





WHAT YOU'LL NEED: Scissors, Elmer's glue or a glue stick, a small utility knife, and a ruler or other straight-edge. A black marker is optional. (This project should be printed on card stock.)

FOLDING TIP: I recommend 'scoring' the fold lines before folding. You can use an old ink pen, a knitting needle, the end of a paper clip, or any metal object that will make a crease on the fold lines without tearing the paper. Scoring will help you fold much more quickly and precisely.

BUILDING TIP: For an extra fancy model, you can also darken the edges of each piece (before assembling) by laying the tip of a black marker sideways on the paper's edge, or by laying the piece on another sheet of paper and then tracing around the piece with the marker.

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ELECTROSPHERIC RAY GUN – Assembly Instructions Page 3.

ASSEMBLY: Begin by cutting out the Grip on Parts Page 1. Fold the four small upper blue tabs UPWARD and then fold DOWNWARD along all of the lines indicated (in green) in Figure 1.

Glue the green triangular tab to the unprinted side of the adjacent rectangular tab and then glue the gray tab with the green dot to the unprinted side of the adjacent side panel, as shown in Figure 2.

Now fold the two small lower panels upward to get them out of your way, and glue the large blue tab and the 'fabric' tab to the matching side panels. (You can place the ruler inside the grip so there's something to press against when gluing.) The grip should now resemble Figure 3.

Fold the lower rectangular panel down over the gap and glue the triangular panel to the lower corner of the side panel, as shown in Figure 4.

Next, cut out BODY A on Parts Page 2. Separate the two small tabs from the adjacent panels by cutting along one side as shown in Figure 5. There are two white rectangles with a red X. Remove both of these rectangles. Fold all six gray tabs DOWNWARD and then fold DOWNWARD between all twelve panels.

Glue the two small tabs to the unprinted side of the adjacent panels, and then glue the four remaining gray tabs to the unprinted side of the adjacent panels. The piece should now resemble 6.

Insert the GRIP through the bottom and top holes of BODY A, as shown in Figure 7. Glue the four blue tabs to the top panel of BODY A, as shown in Figure 8.

Cut out BODY B on Parts Page 2. Separate the two gray tabs from the adjoining panels in the same manner as we did before. Fold the two gray tabs DOWNWARD and then fold DOWNWARD between all twelve panels. Glue the two gray tabs to the unprinted side of the adjoining panels.

Glue the three lower panels on BODY B directly over the lower panels on BODY A. Then glue the three top panels on BODY B directly over the top panels on BODY A. The ray gun should now resemble Figure 9.

Now we'll add a trigger. Cut out TRIGGER A on Parts Page 1. Fold the two gray tabs DOWNWARD. Fold the tab with the screw UPWARD and then fold DOWNWARD along the three edges shown in Figure 10.

Glue the gray triangular tab to the unprinted side of the adjacent panel. Glue the remaining gray tab to the unprinted side of the adjacent panel. The trigger should now resemble Figure 11.

Place TRIGGER A in position on the grip as shown in Figure 12. Glue the trigger's 'fabric' panels to both sides of the grip and then glue the tab with the screw to the bottom of the body.

To strengthen the trigger, cut out TRIGGER B on Parts Page 1. Fold along the two edges shown in Figure 13 and then glue TRIGGER B directly over the matching panels on TRIGGER A.

Next, cut out the REAR CAP on Parts Page 3. For the two small gray tabs, cut along one side as we did previously. Fold all six gray tabs DOWNWARD and then fold DOWNWARD between all seven panels.

Glue the two small gray tabs to the unprinted side of the adjacent panels and then glue the four gray tabs with red dots to the unprinted side of the adjacent panels.

Place glue inside all six sides of the REAR CAP and glue it directly over the rear panels on the body, as shown in Figure 14.

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Now we'll add tabs to the body so a barrel can be attached. There are six BARREL BRACES on Parts Page 3. Cut these braces out one at a time, folding each rectangular panel UPWARD and then gluing each larger panel directly over the matching color-coded panel on the body. When all six braces are in place, they should resemble Figure 15.

Cut out the BARREL on Parts Page 3. Fold the blank gray tab DOWNWARD and then fold DOWNWARD between all six panels.

Glue the blank gray tab to the unprinted side of the opposite panel, forming a six-sided barrel as shown in Figure 16.

Place the BARREL in position on the end of the body. The yellow dot should be on top and the orange dot should be on the bottom. Glue the tabs to the barrel as shown in Figure 17.

Next, cut out FLANGE A on Parts Page 3. For the two small gray tabs, cut along one side as we did previously. Fold all six gray tabs DOWNWARD and then fold DOWNWARD between all seven panels.

Glue the two small gray tabs to the unprinted side of the adjacent panels and then glue the four larger gray tabs to the unprinted side of the adjacent panels. The flange should now resemble Figure 18.

Now cut out FLANGE B on Parts Page 3. Fold UPWARD between all seven panels and then glue FLANGE B to the inside of FLANGE A. Set the flange aside for now, we'll add it to the barrel after the rings are finished.

For each of the three discs on Parts Page 4, begin by cutting around the black outer rectangles. This doesn't need to be very precise. Then fold VERY precisely along the red center line. Glue the two sides together and then cut out the disc. Trim as needed and then use the utility knife to remove the white inner area. Repeat this process for all three discs.

Cut out the four DISC BRACES on Parts Page 4. Fold all of the tabs with screws UPWARD.

Slide the largest disc onto the barrel (with the screws toward the top and bottom) and push it to the back. Place a DISC BRACE on top of the barrel as shown in Figure 19. Glue the brace tab directly over the screw on the disc, and glue the brace's center panel to the barrel. Repeat this process with another DISC BRACE on the bottom of the barrel.

Now slide the middle-sized disc over the barrel, push it back and glue the brace tabs to the back of the disc.

Add the two remaining disc braces in the same manner as before. Slide the smallest disc onto the barrel, push it back and glue the brace tabs to the back of the disc. The barrel should now resemble Figure 20.

The flange needs tabs so we can glue it to the barrel. There are six FLANGE BRACES on Parts Page 4. Cut these braces out one at a time, folding each rectangular panel UPWARD and then gluing each larger panel directly over the matching color-coded panel on the flange. When all six braces are in place, the flange should resemble Figure 21.

Place the flange against the end of the barrel, being sure the two wider tabs are on the top and bottom of the barrel. Glue the flange tabs to the barrel as shown in Figure 22.

We'll finish the ray gun by adding a fin. To cut out FIN A on Parts Page 5, cut around the outer black rectangle (this doesn't need to be precise) and then fold VERY precisely along the red center line. Cut out the piece (without separating the two sides) and trim if needed.

Unfold FIN A, lay it flat and fold all four outer tabs UPWARD. Now glue the two sides (but not the tabs) together. The fin should resemble Figure 23.

Position the fin's tabs over the matching panels on the ray gun body and glue the fin in place, as shown in Figure 24.

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Cut out FIN B on Parts Page 5. Fold the four outer tabs UPWARD, fold the two black panels DOWNWARD and then fold DOWNWARD along the black line. Glue the black panels to the unprinted side of the center panels (but do NOT glue the tabs together. The piece should now resemble Figure 25.

Position the FIN B tabs directly over the matching areas on FIN A. Glue the tabs in place, as shown in Figures 26 and 27.

Congratulations! Your Electrospheric Ray Gun is now complete. However, this is far too dangerous a weapon to just leave lying around someplace, so let's make a quick easy base to display it properly...

Cut out BASE A on Parts Page 6. Fold DOWNWARD between all five panels. Glue the blank gray panel to the unprinted side of the opposite panel, as shown in Figure 28.

Cut out BASE C on Parts Page 5. Fold the three black panels DOWNWARD. Fold the two smaller triangular panels UPWARD and then fold the two larger triangular panels DOWNWARD. Glue the black panels to the unprinted side of the panels they're connected to. The piece should now resemble Figure 29.

Cut out BASE B on Parts Page 5. Fold the light gray tab UPWARD. Position BASE C around the dark rectangle on BASE B, as shown in Figure 30, and glue in place.

Position BASE A over the light gray tab on BASE B, as shown in Figure 31. Glue the light gray tab to the inside of BASE A.

Place the ray gun onto the base as shown in Figure 32. And that's everything! Your Electrospheric Ray Gun now has an attractive stand to display the weapon proudly when not in use.