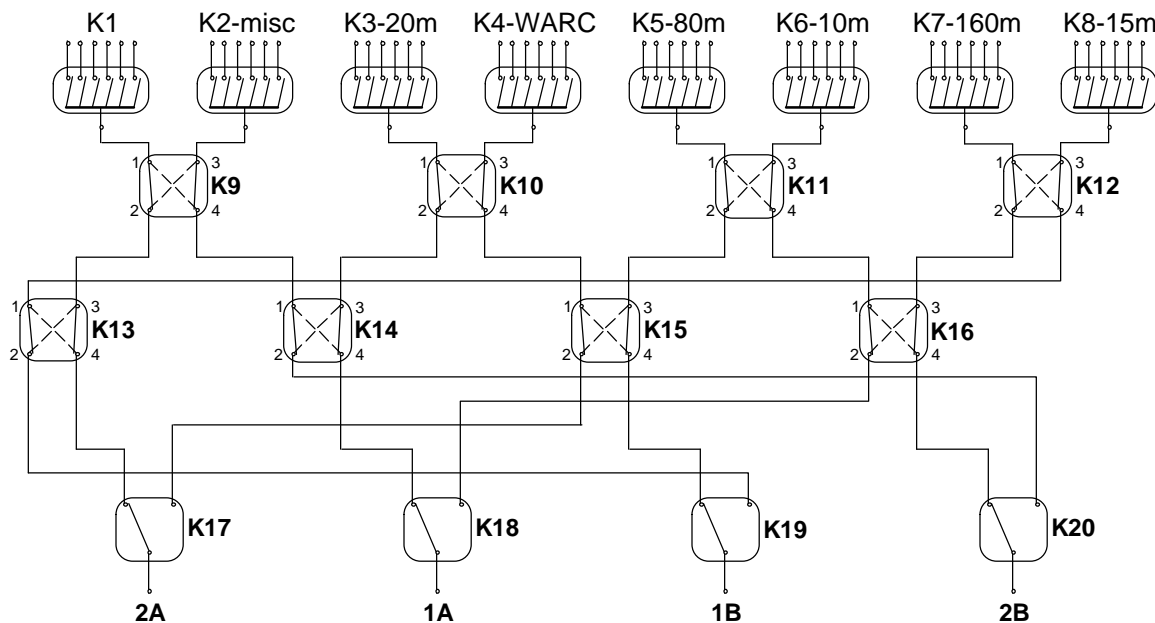


K6XX Antenna Selection Relay Matrix

24 August 2004



	K1 40m	K2 misc	K3 20m	K4 WARC	K5 80m	K6 10m	K7 160m	K8 15m
1A ON	9,14	14	--	10	11,18	18	16,18	12,16,18
1A NOT	--	9	10,14	14	16	11,16	12	--
1B ON	13,19	9,13,19	10,15	15	--	11	12,19	19
1B NOT	9	--	--	10	11,15	15	13	12,13
2A ON	--	9	10,17	17	15,17	11,15,17	12,13	13
2A NOT	9,13	13	15	10,15	11	--	--	12
2B ON	9,20	20	14,20	10,14,20	11,16	16	--	12
2B NOT	14	9,14	10	--	--	11	12,16	16

Table I. BAND Select Matrix control logic. For example, to choose Station 1A on 40m, relay coils 9 and 14 must be energized. For Station 1B on 80m, no coils need be energized, and coils 11 and 15 must NOT be energized (see conflicts in Table II).

DEFINITIONS:

- K1 – K8 BAND relays (top row of schematic)
- No relay coils apply to this parameter
- ON Relay coils necessary for selecting this relay to this station
- NOT Relay coils that MAY NOT be energized when selecting this relay to this station. (These represent potential conflicts—see Table II)

	K1 40m	K2 misc	K3 20m	K4 WARC	K5 80m	K6 10m	K7 160m	K8 15m
1A	none	2B/K1	2B/K4	2B/K3	2B/K6	2B/K5	2B/K8	none
1B	2A/K2	none	none	2A/K3	2A/K6	2A/K5	2A/K8	2A/K7
2A	1B/K2	1B/K1	1B/K4	1B/K3	1B/K6	none	none	1B/K7
2B	1A/K2	1A/K1	1A/K4	none	none	1A/K5	1A/K8	1A/K7

Table II. Band Select Matrix Conflicts ("none" means that there is no possible conflict that does not also create a BAND MATCH! violation).

The conflicts in Table II must be specifically locked out in the control program, which should create a MATCH! violation. There are 24 conflict states.