

VHF FM REPEATER

# TKR-751

## SERVICE MANUAL

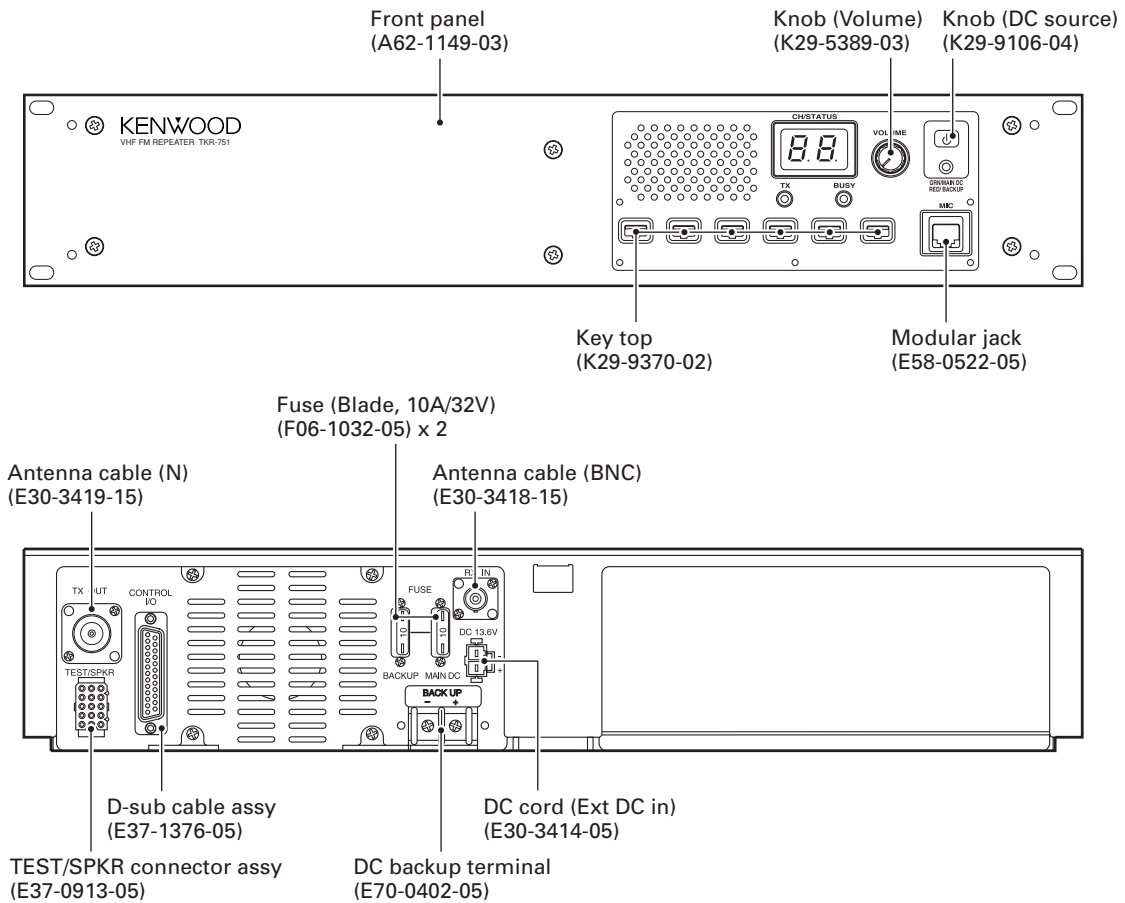
### SUPPLEMENT II

# KENWOOD

Kenwood Corporation

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This service manual is applied from the following serial numbers.  
K: 809xxxxx~, E: 801xxxxx~



This product uses Lead Free solder.

## CONTENTS

<b>PARTS LIST</b> .....	<b>3</b>	<b>TX-RX UNIT (X57-695X-XX) (A/2)</b> .....	<b>34</b>
<b>EXPLODED VIEW</b> .....	<b>14</b>	<b>TX-RX UNIT (X57-695X-XX) (B/2)</b> .....	<b>38</b>
<b>ADJUSTMENT</b> .....	<b>16</b>	<b>RX VCO UNIT (X58-4942-70)</b> .....	<b>42</b>
<b>PC BOARD</b>		<b>TX VCO UNIT (X58-4952-70)</b> .....	<b>43</b>
<b>FINAL UNIT (X45-3732-71)</b> .....	<b>26</b>	<b>SCHEMATIC DIAGRAM</b> .....	<b>44</b>
<b>DISPLAY UNIT (X54-3580-20)</b> .....	<b>30</b>		

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### Service Manual List

Title	Parts number	Remarks	Destination	Final unit	Display unit	TX-RX unit	RX PLL unit	TX PLL unit
TKR-751	B51-8683-00	First edition	K,E	X45-3732-71 J72-0910-09	X54-3330-21 J72-0756-12	X57-6952-70 J72-0923-09	X58-4780-10 J72-0749-02	X58-4790-10 J72-0750-12
TKR-751	B51-8700-00	Supplement S/No. 60700001~	K,E	X45-3732-71 J72-0970-19	-	-	-	-
TKR-751	B51-8788-00	Supplement 2 This service manual	K,E	X45-3732-71 J79-0099-09	X54-3580-20 J79-0035-09	X57-695X-XX J79-0097-19	X58-4942-70 J79-0038-09	X58-4952-70 J79-0039-09

## PARTS LIST

\* New Parts.  $\Delta$  indicates safety critical components.

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

L : Scandinavia

Y : PX (Far East, Hawaii)

Y : AAFES (Europe)

K : USA

T : England

X : Australia

P : Canada

E : Europe

M : Other Areas

### TKR-751 (Y54-322X-XX) FINAL UNIT (X45-3732-71)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
<b>TKR-751</b>											
1	2B		A10-4037-21	CHASSIS		52	1E		H25-0029-04	PROTECTION BAG (60/110/0.07)	
5	3A		A62-0933-13	PANEL ASSY		53	1F		H25-0747-04	PROTECTION BAG (250X350)	
2	1B		A62-1146-04	PANEL		54	1E		H25-0762-04	PROTECTION BAG (120X300)	
3	1B		A62-1147-04	PANEL		55	1F		H25-2328-04	PROTECTION BAG (80/250/0.07)	
4	1D		A62-1148-03	PANEL		57	3F		H52-2012-02	ITEM CARTON CASE	
6	3C		A62-1149-03	FRONT PANEL ASSY		59	1E		J02-0475-05	FOOT ACCESSORY	
8	1F		B10-2635-04	FRONT GLASS ACCESSORY		60	1E		J02-0492-04	FOOT ACCESSORY	
9	1F		B11-1259-04	FILTER ACCESSORY		64	1B		J21-8467-04	MOUNTING HARDWARE (DRIVE FET)	
10	3B		B42-7157-04	STICKER (MODEL NAME)		73	3A		J21-8556-04	MOUNTING HARDWARE (SPEAKER)	
11	1F		B62-1774-10	INSTRUCTION MANUAL	E	74	3A		J21-8557-04	MOUNTING HARDWARE (SPEAKER)	
11	1F		B62-1775-10	INSTRUCTION MANUAL	K	61	1F		J21-8559-04	MOUNTING HARDWARE ACCESSORY	
12	2C,3D		B72-2199-04	MODEL NAME-PLATE	E	62	1E		J59-0302-05	GROMMET ACCESSORY	
12	2C,3D		B72-2200-04	MODEL NAME-PLATE	K	-			J61-0307-05	BAND	
14	2C		E30-3414-05	DC CORD (EXT DC IN)		65	1E		K01-0418-15	HANDLE ACCESSORY	
15	1C		E30-3418-15	ANTENNA CABLE (BNC)		66	3A		K29-5389-03	KNOB (VOLUME)	
16	2C		E30-3419-15	ANTENNA CABLE (N)		68	3A		K29-9106-04	KNOB (DC SOURCE)	
17	1E		E30-3427-25	DC CORD ACCESSORY		67	3A		K29-9370-02	KEY TOP	
18	1E		E31-3228-05	TEST/SPKR PLUG ACCESSORY		75	1E		L79-1419-05	LINE FILTER	E
19	1B		E37-0902-05	DCAD WIRE (RED)		71	2B		L79-1854-05	LINE FILTER	E
20	1B		E37-0903-05	DC WIRE (BLACK)		77	1C	*	L79-1855-05	LINE FILTER	E
22	3B		E37-0905-15	SPEAKER CABLE		A	2C		N09-2292-05	HEXAGON HEAD SCREW	
23	3A		E37-0906-05	LEAD WIRE WITH CONNECTOR (CONT-DISP)		B	1C,2C		N30-2606-48	PAN HEAD MACHINE SCREW	
24	3A		E37-0908-05	LEAD WIRE WITH CONNECTOR (11P)		C	2A,1E		N30-4006-48	PAN HEAD MACHINE SCREW	
25	2B		E37-0909-05	LEAD WIRE WITH CONNECTOR (8P)		D	2B,2C		N30-4014-48	PAN HEAD MACHINE SCREW	
26	1B		E37-0911-05	LEAD WIRE WITH CONNECTOR (3P)		E	1C		N30-4020-43	PAN HEAD MACHINE SCREW	
27	2B		E37-0912-05	COAXIAL CABLE		F	1C,2C		N32-3006-48	FLAT HEAD MACHINE SCREW	
28	2C		E37-0913-05	TEST/SPKR CONNECTOR ASSY		G	3B,3C		N32-4008-43	FLAT HEAD MACHINE SCREW	
29	1B		E37-0934-05	DC WIRE (ORANGE)		J	1E		N35-3006-43	BINDING HEAD MACHINE SCREW	
30	2C		E37-0964-05	DC BACKUP WIRE (BLACK)		K	1C		N35-4006-43	BINDING HEAD MACHINE SCREW	
31	2C		E37-0965-05	DC BACKUP WIRE (RED)		L	1B,3B		N67-3008-48	PAN HEAD SEMS SCREW	
32	2B		E37-1340-05	FLAT CABLE (36P)		M	1C		N80-2608-43	PAN HEAD TAPTITE SCREW	
21	2C	*	E37-1376-05	D-SUB CABLE ASSY		N	2C		N87-2606-48	BRAZIER HEAD TAPTITE SCREW	
33	2C		E70-0402-05	DC BACKUP TERMINAL		O	3A		N87-3005-43	BRAZIER HEAD TAPTITE SCREW	
35	1C,1E		F06-1032-05	FUSE (BLADE TYPE) (10A/32V)		P	2B,3B		N87-3006-48	BRAZIER HEAD TAPTITE SCREW	
36	2C		F09-0445-05	CAP (D-SUB) ACCESSORY		R	2C		N90-3014-48	TP HEAD MACHINE SCREW	
37	1C		F09-0471-15	FANMOTOR		70	3A		T07-0770-25	SPEAKER	
-	-		F10-2374-04	SHIELDING PLATE (TX/RX)		-	-		490-0174-05	ADHESIVE TAPE	
-	-		F10-2379-04	SHIELDING CASE (TX/TX COMP)		<b>FINAL UNIT (X45-3732-71)</b>					
-	-		F10-2409-04	SHIELDING CASE (TX/RX FOIL)		C1,2			CK73GB1H102K	CHIP C 1000PF	K
41	1C		F20-3322-04	INSULATING SHEET (BACKUP)		C3			CD04AY1E101M	ELECTRO 100UF	25WV
43	1B		G02-0576-14	FLAT SPRING		C7			CK73GB1H102K	CHIP C 1000PF	K
45	3B		G02-0885-13	EARTH SPRING		C9,10			CK73GB1H102K	CHIP C 1000PF	K
51	1B		G02-0894-04	EARTH SPRING (FINAL FET)		C11			CC73GCH1H470J	CHIP C 47PF	J
39	2D	*	G02-1831-04	EARTH SPRING (REAR PANEL)		C12			CK73GB1H102K	CHIP C 1000PF	K
46	2B,3B		G10-1263-04	FIBROUS SHEET (CHASSIS)		C13			CK73FB1E104K	CHIP C 0.10UF	K
47	3C,2D		G10-1264-04	FIBROUS SHEET (FINAL)		C14,15			CK73GB1H102K	CHIP C 1000PF	K
56	3B		G10-1344-04	FIBROUS SHEET		C16			CK73FB1H102K	CHIP C 1000PF	K
58	3B		G10-1345-04	FIBROUS SHEET		C19			C93-0603-05	CHIP C 1000PF	K
48	1F		G13-1801-04	CUSHION ACCESSORY		C21			C93-0564-05	CHIP C 22PF	J
49	1F		G13-1802-04	CUSHION ACCESSORY		C22			C93-0568-05	CHIP C 47PF	J
72	3A		G13-2171-04	CUSHION (SPEAKER)		C27			CK73FB1H102K	CHIP C 1000PF	K
						C28			CK73GB1H102K	CHIP C 1000PF	K
						C29			C93-0603-05	CHIP C 1000PF	K

## PARTS LIST

### FINAL UNIT (X45-3732-71)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C30			C93-0573-05	CHIP C 120PF J		CN51,52			J13-0071-05	FUSE HOLDER	
C31			C93-0569-05	CHIP C 56PF J		L2			L41-4775-33	SMALL FIXED INDUCTOR (0.047UH)	
C32			C93-0603-05	CHIP C 1000PF K		L3			L41-6875-33	SMALL FIXED INDUCTOR (0.068UH)	
C35			CK73GB1H102K	CHIP C 1000PF K		L4,5			L34-4518-05	AIR-CORE COIL	
C37			CK73FB1E474K	CHIP C 0.47UF K		L6			L34-4520-05	AIR-CORE COIL	
C39			CK73GB1H102K	CHIP C 1000PF K		L7			L34-4523-05	AIR-CORE COIL	
C42			CK73FB1H223K	CHIP C 0.022UF K		L8			L34-4518-05	AIR-CORE COIL	
C43,44			CK73GB1H102K	CHIP C 1000PF K		L9-11			L34-4520-05	AIR-CORE COIL	
C46			C93-0603-05	CHIP C 1000PF K		L12			L34-4523-05	AIR-CORE COIL	
C49			C93-0564-05	CHIP C 22PF J		L16			L40-1575-92	SMALL FIXED INDUCTOR (15NH)	
C53			CK73FB1H473K	CHIP C 0.047UF K		L17			L40-1875-92	SMALL FIXED INDUCTOR (18NH)	
C54			CM73F2H102J	CHIP C 1000PF J		L19			L34-4667-05	AIR-CORE COIL	
C55			CK73GB1H103K	CHIP C 0.010UF K		L20			L34-4744-05	AIR-CORE COIL	
C57			CD04AY1E470M	ELECTRO 47UF 25WV		R1			RK73FB2B100J	CHIP R 10 J 1/8W	
C60			CK73GB1H102K	CHIP C 1000PF K		R6			RK73GB2A220J	CHIP R 22 J 1/10W	
C64			CK73GB1H102K	CHIP C 1000PF K		R7			RK73GB2A822J	CHIP R 8.2K J 1/10W	
C68			CK73GB1H102K	CHIP C 1000PF K		R8			RK73FB2B100J	CHIP R 10 J 1/8W	
C69,70			C93-0559-05	CHIP C 9.0PF D		R9			RK73FB2B560J	CHIP R 56 J 1/8W	
C71			C93-0563-05	CHIP C 18PF J		R10			RK73FB2B151J	CHIP R 150 J 1/8W	
C72			C93-0564-05	CHIP C 22PF J		R11			RK73GB2A472J	CHIP R 4.7K J 1/10W	
C75			C93-0566-05	CHIP C 33PF J		R13			RK73GB2A471J	CHIP R 470 J 1/10W	
C77			C93-0564-05	CHIP C 22PF J		R14		*	RK73RB2H820J	CHIP R 82 J 1/2W	
C80-87			CK73GB1H102K	CHIP C 1000PF K		R15			RK73RB2H101J	CHIP R 100 J 1/2W	
C89			CC73GCH1H101J	CHIP C 100PF J		R16		*	RK73RB2H820J	CHIP R 82 J 1/2W	
C90			CK73GB1H102K	CHIP C 1000PF K		R17			RK73FB2B154J	CHIP R 150K J 1/8W	
C91			C92-0777-05	ELECTRO 1000UF 25WV		R18			RK73EB2E101J	CHIP R 100 J 1/4W	
C92			CM73F2H102J	CHIP C 1000PF J		R19			RK73FB2B104J	CHIP R 100K J 1/8W	
C96			CC73FCH1H180J	CHIP C 18PF J		R20,21			RK73GB2A000J	CHIP R 0.0 J 1/10W	
C98			CK73GB1H102K	CHIP C 1000PF K		R22			RK73RB2H120J	CHIP R 12 J 1/2W	
C99			C90-4016-05	ELECTRO 47UF 16WV		R23,24			RK73FB2B104J	CHIP R 100K J 1/8W	
C103			CC73GCH1H101J	CHIP C 100PF J		R25			RK73GB2A473J	CHIP R 47K J 1/10W	
C105			CC73GCH1H101J	CHIP C 100PF J		R26			RK73GB2A101J	CHIP R 100 J 1/10W	
C106-109			CK73GB1H102K	CHIP C 1000PF K		R27			RK73GB2A471J	CHIP R 470 J 1/10W	
C110			CS77AA1A100M	CHIP TNL 10UF 10WV		R28			RK73GB2A474J	CHIP R 470K J 1/10W	
C112			C93-0560-05	CHIP C 10PF D		R29			RK73GB2A000J	CHIP R 0.0 J 1/10W	
C117			CM73F2H221J	CHIP C 220PF J		R30			RK73GB2A683J	CHIP R 68K J 1/10W	
C118			CK73FB1E474K	CHIP C 0.47UF K		R31			RK73GB2A103J	CHIP R 10K J 1/10W	
C136,137			CK73GB1H102K	CHIP C 1000PF K		R32			RK73GB2A104J	CHIP R 100K J 1/10W	
C143			CC73FCH1H330J	CHIP C 33PF J		R34			RK73GB2A000J	CHIP R 0.0 J 1/10W	
C145			CC73GCH1H220J	CHIP C 22PF J		R35			RK73GB2A104J	CHIP R 100K J 1/10W	
C146			CC73GCH1H101J	CHIP C 100PF J		R36			RK73GB2A000J	CHIP R 0.0 J 1/10W	
C160			CM73F2H102J	CHIP C 1000PF J		R38			RK73GB2A333J	CHIP R 33K J 1/10W	
C161,162			CM73F2H270J	CHIP C 27PF J		R40			R92-1204-05	CHIP R 100 J 1/4W	
C163			C93-0569-05	CHIP C 56PF J		R41			RK73GB2A000J	CHIP R 0.0 J 1/10W	
C164			CM73F2H820J	CHIP C 82PF J		R45			RK73GB2A101J	CHIP R 100 J 1/10W	
C165			CK73FB1H102K	CHIP C 1000PF K		R48			RK73GB2A471J	CHIP R 470 J 1/10W	
C166			CC73GCH1H220J	CHIP C 22PF J		R49			RK73RB2H000J	CHIP R 0.0 J 1/2W	
C167			CC73GCH1H101J	CHIP C 100PF J		R50		*	RK73EB2E222J	CHIP R 2.2K J 1/4W	
C168-171			CC73GCH1H220J	CHIP C 22PF J		R52,53			RK73GB2A102J	CHIP R 1.0K J 1/10W	
C172			CC73GCH1H101J	CHIP C 100PF J		R55			RK73GB2A102J	CHIP R 1.0K J 1/10W	
C173			C93-0563-05	CHIP C 18PF J		R56			R92-1317-05	CHIP R 18 J 1W	
C174			CC73FCH1H270J	CHIP C 27PF J		R57			RK73GB2A224J	CHIP R 220K J 1/10W	
CN1			E04-0154-05	PIN SOCKET		R60			RK73GB2A000J	CHIP R 0.0 J 1/10W	
CN3			E41-2738-05	PIN ASSY		R61		*	R92-3613-05	RESISTOR 5.6 5W	
CN4			E41-1682-05	PIN ASSY		R62,63			RK73FB2B000J	CHIP R 0.0 J 1/8W	
CN5			E41-2672-05	PIN ASSY		R64			RK73GB2A000J	CHIP R 0.0 J 1/10W	
CN6-8			E23-0462-05	TERMINAL		R70			R92-1205-05	CHIP R 120 J 1/4W	
F1			F53-0392-05	FUSE		R71			RK73FB2B000J	CHIP R 0.0 J 1/8W	

## PARTS LIST

FINAL UNIT (X45-3732-71)

DISPLAY UNIT (X54-3580-20)

TX-RX UNIT (X57-695X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
R72			RK73RB2H121J	CHIP R 120 J 1/2W		R505			RK73GB2A683J	CHIP R 68K J 1/10W	
R73			RK73GB2A000J	CHIP R 0.0 J 1/10W		R506			RK73GB2A103J	CHIP R 10K J 1/10W	
VR1			R12-6427-05	TRIMMING POT. (47K)		R507			RK73GB2A682J	CHIP R 6.8K J 1/10W	
K1			S76-0426-05	RELAY		R508			RK73GB2A102J	CHIP R 1.0K J 1/10W	
D1		*	1SS226-F	DIODE		R509			RK73GB2A103J	CHIP R 10K J 1/10W	
D2		*	02DZ6.2F-Y	ZENER DIODE		R510			RK73GB2A224J	CHIP R 220K J 1/10W	
D4,5			HSM88AS-E	DIODE		R511,512			RK73GB2A103J	CHIP R 10K J 1/10W	
D6			1SS355	DIODE		R513			RK73GB2A104J	CHIP R 100K J 1/10W	
D7			ZSA5A27	ZENER DIODE		R514			RK73GB2A154J	CHIP R 150K J 1/10W	
D8			RB051L-40	DIODE		R516			RK73PB2H102J	CHIP R 1.0K J 1/2W	
D9			MINISMDC05002F	VARIATOR		R517			RK73PB2H821J	CHIP R 820 J 1/2W	
D51,52			DSA3A1	DIODE		R518,519			RK73PB2H102J	CHIP R 1.0K J 1/2W	
D53			MA4PH633	DIODE		R520-526			RK73PB2H821J	CHIP R 820 J 1/2W	
D55,56			MA4PH633	DIODE		R529-540			RK73GB2A102J	CHIP R 1.0K J 1/10W	
IC1			TA75W01FUF	MOS-IC		R541-544			RK73GB2A103J	CHIP R 10K J 1/10W	
IC2		*	SM6611ABH-G	ANALOGUE IC		R601			RK73GB2A681J	CHIP R 680 J 1/10W	
IC3			NJM78L05UA-ZB	BI-POLAR IC		R604,605			RK73GB2A102J	CHIP R 1.0K J 1/10W	
Q2		*	2SC3356-A(R24)	TRANSISTOR		R606			RK73GB2A473J	CHIP R 47K J 1/10W	
Q3			2SC3357-A	TRANSISTOR		VR501			R32-0689-05	TRIMMING POT. (10K)	
Q4	1B		PD55003S-E	FET (DRIVE)		VR601			R31-0630-05	VARIABLE RESISTOR	
Q5	1B	*	RD70HVF1-101	FET (FINAL)		S501-506			S70-0502-05	TACT SWITCH	
Q8			2SC4116(Y)F	TRANSISTOR		S507			S68-0410-05	PUSH SWITCH	
Q9			DTD123EK	DIGITAL TRANSISTOR		D501,502			HSM88AS-E	DIODE	
TH1	1B		PTH9M04BE471TS	THERMISTOR		D506,507			LA-501DD	LED	
<b>DISPLAY UNIT (X54-3580-20)</b>						D508-514			DA204U	DIODE	
D503-505			B30-2151-05	LED (RED/GREEN)		D601,602			DA204U	DIODE	
C501			CS77AA1A100M	CHIP TNTL 10UF 10WV		D603			MINISMDC020F	VARIATOR	
C502,503			CS77AA1A1R5M	CHIP TNTL 1.5UF 10WV		IC501			NJM4558E-ZB	ANALOGUE IC	
C504,505			CK73GB1C104K	CHIP C 0.10UF K		IC502-505			BU4094BCFV	MOS-IC	
C506			CC73GCH1H470J	CHIP C 47PF J		IC506,507			TA78L05FF	MOS-IC	
C507,508			CK73GB1C104K	CHIP C 0.10UF K		Q501			2SC4116(Y)F	TRANSISTOR	
C509			CK73GB1H103K	CHIP C 0.010UF K		Q502			2SA1586(Y,GR)F	TRANSISTOR	
C510			CS77AA1A100M	CHIP TNTL 10UF 10WV		Q503,504			UPA672T-A	FET	
C511,512			CK73GB1E103K	CHIP C 0.010UF K		Q506			DTA114EUA	DIGITAL TRANSISTOR	
C513-518			CC73GCH1H101J	CHIP C 100PF J		Q507			UPA672T-A	FET	
C519,520			CK73GB1E103K	CHIP C 0.010UF K		Q508-511			DTA114EUA	DIGITAL TRANSISTOR	
C521			CS77AA1A100M	CHIP TNTL 10UF 10WV		Q512-514			UPA672T-A	FET	
C522			CK73GB1C104K	CHIP C 0.10UF K		Q516-519			UPA672T-A	FET	
C523			CK73FB1E334K	CHIP C 0.33UF K		Q521-524			UPA672T-A	FET	
C524			CS77AA1A100M	CHIP TNTL 10UF 10WV		Q525			2SK1824-A	FET	
C525			CK73GB1C104K	CHIP C 0.10UF K		<b>TX-RX UNIT (X57-695X-XX) 0-11 : K 2-70 : E</b>					
C526			CK73FB1E334K	CHIP C 0.33UF K		C1			CC73GCH1H060D	CHIP C 6.0PF D	
C601			CC73GCH1H101J	CHIP C 100PF J		C2			CC73GCH1H390J	CHIP C 39PF J	
C602			CK73GB1H102K	CHIP C 1000PF K		C3			CC73GCH1H020C	CHIP C 2.0PF C	
C603			CC73GCH1H101J	CHIP C 100PF J		C4			CC73GCH1H0R5C	CHIP C 0.5PF C	
C606			CC73GCH1H101J	CHIP C 100PF J		C5			CC73GCH1H060D	CHIP C 6.0PF D	
C607			CK73GB1C104K	CHIP C 0.10UF K		C6			CC73GCH1H390J	CHIP C 39PF J	
CN501			E41-2743-05	PIN ASSY		C7			CK73GB1H103K	CHIP C 0.010UF K	
CN502			E40-6102-05	PIN ASSY		C8,9			CK73GB1H102K	CHIP C 1000PF K	
CN601			E41-2751-05	PIN ASSY		C10			CC73GCH1H101J	CHIP C 100PF J	
J601			E58-0522-05	MODULAR JACK		C11			CC73GCH1H060D	CHIP C 6.0PF D	
-			J31-0543-05	COLLAR (LH-5-1.5)		C12			CC73GCH1H390J	CHIP C 39PF J	
CP501-504			RK75GB1J471J	CHIP-COM 470 J 1/16W		C13			CC73GCH1H020C	CHIP C 2.0PF C	
R502,503			RK73GB2A000J	CHIP R 0.0 J 1/10W		C14			CC73GCH1H0R5C	CHIP C 0.5PF C	
						C15			CC73GCH1H050C	CHIP C 5.0PF C	
						C16			CC73GCH1H020C	CHIP C 2.0PF C	

If a part reference number is listed in a shaded box, that part does not come with the PCB.

## PARTS LIST

## TX-RX UNIT (X57-695X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C17			CC73GCH1H010C	CHIP C 1.0PF C		C108			CC73GCH1H030C	CHIP C 3.0PF C	
C18			CC73GCH1H060D	CHIP C 6.0PF D		C109			CC73GCH1H270J	CHIP C 27PF J	
C19			CC73GCH1H180J	CHIP C 18PF J		C110			CC73GCH1H030C	CHIP C 3.0PF C	
C20			CC73GCH1H101J	CHIP C 100PF J		C111			CC73GCH1H270J	CHIP C 27PF J	
C22			CC73GCH1H100D	CHIP C 10PF D		C113			CC73GCH1H150J	CHIP C 15PF J	
C23			CC73GCH1H180J	CHIP C 18PF J		C120,121			CK73GB1H102K	CHIP C 1000PF K	
C24			C92-0864-05	CHIP TNTL 10UF 10WV		C122,123			CK73GB1H103K	CHIP C 0.010UF K	
C25			CS77AA1A100M	CHIP TNTL 10UF 10WV		C124,125	*		C92-0859-05	ELECTRO 100UF 16WV	
C30			CC73GCH1H680J	CHIP C 68PF J		C126,127			CS77AB21C220M	CHIP TNTL 22UF 16WV	
C31			CC73GCH1H331J	CHIP C 330PF J		C128,129			CK73GB1H103K	CHIP C 0.010UF K	
C32			CK73GB1H103K	CHIP C 0.010UF K		C130-133			CK73GB1H102K	CHIP C 1000PF K	
C33			CC73GCH1H330J	CHIP C 33PF J		C134,135			CK73GB1H103K	CHIP C 0.010UF K	
C34			CK73GB1H103K	CHIP C 0.010UF K		C136-139			C90-4016-05	ELECTRO 47UF 16WV	
C36			CK73GB1H102K	CHIP C 1000PF K		C140,141			CK73GB1H103K	CHIP C 0.010UF K	
C37			CK73GB1H103K	CHIP C 0.010UF K		C142-144			CK73GB1H102K	CHIP C 1000PF K	
C38,39			CC73GCH1H680J	CHIP C 68PF J		C145			CS77AA1A4R7M	CHIP TNTL 4.7UF 10WV	
C40,41			CK73GB1H103K	CHIP C 0.010UF K		C146			CK73GB1H102K	CHIP C 1000PF K	
C42,43			CC73GCH1H030C	CHIP C 3.0PF C		C147			CS77AB21C220M	CHIP TNTL 22UF 16WV	
C44,45			CC73GCH1H040C	CHIP C 4.0PF C		C148			CK73GB1H102K	CHIP C 1000PF K	
C46,47			CC73GCH1H030C	CHIP C 3.0PF C		C149			CK73GB1H103K	CHIP C 0.010UF K	
C48			CK73GB1H103K	CHIP C 0.010UF K		C150			CS77AB21C220M	CHIP TNTL 22UF 16WV	
C49,50			CC73GCH1H680J	CHIP C 68PF J		C151			CS77CB21C3R3M	CHIP TNTL 3.3UF 16WV	
C51			CK73GB1H103K	CHIP C 0.010UF K		C152			CK73GB1H103K	CHIP C 0.010UF K	
C52			CK73GB1H103J	CHIP C 0.010UF J		C153			CK73GB1H102K	CHIP C 1000PF K	
C53			CK73GB1H102K	CHIP C 1000PF K		C154			CS77AA1C100M	CHIP TNTL 10UF 16WV	
C54			CK73GB1H103J	CHIP C 0.010UF J		C155			CK73GB1H103K	CHIP C 0.010UF K	
C55,56			CK73GB1H103K	CHIP C 0.010UF K		C156			CK73GB1H102K	CHIP C 1000PF K	
C57			CK73GB1H103J	CHIP C 0.010UF J		C157			CK73GB1H103K	CHIP C 0.010UF K	
C58			CC73GCH1H180J	CHIP C 18PF J		C158			CS77CB21C3R3M	CHIP TNTL 3.3UF 16WV	
C59			CC73GCH1H150J	CHIP C 15PF J		C159,160			CK73GB1H102K	CHIP C 1000PF K	
C60			CK73GB1H103J	CHIP C 0.010UF J		C161-163			CK73GB1H103K	CHIP C 0.010UF K	
C61			CC73GCH1H080D	CHIP C 8.0PF D		C164			CC73GCH1H471J	CHIP C 470PF J	
C62,63			CK73GB1H103K	CHIP C 0.010UF K		C166,167			CK73GB1H102K	CHIP C 1000PF K	
C64			CK73GB1C104K	CHIP C 0.10UF K		C171,172			CK73GB1H102K	CHIP C 1000PF K	
C65			CS77AA1C100M	CHIP TNTL 10UF 16WV		C173			CK73GB1H103K	CHIP C 0.010UF K	
C66,67			CC73GCH1H331J	CHIP C 330PF J		C174			CS77CB21C3R3M	CHIP TNTL 3.3UF 16WV	
C68-70			CK73GB1C104K	CHIP C 0.10UF K		C175			CK73GB1H102K	CHIP C 1000PF K	
C71			CK73GB1H103K	CHIP C 0.010UF K		C176			CK73GB1H103K	CHIP C 0.010UF K	
C72			CS77AA1C100M	CHIP TNTL 10UF 16WV		C177			CK73GB1H102K	CHIP C 1000PF K	
C73			CK73GB1C104K	CHIP C 0.10UF K		C178			CS77AA1A4R7M	CHIP TNTL 4.7UF 10WV	
C74			CK73GB1H102K	CHIP C 1000PF K		C179			CK73GB1H103K	CHIP C 0.010UF K	
C75			CK73GB1C104K	CHIP C 0.10UF K		C184,185			CK73GB1H102K	CHIP C 1000PF K	
C76			CS77AC1A470M	CHIP TNTL 47UF 10WV		C189,190			CK73GB1H102K	CHIP C 1000PF K	
C77			CK73GB1H102K	CHIP C 1000PF K		C191-195			CK73GB1H103K	CHIP C 0.010UF K	
C78			CK73GB1C104K	CHIP C 0.10UF K		C197			CK73FB1H333K	CHIP C 0.033UF K	
C79			CK73FB1C224K	CHIP C 0.22UF K		C198			CK73GB1C104K	CHIP C 0.10UF K	
C80,81			CS77AA1A100M	CHIP TNTL 10UF 10WV		C199			CK73GB1H103K	CHIP C 0.010UF K	
C82-84			CK73GB1H103K	CHIP C 0.010UF K		C204-208			CC73GCH1H101J	CHIP C 100PF J	
C86			CK73GB1H102K	CHIP C 1000PF K		C209-211			CK73GB1H103K	CHIP C 0.010UF K	
C87			CS77AA1A100M	CHIP TNTL 10UF 10WV		C212-214			CC73GCH1H050C	CHIP C 5.0PF C	
C88			CK73GB1H102K	CHIP C 1000PF K		C216			CK73GB1H471K	CHIP C 470PF K	
C89,90			CK73GB1H103J	CHIP C 0.010UF J		C217			CK73GB1H102K	CHIP C 1000PF K	
C91			CC73GCH1H100D	CHIP C 10PF D		C218			CK73GB1H103K	CHIP C 0.010UF K	
C92,93			CK73GB1H102K	CHIP C 1000PF K		C219			CS77AB21A220M	CHIP TNTL 22UF 10WV	
C95			CC73GCH1H150J	CHIP C 15PF J		C600			CK73GB1C104K	CHIP C 0.10UF K	
C96-99			CK73GB1H102K	CHIP C 1000PF K		C602			CK73GB1C104K	CHIP C 0.10UF K	
C100			CC73GCH1H270J	CHIP C 27PF J		C605			CK73GB1C104K	CHIP C 0.10UF K	
C102-105			CC73GCH1H100D	CHIP C 10PF D		C613,614			CK73GB1E103K	CHIP C 0.010UF K	
C106			CK73GB1H102K	CHIP C 1000PF K		C616			CK73GB1E103K	CHIP C 0.010UF K	
C107			CC73GCH1H150J	CHIP C 15PF J		C623			CK73GB1C104K	CHIP C 0.10UF K	

## PARTS LIST

TX-RX UNIT (X57-695X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
C629			CC73GCH1H101J	CHIP C 100PF J		C744-746			CS77AA1A100M	CHIP TNTL 10UF 10WV	
C634,635			CC73GCH1H220J	CHIP C 22PF J		C747,748			CK73GB1E103K	CHIP C 0.010UF K	
C638			CK73GB1C104K	CHIP C 0.10UF K		C749			CK73GB1H471K	CHIP C 470PF K	
C639			CK73GB1E103K	CHIP C 0.010UF K		C750,751			CK73GB1E103K	CHIP C 0.010UF K	
C640			CS77AA1A100M	CHIP TNTL 10UF 10WV		C752			CK73GB1H471K	CHIP C 470PF K	
C641			CK73GB1C104K	CHIP C 0.10UF K		C753,754			CS77AA1A100M	CHIP TNTL 10UF 10WV	
C642			CK73GB1E103K	CHIP C 0.010UF K		C755			CK73GB1H471K	CHIP C 470PF K	
C643			CS77AA1A100M	CHIP TNTL 10UF 10WV		C756,757			CS77AA1A100M	CHIP TNTL 10UF 10WV	
C644			CK73GB1E103K	CHIP C 0.010UF K		C758			CK73FB1C105K	CHIP C 1.0UF K	
C645,646			CS77AA1A100M	CHIP TNTL 10UF 10WV		C759			CK73GB1H471K	CHIP C 470PF K	
C647			CC73GCH1H101J	CHIP C 100PF J		C760			CK73GB1H102K	CHIP C 1000PF K	
C648			CK73GB1E103K	CHIP C 0.010UF K		C761			CK73GB1C104K	CHIP C 0.10UF K	
C649			CC73GCH1H330J	CHIP C 33PF J		C762,763			CK73GB1H102K	CHIP C 1000PF K	
C652			CC73GCH1H101J	CHIP C 100PF J		C764,765			CK73GB1E103K	CHIP C 0.010UF K	
C657			CK73GB1E103K	CHIP C 0.010UF K		C766-768			CC73GCH1H101J	CHIP C 100PF J	
C662			CS77AA1A100M	CHIP TNTL 10UF 10WV		C769-771			CS77AA0J100M	CHIP TNTL 10UF 6.3WV	
C663			CS77AA1E010M	CHIP TNTL 1.0UF 25WV		C772			C92-0823-05	CHIP TNTL 100UF 10WV	
C670			CS77CA1ER47M	CHIP TNTL 0.47UF 25WV		C773			CS77AA1A2R2M	CHIP TNTL 2.2UF 10WV	
C679			CS77AA1A100M	CHIP TNTL 10UF 10WV		C774			CK73FB1C105K	CHIP C 1.0UF K	
C681	*		CS77AD21C680M	CHIP TNTL 68UF 16WV		C775-779			CS77AA1E010M	CHIP TNTL 1.0UF 25WV	
C684			CC73GCH1H101J	CHIP C 100PF J		C780-782			CK73FB1C105K	CHIP C 1.0UF K	
C685			CK73GB1E103K	CHIP C 0.010UF K		C783			CK73GB1H471K	CHIP C 470PF K	
C690			CC73GCH1H101J	CHIP C 100PF J		C784			CK73FB1C105K	CHIP C 1.0UF K	
C691,692			CK73GB1E103K	CHIP C 0.010UF K		C785,786			CK73GB1C104K	CHIP C 0.10UF K	
C693,694			CS77AA1A100M	CHIP TNTL 10UF 10WV		C787			CK73FB1C105K	CHIP C 1.0UF K	
C695,696			CK73GB1H471K	CHIP C 470PF K		C788			CC73GCH1H101J	CHIP C 100PF J	
C697,698			CS77AA1A100M	CHIP TNTL 10UF 10WV		C789	*		CD04AY1E331M	ELECTRO 330UF 25WV	
C700,701			CS77AA1A100M	CHIP TNTL 10UF 10WV		C790			CC73GCH1H101J	CHIP C 100PF J	
C703,704			CK73GB1C104K	CHIP C 0.10UF K		C791			CK73GB1H471K	CHIP C 470PF K	
C705			CK73GB1E103K	CHIP C 0.010UF K		C792-794			CK73GB1H102K	CHIP C 1000PF K	
C706			CS77AA1A100M	CHIP TNTL 10UF 10WV		C795			CC73GCH1H101J	CHIP C 100PF J	
C707-709			CK73GB1E103K	CHIP C 0.010UF K		C796,797			CK73GB1H102K	CHIP C 1000PF K	
C710			CS77AA1A100M	CHIP TNTL 10UF 10WV		C798	*		CD04AY1E470M	ELECTRO 47UF 25WV	
C711			CK73GB1H471K	CHIP C 470PF K		C799			CK73GB1H102K	CHIP C 1000PF K	
C712			CK73GB1E103K	CHIP C 0.010UF K		C800	*		CD04AY1E470M	ELECTRO 47UF 25WV	
C713,714			CS77AA1A100M	CHIP TNTL 10UF 10WV		C801			CS77AA1C100M	CHIP TNTL 10UF 16WV	
C715			CK73GB1E103K	CHIP C 0.010UF K		C802-805			CK73GB1H102K	CHIP C 1000PF K	
C716,717			CK73GB1H471K	CHIP C 470PF K		C806	*		CD04AY1E470M	ELECTRO 47UF 25WV	
C718,719			CK73GB1E103K	CHIP C 0.010UF K		C807-810			CK73GB1H102K	CHIP C 1000PF K	
C720			CS77AA21A010M	CHIP TNTL A01UF 21		C811	*		CD04AY1E470M	ELECTRO 47UF 25WV	
C721,722			CS77AA1A100M	CHIP TNTL 10UF 10WV		C812,813			CK73GB1H102K	CHIP C 1000PF K	
C723			CK73FB1C105K	CHIP C 1.0UF K		C814			C92-0777-05	ELECTRO 1000UF 25WV	
C724			CK73GB1H182K	CHIP C 1800PF K		C815			CK73FB1E104K	CHIP C 0.10UF K	
C725			CC73GCH1H470J	CHIP C 47PF J		C816			CK73GB1H102K	CHIP C 1000PF K	
C726			CC73GCH1H181J	CHIP C 180PF J		C817	*		CD04AY1E470M	ELECTRO 47UF 25WV	
C727,728			CK73GB1E103K	CHIP C 0.010UF K		C818-820			CK73GB1H102K	CHIP C 1000PF K	
C729			CS77AA1A100M	CHIP TNTL 10UF 10WV		C821,822			CC73GCH1H101J	CHIP C 100PF J	
C730,731			CK73GB1E103K	CHIP C 0.010UF K		C823			CS77AB20G470M	CHIP TNTL 47UF 4WV	
C732			CK73GB1H471K	CHIP C 470PF K		C824			CK73GB1H472K	CHIP C 4700PF K	
C733			CS77AA1A100M	CHIP TNTL 10UF 10WV		C825			CK73GB1C104K	CHIP C 0.10UF K	
C734			CC73GCH1H270J	CHIP C 27PF J		C826			CS77AA1C100M	CHIP TNTL 10UF 16WV	
C735			CC73GCH1H150J	CHIP C 15PF J		C827			C92-0823-05	CHIP TNTL 100UF 10WV	
C736			CK73GB1H182K	CHIP C 1800PF K		C828			CS77AA1A2R2M	CHIP TNTL 2.2UF 10WV	
C737			CC73GCH1H270J	CHIP C 27PF J		C829			CK73GB1C104K	CHIP C 0.10UF K	
C738			CK73GB1E103K	CHIP C 0.010UF K		C830			CK73GB1E103K	CHIP C 0.010UF K	
C739			CC73GCH1H181J	CHIP C 180PF J		C831			CK73GB1H102K	CHIP C 1000PF K	
C740			CC73GCH1H101J	CHIP C 100PF J		C832,833			CK73GB1E103K	CHIP C 0.010UF K	
C741			CK73GB1E103K	CHIP C 0.010UF K		C834,835			CK73GB1C104K	CHIP C 0.10UF K	
C742			CK73GB1H471K	CHIP C 470PF K		C836-838			CK73GB1E103K	CHIP C 0.010UF K	
C743			CK73GB1E103K	CHIP C 0.010UF K		C839			CK73GB1H271K	CHIP C 270PF K	

## PARTS LIST

### TX-RX UNIT (X57-695X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C840			CK73GB1H472K	CHIP C 4700PF K		X1			L77-1762-05	CRYSTAL RESONATOR (44.395MHZ)	
C841			CK73FB1C105K	CHIP C 1.0UF K		X2,3		*	L77-1848-15	VCXO (16.8MHZ/2.0PPM)	
C842			CS77AA1E010M	CHIP TINTL 1.0UF 25WV		X600			L78-1417-05	RESONATOR (14.7456MHZ)	
C843,844			CK73GB1C104K	CHIP C 0.10UF K		X601			L77-1799-05	CRYSTAL RESONATOR (16.515MHZ)	
C851			CK73GB1C104K	CHIP C 0.10UF K		XF1			L71-0513-05	MCF (44.85MHZ NARROW)	
C852			CK73GB1H102K	CHIP C 1000PF K		XF2			L71-0512-05	MCF (44.85MHZ WIDE)	K
CN1			E04-0154-05	PIN SOCKET		XF2		*	L71-0627-05	MCF (44.85M WIDE)	E
CN2			E41-2735-05	PIN ASSY		CP600,601			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
CN3			E04-0154-05	PIN SOCKET		CP603			RK75GA1J101J	CHIP-COM 100 J 1/16W	
CN4			E41-2735-05	PIN ASSY		CP604,605			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
CN14		*	E40-6656-05	PIN ASSY		CP606		*	RK75GA1J472J	CHIP-COM 4.7K J 1/16W	
CN15			E41-2672-05	PIN ASSY		CP607,608			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
CN16			E41-2738-05	PIN ASSY		CP609			RK75GA1J101J	CHIP-COM 100 J 1/16W	
CN18,19			E04-0154-05	PIN SOCKET		CP610,611			RK75GB1J100J	CHIP-COM 10 J 1/16W	
CN600			E40-6102-05	PIN ASSY		CP612-614			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
CN601			E40-6654-05	PIN ASSY		CP615-619			RK75GB1J100J	CHIP-COM 10 J 1/16W	
CN602		*	E40-6656-05	PIN ASSY		CP620			RK75GA1J101J	CHIP-COM 100 J 1/16W	
CN603		*	E40-6655-05	PIN ASSY		R1			RK73GB2A272J	CHIP R 2.7K J 1/10W	
CN604			E40-6653-05	PIN ASSY		R3			RK73GB2A681J	CHIP R 680 J 1/10W	
CN605			E41-2671-05	PIN ASSY		R4			RK73GB2A100J	CHIP R 10 J 1/10W	
CN606			E40-5960-05	PIN ASSY		R5			RK73GB2A680J	CHIP R 68 J 1/10W	
-			F11-0844-05	SHIELDING CASE		R6			RK73GB2A102J	CHIP R 1.0K J 1/10W	
F1			F53-0392-05	FUSE		R7			RK73GB2A103J	CHIP R 10K J 1/10W	
CF1			L72-0366-05	CERAMIC FILTER		R8			RK73GB2A333J	CHIP R 33K J 1/10W	
CF2			L72-0376-05	CERAMIC FILTER		R9			RK73GB2A101J	CHIP R 100 J 1/10W	
L1			L34-4616-05	AIR-CORE COIL		R10			RK73GB2A473J	CHIP R 47K J 1/10W	
L2,3		*	L34-4815-05	COIL		R11			RK73GB2A223J	CHIP R 22K J 1/10W	
L4			L41-1295-33	SMALL FIXED INDUCTOR (1.2UH)		R13			RK73GB2A470J	CHIP R 47 J 1/10W	
L5-7		*	L34-4815-05	COIL		R14,15			RK73GB2A271J	CHIP R 270 J 1/10W	
L8			L41-2275-33	SMALL FIXED INDUCTOR (0.022UH)		R16			RK73GB2A180J	CHIP R 18 J 1/10W	
L9			L41-5675-33	SMALL FIXED INDUCTOR (0.056UH)		R17			RK73FB2B000J	CHIP R 0.0 J 1/8W	
L10			L40-1581-37	SMALL FIXED INDUCTOR (0.150UH)		R18			RK73GB2A474J	CHIP R 470K J 1/10W	
L11			L41-1885-33	SMALL FIXED INDUCTOR (0.18UH)		R19			RK73GB2A224J	CHIP R 220K J 1/10W	
L12			L40-3381-37	SMALL FIXED INDUCTOR (0.330UH)		R20			RK73GB2A824J	CHIP R 820K J 1/10W	
L13			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R21			RK73GB2A684J	CHIP R 680K J 1/10W	
L14			L34-4794-05	COIL		R22			RK73GB2A471J	CHIP R 470 J 1/10W	
L15			L34-4793-05	COIL		R30			RK73GB2A821J	CHIP R 820 J 1/10W	
L16			L34-4794-05	COIL		R31			RK73GB2A5R6J	CHIP R 5.6 J 1/10W	
L17,18			L34-4793-05	COIL		R32			RK73GB2A821J	CHIP R 820 J 1/10W	
L19			L34-4794-05	COIL		R33			RK73GB2A470J	CHIP R 47 J 1/10W	
L20			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R34			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L21			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R35			RK73GB2A182J	CHIP R 1.8K J 1/10W	
L22			L41-8275-33	SMALL FIXED INDUCTOR (0.082UH)		R36			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L23			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R37			RK73GB2A682J	CHIP R 6.8K J 1/10W	
L24			L34-4787-05	COIL		R38			RK73GB2A000J	CHIP R 0.0 J 1/10W	
L25			L41-5675-33	SMALL FIXED INDUCTOR (0.056UH)		R39			RK73GB2A560J	CHIP R 56 J 1/10W	
L26			L41-4775-33	SMALL FIXED INDUCTOR (0.047UH)		R40			RK73GB2A270J	CHIP R 27 J 1/10W	
L27			L41-3995-33	SMALL FIXED INDUCTOR (3.9UH)		R41			RK73GB2A222J	CHIP R 2.2K J 1/10W	
L28			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R42-45			RK73GB2A223J	CHIP R 22K J 1/10W	
L29-31			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)		R46			RK73GB2A222J	CHIP R 2.2K J 1/10W	
L32			L40-1085-45	SMALL FIXED INDUCTOR (0.10UH)		R47			RK73GB2A153J	CHIP R 15K J 1/10W	
L33			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R48			RK73GB2A473J	CHIP R 47K J 1/10W	
L34-38			L92-0140-05	CHIP FERRITE		R49			RK73GB2A221J	CHIP R 220 J 1/10W	
L39			L92-0158-05	CHIP FERRITE		R50			RK73GB2A153J	CHIP R 15K J 1/10W	
L41			L40-1085-92	SMALL FIXED INDUCTOR (100NH)		R51			RK73GB2A000J	CHIP R 0.0 J 1/10W	
L43			L92-0140-05	CHIP FERRITE		R52			RK73GB2A223J	CHIP R 22K J 1/10W	
L600-608			L92-0140-05	CHIP FERRITE		R53			RK73GB2A682J	CHIP R 6.8K J 1/10W	
L611-613			L92-0140-05	CHIP FERRITE		R54			RK73GB2A102J	CHIP R 1.0K J 1/10W	
						R55			RK73GB2A223J	CHIP R 22K J 1/10W	



## PARTS LIST

TX-RX UNIT (X57-695X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R56			RK73GB2A682J	CHIP R 6.8K J 1/10W		R197			RK73GB2A182J	CHIP R 1.8K J 1/10W	
R57			RK73GB2A332J	CHIP R 3.3K J 1/10W		R198			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R58			RK73GB2A153J	CHIP R 15K J 1/10W		R200,201			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R60			RK73GB2A103J	CHIP R 10K J 1/10W		R600			RK73GB2A473J	CHIP R 47K J 1/10W	
R61			RK73GB2A274J	CHIP R 270K J 1/10W		R601			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R62			RK73GB2A222J	CHIP R 2.2K J 1/10W		R602			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R63			RK73GB2A183J	CHIP R 18K J 1/10W		R603			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R65			RK73GB2A472J	CHIP R 4.7K J 1/10W		R604			RK73GB2A333J	CHIP R 33K J 1/10W	
R66			RK73GB2A334J	CHIP R 330K J 1/10W		R605			RK73GB2A104J	CHIP R 100K J 1/10W	
R67			RK73GB2A560J	CHIP R 56 J 1/10W		R606			RK73GB2A473J	CHIP R 47K J 1/10W	
R68,69			RK73GB2A332J	CHIP R 3.3K J 1/10W		R607-613			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R70			RK73GB2A102J	CHIP R 1.0K J 1/10W		R614			RK73GB2A473J	CHIP R 47K J 1/10W	
R71			RK73GB2A823J	CHIP R 82K J 1/10W		R615			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R72			RK73GB2A334J	CHIP R 330K J 1/10W		R616			RK73GB2A473J	CHIP R 47K J 1/10W	
R73			RK73GB2A474J	CHIP R 470K J 1/10W		R618			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R74,75			RK73GB2A220J	CHIP R 22 J 1/10W		R619			RK73GB2A473J	CHIP R 47K J 1/10W	
R76			RK73GB2A104J	CHIP R 100K J 1/10W		R620-622			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R77,78			RK73GB2A473J	CHIP R 47K J 1/10W		R623,624			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R79			RK73GB2A104J	CHIP R 100K J 1/10W		R625-627			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R82			RK73GB2A474J	CHIP R 470K J 1/10W		R629			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R83			RK73GB2A000J	CHIP R 0.0 J 1/10W		R630,631			RK73GB2A473J	CHIP R 47K J 1/10W	
R87,88			RK73GB2A102J	CHIP R 1.0K J 1/10W		R633,634			RK73GB2A473J	CHIP R 47K J 1/10W	
R90			RK73GB2A000J	CHIP R 0.0 J 1/10W		R635			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R91			RK73GB2A472J	CHIP R 4.7K J 1/10W		R637			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R92			RK73GB2A182J	CHIP R 1.8K J 1/10W		R638			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R93			RK73GB2A101J	CHIP R 100 J 1/10W		R639			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R94			RK73GB2A470J	CHIP R 47 J 1/10W		R640			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R95			RK73GB2A472J	CHIP R 4.7K J 1/10W		R641			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R96			RK73GB2A182J	CHIP R 1.8K J 1/10W		R642			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R97			RK73GB2A472J	CHIP R 4.7K J 1/10W		R643			RK73GB2A473J	CHIP R 47K J 1/10W	
R98			RK73GB2A182J	CHIP R 1.8K J 1/10W		R644			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R99			RK73GB2A101J	CHIP R 100 J 1/10W		R645,646			RK73GB2A473J	CHIP R 47K J 1/10W	
R100			RK73GB2A220J	CHIP R 22 J 1/10W		R647,648			RK73GB2A101J	CHIP R 100 J 1/10W	
R104			RK73FB2B000J	CHIP R 0.0 J 1/8W		R649-651			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R106			RK73GB2A000J	CHIP R 0.0 J 1/10W		R652			RK73GB2A101J	CHIP R 100 J 1/10W	
R109			RK73GB2A101J	CHIP R 100 J 1/10W		R653,654			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R110			RK73GB2A821J	CHIP R 820 J 1/10W		R655			RK73GB2A473J	CHIP R 47K J 1/10W	
R111			RK73GB2A5R6J	CHIP R 5.6 J 1/10W		R656			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R112			RK73GB2A821J	CHIP R 820 J 1/10W		R657-661			RK73GB2A473J	CHIP R 47K J 1/10W	
R120,121			RK73GB2A152J	CHIP R 1.5K J 1/10W		R662			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R122,123			RK73GB2A100J	CHIP R 10 J 1/10W		R663-667			RK73GB2A473J	CHIP R 47K J 1/10W	
R124,125			RK73GB2A152J	CHIP R 1.5K J 1/10W		R668			RK73GB2A183J	CHIP R 18K J 1/10W	
R126,127			RK73GB2A100J	CHIP R 10 J 1/10W		R669-671			RK73GB2A223J	CHIP R 22K J 1/10W	
R128			RK73GB2A472J	CHIP R 4.7K J 1/10W		R672			RK73GB2A104J	CHIP R 100K J 1/10W	
R129,130			RK73GB2A473J	CHIP R 47K J 1/10W		R673			RK73GB2A224J	CHIP R 220K J 1/10W	
R137,138			RK73GB2A102J	CHIP R 1.0K J 1/10W		R674			RK73GB2A823J	CHIP R 82K J 1/10W	
R139-142			RK73GB2A000J	CHIP R 0.0 J 1/10W		R675			RK73GB2A104J	CHIP R 100K J 1/10W	
R143			RK73GB2A102J	CHIP R 1.0K J 1/10W		R676			RK73GB2A823J	CHIP R 82K J 1/10W	
R144			RK73GB2A223J	CHIP R 22K J 1/10W		R678			RK73GB2A104J	CHIP R 100K J 1/10W	
R148			RK73GB2A223J	CHIP R 22K J 1/10W		R679,680			RK73GB2A223J	CHIP R 22K J 1/10W	
R150			RK73GB2A180J	CHIP R 18 J 1/10W		R681			RK73GB2A183J	CHIP R 18K J 1/10W	
R151-158			RK73GB2A102J	CHIP R 1.0K J 1/10W		R682			RK73GB2A153J	CHIP R 15K J 1/10W	
R159			RK73GB2A221J	CHIP R 220 J 1/10W		R683			RK73GB2A124J	CHIP R 120K J 1/10W	
R160			RK73GB2A271J	CHIP R 270 J 1/10W		R684			RK73GB2A473J	CHIP R 47K J 1/10W	
R161,162			RK73GB2A471J	CHIP R 470 J 1/10W		R685,686			RK73GB2A104J	CHIP R 100K J 1/10W	
R163,164			RK73GB2A271J	CHIP R 270 J 1/10W		R687			RK73GB2A223J	CHIP R 22K J 1/10W	
R165			RK73GB2A471J	CHIP R 470 J 1/10W		R688-690			RK73GB2A473J	CHIP R 47K J 1/10W	
R166			RK73GB2A223J	CHIP R 22K J 1/10W		R691-693			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R176			RK73GB2A473J	CHIP R 47K J 1/10W		R694,695			RK73GB2A101J	CHIP R 100 J 1/10W	
R196			RK73GB2A392J	CHIP R 3.9K J 1/10W		R696			RK73GB2A103J	CHIP R 10K J 1/10W	

## PARTS LIST

### TX-RX UNIT (X57-695X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R697			RK73GB2A101J	CHIP R 100 J 1/10W		R782			RK73GB2A473J	CHIP R 47K J 1/10W	
R698			RK73GB2A103J	CHIP R 10K J 1/10W		R783			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R699			RK73GB2A000J	CHIP R 0.0 J 1/10W		R785			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R700			RK73GB2A101J	CHIP R 100 J 1/10W		R786			RK73GB2A473J	CHIP R 47K J 1/10W	
R701			RK73GB2A000J	CHIP R 0.0 J 1/10W		R787			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R702			RK73GB2A473J	CHIP R 47K J 1/10W		R789			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R703			RK73GB2A000J	CHIP R 0.0 J 1/10W		R790			RK73GB2A473J	CHIP R 47K J 1/10W	
R704,705			RK73GB2A473J	CHIP R 47K J 1/10W		R791			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R707-709			RK73GB2A223J	CHIP R 22K J 1/10W		R793			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R710			RK73GB2A473J	CHIP R 47K J 1/10W		R794			RK73GB2A473J	CHIP R 47K J 1/10W	
R712			RK73GB2A473J	CHIP R 47K J 1/10W		R795			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R713			RK73GB2A273J	CHIP R 27K J 1/10W		R798			RK73GB2A473J	CHIP R 47K J 1/10W	
R714			RK73GB2A223J	CHIP R 22K J 1/10W		R799			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R715			RK73GB2A103J	CHIP R 10K J 1/10W		R802			RK73FB2B2R2J	CHIP R 2.2 J 1/8W	
R717,718			RK73GB2A473J	CHIP R 47K J 1/10W		R803			RK73GB2A473J	CHIP R 47K J 1/10W	
R719			RK73GB2A154J	CHIP R 150K J 1/10W		R804			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R720			RK73GB2A473J	CHIP R 47K J 1/10W		R805			RK73GB2A473J	CHIP R 47K J 1/10W	
R721			RK73GB2A223J	CHIP R 22K J 1/10W		R806			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R722			RK73GB2A334J	CHIP R 330K J 1/10W		R807			RK73GB2A473J	CHIP R 47K J 1/10W	
R723,724			RK73GB2A000J	CHIP R 0.0 J 1/10W		R808			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R726			RK73GB2A473J	CHIP R 47K J 1/10W		R809			RK73GB2A473J	CHIP R 47K J 1/10W	
R727			RK73GB2A000J	CHIP R 0.0 J 1/10W		R810			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R728,729			RK73GB2A223J	CHIP R 22K J 1/10W		R811			RK73GB2A473J	CHIP R 47K J 1/10W	
R730			RK73GB2A101J	CHIP R 100 J 1/10W		R812			RK73GB2A223J	CHIP R 22K J 1/10W	
R731			RK73GB2A472J	CHIP R 4.7K J 1/10W		R813,814			RK73GB2A473J	CHIP R 47K J 1/10W	
R732			RK73GB2A473J	CHIP R 47K J 1/10W		R815			RK73GB2A104J	CHIP R 100K J 1/10W	
R733			RK73GB2A000J	CHIP R 0.0 J 1/10W		R817			RK73GB2A101J	CHIP R 100 J 1/10W	
R734			RK73GB2A473J	CHIP R 47K J 1/10W		R818			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R735			RK73GB2A333J	CHIP R 33K J 1/10W		R819-822			RK73GB2A103J	CHIP R 10K J 1/10W	
R736,737			RK73GB2A473J	CHIP R 47K J 1/10W		R823			RK73GB2A474J	CHIP R 470K J 1/10W	
R738			RK73GB2A274J	CHIP R 270K J 1/10W		R824			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R739			RK73GB2A103J	CHIP R 10K J 1/10W		R825,826			RK73GB2A824J	CHIP R 820K J 1/10W	
R740			RK73GB2A104J	CHIP R 100K J 1/10W		R827			RK73GB2A822J	CHIP R 8.2K J 1/10W	
R741			RK73GB2A154J	CHIP R 150K J 1/10W		R828			RK73GB2A273J	CHIP R 27K J 1/10W	
R742			RK73FB2B000J	CHIP R 0.0 J 1/8W		R829			RK73GB2A224J	CHIP R 220K J 1/10W	
R743			RK73GB2A473J	CHIP R 47K J 1/10W		R830			RK73GB2A563J	CHIP R 56K J 1/10W	
R744			RK73GB2A393J	CHIP R 39K J 1/10W		R831			RK73GB2A154J	CHIP R 150K J 1/10W	
R745			RK73GB2A473J	CHIP R 47K J 1/10W		R832			RK73GB2A822J	CHIP R 8.2K J 1/10W	
R747			RK73GB2A103J	CHIP R 10K J 1/10W		R833			RK73GB2A223J	CHIP R 22K J 1/10W	
R749-752			RK73GB2A000J	CHIP R 0.0 J 1/10W		R834			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R753,754			RK73GB2A473J	CHIP R 47K J 1/10W		R836			RK73GB2A473J	CHIP R 47K J 1/10W	
R758			RK73GB2A103J	CHIP R 10K J 1/10W		R837			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R760			RK73GB2A122J	CHIP R 1.2K J 1/10W		R839,840			RK73GB2A561J	CHIP R 560 J 1/10W	
R762			RK73GB2A472J	CHIP R 4.7K J 1/10W		R841,842			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R763			RK73GB2A103J	CHIP R 10K J 1/10W		R843			RK73GB2A274J	CHIP R 270K J 1/10W	
R764,765			RK73GB2A102J	CHIP R 1.0K J 1/10W		R844			RK73GB2A334J	CHIP R 330K J 1/10W	
R766			RK73GB2A122J	CHIP R 1.2K J 1/10W		K1			S76-0401-05	RELAY	
R767			RK73GB2A473J	CHIP R 47K J 1/10W		D1-4			DAN235K	DIODE	
R768			RK73GB2A122J	CHIP R 1.2K J 1/10W		D5			MA3J742	DIODE	
R771			RK73GB2A122J	CHIP R 1.2K J 1/10W		D7			1SS355	DIODE	
R772			RK73GB2A473J	CHIP R 47K J 1/10W		D8			DAN235K	DIODE	
R773			RK73GB2A102J	CHIP R 1.0K J 1/10W		D11			02DZ5.1F-Y	ZENER DIODE	
R774			RK73GB2A105J	CHIP R 1.0M J 1/10W		D12			02DZ18F-X,Y	ZENER DIODE	
R775			RK73GB2A473J	CHIP R 47K J 1/10W		D13			MA3J742	DIODE	
R776			RK73GB2A102J	CHIP R 1.0K J 1/10W		D600			DA204U	DIODE	
R777			RK73GB2A473J	CHIP R 47K J 1/10W		D606-612			DA204U	DIODE	
R778			RK73GB2A102J	CHIP R 1.0K J 1/10W		D614-616			DA204U	DIODE	
R779			RK73GB2A473J	CHIP R 47K J 1/10W		D618-623			DA204U	DIODE	
R780			RK73GB2A102J	CHIP R 1.0K J 1/10W							
R781			RK73GB2A471J	CHIP R 470 J 1/10W							

## PARTS LIST

TX-RX UNIT (X57-695X-XX)  
RX VCO UNIT (X58-4942-70)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
D626		*	MINISMD190F	VARIATOR		Q27			DTC144EUA	DIGITAL TRANSISTOR	
D627,628			1SS355	DIODE		Q600			2SK1824-A	FET	
D629			DA204U	DIODE		Q601			DTC114EUA	DIGITAL TRANSISTOR	
IC1		*	NJM2904E-ZB	ANALOGUE IC		Q602			2SK1824-A	FET	
IC2		*	NJM4558E-ZB	ANALOGUE IC		Q603			DTC114EUA	DIGITAL TRANSISTOR	
IC3			NJM78L05UA-ZB	BI-POLAR IC		Q604			2SK1824-A	FET	
IC4		*	NJM7808FA-ZB	BI-POLAR IC		Q605			DTC114EUA	DIGITAL TRANSISTOR	
IC5			AN8009M	MOS-IC		Q606			DTC363EU	DIGITAL TRANSISTOR	
IC6		*	M62354GPDF0J	MOS-IC		Q607,608			DTC144EUA	DIGITAL TRANSISTOR	
IC7			BU4094BCF	MOS-IC		Q609			DTC114EUA	DIGITAL TRANSISTOR	
IC9			TK14489V-G	BI-POLAR IC		Q610			2SJ506-E(S)	FET	
IC10			TA7808FQ	ANALOGUE IC		Q611			DTC114EUA	DIGITAL TRANSISTOR	
IC11			NJM78L05UA-ZB	BI-POLAR IC		Q612			DTC144EUA	DIGITAL TRANSISTOR	
IC600			AT24C08A10SU18	ROM IC		Q613,614			DTD123TK	DIGITAL TRANSISTOR	
IC601		*	R3111H421C-F	MOS-IC		Q615			DTC144EUA	DIGITAL TRANSISTOR	
IC602			BU4094BCFV	MOS-IC		TH1			157-503-53006	THERMISTOR	
IC603			TC7LVX4245FSF	MOS-IC		TH700,701			B57331V2103J	THERMISTOR	
IC604			30622M6P177GPU	MICROPROCESSOR IC		A1			W02-1939-05	DBM	
IC605			BU4053BCF	MOS-IC		<b>RX VCO UNIT (X58-4942-70)</b>					
IC606			TC7LVX4245FSF	MOS-IC		C306			CK73GB1H103K	CHIP C	0.010UF K
IC607		*	NJM4558E-ZB	ANALOGUE IC		C307			CK73GB1H471K	CHIP C	470PF K
IC608			TA75S01F-F	MOS-IC		C311			CS77CA1V0R1M	CHIP TNTL	0.1UF 35WV
IC609			AT29C02090TU	ROM IC		C312			CC73GCH1H220J	CHIP C	22PF J
IC610			TA75S01F-F	MOS-IC		C313			CC73GCH1H1R5B	CHIP C	1.5PF B
IC611		*	NJM4558E-ZB	ANALOGUE IC		C315			CK73FB1H473K	CHIP C	0.047UF K
IC612			TC7S04FU-F	MOS-IC		C317			CC73GCH1H220J	CHIP C	22PF J
IC613			TC74VHC4040FT	MOS-IC		C318			CS77AA1A6R8M	CHIP TNTL	6.8UF 10WV
IC614			AK4550VTP	MOS-IC		C319			CK73GB1H471K	CHIP C	470PF K
IC615			M62364FP-F	MOS-IC		C320			CS77AA1A6R8M	CHIP TNTL	6.8UF 10WV
IC616,617		*	NJM4558E-ZB	ANALOGUE IC		C321			CC73GCH1H2R5B	CHIP C	2.5PF B
IC618			320VC5402PGE	MICROPROCESSOR IC		C322			CK73GB1H471K	CHIP C	470PF K
IC619			TC75W51FUF	MOS-IC		C323			CK73FB1E224K	CHIP C	0.22UF K
IC620		*	ADM202EARNZ	MOS-IC		C324			CS77CA1ER47M	CHIP TNTL	0.47UF 25WV
IC621		*	TC7S00FU-F	MOS-IC		C325			CC73GCH1H050C	CHIP C	5.0PF C
IC622			TC7S66FUF	MOS-IC		C329			CK73GB1H471K	CHIP C	470PF K
IC623			BU4094BCFV	MOS-IC		C333			CK73GB1E104K	CHIP C	0.10UF K
IC624			XC62FP1802PN	MOS-IC		C354			CK73GB1H102K	CHIP C	1000PF K
IC625,626			XC62FP3302PN	MOS-IC		C355			CC73GCH1H390J	CHIP C	39PF J
IC627,628			TA78L05FF	MOS-IC		C356			CC73GCH1H330J	CHIP C	33PF J
IC629	3B		LA4422-E	BI-POLAR IC		C357			CK73GB1H102K	CHIP C	1000PF K
IC630			TA78L05FF	MOS-IC		C358			CC73GCH1H040B	CHIP C	4.0PF B
IC631,632			TA75W01FUF	MOS-IC		C359			CC73GCH1H080B	CHIP C	8.0PF B
Q1,2			2SC3357-A	TRANSISTOR		C360,361			CK73FB1C474K	CHIP C	0.47UF K
Q3			2SC3356-A(R24)	TRANSISTOR		C362			CC73GCH1H560J	CHIP C	56PF J
Q4			DTC144EUA	DIGITAL TRANSISTOR		C363			CC73GCH1H470J	CHIP C	47PF J
Q5			DTA144EUA	DIGITAL TRANSISTOR		C364,365			CK73GB1H102K	CHIP C	1000PF K
Q6			DTC144EUA	DIGITAL TRANSISTOR		C366			CC73GCH1H180G	CHIP C	18PF G
Q7			2SC4617(S)	TRANSISTOR		C367			CC73GCH1H150G	CHIP C	15PF G
Q8		*	2SC3120-F	TRANSISTOR		C368			CC73GCH1H180G	CHIP C	18PF G
Q9			2SC3357-A	TRANSISTOR		C369			CC73GCH1H150G	CHIP C	15PF G
Q10			2SA1586(Y,GR)F	TRANSISTOR		C370			CC73GCH1H180G	CHIP C	18PF G
Q11		*	2SC3120-F	TRANSISTOR		C371			CC73GCH1H150G	CHIP C	15PF G
Q12-15			2SC4116(GR)F	TRANSISTOR		C372,373			CK73GB1H102K	CHIP C	1000PF K
Q16			2SB1132(Q,R)	TRANSISTOR		C374,375			CC73GCH1H010B	CHIP C	1.0PF B
Q17			DTC114EUA	DIGITAL TRANSISTOR		C376-378			CK73GB1H102K	CHIP C	1000PF K
Q18			2SB1386(R)	TRANSISTOR		C379			CC73GCH1H100C	CHIP C	10PF C
Q19			DTC114EUA	DIGITAL TRANSISTOR							
Q23			DTC114EUA	DIGITAL TRANSISTOR							
Q24			DTD114EK	DIGITAL TRANSISTOR							
Q25,26			DTC114EUA	DIGITAL TRANSISTOR							

If a part reference number is listed in a shaded box, that part does not come with the PCB.

## PARTS LIST

RX VCO UNIT (X58-4942-70)

TX VCO UNIT (X58-4952-70)

Ref. No.	Address	New parts	Parts No.	Description	Destination
C383			CK73GB1H102K	CHIP C 1000PF K	
C385			CK73GB1H102K	CHIP C 1000PF K	
C387,388			CK73GB1H103K	CHIP C 0.010UF K	
C389			CK73GB1E104K	CHIP C 0.10UF K	
C391			CK73GB1H102K	CHIP C 1000PF K	
C392			CK73GB1H471K	CHIP C 470PF K	
C393,394			CC73GCH1H101J	CHIP C 100PF J	
TC350,351			C05-0396-05	TRIMMER CAPACITOR (8PF)	
CN300			E40-5699-05	PIN ASSY	
CN350			E40-5755-05	PIN ASSY	
CN351			E40-6098-05	PIN ASSY	
-			F10-2377-04	SHIELDING CASE	
-		*	F10-3078-04	SHIELDING CASE	
L302			L41-6878-14	SMALL FIXED INDUCTOR (68NH)	
L303			L41-3978-14	SMALL FIXED INDUCTOR (39NH)	
L307			L92-0140-05	CHIP FERRITE	
L350-355			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
L356,357			L34-4612-05	AIR-CORE COIL	
L358-361			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
L362			L41-8275-33	SMALL FIXED INDUCTOR (0.082UH)	
L363,364			L41-6868-14	SMALL FIXED INDUCTOR (6.8NH)	
R302-304			RK73GB2A101J	CHIP R 100 J 1/10W	
R308			RK73GB2A560J	CHIP R 56 J 1/10W	
R309			RK73GB2A221J	CHIP R 220 J 1/10W	
R312			RK73GB2A221J	CHIP R 220 J 1/10W	
R313			RK73GB2A681J	CHIP R 680 J 1/10W	
R314			RK73GB2A474J	CHIP R 470K J 1/10W	
R315			RK73GB2A331J	CHIP R 330 J 1/10W	
R316			RK73FB2B152J	CHIP R 1.5K J 1/8W	
R317,318			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R319			RK73GB2A470J	CHIP R 47 J 1/10W	
R320			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R321			RK73GB2A103J	CHIP R 10K J 1/10W	
R322			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R323			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R350-353			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R354,355			RK73GB2A330J	CHIP R 33 J 1/10W	
R356,357			RK73GB2A271J	CHIP R 270 J 1/10W	
R358,359			RK73GB2A470J	CHIP R 47 J 1/10W	
R360-363			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R364			RK73GB2A103J	CHIP R 10K J 1/10W	
R365			RK73GB2A473J	CHIP R 47K J 1/10W	
R366			RK73GB2A103J	CHIP R 10K J 1/10W	
R367			RK73GB2A221J	CHIP R 220 J 1/10W	
R368			RK73GB2A330J	CHIP R 33 J 1/10W	
R380			RK73GB2A101J	CHIP R 100 J 1/10W	
R381			RK73GB2A221J	CHIP R 220 J 1/10W	
R382			RK73GB2A220J	CHIP R 22 J 1/10W	
R384			RK73GB2A221J	CHIP R 220 J 1/10W	
R385			RK73GB2A101J	CHIP R 100 J 1/10W	
R386			RK73GB2A220J	CHIP R 22 J 1/10W	
R387			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R388			RK73GB2A333J	CHIP R 33K J 1/10W	
R389			RK73GB2A473J	CHIP R 47K J 1/10W	
R390			RK73GB2A103J	CHIP R 10K J 1/10W	
R391-393			RK73GB2A473J	CHIP R 47K J 1/10W	
R394			RK73GB2A471J	CHIP R 470 J 1/10W	

Ref. No.	Address	New parts	Parts No.	Description	Destination
D300			1SS355	DIODE	
D350-353			1SV282-F	VARIABLE CAPACITANCE DIODE	
IC301			LMX2352TMX/NP	ANALOGUE IC	
Q300,301			2SC4116(GR)F	TRANSISTOR	
Q302			2SC5108(Y)F	TRANSISTOR	
Q304			2SA1832(GR)F	TRANSISTOR	
Q305			DTC144EUA	DIGITAL TRANSISTOR	
Q306,307			2SK1824-A	FET	
Q350,351			2SK508NV(K52)	FET	
Q352,353			2SC4116(Y)F	TRANSISTOR	
Q354			DTC114EUA	DIGITAL TRANSISTOR	
Q355			2SC4215-F(Y)	TRANSISTOR	

TX VCO UNIT (X58-4952-70)					
Ref. No.	Address	New parts	Parts No.	Description	Destination
C306			CK73GB1H103K	CHIP C 0.010UF K	
C307			CK73GB1H471K	CHIP C 470PF K	
C311			CS77CA1V0R1M	CHIP TNTL 0.1UF 35WV	
C312			CC73GCH1H390J	CHIP C 39PF J	
C313			CC73GCH1H3R5B	CHIP C 3.5PF B	
C315			CK73FB1H473K	CHIP C 0.047UF K	
C317			CC73GCH1H390J	CHIP C 39PF J	
C318			CS77AA1A6R8M	CHIP TNTL 6.8UF 10WV	
C319			CK73GB1H471K	CHIP C 470PF K	
C320			CS77AA1A6R8M	CHIP TNTL 6.8UF 10WV	
C321			CC73GCH1H030B	CHIP C 3.0PF B	
C322			CK73GB1H471K	CHIP C 470PF K	
C323			CK73FB1E224K	CHIP C 0.22UF K	
C324			CS77CA1ER47M	CHIP TNTL 0.47UF 25WV	
C325			CC73GCH1H050C	CHIP C 5.0PF C	
C329			CK73GB1H471K	CHIP C 470PF K	
C333			CK73GB1E104K	CHIP C 0.10UF K	
C354			CK73GB1H102K	CHIP C 1000PF K	
C355			CC73GCH1H180G	CHIP C 18PF G	
C356			CC73GCH1H270G	CHIP C 27PF G	
C357			CK73GB1H102K	CHIP C 1000PF K	
C359			CC73GCH1H020B	CHIP C 2.0PF B	
C360,361			CK73FB1C474K	CHIP C 0.47UF K	
C362			CC73GCH1H150G	CHIP C 15PF G	
C363			CC73GCH1H080B	CHIP C 8.0PF B	
C364,365			CK73GB1H102K	CHIP C 1000PF K	
C366			CC73GCH1H270G	CHIP C 27PF G	
C367			CC73GCH1H180G	CHIP C 18PF G	
C368			CC73GCH1H150G	CHIP C 15PF G	
C369			CC73GCH1H090B	CHIP C 9.0PF B	
C370			CC73GCH1H150G	CHIP C 15PF G	
C371			CC73GCH1H090B	CHIP C 9.0PF B	
C372,373			CK73GB1H102K	CHIP C 1000PF K	
C374,375			CC73GCH1H010B	CHIP C 1.0PF B	
C376-378			CK73GB1H102K	CHIP C 1000PF K	
C379			CC73GCH1H100C	CHIP C 10PF C	
C380,381			CC73GCH1HR75B	CHIP C 0.75PF B	
C382,383			CK73GB1H102K	CHIP C 1000PF K	
C385			CK73GB1H102K	CHIP C 1000PF K	
C387,388			CK73GB1H103K	CHIP C 0.010UF K	
C389			CK73GB1E104K	CHIP C 0.10UF K	
C391			CK73GB1H102K	CHIP C 1000PF K	
C392			CK73GB1H471K	CHIP C 470PF K	
C393,394			CC73GCH1H101J	CHIP C 100PF J	

## PARTS LIST

TX VCO UNIT (X58-4952-70)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
TC350,351			C05-0396-05	TRIMMER CAPACITOR (8PF)		D354,355			1SV214-F	VARIABLE CAPACITANCE DIODE	
CN300			E40-5699-05	PIN ASSY		IC301			LMX2352TMX/NP	ANALOGUE IC	
CN350			E40-5755-05	PIN ASSY		Q300,301			2SC4116(GR)F	TRANSISTOR	
CN351			E40-6098-05	PIN ASSY		Q302			2SC5108(Y)F	TRANSISTOR	
-			F10-2377-04	SHIELDING CASE		Q304			2SA1832(GR)F	TRANSISTOR	
-		*	F10-3078-04	SHIELDING CASE		Q305			DTC144EUA	DIGITAL TRANSISTOR	
L302			L41-6878-14	SMALL FIXED INDUCTOR (68NH)		Q306,307			2SK1824-A	FET	
L303			L41-5678-14	SMALL FIXED INDUCTOR (56NH)		Q350,351			2SK508NV(K52)	FET	
L307			L92-0140-05	CHIP FERRITE		Q352,353			2SC4116(Y)F	TRANSISTOR	
L350-355			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		Q354			DTC114EUA	DIGITAL TRANSISTOR	
L356,357			L34-4612-05	AIR-CORE COIL		Q355			2SC4215-F(Y)	TRANSISTOR	
L360,361			L41-1005-33	SMALL FIXED INDUCTOR (10UH)							
L362			L41-8275-33	SMALL FIXED INDUCTOR (0.082UH)							
L363,364			L41-6868-14	SMALL FIXED INDUCTOR (6.8NH)							
R302-304			RK73GB2A101J	CHIP R 100 J 1/10W							
R308			RK73GB2A560J	CHIP R 56 J 1/10W							
R309			RK73GB2A221J	CHIP R 220 J 1/10W							
R312			RK73GB2A221J	CHIP R 220 J 1/10W							
R313			RK73GB2A681J	CHIP R 680 J 1/10W							
R314			RK73GB2A474J	CHIP R 470K J 1/10W							
R315			RK73GB2A331J	CHIP R 330 J 1/10W							
R316			RK73FB2B152J	CHIP R 1.5K J 1/8W							
R317,318			RK73GB2A000J	CHIP R 0.0 J 1/10W							
R319			RK73GB2A470J	CHIP R 47 J 1/10W							
R320			RK73GB2A102J	CHIP R 1.0K J 1/10W							
R321			RK73GB2A103J	CHIP R 10K J 1/10W							
R322			RK73GB2A562J	CHIP R 5.6K J 1/10W							
R323			RK73GB2A102J	CHIP R 1.0K J 1/10W							
R350-353			RK73GB2A000J	CHIP R 0.0 J 1/10W							
R354,355			RK73GB2A330J	CHIP R 33 J 1/10W							
R356,357			RK73GB2A471J	CHIP R 470 J 1/10W							
R358,359			RK73GB2A470J	CHIP R 47 J 1/10W							
R360-363			RK73GB2A472J	CHIP R 4.7K J 1/10W							
R364			RK73GB2A103J	CHIP R 10K J 1/10W							
R365			RK73GB2A473J	CHIP R 47K J 1/10W							
R366			RK73GB2A103J	CHIP R 10K J 1/10W							
R367			RK73GB2A221J	CHIP R 220 J 1/10W							
R368			RK73GB2A330J	CHIP R 33 J 1/10W							
R370,371			RK73GB2A103J	CHIP R 10K J 1/10W							
R372			RK73GB2A223J	CHIP R 22K J 1/10W							
R373			RK73GB2A104J	CHIP R 100K J 1/10W							
R374			RK73GB2A223J	CHIP R 22K J 1/10W							
R375			RK73GB2A104J	CHIP R 100K J 1/10W							
R380			RK73GB2A101J	CHIP R 100 J 1/10W							
R381			RK73GB2A221J	CHIP R 220 J 1/10W							
R382			RK73GB2A220J	CHIP R 22 J 1/10W							
R384			RK73GB2A221J	CHIP R 220 J 1/10W							
R385			RK73GB2A101J	CHIP R 100 J 1/10W							
R386			RK73GB2A220J	CHIP R 22 J 1/10W							
R387			RK73FB2B000J	CHIP R 0.0 J 1/8W							
R388			RK73GB2A333J	CHIP R 33K J 1/10W							
R389			RK73GB2A473J	CHIP R 47K J 1/10W							
R390			RK73GB2A103J	CHIP R 10K J 1/10W							
R391-393			RK73GB2A473J	CHIP R 47K J 1/10W							
R394			RK73GB2A471J	CHIP R 470 J 1/10W							
D300			1SS355	DIODE							
D350-353			1SV282-F	VARIABLE CAPACITANCE DIODE							

# TKR-751

## EXPLODED VIEW

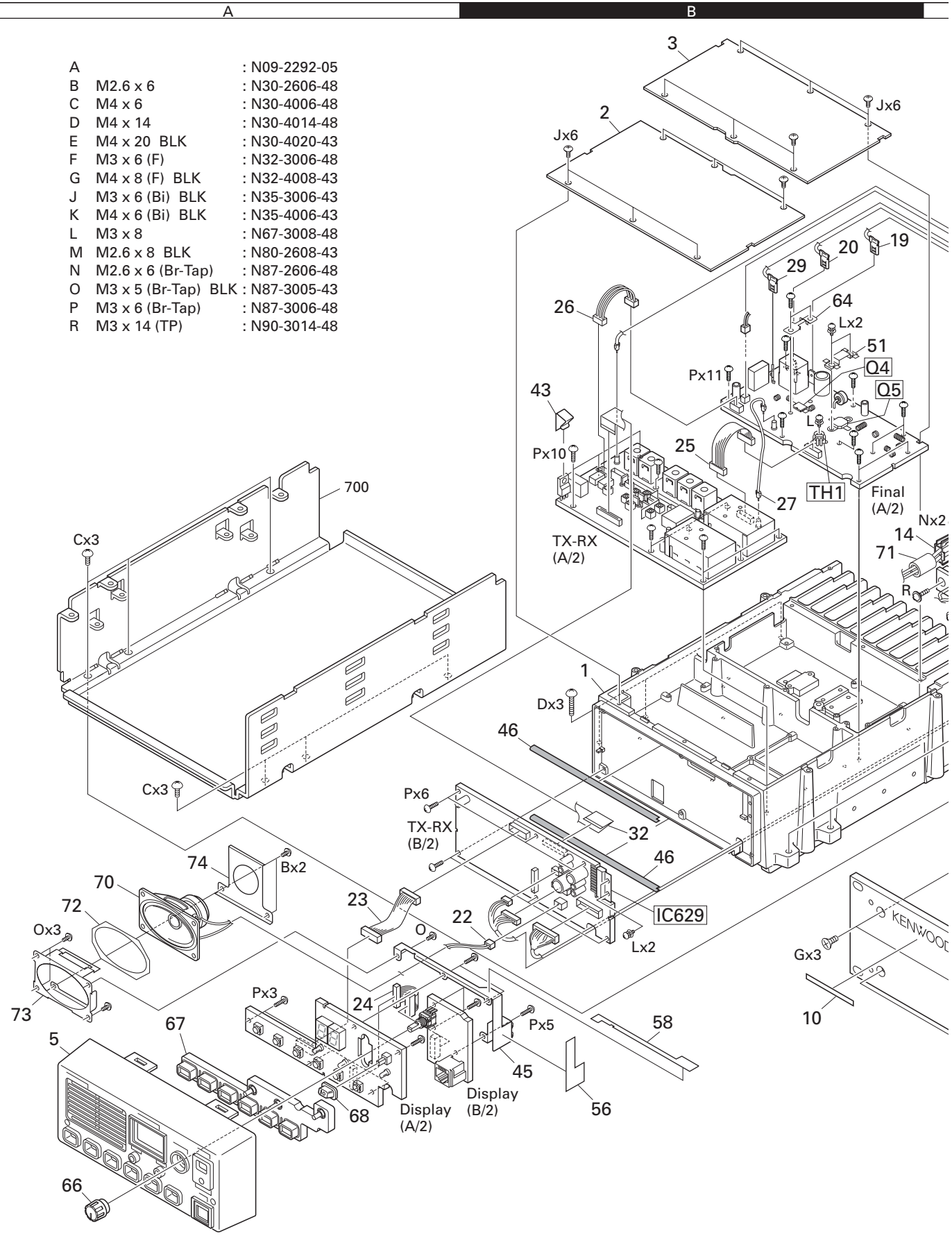


A	:	N09-2292-05
B	M2.6 x 6	: N30-2606-48
C	M4 x 6	: N30-4006-48
D	M4 x 14	: N30-4014-48
E	M4 x 20 BLK	: N30-4020-43
F	M3 x 6 (F)	: N32-3006-48
G	M4 x 8 (F) BLK	: N32-4008-43
J	M3 x 6 (Bi) BLK	: N35-3006-43
K	M4 x 6 (Bi) BLK	: N35-4006-43
L	M3 x 8	: N67-3008-48
M	M2.6 x 8 BLK	: N80-2608-43
N	M2.6 x 6 (Br-Tap)	: N87-2606-48
O	M3 x 5 (Br-Tap) BLK	: N87-3005-43
P	M3 x 6 (Br-Tap)	: N87-3006-48
R	M3 x 14 (TP)	: N90-3014-48

1

2

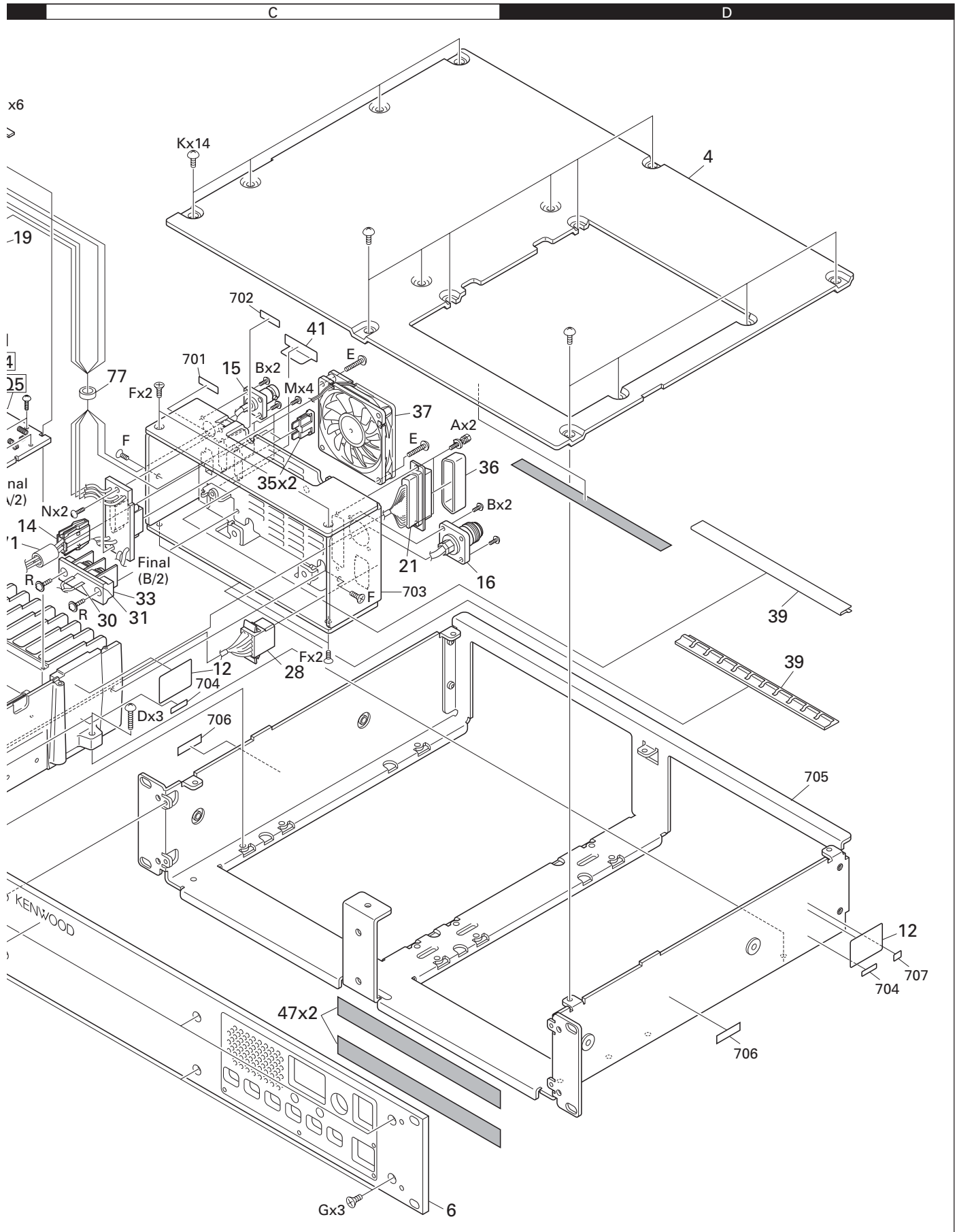
3



14 If a part reference number is listed in a box on the exploded view of the PCB, that part does not come with the PCB. These parts must be ordered separately.



## EXPLODED VIEW



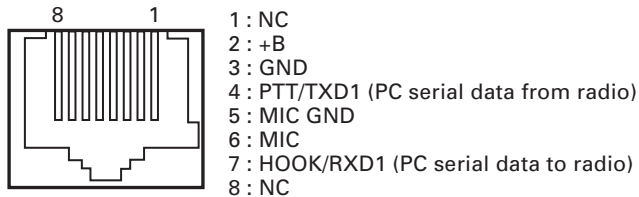
## ADJUSTMENT

### Test Equipment Required for Alignment

Test Equipment	Major Specifications	
1. Standard Signal Generator (SSG)	Frequency Range Modulation Output	136 to 174MHz Frequency modulation and external modulation 0.1μV to greater than 1mV
2. Power Meter	Input Impedance Operation Frequency Measurement Capability	50Ω 136 to 174MHz or more Vicinity of 30W
3. Deviation Meter	Frequency Range	136 to 174MHz
4. Digital Volt Meter (DVM)	Measuring Range Accuracy	1 to 20V DC High input impedance for minimum circuit loading
5. Oscilloscope		DC through 30MHz
6. High Sensitivity Frequency Counter	Frequency Range Frequency Stability	10Hz to 600MHz 0.2ppm or less
7. Ammeter		10A or more
8. AF Volt Meter (AF VTVM)	Frequency Range Voltage Range	50Hz to 10kHz 3mV to 3V
9. Audio Generator (AG)	Frequency Range Output	50Hz to 5kHz 0 to 1V
10. Distortion Meter	Capability Input Level	3% or less at 1kHz 50mV to 10Vrms
11. Voltmeter	Measuring Range Input Impedance	10 to 1.5V DC or less 50kΩ/V or greater
12. 4Ω Dummy Load		Approx. 4Ω, 5W

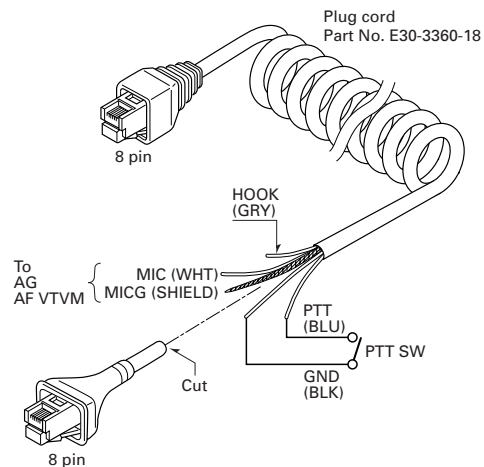
### The following parts are required for adjustment

- Test cable for local microphone



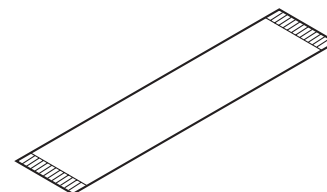
**MIC connector (Front panel view)**

- The following test cables are recommended.



**Test cable for microphone input**

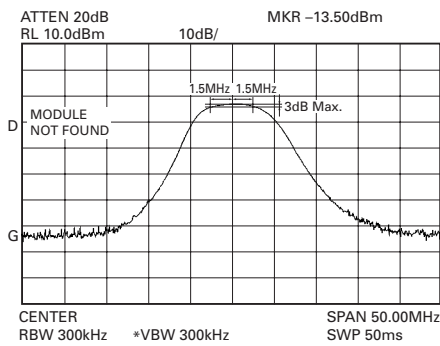
To connect the TX-RX unit A/2 (CN14) to the TX-RX unit B/2 (CN602) while in servicing, you can use the 36-pin flat cable, E37-0979-05, which is available from the KENWOOD parts center.



**Flat cable (36-pin) about 256mm**

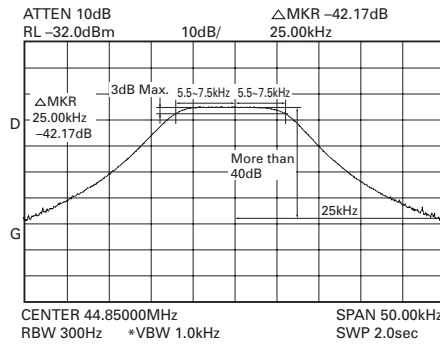


## ADJUSTMENT



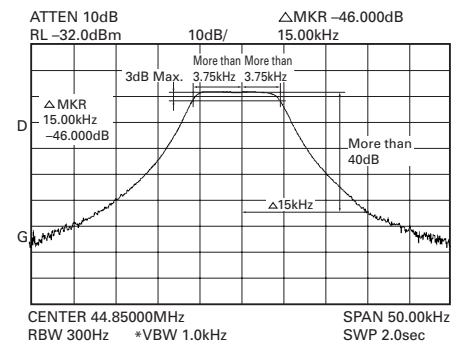
BPF center frequency (Factory-default)  
K,E : 160MHz

Fig. 1



MCF : Wide

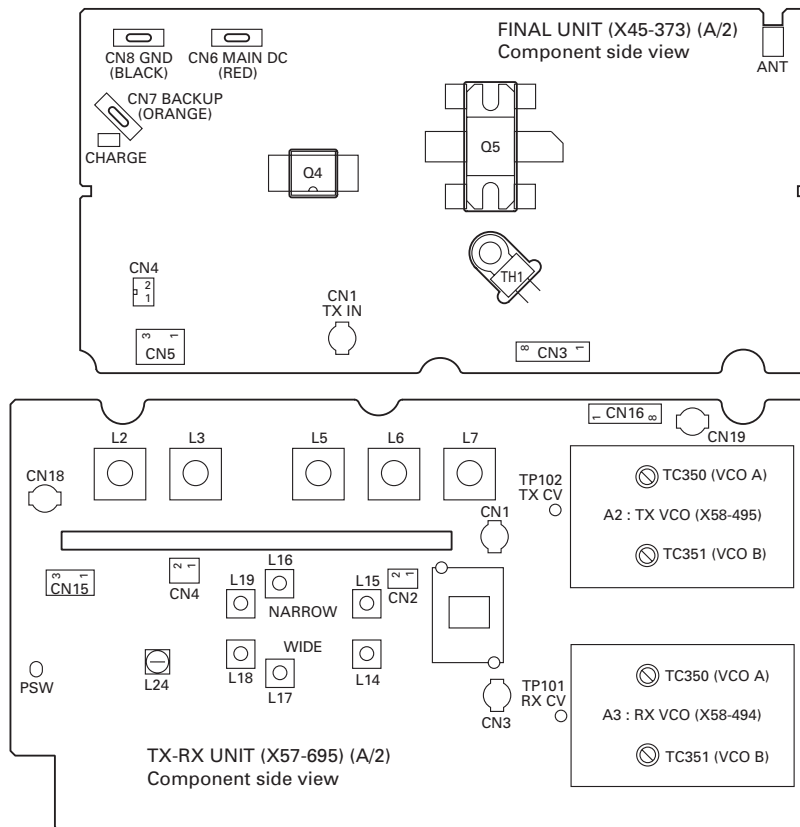
Fig. 2



MCF : Narrow

Fig. 3

### Adjustment Points



### Test Channel (Default)

No.	K,E	
	RX	TX
1	146.10	146.00
2	160.10	160.00
3	173.90	174.00
4	150.10	150.00
5	155.10	155.00
6	165.10	165.00
7	170.10	170.00
8	158.60	161.50
9	161.60	158.50
10	136.10	136.00
11	151.90	151.95
12	152.10	152.00

### Test Signaling

No.	Decode tone	Encode tone
1	None	None
2	None	100Hz square wave
3	QT 67.0Hz	QT 67.0Hz
4	QT 151.4Hz	QT 151.4Hz
5	QT 210.7Hz	QT 210.7Hz
6	QT 250.3Hz	QT 250.3Hz
7	DQT 023N	DQT D023N
8	DQT 754I	DQT D754I
9	None	CW ID Encode [ID=VVV]
10	None	Single Tone [1000Hz]
11	DTMF 159D	DTMF 159D
12	None	DTMF Tone 9
13	None	Courtesy Tone
14	None	Battery Warning Tone
15	None	Battery Operation Tone
16	5-Tone [12345] (CCIR)	5-Tone [12345] (CCIR)

# TKR-751

## ADJUSTMENT

### NOTE:

There are some important notices when replacing the PLL unit.

If you replaced either PLL unit from the old type to the new type.

1. You must also replace the other PLL unit to the new type. (The old PLL unit cannot be used together with the new PLL unit.)
2. Firmware version "C983" or later must be applied to the radio.

### Compatibility Chart

		Firmware version "C960" or earlier	Firmware version "C983" or later
Old type PLL unit (Not RoHS adaptation)	RX: X58-4780-10	OK	OK
	TX: X58-4790-10		
New type PLL unit (RoHS adaptation)	RX: X58-4942-70	NG	OK
	TX: X58-4952-70	PLL unlock condition	
If you used new PLL unit and old PLL unit together....		PLL unlock condition	

### Fine-Tuning the TKR-751

"ADJUSTMENT" items described in the Service Manual for the TKR-751 give the factory-default adjustment procedure covering all adjustment items.

However, it is not necessary to adjust all the items when adjusting the power, deviation, receiver sensitivity, etc at the frequency of the channel to be used by the TKR-751.

#### Adjustment procedure at the frequency of the channel to be used

1. Program a channel frequency using the FPU (KPG-91D).
2. From the FPU menu, select in the order of "EDIT", "Test Frequency" and "CH paste" to rewrite the test frequency from the factory-default to the one to be used for the channel.

Erase all channel frequencies rewritten through this operation and press the ENTER key to retrieve the factory-default test frequency.

Refer to the explanation given under HELP for the FPU (KPG-91D) for details.

3. Check whether the frequency rewritten under the "Test mode" of the FPU (KPG-91D) is correct, then select the item to be adjusted from the FPU (KPG-91D) menu and adjust the set value for the item to an optimum value with the "TEST" tag.

#### Note :

**After adjustment of the "Max. Deviation", be sure to check the "DQT balance".**

**The "5-tone" and "W4 kHz" adjustments are required only for the E market products.**

### Alignment

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. Setting	1) Connect the unit to a suitable DC power supply.							
2. Write test frequency	1) Turn the DC source switch on after connecting a PC and FPU cable to the radio. 2) Write the test and shipping frequency to the radio. 3) End of test frequency writing.							→ "E1" appears on LED display → Green (BUSY) LED lights up
3. Setting	1) Connect the unit to a suitable DC power supply. 2) Turn the power switch on after connecting a PC and FPU cable to the radio. 3) Start up the program for the adjustment.							
4. RX PLL lock voltage	1) RX VCO A high CH : 11	DVM	TX-RX (A/2)	RX-CV	RX VCO (A3)	TC350	1.50V	±0.1V
	2) RX VCO A low CH : 10						Check	8V or less
	3) RX VCO B high CH : 3				RX VCO (A3)	TC351	1.50V	±0.1V
	4) RX VCO B low CH : 12						Check	8V or less

## ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks		
		Test-equipment	Unit	Terminal	Unit	Parts	Method			
5. TX PLL lock voltage	1) TX VCO A high CH : 11	DVM	TX-RX (A/2)	TX-CV	TX VCO (A2)	TC350	1.50V	±0.1V		
							Check	8V or less		
	3) TX VCO B high CH : 3						TX VCO (A2)	TC351	1.50V	±0.1V
	4) TX VCO B low CH : 12								Check	8V or less
6. RX frequency	1) Connect the frequency counter to CN3, then measure the frequency CH : 2	f. counter		CN3			PC adj. Test CH+44.85MHz	50Hz or less		
<b>Note :</b> RX frequency means the local frequency of the RX VCO. So its frequency is wanted frequency minus the IF frequency. Adjustment item 7 and item 10 applies to old type PLL unit.										
7. RX frequency (tune)	1) High CH (Automatically)	f. counter	TX-RX (A/2)	CN3			PC adj. 218.8475MHz	50Hz or less		
	2) Low CH (Automatically)						PC adj. 180.8525MHz			
8. Setting	1) Remove 8 pin cable and the coaxial cable from CN16, and CN19 on TX-RX side.									
9. TX frequency	1) Connect the frequency counter to CN19, then measure the frequency CH : 2	f. counter	TX-RX (A/2)	CN19			PC adj.	50Hz or less		
10. TX frequency (tune)	1) High CH (Automatically)						PC adj. 173.9975MHz	50Hz or less		
	2) Low CH (Automatically)						PC adj. 136.0025MHz			
11. Setting	1) Insert 8 pin cable and the coaxial cable to CN16, and CN19 on TX-RX side.									
12. Maximum power limiting	1) Measure the RF power at TX ANT. High CH	Power meter	Rear	TX ANT	Final	VR1	Adjust the RF power to 26.5W.	±0.5W		
13. TX RF high power	1) Measure the RF power at TX ANT. Low CH 2) Center CH 3) High CH						PC adj. 25W (Factory-default)	±0.5W		
14. TX RF low power	1) Measure the power level at TX ANT. Low CH 2) Center CH 3) High CH						PC adj. 1W (Factory-default)	±0.05W		
15. BPF	1) Connect the TG to RX ANT, then connect CN1 to the spectrum analyzer input. Spectrum analyzer setting Span : 50MHz Scale : 10dB to 5dB div Tracking generator setting Output : -30dBm	Tracking generator	Rear	RX ANT	TX-RX (A/2)	L2 L3 L5 L6 L7	Center the frequency you are using, then adjust it to look like the wave Fig. 1. (Page 17)			
		Spectrum analyzer	TX-RX (A/2)	CN1						

## ADJUSTMENT

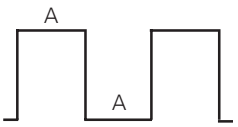
Item	Condition	Measurement			Adjustment			Specifications/Remarks		
		Test-equipment	Unit	Terminal	Unit	Parts	Method			
16. MCF (Wide)	1) Connect the TG to CN2, then connect CN4 to the spectrum analyzer input. CH : 2 (Wide) Spectrum analyzer setting Span : 50kHz to 25kHz Scale : 10dB to 2dB div Center freq' : 44.850MHz Tracking generator setting Output : -30dBm	Tracking generator	Rear	RX ANT	TX-RX (A/2)	L14 L17 L18	Adjust it to look like the wave Fig. 2. (Page 17)			
	(Narrow)	2) CH : 2 (Narrow)	Spectrum analyzer	TX-RX (A/2)					CN2 CN4	L15 L16 L19
17. Discriminator	1) Connect the SSG to RX ANT. CH : 2 (Wide) SSG output : -53dBm/501μV SSG MOD : 1kHz SSG DEV : 3kHz AF : 2V/4Ω	SSG	Rear	RX ANT		L24	Adjust the distortion to minimum.			
		AF VM Distortion meter		TEST/SPKR jack SPO (pin 12)						
18. Threshold squelch (Wide)	1) Connect SSG to RX ANT. CH : 2 (Wide) SSG output : 4dB below to 12dB SINAD level SSG MOD : 1kHz SSG DEV : 3kHz AF : 2V/4Ω	SSG	Rear	RX ANT			PC adj. Adjust to point of closing squelch			
	2) SSG : OFF						Check		Squelch must be closed.	
	(Wide 4kHz)						3) CH : 2 (Wide 4kHz) SSG output : 4dB below to 12dB SINAD level SSG MOD : 1kHz SSG DEV : 2.4kHz AF : 2V/4Ω		PC adj. Adjust to point of closing squelch	
	4) SSG : OFF						Check		Squelch must be closed.	
	(Narrow)						5) CH : 2 (Narrow) SSG output : 4dB below to 12dB SINAD level SSG MOD : 1kHz SSG DEV : 1.5kHz AF : 2V/4Ω		PC adj. Adjust to point of closing squelch	
	6) SSG : OFF						Check		Squelch must be closed.	
19. Tight squelch (Wide)	1) Connect SSG to RX ANT. CH : 2 (Wide) SSG output : 7dB over to 12dB SINAD level SSG MOD : 1kHz SSG DEV : 3kHz AF : 2V/4Ω						PC adj. Adjust to point of opening squelch			
	(Wide 4kHz)						2) CH : 2 (Wide 4kHz) SSG output : 7dB over to 12dB SINAD level SSG MOD : 1kHz SSG DEV : 2.4kHz AF : 2V/4Ω		PC adj. Adjust to point of opening squelch	
	(Narrow)						3) CH : 2 (Narrow) SSG output : 7dB over to 12dB SINAD level SSG MOD : 1kHz SSG DEV : 1.5kHz AF : 2V/4Ω		PC adj. Adjust to point of opening squelch	

## ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
20. RD outut level (Wide)	1) Connect SSG to RX ANT. CH : 2 (Wide) SSG output : -53dBm/501μV SSG MOD : 1kHz SSG DEV : 3.0kHz	SSG	Rear	RX ANT			PC adj. 80mV	±5mV
	(Wide 4kHz)	DVM		CONTROL I/O jack RD (pin 10) 4.7kΩ load				
	(Narrow)	2) CH : 2 (Wide 4kHz) SSG output : -53dBm/501μV SSG MOD : 1kHz SSG DEV : 2.4kHz						
21. RA outut level (Wide)	1) Connect SSG to RX ANT. CH : 2 (Wide) SSG output : -53dBm/501μV SSG MOD : 1kHz SSG DEV : 3.0kHz	SSG	Rear	RX ANT			PC adj. 400mV	±20mV
	(Wide 4kHz)	DVM		CONTROL I/O jack RA (pin 11) 4.7kΩ load				
	(Narrow)	2) CH : 2 (Wide 4kHz) SSG output : -53dBm/501μV SSG MOD : 1kHz SSG DEV : 2.4kHz						
22. Maximum deviation (Wide)	1) Connect AG to the MIC terminal. A-low CH (TX VCO A low) A-center CH (VCO A center) A-high CH (TX VCO A high) B-low CH (TX VCO B low) B-center CH (VCO B center) B-high CH (TX VCO B high) Deviation meter filter HPF : OFF, LPF : 15kHz De-emphasis : OFF AG : 1kHz/50mV (Terminal load) Transmission	MOD ANA or Deviation meter Oscilloscope	Rear	TX OUT			PC adj. 4.1kHz	±0.1kHz
	(Wide 4kHz)	AG AF VTVM	Front	MIC				
	(Narrow)	2) A-low CH (TX VCO A low) A-center CH (VCO A center) A-high CH (TX VCO A high) B-low CH (TX VCO B low) B-center CH (VCO B center) B-high CH (TX VCO B high) Transmission						
	3) A-low CH (TX VCO A low) A-center CH (VCO A center) A-high CH (TX VCO A high) B-low CH (TX VCO B low) B-center CH (VCO B center) B-high CH (TX VCO B high) Transmission					PC adj. 2.05kHz	±0.1kHz	

**Note :** After adjustment of the "Max. Deviation", be sure to check the "DOT balance".

## ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks	
		Test-equipment	Unit	Terminal	Unit	Parts	Method		
23. DQT balance (Wide)	1) Low CH (VCO-A center) High CH (VCO-B center) Deviation meter filter HPF : OFF, LPF : 3kHz De-emphasis : OFF Transmission	MOD ANA or Deviation meter Oscilloscope	Rear	TX OUT			PC adj. Make the de-modulated waves into square waves.	Oscilloscope DC range flat "A" part  	
	(Wide 4kHz)								2) Low CH (VCO-A center) High CH (VCO-B center) Transmission
	(Narrow)								3) Low CH (VCO-A center) High CH (VCO-B center) Transmission
24. QT deviation (Wide)	1) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Deviation meter filter HPF : OFF, LPF : 3kHz De-emphasis : OFF Detector : p-p/2 Transmission	MOD ANA or Deviation meter Oscilloscope	Rear	TX ANT			PC adj. 0.75kHz	±0.05kHz	
	(Wide 4kHz)								2) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission
	(Narrow)								3) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission
25. DQT deviation (Wide)	1) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Deviation meter filter HPF : OFF, LPF : 3kHz De-emphasis : OFF Detector : Peak hold Transmission						PC adj. 0.75kHz	±0.05kHz	
	(Wide 4kHz)								2) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission
	(Narrow)								3) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission
26. CW ID deviation (Wide)	1) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Deviation meter filter HPF : OFF, LPF : 15kHz De-emphasis : OFF Transmission						PC adj. 2kHz	±0.1kHz	
	(Wide 4kHz)								2) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission
	(Narrow)								3) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission

## ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks	
		Test-equipment	Unit	Terminal	Unit	Parts	Method		
27. Test tone deviation (Wide)	1) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Deviation meter filter HPF : OFF, LPF : 15kHz De-emphasis : OFF Transmission	MOD ANA or Deviation meter Oscilloscope	Rear	TX ANT			PC adj. 3kHz	±0.1kHz	
	(Wide 4kHz) 2) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission							PC adj. 2.4kHz	±0.1kHz
	(Narrow) 3) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission							PC adj. 1.5kHz	±0.05kHz
28. TA (TX audio input) deviation (Wide)	1) Insert AG output into the control I/O TA terminal (pin 9). VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Deviation meter filter HPF : OFF, LPF : 15kHz De-emphasis : OFF AG freq' : 1kHz (Sine wave) AG level : 280mV Transmission	MOD ANA or Deviation meter Oscilloscope  AG AF VTVM	Rear	TX ANT  CONTROL I/O jack TA (pin 9)			PC adj. 3.0kHz	±0.1kHz	
	(Wide 4kHz) 2) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission							PC adj. 2.4kHz	±0.1kHz
	(Narrow) 3) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission							PC adj. 1.5kHz	±0.05kHz
29. TD deviation (Wide)	1) Insert AG output into the control I/O TD terminal (pin 8). VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Deviation meter filter HPF : OFF, LPF : 3kHz De-emphasis : OFF AG freq' : 100Hz (Sine wave) AG level : 0.5Vp-p (177mVrms) Transmission	MOD ANA or Deviation meter Oscilloscope  AG AF VTVM	Rear	TX ANT  CONTROL I/O jack TD (pin 8)			PC adj. 0.75kHz	±0.1kHz	
	(Wide 4kHz) 2) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission							PC adj. 0.60kHz	±0.05kHz
	(Narrow) 3) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission							PC adj. 0.35kHz	±0.05kHz
30. DTMF deviation (Wide)	1) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Deviation meter filter HPF : OFF, LPF : 15kHz De-emphasis : OFF Transmission	MOD ANA or Deviation meter Oscilloscope	Rear	TX ANT			PC adj. 3.0kHz	±0.1kHz	
	(Wide 4kHz) 2) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission							PC adj. 2.4kHz	±0.1kHz
	(Narrow) 3) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission							PC adj. 1.5kHz	±0.05kHz

## ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
31. Courtesy tone deviation (Wide)	1) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Deviation meter filter HPF : OFF, LPF : 15kHz De-emphasis : OFF Transmission	MOD ANA or Deviation meter Oscilloscope	Rear	TX ANT			PC adj. 1.0kHz	±0.05kHz
(Wide 4kHz)	2) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission						PC adj. 0.8kHz	±0.05kHz
(Narrow)	3) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission						PC adj. 0.5kHz	±0.05kHz
32. Battery warning tone deviation (Wide)	1) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Deviation meter filter HPF : OFF, LPF : 15kHz De-emphasis : OFF Transmission						PC adj. 3.0kHz	±0.1kHz
(Wide 4kHz)	2) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission						PC adj. 2.4kHz	±0.1kHz
(Narrow)	3) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission						PC adj. 1.5kHz	±0.05kHz
33. Battery operation tone deviation (Wide)	1) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Deviation meter filter HPF : OFF, LPF : 15kHz De-emphasis : OFF Transmission						PC adj. 1.0kHz	±0.05kHz
(Wide 4kHz)	2) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission						PC adj. 0.8kHz	±0.05kHz
(Narrow)	3) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission						PC adj. 0.5kHz	±0.05kHz
34. 5-tone deviation (E type only) (Wide)	1) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Deviation meter filter HPF : OFF, LPF : 15kHz De-emphasis : OFF Transmission	PC adj. 3.0kHz	±0.1kHz					
(Wide 4kHz)	2) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission	PC adj. 2.4kHz	±0.1kHz					
(Narrow)	3) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission	PC adj. 1.5kHz	±0.05kHz					



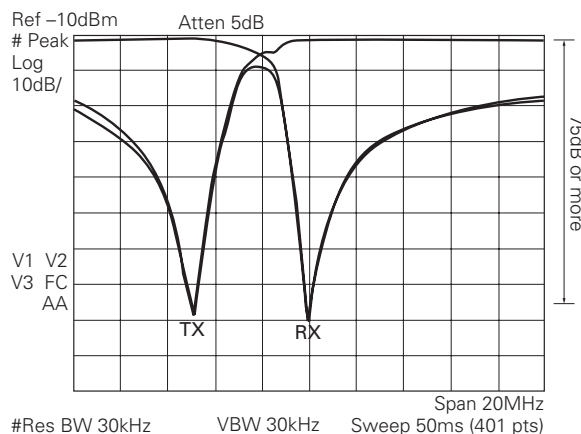
## ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
35. Repeat gain level (Wide)	1) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) SSG output : -53dBm SSG MOD : 1kHz SSG DEV : 1kHz Deviation meter filter HPF : OFF LPF : 15kHz De-emphasis : OFF Transmission	SSG  MOD ANA or Deviation meter Oscilloscope	Rear	RX ANT			PC adj. 1kHz	±0.1kHz
(Wide 4kHz)	2) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission			TX ANT				
(Narrow)	3) VCO-A CH (TX VCO A center) VCO-B CH (TX VCO B center) Transmission							
When "RF Power Down Detect" is programmed in the AUXO function, threshold of transmission output is set with the following nenu.								
36. Power down detect (High)	1) CH : 2 (High power)	Power meter	Rear	TX ANT			PC adj. 10.0W (Factory-default)	
(Low)	2) CH : 2 (Low power)						PC adj. 0.4W (Factory-default)	

### Confirmation and Alignment of Set-up to Prevent Receiver Desensitization

#### 1. Confirmation of Duplexer alignment

The duplexer allows the Repeater to simultaneously transmit and receive. To accomplish this, in the programmed receive frequency, the transmit frequency must be notched or suppressed by 75dB or more. Additionally, on the programmed transmit frequency, the receive frequency must be notched or suppressed by 75dB or more. The following figures are examples of Duplexer alignment using a spectrum analyzer.

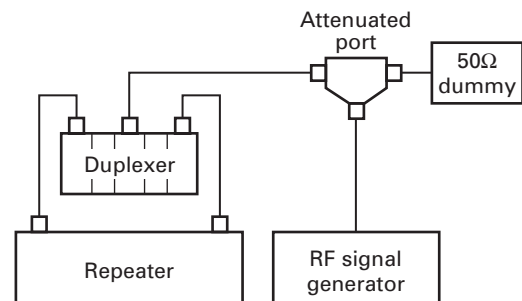


#### 2. Confirmation of Repeater Desensitization

The following figure is a Test set-up for Repeater Desensitization.

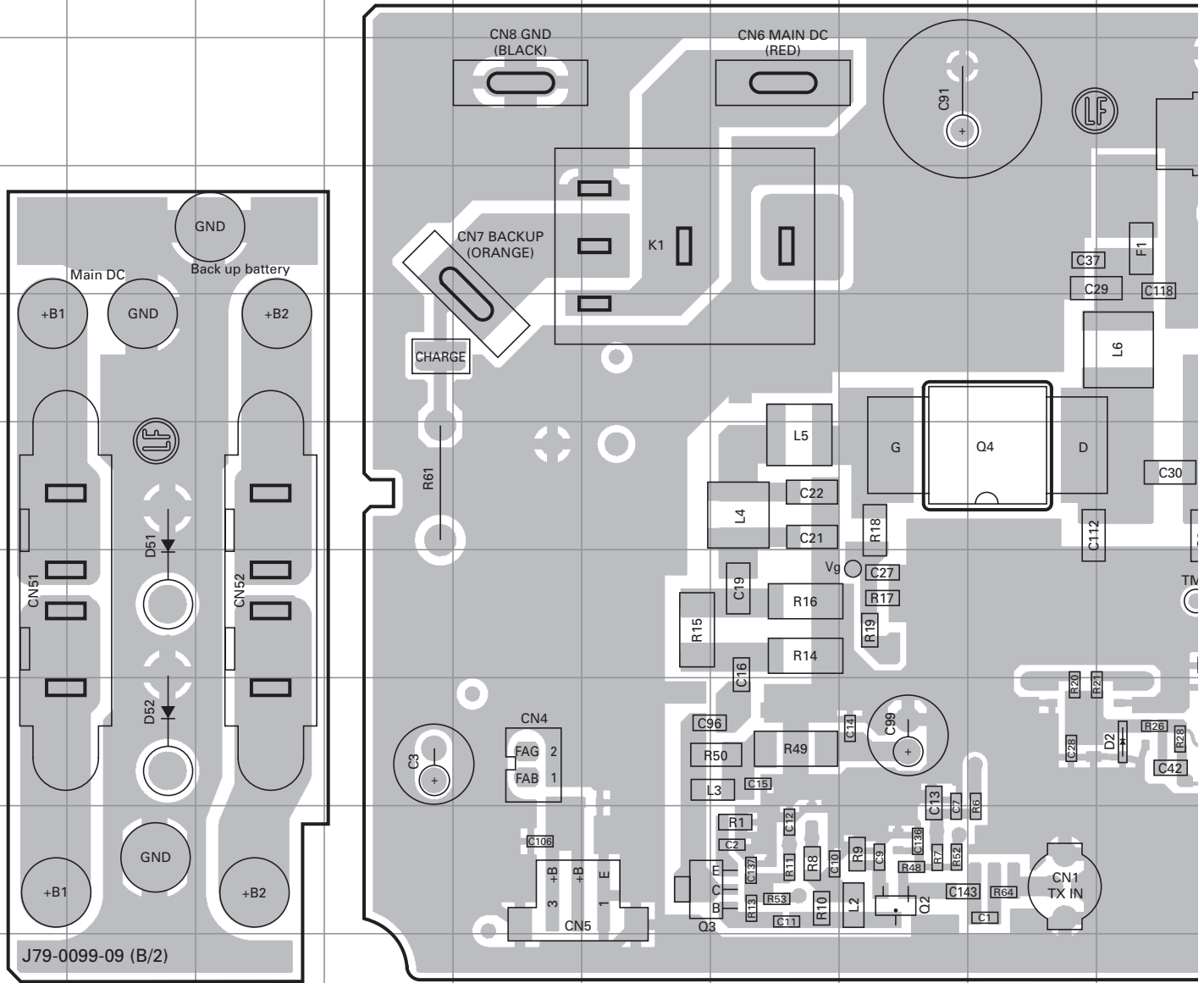
After this Test set-up is completed, confirm the Repeater Desensitization as mentioned below.

- 1) Disable the repeater mode.
- 2) Adjust the level of the RF generator until 12dB SINAD is reached.
- 3) Increase the output of the RF generator by 1dB. (This increases the SINAD.)
- 4) Enable the repeater mode.
- 5) Read the SINAD level. It should not drop below 12dB SINAD. If the SINAD is less than 12dB, check the tightness of the connectors and the tuning of duplexer.



# TKR-751 PC BOARD

## FINAL UNIT (X45-3732-71) Component side view (J79-0099-09)

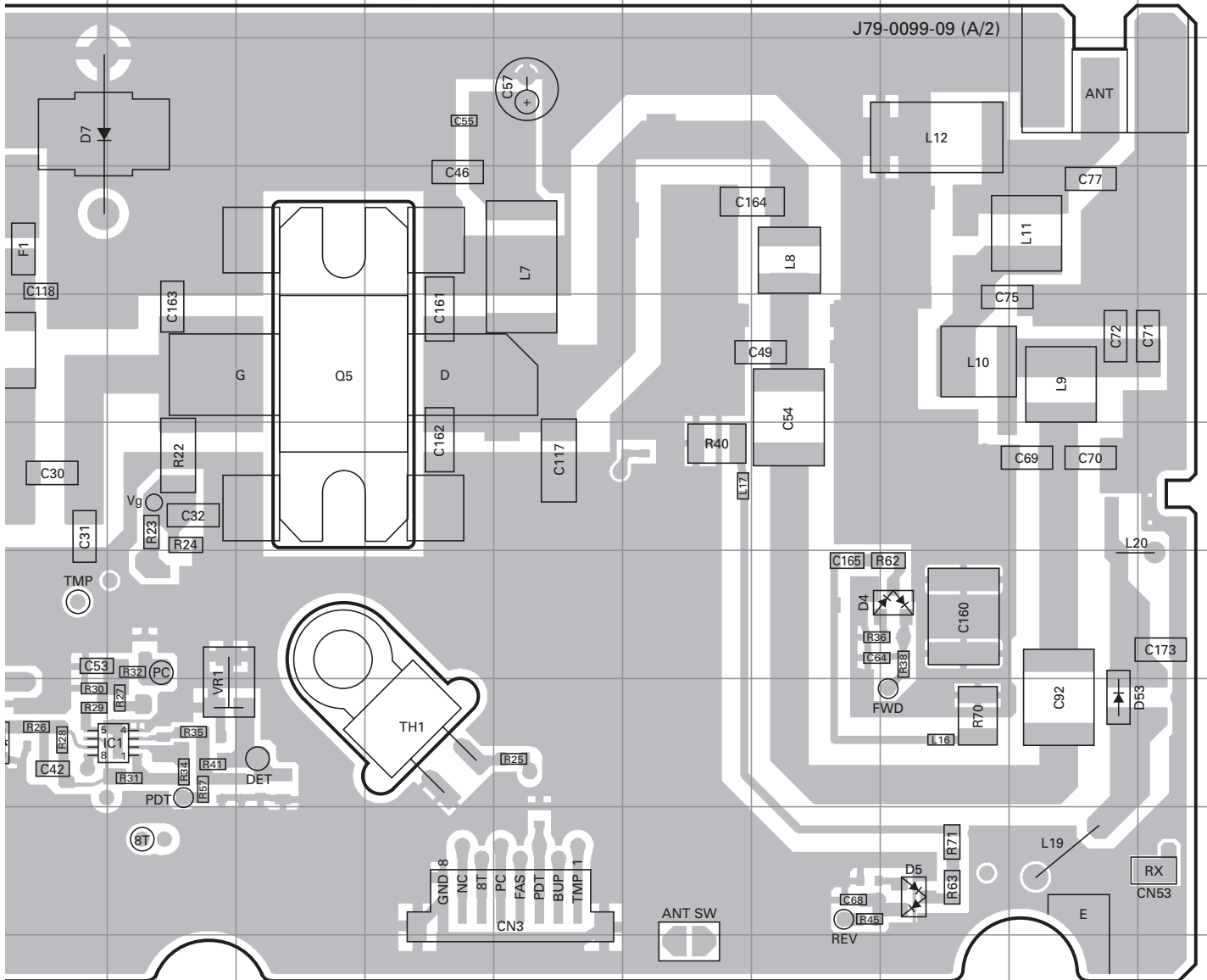


Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC1	8K	Q5	5L	D7	3J
Q2	9H	D2	8J	D51	7B
Q3	9F	D4	7Q	D52	8B
Q4	6I	D5	9Q	D53	8R

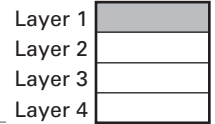
# PC BOARD TKR-751

## FINAL UNIT (X45-3732-71) Component side view (J79-0099-09)

J79-0099-09 (A/2)



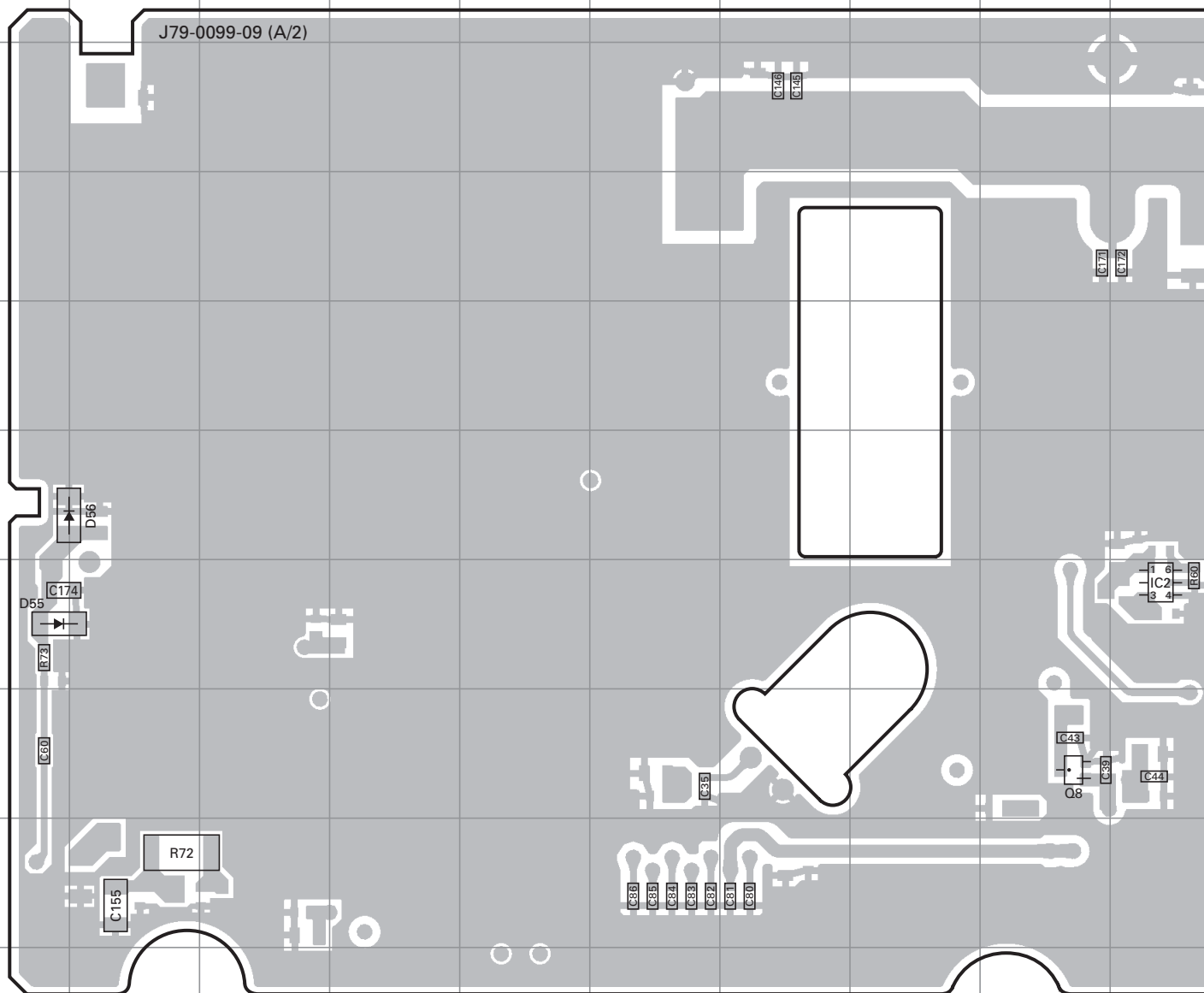
Component side



Foil side

# TKR-751 PC BOARD

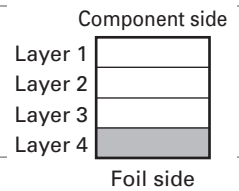
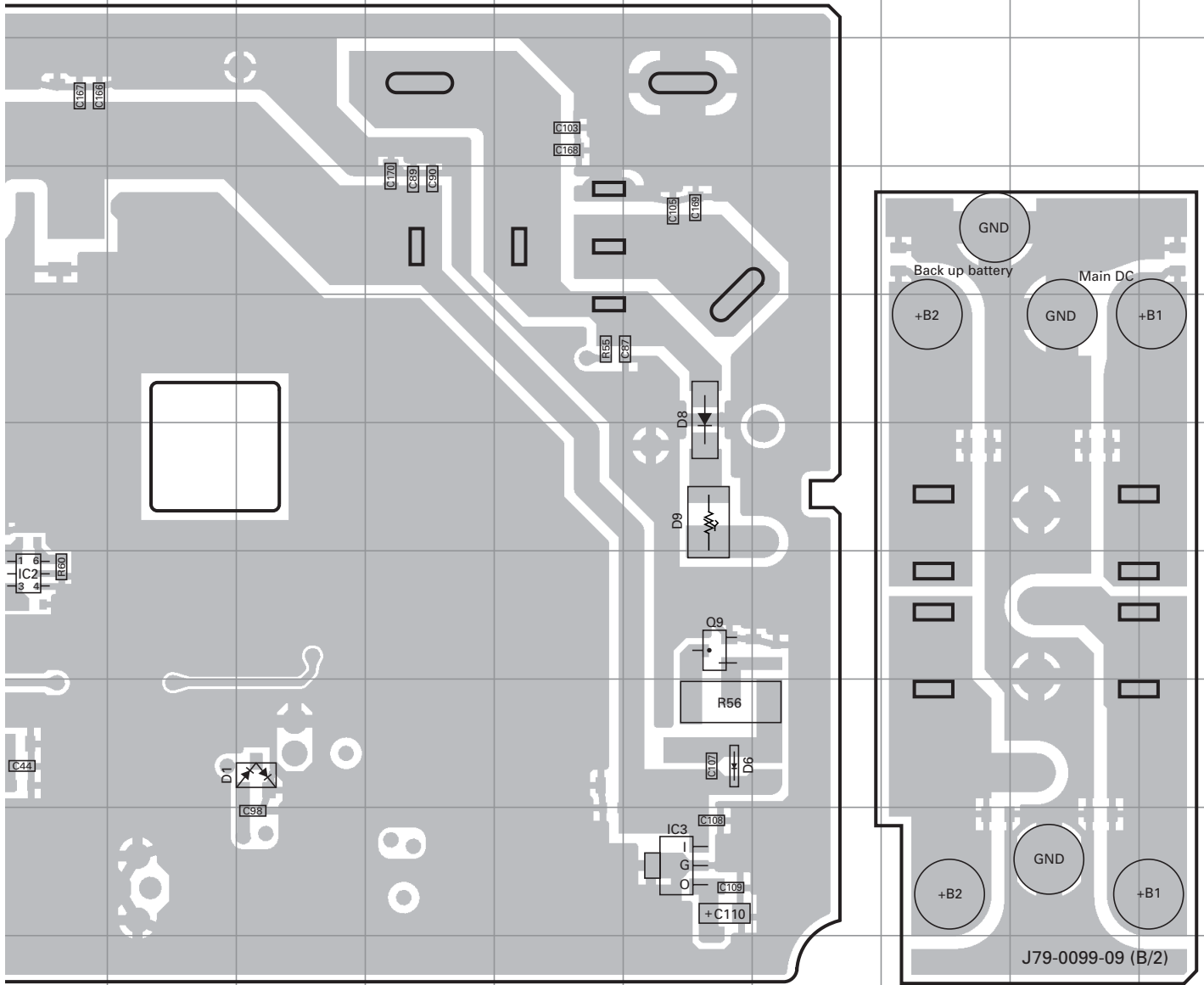
FINAL UNIT (X45-3732-71) Foil side view (J79-0099-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC2	7J	D1	8L	D55	7A
IC3	9O	D6	8O	D56	6B
Q8	8I	D8	5O		
Q9	7O	D9	6O		

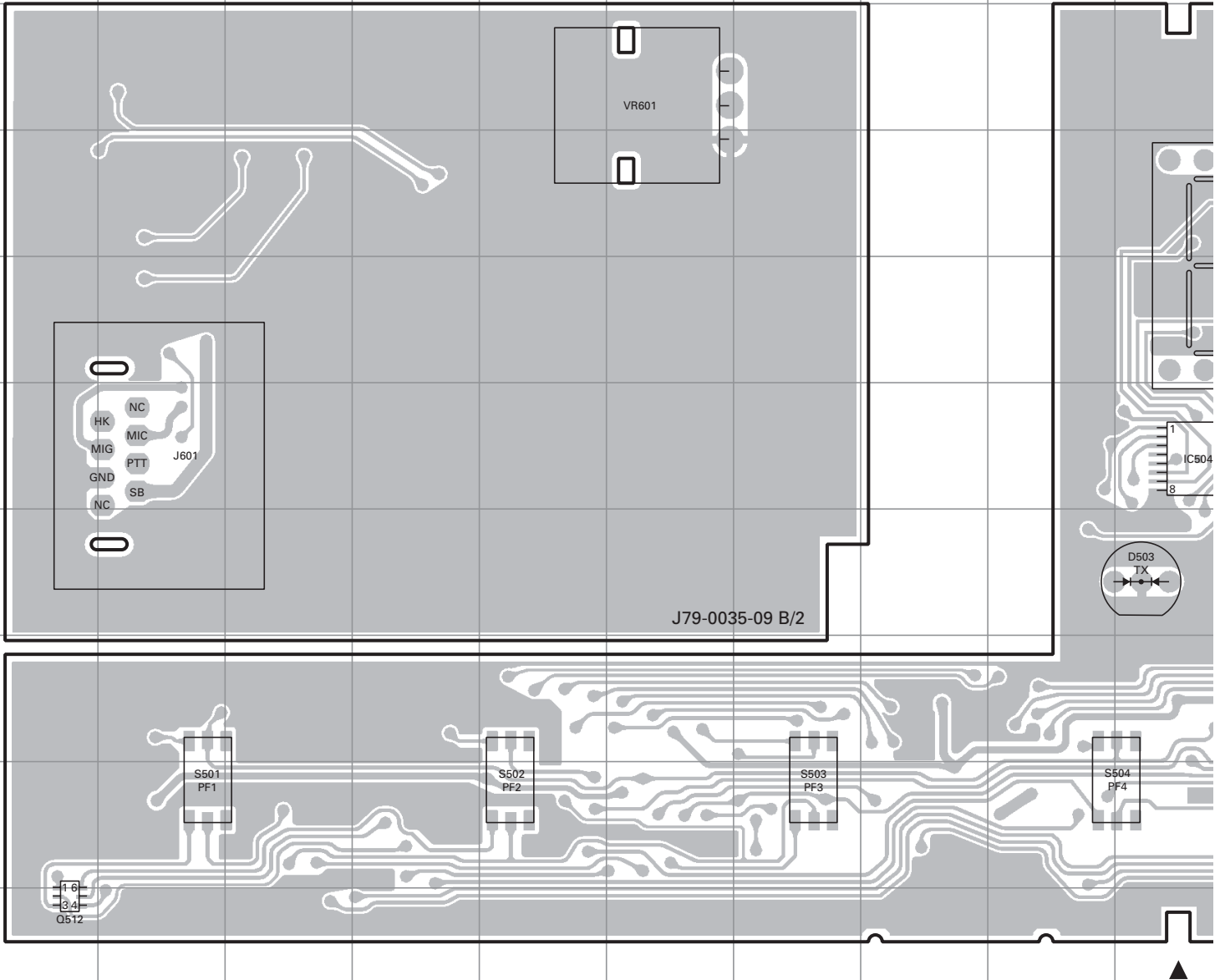
# PC BOARD TKR-751

FINAL UNIT (X45-3732-71) Foil side view (J79-0099-09)



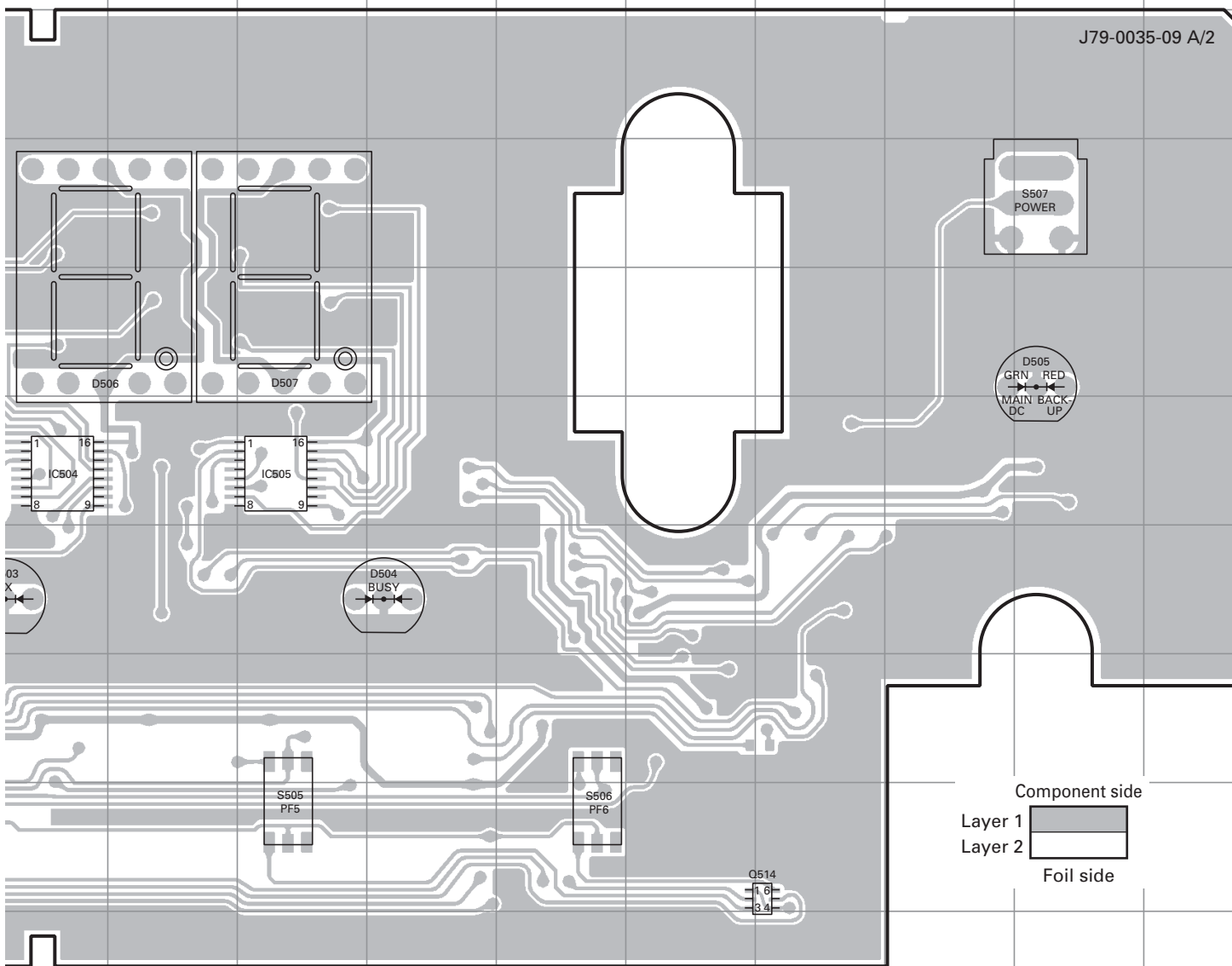
# TKR-751 PC BOARD

## DISPLAY UNIT (X54-3580-20) Component side view (J79-0035-09)



# PC BOARD TKR-751

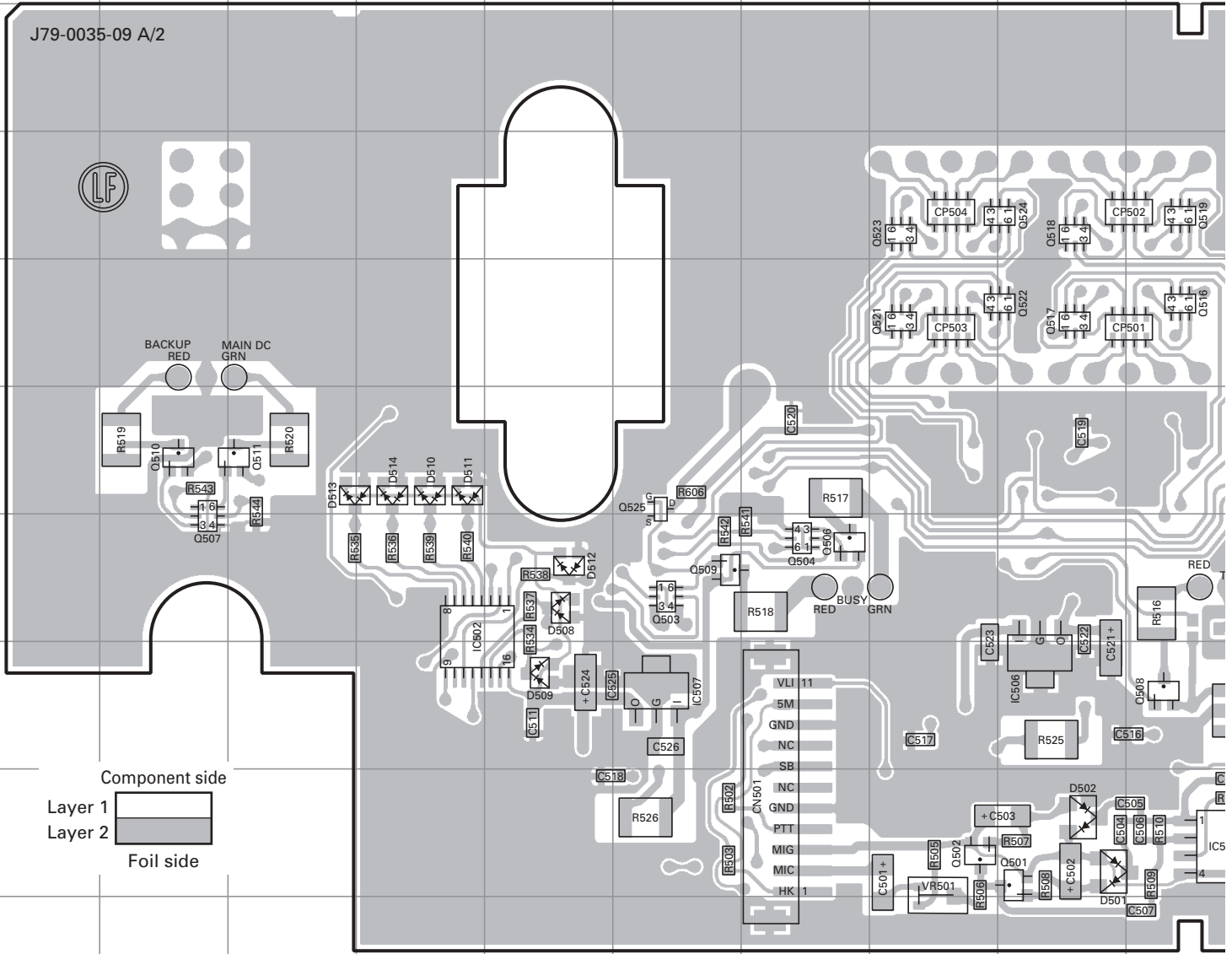
## DISPLAY UNIT (X54-3580-20) Component side view (J79-0035-09)



Ref. No.	Address
IC504	6J
IC505	6L
Q512	10A
Q514	9P
D503	7J
D504	7M
D505	5R
D506	5J
D507	5L

# TKR-751 PC BOARD

## DISPLAY UNIT (X54-3580-20) Foil side view (J79-0035-09)

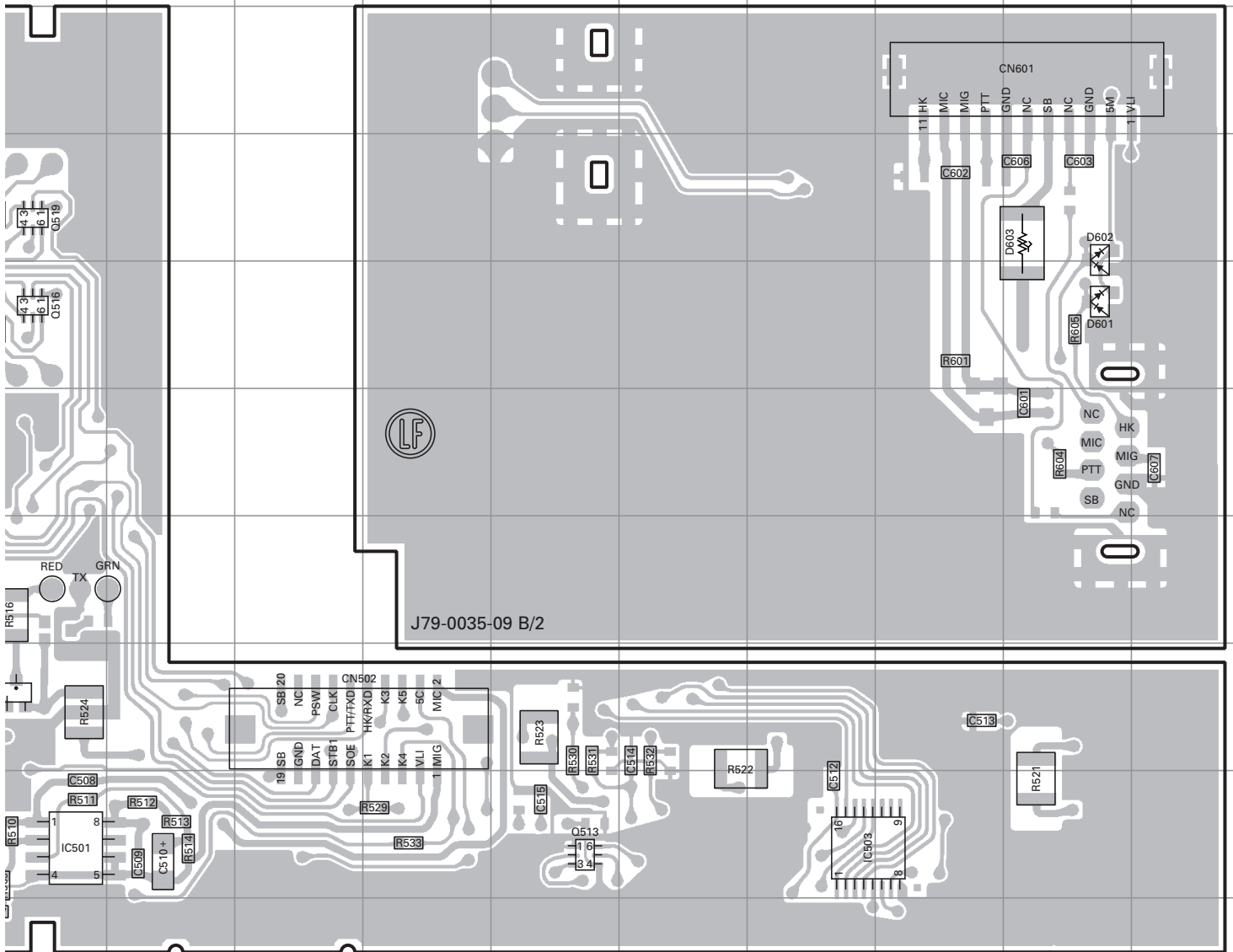


Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC501	9J	Q507	7B	Q521	5H	D511	6D
IC502	7D	Q508	8J	Q522	5I	D512	7E
IC503	9P	Q509	7F	Q523	4H	D513	6C
IC506	8I	Q510	6B	Q524	4I	D514	6D
IC507	8F	Q511	6C	Q525	6F	D601	5R
Q501	9I	Q513	9N	D501	9I	D602	4R
Q502	9H	Q516	5J	D502	9I	D603	4R
Q503	7F	Q517	5I	D508	7E		
Q504	7G	Q518	4I	D509	8E		
Q506	7G	Q519	4J	D510	6D		



# PC BOARD TKR-751

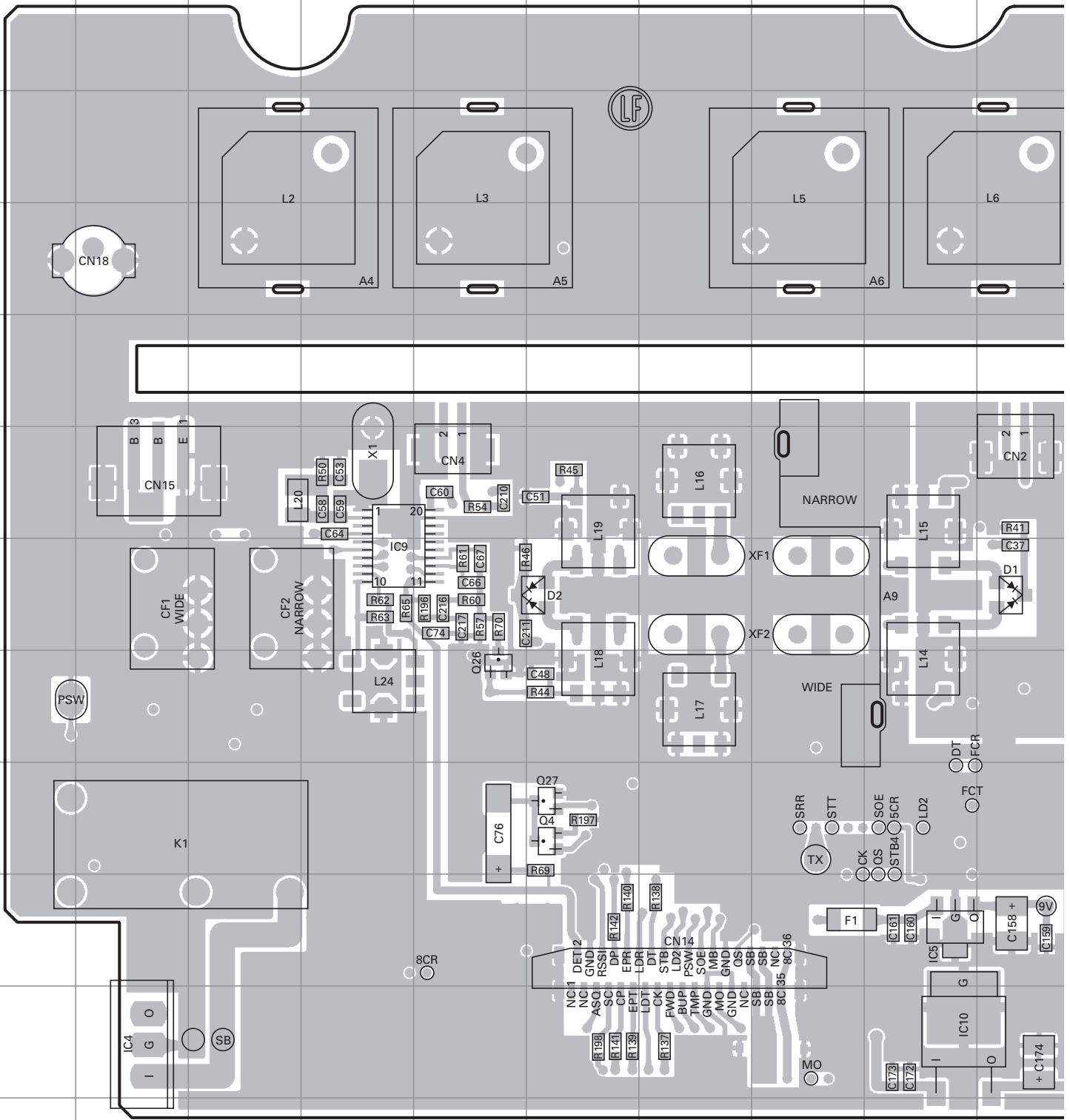
## DISPLAY UNIT (X54-3580-20) Foil side view (J79-0035-09)



# TKR-751 PC BOARD

TX-RX UNIT (X57-695X-XX) (A/2) 0-11 : K 2-70 : E

Component side view (J79-0097-19 A/2)

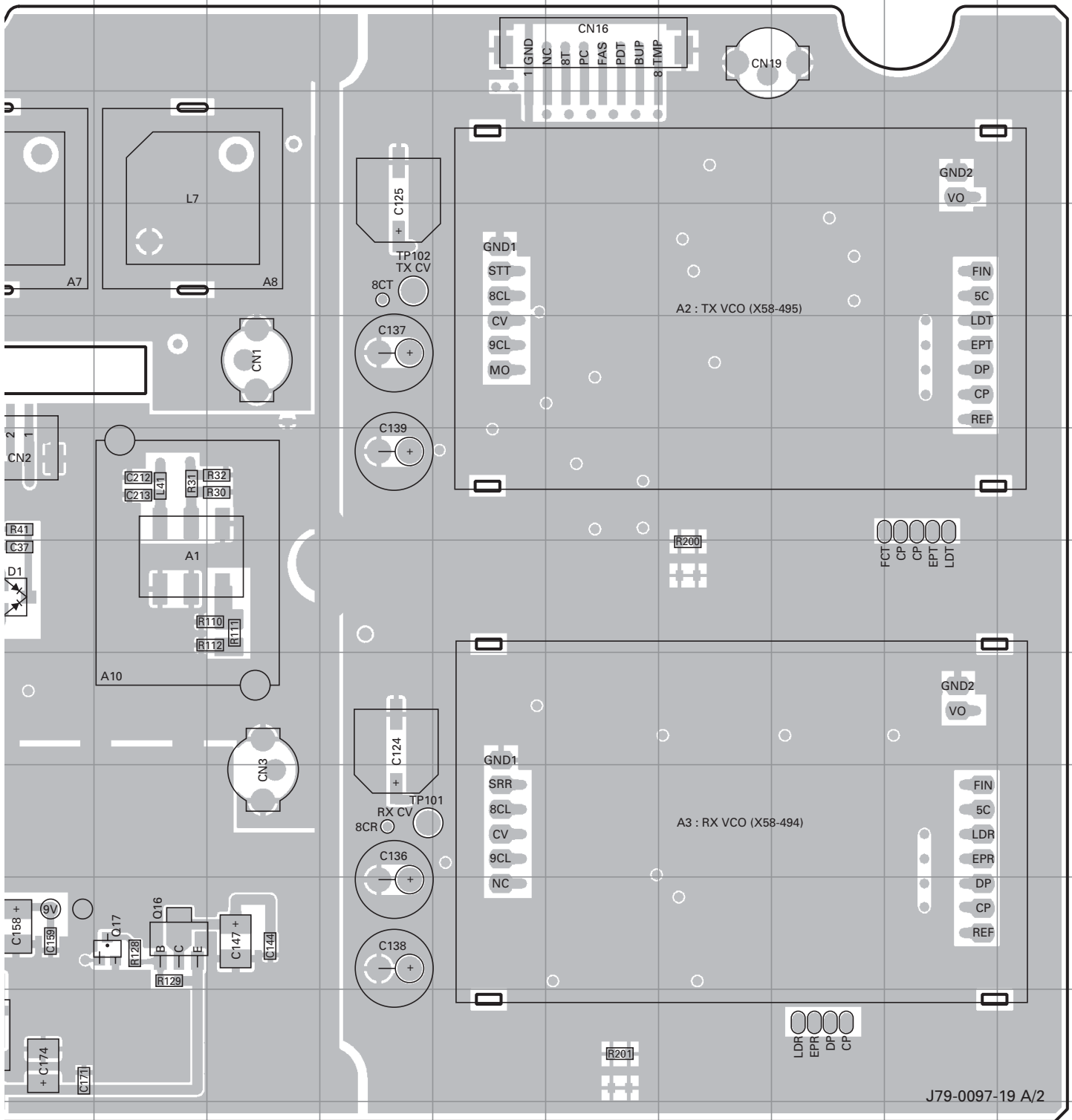


Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC4	11B	Q4	9F	Q27	9F
IC5	10I	Q16	10K	D1	7J
IC9	7D	Q17	10K	D2	7F
IC10	11I	Q26	8E		

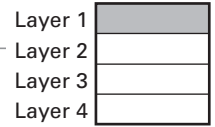
# PC BOARD TKR-751

TX-RX UNIT (X57-695X-XX) (A/2) 0-11 : K 2-70 : E

Component side view (J79-0097-19 A/2)



Component side

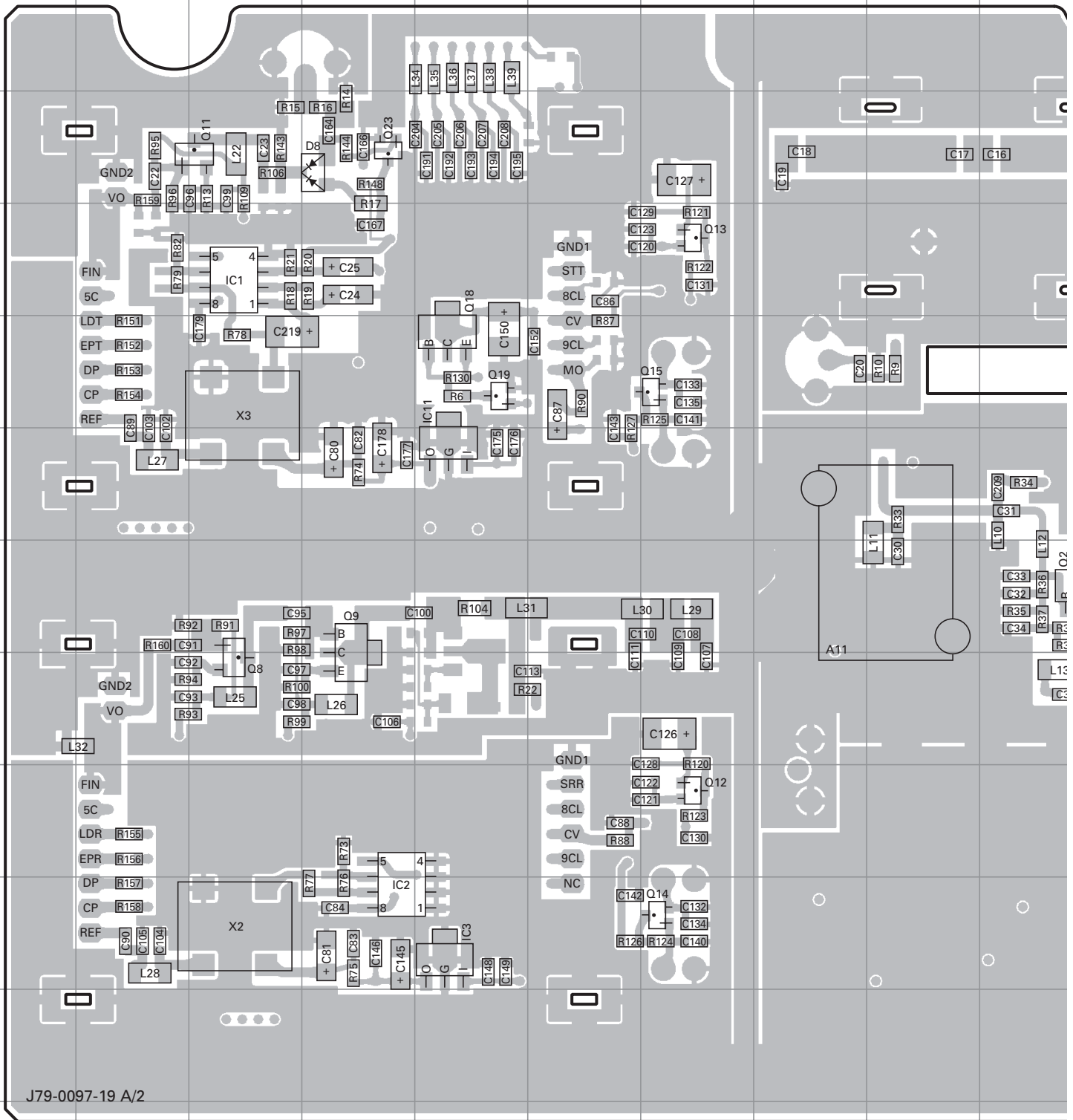


Foil side

# TKR-751 PC BOARD

TX-RX UNIT (X57-695X-XX) (A/2) 0-11 : K 2-70 : E

Foil side view (J79-0097-19 A/2)



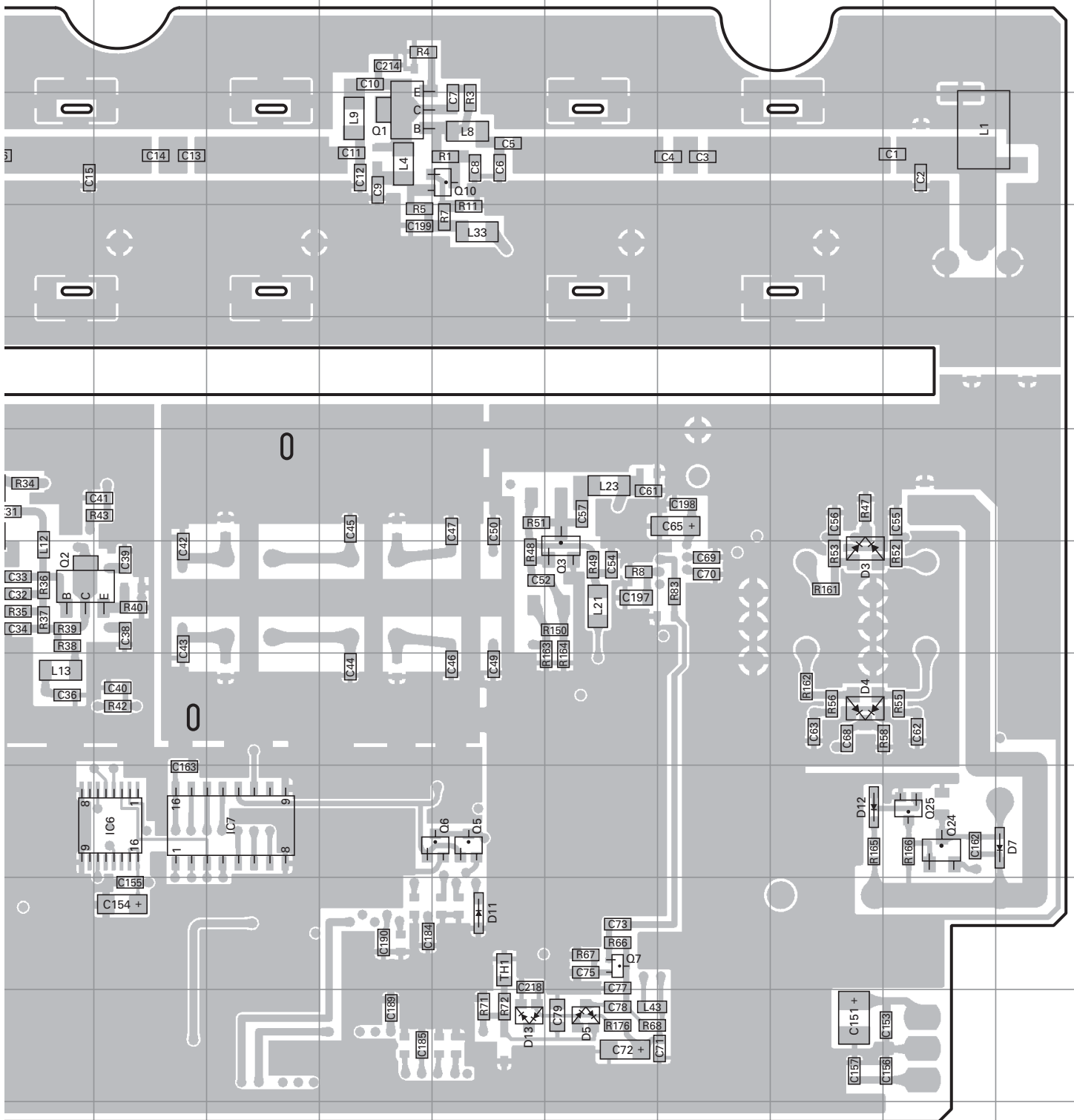
J79-0097-19 A/2

Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC1	4C	Q1	3M	Q8	8C	Q14	10G	Q25	9R	D11	10N
IC2	10D	Q2	7J	Q9	7D	Q15	5G	D3	7Q	D12	9Q
IC3	10E	Q3	7O	Q10	3N	Q18	5E	D4	8Q	D13	11N
IC6	9K	Q5	9N	Q11	3C	Q19	5E	D5	11O		
IC7	9L	Q6	9N	Q12	9G	Q23	3D	D7	9S		
IC11	6E	Q7	10O	Q13	4G	Q24	9R	D8	3D		

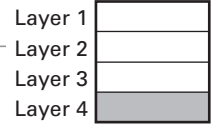
# PC BOARD TKR-751

TX-RX UNIT (X57-695X-XX) (A/2) 0-11 : K 2-70 : E

Foil side view (J79-0097-19 A/2)



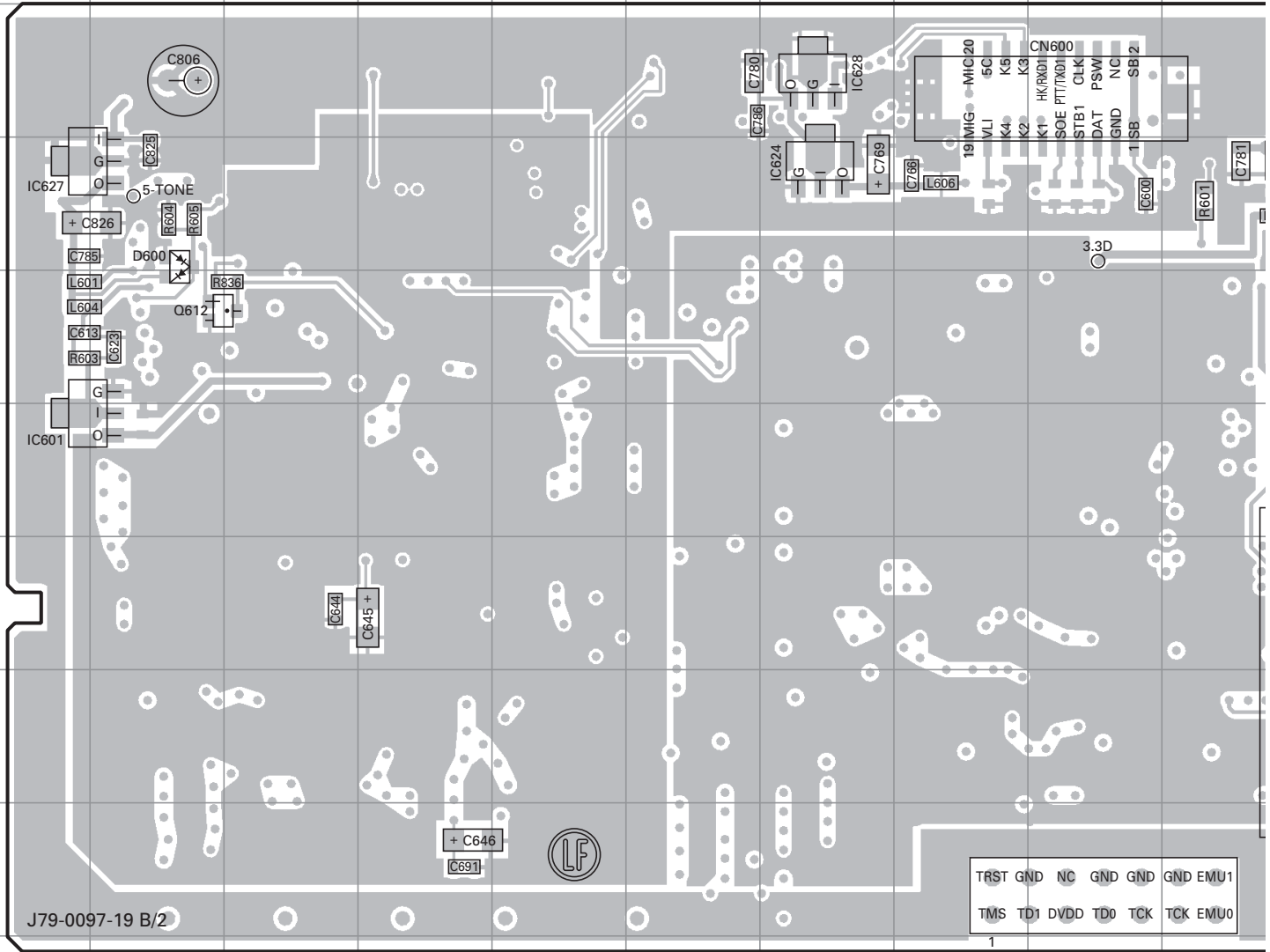
Component side



Foil side

# TKR-751 PC BOARD

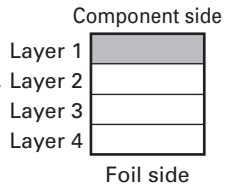
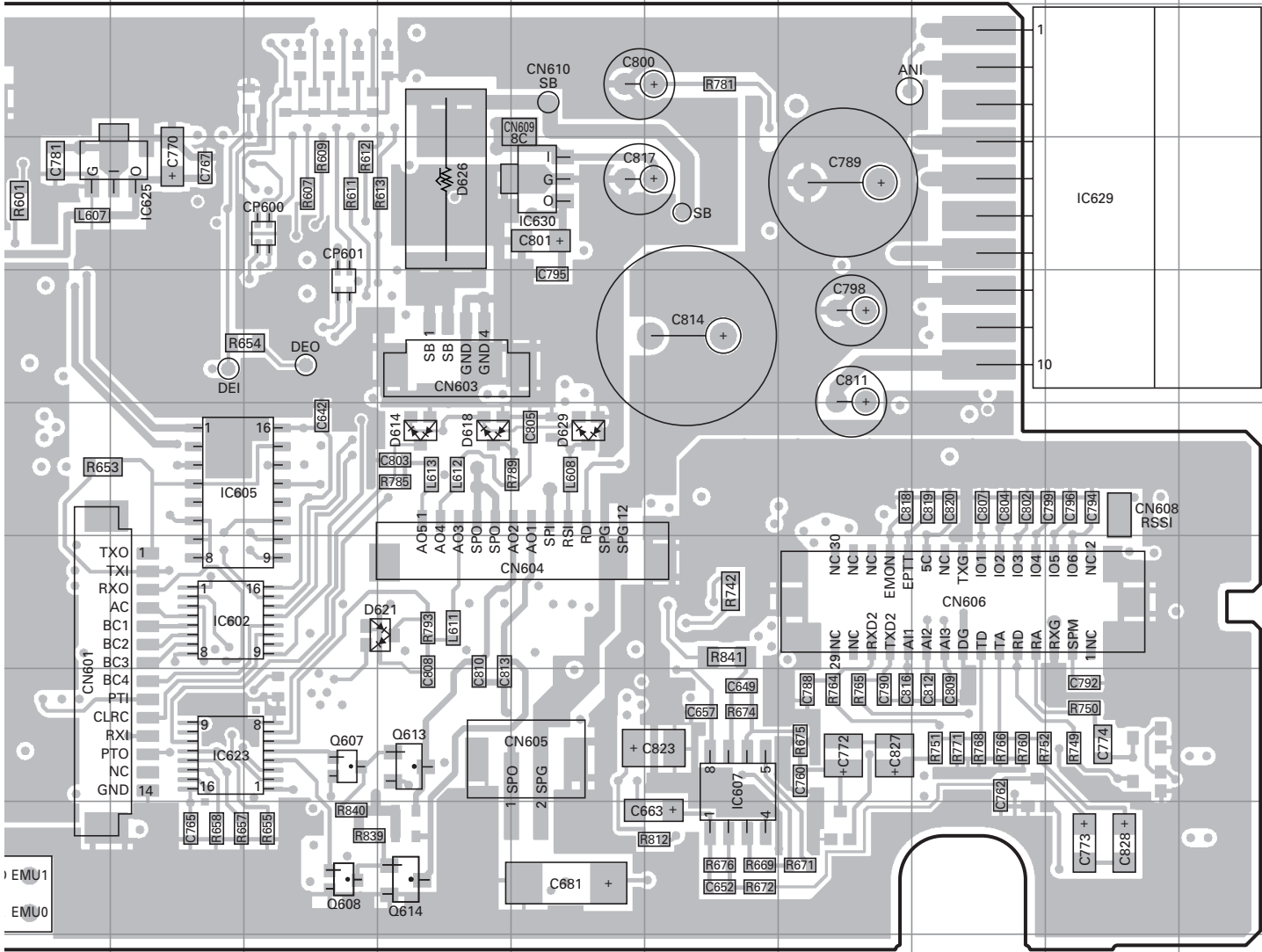
TX-RX UNIT (X57-695X-XX) (B/2) 0-11 : K 2-70 : E  
 Component side view (J79-0097-19 B/2)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC601	6A	IC628	3G	D600	4B
IC602	7K	IC629	4R	D614	6M
IC605	6K	IC630	4N	D618	6M
IC607	8O	Q607	8L	D621	7M
IC623	8K	Q608	9L	D626	4M
IC624	4G	Q612	5B	D629	6N
IC625	4K	Q613	8M		
IC627	4A	Q614	9M		

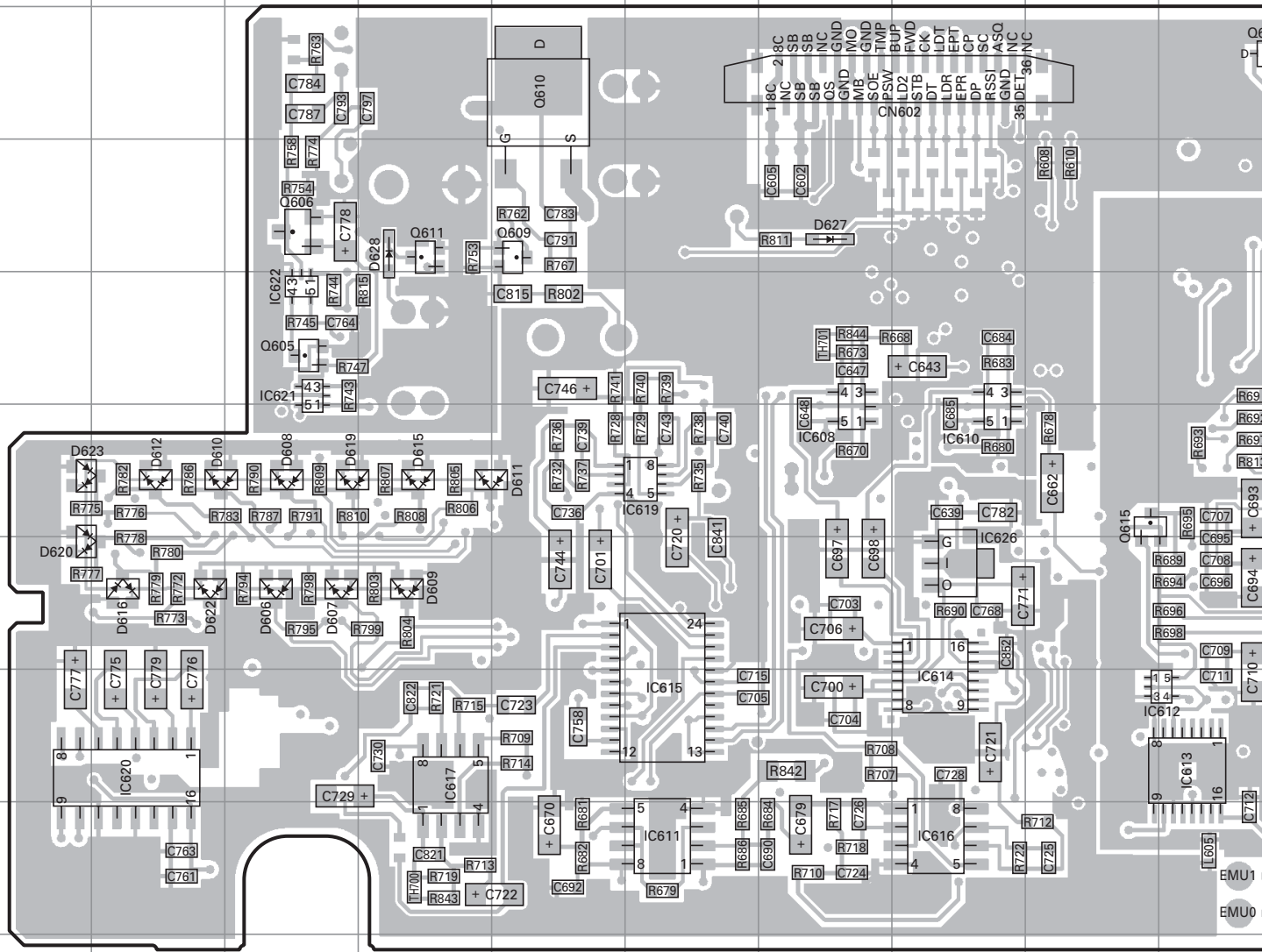
# PC BOARD TKR-751

TX-RX UNIT (X57-695X-XX) (B/2) 0-11 : K 2-70 : E  
Component side view (J79-0097-19 B/2)



# TKR-751 PC BOARD

TX-RX UNIT (X57-695X-XX) (B/2) 0-11 : K 2-70 : E  
Foil side view (J79-0097-19 B/2)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC600	4O	IC612	8J	IC620	8B	Q602	3J	Q615	6I	D615	6D
IC603	9N	IC613	8J	IC621	5C	Q603	4K	D606	7C	D616	7B
IC604	6Q	IC614	8H	IC622	5C	Q604	8L	D607	7C	D619	6C
IC606	4M	IC615	8F	IC626	7H	Q605	5C	D608	6C	D620	7A
IC608	6G	IC616	9H	IC631	3N	Q606	4C	D609	7D	D622	7B
IC609	9Q	IC617	8D	IC632	3M	Q609	4E	D610	6B	D623	6A
IC610	6H	IC618	7L	Q600	4Q	Q610	3E	D611	6E	D627	4G
IC611	9F	IC619	6F	Q601	3K	Q611	4D	D612	6B	D628	4D

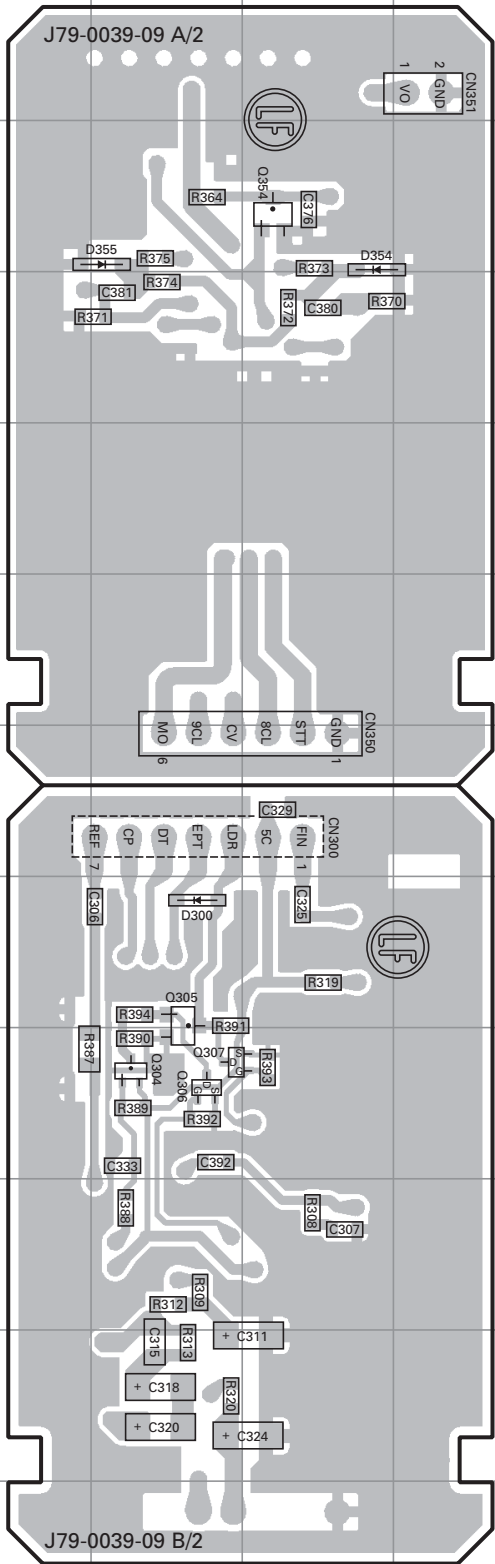






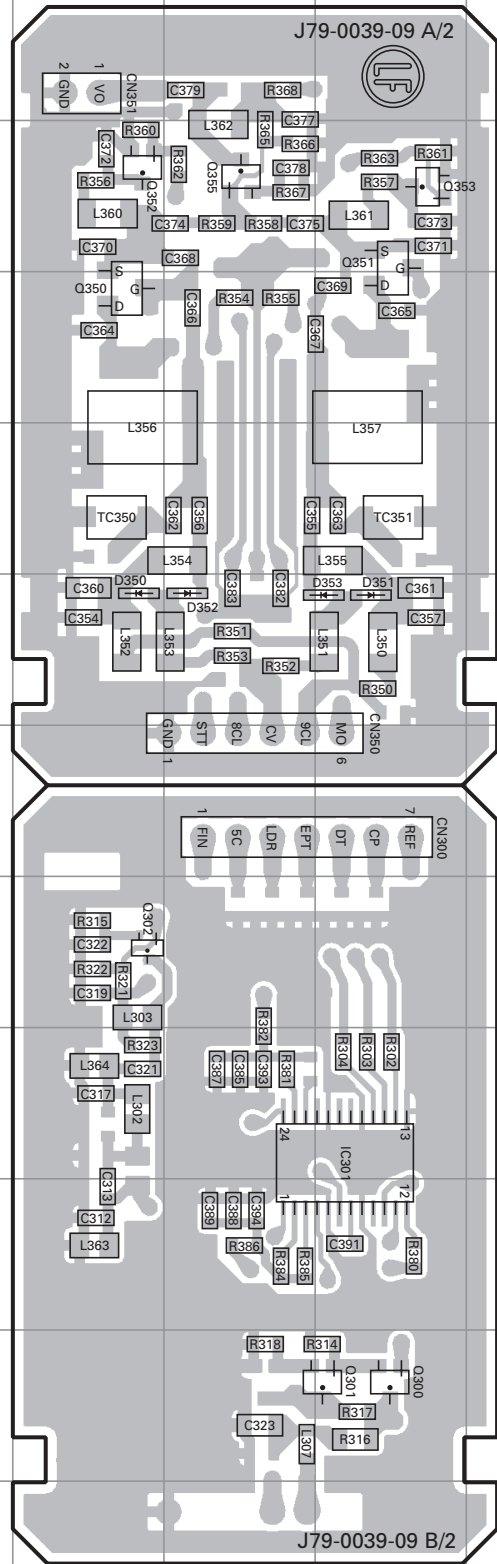
# PC BOARD TKR-751

**TX VCO UNIT (X58-4952-70)**  
**Component side view (J79-0039-09)**



Ref. No.	Address	Ref. No.	Address
Q304	9B	Q354	3C
Q305	8B	D300	8B
Q306	9B	D354	3C
Q307	9B	D355	3B

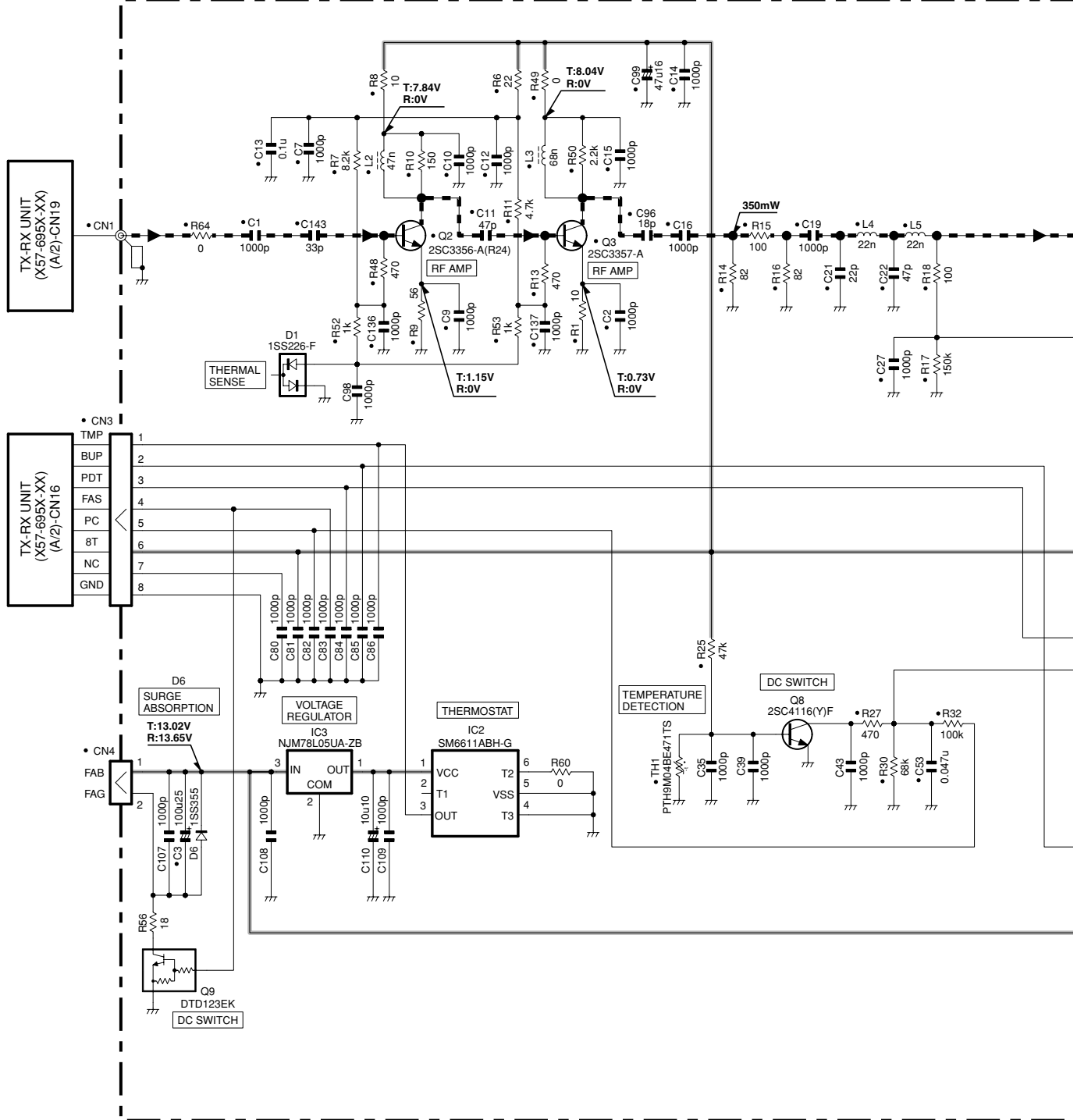
**TX VCO UNIT (X58-4952-70)**  
**Foil side view (J79-0039-09)**



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC301	9H	Q351	3H	D351	6H
Q300	11H	Q352	3F	D352	6G
Q301	11H	Q353	3H	D353	6H
Q302	8F	Q355	3G		
Q350	4F	D350	6F		

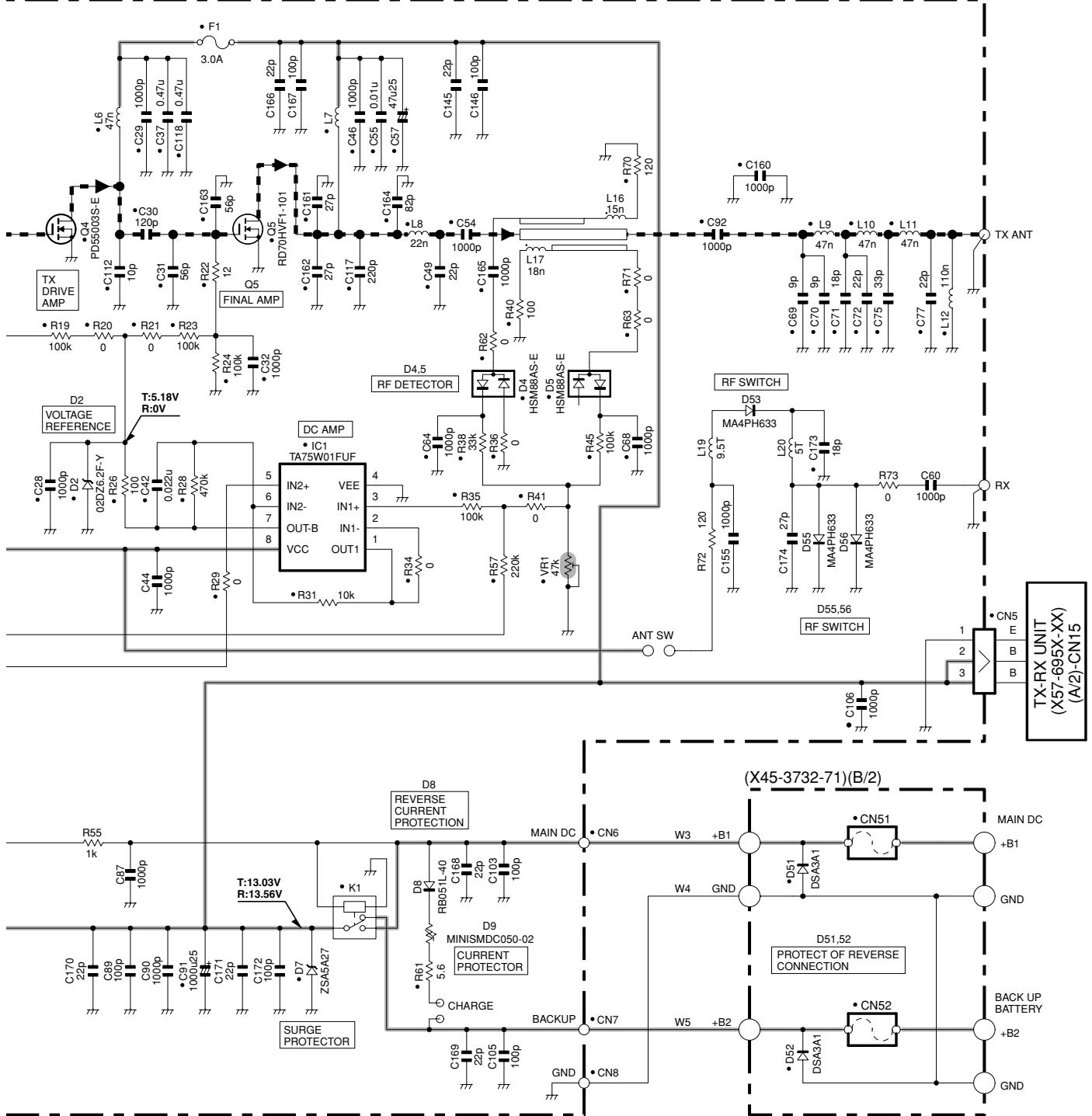
# TKR-751 SCHEMATIC DIAGRAM

FINAL UNIT  
(X45-3732-71) (A/2)



# SCHEMATIC DIAGRAM TKR-751

## FINAL UNIT (X45-3732-71) (A/2)

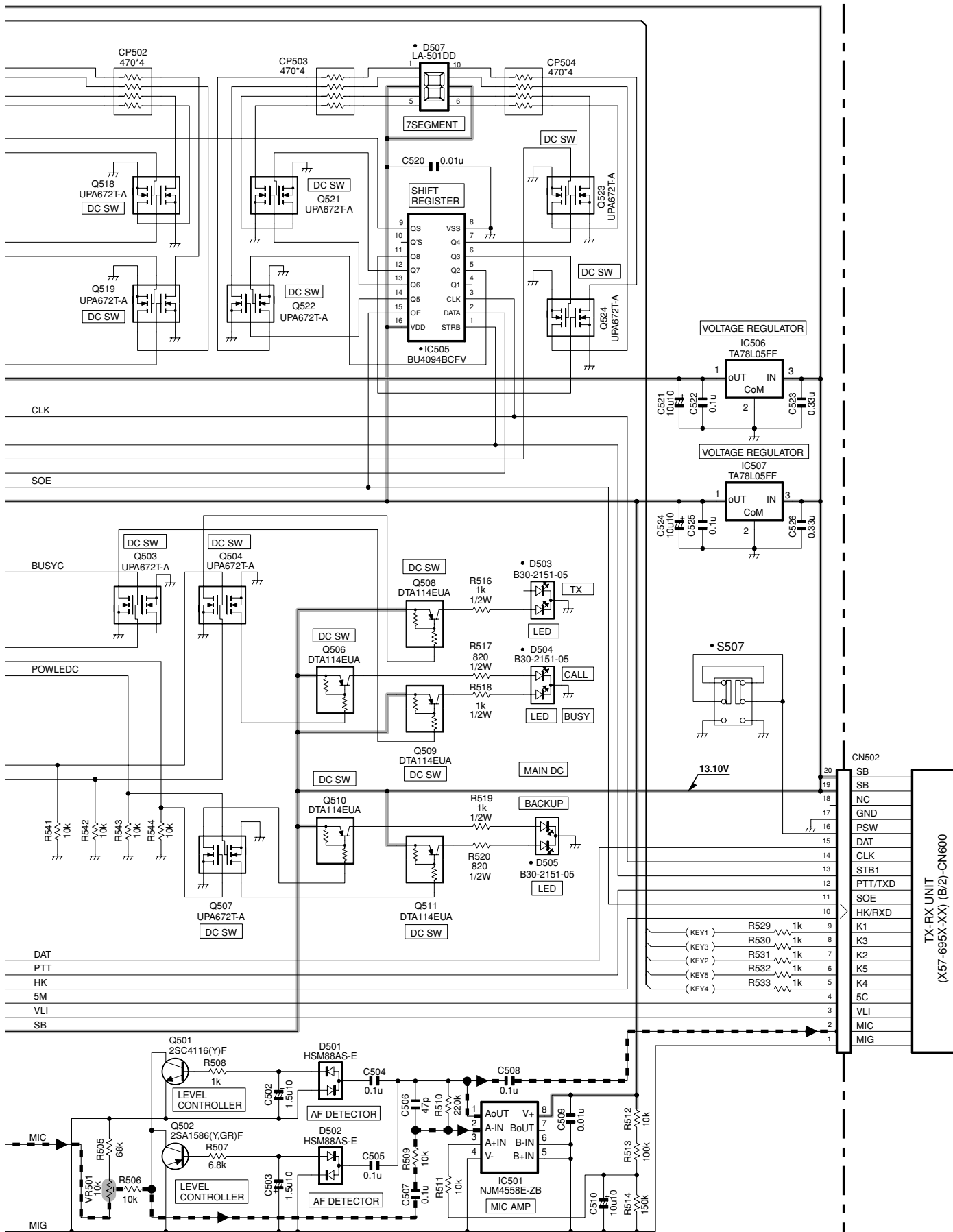


Note : The components marked with a dot (•) are parts of layer 1.



# SCHEMATIC DIAGRAM TKR-751

DISPLAY UNIT (X54-3580-20) (A/2)



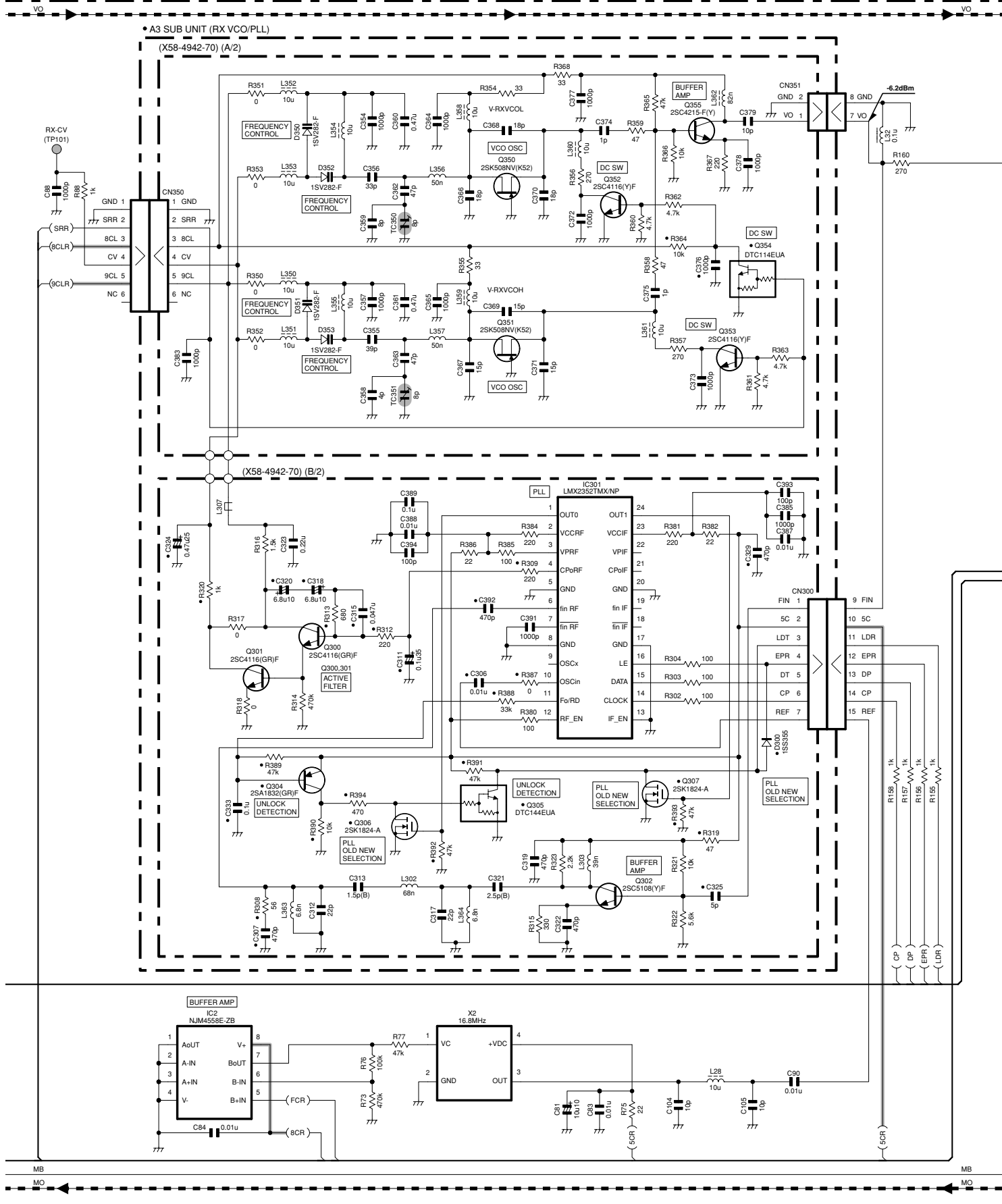
Note : The components marked with a dot (•) are parts of layer 1.





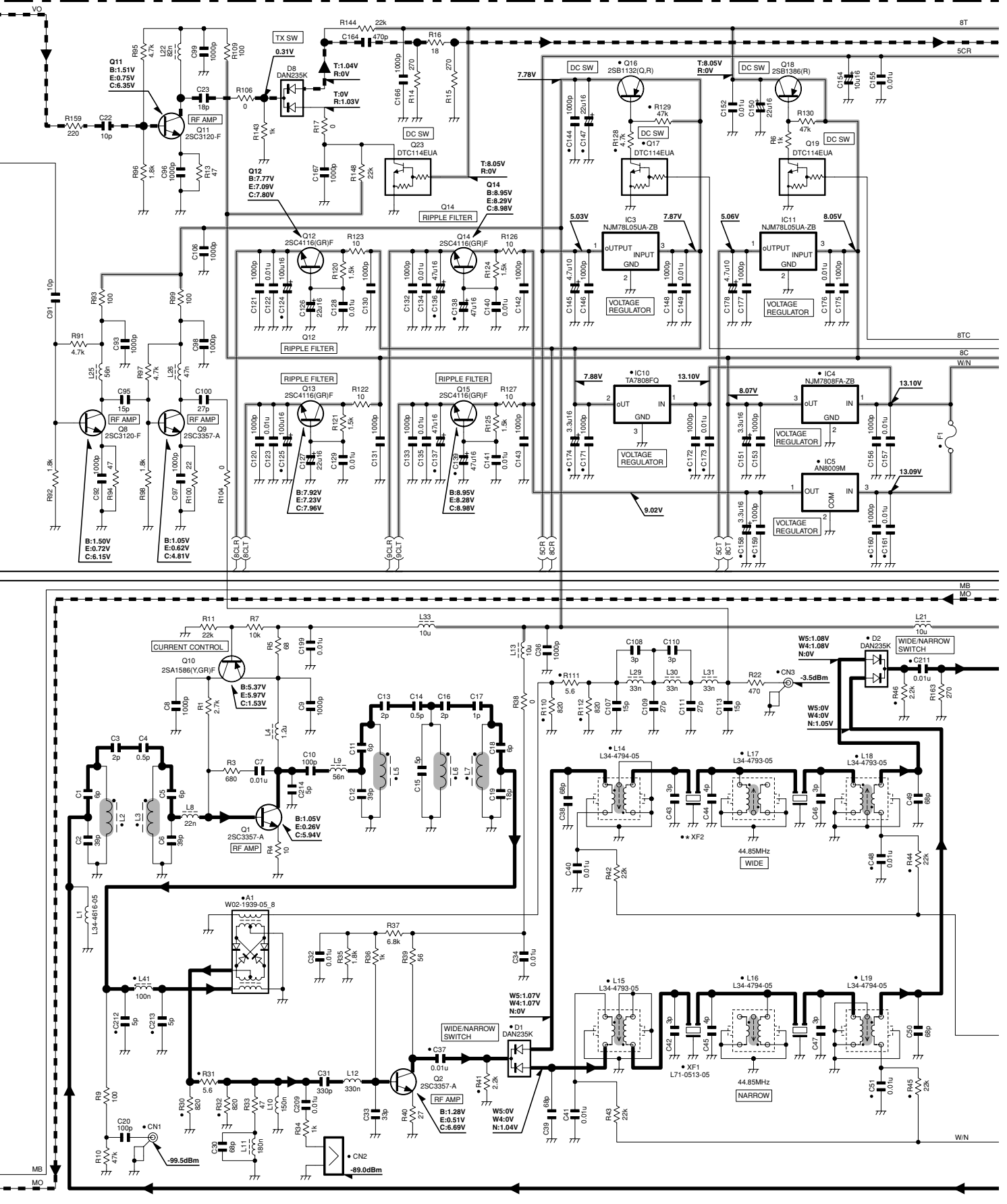
# SCHEMATIC DIAGRAM TKR-751

TX-RX UNIT (X57-695X-XX) (A/2)



# TKR-751 SCHEMATIC DIAGRAM

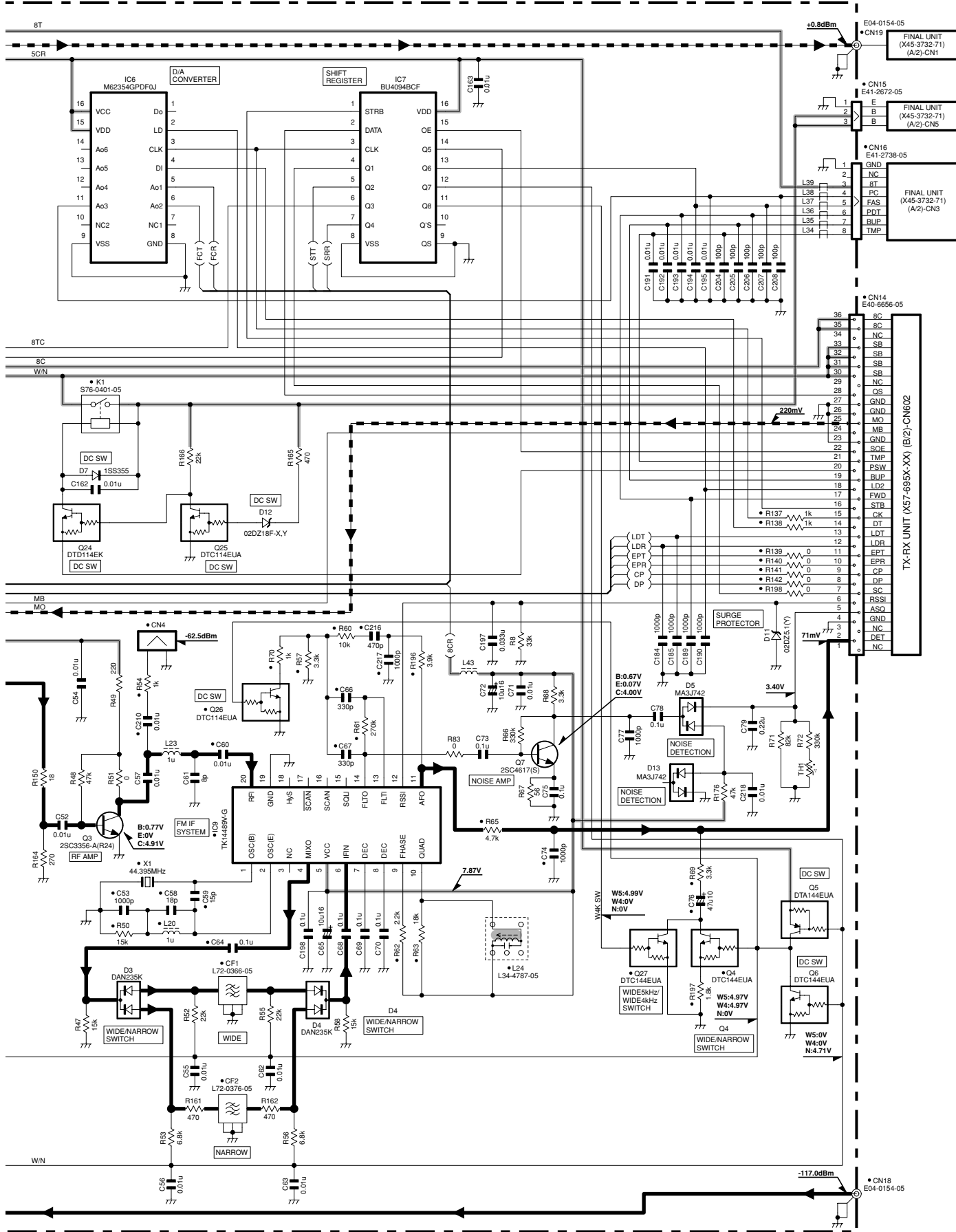
TX-RX UNIT (X57-695X-XX) (A/2)



X57-695X-XX	XF2
2-70	E L71-0627-05
0-11	K L71-0512-05

# SCHEMATIC DIAGRAM TKR-751

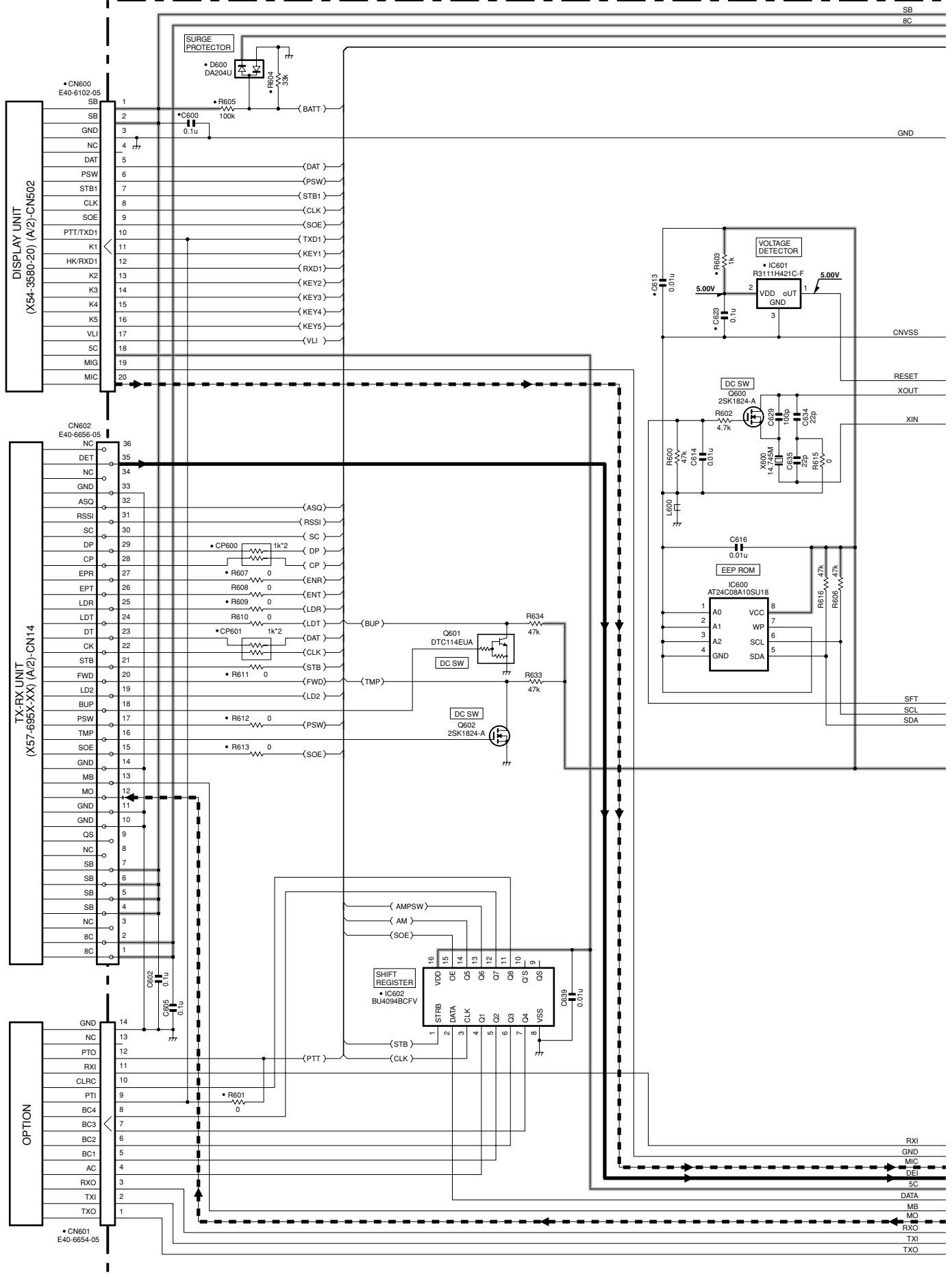
TX-RX UNIT (X57-695X-XX) (A/2)



Note : The components marked with a dot (•) are parts of layer 1.

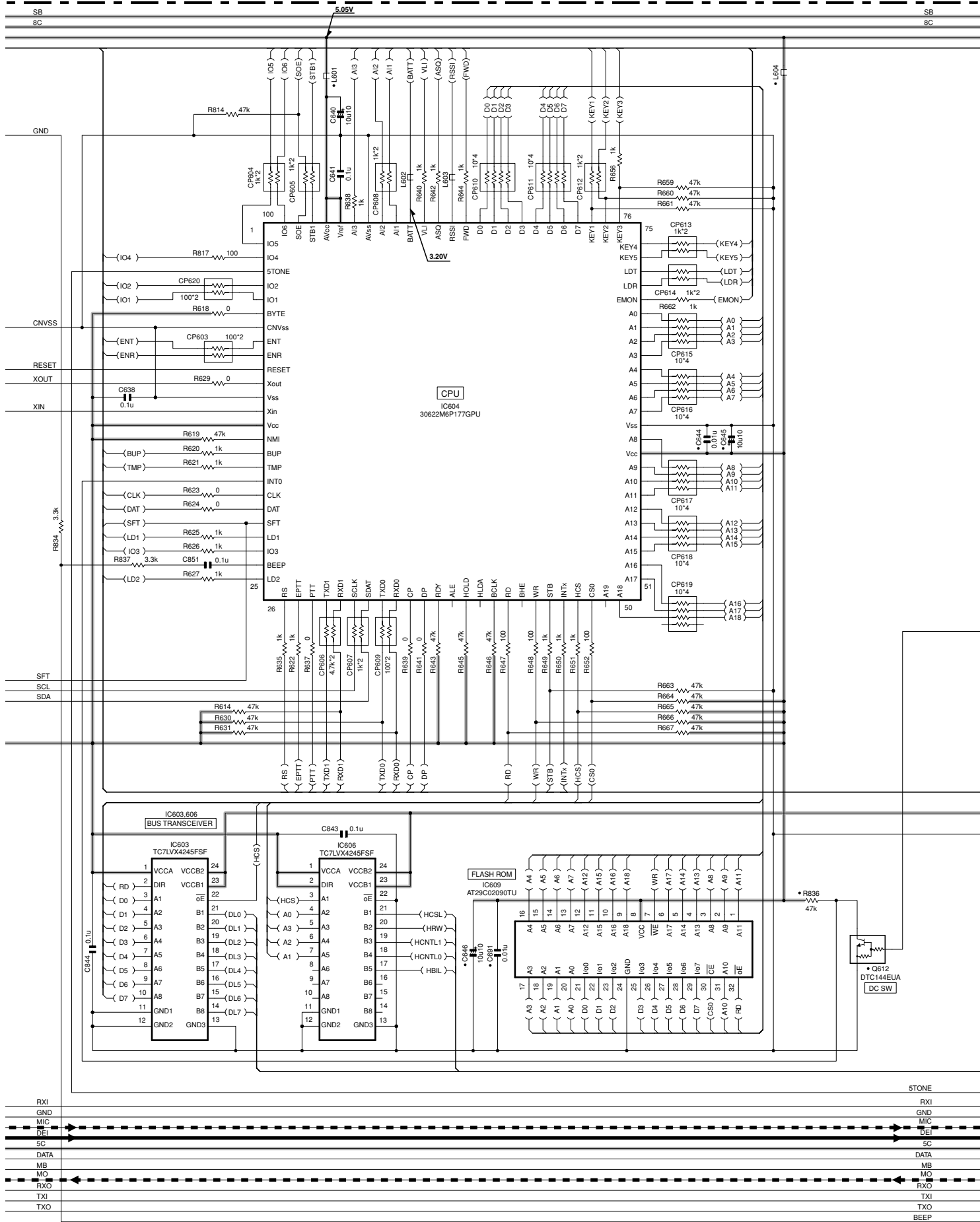
# TKR-751 SCHEMATIC DIAGRAM

TX-RX UNIT (X57-695X-XX) (B/2)



# SCHEMATIC DIAGRAM TKR-751

TX-RX UNIT (X57-695X-XX) (B/2)

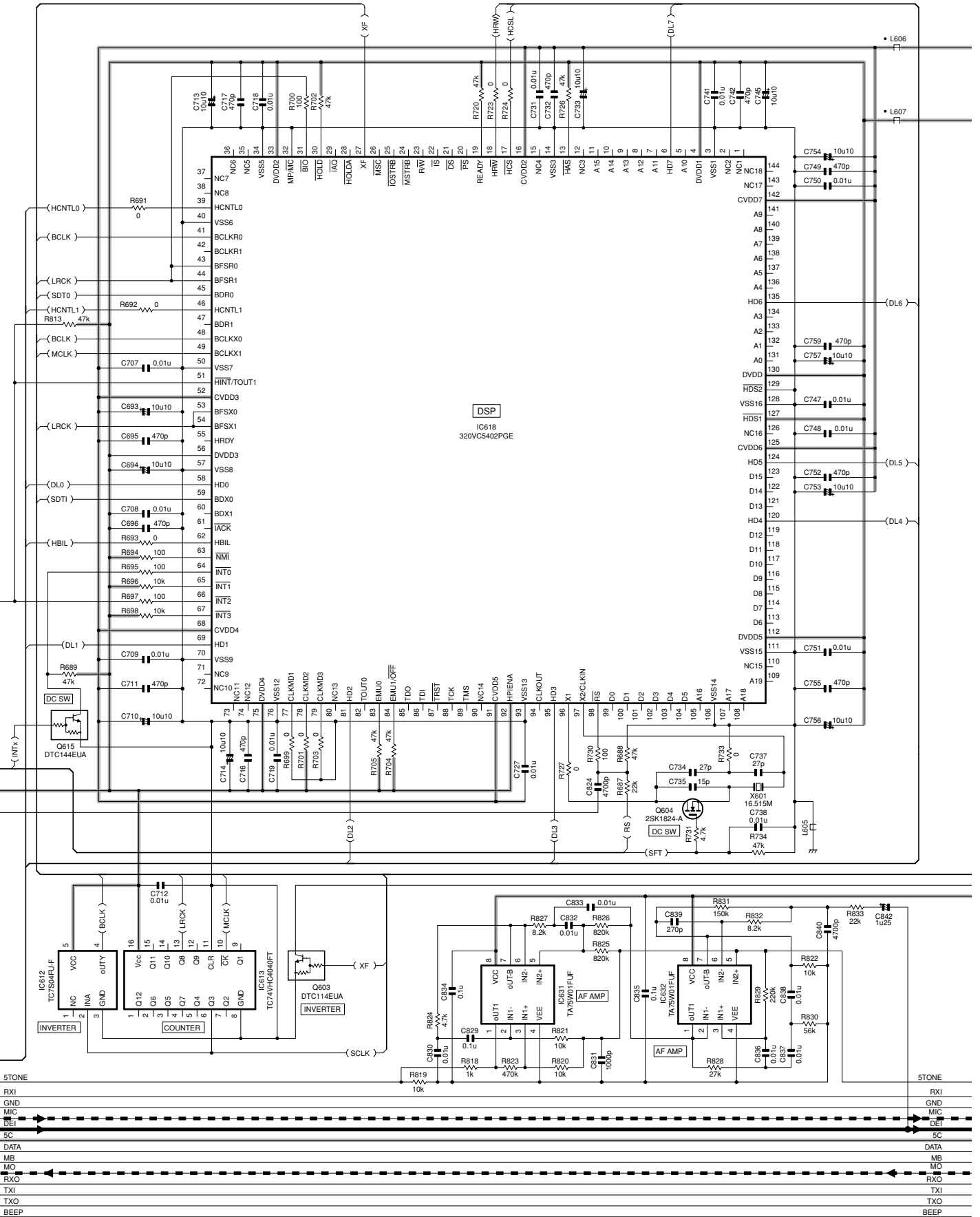


# TKR-751 SCHEMATIC DIAGRAM

TX-RX UNIT (X57-695X-XX) (B/2)

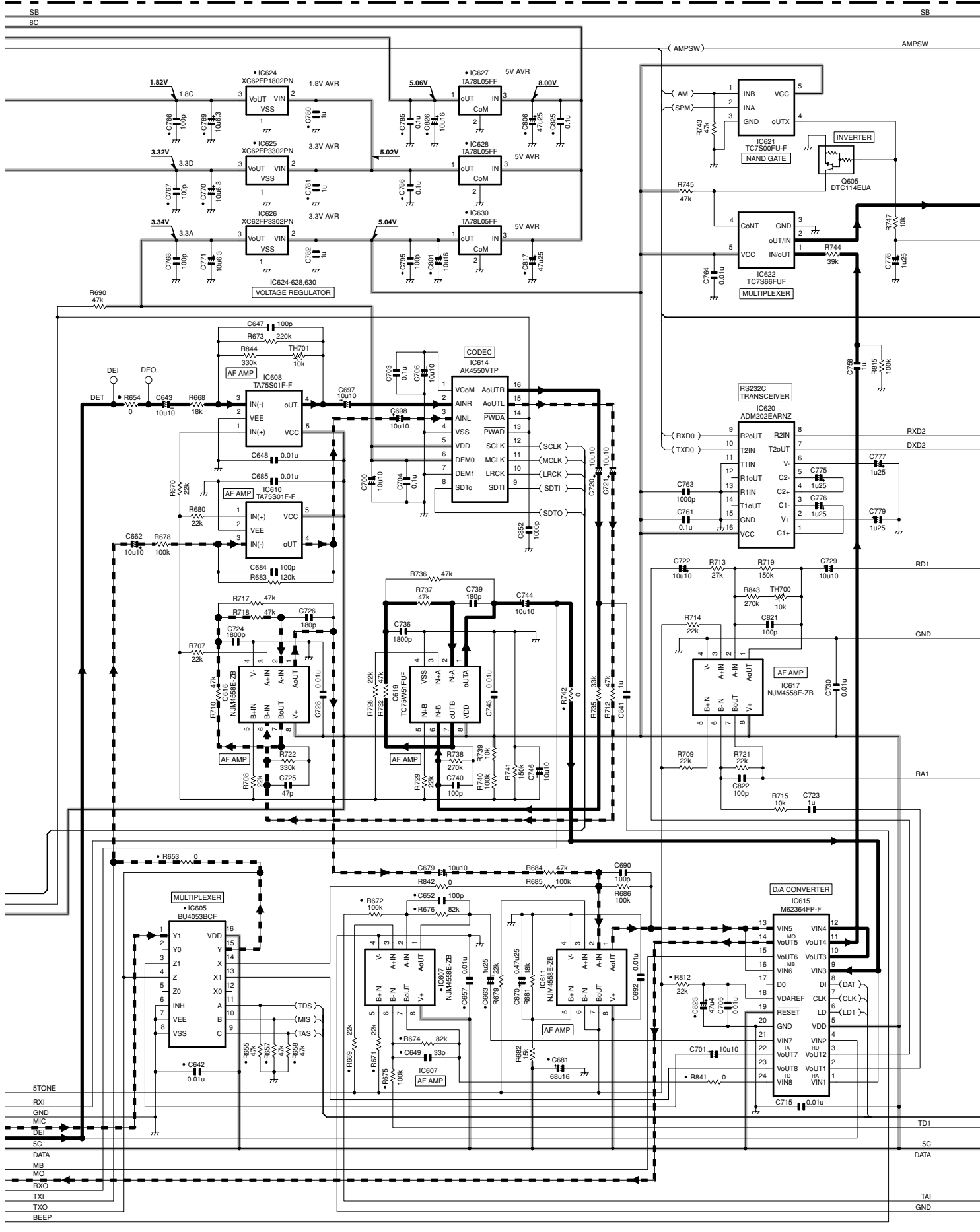
SB  
8C

SB  
8C



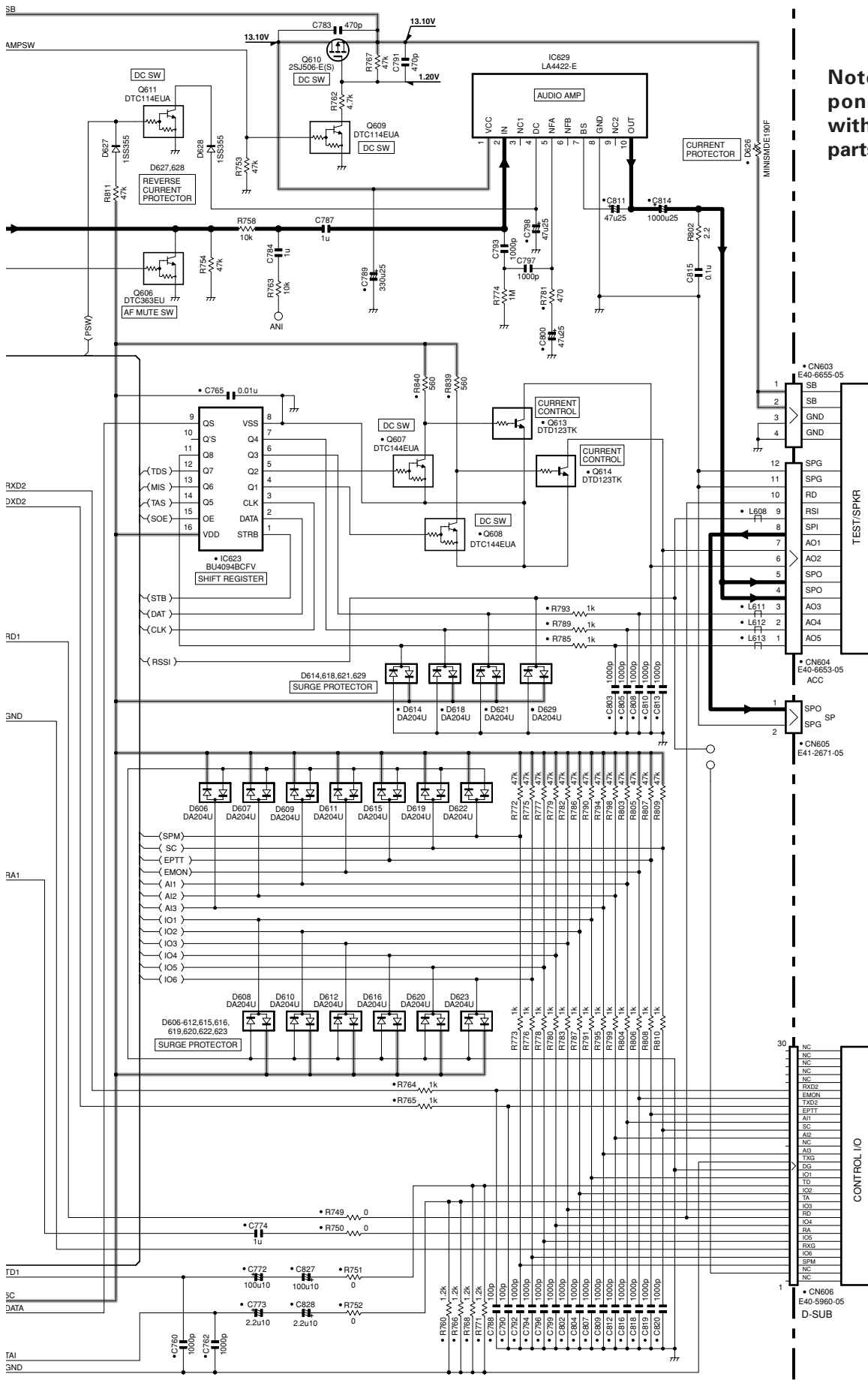
# SCHEMATIC DIAGRAM TKR-751

TX-RX UNIT (X57-695X-XX) (B/2)



# TKR-751 SCHEMATIC DIAGRAM

TX-RX UNIT (X57-695X-XX) (B/2)



Note : The components marked with a dot (•) are parts of layer 1.





# TKR-751

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### Kenwood Electronics Deutschland GmbH

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### Kenwood Electronics Belgium N.V.

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### Kenwood Electronics France S.A.

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### Kenwood Electronics Italia S.p.A.

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### Kenwood Ibérica, S.A.

Bolivia, 239-08020 Barcelona, Spain

### Kenwood Electronics Australia Pty. Ltd.

(A.C.N. 001 499 074)

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### Kenwood Electronics (Hong Kong) Ltd.

Unit 3712-3724, Level 37, Tower one Metroplaza, 223 Hing Fong Road,  
Kwai Fong, N.T., Hong Kong

### Kenwood Electronics Singapore Pte Ltd

1 Ang Mo Kio Street 63, Singapore 569110

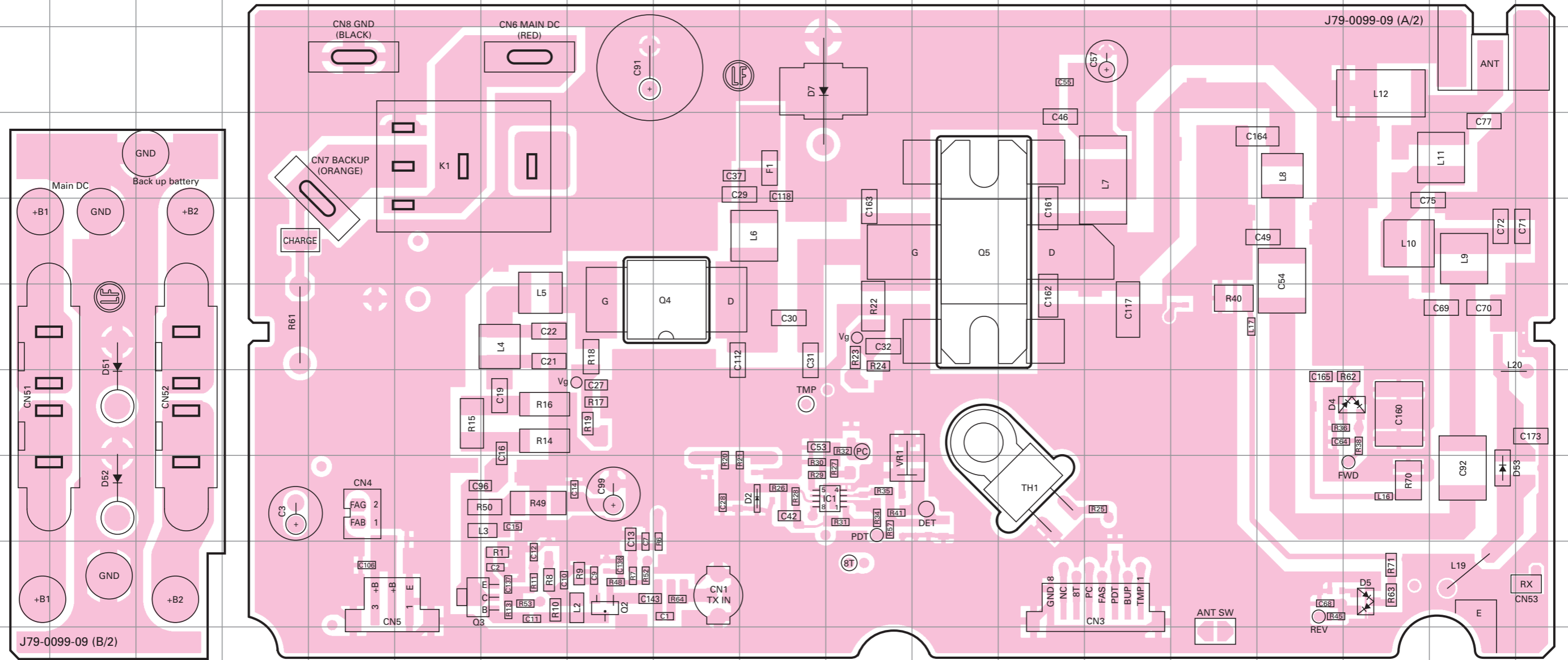


# TKR-751 PC BOARD

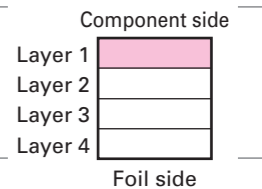
# PC BOARD TKR-751

FINAL UNIT (X45-3732-71) Component side view (J79-0099-09)

FINAL UNIT (X45-3732-71) Component side view (J79-0099-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC1	8K	Q5	5L	D7	3J
Q2	9H	D2	8J	D51	7B
Q3	9F	D4	7Q	D52	8B
Q4	6I	D5	9Q	D53	8R

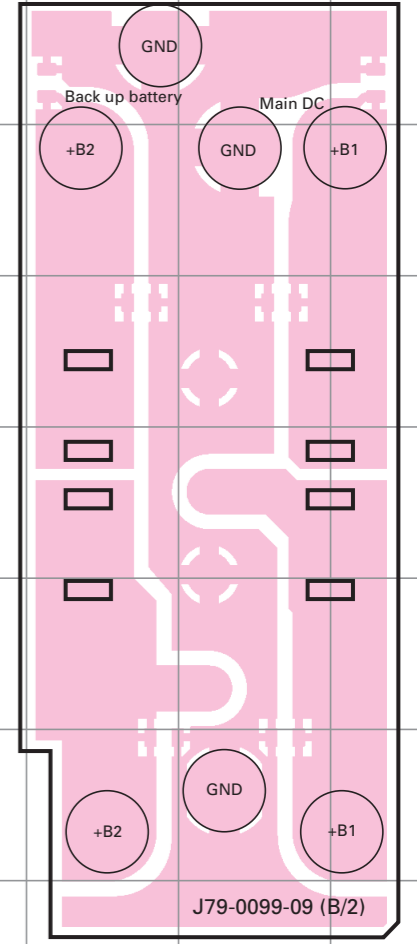
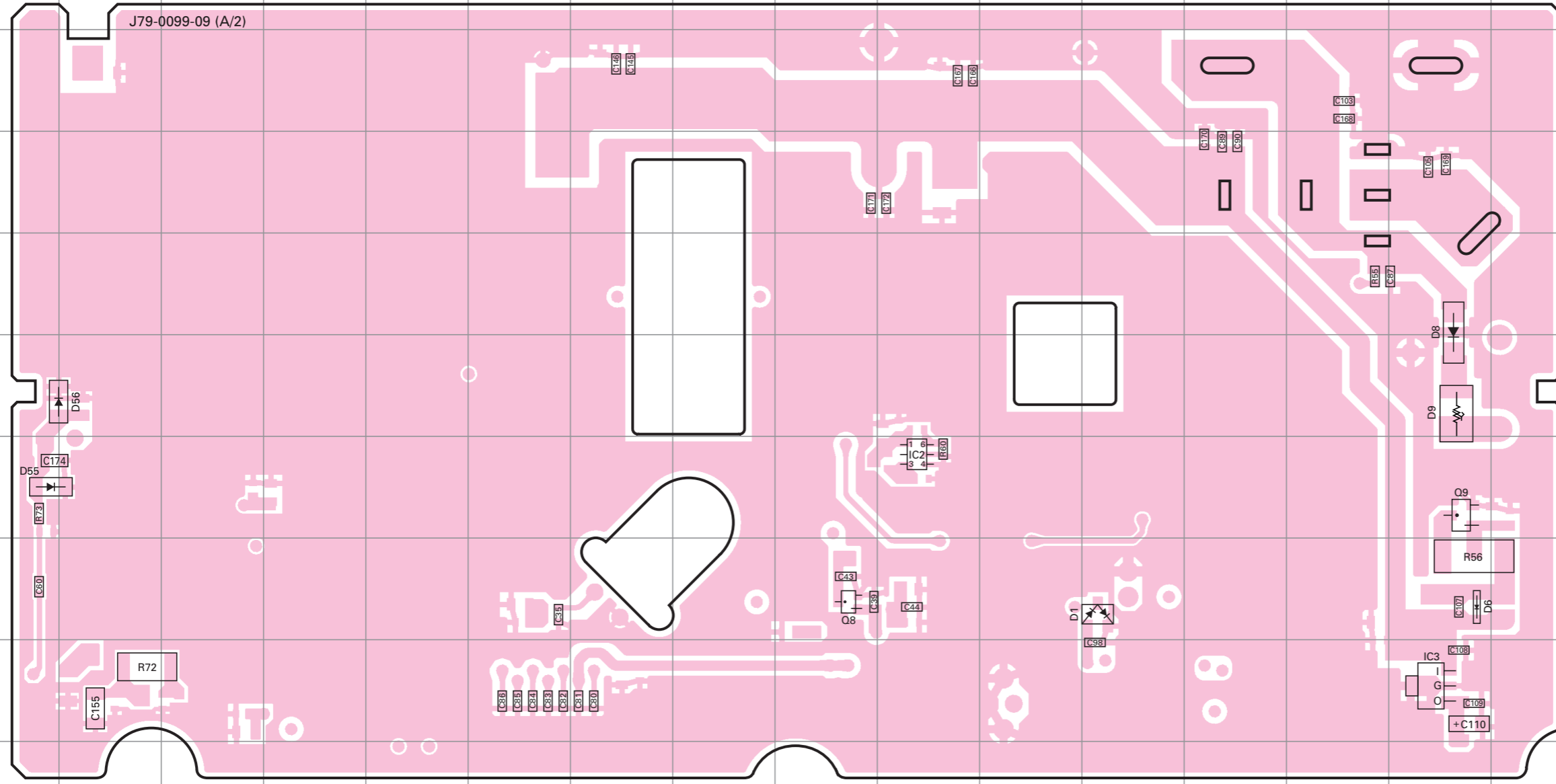


# TKR-751 PC BOARD

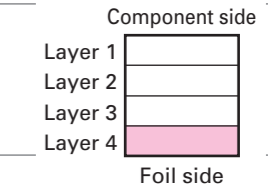
# PC BOARD TKR-751

FINAL UNIT (X45-3732-71) Foil side view (J79-0099-09)

FINAL UNIT (X45-3732-71) Foil side view (J79-0099-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC2	7J	D1	8L	D55	7A
IC3	9O	D6	8O	D56	6B
Q8	8I	D8	5O		
Q9	7O	D9	6O		

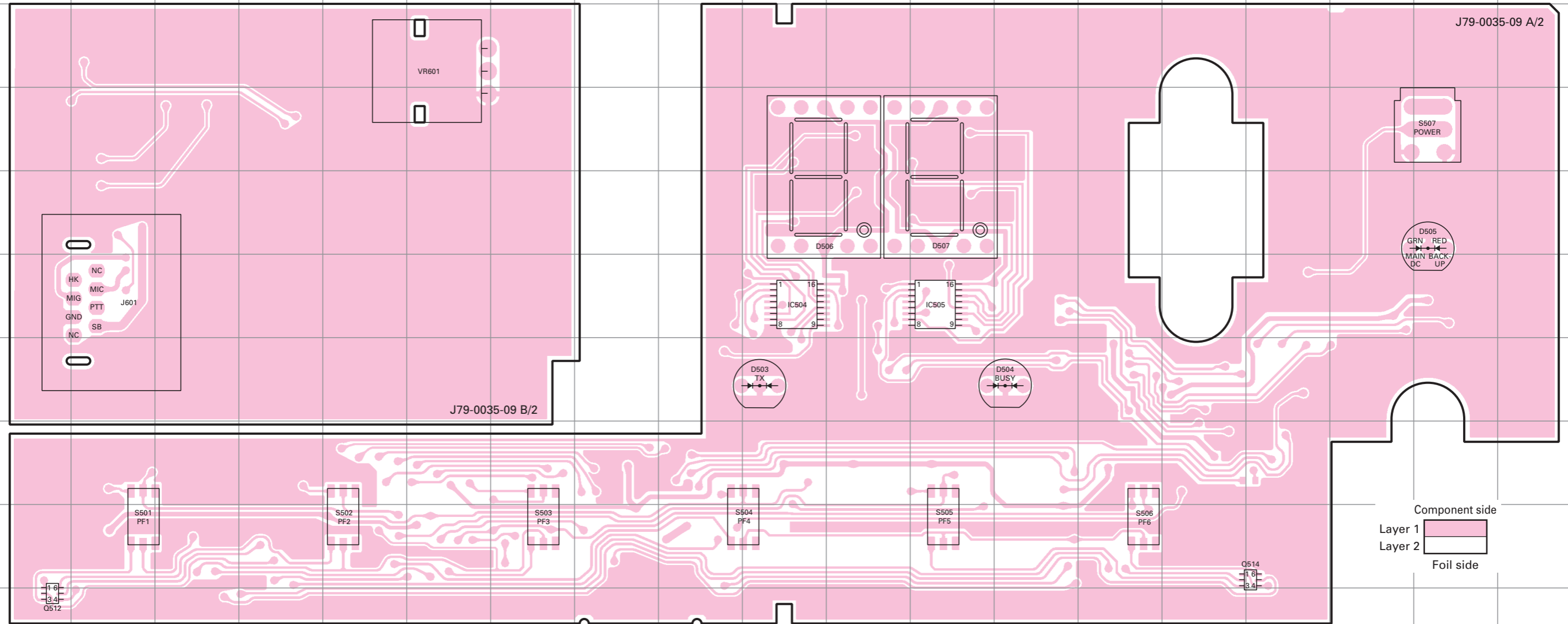


# TKR-751 PC BOARD

# PC BOARD TKR-751

DISPLAY UNIT (X54-3580-20) Component side view (J79-0035-09)

DISPLAY UNIT (X54-3580-20) Component side view (J79-0035-09)



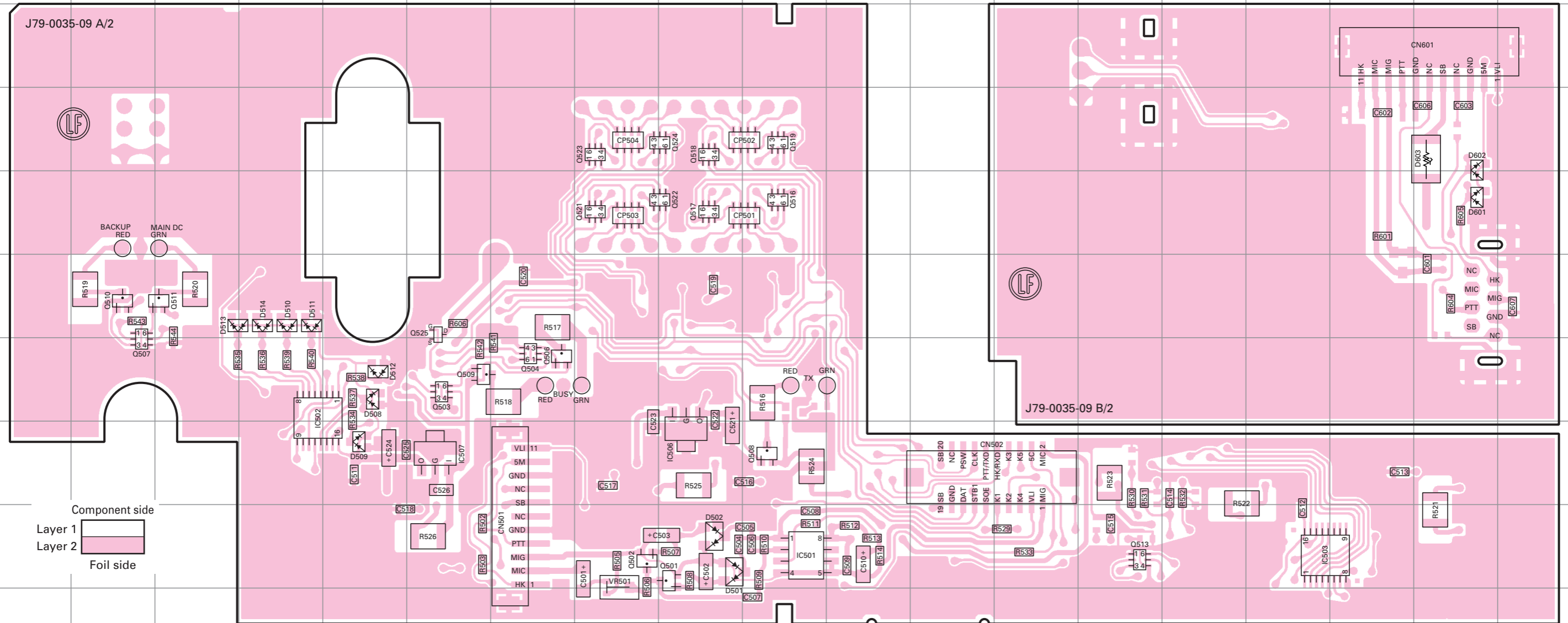
Ref. No.	Address
IC504	6J
IC505	6L
Q512	10A
Q514	9P
D503	7J
D504	7M
D505	5R
D506	5J
D507	5L

# TKR-751 PC BOARD

# PC BOARD TKR-751

DISPLAY UNIT (X54-3580-20) Foil side view (J79-0035-09)

DISPLAY UNIT (X54-3580-20) Foil side view (J79-0035-09)



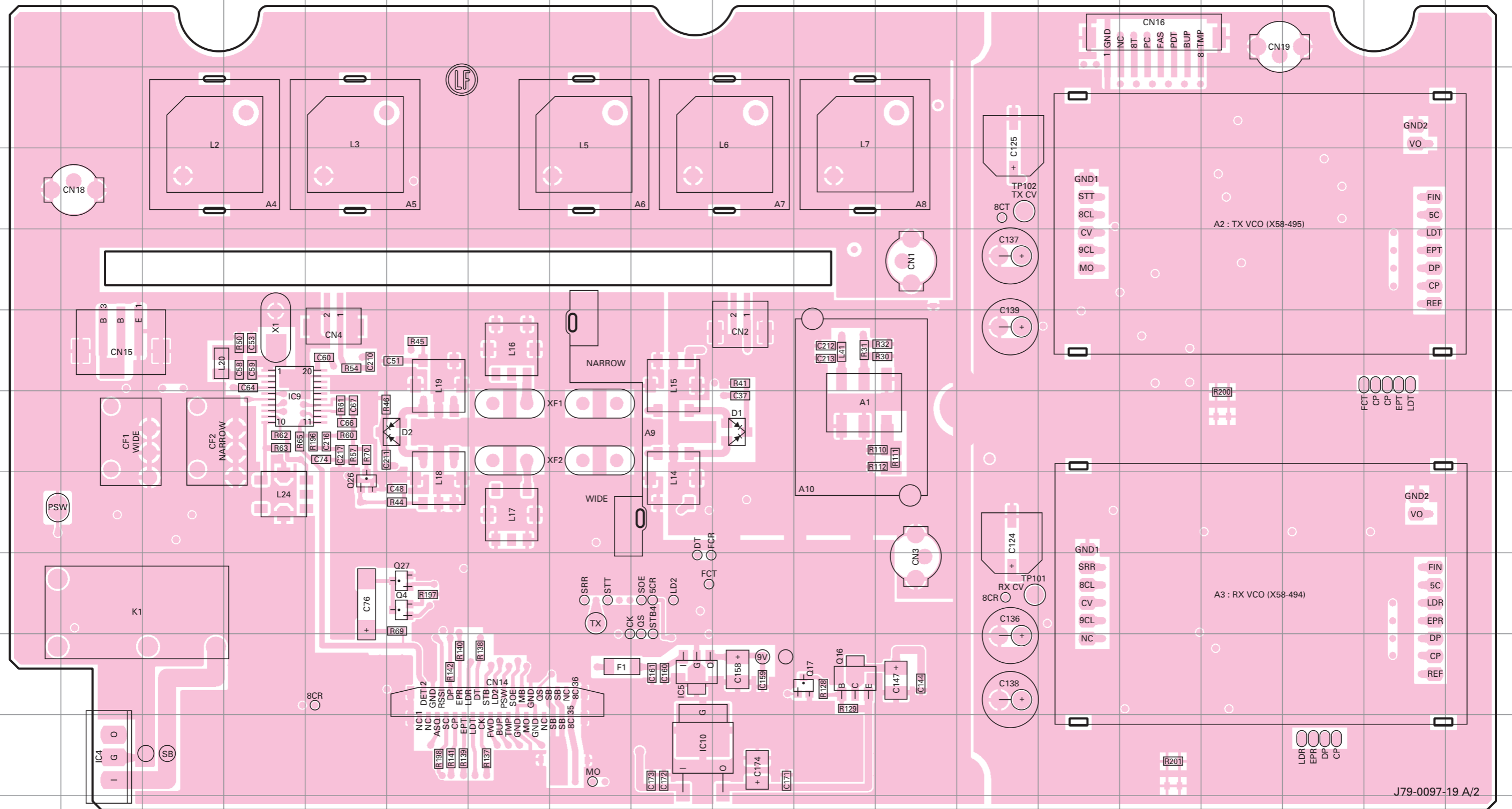
Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC501	9J	Q507	7B	Q521	5H	D511	6D
IC502	7D	Q508	8J	Q522	5I	D512	7E
IC503	9P	Q509	7F	Q523	4H	D513	6C
IC506	8I	Q510	6B	Q524	4I	D514	6D
IC507	8F	Q511	6C	Q525	6F	D601	5R
Q501	9I	Q513	9N	D501	9I	D602	4R
Q502	9H	Q516	5J	D502	9I	D603	4R
Q503	7F	Q517	5I	D508	7E		
Q504	7G	Q518	4I	D509	8E		
Q506	7G	Q519	4J	D510	6D		

# TKR-751 PC BOARD

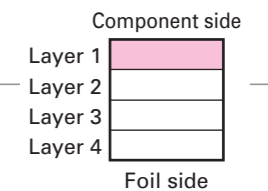
TX-RX UNIT (X57-695X-XX) (A/2) 0-11 : K 2-70 : E  
Component side view (J79-0097-19 A/2)

# PC BOARD TKR-751

TX-RX UNIT (X57-695X-XX) (A/2) 0-11 : K 2-70 : E  
Component side view (J79-0097-19 A/2)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC4	11B	Q4	9F	Q27	9F
IC5	10I	Q16	10K	D1	7J
IC9	7D	Q17	10K	D2	7F
IC10	11I	Q26	8E		



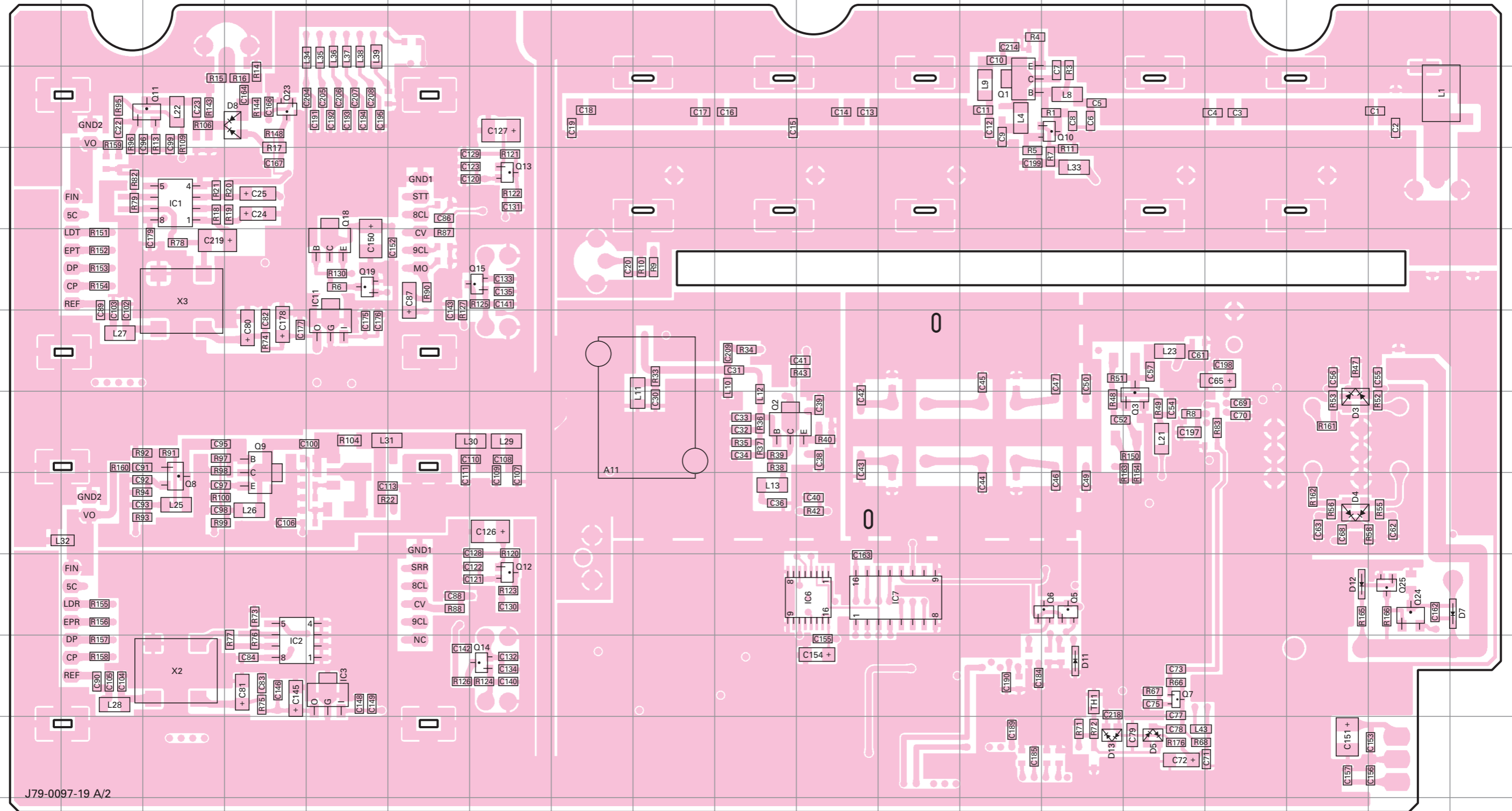
J79-0097-19 A/2

# TKR-751 PC BOARD

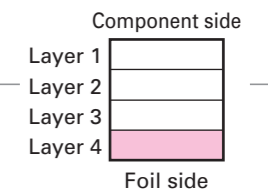
TX-RX UNIT (X57-695X-XX) (A/2) 0-11 : K 2-70 : E  
Foil side view (J79-0097-19 A/2)

# PC BOARD TKR-751

TX-RX UNIT (X57-695X-XX) (A/2) 0-11 : K 2-70 : E  
Foil side view (J79-0097-19 A/2)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC1	4C	Q1	3M	Q8	8C	Q14	10G	Q25	9R	D11	10N
IC2	10D	Q2	7J	Q9	7D	Q15	5G	D3	7Q	D12	9Q
IC3	10E	Q3	7O	Q10	3N	Q18	5E	D4	8Q	D13	11N
IC6	9K	Q5	9N	Q11	3C	Q19	5E	D5	11O		
IC7	9L	Q6	9N	Q12	9G	Q23	3D	D7	9S		
IC11	6E	Q7	10O	Q13	4G	Q24	9R	D8	3D		



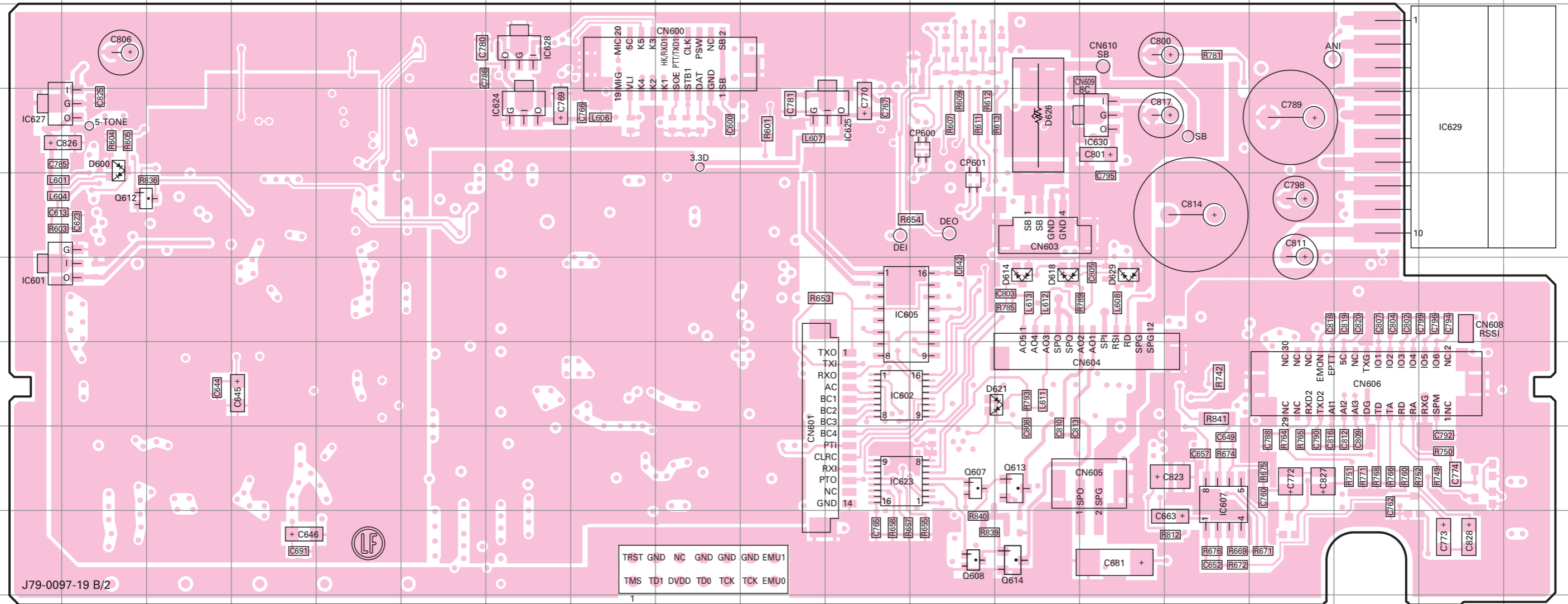


# TKR-751 PC BOARD

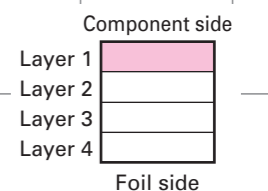
# PC BOARD TKR-751

TX-RX UNIT (X57-695X-XX) (B/2) 0-11 : K 2-70 : E  
Component side view (J79-0097-19 B/2)

TX-RX UNIT (X57-695X-XX) (B/2) 0-11 : K 2-70 : E  
Component side view (J79-0097-19 B/2)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC601	6A	IC628	3G	D600	4B
IC602	7K	IC629	4R	D614	6M
IC605	6K	IC630	4N	D618	6M
IC607	8O	Q607	8L	D621	7M
IC623	8K	Q608	9L	D626	4M
IC624	4G	Q612	5B	D629	6N
IC625	4K	Q613	8M		
IC627	4A	Q614	9M		

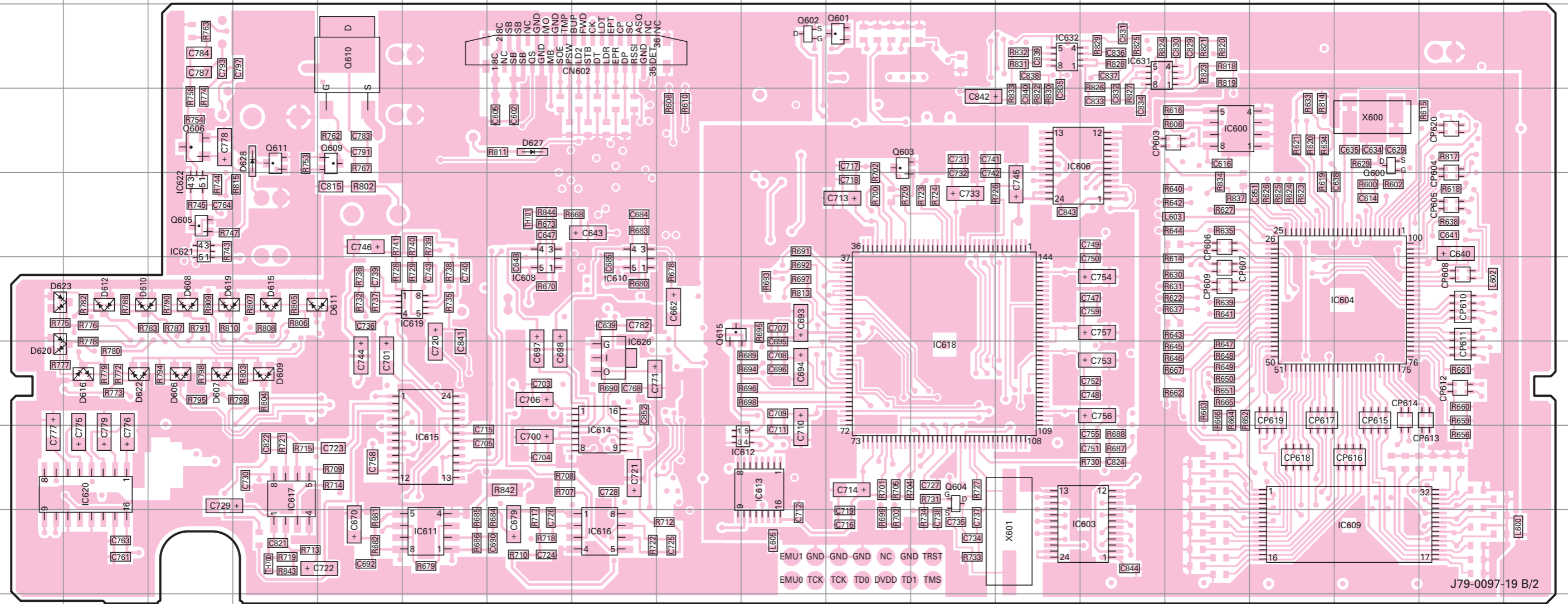


# TKR-751 PC BOARD

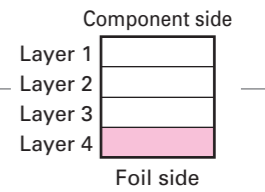
# PC BOARD TKR-751

TX-RX UNIT (X57-695X-XX) (B/2) 0-11 : K 2-70 : E  
Foil side view (J79-0097-19 B/2)

TX-RX UNIT (X57-695X-XX) (B/2) 0-11 : K 2-70 : E  
Foil side view (J79-0097-19 B/2)



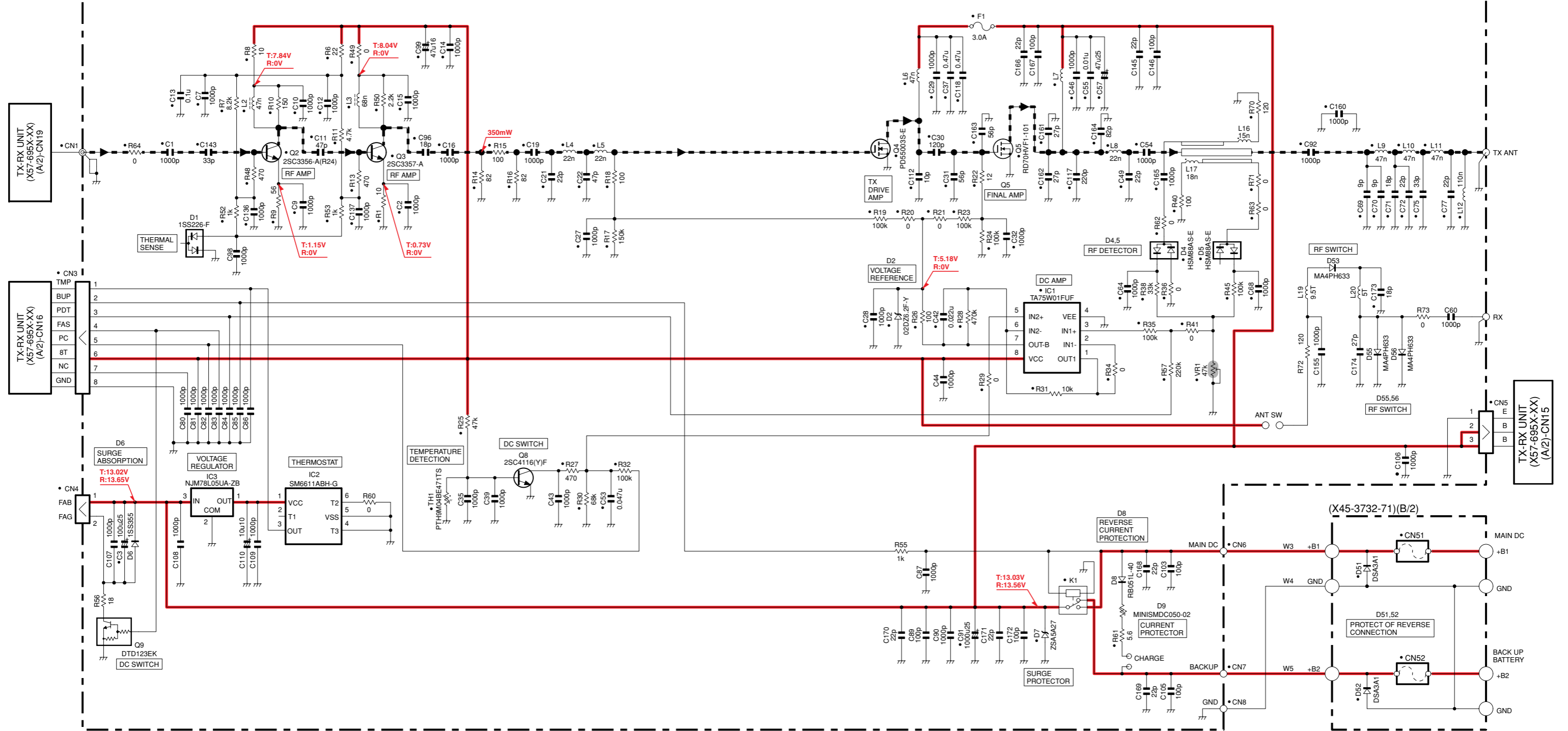
Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC600	4O	IC612	8J	IC620	8B	Q602	3J	Q615	6I	D615	6D
IC603	9N	IC613	8J	IC621	5C	Q603	4K	D606	7C	D616	7B
IC604	6Q	IC614	8H	IC622	5C	Q604	8L	D607	7C	D619	6C
IC606	4M	IC615	8F	IC626	7H	Q605	5C	D608	6C	D620	7A
IC608	6G	IC616	9H	IC631	3N	Q606	4C	D609	7D	D622	7B
IC609	9Q	IC617	8D	IC632	3M	Q609	4E	D610	6B	D623	6A
IC610	6H	IC618	7L	Q600	4Q	Q610	3E	D611	6E	D627	4G
IC611	9F	IC619	6F	Q601	3K	Q611	4D	D612	6B	D628	4D



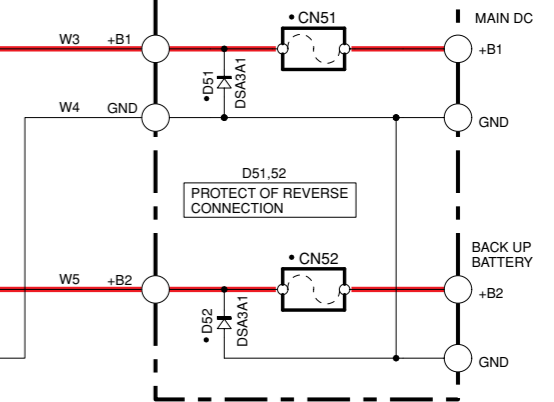




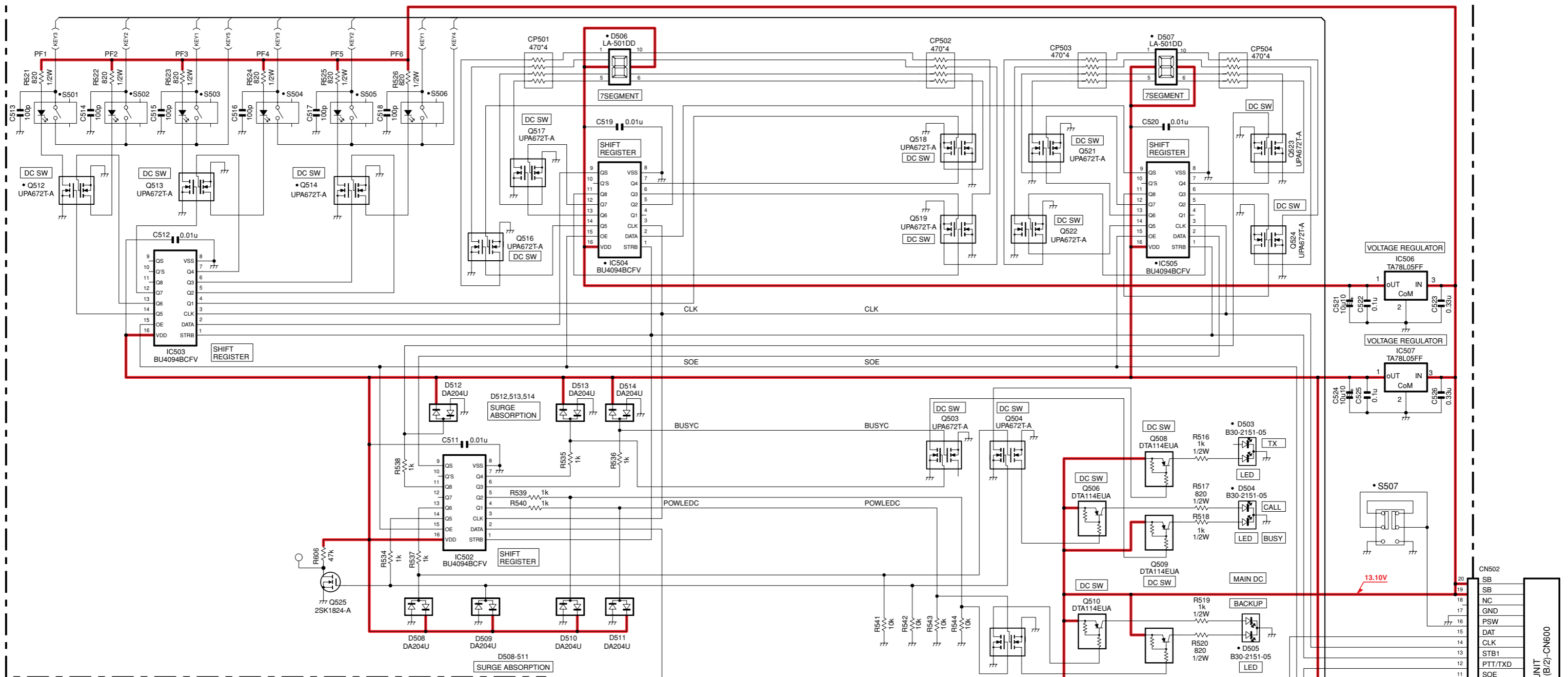
FINAL UNIT  
(X45-3732-71) (A/2)



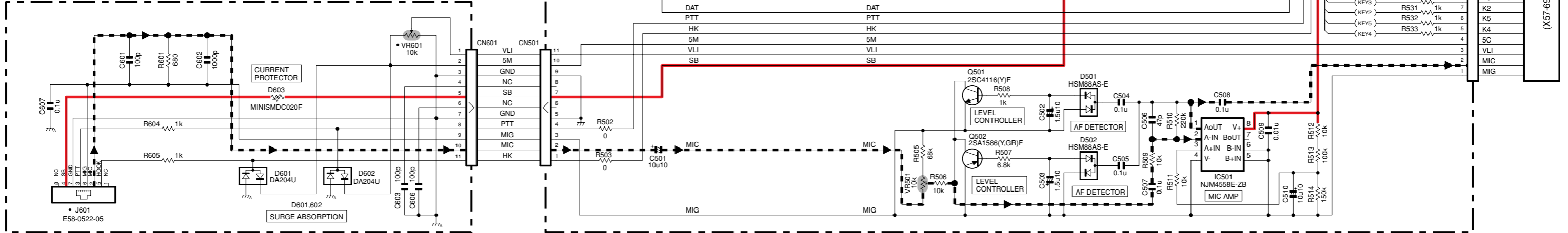
(X45-3732-71)(B/2)

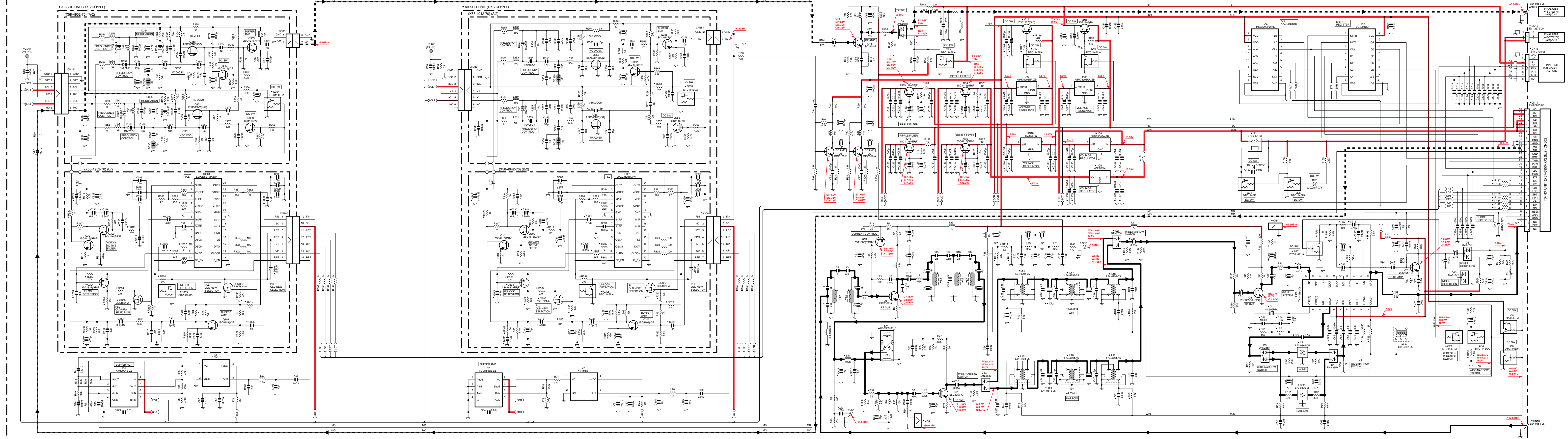


DISPLAY UNIT (X54-3580-20) (A/2)



DISPLAY UNIT (X54-3580-20) (B/2)

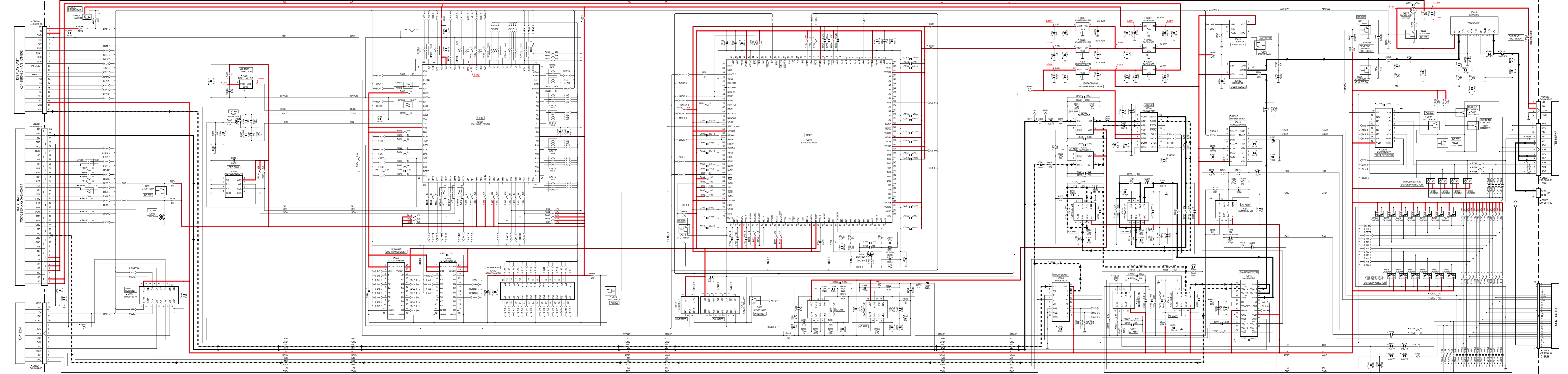




R200 R201  
 C200 C201

X57-695X-XX	X57
2-70	E L71-9627-05
0-11	K L71-9512-05

TX-RX UNIT (X57-995X-XX) (B/P)



DISPLAY UNIT  
(X54-950-20) (A2) CN602

TX-RX UNIT  
(X57-995X-XX) (A2) CN14

OPTION  
CN601 E40-995A-00

CONTROL I/O  
CN606 E40-995C-00  
D-SUB

TESTSPKR  
CN603 E40-995B-05  
ACC  
CN605 E40-995T-05



- |   |                     |               |
|---|---------------------|---------------|
| A | :                   | N09-2292-05   |
| B | M2.6 x 6            | : N30-2606-48 |
| C | M4 x 6              | : N30-4006-48 |
| D | M4 x 14             | : N30-4014-48 |
| E | M4 x 20 BLK         | : N30-4020-43 |
| F | M3 x 6 (F)          | : N32-3006-48 |
| G | M4 x 8 (F) BLK      | : N32-4008-43 |
| J | M3 x 6 (Bi) BLK     | : N35-3006-43 |
| K | M4 x 6 (Bi) BLK     | : N35-4006-43 |
| L | M3 x 8              | : N67-3008-48 |
| M | M2.6 x 8 BLK        | : N80-2608-43 |
| N | M2.6 x 6 (Br-Tap)   | : N87-2606-48 |
| O | M3 x 5 (Br-Tap) BLK | : N87-3005-43 |
| P | M3 x 6 (Br-Tap)     | : N87-3006-48 |
| R | M3 x 14 (TP)        | : N90-3014-48 |

