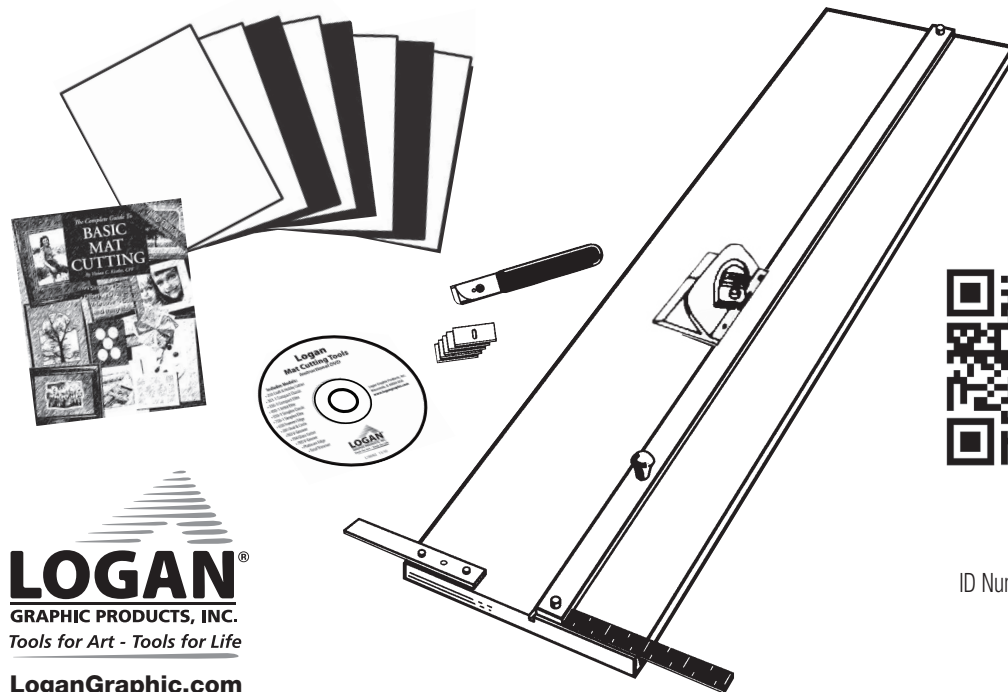


INSTRUCTION MANUAL

DELUXE MAT CUTTING KIT

MODEL 545



INSTRUCTIONS & OPERATION MANUAL

23 in (51 cm) capacity cutting board,
bevel cutter, straight cutting knife,
mat boards, blades, DVD, mat cutting book.

**For best results use only
authentic Logan blades**

**Uses Logan Replacement
Blade #270**



**Mat border calculator
Mobile app**

Purchase Date

ID Number (on bottom of board)

Date (on bottom of board)

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Congratulations on your purchase of the Deluxe Mat Cutting Kit.

This well designed economical Mat Cutter will provide professional results at a fraction of the cost of professional equipment. The Deluxe Mat Cutting Kit includes all the basic components needed including a base board, bevel cutter and mat knife to accurately size and then bevel cut matboard for framing. Please take some time to familiarize yourself with this instruction manual before cutting. You will find that the time taken will be worth it, and you will be cutting quality mats in no time.

Carton Contents

Cutting Board	Extra Blades
Bevel Cutter	Practice Mat Board
Mat Knife	Basic Mat Cutting Book
	DVD

Identification of Machine Components

Cutting Board

Cutting Board
Vinyl covered base board of machine

Bar Knob
Used to lift and position the guide bar

Guide Bar
Used to guide cutting heads while cutting

Slip Sheet
Scrap matboard used under the mat being cut to improve quality of bevel cut

Squaring Bars
Mounted 90 degree bars used to hold mats square when cutting and to set border sizes (attach to base, as shown)

Mat Knife

Blade Nut
Holds cover and blade in place

Blade Cover
Holds blade safely in position

Blade

Blade Handle

Bevel Cutter

Start and Stop Indicator
Line which shows where to begin and end cut

Blade Holding Knob
Holds blade securely onto blade holder

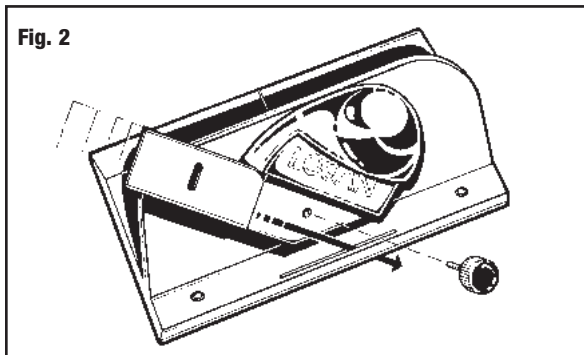
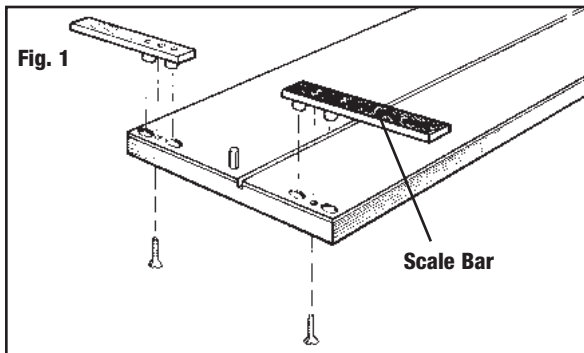
Board Assembly

1. Press squaring bars into holes in cutting board. (Fig. 1)
- Helpful Hint - Be sure scale is located on proper side.
2. Thread screws from the bottom of the board and into the squaring bars.
 3. Tighten screws snug.

Blade Installation

A. Model 2000 Bevel Cutter

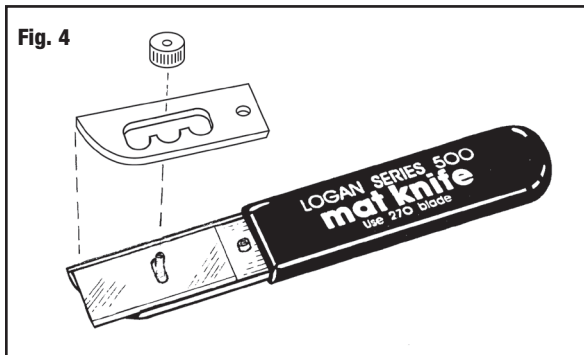
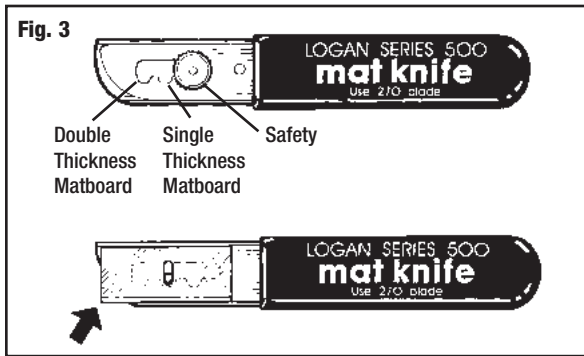
1. Remove one blade from package.
- Helpful Hint - Beware, blades sometimes stick together.
2. Remove blade knob.
 3. Slide blade down front of blade holder and into slot. (Fig. 2)
 4. Align hole in blade with hole in blade holder.
 5. Replace knob.



Model 500 Mat Knife

1. Remove one blade from package.
2. Remove blade nut and cover plate.
3. Place blade onto knife handle lining hole in blade over screw thread. Be sure sharp edge is overhanging curved edge of handle. (Fig. 3)
4. Replace blade cover and blade nut. (Fig. 4)
5. Adjust setting by sliding blade nut to desired location and tighten.

Helpful Hint - Second setting on knife is for 3/16 foamboard or double thick matboard



OPERATION

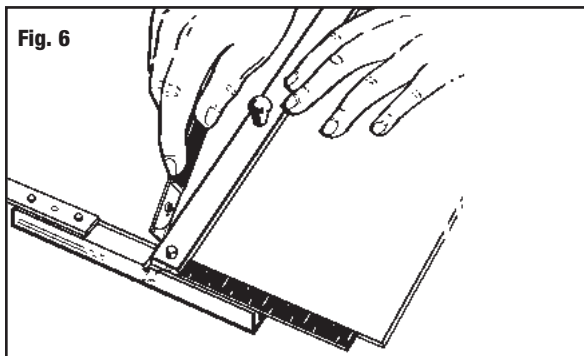
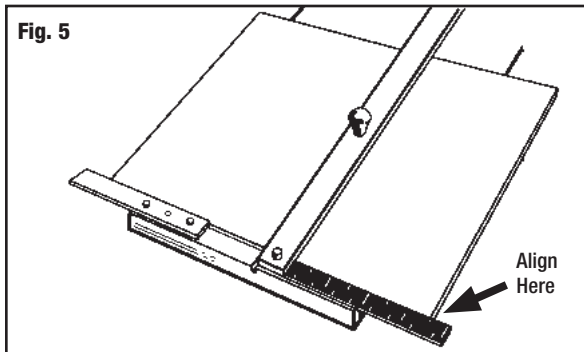
Cutting a Board to Size

Helpful Hint - Matboard is sold in 32" x 40" sizes. Sometimes stores will sell smaller sizes or cut a sheet down at no charge. Simply ask.

1. Using a measuring device, measure dimension of board to be cut.
2. Slide matboard under guidebar and against squaring bars. Align mark with guidebar edge. (Fig. 5)

Helpful Hint - Mat cutter only cuts up to 23". Anything larger will have to be cut using any longer straight edge. If cutting without board, be sure to use a backing sheet to protect cutting surface.

3. Stand with squaring bars furthest from you, hold knife vertically along edge of guidebar at 45 degree angle. Place blade tip beyond edge of matboard. Draw knife across matboard towards yourself. (Fig. 6)



Cutting a Beveled Opening

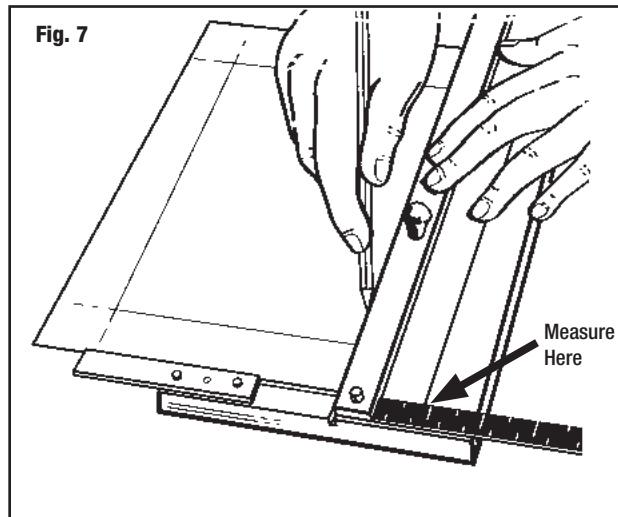
1. Determine opening by measuring artwork and subtracting 1/2 inch from each dimension.

Helpful Hint - If artwork measures 5" x 7" then opening should be 4-1/2" x 6-1/2" so mat covers artwork.

2. Determine border by subtracting opening dimension from matboard dimension and taking half of that.

Helpful Hint - If matboard dimension is 8" x 10" and opening is 4-1/2" x 6-1/2" then subtract $8 - 4\text{-}1/2" = 3\text{-}1/2"$ and $10 - 6\text{-}1/2" = 3\text{-}1/2"$. Half of 3-1/2" is 1-3/4" so border is 1-3/4".

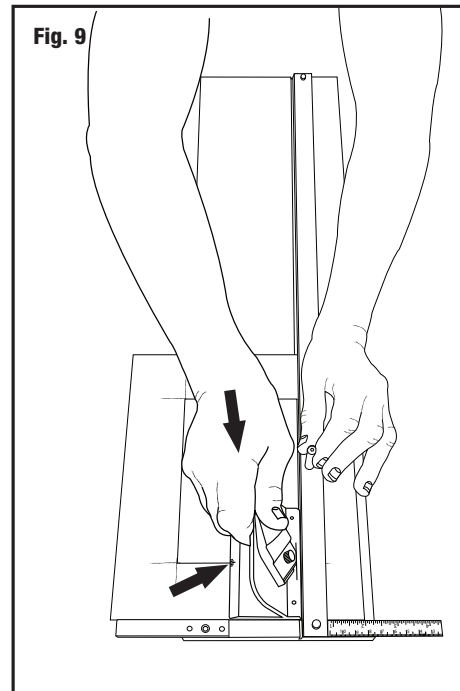
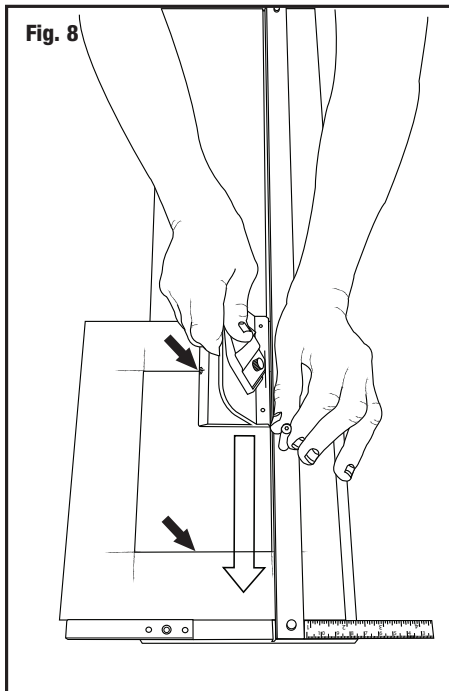
3. Put a slip sheet under the mat to be cut.
4. Mark borders on back of mat. Slide mat board under guide bar and against squaring bars. Align edge of matboard to desired dimension. (Fig.7)
5. Using a pencil, draw lines full length of back of matboard. Repeat this for remaining three sides.



6. Standing with the squaring bars away from you, position model 2000 bevel cutter so the silver line lines up with bottom intersecting pencil line. (Fig. 8)
7. Hold down guidebar with your left hand. Place thumb of right hand on thumb divot on blade holder. (Fig. 8)
8. Plunge the blade down into the mat. Keep downward pressure, slide cutter against guidebar until silver line intersects with top pencil line. (Fig. 9)

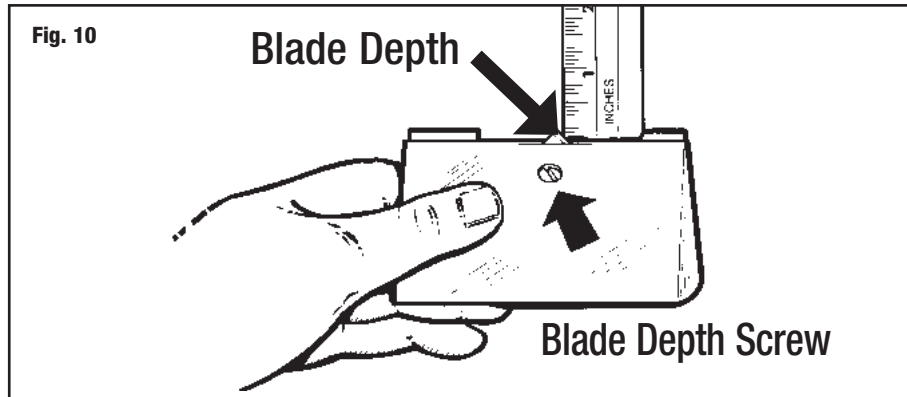
Helpful Hint - Lower heel of right hand behind cutter to get better leverage. For best results do not go beyond intersecting lines.

9. Remove blade from mat by pulling up on blade holder using your thumb.
10. Rotate the mat to 1/4 turn and repeat steps 6-9 to complete cutting.



Helpful Hints

1. **Bevel blade adjustment** - Turning depth adjustment screw in (clockwise) will decrease depth and turning screw out (counter-clockwise) will increase depth. (Fig. 10) Note that proper blade depth will result in the blade just clearing the matboard and lightly scoring the slip sheet underneath.
2. Always use a slip sheet when bevel cutting. A piece of scrap matboard used under mat being cut provides the highest quality cut.
3. **Change blades** -When edge of cut looks ragged. Blade sharpness varies so blade life varies.



Trouble Shooting

Bevel Cut has a Rough Edge

1. You may need to change your blade more often. Dull blades drag through the mat instead of cut.
2. Change your Slip Sheet. Cutting over the same area on the Slip Sheet repeatedly can cause rough cuts.

Not Cutting Through the Mat

1. Keep even downward pressure on the Chrome Blade Holder throughout the cut. Letting pressure off will allow the blade to come out of the mat.
2. Check your blade depth. Insufficient blade depth can result in undercut mats. To adjust the blade depth on the Bevel Cutter, turn the screw on the underside of the cutting head clockwise to decrease or counter-clockwise to increase the amount of the exposed blade.

Overcuts In Corners

1. Check your blade depth. Extra blade depth can cause the blade tip to cut past the marked lines producing an overcut. Using the recessed screw on the bottom of the Bevel Cutter, adjust the blade tip to allow for 1/8" exposure. The blade should just score into the surface of the Slip Sheet.
To adjust the blade depth on the Bevel Cutter, turn the screw on the underside of the cutting head clockwise to decrease or counter-clockwise to increase the amount of the exposed blade.

Hooks or Curves in Cut

1. Check your blade depth. Extra blade depth can cause the blade tip to flare out producing a hook or curve. Using the recessed screw on the bottom of the Bevel Cutter, adjust the blade tip to allow for 1/8" exposure. The blade should just score into the surface of the Slip Sheet.
To adjust the blade depth on the Bevel Cutter, turn the screw on the underside of the cutting head clockwise to decrease or counter-clockwise to increase the amount of the exposed blade.
2. Change the blade. A dull blade will flare out causing a hook or curve.
A NOTE ON BLADES: No two blades will have the same lifespan. Always start with a new blade before each project to ensure best results.

Warranty

Logan Graphic Products, Inc. (“Logan”) warrants the Deluxe Mat Cutting Kit Model 545 to be free from defects in parts and workmanship for a period of two years from the date of original purchase. Logan warrants that it will either repair or replace, in its sole discretion, any necessary replacement parts found to be defective. Should the product need to be returned to Logan for repair or replacement parts, authorization for any return must come from Logan in writing. Costs of returning the product to Logan, including insurances, shall be borne by the purchaser. Logan shall not be liable for any damages or losses, incidental or consequential, direct or indirect, arising from the use of this product. This warranty extends only to the original purchaser and is not assignable or transferable. This warranty is in lieu of all other warranties, expressed or implied. Be advised that any Logan products purchased as “new” from an unauthorized dealer, such as an online auction site or similar, may be void of their warranty.