

# BALDWIN LOCOMOTIVE WORKS

## Sandy River Locomotive No19 2-6-2

These notes are to be used in conjunction with the photographs.

### CHASSIS

1. Cut out the inner chassis parts.
2. Fold up both sides of the chassis.
3. Solder the 12BA nuts to the inner chassis spacers.
4. Solder in the spacers, spacer C goes to the rear of the chassis (See photo 2).
5. Solder the half etch spring detail on the the outer chassis.
6. Six bearings need a flat filing on the flange (see photo24).
7. Fold up the outer chassis.
8. Using the two shafts, mount the gears as shown in the photo both the worm gear and the intermediate gear should rotate freely on the shafts, the gear with the interference fit goes on the axle (see photo25) note the use of a small bearing used as a spacer.
9. and 10. Solder the inner and outer chassis
11. Fold up the cylinder mounting bracket.
12. Solder the bracket to the chassis. The slots on the back of the bracket align with the tabs on the outer chassis.
13. Solder the rear buffer beam.
14. Solder the cylinder castings. These now have a hole going right through, but will need to have a drill just run through. The hole at the front will have to be filled, the step part goes to the rear.
15. Solder the boiler support/crosshead bracket on.
16. The slidebars are bent, the half moon shape going round inside of the step on the cylinder casting.
17. Solder 12BA nuts, one at each end to the inside of the wheel keeper plate. The front and rear bogie are attached to these.
18. Mount the rear footplate and fold up the brackets.
19. Solder the brackets to the footplate.
20. Using 0.4mm wire mount the trailing bogie frames.
21. Solder the cowcatcher the front running plate, and the extension bar.
22. & 23. This unit is held in place with 10BA screw, which also holds the front of the body on.
24. Axle bearings with the flange filed down. Once the keeper plate is in position this stops the bearing from rotating.
25. Mount the bearings on the axles with the flange to the outside and on one axle the gear with the interference fit, this will be the rear axle. The middle axle has the flangeless wheelset.
26. Fit the 14BA screws to the plastic cranks. There are correct pattern etched cranks on the chassis etch. The plastic ones being much easier to quarter.

27. 14BA nuts are used as a temporary measure while quartering the cranks, the right hand side is the leading crank. These cranks do not need glueing. Once the quartering is ok crankpin washers on the leading and trailing axels can be soldered on. Tip: Use a thin piece of paper underneath the washer, wet this and slide the washer on and solder quickly using 145° solder
28. You should now have a chassis that looks like this.
29. & 30. Rivet the connecting rod to the crosshead.
31. Mount connecting rod on the middle axel soldering a retaining washer on as in stage 27. You should now have a very free running chassis.
32. Mount the plastic bush on the rear footplate. This is for the drawbar.
33. Cut out the cab etches.
34. Bend up the front and rear cab etches and solder two 12BA nuts over the holes in the rear etch.
35. The front etch goes around the rear etch.
36. & 37. Bend out the tabs that support the boiler and mount the cab on the chassis.
38. The boiler etch (which has all the holes for handrail knobs etc. etched out) is wrapped rolled around the boiler tubing, the firebox is formed by cutting the tubing and bending into a U shape (See pic 40).
39. Using the tabs in the cab to adjust the height of the boiler until it sits on the chassis parallel.
40. Once happy with the position tack solder the two together checking that the Cab/boiler is still parallel.
41. The smokebox etch (which again has all the holes etched in) is rolled around the tube that slides into the boiler tube. Drill and tap 10BA the mounting hole at the bottom a nut is supplied should you prefer.
42. Position the smokebox front casting this can be soldered on at a later date.
43. Drill out the holes to mount the domes, chimney and bell.
44. Solder on the headlamp casting.
45. Drill out the holes 0.75mm for the handrail knobs. The drill the outside boiler wrapper 1.2mm so the flange of the handrail knob sits in this.
46. Use the handrail as a guide to keep the knobs inline.
47. Bend and solder on the running plate supports to the boiler.
48. Solder on the running plate.
49. Bend up the roof and solder onto the cab. Solder on the Vent on top of the roof. Add the clack details using the short handrail knob supplied and 0.4mm brass wire. From the 0.4mm wire bend up handrails for the side and rear of the cab, along with the beading that runs along underneath the side windows.

## TENDER

50. Cut out the tender etch.
51. Fold up the sides and bend out the axlebox sides.
52. Fold down the axle boxes.
53. & 54. Solder in the brake hanger wire.
55. Fold up the axle box etching.

56. Solder on the axel box etching
57. & 58. Cut out and fold up the inner tender etch
59. Fold up the flair on the tender wrapper.
60. & 61. Fold the tender wrapper around the inner shell and solder together.
62. Bend up the corner fillets with round nosed pliers and solder inplace using blue tack to hold things in place. Spare corner fillets are included.
63. Clean up the outside of the tender, being careful not to file off the rivets.
64. Put in the wheel sets making sure that the insulated wheels go on the same side.
65. The finished boghies should look like this.
66. Cut out the bogie pivots.
67. & 68. Fold up the bogie pivot and solder the 12BA nut on
69. Solder the pivots on the bottom of the tender footplate this has the half etches for the tender side frames and a half etch for the drawbar pivot at the front.
70. Solder the side frames on to the bottom with the half etches for the steps on the outside and the curve at the top.
71. & 72. Cut out the steps and solder to the half etch recess. Bend up the front and rear buffer beams the front one is the same depth as the side frames.
73. & 74. Solder up the screws and washers to make up the bogie pivots and cut down to 5mm length.
75. Make up the tool boxes and solder on the hinge detail. Using the small hand rail knobs make up the handles that go on the front of the tender.
76. The tank filler is made from a turning and an etched filler cap.

Please keep a look out on the website to down load p dates of the instructions,  
[www.victorsmodels.co.uk](http://www.victorsmodels.co.uk)