

KENWOOD

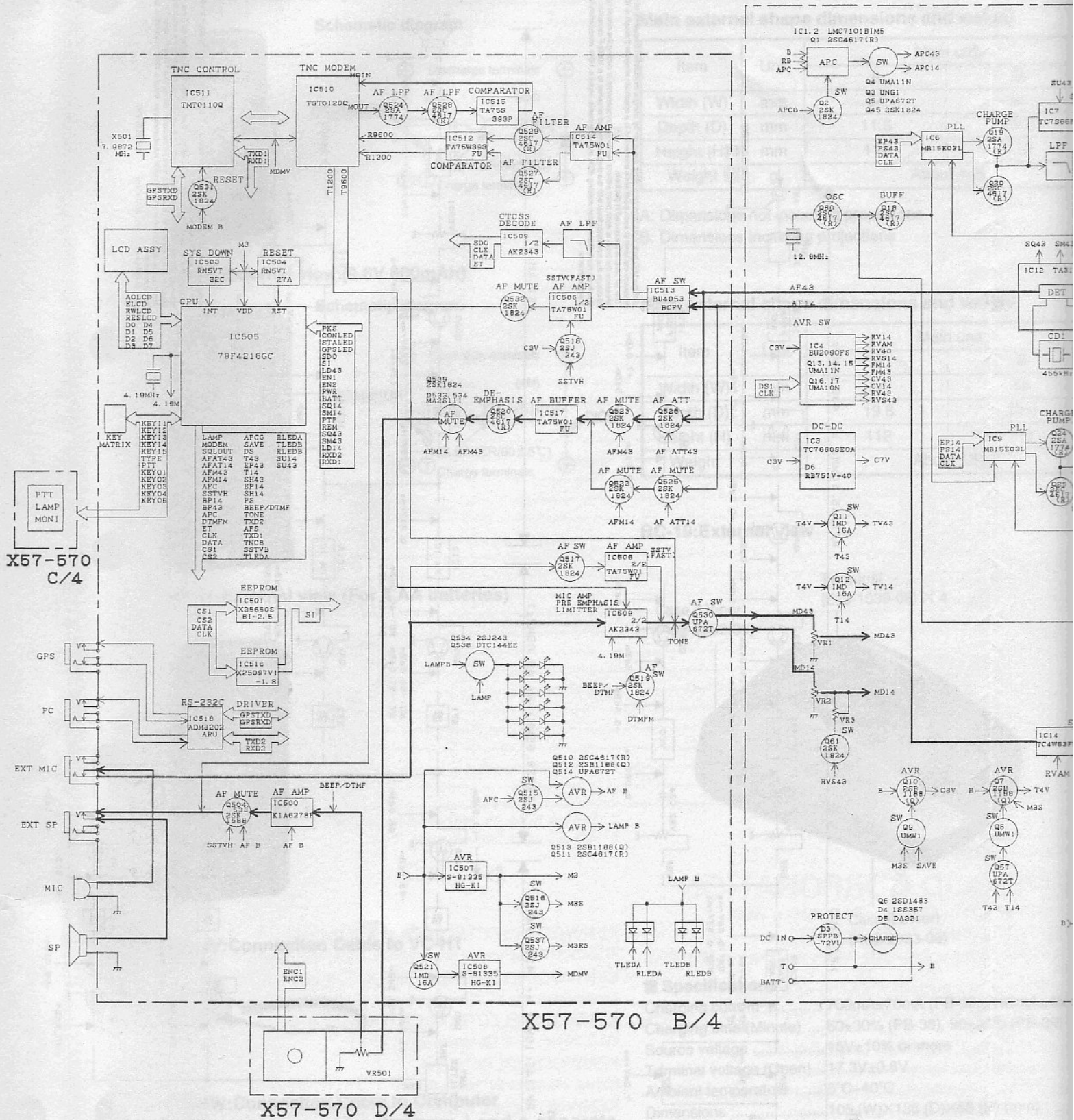
Schematic Diagram

DOBLE BANDA DE 144/440 MHz FM
TH-D7A(G)

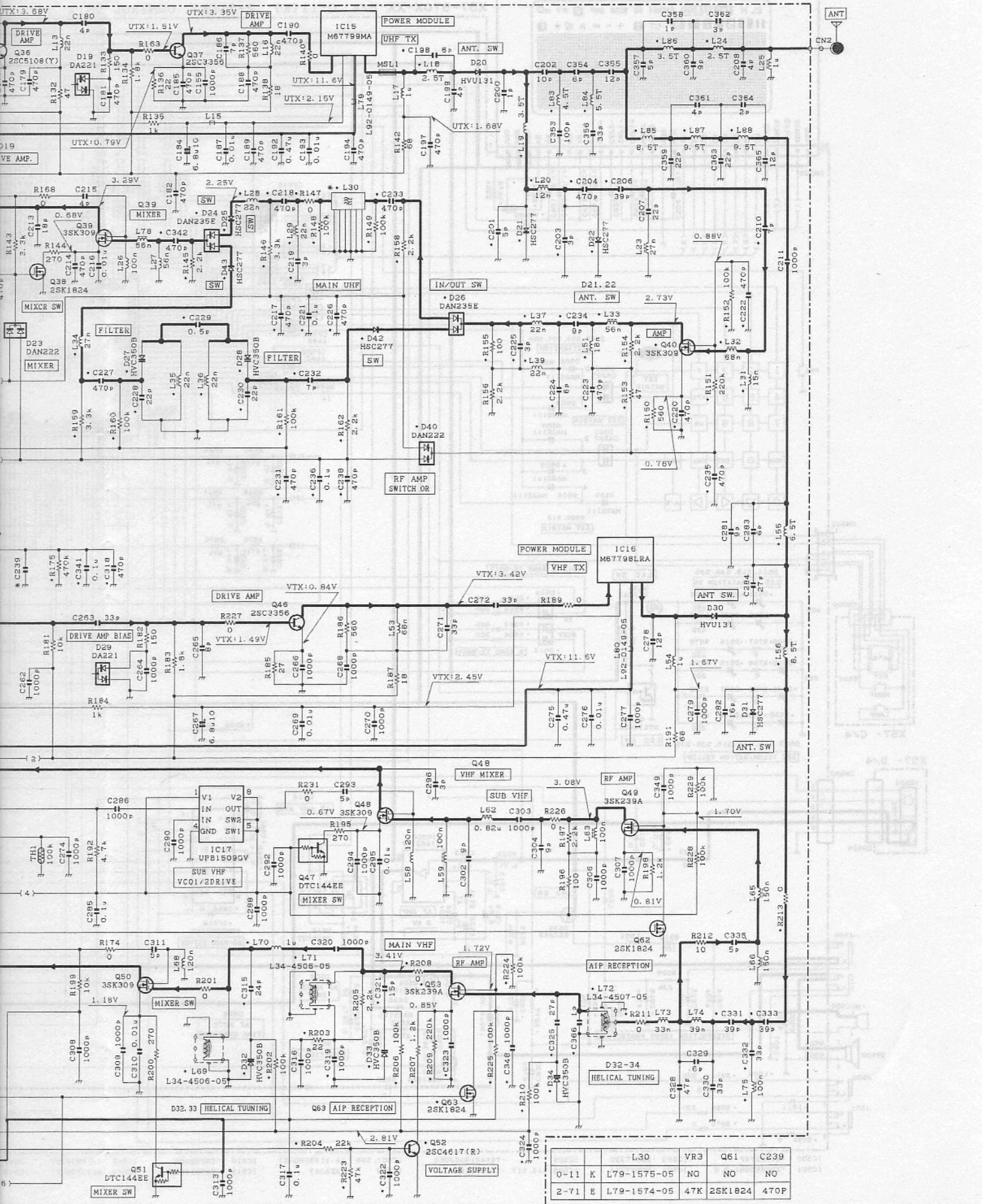


TH-D7A/E TH BLOCK DIAGRAM

BATTERY CASE / POWER PO-4W (CONNECTION CASE)
 (C.V. 500MHz)



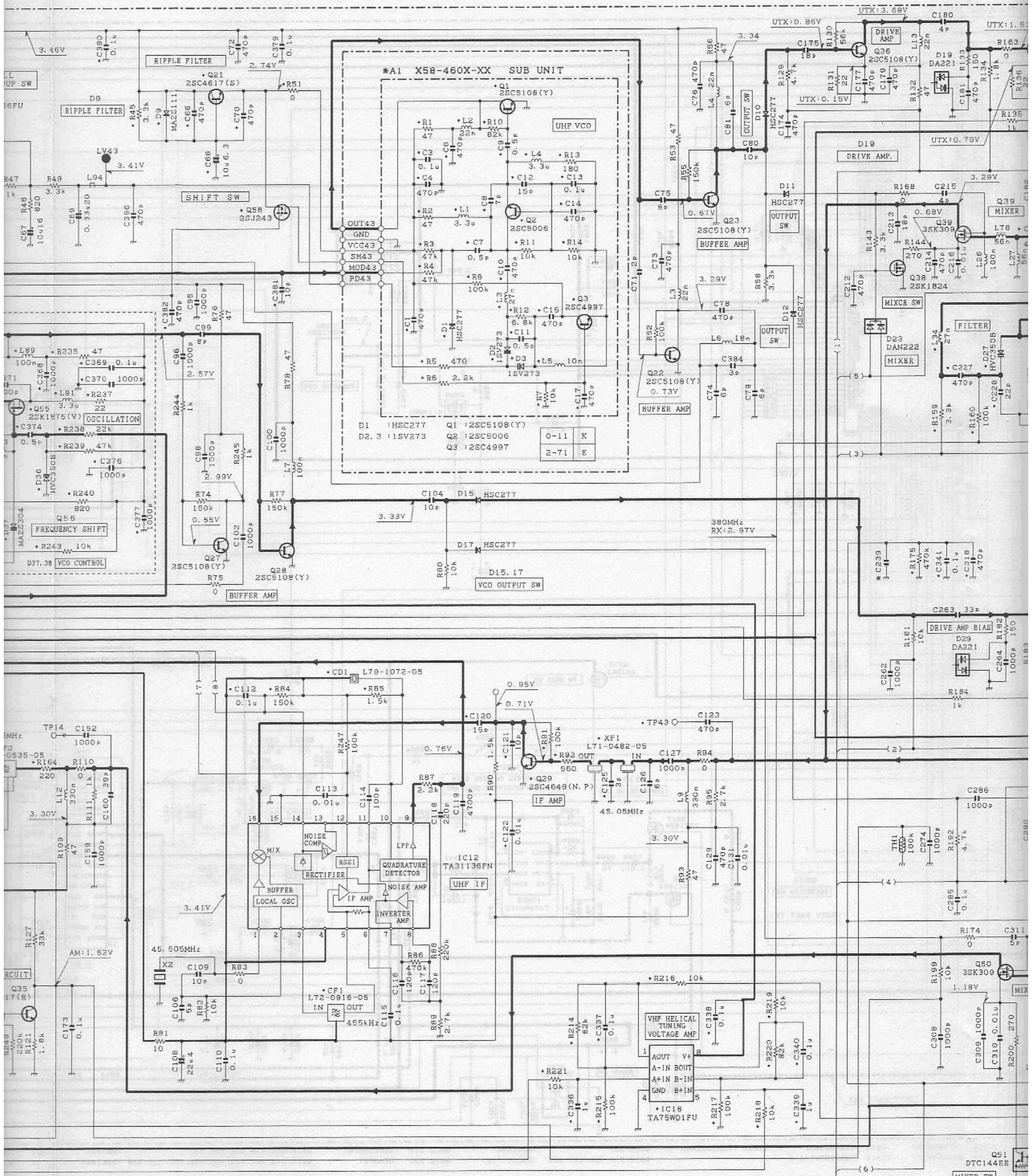
pattern 1.



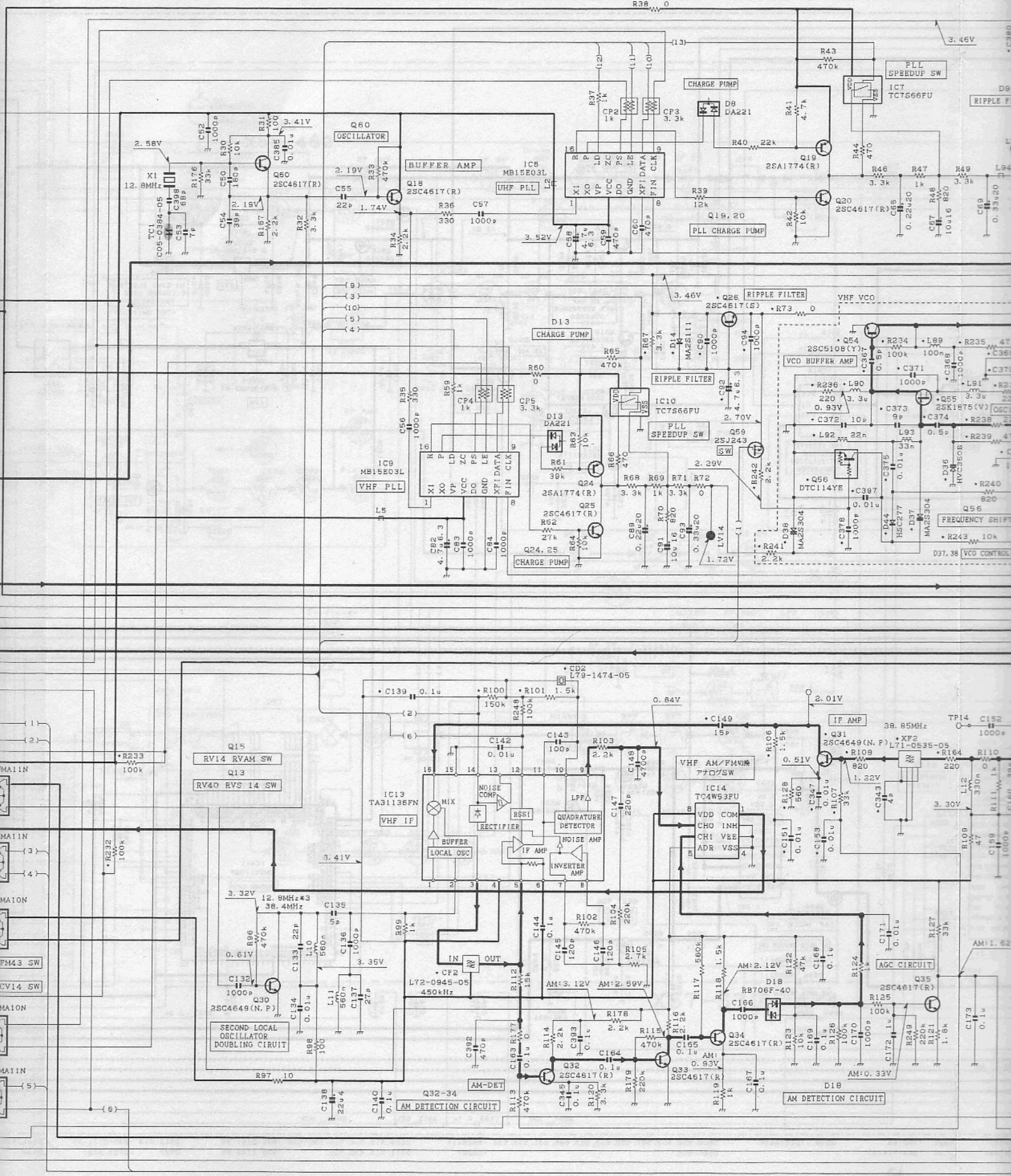
| | | | |
|--------|-------------|-----|--------------|
| L30 | VR3 | Q61 | C239 |
| 0-11 K | L79-1575-05 | NO | NO |
| 2-71 E | L79-1574-05 | 47K | 2SK1824 470P |

- IC1 : LMCT101B1M5 IC4 : BU2090PF IC7, 10 : TC7S66FU IC14 : TC4W53FU IC16 : M67797LRA IC18 : TA75W01FU
- IC2 : TC7660SEOA IC5 : MB15E03L IC12, 13 : TA31136FN IC15 : M67799MA IC17 : UPB1509GV
- IC3 : TC7660SEOA IC6 : MB15E03L IC11 : TC7S66FU IC13 : TA31136FN IC15 : M67799MA IC17 : UPB1509GV

Note) ● Ref. No. : Parts of pattern 1.



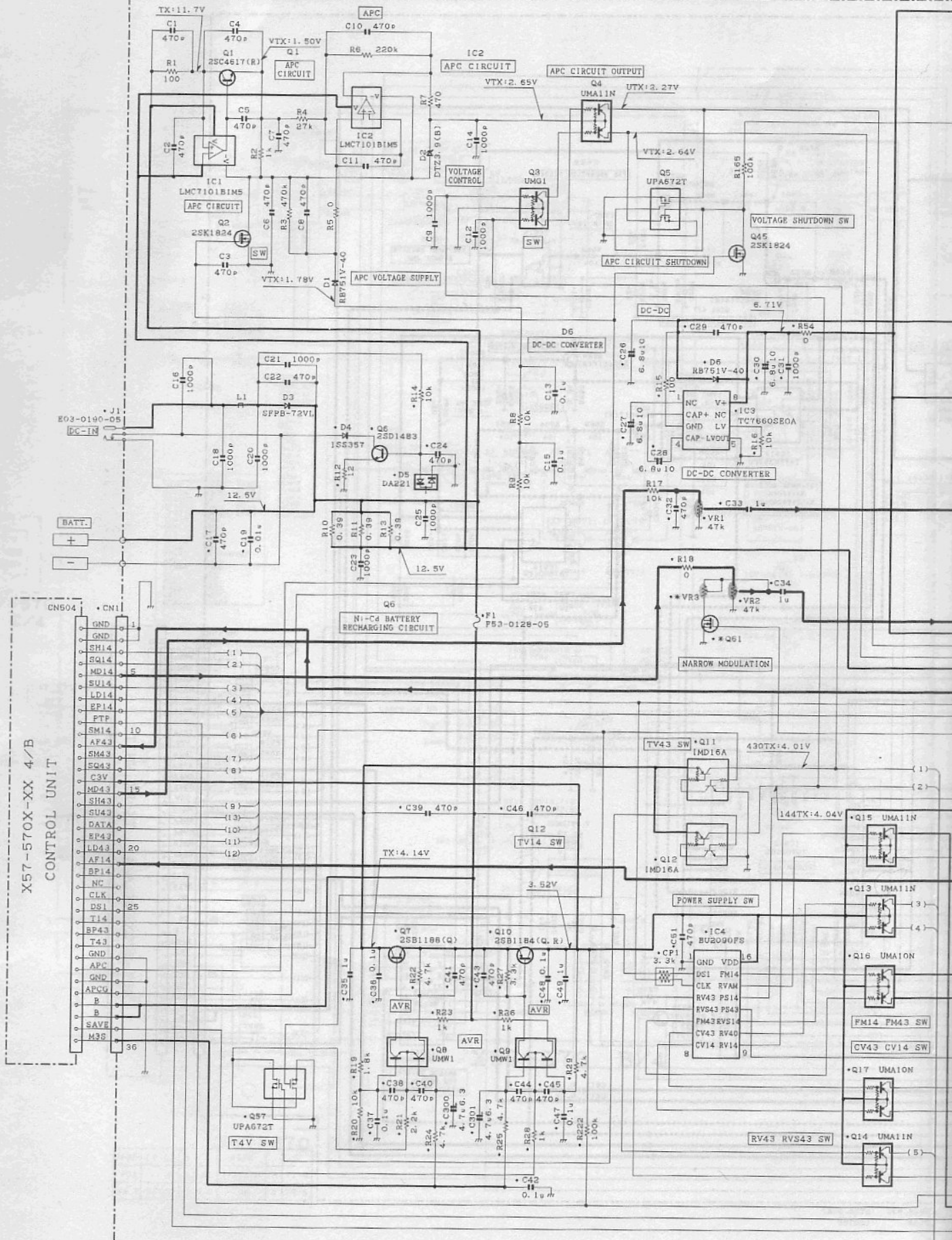
| | | | | | | |
|---------------------|---------------------------------|-----------------------|-----------------------|------------------|-----------------|-------|
| Q16.17 : UMA10N | Q21.26 : 2SC4617(S) | Q29-31 : 2SC4649(N.P) | Q39.40.48.50 : 3SK309 | Q49.53 : 3K239A | Q56 : DTCL144E | IC1.2 |
| Q19.24 : 2SA1774(R) | Q22.23.27.28.36.54 : 2SC5108(Y) | Q37.46 : 2SC3356 | Q47.51 : DTC144EE | Q55 : 28K1875(V) | Q58.59 : 2SJ243 | IC3 |



DAN235E D37.38 MA2S304 Q1.18.20.25.32-35.52.60 :2SC4617(R) Q3 :UMG1 Q5.57 :UPA672T Q7 :2SB1188(Q) Q10 :2SB1184(Q.R) Q16.17 :UMA10
HVC350B Q2.38.45.61-63 :2SK1824 Q4.13-15 :UMA11N Q6 :2SD1483 Q8.9 :UMW1 Q11.12 :1MD16A Q19.24 :2SA11

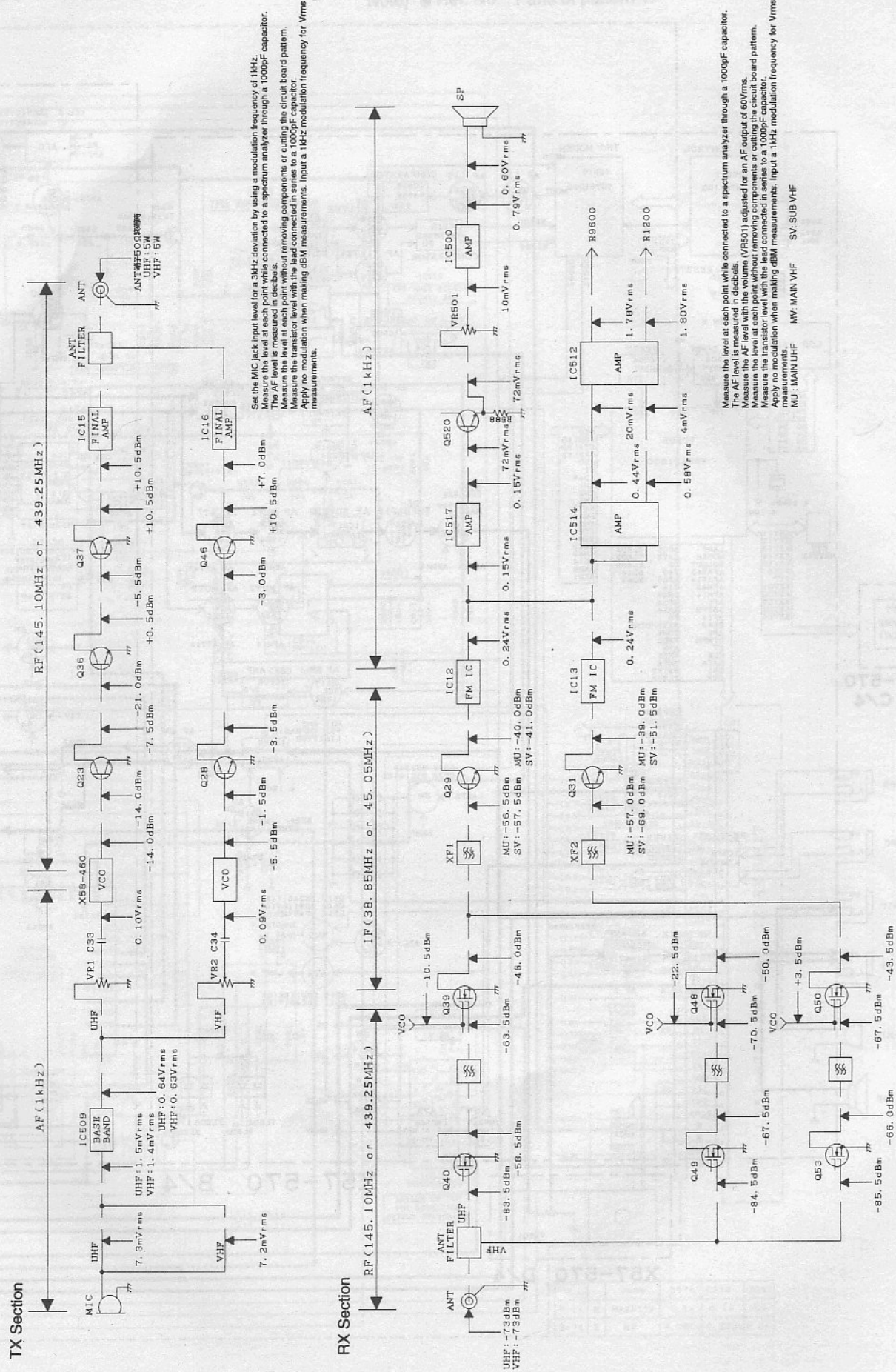
X57-570X-XX 4/A 0-11(K) 2-71(E) RF UNIT

BLOCK DIAGRAM



D1. 6 : RB751V-40 D3 : SFPB-72VL D5. 8. 13. 19. 29 DA221 D9. 14 : MA25111 D20. 30 : HVU131 D24. 26 DAN235E
 D2 : DTZ3. 9(B) D4 : ISS357 D10-12. 15. 17. 21. 22. 25. 31. 42-44 HSC277 D18 : RB706F-40 D23. 40 : DAN222 D27. 28. 32-34. 36 : HVC350B

LEVEL DIAGRAM



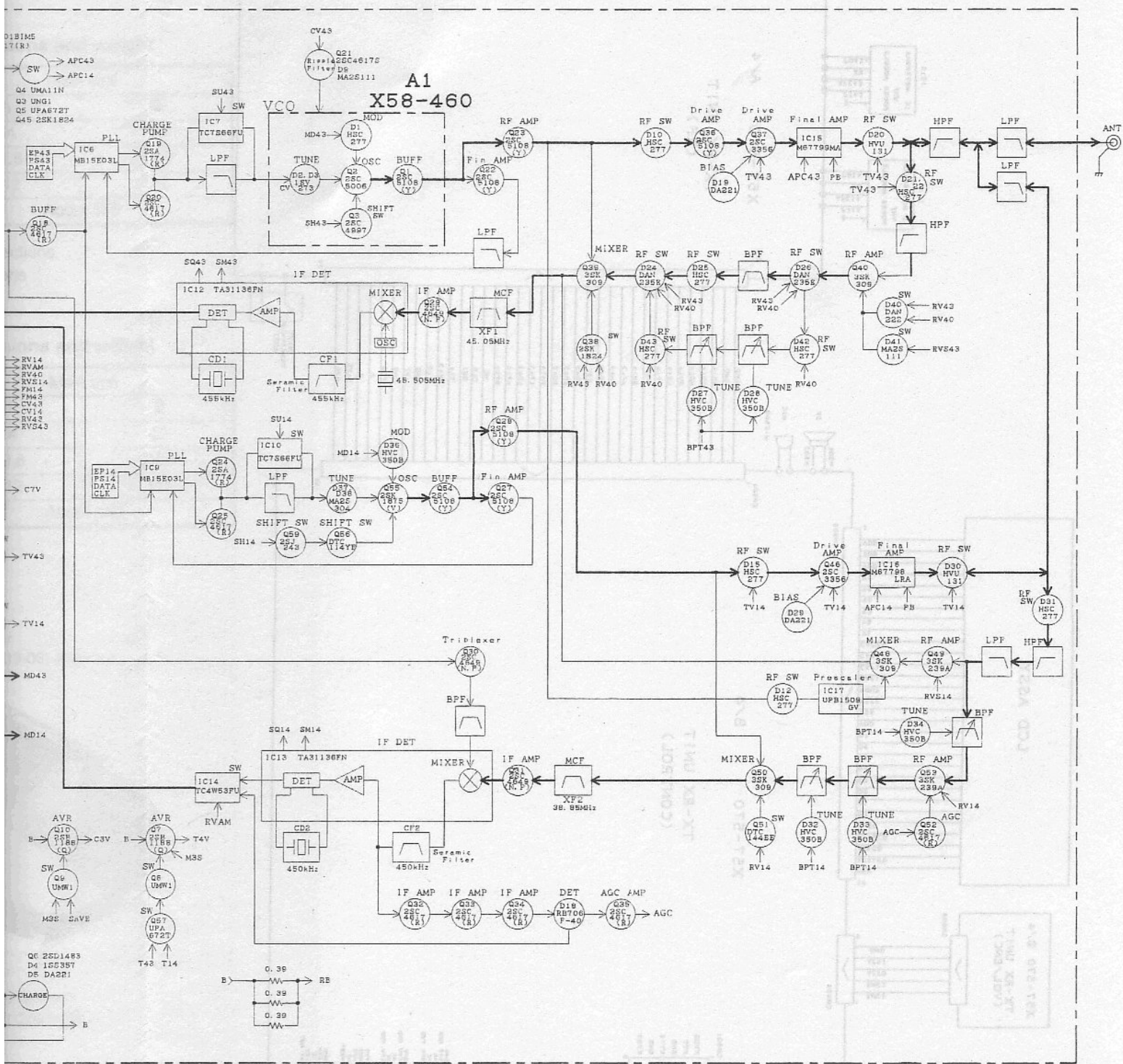
Set the MIC jack input level for a 3kHz deviation by using a modulation analyzer with a 1000pF capacitor. Measure the level at each point while connected to a spectrum analyzer through a 1000pF capacitor. The AF level is measured in decibels. Measure the level at each point without removing components or cutting the circuit board pattern. Measure the transistor level with the lead connected in series to a 1000pF capacitor. Apply no modulation when making dBm measurements. Input a 1kHz modulation frequency for Vrms measurements.

Measure the level at each point while connected to a spectrum analyzer through a 1000pF capacitor. The AF level is measured in decibels. Measure the AF level with the volume (VR001) adjusted for an AF output of 60Vrms. Measure the level at each point without removing components or cutting the circuit board pattern. Measure the transistor level with the lead connected in series to a 1000pF capacitor. Apply no modulation when making dBm measurements. Input a 1kHz modulation frequency for Vrms measurements. MU: MAIN UHF MV: MAIN VHF SV: SUB VHF

V/E TH-D7A/E

WIRING DIAGRAM

MARQAIQ 0MIRIW



X57-570 A/4