

METRO MODELS

Instructions - EFE 'OO' scale 1938/1959 & 1962 stock London Underground tube stock models.
Please read and retain for future reference.

****IMPORTANT** BEFORE USING YOUR MODELS, PLEASE READ THE BOLD RED TEXT which applies only to motorised models.**

Unpacking & operating your model:-

- Remove your model from the packaging
- Remove the 2 transit screws that secure the car to the plinth. Use a small cross head screwdriver to remove these screws from the underside of the black plastic plinth
- Place your car onto suitable OO/HO scale track, apply power (12v DC @ 1amp or less)
- Use the metal coupling(s) provided to couple each car together. Hook the coupling onto the plastic bogie hooks. Ensure that cars are coupled together 'male' to 'female' to prevent them locking together & de-railing, especially when running over curves/points.
- A minimum track radius of 17" is required, the cars will not operate over a smaller track radius without the risk of derailment. The wheels sit underneath the interior seating units which, like the prototype, limit the distance by which the bogie/wheels can move horizontally when on points or on curved track.
- Do not run your motorised model for long periods at high power (over 5 minutes) or leave them running unattended. The miniature Tenshodo motor bogies are not designed for extended continuous use.
- If your train derails at certain locations on your track, check whether the 'shoes' on the bogie sides are fouling track side details. If they do you may need to cut off each of the plastic pick up shoes moulded to the bogie side-frame shoe beams.
- The centre trailer car does not have the bogie side grey coloured shoe beams or shoes fitted, this is per the prototype. In reality, the trailer car is exactly that, it is a car that has no traction motors as it is purely a trailer so it doesn't require any traction power pick up shoes.



x laser cut steel metal coupling(s) is/are enclosed for modified/motorised sets.

Your EFE tube train model is manufactured as a static 'OO' scale adult collectable model. With modification, they can be motorised & the bogies/wheels replaced so that they can be used on 'OO' scale model railways. We can undertake this modification work for you or we can supply you with our DIY motorising kit (EFE100) & DIY bogie upgrade packs (EFE106). See website for further details.

All motorised model railway trains, such as those produced by major manufacturers like Hornby/Bachmann, have pin-point axles fitted to all wheels as standard to ensure smooth free running. Being manufactured as static models, the EFE cars have poor quality non pin point steel wheels with poor running qualities. As a result, all trailing bogies/wheels should be replaced on motorised models.

Trains operated as 2 car units on the Isle Of Wight & in up to 8 car formations in London Underground service. 4 different car types are produced in model form:-

Driving Motor car 'A' / Driving Motor car 'D' / Trailer car / Motor Trailer car.

Suggested train formations for model rail purposes:

4 car - Driving Motor car (DM) 'A' end, Trailer car (TR), Non Driving Motor Car (NDM), DM car ('D' end)

3 car - Driving Motor car (DM) 'A' end, Trailer car (TR), DM car ('D' end)
(3 or 4 car motorised sets should be fitted with 2 motors either within a centre car, wired together to provide maximum traction or a single motor in the rear bogie of each DM car)

2 car - Driving Motor car (DM) 'A' end, DM car ('D' end)
(2 car motorised sets should have a single motor fitted into one of the DM cars)

Motorised cars should only be operated on a suitable 12v DC controlled power supply, rated at 1 amp or less.

Cars motorised by us are dismantled & modified to allow us to make the alterations necessary to fit the motor(s).

Each model is then track tested, so as a result you may notice slight signs of usage.

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Motor removal & maintenance:-

Remove the train car body moulding from the die-cast chassis by unscrewing the cross-headed screws visible on the underside of the chassis at each end of the car. (DM cars have 3 screws, Trailer/NDM cars have 4 screws)

The motor unit fitted is a high quality Japanese made Tenshodo WB26B, 5 pole SPUD, motor bogie unit. This is a reliable and virtually maintenance free unit requiring only the occasional cleaning of the wheels/pickups with a suitable model railway cleaning fluid/brush.

The nylon plastic gear wheel located on each of the axles should be very sparingly lubricated with a tiny drop of fine model rail loco oil as required depending on usage. Remove the wheel-sets by unscrewing the cross-headed screw located at one end of the underside plastic base of the motor bogie. The base can then be removed by sliding it in the direction of the arrow before unclipping it from the motor housing

Spare parts, including replacement wheels/gear wheels, are available from us.

If you wish to display the static model a clear plastic packet taped to the underside of the plastic track base plinth contains two plastic coupling bars, a plastic 'H' shaped moulding and a black metal 'thumb screw'.

Couplings; Two are provided. A short coupling that enables you to connect the cars up to each other in prototypical fashion for display only & a longer coupling for use where you have tighter curved track and/or point-work that will not allow you to operate the train with the short coupling. Fit the required coupling bar with the inter car cable moulding detail facing upwards. Take care when fitting the coupling bars to the bogie coupling hooks as they are easily broken. It is advisable to slightly open up/drill out the holes at each end of the coupling bar to allow it to fit more easily onto the bogie coupling hook.

Thumb screw; to 'lock' your train car into place on the plastic plinth & to make it easier to remove the train car from the plinth if required.

'H' piece; to join the plastic track plinths together alongside each other if you wish to display your train mounted on multiple plinths.