LANGLEY MINIATURE MODELS

166, THREE BRIDGES ROAD, CRAWLEY, SUSSEX. Tel: 0293 516329

Lynton & Barnstaple (S.R.) 2-4-2 Tank Locomotive 'LYN' E/LL

Adapted to suit the Grafar Compound Chassis No. 1209

Introduction

Clean all mould seams and flash (if any) from castings with a sharp knife or swiss file. Gently burnish castings with a brass suede brush (the type used to clean suede shoes).

Assembly - cast Section.

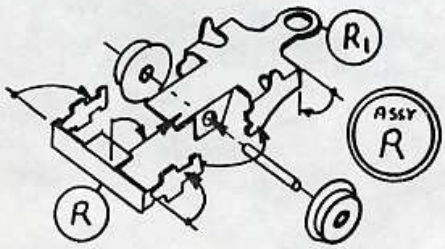
1. Locate and glue front footplate (2) to the underside of the boiler section (1) using the peg to locate same.
2. Glue tank covers (4) 2 off, dome(5) 2 off, safety valve(6), chimney(7) and lamp(8) into place.
3. Locate and glue smokebox door (9).
4. Locate and glue Brake Vacuum hose(10) and heating hose(11) to front footplate (these can be left until later if prefered)
5. Remove cow catcher frame (P) from fret, plus bars (J). Fold and assemble as main drawing, glue on to buffer beam on the footplate (2).
   Fit coupling (17) through buffer beam onto peg. Secure in place with washer (U) suitably fixed to peg with a blob of glue or solder. Glue steps (T) onto front face of the tank.

Note Each photo-etched unit is treated as a separate sub assembly, reference is given to the remaining cast parts where appropriate.

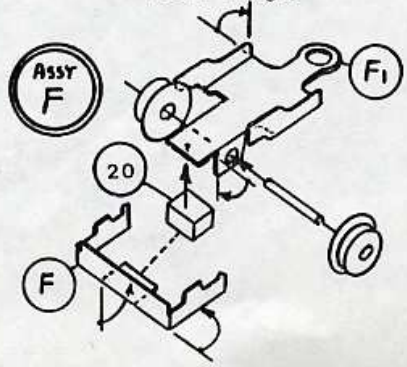
Sub Assembly A - Cab.

6. Remove the main cab etching (A) from fret. Fold the sides, valance, cab front, steps, window sill and cow catcher as shown on appropriate drawing, solder the joints where required.
   It would be advisable to fold the main body in the following order;-
   1. Footplate valance
   2. Cab side
   3. Buffer beam
   4. Cow catcher base
   5. Floor
   6. Cab steps
   7. Cab windowsill
7. Fold the cab back(B) as shown, locate and solder into position.
8. Form the curve to the bunker back(C) just below coalrail, fold and position coal rail as drawing, locate and solder into place.
9. Locate and solder front window(D) into place. Repeat with side windows (E) note these are handed (window recess towards Cab door).
10. Fold and fit window bars (G) into place.
11. Locate and glue name plate (H) to either side of the cab (could be left until after painting if prefered).
12. Bend and solder cow catcher bars(J) into place.
13. Position and glue handrails (K) into place. If desired these can be replaced with suitably bent wire. The holes in the cab side would have to be drilled for this method.
14. Insert the rear coupling (17) through the slot in the rear buffer beam, the pivot peg (18) is passed through the floor and then the hole in the coupling. This is held in position with the photo-etched washer (11) and fixed either with a spot of glue or solder.
15. Glue the brake handle (14) to the inside of the cab and the tank(19) to underside of the floor.
16. Insert and glue whistle (16) into roof (15), locate and glue roof slider (S) into place. By reversing slider a closed or opened vent can be shown.
    It is best to leave the roof loose until after painting.

Trailing Pony



Front Bogie



Assembly F - Front Bogie

Caution; although the assembly is similar for the front bogie and rear pony, certain parts fold in different directions. Close scrutiny of the drawings is advised.

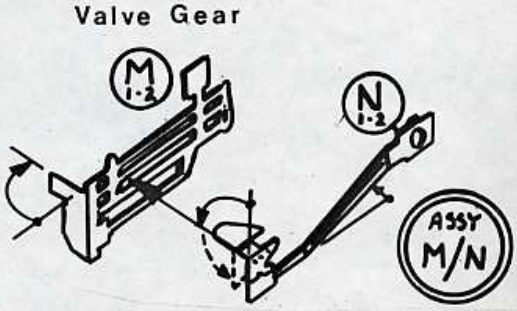
17. Remove needle points from our standard axles.
18. Remove (F1) from fret and bend the axle bearing tabs down 90° and the frame sides up 90°. Insert the axle and fit wheels, ensuring that the required back to back is obtained.
19. Fold front (F) as shown on the drawing and insert bogie weight/spacer between two sections and glue together.

Assembly R /Trailing Pony

17a. Remove needle points from our standard axles.
18a. Remove (R1) from the fret and bend the axle bearing tabs down 90° and the frame sides down 90° insert the axle and fit wheels, ensuring the required back to back is obtained.
Note; there is no spacer required for the pony.

Valve Gear M & N

20. Fold the front fixing plate 90° to side (note; these are handed). Glue to rear face of cylinder block. To ensure the valve gear does not short across the body, it is advisable to sandwich a suitably shaped strip of plastic between the side fret (M) and the cast cylinder. The tab at the rear can be treated in the same manner, or attached with double sided sellotape to the inside face of the tank sides.



Chassis Modifications.

21. Gently remove the crank pins, holding the main slide bar arm, replace with the photo-etched slide bar supplied (N), one to each side (note; these are handed), taking care not to damage the wheels with the crank pins during removal and refitting.

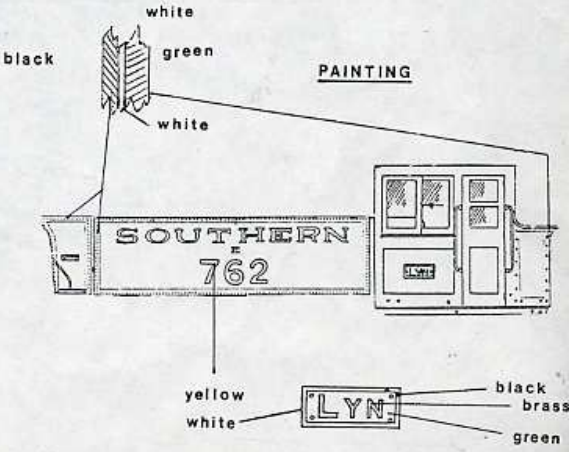
Final Assembly

22. Insert the boiler assembly through the hole in the front of the cab and glue together ensuring that they are square with one another. Note; there was a small gap between the Cab front and the tank.
Locate and glue firebox bulkhead (3) into place.
23. Fold the bulkhead pipework (L) at 90° as drawing and glue onto bulkhead (3).
24. Fit the pipework and tank support rods suitably formed from the wire supplied and glue into place as shown on main assembly drawing.
25. Paint the kit as outlined in the painting instructions.
26. Glue the roof assembly into position.
27. Attach the front bogie (Assembly F) and the rear pony (Assembly R) into the Grafar chassis using the two countersunk screws that hold the plastic pickup plate in position.
28. Locate the chassis into the two slots in the main boiler section. The chassis can be held in with Evostick or Uhu or other similar glue that can be easily removed, should you need to remove the chassis for servicing.
Note; you may need to clean the slot in the Grafar chassis to enable the bogie and pony to pivot.
29. Clip the slide bar arm onto the valve gear fret as assembly drawing M.

Painting (1935)

S.R. Livery

Bunker and tank sides also front of tanks	-	S.R. Green, panelled in black with white edging.
Nameplate	-	'LYN' in brass letters on green background with black border lined out in white.
Boiler, Domes, Safety valve, cylinders & covers Valances, cab side, front and rear plus bunker	-	S.R. Loco Green
Cab roof	-	Grey
Buffer Beam	-	Red
Smokebox, chimney, coalrails, footplate, cow catcher, Air cylinder, frames and running gear.	-	Black
Lettering and numbers	-	Yellow
Connecting rods, coupling rods and valve gear.	-	Polished steel



The above information is sufficient for most modellers needs, for more details further research may be required, see prototype notes for suggested books.

Prototype Notes

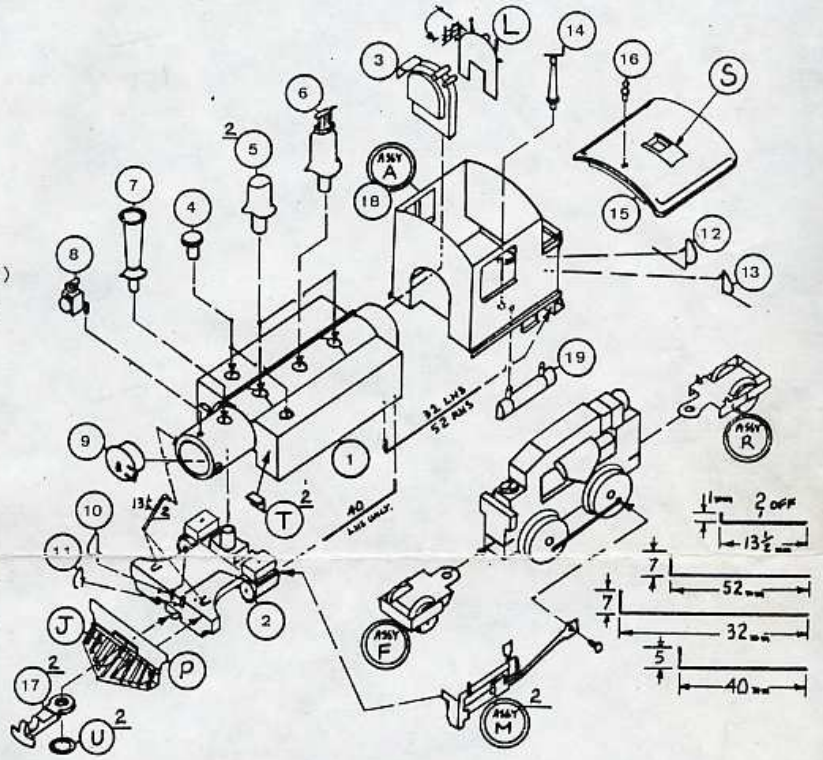
The original Lynton & Barnstaple Loco's were ordered from Manning Wardle on 24th October 1896 and delivered to Barnstaple at the end of November 1897. Just prior to the official opening of the line the Directors decided a fourth Loco was required. As no British firm could meet the required delivery date, the order was placed with the Baldwin Locomotive works of Philadelphia at a cost of £1375.00. Subsequently 'Lyn' was shipped in parts to Avonmouth and erected at Pilton Yard, where steaming took place on 23rd July 1898 and entered service four days later. For various reasons 'Lyn' was not as popular amoung the Loco crews as the Wardle Loco's were. 'Lyn' served the line quite well and was finally sold at auction for £50.00 when the line was closed down. The auction took place on 15th November 1935 and the Loco was broken up a few days later at Pilton by J. Cashmore Ltd.,

Much detail is outlined in 'Locomotives of the Southern Railway' Part 1 published by the Railway Correspondance and Travel Society. An excellent suppliment was also written by R.E. Tustin and published in the February 1954 issue of the Model Railway Constructor Magazine. Various modifications are outlined in both the above sources of information.

Parts Lists - Cast

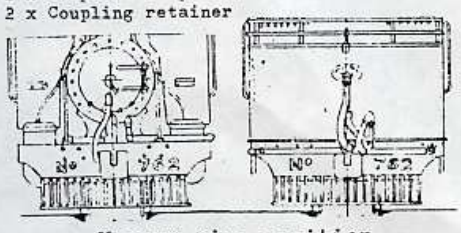
1. 1 x Boiler unit
2. 1 x Front footplate
3. 1 x Firebox bulkhead
4. 2 x Tank covers
5. 2 x Dome
6. 1 x Dome/Safety valve
7. 1 x Chimney
8. 1 x Head lamp
9. 1 x Smokebox door
10. 1 x Brake Vacuum hose (front)
11. 1 x Heating hose (front)
12. 1 x Brake vacuum hose (rear)
13. 1 x Heating hose (rear)
14. 1 x Brake handle
15. 1 x roof
16. 1 x whistle
17. 2 x Coupling
18. 1 x Coupling rear pivot
19. 1 x Tank
20. 1 x Bogie spacer

Sundries
4 x wheels
2 x axles
nickle wire
plasticard

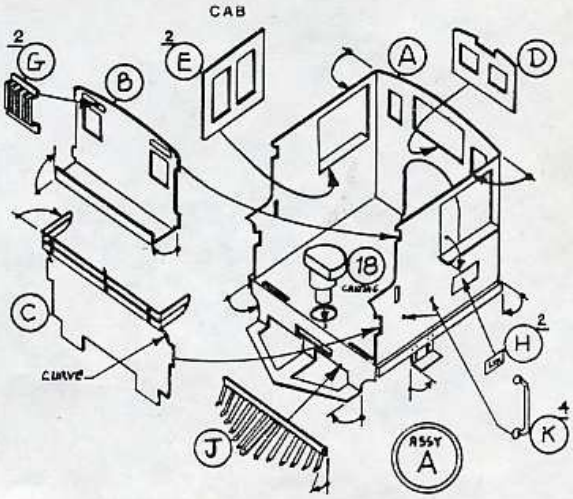


Parts List - etched sheet

A. 1 x Basic cab
B. 1 x Cab rear panel
C. 1 x Tender rear panel
D. 1 x Front window insert
E. 2 x side window inserts (handed)
F. 2 x Front bogie
G. 2 x Bars over rear window
H. 2 x 'Lyn' nameplate (+ 2 spares)
J. 2 x Cow catcher
K. 4 x Handrail (+ 1 spare)
L. 1 x Pipes etc. Interior detail
M. 2 x valve gear (handed)
N. 2 x Drive rod (handed)
P. 1 x Cow catcher frame front
R. 2 x parts rear bogie
S. 1 x roof vent
T. 2 x Steps (+ 2 spares)
U. 2 x Coupling retainer



Vacuum pipe position



This Loco is one of a large range of kits produced in N, 009, and OO. Please send 20p plus an S.A.E. for full lists.