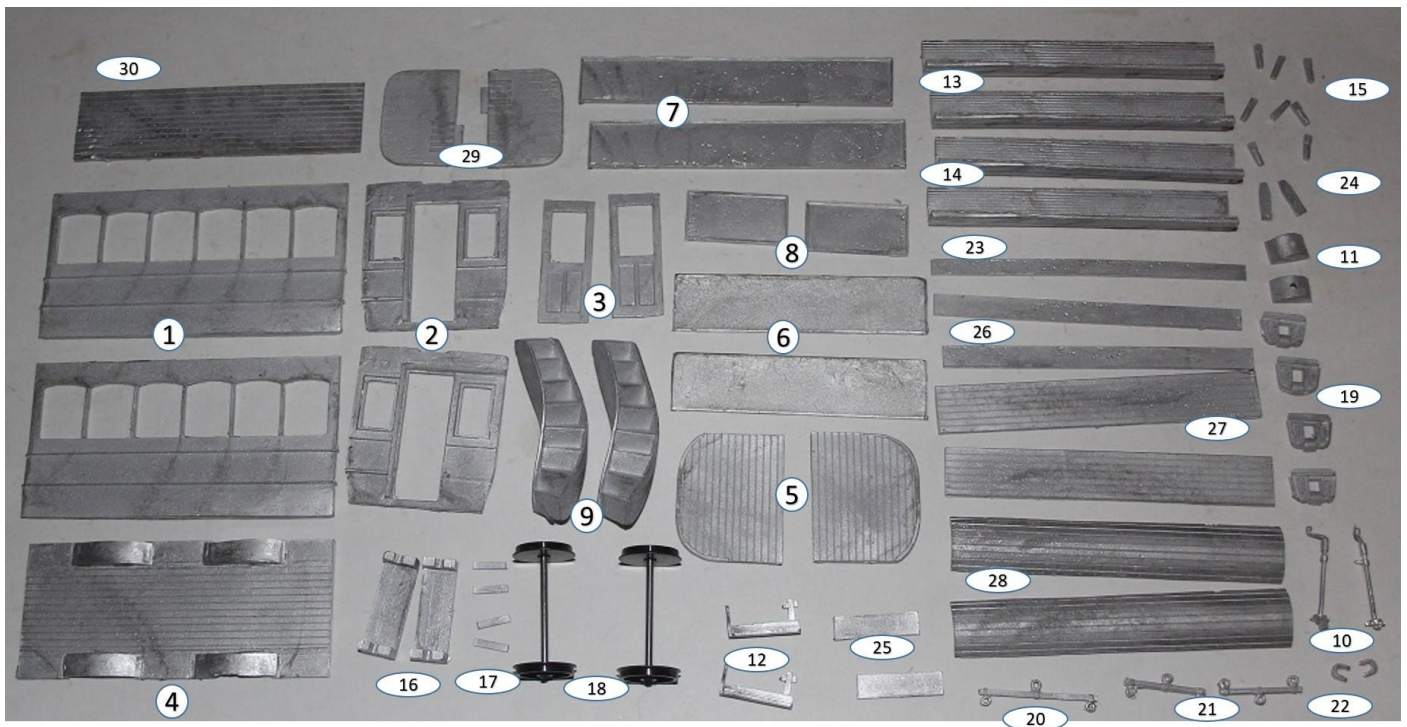


## KW Trams

### **KW 109bk Liverpool Type E Horse Car.**

#### Parts

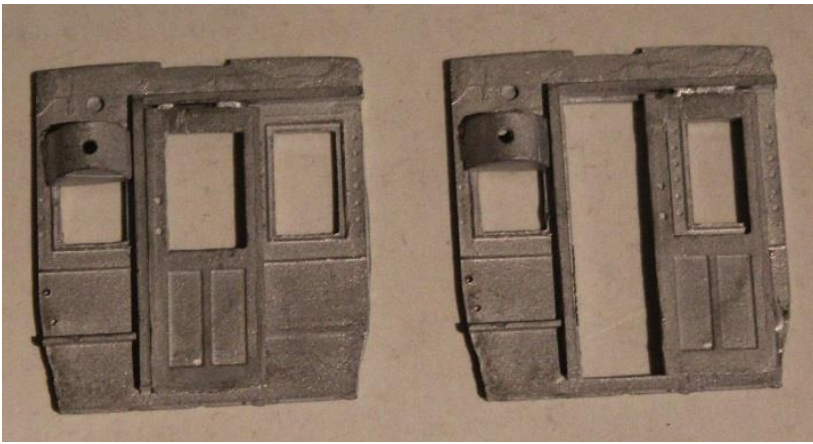


1. Lower side	x2
2. Bulkhead	x2
3. Bulkhead door	x2
4. Floor	x1
5. Platform	x2
6. Dash	x2
7. Open top upper sides	x2
8. Open top upper ends	x2
9. Stairs	x2
10. Handbrake	x2
11. Bulkhead lamp	x2
12. Step	x2
13. Lower deck seats	x2
14. Upper deck seats	x2
15. Seat supports	x8
16. Axle supports	x2
17. Axle 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
31. Upper floor additional panel	x2

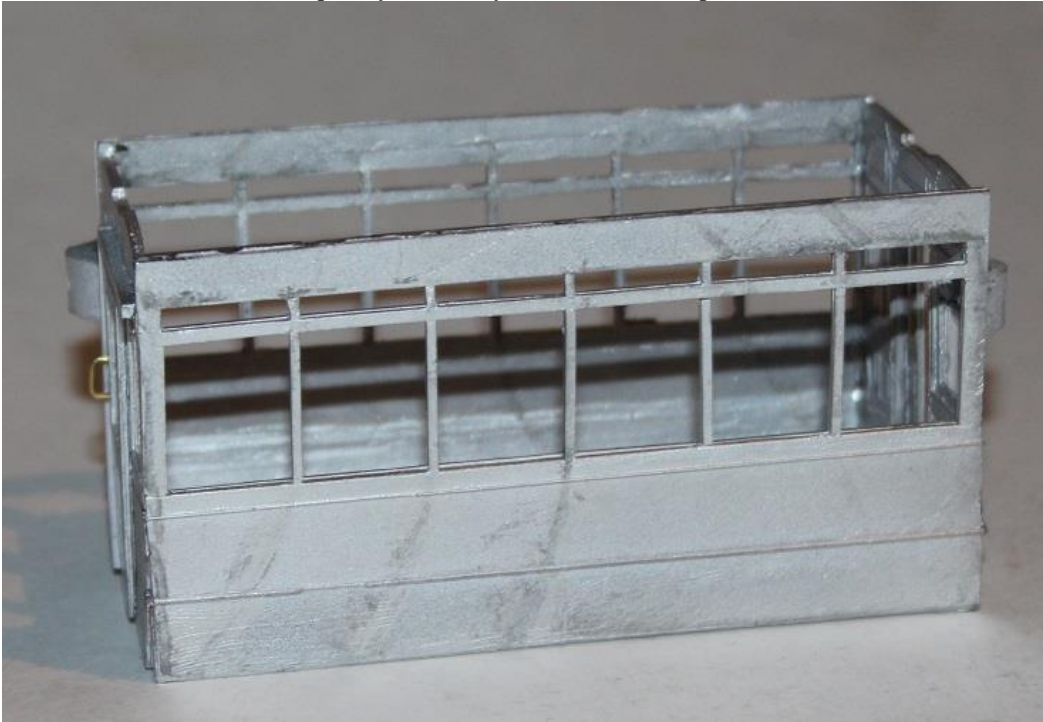
#### Build Steps

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

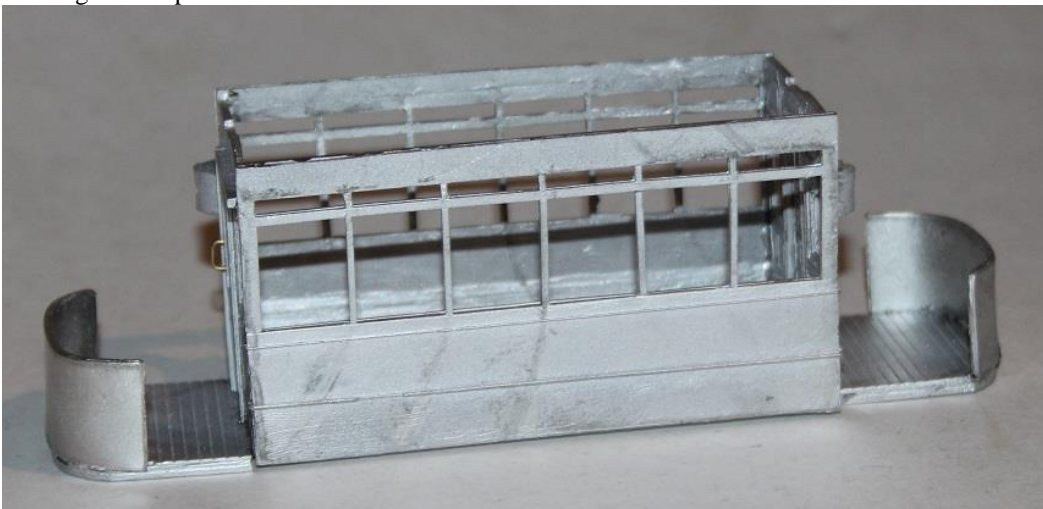
1. Fit the bulkhead doors and lights to the bulkheads.



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

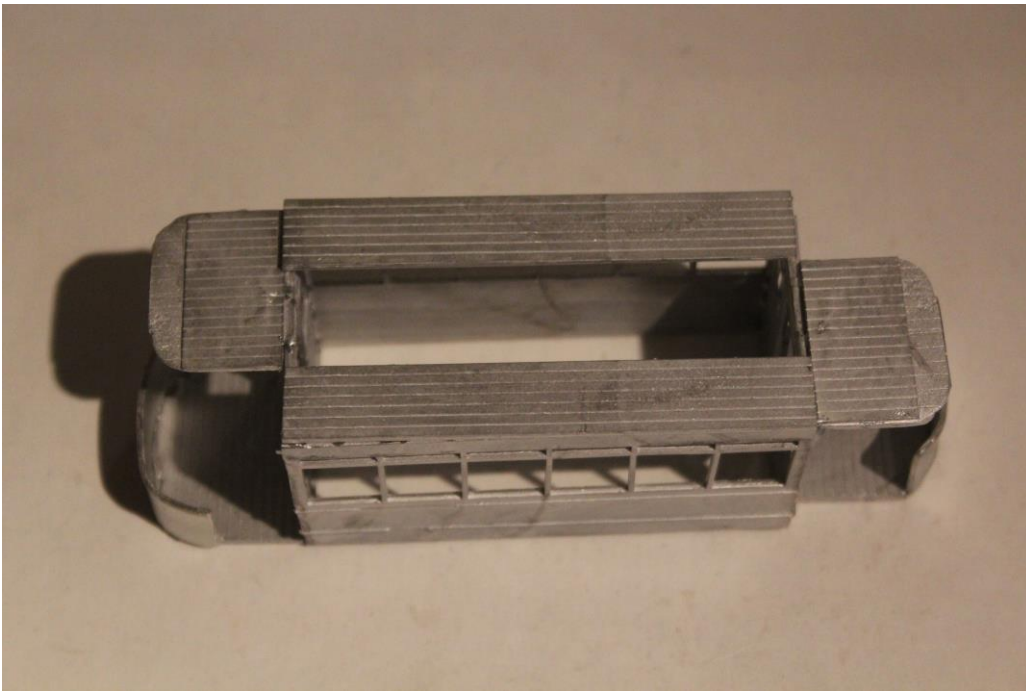


3. With model inverted, attach platforms to bottom edges of bulkheads; with the platform mounted to the left of the car and the outer edge in line with the outer edge of the bulkhead.
4. Gently bend the dash panels to fit the shape of the platform front, cut to length and fit to platform in the cut out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

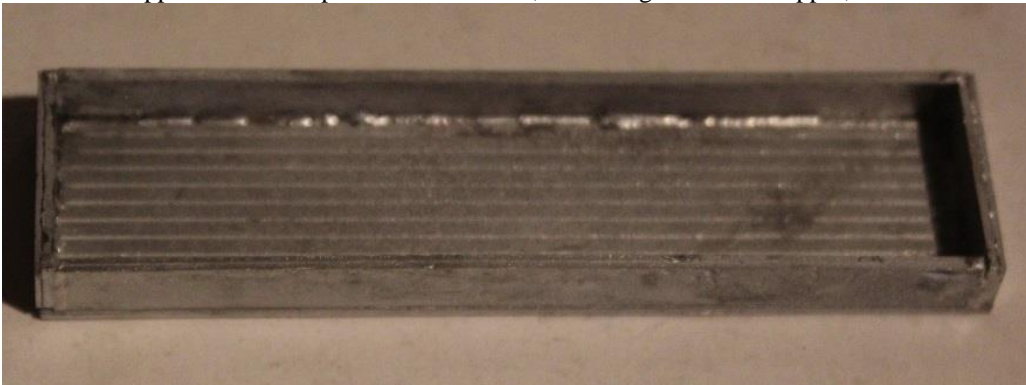


5. Fit the ceiling ends with the tabs into the notches in the tops of the bulkheads. Fit the upper deck floor sections at each side of the body, with the outer edge on top of the body sides.

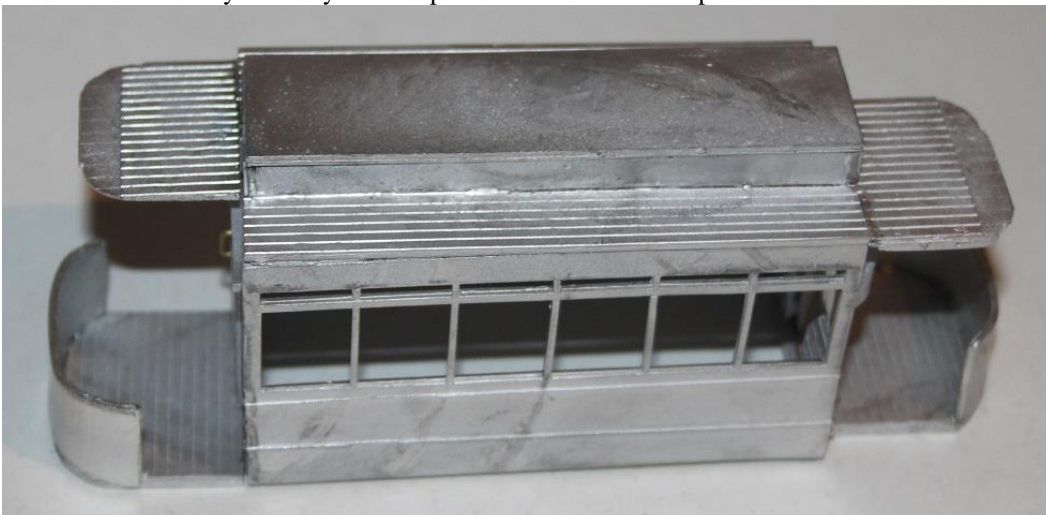




6. Put the upper seat base top on the workbench, with the grooved side upper, and fix the base ends and sides to form a box.



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.

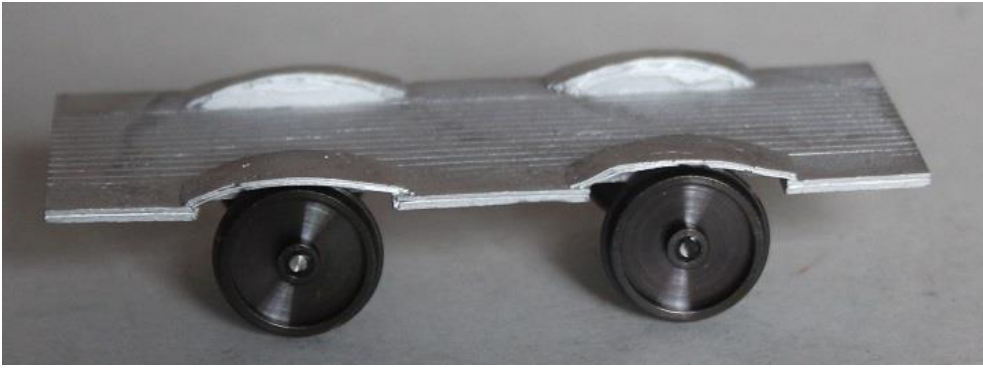
9. Fit the seat top strip to the tops of the two seats.

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.



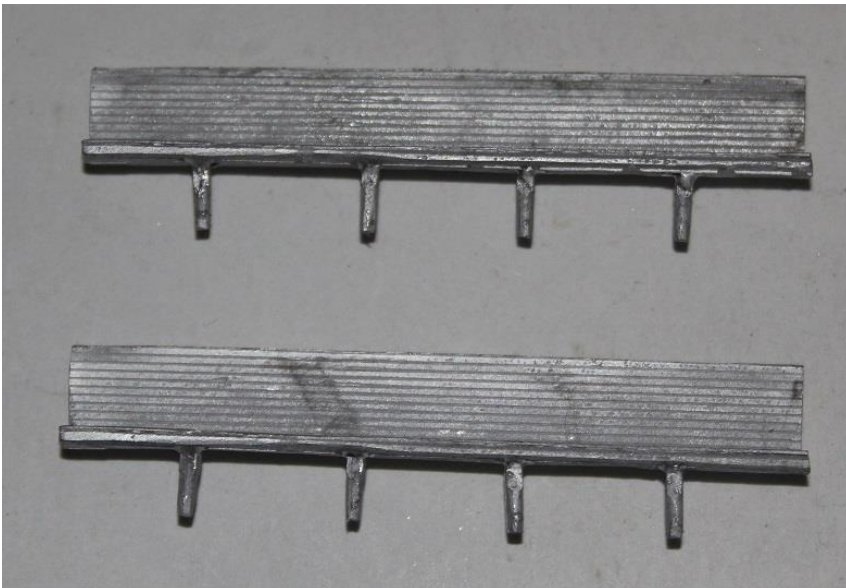
12. Fix the axle supports under the floor so that the wheels are in the centre of the wheel arches.



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).

