

Dingo Servo Mounts

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



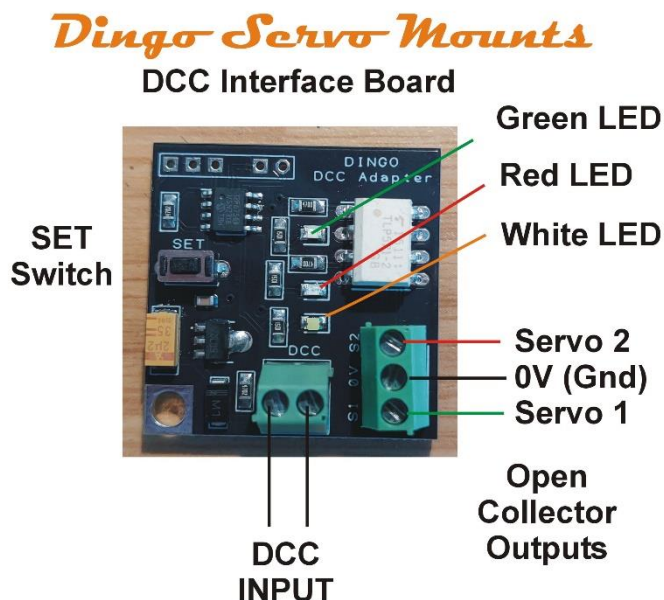
This control board came into being because I have been asked frequently to have a DCC interface to work with our standard control boards where modellers do not wish to run an analogue system for points and signals.

The outputs are from a twin 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 Red or Yellow Twin 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 Twin board and operate it without any modifications.

The 3 long header pins included in the kit need to be removed from the plastic holding strip. These are then used to connect the 3 terminals on the Sequencer board directly to the 3 terminals on the Red Twin Servo Control Board or Yellow Twin Signal Board.

If you are using the outputs for a different item, then the centre terminal is the ground / Common and the 2 outer ones will go to the (switch) terminals on your control board.

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.

The red and green LEDs should light up.

When the set button is pressed the white light will flash twice allowing you to program and address into Channel 1 as (x) and Channel 2 will automatically be set to (x+1)

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

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

The output will follow the LED's on the board

So, when the **GREEN LED** is lit for channel 1 then the output on channel 1 is essentially shorted out.

And the same goes for channel 2 and the **RED LED** and output.

The **GREEN LED** is the indicator of channel one and will operate Servo 1 on the twin Control Board and similarly the **RED LED** will indicate Servo 2

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

1. Press the set button on the PCB – The White LED will flash twice to indicate that the board is in setting mode.
2. Press <SELECT ASSY>.
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 ASSY> 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 on Channel 1 and twice for channel 2
9. **PLEASE NOTE! This is a simple controller and can only action one command at a time. You must wait for the first command to complete before sending another command.**

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

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