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'00' Kits of Etched Brass with Metal details

FALCON BRASS
LLETTY DERWEN
LLECHRYD
CARDIGAN
SA43 2NL

LK54

L & Y. LMS STEAM RAILMOTOR

GENERAL : Remove parts from fret with sharp craft knife, file off remainder of retaining pip with needle file.

ASSEMBLY (Coach Part (A): Take coach sides (37) and bend inwards at 90° top and bottom slotted sections. Solder end (11) to rear of coach, the bottom "tongue" should run on top of the bent-up slotted section of coach side. Fit inner end (10) to cross-bar (19) at 90° then assemble to coach side on top of slotted section, between coach inner end and loco cab near section. (X) on diagram. Assemble other coach side. Next solder in place (inside body) bogie carrying plates (17), the position of these is found by aligning the half etched lines on carrying plates to the half-etched lines on the underside of coach sides. Bend bottom of solebars (36) to 90° and assemble to coach body. Fit near buffer beam and oval buffers. Fit roof and floor strengtheners (21) and (18). Make up and fit solebar steps (8) (38). Make up (20) to a box section and fit to rear of Loco cab section of coach assembly.

(Bogies (B) :

(1) BOGIES SHORT AXLES

With blunted point tap out rivet detail, bend side-frames to 90° and fit end stretchers to turned in tabs. Bend spring carriers to form inward facing half box section, cut off lengths of cast spring and fix in position. Fix axle box castings.

(2) BOGIES LONG AXLES WITH PIN-POINT BEARINGS

Tap out rivet detail. Remove side-frames from centre stretcher, drill-out and fit bearings. Bend side-frame tabs to 90°. Mark out two parallel lines 25mm apart on a piece of card and hold side-frames in position with the aid of plasticine. Solder end stretcher to tabs, one end only. Fit wheels and solder on other end stretcher to tabs. File centre stretcher for wheel clearance and fit to bogie side-frames making sure it is central. Fit bogie detail as per bogie (1). Assemble bogie to body with 8BA nut and bolt (not provided)

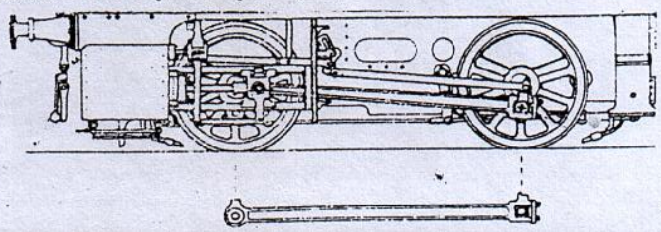
(Loco Body (C) : Take loco running plate (1) and solder balances (5) ½mm in from each edge. Fit buffer beam (35) and buffer beam overlay. Locate cab front into the two slots in running plate making sure it is at 90° (This part is a separate piece and under no circumstances should part numbers (2) be used). Solder two 10BA nuts (not provided) over holes in running plate (inner one at rear). Next solder up cab/Tank and sides (3) to cab front and running plate. The modeller may, if he wishes, strengthen up the cab/tank sides with pieces of scrap brass soldered to the inside. Solder tank fronts (33) and tank tops (6) in place.

(4). Solder smoke-box front (28) to rolled boiler (4). Locate tabs on smoke-box front into slots on running plate and when satisfied boiler is parallel to running-plate solder in place. Solder on smoke-box wrapper and smoke-box saddle supports (7). Fit cab window frames (16), cab roof (30), tank-front steps (32), water fillers (34) and foot-steps (25) with (26).

(Loco Chassis (D) : Fit bearings to axle holes and loosely screw the two frames together with the two spacers provided. Assemble the axles and wheels (we recommend Romford 14mm, tighten frames and when satisfied that all four wheels are level on a flat surface solder spacers to both frames.

Make up motor mounting bracket with a piece of scrap brass, mount motor. When satisfied with the meshing, solder into position. Assemble up side-rods and test run.

Assemble rear cylinder plate (23) so as to match cuts in chassis frames.



PART DRG. SHOWING MOTIONS. - NOT TO SCALE

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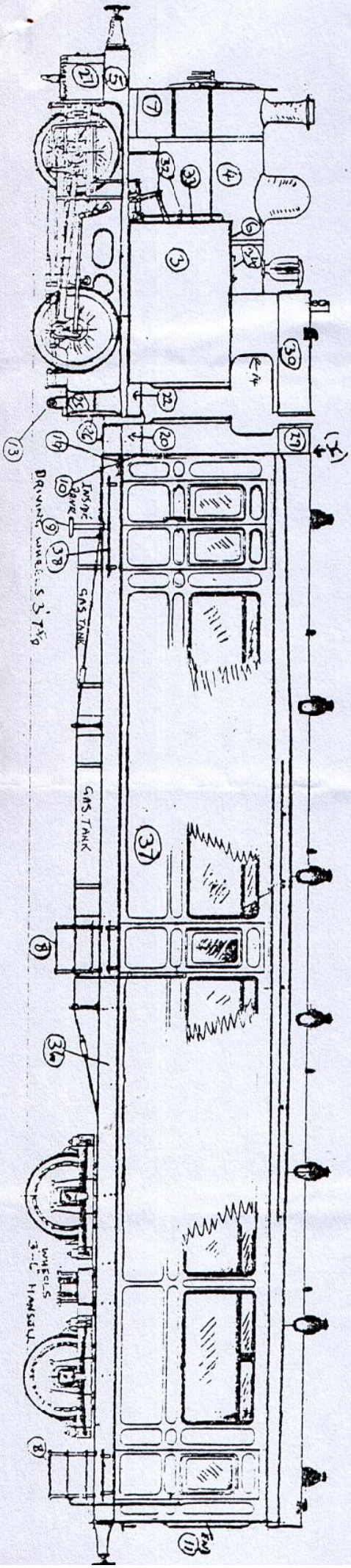

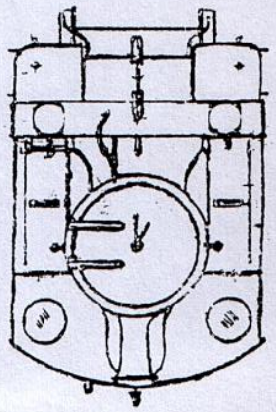

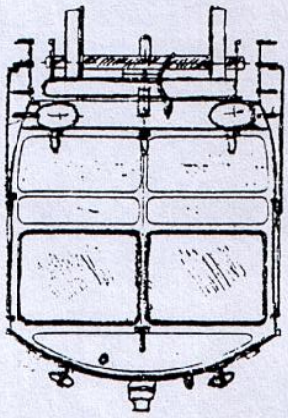

Assemble front cylinder plate (24) to front of frames ensuring both are square. Solder a piece of brass tubing between both plates so as to accept piston rod. Cut to length and fit square slide bar wire. Solder in position cylinder wrapper (27) Assemble up valve gear.

PARTS ON FRET ARE :–

B. Slide-bar Support Bracket.
D. Union Link
E. Combining Lever
F. Eccentric Rod
G. Connecting Rod
H. Washers
I. Expansion Link
J. Return Crank
K. & L. Cross Heads
M. Valve Rod
N. Reversing Lever (on Running Plate)
O. Scrap

(Final Assembly (E) :

LOCO :

Fit foot-plate floor (22). A little filing may be needed to accept whatever motor you choose. Fit local buffers, smoke-box door, boiler fittings, whistle, hand rails, reversing lever, and locate lamp irons (wire) in holes on running plate.

COACH :

Fit rear cab roof of loco (29). Cut and fit coach roof. Fit gas cylinders, gas pots, hand-rails, ventilators. Attach coach to loco with swinging link (31) using holes dependant on the tightest radius curve on your layout.

PARTS NEEDED TO COMPLETE KIT :

4 Romford 14mm Wheels
2 Axles
Romford 50:1 Gears
5 10BA Nuts and Bolts
2 3'-6" Coach Axles
Motor to choice (we recommend Anchoridge D10)

CLEAR PLASTIC & INTERIOR FITTINGS.

NOTE. AN ALTERNATIVE TO ABOVE WOULD BE POWERING BY A REAR BOGIE MOTOR UNIT. IF THIS IS FITTED THEN LEAD WEIGHT WILL HAVE TO BE ADDED TO THE BOILER.

FOR REF. PHOTOS SEE :- BRITISH RAILCARS 1900 TO 1980

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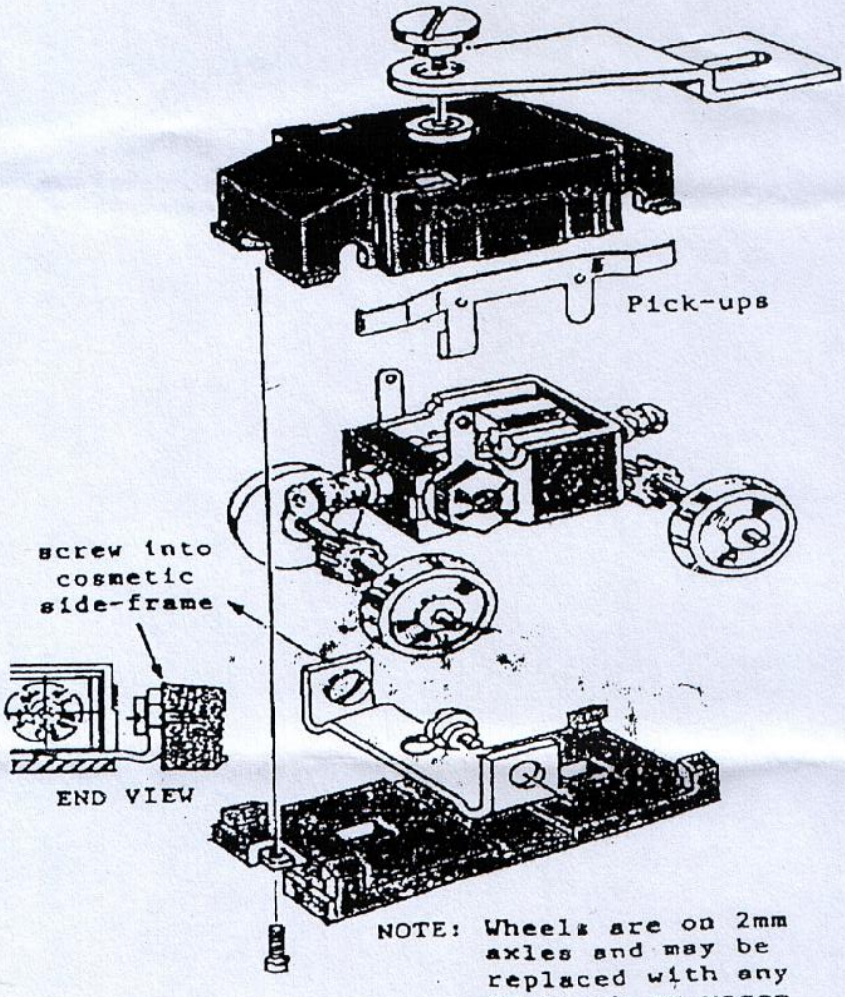
TENSHODO MOTOR BOGIE INSTRUCTIONS

Diagram to show construction and fittings

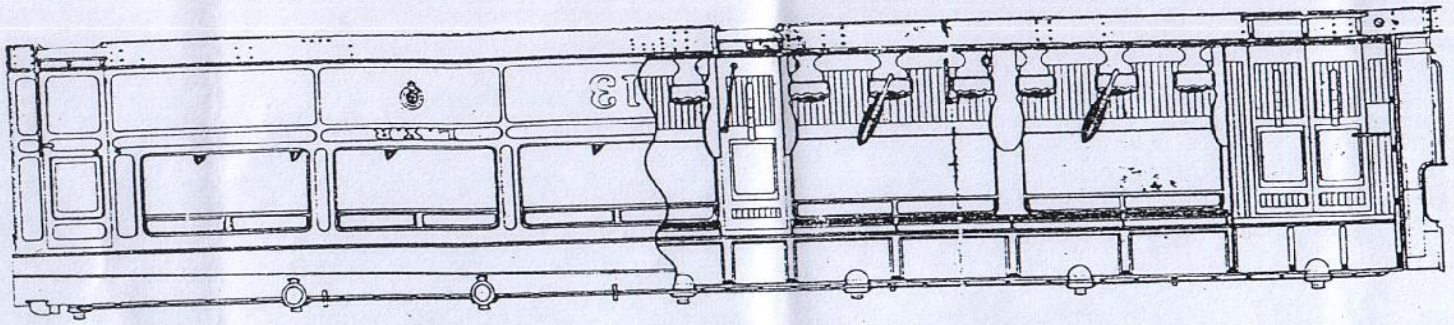


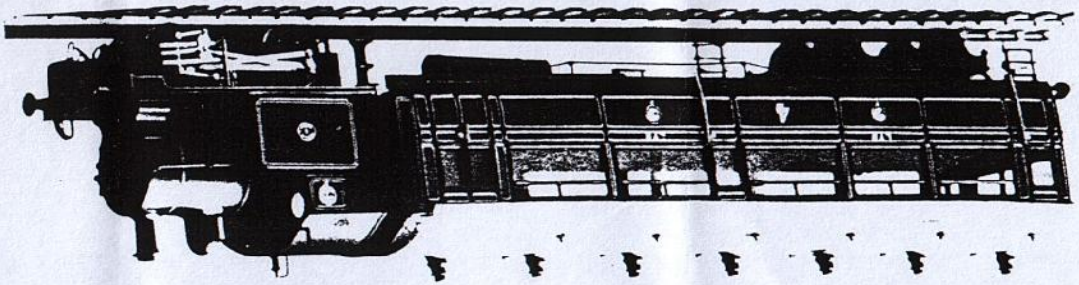
NOTE: Wheels are on 2mm axles and may be replaced with any UK coach or wagon wheels

PLEASE NOTE!-

SHOULD YOU BE CHANGING THE WHEELS - YOU MAY HAVE TO REPLACE THE AXLES AS WELL.

IF YOU HAVE ANY QUERIES PLEASE CONTACT OUR 'HELPLINE'.





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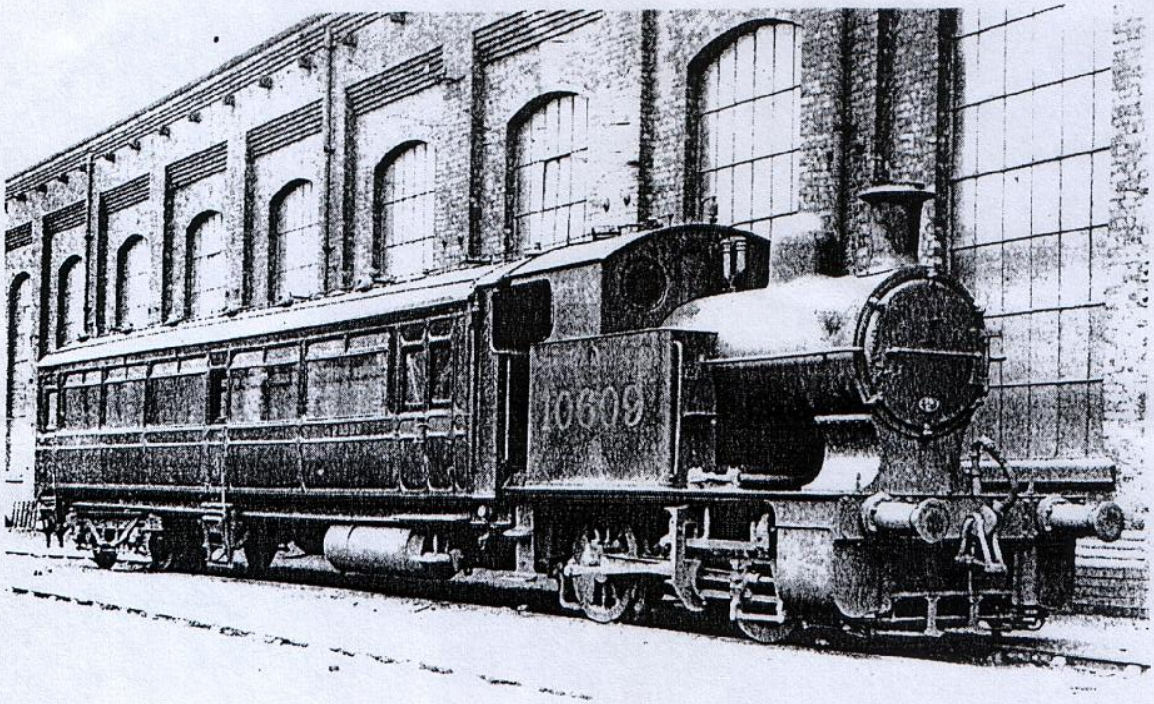

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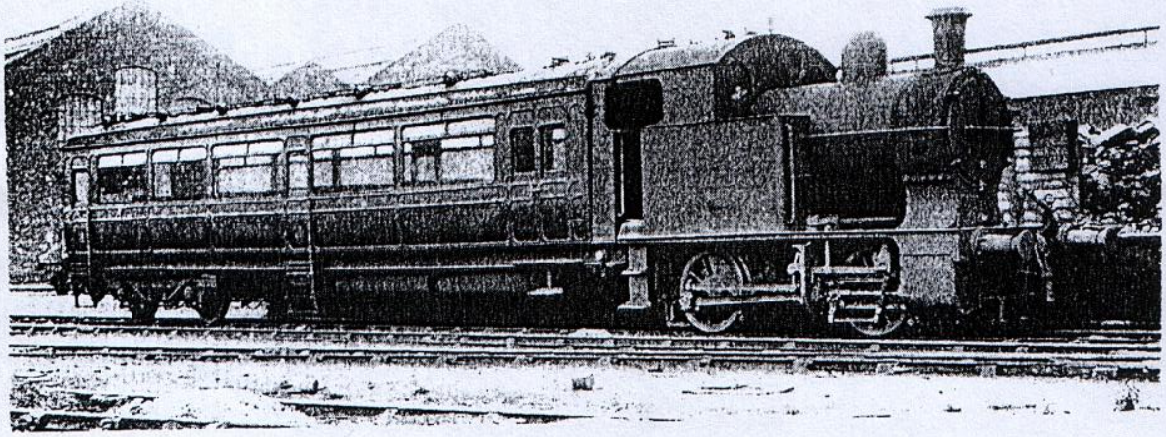

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