

SAFETY AND OPERATING MANUAL Router Table & Sliding Carriage RTS784



ORIGINAL INSTRUCTION



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Explanation of Symbols

The symbols and their meanings shown below may be used throughout this manual. Please ensure that you take the appropriate action wherever the warnings are used.

Mandatory Instructions



Read and fully understand the instruction manual before attempting to use the machine.



Indicates an instruction that requires particular attention



Wear protective eyewear



Use respiratory protective equipment



Use hearing protection



Use suitable protective footwear



Use protective work gloves

Warnings



Indicates a risk of severe personal injury or damage to the machine



Indicates a risk of severe personal injury from electrical shock



Risk of personal injury from lifting of heavy items



Indicates a risk of severe personal injury from airborne objects



Risk of fire





Ensure that you carefully read and fully understand the instructions in this manual before assembly, installation and use of this product. Keep these instructions in a safe place for future reference.

WARNING: for your own safety, do not attempt to operate this machine until it is completely assembled and installed according to these instructions.

WARNING: When using any machine, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury.

Safe Operation

1. Use Personal Protective Equipment (PPE)

- The operation of any machine can result in foreign objects being thrown into your eyes, which can result in severe eye damage.
 Protective eye wear or other suitable eye protection or face shield should be used at all times. Everyday spectacles only have impact resistant lenses. They are not protective eye wear and do not give additional lateral protection.
- Use respiratory protective equipment (dust mask etc.) if the machining operation creates dust. Exposure to high levels of dust created by machining hardwoods, softwoods and man made composite boards can result in serious health problems. Some imported hardwoods give off highly irritating dust, which can cause a burning sensation. The use of respiratory protective equipment should not be seen as an alternative to controlling the risk of exposure at source by using adequate dust extraction equipment.
- The use of ear plugs or ear defenders is recommended when the machine is in use, particularly if the noise level exceeds 85 dB.
- Wear suitable protective gloves when handling cutting tools or blades. Gloves should NOT be worn when using the machine as they can be caught in moving parts of the machine.
- Non-slip safety footwear is recommended when using the machine and handling large work pieces.

2. Whilst machining

 Before starting work, watch the machine while it runs. If it makes an unfamiliar noise or vibrates excessively, switch the machine 'OFF' immediately and disconnect it from the power supply. Do not restart until finding and correcting the source of the problem.

3. Keep the work area clear

- Working clearances can be thought of as the distances between machines and obstacles that allow safe operation of every machine without limitation. Consider existing and anticipated machine needs, size of material to be processed through each machine and space for auxiliary stands and/or work tables. Also consider the relative position of each machine to one another for efficient material handling. Be sure to allow yourself sufficient room to safely operate your machines in any foreseeable operation.
- Cluttered work areas and benches create the risk of accidents. Keep benches clear and tidy away tools that are not in use.
- Ensure that the floor area is kept clean and clear of any dust and debris that may create trip or slip hazards.

4. Store machines safely when not in use

 When not in use, machines should be stored in a dry place, out of reach of children. Do not allow persons unfamiliar with these instructions or with the machine to operate it.

5. Extension cables

- Whenever possible, the use of extension cables is not recommended.
 If the use of an extension cable is unavoidable, then it should have a minimum core cross section of 2.5 mm² and limited to a maximum length of 3 metres.
- Extension cables should be routed away from the direct

General Health & Safety Guidance

6. Stay alert

- Safety is a combination of operator common sense and alertness at all times when the machine is being used.
- Use all machines with extreme care and do not use the machine when you are tired or under the influence of drugs, alcohol or medication.

7. Use the correct tool for the job

- Do not use the machine for any purpose other than which it was designed.
- When selecting replacement cutting tools and blades, always ensure that they are designed to cut the material that you intend to use them for. If in any doubt seek further advice from the manufacturer.

8. Connect dust extraction equipment

- Always use dust extraction equipment. The dust extractor should be of suitable size and capacity for the machine that it is connected to and have a filtration level appropriate to the type of waste being collected. Refer to the relevant section of the manual for details of the specific dust extraction requirements for this machine.
- The dust extractor should be switched 'ON' before starting the machine that it is connected to. The dust extractor should be left running for 30 seconds after the last machining operation is complete in order to clear any residual waste from the machine.

9. Ensure that the machine is correctly guarded

- Never use the machine if any of the standard safety guards and equipment are removed or damaged.
- Some machines incorporate safety interlocks to prevent the machine from being used without the guards in place. Never attempt to bypass or modify the interlocks to allow the machine to be used without the guards in place.

10. Maintain your machine with care

- This manual gives clear instructions on installation, set up and operation of the machine and also details any routine and preventative maintenance that should be performed periodically by the user.
- Remember always to switch off and unplug the machine from the power supply before carrying out any setting up or maintenance operations.
- Follow any instructions for the maintenance of accessories
 and consumables.
- Do not use compressed air to clean the machine.
 Always use a brush to dislodge dust in places that are awkward to reach and a dust extractor to collect the waste.
- Inspect electric cables periodically and, if damaged, have them replaced by an authorised service facility or qualified electrician.
- Inspect extension cables (if used) periodically and replace if damaged.

11. Keep cutting tools sharp and clean

- Correctly maintained cutting tools are easier to control and less likely to bind.
- Cutting tools and blades can become hot during use. Take extreme care when handling them and always allow them to cool before changing, adjusting or sharpening them.

12. Disconnect the machine from the power supply

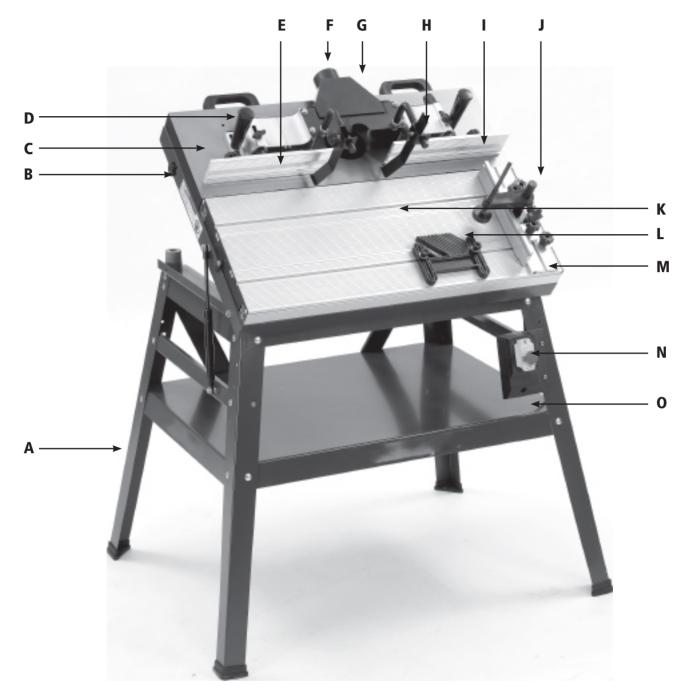
 When not in use, before servicing, changing blades etc. always disconnect the machine from the power supply.

13. Check for damaged parts

- Before each use of the machine, it should be carefully checked to determine that it will operate properly and perform its intended function.
- Check for alignment of moving parts, binding of moving parts, breakage of parts and any other conditions that may affect the operation of the machine.
- Do not use the machine if the switch does not turn the machine 'ON' and 'OFF'.







- **A** Floor stand
- B Table Retention Knob
- C Cast Iron Table
- D Fence Lock Knob
- E Left Fence

- F Dust Hood Outlet
- **G** Dust Hood
- **H** Work Clamps
- I Right Fence
- J Sliding Table Work Clamp
- K Sliding Table
- Pressure Pad
- M Sliding Table Push Plate
- No Volt Release Switch
- O Shelf

Specifications

Suitable routers: 3/4 - 5 hp

Cast iron table size: 784 x 250 mm Sliding Table Surface: 784 x 310 mm

Table Insert outer diameters: 100 mm

Table Insert inner diameters: 60 and 29 mm

Table height from floor: 850 mm

Left and right hand fence sizes: 303 x 74 mm

Extraction port diameter: 57 mm

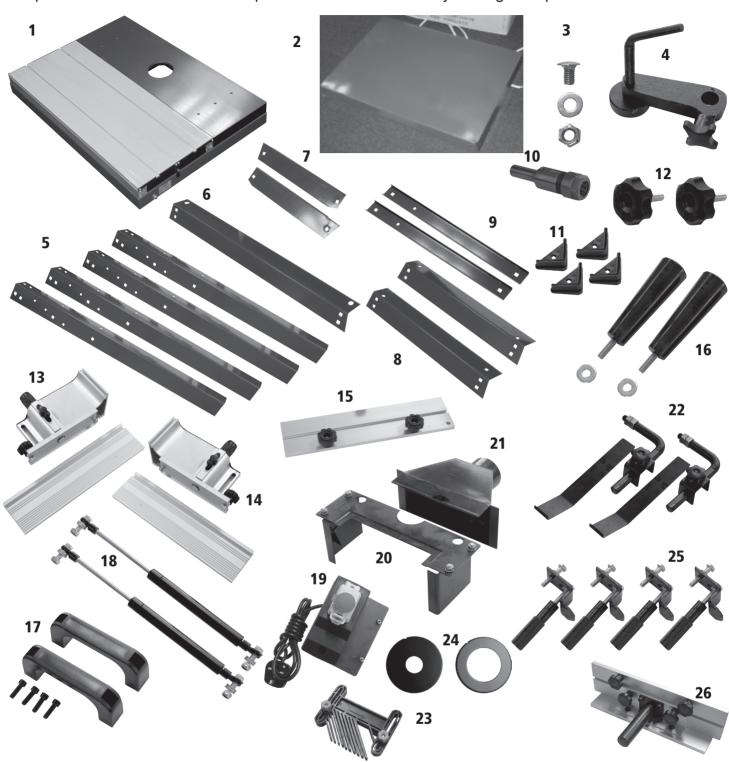
Weight: 56 kg

Size: H1040 x W1010 x D780 mm



Contents of the Package

Ensure all loose items are present as listed in the manual. Remove the rust prevention oil thoroughly. Use a soft cloth moistened with white spirit or other degreaser. Do not use gasoline or lacquer thinner to remove the rust prevention oil as these may damage the paint surface.



- 1 Table assembly
- 2 Stand shelf
- 3 M8 x 12 mm carriage bolts, nuts and washers x 28
- 4 Work clamp
- 5 Stand legs x 4
- 6 Front upper brace
- **7** Reinforcing struts x 2
- 8 Upper side braces x 2
- **9** Gas spring struts

- 10 Collet Extension
- 11 Rubber feet x 4
- 12 Table retention knobs x 2
- 13 Right fence mount and fence
- 14 Left fence mount and fence
- 15 Push plate
- 16 Fence handles x 2
- 17 Table handles x 2 and securing bolts x 4
- **18** Gas springs x 2
- 19 Switch box and power cord (UK plug shown)

- 20 Fence assembly bracket
- 21 Dust extraction hood
- 22 Work clamps and mounts x 2
- 23 Pressure pad
- 24 Table inserts x 2 (29 and 60 mm internal diameters)
- 25 Router clamps x 4
- 26 Sliding table work clamp mount



With a 14 mm wrench use the carriage bolts, nuts and washers, to attach the stand legs to the stand shelf, using the square holes in the legs and stand. Ensure the washers are placed behind the nuts, on the insides of the legs. The stand legs must be assembled so the ends without holes are at the bottom, **Fig. 7.1**.

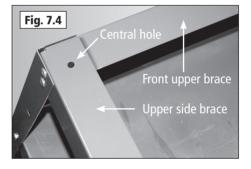
Attach the Front upper brace to the tops of the two legs which are on the same side as the label on the shelf, **Fig. 7.2**.

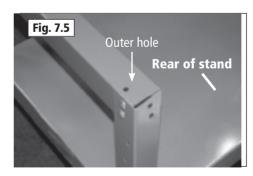
Attach the upper side braces to the tops of the legs, **Fig. 7.3**. Ensure they are over the top of the front upper brace where they overlap, **Fig. 7.4**, so that the circular holes in the upper side braces are uppermost. At each end of the upper side braces are single holes, one positioned centrally, **Fig. 7.4**, and the other towards the edge of the brace. The end of the brace with the hole near the edge must be positioned at the rear of the stand ie. at the side of the shelf without the label, **Fig. 7.5**.















Attach the reinforcing struts to the rear of the stand, **Fig. 7.6**, with the upper parts positioned on the inside of the stand legs as shown in **Fig. 7.7**.

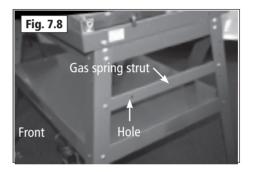
Attach the gas spring struts to the sides of the stand, ensuring the circular hole in each strut is positioned closest to the front of the stand, **Fig. 7.8**.

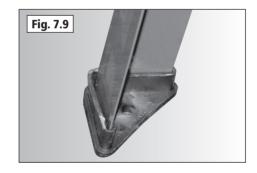
With the assembled stand on level ground, tighten all nuts and bolts and attach the rubber feet to the bottoms of the legs, **Fig. 7.9**.

Fit the switch box to the lower two circular holes on the front right hand leg of the stand with the pre-installed nuts and bolts using a 10 mm wrench and Phillips screwdriver, **Fig. 7.10**.















Attaching the Table to the Stand

To aid with assembly, attach both lifting handles to the holes on the edge of the cast iron table using a 5 mm hex wrench, **Fig. 7.11**.

The table assembly has the table mounts already attached to each side.

At the side of the assembly that features the aluminium sliding table are two sets of pre-installed securing nuts, bolts and washers, and at the side featuring the cast iron table are two sets of rubber supports, nuts and washers, **Fig. 7.12**. Before placing the table on the stand remove all four sets of fixings.





Warning

The table assembly is heavy. It is recommended that two people lift and position the table on the stand.

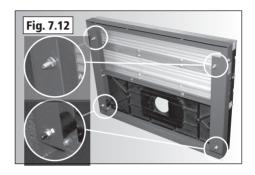
Carefully place the table on the stand as shown in **Fig. 7.13**, ensuring the side of the assembly with the cast iron table is at the rear of the stand (the side which features the reinforcing struts).

Align the holes of the table assembly with the holes at the front of the stand, beneath the aluminum sliding table, and secure in place with the nuts, bolts and washers using a 14 mm wrench, **Fig. 7.14**.

Using the lifting handles, lift the table and place the rubber supports through the holes in the stand, **Fig. 7.15**, and secure with the nuts and washers using a 14 mm wrench and 6 mm hex wrench.

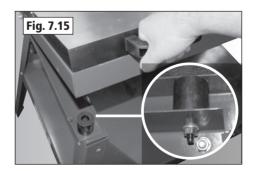
Ensure all fixings are fully tightened before proceeding.











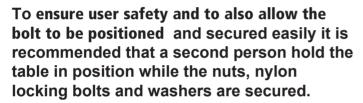
Fitting the Gas Springs

The gas springs are supplied with nylon locking nuts, bolts and washers attached and these must be removed prior to installation.



To allow free movement of the gas springs, do not fully tighten the fixings

Attach the lower end of the first gas spring to the hole in the gas spring strut, Fig. 7.16 Ensure the washers are placed as shown in Fig. 7.16 to give enough clearance between the gas spring and the stand leg to allow movement. 14 and 12mm wrenches are required to secure the nuts. Lift the table to allow the top of the gas spring to be attached to the table assembly as shown in Fig. 7.17. Ensure one washer is in contact with each surface as shown.



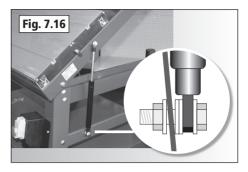
The second gas spring can now be attached in the same way to the opposite side of the stand and table assembly.

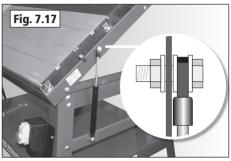
When both gas springs are fitted, push the table into its horizontal position and fit the table retention knobs to both sides of the table to hold it in position, **Fig. 7.18**.

Assembling the Fence Assembly

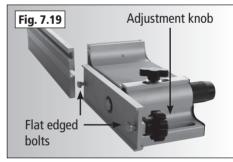
Each fence mount has two flat edged bolts protruding from it, one held in place with a nylon locking nut and the other with an adjustment knob, **Fig. 7.19.**

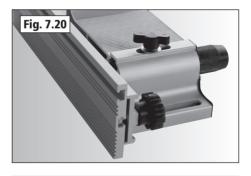
To attach the fence extrusions to the left and right fence mounts, slide the fence extrusions over the flat edged bolts and tighten with the adjustment knob, **Fig. 7.20**. Tighten the nylon locking nut on the other flat edged bolt and then loosen slightly. This will give as much support as possible to the fence extrusion whilst allowing free movement when the adjustment knob is loosened. To access the nylon locking nut, loosen the locking knob on top of the fence mount then wind the fence extrusion outwards away from the mount using the adjusting knob on the rear of the fence mount, **Fig. 7.21**.

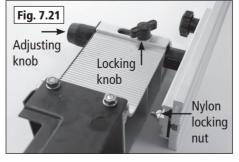










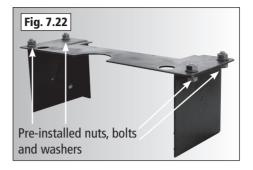


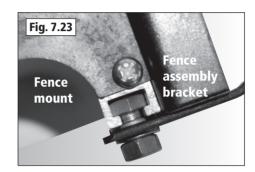


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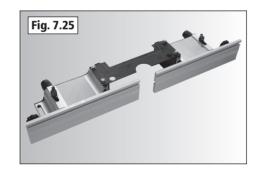
Attach the left and right hand fences to the fence assembly bracket using the pre-installed nuts, bolts and washers as shown in **Fig. 7.22** with a 10 mm wrench. Ensure the fixings are positioned as in **Fig. 7.23**. To make sure the fences are parallel, align the front of the fence assembly bracket with the fronts of the fence mounts, **Fig. 7.24**.

Once assembled, the fences and bracket should be as **Fig. 7.25**.











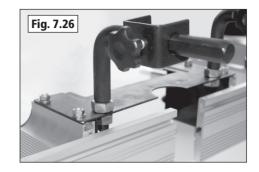


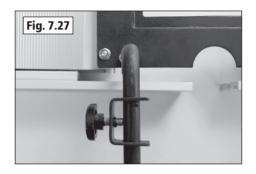


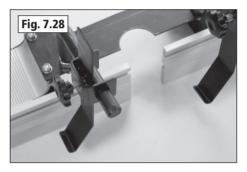
Attach the work clamp mounts to the fence assembly bracket using the two nuts pre-installed to the work clamp mounts and securing into the two holes on top of the fence assembly bracket with a 19 mm wrench, **Fig. 7.26**. Ensure the mounts are secured at 90° to the bracket as in **Fig. 7.27**.

Place the work clamps into the mounts as shown in **Fig. 7.28**, so the angled parts of the clamp are facing to the left.

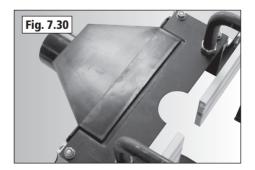
The dust extraction hood should now be fitted to complete assembly. This slots in the two gaps at the rear of the fence assembly bracket as shown in **Fig. 7.29**. When fitted the flange of the hood should fit flush inside the recess of the fence assembly bracket as in **Fig. 7.30**.











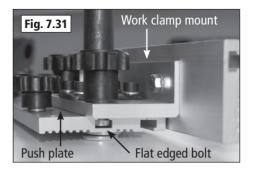


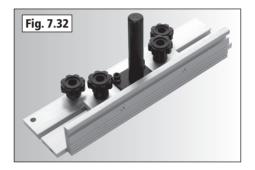


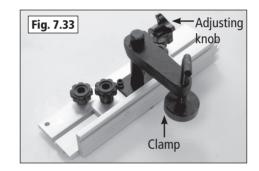


Assembly of the Sliding Table Work Clamp With the push plate positioned face down and the knobs uppermost, fit the sliding table work clamp mount to it by engaging the flat edged bolts beneath the clamp mount to the push plate, Fig. 7.31. Align the clamp mount centrally on the push plate and tighten the adjusting knobs, Fig. 7.32.

To complete assembly, attach the clamp to the clamp mount using the adjusting knob located on the side of the clamp, **Fig. 7.33**.









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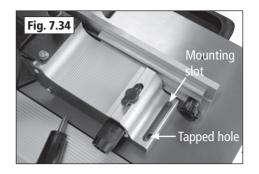


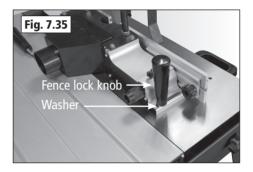
Fitting the Fence Assembly, Sliding Table Clamps & Pressure Pad to the Router Table

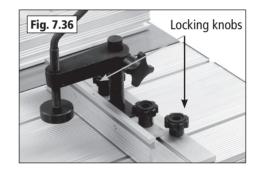
The cast iron table has three sets of two tapped holes on either end. To attach the fence assembly place it so the required holes are visible through the mounting slots at either end as in **Fig. 7.34** and secure to the table using the fence handles and washers, **Fig. 7.35**.

To attach the sliding table work clamp to the sliding table, position the flat edged bolts to engage with the slots in the table. Move the clamp to the desired position and tighten the locking knobs to secure in place, **Fig. 7.36**.

To attach the pressure pad to the sliding table, engage the bolts beneath the pressure pad into the slots on the table and tighten the locking knobs, **Fig. 7.37**.















Fitting a Router to the Router Table

To gain access to the underside of the table, remove the table retention locking knobs.



The gas springs can push the table up with considerable force. Apply downward pressure to the table before fully removing the knobs to control the table's movement.



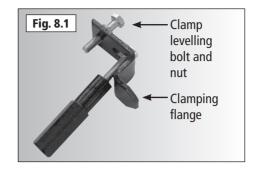
To be used with the router table all routers must have the RPMS-CX Collet Extension fitted. For fitting instructions refer to the router manual.

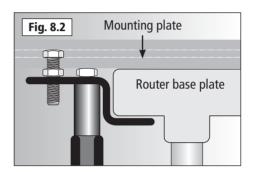
Each of the four router clamps features a clamp levelling bolt and nut, **Fig. 8.1.** This should be set to a position that will allow the bolt to be slid into the grooves on the router mounting plate whilst also keeping the clamp as close to the mounting plate as possible, **Fig. 8.2**. This mechanism allows the height of the clamp to be adjustable to allow routers with a larger base plate to be used as shown in **Fig. 8.3**.

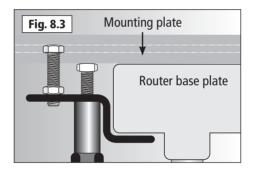
Slide the four router clamps onto the mounting plate beneath the table

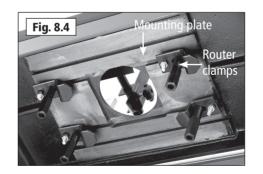
as shown in **Fig. 8.4**. The plate features four slots to allow a wide variety of clamp positions to ensure virtually any size and design of router

be fitted. Some experimentation may be required to find the best clamp positions to hold the router securely.









Fitting a Router to the Router Table

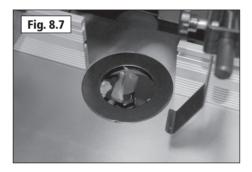
Place the router on the mounting plate with the router bit positioned centrally in the table opening, **Fig. 8.5**. Once the clamps are positioned over the router base as shown in **Fig. 8.6** tighten them by hand to hold the router in position then tighten further using a 14 mm wrench on the hexagonal shafts of the clamps.

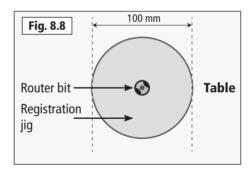
To help centralise the router in the table opening, use one of the table inserts to check the position of the router bit as shown in **Fig. 8.7**. Further accuracy can be achieved by making a registration jig with a central opening small enough to allow the smallest router bit available to pass through, **Fig. 8.8**.

Plug the router into the rear of the switch box, **Fig. 8.9**. Before plugging the switch box into the power supply, ensure the router switch is in the on position to ensure the no volt release switch will work correctly.



















Operation





WARNING:

Before attempting to make adjustments to any settings make sure that the power supply to the machine is switched off and the supply cord is removed from the outlet.

Setting the Fences

The workpiece is passed from right to left (into the anti-clockwise movement of the router bit) when using the router on the router table as shown in **Fig. 9.1**, therefore the right hand fence should be positioned first.

The fence assembly is locked to the table by the two fence handles which can be located in three sets of holes in the cast iron table to achieve the desired position, **Fig. 9.2**, and facing to either the front or back of the router table.

Once the fence assembly is secured, further adjustment can be made by loosening the fence locking handles and sliding the assembly within the range allowed by the mounting slots, **Fig. 9.2**.

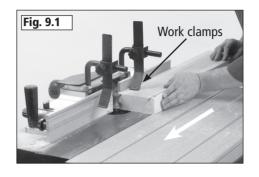
Fine adjustment to the right hand fence position can be made my loosening the locking knob and turning the depth adjustment knob, **Fig. 9.2**.

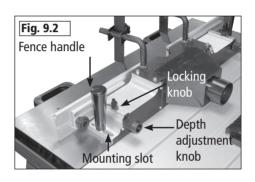
After the right hand fence has been positioned as desired, use the same method to position the left hand fence. Depending on the type of cut being made, the fence will either need to be in the same position as the right hand fence, **Fig. 9.3**, or set forward of the right hand fence, **Fig. 9.4** to support the workpiece after the cut.

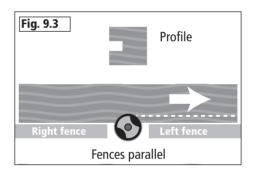
Both fences must also be adjusted to give maximum protection from the router bit by being positioned as close as possible to it, **Fig. 9.5**. Make sure the fences do not touch the router bit.

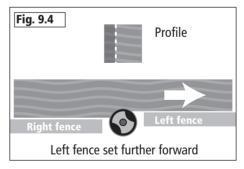


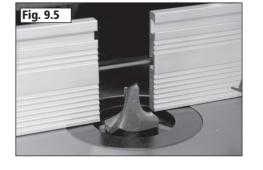
The work clamps on the fence assembly must always be used to secure the workpiece as shown in **Fig. 9.1**. These help keep the workpiece in position and greatly reduce the chance of it being thrown from the router bit during cutting.















Operation

Using the Sliding Table

Before using the sliding table the lock tabs on either side of the table must be disengaged by rotating them 180° to be clear of the table assembly, **Fig. 9.7**.

When larger workpieces are being machined, it is recommended that

the sliding table be used. Use the sliding table work clamp to hold the workpiece to the table by screwing it firmly down onto the workpiece as shown in **Fig. 9.8**. The push plate lock knobs can be loosened to allow the clamp mount to slide to a new position if required.

Always use the sliding table work clamp when machining end grain as shown in **Fig. 9.9** to give more accurate results and optimise safety.



In addition to the two holes for the locking knobs that hold the push plate at 90°, there is another hole near one end of the push plate, **Fig. 9.10**. Remove the closest lock knob from the push plate and reposition it into this hole. When the push plate is remounted to the sliding table it will be at a 45° angle as shown in **Fig. 9.10**.

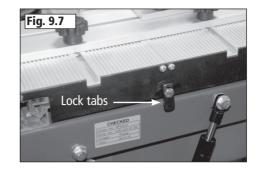
Using the Pressure Pad

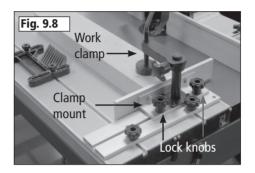
Whenever possible the pressure pad should be used to add extra pressure to help keep the workpiece held against the fence. It is particularly useful when machining long timber. Ensure the pad is pressed up against the timber with the flexible strips bowing slightly as shown in **Fig. 9.11** before tightening the locking knobs.

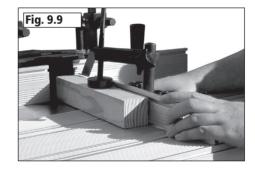


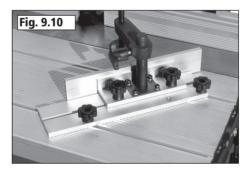
Whenever possible always use a push stick when feeding the workpiece manually towards the cutter and ensure that hands are kept clear of the cutter.

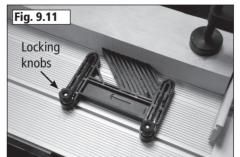
When using the sliding table the workpiece should always be clamped with the work clamp and hands should be behind the push plate.









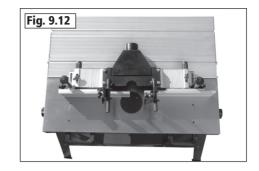


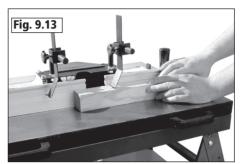
Operation

Using the Cast Iron Table

When machining small workpieces use of the sliding table may be unnecessary and use of the cast iron table may be preferable. The fence assembly can be turned around and re-fixed to two holes closer to the sliding table as shown in **Fig. 9.12**.

Using the cast iron table also gives better access as the operation can take place much closer to the edge of the table, **Fig. 9.13**.



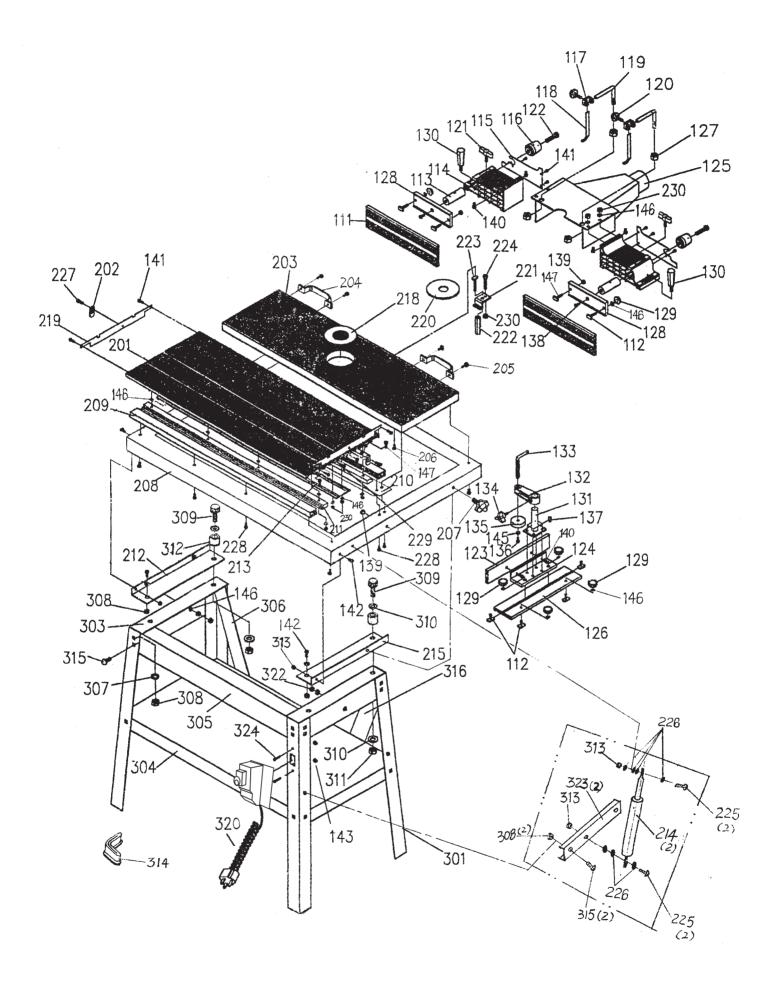


Dust Extraction

The Importance Of Dust Extraction Before the machine is started, ensure that adequate dust extraction provisions have been installed. Dust extraction is extremely important not only for health and safety but also for the correct upkeep of the machine. Saw dust can cause the machine not to operate properly or even fail completely. By keeping the machine free of large amounts of waste the performance will be optimised.

If a large amounts of MDF or toxic woods are to be cut we recommend that there is a good ventilation system in place and that in addition to proper extraction a mask or respirator be worn as minimum protection.

Parts List & Diagram



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Parts List & Diagram

Part No.	Description	Quantity	Part No.	Description	Quantity
111	Fence extrusion	2	211	Slide rail	2
112	Sliding screw M6 x 20 mm	6	212	Table left support	1
113	Micrometric adjustment rod	2	213	Fix piece	2
114	Fence mount	2	214	Gas spring	2
115	Fence mount guard	2	215	Table right support	1
116	Micrometric adjustment rod	2	218	60 mm insert plate	1
117	Hold-down holder	2	219	Guard	2
118	Hold-down	2	220	29 mm insert plate	1
119	L bar	2	221	Motor clamp piece	4
120	Knob M8 x 16 mm	2	222	Hexagonal clamp shaft	4
121	Wing screw M10 x 20 mm	2	223	Sliding screw M6 x 50 mm	4
122	Hexagonal socket head screw M10 x	2	224	Hexagonal screw M6 x 25 mm	4
123	45 mm Fence plate	1	225	Hexagonal screw M8 x 30 mm	4
124	Clamp holder	1	226	Thick washer 8 mm	16
125	Dust hood	1	227	Hexagonal screw M6 x 12 mm	2
126	Push plate	1	228	Round cross head screw M5 x 10	8
127	Nut M12	4	229	mm Hexagonal screw M6 x 12 mm	16
128	Clamp plate	2	230	Nut M6	32
129	Knob nut M6	6	302	Stand leg	4
130	Fence handle	2	303	Upper side brace	2
131	Clamp bracket	1	304	Shelf	1
132	Bracket	1	305	Front upper brace	1
133	Clamp rod	1	306	Reinforcing strut	1
134	Knob M6 x 20 mm	1	307	Washer 8	28
135	Clamp plate	1	308	Nut M8	30
136	Round cross head screw M5 x 10 mm	1	309	Hexagonal socket head screw M8 x	2
137	Hexagonal socket head screw M6 x	4	310	40 mm Washer 8 mm	4
138	12 mm Hexagonal screw M10 x 16	2	311	Nut M8 mm	2
139	mm	4	312	Rubber support	2
140	Nylon locking nut M6	6	313	Nylon locking nut M8	6
141	Hexagonal screw M6 x 12 mm	26	314	Rubber foot	4
142	Round cross head screw M5 x 12 mm	4	315	Screw M8 x 12 mm	28
143	Hexagonal screw M8 x 25 mm	4	316	Reinforcing strut	1
144	Nut M5	2	317	Switch box	1
145	Hexagonal screw M6 x 20 mm	1	320	Power cable	1
146	Washer 5	50	321	Round cross head screw M6 x 40	2
147	Washer 6	10	322	mm Nut M6	4
201	Hexagonal screw M6 x 25 mm	10	323	Gas spring strut	2
202	Sliding table	2	324	Round cross head screw M5 x 40	2
202	Locking tab	1	324	mm	۷
204	Fixed table	2		11111	
205	Table handle	4			
206	Hexagonal socket head screw M6 x	4			
207	20 mm Hexagonal screw M8 x 20 mm	2			
207	Knob screw M8 x 30 mm	1			
209	Table assembly frame	2			
210	Slide way	1			
210	Middle bracket	1			
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