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CXCD740 Operation description of transmitter

This transmitter is a wireless CD player and the operational description is as follows:

The IC BH1417F are “wireless audio link IC” which send music or audio from CD by FM radio waves, and you can enjoy music or audio with a built-in FM receiving tuner in the audio equipment.

The IC consist of pre-emphasis circuit which improves S/N, limiter circuit which prevents over-modulation, low pass filter (LPF) circuit which limits the maximum modulation frequency, stereo modulation circuit which generates stereo composite signal and FM transmitter circuit with phase locked loop (PLL) frequency synthesizers to transmit FM signal.

The transmitter IC

IC pin 1,2,21 and 22 for pre-emphasis setup.

IC pin 4 for ripple filter of power supply

IC pin 5 for modulation rate adjust

IC pin 3 and 20 for low pass filter

IC pin 7 for PLL loop filter and through Q21 transistor to control the VCO voltage

IC pin 11 for RF output and through transistor Q37, Q47 buffer amplifier for transmitter output.

IC pin 13,14 for X'tal oscillator

IC pin 15,16,17 and 18 for input of dip switch setting for frequency.

pin 15	pin 16	pin 17	pin 18	frequency
L	L	H	L	88.5Mhz
H	L	H	L	88.7Mhz
L	H	H	L	88.9Mhz
L	L	L	H	106.7Mhz
H	L	L	H	106.9Mhz
L	H	L	H	107.1Mhz
H	H	L	H	107.3Mhz
L	L	H	H	107.5Mhz

IC pin 18 for audio mute

IC pin 19 for separation adjust