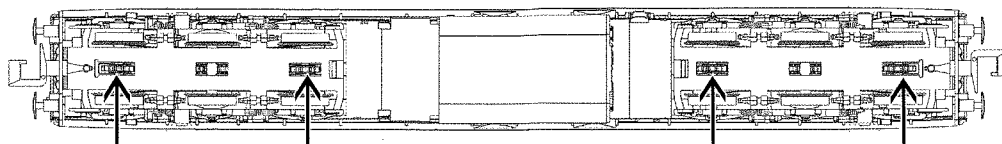


THIS MODEL NEEDS LIGHT OILING BEFORE USE:

Whilst this model has been lubricated at the manufacturing stage, it is required that you add a small amount of oil directly onto the exposed gears on the underside of both bogies. There are several brands of synthetic oil available on the market such as Dapoil, your local model shop will be able to advise you.



Normal Oiling points into exposed gears without removing body

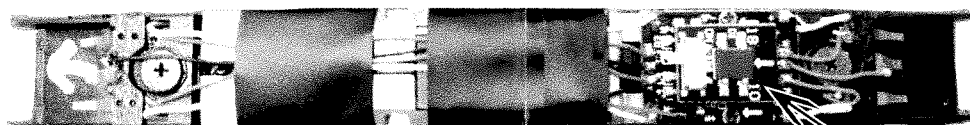
Failure to oil may affect any warranty claim. Please use caution when applying oil as some types can cause damage to the plastic the model is made from. If oil touches the body then immediately wipe off using a non-fluffy cloth. No part of the motor requires lubrication. Do not operate the model on track that is laid onto carpet as the dust and fibres will impair the mechanism.

DC OPERATION:

If you wish to run the model on standard DC – then do nothing. Our PCB will automatically recognise that you have DC controller and will allow operation at normal DC parameters. **Important Note:** This model should only be used with a DC controller designed for model railways rated at 12V DC nominal voltage. When (optionally) fitted with an appropriate DCC decoder it may also be used with a compatible DCC control system. The rear light switch is accessible by removing the exhaust port cover. You can turn the rear light off by pulling the DIP switch to the 'OFF' position.



DIP switch



DC Blanking Plug

DCC OPERATION:

Our model is fully DCC ready. The model is fitted with a DCC board which features a Next 18 plug pre-fitted with a 'blanking plug'. Carefully remove the blanking plug and insert the decoder of your choice. Before converting to DCC please ensure that your decoder will fit the model, as some decoders are large and could have a thick protective outer shroud. To expose the PCB, simply pull the body away from the chassis using finger pressure. Fit your decoder and programme as normal. Reclip the body.

We have designed this model to have independent control of front and rear lamps. For best operation, we recommend a 4 function (or greater) decoder is fitted (for example a 6 function Dapol Imperium Next-18) to your model. If you have purchased the Dapol factory fitted decoder it has been fitted with a pre-programmed Imperium decoder (Please refer to separate DCC operation instructions supplied). If fitting a decoder (including a non-factory fitted Imperium) you will need to consult the decoder manual to correctly configure the decoder for operation of the locomotive lighting.

For reference, the model's lighting assignments are below:

Decoder output	Front light (FLf)	Rear Light (FLr)	AUX 1	AUX 2	AUX3	AUX 4
Lighting	Front white lamps	Front red lamps	Rear white lamps	Rear red lamps	No connection	No connection