

# LANGLEY MINIATURE MODELS

166 THREE BRIDGES ROAD, CRAWLEY,  
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009 Scale 0-4-0 'PRINCE' Tank Loco kit Ref.I.6.

## Tools

A selection of rat-tailed files are a necessity, with flat, knife edge, triangular, round and square being the most useful. A pinchuck complimented by a range of drills would also be of assistance as would a small vice.

Depending on the method of construction chosen, suitable quick setting 5 minute Epoxy resin such as Aradite Rapid or similar, or alternatively a clean tipped soldering iron and low melt solder. Also a wire brush i.e. a suede shoe brush, and scraps of fine wet and dry paper to clean up areas which have to be joined. Another useful tool is a small chisel for easing the separation of individual parts from the fret.

To simplify the instructions it has been assumed that the method of assembly chosen will be soldering, if this is not so, substitute gluing where appropriate. Where the word 'glue' or 'gluing' is used we have chosen this procedure to attach the fine cast parts or similar and would suggest that method is used in these instances.

## Glues or Solder

- a). 5 minute Epoxy glue is suited to most modellers as it allows time to adjust the parts during assembly. examples are Araldite Rapid, Devcon etc.
- b). Cyanoacrylic glue e.g. Loctite, Superbond etc. is suited to the modeller who can locate parts accurately first time as it sets instantly.
- c). Solder is best suited to the experienced modeller, and Low melt solder with appropriate flux will be needed. (i.e. Langley Super Low Melt solder with langley Low Melt Solder Flux). Great care must be taken to ensure that the hot soldering iron does not melt the castings.

## Paints

Any quality paint can be used, types recommended are Floquil (from Victors of London) , Humbrol, Gloy or Precision Paints. It is advisable to prime the metal parts before using a top coat, preferably but not essentially with an etching primer.

## Introduction

Clean all castings and remove any flash or mould seams with a craft knife or swiss file. Ensure casting feed pipes are removed from all castings.

## Chassis Modification Ibertren 'Cuckoo' chassis

1. Remove body from chassis.
2. Remove N gauge couplings from front and rear of chassis.
3. Identify parts B,C,D & E on chassis shown black on drawing, and remove.
4. Lightly file down steam chest detail on the top of the cylinders and across the chassis top to make seating for footplate (9) (shaded on drawing).
5. Offer up footplate (9) to chassis with coupling pocket on underside abutting front of chassis. Drill down through cast hole in centre of nut recess in part 9, through chassis front. 10BA clearance hole (drill No.50)  
Note; it might be advisable to lightly glue the motor into place on the chassis saddle.

## Body Assembly

6. Familiarise yourself with the parts and for preference have a dry run.
7. Locate and glue R/H side (1) to L/H side (2).
8. Glue hand brake (3) to rear spectacle plate (4). Locate into boiler assembly (1 & 2) and glue into place.
9. Locate drawbar (6) (nose down) to cab floor (5), fix with pivot pin (7). Note; ensure glue does not prevent drawbar pivoting.  
Place assembly to one side.
10. Glue 10BA nut (8) into prepared footplate (9) see instruction No. 5. Locate footplate assembly on to base of boiler and glue into place.
11. Locate front coupling (11). Fix into place with pivot pin (12). Glue front vacuum hose (13) into place.
12. Drill front face of boiler .45mm and glue sandboxes (14) to either side of the smokebox.
13. Drill Handrail holes into relevant positions. Glue handrail knobs into holes (knobs are not supplied). Shape handrail (15) from wire supplied and fit into place.
14. Locate smokebox door (16), dart (17) and glue to front of smokebox. Note; hole is oversize to allow clearance on vacuum pipe. Ensure door is positioned so that light does not show from the hole.  
N.B. it is advisable to fill any gaps in the boiler joint and clean off excess material before attaching fittings.
15. Locate and glue chimney (18), lamp iron to front, water filler (19), dome (20), lubricator (21), large whistle (22) and small whistle (23).
16. Repeat handrail procedure as instruction No. 13 for handrails 24 & 25 each side.
17. Locate and glue nameplates and works plates etc. (nos. 26 to 28).

Tender Assembly

18. Locate ~~the~~ glue tender top (29) to tender floor (30). Repeat with vacuum hose (31), coupling (32) and guard iron (33).
19. Glue sideframes (36 & 37) to tender underside.
20. Fit wheels (34) on to axles (35) to required back to back and fit into sideframes.

Fitting Body to chassis

21. Position prepared chassis to butt up to footplate (9).
22. Drop prepared cab floor (5) into bottom of cab. Ensure it is pushed up to chassis back, then glue floor into place. Chassis is held in the front with 10BA screw (10). The back is held with the two small lugs used to hold Hertren body on to chassis on the original loco.

Insulation

It might be found necessary to remove corners on body castings (1 & 2) and floor casting (5) as shown at x to ensure the body does not touch the pickups. Any other suspect area could be covered with Sellotape to ensure electrics do not short.

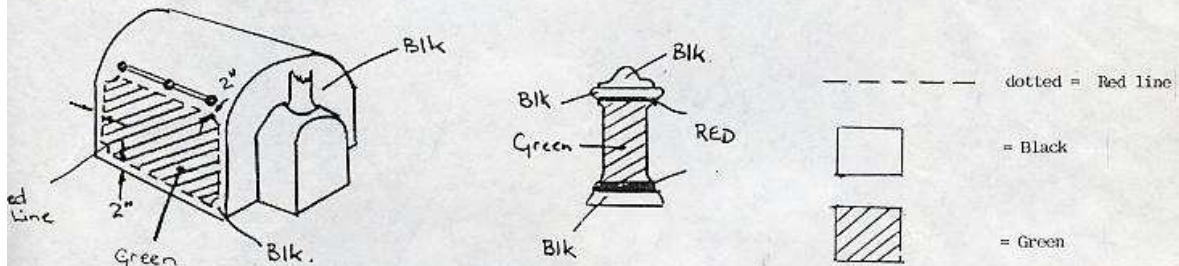
Paint as desired.

Painting—Locomotives

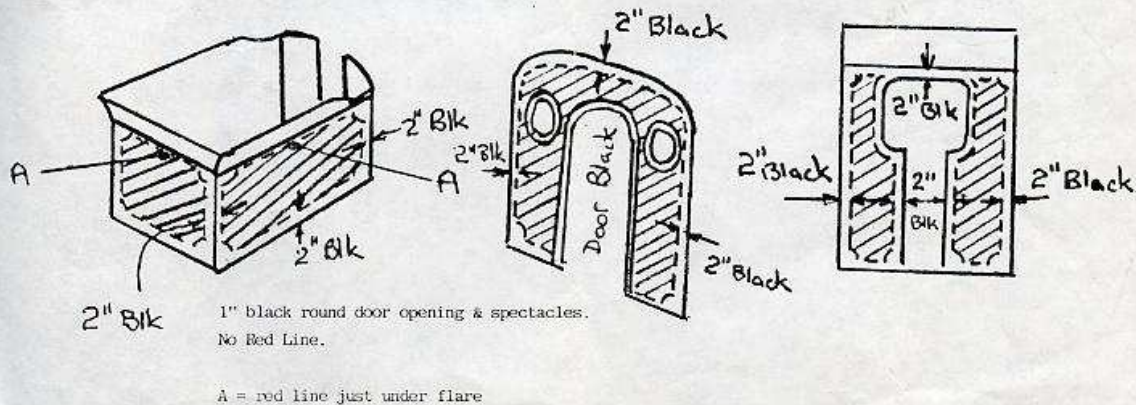
- 1863—(Probably) red with black lining. Domes: polished brass.
- 1878—Brick red, lined gold or yellow. Area outside lining solid black. Footplate, smokebox, cab roof: black. Valance, running gear: black or green or vermillion.
- 1880s—Lining-out now more ornate on double engines, having black border, then red(?), yellow, black and finally thin red lines on area perimeters.
- 1925—Dark green (similar to 'Swindon' green). Yellow lining. Panelling as 1878 with black surround. Later no lining at all. England engines: yellow numerals on front beam and rear tender. Cab interiors: dark cream

the above information is an extract from 'The Festiniog Railway' Vol.2. by J.I.C. Boyd, published by Oakwood Press.

'Prince' as preserved in standard F.R. Green Livery



crest on tender side panel placed centrally



All black except:-

Tender sides & back  
Cab sides and back,  
Saddle tank sides (to handrail),  
Sandpots

All F.R. Loco Green (Precision Paints Ltd).  
Panelled 2" black with 2" radii reversed corners.  
green panel lined out bright red.

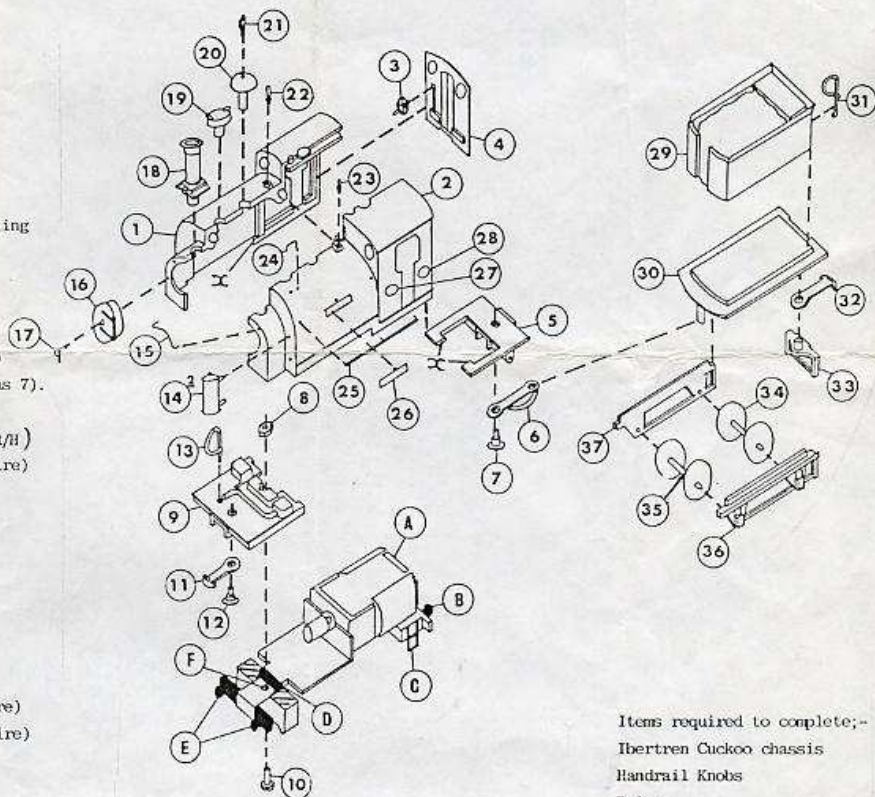
Areas not covered above:-

Motion (siderods)	-	red
Bufferbeams (engine & tender)	-	red
between frames (inside) & motion	-	red
Cab interior (except firebox)	-	light battleship grey or stone.
Spectacle rims	-	brass
Nameplates	-	brass with red inset letters.
Works and number plates	-	red background with raised brass letter and rim.

Note; due to the tiny size of the works and number plates it was found impossible to reproduce lettering satisfactorily at scale size.

009 Prince Parts list

1. 1 x R/H tank/cab side
2. 1 x L/H tank/cab side
3. 1 x hand brake wheel
4. 1 x rear spectacle plate
5. 1 x cab floor
6. 1 x engine to tender coupling
7. 1 x shouldered pin
8. 1 x 10BA nut
9. 1 x front footplate
10. 1 x 10BA bolt
11. 1 x front coupling (short)
12. 1 x shouldered pin (same as 7).
13. 1 x front vacuum pipe
14. 2 x sandbox (1 x L/H 1 x R/H)
15. 1 x smoke box handrail (wire)
16. 1 x smokebox door
17. 1 x smokebox door dart
18. 1 x chimney
19. 1 x water filler
20. 1 x dome
21. 1 x lubricator
22. 1 x large whistle
23. 1 x small whistle
24. 2 x tank top handrail (wire)
25. 2 x tank side handrail (wire)
26. 2 x etched name plates
27. 2 x etched Number plates
28. 2 x etched works plates
29. 1 x tender top
30. 1 x tender floor
31. 1 x rear vacuum hose
32. 1 x rear coupling (long)
33. 1 x rear guard iron/coupling pin
34. 4 x wheels
35. 2 x axles
36. 1 x L/H side frame
37. 1 x R/H sideframe
- 4" handrail wire



Items required to complete:-  
Ibertren Cuckoo chassis  
Handrail Knobs  
Paint  
Glue

- |    |   |          |
|----|---|----------|
| A. | 1 x Ibertren 'Cuckoo' chassis           |          |
| B. | rear buffers                            |          |
| C. | rear steps                              | } Remove |
| D. | cylinder bracket                        |          |
| E. | front buffers and bufferbeams           |          |
| F. | New hole- 10BA clearance (Drill No. 50) |          |

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