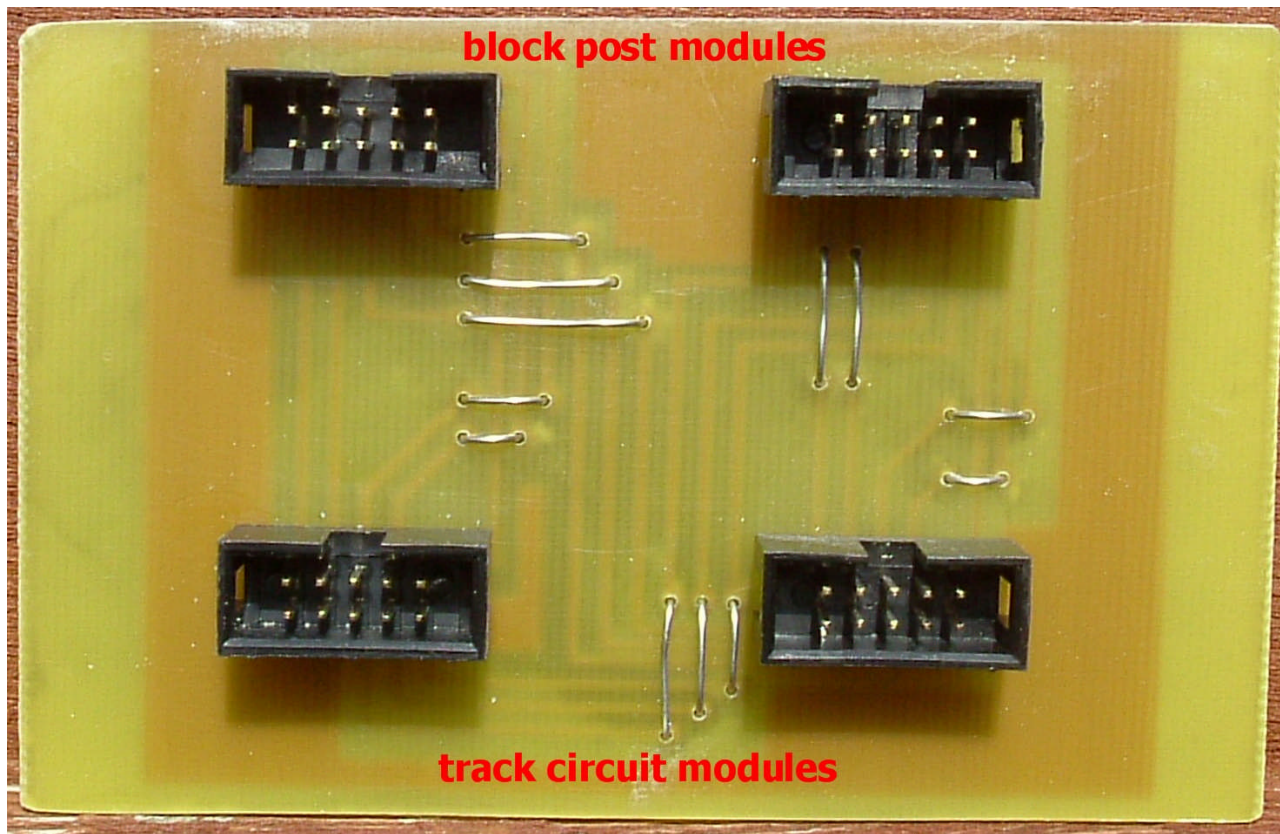


Block Post Simulator – PCB Construction

Block Post / TC interface



The present version of this board is very simple. This board is required to ensure that, in an A-B-C setup, trains from signal box A go onto the track circuits at B, after which they are passed on to box C. You can plug the block post module straight into the TC board if you want, but then trains from A would be sent back to A, and train from C back to C – which probably is not what you want.

If/when the simulator is made to simulate a junction, this board will have to be replaced with something rather more sophisticated, so that one track circuit chip can send/receive trains from several block post chips.

John M Saxton

17 April 2006

List of Components – Block Post / TC interface

description	quantity	MAPLIN code	comment
100 Ω 0.6 Watt metal film resistor			
150 Ω 0.6 Watt metal film resistor			
470 Ω 0.6 Watt metal film resistor			
680 Ω 0.6 Watt metal film resistor			
10 k Ω 0.6 Watt metal film resistor			
4 x approx 10 k Ω SIL resistor pack			not available from MAPLIN
1N4001 diode			
47 pF capacitor 0.1 inch pitch			
220 nF capacitor 0.2 inch pitch			
xxx electrolytic capacitor			
5V SPST reed relay		JH12N	
2 x 5 way IDC plug	4		
14 pin IC socket			use in pairs for 28 pin PICs
9 way right angle D plug			
9 way right angle D socket			
20 mA LED – red			
20 mA LED – green			
20 mA LED – yellow			
20 mA LED – orange			
4 way DIL switch			
7805 voltage regulator			

