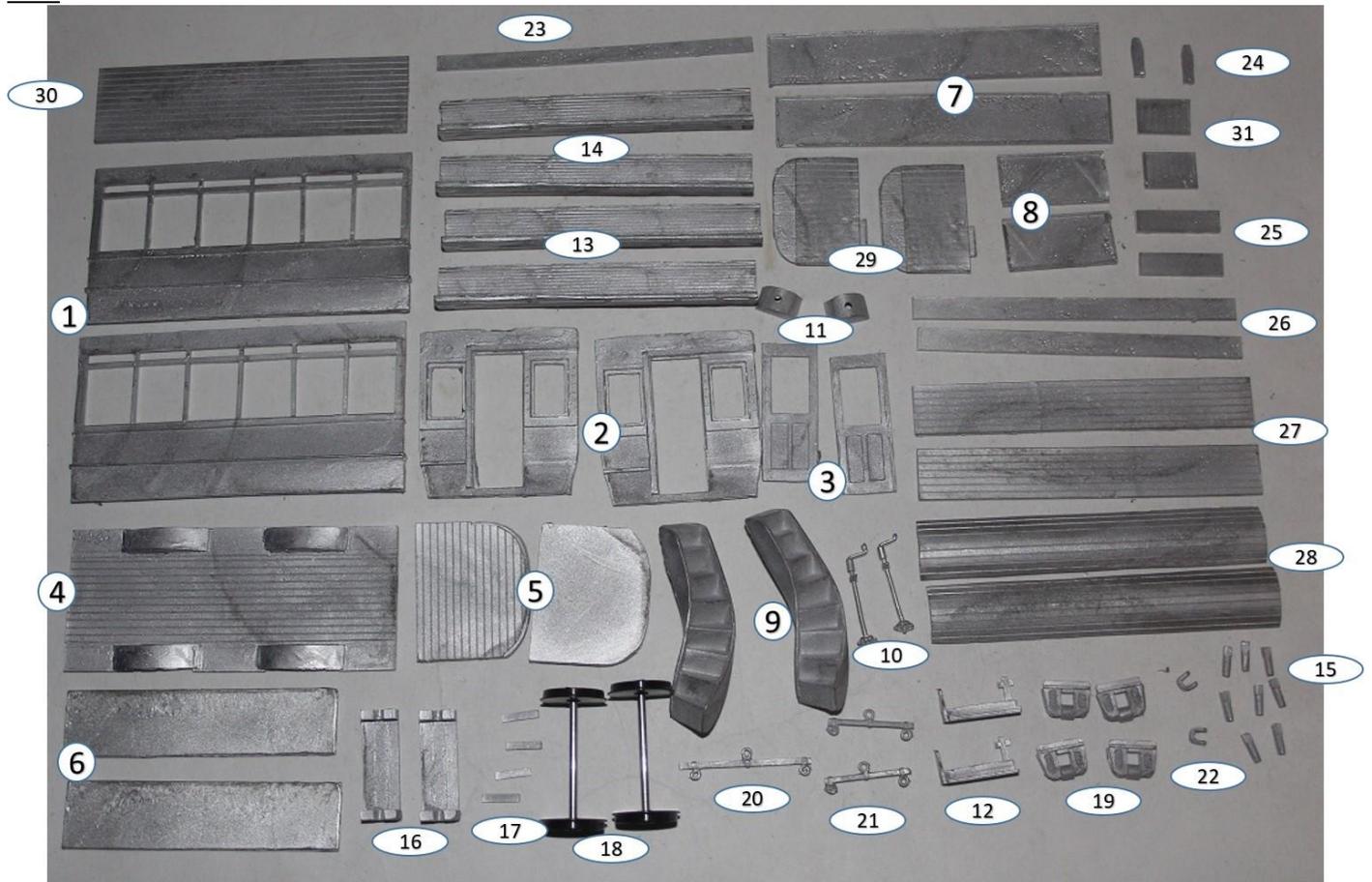


# KW Trams

## KW 109a Glasgow Horse Car.

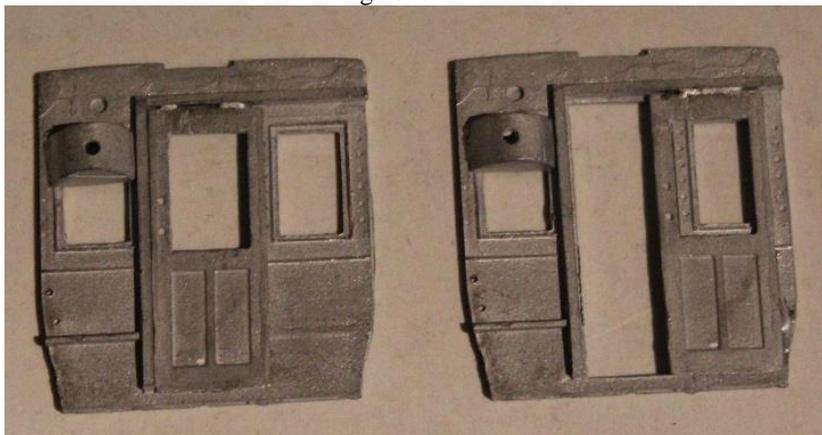
### Parts



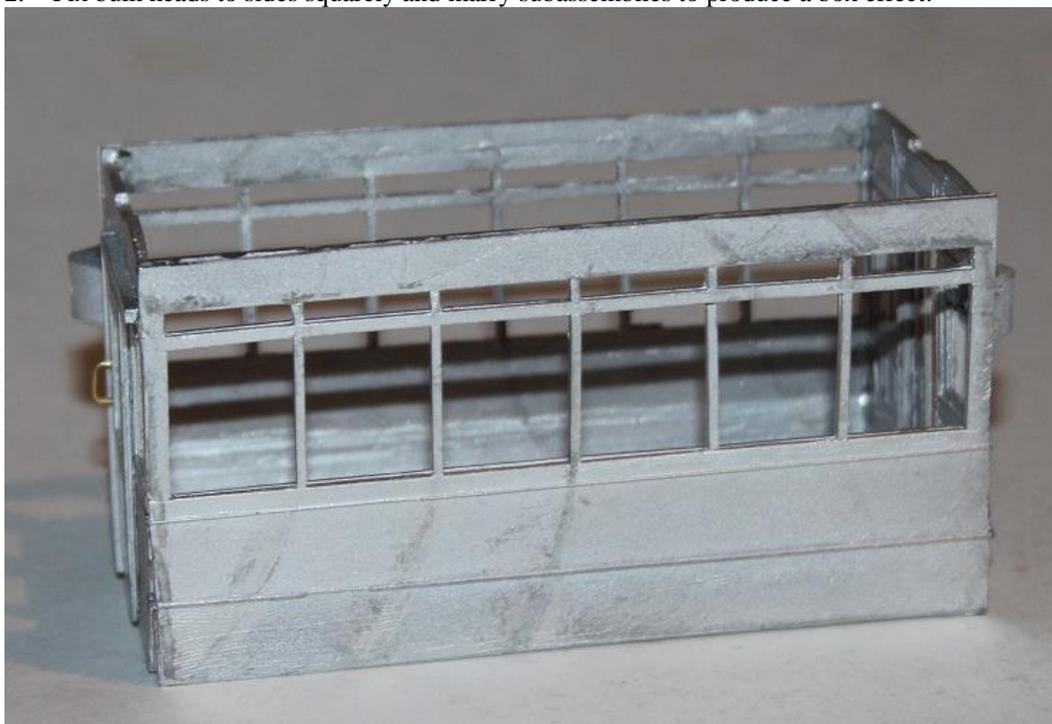
- |                           |    |
|---------------------------|----|
| 1. Lower side             | x2 |
| 2. Bulkhead               | x2 |
| 3. Bulkhead door          | x2 |
| 4. Floor                  | x1 |
| 5. Platform               | x2 |
| 6. Dash                   | x2 |
| 7. Open top upper sides   | x2 |
| 8. Open top upper ends    | x2 |
| 9. Stairs                 | x2 |
| 10. Handbrake             | x2 |
| 11. Bulkhead lamp         | x2 |
| 12. Step                  | x2 |
| 13. Lower deck seats      | x2 |
| 14. Upper deck seats      | x2 |
| 15. Seat supports         | x8 |
| 16. Axle supports         | x2 |
| 17. Axle retainers        | x4 |
| 18. Axles & wheels        | x2 |
| 19. Axle boxes            | x4 |
| 20. Double swingle        | x1 |
| 21. Single swingle        | x2 |
| 22. Front brackets        | x2 |
| 23. Upper seat top        | x1 |
| 24. Upper seat end filler | x2 |
| 25. Upper seat base end   | x2 |
| 26. Upper seat base side  | x2 |
| 27. Upper floor           | x2 |
| 28. Turtle back roof      | x2 |
| 29. Upper floor ends      | x2 |
| 30. Upper seat base top   | x1 |

Build Steps

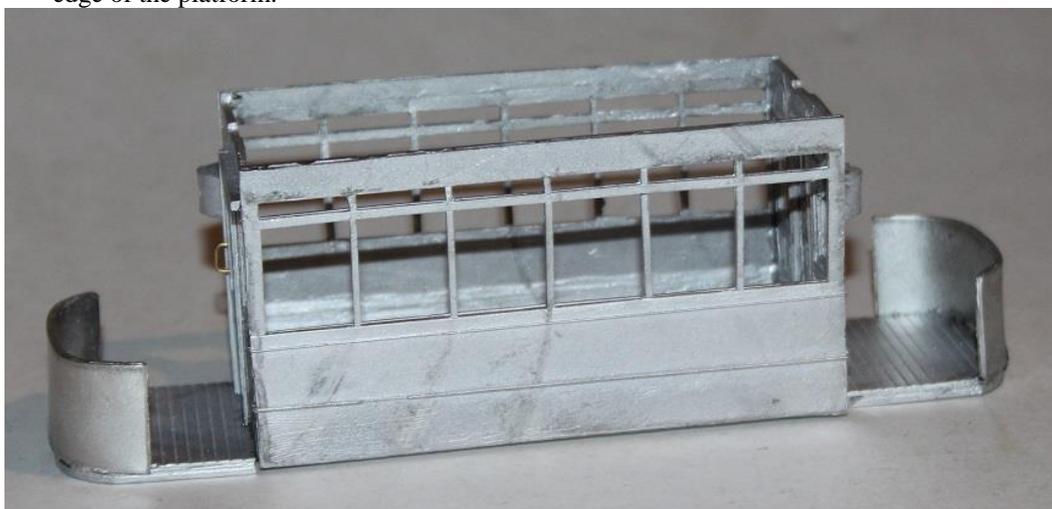
1. Fit the bulkhead doors and lights to the bulkheads.



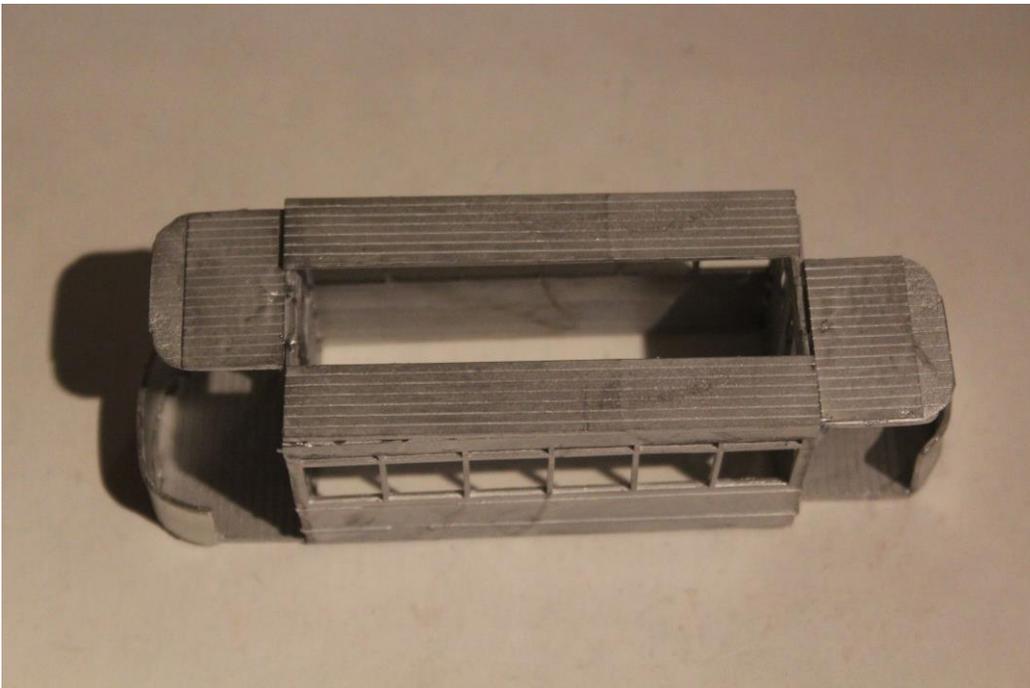
2. Fix bulk heads to sides squarely and marry subassemblies to produce a box effect.



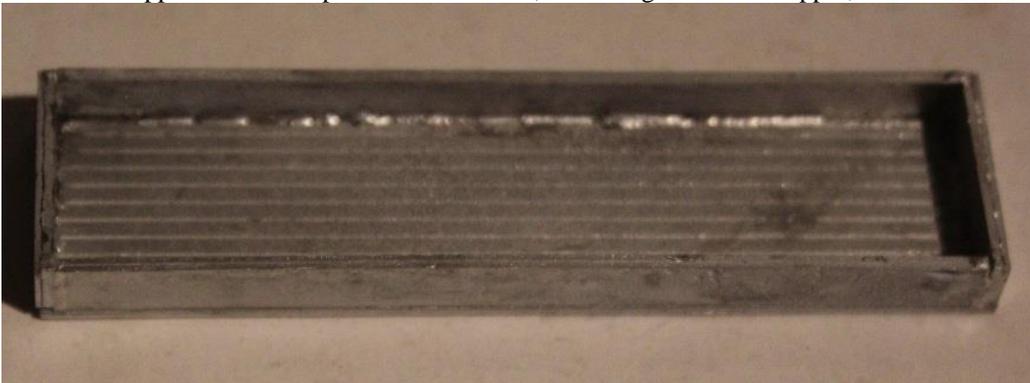
3. With model inverted, attach platforms to bottom edges of bulkheads; with the platform mounted to the left of the car and the outer edge in line with the outer edge of the bulkhead.
4. Gently bend the dash panels to fit the shape of the platform front, cut to length and fit to platform in the cut out in the front edge of the platform.



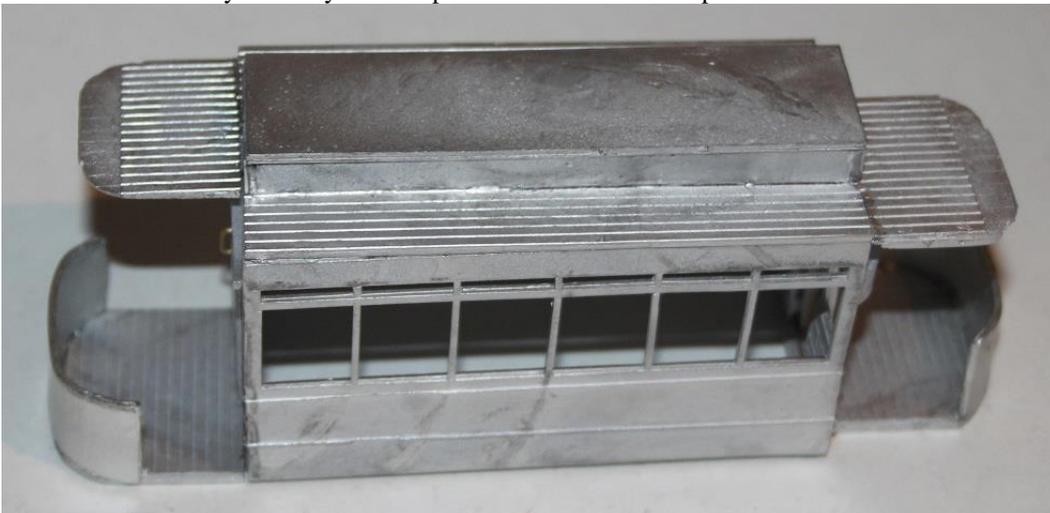
5. Fit the ceiling ends with the tabs into the notches in the tops of the bulkheads. Fit the upper deck floor sections at each side of the body, with the outer edge on top of the body sides.



6. Put the upper seat base top on the workbench, with the grooved side upper, and fix the base ends and sides to form a box.



7. Fix this assembly centrally to the top of the model with the open section downwards.



8. Fit the two upper deck seats back to back with their outer edges flush to the edges of the base.

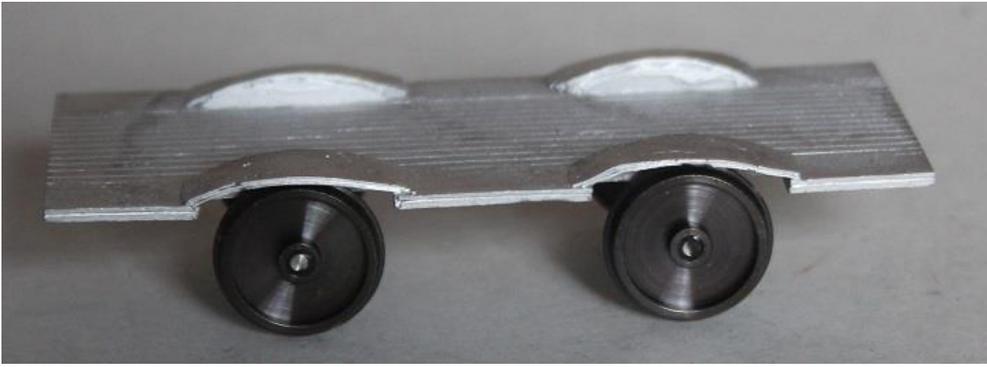
9. Fit the seat top strip to the tops of the two seats.

10. Fit the filler between the ends of the seats.

11. Put the axles in the axle supports and fix the axle retainers in place to keep them in place.



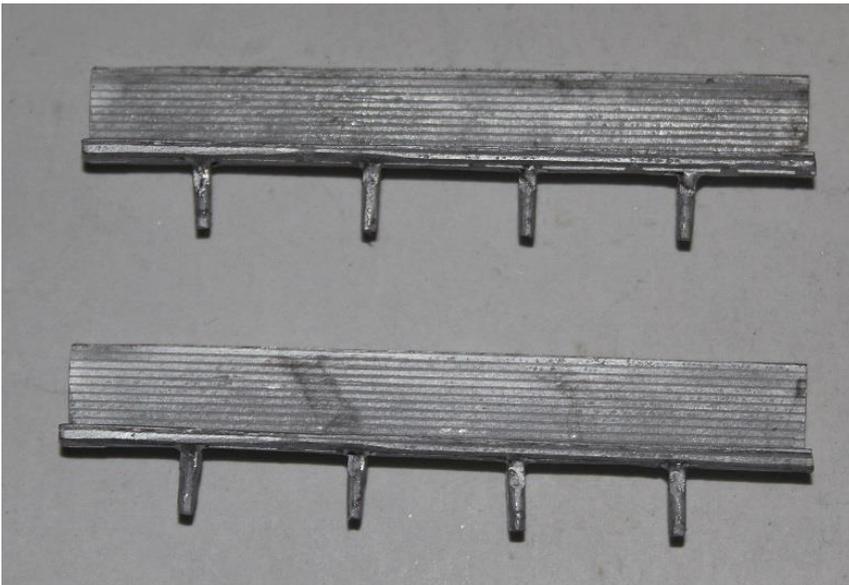
12. Fix the axle supports under the floor so that the wheels are in the centre of the wheel arches.



13. Turn model over and put the floor in place (do not fix it in place until you have completed the painting and glazing of the interior of the tram). Use the location of the wheels to fit the axle boxes in place. Fit the steps. Fit the brackets to the middle of the lower edge of the platform.



14. Fix the seat supports to the front edge of the lower deck seats. Fix the seats in place unless you want to paint them and the interior first.



15. Fit the stairs unless you wish to paint them first.



16. Make up handrails etc from wire (not included).

