

Please read before using this train set



## N Scale DCC Train Set Instruction Sheet

### Safety

Thank you for purchasing this Graham Farish train set, which we hope will provide endless hours of entertainment. Your Farish set is designed to last for years, provided it is handled and used with reasonable care and the instructions followed. **Please retain these instructions for future reference.**

Graham Farish Train Sets are not suitable for children under 14 years because of small parts, which may present a choking hazard. This product should be used under adult supervision. Some components have sharp edges. Handle with care.

The transformer is not a toy. Check that it is the correct voltage for your mains electrical supply. The transformer should be examined regularly for damage to the casing, plug pins and cables. In the event of such damage, discontinue use and replace. The train set must only be used with the recommended transformer as supplied.

The train set must not be connected to more than one of the recommended power supplies. The output terminals of the transformer must not be connected directly, or indirectly, to the output of any other circuit derived from a transformer or mains power supply. Disconnect the transformer from the mains when not in use.

Before cleaning any parts, disconnect the transformer from the mains electricity supply. Do not use liquid for cleaning. **Please refer to the cleaning and maintenance section of this leaflet.**

### Train Set Assembly

Your Graham Farish train set comes with a list of contents. Please check this to ensure you have all the parts you need before starting.

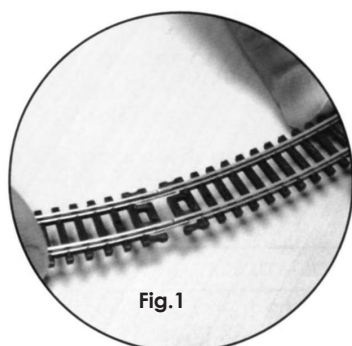
Decide where you want to lay the track. This should be a firm flat indoor surface or table top. A proper base board for the track is the best solution. A base board can be constructed using 50mm x 25mm timber for a softwood frame, covered with a suitable board. The track can be lightly pinned (using suitable track pins) to the baseboard. Do not lay track on the carpet, because fibres may become trapped in the moving parts of the train.

Take great care when assembling the track sections. Incorrect joints will cause derailments and/or interruptions to the electrical contact. All the track sections are fitted with push fit clips known as "fish plates". It is best to assemble each section on a firm level surface. Take care that the end of each rail each has engaged into the corresponding fish plate when pushing sections together (**Fig.1**). If the joints between sections are not aligned double check that the fish plates are correctly positioned (**Fig.2**).

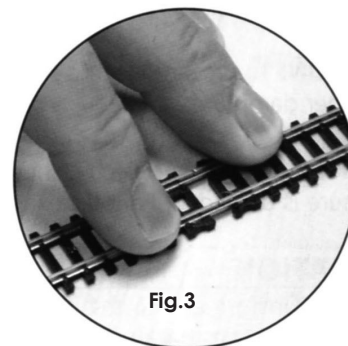
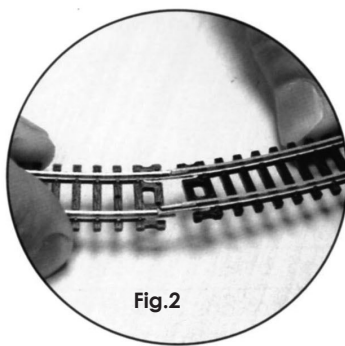
Finally, check that all the track sections are secure, and that there are no distortions along the length of the track. Do this by lightly running your fingers over the top surface of the rails (**Fig.3**).

Any problem with track connections can be corrected by carefully manipulating the join with a pair of small pliers to ensure perfect alignment.

**CORRECT ✓**

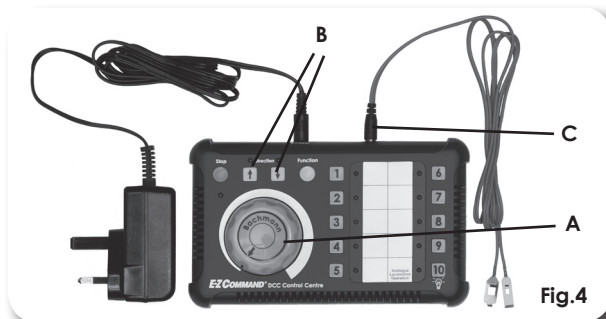


**INCORRECT ✗**



**NOTE :-** If assembled track must be moved, care should be taken to avoid bending the track where sections connect. It is always best to assemble the track where it is to be operated.

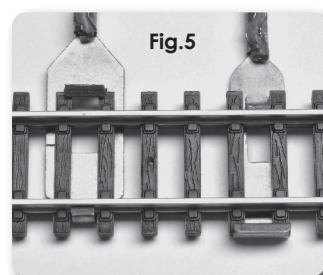
## Connecting the Power (for DCC train sets)



The following three items are supplied in all non digital sets:

- EZ Command train controller
- Track clips with wire and plug sockets
- 24v wall plug transformer

- A Speed control knob
- B Direction control
- C Jack plug
- D Power connecting track clips



Ensure the train speed controller knob (A) is set in the zero position. Fit the clips under the rails as shown in (Fig.5). Place the jack plug (C) at the end of the red wire into the socket marked with the track symbol on the train controller. Connect the jack plug from the wall transformer into the socket at this stage.

Carefully place only the locomotive (and tender if permanently attached) onto the track, making sure to check that all wheels are correctly placed on the rails.

**NOTE:** Please read the EZ Command Controller instructions enclosed with this train set

### ATTENTION PARENTS!

**WARNING:** To reduce the risk of fire or electrical shock, do not expose the controller or mains transformer to rain or moisture. Suitable for indoor use only.

**CAUTION:** To avoid the risk of electric shock, never remove the plastic covers of the controller or mains transformer. Refer any servicing to qualified service personnel.

**CAUTION:** To prevent electric shock, do not connect the controller or mains transformer to an AC outlet in the bathroom, near a sink, or in any other damp area.

**CAUTION:** To prevent electric shock, fire or personal injury, do not operate controller or mains transformer when the power cord or cover is damaged. Periodic examination of both units is recommended.

## Operation

Place your locomotive on the track, ensuring the bottoms of all wheels are in contact with the top surface of the track (Fig.6).

Plug the mains transformer into the wall socket and switch on. Gradually turn the speed control dial on the train controller. If the locomotive moves backwards when the control switch indicates forward, simply change the track clips over and re-connect to the track.

Once the locomotive has been 'run-in' (see below), you can place the additional coaches or wagons provided in the set onto the track, ensuring they run smoothly, by gently pushing back and forth. Couple the coaches or wagons together with the locomotive. The couplers will engage automatically (Fig.7).

Do not leave your train running unattended. Unplug the mains power transformer when not in use.



## Running In

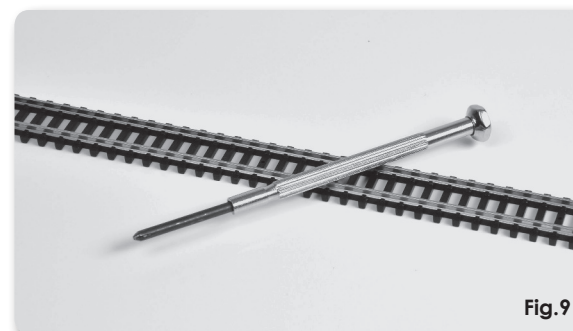
It is necessary that this locomotive is 'run-in' to allow the mechanism and gears to settle. This requires the model to be run without a load (wagons, coaches, etc.) for 30 minutes in each direction at half speed.

## Fault Finding Checklist

### SHOULD YOU EXPERIENCE ANY PROBLEMS WITH YOUR TRAIN, PLEASE CONSULT THIS FAULT FINDING CHECK LIST.

1. Make sure the mains transformer pack is plugged in.
2. Make sure all locomotive and coach/wagon wheels are on the track.
3. Check to make sure all wiring is secure and there are no crossed wires.
4. Check to make sure the track is properly assembled.
5. If your train hits a bump or derails anywhere along the track, that section of track may not be properly seated in the fishplate. Make sure all the track is properly linked together. Refer to previous track assembly instructions.
6. The mains transformer may be warm to the touch. If you feel that it is excessively hot, switch mains supply off immediately, and consult your model store, or contact the Bachmann Service Department on 01455 245575.

## Short Circuits



If your train stops or fails to start, an electrical short circuit may have occurred. Unplug the mains transformer at once. Derailed wheels may cause an electrical short, so check that all wheels are correctly seated on the track. Check all connections and ensure that no metal of any sort is across the rails (Fig.9).

**NOTE:** Your mains transformer is protected by a circuit breaker that automatically resets after a short circuit is corrected. Allow up to 15 minutes for circuit breaker reset before resuming operation.

## Cleaning & Maintenance

Please take care when removing your model from its packaging. Lift carefully, do not pull by the buffers or locomotive valve gear. Packaging should be retained for safe storage of your model when not in use.

Do not run your model using track laid on carpet as dust and fibres may enter the working parts of your model. Care must be taken to clean and maintain your train for optimum performance. After eight hours of use, wipe the track rails and exposed portions of your locomotive's wheels with a soft, lint-free cloth or cotton swap to ensure good electrical contact. Please note a black residue may appear on the cloth.

**DO NOT USE STEEL WOOL TO CLEAN YOUR TRACK.**

If your track should become very dirty and dull looking, clean it with one of the recommended track cleaners available at your local hobby retailer. (Common solvents are not recommended, they may damage plastics). Make sure your track is free from lint, fibre and loose materials which may foul the locomotive motor.

## Lubrication

All Graham Farish locomotives are supplied ready lubricated and can be used straight from the box. Over time your locomotive will require some additional lubrication, when will depend on the frequency of use and storage, so please inspect your model on a regular basis.

**Please note:** A plastic compatible lubricant is required. Suitable products from both the Bachmann Trains and Woodland Scenics ranges are available from your local Bachmann retailer.

## Storage

It is important to retain your Bachmann train set box and associated information for future reference and storage.



## 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 of 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 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.
6. 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.
7. If Bachmann chooses to replace a product it will be with the nearest appropriate model of its choice.
8. Bachmann reserves the right to decline service to any model that has been fitted with a decoder after manufacture.
9. Bachmann will not be held responsible for damage or loss of an after market decoder fitted to a model submitted for service under the Warranty.
10. 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.
11. Bachmann's liability under this Warranty will in no case exceed the price paid for the product as originally manufactured.



Bachmann Europe Plc, Moat Way, Barwell, Leicestershire LE9 8EY

[www.bachmann.co.uk](http://www.bachmann.co.uk)

