

ICOM ICB 1050 Notes

Intro

These notes were compiled a long time ago, possibly around 1982 when these radios were readily available.

The original notes were taken from an article published in Short Wave Magazine by G3XSE. These allowed a quick conversion on to 29MHz by moving a few wires. I improved on these by changing the synthesizer steps from 10kHz to 5kHz and adding a +5kHz offset switch.

The disadvantage of this method is that the 40 channels do not all run sequentially, you will have to figure those out for yourself! Later SWM articles by G4LBW used additional boards using 4008 cmos binary adders to give a repeater offset and correct the display.

Improved Version

This was a later improvement I carried out for Brian G4MEO. I programmed an EPROM with the correct offsets and a repeater shift giving full coverage from 29.310MHz (CH1) to 29.700MHz(CH40). The circuit is shown here along with the programming details for the 2732 EPROM.

Have fun!

Nick G4IRX 25th January 2006.

Original wiring

Original Switch.

Pin 6 (5/10kHz) High (dio)
Pin 10 low (dio)

<u>Pins</u>		
11	mauve	640.
12	blue	320
13 13	Green	160
14	yellow	80
15	orange	40
16	Red	20
17	Red Pink Brown	10
18	Pink	(five to Bcd)

Mod to allow 5kHz offset

Modify to

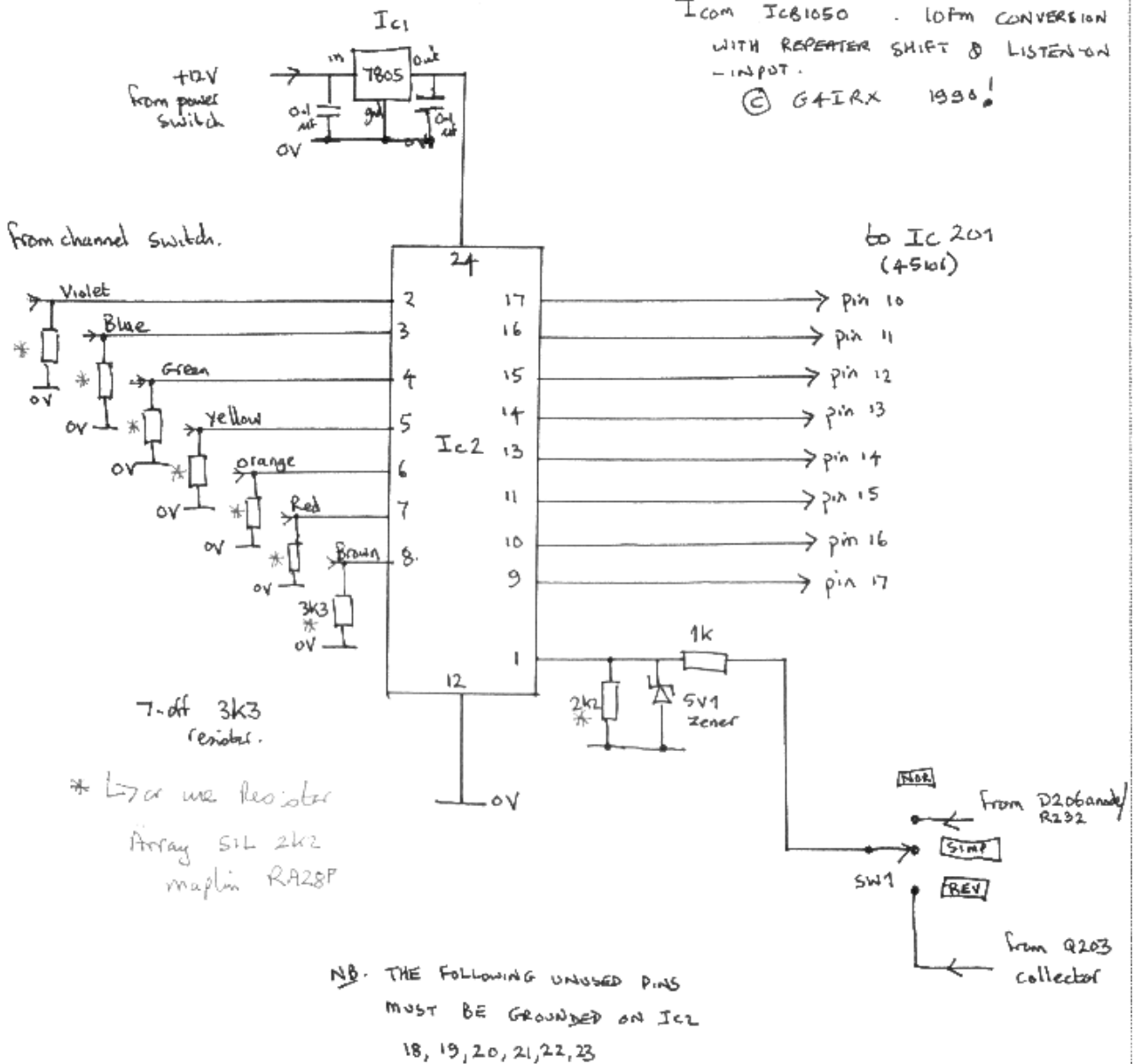
Pin 6 Low (to gnd)
Pin 17 Dis (up 5kHz)

10	mauve
11	blue
12	green
13	yellow
14	orange
15	red
16	brown
18	Pink.

Original "Quick Mod"

10 m mod.
Link 9, 10, 11 via 10k to +ve
(pin 1)
dis card green
put violet to pin 12

EPROM Board Circuit



EPROM Programming

NORMAL.

0020	All	00						
0028	D3	D4	D5	D6	D7	D8	D9	DA
0030	DB	DC	DD	DE	DF	E0	E1	E2
0038	E3	E4	E5	E6	E7	E8	E9	EA
0040	EB	EC	ED	EE	EF	F0	F1	F2
0048	F3	F4	F5	F6	F7	F8	F9	FA
0050	All	00.						

Repeat

00A0	All	00						
00A8	C4	CA	CB	CC	CD	CE	CF	D0
00B0	D1	D2	D3	D4	D5	D6	D7	D8
00B8	D9	DA	DB	DC	DD	DE	DF	E0
00C0	E1	E2	E3	E4	E5	E6	E7	E8
00C8	E9	EA	EB	EC	ED	EE	EF	F0
00D0	All	00.						