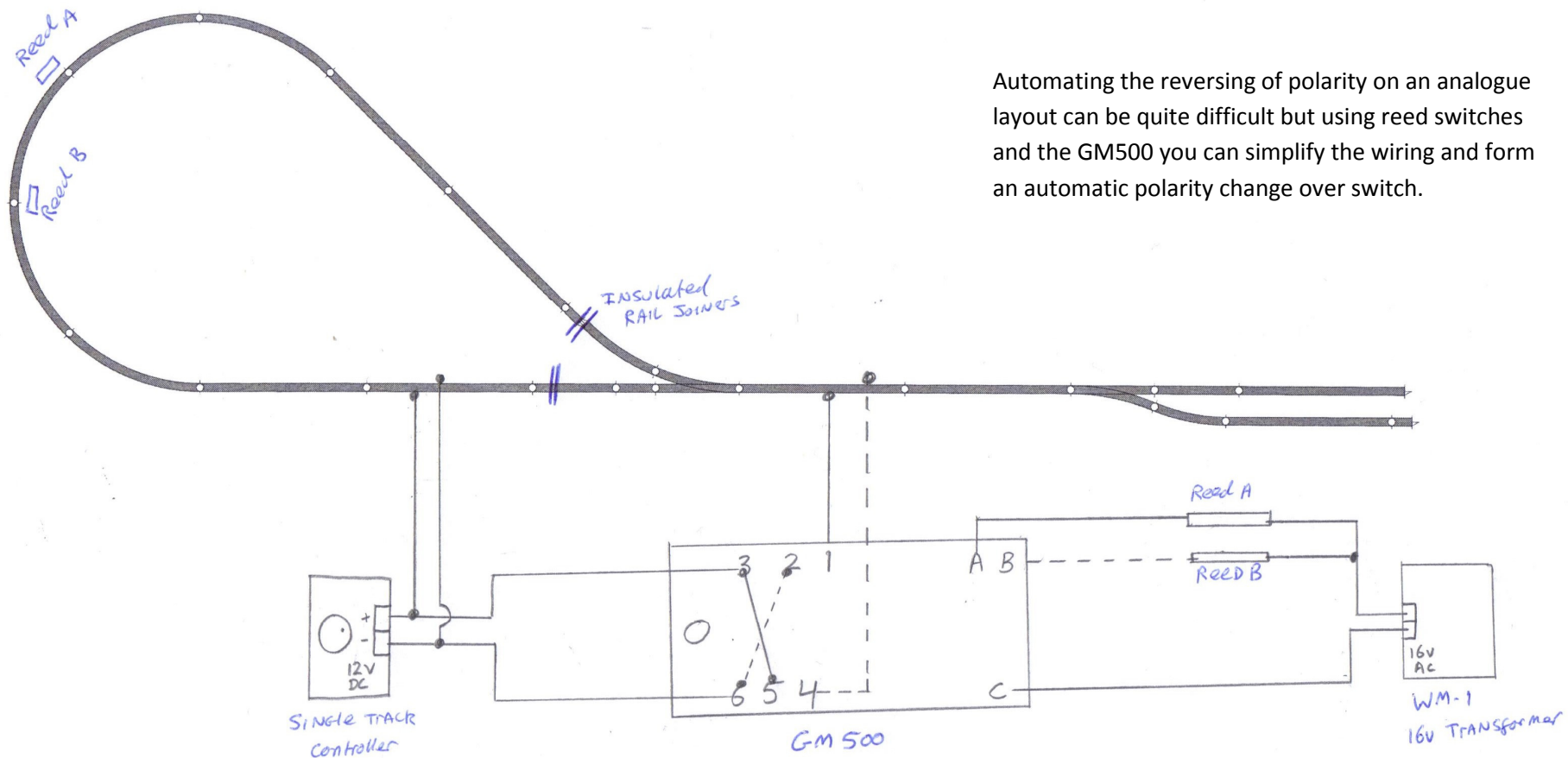


Wiring up a reverse loop in analogue using GM500



Automating the reversing of polarity on an analogue layout can be quite difficult but using reed switches and the GM500 you can simplify the wiring and form an automatic polarity change over switch.

Connecting the track:

Make two breaks in the reverse loop (indicated by the two blue lines)

Connect two wires from terminals 1 and 4 on the GM500 to the main part of the track (Not the reverse loop) then connect two wires from terminals 3 and 6 to the controller.

Altering the GM500:

Solder a wire between terminals 3 and 5 and solder another wire between terminals 2 and 6. This will then reverse the polarity when you switch the relay. Connect one wire from a 16v AC power supply to terminal C (the other wire will go to the reed switches in the next section)

Reeds and Magnets on the Locomotive:

Connect the second 16v AC wire to one leg of the reed switches. Then connect one reed to terminal A and the other one to terminal B.

Reed switches will need to be placed in the indicated positions so that they only operate when the locomotive goes over them in a certain direction. You will need to install the magnet on the left hand side of a coach or wagon bogie. The magnet will then operate reed A when travelling left up the reverse loop and then operating Reed B travelling in reverse.