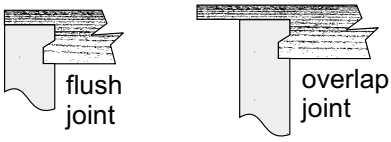
APPLICATION DETAILS

DRAWER CORNER LOCK TYPE 'A'

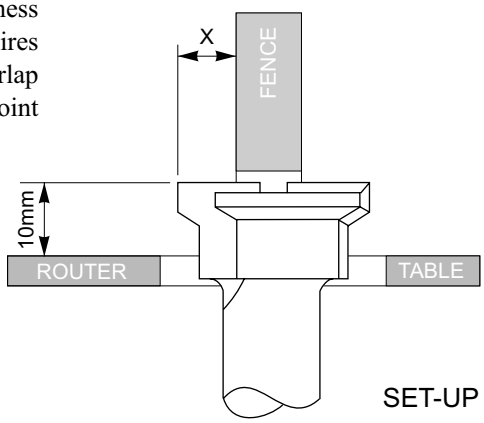
The drawer corner lock cutter is designed to enable the rapid production of strong corner joints with a long glue line. They should be used in routing machines mounted in a table and with a tall timber face fitted to the fence. To enable the setting up of the cutter it is an advantage to have fine adjustment of the router height and fence position.



SETTING THE CUTTER

Unplug the router machine power cord before setting the cutter in the machine.

These setting details assume that the material for both parts of the joint are the same thickness and that a flush aligned joint is to be produced (see illustrated joints top right). This requires the simplest set up and ensures that all parts can be cut with the same settings. If the overlap joint is required then the fence will need to be reset (backwards) when the lap half of the joint is cut.



SET-UP

HEIGHT:

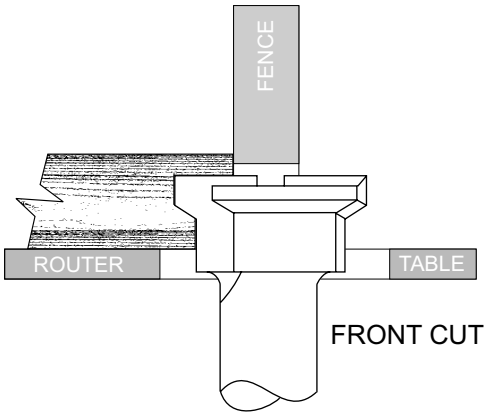
With the routing machine mounted in a table fit the cutter and adjust the height so that the top of the cutting edge is 10mm above the top of the table. This setting may be easily achieved if a piece of board 10mm thick is used to align with the top of the cutter.

FENCE:

With the cutter turned so that the cutting edge is at right angles to the fence (i.e. furthest distance from fence), adjust the dimension "X", to the dimension calculated as follows. Measure the thickness of the material to be joined, half this and add 1.5mm. e.g. for 12mm board the "X" dimension would be 6 + 1.5 = 7.5mm.

CHECKING THE SET-UP

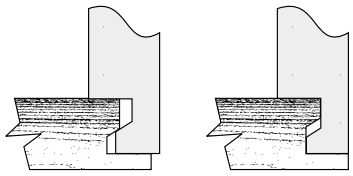
Before proceeding to cut finished components the set-up should be checked. Use scrap timber of the same thickness as the material to be joined run a front cut with the workpiece flat on the table and pushed up to the fence and a side cut with the workpiece vertically against the fence. Check the two adjustments as follows:



FRONT CUT

HEIGHT

The height setting of the cutter above the table controls the tightness of the joint. If the joint is tight so that it will not fully engage then lower the cutter and if the joint is slack then raise the cutter in the table. N.B. only small movements of the cutter will be required.


Tight joint - lower cutter

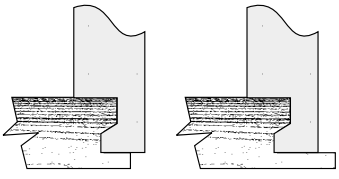
Slack joint - raise cutter

FENCE

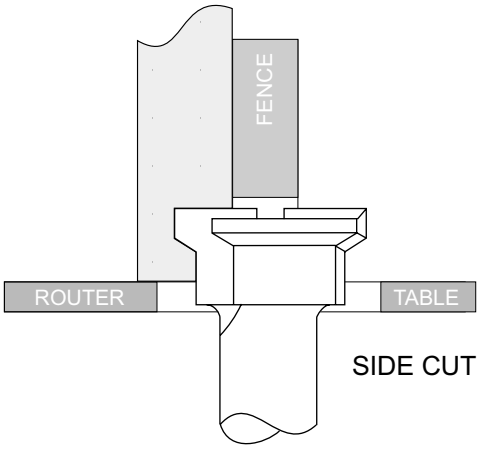
The distance between the fence and the front of the cutter controls the corner alignment of the front and side components. If the front is short of the corner then move the fence back to increase the distance from the front of the cutter. If the front overlaps the side (long joint) then move the fence foreword to decrease the distance.

N.B. After making an adjustment machine two new test pieces to check the settings.

Additional information can be found on our website under the Hints & Tips/Reviews section. The link is: www.wealdentool.eu/reviews/review_03.html


Short joint - move fence back

Long joint - move fence foreword



SIDE CUT