

# Sample 403 error page

## Kits by Purpose

### Pocket Money Projects

There is a new range of kits specifically for the beginner known as [Pocket money projects](#), these are being introduced as they appear in the Journal. They differ from the main range of kits in that they do not have a custom designed PCB (Printed Circuit Board) but come with a suitably sized piece of Stripboard, and the build instructions are not included but have to be downloaded from the Kit Locker. These kits are intended to encourage experimentation.

The currently released PMPs are [listed here](#) together with links to Forum topics covering various aspects of each PMP.

There is a Wiki page containing an article reproduced from the July/August 2005 edition of the Journal (Newsletter) about the production of [Stripboard Circuits using Excel](#).

In the section below, a lot of what look like external links are in fact links to pages within this Wiki which have yet to be created. These links are full URLs at present, if you are able to create any of these pages, then please do so, clicking the 'Create this page' button produces a template for the Kit detail page.

### Point and Signal Operation

[Kit 52 - DCC Accessory Decoder \(pulsed output\)](#) Drives 1 to 4 Solenoid Point Motors by decoding a DCC signal.

[Kit 84 - 4ch Pulse Motor Driver \(CAN-ACC4\)](#) Drives 1 to 4 Solenoid Point Motors by interpreting Events on CBUS.

A way of driving Motorised point actuators using the above is described [here](#).

[37a - PD3-1000 Dual Capacitor-assisted Turnout Motor Driver](#) and

[37b - PD3-2000 Dual Capacitor-assisted Turnout Motor Driver](#) Drive 1 or 2 Solenoid Point Motors from [active low signal wires](#), can be used with two wire motors as included in Kato Unitrack.

[PMR1](#), Single Point Motor driver with Relay. Like the PD3 it is activated by an [active low signal wire](#). Available from [Gordon Hopkins](#). See also the [RPC page](#).

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[53 - DCC Accessory Decoder \(steady output\)](#) Has 8 outputs that may be used in pairs to drive low current stall motors, such as Tortoise motors. Also available is [Enhancer Kit 55](#), this increases the output drive for use with Fulgurex, Lemaco and similar motors. Control input to this module is a DCC

signal.

[85 - 4/8ch Constant Motor Driver \(CAN-ACC5\)](#) Has 8 outputs that may be used in pairs to drive Tortoise, Fulgurex, Lemaco and similar motors. Control input to this module is CBUS.

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[75 - Servo4](#) Drives 1 to 4 servos, each has an [active low signal wire](#) to control which of two adjustable positions the servo should be in. Speed of movement is also adjustable. Servos can be used to move points and semaphore signals.

[977 - Servo1 PCB](#) Not a Kit as such, PCB only, drives a single servo.

[88 - 8ch Relay/Accessory Driver \(CAN-ACC8\)](#) This module has 8 [Open Collector](#) outputs which may be used to drive relays, LEDs and other modules such as Servo4. There is a [CAN-SERVO8](#) PCB (item 987) available which uses most of the parts from a CAN-ACC8 Kit, some discussion of this is [here](#).

[36 - SD2-4 Quad Colour Light Signal Driver](#) Designed to drive 2, 3 or 4 aspect colour light signals with either individual LEDs or common cathode LEDs.

[SD4](#) Designed to drive 4 aspect colour light signals with 3 wires, a common which is shared by 2 back to back pairs, R & Y1 and G & Y2. Available from [Gordon Hopkins](#). See also the [RPC page](#).

## Train Detection - General

A Wiki topic covering various means of detecting trains [is here](#).

## Train Detection - Block Occupancy

### Diode drop

[62 - 4ch DC or DCC diode drop Block Detector \(Train-on-Track-Indicator, ToTi-4\)](#)

[63 - 12ch DC or DCC diode drop Block Detector, \(ToTi-12\)](#)

[FTC](#) 8 channel Floating Track Circuit from the RPC range. Available from [Gordon Hopkins](#). See also the [RPC page](#).

[PCB for DCC-ToTi](#) 8 channel DCC only detector, currently not available as a kit, PCB only item 968. [Forum discussion here](#), Article on page 27 [Feb 2013 Journal](#).

### Current transformer

[56 - 8ch DCC only Current Transformer Block Detector, DTC-8](#)

## Feedback

[89 - 8ch Layout Feedback Interface \(CAN-ACE8C\)](#)

## Train Detection - Spot Positioning

## Train Detection - Identification

[Kit 30 - RFID - starter](#) Reader and RS232 interface

[Kit 31 - RFID - reader](#) Additional Reader

[Kit 33 - RFID - upgrade](#) Upgrades RS232 interface to Concentrator

## Train Control - DCC

## Train Control - Automation

## Layout Control Panel

## Lighting and Effects

[Gas lamp twinkler](#)

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