

Scenecraft Railcraft Layout Plan No. 102
SCENECRAFT
RAILCRAFT
LAYOUT
PLAN

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NOTES ON

CATALOGUE No. FA 0201

**GRAHAM FARISH POWERBOX 300
240v AC MAINS TRANSFORMER AND
12v HAND HELD CONTROLLER FOR
USE WITH N GAUGE SCALE MODELS ONLY**



CATALOGUE No. FA 0201

**TESTED AND APPROVED TO COMPLY WITH
EMC DIRECTIVE 89/336/EEC (EN55014:1993)
AND LVD 73/ 23/EEC**

DESCRIPTION

THE POWERBOX TRANSFORMER

This is the 240 volt AC Mains Transformer. It is a modern (3 pin) wall mounted type transformer ready to plug into a conventional 13 amp socket. (U.K. Type) It features overload, thermal and short circuit protection.

THE 3 METRE TWIN CABLE

The Transformer (above) outputs a nominal 14 volt DC. to the Hand Held Controller through this 3 metre Twin Cable.
WARNING: Do not tamper, cut, damage or alter this cable in any way or you will invalidate your Guarantee.

THE HAND HELD CONTROLLER

The Hand Held Controller accepts a nominal 14 volt DC input from the Transformer via the Twin Cable above. The CONTROL KNOB (1) regulates the SPEED of the Locomotive. (Technically, the Control Knob instructs the Controller to output a variable 1.25 volts [i.e. DEAD SLOW SPEED] increasing, as the Knob is gradually turned, all the way up to 12 volt DC maximum output. [i.e. TOP SPEED]). The SWITCH (2) controls the current polarity. (i.e. FORWARD AND REVERSE.)

SAFETY FEATURE

The Hand Held Controller should feel pleasantly warm when in normal use. If there is a derailment, or any metal object is left lying across the track, this will cause a short circuit. Whilst this does no damage to the Locomotives or the Controller, it WILL gradually cause the Hand Held Controller to heat up to "Hot Water Bottle" temperature, if the fault remains unnoticed for some time. This condition is not dangerous, but obviously undesirable, and should therefore be avoided.

AUTOMATIC SAFETY SHUTDOWN

When the higher temperature is reached, an Automatic Thermal Shutdown device cuts in and switches off the power to the track. Power cannot then be restored to the track until the original cause of the short circuit is removed. Once this is done, the thermal device immediately resets itself automatically, and power is again restored to the track.

**ENCOURAGE A GOOD SAFETY HABIT!
NEVER LEAVE THE LAYOUT ROOM WITHOUT CHECKING THAT THE POWER IS OFF
AT THE MAINS SOCKET.**

3 METRE TWIN CABLE

The second 3 metre twin cable coming from the Hand Held controller, carries the 12 volt DC Power Supply to the track itself.

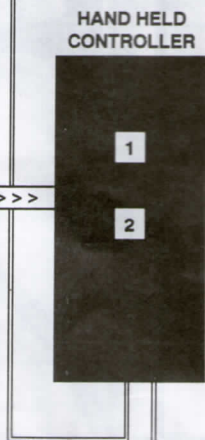
NOTE: Purchasers of the individual Catalogue No. FA 0201 only, will find that the two ends of the power-to-track Twin Cable are fitted with metal fishplates already soldered on ready for use.

NOTE: Owners of TRAINSET Sizes 1, 2 or 3 will find that the two ends of the power-to-track Twin Cable are already soldered to the metal fishplates of one section of fixed Curved Track- so that it is ready for immediate use. Just fit the sections together and plug in!

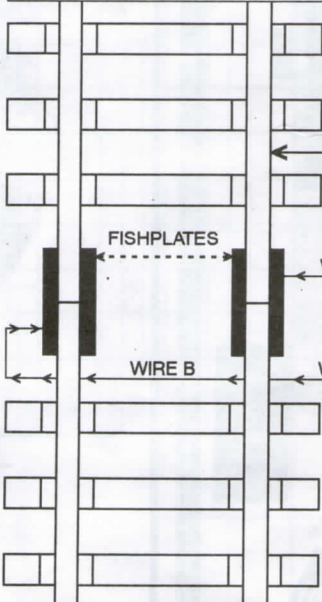
TRANSFORMER



3 METRE TWIN CABLE



TRACK DIAGRAM



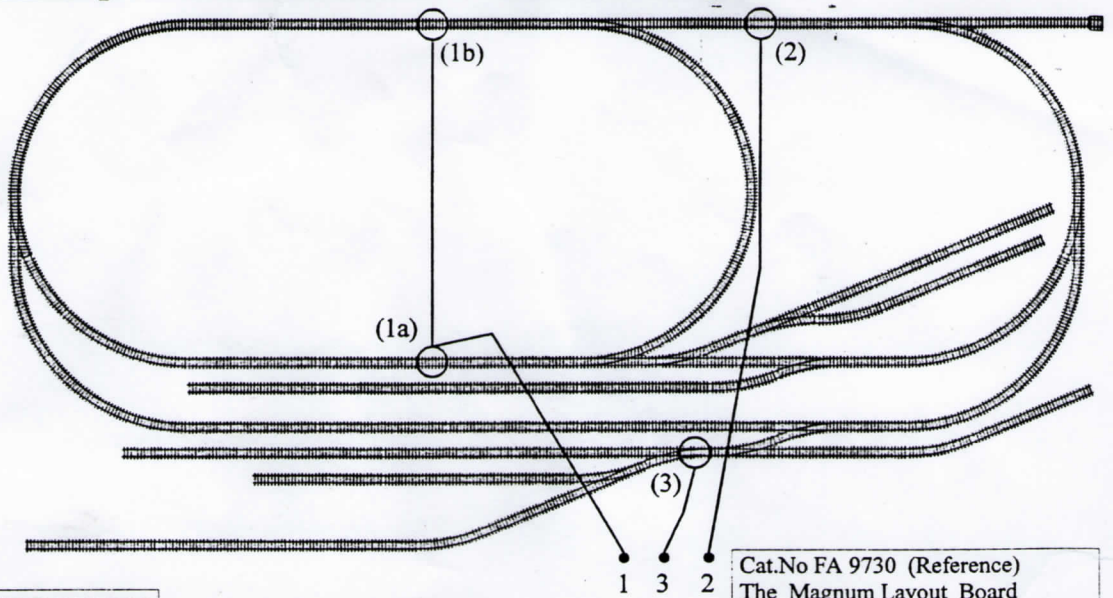
THIS SHOWS WIRE "A" SOLDERED TO THE FISHPLATE ON ONE SIDE OF THE TRACK, AND SHOWS WIRE "B" SOLDERED TO THE FISHPLATE ON THE OTHER SIDE OF THE TRACK.

NOTE THAT WIRE "B" SHOULD PASS UNDER THE TRACK TO CONNECT TO THE FISHPLATE ON THE FAR SIDE.

**TRACK DIAGRAM
(NOT TO SCALE)**

Magnum Layout Connection Examples

Cat.No FA 9702 (Reference)
Magnum Layout Plan ONLY
This just shows where power connection points should be positioned.



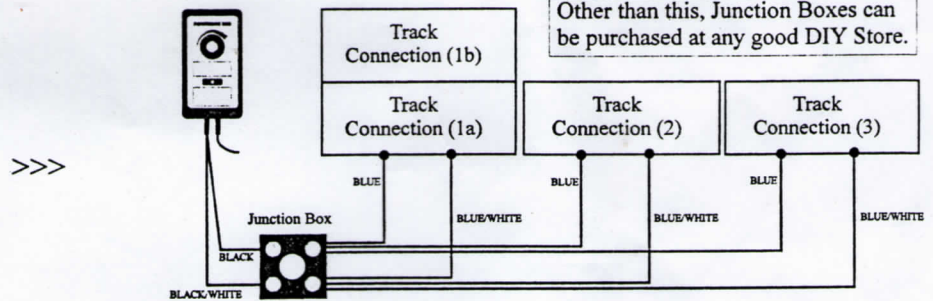
Note: The Cat.No.0201 POWERBOX 300 Transformer/Controllers recommended are NOT included in any Example shown.

Cat.No FA 9730 (Reference)
The Magnum Layout Board
Note:Each pair of wires is numbered to correspond with the plan above. A 2 way Junction Box is fitted as shown to each Cat. No 9730 Magnum Layout Board.

Other than this, Junction Boxes can be purchased at any good DIY Store.

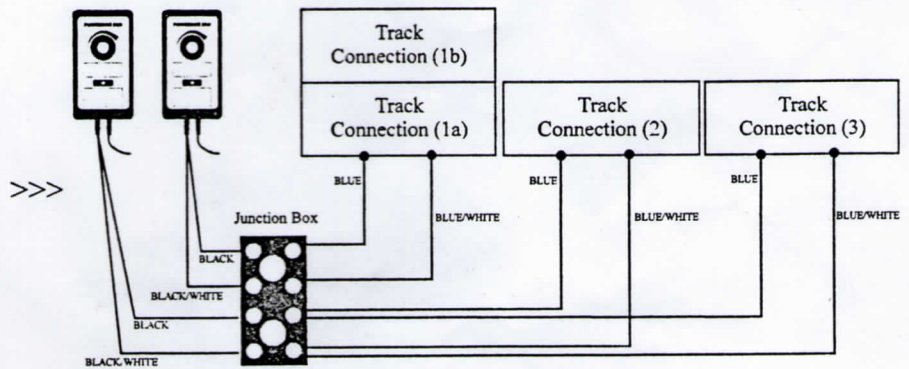
EXAMPLE 1

Using ONE POWERBOX 300 Controller allows the whole track layout to be operated by just one controller.



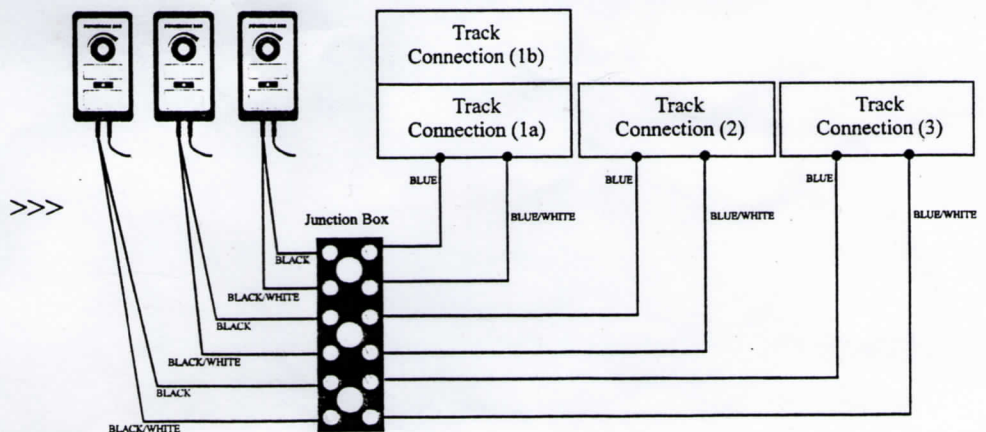
EXAMPLE 2

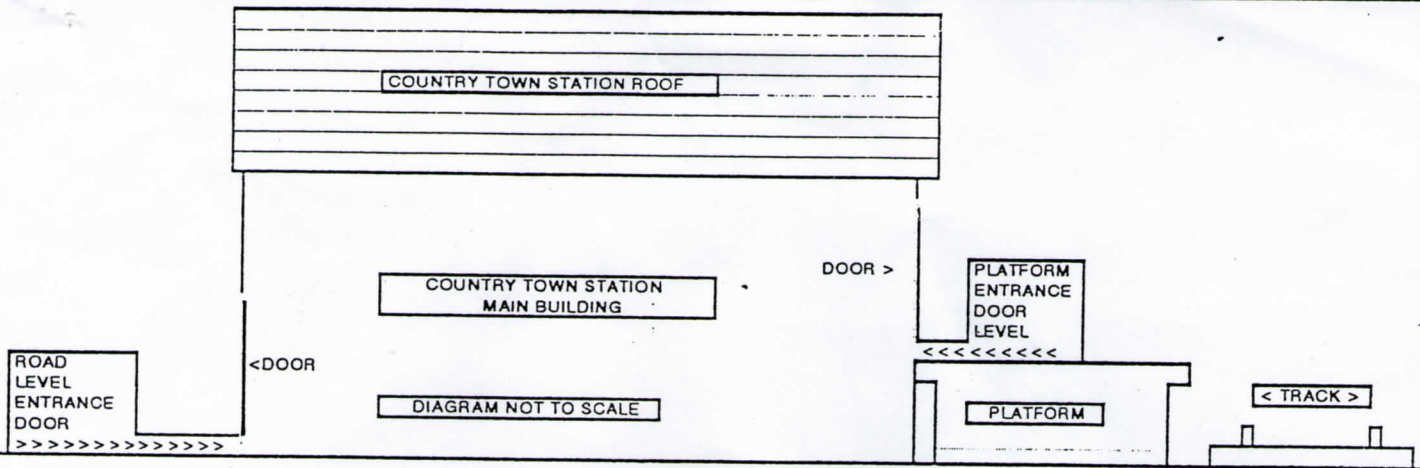
Using TWO POWERBOX 300 Controllers allows one Controller to control Sector 1 and the other to control Sectors 2 & 3.



EXAMPLE 3

Using THREE POWERBOX 300 Controllers allows individual control of each of the three track sectors..





COUNTRY TOWN STATION ASSEMBLY NOTE: The sticky backed printed cards for the Country Town Station are arranged so that the entrance doors at each end of the building are at road level in the standard format. HOWEVER: If you wish to place a platform along one end of this building, (as is necessary for the Magnum Layout Plan No.9702), this will of course obstruct that entrance. The diagram above shows, that all you need to do is to cut down the height of the printed card of the Main Building (at the platform end of the building) so that the bottom of the entrance door is then level with the top of the platform. We recommend that you try this out for positioning before you cut the card or peel off the backing paper. This suggests that there is probably an imaginary set of steps inside the Booking Hall – thus making good sense of this interesting but simple and realistic modification.