

Dingo Servo Mounts

4 Channel DCC Accessory Decoder / Adapter

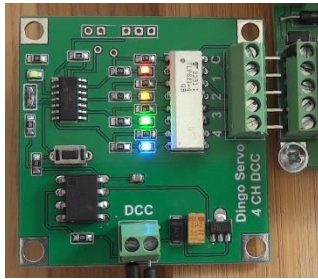
Safety Precautions.

Before installing this product, make sure that you have read the full instruction guide and are comfortable with the requirements.

Make sure that all parts, especially plastic packets, are kept away from young children.

These boards are still in a test phase of marketing and maybe subject to failure.

Description and Origin



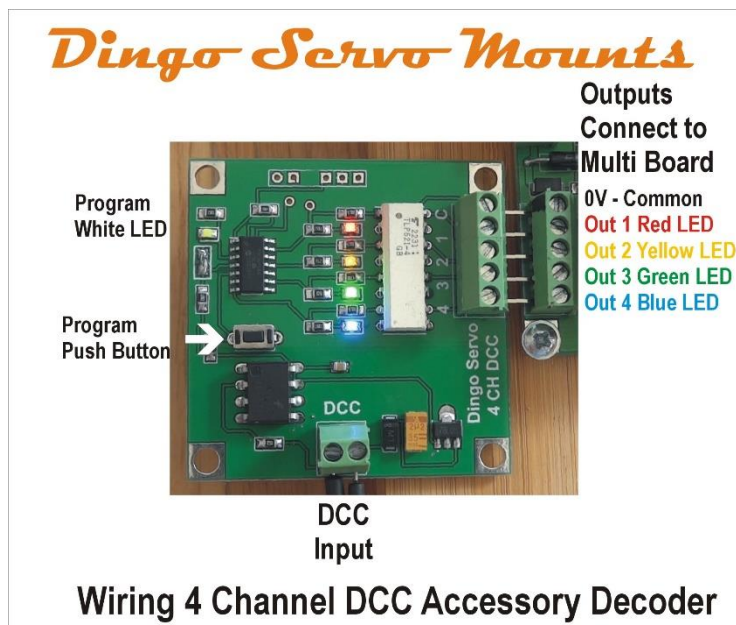
This control board came into being because I have been asked frequently to have a DCC interface to work with our standard control boards where modellers do not wish to run an analogue system for points and signals.

The outputs are from a quad optocoupler with transistor NPN outputs which will “ground” the outputs from a positive low voltage DC supply

This board is designed to work with our Multi Control servo boards but can be used with any other control board with certain limitations. (Please contact me if you wish to do this)

Wiring up.

Wiring up is very simple.



The DCC input is connected to the DCC bus on the layout.

The outputs will connect directly to a Dingo Multi Control board and operate it without any modifications.

The 5 long header pins included in the kit need to be removed from the plastic holding strip. These are then used to connect the 5 terminals on the DCC board directly to the 5 terminals on the Multi Control Servo Board.

If you are using the outputs for a different item, then the 0V / Common terminal is marked Black and the 4 other ones will go to the (switch) terminals on your control board. (Note this switches to low on operation)

These are being tested at the moment so may not be compatible with your DCC controller.
I know that the MERG DCC system cannot program accessories at this moment in time.

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Programming

Connect the board to a DCC system and power up.

When the program push button is pressed the white light will flash allowing you to program and address into Channel 1 as (x) and Channel 2 will automatically be set to (x+1) Channel 3 (x+2) etc
For example, if you programmed the first address as 10, then you will have address 10 on channel 1 and address 11 on channel 2 etc

(Boards normally leave our company programmed to address 10,11,12 and 13, but you can change this at any time.)

The output will follow the LED's on the board

Channel 1 is **RED**, Channel 2 is **YELLOW**, 3 is **GREEN** and 4 is **BLUE**

I have programmed mine as follows with a NCE Powercab controller.

1. Press the set button on the PCB – The White LED will flash to indicate that the board is in setting mode.
2. Press <SELECT ACCY>.
3. Press <enter>
4. Enter the Accessory Address you want as the starting point
5. Press <enter>
6. Press <!> on the handset and the PCB White LED will flash once to indicate that the address has been accepted.
7. If you now press <SELECT ACCY> and enter the address you have just set and <enter> you will see the options for 1 or 2. Note that as this is inverting <!> will set the relevant LED off and vice versa.
8. The White LED will flash once when operating a command
9. With the NCE a double click on the ACCY button will toggle the unit on and off.

I have also tested this board with a Digitrax Zephyr and a Lenz LZV100 / LH100 setup and they all work well.

However, the setting up is a little different so check out the operations manual for definitive instructions.

I hope that you will find this unit useful and, as always, I welcome any feedback.

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With Grateful thanks to Julian Coles for help with firmware.