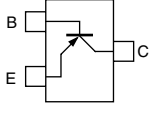
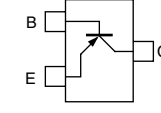
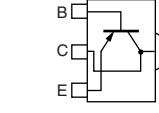
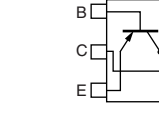
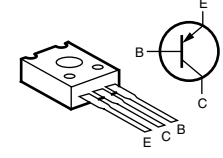
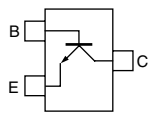
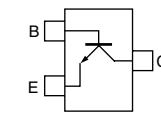
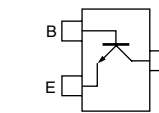
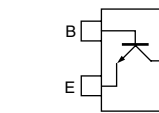
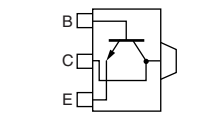
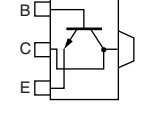
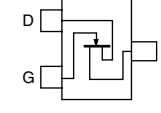
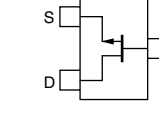
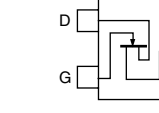
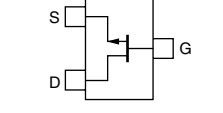
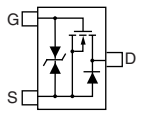
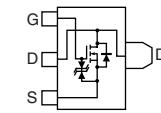
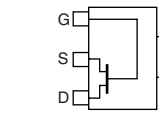
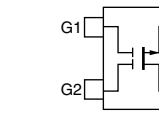
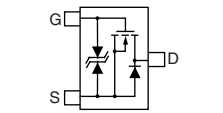
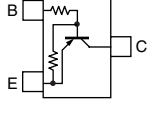
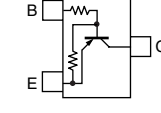
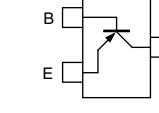
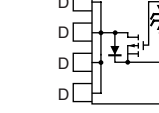
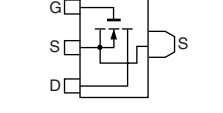
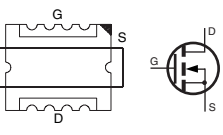
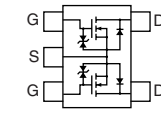
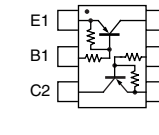
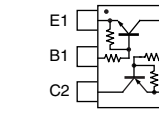

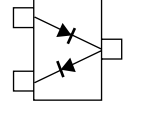
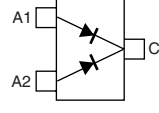

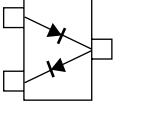
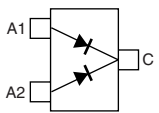
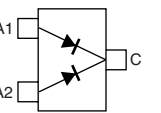
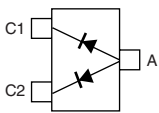
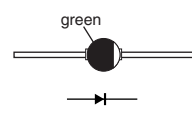
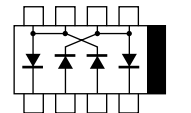
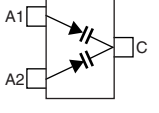
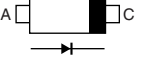


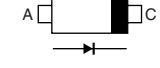


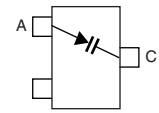
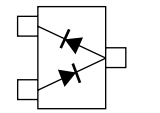


SECTION 7 SEMI-CONDUCTOR INFORMATION

• TRANSISTORS AND FET'S

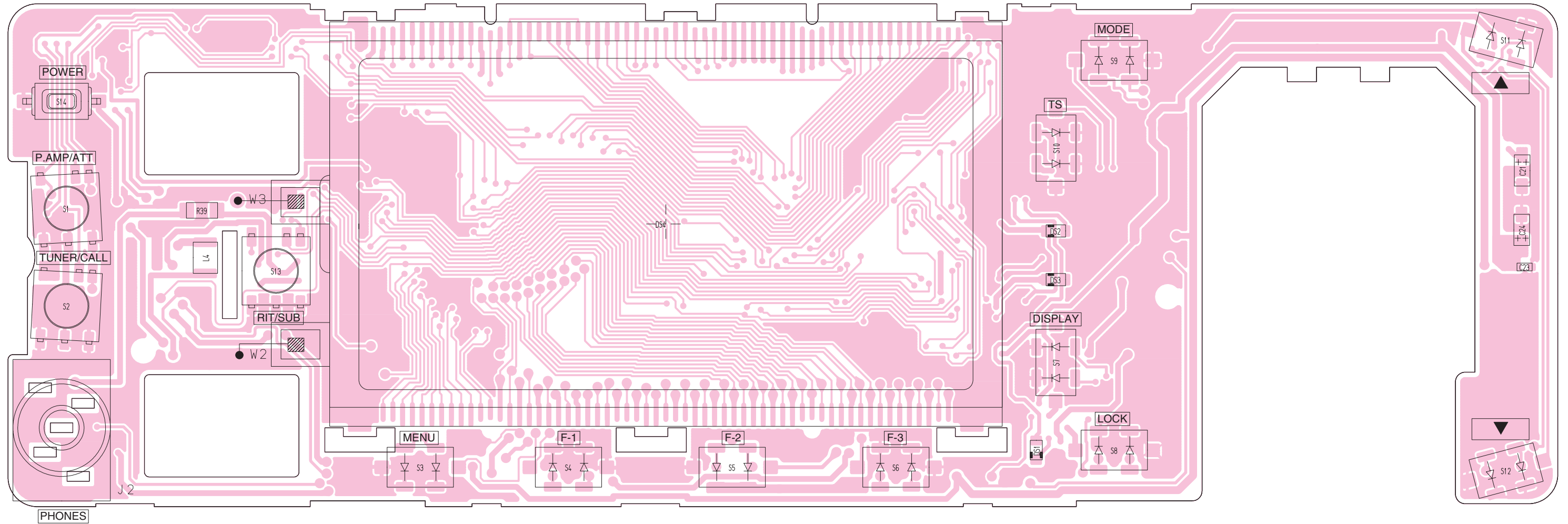
2SA1162 GR (Symbol: SG) 	2SA1576A T106 R (Symbol: FR) 	2SB1132 T100 Q (Symbol: BAQ) 	2SB1132 T100 R (Symbol: BAR) 	2SB1143 S (Symbol: B1143) 
2SC4081 T106 R (Symbol: BR) 	2SC4213 B (Symbol: AB) 	2SC4405 3 TL (Symbol: OY3) 	2SC4406 (Symbol: JT) 	2SC4536 (Symbol: QR) 
2SC4673 D TD (Symbol: CO) 	2SK210 GR (Symbol: YG) 	2SK508 K52 T2B (Symbol: K52) 	2SK882 GR (Symbol: TGR) 	2SK1740 (Symbol: IJ) 
2SK3018 T106 (Symbol: KN) 	2SK3065 (Symbol: KE) 	2SK3074 (Symbol: UW) 	3SK294 (Symbol: UV) 	CPH3404-TL (Symbol: KD) 
DTA114 EE TL (Symbol: 14) 	DTA114EUA T106 (Symbol: 14) 	DTC114 EE TL (Symbol: 24) 	ECH8301-TL (Symbol: JA) 	RD01MUS1 (Symbol: K2) 
RD07MVS1 (Symbol: RD07MVS1) 	UM5K1N (Symbol: K1) 	XP4111 (Symbol: 9U) 	XP4311 (Symbol: 3X) 	

• DIODES

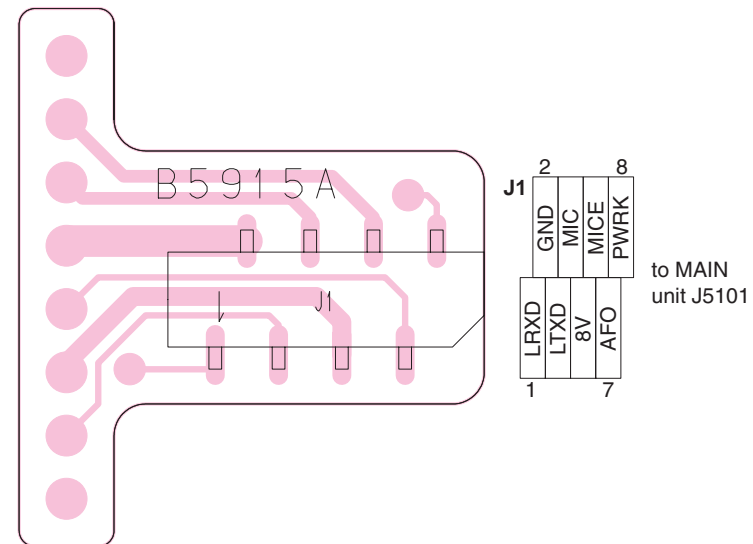
1SS355 (Symbol: A) 	1SS372 (Symbol: N9) 	1SS385 (Symbol: 09) 	1SV271 (Symbol: TG) 	DA221 TL (Symbol: K) 
DAN202 K T146 (Symbol: N) 	DAN222TL (Symbol: N) 	DAP222 TL (Symbol: P) 	DSA3A1 (Color: Green) 	HSB88WSTR (Symbol: Silver line) 
KV1770S (Symbol: C7) 	MA2S111 (Symbol: A) 	MA77 (Symbol: 4B) 	MA357 (Symbol: 7K) 	MA732 (Symbol: 2C) 
MA8036 L (Symbol: 3_6) 	MA8110 L (Symbol: 11_) 	MMBV3700LT1 (Symbol: 4R) 	RB876W TL (Symbol: 3X) 	

SECTION 8 BOARD LAYOUTS

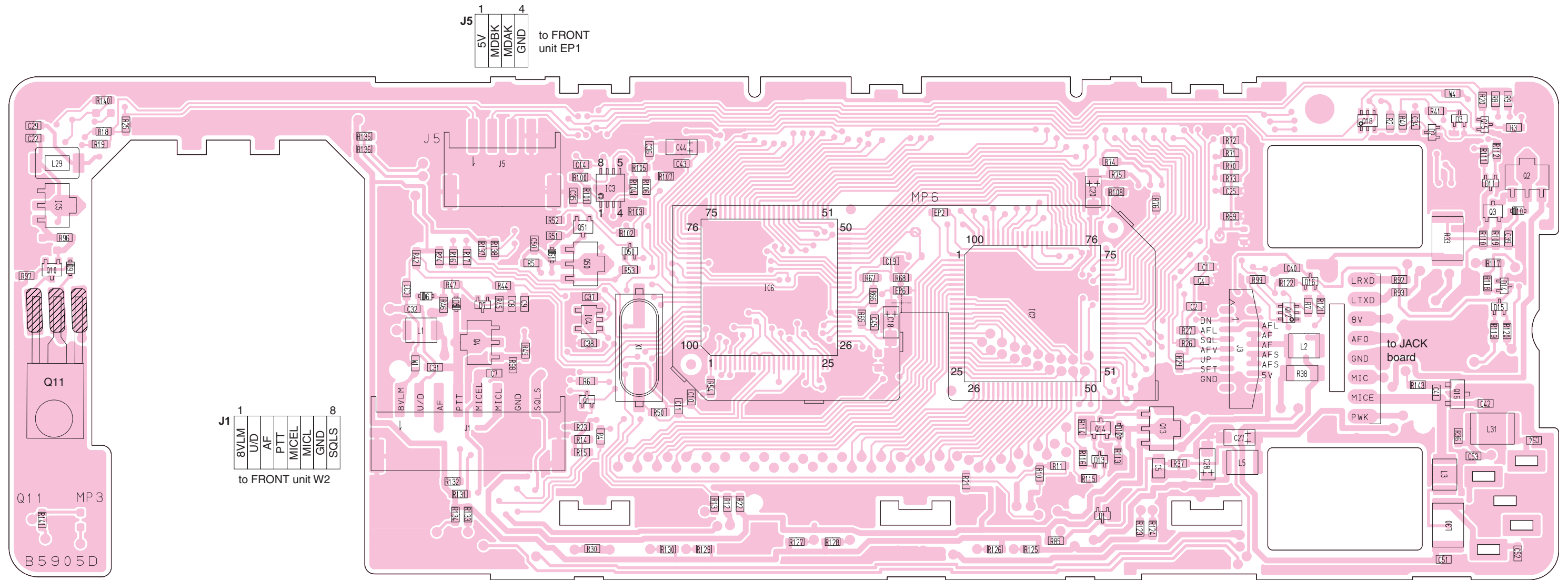
8-1 DISPLAY BOARD
• TOP VIEW



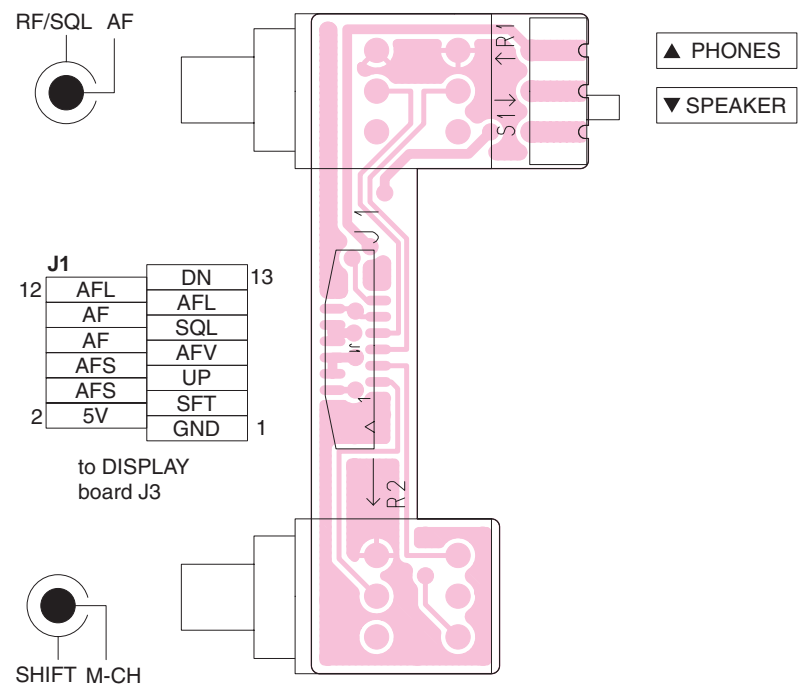
8-2 JACK BOARD
• TOP VIEW



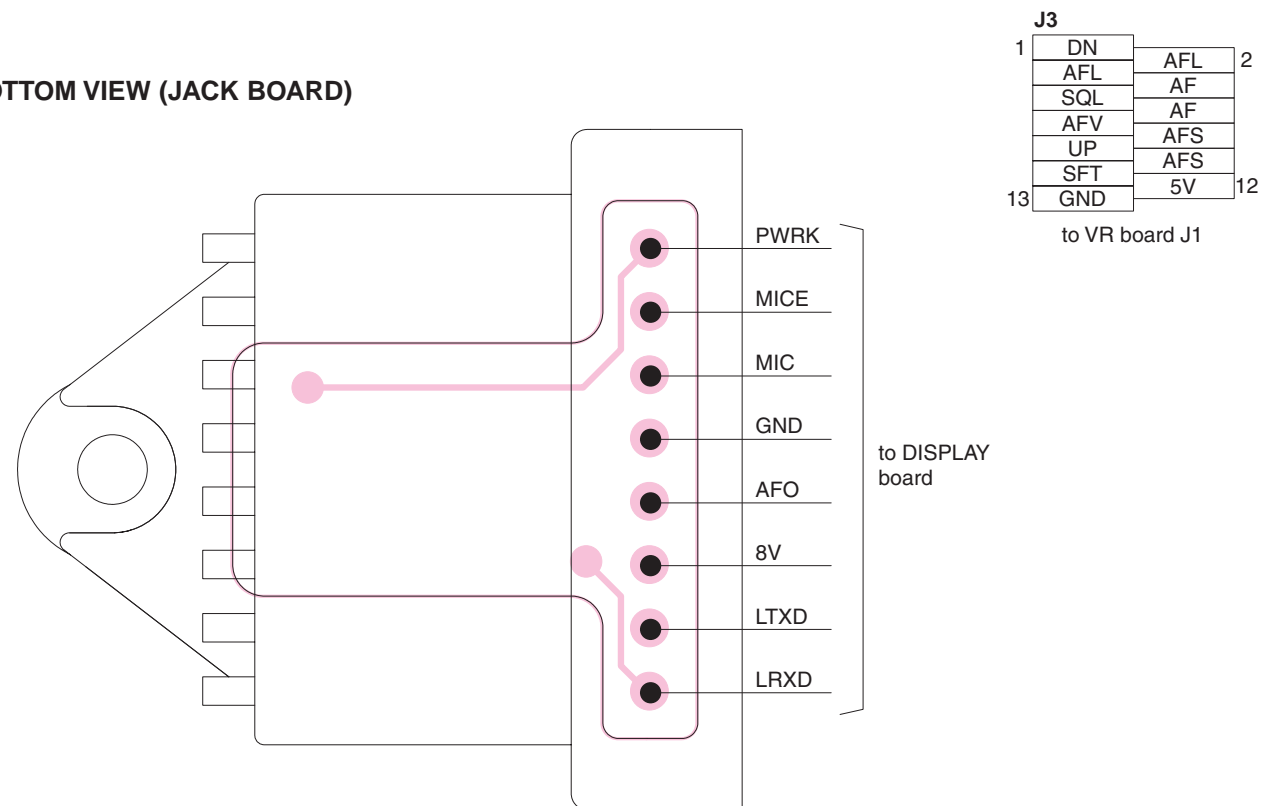
• BOTTOM VIEW (DISPLAY BOARD)



8-3 VR BOARD



• BOTTOM VIEW (JACK BOARD)



8-4 MAIN UNIT

• TOP VIEW

J6751	
2	TGK
1	GND
17	IDL
18	GND
1	TSWL
2	TPZS
3	REFL
4	FORL
5	DRES
6	MCK3
7	PWRS
8	MDT3
9	TDT3
10	TOE
11	IDL
12	GND
13	14V
14	14V
15	14V
16	NC
17	NC
18	8V
19	HV

to PA unit J41

J6701	
2	KEY
1	START
17	NC
1	3V
2	GND
3	POWS
4	GND
5	14V
6	14V
7	14V
8	NC
9	NC
10	NC
11	8V
12	HV

to PA unit J1

J5101	
7	GND
1	MIC
2	MICE
3	PWRK
4	AFO
5	8V
6	LTXD
7	LRXD

to JACK board J1

J2453	
10	DRES
11	DSTB
12	MCK
13	DSPS
14	GND
15	GND
16	GND
17	DINT
18	MDT
19	5V
20	GND
21	GND

to UT-106

J7121	
1	MDT
2	SPBK
3	5V
4	GND
5	SPCH
6	GND
7	GND
8	MSST
9	MCK
10	GND

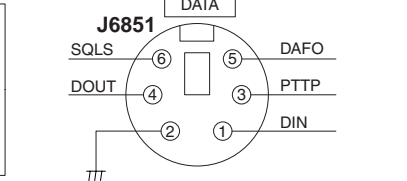
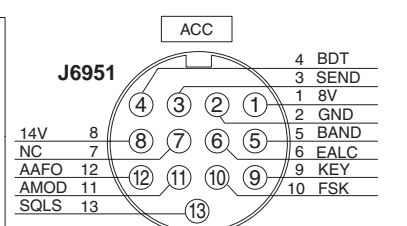
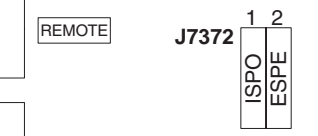
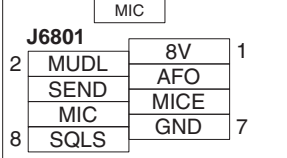
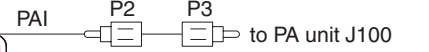
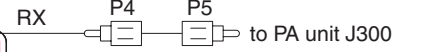
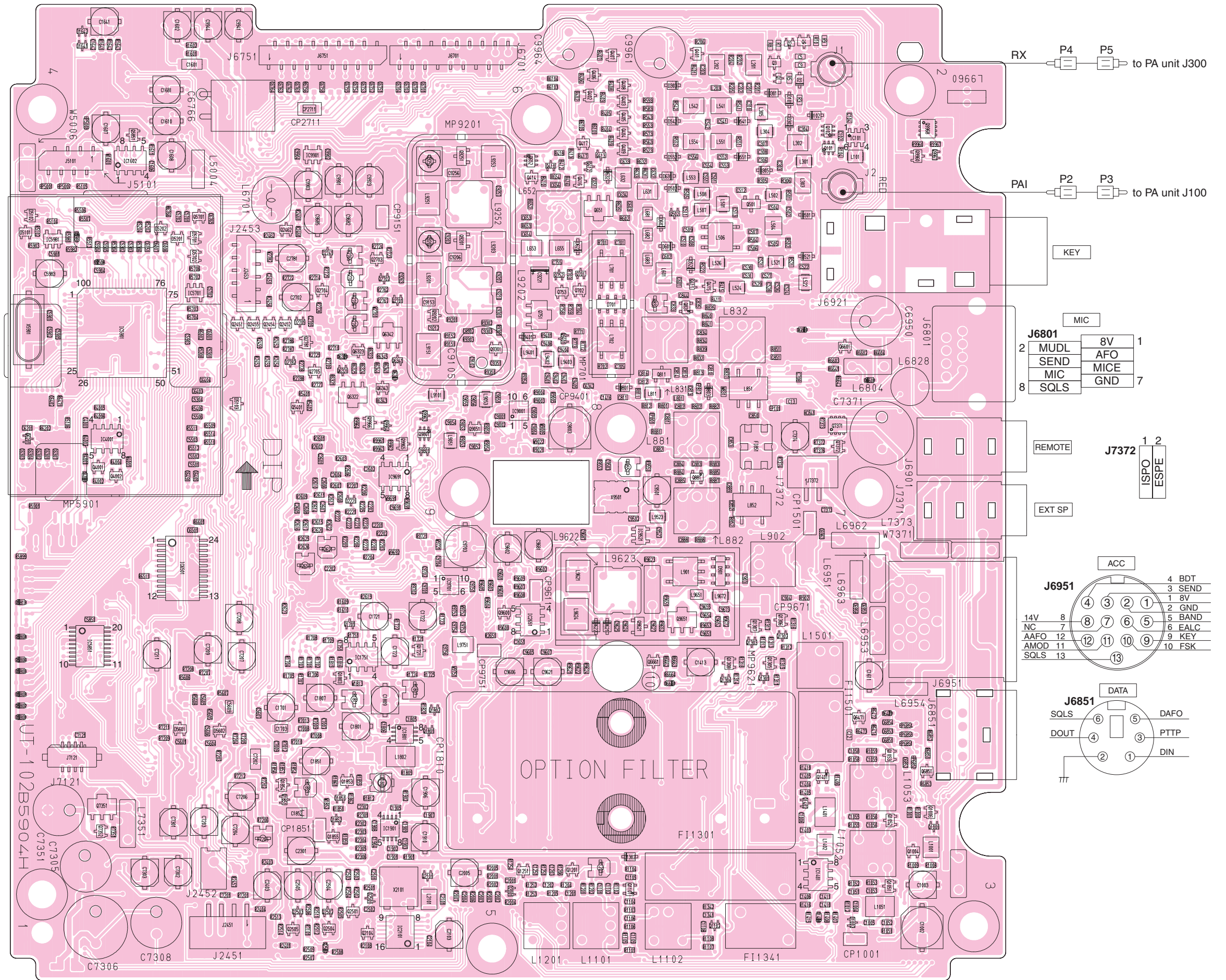
to Optional unit UT-102

J2452	
1	AFI
2	AFIE

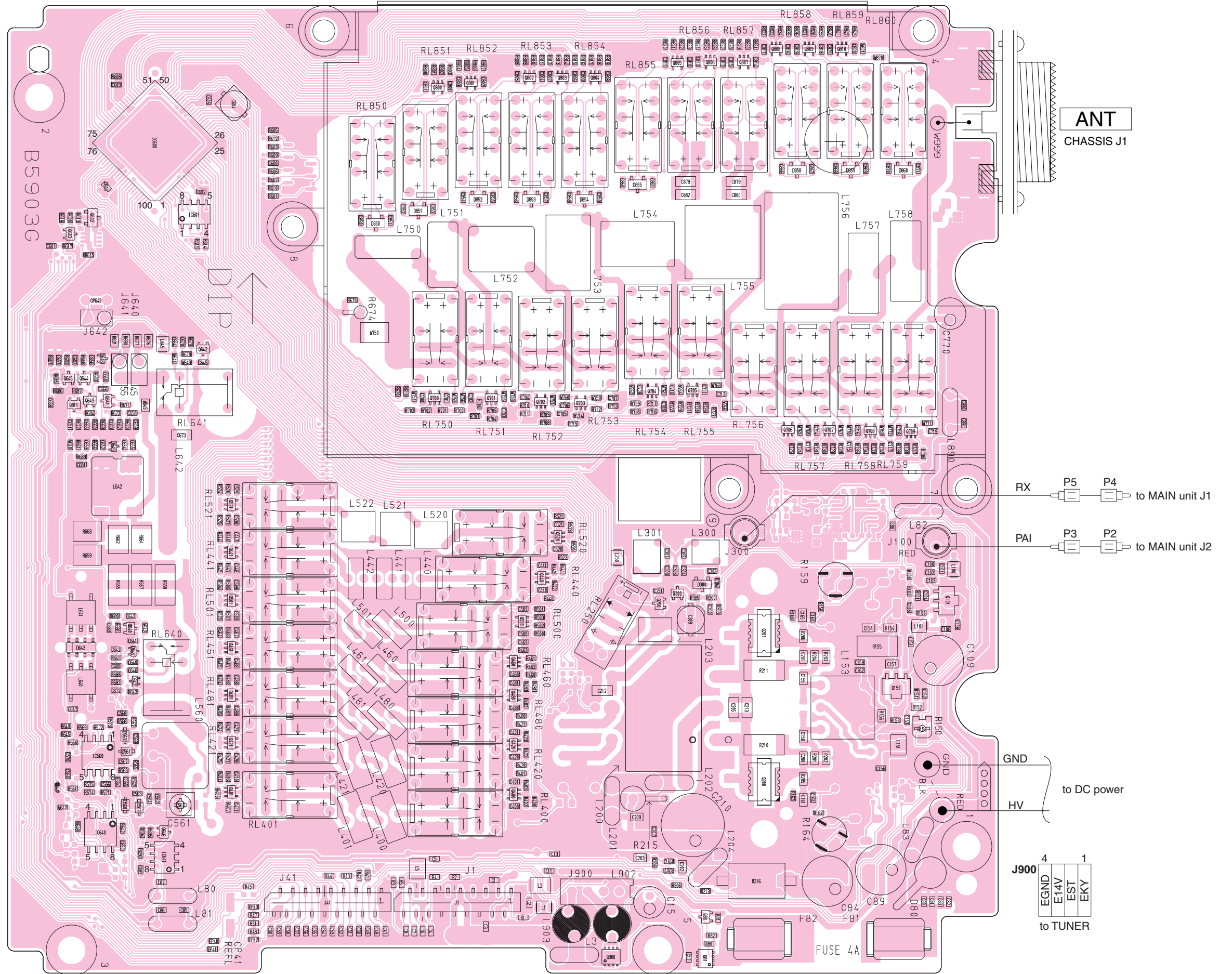
to UT-106

J2451	
4	NC
5	NC
6	AFIE
7	AFI

to UT-106



8-5 PA UNIT
• TOP VIEW



J41

17	TGK	1
	TPZS	
	TPZL	
	FORL	
	DRES	
	MCK3	
	PWRS	
	TOE	
	IDH	
18	GND	2

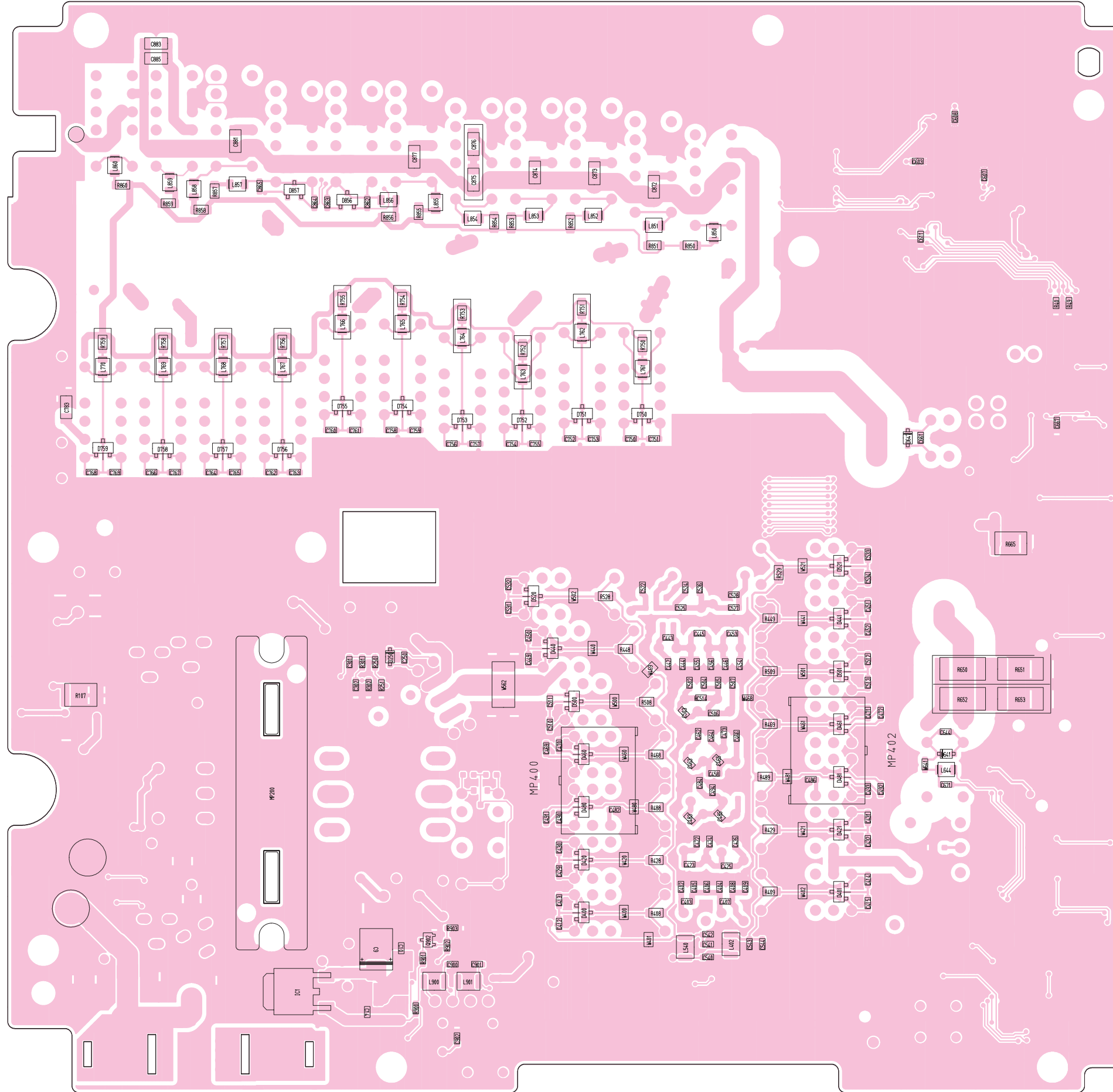
to MAIN unit J6751

J1

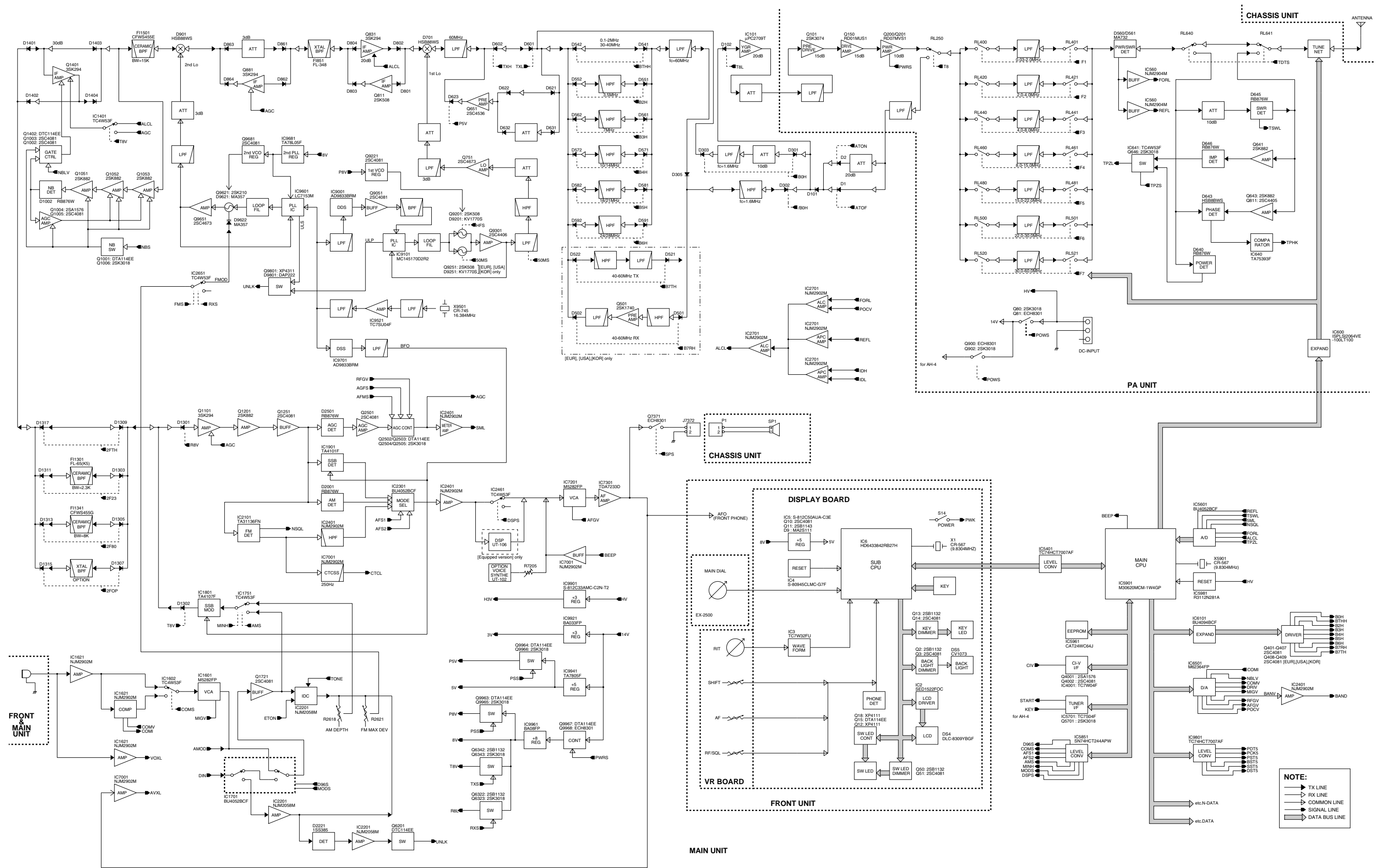
17	KEY	1
	3V	
	GND	
	NC	
	14V	
	14V	
	NC	
	NC	
	8V	
	HV	
18	START	2
	TPWR	
	POWS	
	GND	
	14V	
	14V	
	GND	
	T8V	
	NC	

to MAIN unit J6701

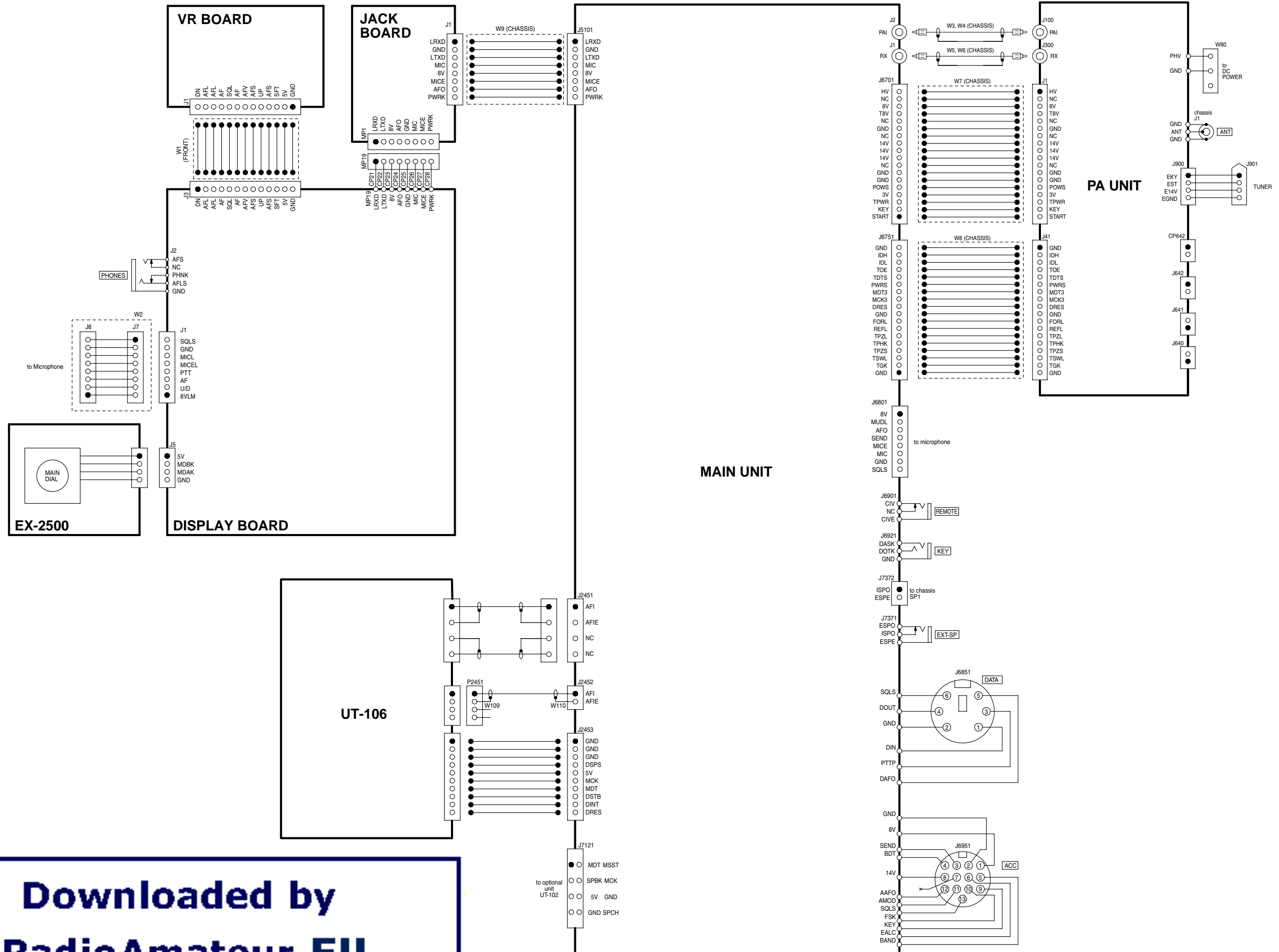
• BOTTOM VIEW (PA UNIT)



SECTION 9 BLOCK DIAGRAM



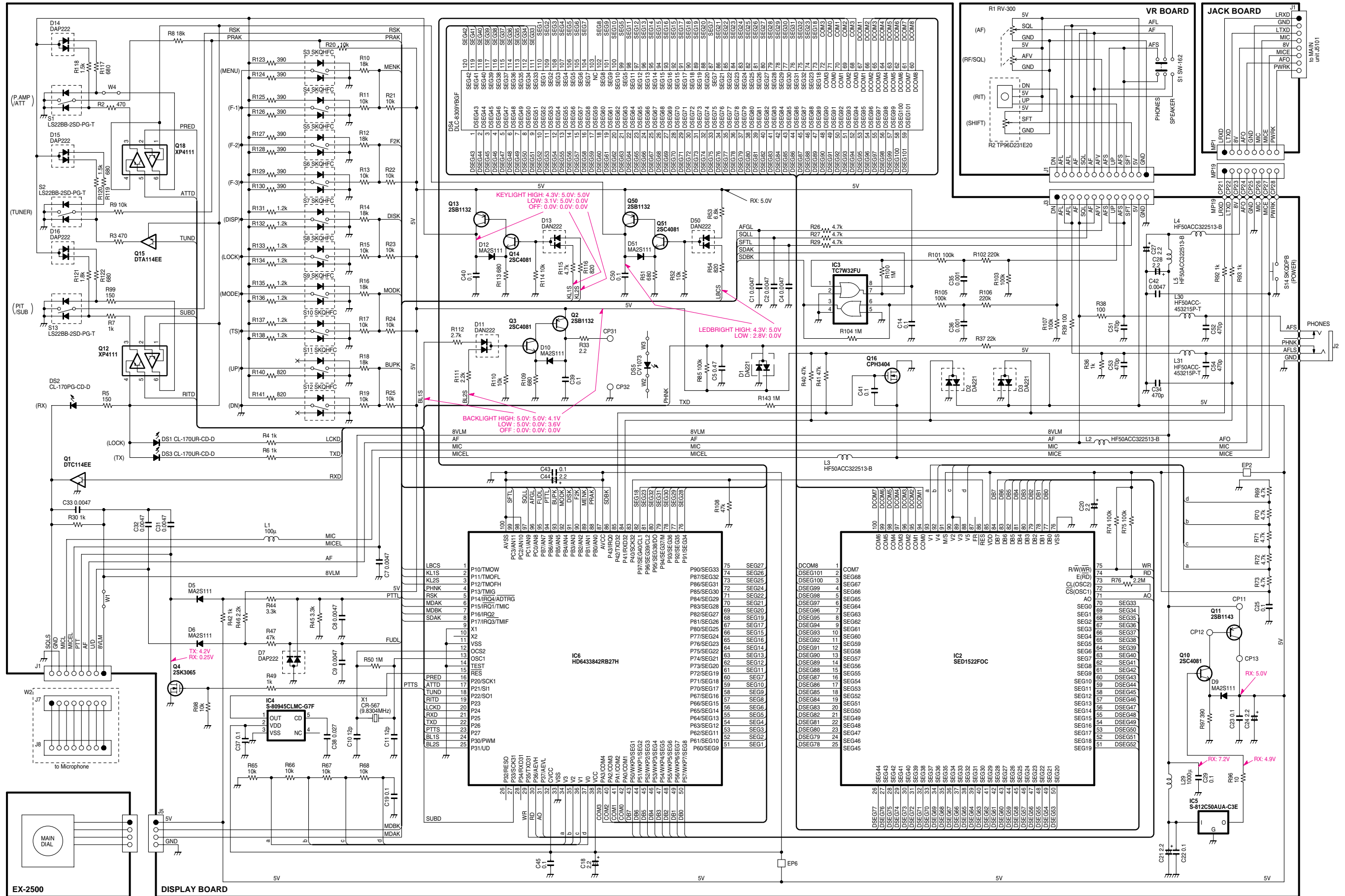
SECTION 10 WIRING DIAGRAMS



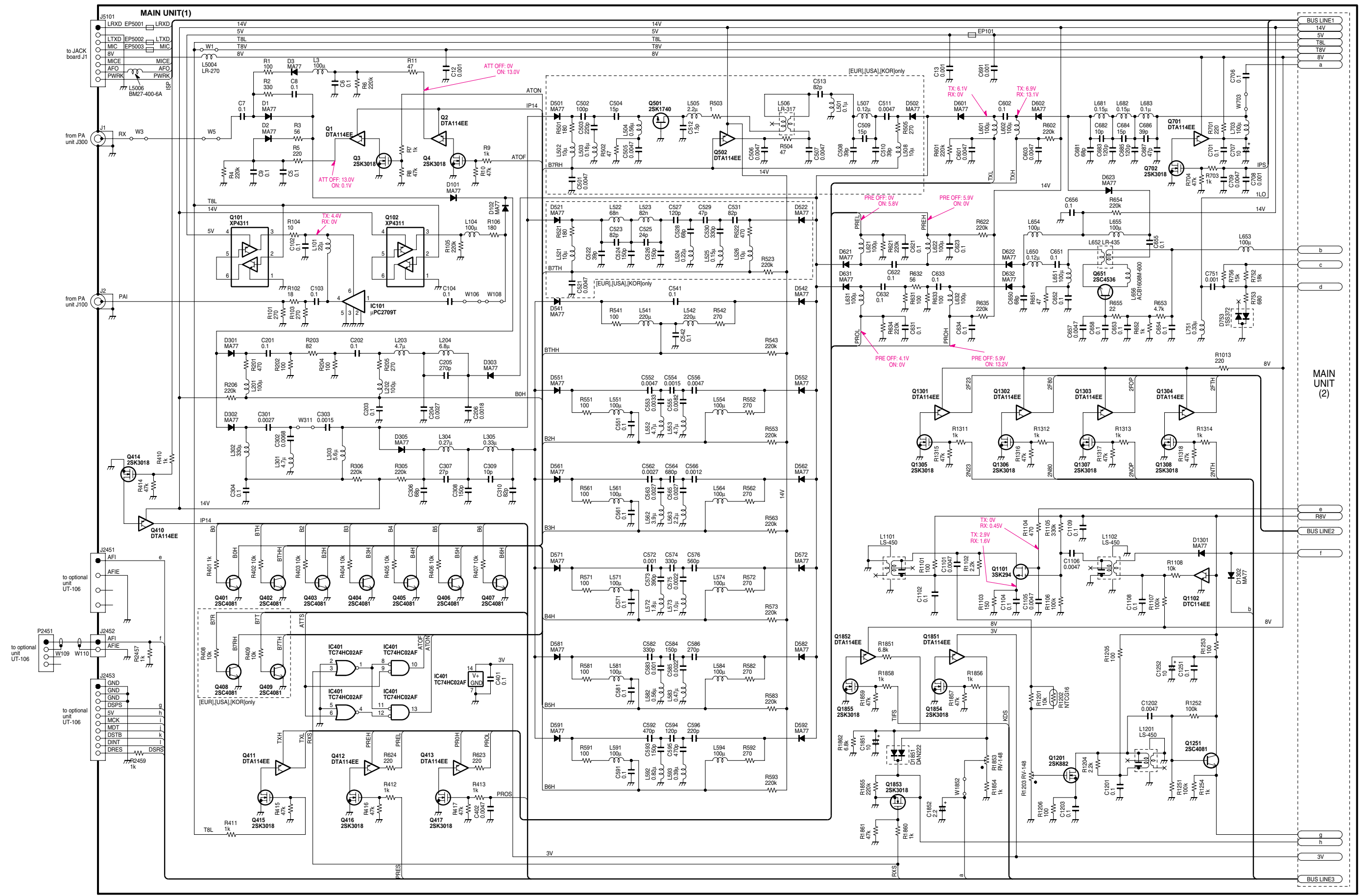
Downloaded by
RadioAmateur.EU

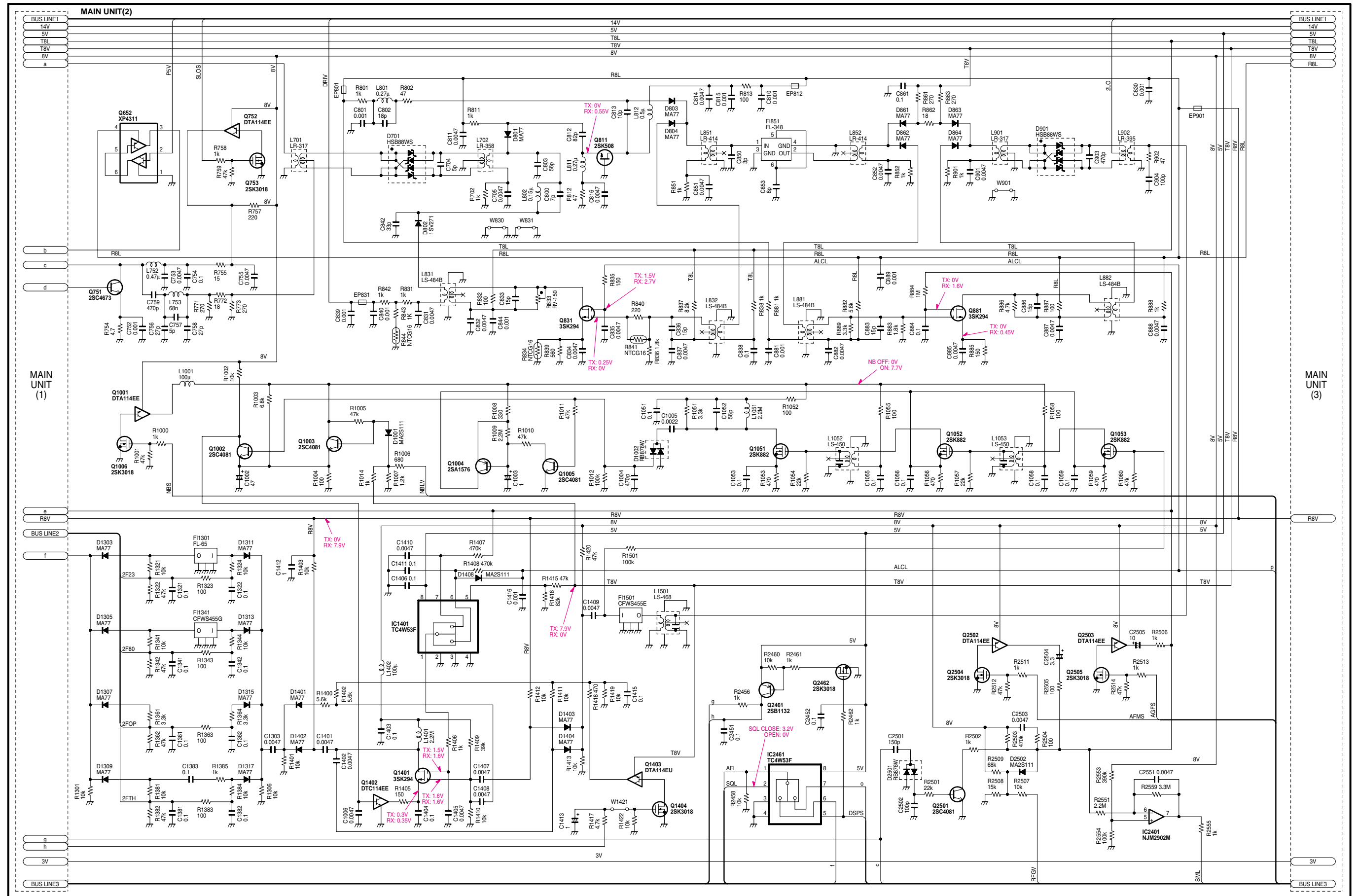
SECTION 11 VOLTAGE DIAGRAMS

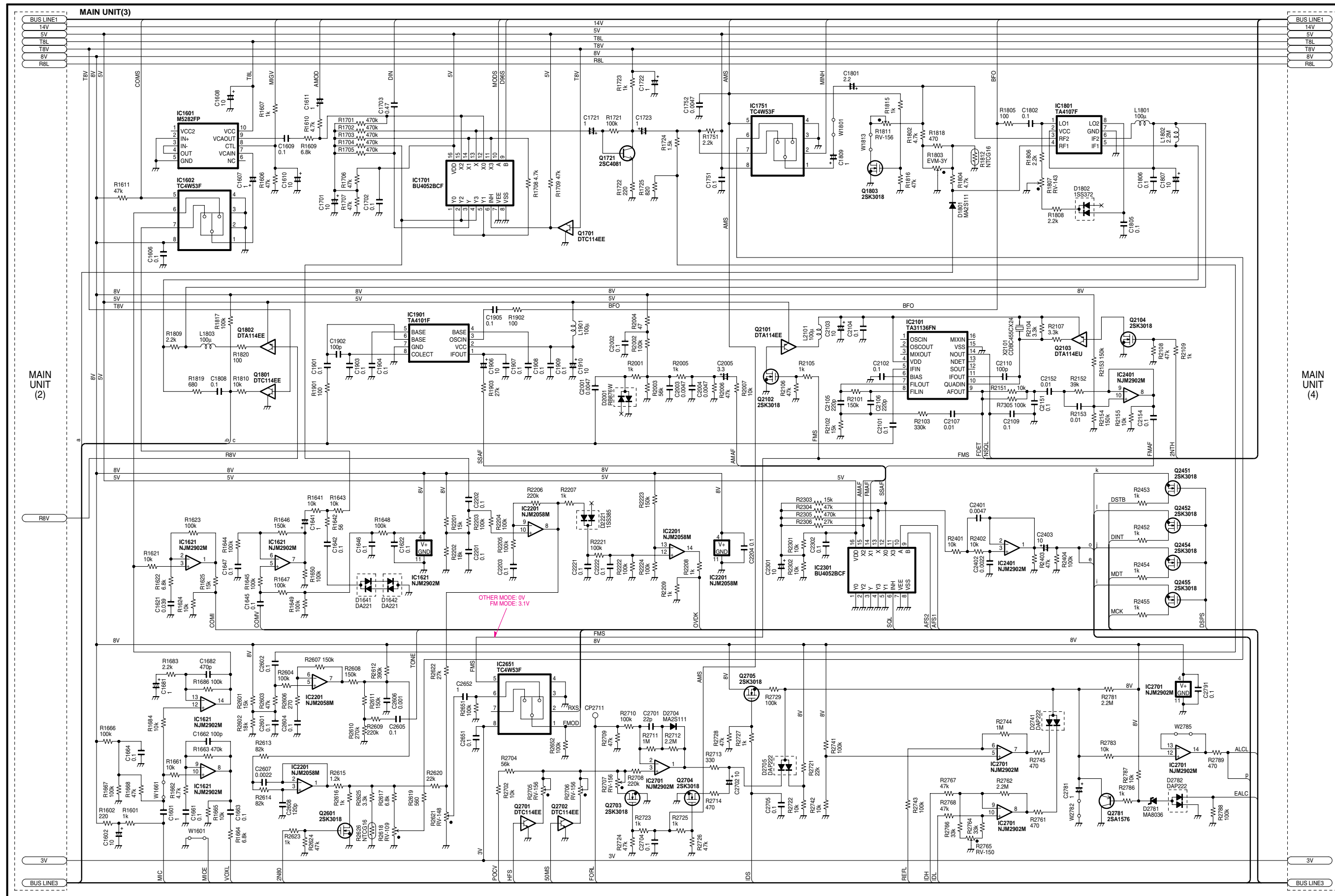
11-1 FRONT UNIT

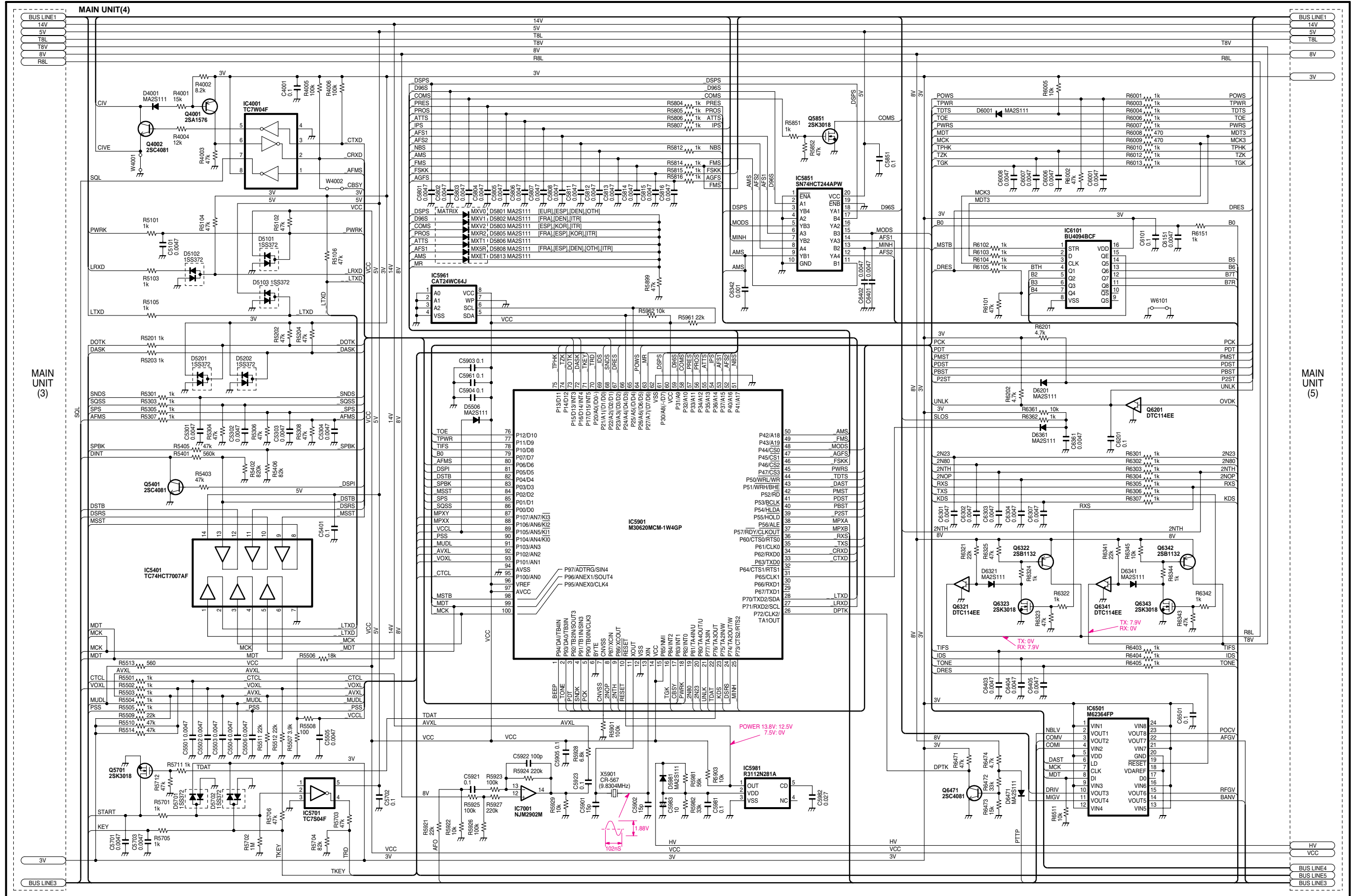


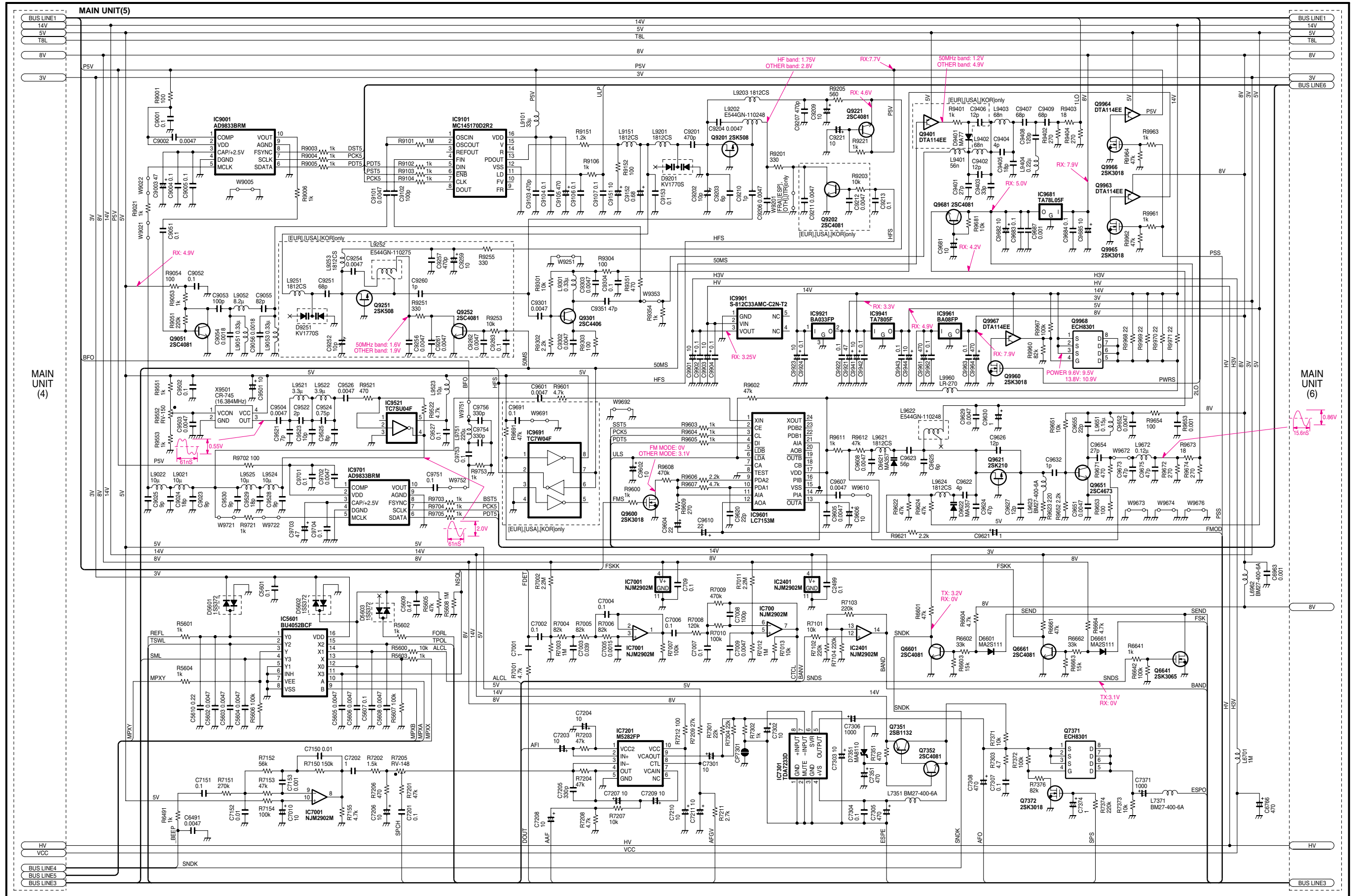
11-2 MAIN UNIT

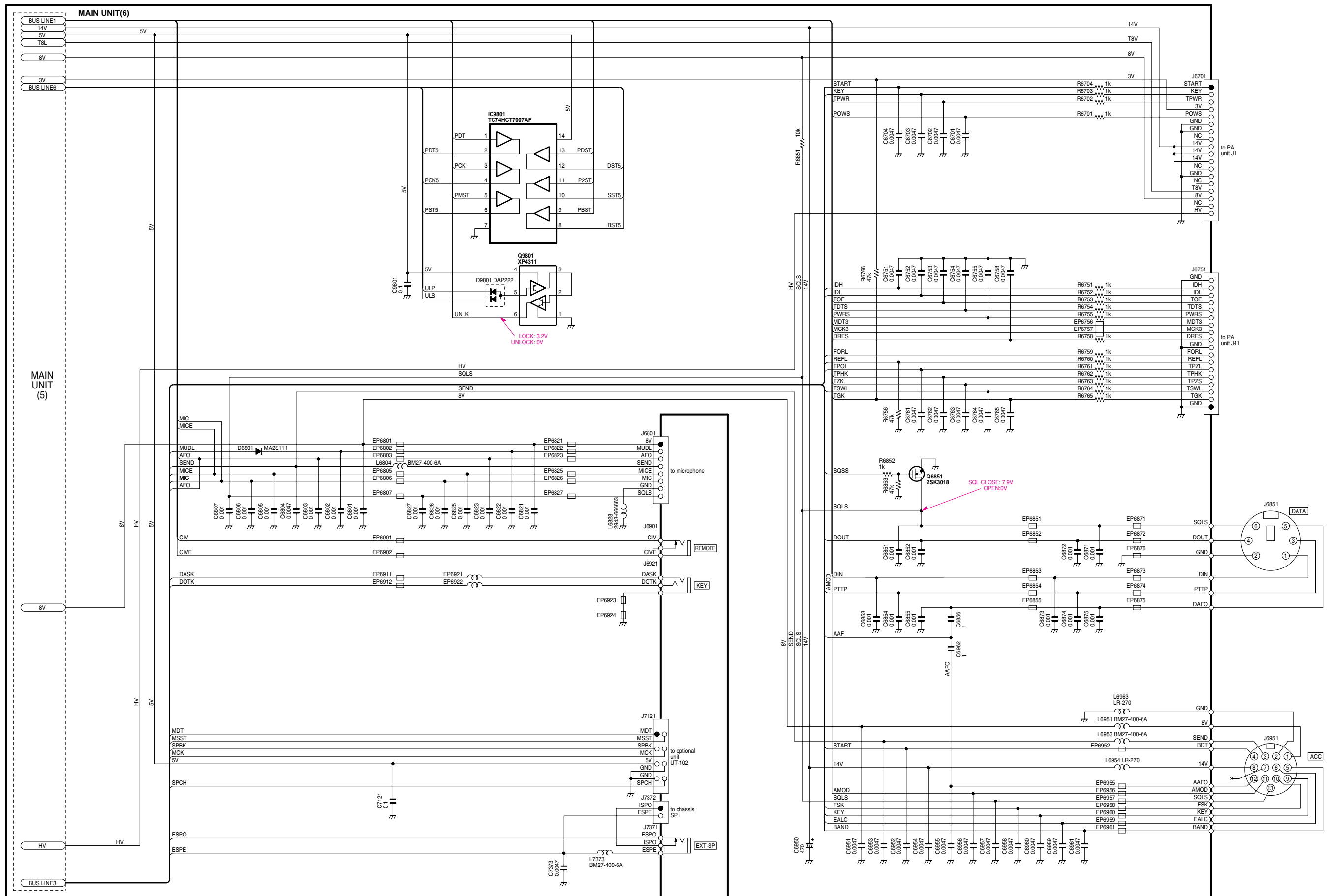




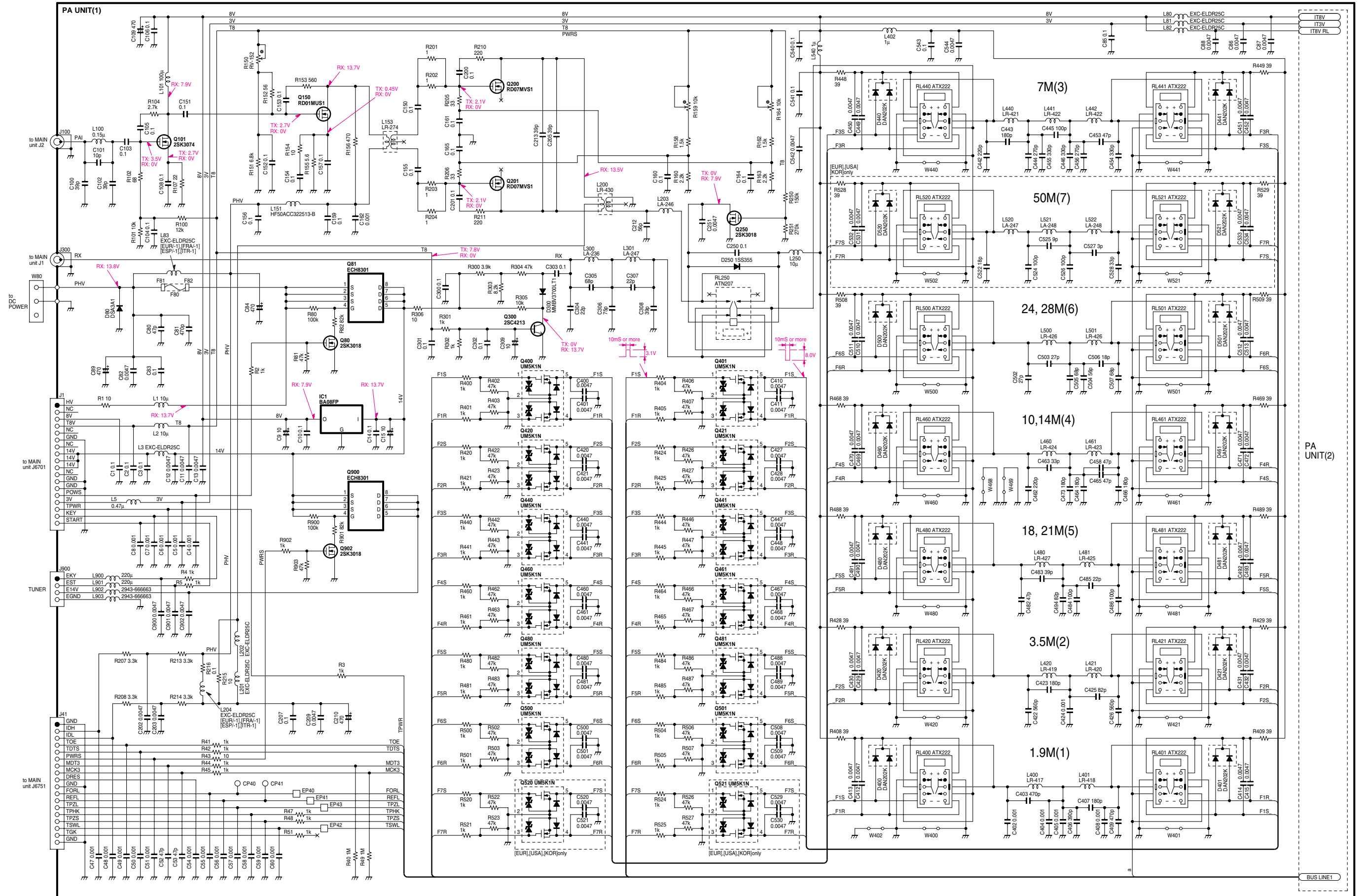


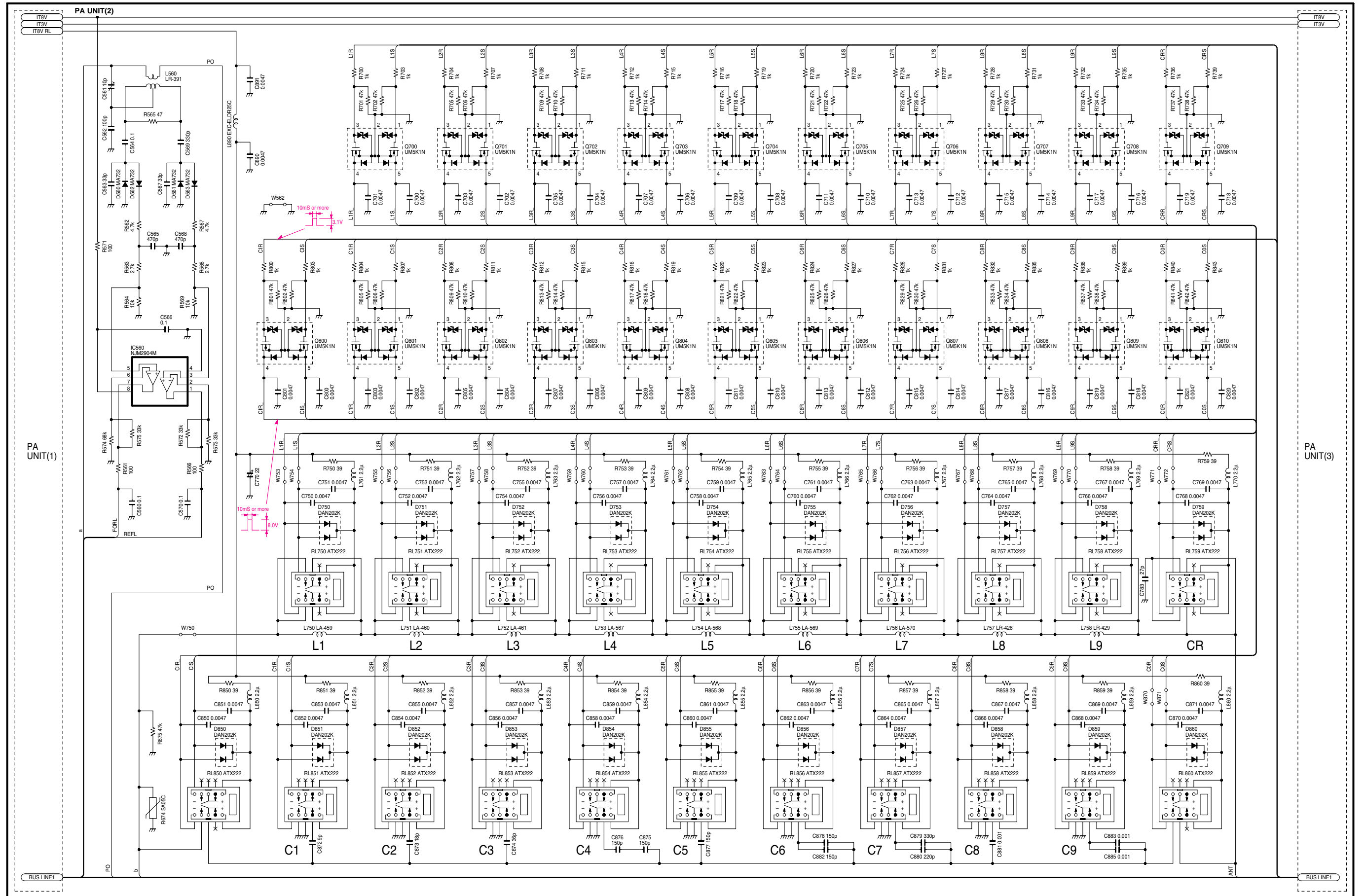


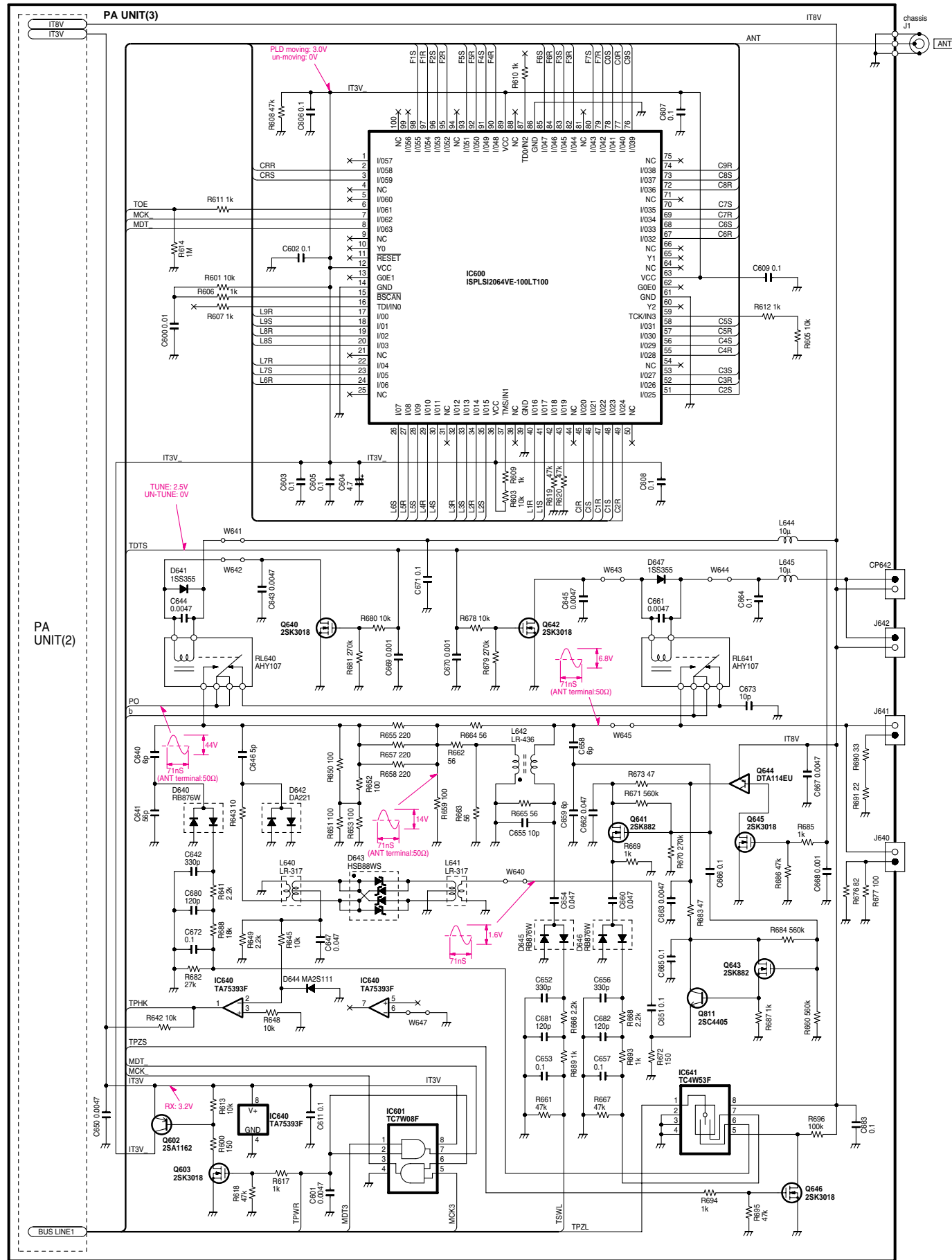




11-3 PA UNIT







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