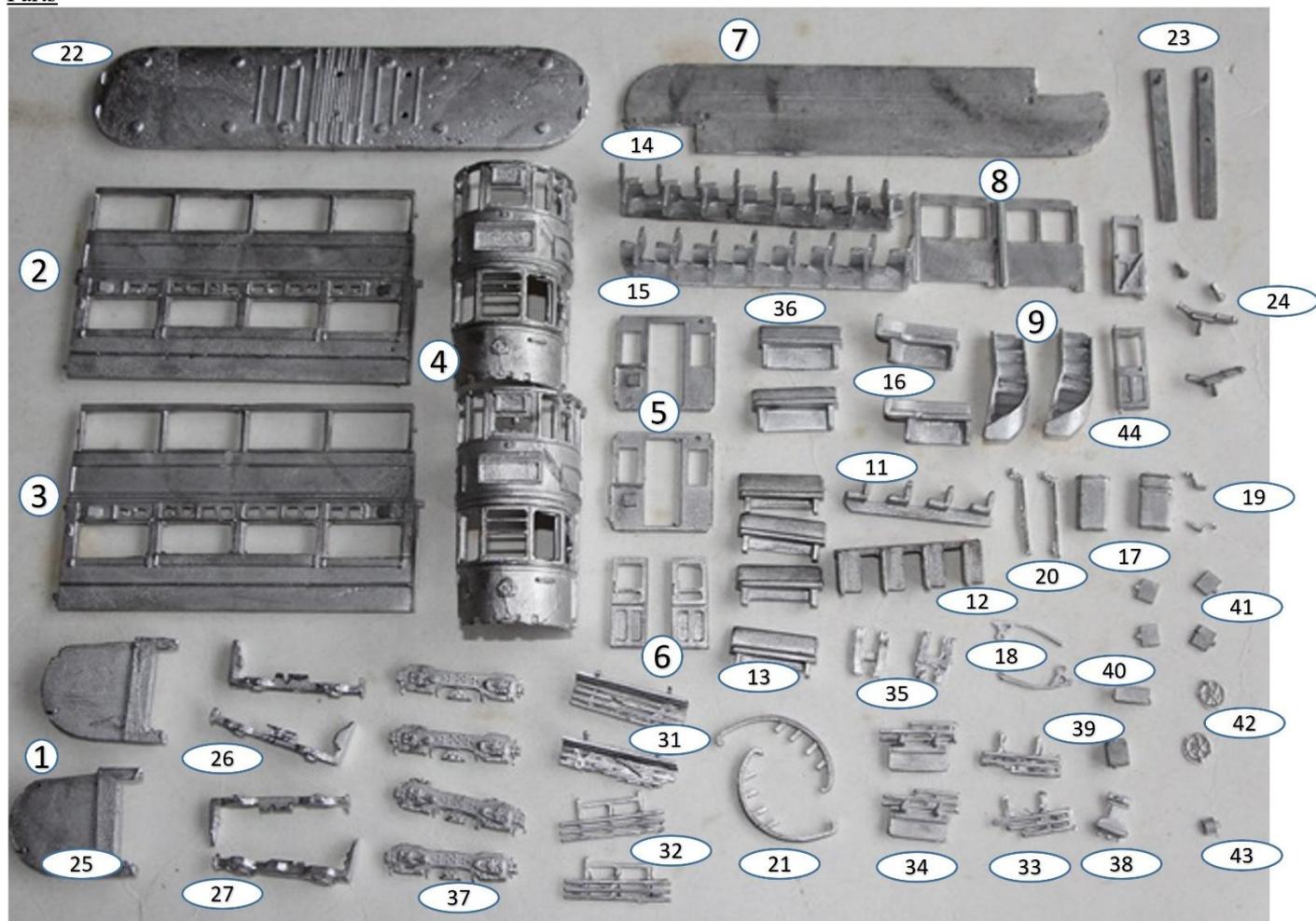


# KW Trams

## R442 London E/3 or HR/2

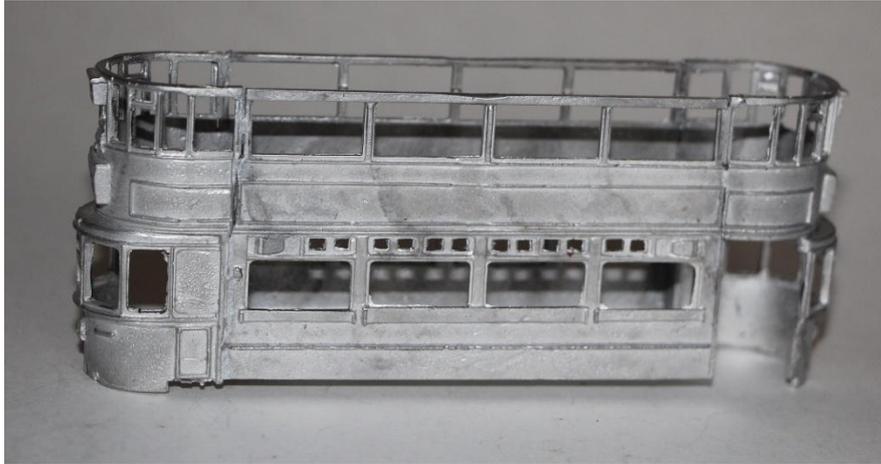
### Parts



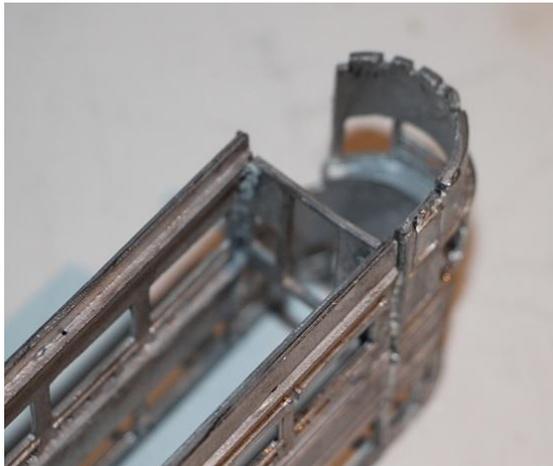
- |                                     |    |                                |    |
|-------------------------------------|----|--------------------------------|----|
| • 1. Platforms                      | x2 | • 31. Lifetrays                | x2 |
| • 2. Side                           | x1 | • 32. Front lifeguard          | x2 |
| • 3. Side                           | x1 | • 33. Nearside lifeguard       | x2 |
| • 4. Body ends                      | x2 | • 34. Step and lifeguard       | x2 |
| • 5. Lower deck bulkheads           | x2 | • 35. Plough carrier           | x2 |
| • 6. Lower bulkhead doors           | x2 | • 36. Balcony straight seat    | x2 |
| • 7. Upper floor                    | x1 | • 37. HR2 bogie sides          | x4 |
| • 8. Upper bulkheads                | x2 | • 38. Spare plough             | x1 |
| • 9. Stairs                         | x2 | • 39. Conductor box            | x1 |
| • 11. Lower deck single seats       | x1 | • 40. Tool box                 | x1 |
| • 12. Lower deck double seats       | x1 | • 41. Small destination plates | x4 |
| • 13. Lower deck end seats          | x4 | • 42. Handbrake wheels         | x2 |
| • 14. Upper seats left              | x1 | • 43. Conduit switch           | x1 |
| • 15. Upper seats right             | x1 | • 44. Upper deck doors         | x2 |
| • 16. Balcony curved seats          | x2 |                                |    |
| • 17. Controller                    | x2 |                                |    |
| • 18. Handbrake support             | x2 |                                |    |
| • 19. Controller handles            | x2 |                                |    |
| • 20. Handbrakes                    | x2 |                                |    |
| • 21. Bumpers                       | x2 |                                |    |
| • 22. Roof                          | x1 |                                |    |
| • 23. Trolley planks                | x2 |                                |    |
| • 24. Trolley pole spring and wheel | x2 |                                |    |
| • 26. Bogie sides left              | x2 |                                |    |
| • 27. Bogie sides right             | x2 |                                |    |

## Build Steps

1. Fix Upper Ends (4) to Body Sides (2&3).



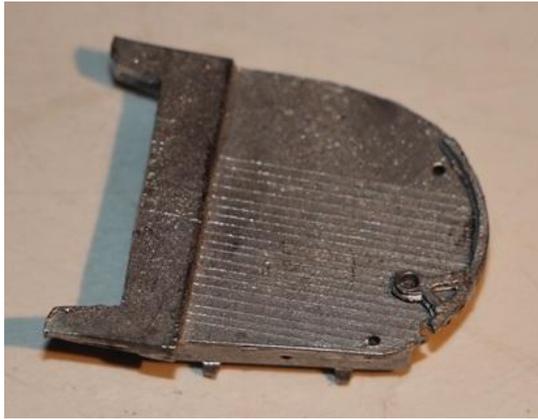
2. Fit bulkhead doors (6) to bulkheads (5).
3. Fit Bulkheads between Body Sides. Nominate End A and End B of the car by locating Conduit / Trolley Switch Box (43) on Bulkhead at End B.



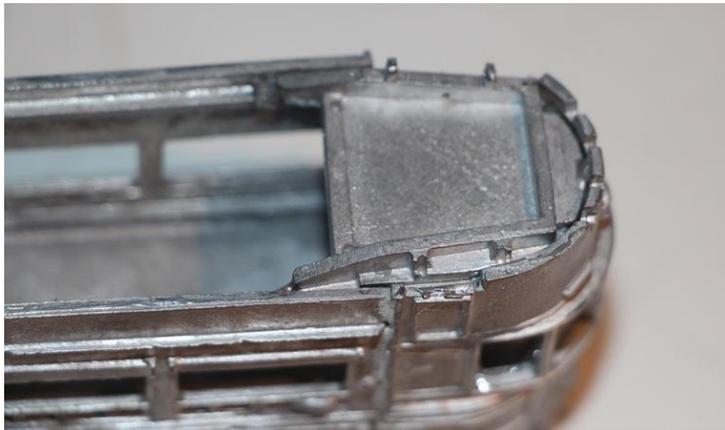
4. Fit the Upper Floor (7).
5. Fit upper bulkhead (8) and upper doors (44) around stair hole.



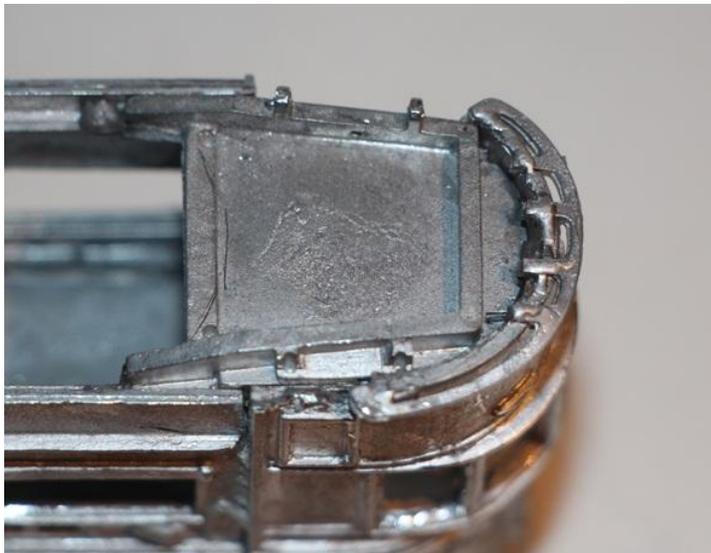
6. Fit the handbrake mountings (18) to the platform.



7. Fit platforms (1a) to bottom of bulkhead and flush against rear of end.



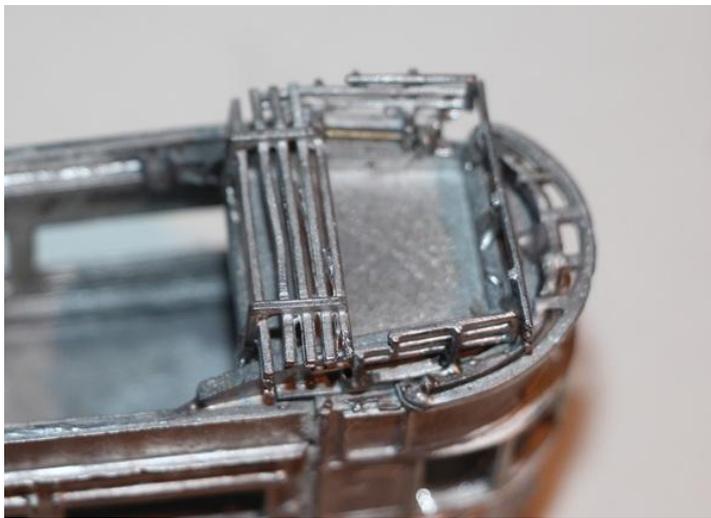
8. Fit bumper (21) into slots in bottom of tram end.



9. Fit step / lifeguard (34) to underside of platform. If you want to make it capable of being tipped, then drill through the mounting holes and put a piece of brass rod (not supplied) through, to hold it in place. Alternatively fit them in either the raised or lowered positions. Fit the front (32) and near-side lifeguards (33).



10. Fit the lifetray (31) to the back of the platform, making sure that the step can still tilt if required.



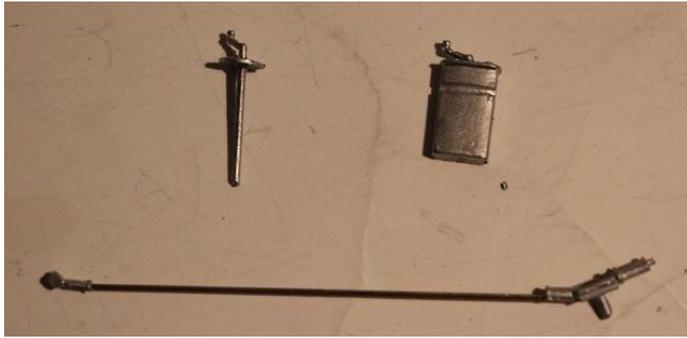
11. Fit plough carriers (35) to middle of sides.



12. Fit the handbrake wheels (42) to the handbrakes (20).

13. Fit the controller handles (19) to the controllers (17).

14. Make up the dummy trolley poles if required with the wheels and springs (24) with 60mm lengths of brass rod (not supplied).



15. Fit the trolley planks (23) to the roof (22) if required. Do not fit the roof to the model until you have painted and glazed the upper deck.

