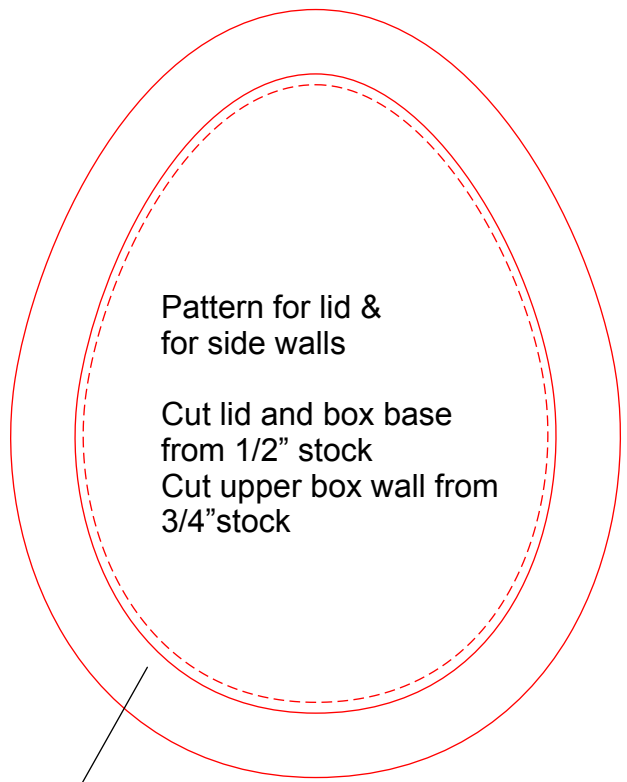




Pattern for egg and chick
Cut segmentation design
from 3/4" stock



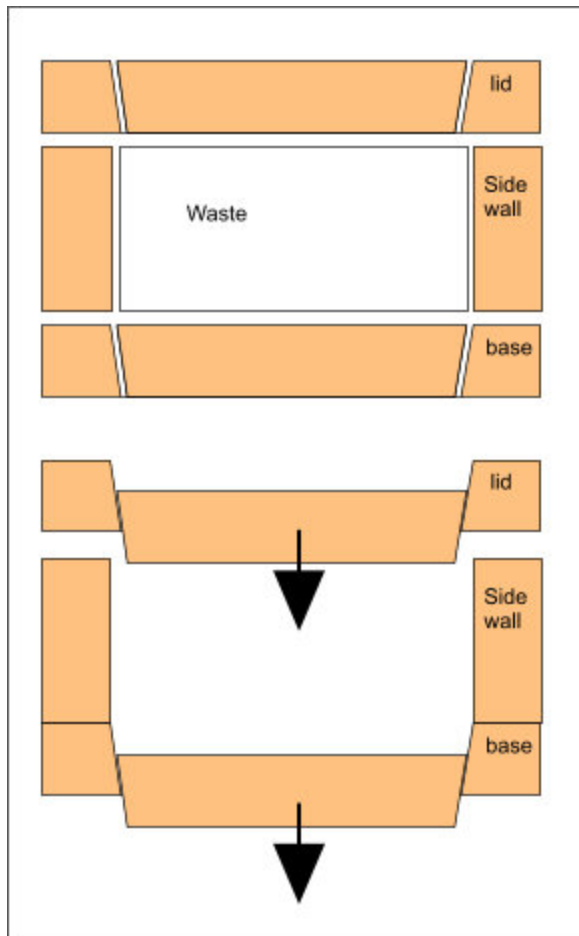
Pattern for lid &
for side walls

Cut lid and box base
from 1/2" stock
Cut upper box wall from
3/4" stock

cut inner ring (solid line) with #5 blade and your scroll saw
table set at 4 degree angle
(left side of table tilted downwards and line cut in clockwise
direction

Note - if you want to achieve a tighter lid to box fit cut the box
wall and its base to the dotted inner profile line

For an explanation of how to cut the lid and base using a tapered cut refer to this diagram



Dependent on the accuracy of the tilt gauge on your table and the thickness of the saw kerf you cut you may have to experiment to achieve the correct angle such that the cut section of the lid and the base drops exactly half way down into its outer ring.

If the inner section drops down too far you need to increase the angle of tilt.

If it doesn't drop down far enough decrease the angle of tilt

The golden rule here is always cut a small test circle in a piece of scrap timber equal in thickness to that you will use for the lid and base and see what happens. If not to your liking adjust the tilt accordingly

One other point regarding the fit of the lid to the box.

Because the step down lid is cut at a taper the fit into the box will be a little slack. If you want to improve this fit you can modify the box wall and the base to cut the inside profile approximately 1/16" smaller than that marked on my plan. This will result in a much tighter fit.

Some sanding tips

For the box - after cutting the base wall and lid. glue the lower part of the lid into place. This will make the rim stronger when sanding - you don't want to break it by accident! Do the same with the base.

Next assemble the three pieces together using small strips of double sided sticky tape between the pieces to hold them firmly together. You can now sand to shape with confidence. To separate the pieces after sanding dribble a little mineral spirits or thinner where the sticky tape is and the thinner will dissolve the glue and make the pieces easier to separate. Clean off the gluey area with a rag dampened in spirits.

For the egg - use double sided sticky tape again to stick the cut parts together. Next cut an egg shaped sanding shim - this is a piece of thin plywood or MDF cut to the same shape as the inner ring of the lid. Also use the tape to stick the assembled egg parts to the shim. You should now have a firm assembly which is easy to sand.

After you have the shape you want use mineral spirits to free up the stuck together parts.

Have fun!!