



Class 491/438 4-TC Unit Owner's Information

Welcome

Many thanks for purchasing one of our **Bachmann Branchline** Class 491/438 4-TC Units. A lot of care was taken producing your model and we hope you enjoy it for many years to come.

Please note: This model has been designed to run on curves of **no less than 2nd Radius** (438mm). We recommend that you don't use anything smaller as this may result in the model derailling.

1. Accessories

Although our models are highly detailed and ready to run straight from the box we also supply optional accessories to be fitted by the owner if they wish. Some of the accessories should only be fitted for static display as they may affect coupling or running quality. These parts will be labelled as such below.

Please note: PVA based adhesive should be used for the fitting of accessories.

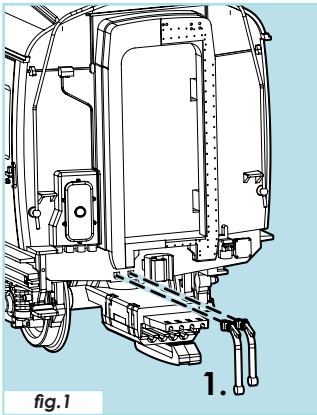


fig.1

1. Air Pipes - For static display only.

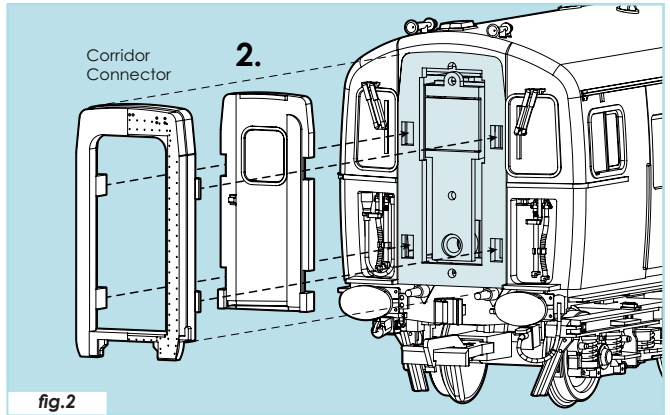


fig.2

2. Spare Door

2. Arrangement of Cars

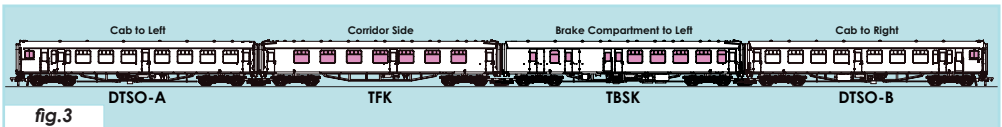
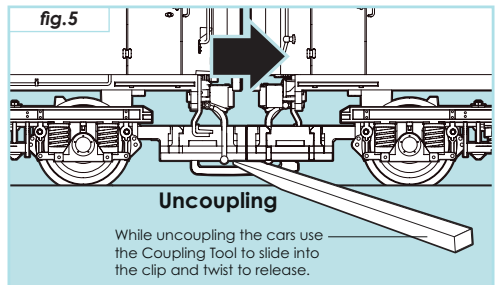
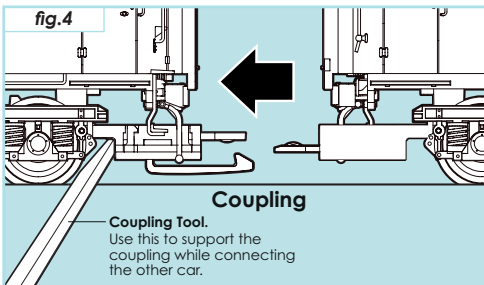


fig.3

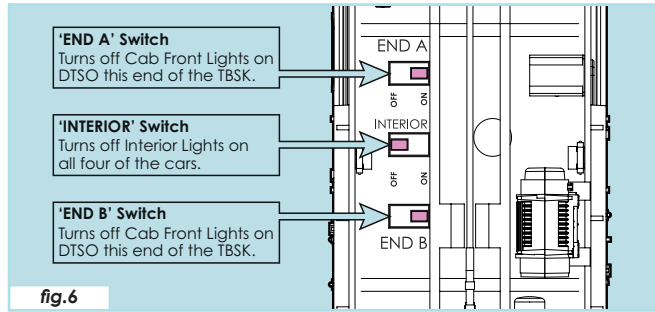
The couplings fitted to your 4TC will restrict the order they can be assembled to a certain extent, however the centre cars can be assembled in the wrong order. This won't effect their running quality but to be prototypically correct the brake end of the TBSK should be in the centre of the assembled unit. Please refer to **fig.3** above for guidance, this has been illustrated with the the TFK to the centre left with the corridor side facing towards you.



3. TBSK Light Switches.

On the underside of the TBSK car you will find three switches labelled **END A**, **INTERIOR** & **END B**. These three switches allow you to control the lighting of your 4TC unit, see **fig.6** for details.

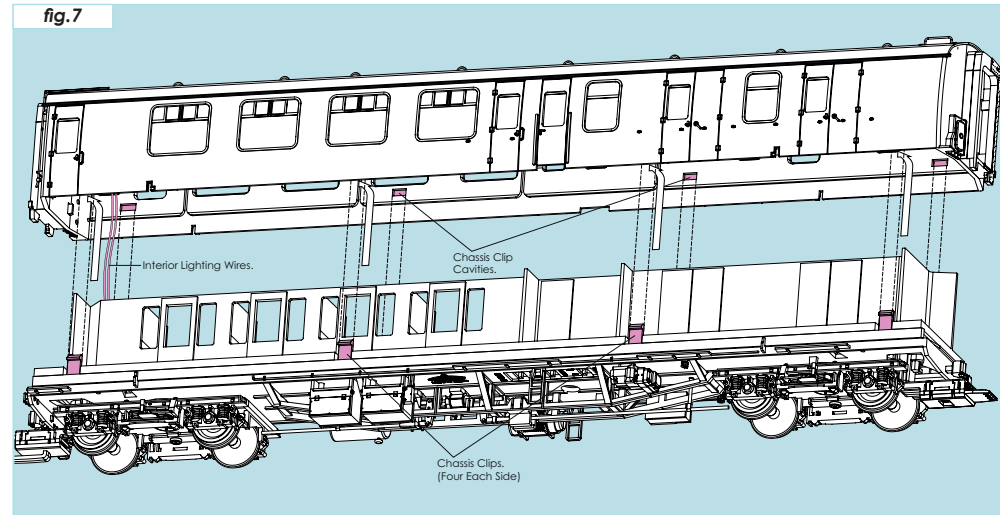
If you have fitted a 21Pin DCC Decoder and are operating your model railway with a DCC controller these functions will be available via your handset without having to use the switches on the underside of the car.



Please note: If these switches are in the 'off' position when using DCC control these functions will be unavailable.

4. DCC Decoder - Fitting a 21 Pin DCC Decoder

Digital Command Control (DCC) allows for greater functionality and control over the models on your layout: such as the simultaneous control of speed & direction of multiple Locomotives and enables the use of DCC controlled points and other DCC Decoder fitted accessories. DCC also allows the addition of DCC Sound which brings a whole new level of realism to your model railway.

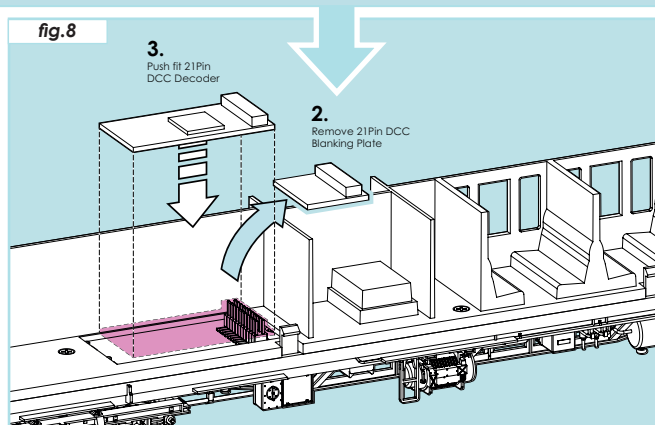


1. Firstly remove the body shell of the TBSK car. This is held in place by four Chassis Clips on each side of the car. Gently ease the sides of the body shell out to release it from these clips and slide the body shell off. (**fig.7**)

2. Remove the 21Pin DCC Blanking plate.

3. Push fit your 21Pin DCC Decoder.

Please note: Take care when removing the bodyshell, there are two wires connecting the chassis to the lighting PCB in roof. (**fig.7**)

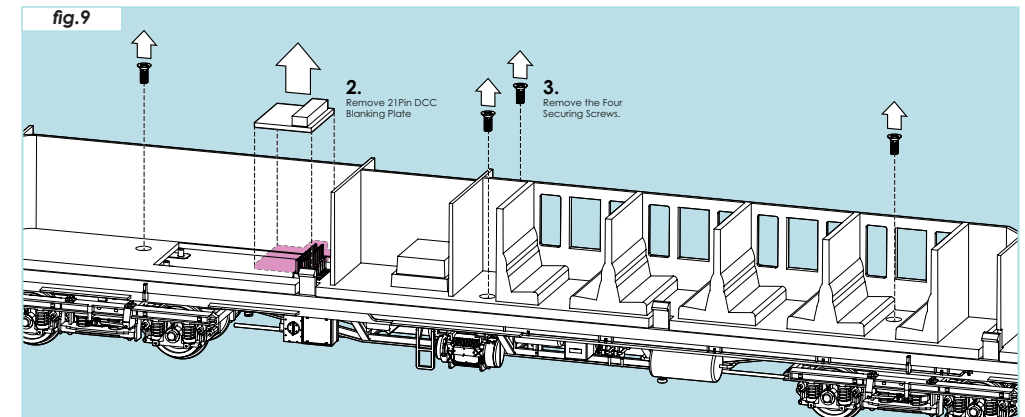


5. DCC Sound - Installing DCC Sound

The following equipment is required for DCC Sound.

- 1 x 21Pin DCC Sound Decoder (pre-programmed with the relevant sound file of your choice).
- 1 x 10 x 15mm Speaker.

Please note: It's recommended that the DCC Decoder and Speaker are both from the same manufacturer and the speaker specifications are compatible with the decoder. Please consult your retailer for advice.



1. Firstly remove the body shell of the TBSK car as shown in **fig.7**.

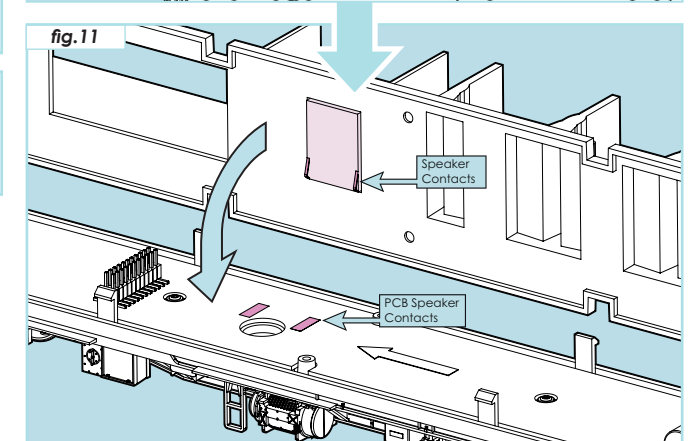
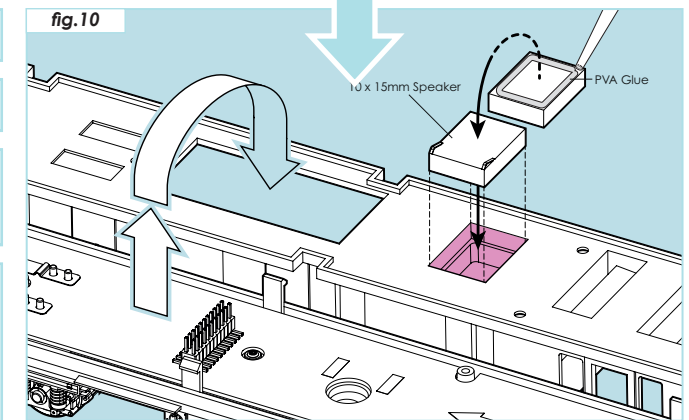
2. Remove the 21Pin DCC Blanking plate. (**fig.9**)

3. Remove the four screws that secure the interior to the chassis and remove the interior. (**figs.9 & 10**)

4. If your speaker does not come with a self adhesive frame then use a thin bead of PVA glue around the upper edge of the speaker. (**fig.10**)

Place the 10 x 15mm speaker into the speaker mount on the underside of the TBSK interior.

Please note: the speaker contacts must be on the corridor side of the interior so they align with the speaker pads on the PCB when re-assembled. (**fig.10 & 11**)



6. Spare Parts

Selected spare parts are available from the Bachmann Europe Service Department. For further information and enquiries please contact the Service Department directly by email on service@bachmann-europe.co.uk or by phone **01455 245575**.



Bachmann Europe Plc
Moat Way, Barwell, Leicestershire, LE9 8EY, England.
www.bachmann.co.uk