

Circuit description :

A. Power pack (DC12V BY CAR)

a. Storage battery--→ J2 mains switch---U3 voltage booster circuit (5V) --→R15 50K regulation resistance--→supply power from amplifying circuit Q3 & Q4.U1 3.3V LDO (3.3V) -→ U6,U7,U8,U9,U2,U4,U11,D3 positive degree ,Q1supply power by emitter region.U5 (4.2V LDO detection IC, when the voltage of dry batteries is lower than 4.2V, LCD will lack of one blank on top left corner)--→U6 Foot no.5 U5-1(3.8V LDO detection IC, when the voltage of dry batteries is lower than 3.8V, LCD will lack of 2 blanks on top left corner, and it will flashes at the same time.) --→U6 Foot no.6

B. Line in:

Line in is enlarged by U8---→Emission module U9

C. Mic-phone in:

Micphone microphone circuit is placed by U11 --→U4 enlarge--→U8 enlarge---→Emission module U9.

D. Display

U7 Foot 9 chip selection, Foot 11 is clock, Foot 12 data is energized with U6 Foot 9, Foot 8 and Foot 7, then it will display on LCD characters

E. Emission

Emission signals is enlarged by U8, then stored into U9. U9 Foot 7 & Foot 12, Foot 13 are energized with U6 Foot 21, Foot 18 and Foot 19, then after enlarged by Q3 & Q4, then it will transmits out from ANT cable

F. Buttons

Memory key S1 M3 (U6 Foot 12 and Foot 14 control)
 S2 M2(U6 Foot 11 and Foot 14 control)
 S3 M1(U6 Foot 10 and Foot 14 control)

Volume key VOL + Button S6(U6 Foot 10 and Foot 15 control)
 VOL – Button S5(U6 Foot 12 and Foot 15 control)
 MUTE Button S4(U6 Foot 12 and Foot 15 control)

Pre emphasis button S7 (U6 Foot 13 and Foot 16 control)
Stereo and Mono button S8(U6 Foot 12 and Foot 16 control)
Frequency + button S10(U6 Foot 10 and Foot 16 control)
Frequency – button S9(U6 Foot 11 and Foot 16 control)