

THRIVING ON INNOVATION
LAGUNA TOOLS



Universal Sliding Table System Manual

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Dear Woodworker:

Thank you for your purchase and welcome to the Laguna Tools group of discriminating woodworkers. I understand that you have a choice of where to purchase your machines and appreciate the confidence you have in our products.

Every machine sold by Laguna Tools has been carefully designed and well thought through from a woodworker's perspective. I use our bandsaws, lathes, table saws, combination machines and edgebanders. Through my hands-on experience, I work hard to make our machines better. I strive to give you machines that inspire you to create works of art. Machines that are a joy to run and work on. Machines that encourage your performance.

Today, we offer high-performance machines with innovative solutions that meet the needs of woodworkers and their ever-evolving craft.

I started Laguna Tools as a woodworker; I still am.

Thank you again for becoming a Laguna Tools customer.

Torben Helshoj

President and Founder - Laguna Tools

Thriving on Innovation

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Safety Rules

As with all machinery there are certain hazards involved with the operation and use. Using it with caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. If you have any questions relative to the installation and operation, do not use the equipment until you have contacted your supplying distributor.

Read the following carefully before operating the machine:

1. Keep the working area clean and be sure adequate lighting is available.
2. Do not wear loose clothing, gloves, bracelets, necklaces or ornaments. Wear face, eye, respiratory and body protection devices as indicated for the operation or environment.
3. Be sure that the power is disconnected from the machine before tools are serviced or an attachment is to be fitted or removed.
4. Never leave the machine with the power on.
5. Do not use dull, gummy or cracked cutting tools.
6. Be sure that the keys and adjusting wrenches have been removed and all the nuts and bolts are secured.

Limited Warranty

New woodworking machines sold by Laguna Tools carry a one-year warranty from the date of shipping. Laguna Tools guarantees all new machines sold to be free of manufacturers' defective workmanship, parts, and materials.

We will repair or replace, without charge, any parts determined by Laguna Tools, Inc. to be a manufacturer's defect. We require the defective item/part to be returned to Laguna Tools. In the event the item/part is determined to be damaged due to lack of maintenance, cleaning or misuse/abuse, the customer will be responsible for the cost to replace the item/part, plus all related shipping charges.

This limited warranty does not apply to natural disasters, acts of terrorism, normal wear and tear, product failure due to lack of maintenance or cleaning, damage caused by accident, neglect, lack of or inadequate dust collection or misuse/abuse or damage caused when repair or alterations have been made or attempted by others.

Laguna Tools, Inc. is not responsible for additional tools or modifications sold or performed (other than from/by Laguna Tools, Inc.) on any Laguna Tools, Inc. woodworking machine. Warranty may be voided upon the addition of such noted tools and/or modifications, determined on a case-by-case basis.

Normal user alignment, adjustment, tuning and machine settings are not covered by this warranty. It is the responsibility of the user to understand basic woodworking machinery settings and procedures and to properly maintain the equipment in accordance with the standards provided by the manufacturer.

Parts, under warranty, are shipped at Laguna Tools, Inc's cost either by common carrier, FedEx Ground service or a similar method.

Technical support to install replacement parts is primarily provided by phone, fax, or e-mail. The labor required to install replacement parts is the responsibility of the user.

Laguna Tools is not responsible for damage or loss caused by a freight company or other circumstances not in our control.

Only new machines sold to the original owner are covered by this warranty.

For warranty repair information, call 1-800-332-4094.

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Noise emission.

Notes concerning noise emission:

Given that there exists a relationship between noise level and exposure times, it is not precise enough to determine the need for supplementary precautions. The factors affecting the true level of exposure to operators are clearly the amount of time exposed, the characteristics of the working environment, other sources of dust and noise, etc, for example, adjacent machines, in other words, the level of ambient noise. It is possible that exposure level limits will vary from country to country.

Specification sheet.

Sliding table dimensions:	48in X 9 in
	1219 mm X 229 mm
Travel:	54 in
	1372 mm
Extension table dimensions:	8 ¾ in X 16 in
	222 mm X 406 mm
Support legs:	2
Miter gauge length:	31 inches
	787 mm
Miter gauge extension:	10 in (total length 41 in)
	254 mm (total length 1041 mm)
Miter gauge stops:	+45 deg, 90 deg & -45 deg
Miter gauge range:	+50 deg to -50 deg
Miter gauge flip stops:	1
Table fixing method:	3 fixing bolts
Weight:	62lb (shipping 79 lb)
	31 kg (shipping 36 kg)

Receiving your Universal Sliding Table System.

Note:- It is probable that your machine will be delivered by a third party. Before you unpack your new machine, you will need to first inspect the packing, invoice and shipping documents supplied by the driver.

Insure that there is no visible damage to the packing or the machine. You need to do this prior to the driver leaving. All damage must be noted on the delivery documents and signed by you and the delivery driver. You must then contact the seller [Laguna Tools] within 24 hours.

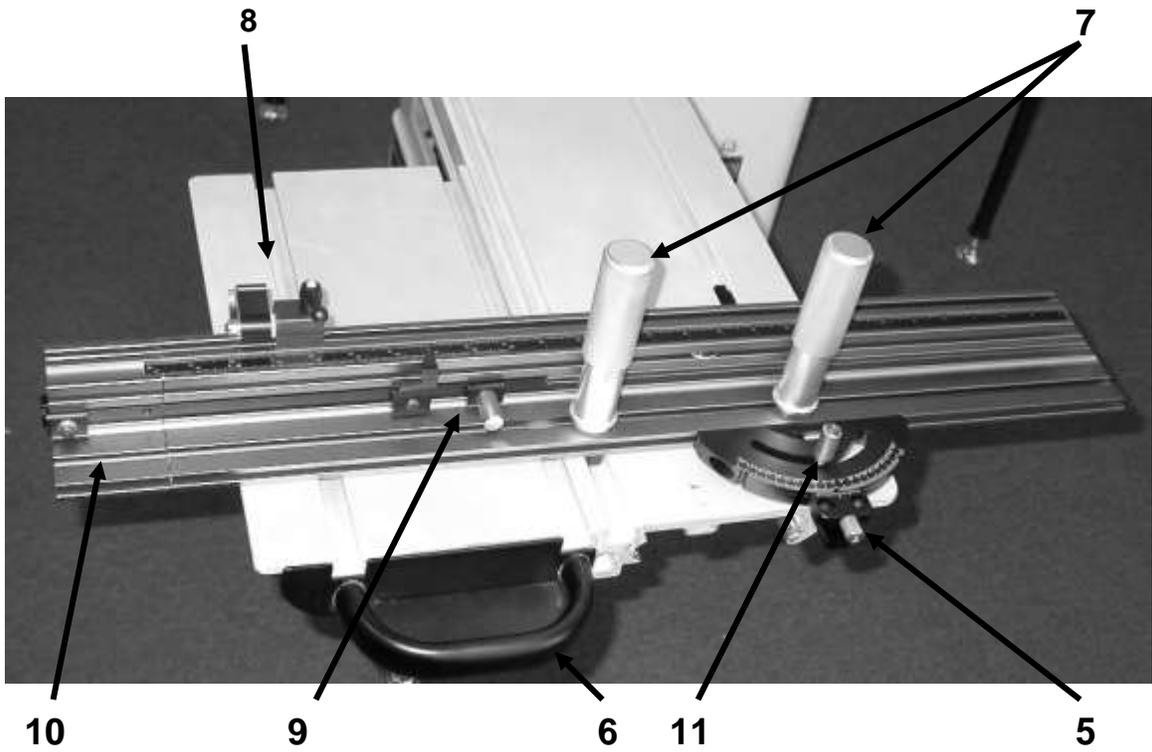
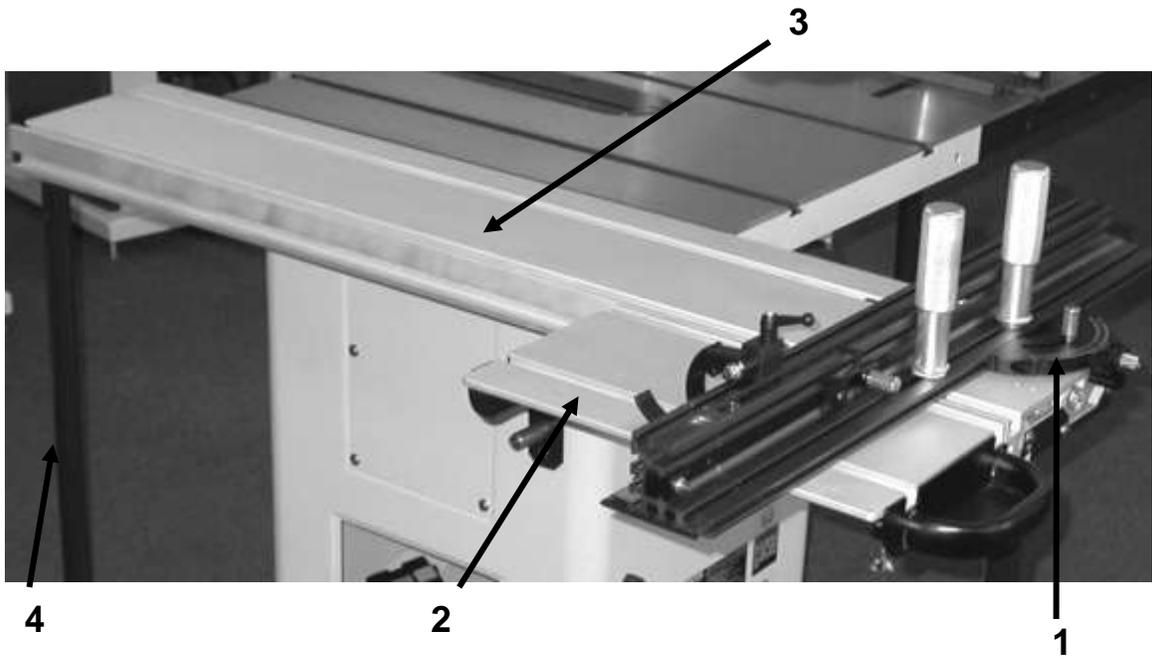
Note:- It is probable that you will find sawdust within your machine. This is because the machine has been tested prior to shipment from the factory and or Laguna Tools.

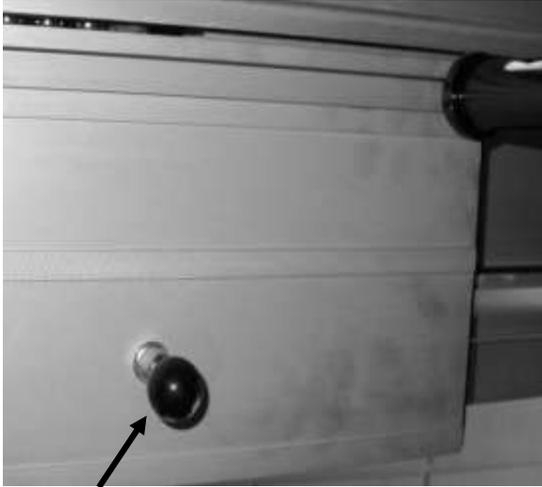
Note:- Laguna Tools endeavors to test machines prior to shipping to customers as movement can take place during transportation. It must be noted that additional machine movement can take place between Laguna Tools and the end-user, and some adjustments may have to be undertaken by the customer. These adjustments are covered in the various sections of this manual.

Introduction to the Universal Sliding Table System

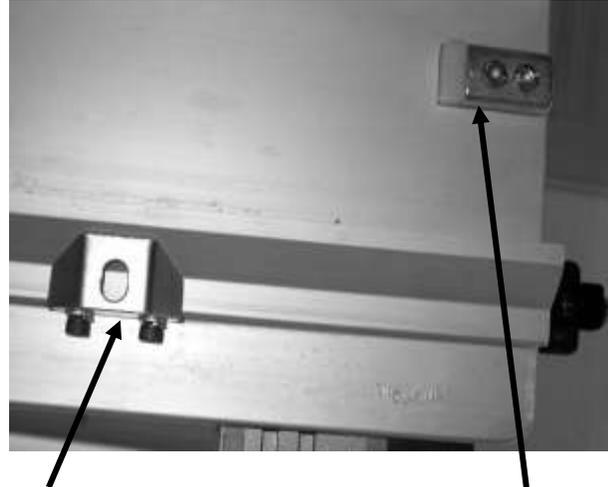
This Universal Sliding Table System is designed to give you years of safe service. Read this owner's manual in its entirety before assembly or use.

Parts of the Universal Sliding Table System.





12



13

14

1. Miter gauge.
2. Extension table.
3. Sliding table.
4. Support leg.
5. 90 degree +45 degree and – 45 degree stop.
6. Sliding table push/pull handle.
7. Miter gauge clamp handles.
8. Flip stop.
9. Fence extension clamp.
10. Fence extension.
11. Miter gauge angle clamp.
12. Sliding table park stop handle.
13. Sliding table park stop.
14. Sliding table bump stops.

1. Miter gauge.

The miter gauge is clamped to the sliding table by two clamp handles. It has three fixed stops, -45 degrees, 90 degrees, and 45 degrees. It can be set and clamped at any angle between -50 degrees and 50 degrees. The fence is supplied with a flip stop that can be adjusted to any position along the fence including the extension. Fence extension is approximately 10 inches to accommodate large work pieces.

2. Extension table.

The extension table is fitted to the side of the sliding table to support large work pieces.

3. Sliding table.

The sliding table is constructed from a heavy duty aluminum extrusion. It uses a caged ball system that runs on steel plates. This has the advantage of point contact and reducing the possibility of dirt build up affecting the smooth action of the slider. The slider is supported by support legs which reduced the stress on the saw table.

4. Support leg.

The support legs attach to the underside of the sliding table in "T" slots and can be positioned at any location along the sliding table.

5. 90 degree +45 degree and – 45 degree stop.

The miter gauge has a spring loaded stop that positively locates the miter gauge at 3 fixed positions.

6. Sliding table push/pull handle.

The sliding table push/pull handle is attached to the extension table and has a convenient recess to store small tools.

7. Miter gauge clamp handles.

The miter gauge clamp handles are used to clamp the miter gauge in the position required. The central clamp is used as a pivot around which the miter gauge swivels.

8. Flip stop.

The flip stop can be adjusted to any position along the fence and can be fitted to the fence extension when cutting large work pieces.

9. Fence extension clamp.

The fence extension clamp is used to clamp the fence extension in the required position.

10. Fence extension.

The fence extension can be extended by up to 10 inches and has a foot plate that supports work pieces.

11. Miter gauge angle clamp.

The miter gauge angle clamp, clamps the miter gauge at the angle required.

12. Sliding table park stop handle.

The sliding table park stop handle, is a sprung loaded plunger, that when twisted and released, will automatically locate in the stop bracket. This is a useful function for use when the machine is not in use, or it is convenient to have the sliding table in a fixed position.

13. Sliding table park stop bracket.

The sliding table park stop bracket is located on the underside of the sliding table. It has lead in angles to assist in the automatic location of the park stop handle.

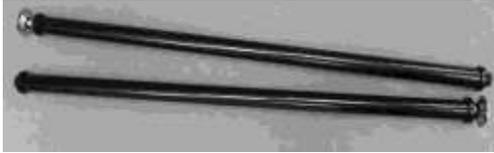
14. Sliding table bump stops.

There are two sliding table bump stops located on the under side of the sliding table, which restrict the movement of the sliding table. They are rubber faced to reduce the shock of sudden stops

Unpacking your Universal Sliding Table System.

1. Dismantle the box.
2. Using the knife, cut the plastic wrap.
3. Remove all the parts that have been packed with the drift master.

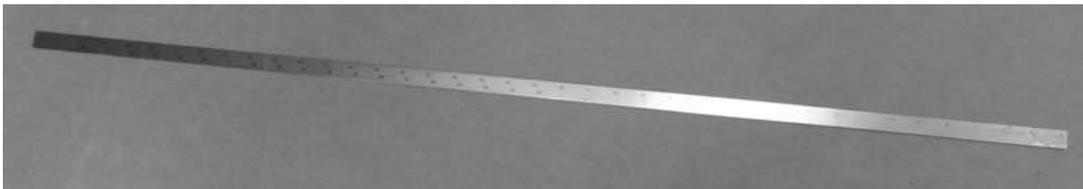
Note. If you have any doubt about the described procedure, seek professional assistance. Do not attempt any procedure that you feel is unsafe, or that you do not have the physical capability of achieving.



Extension legs



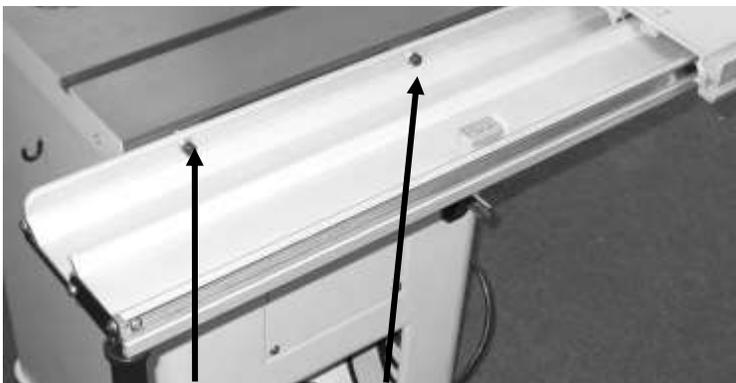
Fixings



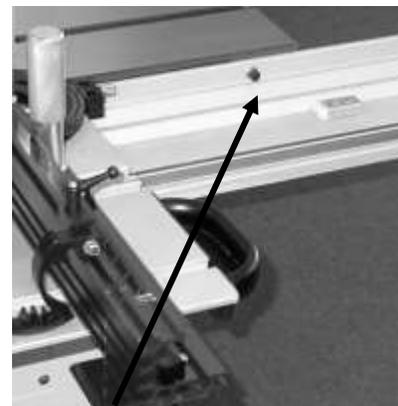
Rule [Note metric one side inches other side]

Assembly and set up.

The Universal Sliding Table System can fit on most table saws, either using the existing holes on the side of the table saw, or by drilling and tapping 3 holes.



Left hand & centre fixing holes



Right hand fixing hole



Support leg

- 1.** Remove your existing side table from your saw [if fitted].
- 2.** Measure the centers both vertically [from the top of the table] and horizontally [along the length of the table]
- 3.** Check if the hole centers are the same as the holes in the sliding table.
- 4.** If the holes do not line up, holes will have to be drilled in either the sliding table or the saw table [see methods A, B, and C].
- 5.** If the holes line up, fit the support legs to the sliding table at both ends as shown above. This will give stability to the sliding table and take most of the weight so that you will be stabilizing it, and not holding the full weight.
- 6.** Hold the sliding table against the saw table with the top of the sliding table level with the top of the saw table.
- 7.** Unlock the sliding table and slide so that just the L. H. hole is exposed and fit the socket head bolt and washer [do not fully tighten].
- 8.** Repeat the procedure for the right hand fixing hole.
- 9.** Once both outside fixings are complete, repeat for the central hole.
- 10.** Adjust the table vertically so that the sliding table is approximately a thickness of paper above the saw table at both ends and fully tighten the fixing bolts.

Should the holes not line up, mark the position of the holes, three methods can be used.

A. Spot through the existing holes in the sliding table onto the saw table.

B. Spot through the existing holes in the saw table onto the sliding table.

C. Mark the saw table or sliding table with the required hole centers, centre punch and drill.

Note:- Which ever method is selected care should be taken and the procedure should never be rushed.

Method "A"

1. Fit the support legs to the sliding table at both ends as shown above. This will give stability to the sliding table and take most of the weight so that you will be stabilizing it, and not holding the full weight.

2. Hold the sliding table against the saw table with the top of the sliding table level with the top of the saw table.

3. Unlock the sliding table and slide so that just the L. H. hole is exposed.

4. With the two table's level, spot through the sliding table hole with a drill.

5. Remove the sliding table and drill a small pilot hole in the saw table.

6. Open the hole to a size that will allow clearance for the screw.

7. Fit the sliding table and clamp with the bolt and nut.

8. Repeat the procedure for the right hand fixing hole.

9. Once both outside fixings are complete repeat for the central hole.

10. Adjust the table vertically so that the sliding table is approximately a thickness of paper above the saw table and fully tighten the fixing bolts. The main table should be 0" to 0.004" lower than the sliding table.

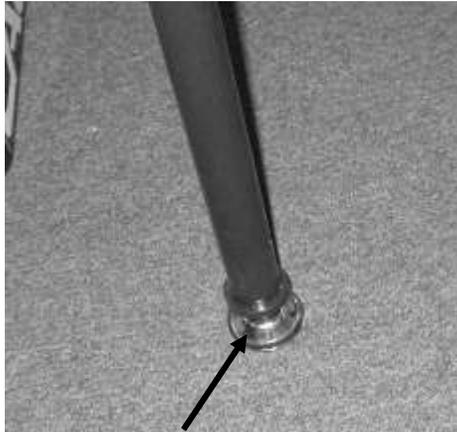
Note:- You may have to elongate one or more of the holes, either up or down to ensure that the sliding table is the correct height above the saw table.

Method B.

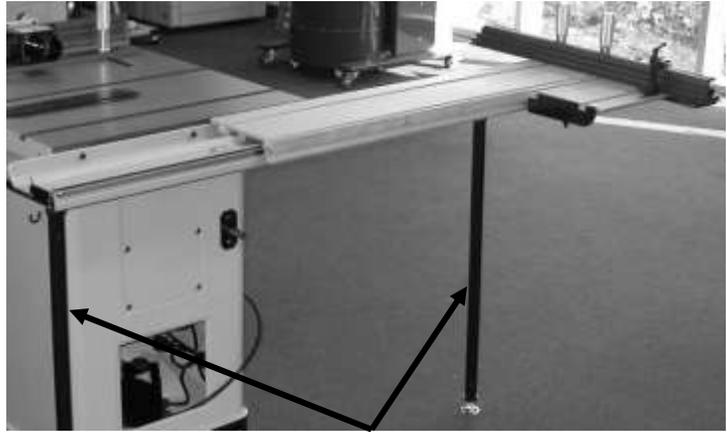
This is basically the same as method A but spotting through the saw table onto the sliding table. This may not be practical depending on the access inside of your table saw.

Method C.

Mark the saw table or sliding table with the required hole centers, centre punch and drill.



Support leg adjuster

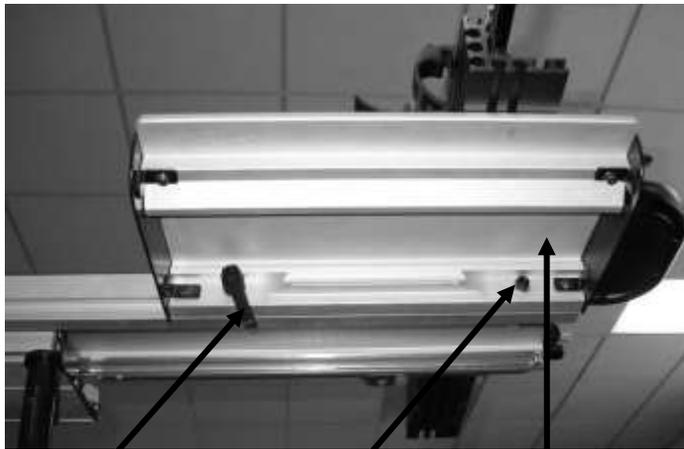


Support legs

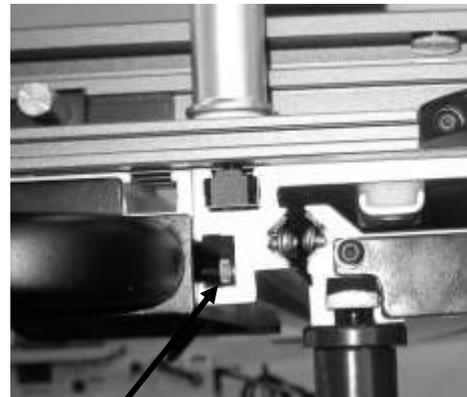
Adjusting the support legs.

Lay a straight edge on the sliding table and the main saw table. Adjust the legs so that the sliding table is parallel with the main saw table.

Check and adjust at both ends of the main saw table.



Clamp handle **Clamp screw**
Extension table

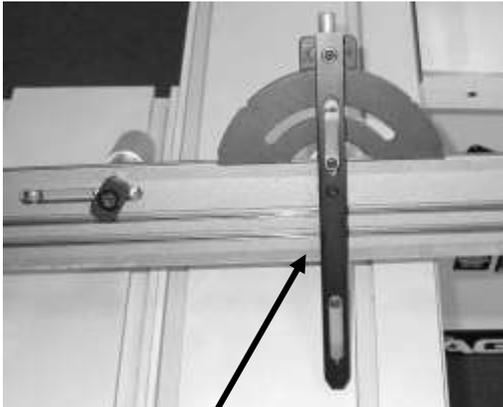


Screw clamp nut

Fitting the extension table.

The extension table fits onto the side of the sliding table. It clamps to the sliding table with a handle and a screw that fit nuts fitted into the "T" slot on the side of the sliding table. The extension table can be

moved to any position along the sliding table, but the most practical position is at the end of the sliding table [as shown].



View on underside of miter gauge

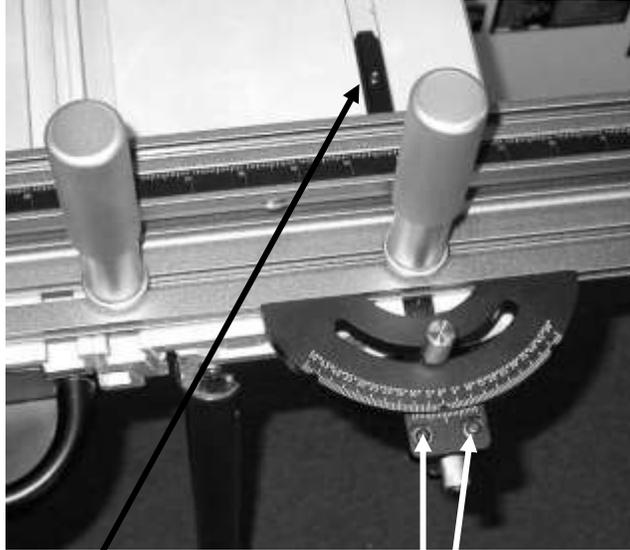


Clamp "T" nut
Miter bar fitting into T slot

Fitting the miter gauge.

The miter gauge is fitted with two spring strips on the under side of the miter bar. The strips are to stop the clamp screws damaging the sliding table extrusion.

Slide the clamp "T" nut and the miter bar into the "T" slots in the sliding table.



Fixed clamp screw

Angle adjusting screws

Locate the miter gauge as shown, and tighten the fixed fixing screw. The fixed screw allows the pivot clamp handle to be loosened, without the miter gauge moving.

Note:- To adjust the miter gauge, loosen the angle adjusting screws, move the fence and re clamp the screws.

Operating and adjusting the universal sliding table.

Fine-tuning the miter fence.

Several methods are acceptable to fine-tune the fence, but we have found that the following is a very practical way to achieve a square panel:

1. Clamp the fence locked at 90 degrees against the stop.
2. Hold a sheet onto the sliding table and cut a straight edge [edge "A"]. Mark "A".
3. Move the sheet so that edge "A" is tight against the fence, and cut edge "B" and mark "B".
4. Flip the sheet so that edge "A" is still against the fence, but edge "B" is farthest away from the saw blade. Cut edge "C" and mark "C".
5. If the sheet is cut square, edge's B and C should be parallel.

Check this by measuring across the width of the sheet at both ends.

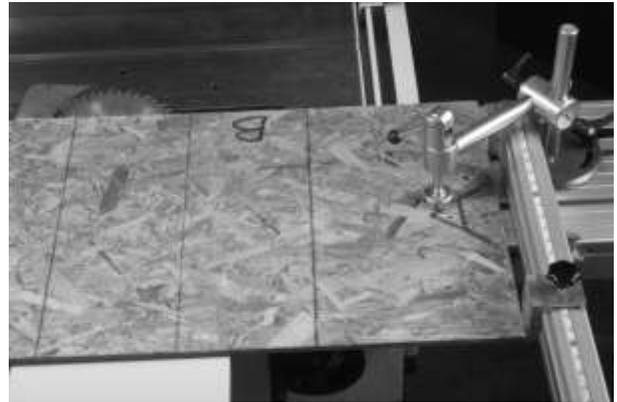
Note:- This method will double the amount of accuracy and any adjustment that is required should be halved. Also the stop is closer to the table than the end of the sheet, so only adjust the stop in very small amounts. Example. You are using a 2 ft x 2 ft sheet and you are

out of parallel by 1/16 in, adjust the stop =- 0,01 inch and repeat the cuts.

First cut.



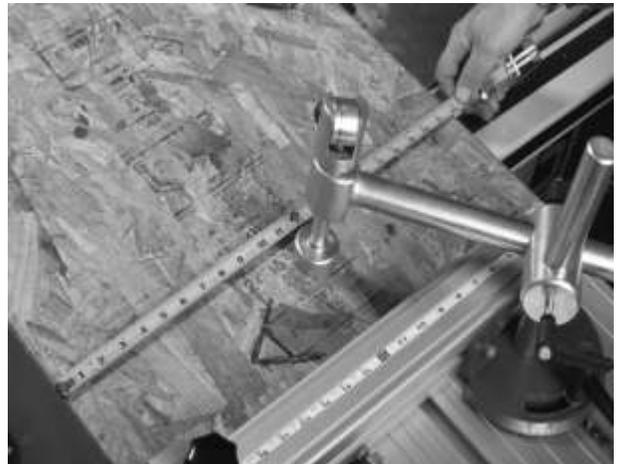
Second cut.



Third cut.



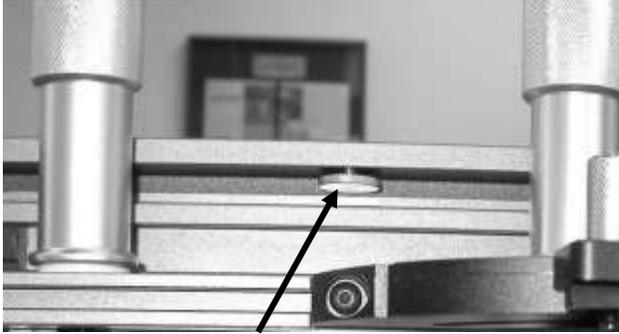
Measure both ends.



Note:- Above illustration is not shown using the universal sliding table.

Setting the fence.

The fence is equipped with a rule that is used in conjunction with the flip stop. The rule will have to be set to suite your set up.

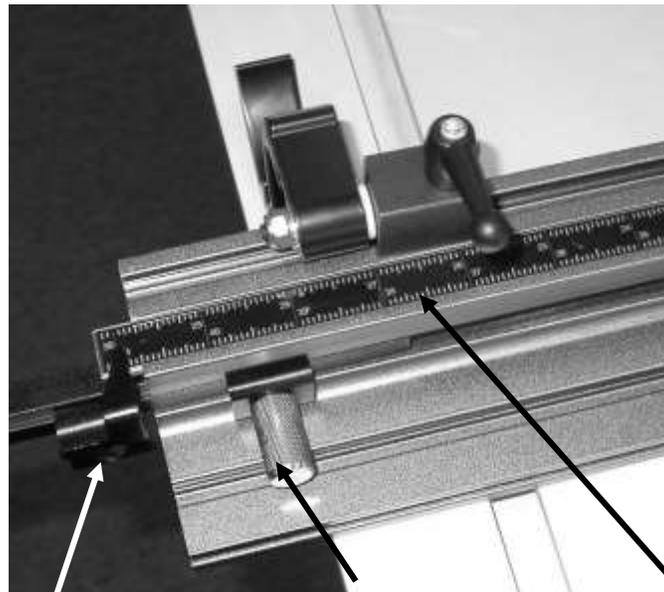


Rule clamp



Fence assembly

1. Set the flip stop to a dimension to suit a piece of scrap wood that you will cut with the table saw.
2. With the scrap wood held securely against the fence and the flip stop cut the scrap with the table saw.
3. Remove the wood and measure the length.
4. The rule will probably not be set to the correct length, so without loosening the flip stop, release the rule clamp, move the rule to the same dimension as the cut scrap wood and re clamp the rule.
5. Move the flip stop to a smaller dimension and repeat the process to double check that the adjustment was correct.



Extension pointer

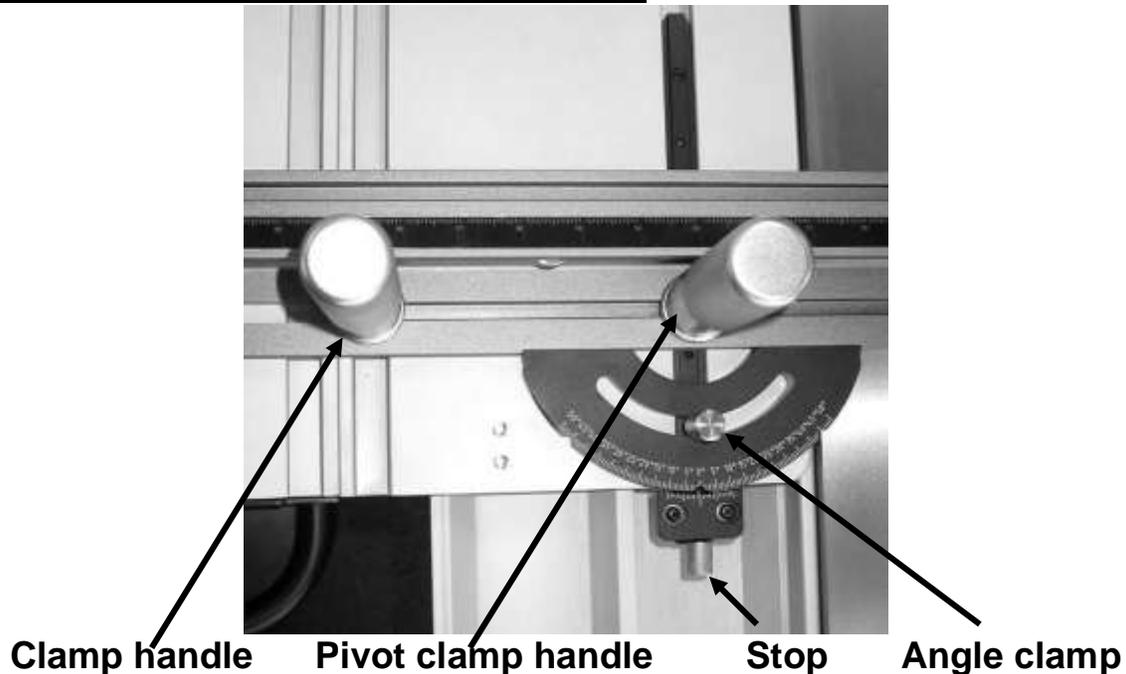
Extension clamp

Scale

The rule has two scales, one for use with the flip stop on the main part of the fence. The flip stop is lined up with the scale close to the fence face. When the flip stop is assembled on to the fence extension the pointer uses the scale furthest away from the fence face.

Operating the universal sliding table.

Angle adjustment of the miter gauge.



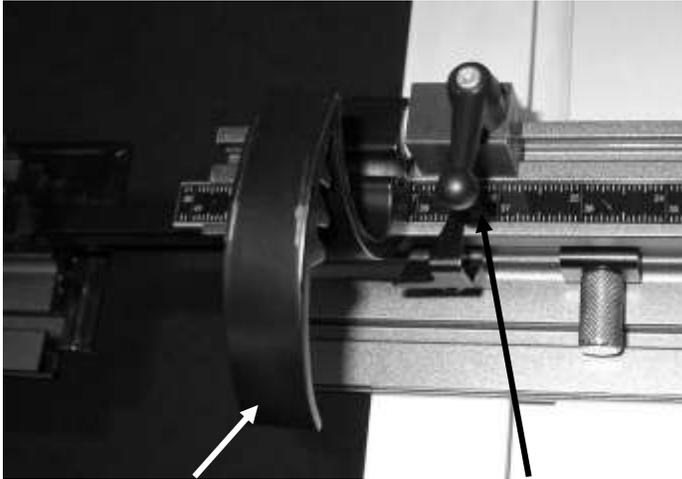
To set the mitre gauge at either -45, 90 or +45 degrees.

1. Loosen the angle clamp, pivot clamp handle and the clamp handle.
2. Retract the stop plunger and rotate the mitre gauge to the required angle. Release the stop ensuring that it is seated in the appropriate slot. Camp the angle clamp, pivot clamp handle and the clamp handle.

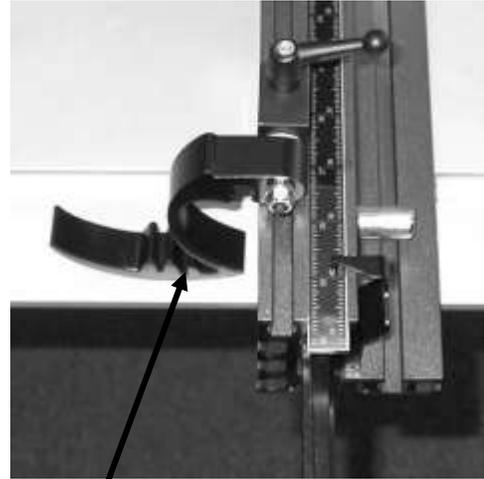
To set the mitre gauge to an angle not covered by the fixed positions.

1. Loosen the angle clamp, pivot clamp handle and the clamp handle.
2. Retract the stop plunger and rotate the mitre gauge to the required angle. Release the stop. Camp the angle clamp, pivot clamp handle and the clamp handle.

Using the flip stop.



Flip stop in up position **Clamp handle**



Flip stop in down position

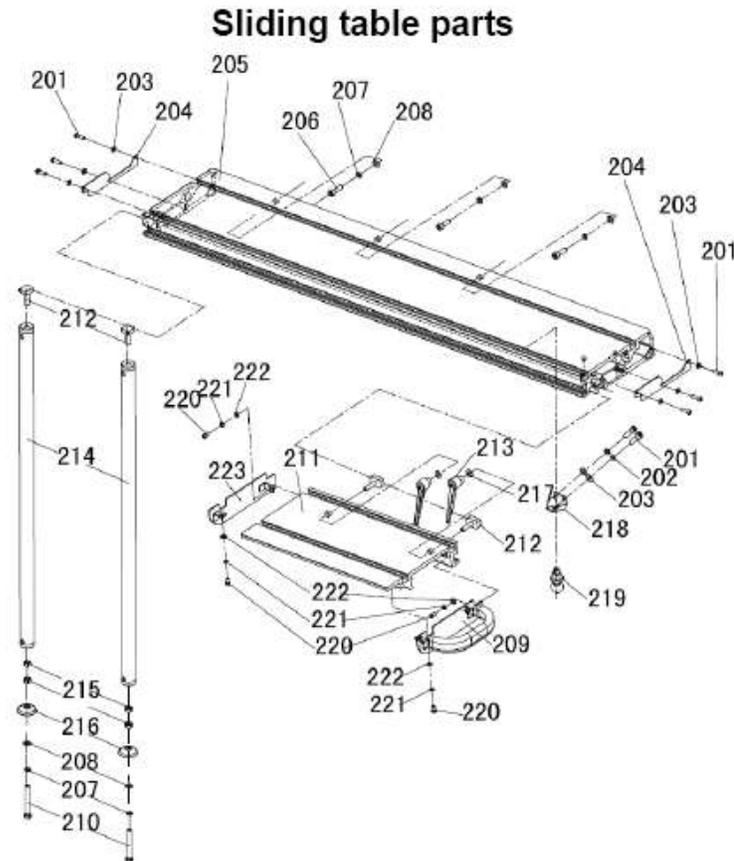
To set the flip stop.

Raise the flip stop to the up position and align with the scale closest to the fence face. Once in the required position, clamp in position with the clamp handle.

Weekly maintainance.

1. Check all nuts and bolts are tight
2. Clean the machine. Make sure that all moveing parts are clean and free from saw dust and dirt.
3. Lubricate all moveing parts with a Teflon based lubricant.
4. Wax the table and all none painted parts.

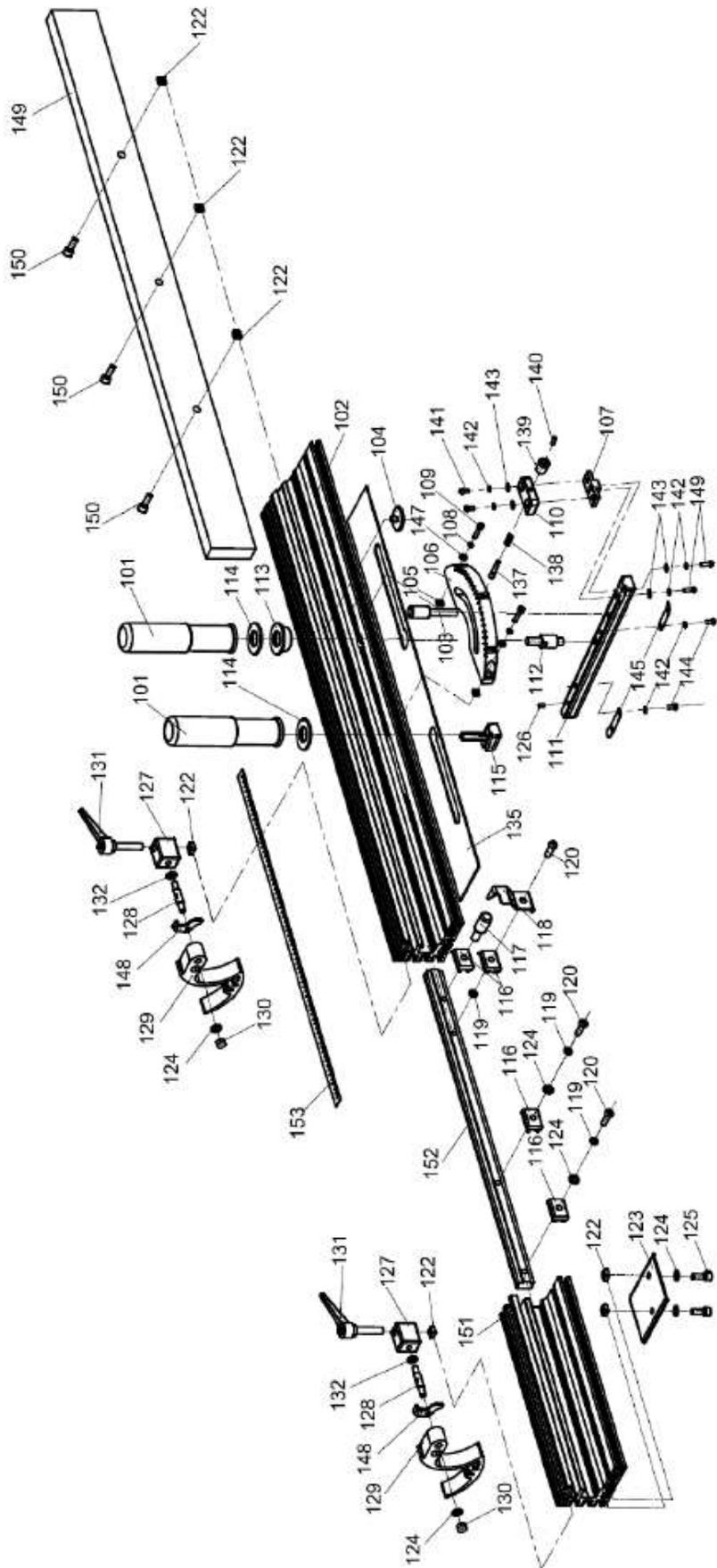
Exploded view drawings.



Parts list for sliding table

REF#	DESCRIPTION	QTY	REF#	DESCRIPTION	QTY
201	Button HD SCR M6-1*12	8	213	LOCK LEVER M8-1.25	2
202	Lock washer 6mm	2	214	SUPPORT LEG	2
203	Flat washer 6mm	8	215	Hex nut M8-1.25	4
204	SLIDING TABLE SIDE COVER	2	216	FOOT PAD	2
205	SLIDING TABLE ASSEMBLY	1	217	LOCK LEVER FLAT WASHER 8mm	2
206	Cap screw M8-1.25*25	3	218	STOP PLATE	1
207	Lock washer 8mm	5	219	STOP PIN ASSEMBLY	1
208	Flat washer 8mm	5	220	BUTTON HD CAP SCR M5-.8 X 12	4
209	FRONT TABLE SIDE COVER	1	221	Lock washer 5mm	4
210	Hex bolt M8-1.25*80	2	222	Flat washer 5mm	4
211	Extension table	1	223	REAR TABLE SIDE COVER	1
212	T-NUT M8-1.25	4			

Sliding table fence parts



Parts list for sliding table fence

REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
101	KNURLED HANDLE M8-1.25	2	127	FLIP STOP BRACKET	2
102	LONG CROSSCUT FENCE	1	128	FLIP STOP PIVOT PIN	2
103	KNOB BOLT M6-1 X 35	1	129	FLIP STOP	2
104	HANDLE SCREW M6-1 X 8	1	130	LOCK NUT M6-1	2
105	SQUARE NUT M5-8	2	131	LOCK LEVER M6-1 X 32	2
106	MITER GUAGE BODY	1	132	TEFLON FLAT WASHER 6MM	2
107	T-SLOT BLOCK	1	135	PVC PAD	1
108	LOCK WASHER 5MM	2	137	MITER GUAGE STOP PIN	1
109	CAP SCREW M5-8 X 20	2	138	COMPRESSION SPRING	1
110	STOP PIN BRACKET	1	139	STOP PIN KNOB	1
111	MITER GUAGE T-SLOT BAR	1	140	SET SCREW M4-.7 X 8	1
112	MITER GUAGE PIVOT PIN	1	141	BUTTON HD CAP SCR M4-.7 X 12	2
113	THREADED HANDLE BUSHING	1	142	LOCK WASHER 4MM	5
114	TEFLON FLAT WASHER 8MM	2	143	FLAT WASHER 4MM	3
115	T-BOLT M8-1.25 X 40	1	144	BUTTON HD CAP SCR M4-.7 X 8	2
116	T-SLOT NUT M6-1	4	145	SPRING STRIP	2
117	POINTER BRACKET KNOB BOLT M6-1	1	146	BUTTON HD CAP SCR M4-.7 X 12	1
118	POINTER	1	147	FLAT WASHER 5MM	2
119	LOCK WASHER 6MM	3	148	LITTLE POINTER	2
120	BUTTON HD CAP SCR M6-1 X 20	3	149	Phenolic fence board	1
122	SQUARE NUT M6-1	7	150	FLAT HD SCR M6-1*20	3
123	CROSSCUT SUPPORT PLATE	1	151	EXTEND CROSSCUT FENCE	1
124	FLAT WASHER 6MM	6	152	CROSSCUT FENCE EXTENSION BAR	1
125	CAP SCREW M6-1 X 16	2	153	SCALE	1
126	SET SCREW M6-1 X 8	1			