

## APPENDIX

### CIRCUIT TO SUPPRESS SPURIOUS RADIATION AND CONTROL MODULATION

#### Audio circuit

- The signal inputted into CN1-No3 is inputted into IC1B through VR2 gain control.
- The signal inputted in CN1-No2 is inputted into IC1B through Q1 Buffer-Amp, VR2 gain control.
- AF signal inputted into IC1B is amplified inside IC.
- The amplified signal is compressed by 2:1 with IC2 compandor, simultaneously controlling the level of AF signal inputted by the reciprocal action of Q2, IC2, and IC1B.
- The compressed signal passes pre-emphasis processing in IC1A, and level adjustment in VR3, before its output.
- The oscillated signal of 32.768khz by IC3 and X1, mixes with AF signal after passing through IC4 Buffer-Amp, VR4, and IC5.
- The level-adjusted MIX signal is inputted into VCO101 No1.

#### Modulator circuit

- Inputted signal becomes modulation signal inside VCO.
- Modulated RF signal outputs from VCO, then amplified in RF amplification circuit.

#### RF pre-amplifier and final amplifier

- RF signal outputted from VCO is amplified in Q101, Q102, and Q103.
- Q001 and Q104 are RF-SW.
- Amplified RF signal is adjusted to 10mW by VR101.
- Amplified RF signal controls its level of higher harmonics by passing through L1-6-L110, C141-C145 low-pass filters
- The signal passing through the low-pass filters is emanated through an antenna connected to CN001.

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