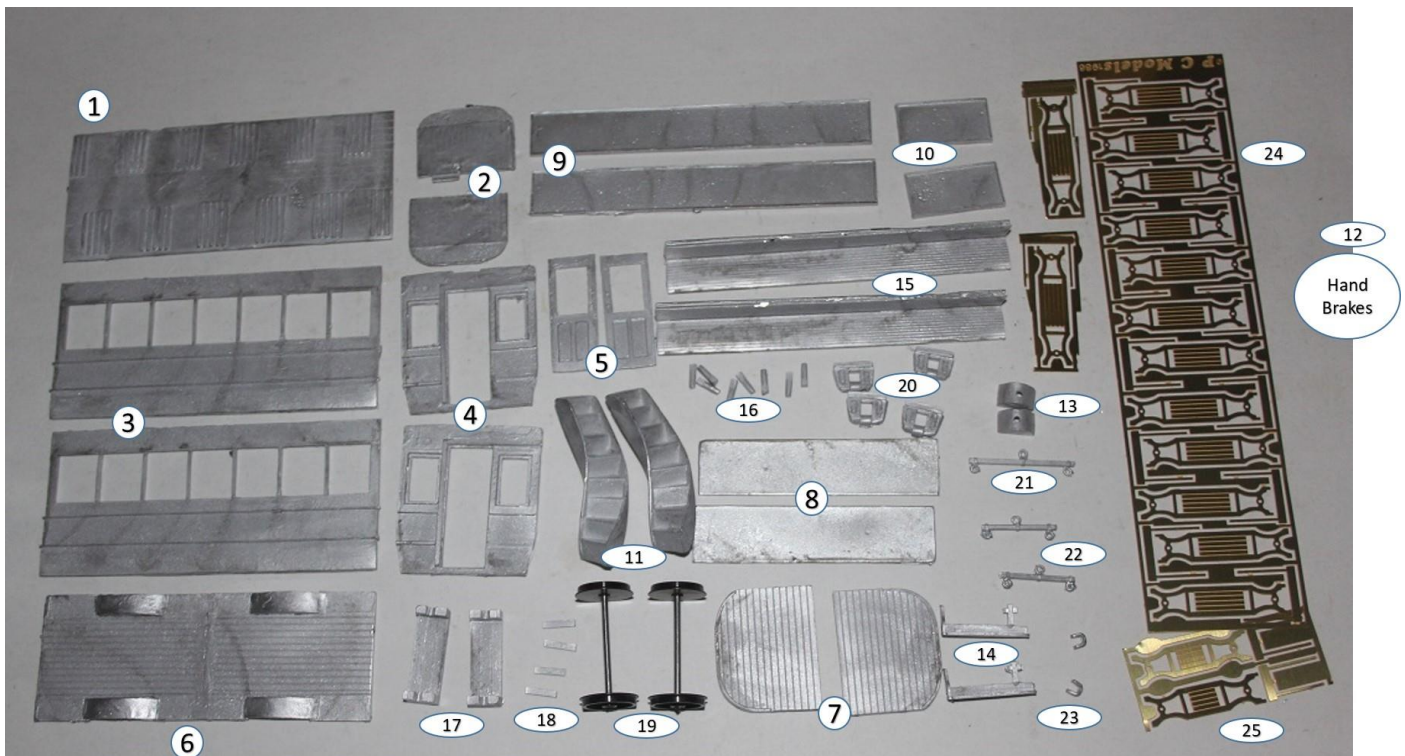


# KW Trams

## KW 109cg Glasgow Type IIB horse car.

### Parts

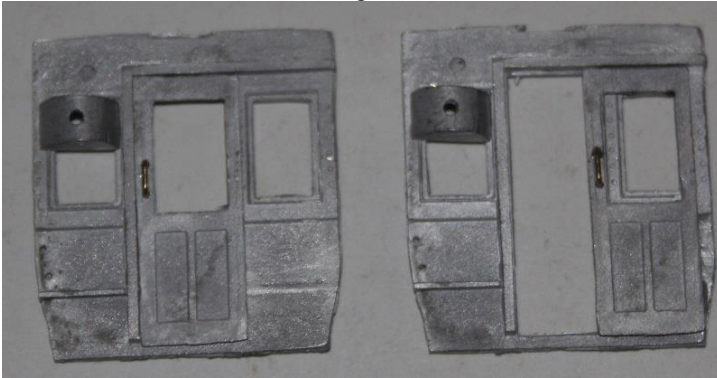


- |                               |     |
|-------------------------------|-----|
| 1. Floor / ceiling            | x1  |
| 2. Floor / ceiling ends       | x2  |
| 3. Lower side                 | x2  |
| 4. Bulkhead                   | x2  |
| 5. Bulkhead door              | x2  |
| 6. Floor                      | x1  |
| 7. Platform                   | x2  |
| 8. Dash                       | x2  |
| 9. Open top upper sides       | x2  |
| 10. Open top upper ends       | x2  |
| 11. Stairs                    | x2  |
| 12. Handbrake                 | x2  |
| 13. Bulkhead lamp             | x2  |
| 14. Step                      | x2  |
| 15. Lower deck seats          | x2  |
| 16. Seat supports             | x8  |
| 17. Axle supports             | x2  |
| 18. Axle retainers            | x4  |
| 19. Axles & wheels            | x2  |
| 20. Axle boxes                | x4  |
| 21. Double swingle            | x1  |
| 22. Single swingle            | x2  |
| 23. Front brackets            | x2  |
| 24. Etched brass double seats | x12 |
| 25. Etched brass single seats | x2  |

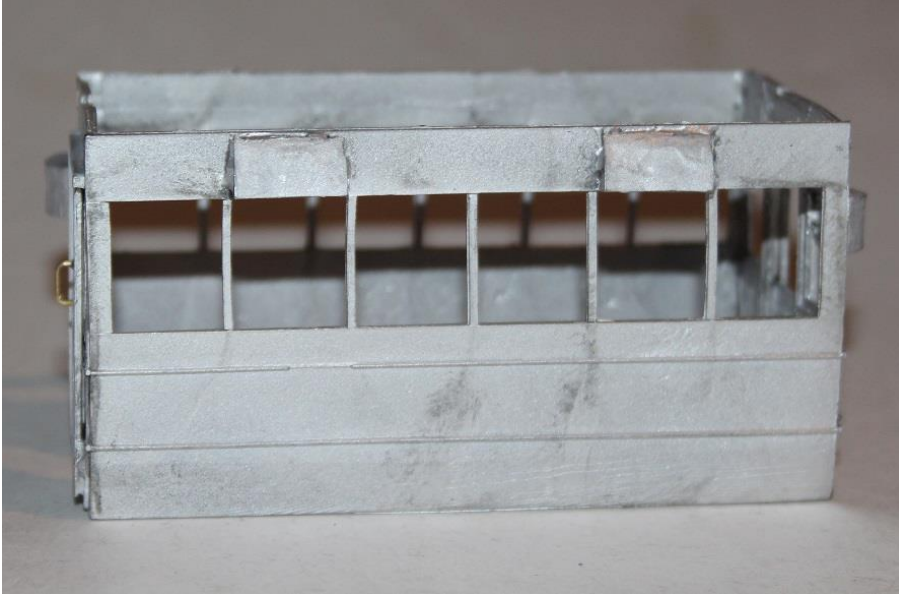
### Build Steps

Note – the pictures below show a different tram – with different sides, but the build steps are the same.

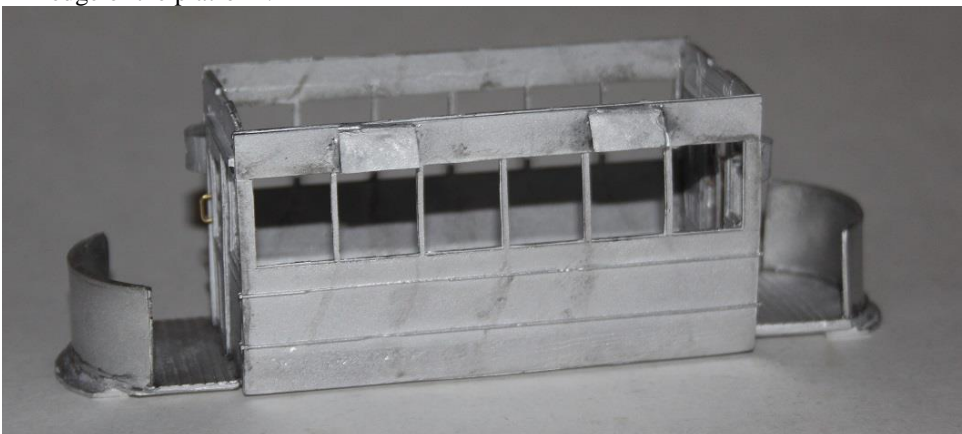
1. Fit the bulkhead doors and lights to the bulkheads.



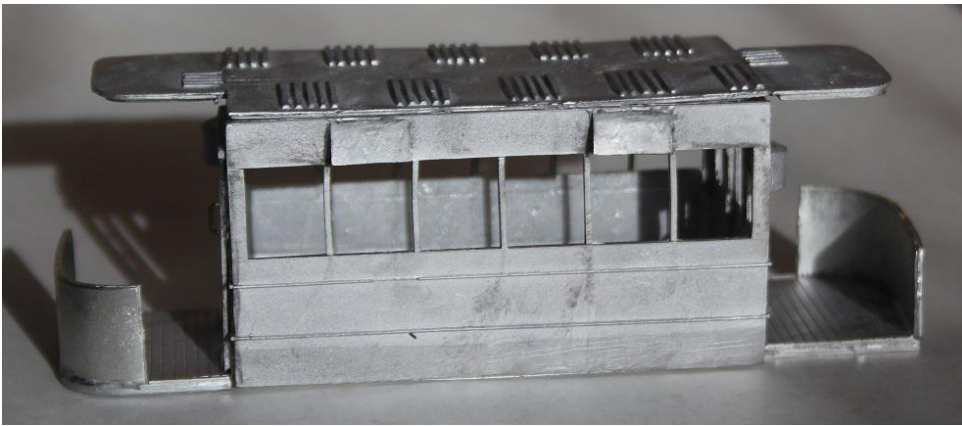
2. Fix bulk heads to sides squarely and marry subassemblies to produce a box effect.



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.



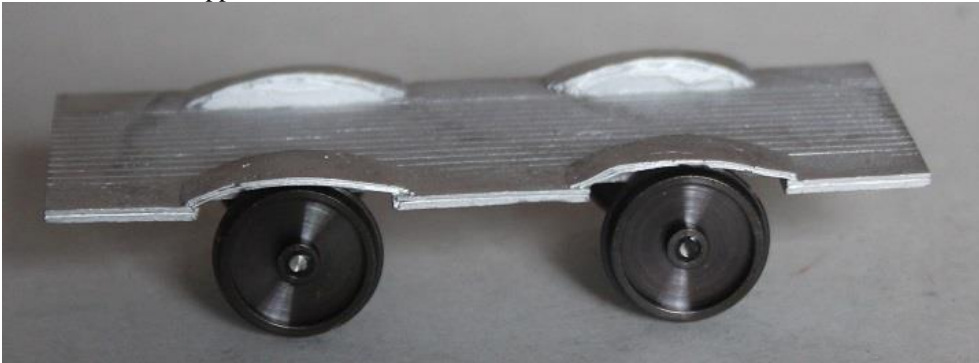
5. Fit the ceiling/upper deck floor. Fit the ceiling ends.



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



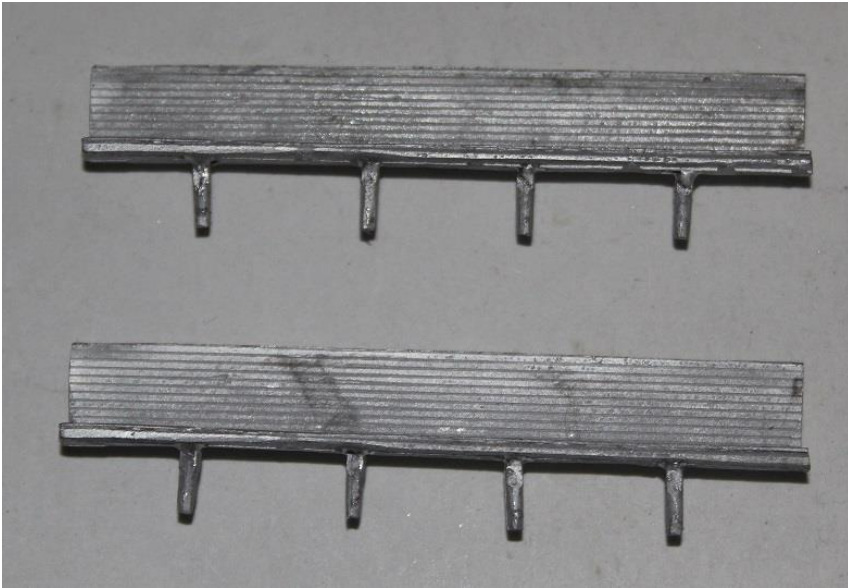
7. Fix the axle supports under the floor so that the wheels are in the centre of the wheel arches.



8. 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.



9. 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.



10. Take two of the double seats and the two single seats, and make them into 2 triple width seats. The seat backs are not required.



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



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

