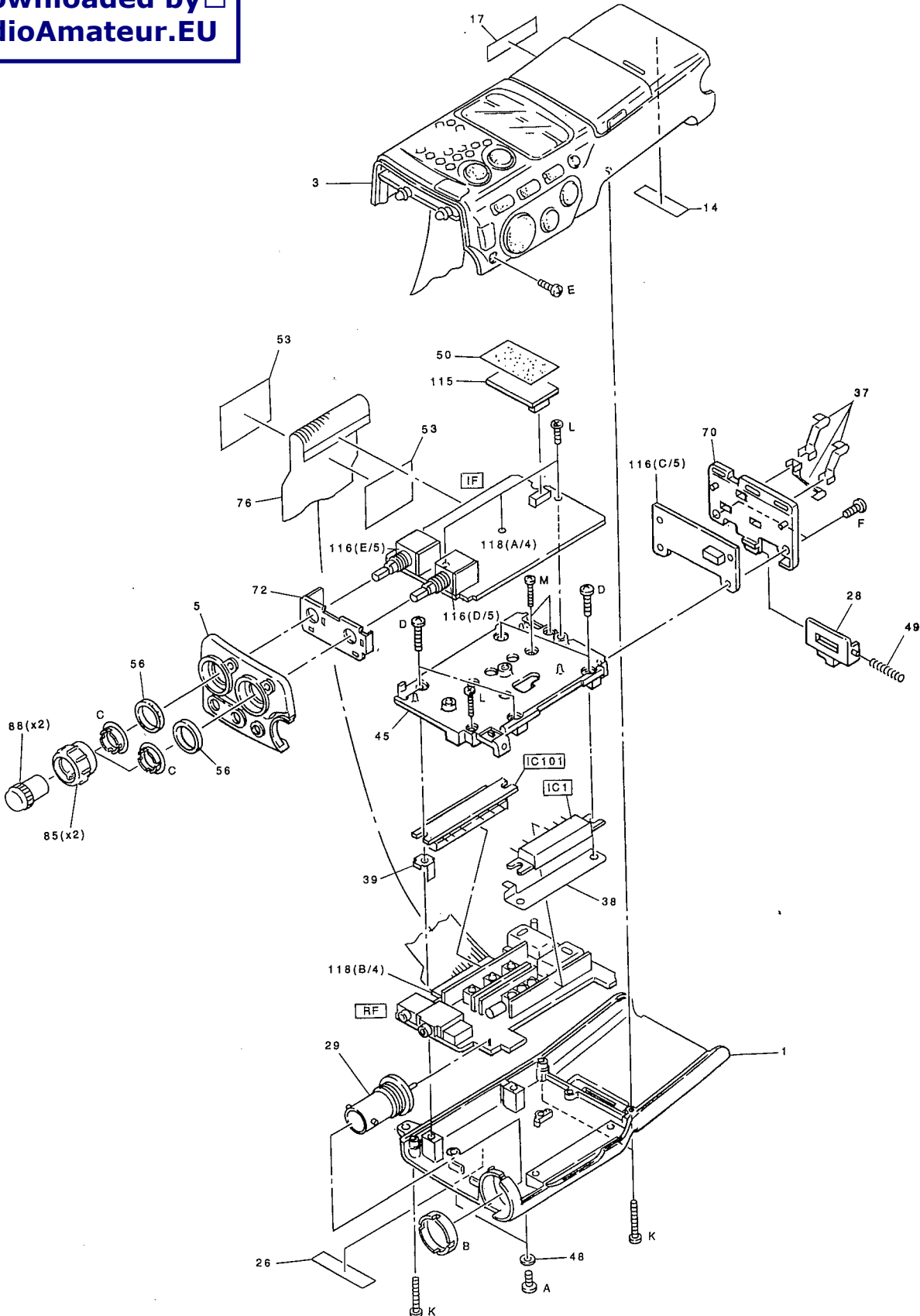


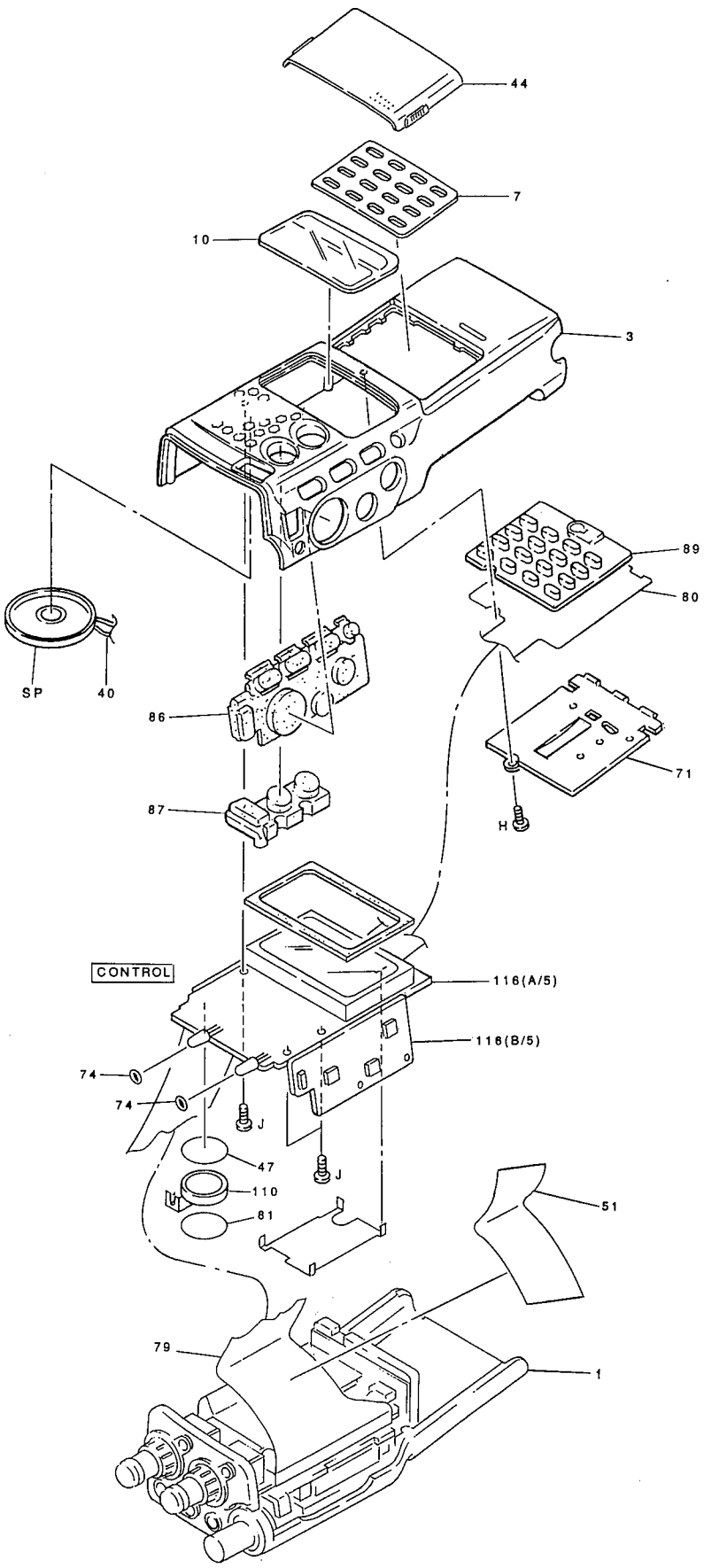
DISASSEMBLY

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Parts with the exploded numbers larger than 700 are not supplied.

DISASSEMBLY

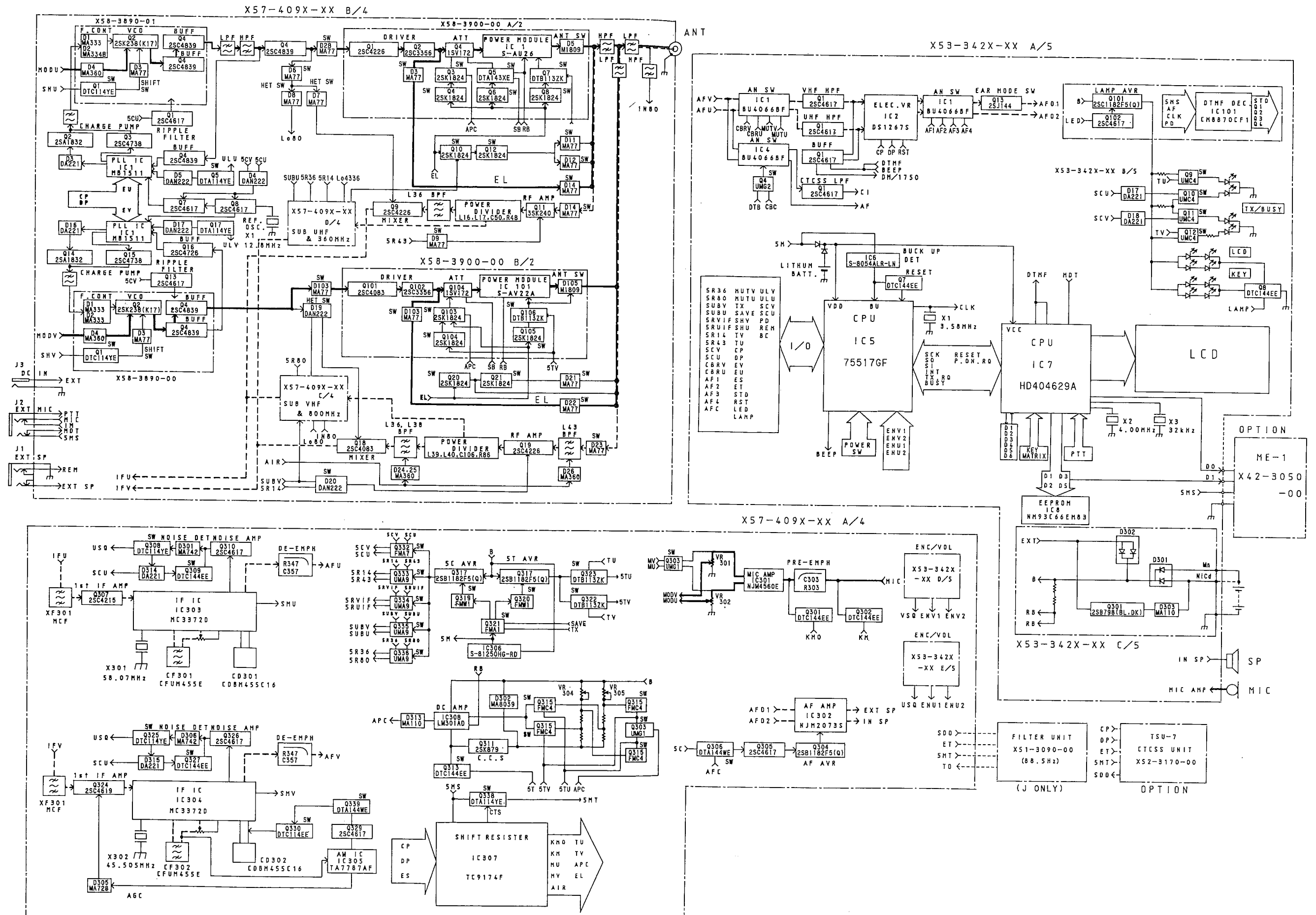


Parts with the exploded numbers larger than 700 are not supplied.

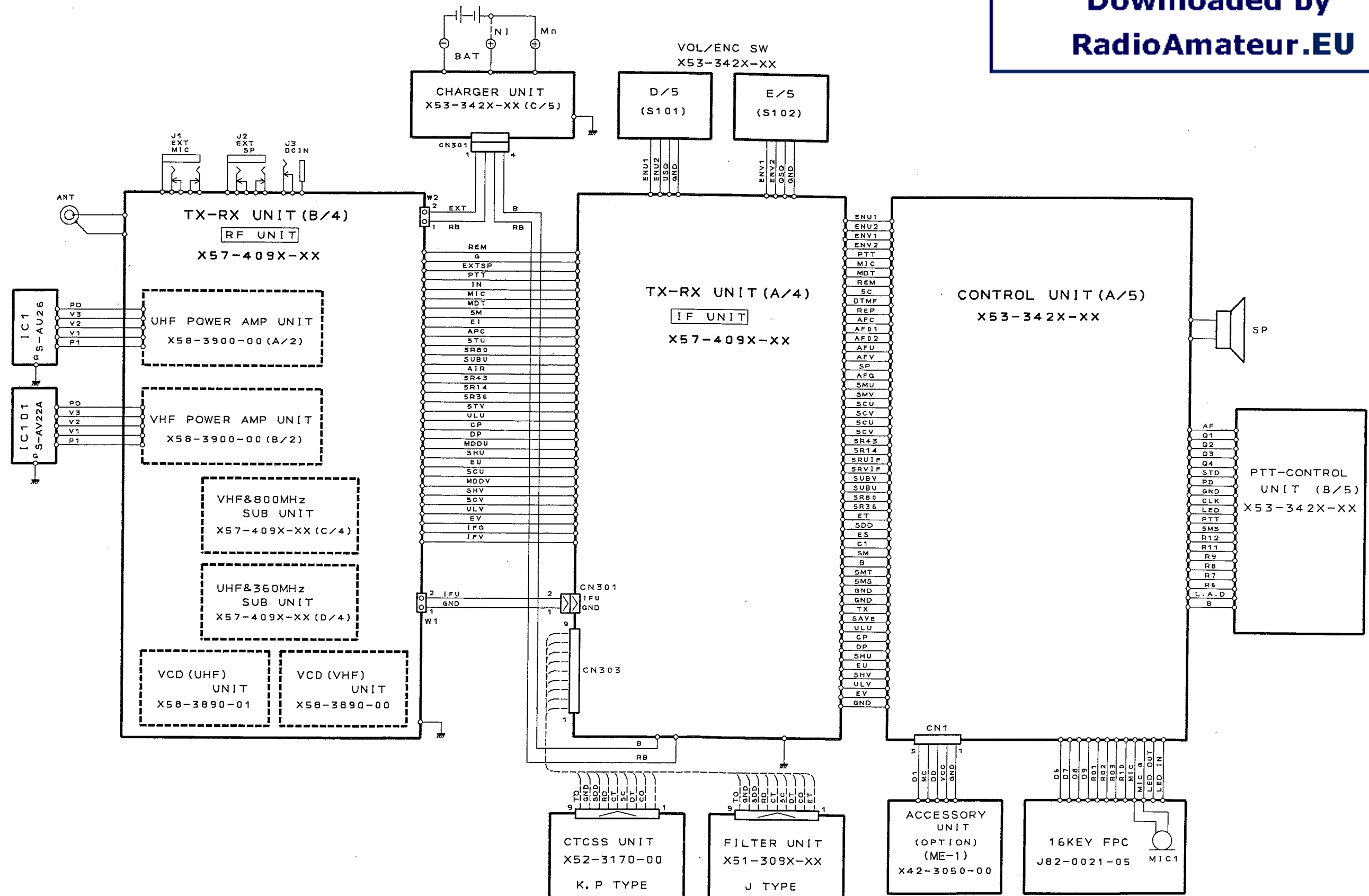
BLOCK DIAGRAM

TH-78A/E

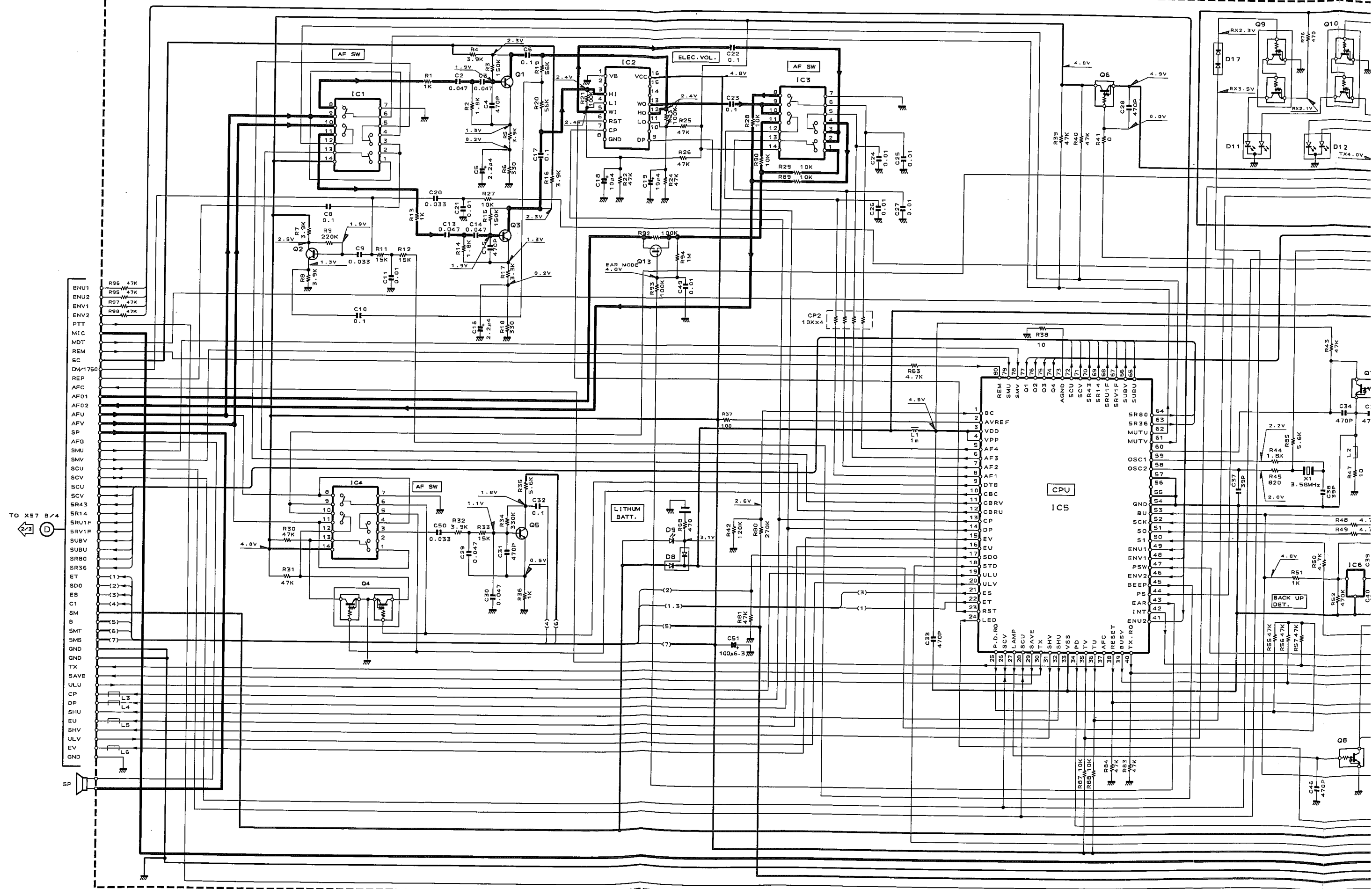
TH-78A/E

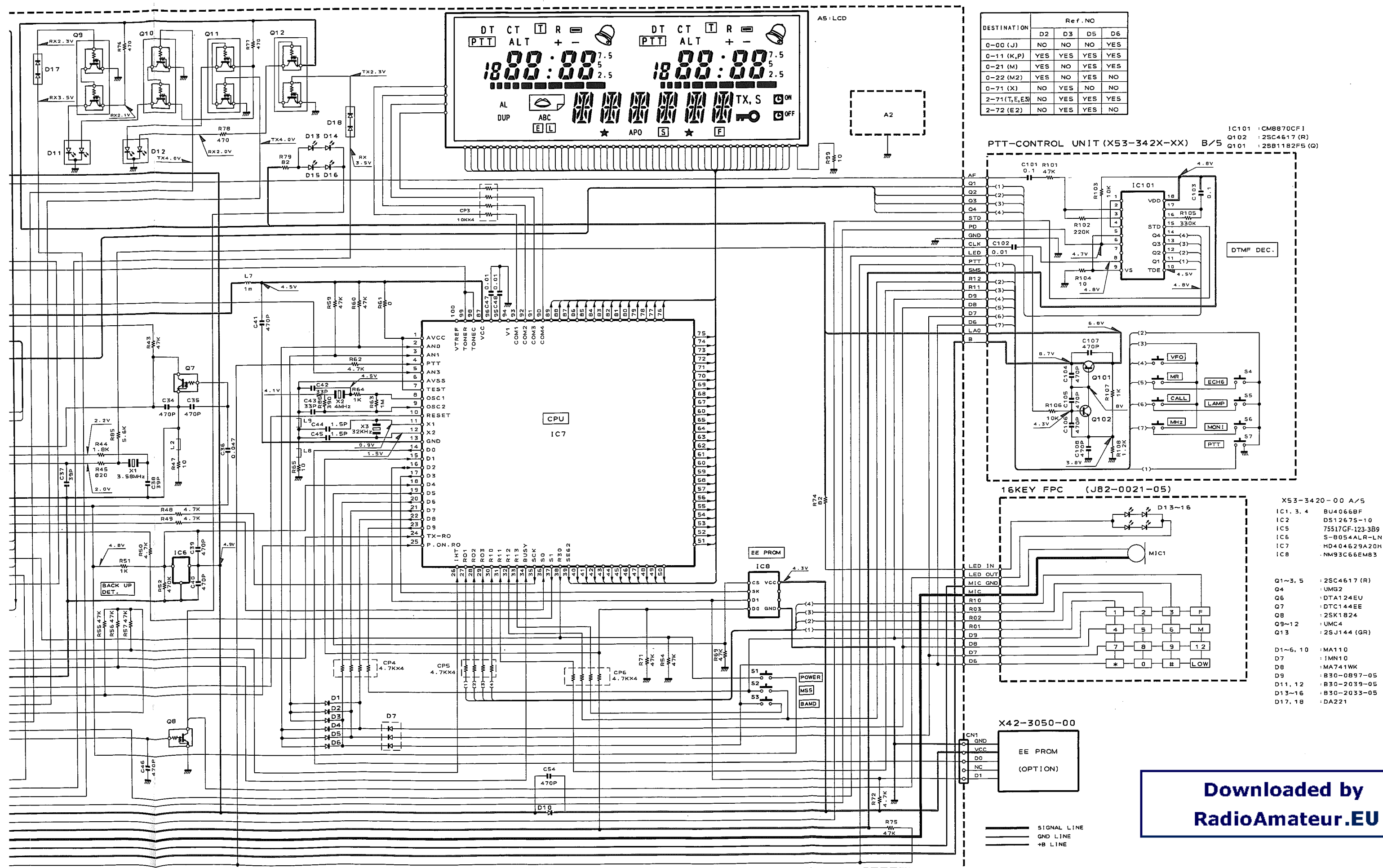


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CONTROL UNIT (X53-342X-XX) A/5 0-11: K, P 0-21: M 0-22: M2 0-71: X 2-71: T, E, E3 2-72: E2





CONTROL (CHARGER) UNIT (X53-342X-XX) (C/5)

Q301
: 2SB798 (DL, DK)
D301, 302
: DE5SC4M
D303
: MA110
D304
: 1SS302
D305
: RD22P

(X57-) (A/4)

(X57-) (A/4)

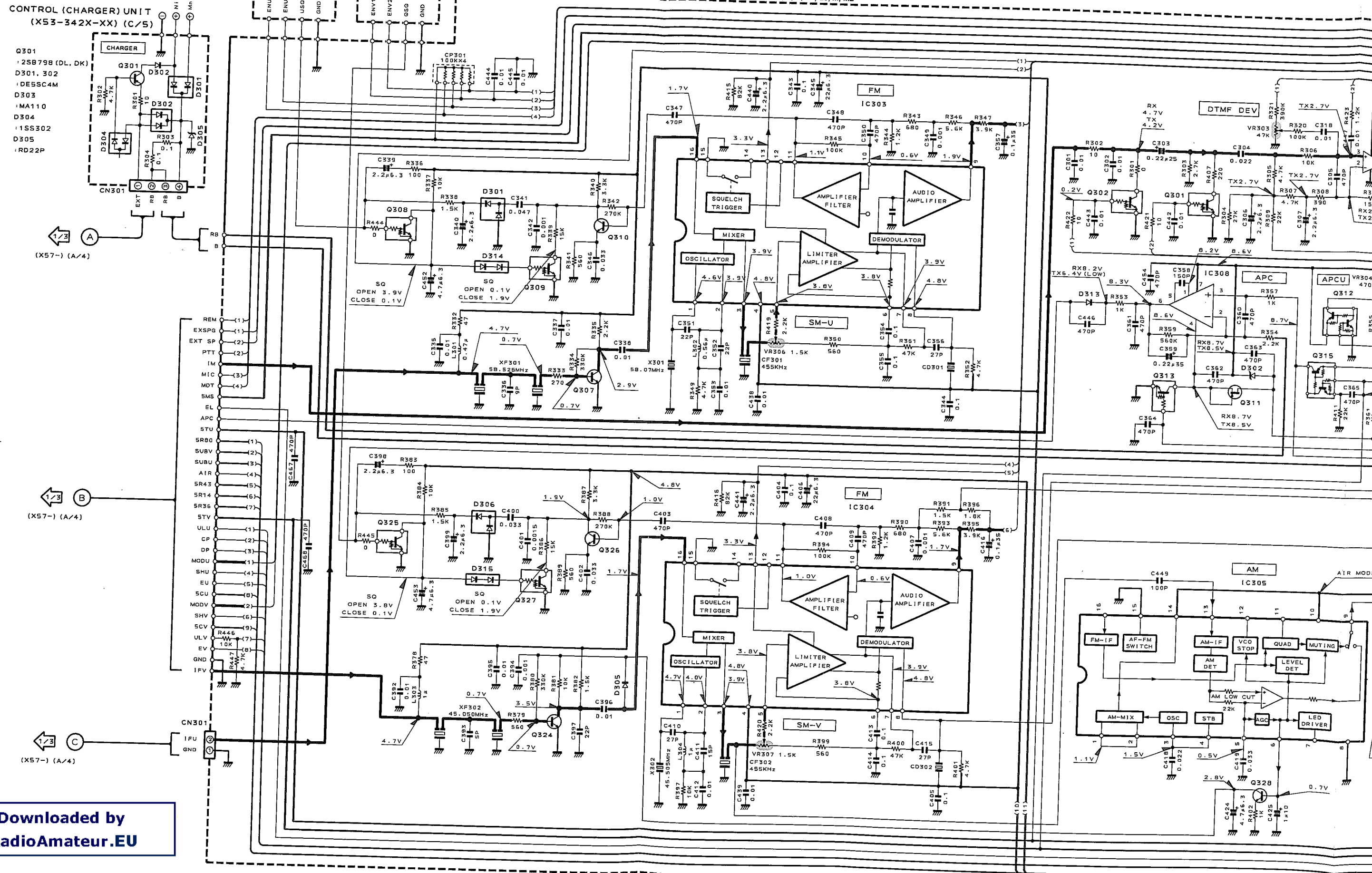
(X57-) (A/4)

BATT TERMINAL

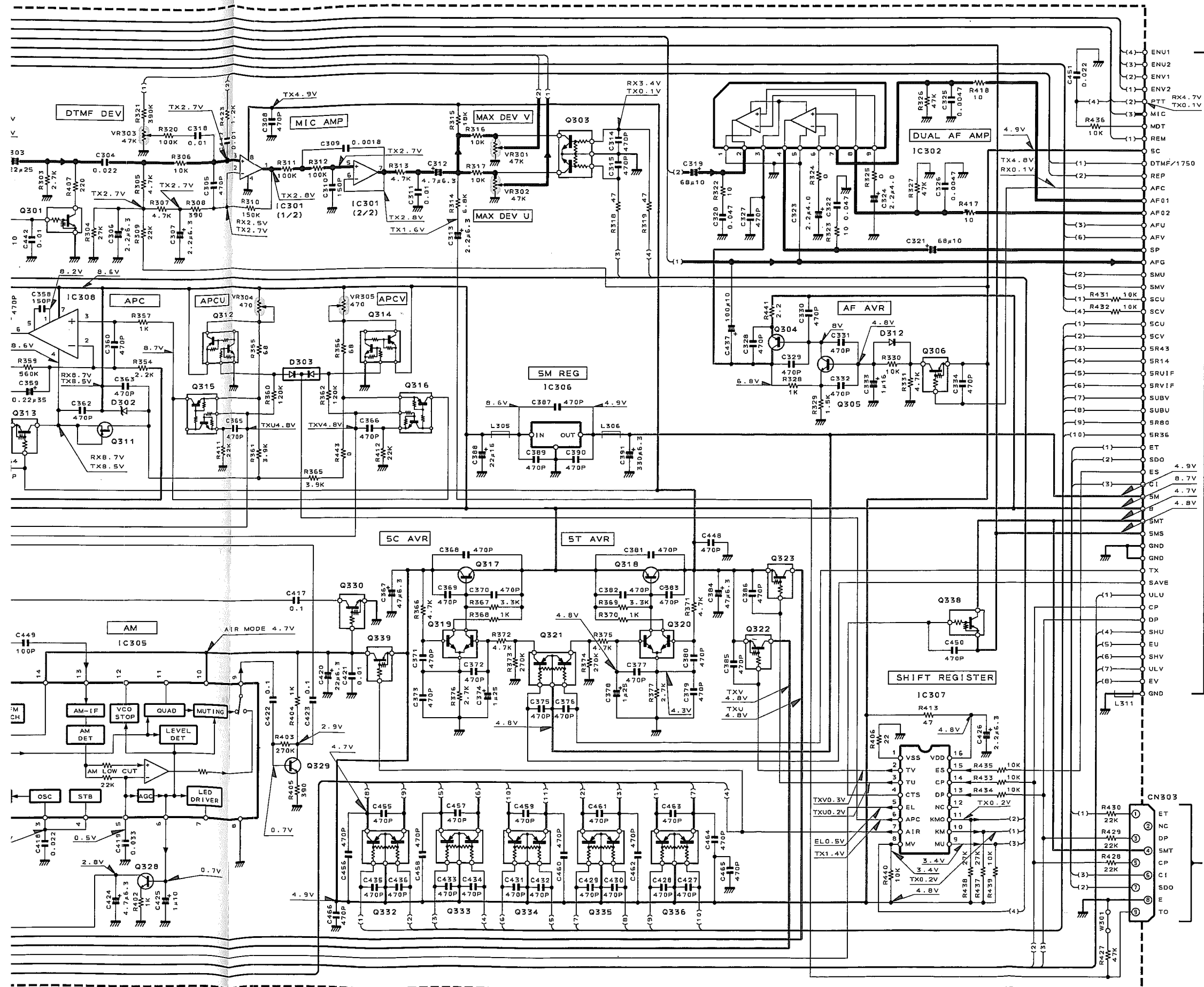
(X53-) (D/5)

(X53-) (E/5)

TR-RX UNIT (IF) (X57-409X-XX) (A/4) 0-11: K, P 2-71: T, X, E, E2, E3, M, M2



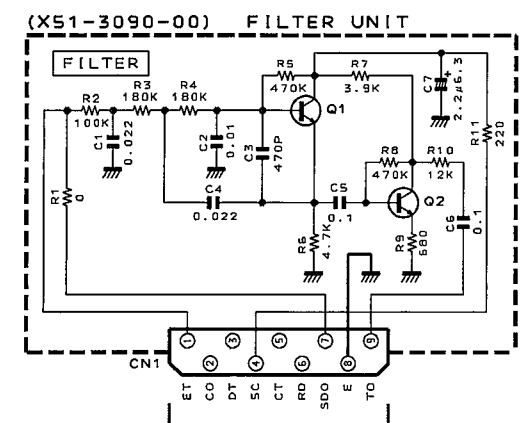
TX-RX UNIT (IF)



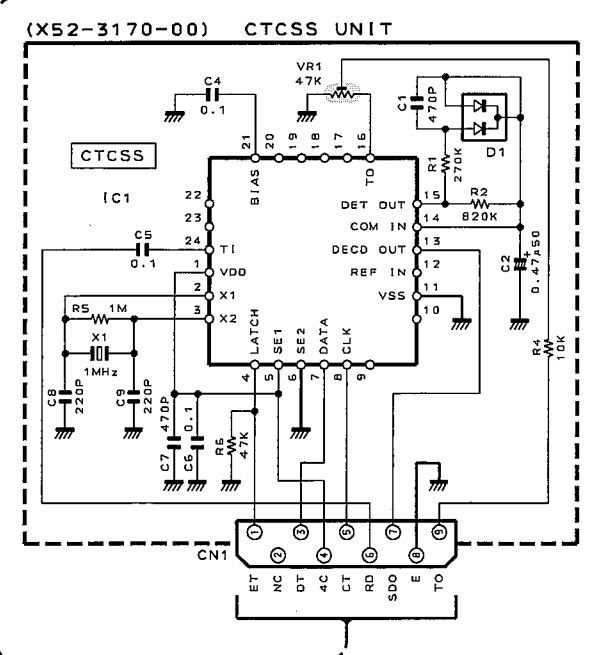
IC301	: NJM4560E	D301, 306	: MA742
IC302	: NJM2073S	D302	: MA8039
IC303, 304	: MC3372D	D303	: DAN222
IC305	: TA7787AF	D305	: MA728
IC306	: S-81250HQ-RD	D312, 313	: MA110
IC307	: TC9174F	D314, 315	: DA221
IC308	: LM301AD		

Q301, 302, 309,	
313, 327, 330	: DTC144EE
Q303	: UMG1
Q304, 317, 318	: 2SB1182F5 (Q)
Q305, 310, 326,	
328, 329	: 2SC4617 (R)
Q306, 339	: DTA144WE
Q307	: 2SC4215 (Y)
Q308, 325	: DTC114YE
Q311	: 2SK879 (Y)
Q312, 314	
315, 316	: FMC4
Q319, 320	: FMW1
Q321	: FMA1
Q322, 323	: DTB113ZK
Q324	: 2SC4619 (P, Q)
Q332	: FMA7
Q333~336	: UMA9
Q338	: DTA114YE

(X53-) (A/S)



Q1 : 2SC4116 (GR)
Q2 : 2SC4116 (Y)



IC1 : FX365LS
D1 : DAN202U

— SIGNAL LINE
— GND LINE
— +B LINE
- - -B LINE

(X57-409X-XX) (A/4)
IC1, IC2 :MB1511PFV-G-BND

Q1, Q13 :2SC4617 (S)
Q2, Q14 :2SA1832 (GR)
Q3, Q15 :2SC4738 (GR)
Q4, Q6 :2SC4839*J
Q5, Q17 :DTA114YE
Q7, Q8 :2SC4617 (R)
Q9, Q19 :2SC4226 (R24)
Q10, Q12,
20, 21 :2SK1824
Q11 :3SK240
Q16 :2SC4726 (P, Q)
Q18 :2SC4083 (N, P)

D2, 9, 15 :MA110
D3, 16 :DA221
D4, 5, 17 :DAN222
D6~8, 11~14,
18, 21~23,
27, 28, 29 :MA77
D10 :MA742
D24~26 :MA360

TX-RX UNIT (RF) (X57-409X-XX) (B/4) 0-11: K, P 2-71: T, X, E, E2, E3, M, M2

UHF POWER MODULE

IC1 SUB UNIT (UHF POWER AMP UNIT)
(X58-3900-00) (A/2)

EL: RX0.1V, TX (EL) 0.4V, TX (LOW) 3.5V
EL OUT: RX0.1V, TX (EL) 2.7V
SB: RX0.0V, TX (LOW) 8.3V
APC: TX (LOW) 7.0V
STU: RX0.0V, TX4.8V

SUB UHF/360 (X57-4090-00) (D/4)

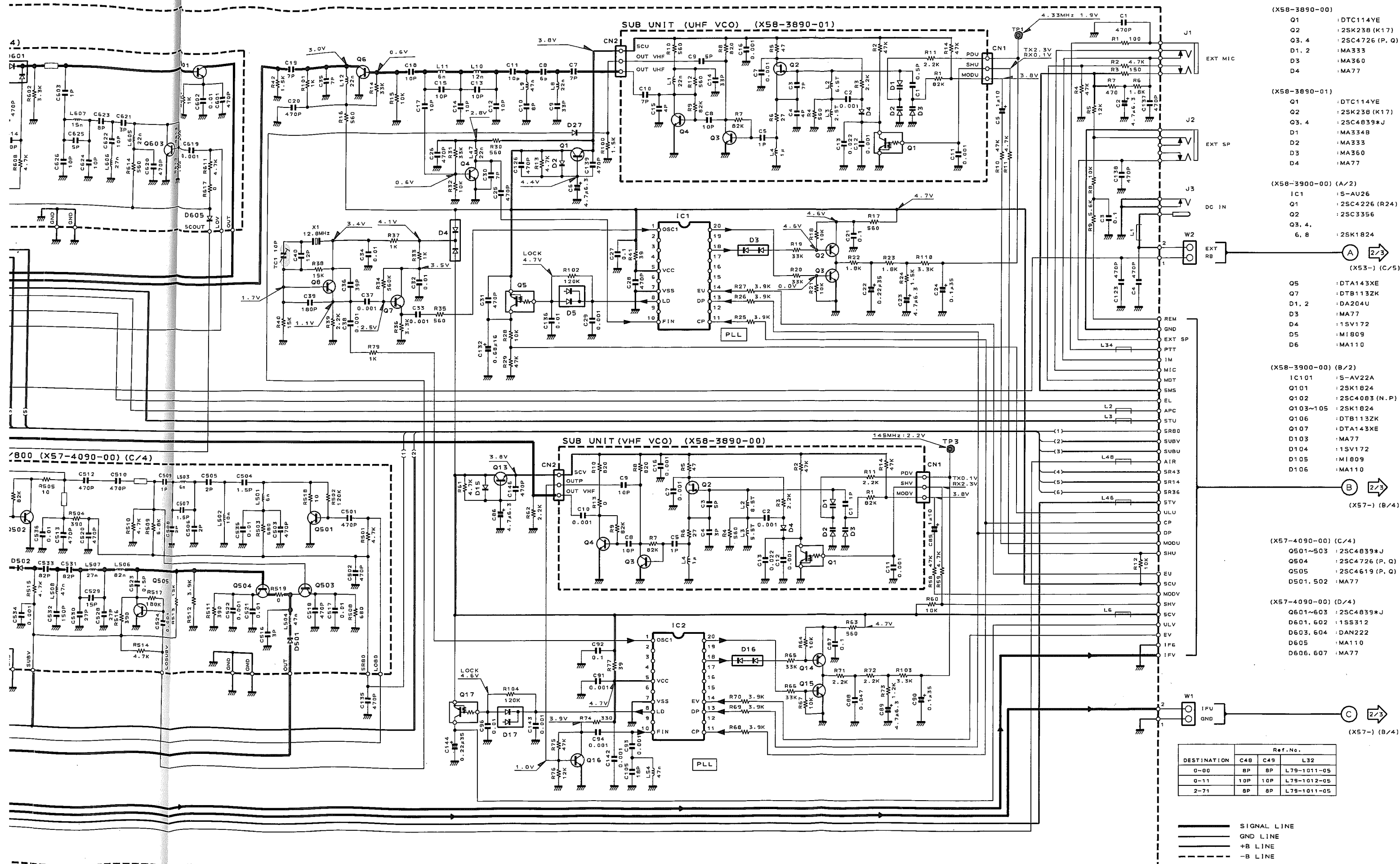
VHF POWER MODULE

IC101 SUB UNIT (VHF POWER AMP UNIT)
(X58-3900-00) (B/2)

EL: RX 0.0V, TX (EL) 0.4V, TX (LOW) 3.5V
SB: RX0.0V, TX (LOW) 8.3V
APC: TX (LOW) 7.0V
EL OUT: RX0.0V, TX (EL) 2.7V
STV: RX0.0V, TX4.8V
IN: RX0.0V, TX2.2V

SUB VHF/800 (X57-4090-00) (C/4)

TX-RX UNIT (RF)



- (X58-3890-00)
- Q1 :DTC114YE
 - Q2 :2SK238 (K17)
 - Q3, 4 :2SC4726 (P, Q)
 - D1, 2 :MA333
 - D3 :MA360
 - D4 :MA77

- (X58-3890-01)
- Q1 :DTC114YE
 - Q2 :2SK238 (K17)
 - Q3, 4 :2SC4839*J
 - D1 :MA334B
 - D2 :MA333
 - D3 :MA360
 - D4 :MA77

- (X58-3900-00) (A/2)
- IC1 :S-AU26
 - Q1 :2SC4226 (R24)
 - Q2 :2SC3356
 - Q3, 4, 6, 8 :2SK1824

- (X53-) (C/5)
- Q5 :DTA143XE
 - Q7 :DTB113ZK
 - D1, 2 :DA204U
 - D3 :MA77
 - D4 :1SV172
 - D5 :MI809
 - D6 :MA110

- (X58-3900-00) (B/2)
- IC101 :S-AV22A
 - Q101 :2SK1824
 - Q102 :2SC4083 (N, P)
 - Q103~105 :2SK1824
 - Q106 :DTB113ZK
 - Q107 :DTA143XE
 - D103 :MA77
 - D104 :1SV172
 - D105 :MI809
 - D106 :MA110

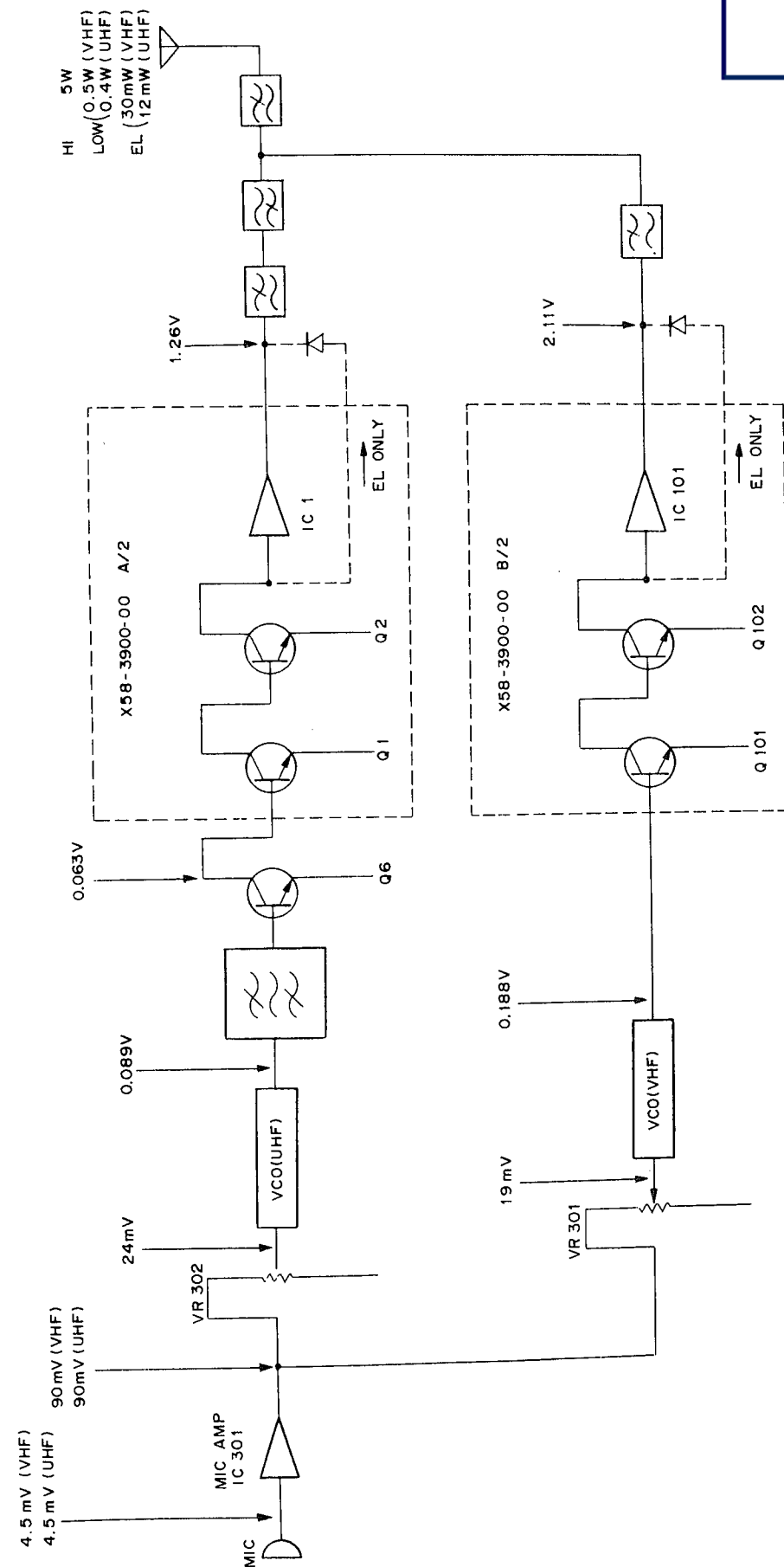
- (X57-4090-00) (C/4)
- Q501~503 :2SC4839*J
 - Q504 :2SC4726 (P, Q)
 - Q505 :2SC4619 (P, Q)
 - D501, 502 :MA77

- (X57-4090-00) (D/4)
- Q601~603 :2SC4839*J
 - D601, 602 :1SS312
 - D603, 604 :DAN222
 - D605 :MA110
 - D606, 607 :MA77

DESTINATION	Ref. No.		
	C48	C49	L32
0-00	8P	8P	L79-1011-05
0-11	10P	10P	L79-1012-05
2-71	8P	8P	L79-1011-05

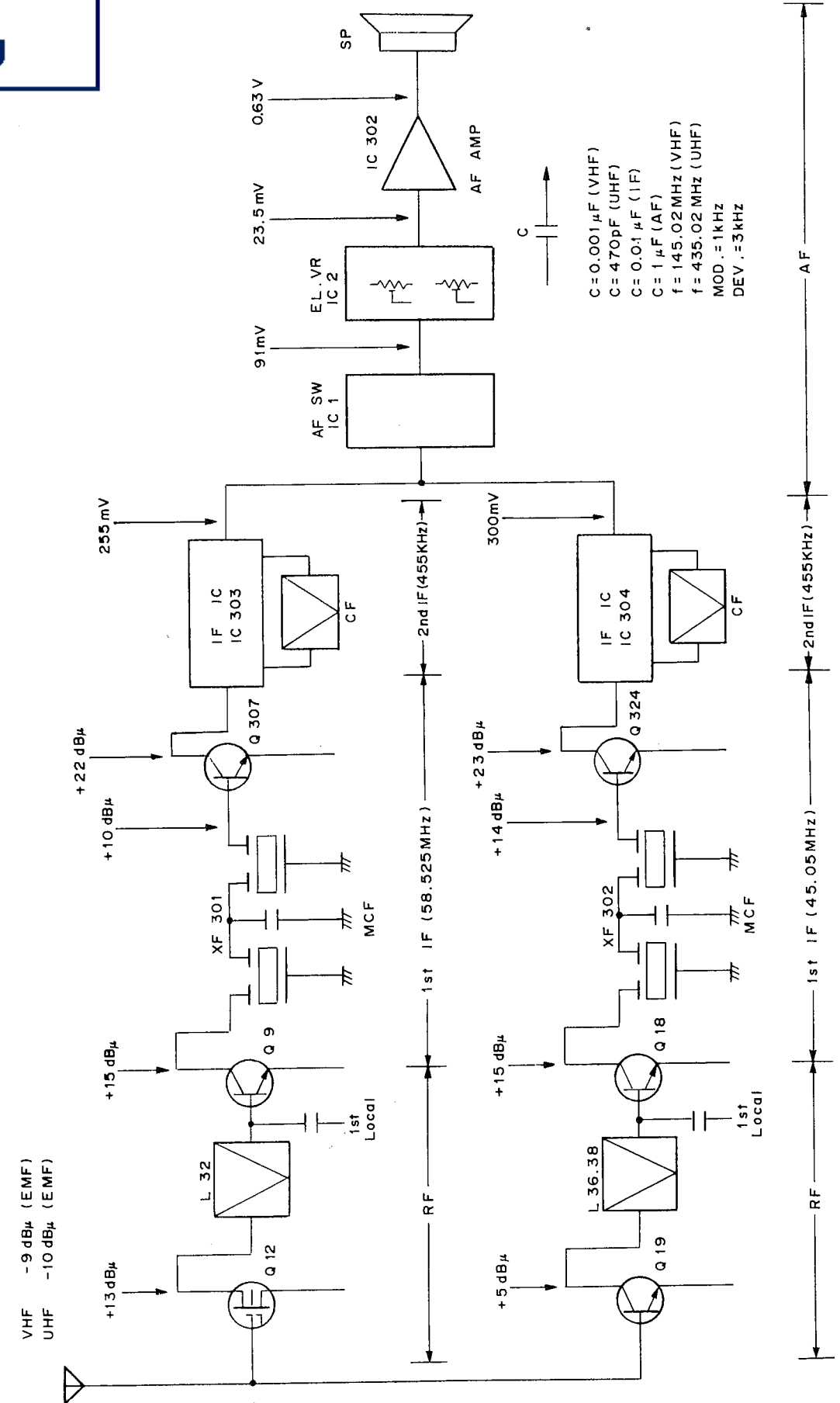
— SIGNAL LINE
--- GND LINE
... +B LINE
-.- -B LINE

LEVEL DIAGRAM



* All sent in an EL level.

LEVEL DIAGRAM



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