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KIT S-05
MARCH 2019
S SCALE

INTERLOCKING SIGNAL TOWER

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Thank you for purchasing our kit! We worked long and hard to produce a quality product and highly detailed easy to follow assembly instructions, that when completed will enhance any layout. We hope you enjoy building it as much as we had designing it.
Begin by identifying all parts and read though the instructions. If you plan on brush painting we recommend that you paint both sides to reduce warping. We have included extra wood sticks to add additional strength to your structure.
We personally like to "pre-distress" the wall sections using a fine brass wire brush and medium sandpaper. Lightly sanding in one direction with following the direction of the engraved boards then using the wire brush the clean dust from engraved lines will give you a great wood grain finish when painted and weathered.

TOOLS RECOMMENDED:

SHARP HOBBY KNIFE WITH NO. 11 BLADE
Diagonal flush cutters for trimming fine wood trim and removing plastic parts from sprues
Tweezers
Square (optional, you may also use laser cut parts or scrap as a square)
Clamps
Pencil
220 grit sand paper
100 grit sand paper
X Acto razor saw (No. 235 or equivalent)
Ruler
WIRE SIZE Drill bits #69 #79 #80

GLUES:

Wood, plastic, white metal and paper. For fast adhesion.
CA Cement aka super glue. We prefer Hobbybond Thick. Locktite Super Glue is a good alternative. Do not use on clear plastics.

Wood, paper. Slow adhesion.
Elmers Wood Glue
Wood to paper. Fast adhesion. (roof shingles , roofing paper ect.)
3M General Purpose 45 spray glue. Spray one surface for easy removal; spray both surfaces for permanent adhesion.
Wood, paper, plastic. Fast temporary adhesion.
Elmers Washable glue stick. Use to dry fit parts, wipes off with damp paper towel.
Clear Plastic and Styrene
GS Hypo Cement AKA watch crystal glue. WILL NOT HARM CLEAR PLASTIC AND STYRENE.

PAINTING:

Primers: We like Ace Hardware gray primer.
Finishing Colors: Both Floquil and Polly S brand paints are top of the list for brush on or air brush application. We have found that we can get excellent results from spray paints. Satins and flats work the best. Kyrlon and Ace Hardware paints are at the top of the list. Kyrlon makes paint for plastic and dries in less than 10 mins. When using spray can colors for the final color we do not use a primer. No primer coat is necessary if using an airbrush either. Unless you want to do the wire brush peeling paint effect described later in the instructions

WEATHERING YOUR STRUCTURE:

We prefer to wait until the structure is assembled before applying weathering. We like to use pastel chalks, India Ink/Alcohol or light wash of some sort of grimy color. I use darker colors to weather light colored objects and lighter colors for weathering dark objects.

WOOD WARP AND WOOD BREAKAGE

If you saturate the wood with paint or stain from a brush, it will warp. Sometimes the wood warps when you are careful too. Don't panic and be patient. If the wood warps, let the paint or stain dry for a few hours, then cover the parts with wax paper and press with a heavy object for about 24 hours. The parts should be much straighter after doing this.

It is common to have a little warp in the larger wall pieces until they are assembled. The walls will straighten as you are building the kit. Gluing the walls to one another and adding bracing helps in straightening the walls. Hence the supplied wood sticks used for bracing and support.

If you break a part, chances are very good that you may glue it back together, allow it to dry and proceed with assembly. If you damage a part so bad that it cannot be glued together, we will replace it. Please contact us with kit number and part number.

INTERLOCKING SIGNAL TOWER

NOT TO SCALE

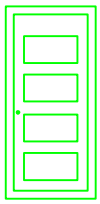
PARTS LIST 1

S SCALE

All windows and doors provided with this kit are manufactured in styrene by Tichy Train Group.

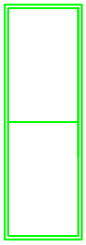
3513

2 each



8096

17 each



2 each LAMP SHADE

BRASS WIRE

CHIMNEY

Glazing Instructions

1. paint door or window first.

2. Use clear styrene glazing pieces provided with kit. Glue to inside of structure behind window or door opening.

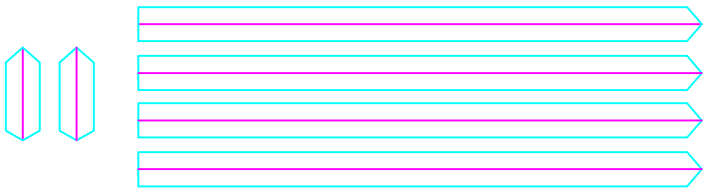
3. Use masking tape or first aid tape to create window shades, tape behind windows on clear styrene.

Window and Door Painting Tip

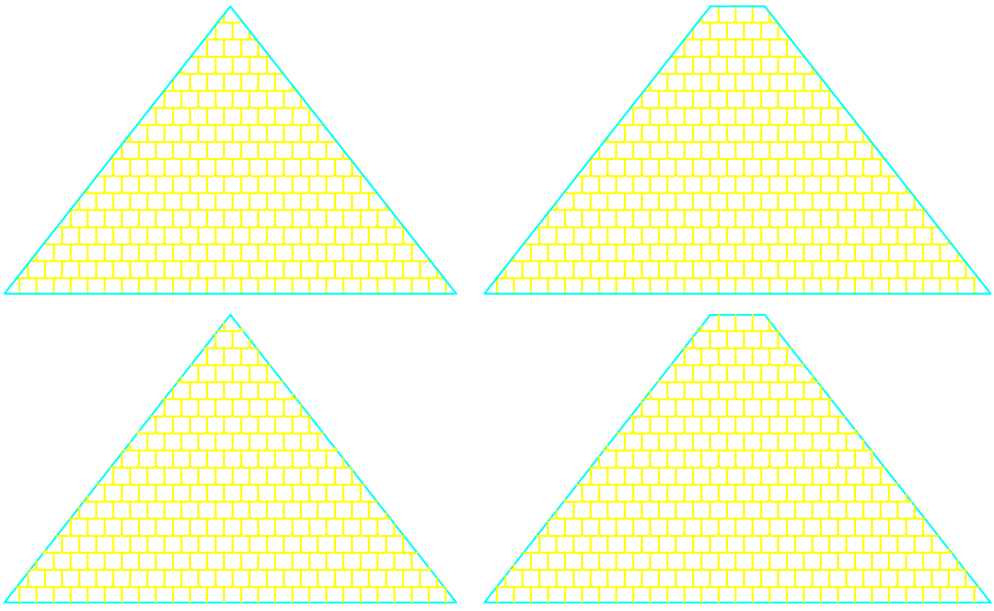
Painting the windows and doors with gray spray can primmer and let dry. Use very fine brass wire brush and brush them in one direction to get slight woodgrain texture. Then paint your chosen color on top of primer. Allow to dry. To get the weathered pealing paint effect, use medium brass wire brush and lightly brush to remove top color and expose the gray primer.

*If kit uses styrene roofing it is recommend that sheets be prepainted with at least the base color you choose such as silver or black after cutting this will insure white edges will be covered. Weathering can be done later. This will save you having to mask the building.

FLASHING

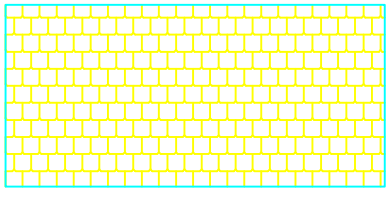


ROOFING MATERIAL



ROOFING MATERIAL AND FLASHING NOTE

GLUE ON FOR S AND O SCALE
PEAL AND STICK FOR HO AND N SCALE

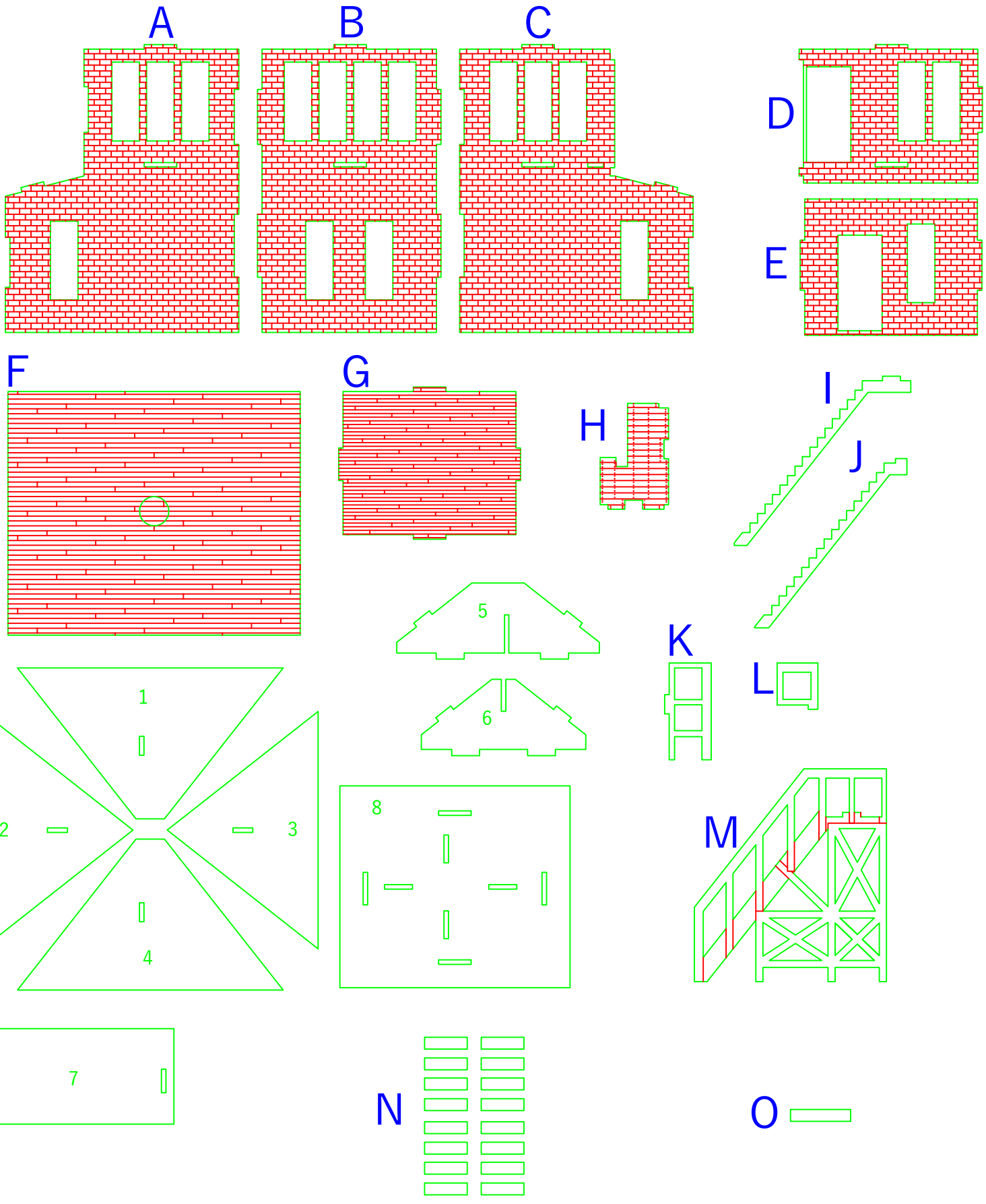


INTERLOCKING SIGNAL TOWER

NOT TO SCALE

PARTS LIST 2

S SCALE



INTERLOCKING SIGNAL TOWER	KIT S-05 FEBRUARY 2019	PARTS NEEDED FOR THIS PAGE				PAGE 4
		QTY	PART#	QTY	PART#	
		1	WALL A	1	WALL B	
		1	WALL C	1	WALL D	
		1	WALL E			
STEP 1,2,3	S SCALE	1	FLOOR G			NOT TO SCALE
		1	ROOF 8			
		1	ROOF 7			

STEP 1

USING THE SLOTS AND TABS GLUE WALLS C AND B TOGETHER AND INSERT FLOOR G IN PLACE. THEN GLUE WALLS A AND E IN PLACE AND THEN WALL D. USE RUBBER BANDS TO HOLD STRUCTURE TOGETHER UNTILL GLUE DRIES. FIG. 1

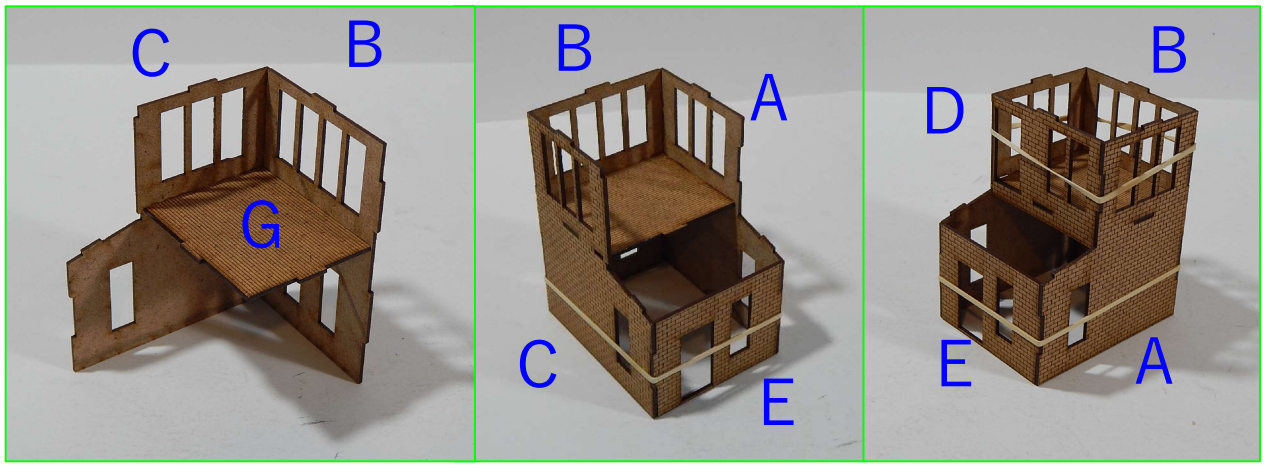


FIG. 1

STEP 2

SUGGEST TO MASK THE FLOOR WITH PAINTERS TAPE SO THE STRUCTURE CAN BE PAINTED. WE SPRAYED OUR STRUCTURE WITH ACE HARDWARE RED OXIDE PRIMER. ONCE DRY IT WAS SPRAYED WITH KRYLON MATTE CLEAR. FIG. 2

FIG. 2

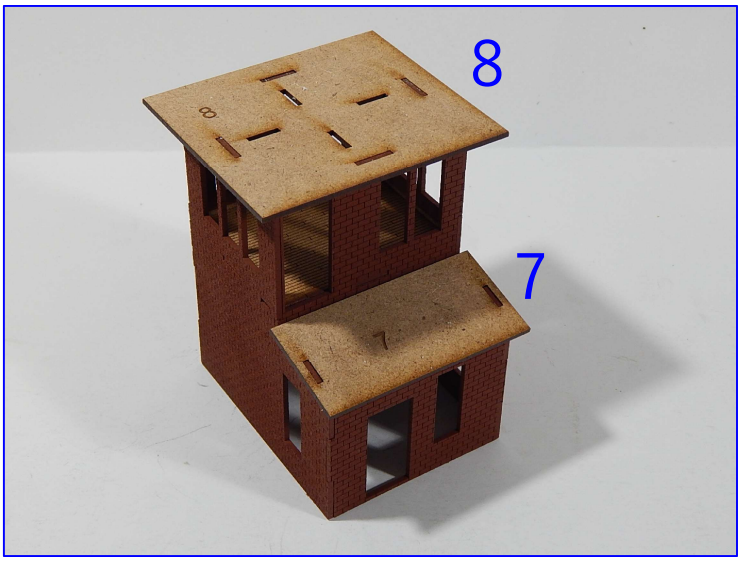


FIG. 3

STEP 3

PAINT ROOF PANELS 7 AND 8 PRIOR TO GLUING THEM IN PLACE AS SHOWN IN FIG. 3 (NOT PAINTED IN PHOTO FOR CLARITY)

INTERLOCKING SIGNAL TOWER	KIT S-05 FEBRUARY 2019	PARTS NEEDED FOR THIS PAGE				PAGE 5
		QTY	PART#	QTY	PART#	
		1	ROOF SUPPORT 5	1	STAIR STRINGER J	
		1	ROOF SUPPORT 6			
		1	ROOF 1			
STEP 3,4,5	S SCALE	1	ROOF 2			NOT TO SCALE
		1	ROOF 3			
		1	ROOF 4			

STEP 3

GLUE ROOF SUPPORT 6 IN PLACE BY INSERTING TABS INTO SLOTS ON ROOF 8. GLUE ROOF SUPPORT 5 IN PLACE AS SHOWN. FIG. 3

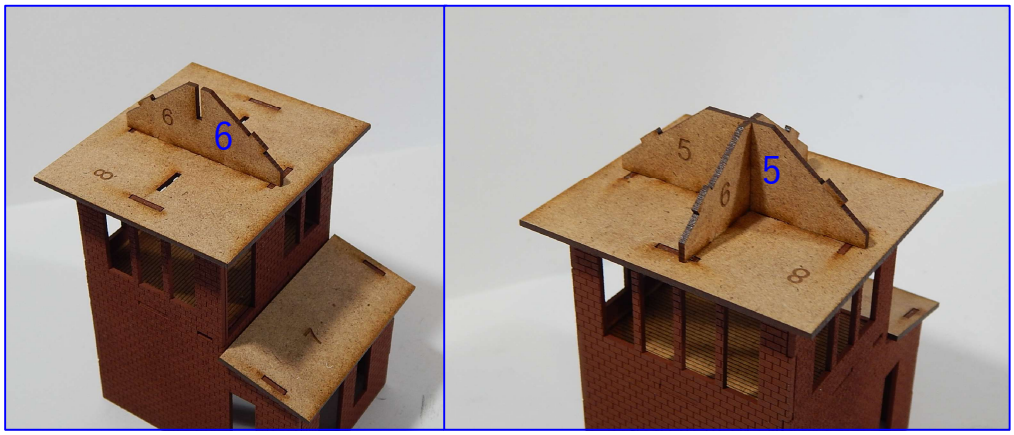


FIG. 3

STEP 4

GLUE ROOF PANELS 1,2,3 AND 4 IN PLACE AS SHOWN . FIG. 4

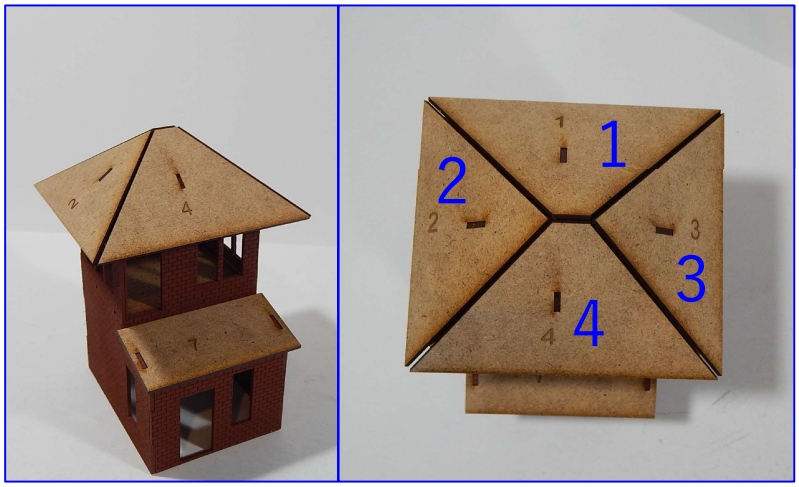
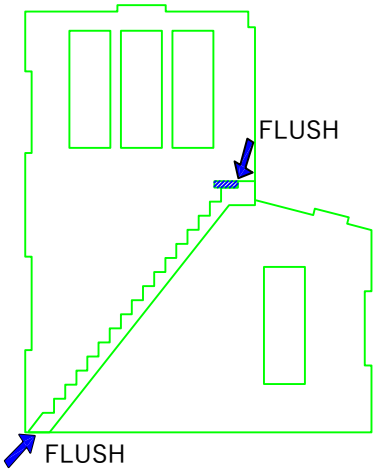


FIG. 4

STEP 5

GLUE STRINGER J TO SIDE OF STUCTURE MAKING SURE TAB ON TOP OF STRINGER IS FLUSH WITH RIGHT SIDE AND TOP OF SLOT IN THE STRUCTURE ALSO FLUSH TO BOTTOM OF STRUCTURE. SEE FIG.5



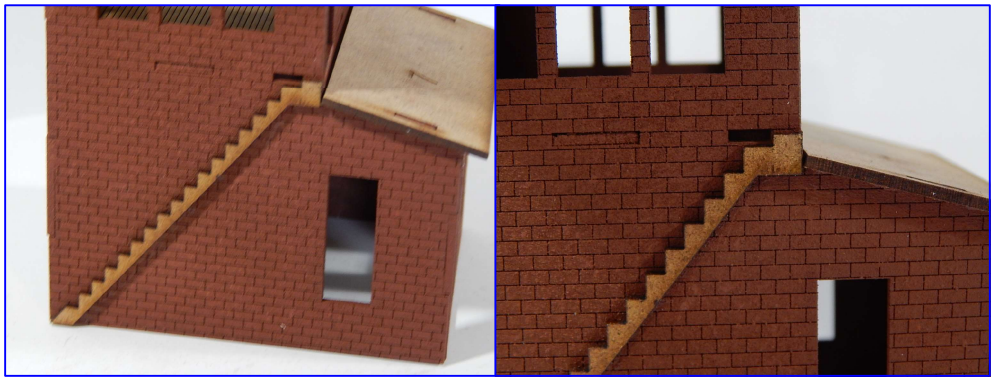


FIG. 5

INTERLOCKING SIGNAL TOWER	KIT S-05 FEBRUARY 2019	PARTS NEEDED FOR THIS PAGE				PAGE 6
		QTY	PART#	QTY	PART#	
		1	DECK H			
		1	STRINGER I			
STEP 6,7,8	S SCALE	1	STAIR SUPPORT M			NOT TO SCALE

STEP 6

GLUE DECK H IN PLACE BY INSERTING TAB INTO SLOTS ON STRUCTURE. FIG. 6

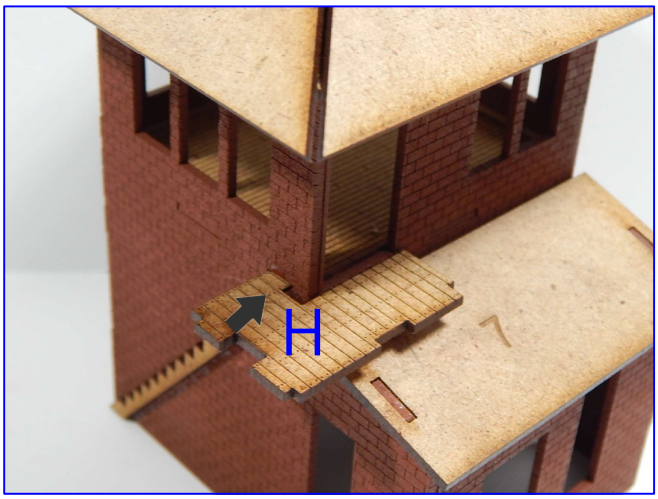


FIG. 6

STEP 7

GLUE STRINGER I TO THE BACK OF STAIR SUPPORT M (BACK IS NOT ENGRAVED) LINE UP TAB ON TOP OF STRINGER WITH TAB ON SUPPORT M. FIG. 7

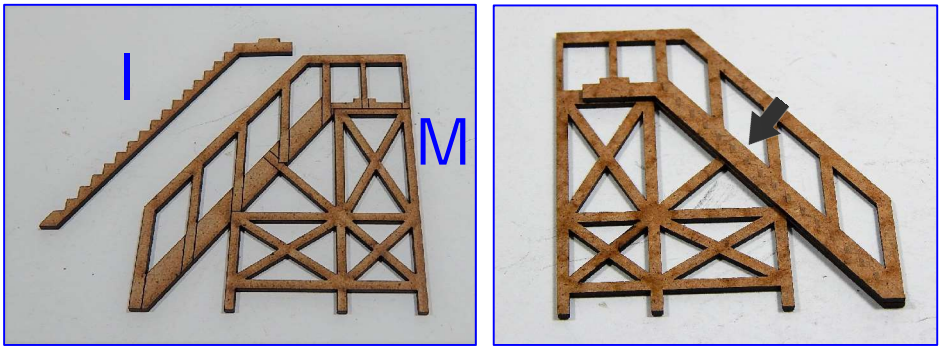


FIG. 7

STEP 8

GLUE COMPLETED STAIR SUPPORT TO DECK H AS SHOWN BY INSERTING TAB ON SUPPORT INTO SLOT ON DECK. FIG. 8

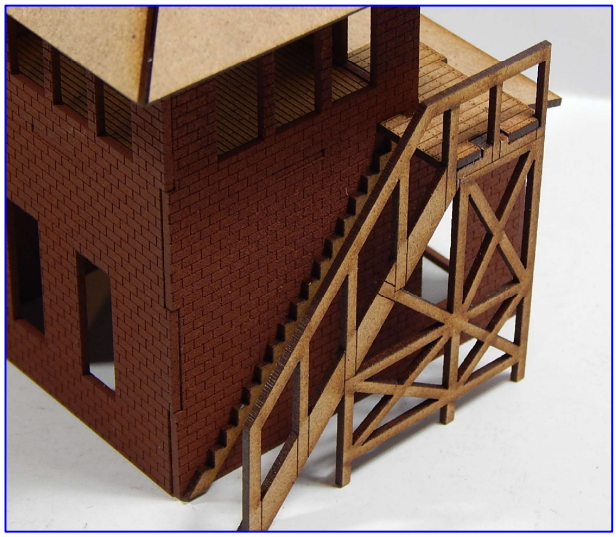
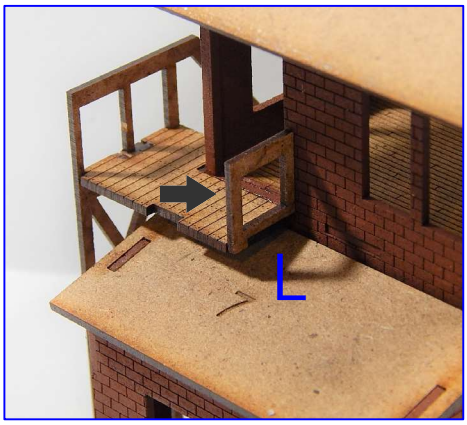


FIG. 8

INTERLOCKING SIGNAL TOWER	KIT S-05 FEBRUARY 2019	PARTS NEEDED FOR THIS PAGE				PAGE 7
		QTY	PART#	QTY	PART#	
		16	STEPS N			
		1	RAILING K			
		1	RAILING L			
STEP 9,10,11	S SCALE	5	ROOFING MATERIAL			NOT TO SCALE

STEP 9

GLUE RAILING L IN PLACE WITH TAB AND SLOT. THEN GLUE RAILING K INTO PLACE AS SHOWN. FIG. 9



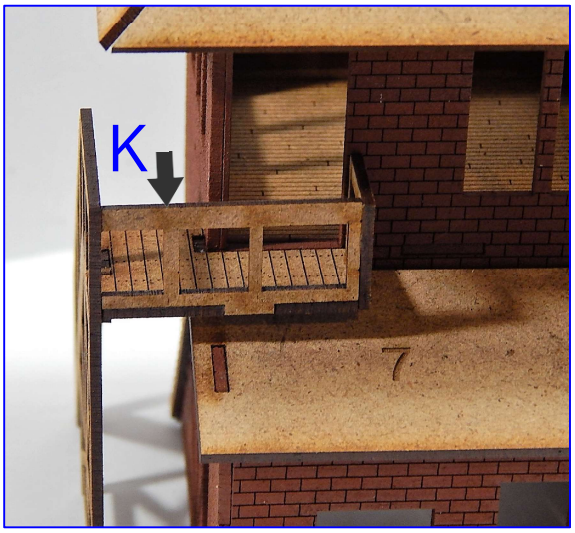


FIG. 9

STEP 10

GLUE ALL 16 STEPS N IN PLACE. FIG. 10

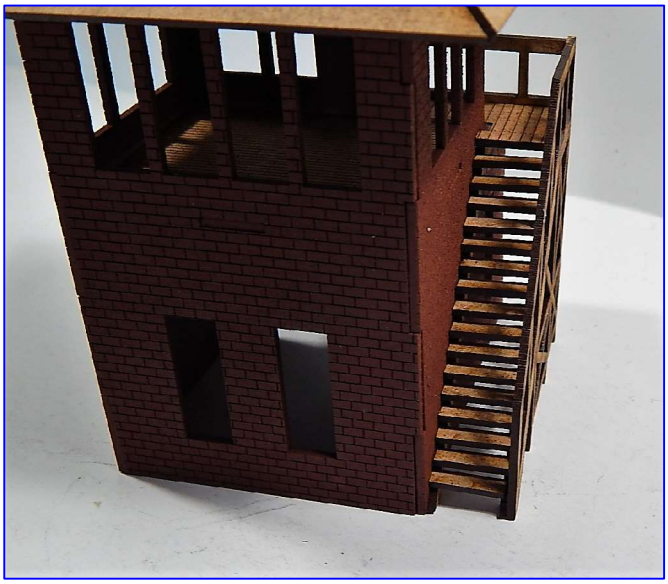


FIG. 10

STEP 11

FASTEN ROOFING MATERIAL TO APPROPRIATE ROOF PANELS. FIG. 11

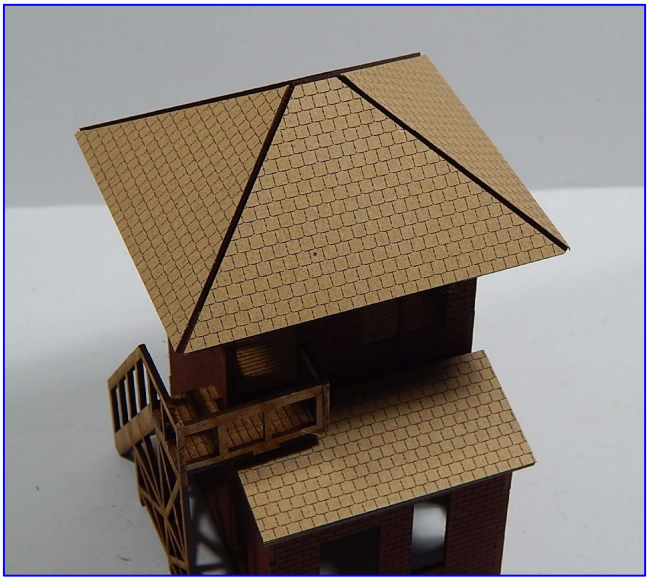


FIG. 11

INTERLOCKING SIGNAL TOWER	KIT S-05 FEBRUARY 2019	PARTS NEEDED FOR THIS PAGE				PAGE 8
		QTY	PART#	QTY	PART#	
		4	LONG FLASHING			
		1	SHORT FLASHING			
		17	WINDOW 8096			
STEP 12,13	S SCALE	2	DOOR 3513			NOT TO SCALE

STEP 12

FASTEN 4 LONG FLASHINGS WITH POINTED END AT TOP TO COVER SEAMS. TRIM BOTTOM OF FLASHING FLUSH TO END OF ROOF. GLUE SHORT FLASHING TO COVER PEAK. FIG. 12

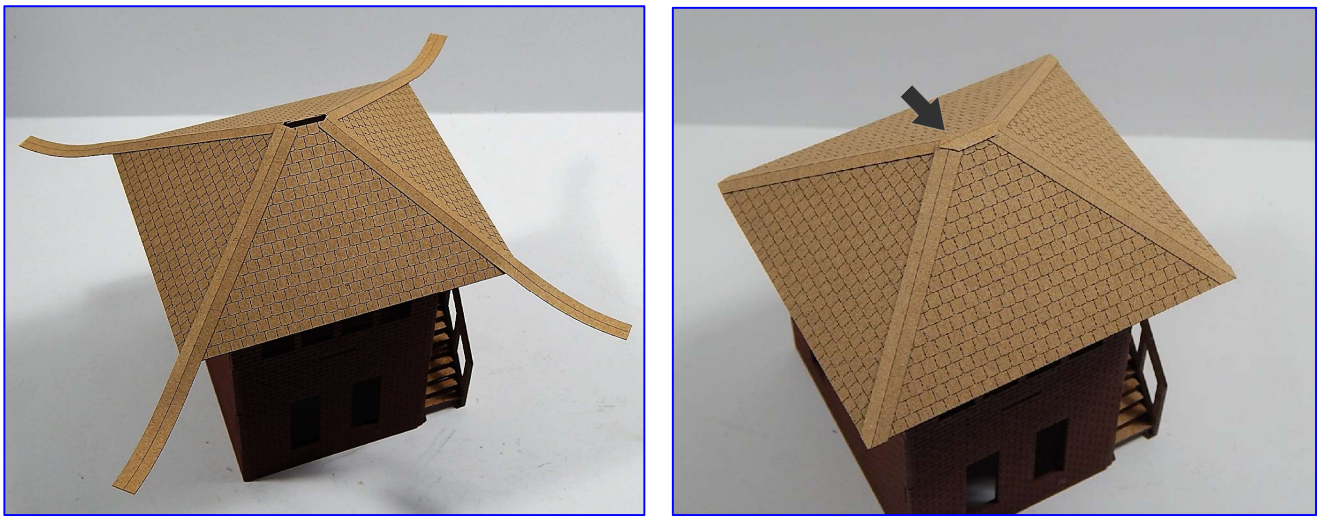


FIG. 12

STEP 13

GLUE PRE-PAINTED AND GLAZED WINDOWS AND DOORS. FIG. 13

FIG. 13

INTERLOCKING SIGNAL TOWER	KIT S-05 FEBRUARY 2019	PARTS NEEDED FOR THIS PAGE				PAGE 9
		QTY	PART#	QTY	PART#	
		1	FLOOR F			
		1	STEP O			
		1	CHIMNEY			
STEP 14	S SCALE					NOT TO SCALE

STEP 14

GLUE STRUCTURE CENTERED ONTO FLOOR F THEN GLUE STEP O CENTERED AND UNDER LOWER DOOR. FIG. 14

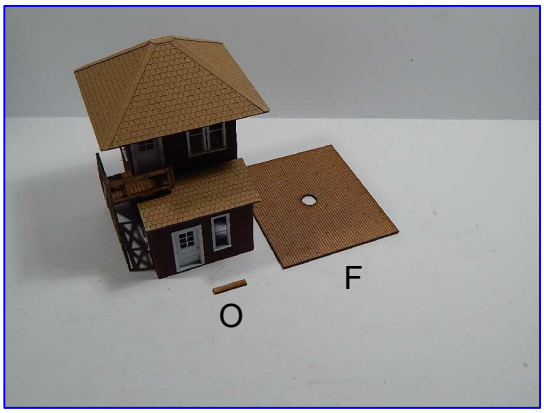


FIG. 14

STEP 15

CUT CHIMNEY AT SAME ANGLE AS ROOF WHERE ITS TO BE MOUNTED. SAND, PAINT AND GLUE IN PLACE. SEE SUGGESTED LOCATION FIG. 15

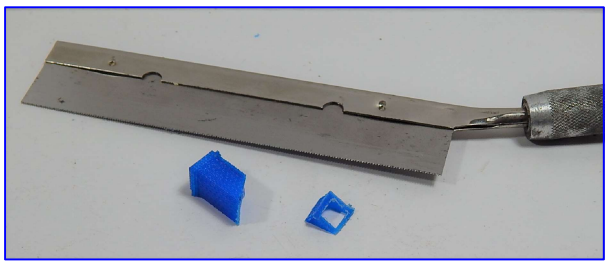


FIG. 15

STEP 16

USING A 1/8" DIAMETER TUBE OR DOWEL BEND WIRE AS SHOWN THEN WITH PLIERS BEND 90 DEGREE ANGLE. GLUE LAMP SHADE IN PLACE AND PAINT. DRILL 1/64" HOLE APPROX. 1/8" ABOVE AND CENTER OF BOTH DOORS. FIG 16

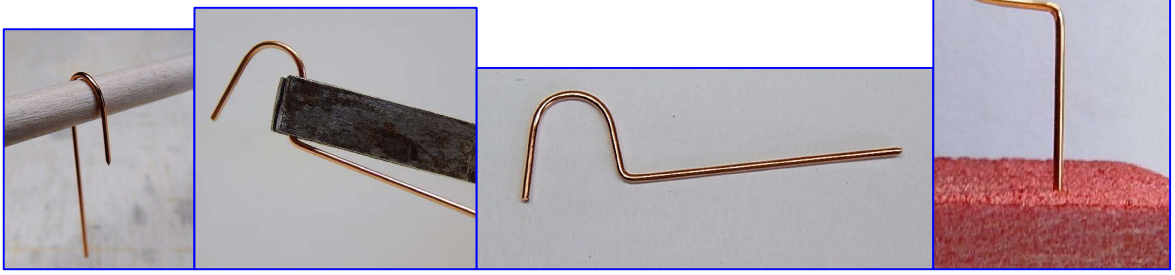


FIG. 16