



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

Welcome

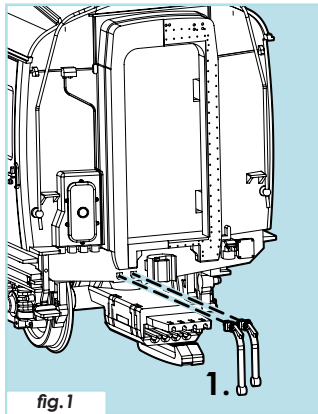
Many thanks for purchasing one of our **Bachmann Branchline** Class 491/438 4-TC Units. A lot of care was taken producing your model and we hope you enjoy it for many years to come.

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.

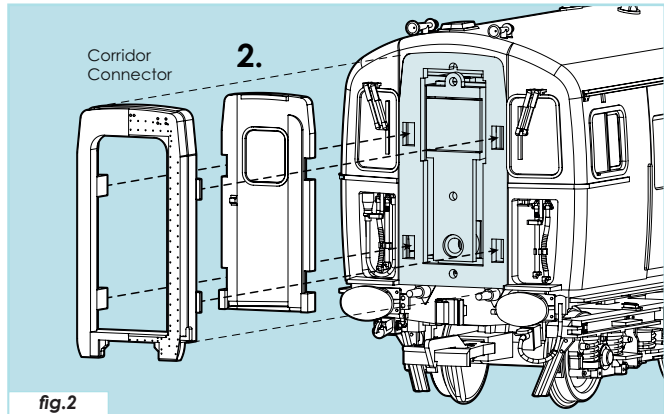
1. Accessories

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.

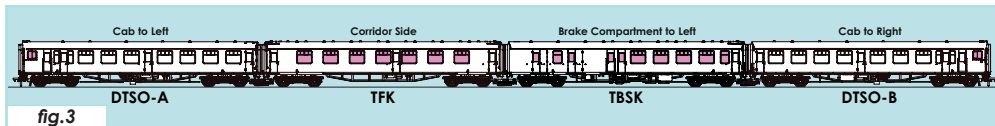


1. Air Pipes - For static display only.

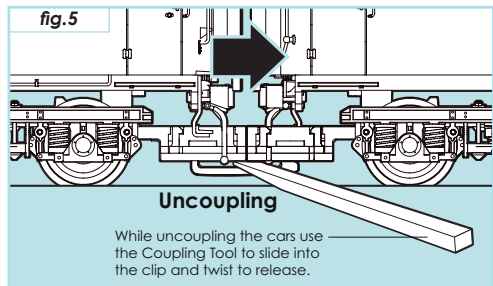
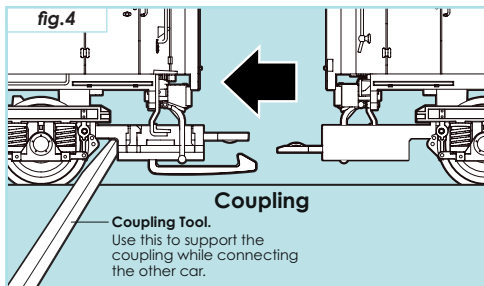


2. Spare Door

2. Arrangement of Cars



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.



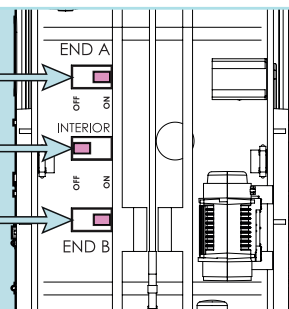
3. TBSK Light Switches.

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.

- 'END A' Switch**
Turns off Cab Front Lights on DTSO this end of the TBSK.
- 'INTERIOR' Switch**
Turns off Interior Lights on all four of the cars.
- 'END B' Switch**
Turns off Cab Front Lights on DTSO this end of the TBSK.

fig.6

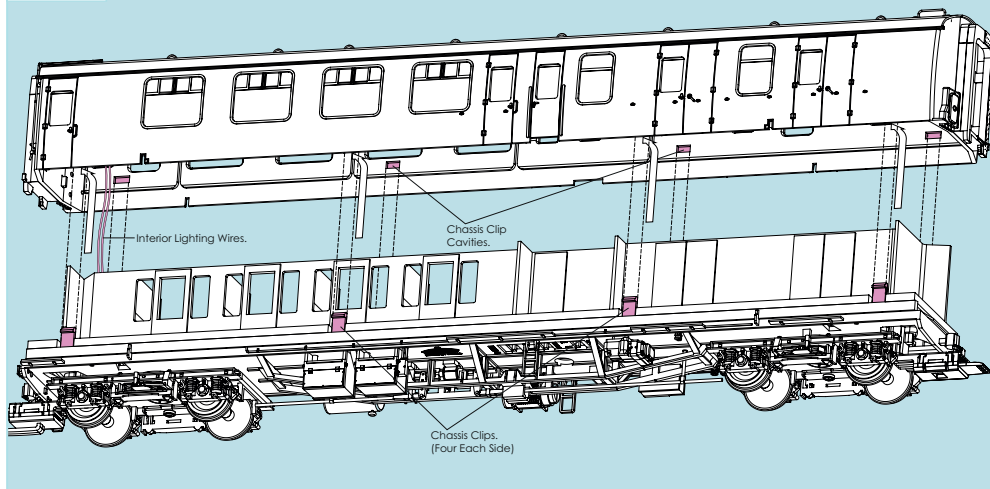


Please note: If these switches are in the 'off' position when using DCC control these functions will be unavailable.

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.

fig.7



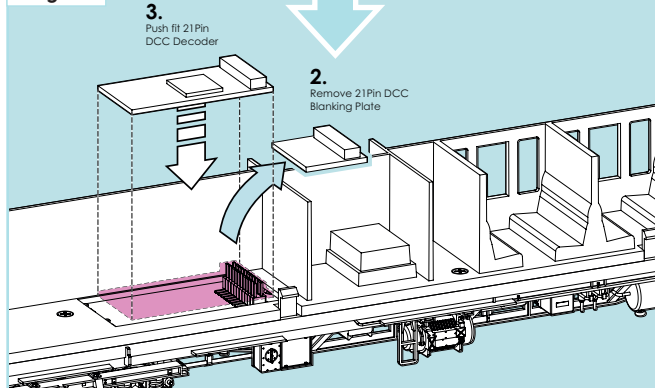
1. Firstly remove the body shell of the TBSK car. This is held in place by four Chassis Clips on each sides of the car. Gently ease the sides of the body shell out to release it from these clips and slide the body shell off. (**fig.7**)

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**)

fig.8



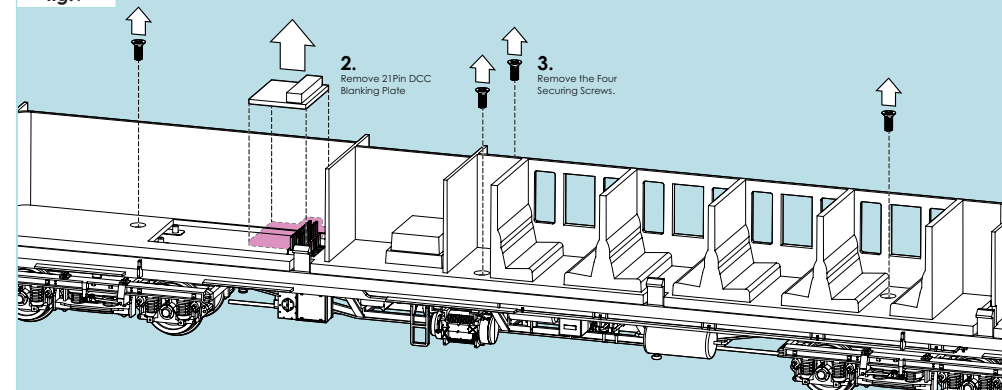
5. DCC Sound - Installing DCC Sound

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.

fig.9



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.

fig.10

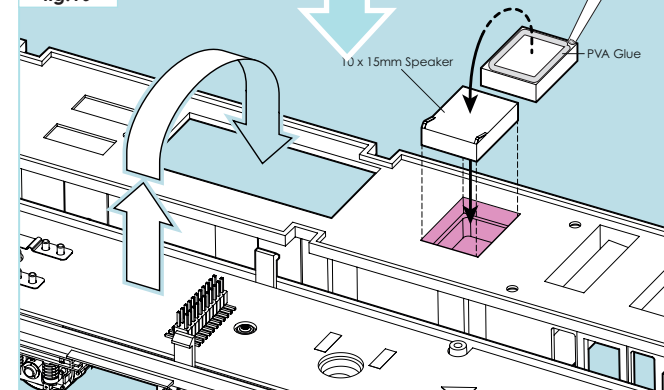
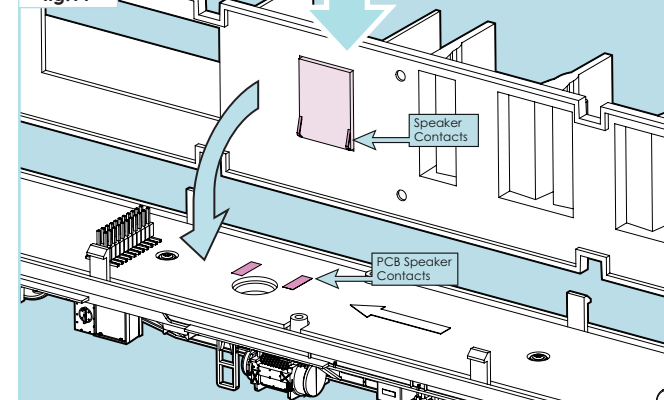


fig.11



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 841756**.

7. Product Warranty

This product has a Warranty for 12 months from the date of purchase against faulty materials or workmanship subject to the following conditions. During this period such defects that occur will be repaired or defective parts replaced free of charge.

1. This Warranty applies only if the item was purchased from an authorised retailer of Bachmann Europe plc ('Bachmann') within the European Union / EEA. This Warranty does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage. The Warranty is offered as an additional benefit and does not affect your statutory rights as a consumer.

2. For claims under this Warranty, the product must be returned to Bachmann at the owners expense and risk directly to Bachmann Europe plc, Moat Way, Barwell, Leicestershire LE9 8EY with evidence of the purchase date in the form of retailer receipt/invoice accompanied by a letter or Service Request form setting out the date and place of purchase, giving a brief explanation of the problem that has led to the claim. It is essential that the claim reach the above address on or before the last day of this Warranty period. Late claims will not be considered.

3. This Warranty is only available to the original retail purchaser of this product and is non-transferable.

4. The Warranty does not extend to cover damage resulting from misuse or careless handling, accidental damage, wear and tear, or use on a voltage supply other than that stamped on the product.

5. The Warranty may be considered void if repairs have been attempted other than by Bachmann staff.

7. The Warranty is on the original product in its entirety and does not extend to individual components removed from the product. In respect of train sets the warranty applies to motorized units and controllers only.

8. If Bachmann chooses to replace a product it will be with the nearest appropriate model of its choice.

9. Bachmann reserves the right to decline service to any model that has been fitted with a decoder after manufacture.

10. Bachmann will not be held responsible for damage to or loss of an after market decoder fitted to a model submitted for service under the Warranty.

11. The fitting of a Bachmann decoder with a current Warranty shall not be deemed to change the position regarding a product that is otherwise outside its own Warranty. It may be necessary to change decoder settings during service.

12. Bachmann's liability under this Warranty will in no case exceed the price paid for the product as originally manufactured.



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