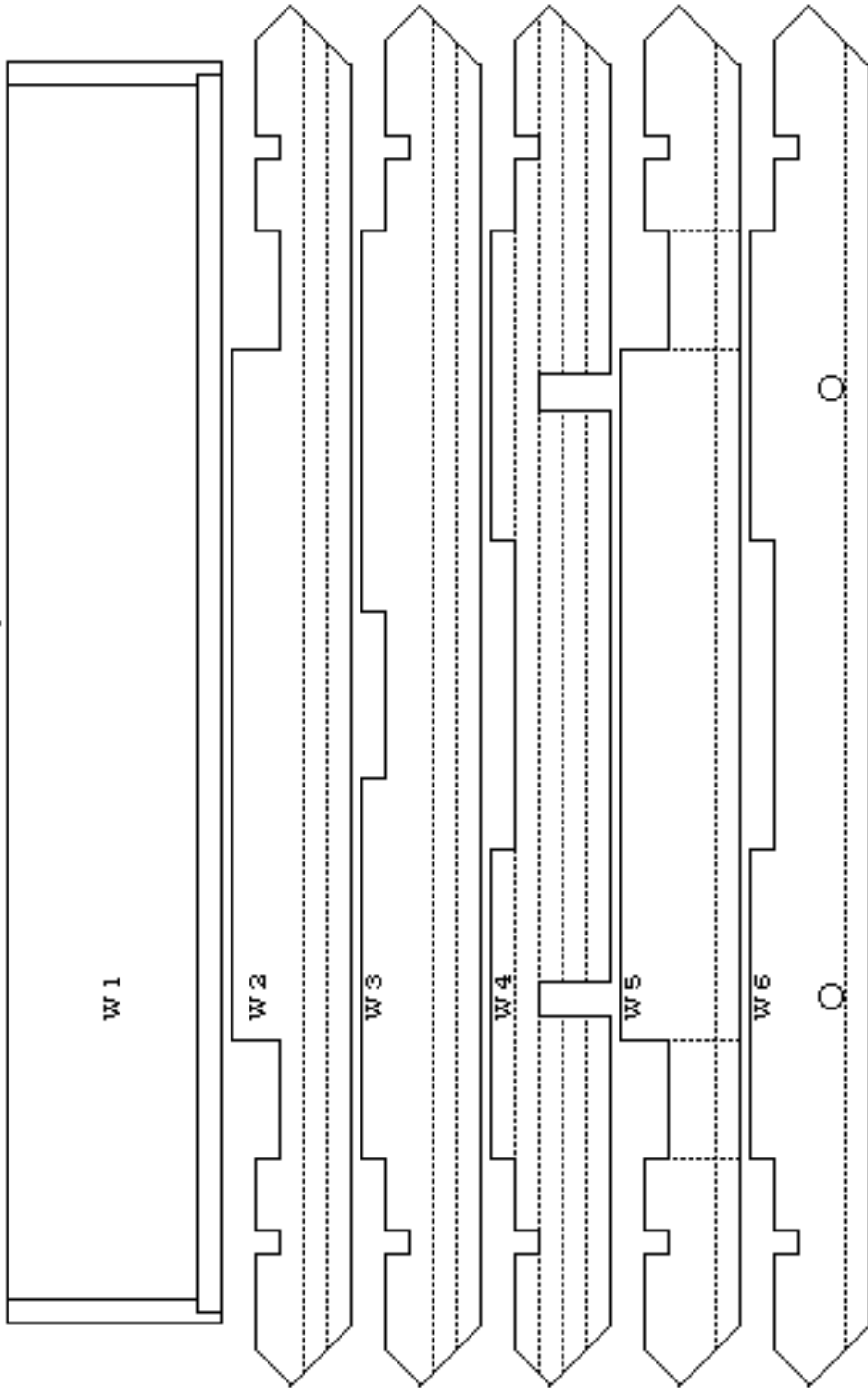


Part	Name	# Pieces	Part	Name	# Pieces
W 1	Inside Wall	4	M 1	Lower Main Lock Spacer	6
W 2	Hinge Rail	2	M 2	Lower Spacer	6
W 3	Bottom Rail	3	M 3	Upper Spacer	6
W 4	Top Rail	3	M 4	Lower Main Lock Glide and Key	6
W 5	Lid Hinge Rail	1	M 5	Key Bracket and Spacer	6
W 6	Lid Rail	3	M 6	Glide Lock	3
F 1	End Brace	8	M 7	Glide Lock	3
F 2	End Channel Filler	6	M 8	Glide Lock	3
F 3	Channel Biscuit	4	M 9	Glide Lock	3
F 4	Bottom Channel Filler	4	M 10	Guard	6
F 5	Small Support Bracket	16	M 11	Upper Main Lock Glide	6
F 6	Large Support Bracket	16	M 12	Upper Spacer	6
F 7	Hold Down Bracket	6	M 13	Glide Lock	6
F 8	Hinge Bracket	2	M 14	Glide Lock	6
F 9	Center Lock Filler	3	H 1	Lower Hinge	6
E 1	End Lock Cover Plate	8	H 2	Upper Hinge	4
E 2	Angle Brace	4	H 3	Lower Hinge Spacer	4
E 3	Glide	8	H 4	Upper Hinge Spacer	6
E 4	Lock	6	H 5	Hinge Dowel	2
E 5	Lock Spacer	6	L 1	Lock Pin Cleat	12
E 6	Lock Dowel Cover Spacer	6	L 2	Lock Pin	6
E 7	Lock Dowel	6	S 1	CalmPlex Code Keys (cut from 1/32 inch stock either as complete puzzle pieces or to represent the tessellation)	12 or (64)
C 1	Center Lock Cover Plate	3	S 12	Marker Dot	6
C 2	Glide	3	S 13	Slider Bar	12
C 3	Glide Base	6	P 1	Plywood for Lid - 6 3/4 x 6 3/4 x 1/8 inch	1
C 4	Glide Bracket Cover	6	P 2	Plywood for Base - 6 1/2 x 6 1/2 x 1/8 inch	1
C 5	Glide Bracket				
C 6	Center Lock Base				

BEA Media Inc. assumes no responsibility for any errors or omissions. These drawings are intended as a guide only.

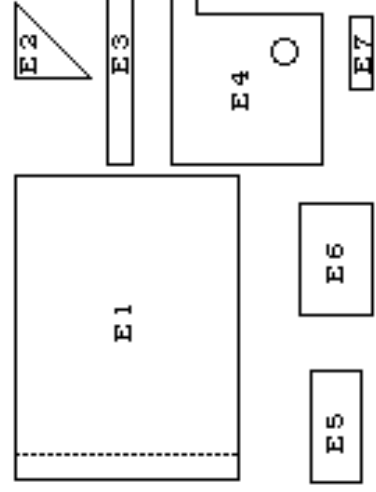
Wall Assembly



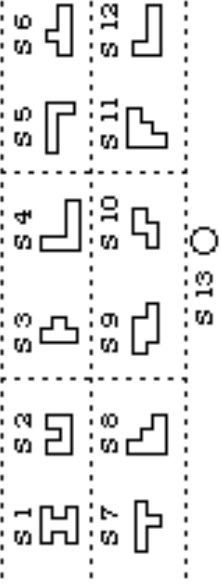
Fillers



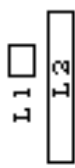
End Lock Assembly



Slider and Calmplex Puzzle Group Keys

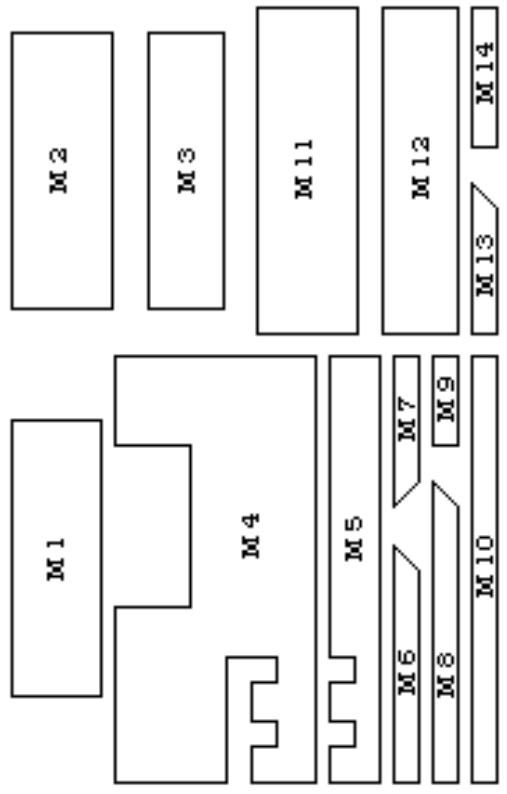


Lock Pin

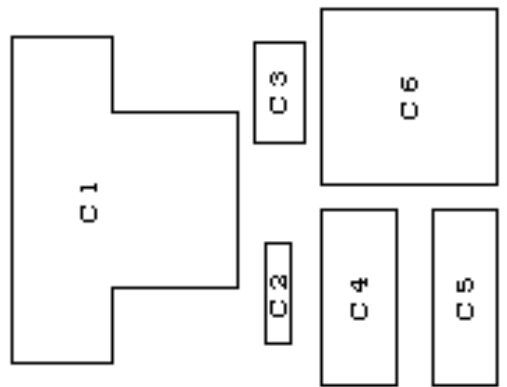


P 1 & P 2  
Lid & Base  
Panels  
Not  
Shown

Main Lock Assembly



Center Lock Assembly



Hinge Assembly



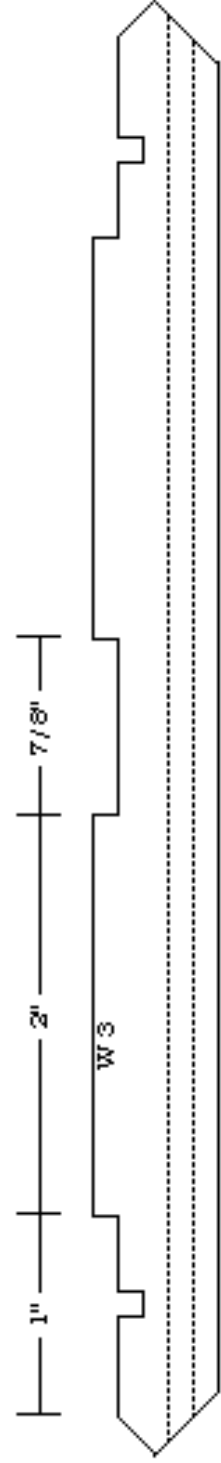
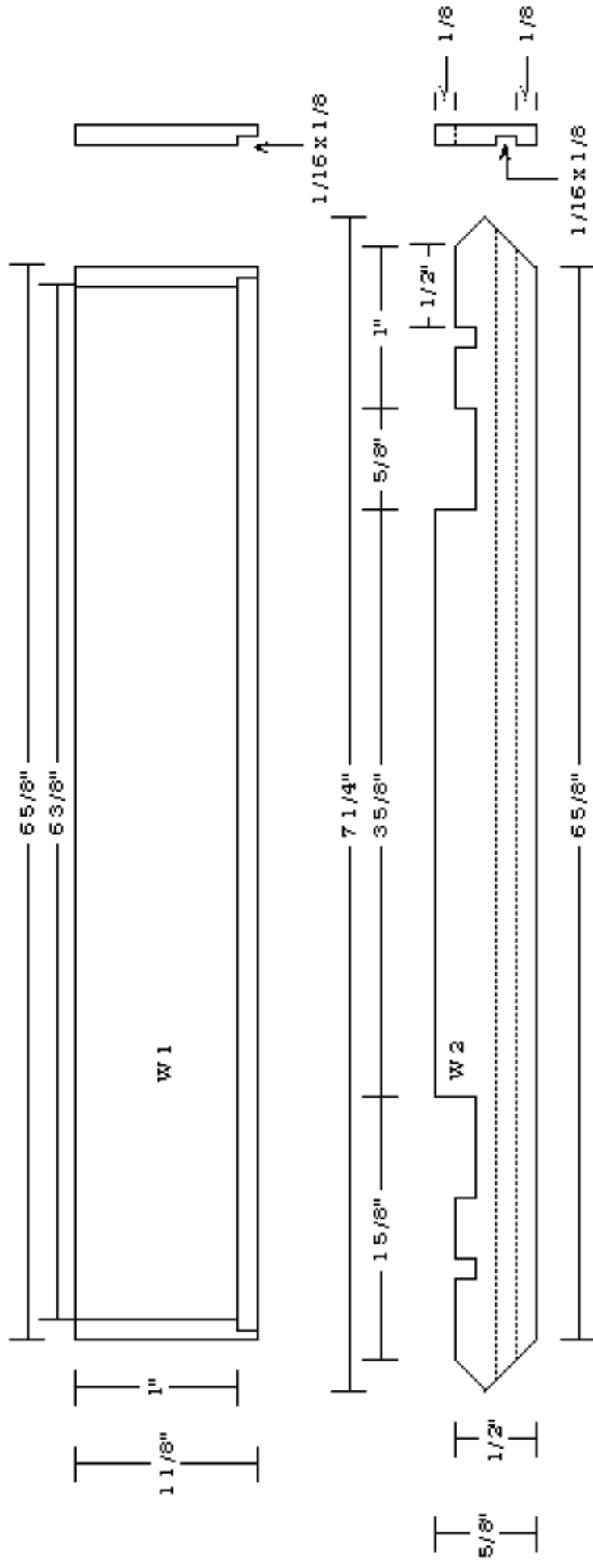
**Calmplex™ 32 Step Puzzle Box**

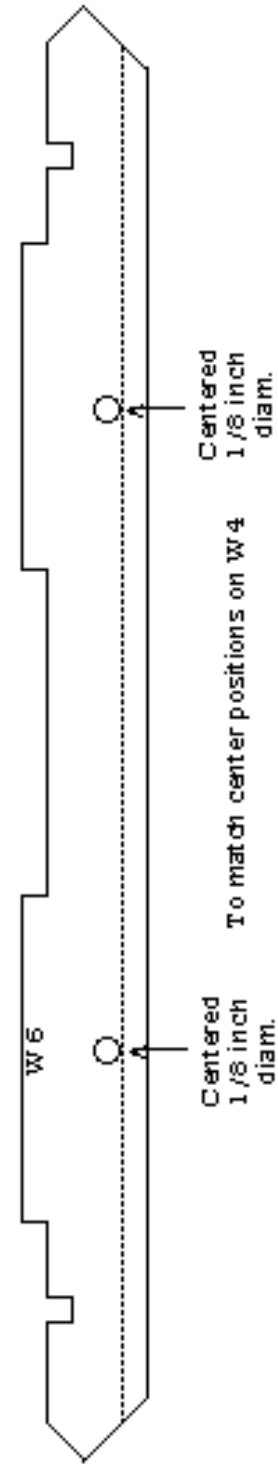
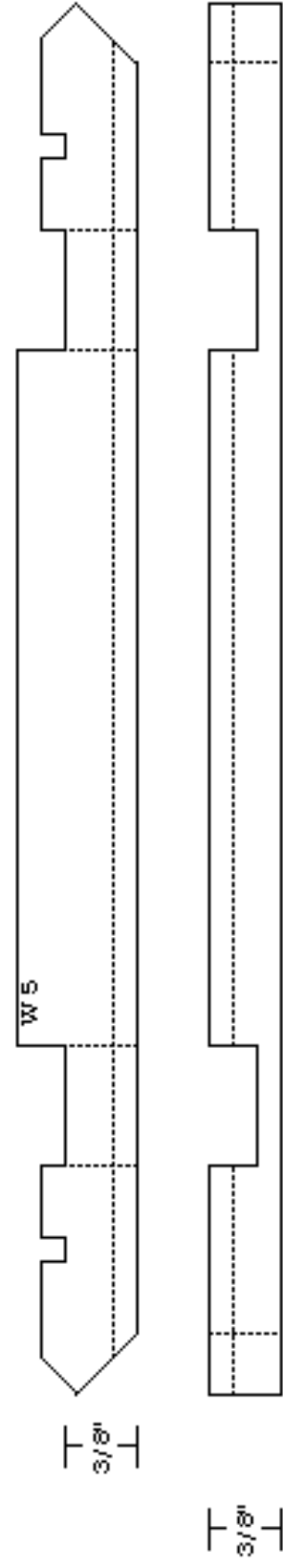
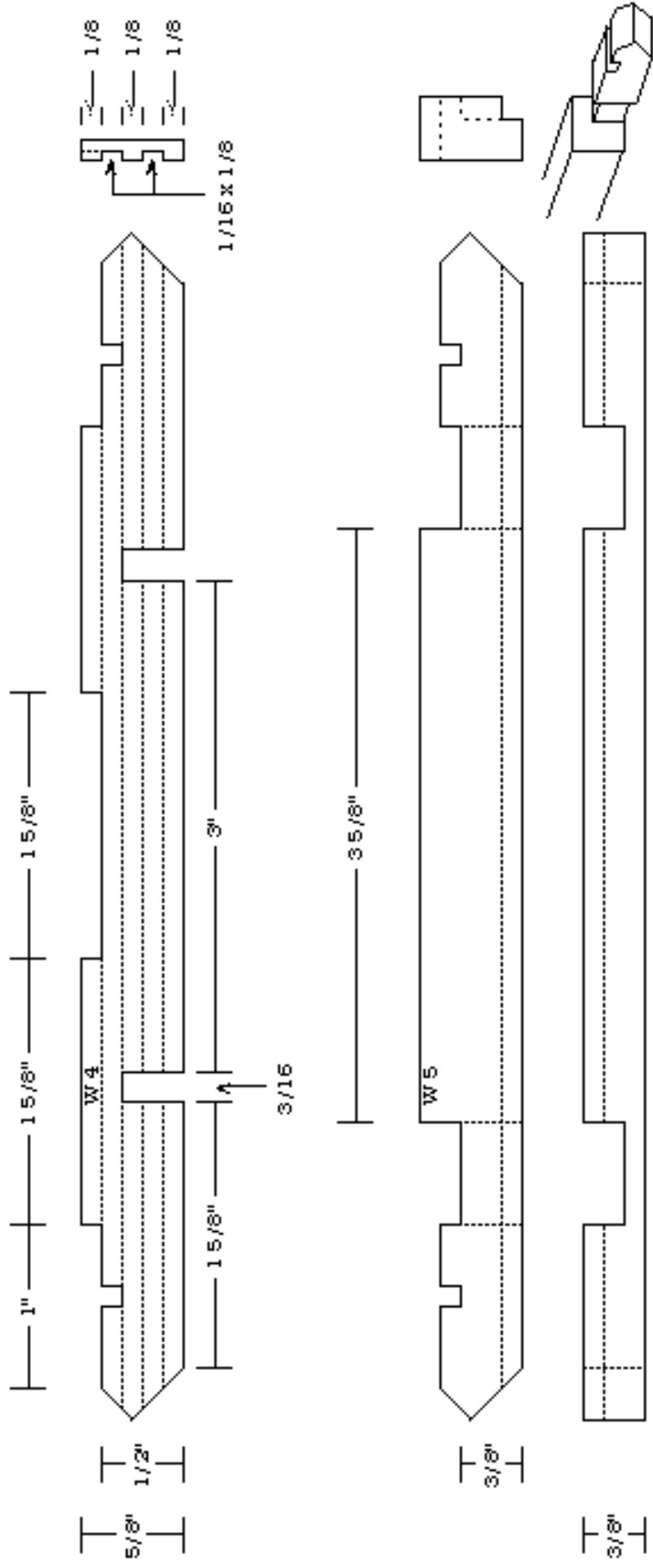
1 inch = 1 inch  
31 Oct 1998

Parts  
Identification

Page  
**2 of 11**

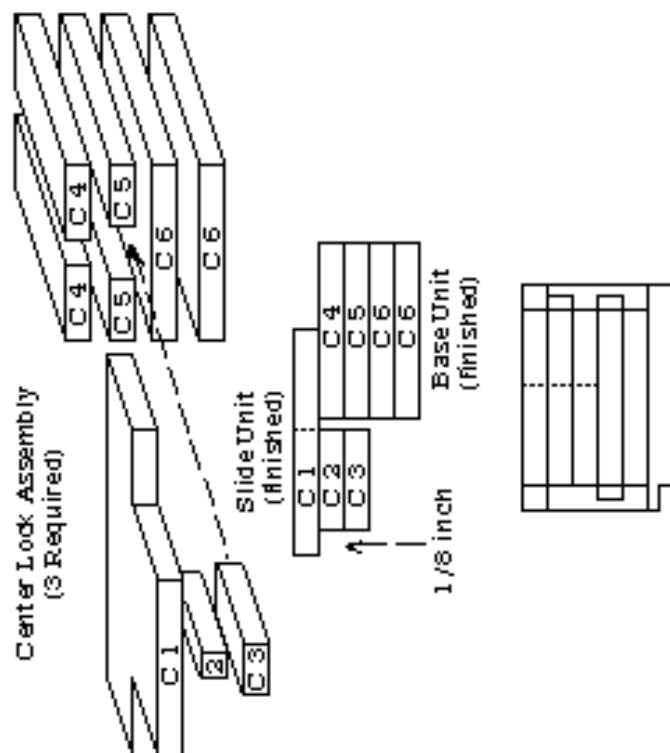
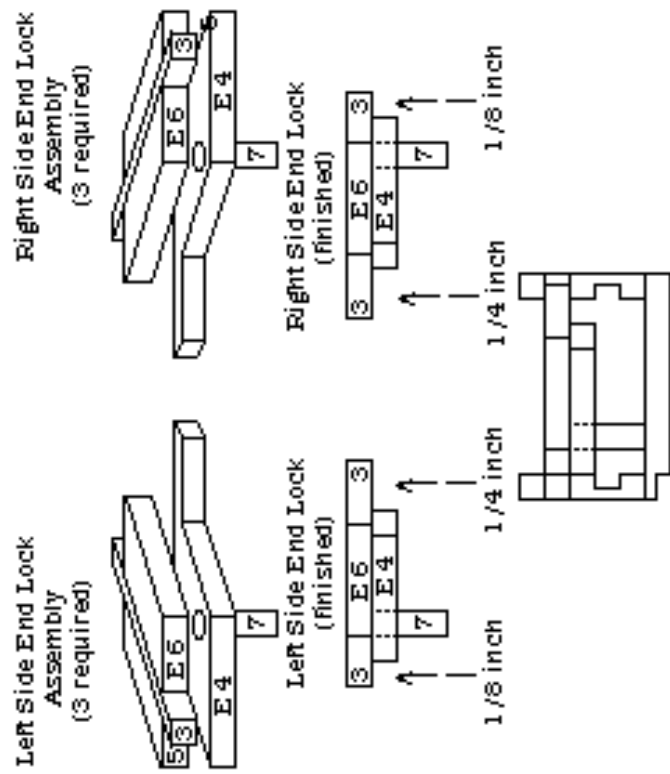




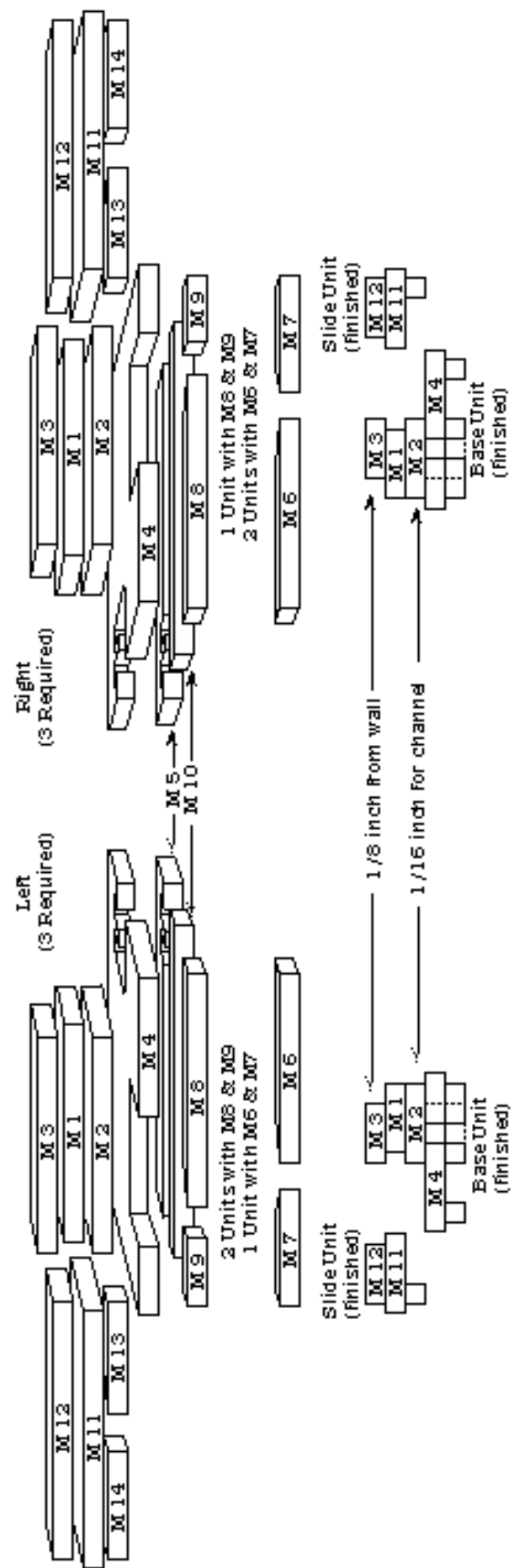


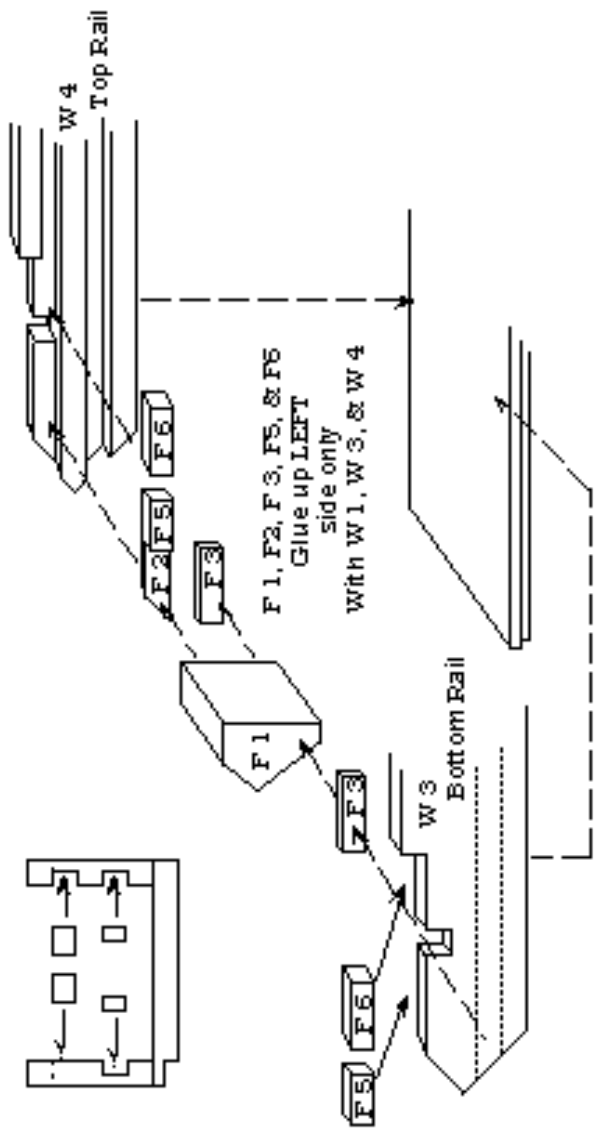
**CalmPlex™ 32 Step Puzzle Box**



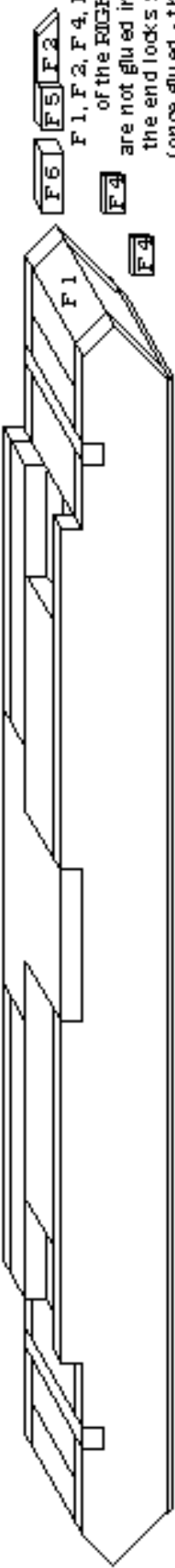


**Main Lock Assembly**

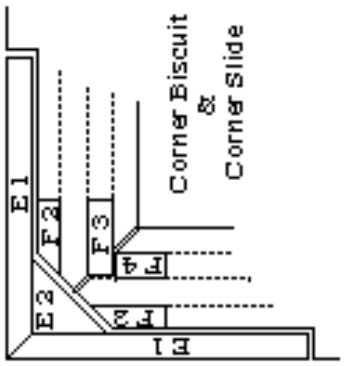




Walls for Locks  
(3 Units)



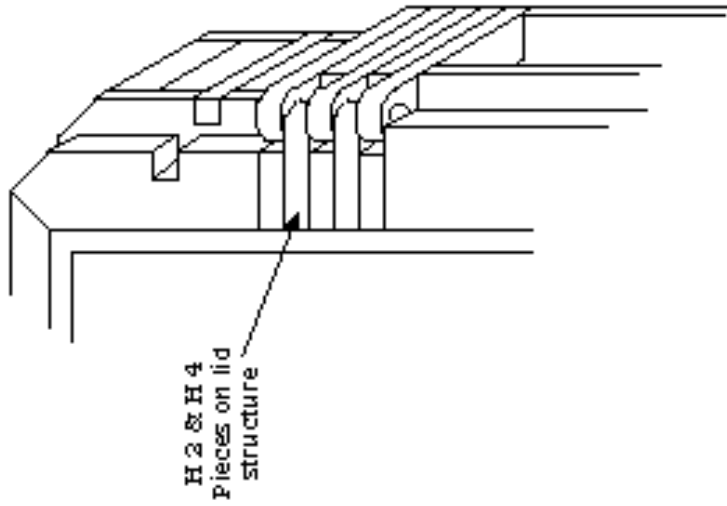
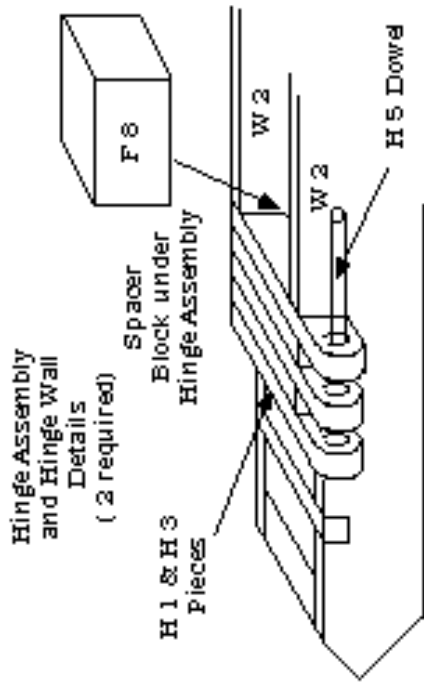
F6 F5 F2  
 F1, F2, F4, F5, & F6  
 of the RIGHT side  
 are not glued in place until  
 the end locks slide freely  
 (once glued - the locks are  
 not removable)



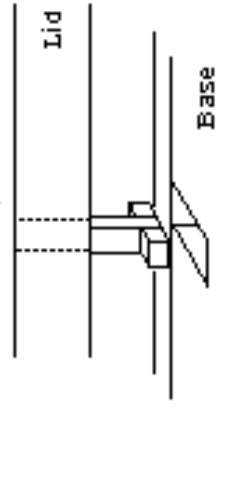
Use Locks and F1 for spacers when  
gluing up the sides with their bases

**CalMPlex™ 32 Step Puzzle Box**

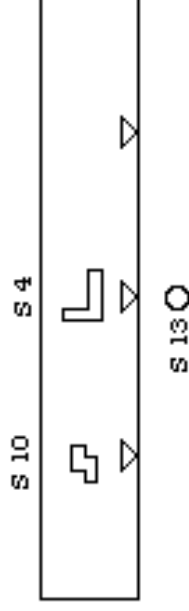
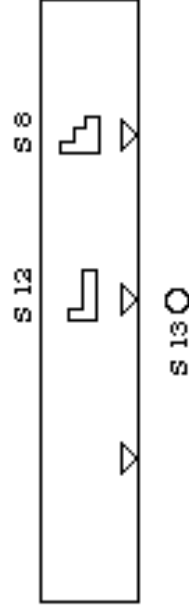
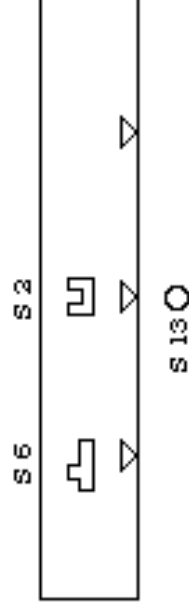
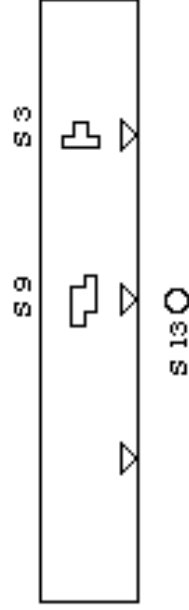
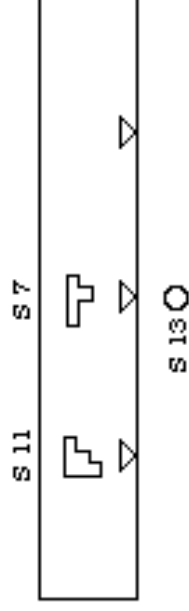
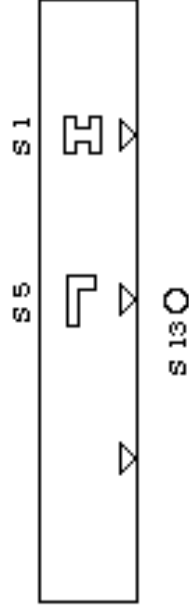




Lock Pin Details  
(6 required)



L2 is rounded to fit into predrilled lid holes with L1 cubes to each side. The pin then slipsthrough the base and into the main locking assembly



The above examples show the coding possibilities!  
 Where you place the main center locks in each of the  
 wall units will dictate where you place the  
 CalmPlex piece icons.

These pieces may be  
 set 'into' the wood or  
 simply placed on top.

Also, you may cut the  
 pieces into the actual  
 tessellated pattern or  
 simply show as 'glyphs'!

**The CalmPlex puzzle  
 has 2 unique solutions  
 for the 4x4 shape.**

**These are the 'Keys' to  
 solving the 32 step  
 puzzle box.**

They also form the 4x8 shape!  
 ...and the 2x4x4...

At each 'OPEN' lock position is where you  
 place the key piece icons of  
 S5, S9 & S12 and S7, S2 & S4.

As noted on my web site  
 in the GF-animation!

<b>CalmPlex™ 32 Step Puzzle Box</b>		
1 inch = 1 inch 31 Oct 1998	CalmPlex Pieces	Page <b>10 of 11</b>

The final outcome of this project will be dictated by your degree of accuracy in cutting the various pieces and indeed your degree of 'perfection' with this task.

The actually assembly will take MANY hours since pieces must be 'tuned' to perfection.

Use of hardwoods such as birch are highly recommended.

Simple techniques with clamping such as using 'clothespins' and 'rubber bands' are also highly recommended as is the sometimes laborious task of simply 'holding' the piece until the glue sets.

I have found that soap flakes work better as a 'sealant' and a lubricant for the glides better than the use of common wax.

Surgical syringes filled with glue are the best application method since any 'spill-over' needs to be wiped clean if you plan on applying some final stains or varnishes. Wiping that excess glue off with water will have dramatic effects with these small wood pieces!

'Emery board' sandpaper works great! So does a 1/8 inch square file!

Assemble all locks first!

These are used as 'spacers' for the wall assembly.

Note the 'Right'/'Left' orientation of the locks.

Note the orientation of the 'base' to allow for the plywood cover.

When using the locks and spacers in assembly of the walls be VERY careful with the glue!

DO NOT glue the spacers into the channels until you are sure that the locks can slide freely.

Ensuring that the locks slide freely is the most critical step!

THEN ensure you 'soap' (or wax if you prefer) all movable parts.

When completed, there are many options for 'filling' all the gaps. These instructions encompass only the detailed workings of the box. The best all-round solution would be the traditional use of marquetry for all those finer details.