

DCC70 BLACKBOX

Your DCC70 Blackbox requires the 0 – 12v DC output from a OO /HO analogue (ie not DCC) power controller and enables you to run a loco fitted with a DCC decoder on your analogue layout. Functions such as lights and sound will operate provided that the decoder in your loco supports these functions.

CONNECTION

Connect the two black wires to your track and the red/black wires to the variable 12v DC output of your controller.

Switch your controller on and turn the control knob up to around three quarters of full speed. Do not exceed 18v. The green **FWD** LED on the Blackbox should be lit. If not, then flip the forward/reverse switch on your power controller to its alternative setting.

OPERATION

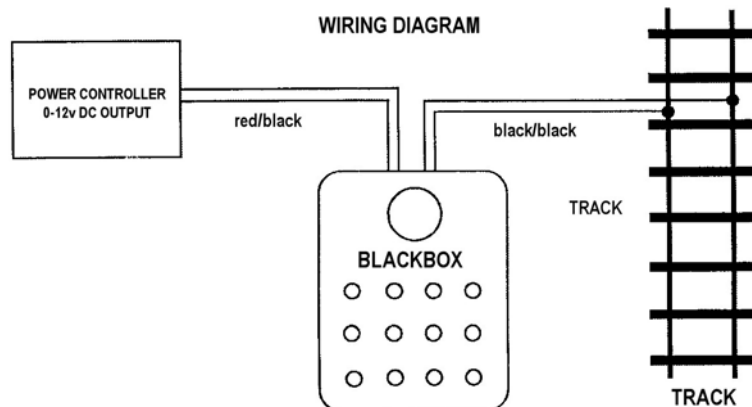
Use the knob on the Blackbox to control the loco speed. Press the **Direction** button to set forward or reverse. Press **0** to control the loco lights, if fitted and connected to the decoder. Press the **1** to **9** buttons to control the sounds associated with the F1 to F9 functions on the loco decoder. To control F10 to F28, press the **Shift** button and then the two digits. For example: To control F18, press **Shift, 1, 8**.

NOTE

* If your loco does not respond, Press **Shift, 9,9** to reset the loco decoder to its default address 3

* The maximum current capacity is 1.5A. When there is a short circuit or overload, the two LED' s will blink.

* For some Athearn locos, such as the SD45-2 you will need to press any numbered button to start up the engine.



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