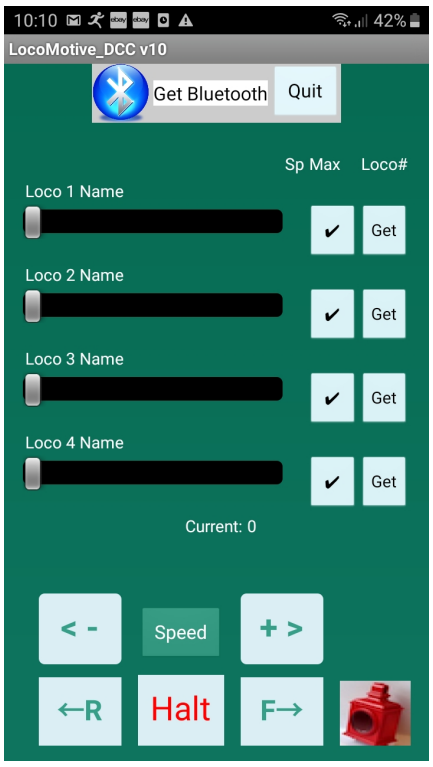
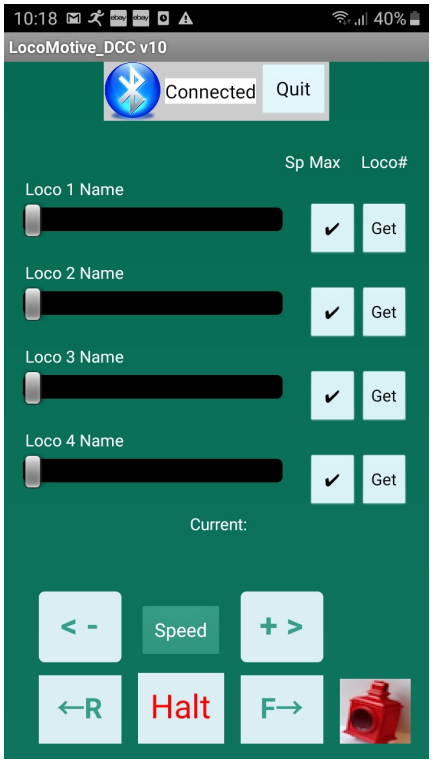
LocoMotive DCC v10 - for digital trains - Full App Operating instructions

This App is available on the Google Play Store: Search for “LocoMotive DCC”
Or type in this link:
https://play.google.com/store/apps/details?id=appinventor.ai_bill_falkland.LocoMotive_DCC

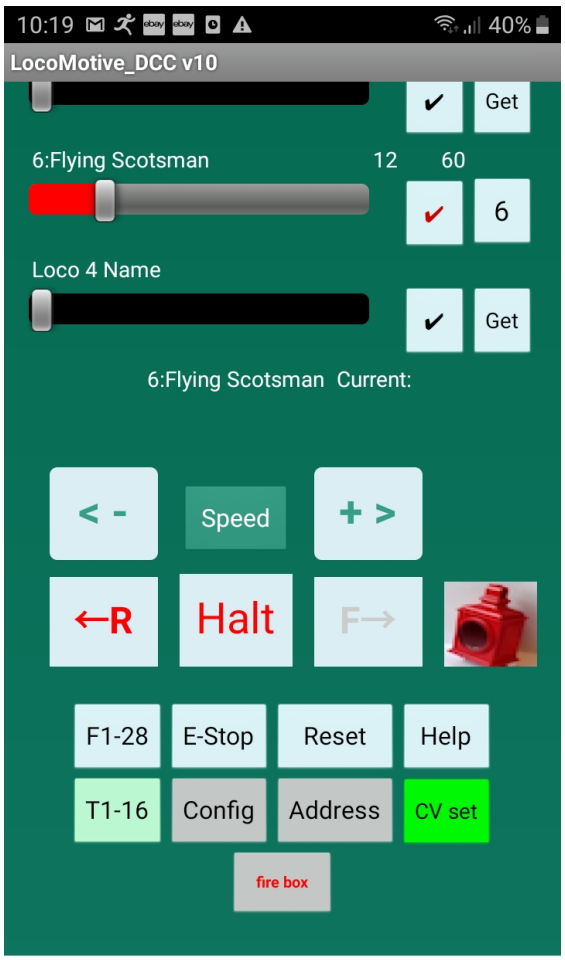
Go to Bluetooth settings on your phone/tablet and pair using ID of the DCCxx Bluetooth module on hardware circuit. The password is 1234



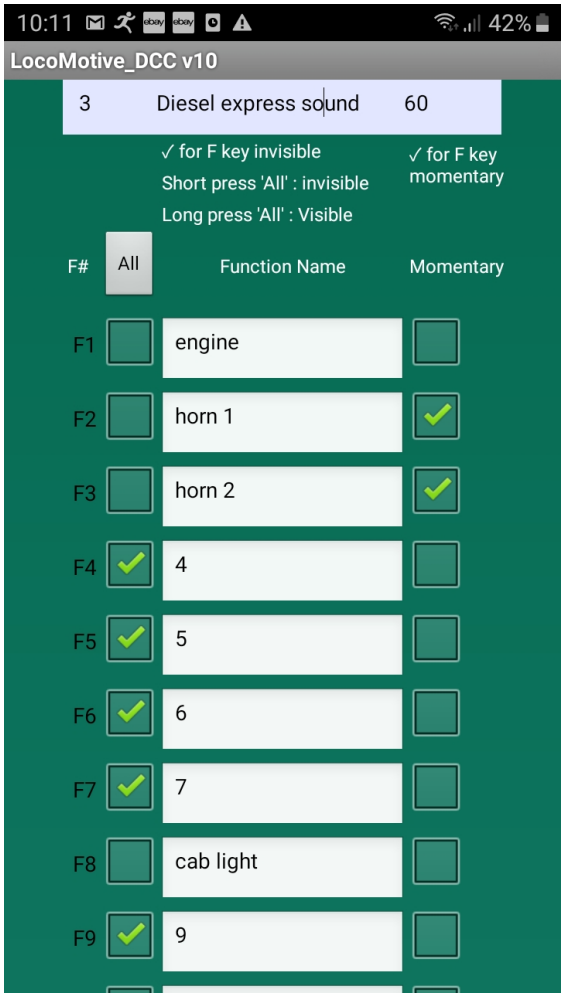
Once paired, press ‘Get Bluetooth’ at top of screen and select the DCCxx module from the list.



The screen should now look like this.
The ‘Get Bluetooth’ Label changes to ‘Connected’



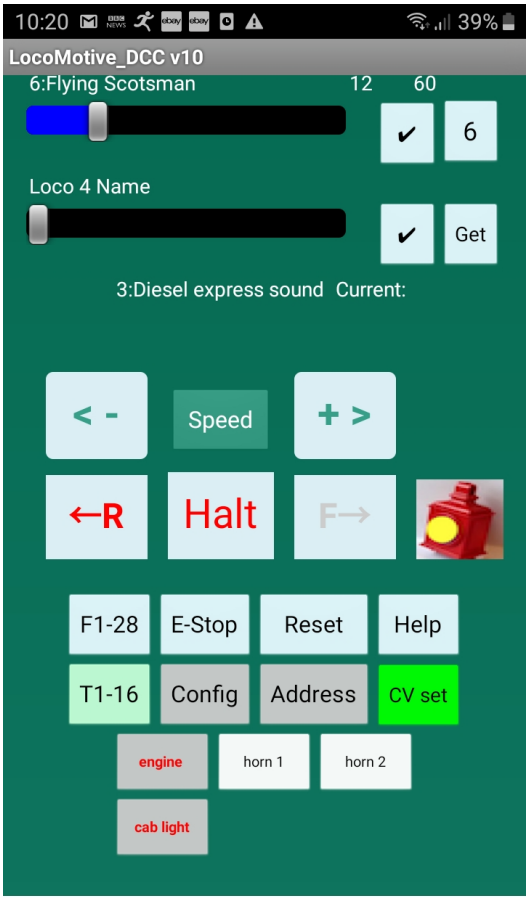
Select **'Get'** under 'Loco#' heading then pick the loco number from the list displayed.
If you select '9' you now have control over loco with address number 9 on your layout.
The '✔' indicator will turn red '✔' to indicate this loco is currently under control
To give this loco a name and to configure its functions press the **'Config'** button.



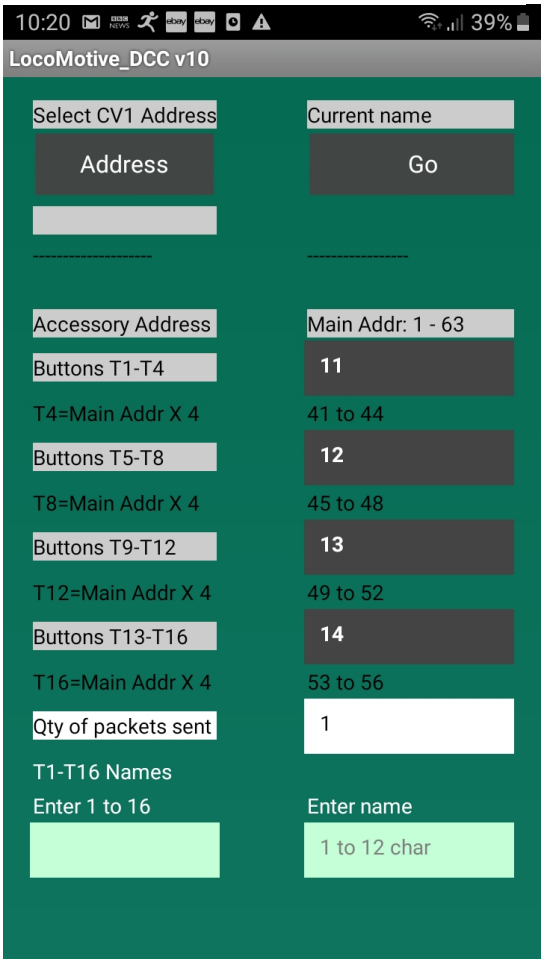
You are now on this layout.
With '3' displayed under Loco# enter the required name of your loco and set a maximum speed if desired.

If there are no functions on this loco to control, select 'All' which ticks all of the 1 to 28 function boxes.
If you have say F1 for starting an engine sound, this function can be unticked and given its name as shown.

To make a function operate 'momentary' simply tick the required box on the right hand side as shown for F1 and F2 (horn sounds)



On the main layout again, if you want to set the CV1 address of a loco press **'Address'**



You are now on this layout.

With the loco on the track on its own - or use a separate track to ensure no others are affected.

Select **'Address'** number you require (1 to 20) and press **'Go'**

If the address has been programmed, a message will tell you so. The loco will move slightly to indicate good connection and successful programming.

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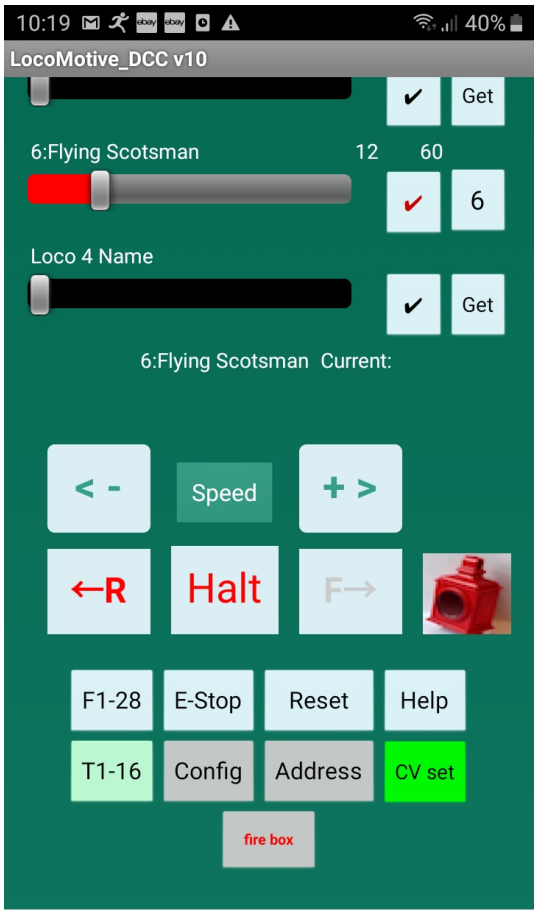
For accessory switching, the default main addresses are given as 1. 2, 3 and 4 which will operate decoder addresses 1 through 16

These may be changed to suit your accessory decoder for turnouts/points etc.

Example her shows main address of 11 to 14 which will operate decoder addresses 41 through 56

The number of packets sent to DCC system may be changed by entering 1 to 5 in 'Qty of packets sent'

The names on buttons T1 to T16 may be edited here also.



Back to the main layout,
To reverse loco direction use **'F'** and '**R**' arrow keys.
'**Halt**' to stop.

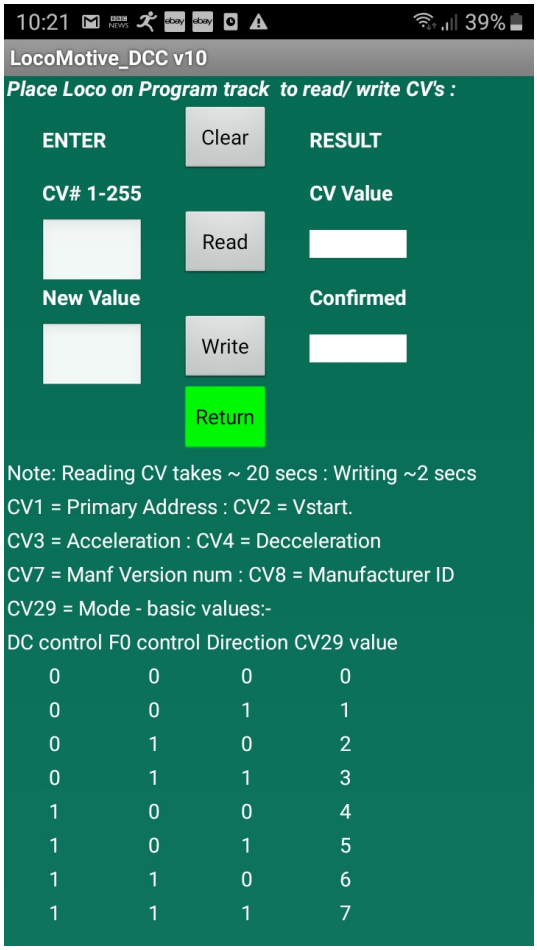
The '**<-'** Speed '**+>**' buttons allow fine control of the current selected loco speed.
Short press changes speed by +/- 1 single step
Long press changes speed incrementally by +/- 1 multiple steps.

The directional lights on the loco are switched on/off by pressing the lamp symbol shown.

'**E-Stop**' is for emergency stopping of all locos.
Press **'Reset'** to start up again.
If there is a short circuit or over load (>2 amps) the system will shut down and a message displayed. Clear the fault and press '**Reset"**

To access the accessory switches press **'T1-T16'**
Press **'F1-F28'** to remove display of T1 to T 16

To access the CV Read/Write screen, press the **'CV set'** button.



You are now here.

With the loco on the track on its own - or use a separate track to ensure no others are affected.

Enter the CV number you want to read or write into the **'ENTER CV# 1-255'** box
Press **'Read'** button and the value will appear in the **'CV value'** box

To change this value, enter the new value for this CV into the **'Enter New Value'** box.
Press **'Write'** button.
When complete the '**Confirmed'** box will show the result.

A selection of commonly used CVs are listed along with basic values for CV29 and how they affect control of DC operation, F0 active, and loco direction.

Bill Cuthbert, Nov 2019