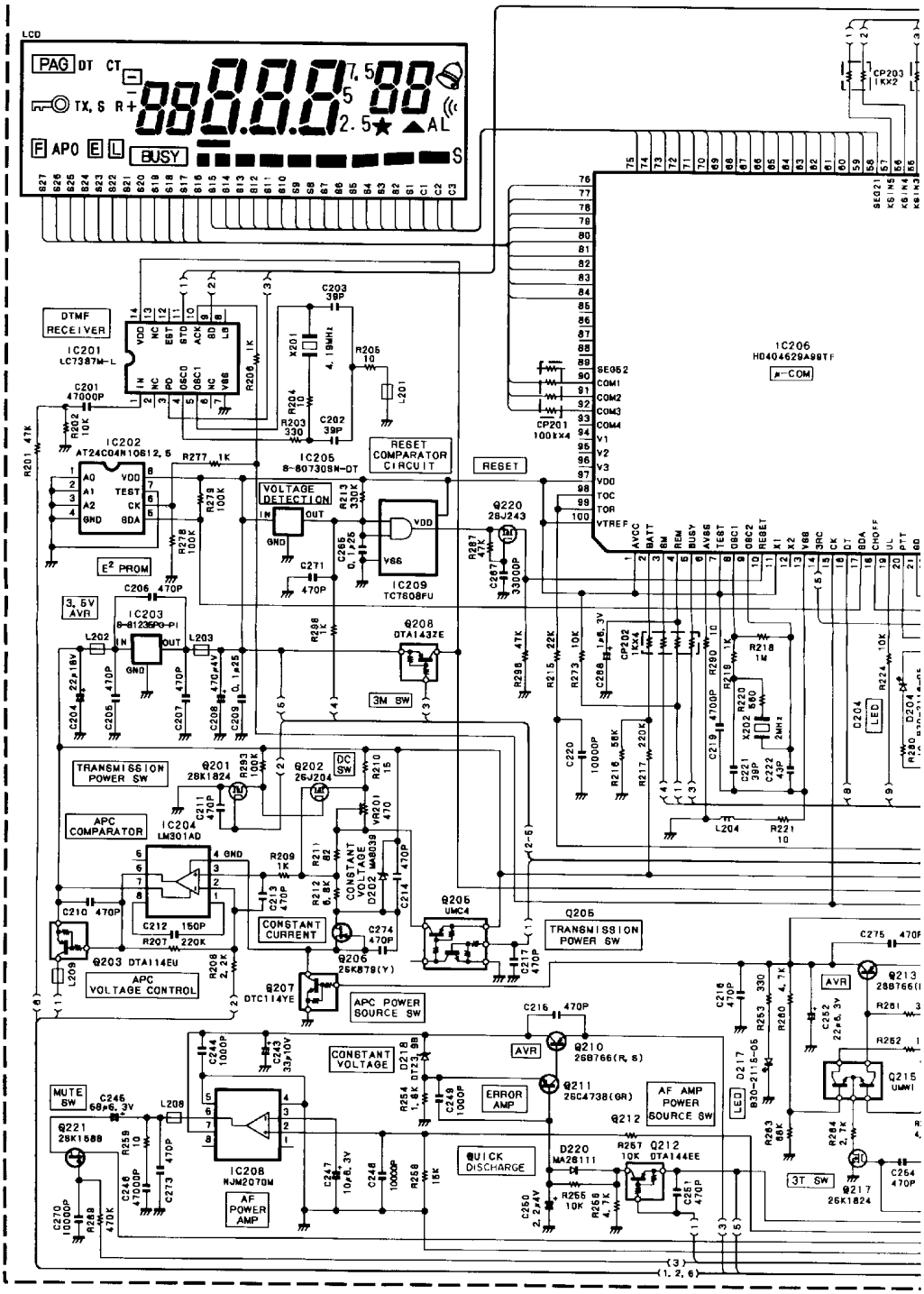
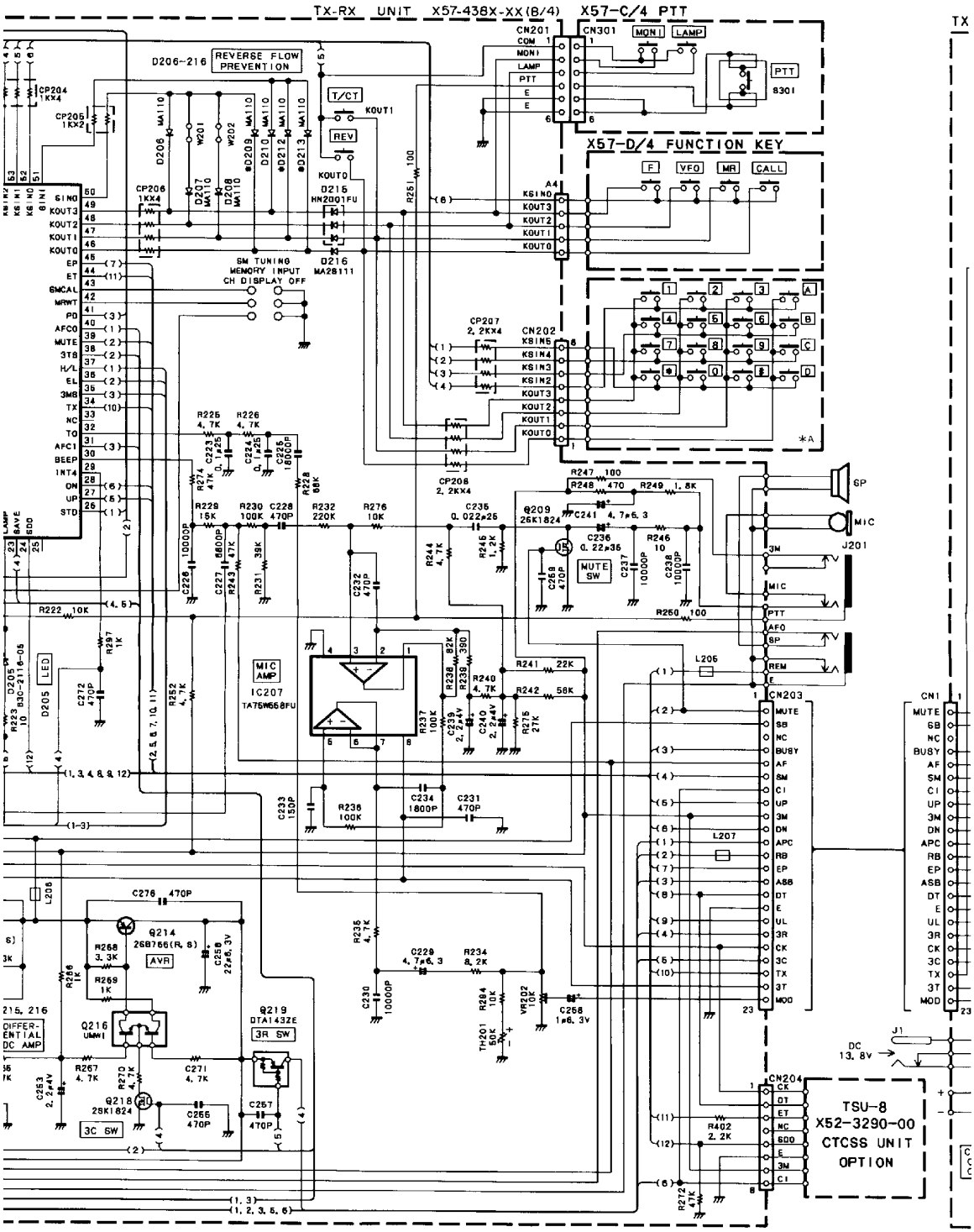
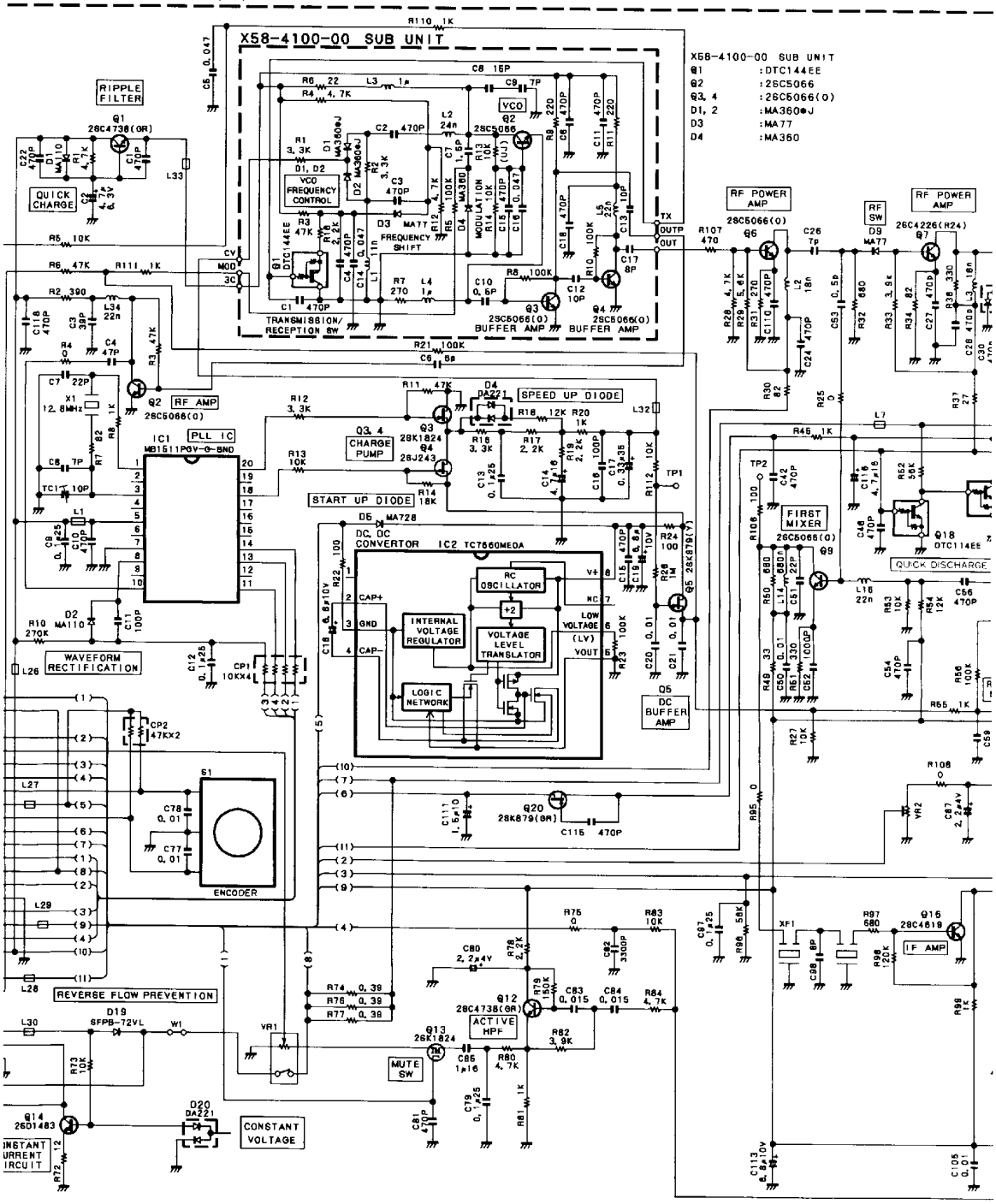
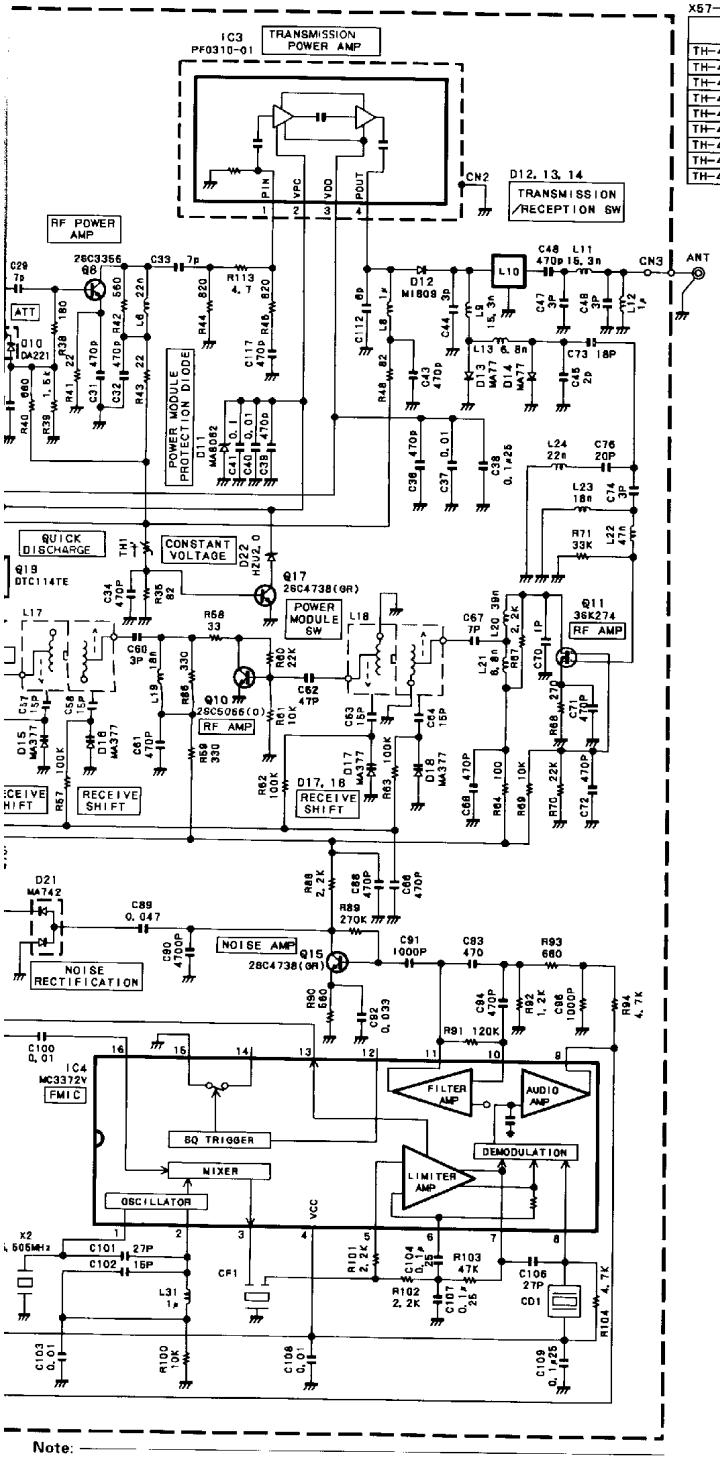
TH-42A/42AT/42E SCHEMATIC DIAGRAM




TX-RX UNIT X57-438X-XX(B/4)
X57-C/4 PTT
X57-D/4 FUNCTION KEY
TX
D206-216 REVERSE FLOW PREVENTION
CN201
CN301
MONI
LAMP
PTT
8301
F
VFO
MR
CALL
T/CT
REV
KOUT1
KOUT0
D215 HN2001FU
D216 MA28111
SW TUNING MEMORY INPUT CH DISPLAY OFF
CP204 1KX4
CP205 1KX2
CP206 1KX4
CP207 2.2KX4
CP208 2.2KX4
CN202
*A
R225 4.7K
R226 4.7K
R247 100
R248 470
R249 1.8K
SP
MIC
J201
R222 10K
R250 100
MUTE SW
Q209 2SK1824
C241 4.7μ6.3
C236 0.22μ35
R246 10
R244 4.7K
R246 1.2K
C235 0.022μ25
R229 15K
R230 100K
C228 470P
R232 220K
R276 10K
C232 470P
C226 1000P
C227 5600P
R243 47K
R231 39K
MIC AMP
IC207 TA75W558FU
R241 22K
R242 56K
R238 82K
R239 390
R240 4.7K
R237 100K
C239 2.2μ4V
C240 2.2μ4V
R275 27K
C233 150P
R236 100K
C234 1800P
C231 470P
L205
L206
L207
CN203
CN1
MUTE
SB
NC
BUSY
AF
SM
CI
UP
3M
DN
APC
RB
EP
ASB
DT
E
UL
3R
CK
3C
TX
3T
MOD
C276 470P
Q214 2SB766(R,S)
AVR
R268 3.3K
R269 1K
C258 22μ6.3V
R266 1K
Q216 UMW1
DIFFERENTIAL DC AMP
Q219 DTA143ZE
3R SW
R267 4.7K
R270 4.7K
C271 4.7K
C253 2.2μ4V
Q218 2SK1824
3C SW
C255 470P
C257 470P
R235 4.7K
C229 4.7μ6.3
R234 8.2K
C230 10000P
R284 10K
VR202 10K
C258 1μ6.3V
TH201 50K
DC 13.8V
J1
CN204
CK
DT
ET
NC
SDO
E
3M
CI
R402 2.2K
R272 47K
TSU-8
X52-3290-00
CTCSS UNIT
OPTION

-RX UNIT X57-438X-XX(A/4)





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, 16, 17	:2SC4738(O, R)
Q2, 6, 9, 10	:2SC5066(O)
Q3, 13	:2SK1824
Q4	:2SJ243
Q5	:2SK879(Y)
Q7	:2SC4226(R24)
Q8	:2SC3356
Q11	:36K274
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	:MA28111
D217	:B30-2115-05
D218	:DTZ3.9(B)

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