

Blue Nebula Binson Style Emulation Information.

There are three Binson B2 style emulations available for the Blue Nebula MEM2 eeprom area.

1. The first one, Binson 1-5, covers the standard Binson switching positions 1 through 5;
2. The second one, Binson 6-10, covers the standard Binson switching positions 6 through 10;
3. The third one, Binson 11-15, covers the standard Binson switching positions 11 and 12 plus 3 additional combinations not possible with the standard Binson B2 switch arrangement.

The four head delay times are as standard at 77ms; 153ms; 230ms; 306ms all at equal level.

Binson 1-5	Head Selection	Feedback
A	1	1
B	2	2
C	3	3
E	4	4
F	1 & 2	1 & 2
Binson 6-10	Head Selection	Feedback
A	2 & 3	2 & 3
B	3 & 4	3 & 4
C	1 & 3	1 & 3
E	2 & 4	2 & 4
F	1,2 & 3	1,2 & 3
Binson 11-15	Head Selection	Feedback
A	2,3 & 4	2,3 & 4
B	1,2,3 & 4	1,2,3 & 4
C Non-Standard	1 & 4	1 & 4
E Non-Standard	1,2 & 4	1,2 & 4
F Non-Standard	1,3 & 4	1,3 & 4

Table 1: Blue Nebula Binson Switch Matrix

In all cases combination of heads are adjusted in the software such that a summed head signal cannot exceed +3dB to ensure that the Digital Signal Processor headroom is not exceeded. Feedback is always taken from all selected heads as per the Binson method. Feedback is attenuated to -2dB in order to limit system energy to prevent excessive oscillations.