

BR (SR) Class 71 Electric Loco

These handsome electric locos were introduced from 1959, primarily for the Kent coast electrification. Rated at 2,550 hp, they could produce peak outputs in excess of 3,500hp,- more powerful than a 'Deltic'! When introduced, livery was a slightly lighter version of BR green, giving way to rail blue during the late '60's.

Ten of the class were converted to electro-diesels, becoming class 74, the 15 survivors remaining in service into the late 70's. No. E5001 is preserved by the NRM and is passed for main-line running. It may occasionally be seen at the head of the "ORIENT EXPRESS" all-pullman train.

BODY ASSEMBLY

Start by cleaning up any moulding flash around part lines & window openings, then fill any visible air bubbles in the resin mouldings using car body filler or 'Milliput'. Now is the best time to drill out all the holes for handrails, detail fittings and securing screws, using the sizes shown on the assembly diagram. Having completed this work, it is now the best time to paint the body & internal detail parts; we recommend a thorough scrub in hot water & detergent, followed by lightly keying the surface with fine wet & dry paper or wire wool. A final wipe with paint thinners before applying primer also helps.

We suggest that you use 'Superglue' for fitting small parts to the resin body, with epoxy or hot-weld adhesive for the larger components. Fit the glazing to the body & window frames before adding the internal details, but after you have finished with the superglue, as this can cause misting. The cab side windows only fit in particular places;- there are some little marks engraved into the inside of the body, which correspond to similar marks just visible below the window vac-forms. Otherwise, the body details can be fitted in any order.

BOGIE ASSEMBLY

The principle behind the bogies is to use the un-powered on as the live pickup for the motorised one, eliminating the friction inherent with spring types. It is necessary to have wheels with one side shorted out to the axle; you can do this by drilling a .7mm hole into the plastic insulating bush of the Romford 16mm wheel & inserting .7mm wire, or you can now purchase 1-side live wheels from Romford with nickel tyres, these will save trouble but cost a little more!

Begin by taking the bogie frame (10) & trying the motor, wheels & gears in place. Adjust the gear mesh by scraping or filing small amounts from the depressions in which the end bearing housings of the motor sit. Having achieved a good mesh, remove the mechanical parts & fit the sideframes(11) in place, ensuring they are square. Then fit the steps(12), cutting off opposite ends to make them handed (see diagram). It is easiest to paint the bogie at this stage. Now refit the motor & wheels, ensuring that the live wheels are all the same side, & add the baseplate(13) using screws S. Now fit the motor retainer(14) with TWO screws S, making sure that you have turned the top brush of the motor so the tag is accessible. Add the pivot plate, with washer(16) & screw S. You now only have to link the washer on the unpowered bogie to the upper motor tag with a length of fine electrical wire, & screw the pivot plates into the body in order to track test. Fit the detail components to the bufferbeams as desired, & drill the rear spigot 2mm to join this assembly to the bogie; For a more accurate representation of the real thing, the buffer beams may be mounted under the body, use a good adhesive, & try to provide a degree of reinforcement with a strip of plasticard or similar. Dapol type couplings will slot through the buffer beams & fit comfortably with the screws M either way.

PANTOGRAPH You will need to acquire a suitable diamond pattern pantograph assembly; East Kent Models of Whitstable or Howes of Oxford are probably the best places to enquire.

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SHORTENING OUT ROMFORD
16 MM WHEELS. (1 SIDE ONLY)

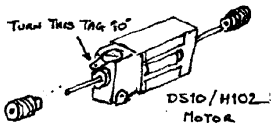
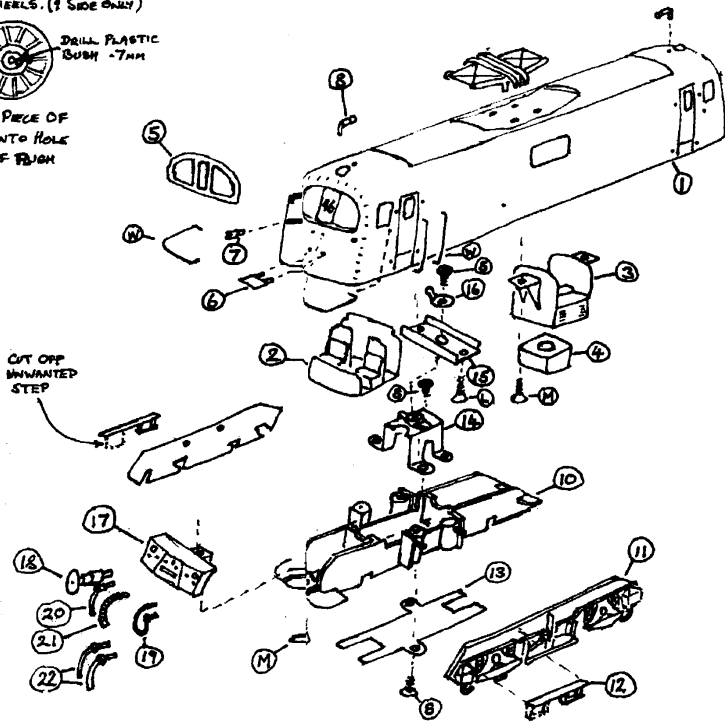


FORCE A PIECE OF
#7 WIRE INTO HOLE
& CUT OFF FLUSH

CUT OFF
UNWANTED
STEP

DRILL SIZES

HANDRAILS - 4.5MM
H SUPPORT 1MM
WHISTLES 1MM
FR. STEPS 1.2MM
B/BEAM HOLES 1.2MM
BUFFERS &
SCREEN HOLES 2MM



CLASS 71 PARTS LIST

1. BODY MouldING
2. CAB INTERIOR (2)
3. CENTRE DETAIL
4. BALLAST WEIGHT
5. WINDOW SURROUND (2)
6. FRONT STEP (2)
7. HANDRAIL SUPPORT (4)
8. WHISTLE (2)

10. BOGIE FRAME (2)
11. BOGIE SIDE (4)
12. FOOTSTEP (4)
13. BASEPLATE (2)
14. MOTOR RETAINER (2)
15. PIVOT PLATE (2)
16. TAG WASHER (2)
17. BUFFER BEAM (2)

19. JUMPER CABLE (2)
20. HOSE (2)
21. HEATING PIPE (2)
22. BRAKE HOSE (4)

SCREWS:

- S: SHORT (10)
M: MEDIUM (4)
L: LONG (4)

GLAZING

PARTS REQUIRED

TO COMPLETE:

- H1024/DS10 MOTOR
- ROMFORD 16MM SPACED BOGIE WHEELS * (4 AXLES)
- ROMFORD 27:1 1.5mm WORM, 2mm AXLE (2 SETS)
- HANDRAIL WIRE
- PICKUP CABLE

* THESE NOW AVAILABLE WITH
NICKEL TYRES & 1 SIDE LIVE