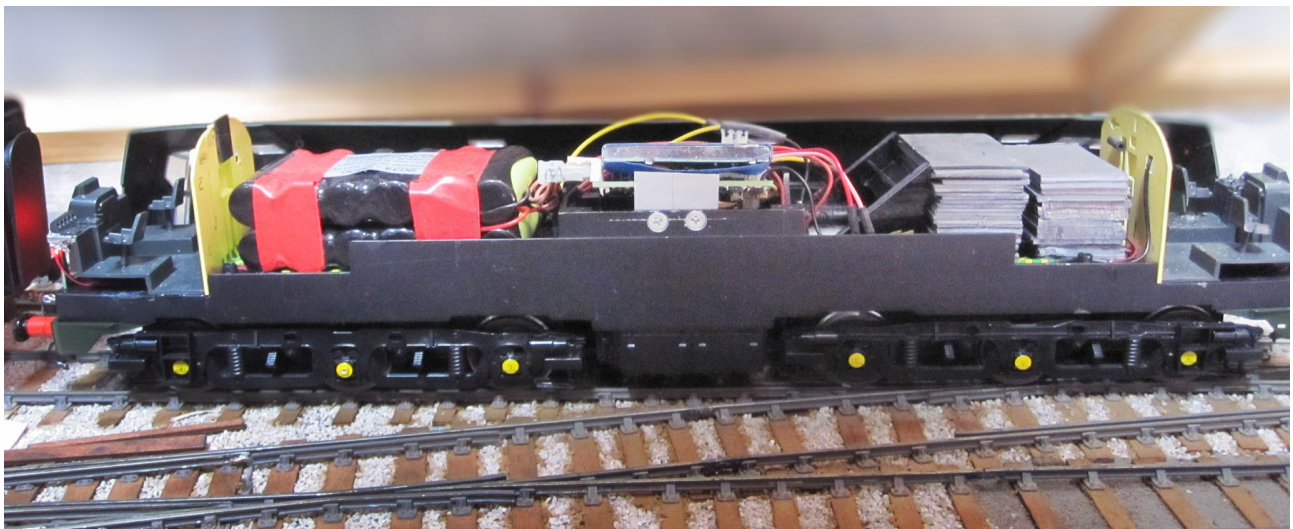


## Brush Type 2 (Class 31) Installation: what happened next.

Having fitted Red Arrow radio to the unmodified Heljan model the exercise proved two things; that it would fit and perform in the model and that to get the best out of the control system an efficient transmission is essential.

As delivered, with the space available there was not much room for batteries, the space permitting the capacity of the battery to give 40 minutes running time.

In the 21<sup>st</sup> century worm and pinion drives are very inefficient and in our opinion a very good model is let down by an archaic transmission system. Out went the two motor bogies and in came one powered and one unpowered ABC bogie units using a 6 watt Maxon motor.



The motor is underneath the adhesion weight at the right hand end. There is now room for a 14.4v 2.1 amp/hour battery and with a running current of about 100mA. There is about 18 hours of running time.

Not the cheapest of conversions but from the remote control perspective it now performs as it should. The standard test load is 9 Bachmann brass coaches each weighing in at 1kg. On a sharp curve on a gradient it will slip but the motor does not stall, a bit more lead would assist!