

Lock Miter

Bits #5547, 5548, 7847, 7849, 7850
KATANA Bits #17849, 17850

The Lock Miter bit makes clean, self-aligning mitered corners in hardwood, softwood, and plywood. Choose your bit based on the thickness of the material you plan to use, following the catalog specs. The bit must be used in a router table with a straight, squared fence. Best results are obtained with minimum clearance around the bit both in the table and fence. A variable speed router or **MLCS Speed Control #9000** will make the job easier.

The Lock Miter bit uses only one set-up for both sides of the cut. **The most important thing to remember when adjusting the bit is this:** The bit should be centered on the stock and be an equal distance from the top to the bottom, and only the diagonal of the bit should show.

Prepare some test wood the same thickness as your project, about 6" wide and cut square and true. Do not pre-miter the ends of the work. The bit does this. At the ends of the test pieces to be cut, attach a scrap of wood, as shown below, along the cut to act as a guide against the fence and table. Once the actual workpiece clears the bit, there is only a point of the piece left to ride the fence or table. The scrap piece keeps the work running straight and true. Run one side of the joint down on the table, then run the other side upright against the fence. Remove the scrap pieces and check the fit. Make a minute adjustment in the height of the bit or the depth of cut to align the corner, then run all of your corner pieces.

TIPS: Use double-faced tape (**MLCS Item #9489, #9491, or #9493**) to fasten the scrap pieces to all of the ends of the workpieces at once. Make them about an inch longer at each end for good stability. The **Merle Adjustable Corner Clamp (MLCS Item #9012)** is the best choice for gluing up a lock-mitered box.

