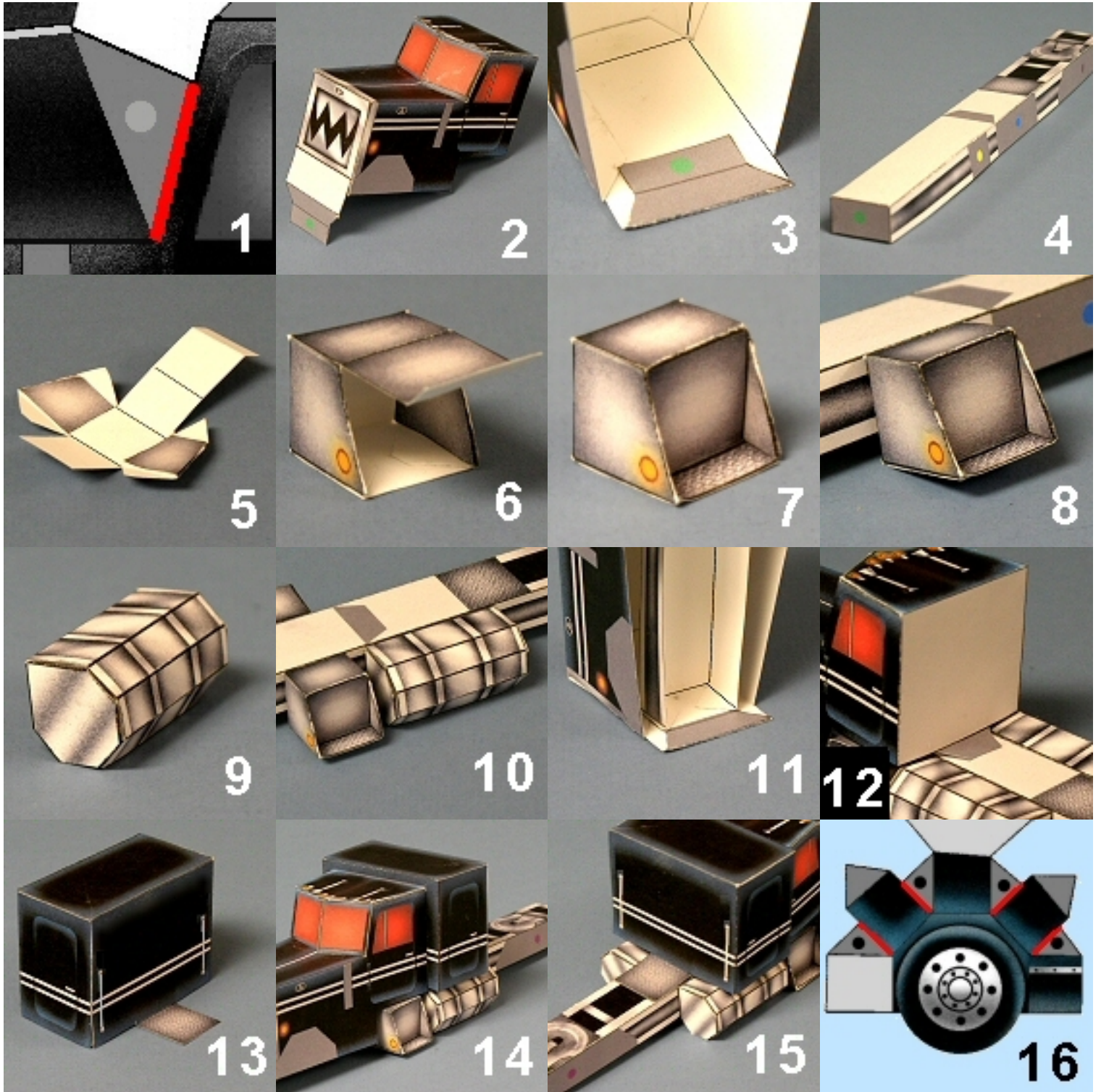
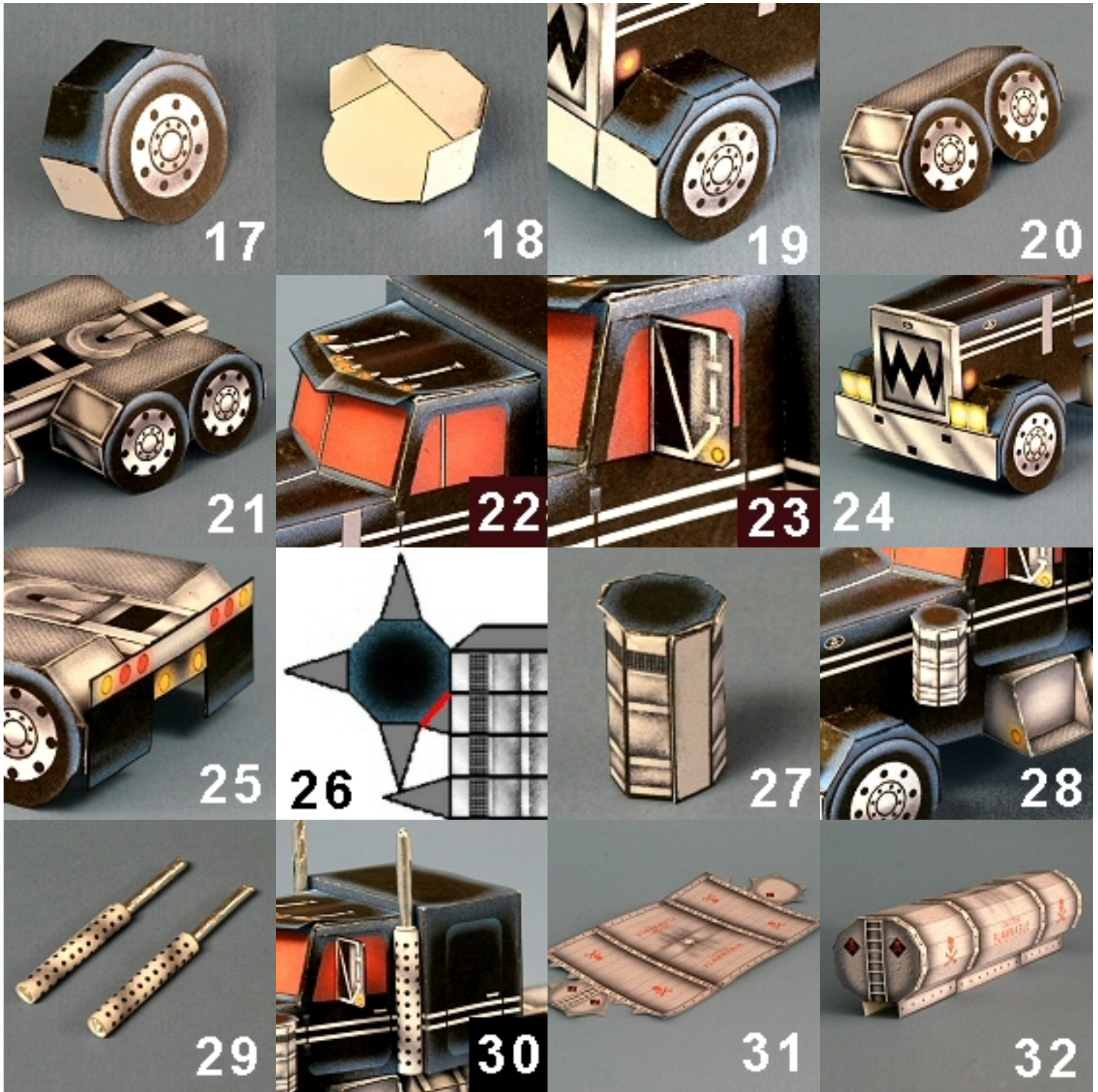


# THE PHANTOM SEMI – Assembly Instructions Page 1.



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**THE PHANTOM SEMI – Assembly Instructions Page 2.**



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**WHAT YOU'LL NEED:** Scissors, Elmer's glue (or a glue stick), a ruler or other straight-edge, a bamboo skewer (kabob stick), a toothpick, a needle, a piece of aluminum foil at least 4 X8 inches in size, and something to score with (see below). A black marker is optional (for trimming and darkening edges).

**FOLDING TIP:** I strongly recommend 'scoring' the fold lines before folding. This means making a small crease or groove without tearing the paper. You can use an old ink pen, a knitting needle, the end of a paper clip, or any similar metal object (I use a pointy little tool from a manicure kit). Scoring will help you fold much more quickly and precisely, and makes small tabs and panels easier to deal with.

(Continued on next page...)

## THE PHANTOM SEMI – Assembly Instructions Page 4.

**TRUCK ASSEMBLY:** Begin by cutting out the CAB on Parts Page 1. There are three tabs with yellow dots. Fold these three tabs UPWARD. (When a tab is connected on two sides, always cut to separate on the shorter connected side, as shown in Figure 1.) Fold the nine remaining gray tabs DOWNWARD. Don't fold between the tab with a green dot and the tab it connects to.

Now fold the roof DOWNWARD. Fold the hood DOWNWARD (don't fold between the two halves of the hood), and fold the front windows DOWNWARD. Then fold DOWNWARD between the two front windows. Fold the front grill DOWNWARD and then fold both side panels DOWNWARD.

Begin building the cab by gluing the tab with a black dot to the unprinted side of the adjacent panel. Work your way around the top of the windows, gluing each tab as you come to it.

Then glue the tabs on the side of the front window, under the front windows, along the side of the hood, and around the front grill. The CAB should now resemble Figure 2.

Glue the remaining two gray tabs to the unprinted side of the grill as shown in Figure 3. Set the CAB aside for now.

Cut out the FRAME on Parts Page 1. Fold all six gray tabs DOWNWARD and then fold the two side panels and the two end panels DOWNWARD. Glue the triangular tabs to the unprinted side of the adjacent end panels, forming a shallow box as shown in Figure 4. Remember that the end panel with a green dot is the front of the frame.

Cut out the LEFT STEP on Parts Page 2. Fold the small end panel with a rougher texture UPWARD. Fold the five tabs DOWNWARD. Fold DOWNWARD between all six remaining panels. Glue the two outer side panels to the unprinted side of the panels they connect to, as shown in Figure 5.

Glue the triangular tabs to the unprinted side of their adjacent panels, forming a box as shown in Figure 6.

Position the textured panel inside the box, as shown in Figure 7, and glue it level with the outer edge of the box.

Glue the gray area on the back of the finished step to the matching area on the LEFT side of the FRAME, being sure the top of both pieces are LEVEL as shown in Figure 8. (The bottom of the step hangs lower than the frame.)

Now cut out the RIGHT STEP on Parts Page 2. Assemble and connect to the RIGHT side of the frame in the same manner as the left step.

Cut out the LEFT TANK on Parts Page 2. Fold all eight triangular panels DOWNWARD. Fold the two end panels DOWNWARD and then fold the remaining four metal panels DOWNWARD. For each end of the tank, begin with the largest tab and work your way around the edge, gluing each tab as you come to it. Repeat this process for the opposite end of the tank. The tank should now resemble Figure 9.

Glue the tank panel with a blue dot to the matching panel on the left side of the frame, as shown in Figure 10. The top of the tank should be LEVEL with the top of the frame.

Now cut out the RIGHT TANK on Parts Page 2. Assemble and connect to the RIGHT side of the frame in the same manner as the left tank.

(Continued on next page...)

## THE PHANTOM SEMI – Assembly Instructions Page 5.

Glue the front panel of the FRAME to the matching panel inside the CAB as shown in Figure 11. Then glue the gray tab on the back of the CAB to the matching area on the frame, as shown in Figure 12.

Cut out the SLEEPER on Parts Page 2. Fold the square rough metal panel UPWARD, fold the four gray tabs DOWNWARD, fold the top panel DOWNWARD, and then fold DOWNWARD between the four side panels. Glue the gray tabs (starting with the top panel) to the unprinted side of the adjacent panels to form a box, as shown in Figure 13.

Glue the large gray area on the sleeper to the back of the CAB, as shown in Figure 14. Then glue the sleeper's square metal panel to the matching area on the frame, as shown in Figure 15.

Next, cut out the LEFT FRONT WHEEL on Parts Page 3. Separate the tabs with black dots as shown in Figure 16. Fold all eight gray tabs DOWNWARD and then fold the six remaining panels DOWNWARD.

Glue the tabs with black dots to the unprinted side of the adjacent panels. Then do the same for the two larger gray tabs and then the smaller two gray tabs. The finished wheel should resemble Figures 17 and 18.

Use the black marker to darken the unprinted side of the wheels. Then glue the large blank panel to the matching panel on the left side of the CAB, as shown in Figure 19.

Cut out the RIGHT FRONT WHEEL on Parts Page 3. Fold and assemble in the same manner as the left front wheel, and attach to the right side of the CAB.

Now cut out the LEFT REAR WHEELS on Parts Page 3. Separate the two tabs with black dots (again cutting along the shorter connected edge). Fold the eight tabs DOWNWARD and then fold the remaining six panels DOWNWARD.

We'll assemble the rear wheels in the same manner as the front wheels. Glue the tabs to the unprinted sides of their adjoining panels, forming a piece like the one shown in Figure 20. Use the black marker to darken the unprinted side of the wheels. Then glue the panel with a purple dot to the matching panel on the side of the FRAME, as shown in Figure 21. (The top of the wheel piece should be level with the top of the frame.)

Cut out the RIGHT REAR WHEELS on Parts Page 3. Assemble in the same manner as the left rear wheels, and glue to the matching panel on the right side of the FRAME.

(Note: It's OK if the wheels sag a little, the bumpers we'll be adding later will hold them in the proper position.)

Cut out the VISOR on Parts Page 3. You can use a black marker to darken the underside of the visor where it overhangs the top of the cab. Glue the VISOR directly over the matching panel on the top of the CAB. After gluing in place, you can gently press the overhanging visor to bend it downward a little, as shown in Figure 22.

Cut out the LEFT MIRROR on Parts Page 3. Fold DOWNWARD between the two sides of the mirror, and fold UPWARD along the side of the red window. Glue the panel with the red window directly over the matching area on the left side of the CAB, as shown in Figure 23.

Cut out the RIGHT MIRROR on Parts Page 3. Assemble in the same manner as the left mirror, and attach to the right side of the CAB.

Continued on next page...)

## THE PHANTOM SEMI – Assembly Instructions Page 6.

Next, cut out the FRONT BUMPER on Parts Page 4. Fold the two metal panels above the headlights DOWNWARD and then fold DOWNWARD between the bumper's front (with shiny metal) and back (with three gray panels).

Glue the front and back of the bumper together, and glue the two metal panels to the back of the headlights. Trim as needed. Then glue the gray panels on the back of the bumper to the matching panels on the front of the cab and fenders, as shown in Figure 24.

Cut out the REAR BUMPER on Parts Page 4. Fold DOWNWARD along the center line, glue the two sides together and trim as needed. Then glue the three gray areas to the rear wheels and back of the frame, as shown in Figure 25.

Now cut out the LEFT BREATHER on Parts Page 4. Separate the smallest tab where shown in Figure 26. Then fold all eight dark gray tabs DOWNWARD, fold DOWNWARD between all eight side panels and fold the top panel DOWNWARD.

Glue the dark four-sided tab to the unprinted side of the opposite light gray panel, forming a cylinder. Then put glue on the seven triangular tabs and carefully interlace them as you push the top panel down over the cylinder, as shown in Figure 27. Hold in place a moment for the glue to take hold.

Place the light gray panel on the breather directly over the matching panel on the cab, as shown in Figure 28, and glue in place. (The breather should be level with the top of the hood.)

Cut out the RIGHT BREATHER on Parts Page 4. Assemble in the same manner as the left breather, and glue to the right side of the cab.

Now all the semi needs is a set of exhaust stacks. Cut the bamboo skewer into two pieces, each 2 and a half inches long. You can paint the pieces gray or silver if you want, or you can wrap them in aluminum foil.

To use foil, cut a piece of foil about 4 inches square for each stack. Roll the piece of skewer up in the foil, wrapping it very tightly. Twist both ends tightly closed (similar to wrapping a piece of candy). Flatten the ends with your fingernail until you find the ends of the skewer and cut off the extra foil. If wrapped tightly, the foil should stay put.

Next, cut out the two HEAT SHIELDS on Parts Page 4. Curve each heat shield around a pencil or pen to curve the paper. For each stack, put some glue on the lower half of a skewer piece, line up the long edge of a heat shield with the bottom edge of the skewer piece, and wrap the heat shield tightly around the skewer. Glue down the last half inch or so of the heat shield. The stack should resemble Figure 29.

On each side of the cab: place a stack against the front of the sleeper, as shown in Figure 30, and glue the stack to both the cab and sleeper. When both stacks are connected, your semi is complete! But what fun is a truck without a trailer? Continue below to add a tanker trailer.

**TRAILER ASSEMBLY:** Cut out TANK A on Parts Page 5 and TANK B on Parts Page 6. Both end panels have two tabs (with black dots) that need to be separated where they meet the side panels. Glue the large light gray tab on TANK B to the unprinted side of TANK A, forming a piece like the one shown in Figure 31. (It's very important to line up these two pieces as precisely as possible when gluing them together.)

Continued on next page...)

## THE PHANTOM SEMI – Assembly Instructions Page 7.

Fold all twenty tabs DOWNWARD, fold the two end panels DOWNWARD, fold DOWNWARD between all eleven side panels, and then fold the two outermost metal side strips UPWARD. Beginning with the tabs with black dots, connect the end panels to the sides, gluing each tab as you get to it. The finished form should resemble Figure 32.

Now cut out TRAILER FRAME A on Parts Page 6 and TRAILER FRAME B on Parts Page 7. Glue the light gray tab on TRAILER FRAME A to the unprinted side of TRAILER FRAME B, forming a single frame piece as shown in Figure 33. Again, it's important to line up the edges as precisely as possible.

Fold the four tabs DOWNWARD, fold the two end panels DOWNWARD, and then fold the two metal side panels (with bolts) DOWNWARD. Glue the tabs to the unprinted side of the adjoining panels to form a long box, as shown in Figure 34.

Turn both the tank and the frame upside down. Place glue on the sides of the frame (with bolts) and then glue the frame between the two matching side strips (with bolts) on the tank, as shown in Figure 35.

The trailer will need a spacer to glue the wheels to. Cut out the SPACER on Parts Page 7. Fold the four tabs DOWNWARD, fold the green tab UPWARD, and then fold the four sides DOWNWARD. Glue the tabs to the unprinted side of the adjoining panels, forming a box as shown in Figure 36.

The front of the tank has 1 warning sign, the back has 2 signs and a ladder. With the tank still upside down, place the SPACER into the frame, with the green tab facing the back of the tank as shown in Figure 37. Glue the metal panels on the sides of the spacer to the inside of the frame.

Cut out the LEFT TRAILER WHEELS on Parts Page 7. Separate the two tabs with black dots (again cutting along the shorter connected edge). Fold the eight tabs DOWNWARD and then fold the remaining six panels DOWNWARD.

We'll assemble the trailer wheels in the same manner as the truck wheels. Glue the tabs to the unprinted sides of their adjoining panels, forming a piece like the one shown in Figure 20. Use the black marker to darken the unprinted side of the wheels. Then glue the blue panel to the matching panel on the left side of the SPACER, as shown in Figure 38.

Cut out the RIGHT TRAILER WHEELS on Parts Page 7. Assemble in the same manner as the left trailer wheels, and glue to the matching blue panel on the right side of the SPACER.

Next, cut out the TRAILER BUMPER on Parts Page 6. Fold DOWNWARD along the center line, glue the two halves together and trim as needed. Then glue the two rectangular gray areas to the blank panels on the back of the trailer wheels, as shown in Figure 39.

Now we'll make a hitch for the trailer to connect to the truck. Cut a toothpick so it's  $\frac{3}{4}$  of an inch long, with no point (see the hitch length guide on Parts Page 7). Cut out the HITCH BRACE on Parts Page 7. Fold the two green panels UPWARD and then fold DOWNWARD between the two blue panels. Place the toothpick piece between the two blue panels and glue the two blue panels together, as shown in Figure 40. (Use plenty of glue and press the sides together with your fingernails.)

Cut out the HITCH PLATE on Parts Page 7. Fold the two side panels (with bolts) DOWNWARD. Puncture the black dot in the center panel with a needle, and then enlarge the hole with a toothpick. Push the hitch (the toothpick piece and hitch brace) through the hole and glue the green tabs on the hitch brace to the unprinted side of the hitch plate, as shown in Figure 41.

Continued on next page...)

## THE PHANTOM SEMI – Assembly Instructions Page 8.

Turn the trailer upside down. Place the HITCH PLATE over the frame as shown in Figure 42. The green triangle should point toward the front of the trailer. Glue the HITCH PLATE side panels (with bolts) directly over the matching areas on the frame.

The trailer is now finished. To hitch the trailer to the truck, we'll need to puncture a hole in the center of the truck's 'Fifth Wheel' (shown in red in Figure 43). Puncture first with a needle, then widen with a toothpick, and then widen further with a bamboo skewer.

The trailer can now be connected to the truck. (If any of the edges catch when turning the truck, add a metal washer to the connection.)

To finish the model, we'll make trailer jacks for the trailer to rest upon when not in use. Cut out the TRAILER JACKS on Parts Page 7. Fold the gray tab DOWNWARD and then fold DOWNWARD between all four sides. Glue the gray tab to the unprinted side of the opposite panel, forming a box as shown in Figure 44. To use the jacks, place the trailer over the jacks with the jacks outside the frame as shown in Figure 45.

And that's everything! Your Phantom Semi is ready to hit the road.

