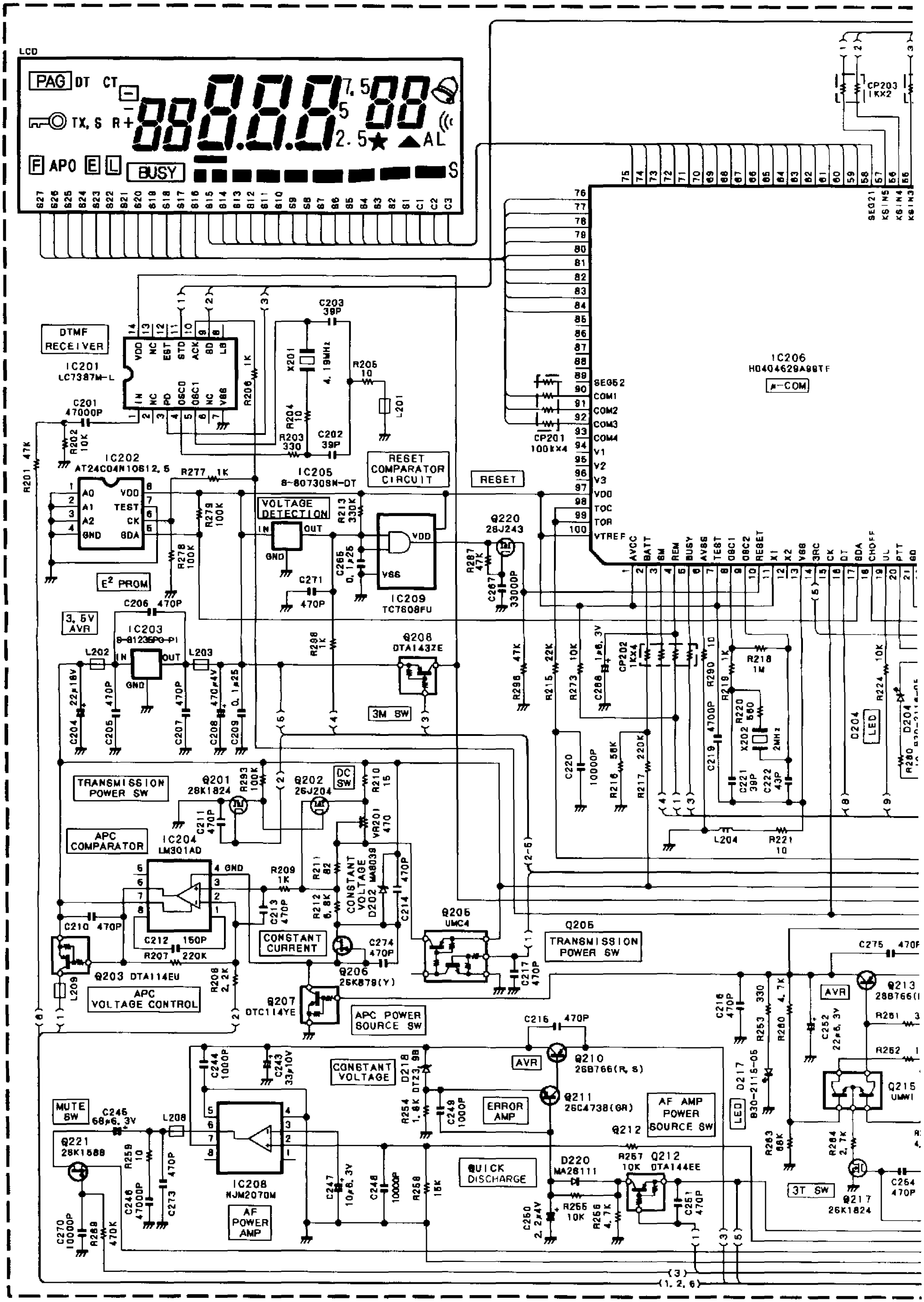
# TH-42A/42AT/42E SCHEMATIC DIAGRAM



TX-RX UNIT X57-438X-XX(B/4)

X57-C/4 PTT

X57-D/4 FUNCTION KEY

TX

CN201 COM MONI LAMP PTT E E

CN301 MONI LAMP PTT S301

D206-216 REVERSE FLOW PREVENTION

T/CT KOUT1 REV KOUT0

D215 HN2001FU

D216 MA28111

SM TUNING MEMORY INPUT CH DISPLAY OFF

CP204 1KX4

CP205 1KX2

CP206 1KX4

CP207 2.2KX4

CP208 2.2KX4

A4 KSIN0 KOUT3 KOUT2 KOUT1 KOUT0

F VFO MR CALL

CN202 KSIN5 KSIN4 KSIN3 KSIN2 KOUT3 KOUT2 KOUT1 KOUT0

*A

SINO KOUT3 KOUT2 KOUT1 KOUT0 EP ET GMCAL MRWT PD AFCO MUTE 3T8 H/L EL 3M8 TX NC TO AFC1 BEEP INT4 ON UP STD LAMP SAVE SDO

IC207 TA75W558FU MIC AMP

Q209 2SK1824

MUTE SW

Q214 2SB766(R, S) AVR

Q216 UMW1 DIFFERENTIAL DC AMP

Q219 DTA143ZE 3R SW

Q218 2SK1824 3C SW

D205 LED

L205 L206 L207

SP MIC J201 3M MIC PTT AFO SP REM E

CN203 MUTE SB NC BUSY AF SM CI UP 3M DN APC RB EP ASB DT E UL 3R CK 3C TX 3T MOD

CN1 MUTE SB NC BUSY AF SM CI UP 3M DN APC RB EP ASB DT E UL 3R CK 3C TX 3T MOD

CN204 CK DT ET NC GDO E 3M CI

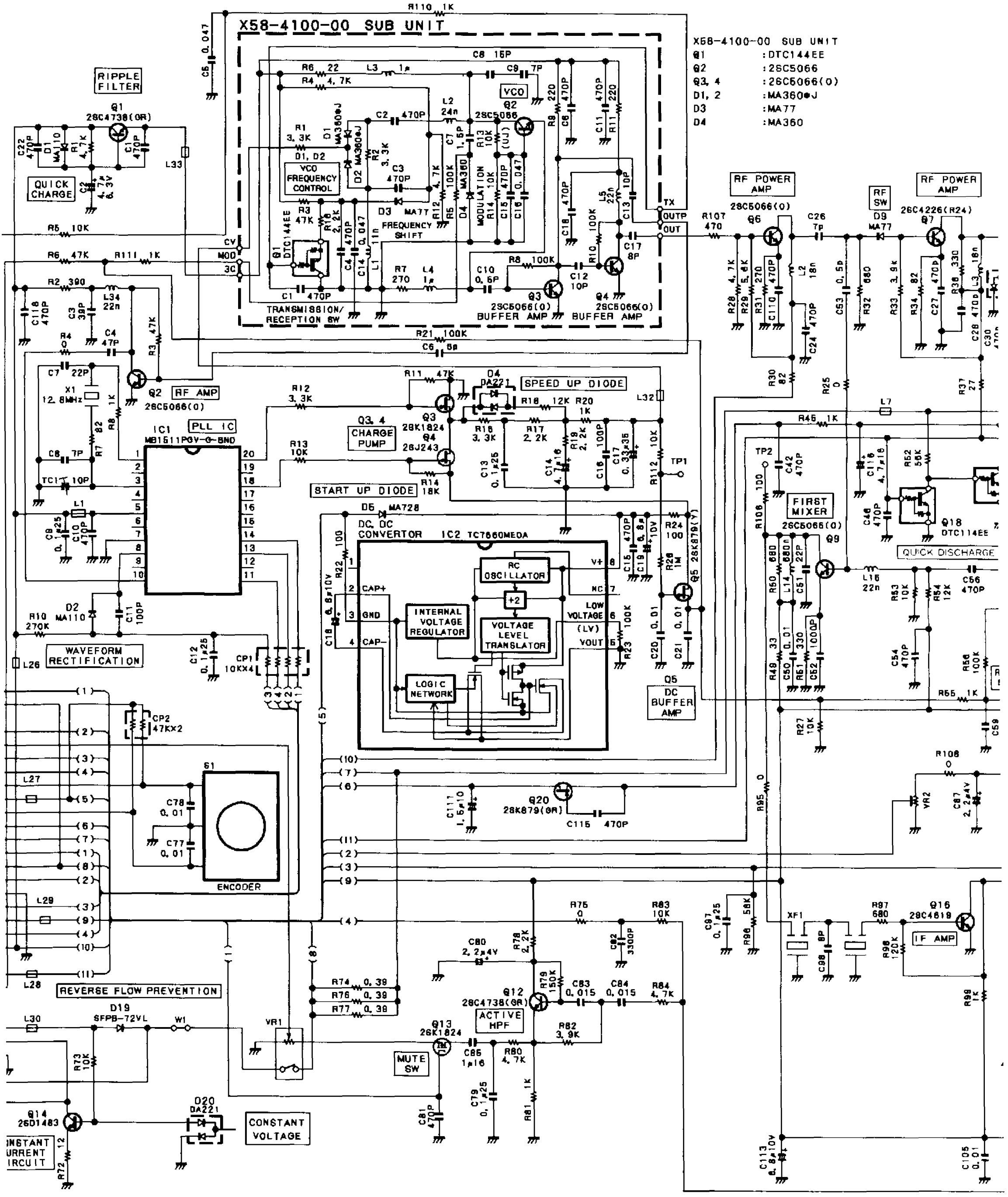
TSU-8 X52-3290-00 CTCSS UNIT OPTION

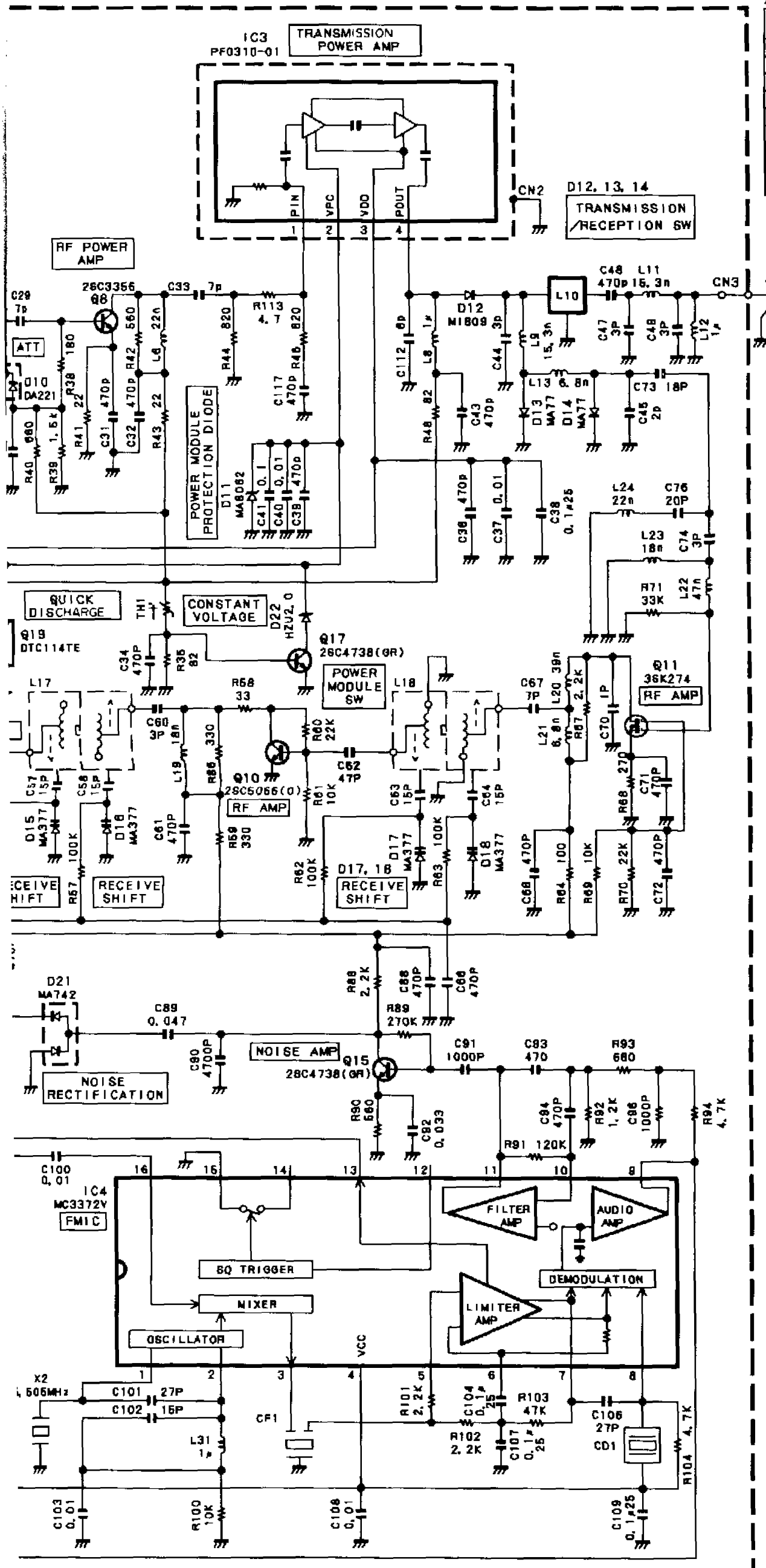
J1 DC 13.8V

R402 2.2K

X58-4100-00 SUB UNIT

| | |
|---|---|
| Q1 | :DTC144EE |
| Q2 | :2SC5066 |
| Q3, 4 | :2SC5066(O) |
| D1, 2 | :MA360●J |
| D3 | :MA77 |
| D4 | :MA360 |






X57-(B/4)

| | | 0-xx | D208 | D209 | D212 | D213 | *A |
|---|---|---|---|---|---|---|---|
| TH-42AT | K | 0-11 | YES | YES | NO | NO | YES |
| TH-42A | M | 0-21 | YES | NO | YES | YES | OPTION |
| TH-42AT | M | 0-21 | YES | NO | YES | YES | YES |
| TH-42A | M2 | 0-22 | NO | NO | YES | YES | OPTION |
| TH-42AT | M2 | 0-22 | NO | NO | YES | YES | YES |
| TH-42E | E | 2-71 | YES | YES | YES | YES | OPTION |
| TH-42AT | E | 2-71 | YES | YES | YES | YES | YES |
| TH-42E | E2 | 2-72 | YES | YES | NO | YES | OPTION |
| TH-42AT | E2 | 2-72 | YES | YES | NO | YES | YES |

(A/4)

| | |
|---|---|
| IC1 | :MB1511PFV-G-BND |
| IC2 | :TC7660MEOA |
| IC3 | :S-AU57 |
| IC4 | :MC3372V |
| | |
| D1, 2 | :MA110 |
| D4, 10, 20 | :DA221 |
| D5 | :MA728 |
| D9, 13, 14 | :MA77 |
| D11 | :MA8062 |
| D12 | :MI809 |
| D15, 16, 17, 18 | :MA377 |
| D19 | :SFPB-72VL |
| D21 | :MA742 |
| D22 | :HZU2, 0 |
| | |
| Q1, 12, 15, 17 | :2SC4738(G, R) |
| Q2, 6, 9, 10 | :2SC5066(O) |
| Q3, 13 | :2SK1824 |
| Q4 | :2SJ243 |
| Q5 | :2SK879(Y) |
| Q7 | :2SC4226(R24) |
| Q8 | :2SC3356 |
| Q11 | :3SK274 |
| Q14 | :2SD1483 |
| Q16 | :2SC4619 |
| Q18 | :DTC114EE |
| Q19 | :DTC114TE |
| Q20 | :2SK879(GR) |

(B/4)

| | |
|---|---|
| IC201 | :LC7387M-L |
| IC202 | :AT24C04N10SI2.5 |
| IC203 | :S-81235PG-PI |
| IC204 | :LM301AD |
| IC205 | :S-8073SN-DT |
| IC206 | :HD404629A99TF |
| IC207 | :TA75W558FU |
| IC208 | :NJM2070M |
| IC209 | :TC7808FU |
| | |
| Q201, 209, 217, 218 | :2SK1824 |
| Q202 | :2SJ204 |
| Q203 | :DTA114EU |
| Q205 | :UNC4 |
| Q206 | :2SK879(Y) |
| Q207 | :DTC114YE |
| Q208, 219 | :DTA143ZE |
| Q210, 213, 214 | :2SB766(R, S) |
| Q211 | :2SC4738(GR) |
| Q212 | :DTA144EE |
| Q215, 216 | :UMW1 |
| Q220 | :2SJ243 |
| Q221 | :2SK1588 |
| | |
| D202 | :MA8039 |
| D204, D205 | :B30-2116-05 |
| D206-210, 212, 213 | :MA110 |
| D215 | :HN2D01FU |
| D216, 220 | :MA2S111 |
| D217 | :B30-2115-05 |
| D218 | :DTZ3, 9(B) |

**Note:**

Circuits are subject to change without notice due to advancements in technology.