

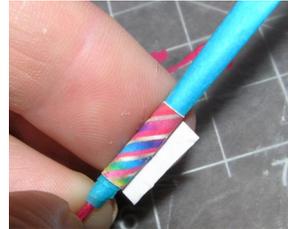
# book3: Fireworks for a Stand Assembly Instructions (1:12 scale)



## Required tools and supplies:

- X-acto knife and fresh blade and/or scissors.
- A thin metal straightedge ruler can be used to make fold lines by pressing against edge of the ruler.
- Tweezers are good for holding and pressing glue bonds.
- A cotton swab is also a useful tool for pressing glue bonds.
- Use a good cutting mat. Cardboard used as a substitute cutting mat will ruin your blade and your project will have rough edges.
- The best glue to use is a fast-grab, quick-dry, white craft glue that dries clear. Regular craft glue is too soupy to be of help here.
- An acid-free glue stick comes in handy, but only use when specified.
- A small piece of aluminum foil makes a good disposable glue pot.
- A slender, flat artist's paintbrush is a good tool to use to apply glue. Wash the brush in clear water when not in use. Some prefer to use a toothpick, but a brush will give you much more control.
- Optional: Magenta craft paint for fancy sparklers
- Optional: Magenta and turquoise tissue paper for fancy sparklers. Or you can use other tissue you may have on hand.
- BBQ skewers for bottle rockets and fancy sparklers
- Natural cotton string (packing section of the dept. store)
- Thin craft wire for sparkler handles and optional gray craft paint and fine clear glitter.

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## Fancy Sparklers

1. Cut BBQ skewers to size (see pattern on kit). Then paint the sticks with magenta craft paint.
2. Use the patterns to cut right sized tissue. You may cut splits before rolling the tissue onto the BBQ skewer or after. I prefer before rolling the tissue. These photos show the slices made after. Place a length of glue along the skewer to about the half-way point of the tissue. You want the tassel to be above the skewer's end. Tightly roll the complete length of tissue and then glue end securely.
3. Roll the next color. It does not matter whether the magenta tissue is first or the turquoise. Mix it up.
4. When you are done with the tassel. Place a line of glue to the bottom half of the tassel. Press the end/edge of the fancy paper to that line of glue. You may want to let the glue dry. Then roll the fancy paper tightly and glue the ending edge securely. Hold firmly until the glue is dry.
5. If you have not sliced the tassel yet, now is the time. Take scissors and clip down the tissue tube in evenly spaced clips. This produces the long tissue fringe at the top of the fancy sparkler.
6. If you think your tissue is too long at the top, clip the excess tissue roll off the end of the fancy sparkler as shown. Refer to the photo for visual guidance.
7. Play with the ends in order to give the fringe some volume.

## Fountains

Note: with most wicks in the fireworks, glue in place before making any of the fireworks and allow to dry. For the smaller scales you might want to use just 1 or 2 ply of the cotton string.

1. Roll the cones before making a final fit. this helps loosen up the paper in the form you will want.



Then form a perfect cone of one of the fountains. If you are comfortable, place a line of glue along the edge of cone tab and glue in place.

3. Repeat steps for all the fountains.



### Boxed Small Cone Fountains

1. Cones are created similar to the fountains above. Wicks are unneeded if you plan to display in the boxes.
2. To assemble the boxes, fold at all the logical lines.
3. Glue tabs to interior of the box at each corner. Use tweezers to press bond.
4. Fold down box lining found at top edge of each box side. Glue in place and press bond with tweezers.



### Firecrackers and Box

1. Roll all the firecrackers as tightly as possible. The easiest way to accomplish this is to crease about 1/16" along short end. The crease facilitates the rolling action of holding the end between the index finger and thumb.
2. Spin the roll against the length of your thumb. Glue the blank surface to the firecracker and press firmly to hold the roll.
3. Once all firecrackers have been rolled and glued, separate 1 ply of natural cotton string. Make sure you use a long enough length of string so you are ensured of enough string to finish. Place a dot of glue to the center of one of the firecrackers and place the midpoint of the string to the dot of glue.
4. Adding firecrackers to the line will be a little like weaving. Turn the string and center firecracker over (after glue has dried). Glue a firecracker to the string to one side of the first firecracker. Alternate firecrackers over and under the string. Use a pair of tweezers to facilitate positioning firecrackers.



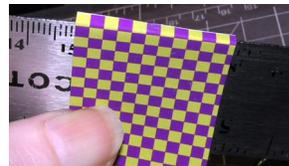
firecrackers over with each addition--actually helps you get the firecrackers tightly positioned. You can see by these photos the over-under-over pattern being created.

6. When the glue is completely dried, take the end of the twine and wind it over-under-over to the opposite side of the twine already in place. Tie the end when you have completed the line and snip the loose ends.
7. Cut out box and crease at logical fold lines.
8. There is a small tab at each corner of the box. Paint glue to the red side of each tab and glue to the respective side's interior. Use the tweezers to make a good and straight bond at each corner.
9. Fold down box lining found at top edge of each box side. Glue in place and press bond with tweezers.



### Mini Roman Candles and Large Roman Candles

1. Cut out all pieces. Crimp about 1/16" of the end of each candle. This will help you to roll the candle.
2. Practice roll the entire piece.
3. Unroll, and place a piece of cut 1-ply string into the crimped fold. Glue it into place. This will be the wick.
4. Roll the candle as tight as possible. Paint a line of glue to the blank surface of the roll's end. Press tightly against the roll and hold until you are sure that it will not unwind.
5. Trim the end of the wick, if it is sticking out the bottom of the candle. Repeat these steps for all the other Roman candles.
6. Cut the red discs for the small rockets' bases. Glue to the bottom of the candle.



### Small Rockets

1. Cut out all pieces.

2. Roll the nose cone to give it curve. Now create a cone shape. Once you are comfortable with the shape, paint some glue in the designated area. Use tweezers to help you squeeze a good bond. Allow the glue to dry

3. Crimp the end of one of the long striped pieces at about 1/16" inch from the end. This will help you to roll the piece into a tight roll.

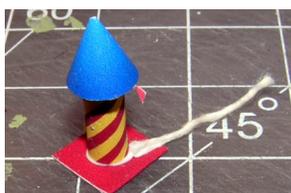
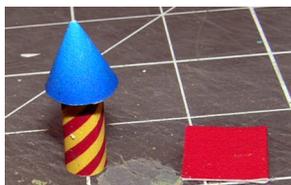
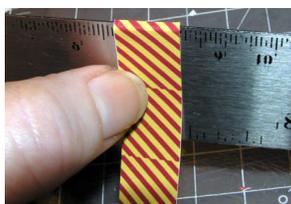
4. Take the cone and place it over the roll. Check to see if it is a good width for the cone. If it needs to be bigger, release the roll's tightness a little.

5. Once you have the right size for the rocket body, paint a little glue along the blank inside surface of the end piece. Finish the roll and press to create a bond with the glue. Hold until you are sure the bond will hold.

6. Now you can slather glue to the top of the roll even down the sides a tiny bit. Press the nose cone onto the rocket body roll. Let it dry.

7. Take the red rectangle, fold it in half and glue blank sides together. This creates the base for the small rockets.

8. Glue the rocket to it's red base. Take a piece of the cotton string (you may want to strip down to a couple ply for the smaller scales) and glue it to the base of the rocket. Make it look like it's coming from the rocket.



### Large Bottle Rockets

1. There are many similarities in assembly between the small and large rockets. Cut string twice the height of the rocket body for wicks. Use 1 or 2 ply string for the smaller scales.

2. Take a round toothpick for the small scale and BBQ skewer for the larger scales and cut to an appropriate length.

3. Glue the wick to the stick at it's top. Set piece aside.

4. Create the nose cones as you have previously.

5. Roll the rocket body around the stick and wick. If the body is too slender, loosen the edge some until the body is the right width for the nose cone.

6. Glue long edge of roll and hold until secure.

### Basic Box Construction:

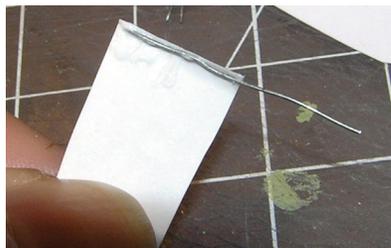
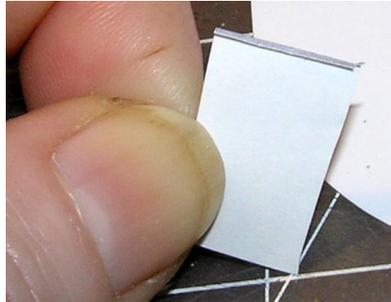
1. There is very little to creating the box type of firework. Fold at all logical lines.

2. Glue the side tab to the interior of the box.

3. Glue shut the top and base of the box, unless you are displaying the sparklers in a sparkler box.



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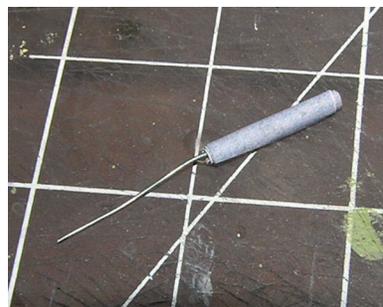
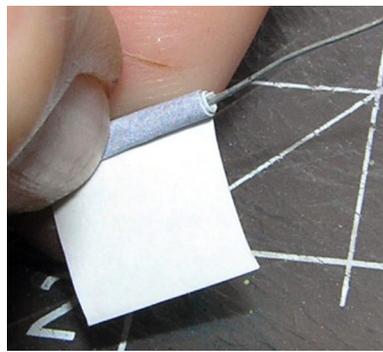


### Sparklers:

1. If you want to express the quintessential in miniature, then sparklers is the pinnacle. Use the black pattern in your kit and cut six lengths of wire for sparkler handles.

2. Cut out the six gray sparkler heads. Use a metal straight-edge and fold about 1/16th inch along the end of the wider width of a sparkler head at the dotted line. Repeat these steps for all the sparklers. NOTE: 1:3 scale does not have the gray papers. It is easy to make these on your own, or just build up paint on the wire end.

3. Take one of the cut wire pieces and glue to the inside of your folded end. Allow the glue to dry completely before moving to step 4.



4. Wrap the sparkler head tightly around wire to the end. Repeat as necessary to get it good and tight. If it is bulky, cut a portion off the end of the roll.

5. Paint glue to the blank inner surface of the paper end and press tightly.

6. Paint sparkler head with gray paint or even the white craft glue. Then you can saturate the head in fine grain glitter.



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