

Alignment Procedure

EC-W100 Wireless Launch Principle

1. IC U_3 is a master controller, it controls the key operation, data transmission and audio frequency modulation etc. U_2 UTC 31101 is an audio frequency compression expand IC. U_1 MCD62429 is a PLL IC.
2. Audio frequency two ways signal from the left & right channel are through respectively via R_1 , R_3 , R_4 and R_5 and then the signals are sent to U_2 to be expansion and compression. After that, the signal are sent to Q_2 for filter and amplification filter and amplification and created the stereo signals through R_{13} , R_{21} and MCU. Finally, they enter PLL circuit to have FM modulation.
3. PLL circuit is consisted by Q_3 , C_{26} , C_{29} , C_{30} , D_1 and U_1 which generate RF signal. RF signal is buffered and amplified by Q_4 and Q_5 and launched out by antenna.
4. U_4 Power AC power manostat circuit:
RF power controlling circuit is consisted by Q_6 and Q_7 .
Nickel-hydrogen battery is consisted by U_5 , M1708, Q_8 , TL431, Q_{10} , Q_{12} , M_1 and R_{62} .
Charging management circuit controls the charging currency and charging voltage and the charging status is displayed by LED3. Q_8 TL431 is a reference voltage of the charging management IC. Q_9 and R_{53} for checking if the batteries are fixed or not.