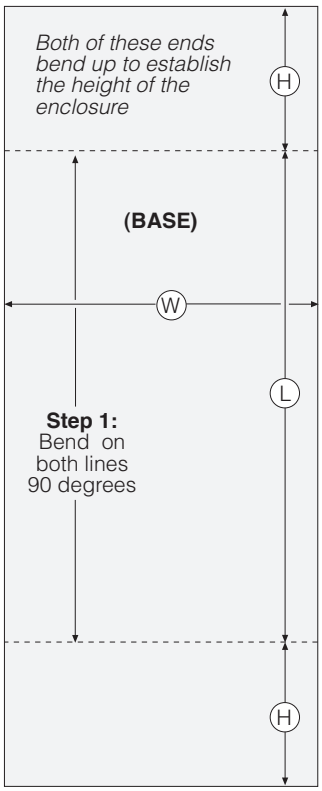
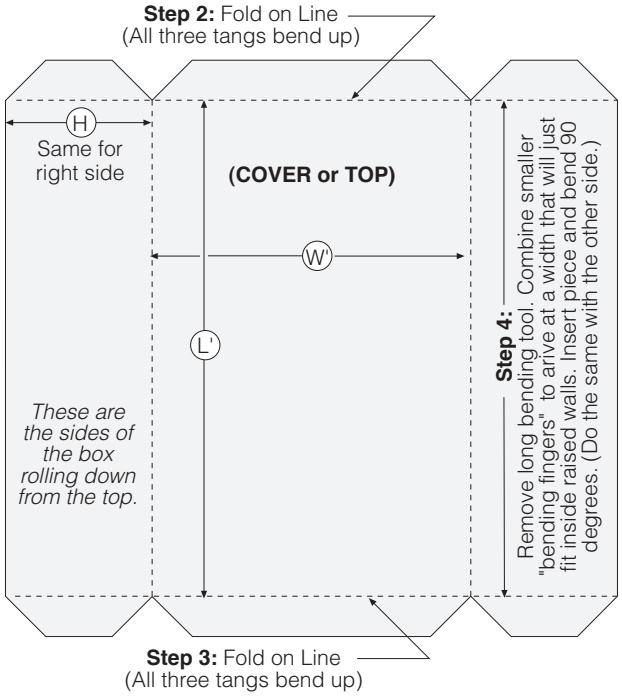
How To Make A Custom Interlocking Enclosure with the 8" Mini-Shear



Bending Procedure:



Step 1: Draw a rectangle the size required for the circuit board, (reference "W" and "L" dimensions on the "BASE" of the sample drawing).

Step 2: Now add the height requirement of the project. This dimension is added laterally so as to extend the overall length of the BASE, (refer to dim. "H"). Draw lines to identify this "height" from the "base".

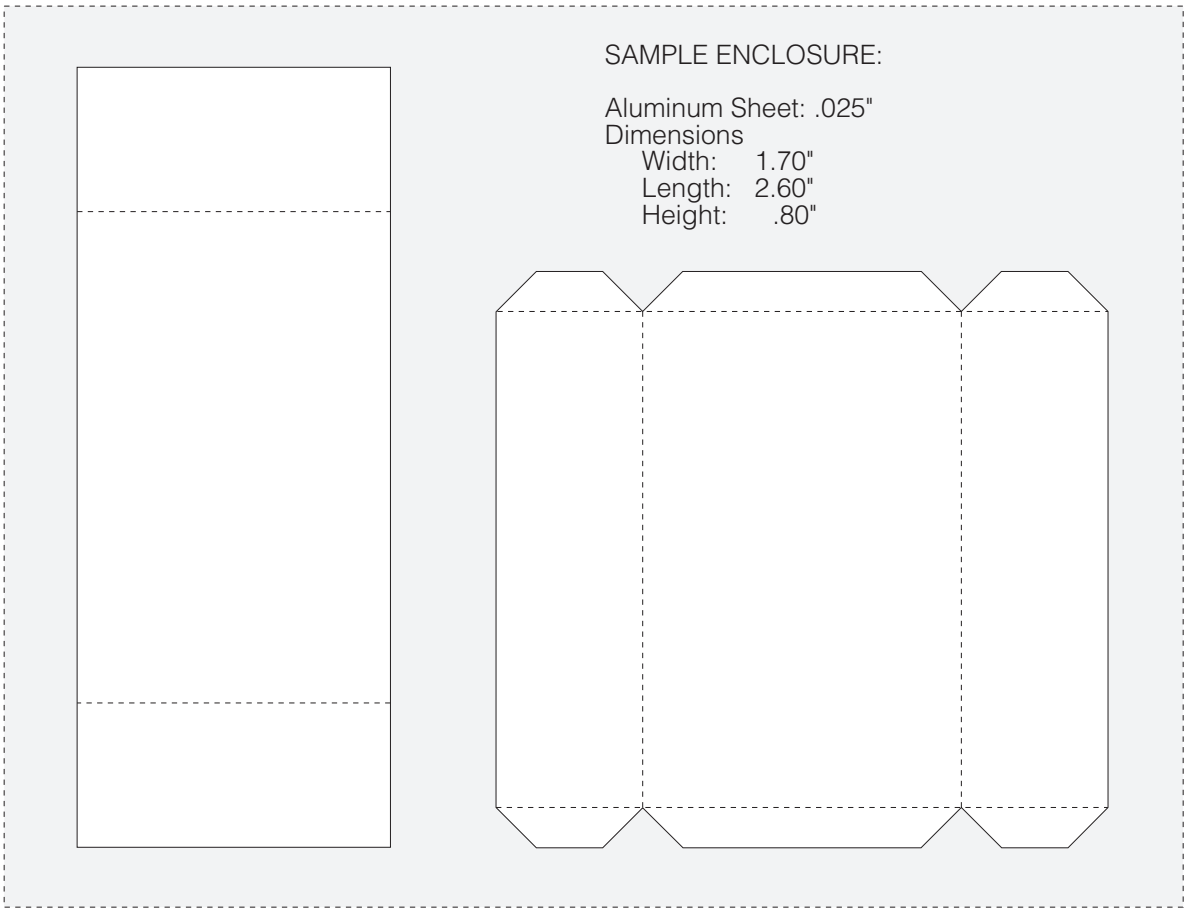
Step 3: Determine material thickness to use. (This example is for 1/32" or .025"). You will be adding this dimension once to the W' & L' (prime) dimensions of the COVER drawing. (The two primary dimensions must include the material thickness or the COVER won't fit over the BASE).

Step 4: All triangular "indentations" on the COVER drawing are on 45 degree angles. (When the "runners" are folded and bent 90 degrees you'll get very tight interlocking corners.)

Step 5: Cut out the the grey area (below) from this page, apply a very light coat of spray adhesive on the back of the paper and rub down over a piece of cleaned aluminum. You will be using these markings for fabrication and then removed after the box is completed, (no scribe marks!)

Step 6: Using the shear, separate and trim both BASE and COVER. Trim pieces to their perimeter edges using the top cutting area of the shear and remove the 4 edges of the COVER. Scissors can be used to cut the 4 inside corners, however, a Dremel sabre saw and belt sander helps makes very tight corners.

Step 7: Follow the bending procedural steps, (left), to actually form the box.



Getting Bends Right Over The Line...

To aid in proper alignment of the aluminum into the box brake, we suggest putting a bright light very close to where the bending block is located. With the aluminum in position, carefully lower the handle to place the "bending fingers" just touching the aluminum.

To get the exact spot for bending, (right over the fold line), jog the aluminum until the folding line just disappears from view. You are over the line and ready to pull the handle to make the bend.

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