

10" TABLE SAW OPERATING INSTRUCTIONS MODEL: TS10F



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GENERAL SAFETY RULES



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

- 1. Know your machine. For your own safety, read the owner's manual carefully. Learn its application and limitations, as well as specific potential hazards pertinent to this machine.
- 2. Make sure all tools are properly earthed.
- 3. Keep guards in place and in working order. If a guard must be removed for maintenance or cleaning, make sure it is properly replaced before using the machine again.
- 4. Remove adjusting keys and spanners. Form a habit of checking to see that the 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
- 8. from the work area.
- 9. Make workshop childproof. Use padlocks, master switches and remove starter keys.
- 10. Do not force the machine. It will do the job better and be safer at the rate for which it is designed.
- 11. 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.
- 12. 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.
- 13. Always use safety glasses. Normal spectacles only have impact resistant lenses. They are not safety glasses.
- 14. Do not over-reach. Keep proper footing and balance at all times.
- 15. Maintain the machine in good condition. Keep the machine clean for best and safest performance. Follow instructions for lubrication and changing accessories.
- 16. Disconnect the machine from power source before servicing and when changing the blade.
- 17. Never leave the machine running unattended. Turn the power off. Do not leave the machine until it comes to a complete stop.
- 18. Do not use any power tools while under the effects of drugs, alcohol or medication.
- 19. 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 CIRCULAR SAWS

- 1. Ensure that the saw table is clear of off-cuts, tools or anything else that might foul the work-piece.
- 2. If your saw has a dust extractor hose connected to the crown guard, ensure that it is held clear of the table and will not foul the work-piece as it passes over the table.
- 3. When cutting large sheets of material or long boards use one or more roller stand(s) to support the work or have a competent helper to support it as it feeds off the rear of the table.
- 4. Never use the saw without the riving knife and check that it is in line with the blade before using the saw.
- 5. Always use a brush to clear the table of dust or debris. NEVER use your hands, especially when the machine is running.
- 6. ALWAYS USE A PUSH STICK WHEN IT IS NECESSARY TO PUSH ANY PIECE OF MATERIAL OF SUCH SIZE THAT IT WOULD BRING YOUR HANDS WITHIN 30 CM OF THE BLADE.
- 7. Do not cut material that is badly warped or which has screws or nails in it
- 8. Be extra vigilant when cutting stock which has loose knots in it as these may fly out of the saw.
- 9. NEVER remove the table insert when the saw is running.
- 10. To avoid exposure to hazardous dust, do not use this saw without connecting it to a dust extractor.

11. Always work with a sharp saw blade and feed the work at a rate suited to the thickness and hardness of the material.

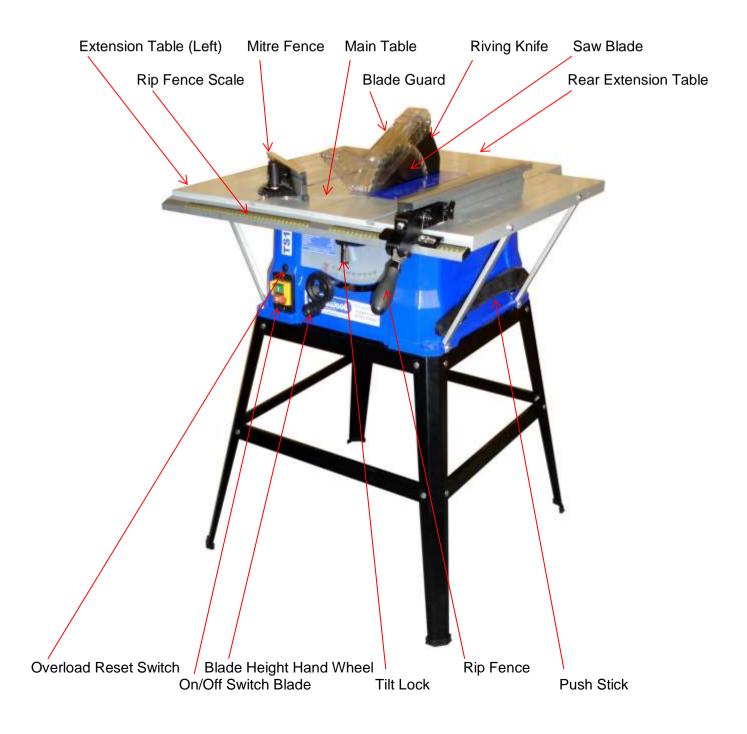
Note: This table saw has been designed and built solely as a woodworking machine. Do not modify it in any way or use for anything other than its designated purpose. Neither the manufactures nor the supplies are liable for any damage or injury caused by incorrect assembly, operation or electrical connection of this machine.







Overview of the TS10F Table Saw



TS10F Specification

Main Table Size
Table Size with Extensions
Table Height
Motor (Carbon Brush)
Blade Diameter x Kerf x Bore
Blade Tilt Range
Blade Rotation Speed (No Load)
Maximum Depth of Cut 90/45 degrees
Cutting width against Rip Fence
Dust Extraction Outlet
Weight
Manufacturer's Warranty
Rating

430mm x 640mm 730mm x 760mm 890mm 1500W (2hp), 240v 254mm (10") x 2.8 x 16mm (5/8") 0 - 45 degrees 4500rpm 85mm/60mm 270mm 42mm 25kg 1 Year Hobby

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



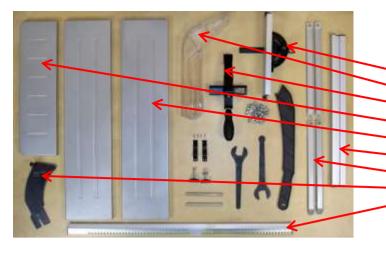
All parts of the Table Saw are contained in one box. Open the box and carefully unpack the contents.

A polystyrene packing piece is fitted to the motor to protect it during transit.

This needs to be removed before use. Turn the table saw upside down, loosen the tilt lock and rotate the Rise & Fall handwheel to tilt the blade fully.

The packing can then be removed.

Polystyrene Packing Block



Layout all of the small parts and check them against the image here.

Mitre Guide
Blade Guard
Rip Fence Carrier
Rear Extension Table
Side Extension Tables
Rip Fence Extrusion
Table Support Brackets
Riving Knife
Front Rail

Check the floor stand components against the image here.

Plastic Feet

Legs

Short Top Leg Braces

Long Top Leg Braces

Long Bottom Leg Braces

Short Bottom Leg Braces

Fixing Bolts / Nuts / Washers





Important –All bolts should be left only finger tight until the leg stand is complete and standing on a level surface.

When assembling the floor stand: Use an M6 x 12mm coach bolt, a plain washer, a spring washer & a nut in each hole.

Each component has an identifying letter stamped into it.

Attach the upper end of two legs (A) to either end of a long upper brace (B). Ensure the brace is positioned on the inside of the legs.



Attach a long lower brace (C) to the lower holes in the legs.

Repeat steps with the remaining legs and long leg brackets.



Join the two frames together with the short upper and lower leg brackets.



Press a plastic foot onto the end of each of the four legs.

Place the completed floor stand on a level surface and adjust it so that all 4 legs are contacting the floor and the stand is symmetrical.

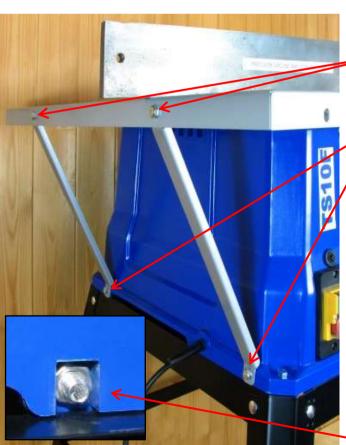
Tighten all the nuts.

Saw Assembly



Mounting Bolts - Front and rear





Attach the Saw to the floor stand

Place the saw onto the floor stand and align the four holes in the corners of the base with the holes in the top of the stand.

Use four M6 x 25mm hex head bolts, plain washers and nuts, attach the saw to the leg stand.

Please note – Do not over tighten these bolts as this would damage the saw base.

Attach the left-hand extension table

Use three M6 x 16mm bolts, with a spring washer and a plain washer.

Pass the bolt through the extension table and into the threaded hole in the main table.

Ensure that the table and extension are level before tightening.

NOTE: the hole in the end of the extension must be positioned at the front of the saw.

Attach the two table supporting braces.

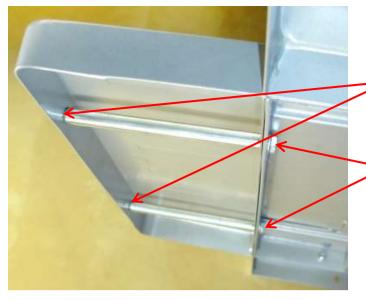
Use an M6 x 16 bolt, washer & nut to attach the upper end of each brace to the extension table.

Then repeat for the lower end of the brace. The nuts for the lower end are retained in a recess moulded into the inside of the saw base.

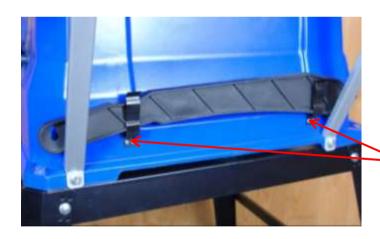
Before tightening the bolts, use a straight edge to level the extension with main table.

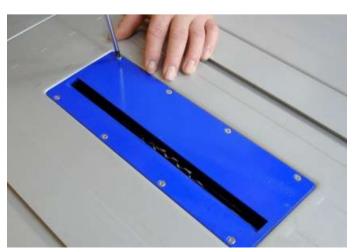
Repeat the procedure to assemble the right-hand table extension.

Inside view of lower fixing bolt









Attach the rear extension table to the main table. Use four M6 x 12mm bolt with spring washer and standard washer.

Take the two strengthening bars, place them inside the extension table and insert the bolts into the end of the bar, next to the rounded side of the table.

Then attach the rear extension table to the main table by passing a bolt through the edge of the main table into the end of the strengthening bars.

Use a straight edge to check the rear extension is level with the main table and then fully tighten the bolts.

Attach the Front Rail

Slide the heads of six M6 x 16mm bolts into the T-shaped slot in the front rail.

Slide the bolts until they align with the six holes in the front edge of the table.

Attach the rail using a washer, spring washer and nut onto each bolt.

Attach The Push Stick Clips

Locate the small holes in the right hand side of the saw body.

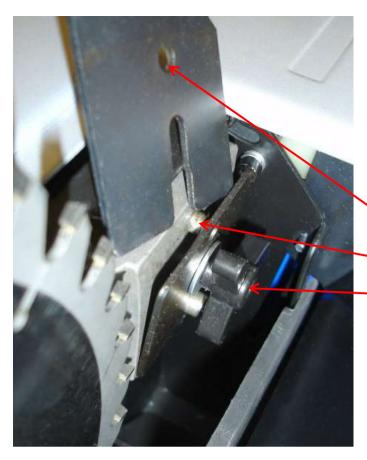
Use the four screws provided to attach the two spring clips.

Spring Clips

The push stick can be stored in these when not in use.

Assemble the Riving Knife

Undo the eight screws holding the table insert and remove the plate.



Ensure that the blade is raised to its highest position and is set to 90 degrees.

Loosen the Thumb screw Slide the riving knife down behind the locking plate, so that the locating pin is in the slot. Continue until the locating hole is engaged in the locating pin.

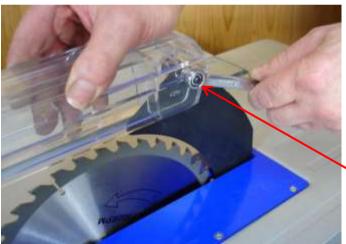
Tighten the thumb screw.

Riving Knife Locating Hole

Locating Pin

Thumb Screw

Replace the table insert and tighten eight fixing screws.



Attach the Blade Guard

Remove the M6 x 45mm bolt, washer and lock nut from the top of the riving knife.

Fit the blade guard over the top of the riving knife so that the holes align and attach using the bolt.

M6 x 45mm Bolt with lock nut



Tighten the lock nut to a point where the guard is still free to move.

The front of the guard should rest on the table.

When a work piece is pushed against the front of the guard it will lift over the work piece.

The guard should return to rest on the table after the work piece has been cut.





Place the Rip Fence Carrier on the front rail of the saw.

The carrier can be positioned to the left or right side of the blade as required.

Lock the carrier by pressing down on the handle which will clamp it to the front rail.



Slide the heads of the two M6 x 35mm coach bolts into the T-shaped channel of the rip fence extrusion.

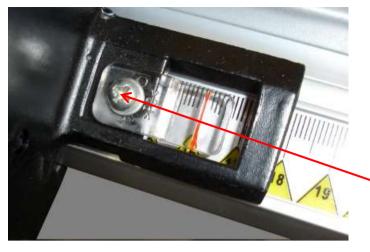
Position the thumb screws and washers into the recess in the rip fence carrier and tighten them.

The rip fence can be used in the High or Low position.

The standard assembly is the High position.



The low position is used for cutting narrow strips, close to the blade and avoids the fence, fouling on the saw guard.

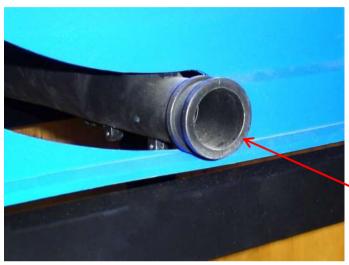


The width of cut is set using the red line on the scale reader.

Check the setting by moving the rip fence up to the saw blade and locking the fence in place. The scale should now read zero.

If the scale requires any adjustment undo the screw on scale reader and slide the Perspex piece until the scale is set.

Loosen this screw to adjust the scale reader.



Dust Extraction

It is strongly recommended that a suitable dust extractor or vacuum cleaner is used at all times.

Failure to do so will lead to a build-up of sawdust inside the machine. When this happens it will need to be stripped down and cleaned out to prevent poor performance.

42mm Diameter Dust Extraction Outlet

Setting Controls



Overload Reset Switch

The saw is equipped with Overload protection. This will automatically stop the saw if it is overloaded.

To reset, disconnect the power supply and allow the motor to cool for approximately five minutes, then press the button. The On-Off switch can now be operated as normal.

ON-OFF Safety Switch

The saw is fitted with a safety switch which will prevent it restarting unexpectedly in the event of an interruption in the power supply.

Always ensure that the blade guard is correctly fitted before starting the machine and never stand directly in front of the blade. Wait until the blade has reached full speed before starting to cut

Push the green button to start and the red to stop.

Warning: Overheating may be caused by the use of an under-sized extension cable, a cable that is too long or which is wound, or a dull or misalignment blade. Check for the cause before restarting the machine.



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Blade Height Adjustment

The Height Adjustment Handle is used to raise and lower the blade.

Turn clockwise to lower the blade and ant-clockwise to raise it.

Blade Height Adjustment Hand Wheel

Before making a cut, set the blade height so that only the teeth of the blade sit above the piece to be cut.

Bevel Adjustment Lock

To tilt the blade, first loosen the bevel lock then swing the assembly along the slot until the required angle is indicated against the scale. Lock the lever firmly before use.

Blade Tilt Locking Handle

Warning: Never attempt to tilt the blade while it is running.

The Rip Fence – The Rip Fence is used for making longitudinal cuts usually with the grain of the timber.

Set the fence to the required the dimension using the scale reader.

The fence can be fitted to either the left or right of the saw blade.

Clamp in position by pressing down firmly on the locking handle.

Fence Locking Handle



The Mitre Fence

The Mitre Fence is usually used when cutting across the grain or for cutting at an angle.

Insert the fence into one of the slots in the table. Set the angle by loosening the locking knob and reading off the scale.

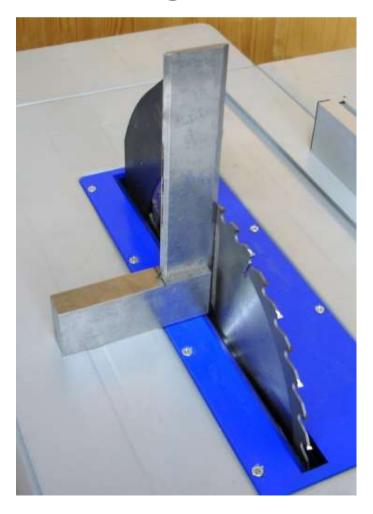
The fence can be used to the left or right of the blade.

To set the support fence, loosen the two thumb screws and slide the aluminium fence so that it is supporting the workpiece as closely as possible to the blade.

Making A Cut

- Ensure there is enough space around the table for the work piece before starting the cut.
- Position your feet in a stable and balanced stance.
- When feeding the timber, place your hands on the section of timber being kept.
- Never hold the waste part of the timber.
- Never force timber through the saw, always let it cut at its own speed.
- When cutting narrow pieces always use the push stick provided.

Fine Tuning



Blade Angle Stop Adjustments

The saw has positive stops that will enable the blade to be set quickly at 90 degrees and 45 degrees. These are set during manufacture, but might need adjustment after extensive use.

To adjust the stops:

Disconnect the power supply

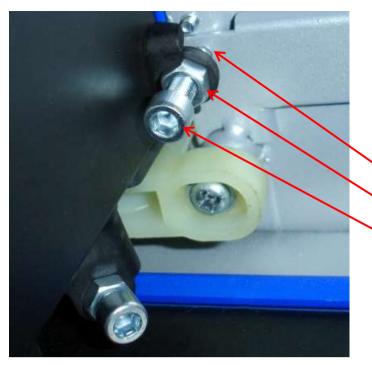
Remove the saw blade guard

Raise the blade to its maximum height

Tip the machine onto its side to access the setting screw

Turn the 90 degree set screw anticlockwise to allow free adjustment of the blade

Using a square, set the blade at exactly 90 degrees to the table



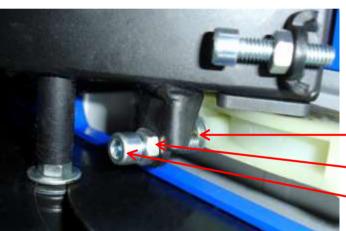
Tighten the 90 degree set screw until it makes contact with the underside of the table

Check the setting by tilting the blade away from 90 degrees and then gently back until it stops. Check the angle again, if it is correct, secure this setting by tightening the lock nut.

Adjust against underside of table

Lock Nut

90 Degree Set Screw



Move the blade to the 45 degree position.

Repeat the process, using the 45 degree set screw which locates against the head of another screw.

Adjust against this screw

Lock Nut

45 Degree Set Screw

Maintenance



Ensure the replacement blade is the correct size; Blade Diameter 254mm (10") Blade Bore 16mm (5/8") Blade Thickness (Kerf) 2.8mm

Replacing the Saw Blade

Disconnect the saw from the power supply. Undo the blade crown guard bolt and remove it. Fully lower the blade.

Remove the table insert plate.

Raise the blade to its maximum height.

Hold the outer blade flange stationary with the smaller open-ended spanner.

Use the other spanner to remove the arbor nut.

Note: The Arbor Nut has a normal, right hand thread.

Remove the worn blade and fit the replacement, ensuring that it is correctly seated on the arbor. Ensure the teeth are facing downwards at the front of the saw table.

Refit the parts removed earlier.





Replacing the Carbon Brushes

After every 20 hours of running, it is necessary to check the carbon brushes in the motor for wear.

The carbon brushes must be replaced when the carbon block has less than 5mm of material remaining. Failure to replace them in time may cause damage to the motor armature.

Remove the riving knife, blade guard and any fences. Fully lower the blade and invert the saw.

Tilt the blade to 45 degrees and lock into position.

The two brush holders are located on the end of the motor on either side.

Brush Holder

Use a flat screw driver, remove the plastic brush cover cap.

Using pointed nose pliers or a small screwdriver pull out the worn brush.

Check the length and condition of the carbon block. If it is damaged or shorter than 5mm, it should be replaced.

Insert the new brush and refit the cap.

Repeat for the second brush situated on the opposite side of the motor.

Troubleshooting

Problem	Cause	Remedy
Machine does not start	Blown Fuse	Replace Fuse
	Loose switch terminal	Inspect back of switch
	Damaged / worn brushes	Replace brushes
	Faulty switch	Replace switch
Only starts when Green button is held down	Faulty switch	Replace switch
Saw runs erratically	Worn or damaged carbon brushes	Replace brushes
Saw vibrates	Damaged teeth on saw blade	Check & replace the blade
	Floor stand is loose	Check all nuts and bolts for tightness
Cuts are slow, wood is blackened	Saw blade is blunt or damaged	Examine the blade. If any Tungsten tips are missing or broken the blade should be replaced.
Saw stalls	Feed rate too high	Slow down
Lower saw guard fills with dust	No extraction fitted or extraction not working efficiently	It is advisable to use a vacuum extractor or chip collector with this machine. If one is being used, check for blockages in the hose
Blade height difficult to adjust	Adjusting rod obstructed by dust build up	Clean and lubricate the mechanism



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

Declaration of Conformity for CE Marking

Charnwood Declare that Circular Saw Bench, Model TS10F

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

EMC Directive 2014/30/EU

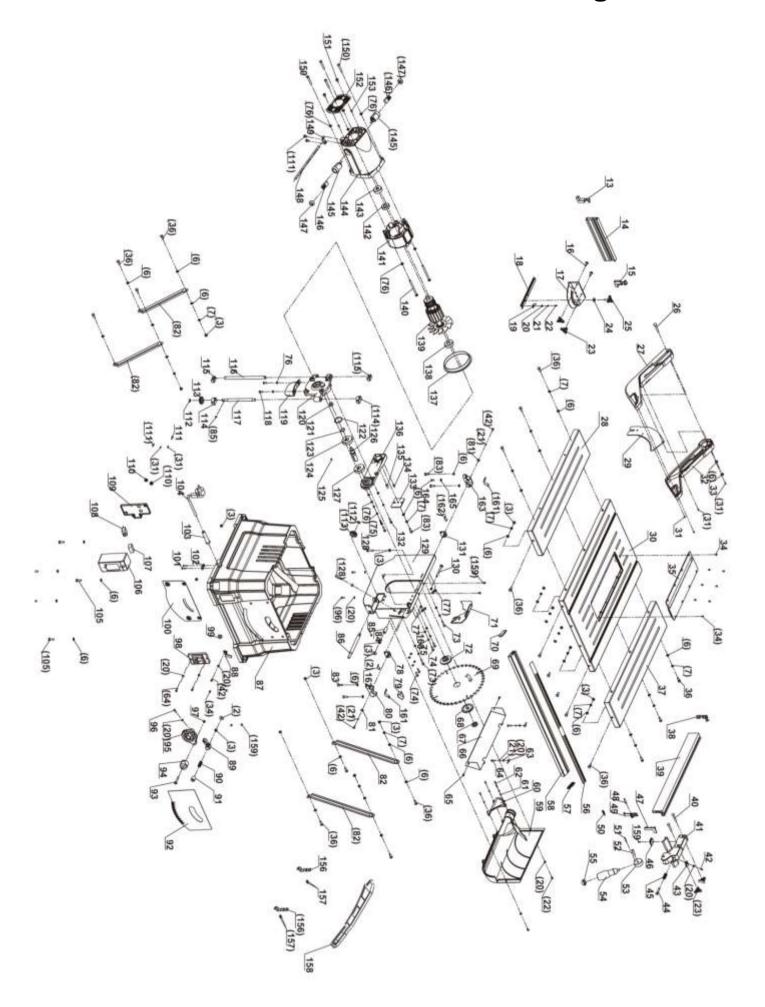
And further conforms to the machinery example for which the EC type examination Certificate No. BM 50303375 and E8A160341469 have been issued by TUV Rheinland LGA Products GmbH, Tillystrasse 2, 90431 Nurnberg, Germany.

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

Signed: Cocation: Leicestershire

Richard Cook, Director

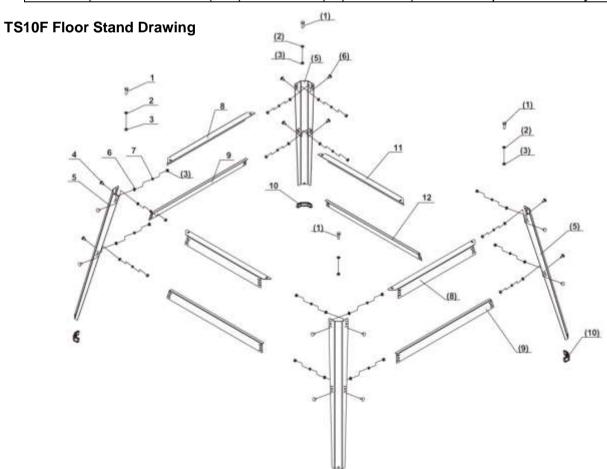
TS10F Table Saw Parts Drawing



TS10F Parts List

Part No.	Description	Part No.	Description
001	Hex Bolt	002	Large Flat Washer
003	Hex Nut	004	Screw
005	Stand Leg	006	Flat Washer
007	Spring Washer	008	Top Leg Bracket A
009	Bottom Leg Bracket B	010	Rubber Foot
011	Top Leg Bracket D	012	Bottom Leg Bracket C
013	Fence Block A	014	Fence for Mitre Gauge
015	Fence Block B	016	Screw
017	Mitre Gauge	018	Rip Fence
019	Pointer	020	Flat Washer
021	Spring Washer	022	Screw
023	Tri-wing Knob	024	Flat Washer
025	Locking Knob	026	Bolt
027	Blade Guard - Left	028	Left Extension Table
029	Riving Knife	030	Main Saw Table
031	Screw	032	Blade Guard – Right
033	Locking Nut	034	Screw
035	Table Insert	036	Bolt
037	Right Extension Table	038	End Cap B
039	Guide Tube	040	Bolt
041	Rip Fence Bracket	042	Screw
043	Pointer	044	Spring
045	Screw B	046	Friction Pad
047	End Cap A	048	Pin Axis A
049	Clamping Screw	050	Clamping Block
051	Spring Pin	052	Pin Axis B
053	Eccentric Wheel	054	Handle Body
055	Handle Cover	056	Scale Label
057	Closure Plate B	058	Front Rail
059	Cover A	060	Cover B
061	Flat Washer	062	Screw
063	Flapper Pin	064	Screw
065	Bolt	066	Flapper
067	Thin Nut	068	Outer Flange
069	Saw Blade	070	Closure Plate A
071	Liner	072	Inner Flange
073	Bolt	074	Screw
075	Spring washer	076	Flat Washer
077	Screw	078	Rotating Plate B
079	Friction Plate	080	Holder A
081	Large Flat Washer	082	Extension Table Support Bracket
083	Screw	084	Locking Bush
085	Flat Key	086	Lift Adjustment Lever
087	Cabinet	088	Pointer
089	Locking Handle	090	Spring
009	Locking Handle Cover	090	Tilt Angle Label
093	Screw	092	Rotary Knob
095	Hand wheel	094	Screw
095	Locking Nut	098	On/Off Switch
	Nut	100	
099			Strengthening Liner Pin
101	Screw	102	「!!!

Part No.	Description	Part No.	Description
103	Cable Strain Relief	104	Power Cable
105	Screw	106	Switch Box Assembly
107	Capacitor	108	Overload Protection
109	Switch Box Cover	110	Tight Line
111	Screw	112	Shaft Collar
113	Bevel Gear	114	Position Block
115	Column Pad	116	Guide Column
117	Lifting Pole	118	Screw
119	Lower Board	120	Front Cover
121	Bearing	122	Hole Collar
123	Shaft Collar	124	Gear
125	Woodruff Key - 5 x 6.5 x 16	126	Axis
127	Bearing	128	Screw
129	Body Assembly	130	Screw
131	Rotating Plate A	132	Screw
133	Riving Knife Plate	134	Position Block
135	Position Pin	136	Fixed Block
137	Comfort	138	Bearing
139	Rotor Assembly	140	Screw
141	Stator	142	Bearing
143	Damping Ring	144	Motor Case
145	Brush Holder	146	Brush
147	Nut	148	Motor Cable
149	Crimping Board	150	Screw
151	Screw	152	Cover
153	Screw	154	Blade Spanner A
155	Blade Spanner B	156	Push Stick Clip
157	Screw	158	Push Stick
159	Screw	160	Large Flat Washer
161	Vane	162	Gap Film
163	Holder A	164	Screw
165	Large Flat Washer		
BRUSH	Carbon Brushes (Pair)	MOTOR	Motor Complete Assembly





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