

Safety Notes

!This product is not suitable for children under 3 years because of small parts which can present a choking hazard. Some components have functional sharp points and edges. Handle with care. !This product is intended for indoor use only. !The Digital Control system is only to be operated with the Hornby recommended transformers. !Before use the transformer should be examined for damage to the casing, plug pins and cables. In the event of such damage, the unit should not be used until the transformer is replaced with a new Hornby recommended unit. Never attempt to open the unit yourself. !Before cleaning any part, disconnect the transformer from the mains electricity supply. !Do not use liquid for cleaning. !Wires without a connecting means are not to be inserted into outlets. !The output terminals of the transformers must not be connected directly, or indirectly, to the output of any other mains power supply. !Please retain these details and the address for future reference.

Guarantee

All Hornby products are guaranteed against defects in materials and workmanship for a period of 6 months and Hornby Digital electronics for 1 year from the date of purchase. To qualify for the guarantee, the product must have been used and maintained according to the manufacturer's instructions, and will only be covered when used in conjunction with officially approved Hornby accessories and components. While every possible care and attention has been taken by Hornby to ensure that the product arrives to you in pristine condition, we cannot accept liability for any subsequent misuse of the product. It is the responsibility of the consumer to ensure that the product is maintained as per the servicing details provided.

For reliable programming it is important that the track and wheels of all locomotives and wagons used with the Select Digital system are kept clean. If any defect occurs during the guarantee period, then the item in the first instance should be returned to the place of original purchase. Alternatively, if any such defect occurs during the period of guarantee, then please contact your Hornby Service dealer for advice. Or, the product (or component), may be forwarded to Hornby Hobbies Ltd, carefully packed, with a covering letter enclosed giving full details to: **Repairs Department, Hornby Hobbies Ltd, Westwood, Margate, Kent CT9 4JX, UK.**

Please include a copy of the original sales document showing the product reference number, date of purchase and from where purchased and any other requested information relating to the product. Please obtain a Certificate of Posting at the time of despatch.

Exclusions

Subject to the exclusions below, the product will be repaired or replaced free of charge, if the problem is found to be due to either workmanship or materials. The repair/replacement will be provided as promptly as possible without significant inconvenience to the consumer: !The fault has been caused or is attributable to mis-use, negligent use or used contrary to the manufacturer's recommendations. !Accidental physical damage. This guarantee is valid for products purchased in the United Kingdom and in addition to, and does not diminish, your statutory rights. For further advice about your statutory rights contact your local authority Trading Standards Department or Citizens Advice Bureau. This warranty only covers Hornby manufactured items. Please retain these details and address for future reference.



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Introduction

A Hornby Digital Booster can be fitted to a model railway layout in order to supplement an existing controller by providing extra track power. The Hornby Digital Booster can also be used to automatically handle track polarity reversal when connected to a Reverse Loop or Wye track configurations. The Hornby Digital Booster will also boost the digital signal from either a Hornby Select, Elite or an alternative controller and may also be linked to another booster.

A Hornby Digital Booster is ideal for large layouts which have in the region of 500 plus feet of track however on exceptionally large layouts it may be necessary to divide the layout into separate "power areas". If in doubt consult your Hornby Digital stockist or contact the Hornby Helpline.

For more information visit: www.hornby.com

DCC Power Booster

A DCC Power Booster provides the following functions...

On larger layouts where there is a degradation of the DCC signal at extreme distances from the DCC controller it is usual to divide the track into "Electrical Districts" each being driven from a dedicated Power Booster. DCC signal degradation on very large or complex layouts can still occur even if a 'Buss' wiring technique is used to supply power to the track.

Each Power Booster is controlled by taking a DCC signal from the Main Controller or from a location on the track where a good DCC signal is present.

Also, Power Boosters allow more locos to be run on the same layout. Normally, the number of locomotives that can be run on any layout will be limited by the maximum current available from the power supply feeding the Main Controller and its associated Booster.

Please Note:

This Main Controller and associated Booster are integrated in the Select and Elite controllers.

If it is desired to run more locos than the limit governed by the power system of the Main Controller/Booster, then it will become necessary to divide the layout into isolated "Electrical Districts" each being driven by its own dedicated Power Booster. This will allow additional locos to be run

in each "Electrical District" up to the maximum allowed by the power supply used by the "Electrical District's" Booster unit.

Creating an "Electrical District" and adding a Power Booster to drive it does NOT increase the number of locos capable of being run in any other district. The part of the layout making up the first "Electrical District" is connected to the Main Controller/Booster. This is the "Prime Electrical District".

Generally the use of Power Boosters is dependent on the architecture of the layout and the maximum number of locos to be run at any one time. i.e. A relatively small layout may contain many "Electrical Districts" if a large number of locos may be in operation at any one time.

Then again, if you have a large layout you may need to add "Electrical Districts" and Power Boosters to ensure the "quality" of the DCC signal at all points of the layout. A complex layout with "fiddle yards" and "long runs" of track may contain many "Electrical Districts" of different physical sizes or track running lengths.



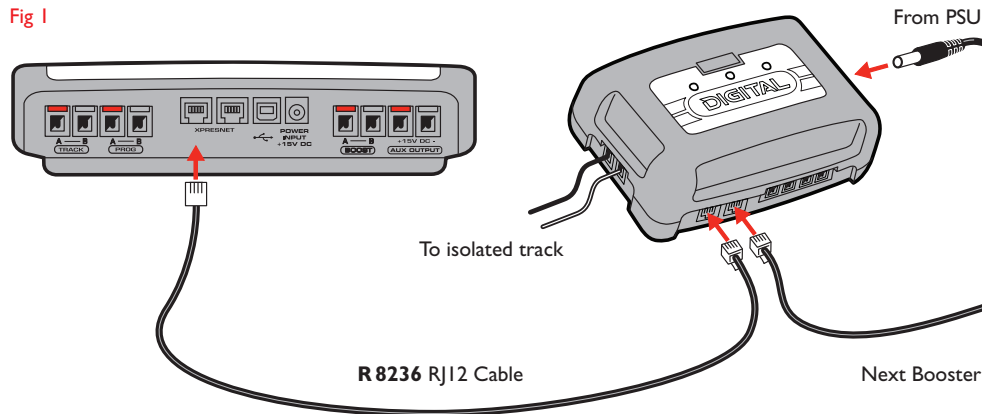
Connecting a DCC Power Booster

Please Note: PSU = Power Supply Unit (Transformer)

Connecting to the Select and Elite using the XpressNet port

Using a Hornby R8236 RJ12 cable connect the booster to either of the two XpressNet ports of the Elite controller or the XpressNet port of the Select.

Fig 1

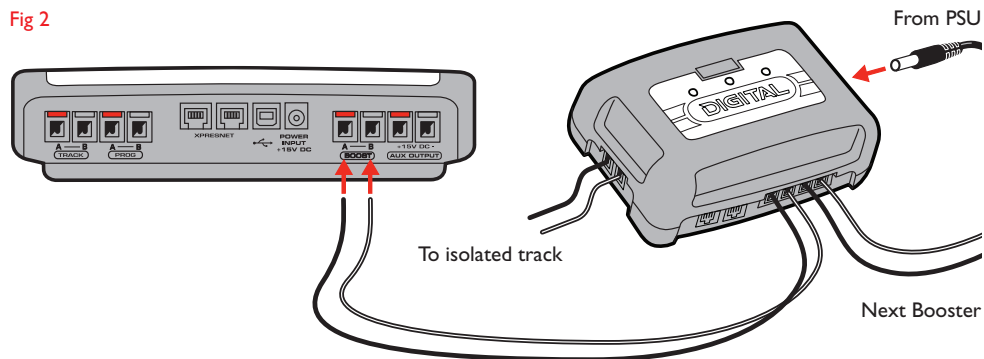


3

Connecting the Elite using the "Boost" terminals located on the back of the controller

Connect 2 wires from the "Boost" terminals positioned on the back of the Elite to the terminals on the Booster.

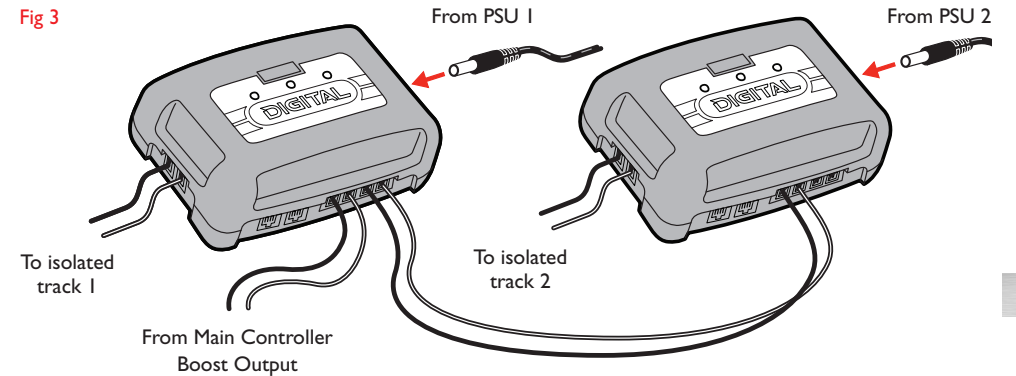
Fig 2



Connecting two Boosters together

Connect the two output terminals from Booster A to the input terminals of Booster B.

Fig 3



4

Alternative connection

If RJ12 Leads, or other suitable flex of sufficient length is not available, the Booster can take a Control signal directly from the track of the main Power area. Connect the Power clips supplied, to the track as shown. The wire from the main Power area should be connected to "Boost IN". The wire from the Secondary Power area should be connected to the "Track" terminals on the Booster.

Fig 4

