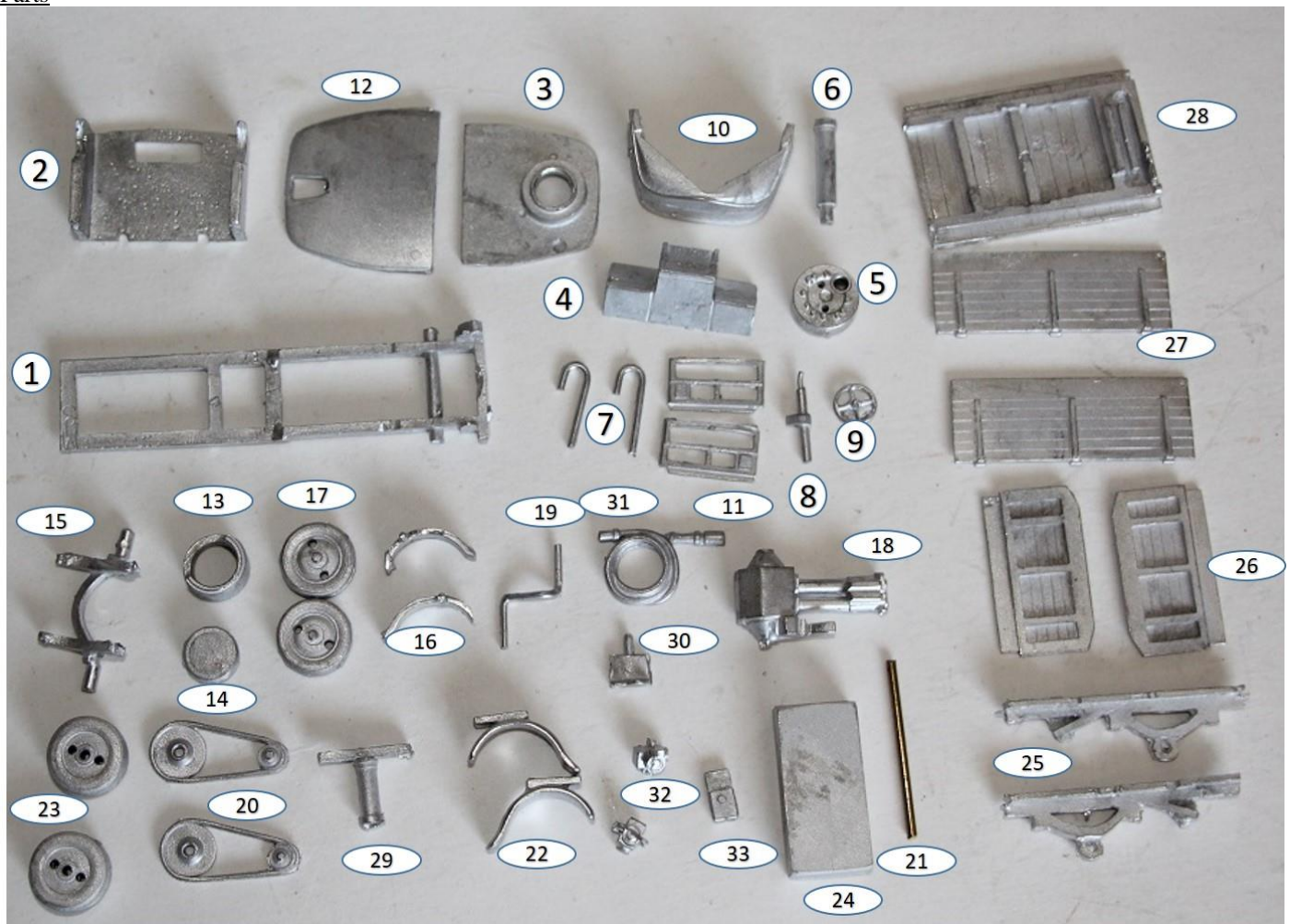


# KW Trams

## R120c Super Sentinel Tipper

### Parts

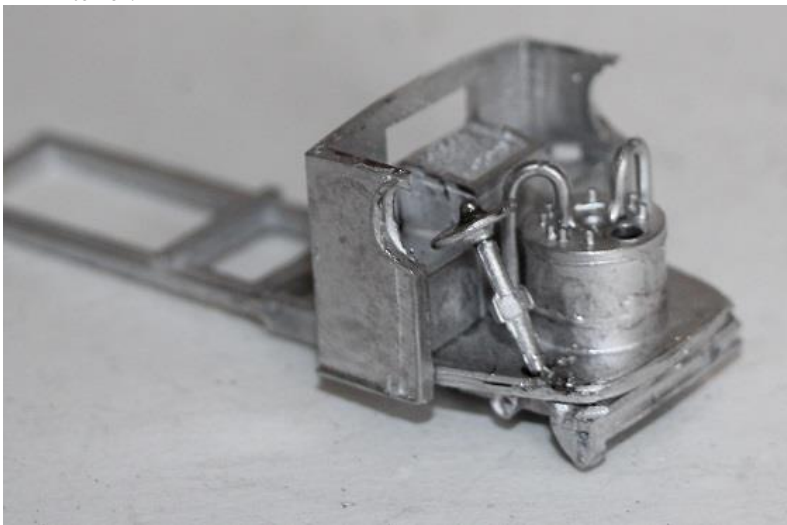


- |                                |    |
|--------------------------------|----|
| 1. Chassis                     | x1 |
| 2. Cab back                    | x1 |
| 3. Cab floor                   | x1 |
| 4. Seats / bunker              | x1 |
| 5. Boiler top                  | x1 |
| 6. Chimney                     | x1 |
| 7. Boiler clamps               | x2 |
| 8. Steering column             | x1 |
| 9. Steering wheel              | x1 |
| 10. Cab front                  | x1 |
| 11. Cab windscreen             | x2 |
| 12. Cab roof                   | x1 |
| 13. Boiler lower body          | x1 |
| 14. Boiler base                | x1 |
| 15. Front axle                 | x1 |
| 16. Front mudguards            | x2 |
| 17. Front wheels               | x2 |
| 18. Engine                     | x1 |
| 19. Bent pipe                  | x1 |
| 20. Chain drives               | x2 |
| 21. Rear axle                  | x1 |
| 22. Rear mudguards             | x2 |
| 23. Rear wheels                | x2 |
| 24. Water tank                 | x1 |
| 25. Chassis side members       | x2 |
| 26. Tipper box ends            | x2 |
| 27. Tipper box sides           | x2 |
| 28. Tipper floor               | x1 |
| 29. Hydraulic tipping cylinder | x1 |

30. Hose bracket	x1
31. Hose	x1
32. Lights	x2
33. Rear number plate	x1
34. 20 swg wire	x1

### Build Steps

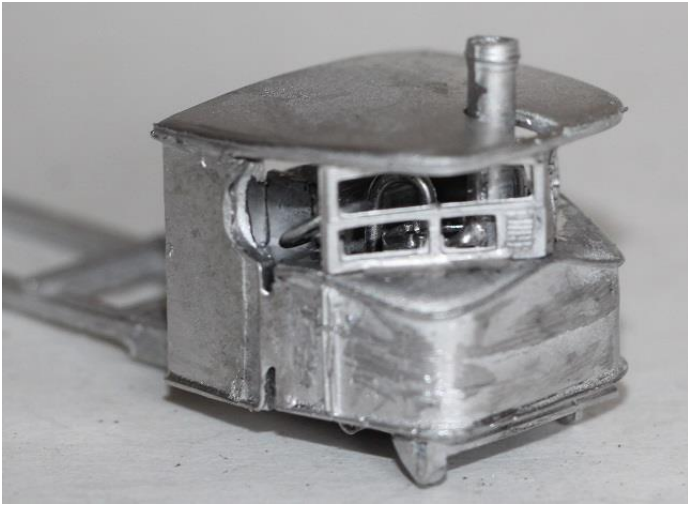
1. Put the chassis, boiler lower body and cab floor together to make sure that they line up properly then fix the cab back to the chassis.
2. Fix the cab floor onto the chassis inside the cab back, with the raised section upper most.
3. Fit the seat / bunker into the cab back
4. Fix the boiler top to the floor with the large hole centrally at the front.
5. Fix the two boiler clamps into the boiler top and the corresponding holes in the cab floor.
6. Fit the chimney.
7. Fit the steering column into the hole on the offside of the floor. Don't fit the steering wheel until you have painted the cab interior.



8. Fit the two parts of the windscreen to the cab front with the tabs on the inside and the closed panels in the middle.
9. Fit the cab front to the cab.



10. Fit the chimney and cab roof.

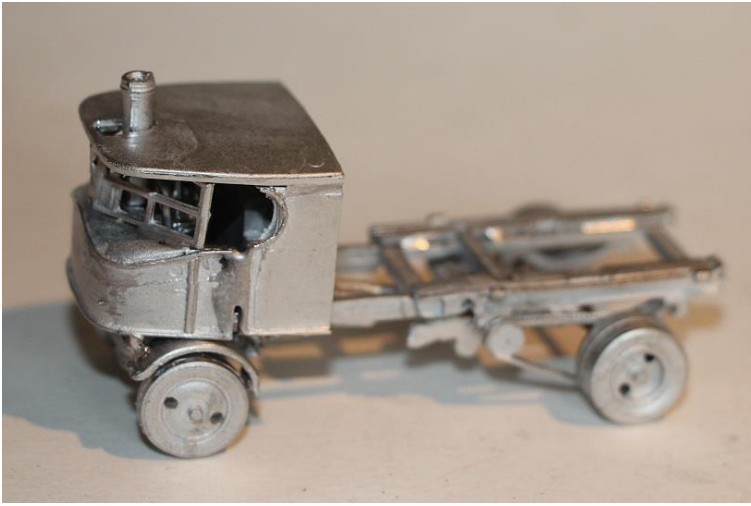


11. Turn the model over and fit the boiler lower body and base.
12. Fit the front axle round the boiler.
13. Fit the front mudguards and wheels.
14. Fit the engine to the chassis with the hole through the engine lined up with the holes in the chassis.
15. Cut the bent pipe to the correct length and then fit to the end of the motor and under the cab floor.

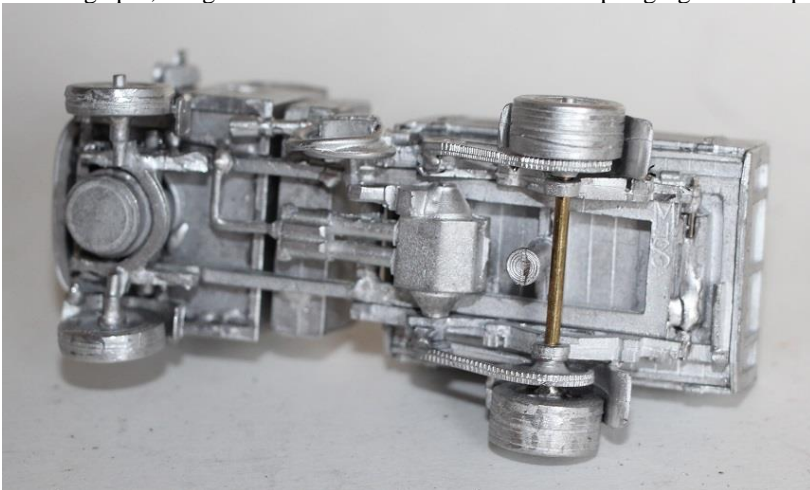


16. Fit the 2 chassis side members to the chassis base. These fit with the notches fitting round the bar across the top of the chassis.
17. Fit the axle through the rear axle springs, then fit the chains on the axle with the pin on the small cog in the chassis holes by the engine.
18. Fit the rear mudguards and wheels.





19. Fit the rear number plate under the rear edge of the chassis and to one side.
20. Fit the large rectangular water tank behind the cab.
21. Cut a hinge pin, 3/4" long, from the 20swg wire, and fit this into the sockets at the rear of the chassis side members. The wire can be retained by carefully 'nipping' the sockets with pliers or better still by using the solder or adhesive you are using for the main assembly.
22. Fit the hydraulic tipping cylinder with its cylinder hanging downwards into the slots on the top surface of the chassis side members. NOTE, if the body is to be assembled into the 'tip' position the cylinder should be drilled out to enable a piece of 20g wire to be inserted as a ram which can then rest on the underside of the tipping body.
23. Fit the 2 body sides and the head and tailboards to the body floor making an open topped 'box'. This 'box' is fitted to the hinge pin, the groove on the underside of the 'box' springing over the pin.



24. Fit the hose bracket & hose if required.
25. Fit the lights to the sides of the cab.

