

The following must be read in conjunction with SP01 General Workshop Safety Rules.

The primary purpose of the Invicta-Delta table saw is to cut sheet material and cross cut long boards using the sliding table to support the work-piece. It can also be used for rip cutting boards. It should not be used to cut small work-pieces that cause the operator's hands to go under the blade guard.

General Safety Rules

1. Do not conduct a cutting operation that causes hands or fingers to go under the blade guard. Use push tools.
2. Set the blade height to be approximately 10mm higher than the thickness to be cut.
3. All cuts must be made using either the Rip fence or Sliding Table to guide the work-piece. **Never attempt to make freehand cuts.**
4. Do not attempt to remove small pieces that are adjacent to or close to the blade until the Red Light goes Off.
5. Do not rip cut where the wanted work-piece is less than 100mm in width. Cutting a piece less than 100mm wide can cause hands to go under the blade guard at the end of the cutting operation. *(Use the SawStop)*
6. When using the rip fence to guide a work-piece, the length of the work-piece in the direction of cut must be at least greater than the distance between the front and rear of the blade, as it projects above the table, plus 25mm. **Breaking this rule can result in a severe kick back.** Do **NOT** attempt to cross cut a small piece as shown in Photo A below.

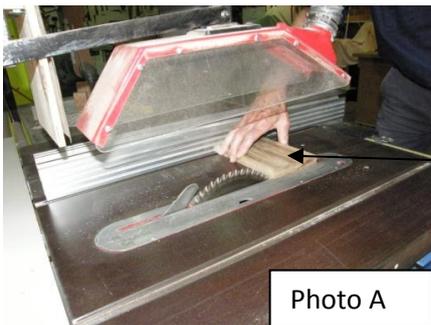


Photo A

Cross cutting a small piece like this is dangerous. If the work-piece slightly twists and catches the rear of the spinning blade a kick back will occur and your hands will be pulled in towards the blade with a high probability of severe injury.

Note: The blade guard was raised for the photograph. If the guard was down a severe accident could still happen.

Rip Cuts Using the Rip Fence to Cut a 100mm or Wider Piece from a Board

1. Set and lock the rip fence to the desired width of cut (e.g. 100mm in this example).
2. Ensure a push tool is within easy reach.
3. Use a featherboard to hold the work-piece hard against the fence as shown below in Photo B. Position the featherboard to be in front of the blade.
4. Switch the saw ON and feed the work-piece slowly into the blade and if necessary, to provide safe hand clearance from the blade, use a push tool to push the work-piece past the blade as shown below in Photo C.

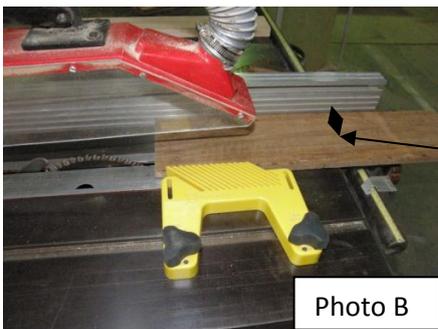


Photo B

100mm
Cut Width

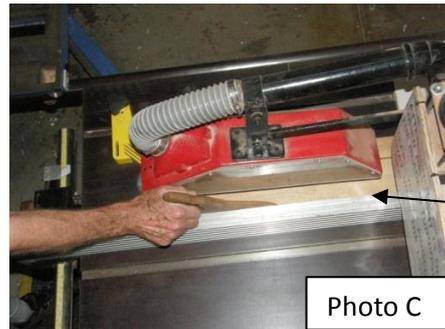


Photo C

A 100mm cut leaves just sufficient space to safely push past the blade guard.

Prepared By: Jim Spence Date: 4 February 2013	Approved By: Tony Blair Signature:	Date:	Ver: 01
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Hornsby Woodworking Men's Shed

Cutting Sheet Material

The saw can cut sheets up to 1200mm high x 2400mm wide using the sliding table.

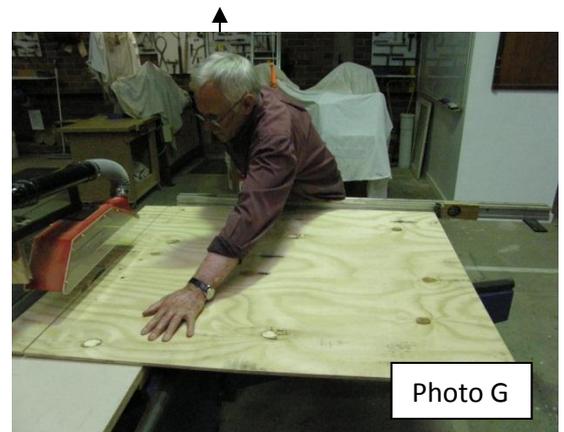
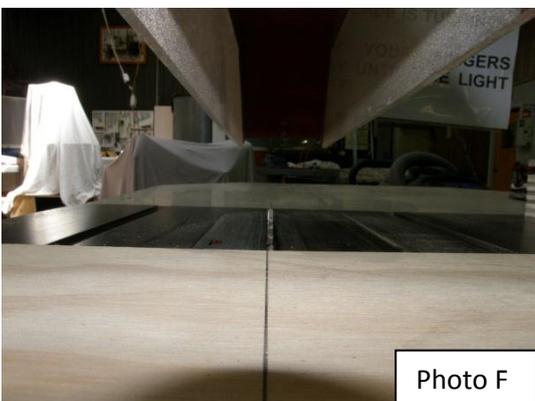
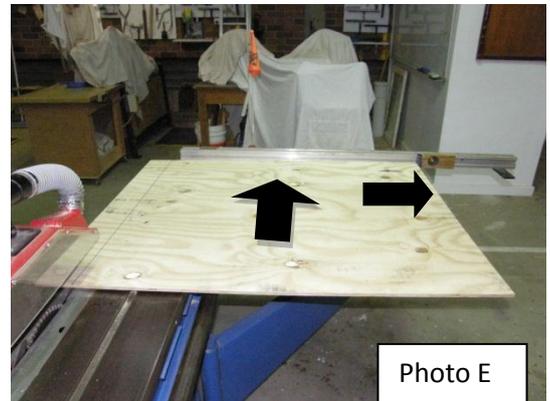
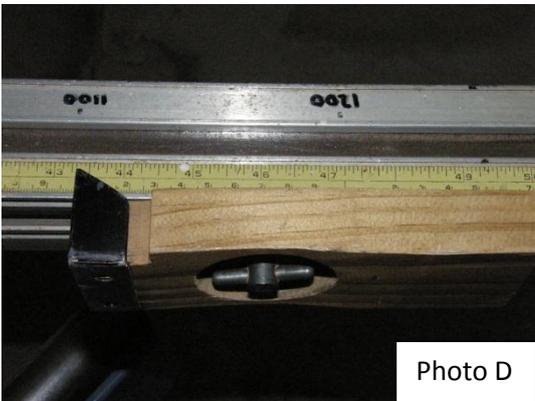
The sliding table on the saw can be used to cut sheet material in the following two ways:

1. Using the Sliding Table Fence Scale as the Measurement Method

This method is usually used when the wanted part is the larger part of the sheet.

To make a cut:

1. Set the sliding table fence Length Gauge to the width to be cut (e.g. 1100mm) using the scale on the sliding table fence as shown in Photo D.
2. Move the rip fence to the right to be well clear of the off-cut that will result from this operation.
3. If the job requires high accuracy it is advisable at this stage to accurately draw the required cut line on the sheet. This can be used to check that the stop block set in 1 above has been accurately set.
4. Place the sheet on the sliding table and pull it hard against the fence and hard against the stop block as shown in Photo E.
5. If a cut line has been drawn on the sheet, crouch in line with the saw blade and check that the cut line is aligned with the left hand side of the saw blade teeth as shown in photo F below.
6. Switch the saw ON and, while holding the sheet hard against the fence, push the sliding table forward at a steady speed to make the cut as shown in photo G below.
7. If multiple pieces the same size are required place each sheet in turn on the sliding table with the left hand corner (as seen by the operator) hard against the fence stop and repeat 6 above.



Hornsby Woodworking Men's Shed

2. Cutting Parts from a Sheet Using the Rip Fence

This method is used when the requirement is to cut smaller pieces from a large sheet. (e.g cutting a 300 mm wide piece from the side of a large sheet).

1. Using the rip fence scale set the rip fence to the desired width (e.g. 300mm) of the piece to be cut. Lock the fence using the locking handle shown in Photo H.
2. Place the sheet to be cut on the sliding table and pull the sliding table back far enough to allow the sheet to clear the blade and be pushed to the right hard against the rip fence while at the same time being hard against the sliding table fence as shown in Photo I below.
3. Start the saw and while holding the sheet hard against the sliding fence push the sliding table at a steady speed until the cut is complete. Push the wanted piece past the blade using a push stick if necessary for safety.

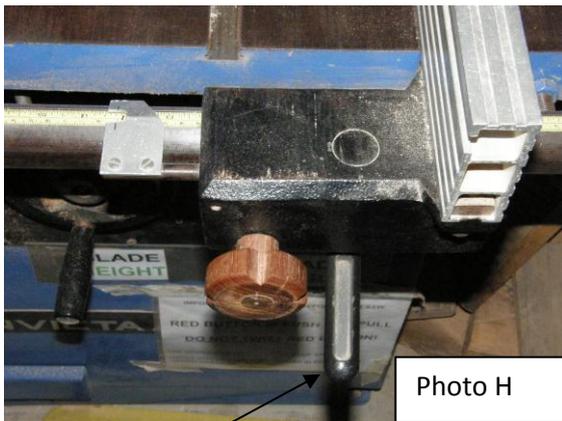


Photo H

Locking Handle



Photo I

Cross Cutting Short Lengths From a Long Board Using The Rip Fence Scale.

Note: If the SawStop table saw is available it should be used do this type of cut on short boards.

1. Place the 20mm spacer jig onto the rip fence ahead of the saw blade in approximately the position shown in the picture below. (The 20mm space between the work-piece and the fence prevents kick back when the cut piece reaches the rear of the saw blade at the end of the cutting operation).
2. Using the rip fence scale set the rip fence to the required length plus 20mm (For Example: If the required length = 120mm set the rip fence to $120+20 = 140$ mm).
3. Place the work-piece against the sliding table fence and slide it to the right until it is hard against the spacer jig as shown below.
4. Start the saw and while holding the work-piece firmly against the sliding table fence push the table forward to make the cut while ensuring that the 20mm spacer does not move.

