Sanding Drum Diameters 19mm | 26mm | 38mm | 51mm

Grit Grade 80 Grit

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Sound Pressure Level

LpA: 7dB LWA: 8dB

Uncertainty Factor K 3dB

Vibration aw $< 25 \text{ m/s}^2$

Product Dimensions (LxWxH) 440 x 470 x 500mm

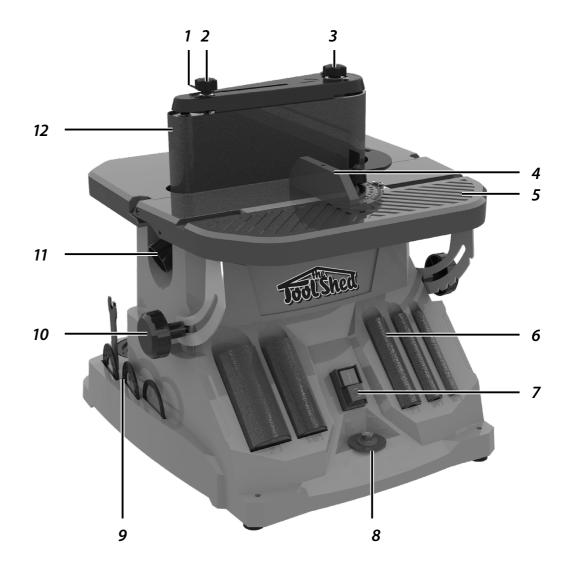
Net Weight 12.5 kg

Intended Use

Bench-mounted sanding machine with a rotating and height oscillating sanding drum. For sanding curved and straight surfaces on intricate as well as larger workpieces. This machine has only been designed for sanding wood or similar materials.



PRODUCT IDENTIFICATION



Included in the box:

1 Belt Adjustment Handle

2 Belt Tension Handle

3 Belt Locking Handle

4 Mitre Gauge

5 Movable Work Table

6 Sanding Drums

7 ON/OFF Switch

8 Sanding Drum Locking Washer/Nut

Workbench Cover Plate

10 Table Locking Handle

11 Dust Extraction Port

2 Sanding Belt

1x 15mm Ø Sanding Sleeve

1x 21mm Ø Sanding Sleeve

1x 28mm Ø Sanding Sleeve

1x 40mm Ø Sanding Sleeve

1x 53mm Ø Sanding Sleeve

1x 14mm Ø Spindle Washer 1x 24mm Ø Spindle Washer

1x 44mm Ø Spindle Washer

1x 20mm Ø Table Insert

1x 26mm Ø Table Insert

1x 33mm Ø Table Insert 1x 45mm Ø Table Insert

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1x 57mm Ø Table Insert

1x Nut

1x Fence

1x Mitre Gauge

1x 19mm Ø x 115mm Sanding Bobbin

1x 26mm Ø x 115mm Sanding Bobbin

1x 38mm Ø x 115mm Sanding Bobbin

1x 51mm Ø x 115mm Sanding Bobbin

4 — WWW.THETOOLSHED.CO.NZ — WWW.THETOOLSHED.CO.NZ — WWW.THETOOLSHED.CO.NZ — WWW.THETOOLSHED.CO.NZ — WWW.THETOOLSHED.CO.NZ





SAFETY GUIDELINES



READ ALL SAFETY WARNINGS & INSTRUCTIONS. Failure to follow instructions and warnings could lead to serious injury, electric shock, or fire.

Work Area Safety

- Ensure that your work area is kept clean and well lit. Lack of visibility and clutter greatly increase the risk of accident when using tools.
- Keep bystanders, pets, and children clear when operating this power tool or machine. They can cause distraction or risk injury to themselves.
- Ensure you are not operating the power tool or machinery in the presence of dust, liquids, flammable gases, or anything that can create an explosive atmosphere.
 Power tools and machinery can create sparks which can lead to ignition and fire hazards in working environments.

Personal Safety

- Always wear personal protective equipment (PPE). Eye protection, ear protection, dust masks, and other protective equipment will help to reduce the risk of personal injury or long-term illnesses.
- Dress appropriately. DO NOT wear 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 in the machine, or they could become caught therein.

- Always remain alert and DO NOT operate power tools or machinery under the influence of any substances such as alcohol or drugs, including prescription medications. Lack of focus could lead to injury or accidents while operating these power tools and machinery.
- Always ensure proper footing and balance. Overreaching can lead to slipping and falling which can result in injury or accident.
- Ensure the power switch is in the OFF position before connecting any battery, or power source to the power tool or machinery. This can cause injury as tools and machinery can suddenly fire incidentally when live, causing accidents.
- Use all provided dust collection and extraction attachments, if included. This equipment, along with the use of PPE dust masks, can help keep you safe from dust, and keep your work site clear from hazards.
- Ensure loose parts such as wrenches or adjusting keys are removed before starting the power tool or machinery.

SAFETY GUIDELINES

Electrical Safety

- DO NOT use the power tool or machinery in rainy conditions or wet areas where the power tool or machinery could get wet.
 Water in this power tool or 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 the risk of electric shock due to your body being earthed or grounded.
- Never carry the power tool by the cord, or yank the cable from the power outlet.
 This can damage the internal wiring and may become a hazard.

WARNING

Electric shock can cause serious injury or, in some cases be fatal.

Power Tool & Machinery Use & 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 tools and machinery from power, or remove batteries before doing any maintenance or adjustments, or before storing the tools and machinery. This reduces or removes the risk of a power connection that causes the tool or machinery to accidentally fire, which can help prevent injury or accident.
- Check the general condition of the power tool for damage or any problems that could affect the way the tool or machine works. An unrepaired tool or machine can lead to accident and injury. Only have your tool or machine repaired with genuine parts from The ToolShed.
- Only use the power tool and machinery with genuine parts or accessories that are designed to be used with this power tool and machinery. Failure to do so could result in accident or injury, or damage your tool or machinery.
- Store your tool or machinery 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.





SAFETY GUIDELINES

Service

 Have your tools and machinery serviced at The ToolShed with ToolShed replacement parts. This will ensure that the safety of the power tool or machine is maintained.



WARNING

The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Always Use Common Sense

- It is not possible to cover every conceivable situation you can face. Always exercise care and use your common sense. If you get into a situation where you feel unsafe, stop and seek expert advise. Contact your dealer, service agent, or an experienced user. Do not attempt any task you feel unsure of!
- Do not let familiarity gained from the frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

Oscillating Spindle Sander Specific Safety

- Always wear safety goggles.
- This machine may only be operated indoors.
- IMPORTANT: Mount and use the machine on a horizontal surface. A non-horizontal surface can damage the motor.
- If the machine tends to tilt or walk (especially when sanding long and heavy panels), it must be fastened to a solid surface of sufficient carrying force.
- Firmly hold the workpiece when sanding.
- Do not wear gloves. Do not hold the workpiece with a cloth during sanding.
- Never sand workpieces too small to be held safely.
- Avoid awkward hand positions where a sudden slip could cause your hand to touch the sanding belt or disc.
- When sanding a large piece of material, provide an additional support at table height.
- Never sand an unsupported workpiece.
 Secure the workpiece with the table or the fence. Exceptions are the sanding of curved workpieces on the outside of the sanding disc.
- Always clear the table, fence or sanding belt of scraps or other objects, before turning the machine on.
- Do not perform any layout assembly or set-up work on the table while the sanding machine is switched on.
- Switch the machine off and unplug the power plug from the socket when fitting or removing accessories.

SAFETY GUIDELINES

- Never leave the working area of the sanding machine while the tool is running, or as long as it has not come to an absolute standstill.
- Always place the work piece on the grinding table. To sharpen bent tools with the grinding disc, place them securely on the table.
- Check the condition of the spindle sander. If any part is missing, bent, or does not operate properly, replace the part before using the sander.
- Be aware of the direction of feed. Feed the workpiece into the sanding sleeve against the direction of rotation of the sanding sleeve.
- Make sure there are no nails or other foreign objects in the area of the workpiece to be sanded.
- Never use this sander for wet sanding. Failure to comply may result in electrical shock, causing serious injury or worse.
- Use only identical replacement parts when servicing this spindle sander.
- Make sure the spindle has come to a complete stop before touching the workpiece.
- Take precautions when sanding painted surfaces. Sanding lead-based paint is NOT RECOMMENDED. The contaminated dust is too difficult to control, and could cause lead poisoning.

When Sanding Paint

- Protect your lungs. Wear a dust mask or respirator.
- Do not allow children or pregnant women in the work area until the paint sanding job is finished and the clean-up is completed.

- Do not eat, drink, or smoke in an area where painted surfaces are being sanded.
- Use a dust collection system when possible. Seal the work area with plastic. Do not track paint dust outside of the work area.
- Thoroughly clean the area when the paint sanding project is completed.



WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

- Lead from lead-based paint,
- Crystalline silica from bricks, cement, and other masonry products, and,
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

8 — — WWW.THETOOLSHED.CO.NZ — WWW.THETOOLSHED.CO.NZ — WWW.THETOOLSHED.CO.NZ — S



Tool Shed

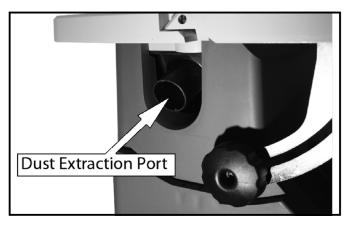
ASSEMBLY

Securing to a Workbench

- If the sander is to be used in a permanent location, it should be fastened securely to a workbench via the four securing holes (one on each corner).
- An alternative method is to fasten the sander to a mounting board. The board should be sufficient size to avoid tipping while in use. Any good grade of 3/4" plywood or chipboard will be sufficient.
- The mounting board can then be clamped to a workbench when required.
- Use the holes in the base of the spindle sander as a template to mark and drill four holes in your intended mounting surface.
- Secure the spindle sander into position using large bolts, washers and nuts (not supplied).
- If using bolts, make sure they are long enough to penetrate the workbench or board sufficiently for a secure fix.

Dust Extraction

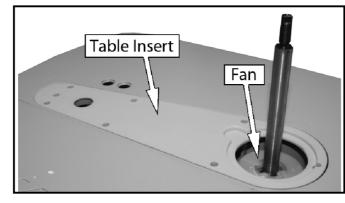
- It is recommended that the spindle sander is used with a dust extraction system for a cleaner and safer work environment.
- The dust exhaust port has an inner diameter of 36mm and an external diameter of 39mm.



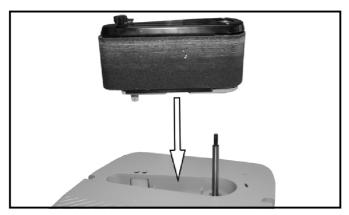
NOTE: Even with a dust collection system, it is necessary to periodically clean sanding dust from the recess in the table. A build up of dust in the table recess may prevent the belt or spindle from making a complete oscillation.

Edge Sanding Setup

- If fitted, remove the fan and table insert from the sander.
- Clear the recess of any debris. Slide the fan onto the motor shaft (vanes face down).
- You may need to rotate the fan to get it to locate properly, (when correctly fitted the fan rotates with the spindle).
- The fan must be used at all times.



• Slide the sanding belt assembly over the spindle as shown below.

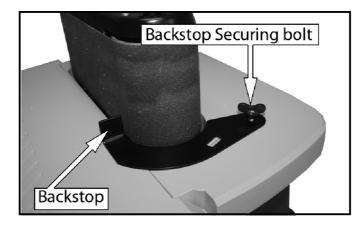


ASSEMBLY

- Fit the washer and hand nut.
- Do not over tighten the hand nut.
- Install the sanding belt (See the following section "Removing/Installing the Sanding Belt").



• Place the backstop into position and secure in place with the backstop securing bolt.

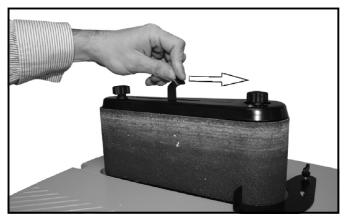


Removing/Installing the Sanding Belt

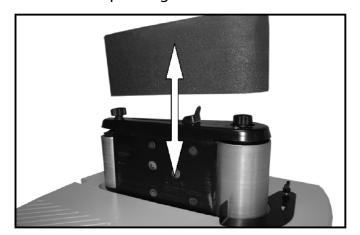


Always be sure that the tool is switched off and unplugged before changing or installing the sanding belt.

• Move the belt tension lever fully to the right as shown.



- Slide the belt over the rollers and centralise the belt.
- The arrows on the sanding belt and machine should be pointing in the same direction.



10 — — — WWW.THETOOLSHED.CO.NZ — — — — WWW.THETOOLSHED.CO.NZ — — — — 11

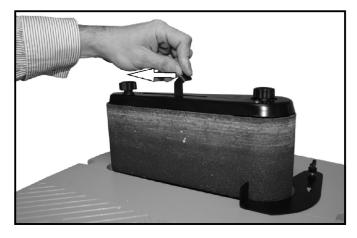


Tool Shed

ASSEMBLY

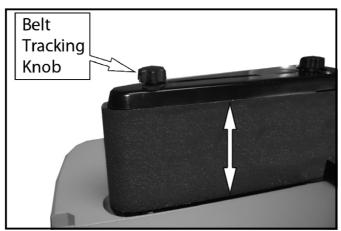
Removing/Installing the Sanding Belt (Cont.)

- Move the belt tensioning lever to the left.
- Keep control of the belt tensioning lever at all times, do not allow it to spring back.
- Make sure the belt tracks correctly before use, see the following section "Sanding Belt Tracking".



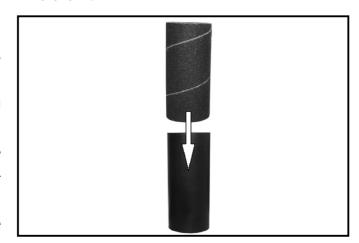
Sanding Belt Tracking

- Plug in the power cable. Turn the switch ON and immediately turn the switch OFF again.
 Note if the belt tends to slide off the drums.
- If it did not tend to slide off, it is tracking properly.
- If the sanding belt runs down (towards the table), turn the tracking knob clockwise 1/4 turn.
- If the sanding belt runs up (away from the table), turn the tracking knob counter-clockwise 1/4 turn.
- Turn the switch ON and immediately OFF again, noting belt movement. Re-adjust the tracking knob if necessary.



Assembling the Bobbin

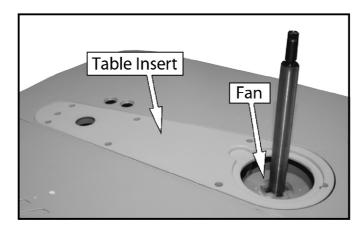
- Slide the sanding sleeve over the drum as shown.
- If the sanding sleeve is difficult to slide over the drum, apply talcum powder to the outside surface of the drum.
- The smallest sanding sleeve slides directly onto the spindle shaft and does not require a drum.



ASSEMBLY

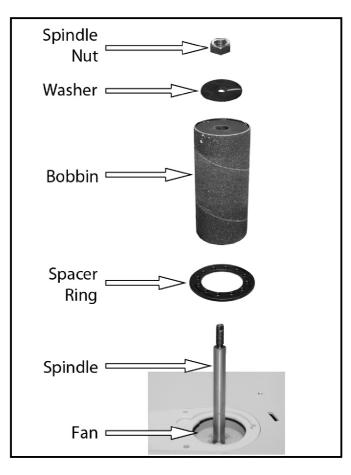
Fitting the Bobbin to the Sander

- If fitted, remove the fan and table insert from the sander.
- Clear the recess of any debris.
- Slide the fan back on to the spindle (vanes face down) and engaged fully.
- The fan must be used at all times.



- Replace the table insert.
- Slide the bobbin onto the spindle.
- Position the spacer ring in the recess on the table insert.
- Use the smallest spacer ring insert that will fit over the drum.
- Install the correct washer.
- Use the largest washer that does not overhang the sanding sleeve.
- Secure everything in place with the spindle nut.
- A spindle nut wrench is supplied.

NOTE: As you tighten the spindle nut, the drum expands outwards slightly to hold the sanding sleeve secure.







OPERATION

Using the Sander



CAUTION

Before turning the switch on, make sure the belt, or drum, and sleeve are properly installed.



WARNING

Always wear safety goggles or safety glasses with side shields when operating power tools. Failure to do so could result in objects being thrown into your ryes, resulting in possible serious injury.

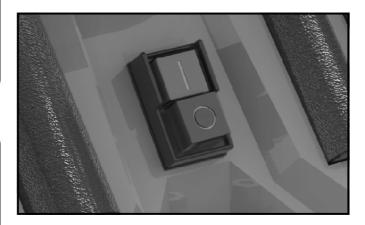


WARNING

Ensure gloves and clothes worn do not have loose threads that could get caught by the rotating spindle and drag your hand or head into the rotating spindle causing severe injury. It is recommended to wear gloves that are not fabric based.

On/Off Switch

- Press green button " " to turn switch ON
- Press red button "O" to turn switch OFF.



When the Sander is Running

- Before starting your work, watch the sander while it runs.
- If it makes an unfamiliar noise or vibrates excessively, stop immediately. Switch off and unplug the sander. Do not restart until identifying and correcting the problem.
- Don't force the sander. It will perform better and safer at its designed rate. Press the workpiece against the sanding sleeve or belt hard enough to begin sanding without binding.

Before Freeing any Jammed Material

- Switch the sander OFF "O".
- Unplug the sander.
- Wait for all moving parts to stop.

Before Leaving the Sander

- Switch the sander OFF "O".
- Do not leave the sander until the unit comes to a complete stop.

OPERATION

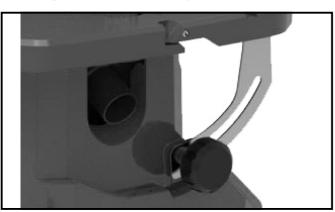
Adjusting the Table Angle



WARNING

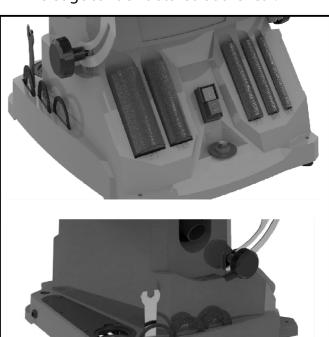
Before performing any adjustment, make sure the sander is switched off and unplugged from the power supply. Failure to heed this warning could result In serious personal injury.

- Loosen the table adjustment knobs (one each side) and move the table to the required angle.
- There are stops on the right hand bracket at the following angles 0, 15, 22.5, 30, and 45 degrees.
- Use a protractor or set square to confirm the angle.
- Retighten both table adjustment knobs.



Parts Storage

- The storage slots on the front are used to store bobbins/sanding sleeves and washers.
- Spindle nut wrench and spacer rings and the are stored on the sides.
- The edge sander is stored at the rear.



14 — www.thetoolshed.co.nz — www.thetoolshed.co.nz — www.thetoolshed.co.nz — 15





MAINTENANCE

- Before cleaning or performing any maintenance, you must ensure the tool is switched off and disconnected from the power supply.
- Compressed air is the most effective way to clean this tool. Always wear PPE safety goggles when cleaning tools with compressed air.
- Ventilation openings and switch levers must be kept clean. DO NOT attempt to clean by inserting pointed objects through openings.
- Regularly check that all the fixing screws are tight. They may vibrate loose over time.
- If you discover any damaged or broken parts, consult your nearest ToolShed for replacements and advise.



Always be sure that the tool is switched off and unplugged before attempting to perform any inspection or maintenance.

Environment & Disposal

- Packaging materials are raw materials and can be re-used. Separate the different packaging materials and take them to the appropriate waste disposal facility. More information can be obtained from your local authorities.
- Old machines do not belong in your household garbage! Dispose of old machines appropriately, we are all responsible for the environment.

Cleaning

- Remove dust and dirt regularly. Frequently blow or vacuum dust away from all sander parts and the motor housing.
- Periodically remove the table insert and lower washer from the spindle and remove any dust accumulation in the table insert area.
- Re-lubricate all moving parts at regular intervals.
- Never use caustic agents to clean plastic parts.
- Do not use cleaning agents to clean the plastic parts of the tool. A mild detergent on a damp cloth is recommended. Water must never come into contact with the tool.

Lubrication

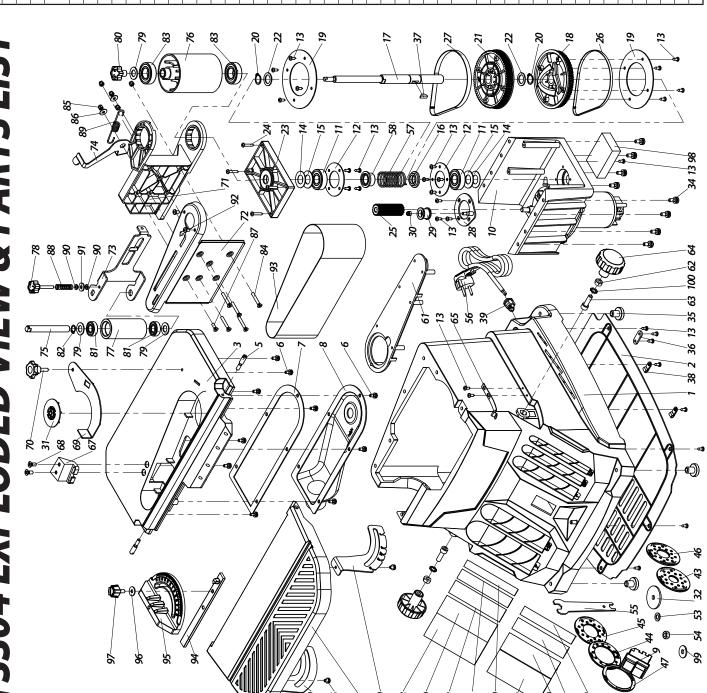
All of the bearings in this sander are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions. Therefore, no further lubrication is required.

TROUBLESHOOTING

FAULT	POSSIBLE CAUSE	SUGGESTED SOLUTION
	On/Off switch damaged	
	On/Off cable damaged	Replace all damaged parts before
	On/Off relay damaged	you use your machine again.
Motor doesn't start	Fuse blown	_
	Motor burnt	Contact your nearest ToolShed. Every attempt to carry out a repair, can be dangerous if it is not done by skilled personnel.
No function when On/Off	No power	Check power supply.
Switch is operated	Defective On/Off Switch	Replace the On/Off Switch at your nearest ToolShed service centre.
Machine gets slower during work	Too much pressure put on the workpiece	Reduce the pressure on the workpiece.
Sanding belt comes off the drive pulleys	Belt does not run straight	Reset the track.
The wood gets burnt	Sanding disc or belt covered with grease	Replace disc or belt.
during sanding	Excessive pressure on workpiece	Reduce pressure on workpiece.
	Loosely mounted tool	Tighten tool.
Strong vibrations	Defective tool	Change tool.
	Spindle knocks	Repair at your nearest ToolShed service centre.
Sanding Sleeve does not rotate with the Drum	Spindle Lock Nut not tight enough	Tighten Spindle Lock Nut in small increments until the Drum secures the Sanding Sleeve.

16 — WWW.THETOOLSHED.CO.NZ — WWW.THETOOLSHED.CO.NZ — WWW.THETOOLSHED.CO.NZ — 17

TSS04 EXPLODED VIEW & PARTS LIST



Baseplate 57 Janus Cylinder Zommx80# Fixed Table 53 Washer 8 Awabel Table 54 Nut M8 Axis Pin X2 Sand Cylinder Sommx80# Axis Pin X2 Wench Axis Pin X2 Wench Axis Pin X3 Washer 8 Axis Pin X3 Washer 8 Axis Pin X3 Axis Pin Bubber Ring X3 Axis Sleeve Dust Port X3 Axis Sleeve Brown X4 Axis Sleeve Brown X4 Axis Sleeve Brown X4 X4	1	Base	5.1	Cand Cylinder 10mm >80#
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Screw, Spring & Flat Washer 57 Spring Busber Ring 58 Avia Sleeve Surtich Motor Motor Deep Groove Ball Bearing X2 67 Ispring Deep Groove Ball Bearing X2 67 Ispring Deep Groove Ball Bearing X2 68 Ispring Deep Groove Ball Bearing X2 69 Ispring Deep Groove Ball Bearing X2 70 Index Plate Handle Screw St4.2x25 x4 74 Sand Belt Tre Sider Spring Backed Plate X2 70 Index Plate Screw St4.2x25 x4 74 Sand Belt Tre Sider Divisor More Shaft Synchronous Belt X7 77 Driven Roller Synchronous Belt X7 77 Driven Roller Diptrening Back Assembly X2 81 Deep Groove Ball Bearing Sand Cylinder Roller Sand Cylinder Roller Screw, Spring & Flat Washer Ball Wine Fixing Button X2 89 Screws MSx3 X3 Deep Groove Ball Bearing Screw, Spring & Flat Washer Ball Wine Fixing Button X2 89 Screws MSx8 X3 Deep Groove Ball Bearing Samm Sand Cylinder Roller Somm Work Table Plate 89 Circlip For Shaft 2 Somm Work Table Plate 99 Washer 5 X2 Dimm Work Table Plate 99 Index Plate Dimm Control Live Marker 80 Index Plate Dimm Control Live Marker 80 Index Plate Dimm Contr	5		7	Wronch
Max12 X2 X2 57 Spring Rubber Ring 58 Axle Sleeve Switch 60 Right Table Support Dust Port 59 Left Table Support Deep Groove Ball Bearing X2 61 Belt Work Table Plate Pressing Plate X2 63 Screw M8x-25 X2 Rubber Blanket X2 64 Iension Handle X2 Resping Press Plate With Wheel X2 65 Leef Spring Recew Spring & Flat Washer Ort Synchronous Belt X2 70 Index Plate Handle 73 Guide Frame Support Plate 77 Support Plate 73 Support Plate 74 Sand Belt Adjusting Handle Supriven Statzening Wheel Assembly 78 Sand Belt Acqiusting Handle 74 Support Plate 75 Support Plate<	9	Screw, Spring & Flat Washer	56	Power Cord
Nutbor Ning 58 Axie Sleeve Switch 50 left Table Support Deep Groove Ball Bearing 26 Nut Mis X2 Pressing Plate X2 G2 Nut Mis X2 Pressing Plate X2 G2 Nut Mis X2 Screw Std.2x12 X32 G4 Tension Handle X2 Aubber Blanket X2 G5 Leaf Spring Recews M8x-2 Cerew Spring & Flat Washer Fett Blanket X2 G5 Leaf Spring Recews M8x-2 Cerew Spring & Flat Washer Fett Blanket X2 G6 M5x-8 X2 Cerew Spring & Flat Washer G7 Teeth Synchronous Belt X2 Cerew Spring & Flat Washer X3 Gride Frame Circlip For Shaft X2 Support Plate X3 Guide Frame X4 Sand Belt Adjusting	1	MISKIZ XZ	57	Spring
Pustrout Motor Deep Groove Ball Bearing X2 Eversity State X2 Screw St4.2x12 X32 Eversity Blanket X2 Eversity Blanker X2 Eversity	\ °	Kubber King	28	Axle Sleeve
World Michael 60 Right Table Support Mobe Groove Ball Bearing X2 61 Belt Work Table Plate Pressing Plate X2 62 Nut M8 X2 Rubber Blanket X2 63 Screws M8x-25 X2 Rubber Blanket X2 64 Tension Handle X2 65 Leaf Spring Felt Blanket X2 65 Leaf Spring Crews M8x-25 X2 Spindle 67 Fixed The Slider 67 Fixed The Slider 69 Teeth Synchronous Belt Wheel 67 Fixed The Slider 68 Screws M6x/14 X2 70 Trighte Frame 70 Index Plate Handle 70 In	o	Dust Port	59	Left Table Support
Presidence Ball Bearing X2 Pressing Plate X2 Screws 544.2x12 X32 Rubber Blanket X2 Rubber Blanket X2 Screws 544.2x12 X32 Rubber Blanket X2 Spindle 69 Teeth Synchronous Belt Wheel 67 Exed The Silder 68 Screws M6x14 X2 Spindle 69 Teeth Synchronous Belt Wheel 67 Exed The Silder 68 Screws M6x14 X2 69 Limit Board Circlip For Shaft X2 70 Index Plate Handle 70 Synchronous Belt Wheel 71 Spring Backed Plate X2 72 Support Plate Synchronous Belt X2 73 Guide Frane 74 Sand Cylinder Roller 75 Sand Belt Adjusting Handle 76 Sand Belt Adjusting Handle 77 Driven Shaft 78 Sand Belt Adjusting Handle 78 Sand Belt Adjusting Handle 79 Washer X3 Nut M5 Sand Cylinder Roller 70 Sand Belt Adjusting Handle 71 Screws M5x5 80 Sand Belt Adjusting Handle 81 Deep Groove Ball Bearing 82 Circlip For Shaft 12 83 Deep Groove Ball Bearing 84 Screws M5x5 86 Nut M5 X5 Root X4 86 Nasher S X2 87 Screws M5x16 88 Regulating Spring 88 Regulating Spring 89 Screws M5x8 80 Washer S X2 81 Deep Groove Ball Bearing 80 Washer S X2 81 Deep Groove Ball Bearing 81 Deep Groove Ball Bearing 82 Circlip For Shaft 12 83 Deep Groove Ball Bearing 84 Screws M5x8 86 Washer S X2 87 Screws M5x8 88 Regulating Spring 89 Extension Spring 80 Washer S X2 80 Washer S X3 80	2 5	Switch	09	Right Table Support
Pressing Plate X2 Screws M8x25 X2 Rubber Blanket X2 Rubber Blanket X2 Rubber Blanket X2 Spindle 69 Screws Apring & Flat Washer 69 Teeth Synchronous Belt Wheel 70 Spring Backed Plate X2 Spring Backed Plate X3 Spri	2 ;		19	Belt Work Table Plate
Screws Mex.25 K2 63 Screws Mex.25 X2 Screw St4.2x12 X32 64 Tension Handle X2 Rett Blanket X2 Leaf Spring & Leaf Spring Felt Blanket X2 Screw, Spring & Hat Washer 65 Leaf Spring Shaft Sleeve 2 Spring Backed Plate X2 A A A Go Teeth Synchronous Belt Wheel A Crews Mex.14 X2 A A Zot Synchronous Belt Wheel A Crew St4.2x A A	=		62	Nut M8 X2
Acrew St4.2x1.2 X3.4 Rubber Blanket X2 Rubber Blanket X2 Rubber Blanket X2 Spirale Spirale Press Plate With Wheel X2 Spirale Press Plate With Wheel X2 Rich Sharkmonous Belt Wheel Press Plate With Wheel X2 Circlip For Shaft X2 Rich Sharkmonous Belt Wheel Spirale Rot Synchronous Belt Wheel Spirale Rot Sharkmonous Belt Wheel Spirale Rot Synchronous Belt X2 Rot Spirale Rot Synchronous Belt Rot Spirale Rot Wheel Synchronous Belt Rot Spirale Rot Rot Shaft Rot	2 ;	۰۱٪	63	M8×25
Felt Blanket X2 Felt Blanket X2 Felt Blanket X2 Forews Spring & Hat Washer Sprindle Fess Plate With Wheel X2 Firsed The Slider For Shaft X2 Firsed The Slider Fame For Shaft X2 Firsed The Slider Fame For Shaft X2 Firsed The Slider Fame For Shaft X3 Firsed Shaft X3 Firsed Shaft X3 For Shaft X3 For X3 For X4 First Rable Fame For Shaft X3 For Shaft X3 For Shaft X3 For X3 For X4 First Rable Fame For Shaft X3 For X4 For Shaft X3 For Shaft	2		64	1
Springle Shart Sleeve 2 Springle Shart Sleeve 2 Springle Shart Sleeve 2 Springle Shart Sleeve 2 Springle Shart Shart Mheel Springle Shart Wheel Springle Shart Shart Spring Backed Plate X2 Springle Backed Plate X3 Springle Fixingle Backed Plate Adjusting Springle Backed Springle Backed Springle Backed Plate Backed Springle Backed Plate Backed Plate Backed Springle Backed Plate Backed Springle Backed Springle Backed Plate Backed Springle Backed Springle Backed Springle Backed Plate Backed Springle Backed Springle Backed Plate Backed Springle Backed Springle Backed Springle Backed Springle Backed Plate Backed Springle Backed Springle Backed Springle Backed Springle Backed Springle Backed Springle Backed Backed Springle Backed Springle Backed Backed Springle Backed Springle Backed Back	4 ;		65	
Spindle Screws Mex14 X2 Spindle Backed Plate X2 72 Support Plate Screws St4.2x25 X4 74 Sand Belt Tension Handle Motor Wheel Screws St4.2x25 X4 74 Sand Belt Tension Handle Screws St4.2x25 X4 74 Sand Belt Tension Handle Motor Wheel Screws St4.2x25 X4 74 Sand Belt Tension Handle Synchronous Belt 77 Driven Roller 77 Driven Roller Tightening Wheel Assembly 78 Sand Belt Lock Handle Sand Cylinder Polser 88 Sand Cylinder Roller 88 Sorews Spring & Flat Washer 88 Nut M5 X5 Crews M6x16 X8 Sand Cylinder Roller 88 Sorews M5x35 X5 Acrews M6x16 X8 Sand Cylinder Roller 88 Sorews M5x35 X5 Acrews M6x16 X8 Sand Cylinder Roller 88 Sorews M5x35 X5 Acrews M6x16 X8 Sand Cylinder Roller 88 Sorews M5x35 X5 Acrews M6x16 X8 Sorews M5x45 Acrews M6x16 Acres Acres M6x16 Acres Acres M6x16 Acr	5 7	Shaft Slowing 2	99	Screw, Spring & Flat Washer
Foreign For Shart Mheel X2 Girdip For Shaft X2 Girdip For Shaft X2 Girdip For Shaft X2 Circlip For Shaft X2 Support Plate Screw St4.2x25 X4 Support Plate Screw St4.2x25 X4 Support Plate Screw St4.2x25 X4 Support Plate A Sand Belt Tension Handle B Sand Belt Tension Spring B Belt B Begulating Spring B Belt B Begulating Spring B Belt B	1 2	Spindle	3	M5×8 X2
Fress Plate With Wheel X2 Circlip For Shaft X2 Circlip For Shaft X2 Support Plate Screw 5k4.2x25 X4 Motor Wheel Motor Wheel Screw 5k4.2x25 X4 Motor Wheel Motor Wh	18	69 Teeth Synchronous Belt Wheel	67	
Circlip For Shaft X2 Ot Synchronous Belt Wheel Spring Backed Plate X2 Support Plate Screw St4.2x25 X4 Support Plate Frame As Screw Stard Belt Tension Handle As Screw Stard Screw St	19	Press Plate With Wheel X2	80	4
Spring Backed Plate X2 Support Plate Screw \$14.2x25	20		2	Index Plate Handle
Spring Backed Plate X2 Support Plate Screw \$44.2x25	21	70t Synchronous Belt Wheel	77	Belt Support
Support Plate Screw \$44.2x25	22		2	Support Plate
Screw 5t4.2x25 X474Sand Belt Tension HandleMotor Wheel Synchronous Belt Synchronous Belt Tightening Rack Assembly Tightening Wheel Assembly Tightening Wheel Assembly Sand Cylinder Pressure Plate Sand Cylinder Pressure Plate Sand Cylinder Pressure Plate Sand Cylinder Roller77Driven Roller Assambly TB78Sand Belt Adjusting Handle Masher X3Connector Sand Cylinder Pressure Plate Sand Cylinder Roller87Sand Belt Lock Handle Sand Belt Lock HandleSand Cylinder Pressure Plate Screw, Spring & Flat Washer87Circlip For Shaft 12Screw, Spring & Flat Washer Mox16 X884Screws MSx35X5Foot X486Washer 5 X2Rable Joint Half Round Key 5x6.588Regulating SpringPly-Yam Drill Samm Sand Cylinder Roller Johnm Sand Cylinder Roller Johnm Sand Cylinder Roller Samm Work Table Plate Sand Cylinder 38mmx80#99Handle26Washer 690Washer 638mm Work Table Plate Sand Cylinder 51mmx80#99Large Washer 85and Cylinder 51mmx80# Sand Cylinder 38mmx80# Sand Cylinder 33mmx80# Sand Cylinder 33mmx80#99Large Washer 8	23		73	Guide Frame
Synchronous Belt 76 Driven Shaft 76 Driven Shaft 77 Driven Roller 78 Sand Belt Adjusting Handle 78 Sand Belt Lock Handle 78 Sand Belt Lock Handle 79 Sand Belt Lock Handle 79 Sand Belt Lock Handle 79 Sand Cylinder Pressure Plate 80 Sand Belt Lock Handle 82 Circlip For Shaft 12 Sand Cylinder Roller 83 Deep Groove Ball Bearing 84 Screws M5x35 X5 Rott M6x16 X8 Rott Masher 86 Washer 5 X2 Cable Joint 87 Screws M5x35 X5 Rott M6x16 X8 Regulating Spring Ply-Yam Drill 88 Regulating Spring Ply-Yam Drill 88 Regulating Spring Ply-Yam Drill 88 Regulating Spring Ply-Yam Drill 89 Regulating Spring 89 Extension Spring 90 Washer 5 X2 Screws M5x8 Belt 19mm Work Table Plate 96 Washer 6 19mm Work Table Plate 96 Washer 6 51mm Work Table Plate 96 Washer 6 51mm Work Table Plate 96 Washer 8 Sand Cylinder 38mmx80# 99 Large Washer 8 Sand Cylinder 38mmx80# 99 Large Washer 8 Sand Cylinder 33mmx80# 100 Outer Tooth Lock Washer 8	24		74	Sand Belt Tension Handle
Synchronous Belt76Drive RollerSynchronous Belt77Driven RollerTightening Rack Assembly78Sand Belt Adjusting HandleTightening Wheel Assembly79Washer X3Nut M580Sand Belt Lock HandleSand Cylinder Pressure Plate82Circlip For Shaft 12Sand Cylinder Poller83Deep Groove Ball BearingScrew, Spring & Hat Washer84Screws M5x35X5Foot X486Washer 5X2Half Round Key 5x6.588Regulating SpringPhy-Yam Drill90Washer 5X2Bomm Sand Cylinder Roller91Rubber Washer26mm Sand Cylinder Roller92Screws M5x819mm Sand Cylinder Roller93Belt26mm Sand Cylinder Roller94Mitre Rods26mm Work Table Plate95Index Plate26mm Work Table Plate96Washer 626mm Work Table Plate96Washer 826mm Work Table Plate96Washer 826mm Work Table Plate96Washer 826md Cylinder 38mmx80#99Large Washer 826md Cylinder 38mmx80#99Large Washer 826md Cylinder 38mmx80#90Large Washer 8	25	Motor Wheel	75	Driven Shaft
Synchronous Belt77Driven RollerTightening Rack Assembly78Sand Belt Adjusting HandleTightening Wheel Assembly79Washer X3Nut M580Sand Belt Lock HandleConnector81Deep Groove Ball BearingSand Cylinder Polste82Circlip For Shaft 12Stimm Sand Cylinder Roller83Deep Groove Ball BearingScrew, Spring & Hat Washer84Screws M5x35X5Foot X486Washer 5 X2Half Round Key 5x6.587Screws M5x35X5Phy-Yam Drill87Screws M5x1619mm Sand Cylinder Roller89Extension Spring19mm Sand Cylinder Roller90Washer 5 X226mm Sand Cylinder Roller91Rubber Washer19mm Work Table Plate92Screws M5x826mm Work Table Plate94Mitre Rods26mm Work Table Plate95Index Plate90Washer 696Washer 819m Work Table Plate96Washer 826m Work Table Plate96Washer 826m Cylinder 51mm×80#99Large Washer 826m Cylinder 38mm×80#99Large Washer 827 Charlonder 38mm×80#90Outer Tooth Lock Washer 8	76	Synchronous Belt	92	Drive Roller
Tightening Rack Assembly Tightening Wheel Assembly Tightening Wheel Assembly Tightening Wheel Assembly Nut M5 Nut M5 Sand Cylinder Pressure Plate Screw, Spring & Flat Washer Screw, Spring & Flat Washer Affect X4 Half Round Key 5x6.5 Bom Sand Cylinder Roller Sand Cylinder Poller Sand Cylinder State Sand Cy	27	Synchronous Belt	77	Driven Roller
Nut M5 Nut M5 Nut M5 Nut M5 Sand Cylinder Pressure Plate Sand Cylinder Pressure Plate Screw, Spring & Hat Washer Foot X4 Half Round Key 5x6.5 Shown Work Table Plate Sand Cylinder Soller Somm Work Table Plate Sand Cylinder Sammx80# Sand Cy	78	Tightening Rack Assembly	78	Sand Belt Adjusting Handle
Nut M5 80 Sand Belt Lock Handle Connector 81 Deep Groove Ball Bearing Sand Cylinder Poessure Plate 82 Circlip For Shaft 12 51mm Sand Cylinder Roller 83 Deep Groove Ball Bearing Screw, Spring & Hat Washer 84 Screws M5x35 X5 Mex16 X8 85 Nut M5 X5 Foot X4 86 Washer 5 X2 Able Joint 87 Screws M5x36 S Half Round Key 5x6.5 88 Regulating Spring Phy-Yam Drill 90 Washer 5 X2 38mm Sand Cylinder Roller 97 Washer 5 X2 26mm Sand Cylinder Roller 97 Mitre Rods 26mm Work Table Plate 95 Index Plate 26mm Work Table Plate 96 Washer 6 38mm Work Table Plate 96 Washer 6 36mm Work Table Plate 96 Washer 6 36md Cylinder 51mm×80# 99 Large Washer 8 36md Cylinder 51mm×80# 99 Large Washer 8 36md Cylinder 38mm×80# 90 Outer Tooth Lock Washer 8	29	Tightening Wheel Assembly	79	
Sand Cylinder Perssure Plate Sand Cylinder Perssure Plate Sand Cylinder Perssure Plate Sand Cylinder Post X4 Satisfy Sand Sand Cylinder Roller Samu Work Table Plate Sand Cylinder S1mm×80# Sand Cylinder S3mm×80# Sand Cylinder S4mm×80# Sand Cylinder S4m	30	Nut M5	80	Sand Belt Lock Handle
Sand Cylinder Roller 82 Circlip For Shaft 12 S1mm Sand Cylinder Roller 83 Deep Groove Ball Bearing Screw, Spring & Flat Washer 84 Screws MSx35 X5 Foot X4 86 Nut MS X5 Cable Joint 87 Nut MS X5 Cable Joint 87 Screws MSx16 88 Half Round Key 5x6.5 88 Regulating Spring Bly-Yam Drill 89 Extension Spring Bly-Yam Drill 90 Washer 5 X2 Semm Sand Cylinder Roller 91 Rubber Washer 92 Semm Sand Cylinder Roller 93 Belt 94 Mitre Rods 26mm Work Table Plate 94 Mitre Rods 95 Index Plate 26mm Work Table Plate 96 Washer 6 96 Washer 6 19mm Work Table Plate 96 Washer 6 96 Washer 8 26mm Work Table Plate 96 Washer 8 96 Large Washer 8 27md Cylinder 38mmx80# 96 Large Washer 8	37	Connector	81	Deep Groove Ball Bearing X2
Screw, Spring & Flat Washer 83 Deep Groove Ball Bearing Screw, Spring & Flat Washer 84 Screws M5x35 X5 Foot X4 86 Washer 5 X2 86 Washer 5 X2 Cable Joint 87 Screws M5x16 88 Regulating Spring Half Round Key 5x6.5 88 Regulating Spring 89 Extension Spring Ply-Yam Drill 90 Washer 5 X2 89 Extension Spring 18mm Sand Cylinder Roller 90 Washer 5 X2 80 Masher 5 X2 26mm Sand Cylinder Roller 91 Rubber Washer 92 Screws M5x8 13mm Work Table Plate 93 Belt 94 Mitre Rods 26mm Work Table Plate 95 Index Plate 96 Washer 6 19mm Work Table Plate 96 Washer 6 96 Washer 6 19mm Work Table Plate 96 Washer 6 96 Washer 8 19mm Work Table Plate 96 Washer 8 96 Large Washer 8 25md Cylinder 38mmx80# 96 Large Wash	3 5	Sand Cylinder Pressure Plate	82	Circlip For Shaft 12
Screw, 2pting or rate washer 84	2	Simm Sand Cylinder Roller	83	Deep Groove Ball Bearing X2
Foot X4	34	Screw, Spring & Flat Washer M6×16 X8	84	M5×35
Cable Joint Half Round Key 5x6.5 Install Wire Fixing Button X2 88 88 88 89 89 89 89 89 89 89 89 89 89	35	×	82	\times
Half Round Key 5x6.5 Install Wire Fixing Button X2 Ply-Yam Drill 38mm Sand Cylinder Roller 26mm Sand Cylinder Roller 19mm Sand Cylinder Roller 19mm Sand Cylinder Roller 19mm Sand Cylinder Roller 19mm Work Table Plate 26mm Work Table Plate 26m	36	Cable Joint	98	Washer 5 X2
Phy-Yam Drill 1909	37	Half Round Key 5×6.5	87	Screws M5×16
Ply-Yam Drill 89 38mm Sand Cylinder Roller 90 26mm Sand Cylinder Roller 91 19mm Sand Cylinder Roller 92 13mm Work Table Plate 94 26mm Work Table Plate 96 26mm Work Table Plate 96 51mm Work Table Plate 96 51mm Work Table Plate 97 51mm Work Table Plate 97 5and Cylinder 51mm×80# 98 5and Cylinder 38mm×80# 99 5and Cylinder 13mm×80# 99	38		88	Regulating Spring
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13mm Work Table Plate 94 38mm Work Table Plate 95 26mm Work Table Plate 96 19mm Work Table Plate 97 51mm Work Table Plate 97 5and Cylinder 51mm×80# 99 5and Cylinder 38mm×80# 100	42	19mm Sand Cylinder Roller	2 2	Screws M3X0
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51mm Work Table Plate 97 51mm Work Table Plate 97 Sand Cylinder 51mm×80# 99 Sand Cylinder 38mm×80# 100	45	26mm Work Table Plate	96	Washer 6
Sand Cylinder 38mm×80# Sand Cylinder 38mm×80# Sand Cylinder 13mm×80# 100	40	Igmm Work lable Plate	97	Handle
Sand Cylinder 3 IIIIII x 80# 99 Sand Cylinder 13mm×80# 100	4	Simm Work lable Plate	86	Circuit Board
Sand Cylinder 13mm >80# 100	40	Sand Cylinder 38mm<80#	66	Large Washer 8
	7 5	Sand Cylinder 13mm×80#	100	Outer Tooth Lock Washer 8 X2