

TKR-850

SERVICE MANUAL / 维修手册

SUPPLEMENT III / 追补版 III

KENWOOD

Kenwood Corporation

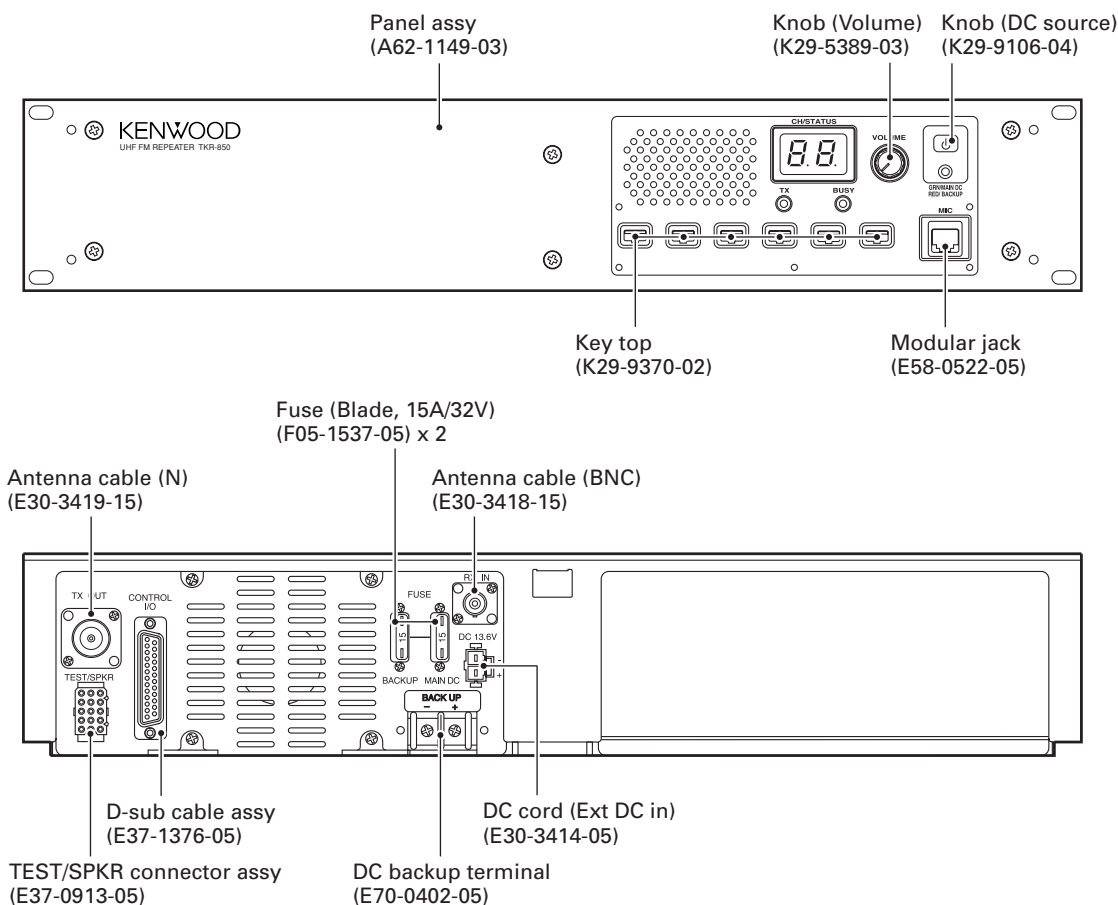
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This service manual is applied from the following serial numbers.

K: 809xxxxx~, K3: 809xxxxx~, E: 801xxxxx~,
C: 809xxxxx~, C3: 809xxxxx~, C6: 809xxxxx~

本维修手册适用于下列序号。

K: 809xxxxx~, K3: 809xxxxx~, E: 801xxxxx~,
C: 809xxxxx~, C3: 810xxxxx~, C6: 809xxxxx~



无铅焊接通信产品  
保护环境建伍领先

⚠ 注意：本产品是无铅化焊接产品
在维修时请使用无铅焊锡
和相应的焊接工具
详细事项请访问如下网址了解：
<http://www.kenwoodhk.com.hk/>



This product uses Lead Free solder.

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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-850	B51-8557-00	First edition Abolition version	K,K2,E	X45-3630-XX J72-0755-02	X54-3330-20 J72-0756-02	X57-6270-XX J72-0758-01	X58-4800-XX J72-0751-02	X58-4810-XX J72-0752-02
TKR-850	B51-8557-10	Revised Correction of first edition	K,K2,K3,E	X45-3630-XX J72-0755-02	X54-3330-20 J72-0756-02	X57-6270-XX J72-0758-11	X58-4800-XX J72-0751-02	X58-4810-XX J72-0752-02
TKR-850	B51-8587-00	Supplement	K,K2,K3,E	Schematic diagram only	-	-	-	-
TKR-850	B51-8557-20	Revised 2	K,K2,K3,E	X45-3630-XX J72-0755-02	X54-3330-20 J72-0756-02	X57-6270-XX J72-0758-11	X58-4800-XX J72-0751-02	X58-4810-XX J72-0752-02
TKR-850	B51-8662-00	Supplement	K,C,E	X45-3740-10 J72-0911-09	-	-	-	-
TKR-850	B51-8676-00	Supplement 2	K,K2,K3, C,C3,C6,E	X45-374X-XX J72-0911-09	-	-	-	-
TKR-850	B51-8557-30	Revised 3	K,K2,K3,E	X45-374X-XX J72-0911-19	X54-3330-21 J72-0756-12	X57-696X-XX J72-0924-19	X58-480X-XX J72-0751-02	X58-481X-XX J72-0752-12
TKR-850	B51-8568-00	First edition	C	X45-3630-10 J72-0755-02	X54-3330-20 J72-0756-02	X57-6270-10 J72-0758-01	X58-4800-10 J72-0751-02	X58-4810-10 J72-0752-02
TKR-850	B51-8568-10	Revised	C,C3,C6	X45-363X-XX J72-0755-02	X54-3330-20 J72-0756-02	X57-627X-XX J72-0758-11	X58-480X-XX J72-0751-02	X58-481X-XX J72-0752-02
TKR-850	B51-8568-20	Revised 2	C,C3,C6	X45-374X-XX J72-0911-19	X54-3330-21 J72-0756-12	X57-696X-XX J72-0924-19	X58-480X-XX J72-0751-02	X58-481X-XX J72-0752-12
TKR-850	B51-8789-00	Supplement 3 This service manual	K,K3,E C,C3,C6	X45-374X-XX J79-0100-09	X54-3580-20 J79-0035-09	X57-696X-XX J79-0102-19	X58-496X-XX J79-0040-09	X58-497X-XX J79-0041-09

PARTS LIST / 零件表

* New Parts. Δ 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-850 (Y54-319X-XX) FINAL UNIT (X45-374X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation		
TKR-850													
1	2B		A10-4037-21	CHASSIS		56	3B		G10-1344-04	FIBROUS SHEET			
5	3A		A62-0933-13	PANEL ASSY		58	3B		G10-1345-04	FIBROUS SHEET			
2	1B		A62-1146-04	PANEL		78	2B	*	G11-4367-04	SHEET			
3	1B		A62-1147-04	PANEL		48	1F		G13-1801-04	CUSHION	ACCESSORY		
4	1D		A62-1148-03	PANEL		49	1F		G13-1802-04	CUSHION	ACCESSORY		
6	3C		A62-1149-03	PANEL ASSY		50	2B	*	G13-1886-04	CUSHION			
8	1F		B10-2635-04	FRONT GLASS	ACCESSORY	76	2C		G13-2054-04	CUSHION			
9	1F		B11-1259-04	FILTER	ACCESSORY	72	3A		G13-2171-04	CUSHION (SPEAKER)			
10	3B	*	B42-7160-04	STICKER (MODEL NAME)		52	1E		H25-0029-04	PROTECTION BAG (60/110/0.07)			
11	1F		B62-1835-00	INSTRUCTION MANUAL	K,K3	53	1F		H25-0747-04	PROTECTION BAG (250X350)			
11	1F		B62-1836-00	INSTRUCTION MANUAL	C,C3,C6	54	1E		H25-0762-04	PROTECTION BAG (120X300)			
11	1F		B62-1837-00	INSTRUCTION MANUAL	E	55	1F		H25-2328-04	PROTECTION BAG (80/250/0.07)			
12	2C,3D	*	B72-2301-04	MODEL NAME-PLATE	K	57	3F		H52-1779-02	ITEM CARTON CASE			
12	2C,3D	*	B72-2303-04	MODEL NAME-PLATE	E	59	1E		J02-0475-05	FOOT	ACCESSORY		
12	2C,3D	*	B72-2304-04	MODEL NAME-PLATE	C	60	1E		J02-0492-04	FOOT	ACCESSORY		
12	2C,3D	*	B72-2305-04	MODEL NAME-PLATE	K3	64	1B	*	J21-8467-04	MOUNTING HARDWARE (DRIVE FET)			
12	2C,3D	*	B72-2306-04	MODEL NAME-PLATE	C3	73	3A		J21-8556-04	MOUNTING HARDWARE (SPEAKER)			
12	2C,3D	*	B72-2307-04	MODEL NAME-PLATE	C6	74	3A		J21-8557-04	MOUNTING HARDWARE (SPEAKER)			
14	2C		E30-3414-05	DC CORD (EXT DC IN)		61	1F		J21-8559-04	MOUNTING HARDWARE	ACCESSORY		
15	1C		E30-3418-15	ANTENNA CABLE (BNC)		62	1E		J59-0302-05	GROMMET	ACCESSORY		
16	2C		E30-3419-15	ANTENNA CABLE (N)		-			J61-0307-05	BAND			
17	1E		E30-3427-25	DC CORD	ACCESSORY	65	1E		K01-0418-15	HANDLE	ACCESSORY		
18	1E		E31-3228-05	TES/SPKR PLUG	ACCESSORY	66	3A		K29-5389-03	KNOB (VOLUME)			
19	1B		E37-0902-05	DC WIRE (RED)		68	3A		K29-9106-04	KNOB (DC SOURCE)			
20	1B		E37-0903-05	DC WIRE (BLACK)		67	3A		K29-9370-02	KEY TOP			
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		F05-1537-05	FUZE (BLADE TYPE) (15A/32V)		P	3A,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/RX COMP SIDE)		FINAL UNIT (X45-374X-XX) 0-10: K,E,C 0-12: K3,C3 3-01: C6							
-			F10-2409-04	SHIELDING CASE (TX/RX FOIL SIDE)		C1			CC73GCH1H100D	CHIP C	10PF	D	K3,C3,C6
41	1C		F20-3322-04	INSULATING SHEET (BACKUP)		C1			CK73GB1H471K	CHIP C	470PF	K	K,E,C
43	1B,2B		G02-0576-14	FLAT SPRING		C3		*	CD04AY1E101M	ELECTRO	100UF	25WV	
42	2B		G02-0729-14	FLAT SPRING		C6 ,7			CK73GB1H471K	CHIP C	470PF	K	
44	2B		G02-0829-14	FLAT SPRING		C8			CC73GCH1H080D	CHIP C	8.0PF	D	K,E,C
45	3B		G02-0885-13	EARTH SPRING		C8			CC73GCH1H100D	CHIP C	10PF	D	K3,C3,C6
51	1B		G02-0894-04	EARTH SPRING (FINAL FET)		C10			CK73GB1H471K	CHIP C	470PF	K	
46	2B,3B		G10-1263-04	FIBROUS SHEET (CHASSIS)		C12 -15			CK73GB1H471K	CHIP C	470PF	K	
47	3C,2D		G10-1264-04	FIBROUS SHEET (FINAL)									

PARTS LIST / 零件表

FINAL UNIT (X45-374X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C17			CC73GCH1H050C	CHIP C 5.0PF C	K,E,C	C78			CK73GB1H471K	CHIP C 470PF K	
C17			CC73GCH1H560J	CHIP C 56PF J	K3,C3,C6	C79			CK73FB1E104K	CHIP C 0.10UF K	
C18, 19			CK73GB1H471K	CHIP C 470PF K		C80			C92-0777-05	ELECTRO 1000UF 25WV	
C20			CK73FB1H471K	CHIP C 470PF K		C81			CM73F2H820J	CHIP C 82PF J	
C21			CC73FCH1H120J	CHIP C 12PF J	K,E,C	C83			C93-0556-05	CHIP C 6.0PF D	K,E,C
C21			CC73FCH1H220J	CHIP C 22PF J	K3,C3,C6	C83			C93-0557-05	CHIP C 7.0PF D	K3,C3
C22			CC73FCH1H060D	CHIP C 6.0PF D	K,E,C	C83			C93-0560-05	CHIP C 10PF D	C6
C22			CC73FCH1H120J	CHIP C 12PF J	K3,C3,C6	C86			C93-0560-05	CHIP C 10PF D	K,E,C
C23			CK73FB1H471K	CHIP C 470PF K		C86			C93-0561-05	CHIP C 12PF J	K3,C3
C24		*	C90-5640-05	ELECTRO 100UF 16WV		C86			C93-0563-05	CHIP C 18PF J	C6
C25			CK73FB1E104K	CHIP C 0.10UF K	C6	C88			C93-0556-05	CHIP C 6.0PF D	K3,C3
C26			CC73GCH1H101J	CHIP C 100PF J	K3,C3,C6	C89			C93-0555-05	CHIP C 5.0PF C	K,E,C
C26			CC73GCH1H471J	CHIP C 470PF J	K,E,C	C89			C93-0560-05	CHIP C 10PF D	C6
C27			CK73GB1H471K	CHIP C 470PF K		C91 -98			CK73GB1H471K	CHIP C 470PF K	
C28			CK73FB1E104K	CHIP C 0.10UF K		C99			CK73FB1E104K	CHIP C 0.10UF K	
C29			CK73GB1H471K	CHIP C 470PF K		C100-102			CK73GB1H471K	CHIP C 470PF K	
C30			CK73FB1E224K	CHIP C 0.22UF K		C103			CS77AA1A100M	CHIP TINTL 10UF 10WV	
C31			C93-0599-05	CHIP C 470PF K		C104			CC73GCH1H101J	CHIP C 100PF J	
C32			C93-0558-05	CHIP C 8.0PF D	K,E,C	C105			CK73GB1H471K	CHIP C 470PF K	
C32			C93-0558-05	CHIP C 8.0PF D	K3,C3	C106			CK73FB1E104K	CHIP C 0.10UF K	
C32			C93-0560-05	CHIP C 10PF D	C6	C107			CC73GCH1H101J	CHIP C 100PF J	
C33, 34			C93-0565-05	CHIP C 27PF J	K,E,C	C108			CK73FB1E104K	CHIP C 0.10UF K	
C33, 34			C93-0567-05	CHIP C 39PF J	K3,C3	C109			CC73GCH1H101J	CHIP C 100PF J	
C33, 34			C93-0568-05	CHIP C 47PF J	C6	C112			CK73GB1H471K	CHIP C 470PF K	
C35			C93-0599-05	CHIP C 470PF K		C113			CK73FB1E104K	CHIP C 0.10UF K	
C36			CK73FB1E104K	CHIP C 0.10UF K		C114			CK73GB1H471K	CHIP C 470PF K	
C38			CK73GB1H471K	CHIP C 470PF K		C115			CK73FB1E104K	CHIP C 0.10UF K	
C39			C93-0561-05	CHIP C 12PF J	K,E,C	C116			CK73GB1H471K	CHIP C 470PF K	
C39			C93-0563-05	CHIP C 18PF J	K3,C3	C117			CK73FB1E104K	CHIP C 0.10UF K	
C39			C93-0564-05	CHIP C 22PF J	C6	C118			C93-0554-05	CHIP C 4.0PF C	K,E,C
C40			C93-0564-05	CHIP C 22PF J	K,E,C	C119			CK73GB1H471K	CHIP C 470PF K	K,E,C
C41			C93-0599-05	CHIP C 470PF K		C120			CK73FB1H223K	CHIP C 0.022UF K	
C42			CC73FCH1H220J	CHIP C 22PF J		C121,122			CM73F2H150J	CHIP C 15PF J	K,E,C
C43			CM73F2H220J	CHIP C 22PF J	K,E,C	C121,122			CM73F2H180J	CHIP C 18PF J	K3,C3
C43			CM73F2H220J	CHIP C 22PF J	K3,C3	C121,122			CM73F2H220J	CHIP C 22PF J	C6
C43			CM73F2H390J	CHIP C 39PF J	C6	C123,124			CM73F2H220J	CHIP C 22PF J	K,E,C
C44			C93-0556-05	CHIP C 6.0PF D	K,E,C	C123,124			CM73F2H270J	CHIP C 27PF J	K3,C3,C6
C44			C93-0560-05	CHIP C 10PF D	K3,C3,C6	C155			C93-0599-05	CHIP C 470PF K	
C46			C93-0599-05	CHIP C 470PF K		C157			CK73GB1H471K	CHIP C 470PF K	
C48			CK73GB1H471K	CHIP C 470PF K		C160			CM73F2H820J	CHIP C 82PF J	
C49			CC73GCH1H101J	CHIP C 100PF J		C161			CC73GCH1H220J	CHIP C 22PF J	
C50			CK73FB1E104K	CHIP C 0.10UF K		C165,166			CK73FB1H471K	CHIP C 470PF K	
C51			CD04AY1E470M	ELECTRO 47UF 25WV		C167,168			CC73GCH1H220J	CHIP C 22PF J	
C52			CC73GCH1H101J	CHIP C 100PF J		C169			CC73FCH1H560J	CHIP C 56PF J	
C53			CK73FB1E104K	CHIP C 0.10UF K		C170-172			CC73GCH1H220J	CHIP C 22PF J	
C54		*	CD04AY1E101M	ELECTRO 100UF 25WV		C173,174			CC73FCH1H220J	CHIP C 22PF J	
C55			C93-0599-05	CHIP C 470PF K		C177			CC73FCH1H150J	CHIP C 15PF J	
C56			CC73FCH1H220J	CHIP C 22PF J		C178			C93-0553-05	CHIP C 3.0PF C	K,E,C
C59			CM73F2H100D	CHIP C 10PF D	K,E,C	C178			C93-0553-05	CHIP C 3.0PF C	K3,C3
C59			CM73F2H120J	CHIP C 12PF J	K3,C3	C178			C93-0555-05	CHIP C 5.0PF C	C6
C59			CM73F2H270J	CHIP C 27PF J	C6	C179			CC73FCH1H030C	CHIP C 3.0PF C	
C60			C93-0558-05	CHIP C 8.0PF D	K3,C3	CN1			E04-0154-05	PIN SOCKET	
C60			C93-0560-05	CHIP C 10PF D	C6	CN3			E41-2738-05	PIN ASSY	
C61			CM73F2H820J	CHIP C 82PF J		CN4			E41-1682-05	PIN ASSY	
C68			CK73GB1H471K	CHIP C 470PF K		CN5			E41-2672-05	PIN ASSY	
C69			CC73GCH1H101J	CHIP C 100PF J		CN6 -8			E23-0462-05	TERMINAL	
C70			CK73FB1E104K	CHIP C 0.10UF K		F1			F53-0392-05	FUSE (3A/32V)	
C71, 72			CK73GB1H471K	CHIP C 470PF K		CN51,52			J13-0071-05	FUSE HOLDER	
C75			CK73GB1H471K	CHIP C 470PF K							
C77			CC73GCH1H101J	CHIP C 100PF J							

PARTS LIST / 零件表

FINAL UNIT (X45-374X-XX)
DISPLAY UNIT (X54-3580-20)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
L1			L40-1075-92	SMALL FIXED INDUCTOR (10NH)	K,E,C	R44			RK73FB2B000J	CHIP R 0.0 J 1/8W	
L1			L40-3963-92	SMALL FIXED INDUCTOR (3.9NH)	K3,C3,C6	R45			RK73GB2A223J	CHIP R 22K J 1/10W	
L2			L41-1075-33	SMALL FIXED INDUCTOR (0.01UH)	K,E,C	R46			RK73GB2A000J	CHIP R 0.0 J 1/10W	K3,C3,C6
L2			L41-2775-33	SMALL FIXED INDUCTOR (0.027UH)	K3,C3,C6	R46			RK73GB2A471J	CHIP R 470 J 1/10W	K,E,C
L3			L40-1875-92	SMALL FIXED INDUCTOR (18NH)	K,E,C	R47			RK73GB2A222J	CHIP R 2.2K J 1/10W	K,E,C
L3			L40-8265-92	SMALL FIXED INDUCTOR (8.2NH)	K3,C3,C6	R47			RK73GB2A332J	CHIP R 3.3K J 1/10W	K3,C3,C6
L5		*	L41-6865-47	SMALL FIXED INDUCTOR (6.8NH)		R48			RK73GB2A471J	CHIP R 470 J 1/10W	
L6 ,7			L34-4517-05	AIR-CORE COIL		R49		*	RK73RB2H000J	CHIP R 0.0 J 1/2W	
L9			L34-4517-05	AIR-CORE COIL		R50			R92-1317-05	CHIP R 18 J 1W	
L11			L34-4517-05	AIR-CORE COIL		R54			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L12			L34-4523-05	AIR-CORE COIL		R55			RK73GB2A474J	CHIP R 470K J 1/10W	
L14			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)	K,E,C	R56			RK73GB2A473J	CHIP R 47K J 1/10W	
L14 ,15			L41-1075-33	SMALL FIXED INDUCTOR (0.01UH)	K3,C3,C6	R57			RK73GB2A471J	CHIP R 470 J 1/10W	
L15			L41-1075-33	SMALL FIXED INDUCTOR (0.01UH)	K,E,C	R58			RK73GB2A474J	CHIP R 470K J 1/10W	
L16			L40-1075-92	SMALL FIXED INDUCTOR (10NH)		R59			RK73GB2A000J	CHIP R 0.0 J 1/10W	
L17			L40-1875-92	SMALL FIXED INDUCTOR (18NH)		R60			RK73GB2A103J	CHIP R 10K J 1/10W	
L19			L34-4667-05	AIR-CORE COIL		R61			R92-3613-05	RESISTOR 5.6 5W	
L20			L34-4758-05	AIR-CORE COIL		R62			RK73GB2A103J	CHIP R 10K J 1/10W	
R1			RK73GB2A103J	CHIP R 10K J 1/10W		R70			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R2			RK73GB2A222J	CHIP R 2.2K J 1/10W	K,E,C	R71		*	RK73RB2H121J	CHIP R 120 J 1/2W	
R2			RK73GB2A472J	CHIP R 4.7K J 1/10W	K3,C3,C6	R72			RK73GB2A184J	CHIP R 180K J 1/10W	
R3			RK73GB2A470J	CHIP R 47 J 1/10W		R73			R92-1204-05	CHIP R 100 J 1/4W	
R4			RK73GB2A100J	CHIP R 10 J 1/10W	K3,C3,C6	R77			RK73GB2A154J	CHIP R 150K J 1/10W	
R4			RK73GB2A220J	CHIP R 22 J 1/10W	K,E,C	VR1			R12-6429-05	TRIMMING POT. (100K)	
R6			RK73GB2A100J	CHIP R 10 J 1/10W	K3,C3,C6	K1			S76-0426-05	RELAY	
R6			RK73GB2A470J	CHIP R 47 J 1/10W	K,E,C	D2			Q2DZ6.2F-Y	ZENER DIODE	
R7			RK73GB2A682J	CHIP R 6.8K J 1/10W		D4 ,5			HSM88AS-E	DIODE	
R8			RK73FB2B100J	CHIP R 10 J 1/8W		D7			ZSA5A27	ZENER DIODE	
R9			RK73FB2B220J	CHIP R 22 J 1/8W		D8			RB051L-40	DIODE	
R11			RK73GB2A104J	CHIP R 100K J 1/10W	K,E,C	D9		*	MINISMD C05002F	VARISTOR	
R11			RK73GB2A333J	CHIP R 33K J 1/10W	K3,C3,C6	D10			1SS355	DIODE	
R12			RK73GB2A153J	CHIP R 15K J 1/10W	K3,C3,C6	D51 ,52			DSA3A1	DIODE	
R12			RK73GB2A183J	CHIP R 18K J 1/10W	K,E,C	D53			MA4PH633	DIODE	
R13			RK73FB2B220J	CHIP R 22 J 1/8W	K3,C3,C6	D55 ,56			MA4PH633	DIODE	
R13			RK73FB2B470J	CHIP R 47 J 1/8W	K,E,C	IC1			SM6611ABH-G	ANALOGUE IC	
R14		*	RK73RB2H102J	CHIP R 1.0K J 1/2W	K,E,C	IC2			NJM78L05UA-ZB	BI-POLAR IC	
R14		*	RK73RB2H181J	CHIP R 180 J 1/2W	C6	IC3			TA75W01FUJ	MOS-IC	
R14		*	RK73RB2H271J	CHIP R 270 J 1/2W	K3,C3	Q1			2SC5110-F(O)	TRANSISTOR	
R15		*	RK73RB2H180J	CHIP R 18 J 1/2W	K3,C3	Q2			2SC3356-A(R24)	TRANSISTOR	
R15		*	RK73RB2H330J	CHIP R 33 J 1/2W	C6	Q3			2SK2596-E	FET	
R15		*	RK73RB2H5R6J	CHIP R 5.6 J 1/2W	K,E,C	Q4	1B	*	PD55008S-E	FET	
R16		*	RK73RB2H102J	CHIP R 1.0K J 1/2W	K,E,C	Q5	1B	*	RD60HUF1-101	FET	
R16		*	RK73RB2H181J	CHIP R 180 J 1/2W	C6	Q8			2SC4116(Y)F	TRANSISTOR	
R16		*	RK73RB2H271J	CHIP R 270 J 1/2W	K3,C3	Q9			DTD123EK	DIGITAL TRANSISTOR	
R17			RK73FB2B154J	CHIP R 150K J 1/8W		TH1	1B		PTH9M04BE471TS	THERMISTOR	
R18			RK73EB2E101J	CHIP R 100 J 1/4W		DISPLAY UNIT (X54-3580-20)					
R19			RK73FB2B104J	CHIP R 100K J 1/8W		D503-505			B30-2151-05	LED (RED/GREEN)	
R20 ,21			RK73GB2A000J	CHIP R 0.0 J 1/10W		C501			CS77AA1A100M	CHIP TNTL 10UF 10WV	
R22			RK73RB2H471J	CHIP R 470 J 1/2W		C502,503			CS77AA1A1R5M	CHIP TNTL 1.5UF 10WV	
R23 ,24			RK73FB2B104J	CHIP R 100K J 1/8W		C504,505			CK73GB1C104K	CHIP C 0.10UF K	
R26			RK73GB2A101J	CHIP R 100 J 1/10W		C506			CC73GCH1H470J	CHIP C 47PF J	
R31			RK73GB2A224J	CHIP R 220K J 1/10W		C507,508			CK73GB1C104K	CHIP C 0.10UF K	
R34			RK73GB2A000J	CHIP R 0.0 J 1/10W		C509			CK73GB1H103K	CHIP C 0.010UF K	
R35			RK73GB2A104J	CHIP R 100K J 1/10W		C510			CS77AA1A100M	CHIP TNTL 10UF 10WV	
R36			RK73GB2A000J	CHIP R 0.0 J 1/10W		C511,512			CK73GB1E103K	CHIP C 0.010UF K	
R37			RK73FB2B000J	CHIP R 0.0 J 1/8W		C513-518			CC73GCH1H101J	CHIP C 100PF J	
R38			RK73GB2A473J	CHIP R 47K J 1/10W							
R40			R92-1204-05	CHIP R 100 J 1/4W							
R41 ,42			RK73GB2A000J	CHIP R 0.0 J 1/10W							

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

PARTS LIST / 零件表

DISPLAY UNIT (X54-3580-20)

TX-RX UNIT (X57-696X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
C519,520			CK73GB1E103K	CHIP C 0.010UF K	
C521			CS77AA1A100M	CHIP TNTL 10UF 10WV	
C522			CK73GB1C104K	CHIP C 0.10UF K	
C523			CK73FB1E334K	CHIP C 0.33UF K	
C524			CS77AA1A100M	CHIP TNTL 10UF 10WV	
C525			CK73GB1C104K	CHIP C 0.10UF K	
C526			CK73FB1E334K	CHIP C 0.33UF K	
C601			CC73GCH1H101J	CHIP C 100PF J	
C602			CK73GB1H102K	CHIP C 1000PF K	
C603			CC73GCH1H101J	CHIP C 100PF J	
C606			CC73GCH1H101J	CHIP C 100PF J	
C607			CK73GB1C104K	CHIP C 0.10UF K	
CN501			E41-2743-05	PIN ASSY	
CN502			E40-6102-05	PIN ASSY	
CN601			E41-2751-05	PIN ASSY	
J601			E58-0522-05	MODULAR JACK	
-			J31-0543-05	COLLAR	
CP501-504			RK75GB1J471J	CHIP-COM 470 J 1/16W	
R502,503			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R505			RK73GB2A683J	CHIP R 68K J 1/10W	
R506			RK73GB2A103J	CHIP R 10K J 1/10W	
R507			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R508			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R509			RK73GB2A103J	CHIP R 10K J 1/10W	
R510			RK73GB2A224J	CHIP R 220K J 1/10W	
R511,512			RK73GB2A103J	CHIP R 10K J 1/10W	
R513			RK73GB2A104J	CHIP R 100K J 1/10W	
R514			RK73GB2A154J	CHIP R 150K J 1/10W	
R516			RK73PB2H102J	CHIP R 1.0K J 1/2W	
R517			RK73PB2H821J	CHIP R 820 J 1/2W	
R518,519			RK73PB2H102J	CHIP R 1.0K J 1/2W	
R520-526			RK73PB2H821J	CHIP R 820 J 1/2W	
R529-540			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R541-544			RK73GB2A103J	CHIP R 10K J 1/10W	
R601			RK73GB2A681J	CHIP R 680 J 1/10W	
R604,605			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R606			RK73GB2A473J	CHIP R 47K J 1/10W	
VR501			R32-0689-05	SEMI FIXED VARIABLE RESISTOR	
VR601			R31-0630-05	VARIABLE RESISTOR	
S501-506			S70-0502-05	TACT SWITCH	
S507			S68-0410-05	PUSH SWITCH	
D501,502			HSM88AS-E	DIODE	
D506,507			LA-501DD	LED	
D508-514			DA204U	DIODE	
D601,602			DA204U	DIODE	
D603			MINISMDCC020F	VARIATOR	
IC501			NJM4558E-ZB	ANALOGUE IC	
IC502-505			BU4094BCFV	MOS-IC	
IC506,507			TA78L05FF	MOS-IC	
Q501			2SC4116(Y)F	TRANSISTOR	
Q502			2SA1586(Y,GR)F	TRANSISTOR	
Q503,504			UPA672T-A	FET	
Q506			DTA114EUA	DIGITAL TRANSISTOR	
Q507			UPA672T-A	FET	
Q508-511			DTA114EUA	DIGITAL TRANSISTOR	
Q512-514			UPA672T-A	FET	
Q516-519			UPA672T-A	FET	
Q521-524			UPA672T-A	FET	
Q525			2SK1824-A	FET	
TX-RX UNIT (X57-696X-XX) 0-11: K,C 0-13: K3,C3 2-70: E 3-01: C6					
C2			CC73GCH1H010C	CHIP C 1.0PF C	K3,C3
C2			CC73GCH1H020C	CHIP C 2.0PF C	C6
C3			CC73GCH1H090D	CHIP C 9.0PF D	C6
C3			CC73GCH1H100D	CHIP C 10PF D	K3,C3
C3			CC73GCH1H120J	CHIP C 12PF J	K,E,C
C4, 5			CK73GB1H471K	CHIP C 470PF K	
C7			CC73GCH1H080D	CHIP C 8.0PF D	K3,C3
C7			CC73GCH1H120J	CHIP C 12PF J	K,E,C
C7			CC73GCH1H120J	CHIP C 12PF J	C6
C8			CC73GCH1H0R5C	CHIP C 0.5PF C	K,E,C
C8			CC73GCH1H010C	CHIP C 1.0PF C	K3,C3
C8			CC73GCH1H030C	CHIP C 3.0PF C	C6
C13			CK73GB1H471K	CHIP C 470PF K	
C14, 15			CC73GCH1H060D	CHIP C 6.0PF D	K,E,C
C14, 15			CC73GCH1H070D	CHIP C 7.0PF D	K3,C3,C6
C24			C92-0864-05	CHIP TNTL 10UF 10WV	
C25			CS77AA1A100M	CHIP TNTL 10UF 10WV	
C28			CC73GCH1H080D	CHIP C 8.0PF D	K3,C3,C6
C28, 29			CC73GCH1H020C	CHIP C 2.0PF C	K,E,C
C29			CC73GCH1H110J	CHIP C 11PF J	K3,C3
C29			CC73GCH1H120J	CHIP C 12PF J	C6
C30			CC73GCH1H680J	CHIP C 68PF J	
C31			CC73GCH1H331J	CHIP C 330PF J	
C32			CK73GB1H103K	CHIP C 0.010UF K	
C33			CC73GCH1H330J	CHIP C 33PF J	
C34			CK73GB1H103K	CHIP C 0.010UF K	
C36, 37			CK73GB1H103K	CHIP C 0.010UF K	
C38, 39			CC73GCH1H680J	CHIP C 68PF J	
C40, 41			CK73GB1H103K	CHIP C 0.010UF K	
C42, 43			CC73GCH1H030C	CHIP C 3.0PF C	
C44, 45			CC73GCH1H040C	CHIP C 4.0PF C	
C46, 47			CC73GCH1H030C	CHIP C 3.0PF C	
C48			CK73GB1H103K	CHIP C 0.010UF K	
C49, 50			CC73GCH1H680J	CHIP C 68PF J	
C51			CK73GB1H103K	CHIP C 0.010UF K	
C52			CK73GB1H103J	CHIP C 0.010UF J	
C53			CK73GB1H102K	CHIP C 1000PF K	
C54			CK73GB1H103J	CHIP C 0.010UF J	
C55, 56			CK73GB1H103K	CHIP C 0.010UF K	
C57			CK73GB1H103J	CHIP C 0.010UF J	
C58			CC73GCH1H180J	CHIP C 18PF J	
C59			CC73GCH1H150J	CHIP C 15PF J	
C60			CK73GB1H103K	CHIP C 0.010UF K	
C61			CC73GCH1H080D	CHIP C 8.0PF D	
C62, 63			CK73GB1H103K	CHIP C 0.010UF K	
C64			CK73GB1C104K	CHIP C 0.10UF K	
C65			CS77AA1C100M	CHIP TNTL 10UF 16WV	
C66, 67			CC73GCH1H331J	CHIP C 330PF J	
C68 -70			CK73GB1C104K	CHIP C 0.10UF K	
C71			CK73GB1H103K	CHIP C 0.010UF K	
C72			CS77AA1C100M	CHIP TNTL 10UF 16WV	
C73			CK73GB1C104K	CHIP C 0.10UF K	
C74			CK73GB1H102K	CHIP C 1000PF K	
C75			CK73GB1C104K	CHIP C 0.10UF K	

PARTS LIST / 零件表

TX-RX UNIT (X57-696X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
C76		*	CS77AC1A470M	CHIP TNTL 47UF 10WV		C155			CK73GB1H103K	CHIP C 0.010UF K	
C77			CK73GB1H102K	CHIP C 1000PF K		C156			CK73GB1H102K	CHIP C 1000PF K	
C78			CK73GB1C104K	CHIP C 0.10UF K		C157			CK73GB1H103K	CHIP C 0.010UF K	
C79			CK73FB1C224K	CHIP C 0.22UF K		C158		*	CS77CB21C3R3M	CHIP TNTL 3.3UF 16WV	
C80_81			CS77AA1A100M	CHIP TNTL 10UF 10WV		C159			CK73GB1H471K	CHIP C 470PF K	
C82 -84			CK73GB1H103K	CHIP C 0.010UF K		C160			CK73GB1H102K	CHIP C 1000PF K	
C86			CK73GB1H102K	CHIP C 1000PF K		C161-163			CK73GB1H103K	CHIP C 0.010UF K	
C87			CS77AA1A100M	CHIP TNTL 10UF 10WV		C164			CK73GB1H471K	CHIP C 470PF K	
C88			CK73GB1H102K	CHIP C 1000PF K		C166,167			CK73GB1H471K	CHIP C 470PF K	
C89_90			CK73GB1H103J	CHIP C 0.010UF J		C171			CK73GB1H471K	CHIP C 470PF K	
C91			CC73GCH1H040C	CHIP C 4.0PF C	K,E,C	C172			CK73GB1H102K	CHIP C 1000PF K	
C91			CC73GCH1H040C	CHIP C 4.0PF C	C6	C173			CK73GB1H103K	CHIP C 0.010UF K	
C91			CC73GCH1H050C	CHIP C 5.0PF C	K3,C3	C174		*	CS77CB21C3R3M	CHIP TNTL 3.3UF 16WV	
C92_93			CK73GB1H471K	CHIP C 470PF K		C175			CK73GB1H102K	CHIP C 1000PF K	
C94			CC73GCH1H030C	CHIP C 3.0PF C	K,E,C	C176			CK73GB1H103K	CHIP C 0.010UF K	
C94			CC73GCH1H050C	CHIP C 5.0PF C	C6	C177			CK73GB1H471K	CHIP C 470PF K	
C94_95			CC73GCH1H040C	CHIP C 4.0PF C	K3,C3	C178			CS77AA1A4R7M	CHIP TNTL 4.7UF 10WV	
C95			CC73GCH1H040C	CHIP C 4.0PF C	K,E,C	C179			CK73GB1H103K	CHIP C 0.010UF K	
C95			CC73GCH1H060D	CHIP C 6.0PF D	C6	C184,185			CK73GB1H102K	CHIP C 1000PF K	
C96 -99			CK73GB1H471K	CHIP C 470PF K		C189,190			CK73GB1H102K	CHIP C 1000PF K	
C100			CC73GCH1H060D	CHIP C 6.0PF D	K3,C3	C191-195			CK73GB1H103K	CHIP C 0.010UF K	
C100			CC73GCH1H070D	CHIP C 7.0PF D	C6	C197			CK73FB1H333K	CHIP C 0.033UF K	
C100,101			CC73GCH1H050C	CHIP C 5.0PF C	K,E,C	C198			CK73GB1C104K	CHIP C 0.10UF K	
C101			CC73GCH1H050C	CHIP C 5.0PF C	K3,C3,C6	C199			CK73GB1H103K	CHIP C 0.010UF K	
C102			CK73GB1H471K	CHIP C 470PF K		C204-208			CC73GCH1H101J	CHIP C 100PF J	
C104			CK73GB1H471K	CHIP C 470PF K		C210			CC73GCH1H080D	CHIP C 8.0PF D	K,E,C
C105			CC73GCH1H070D	CHIP C 7.0PF D		C210			CC73GCH1H100D	CHIP C 10PF D	K3,C3
C106			CK73GB1H471K	CHIP C 470PF K		C210			CC73GCH1H120J	CHIP C 12PF J	C6
C107			CC73GCH1H060D	CHIP C 6.0PF D	K,E,C	C211			CC73GCH1H120J	CHIP C 12PF J	K,E,C
C107			CC73GCH1H060D	CHIP C 6.0PF D	K3,C3	C212-214			CK73GB1H103K	CHIP C 0.010UF K	
C107			CC73GCH1H080D	CHIP C 8.0PF D	C6	C216			CK73GB1H471K	CHIP C 470PF K	
C109			CC73GCH1H120J	CHIP C 12PF J	K,E,C	C217			CK73GB1H102K	CHIP C 1000PF K	
C109			CC73GCH1H120J	CHIP C 12PF J	K3,C3	C218			CK73GB1E103K	CHIP C 0.010UF K	
C109			CC73GCH1H180J	CHIP C 18PF J	C6	C223			CC73GCH1H101J	CHIP C 100PF J	K,E,C
C111			CC73GCH1H060D	CHIP C 6.0PF D	K,E,C	C224			CC73GCH1H030C	CHIP C 3.0PF C	K3,C3
C111			CC73GCH1H060D	CHIP C 6.0PF D	K3,C3	C224			CC73GCH1H050C	CHIP C 5.0PF C	C6
C111			CC73GCH1H080D	CHIP C 8.0PF D	C6	C225			CC73GCH1H020C	CHIP C 2.0PF C	C6
C114-117			CC73GCH1H100D	CHIP C 10PF D		C231		*	CS77AB21A220M	CHIP TNTL 22UF 10WV	
C120,121			CK73GB1H471K	CHIP C 470PF K		C232-234			CK73GB1H103J	CHIP C 0.010UF J	
C122,123			CK73GB1H103K	CHIP C 0.010UF K		C235			CC73GCH1H101J	CHIP C 100PF J	K3,C3
C124,125			C92-0859-05	ELECTRO 100UF 16WV		C251			CC73GCH1H030C	CHIP C 3.0PF C	K3,C3,C6
C126,127			CS77AB21C220M	CHIP TNTL 22UF 16WV		C600			CK73GB1C104K	CHIP C 0.10UF K	
C128,129			CK73GB1H103K	CHIP C 0.010UF K		C602			CK73GB1C104K	CHIP C 0.10UF K	
C130,131			CK73GB1H102K	CHIP C 1000PF K		C605			CK73GB1C104K	CHIP C 0.10UF K	
C132,133			CK73GB1H471K	CHIP C 470PF K		C613,614			CK73GB1E103K	CHIP C 0.010UF K	
C134,135			CK73GB1H103K	CHIP C 0.010UF K		C616			CK73GB1E103K	CHIP C 0.010UF K	
C136-139			C90-4016-05	ELECTRO 47UF 16WV		C623			CK73GB1C104K	CHIP C 0.10UF K	
C140,141			CK73GB1H103K	CHIP C 0.010UF K		C629			CC73GCH1H101J	CHIP C 100PF J	
C142,143			CK73GB1H102K	CHIP C 1000PF K		C634,635			CC73GCH1H220J	CHIP C 22PF J	
C144			CK73GB1H471K	CHIP C 470PF K		C638			CK73GB1C104K	CHIP C 0.10UF K	
C145			CS77AA1A4R7M	CHIP TNTL 4.7UF 10WV		C639			CK73GB1E103K	CHIP C 0.010UF K	
C146			CK73GB1H471K	CHIP C 470PF K		C640			CS77AA1A100M	CHIP TNTL 10UF 10WV	
C147			CS77AB21C220M	CHIP TNTL 22UF 16WV		C641			CK73GB1C104K	CHIP C 0.10UF K	
C148			CK73GB1H102K	CHIP C 1000PF K		C642			CK73GB1E103K	CHIP C 0.010UF K	
C149			CK73GB1H103K	CHIP C 0.010UF K		C643			CS77AA1A100M	CHIP TNTL 10UF 10WV	
C150			CS77AB21C220M	CHIP TNTL 22UF 16WV		C644			CK73GB1E103K	CHIP C 0.010UF K	
C151		*	CS77CB21C3R3M	CHIP TNTL 3.3UF 16WV		C645,646			CS77AA1A100M	CHIP TNTL 10UF 10WV	
C152			CK73GB1H103K	CHIP C 0.010UF K		C647			CC73GCH1H101J	CHIP C 100PF J	
C153			CK73GB1H471K	CHIP C 470PF K		C648			CK73GB1E103K	CHIP C 0.010UF K	
C154			CS77AA1C100M	CHIP TNTL 10UF 16WV		C649			CC73GCH1H330J	CHIP C 33PF J	

PARTS LIST / 零件表

TX-RX UNIT (X57-696X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
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			CS77AAQJ100M	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	
C744-746			CS77AA1A100M	CHIP TNTL 10UF 10WV		C840			CK73GB1H472K	CHIP C 4700PF K	
C747,748			CK73GB1E103K	CHIP C 0.010UF K		C841			CK73FB1C105K	CHIP C 1.0UF K	
C749			CK73GB1H471K	CHIP C 470PF K		C842			CS77AA1E010M	CHIP TNTL 1.0UF 25WV	
C750,751			CK73GB1E103K	CHIP C 0.010UF K		C843,844			CK73GB1C104K	CHIP C 0.10UF K	
C752			CK73GB1H471K	CHIP C 470PF K		C851			CK73GB1C104K	CHIP C 0.10UF K	
C753,754			CS77AA1A100M	CHIP TNTL 10UF 10WV		C852			CK73GB1H102K	CHIP C 1000PF K	
C755			CK73GB1H471K	CHIP C 470PF K		CN1			E04-0154-05	PIN SOCKET	
C756,757			CS77AA1A100M	CHIP TNTL 10UF 10WV		CN2		*	E41-2735-05	PIN ASSY	
C758			CK73FB1C105K	CHIP C 1.0UF K		CN3			E04-0154-05	PIN SOCKET	
C759			CK73GB1H471K	CHIP C 470PF K		CN4		*	E41-2735-05	PIN ASSY	
C760			CK73GB1H102K	CHIP C 1000PF K		CN14			E40-6656-05	PIN ASSY	
C761			CK73GB1C104K	CHIP C 0.10UF K		CN15		*	E41-2672-05	PIN ASSY	
C762,763			CK73GB1H102K	CHIP C 1000PF K							

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TX-RX UNIT (X57-696X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
CN16		*	E41-2738-05	PIN ASSY		L45			L40-2275-92	SMALL FIXED INDUCTOR (22NH)	C6
CN18,19			E04-0154-05	PIN SOCKET		L46			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)	C6
CN600			E40-6102-05	PIN ASSY		L600-608			L92-0140-05	CHIP FERRITE	
CN601			E40-6654-05	PIN ASSY		L611-613			L92-0140-05	CHIP FERRITE	
CN602			E40-6656-05	PIN ASSY		X1			L77-1762-05	CRYSTAL RESONATOR (44.395MHZ)	
CN603			E40-6655-05	PIN ASSY		X2 ,3	*		L77-1849-15	VCXO (16.8MHZ)	
CN604			E40-6653-05	PIN ASSY		X600	*		L78-1417-05	RESONATOR (14.7456MHZ)	
CN605			E41-2671-05	PIN ASSY		X601			L77-1799-05	CRYSTAL RESONATOR (16.515MHZ)	
CN606			E40-5960-05	PIN ASSY		XF1			L71-0513-05	MCF (NARROW)	
F1			F53-0392-05	FUSE (3A/32V)		XF2			L71-0512-05	MCF (WIDE)	K,C,K3
CF1			L72-0366-05	CERAMIC FILTER		XF2			L71-0512-05	MCF (WIDE)	C3,C6
CF2			L72-0376-05	CERAMIC FILTER					L71-0627-05	MCF (WIDE SEMI)	E
L1			L34-4616-05	AIR-CORE COIL		CP600,601			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
L2			L79-1849-05	HELICAL BLOCK	K,E,C	CP603			RK75GA1J101J	CHIP-COM 100 J 1/16W	
L2		*	L79-1851-05	HELICAL BLOCK	C6	CP604,605			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
L2		*	L79-1853-05	HELICAL BLOCK	K3,C3	CP606			RK75GA1J472J	CHIP-COM 4.7K J 1/16W	
L3			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)	K3,C3	CP607,608			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
L3			L41-1875-33	SMALL FIXED INDUCTOR (0.018UH)	K,E,C	CP609			RK75GA1J101J	CHIP-COM 100 J 1/16W	
L3			L41-2275-33	SMALL FIXED INDUCTOR (0.022UH)	C6	CP610,611	*		RK75GB1J100J	CHIP-COM 10 J 1/16W	
L4 ,5			L79-1849-05	HELICAL BLOCK	K,E,C	CP612-614			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
L4 ,5		*	L79-1851-05	HELICAL BLOCK	C6	CP615-619	*		RK75GB1J100J	CHIP-COM 10 J 1/16W	
L4 ,5		*	L79-1853-05	HELICAL BLOCK	K3,C3	CP620			RK75GA1J101J	CHIP-COM 100 J 1/16W	
L6			L41-1875-33	SMALL FIXED INDUCTOR (0.018UH)	K,E,C	R2			RK73GB2A122J	CHIP R 1.2K J 1/10W	
L6			L41-2275-33	SMALL FIXED INDUCTOR (0.022UH)	K3,C3,C6	R3			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L10			L40-1581-37	SMALL FIXED INDUCTOR (0.150UH)		R5			RK73GB2A101J	CHIP R 100 J 1/10W	
L11			L41-1885-33	SMALL FIXED INDUCTOR (0.18UH)		R8			RK73GB2A151J	CHIP R 150 J 1/10W	
L12			L40-3381-37	SMALL FIXED INDUCTOR (0.330UH)		R9			RK73GB2A223J	CHIP R 22K J 1/10W	
L13			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R10			RK73GB2A180J	CHIP R 18 J 1/10W	
L14			L34-4794-05	COIL		R11			RK73GB2A271J	CHIP R 270 J 1/10W	
L15			L34-4793-05	COIL		R13			RK73GB2A271J	CHIP R 270 J 1/10W	
L16			L34-4794-05	COIL		R14			RK73GB2A333J	CHIP R 33K J 1/10W	
L17 ,18			L34-4793-05	COIL		R17			RK73GB2A824J	CHIP R 820K J 1/10W	
L19			L34-4794-05	COIL		R18			RK73GB2A684J	CHIP R 680K J 1/10W	
L20			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R19			RK73GB2A474J	CHIP R 470K J 1/10W	
L21			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R20			RK73GB2A184J	CHIP R 180K J 1/10W	C6
L23			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R20			RK73GB2A224J	CHIP R 220K J 1/10W	K,E,C
L24			L34-4787-05	COIL		R20			RK73GB2A224J	CHIP R 220K J 1/10W	K3,C3
L25			L41-2775-33	SMALL FIXED INDUCTOR (0.027UH)	K,E,C	R30			RK73GB2A821J	CHIP R 820 J 1/10W	
L25			L41-2775-33	SMALL FIXED INDUCTOR (0.027UH)	K3,C3	R31			RK73GB2A5R6J	CHIP R 5.6 J 1/10W	
L25 ,26			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)	C6	R32			RK73GB2A821J	CHIP R 820 J 1/10W	
L26			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)	K,E,C	R33			RK73GB2A470J	CHIP R 47 J 1/10W	
L26 -28			L41-2275-33	SMALL FIXED INDUCTOR (0.022UH)	K3,C3	R34			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L27			L41-2275-33	SMALL FIXED INDUCTOR (0.022UH)	K,E,C	R35			RK73GB2A182J	CHIP R 1.8K J 1/10W	
L27 ,28			L41-2775-33	SMALL FIXED INDUCTOR (0.027UH)	C6	R36			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L28			L41-1875-33	SMALL FIXED INDUCTOR (0.018UH)	K,E,C	R37			RK73GB2A682J	CHIP R 6.8K J 1/10W	
L29 ,30			L40-1875-92	SMALL FIXED INDUCTOR (18NH)	K,E,C	R38			RK73GB2A000J	CHIP R 0.0 J 1/10W	
L29 ,30			L40-2275-92	SMALL FIXED INDUCTOR (22NH)	K3,C3,C6	R39			RK73GB2A560J	CHIP R 56 J 1/10W	
L31 ,32			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R40			RK73GB2A270J	CHIP R 27 J 1/10W	
L33			L40-1575-92	SMALL FIXED INDUCTOR (15NH)	K,E,C	R41			RK73GB2A222J	CHIP R 2.2K J 1/10W	
L33			L40-1875-92	SMALL FIXED INDUCTOR (18NH)	C6	R42 -45			RK73GB2A223J	CHIP R 22K J 1/10W	
L33			L40-2275-92	SMALL FIXED INDUCTOR (22NH)	K3,C3	R46			RK73GB2A222J	CHIP R 2.2K J 1/10W	
L34			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R47			RK73GB2A153J	CHIP R 15K J 1/10W	
L35 -39			L92-0140-05	CHIP FERRITE		R48			RK73GB2A473J	CHIP R 47K J 1/10W	
L40			L92-0158-05	CHIP FERRITE		R49			RK73GB2A221J	CHIP R 220 J 1/10W	
L42			L40-1875-92	SMALL FIXED INDUCTOR (18NH)	K3,C3	R50			RK73GB2A153J	CHIP R 15K J 1/10W	
L42			L40-2275-92	SMALL FIXED INDUCTOR (22NH)	C6	R51			RK73GB2A000J	CHIP R 0.0 J 1/10W	
L42			L40-6865-92	SMALL FIXED INDUCTOR (6.8NH)	K,E,C	R52			RK73GB2A223J	CHIP R 22K J 1/10W	
L43			L92-0140-05	CHIP FERRITE		R53			RK73GB2A682J	CHIP R 6.8K J 1/10W	
L45			L40-1875-92	SMALL FIXED INDUCTOR (18NH)	K3,C3	R54			RK73GB2A102J	CHIP R 1.0K J 1/10W	

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Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R55			RK73GB2A223J	CHIP R 22K J 1/10W		R151-158			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R56			RK73GB2A682J	CHIP R 6.8K J 1/10W		R160,161			RK73GB2A471J	CHIP R 470 J 1/10W	
R57			RK73GB2A332J	CHIP R 3.3K J 1/10W		R162-164			RK73GB2A271J	CHIP R 270 J 1/10W	
R58			RK73GB2A153J	CHIP R 15K J 1/10W		R165			RK73GB2A471J	CHIP R 470 J 1/10W	
R60			RK73GB2A103J	CHIP R 10K J 1/10W		R166			RK73GB2A223J	CHIP R 22K J 1/10W	
R61			RK73GB2A274J	CHIP R 270K J 1/10W		R168			RK73GB2A000J	CHIP R 0.0 J 1/10W	K,E,C
R62			RK73GB2A222J	CHIP R 2.2K J 1/10W		R168			RK73GB2A181J	CHIP R 180 J 1/10W	C6
R63			RK73GB2A183J	CHIP R 18K J 1/10W		R168			RK73GB2A271J	CHIP R 270 J 1/10W	K3,C3
R65			RK73GB2A472J	CHIP R 4.7K J 1/10W		R169			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R66			RK73GB2A334J	CHIP R 330K J 1/10W		R171			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R67			RK73GB2A560J	CHIP R 56 J 1/10W		R173			RK73GB2A000J	CHIP R 0.0 J 1/10W	C6
R68,69			RK73GB2A332J	CHIP R 3.3K J 1/10W		R173,174			RK73GB2A000J	CHIP R 0.0 J 1/10W	K3,C3
R70			RK73GB2A102J	CHIP R 1.0K J 1/10W		R174			RK73GB2A151J	CHIP R 150 J 1/10W	C6
R71			RK73GB2A823J	CHIP R 82K J 1/10W		R174,175			RK73GB2A000J	CHIP R 0.0 J 1/10W	K,E,C
R72			RK73GB2A334J	CHIP R 330K J 1/10W		R175			RK73GB2A331J	CHIP R 330 J 1/10W	C6
R73			RK73GB2A474J	CHIP R 470K J 1/10W		R175			RK73GB2A391J	CHIP R 390 J 1/10W	K3,C3
R74,75			RK73GB2A220J	CHIP R 22 J 1/10W		R176			RK73GB2A473J	CHIP R 47K J 1/10W	
R76			RK73GB2A104J	CHIP R 100K J 1/10W		R178			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R77,78			RK73GB2A473J	CHIP R 47K J 1/10W		R178,179			RK73GB2A000J	CHIP R 0.0 J 1/10W	K3,C3,C6
R79			RK73GB2A104J	CHIP R 100K J 1/10W		R181			RK73GB2A182J	CHIP R 1.8K J 1/10W	K,E,C
R82			RK73GB2A474J	CHIP R 470K J 1/10W		R182			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R83			RK73GB2A000J	CHIP R 0.0 J 1/10W		R200,201			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R87,88			RK73GB2A102J	CHIP R 1.0K J 1/10W		R600			RK73GB2A473J	CHIP R 47K J 1/10W	
R90			RK73GB2A000J	CHIP R 0.0 J 1/10W		R601			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R91			RK73GB2A472J	CHIP R 4.7K J 1/10W		R602			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R92			RK73GB2A182J	CHIP R 1.8K J 1/10W		R603			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R93,94			RK73GB2A101J	CHIP R 100 J 1/10W		R604			RK73GB2A333J	CHIP R 33K J 1/10W	
R95			RK73GB2A472J	CHIP R 4.7K J 1/10W		R605			RK73GB2A104J	CHIP R 100K J 1/10W	
R96			RK73GB2A182J	CHIP R 1.8K J 1/10W		R606			RK73GB2A473J	CHIP R 47K J 1/10W	
R97			RK73GB2A332J	CHIP R 3.3K J 1/10W		R607-613			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R98			RK73GB2A102J	CHIP R 1.0K J 1/10W		R614			RK73GB2A473J	CHIP R 47K J 1/10W	
R99			RK73GB2A101J	CHIP R 100 J 1/10W		R615			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R100			RK73GB2A680J	CHIP R 68 J 1/10W		R616			RK73GB2A473J	CHIP R 47K J 1/10W	
R101			RK73GB2A470J	CHIP R 47 J 1/10W		R618			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R102			RK73GB2A332J	CHIP R 3.3K J 1/10W		R619			RK73GB2A473J	CHIP R 47K J 1/10W	
R103			RK73GB2A102J	CHIP R 1.0K J 1/10W		R620-622			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R105			RK73GB2A270J	CHIP R 27 J 1/10W		R623,624			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R106			RK73GB2A000J	CHIP R 0.0 J 1/10W		R625-627			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R107			RK73GB2A470J	CHIP R 47 J 1/10W		R629			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R109			RK73GB2A101J	CHIP R 100 J 1/10W		R630,631			RK73GB2A473J	CHIP R 47K J 1/10W	
R113			RK73GB2A471J	CHIP R 470 J 1/10W		R633,634			RK73GB2A473J	CHIP R 47K J 1/10W	
R114			RK73GB2A000J	CHIP R 0.0 J 1/10W	K,E,C	R635			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R114			RK73GB2A000J	CHIP R 0.0 J 1/10W	K3,C3	R637			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R120,121			RK73GB2A152J	CHIP R 1.5K J 1/10W		R638			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R122,123			RK73GB2A100J	CHIP R 10 J 1/10W		R639			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R124,125			RK73GB2A152J	CHIP R 1.5K J 1/10W		R640			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R126,127			RK73GB2A100J	CHIP R 10 J 1/10W		R641			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R128			RK73GB2A472J	CHIP R 4.7K J 1/10W		R642			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R129,130			RK73GB2A473J	CHIP R 47K J 1/10W		R643			RK73GB2A473J	CHIP R 47K J 1/10W	
R131			RK73GB2A102J	CHIP R 1.0K J 1/10W		R644			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R134			RK73GB2A821J	CHIP R 820 J 1/10W		R645,646			RK73GB2A473J	CHIP R 47K J 1/10W	
R135			RK73GB2A5R6J	CHIP R 5.6 J 1/10W		R647,648			RK73GB2A101J	CHIP R 100 J 1/10W	
R136			RK73GB2A821J	CHIP R 820 J 1/10W		R649-651			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R137,138			RK73GB2A102J	CHIP R 1.0K J 1/10W		R652			RK73GB2A101J	CHIP R 100 J 1/10W	
R139-142			RK73GB2A000J	CHIP R 0.0 J 1/10W		R653,654			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R143			RK73GB2A102J	CHIP R 1.0K J 1/10W		R655			RK73GB2A473J	CHIP R 47K J 1/10W	
R144			RK73GB2A472J	CHIP R 4.7K J 1/10W		R656			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R145			RK73FB2B470J	CHIP R 47 J 1/8W		R657-661			RK73GB2A473J	CHIP R 47K J 1/10W	
R148			RK73GB2A472J	CHIP R 4.7K J 1/10W		R662			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R150			RK73GB2A180J	CHIP R 18 J 1/10W		R663-667			RK73GB2A473J	CHIP R 47K J 1/10W	

PARTS LIST / 零件表

TX-RX UNIT (X57-696X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R668			RK73GB2A183J	CHIP R 18K J 1/10W		R758			RK73GB2A103J	CHIP R 10K J 1/10W	
R669-671			RK73GB2A223J	CHIP R 22K J 1/10W		R760			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R672			RK73GB2A104J	CHIP R 100K J 1/10W		R762			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R673			RK73GB2A224J	CHIP R 220K J 1/10W		R763			RK73GB2A103J	CHIP R 10K J 1/10W	
R674			RK73GB2A823J	CHIP R 82K J 1/10W		R764,765			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R675			RK73GB2A104J	CHIP R 100K J 1/10W		R766			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R676			RK73GB2A823J	CHIP R 82K J 1/10W		R767			RK73GB2A473J	CHIP R 47K J 1/10W	
R678			RK73GB2A104J	CHIP R 100K J 1/10W		R768			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R679,680			RK73GB2A223J	CHIP R 22K J 1/10W		R771			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R681			RK73GB2A183J	CHIP R 18K J 1/10W		R772			RK73GB2A473J	CHIP R 47K J 1/10W	
R682			RK73GB2A153J	CHIP R 15K J 1/10W		R773			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R683			RK73GB2A124J	CHIP R 120K J 1/10W		R774			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R684			RK73GB2A473J	CHIP R 47K J 1/10W		R775			RK73GB2A473J	CHIP R 47K J 1/10W	
R685,686			RK73GB2A104J	CHIP R 100K J 1/10W		R776			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R687			RK73GB2A223J	CHIP R 22K J 1/10W		R777			RK73GB2A473J	CHIP R 47K J 1/10W	
R688-690			RK73GB2A473J	CHIP R 47K J 1/10W		R778			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R691-693			RK73GB2A000J	CHIP R 0.0 J 1/10W		R779			RK73GB2A473J	CHIP R 47K J 1/10W	
R694,695			RK73GB2A101J	CHIP R 100 J 1/10W		R780			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R696			RK73GB2A103J	CHIP R 10K J 1/10W		R781			RK73GB2A471J	CHIP R 470 J 1/10W	
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	

PARTS LIST / 零件表

TX-RX UNIT (X57-696X-XX)

RX VCO UNIT (X58-496X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
R837			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R839,840			RK73GB2A561J	CHIP R 560 J 1/10W	
R841,842			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R843			RK73GB2A274J	CHIP R 270K J 1/10W	
R844			RK73GB2A334J	CHIP R 330K J 1/10W	
K1			S76-0401-05	RELAY	
D1 -4			DAN235K	DIODE	
D5			MA3J742	DIODE	
D7			1SS355	DIODE	
D8			DAN235K	DIODE	
D11			02DZ5.1F-Y	ZENER DIODE	
D12			02DZ18F-X,Y	ZENER DIODE	
D13			MA3J742	DIODE	
D600			DA204U	DIODE	
D606-612			DA204U	DIODE	
D614-616			DA204U	DIODE	
D618-623			DA204U	DIODE	
D626			MINISMDE190F	VARISTOR	
D627,628			1SS355	DIODE	
D629			DA204U	DIODE	
IC1,2			NJM4558E-ZB	ANALOGUE IC	
IC3			NJM78L05UA-ZB	BI-POLAR IC	
IC4			NJM7808FA-ZB	BI-POLAR IC	
IC5			AN8009M	MOS-IC	
IC6			M62354GPDF0J	MOS-IC	
IC7			BU4094BCF	MOS-IC	
IC9			TK14489V-G	BI-POLAR IC	
IC10			TA7808FQ	ANALOGUE IC	
IC11			NJM78L05UA-ZB	BI-POLAR IC	
IC600			AT24C08A10SU18	ROM IC	
IC601			R3111H421C-F	MOS-IC	
IC602			BU4094BCFV	MOS-IC	
IC603		*	TC7LVX4245FSF	MOS-IC	
IC604		*	30622M6P177GPU	MICROPROCESSOR IC	
IC605			BU4053BCF	MOS-IC	
IC606		*	TC7LVX4245FSF	MOS-IC	
IC607			NJM4558E-ZB	ANALOGUE IC	
IC608			TA75S01F-F	MOS-IC	
IC609			AT29C02090TU	ROM IC	
IC610			TA75S01F-F	MOS-IC	
IC611			NJM4558E-ZB	ANALOGUE IC	
IC612			TC7S04FU-F	MOS-IC	
IC613			TC74VHC4040FT	MOS-IC	
IC614			AK4550VTP	MOS-IC	
IC615			M62364FP-F	MOS-IC	
IC616,617			NJM4558E-ZB	ANALOGUE IC	
IC618			320VC5402PGE	MICROPROCESSOR IC	
IC619			TC75W51FUF	MOS-IC	
IC620			ADM202EARNZ	MOS-IC	
IC621			TC7S00FU-F	MOS-IC	
IC622			TC7S66FUF	MOS-IC	
IC623			BU4094BCFV	MOS-IC	
IC624		*	XC62FP1802PN	MOS-IC	
IC625,626		*	XC62FP3302PN	MOS-IC	
IC627,628			TA78L05FF	MOS-IC	
IC629	3B		LA4422-E	BI-POLAR IC	
IC630			TA78L05FF	MOS-IC	
IC631,632			TA75W01FUF	MOS-IC	
Q1,2			2SC3357-A	TRANSISTOR	
Q3			2SC3356-A(R24)	TRANSISTOR	
Q4			DTC144EUA	DIGITAL TRANSISTOR	
Q5			DTA144EUA	DIGITAL TRANSISTOR	
Q6			DTC144EUA	DIGITAL TRANSISTOR	
Q7			2SC4617(S)	TRANSISTOR	
Q8,9		*	2SC3356-A	TRANSISTOR	
Q10			2SC3357-A	TRANSISTOR	
Q11			2SC3356-A(R24)	TRANSISTOR	
Q12 -15			2SC4116(GR)F	TRANSISTOR	
Q16			2SB1132(Q,R)	TRANSISTOR	
Q17			DTC114EUA	DIGITAL TRANSISTOR	
Q18			2SB1386(R)	TRANSISTOR	
Q19			DTC114EUA	DIGITAL TRANSISTOR	
Q23			DTC114EUA	DIGITAL TRANSISTOR	
Q24			DTD114EK	DIGITAL TRANSISTOR	
Q25,26			DTC114EUA	DIGITAL TRANSISTOR	
Q27			DTC144EUA	DIGITAL TRANSISTOR	
Q600			2SK1824-A	FET	
Q601			DTC114EUA	DIGITAL TRANSISTOR	
Q602			2SK1824-A	FET	
Q603			DTC114EUA	DIGITAL TRANSISTOR	
Q604			2SK1824-A	FET	
Q605			DTC114EUA	DIGITAL TRANSISTOR	
Q606			DTC363EU	DIGITAL TRANSISTOR	
Q607,608			DTC144EUA	DIGITAL TRANSISTOR	
Q609			DTC114EUA	DIGITAL TRANSISTOR	
Q610			2SJ506-E(S)	FET	
Q611			DTC114EUA	DIGITAL TRANSISTOR	
Q612			DTC144EUA	DIGITAL TRANSISTOR	
Q613,614			DTD123TK	DIGITAL TRANSISTOR	
Q615			DTC144EUA	DIGITAL TRANSISTOR	
TH1			157-503-53006	THERMISTOR	
TH700,701			B57331V2103J	THERMISTOR	
A1			W02-1939-05	DBM	
RX VCO UNIT (X58-496X-XX) 2-70:K,E,C 2-71: K3,C3 3-01: C6					
C306			CK73GB1H103K	CHIP C 0.010UF K	
C307			CK73GB1H471K	CHIP C 470PF K	
C311			CS77CA1V0R1M	CHIP TNTL 0.1UF 35WV	
C312			CC73GCH1H070D	CHIP C 7.0PF D	K,E,C
C312			CC73GCH1H080D	CHIP C 8.0PF D	K3,C3
C312			CC73GCH1H100D	CHIP C 10PF D	C6
C314			CC73GCH1H120J	CHIP C 12PF J	K,E,C
C314			CC73GCH1H180J	CHIP C 18PF J	K3,C3
C314			CC73GCH1H220J	CHIP C 22PF J	C6
C315			CK73FB1H473K	CHIP C 0.047UF K	
C317			CC73GCH1H070D	CHIP C 7.0PF D	K,E,C
C317			CC73GCH1H080D	CHIP C 8.0PF D	K3,C3
C317			CC73GCH1H100D	CHIP C 10PF D	C6
C318			CS77AA1A4R7M	CHIP TNTL 4.7UF 10WV	K,E,C
C318			CS77AA1A4R7M	CHIP TNTL 4.7UF 10WV	K3,C3
C318			CS77AA1A6R8M	CHIP TNTL 6.8UF 10WV	C6
C319			CK73GB1H471K	CHIP C 470PF K	
C320			CS77AA1A4R7M	CHIP TNTL 4.7UF 10WV	K,E,C
C320			CS77AA1A4R7M	CHIP TNTL 4.7UF 10WV	K3,C3
C320			CS77AA1A6R8M	CHIP TNTL 6.8UF 10WV	C6
C321			CC73GCH1H040C	CHIP C 4.0PF C	K,E,C

PARTS LIST / 零件表

RX VCO UNIT (X58-496X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
C321			CC73GCH1H040C	CHIP C 4.0PF C	K3,C3	L303			L41-3378-14	SMALL FIXED INDUCTOR (33NH)	C6
C321			CC73GCH1H060D	CHIP C 6.0PF D	C6	L307			L92-0140-05	CHIP FERRITE	
C322			CK73GB1H471K	CHIP C 470PF K		L350-355			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
C323			CK73FB1E224K	CHIP C 0.22UF K		L356,357			L34-4608-05	AIR-CORE COIL	K,E,C
C324			CS77CA1VR22M	CHIP TNL 0.22UF 35WV		L356,357			L34-4609-05	AIR-CORE COIL	K3,C3,C6
C325			CC73GCH1H040C	CHIP C 4.0PF C		L358-361			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	
C329			CK73GB1H471K	CHIP C 470PF K		L362			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)	K,E,C
C333			CK73GB1E104K	CHIP C 0.10UF K		L362			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)	K3,C3
C350,351			CK73GB1H471K	CHIP C 470PF K		L362			L41-3975-33	SMALL FIXED INDUCTOR (0.039UH)	C6
C354			CK73GB1H471K	CHIP C 470PF K		R302-304			RK73GB2A101J	CHIP R 100 J 1/10W	
C355			CC73GCH1H050B	CHIP C 5.0PF B	K,E,C	R308			RK73GB2A560J	CHIP R 56 J 1/10W	
C355,356			CC73GCH1H060B	CHIP C 6.0PF B	K3,C3	R309			RK73GB2A221J	CHIP R 220 J 1/10W	C6
C356			CC73GCH1H120G	CHIP C 12PF G	C6	R309			RK73GB2A331J	CHIP R 330 J 1/10W	K,E,C
C356			CC73GCH1H060B	CHIP C 6.0PF B	K,E,C	R309			RK73GB2A331J	CHIP R 330 J 1/10W	K3,C3
C356			CC73GCH1H070B	CHIP C 7.0PF B	K3,C3	R312			RK73GB2A221J	CHIP R 220 J 1/10W	C6
C357			CK73GB1H471K	CHIP C 470PF K		R312			RK73GB2A331J	CHIP R 330 J 1/10W	K,E,C
C358			CC73GCH1H1R5B	CHIP C 1.5PF B	K3,C3	R312			RK73GB2A331J	CHIP R 330 J 1/10W	K3,C3
C358			CC73GCH1H2R5B	CHIP C 2.5PF B	K,E,C	R313			RK73GB2A102J	CHIP R 1.0K J 1/10W	K,E,C
C358,359			CC73GCH1H050B	CHIP C 5.0PF B	C6	R313			RK73GB2A102J	CHIP R 1.0K J 1/10W	K3,C3
C359			CC73GCH1H030B	CHIP C 3.0PF B	K,E,C	R313			RK73GB2A681J	CHIP R 680 J 1/10W	C6
C359			CC73GCH1H2R5B	CHIP C 2.5PF B	K3,C3	R314			RK73GB2A474J	CHIP R 470K J 1/10W	
C360,361			CK73FB1E104K	CHIP C 0.10UF K		R315			RK73GB2A151J	CHIP R 150 J 1/10W	K,E,C
C362			CC73GCH1H120G	CHIP C 12PF G	K,E,C	R315			RK73GB2A151J	CHIP R 150 J 1/10W	K3,C3
C362			CC73GCH1H120G	CHIP C 12PF G	K3,C3	R315			RK73GB2A271J	CHIP R 270 J 1/10W	C6
C362,363			CC73GCH1H270G	CHIP C 27PF G	C6	R316			RK73FB2B152J	CHIP R 1.5K J 1/8W	
C363			CC73GCH1H100C	CHIP C 10PF C	K,E,C	R317,318			RK73GB2A000J	CHIP R 0.0 J 1/10W	
C363			CC73GCH1H150G	CHIP C 15PF G	K3,C3	R319			RK73GB2A330J	CHIP R 33 J 1/10W	
C364,365			CK73GB1H471K	CHIP C 470PF K		R320			RK73GB2A222J	CHIP R 2.2K J 1/10W	
C366			CC73GCH1H080B	CHIP C 8.0PF B	C6	R321			RK73GB2A273J	CHIP R 27K J 1/10W	
C366-369			CC73GCH1H070B	CHIP C 7.0PF B	K,E,C	R322			RK73GB2A103J	CHIP R 10K J 1/10W	
C366-369			CC73GCH1H070B	CHIP C 7.0PF B	K3,C3	R350-353			RK73GB2A000J	CHIP R 0.0 J 1/10W	
C367			CC73GCH1H070B	CHIP C 7.0PF B	C6	R354,355			RK73GB2A330J	CHIP R 33 J 1/10W	
C368			CC73GCH1H080B	CHIP C 8.0PF B	C6	R356			RK73GB2A221J	CHIP R 220 J 1/10W	K,E,C
C369			CC73GCH1H070B	CHIP C 7.0PF B	C6	R356			RK73GB2A221J	CHIP R 220 J 1/10W	K3,C3
C370,371			CC73GCH1H100C	CHIP C 10PF C		R356,357			RK73GB2A271J	CHIP R 270 J 1/10W	C6
C372,373			CK73GB1H471K	CHIP C 470PF K		R357			RK73GB2A181J	CHIP R 180 J 1/10W	K,E,C
C374,375			CC73GCH1H0R5B	CHIP C 0.5PF B		R357			RK73GB2A181J	CHIP R 180 J 1/10W	K3,C3
C376-378			CK73GB1H471K	CHIP C 470PF K		R358,359			RK73GB2A470J	CHIP R 47 J 1/10W	
C379			CC73GCH1H040C	CHIP C 4.0PF C	K,E,C	R360			RK73GB2A472J	CHIP R 4.7K J 1/10W	
C379			CC73GCH1H040C	CHIP C 4.0PF C	K3,C3	R361			RK73GB2A103J	CHIP R 10K J 1/10W	
C379			CC73GCH1H050C	CHIP C 5.0PF C	C6	R362			RK73GB2A472J	CHIP R 4.7K J 1/10W	
C383			CK73GB1H471K	CHIP C 470PF K		R363			RK73GB2A102J	CHIP R 1.0K J 1/10W	
C385			CK73GB1H471K	CHIP C 470PF K		R364			RK73GB2A103J	CHIP R 10K J 1/10W	
C386			CC73GCH1H101J	CHIP C 100PF J		R365			RK73GB2A333J	CHIP R 33K J 1/10W	
C387,388			CK73GB1H103K	CHIP C 0.010UF K		R366			RK73GB2A103J	CHIP R 10K J 1/10W	
C389			CK73GB1E104K	CHIP C 0.10UF K		R367			RK73GB2A101J	CHIP R 100 J 1/10W	K,E,C
C391,392			CK73GB1H471K	CHIP C 470PF K		R367			RK73GB2A101J	CHIP R 100 J 1/10W	K3,C3
C393,394			CC73GCH1H101J	CHIP C 100PF J		R367			RK73GB2A271J	CHIP R 270 J 1/10W	C6
TC350,351			C05-0396-05	CERAMIC TRIMMER (8PF)		R368			RK73GB2A330J	CHIP R 33 J 1/10W	
CN300			E40-5699-05	PIN ASSY		R380-382			RK73GB2A101J	CHIP R 100 J 1/10W	
CN350			E40-5755-05	PIN ASSY		R383			RK73GB2A470J	CHIP R 47 J 1/10W	
CN351			E40-6098-05	PIN ASSY		R384			RK73GB2A101J	CHIP R 100 J 1/10W	
-			F10-2377-04	SHIELDING CASE		R385			RK73GB2A470J	CHIP R 47 J 1/10W	
-			F10-3078-04	SHIELDING CASE		R386			RK73GB2A101J	CHIP R 100 J 1/10W	
L301,302			L41-1878-14	SMALL FIXED INDUCTOR (18NH)	K,E,C	R387			RK73FB2B000J	CHIP R 0.0 J 1/8W	
L301,302			L41-1878-14	SMALL FIXED INDUCTOR (18NH)	K3,C3	R388			RK73GB2A333J	CHIP R 33K J 1/10W	
L301,302			L41-2278-14	SMALL FIXED INDUCTOR (22NH)	C6	R389			RK73GB2A473J	CHIP R 47K J 1/10W	
L303			L41-2278-14	SMALL FIXED INDUCTOR (22NH)	K,E,C	R390			RK73GB2A103J	CHIP R 10K J 1/10W	
L303			L41-2778-14	SMALL FIXED INDUCTOR (27NH)	K3,C3	R391-393			RK73GB2A473J	CHIP R 47K J 1/10W	
L303			L41-2778-14	SMALL FIXED INDUCTOR (27NH)	K3,C3	R394			RK73GB2A471J	CHIP R 470 J 1/10W	

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PARTS LIST / 零件表

RX VCO UNIT (X58-496X-XX)

TX VCO UNIT (X58-497X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
D300			1SS355	DIODE		C362			CC73GCH1H180J	CHIP C 18PF J	K,E,C
D350-353			1SV282-F	VARIABLE CAPACITANCE DIODE		C363			CC73GCH1H120G	CHIP C 12PF G	C6
IC301			LMX2352TMX/NP	ANALOGUE IC		C363			CC73GCH1H220J	CHIP C 22PF J	K3,C3
Q300,301			2SC4116(GR)F	TRANSISTOR		C364			CK73GB1H471K	CHIP C 470PF K	K,E,C
Q302			2SC5108(Y)F	TRANSISTOR		C365			CK73GB1H471K	CHIP C 470PF K	K3,C3,C6
Q304			2SA1832(GR)F	TRANSISTOR		C366			CC73GCH1H050B	CHIP C 5.0PF B	K,E,C
Q305			DTC144EUA	DIGITAL TRANSISTOR		C367			CC73GCH1H060B	CHIP C 6.0PF B	K3,C3
Q306,307			2SK1824-A	FET		C367			CC73GCH1H080B	CHIP C 8.0PF B	C6
Q350,351			2SK508N(V)K52	FET		C368			CC73GCH1H080B	CHIP C 8.0PF B	K,E,C
Q352,353			2SC4116(Y)F	TRANSISTOR		C369			CC73GCH1H080B	CHIP C 8.0PF B	K3,C3
Q354			DTC114EUA	DIGITAL TRANSISTOR		C369			CC73GCH1H090B	CHIP C 9.0PF B	C6
Q355			2SC4226-A(R24)	TRANSISTOR		C370			CC73GCH1H080B	CHIP C 8.0PF B	K,E,C
TX VCO UNIT (X58-497X-XX) 2-70: K,E,C 2-71: K3,C3 3-01: C6						C371			CC73GCH1H080B	CHIP C 8.0PF B	K3,C3
C306			CK73GB1H103K	CHIP C 0.010UF K		C371			CC73GCH1H090B	CHIP C 9.0PF B	C6
C307			CK73GB1H471K	CHIP C 470PF K		C374			CC73GCH1H0R5B	CHIP C 0.5PF B	K,E,C
C311			CS77CA1V0R1M	CHIP TNTL 0.1UF 35WV		C375			CC73GCH1H0R5B	CHIP C 0.5PF B	K3,C3,C6
C312			CC73GCH1H060D	CHIP C 6.0PF D	K,E,C	C377,378			CK73GB1H471K	CHIP C 470PF K	
C312			CC73GCH1H070D	CHIP C 7.0PF D	K3,C3	C379			CC73GCH1H040C	CHIP C 4.0PF C	K,E,C
C312			CC73GCH1H080D	CHIP C 8.0PF D	C6	C379			CC73GCH1H040C	CHIP C 4.0PF C	K3,C3
C314			CC73GCH1H120J	CHIP C 12PF J	K,E,C	C379			CC73GCH1H050C	CHIP C 5.0PF C	C6
C314			CC73GCH1H120J	CHIP C 12PF J	K3,C3	C380			CC73GCH1HR75B	CHIP C 0.75PF B	K,E,C
C314			CC73GCH1H180J	CHIP C 18PF J	C6	C381			CC73GCH1H0R5B	CHIP C 0.5PF B	K3,C3,C6
C315			CK73FB1H473K	CHIP C 0.047UF K		C382,383			CC73GCH1H471J	CHIP C 470PF J	
C317			CC73GCH1H060D	CHIP C 6.0PF D	K,E,C	C385			CK73GB1H471K	CHIP C 470PF K	
C317			CC73GCH1H070D	CHIP C 7.0PF D	K3,C3	C387,388			CK73GB1H103K	CHIP C 0.010UF K	
C317			CC73GCH1H080D	CHIP C 8.0PF D	C6	C389			CK73GB1E104K	CHIP C 0.10UF K	
C318			CS77AA1A4R7M	CHIP TNTL 4.7UF 10WV	K,E,C	C391,392			CK73GB1H471K	CHIP C 470PF K	
C318			CS77AA1A4R7M	CHIP TNTL 4.7UF 10WV	K3,C3	C393,394			CC73GCH1H101J	CHIP C 100PF J	
C318			CS77AA1A6R8M	CHIP TNTL 6.8UF 10WV	C6	TC350			C05-0396-05	CERAMIC TRIMMER (8PF)	K,E,C
C319			CK73GB1H471K	CHIP C 470PF K		TC351			C05-0396-05	CERAMIC TRIMMER (8PF)	K3,C3,C6
C320			CS77AA1A4R7M	CHIP TNTL 4.7UF 10WV	K,E,C	CN300			E40-5699-05	PIN ASSY	
C320			CS77AA1A4R7M	CHIP TNTL 4.7UF 10WV	K3,C3	CN350			E40-5755-05	PIN ASSY	
C320			CS77AA1A6R8M	CHIP TNTL 6.8UF 10WV	C6	CN351			E40-6098-05	PIN ASSY	
C321			CC73GCH1H040C	CHIP C 4.0PF C	K,E,C	-			F10-2377-04	SHIELDING CASE	
C321			CC73GCH1H040C	CHIP C 4.0PF C	K3,C3	-			F10-3078-04	SHIELDING CASE	
C321			CC73GCH1H060D	CHIP C 6.0PF D	C6	L301,302			L41-1578-14	SMALL FIXED INDUCTOR (15NH)	K,E,C
C322			CK73GB1H471K	CHIP C 470PF K		L301,302			L41-1878-14	SMALL FIXED INDUCTOR (18NH)	K3,C3,C6
C323			CK73FB1E224K	CHIP C 0.22UF K		L303			L41-2278-14	SMALL FIXED INDUCTOR (22NH)	K,E,C
C324			CS77AA1VR33M	CHIP TNTL 0.33UF 35WV	K3,C3,C6	L303			L41-2778-14	SMALL FIXED INDUCTOR (27NH)	K3,C3
C324			CS77CA1VR22M	CHIP TNTL 0.22UF 35WV	K,E,C	L303			L41-3378-14	SMALL FIXED INDUCTOR (33NH)	C6
C325			CC73GCH1H040C	CHIP C 4.0PF C		L307			L92-0140-05	CHIP FERRITE	
C329			CK73GB1H471K	CHIP C 470PF K		L350,351			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	K3,C3,C6
C333			CK73GB1E104K	CHIP C 0.10UF K		L352-354			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	K,E,C
C350,351			CK73GB1H471K	CHIP C 470PF K	K,E,C	L355			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	K3,C3,C6
C351			CK73GB1H471K	CHIP C 470PF K	K3,C3,C6	L356			L34-4645-05	AIR-CORE COIL	K,E,C
C352			CC73GCH1H101J	CHIP C 100PF J		L357			L34-4607-05	AIR-CORE COIL	K3,C3
C353			CK73GB1H471K	CHIP C 470PF K	K3,C3,C6	L357			L34-4608-05	AIR-CORE COIL	C6
C354			CK73GB1H471K	CHIP C 470PF K	K,E,C	L358			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	K,E,C
C355			CC73GCH1H110J	CHIP C 11PF J	K3,C3	L359			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	K3,C3,C6
C355			CC73GCH1H150G	CHIP C 15PF G	C6	L360			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	K,E,C
C356			CC73GCH1H090B	CHIP C 9.0PF B	K,E,C	L361			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	K3,C3,C6
C357			CK73GB1H471K	CHIP C 470PF K	K3,C3,C6	L362			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)	K,E,C
C358			CC73GCH1H030B	CHIP C 3.0PF B	K3,C3	L362			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)	K3,C3
C358			CC73GCH1H1R5B	CHIP C 1.5PF B	C6	L362			L41-3975-33	SMALL FIXED INDUCTOR (0.039UH)	C6
C359			CC73GCH1H030B	CHIP C 3.0PF B	K,E,C	R302-304			RK73GB2A101J	CHIP R 100 J 1/10W	
C360			CK73FB1E104K	CHIP C 0.10UF K	K,E,C	R308			RK73GB2A560J	CHIP R 56 J 1/10W	
C361			CK73FB1E104K	CHIP C 0.10UF K	K3,C3,C6	R309			RK73GB2A331J	CHIP R 330 J 1/10W	
						R312			RK73GB2A331J	CHIP R 330 J 1/10W	
						R313			RK73GB2A102J	CHIP R 1.0K J 1/10W	K,E,C

PARTS LIST / 零件表

TX VCO UNIT (X58-497X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R313			RK73GB2A122J	CHIP R 1.2K J 1/10W	K3,C3						
R313			RK73GB2A681J	CHIP R 680 J 1/10W	C6						
R314			RK73GB2A474J	CHIP R 470K J 1/10W							
R315			RK73GB2A151J	CHIP R 150 J 1/10W							
R316			RK73FB2B152J	CHIP R 1.5K J 1/8W							
R317,318			RK73GB2A000J	CHIP R 0.0 J 1/10W							
R319			RK73GB2A330J	CHIP R 33 J 1/10W							
R320			RK73GB2A222J	CHIP R 2.2K J 1/10W							
R321			RK73GB2A273J	CHIP R 27K J 1/10W							
R322			RK73GB2A103J	CHIP R 10K J 1/10W							
R350			RK73GB2A000J	CHIP R 0.0 J 1/10W	K3,C3,C6						
R351			RK73GB2A000J	CHIP R 0.0 J 1/10W	K,E,C						
R352			RK73GB2A000J	CHIP R 0.0 J 1/10W	K3,C3,C6						
R353			RK73GB2A000J	CHIP R 0.0 J 1/10W	K,E,C						
R354			RK73GB2A330J	CHIP R 33 J 1/10W	K,E,C						
R355			RK73GB2A330J	CHIP R 33 J 1/10W	K3,C3,C6						
R358			RK73GB2A470J	CHIP R 47 J 1/10W	K3,C3,C6						
R359			RK73GB2A470J	CHIP R 47 J 1/10W	K,E,C						
R365			RK73GB2A333J	CHIP R 33K J 1/10W							
R366			RK73GB2A103J	CHIP R 10K J 1/10W							
R367			RK73GB2A101J	CHIP R 100 J 1/10W	K3,C3						
R367			RK73GB2A181J	CHIP R 180 J 1/10W	K,E,C						
R367			RK73GB2A820J	CHIP R 82 J 1/10W	C6						
R368			RK73GB2A330J	CHIP R 33 J 1/10W							
R372			RK73GB2A184J	CHIP R 180K J 1/10W	K,E,C						
R373			RK73GB2A104J	CHIP R 100K J 1/10W	K,E,C						
R374			RK73GB2A124J	CHIP R 120K J 1/10W	K3,C3						
R374,375			RK73GB2A104J	CHIP R 100K J 1/10W	C6						
R375			RK73GB2A104J	CHIP R 100K J 1/10W	K3,C3						
R376			RK73GB2A271J	CHIP R 270 J 1/10W	K,E,C						
R377			RK73GB2A181J	CHIP R 180 J 1/10W	K3,C3,C6						
R380-382			RK73GB2A101J	CHIP R 100 J 1/10W							
R383			RK73GB2A470J	CHIP R 47 J 1/10W							
R384			RK73GB2A101J	CHIP R 100 J 1/10W							
R385			RK73GB2A470J	CHIP R 47 J 1/10W							
R386			RK73GB2A101J	CHIP R 100 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			1SV282-F	VARIABLE CAPACITANCE DIODE	K,E,C						
D351			1SV282-F	VARIABLE CAPACITANCE DIODE	K3,C3,C6						
D352			1SV282-F	VARIABLE CAPACITANCE DIODE	K,E,C						
D353			1SV282-F	VARIABLE CAPACITANCE DIODE	K3,C3,C6						
D354			1SV214-F	VARIABLE CAPACITANCE DIODE	K,E,C						
D355			1SV214-F	VARIABLE CAPACITANCE DIODE	K3,C3,C6						
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			2SK508NV(K52)	FET	K,E,C						
Q351			2SK508NV(K52)	FET	K3,C3,C6						
Q355			2SC4226-A(R24)	TRANSISTOR							

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EXPLODED VIEW / 部件分解图

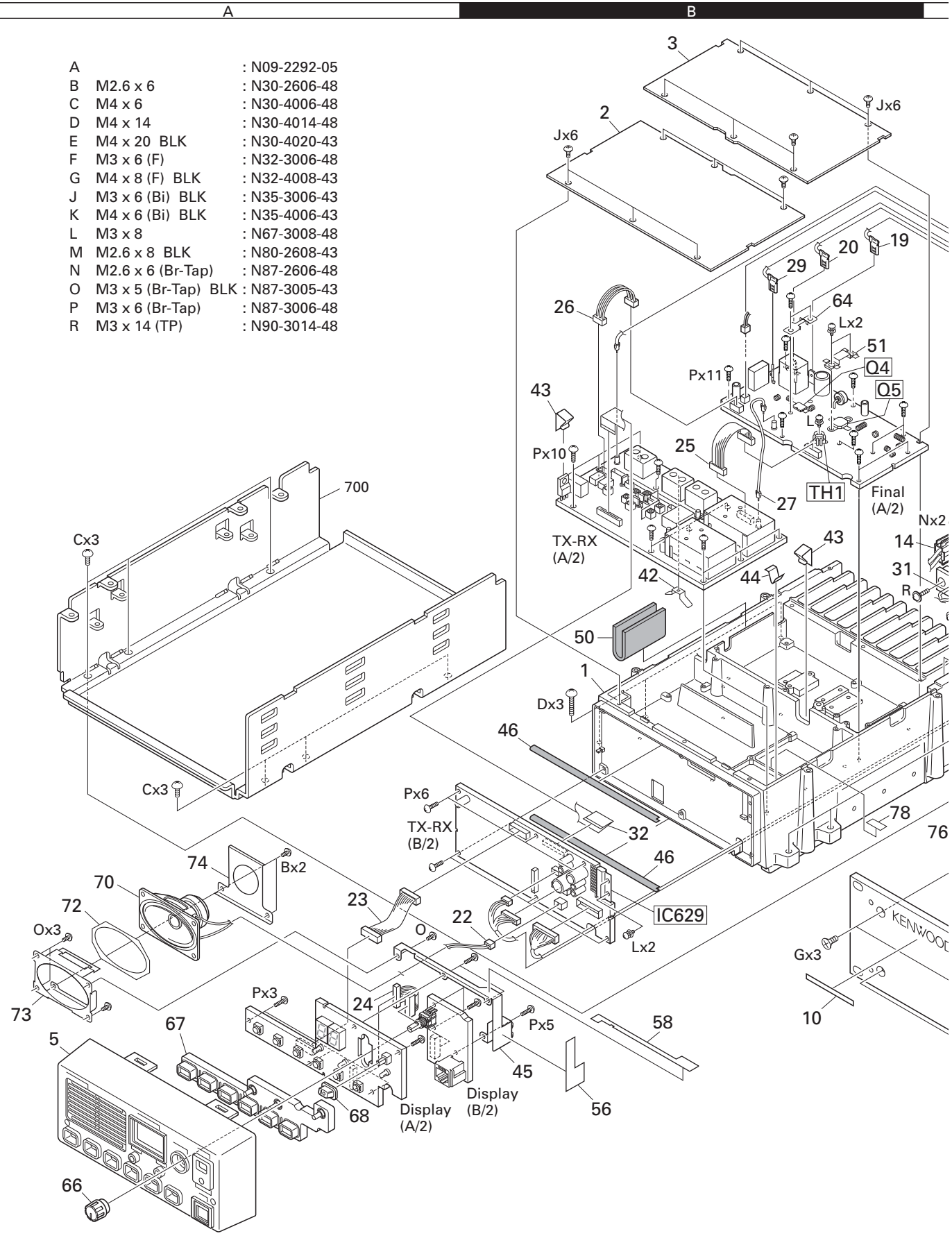


A	:	N09-2292-05
B	M2.6 x 6	: N30-2606-48
C	M4 x 6	: N30-4006-48
D	M4 x 14	: N30-4014-48
E	M4 x 20 BLK	: N30-4020-43
F	M3 x 6 (F)	: N32-3006-48
G	M4 x 8 (F) BLK	: N32-4008-43
J	M3 x 6 (Bi) BLK	: N35-3006-43
K	M4 x 6 (Bi) BLK	: N35-4006-43
L	M3 x 8	: N67-3008-48
M	M2.6 x 8 BLK	: N80-2608-43
N	M2.6 x 6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

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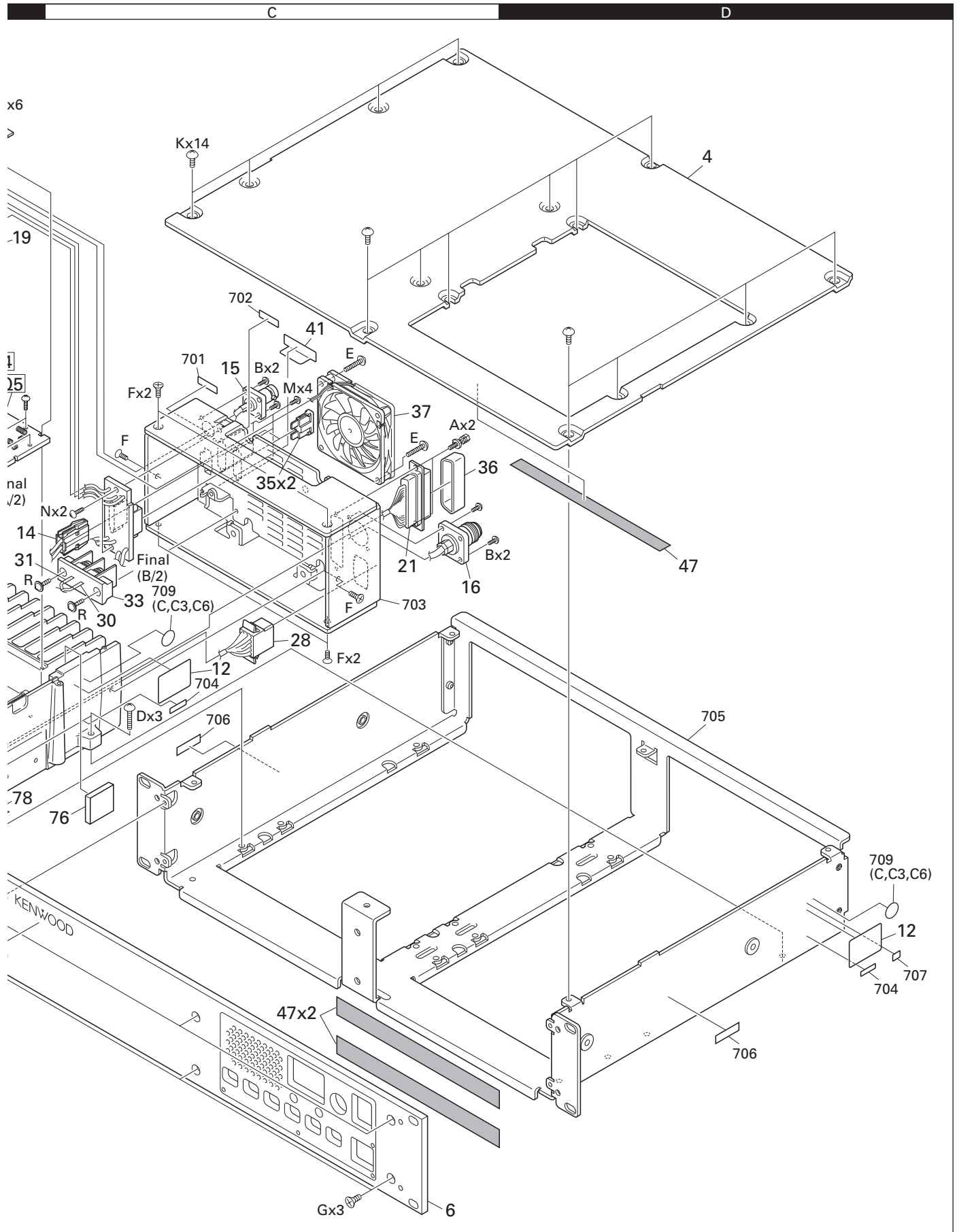
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16 If a part reference number is listed in a box on the exploded view of the PCB, that part does not come with the PCB. These parts must be ordered separately.



EXPLODED VIEW / 部件分解图

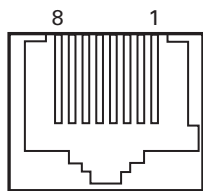


ADJUSTMENT

Test Equipment Required for Alignment

Test Equipment	Major Specifications	
1. Standard Signal Generator (SSG)	Frequency Range	300 to 512MHz
	Modulation	Frequency modulation and external modulation
	Output	0.1μV to greater than 1mV
2. Power Meter	Input Impedance	50Ω
	Operation Frequency	300 to 512MHz or more
	Measurement Capability	Vicinity of 100W
3. Deviation Meter	Frequency Range	300 to 512MHz
4. Digital Volt Meter (DVM)	Measuring Range	1 to 20V DC
	Accuracy	High input impedance for minimum circuit loading
5. Oscilloscope		DC through 30MHz
6. High Sensitivity Frequency Counter	Frequency Range	10Hz to 600MHz
	Frequency Stability	0.2ppm or less
7. Ammeter		15A or more
8. AF Volt Meter (AF VTVM)	Frequency Range	50Hz to 10kHz
	Voltage Range	3mV to 3V
9. Audio Generator (AG)	Frequency Range	50Hz to 5kHz
	Output	0 to 1V
10. Distortion Meter	Capability	3% or less at 1kHz
	Input Level	50mV to 10Vrms
11. Voltmeter	Measuring Range	10 to 1.5V DC or less
	Input Impedance	50kΩ/V or greater
12. 4Ω Dummy Load		Approx. 4Ω, 5W

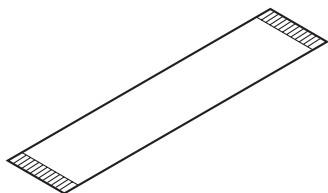
MIC connector (Front panel view)



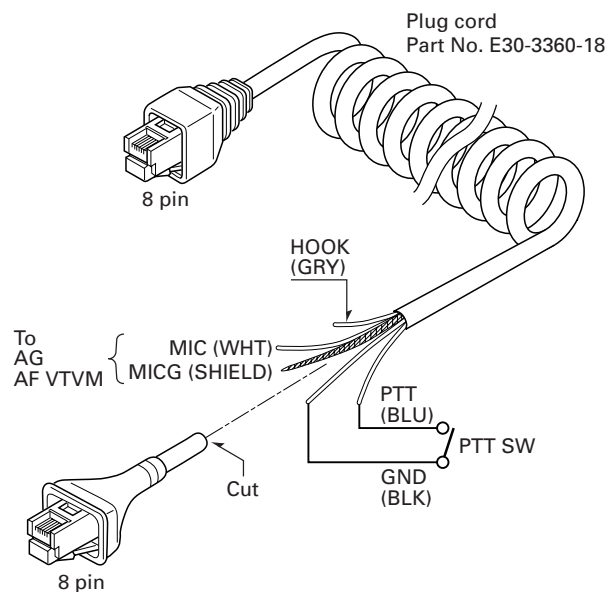
- 1 : NC
- 2 : +B
- 3 : GND
- 4 : PTT/TXD1 (PC serial data from radio)
- 5 : MIC GND
- 6 : MIC
- 7 : HOOK/RXD1 (PC serial data to radio)
- 8 : NC

Flat cable (36-pin) about 256mm

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.



Test cable for microphone input

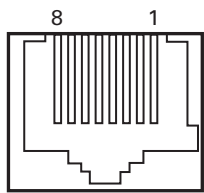


调 整

所需的用于调整的测试设备

测 试 设 备	主 要 特 性	
1. 标准信号发生器 (SSG)	频率范围 调制 输出	300到512MHz 调频和外部调制 0.1 μ V到大于1mV
2. 功率计	输入阻抗 工作频率 测量范围	50 Ω 300到512MHz或更高 100W左右
3. 偏差仪	频率范围	300到512MHz
4. 数字电压表 (DVM)	测量范围 输入阻抗	直流1V到20V 最小电路负载时为高输入阻抗
5. 示波器		直流到30MHz
6. 高灵敏度频率计数器	频率范围 频率稳定性	10Hz到600MHz 0.2ppm或更低
7. 电流表		15A
8. 音频电压表 (AF VTVM)	频率范围 电压范围	50Hz到10kHz 3mV到3V
9. 音频发生器 (AG)	频率范围 输出	50Hz到5kHz 0到1V
10. 失真测试仪	测量能力 输入电平	在1kHz时3%或更低 50mV到10Vrms
11. 电压表	测量范围 输入阻抗	直流10V到1.5V或更低 50k Ω /V或更高
12. 4 Ω 假负载		大约4 Ω , 5W

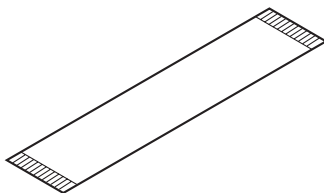
麦克风连接器 (前面板视图)



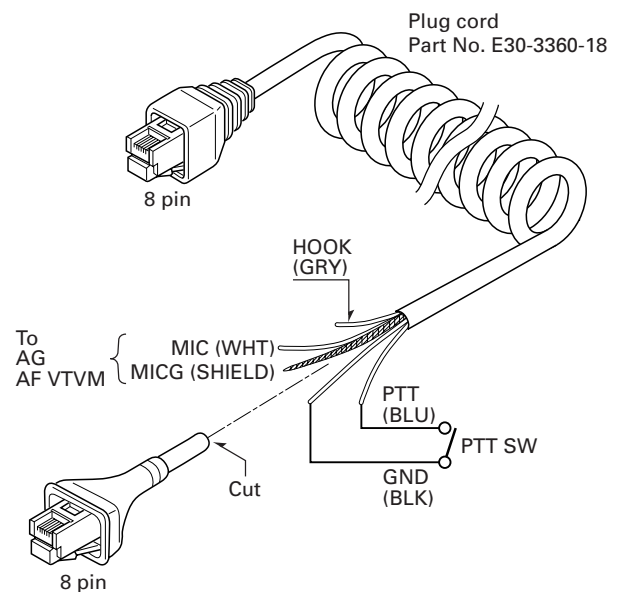
- 1 : NC
- 2 : +B
- 3 : GND
- 4 : PTT/TXD1 (PC serial data from radio)
- 5 : MIC GND
- 6 : MIC
- 7 : HOOK/RXD1 (PC serial data to radio)
- 8 : NC

扁平电缆 (36芯)

控制部分与TX-RX部分连接用电缆(E37-0979-05)
长度256mm



用于麦克风输入的测试电缆



ADJUSTMENT / 调整

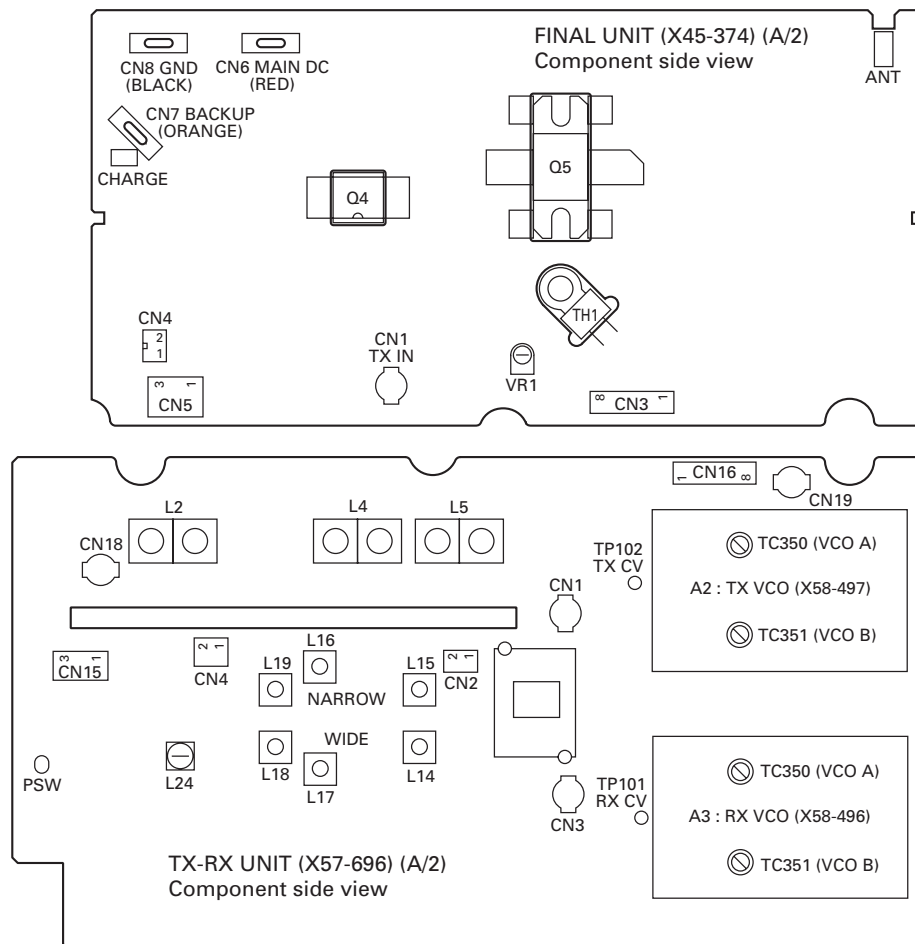
Test Channel (Default) / 测试频率 (出厂设定)

No. 号码	K,C		K3,C3		E		C6	
	RX / 接收	TX / 发射	RX / 接收	TX / 发射	RX / 接收	TX / 发射	RX / 接收	TX / 发射
1	450.10	450.00	400.10	400.00	440.10	440.00	350.10	350.00
2	465.10	465.00	415.10	415.00	455.10	455.10	365.10	365.00
3	479.90	480.00	429.90	430.00	469.90	470.00	379.90	380.00
4	455.10	455.00	405.10	405.00	445.10	445.00	355.10	355.00
5	460.10	460.00	410.10	410.00	450.10	450.00	360.10	360.00
6	470.10	470.00	420.10	420.00	460.10	460.00	370.10	370.00
7	475.10	475.00	425.10	425.00	465.10	465.00	375.10	375.00
8	462.60	462.50	412.60	412.50	452.60	452.50	362.60	362.50
9	467.60	467.50	417.60	417.50	457.60	457.50	367.60	367.50
10	440.10	440.00	419.90	420.00	459.90	460.00	369.90	370.00
11	459.90	460.00	439.90	440.00	479.90	480.00	389.90	390.00

Test Signaling / 测试信令

No.	Decode / 解码	Encode / 编码
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)

Adjustment Points / 调整点



ADJUSTMENT / 调整

Confirmation and Alignment of Set-up to Prevent Receiver Desensitization

设定中的确认和调整以防接收机灵敏度降低

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.

1. 双工器调整的确

双工器允许中继台同时发送和接收。为实现该功能,对于编程的接收频率,发送频率必须抑制75dB或更高。另外,对于编程的发射频率,接收频率也必须抑制75dB或更高。下列图形就是一些利用频谱分析仪得到的双工器调整图例。

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.

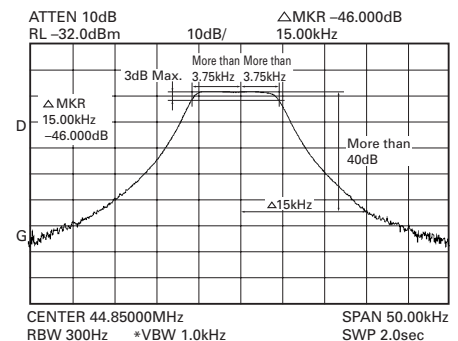
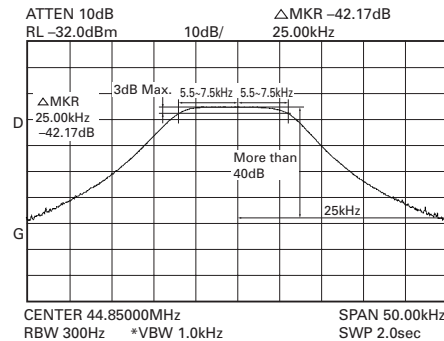
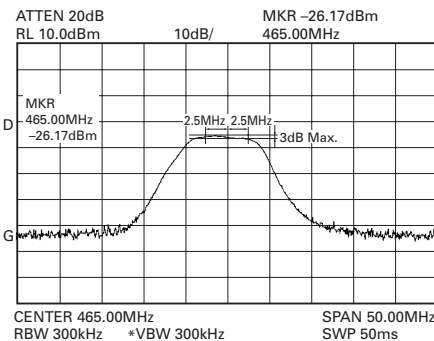
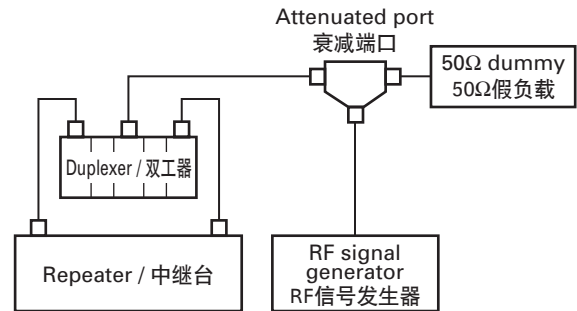
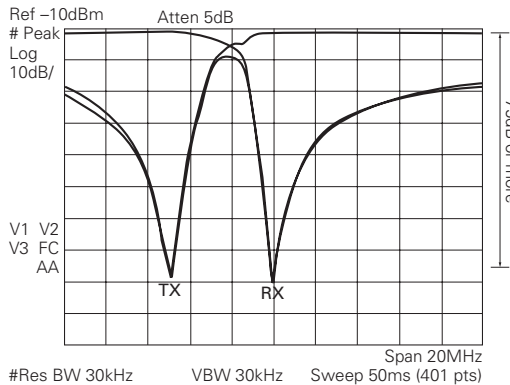
- 1) Disable the repeater mode.
- 2) Adjust the level of the RF generator until 12dB SINAD is reached.
- 3) Increase the output of the RF generator by 1dB. (This increases the SINAD.)
- 4) Enable the repeater mode.
- 5) Read the SINAD level. It should not drop below 12dB SINAD. If the SINAD is less than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

2. 中继台灵敏度降低的确认

下图是针对中继台灵敏度降低的测试调整。

当测试调整完成之后,如下所述确认中继台灵敏度降低的解决。

- 1) 停用中继台模式。
- 2) 调节RF发生器的电平直至达到12dB SINAD (信噪比)。
- 3) RF发生器的输出增加1dB。(该操作将会增加信噪比。)
- 4) 使用中继台模式。
- 5) 读取SINAD (信噪比) 值。它不应下降到低于12dB SINAD (信噪比)。如果该SINAD (信噪比) 值小于12dB, 检查连接器的紧密度和双工器的调谐。



BPF center frequency (Factory-default)
BPF中央频率 (出厂默认)
K,C : 465MHz, E : 455MHz, K3,C3 : 415MHz,
C6 : 370MHz

MCF : Wide / 宽

MCF : Narrow / 窄

Fig. 1 / 图1

Fig. 2 / 图2

Fig. 3 / 图3

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: X58-480X-XX	OK	OK
	TX: X58-481X-XX		
New type PLL unit (RoHS adaptation)	RX: X58-496X-XX	NG	OK
	TX: X58-497X-XX	PLL unlock condition	
If you used new PLL unit and old PLL unit together....		PLL unlock condition	

Fine-Tuning the TKR-850

"ADJUSTMENT" items described in the Service Manual for the TKR-850 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-850.

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" adjustment is 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. → "E1" appears on LED display 2) Write the test and shipping frequency to the radio. → Green (BUSY) LED lights up 3) End of test frequency writing.							
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.							

调 整

注:

更换PLL单元时需要注意的一些重要事项。

如果更换某一个旧型号PLL单元为新型号。

1. 还须将其它的PLL单元更换为新型号。(旧型号PLL单元无法与新型号PLL单元搭配使用。)
2. 中继台必须使用固件版本“C983”或更高版本。

兼容性表

		固件版本“C960”或更低版本	固件版本“C983”或更高版本
旧型号PLL单元 (不符合RoHS)	RX: X58-480X-XX	良好	良好
	TX: X58-481X-XX		
新型号PLL单元 (符合RoHS)	RX: X58-496X-XX	不良 PLL解锁状态	良好
	TX: X58-497X-XX		
如果同时使用新型号和旧型号PLL单元....		PLL解锁状态	

TKR-850的微调

TKR-850维修手册中所描述的“ADJUSTMENT”(调整)项目列出了涵盖所有调整项目的出厂默认调整步骤。然而,当以TKR-850要使用的信道频率调节功率,频偏,接收机灵敏度等时,没有必要调节所有的项目。

以要使用的信道频率进行调整的步骤

1. 使用FPU (KPG-91D(C)) 编程设定信道频率。
2. 从FPU菜单中,按顺序依次选择EDIT (编辑),“Test Frequency”(测试频率)和“CH paste”(信道粘贴)把信道的出厂默认测试频率重写为一个将要使用的测试频率。

擦除所有通过这种操作重新写入的信道频率,按ENTER键来恢复出厂默认测试频率。

细节请参考FPU (KPG-91D(C)) 的HELP菜单给出的解释。

3. 检查在FPU (KPG-91D(C)) 的“Test mode”(测试模式)下重新写入的频率是否正确,接着从FPU (KPG-91D(C)) 菜单中选择要调整的项目,将该项目的设定值调整为一个具有“TEST”(测试)标记的最优值。

注意:

当完成对“Max. Deviation”(最大频偏)的调整之后,一定要对“DQT balance”(DQT平衡)进行检查。

仅对E型机种进行5音的偏差调整。

调整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
1. 设定	1) 将单元与对应的DC电源连接。							
2. 写入试验和出厂频率	1) 将电脑和FPU电缆与电台连接后接通电源开关。 2) 将试验和出厂频率写入电台。 3) 固件写入结束。							→LED显示屏出现“E1”。 →绿色(BUSY)LED点亮。
3. 设定	1) 将单元与对应的DC电源连接。 2) 将电脑和FPU电缆与电台连接后接通电源开关。 3) 启动调整程序。							

ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
4. RX PLL lock voltage	1) RX VCO A high CH : 11 K,C CH : 10 K3,E,C3,C6	DVM	TX-RX (A/2)	RX-CV	RX VCO (A3)	TC350	1.50V	±0.1V
	2) RX VCO A low CH : 10 K,C CH : 1 K3,E,C3,C6						Check	8V or less
	3) RX VCO B high CH : 3 K,C CH : 11 K3,E,C3,C6				RX VCO (A3)	TC351	1.50V	±0.1V
	4) RX VCO B low CH : 5 K,C CH : 6 K3,E,C3,C6						Check	8V or less
5. TX PLL lock voltage	1) TX VCO high CH : 3			TX-CV	TX VCO (A2)	TC350 K,E,C TC351 K3,C3,C6	1.50V	±0.1V
	2) TX VCO low CH : 1						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
<p>Note : RX frequency means the local frequency of the RX VCO. So its frequency is wanted frequency minus the IF frequency.</p>								
7. Setting	1) Remove 8 pin cable and the coaxial cable from CN16, and CN19 on TX-RX side.							
8. 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
9. Setting	1) Insert 8 pin cable and the coaxial cable to CN16, and CN19 on TX-RX side.							
10. 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 43W.	±1W
11. TX RF high power	1) Measure the RF power at TX ANT. Low CH 2) Center CH 3) High CH						PC adj. 40W (Factory-default)	±1W
12. TX RF low power	1) Measure the power level at TX ANT. Low CH 2) Center CH 3) High CH						PC adj. 25W (Factory-default)	±1W
13. 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 L4 L5	Center the frequency you are using, then adjust it to look like the wave Fig. 1. (Page 21)	
		Spectrum analyzer	TX-RX (A/2)	CN1				

调 整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
4. RX PLL 锁定 电压调整	1) RX VCO A高 CH : 11 K,C CH : 10 K3,E,C3, C6	DVM	TX-RX (A/2)	RX-CV	RX VCO (A3)	TC350	1.50V	± 0.1V
	2) RX VCO A低 CH : 10 K,C CH : 1 K3,E,C3, C6						检查	8V或更低
	3) RX VCO B高 CH : 3 K,C CH : 11 K3,E,C3, C6				RX VCO (A3)	TC351	1.50V	± 0.1V
	4) RX VCO B低 CH : 5 K,C CH : 6 K3,E,C3,C6						检查	8V或更低
5. TX PLL 锁定 电压调整	1) TX VCO高 CH : 3			TX-CV	TX VCO (A2)	TC350 K,EC TC351 K3,C3, C6	1.50V	± 0.1V
	2) TX VCO低 CH : 1						检查	8V或更低
6. RX 频率调整	1) 将频率计与CN3连接, 然后测定频率。 CH : 2	频率计		CN3			PC调整 试验CH - 44.85MHz	50Hz或更低
注意： 频率表示RX VCO的本机频率。因此该频率为所需频率 - 中频频率。								
7. 设定	1) 从：TX-RX侧的CN16和CN19取下8插脚电缆和同轴电缆。							
8. TX 频率调整	1) 将频率计与CN19连接, 然后测量频率。 CH : 2	频率计	TX-RX (A/2)	CN19			PC调整	50Hz或更低
9. 设定	1) 向：TX-RX侧的CN16和CN19插入8插脚电缆和同轴电缆。							
10. 最大功率 限制	1) 在TX天线测试射频功率。 高CH	功率计	后侧	TX天线	Final	VR1	将射频功率调整到 43W	± 1W
11. TX射频 高功率调整	1) 在TX天线测试射频功率。 低CH 2) 中央CH 3) 高CH						PC调整 40W (出厂默认)	± 1W
12. TX射频 低功率调整	1) 在TX天线测试射频功率。 低CH 2) 中央CH 3) 高CH						PC调整 25W (出厂默认)	± 1W
13. BPF调整	1) 将TG与RX天线连接,然后将 CN1与频谱分析仪的输入连接。 频谱分析仪 量程：50MHz 刻度：10dB至5dB 跟踪发生器 输出：- 30dBm	频谱分析仪 跟踪发生器	后侧 TX-RX (A/2)	RX天线 CN1	TX-RX (A/2)	L2 L4 L5	将使用的频率置于 中央,然后将波形 调整成为图1的形状。 (请参照第21页)	

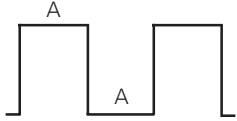
ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
14. 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 21)	
(Narrow)	2) CH : 2 (Narrow)	Spectrum analyzer	TX-RX (A/2)	CN2 CN4		L15 L16 L19	Adjust it to look like the wave Fig. 3. (Page 21)	
15. 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 AF VM Distortion meter	Rear	RX ANT TEST/SPKR jack SPO (pin 12)		L24	Adjust the distortion to minimum.	
16. 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 Audio analyzer VTVM Oscilloscope	Rear	RX ANT TEST/SPKR jack SPO (pin 12)			PC adj. Adjust to point of closing squelch	
	2) SSG : OFF						Check	Squelch must be closed.
(Narrow)	3) 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	
	4) SSG : OFF						Check	Squelch must be closed.
17. 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	
(Narrow)	2) 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	

调 整

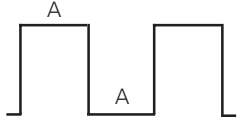
项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
14. MCF调整 (宽)	1) 将TG与CN2连接,然后将CN4与频谱分析仪的输入连接。 CH: 2 (宽) 频谱分析仪 量程: 50kHz至25kHz 刻度: 10dB至2dB 中央频率: 44.850MHz 跟踪发生器 输出: -30dBm	频谱分析仪 跟踪发生器	后侧 TX-RX (A/2)	RX天线 CN2 CN4	TX-RX (A/2)	L14 L17 L18	将波形调整成为图2的形状。 (请参照第21页)	
(窄)	2) CH: 2 (窄)					L15 L16 L19	将波形调整成为图3的形状。 (请参照第21页)	
15. 判别器调整	1) 将SSG与RX天线连接。 CH: 2 (宽) SSG输出: -53dBm/501 μ V SSG MOD: 1kHz SSG DEV: 3kHz AF: 2V/4欧姆	SSG AF VM 失真计	后侧	RX天线 试验/ 扬声器 SPO端子 (插脚12)		L24	将失真调整成为最小。	
16. 静噪阈值调整 (宽)	1) 将SSG与RX天线连接。 CH: 2 (宽) SSG输出: 3dB以下至12dB SINAD电平 SSG MOD: 1kHz SSG DEV: 3kHz AF: 2V/4欧姆	SSG 音频分析仪 VTVM 示波器	后侧	RX天线 试验/ 扬声器 SPO端子 (插脚12)			PC调整 调整至开启静噪点	
	2) SSG: 切断						检查	静噪必须关闭
(窄)	1) CH: 2 (窄) SSG输出: 3dB以下至12dB SINAD电平 SSG MOD: 1kHz SSG DEV: 1.5kHz AF: 2V/4欧姆						PC调整 调整至开启静噪点	
	2) SSG: 切断						检查	静噪必须关闭
17. 静噪精确调整 (宽)	1) 将SSG与RX天线连接。 CH: 2 (宽) SSG输出: 7dB以上至12dB SINAD电平 SSG MOD: 1kHz SSG DEV: 3kHz AF: 2V/4欧姆						PC调整 调整至开启静噪点	
(窄)	1) CH: 2 (窄) SSG输出: 7dB以下至12dB SINAD电平 SSG MOD: 1kHz SSG DEV: 1.5kHz AF: 2V/4欧姆						PC调整 调整至开启静噪点	

ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
18. RD out 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
(Narrow)	2) CH : 2 (Narrow) SSG output : -53dBm/501μV SSG MOD : 1kHz SSG DEV : 1.5kHz	DVM		CONTROL I/O jack RD (pin 10) 4.7kΩ load				
19. RA out 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
(Narrow)	2) CH : 2 (Narrow) SSG output : -53dBm/501μV SSG MOD : 1kHz SSG DEV : 1.5kHz	DVM		CONTROL I/O jack RA (pin 11) 4.7kΩ load				
20. Maximum deviation (Wide)	1) Connect AG to the MIC terminal. Low CH (TX VCO low) Center CH (VCO center) High CH (TX VCO 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
(Narrow)	2) Low CH (TX VCO low) Center CH (VCO center) High CH (TX VCO high) Transmission	AG AF VTVM	Front	MIC			PC adj. 2.05kHz	
21. DQT balance (Wide)	1) CH : 2 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 
(Narrow)	2) CH : 2 Transmission							
22. QT deviation (Wide)	1) CH : 2 Deviation meter filter HPF : OFF LPF : 3kHz De-emphasis : OFF Detector : p-p/2 Transmission			TX ANT			PC adj. 0.75kHz	±0.05kHz
(Narrow)	2) CH : 2 Transmission						PC adj. 0.35kHz	

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

调 整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
18. RD输出 电平调整 (宽)	1) 将SSG与RX天线连接。 CH : 2 (宽) SSG输出 : - 53dBm/501 μ V SSG MOD : 1kHz SSG DEV : 3kHz	SSG DVM	后侧	RX天线 控制输入 /输出 RD端子 (插脚10) 4.7k Ω 负载			PC调整 80mV	\pm 5mV
(窄)	2) CH : 2 (窄) SSG输出 : - 53dBm/501 μ V SSG MOD : 1kHz SSG DEV : 1.5kHz							
19. RA输出 电平调整 (宽)	1) 将SSG与RX天线连接。 CH : 2 (宽) SSG输出 : - 53dBm/501 μ V SSG MOD : 1kHz SSG DEV : 3kHz	SSG DVM	后侧	RX天线 控制输入 /输出 RA端子 (插脚11) 4.7k Ω 负载			PC调整 400mV	\pm 20mV
(窄)	2) CH : 2 (窄) SSG输出 : - 53dBm/501 μ V SSG MOD : 1kHz SSG DEV : 1.5kHz							
20. 最大频偏 调整 (宽)	1) 将AG连接麦克风端子。 低CH (TX VCO低) 中央CH (VCO中央) 高CH (TX VCO高) 偏差计滤波器 HPF : 关闭 LPF : 15kHz 去加重 : 关闭 AG : 1kHz/50mV (终端负载) 发射	MOD ANA 或偏差仪 示波器 AG AF VTVM	后侧 面板	TX OUT MIC			PC调整 4.1kHz	\pm 0.1kHz
(窄)	2) 低CH (TX VCO低) 中央CH (VCO中央) 高CH (TX VCO高) 发射						PC调整 2.05kHz	\pm 0.1kHz
注意： 当完成对最大频偏的调整之后，一定要对DQT平衡进行检查。								
21. DQT 平衡调整 (宽)	1) CH : 2 偏差仪滤波器 HPF : 关闭 LPF : 3kHz 去加重 : 关闭 发射	MOD ANA 或偏差仪 示波器	后侧	TX OUT			PC调整 使得解调波形为 方波	示波器DC范围 平坦的“A”部分。 
(窄)	2) CH : 2 发射							
22. QT 频偏调整 (宽)	1) CH : 2 偏差仪滤波器 HPF : 关闭 LPF : 3kHz 去加重 : 关闭 检波器 : p-p/2 发射			TX天线			PC调整 0.75kHz	\pm 0.05kHz
(窄)	2) CH : 2 发射						PC调整 0.35kHz	\pm 0.05kHz

ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
23. DQT deviation (Wide)	1) CH : 2 Deviation meter filter HPF : OFF LPF : 3kHz De-emphasis : OFF Detector : Peak hold Transmission	MOD ANA or Deviation meter Oscilloscope	Rear	TX ANT			PC adj. 0.75kHz	±0.05kHz
	(Narrow)							
24. CW ID deviation (Wide)	1) CH2 Deviation meter filter HPF : OFF LPF : 15kHz De-emphasis : OFF Transmission						PC adj. 2kHz	±0.1kHz
	(Narrow)							
25. Test tone deviation (Wide)	1) CH : 2 Deviation meter filter HPF : OFF LPF : 15kHz De-emphasis : OFF Transmission						PC adj. 3kHz	±0.1kHz
	(Narrow)							
26. TA (TX audio input) deviation (Wide)	1) Insert AG output into the control I/O TA terminal (pin 9). CH : 2 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
	(Narrow)							
27. TD deviation (Wide)	1) Insert AG output into the control I/O TD terminal (pin 8). CH : 2 Deviation meter filter HPF : OFF LPF : 3kHz De-emphasis : OFF AG freq' : 100Hz (Sine wave) AG level : 0.5Vp-p (177mVrms) Transmission			CONTROL I/O jack TD (pin 8)			PC adj. 0.75kHz	±0.1kHz
	(Narrow)							
28. DTMF deviation (Wide)	1) CH : 2 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
	(Narrow)							

调 整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
23. DQT 频偏调整 (宽)	1) CH : 2 偏差仪滤波器 HPF : 关闭 LPF : 3kHz 去加重 : 关闭 检波器 : 峰值保持 发射	MOD ANA 或偏差仪 示波器	后侧	TX天线			PC调整 0.75kHz	$\pm 0.05\text{kHz}$
(窄)	2) CH : 2 发射						PC调整 0.35kHz	$\pm 0.05\text{kHz}$
24. CW ID 频偏调整 (宽)	1) CH : 2 偏差仪滤波器 HPF : 关闭 LPF : 15kHz 去加重 : 关闭 发射						PC调整 2kHz	$\pm 0.1\text{kHz}$
(窄)	2) CH : 2 发射						PC调整 1kHz	$\pm 0.05\text{kHz}$
25. 试验音 频偏调整 (宽)	1) CH : 2 偏差仪滤波器 HPF : 关闭 LPF : 15kHz 去加重 : 关闭 发射						PC调整 3kHz	$\pm 0.1\text{kHz}$
(窄)	2) CH : 2 发射						PC调整 1.5kHz	$\pm 0.05\text{kHz}$
26. TA (TX音输入) 频偏调整 (宽)	1) 将AG输出插入控制输入/输出TA端子(插脚9) CH : 2 偏差仪滤波器 HPF : 关闭 LPF : 15kHz 去加重 : 关闭 AG频率 : 1kHz (正弦波) AG电平 : 280mV 发射	MOD ANA 或偏差仪 示波器 AG AF VTVM	后侧	TX天线 控制输入 /输出 TA端子 (插脚9)			PC调整 3.0kHz	$\pm 0.1\text{kHz}$
(窄)	2) CH : 2 发射						PC调整 1.5kHz	$\pm 0.05\text{kHz}$
27. TD 频偏调整 (宽)	1) 将AG输出插入控制输入/输出TD端子(插脚8) CH : 2 偏差仪滤波器 HPF : 关闭 LPF : 3kHz 去加重 : 关闭 AG频率 : 100Hz (正弦波) AG电平 : 0.5V _{p-p} (177mV _{rms}) 发射			控制输入 /输出 TD端子 (插脚8)			PC调整 0.75kHz	$\pm 0.1\text{kHz}$
(窄)	2) CH : 2 发射						PC调整 0.35kHz	$\pm 0.05\text{kHz}$
28. DTMF 频偏调整 (宽)	1) CH : 2 偏差仪滤波器 HPF : 关闭 LPF : 15kHz 去加重 : 关闭 发射	MOD ANA 或偏差仪 示波器	后侧	TX天线			PC调整 3.0kHz	$\pm 0.1\text{kHz}$
(窄)	2) CH : 2 发射						PC调整 1.5kHz	$\pm 0.05\text{kHz}$

ADJUSTMENT

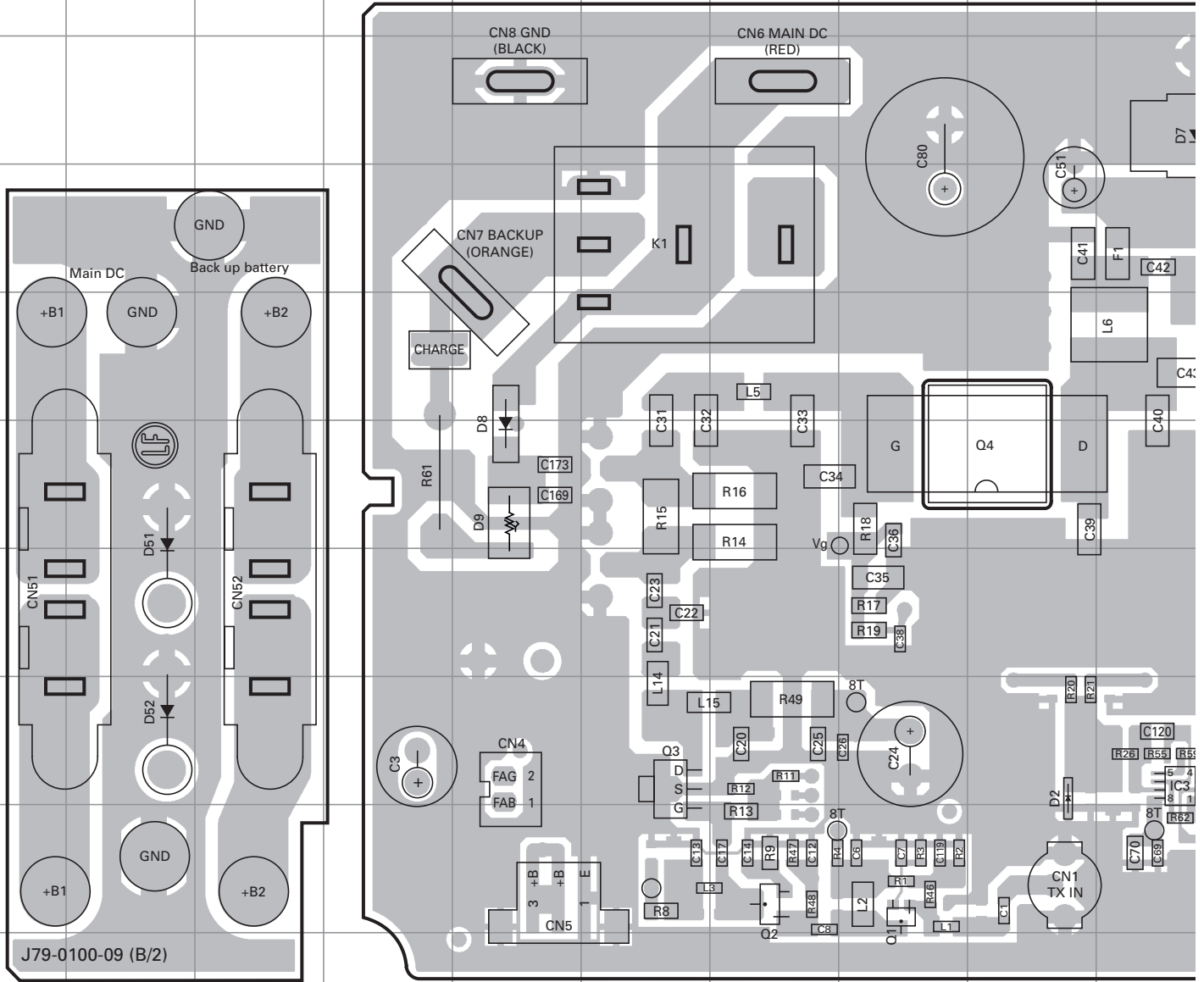
Item	Condition	Measurement			Adjustment			Specifications/Remarks						
		Test-equipment	Unit	Terminal	Unit	Parts	Method							
29. Courtesy tone deviation (Wide)	1) CH : 2 Deviation meter filter HPF : OFF LPF : 15kHz De-emphasis : OFF Transmission	MOD ANA or Deviation meter Oscilloscope	Rear	TX ANT			PC adj. 1.0kHz	±0.05kHz						
	(Narrow)							2) CH : 2 Transmission	PC adj. 0.5kHz	±0.05kHz				
30. Battery warning tone deviation (Wide)	1) CH : 2 Deviation meter filter HPF : OFF LPF : 15kHz De-emphasis : OFF Transmission							PC adj. 3.0kHz	±0.1kHz					
	(Narrow)							2) CH : 2 Transmission	PC adj. 1.5kHz	±0.05kHz				
31. Battery operation tone deviation (Wide)	1) CH : 2 Deviation meter filter HPF : OFF LPF : 15kHz De-emphasis : OFF Transmission							PC adj. 1.0kHz	±0.05kHz					
	(Narrow)							2) CH : 2 Transmission	PC adj. 0.5kHz	±0.05kHz				
32. 5-tone deviation (E type only) (Wide)	1) CH : 2 Deviation meter filter HPF : OFF LPF : 15kHz De-emphasis : OFF Transmission							PC adj. 3.0kHz	±0.1kHz					
	(Narrow)							2) CH : 2 Transmission	PC adj. 1.5kHz	±0.05kHz				
33. Repeat gain level (Wide)	1) CH : 2 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
	(Narrow)									2) CH : 2 Transmission				
When "RF Power Down Detect" is programmed in the AUXO function, threshold of transmission output is set with the following menu.														
34. Power down detect (High)	1) CH : 2 (High power)	Power meter	Rear	TX ANT			PC adj. About 16W (Factory-default)							
	(Low)							2) CH : 2 (Low power)	PC adj. About 10W (Factory-default)					

调 整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
29. 发射停止 音频偏调整 (宽)	1) CH : 2 偏差仪滤波器 HPF : 关闭 LPF : 15kHz 去加重 : 关闭 发射						PC调整 1.0kHz	± 0.05kHz
(窄)	2) CH : 2 发射						PC调整 0.5kHz	± 0.05kHz
30. 电池警告 音频偏调整 (宽)	1) CH : 2 偏差仪滤波器 HPF : 关闭 LPF : 15kHz 去加重 : 关闭 发射						PC调整 3.0kHz	± 0.1kHz
(窄)	2) CH : 2 发射						PC调整 1.5kHz	± 0.05kHz
31. 电池 操作音 频偏调整 (宽)	1) CH : 2 偏差仪滤波器 HPF : 关闭 LPF : 15kHz 去加重 : 关闭 发射						PC调整 1.0kHz	± 0.05kHz
(窄)	2) CH : 2 发射						PC调整 0.5kHz	± 0.05kHz
32. 5音 频偏调整 (E类型唯一 调整) (宽)	1) CH : 2 偏差仪滤波器 HPF : 关闭 LPF : 15kHz 去加重 : 关闭 发射						PC调整 3.0kHz	± 0.1kHz
(窄)	2) CH : 2 发射						PC调整 1.5kHz	± 0.05kHz
33. 中继增益 电平调整 (宽)	1) CH : 2 SSG输出 : - 53dBm SSG MOD : 1kHz SSG DEV : 1kHz 偏差仪滤波器 HPF : 关闭 LPF : 15kHz 去加重 : 关闭 发射	SSG MOD ANA 或偏差仪 示波器	后侧	RX天线 TX天线			PC调整 1kHz	± 0.1kHz
(窄)	2) CH : 2 发射							
当把“RF Power Down Detect”(RF功率下降检测)编程到AUXO功能时,发射输出的门槛值由下列菜单设定。								
34. 功率下降 检测调整 (高)	1) CH : 2 (高功率)	功率计	后侧	TX天线			PC调整 大约16W (出厂默认)	
(低)	2) CH : 2 (低功率)						PC调整 大约10W (出厂默认)	

TKR-850 PC BOARD / PC板

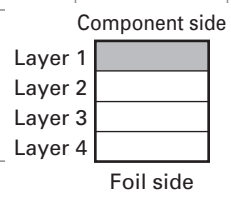
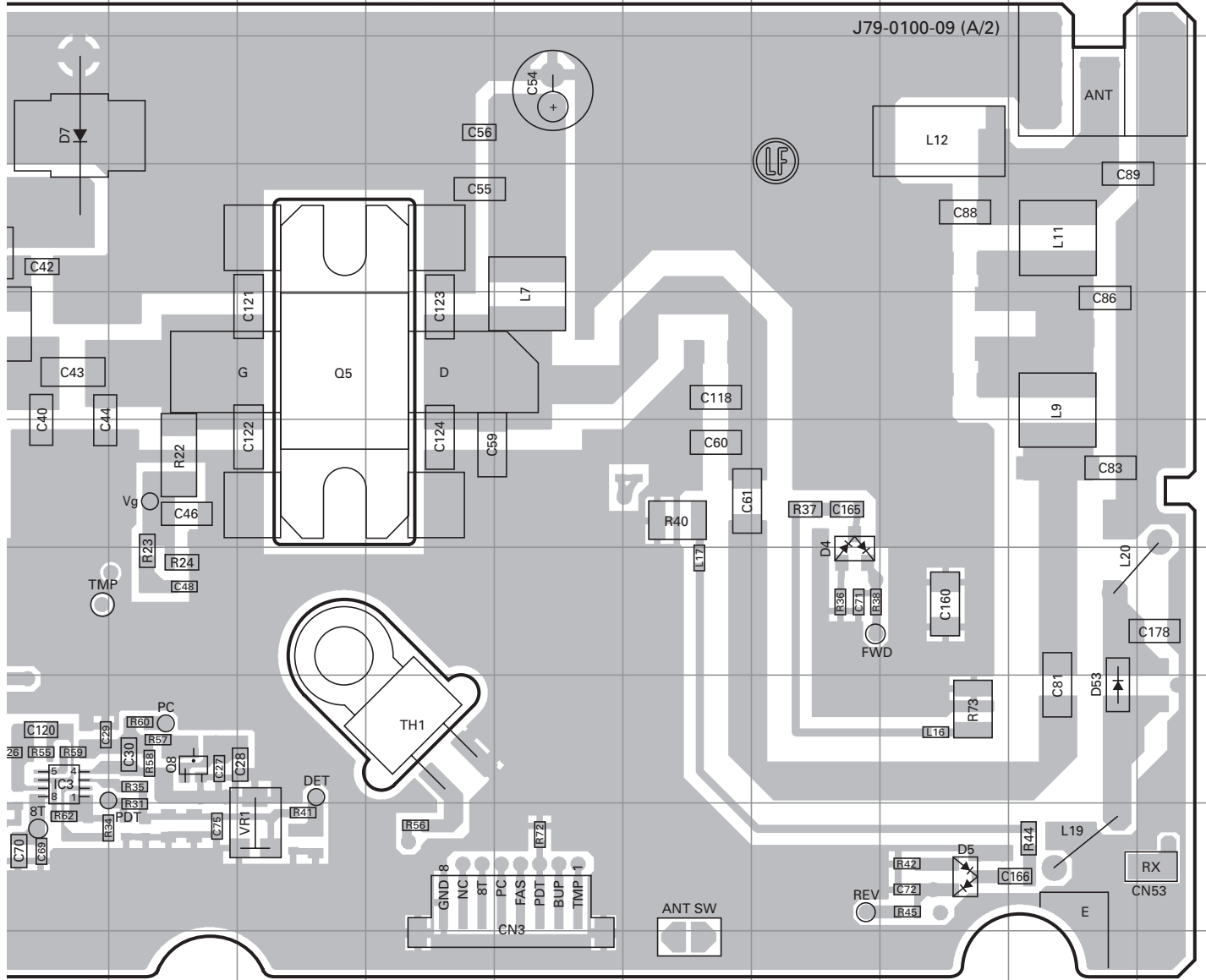
FINAL UNIT (X45-374X-XX) 0-10 : K,E,C 0-12 : K3,C3 3-01 : C6
 Component side view (J79-0100-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC3	8J	Q4	6I	D4	7P	D9	6E
Q1	9H	Q5	5L	D5	9Q	D51	7B
Q2	9G	Q8	8K	D7	3J	D52	8B
Q3	8F	D2	8I	D8	6E	D53	8R

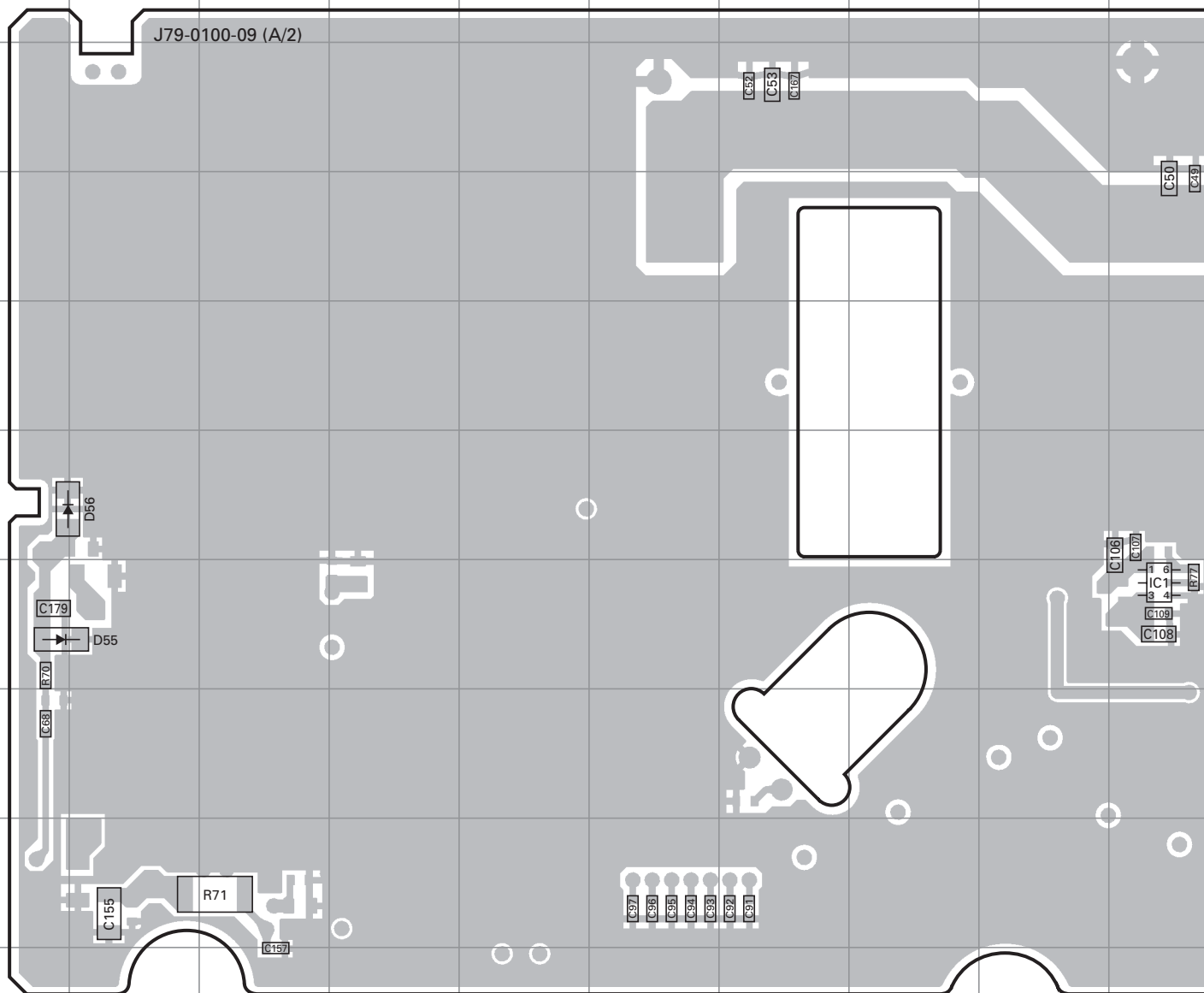
PC BOARD / PC板 TKR-850

FINAL UNIT (X45-374X-XX) 0-10 : K,E,C 0-12 : K3,C3 3-01 : C6
 Component side view (J79-0100-00)



TKR-850 PC BOARD / PC板

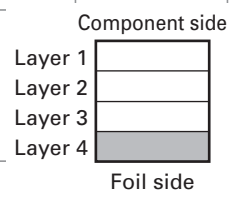
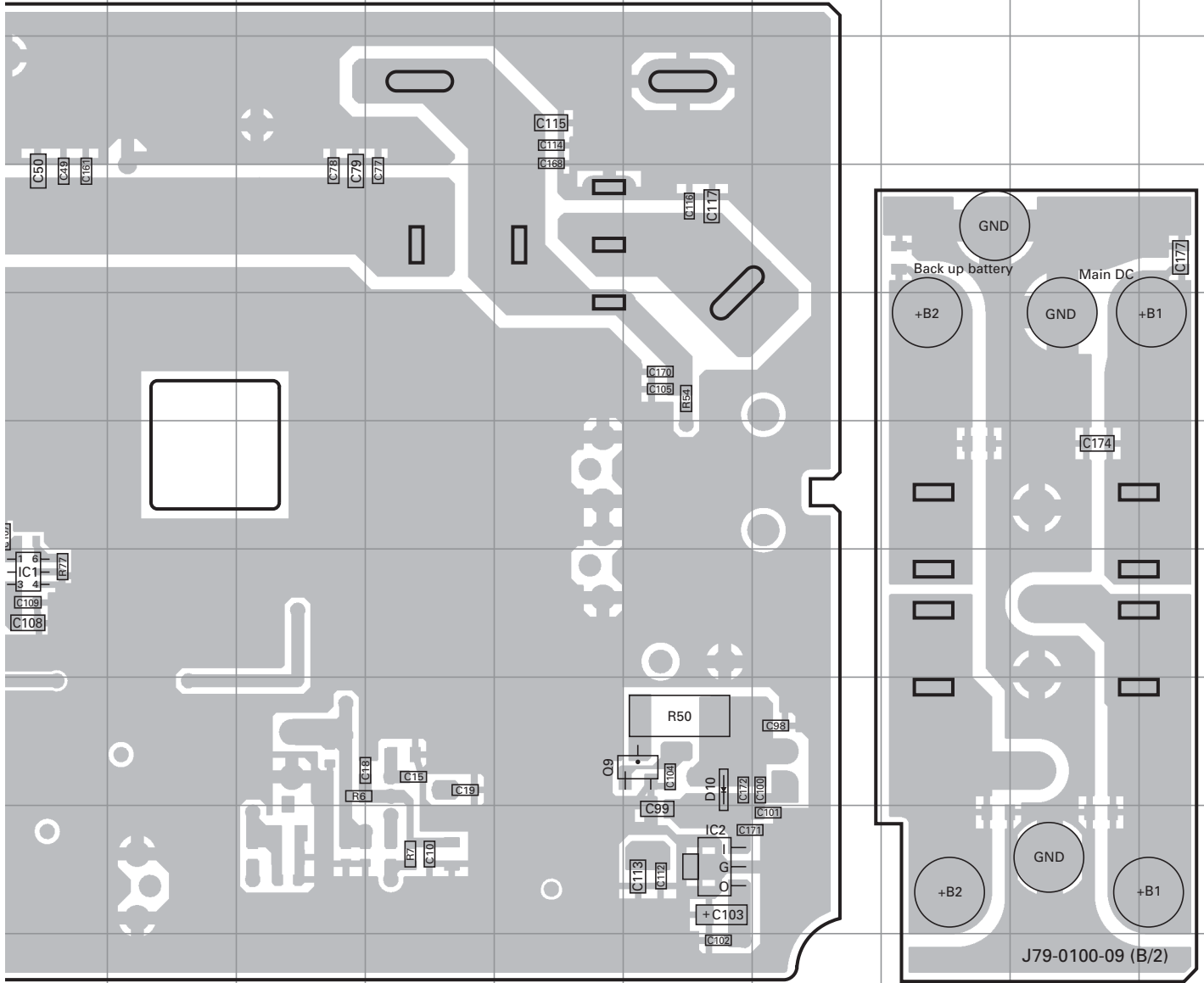
FINAL UNIT (X45-374X-XX) 0-10 : K,E,C 0-12 : K3,C3 3-01 : C6
 Foil side view (J79-0100-09)



Ref. No.	Address	Ref. No.	Address
IC1	7J	D10	8O
IC2	9O	D55	6A
Q9	8O	D56	7A

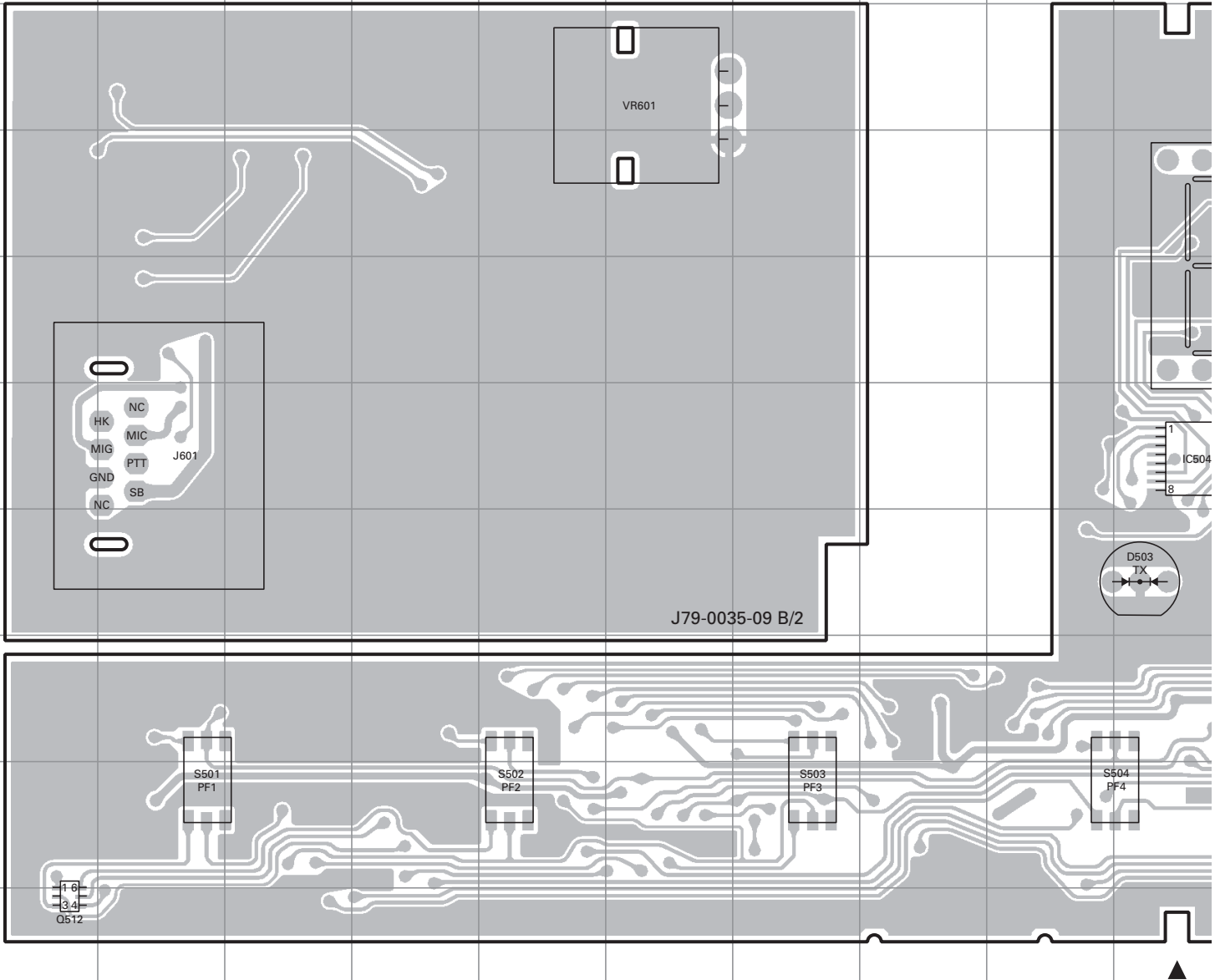
PC BOARD / PC板 TKR-850

FINAL UNIT (X45-374X-XX) 0-10 : K,E,C 0-12 : K3,C3 3-01 : C6
 Foil side view (J79-0100-00)



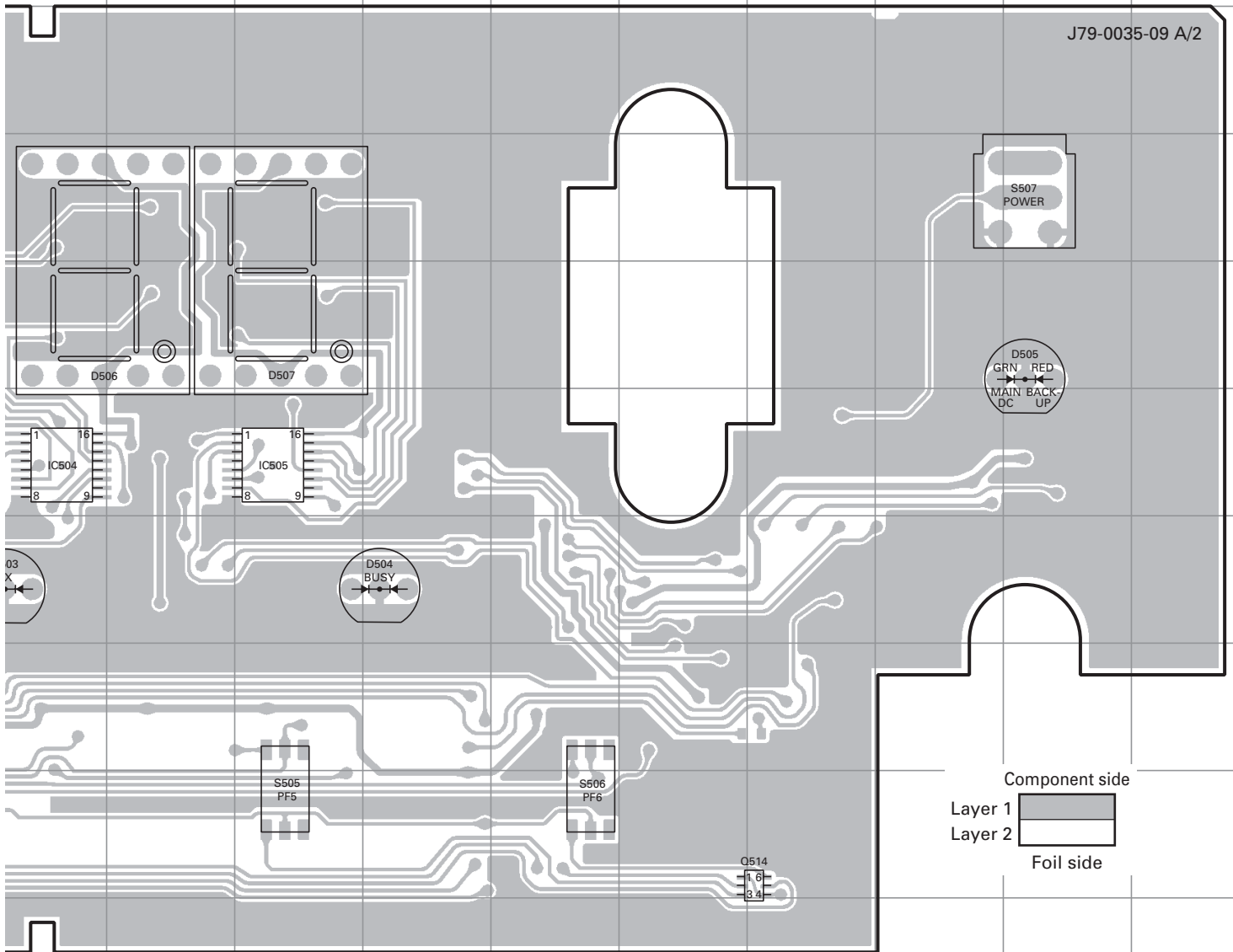
TKR-850 PC BOARD / PC板

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



PC BOARD / PC板 TKR-850

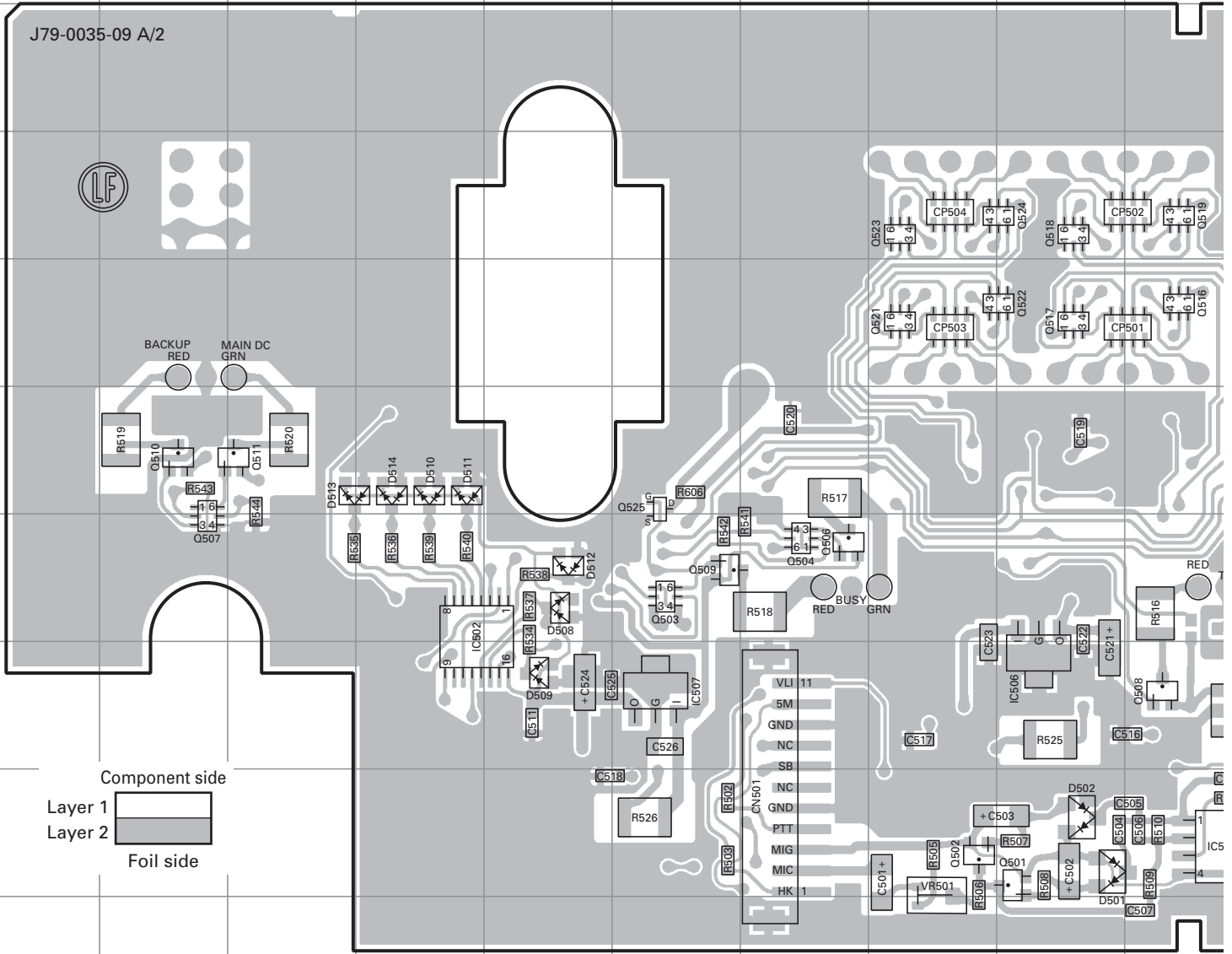
DISPLAY UNIT (X54-3580-20) Component side view (J79-0035-09)



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

TKR-850 PC BOARD / PC板

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

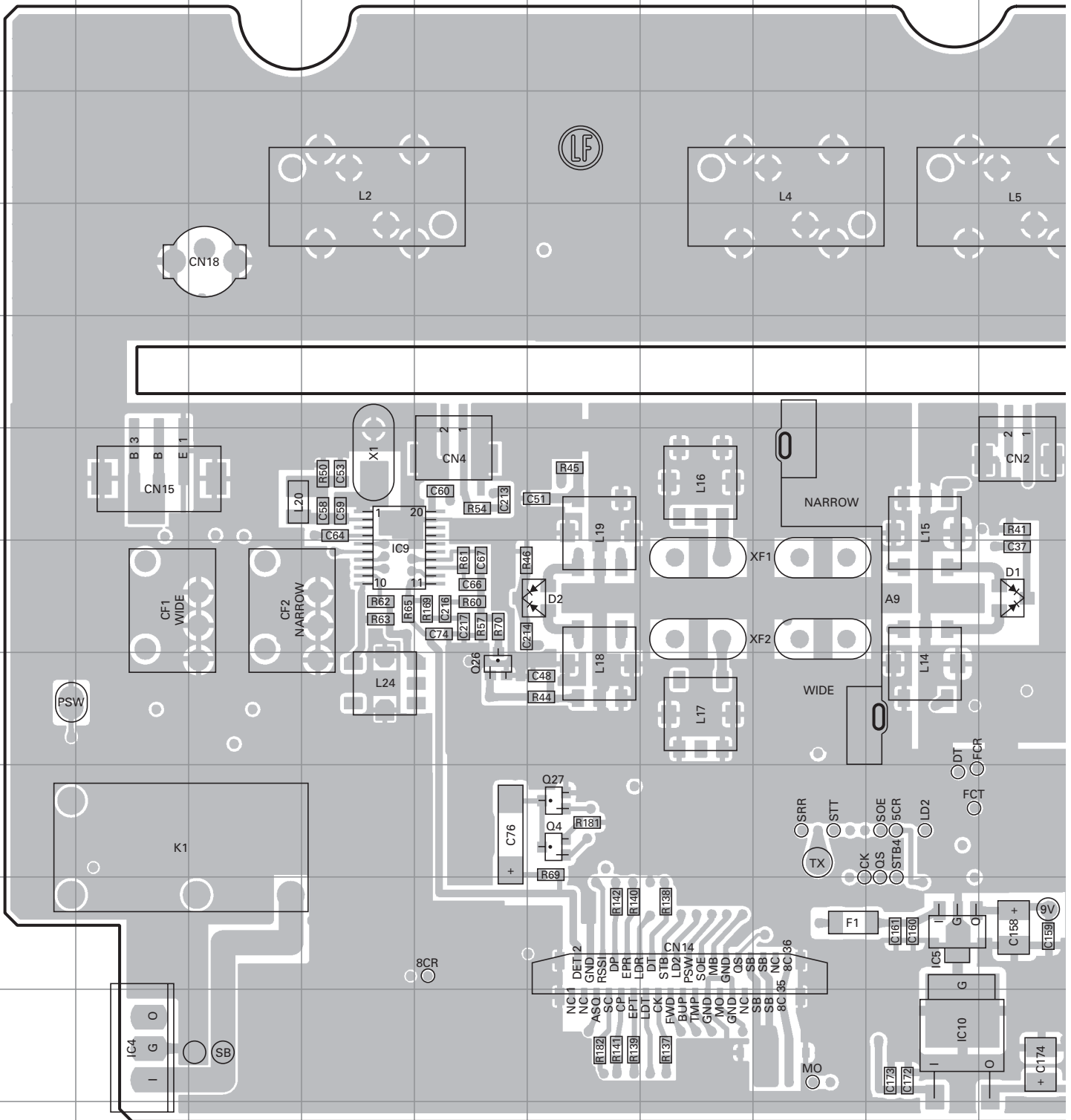


Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC501	9J	Q507	7B	Q521	5H	D511	6D
IC502	7D	Q508	8J	Q522	5I	D512	7E
IC503	9P	Q509	7F	Q523	4H	D513	6C
IC506	8I	Q510	6B	Q524	4I	D514	6D
IC507	8F	Q511	6C	Q525	6F	D601	5R
Q501	9I	Q513	9N	D501	9I	D602	4R
Q502	9H	Q516	5J	D502	9I	D603	4R
Q503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

TKR-850 PC BOARD / PC板

TX-RX UNIT (X57-696X-XX) (A/2) 0-11 : K,C 0-13 : K3,C3 2-70 : E 3-01 : C6

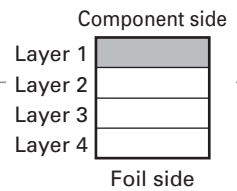
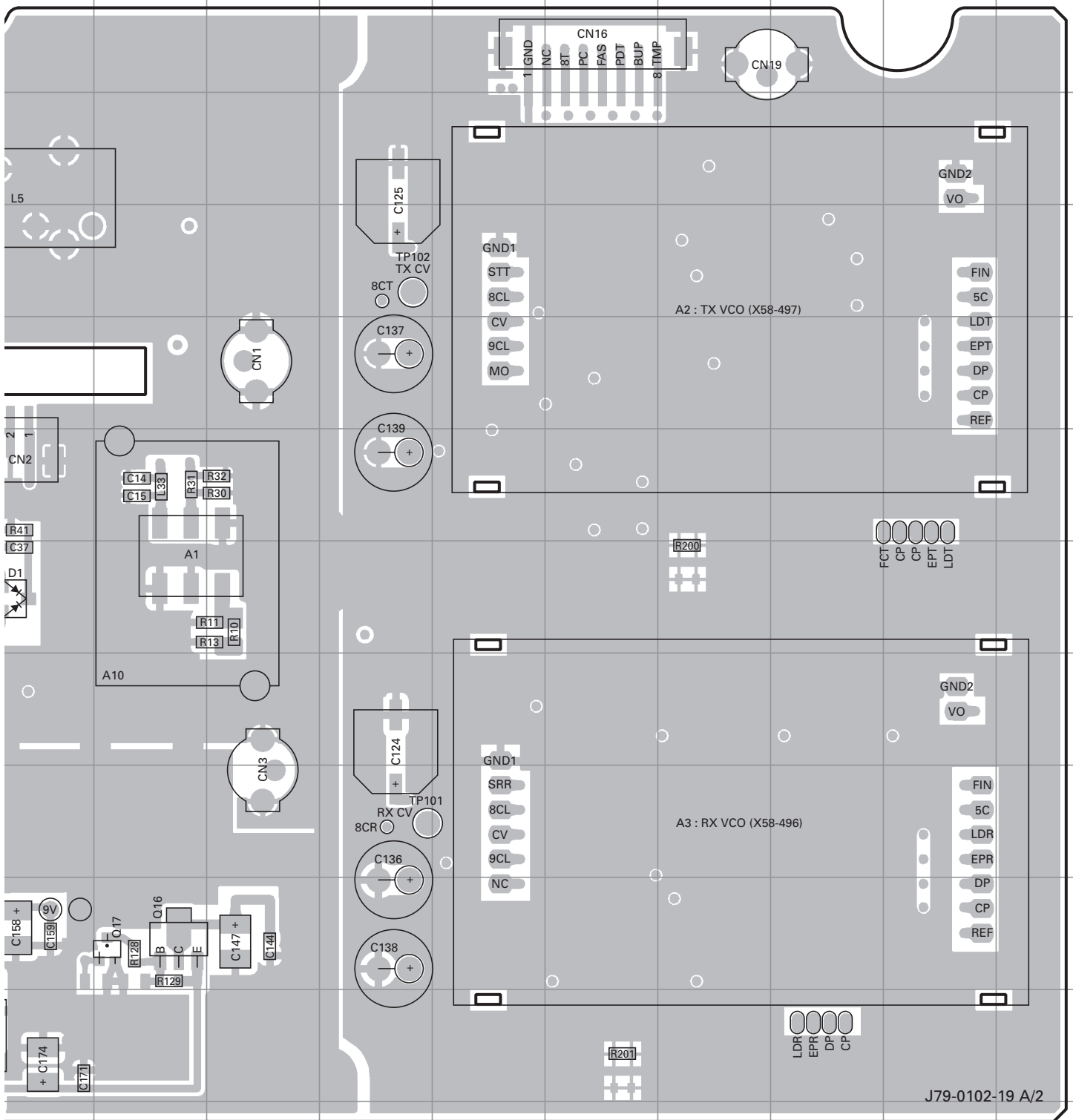
Component side view (J79-0102-19 A/2)



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 / PC板 TKR-850

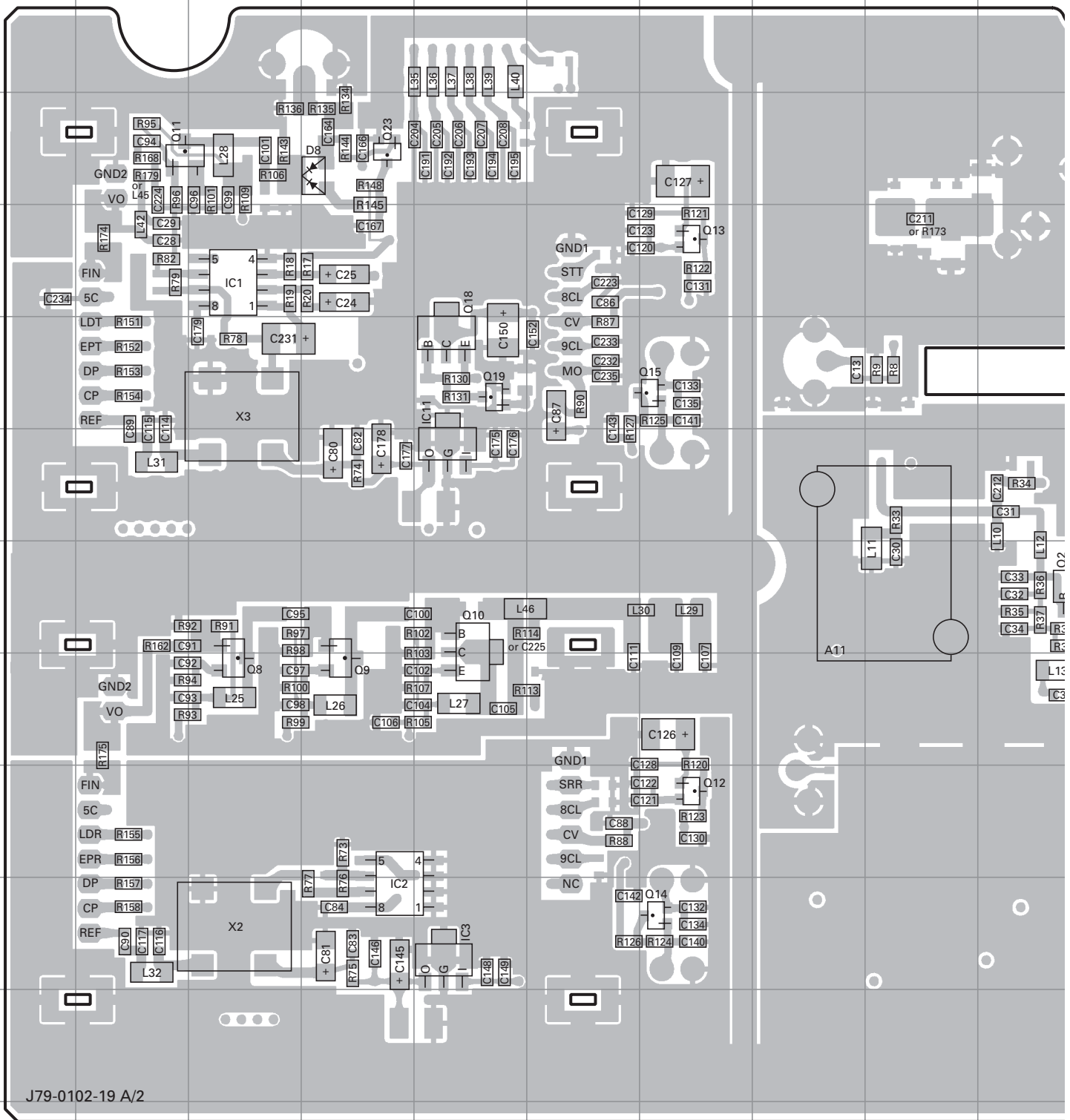
TX-RX UNIT (X57-696X-XX) (A/2) 0-11 : K,C 0-13 : K3,C3 2-70 : E 3-01 : C6
 Component side view (J79-0102-19 A/2)



TKR-850 PC BOARD / PC板

TX-RX UNIT (X57-696X-XX) (A/2) 0-11 : K,C 0-13 : K3,C3 2-70 : E 3-01 : C6

Foil side view (J79-0102-19 A/2)

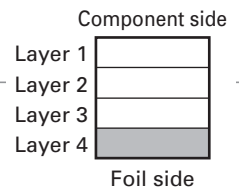
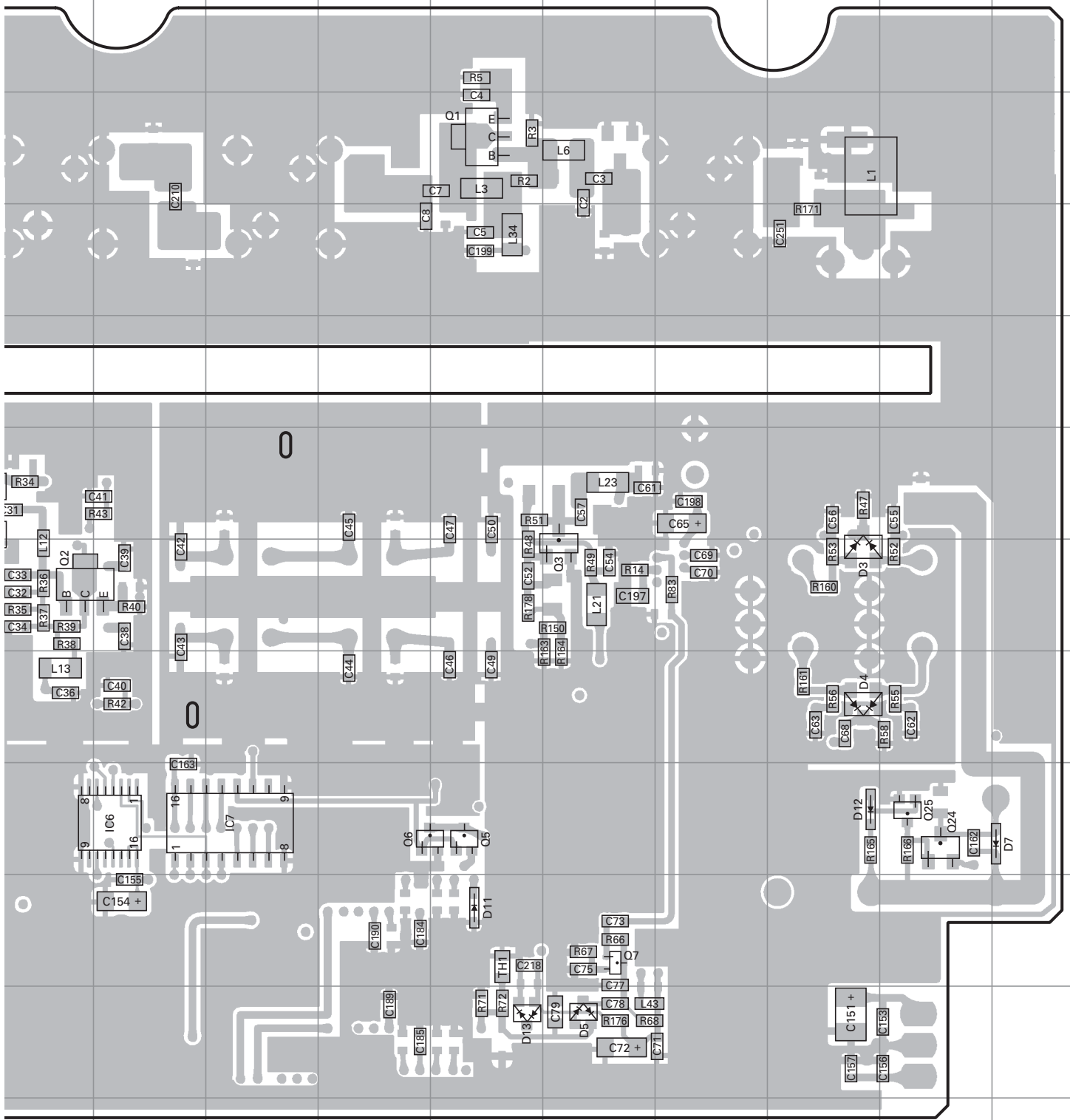


J79-0102-19 A/2

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

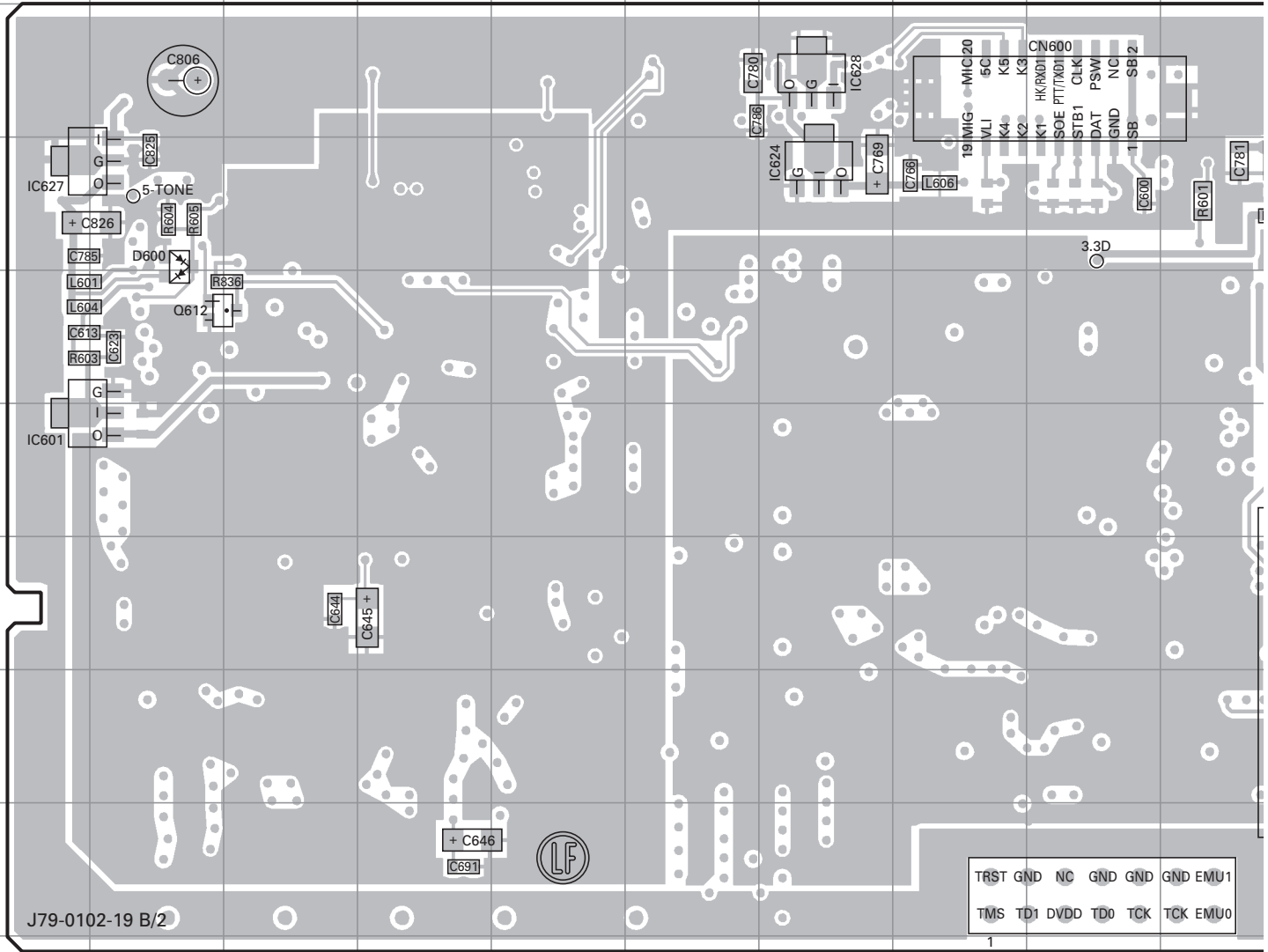
PC BOARD / PC板 TKR-850

TX-RX UNIT (X57-696X-XX) (A/2) 0-11 : K,C 0-13 : K3,C3 2-70 : E 3-01 : C6
 Foil side view (J79-0102-19 A/2)



TKR-850 PC BOARD / PC板

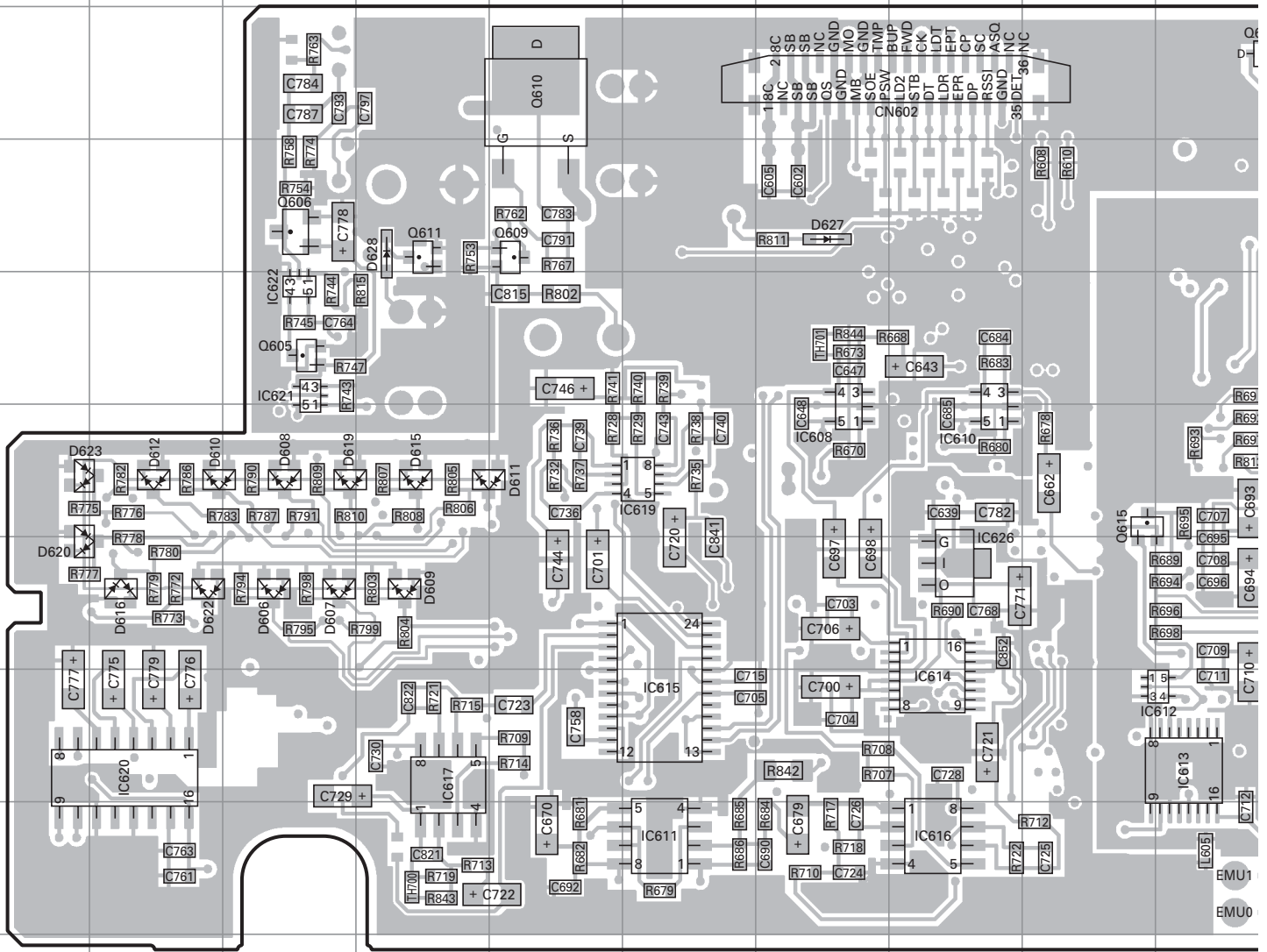
TX-RX UNIT (X57-696X-XX) (B/2) 0-11 : K,C 0-13 : K3,C3 2-70 : E 3-01 : C6
 Component side view (J79-0102-19 B/2)



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-850 PC BOARD / PC板

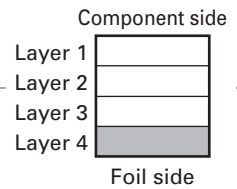
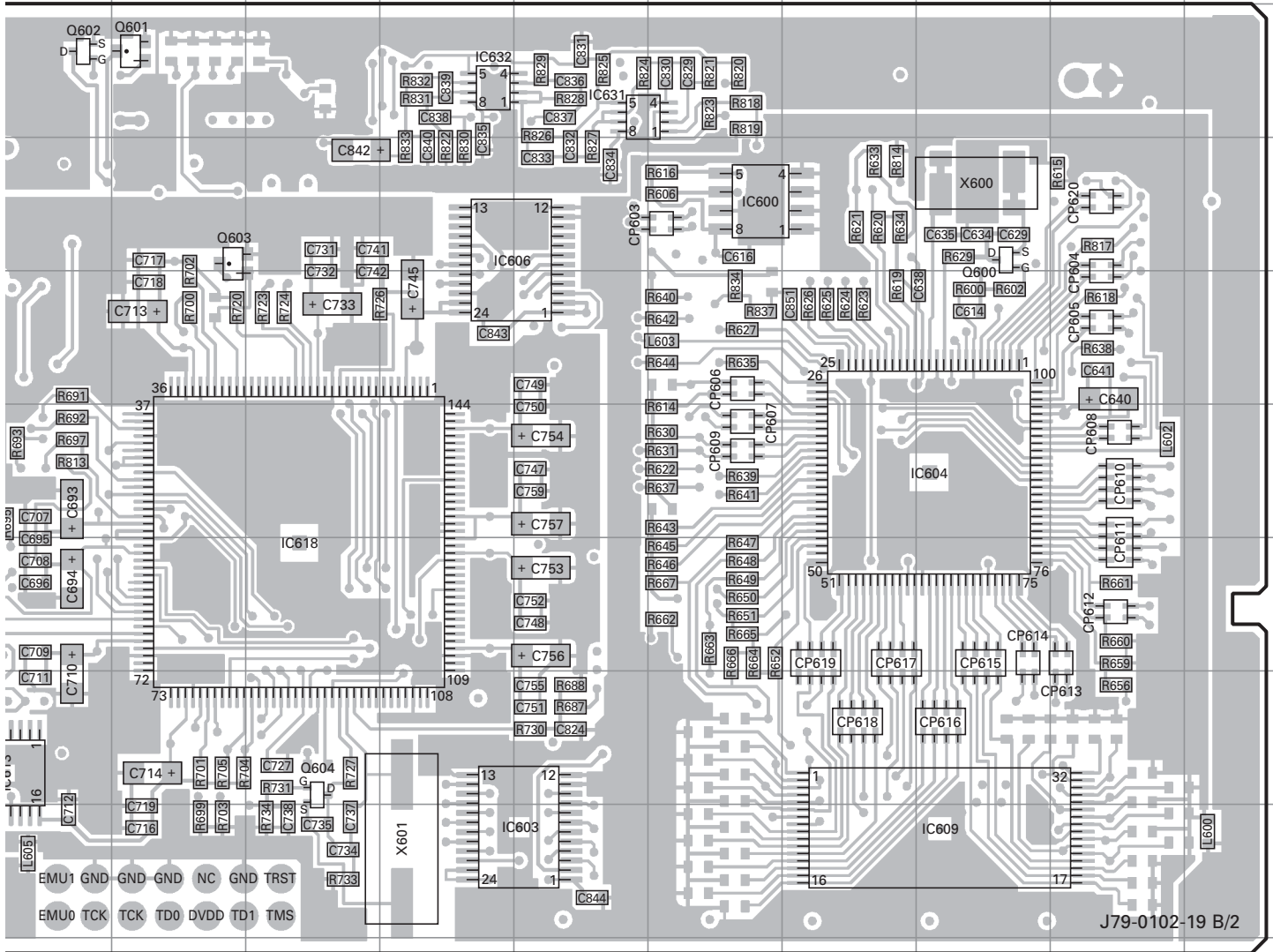
TX-RX UNIT (X57-696X-XX) (B/2) 0-11 : K,C 0-13 : K3,C3 2-70 : E 3-01 : C6
Foil side view (J79-0102-19 B/2)



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 / PC板 TKR-850

TX-RX UNIT (X57-696X-XX) (B/2) 0-11 : K,C 0-13 : K3,C3 2-70 : E 3-01 : C6
Foil side view (J79-0102-19 B/2)

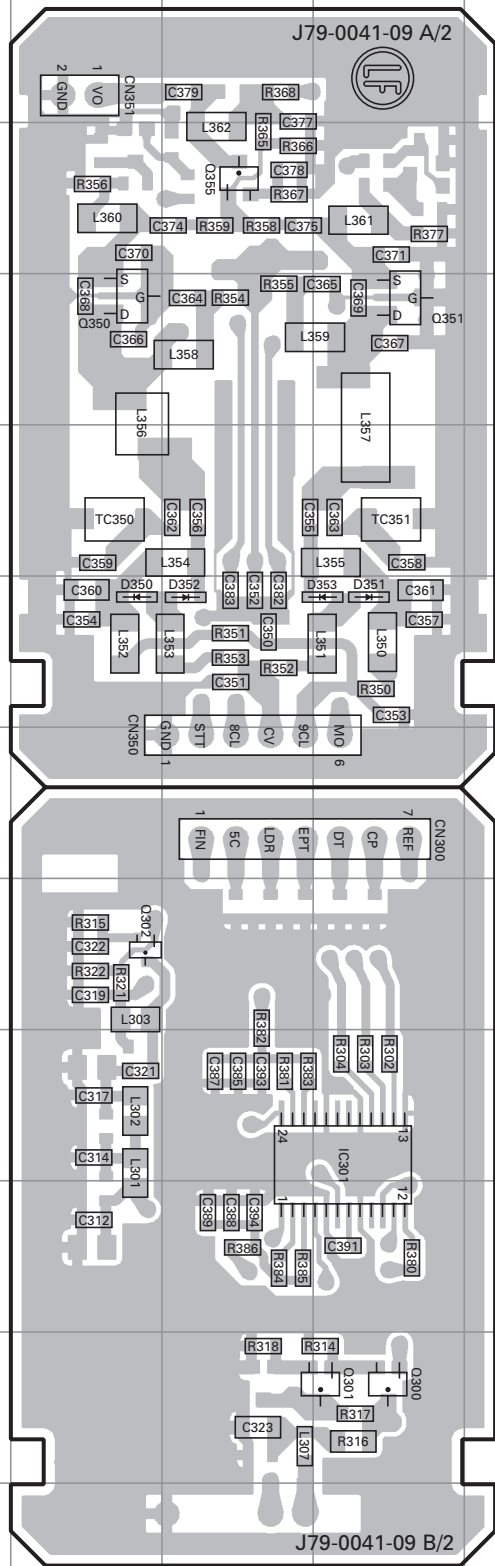
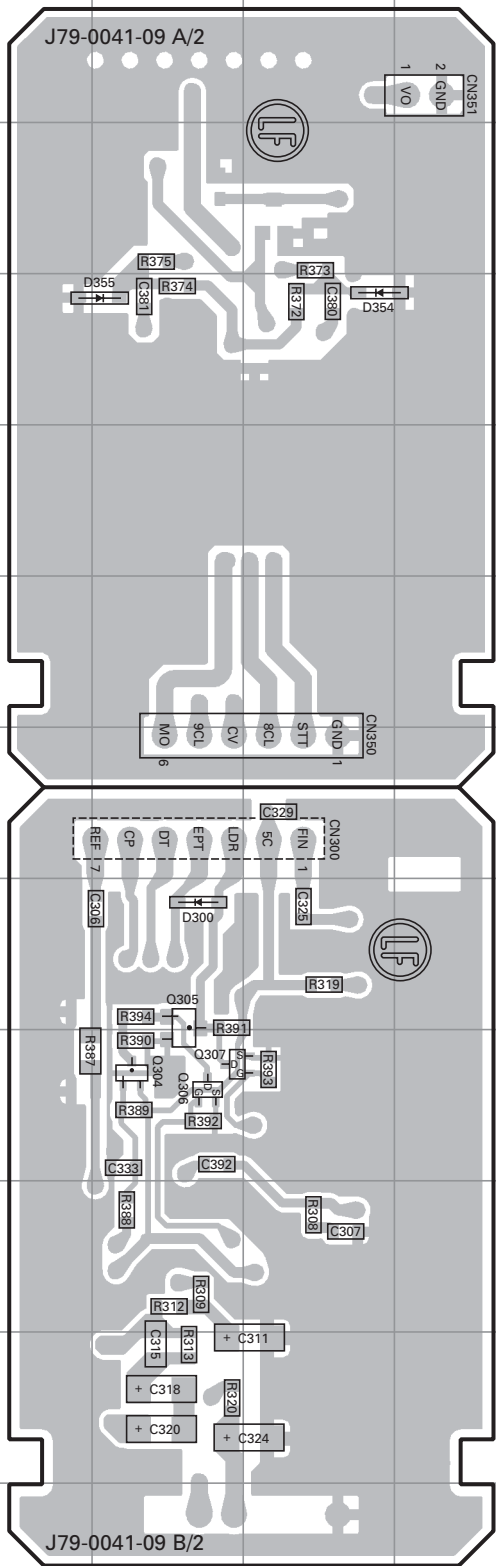


PC BOARD / PC板 TKR-850

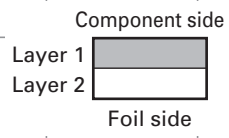
TX VCO UNIT (X58-497X-XX) 2-70 : K,E,C 2-71 : K3,C3 3-01 : C6 (J79-0041-09)

Component side view

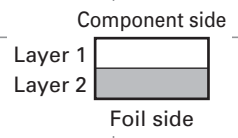
Foil side view



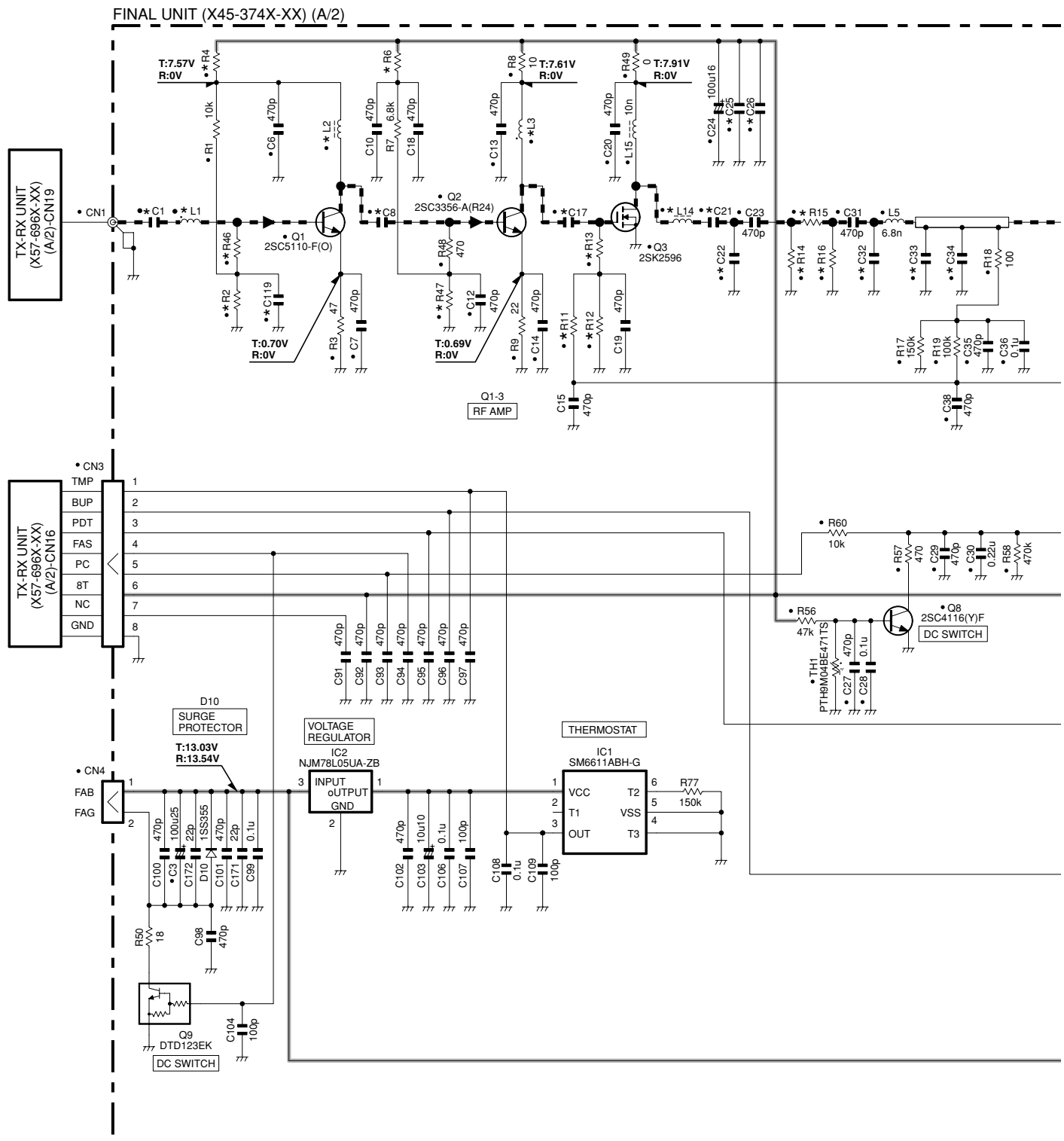
Ref. No.	Address	Ref. No.	Address
Q304	9B	D300	8B
Q305	8B	D354	4C
Q306	9B	D355	4B
Q307	9B		



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



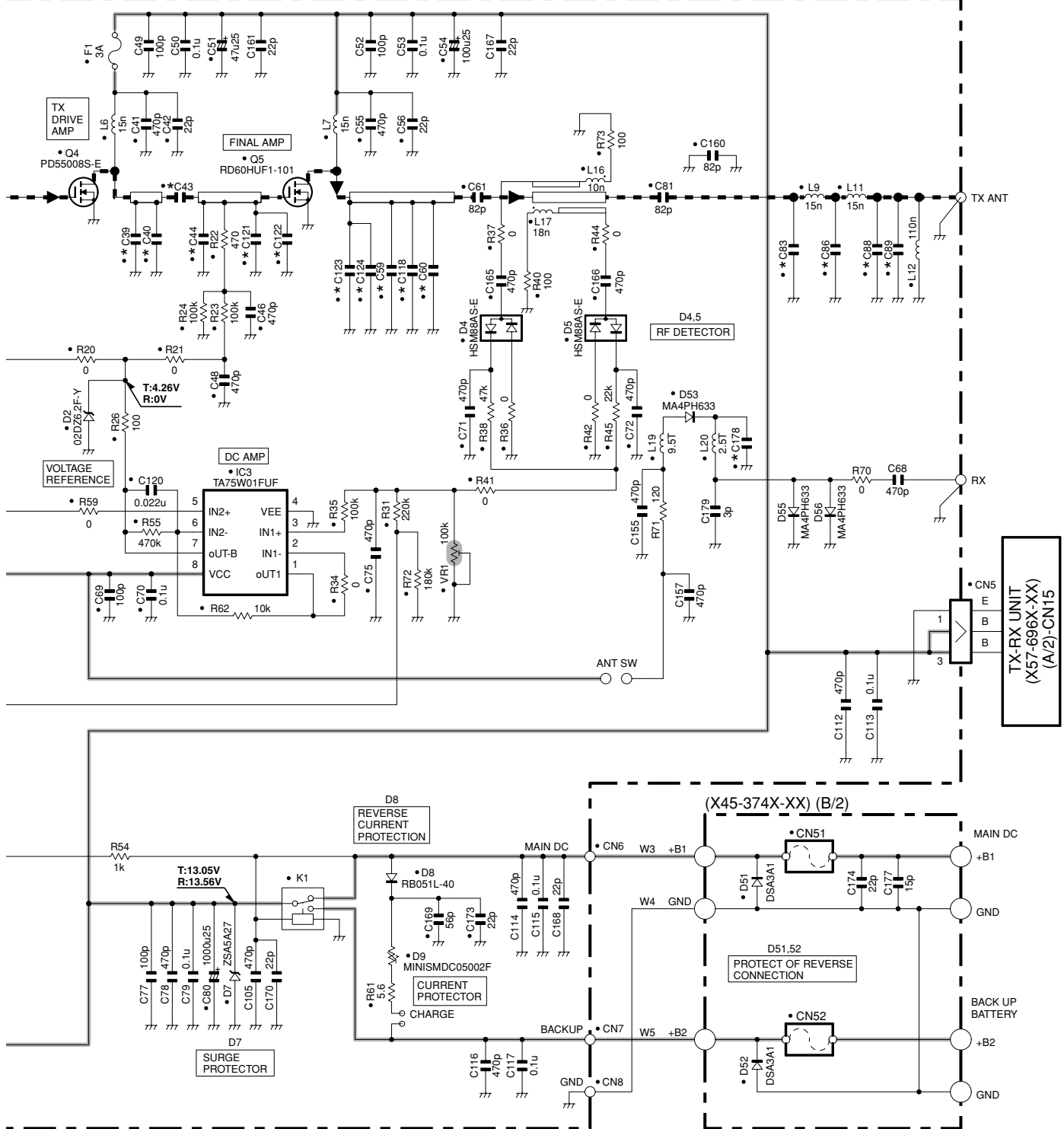
TKR-850 SCHEMATIC DIAGRAM / 原理图



X45-374X-XX	L1	L2	L3	L14	R2	R4	R6	R11	R12	R13	R14	R15	R16	R46	R47	C1	C8	C17	C21	C22	C25	C26	C32	C33	C34	C119	
0-10	K,E,C	10n	10n	18n	15n	2.2k	22	47	100k	18k	47	1k	5.6	1k	470	2.2k	470p	8p	5p	12p	6p	NO	470p	8p	27p	27p	470p
0-12	K3,C3	3.9n	27n	8.2n	10n	4.7k	10	10	33k	15k	22	270	18	270	0	3.3k	10p	10p	56p	22p	12p	NO	100p	8p	39p	39p	NO
3-01	C6	3.9n	27n	8.2n	10n	4.7k	10	10	33k	15k	22	180	33	180	0	3.3k	10p	10p	56p	22p	12p	0.1u	100p	10p	47p	47p	NO

SCHEMATIC DIAGRAM / 原理图 TKR-850

FINAL UNIT (X45-374X-XX) (A/2)

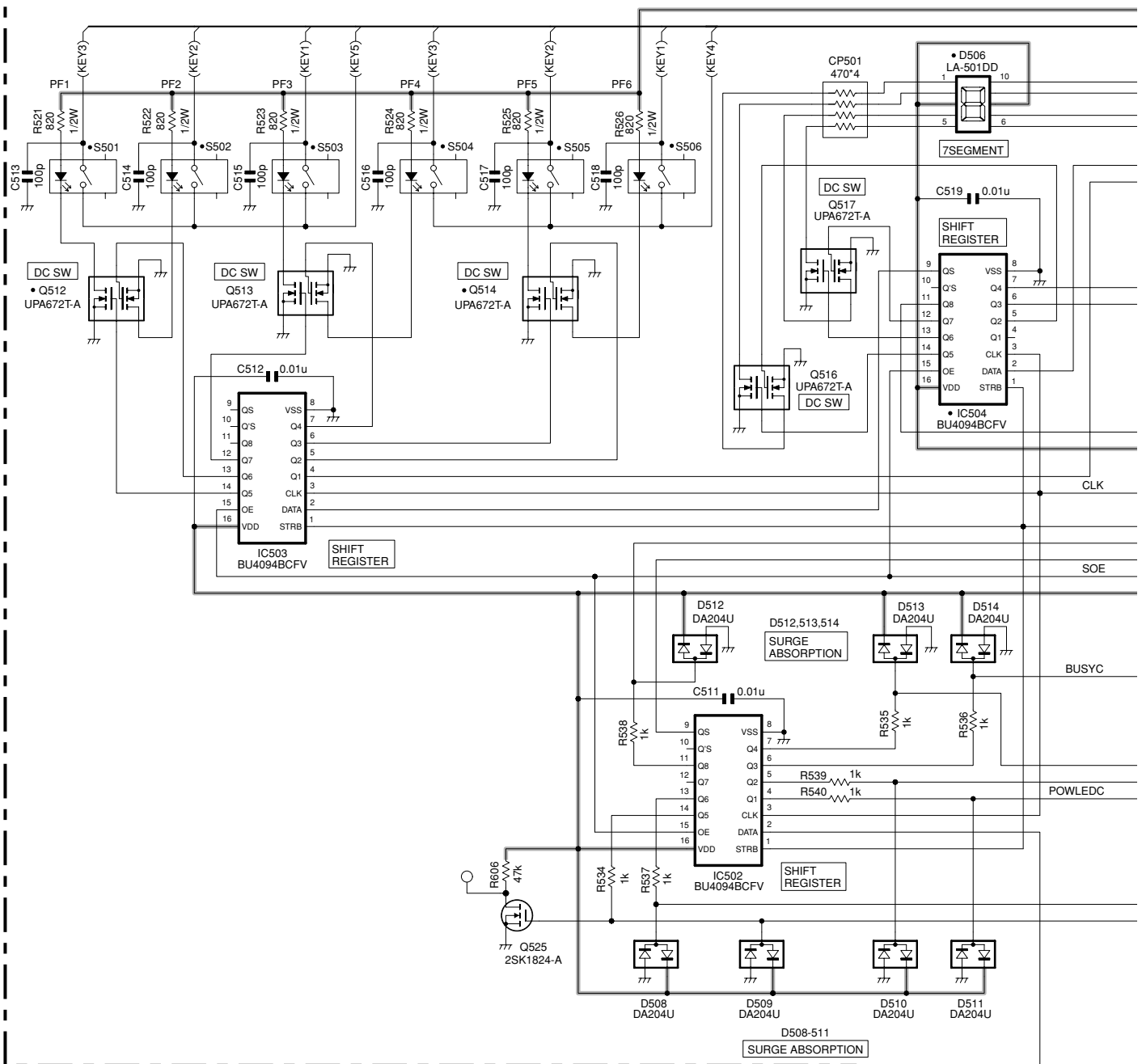


X45-374X-XX	C39	C40	C43	C44	C59	C60	C83	C86	C88	C89	C118	C121	C122	C123	C124	C178
0-10	K.E.C	12p	22p	22p	6p	10p	NO	6p	10p	NO	5p	4p	15p	15p	22p	3p
0-12	K3.C3	18p	NO	22p	10p	12p	8p	7p	12p	6p	NO	NO	18p	18p	27p	27p
3-01	C6	22p	NO	39p	10p	27p	10p	10p	18p	NO	10p	NO	22p	22p	27p	5p

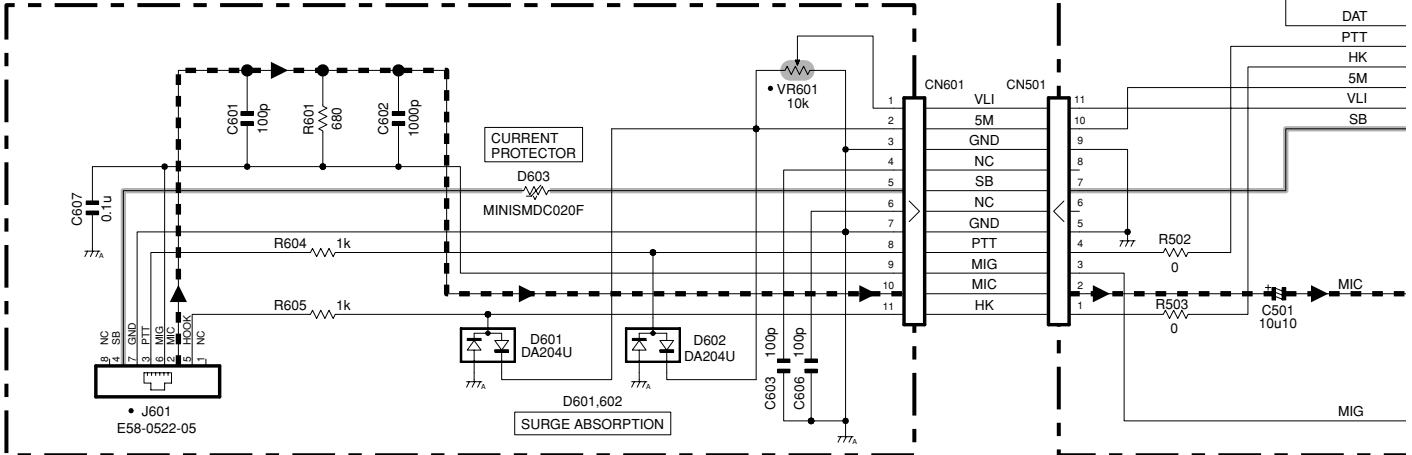
Note : The components marked with a dot (•) are parts of layer 1.

TKR-850 SCHEMATIC DIAGRAM / 原理图

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

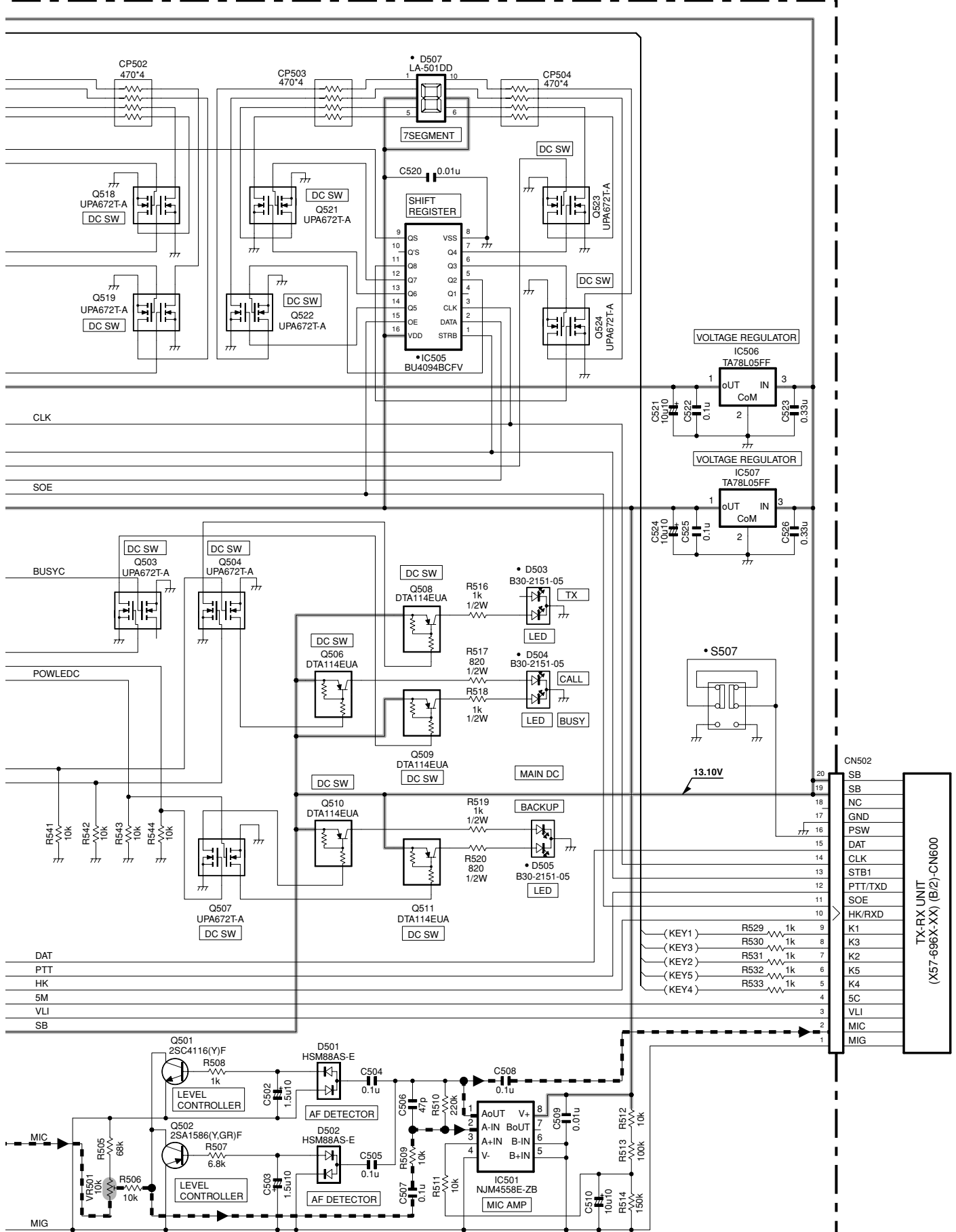


DISPLAY UNIT (X54-3580-20) (B/2)



SCHEMATIC DIAGRAM / 原理图 TKR-850

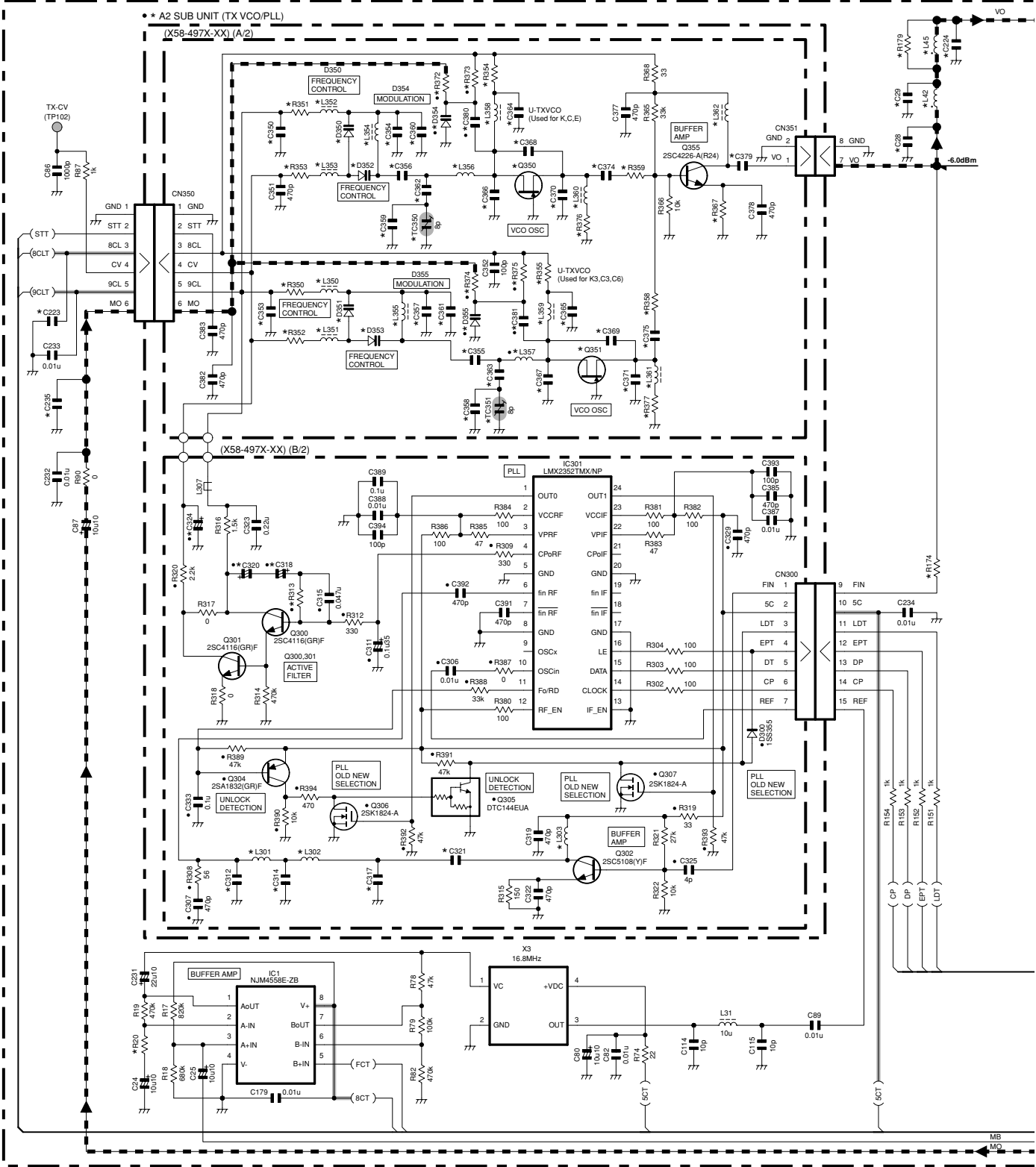
DISPLAY UNIT (X54-3580-20) (A/2)



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

TKR-850 SCHEMATIC DIAGRAM / 原理图

TX-RX UNIT (X57-696X-XX) (A/2)



A2 SUB UNIT (TX VCO/PLL)		C312	C314	C317	C318	C320	C321	C324	C350	C353	C354	C355	C356	C357	C358	C359	C360	C361	C362	C363	C364	C365	C366	C367	C368	C369	C370	C371	C374	C375	C379	C380	C381
2-70	K.E.C	6p	12p	6p	4.7u	4.7u	4p	0.22u	470p	NO	470p	NO	9p	NO	NO	3p	0.1u	NO	18p	NO	470p	NO	5p	NO	8p	NO	8p	NO	0.5p	NO	4p	0.75p	NO
2-71	K3.C3	7p	12p	7p	4.7u	4.7u	4p	0.33u	NO	470p	NO	NO	470p	3p	NO	NO	0.1u	NO	22p	NO	470p	NO	6p	NO	8p	NO	8p	NO	0.5p	4p	NO	0.5p	NO
3-01	C6	8p	18p	8p	6.8u	6.8u	4p	0.33u	NO	470p	NO	15p	NO	470p	3p	NO	NO	0.1u	NO	22p	NO	470p	NO	8p	NO	9p	NO	0.5p	5p	NO	0.5p	NO	

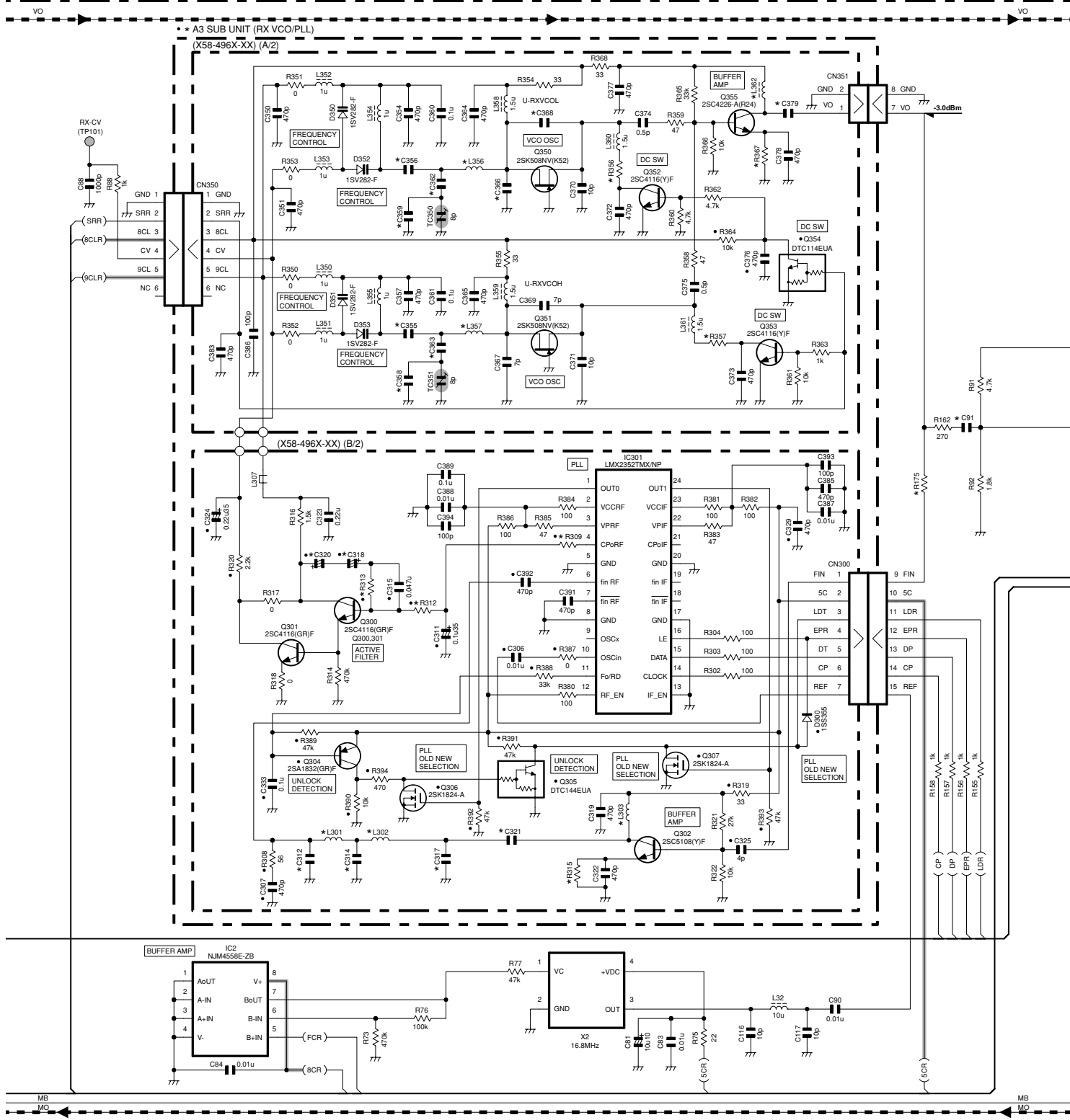
A2 SUB UNIT (TX VCO/PLL)		D350	D351	D352	D353	D354	D355	L301	L302	L303	L350	L351	L352	L353	L354	L355	L356	L357	L358	L359	L360	L361	L362	Q350	Q351	
2-70	K.E.C	1SV282-F	NO	1SV282-F	NO	1SV214-F	NO	15n	15n	22n	NO	NO	1u	1u	1u	NO	L34-4645-05	NO	NO	1u	NO	1u	NO	33n	2SK508NV(K52)	NO
2-71	K3.C3	NO	1SV282-F	NO	1SV282-F	NO	1SV214-F	18n	18n	27n	1u	1u	NO	NO	NO	NO	NO	L34-4607-05	NO	1.5u	NO	1.5u	33n	NO	2SK508NV(K52)	NO
3-01	C6	NO	1SV282-F	NO	1SV282-F	NO	1SV214-F	18n	18n	33n	1u	1u	NO	NO	NO	NO	NO	L34-4608-05	NO	1.5u	NO	1.5u	33n	NO	2SK508NV(K52)	NO

A2 SUB UNIT (TX VCO/PLL)		R310	R313	R350	R351	R352	R353	R354	R355	R358	R359	R367	R372	R373	R374	R375	R376	R377	TC350	TC351
2-70	K.E.C	1k	NO	0	NO	0	33	NO	NO	47	180	180k	100k	NO	NO	270	NO	NO	C05-0396-05	NO
2-71	K3.C3	1.2k	0	NO	0	NO	33	47	NO	100	NO	NO	120k	100k	NO	180	NO	NO	C05-0396-05	NO
3-01	C6	680	0	NO	0	NO	33	47	NO	82	NO	NO	100k	100k	NO	180	NO	NO	C05-0396-05	NO

TX-RX UNIT		X57-696X-XX	A2	C28	C29	C223	C224	C235	L42	L45	R20	R174	R179
2-70	E	X58-4972-70	2P	2P	100P	NO	NO	NO	6.8n	NO	220k	0	0
0-11	K.C	X58-4972-70	2P	2P	100P	NO	NO	NO	6.8n	NO	220k	0	0
0-13	K3.C3	X58-4972-71	8P	11P	NO	3p	100p	18n	18n	220k	0	NO	NO
3-01	C6	X58-4973-01	8P	12P	NO	5p	NO	22n	22n	180k	150	NO	NO

SCHEMATIC DIAGRAM / 原理图 TKR-850

TX-RX UNIT (X57-696X-XX) (A/2)



A3 SUB UNIT (RX VCO/PLL)

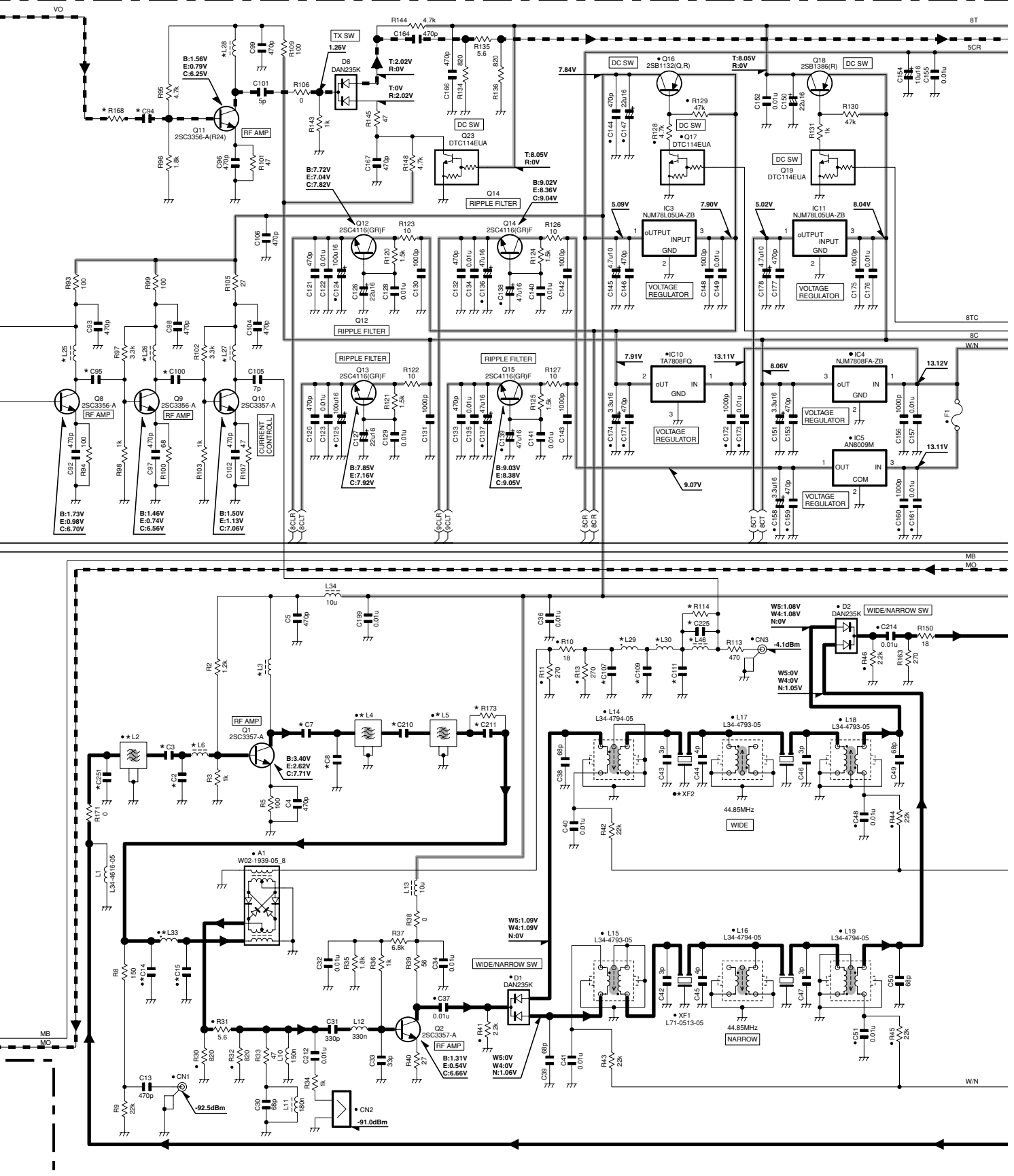
X58-496X-XX	C312	C314	C317	C318	C320	C321	C355	C356	C358	C359	C362	C363	C366	C368	C379	L301	L302	L303	L356	L357	L362	R309	R312	R313	R315	R356	R357	R367	
2-70	K,E,C	7p	12p	7p	4.7u	4.7u	4p	5p	6p	2.5p	3p	12p	10p	7p	7p	18n	18n	22n	L34-4608-05	L34-4608-05	33n	330	330	1k	150	220	180	100	
2-71	K3,C3	8p	18p	8p	4.7u	4.7u	4p	6p	7p	1.5p	2.5p	12p	15p	7p	7p	18n	18n	27n	L34-4609-05	L34-4609-05	33n	330	330	1k	150	220	180	100	
3-01	C6	10p	22p	10p	6.8u	6.8u	6p	12p	12p	5p	5p	27p	27p	8p	8p	5p	22n	22n	33n	L34-4609-05	L34-4609-05	39n	220	220	680	270	270	270	270

TX-RX UNIT

X57-696X-XX	A3	C91	R175	
2-70	E	X58-4962-70	4P	0
0-11	K,C	X58-4962-70	4P	0
0-13	K3,C3	X58-4962-71	5P	390
3-01	C6	X58-4963-01	4P	330

TKR-850 SCHEMATIC DIAGRAM / 原理图

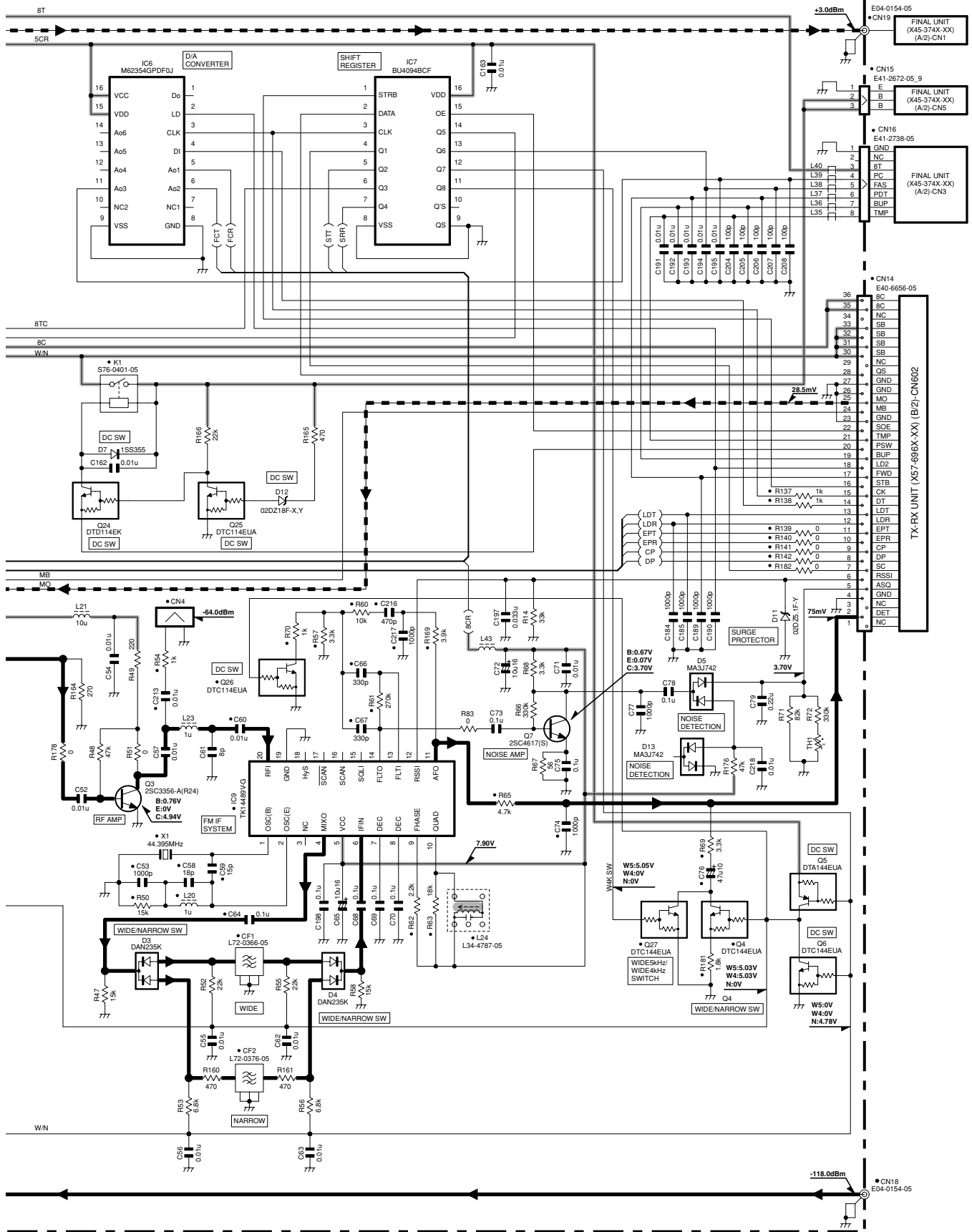
TX-RX UNIT (X57-696X-XX) (A/2)



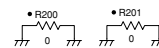
TX-RX UNIT		C2	C3	C7	C8	C14	C15	C94	C95	C100	C107	C109	C111	C210	C211	C225	C251	L2	L3	L4	L5	L6	L25	L26	L27	L28	L29	L30	L33	L46	R114	R168	R173	XF2
X57-696X-XX	K	NO	12P	12P	0.5P	6P	6P	3P	4P	5P	6P	12P	6P	8P	12P	NO	NO	L79-1849-05	18n	L79-1849-05	L79-1849-05	18n	27n	15n	22n	18n	18n	15n	NO	0	0	NO	L71-0627-05	
0-11	K,C	NO	12P	12P	0.5P	6P	6P	3P	4P	5P	6P	12P	6P	8P	12P	NO	NO	L79-1849-05	18n	L79-1849-05	L79-1849-05	18n	27n	15n	22n	18n	18n	15n	NO	0	0	NO	L71-0512-05	
0-13	K3,C3	1P	10P	8P	1P	7P	7P	4P	4P	6P	6P	12P	6P	10P	NO	NO	3P	L79-1853-05	15n	L79-1853-05	L79-1853-05	22n	27n	22n	22n	22n	22n	22n	NO	0	270	0	NO	L71-0512-05
3-01	C6	2P	9P	12P	3P	7P	7P	5P	6P	7P	8P	18P	8P	12P	NO	2P	3P	L79-1851-05	22n	L79-1851-05	L79-1851-05	22n	33n	33n	27n	27n	22n	18n	15n	NO	180	0	NO	L71-0512-05

SCHEMATIC DIAGRAM / 原理图 TKR-850

TX-RX UNIT (X57-696X-XX) (A/2)

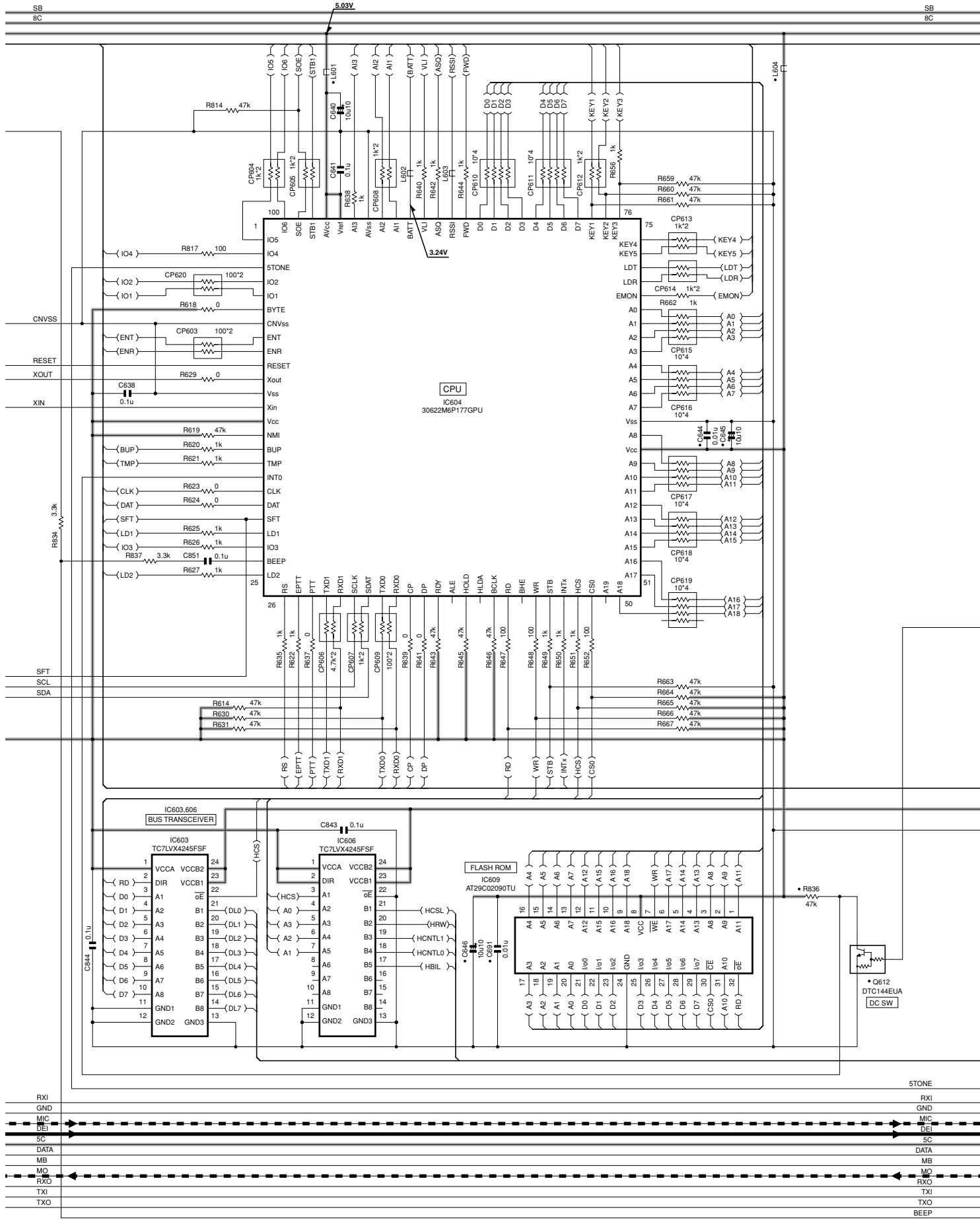


Note : The components marked with a dot (•) are parts of layer 1.



SCHEMATIC DIAGRAM / 原理图 TKR-850

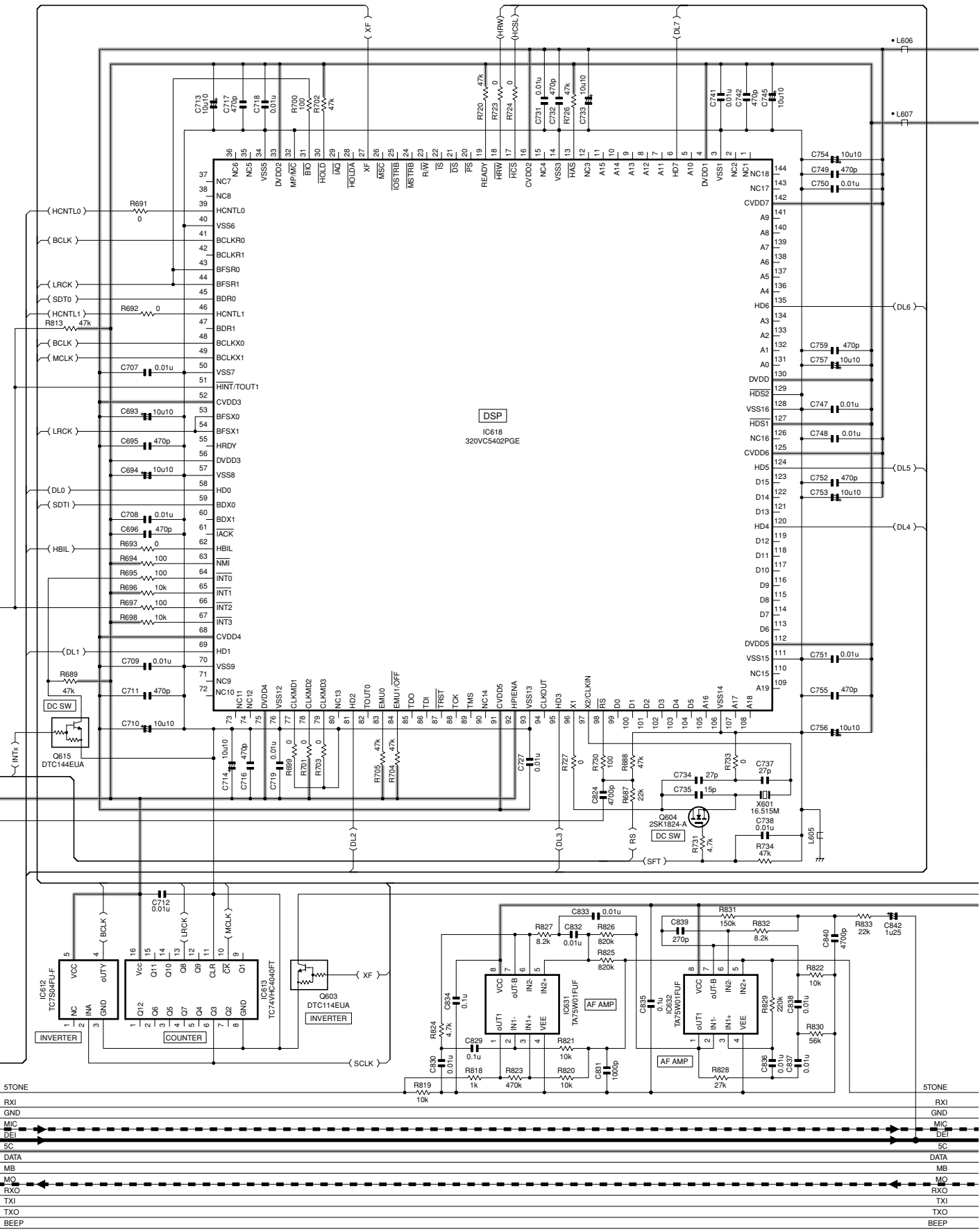
TX-RX UNIT (X57-696X-XX) (B/2)



TKR-850 SCHEMATIC DIAGRAM / 原理图

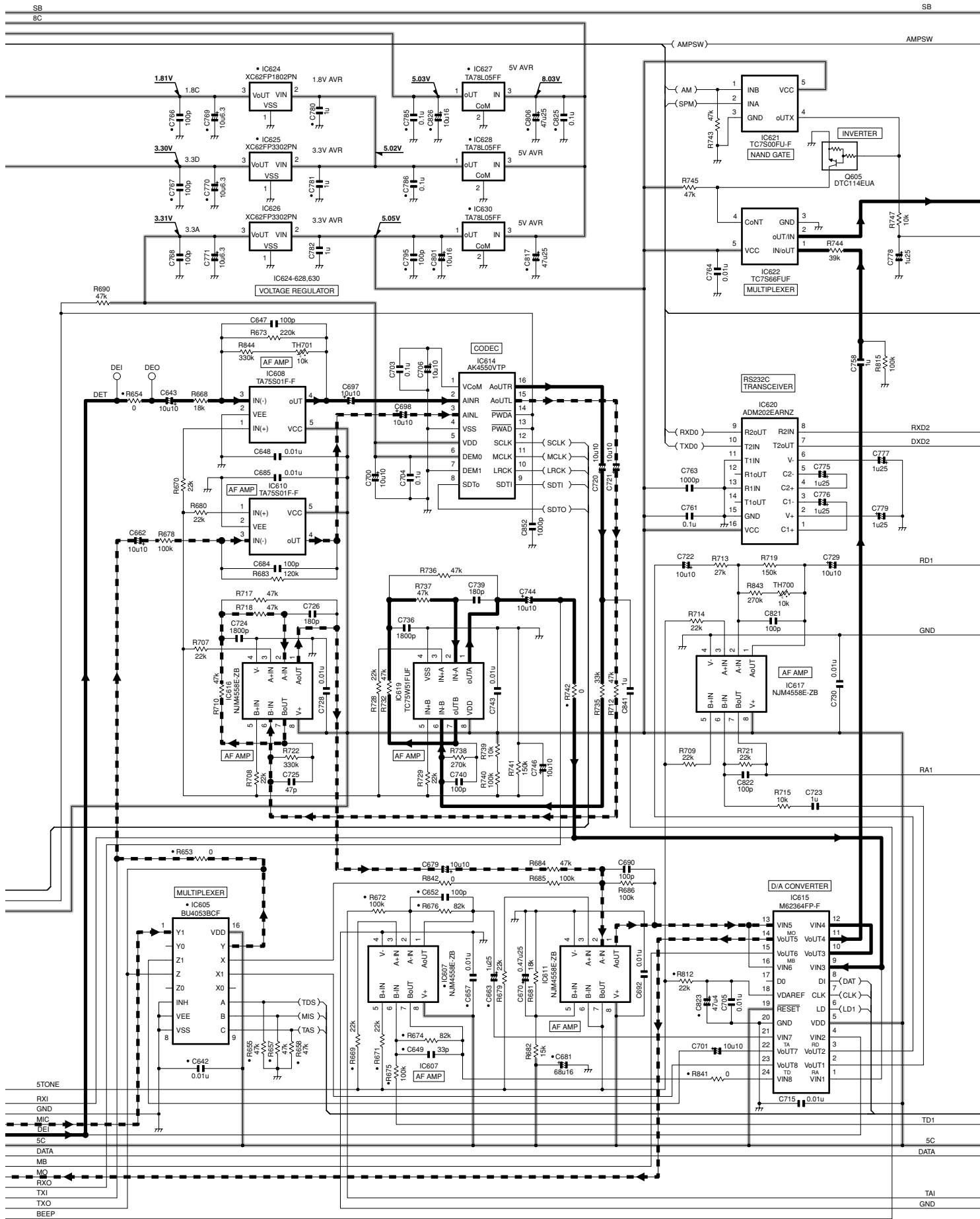
TX-RX UNIT (X57-696X-XX) (B/2)

SB BC SB BC



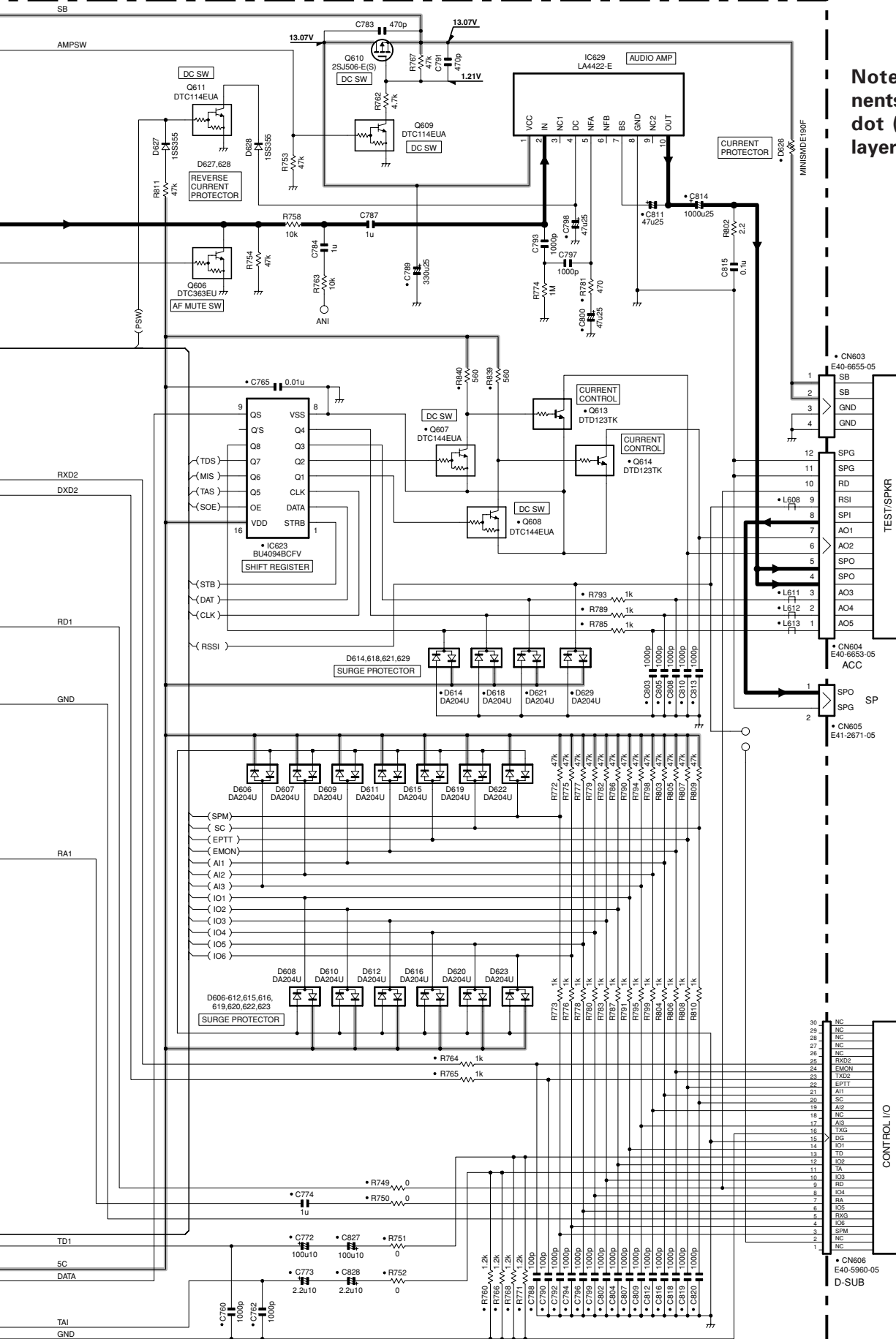
SCHEMATIC DIAGRAM / 原理图 TKR-850

TX-RX UNIT (X57-696X-XX) (B/2)



TKR-850 SCHEMATIC DIAGRAM / 原理图

TX-RX UNIT (X57-696X-XX) (B/2)



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

TKR-850

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Kenwood Ibérica, S.A.

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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

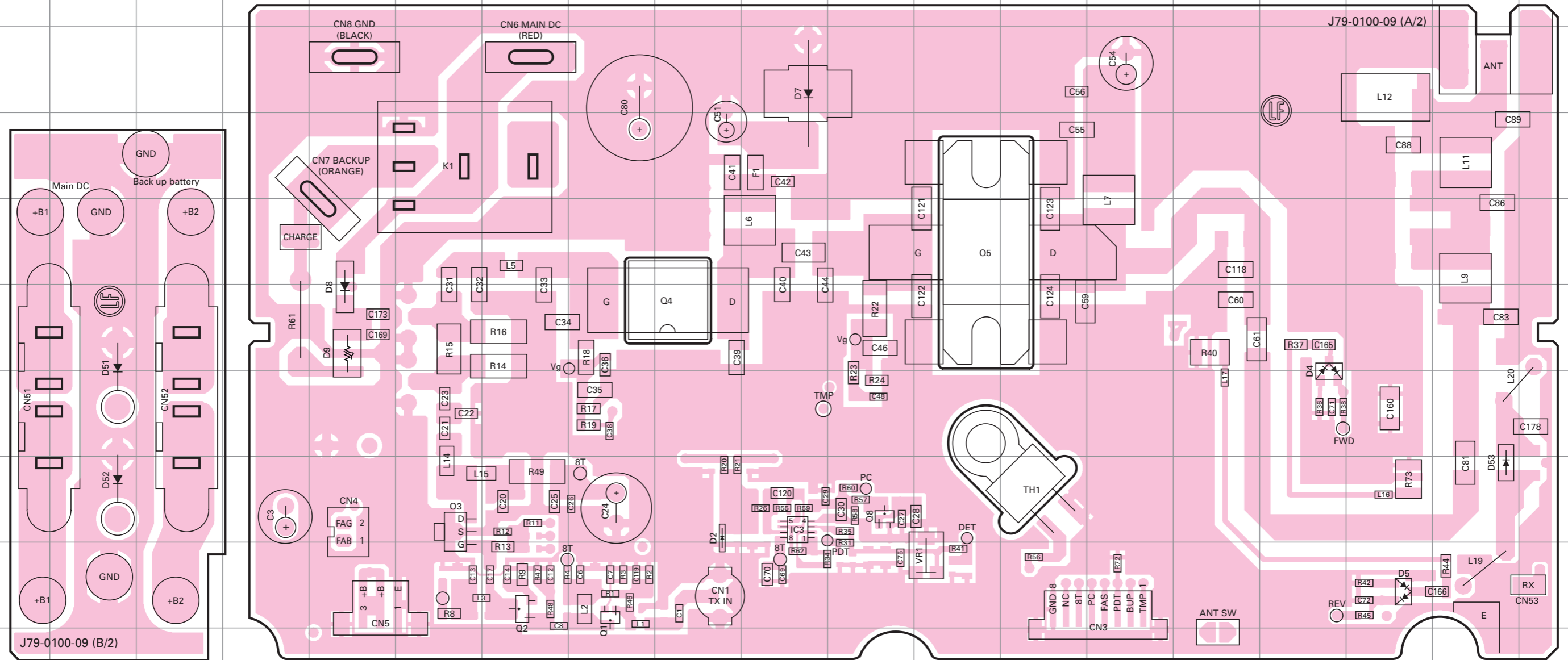


TKR-850 PC BOARD / PC板

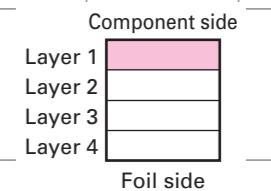
PC BOARD / PC板 TKR-850

FINAL UNIT (X45-374X-XX) 0-10 : K,E,C 0-12 : K3,C3 3-01 : C6
Component side view (J79-0100-09)

FINAL UNIT (X45-374X-XX) 0-10 : K,E,C 0-12 : K3,C3 3-01 : C6
Component side view (J79-0100-00)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC3	8J	Q4	6I	D4	7P	D9	6E
Q1	9H	Q5	5L	D5	9Q	D51	7B
Q2	9G	Q8	8K	D7	3J	D52	8B
Q3	8F	D2	8I	D8	6E	D53	8R

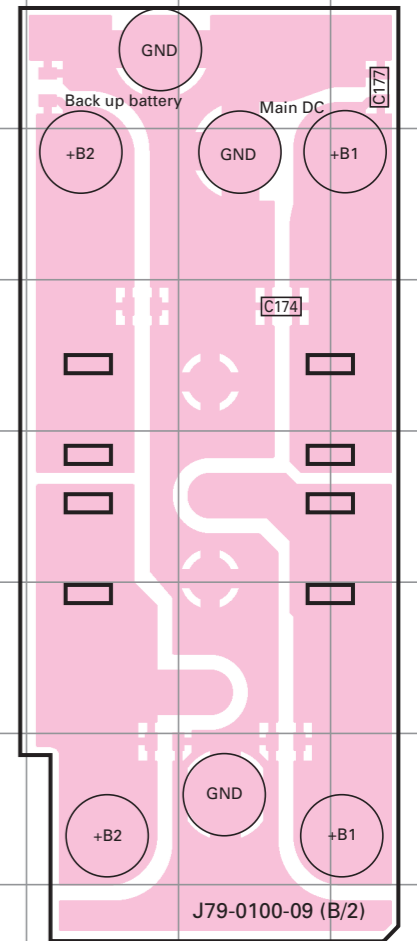
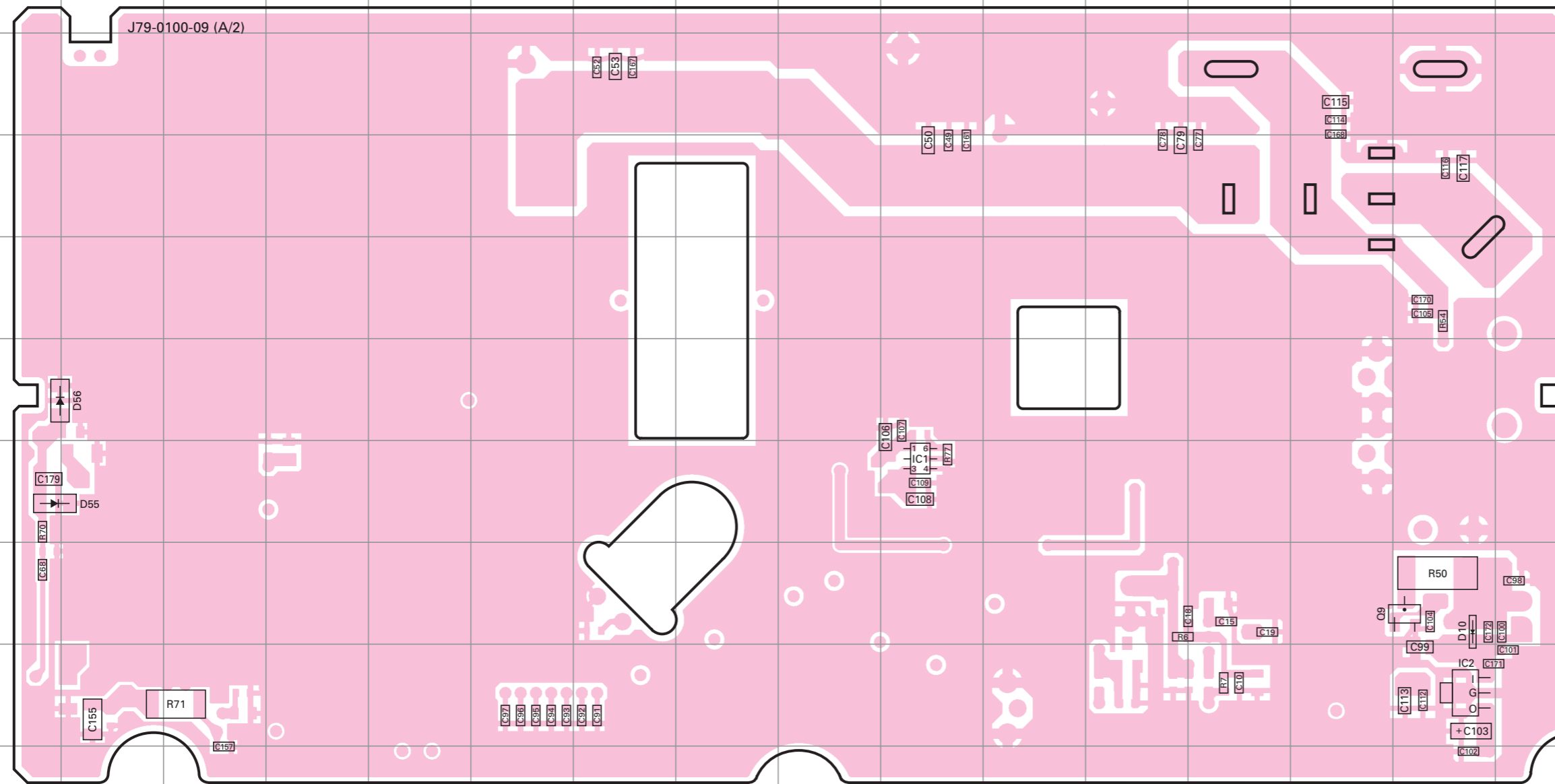


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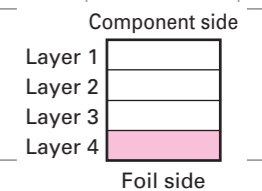
PC BOARD / PC板 TKR-850

FINAL UNIT (X45-374X-XX) 0-10 : K,E,C 0-12 : K3,C3 3-01 : C6
 Foil side view (J79-0100-09)

FINAL UNIT (X45-374X-XX) 0-10 : K,E,C 0-12 : K3,C3 3-01 : C6
 Foil side view (J79-0100-00)



Ref. No.	Address	Ref. No.	Address
IC1	7J	D10	8O
IC2	9O	D55	6A
Q9	8O	D56	7A

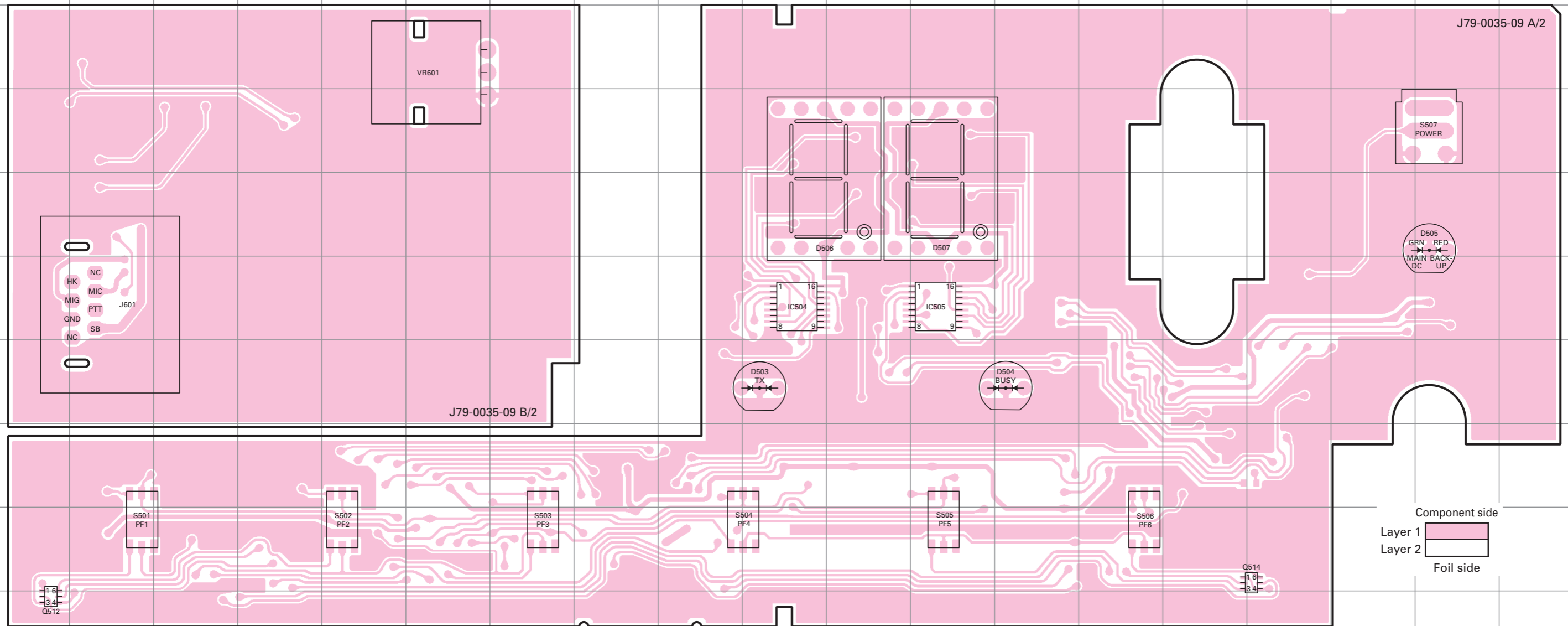


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DISPLAY UNIT (X54-3580-20) Component side view (J79-0035-09)

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

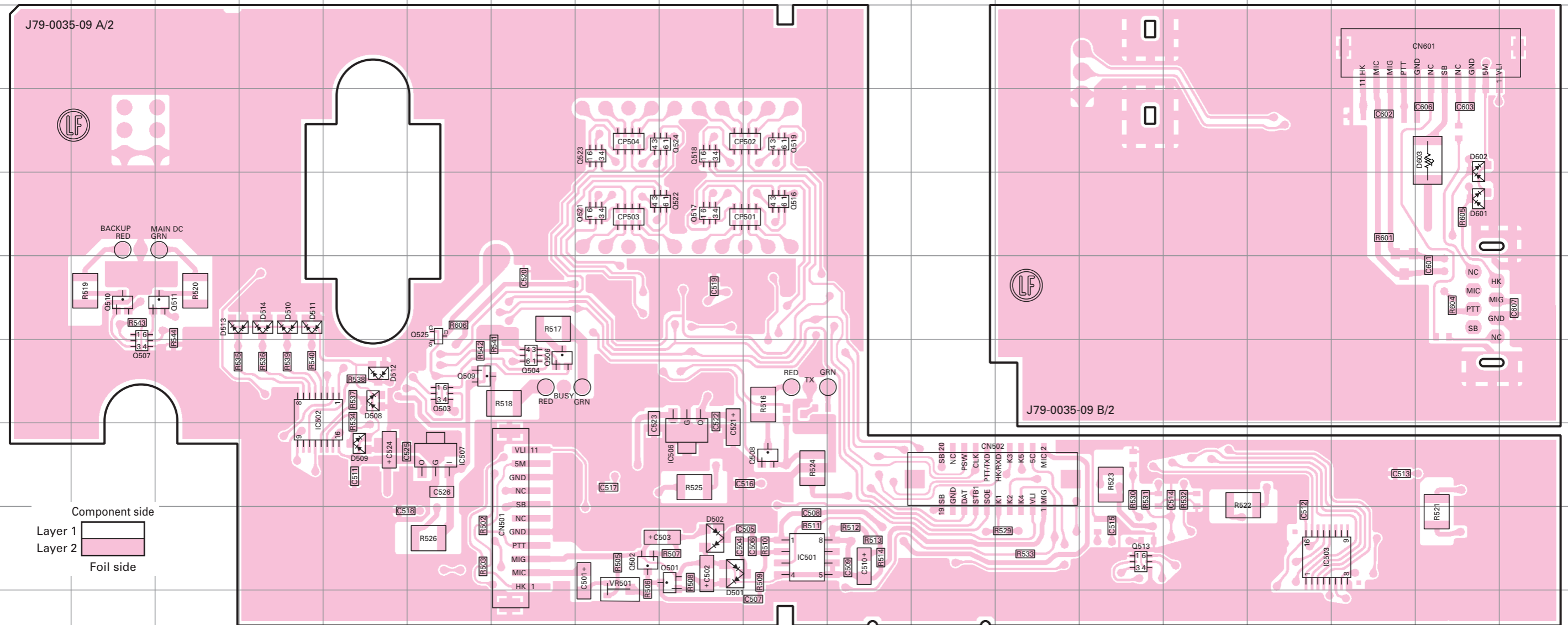


Component side
 Layer 1
 Layer 2
 Foil side

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

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

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



Component side
 Layer 1
 Layer 2
 Foil side

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-850 PC BOARD / PC板

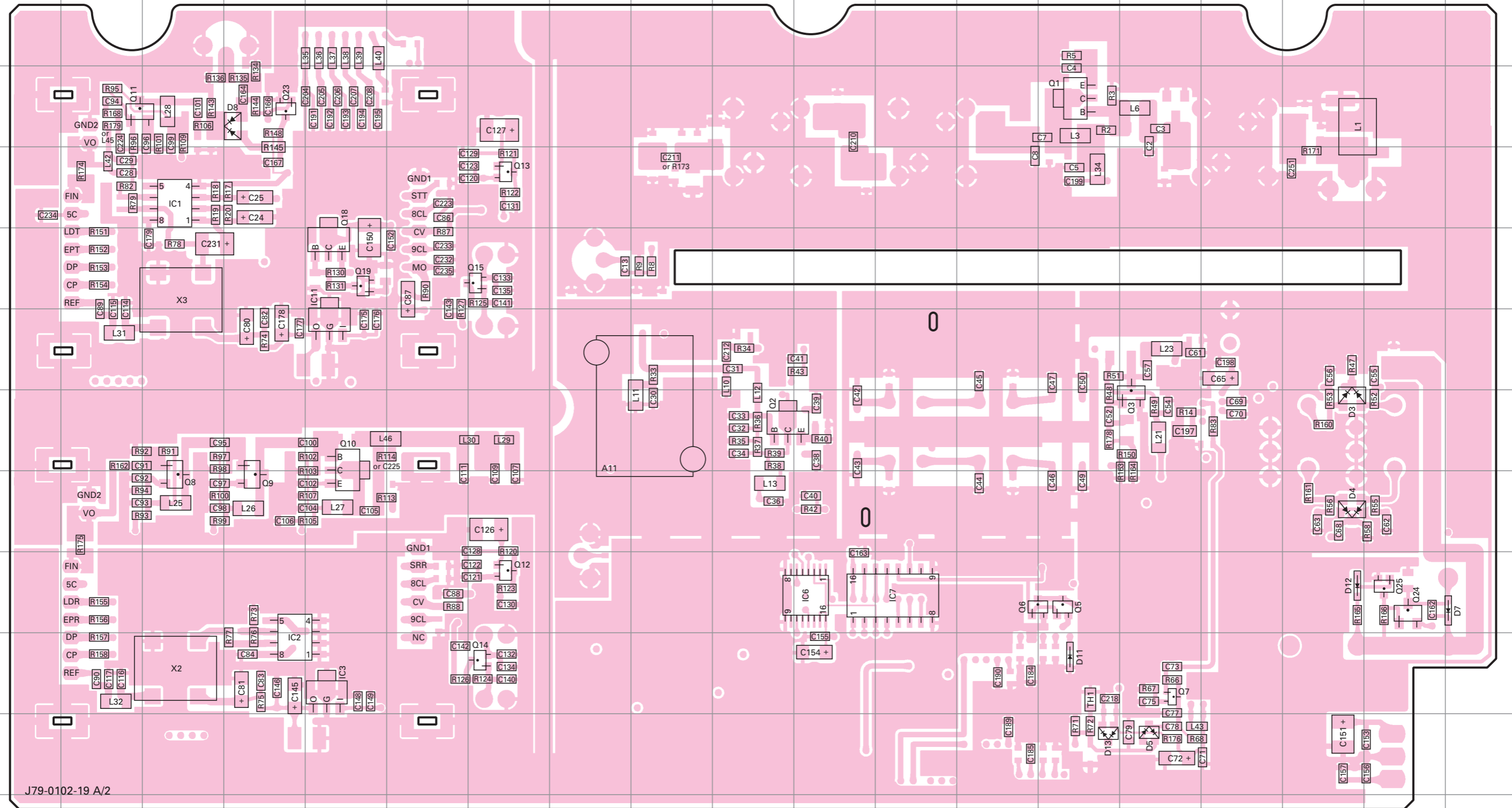
TX-RX UNIT (X57-696X-XX) (A/2) 0-11 : K,C 0-13 : K3,C3 2-70 : E 3-01 : C6

Foil side view (J79-0102-19 A/2)

PC BOARD / PC板 TKR-850

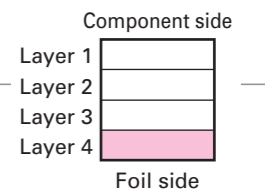
TX-RX UNIT (X57-696X-XX) (A/2) 0-11 : K,C 0-13 : K3,C3 2-70 : E 3-01 : C6

Foil side view (J79-0102-19 A/2)



J79-0102-19 A/2

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

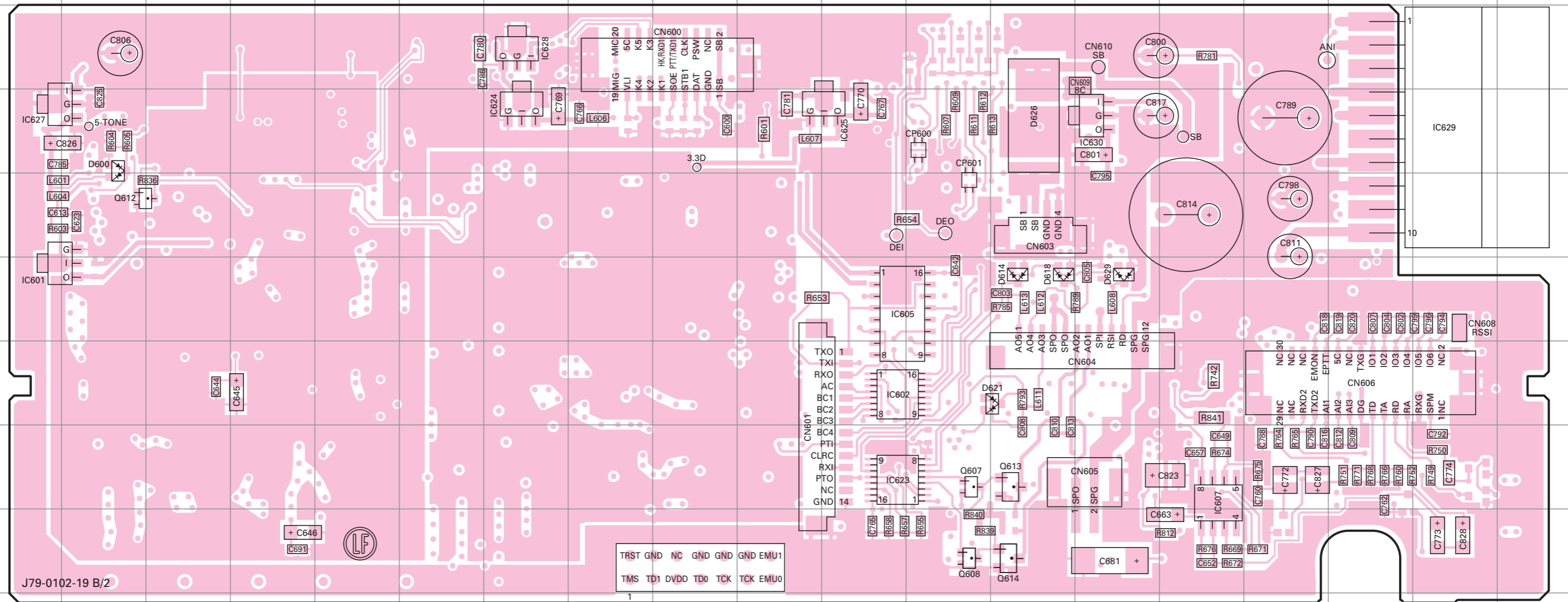


TKR-850 PC BOARD / PC板

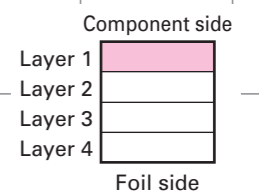
PC BOARD / PC板 TKR-850

TX-RX UNIT (X57-696X-XX) (B/2) 0-11 : K,C 0-13 : K3,C3 2-70 : E 3-01 : C6
Component side view (J79-0102-19 B/2)

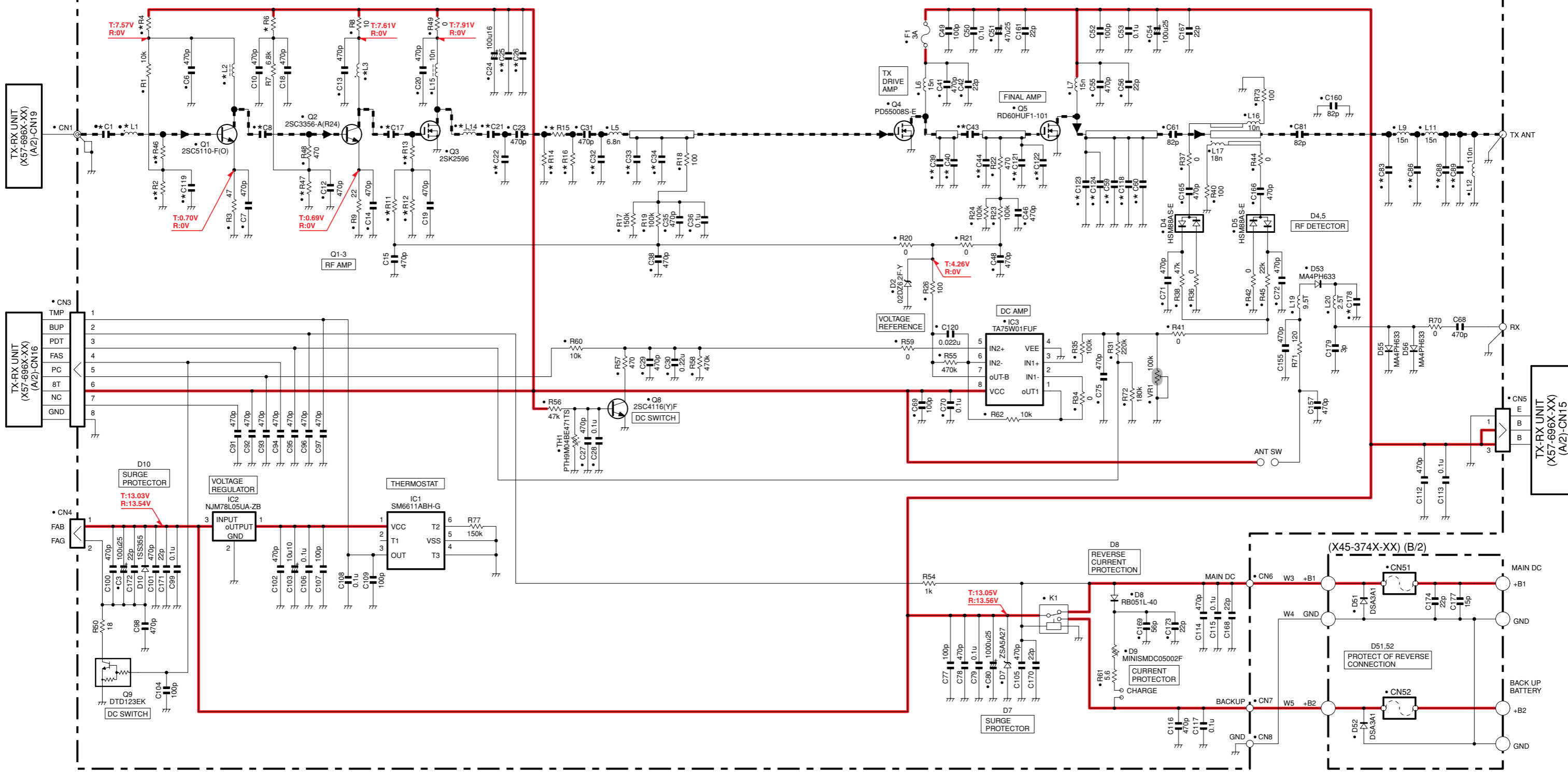
TX-RX UNIT (X57-696X-XX) (B/2) 0-11 : K,C 0-13 : K3,C3 2-70 : E 3-01 : C6
Component side view (J79-0102-19 B/2)



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		



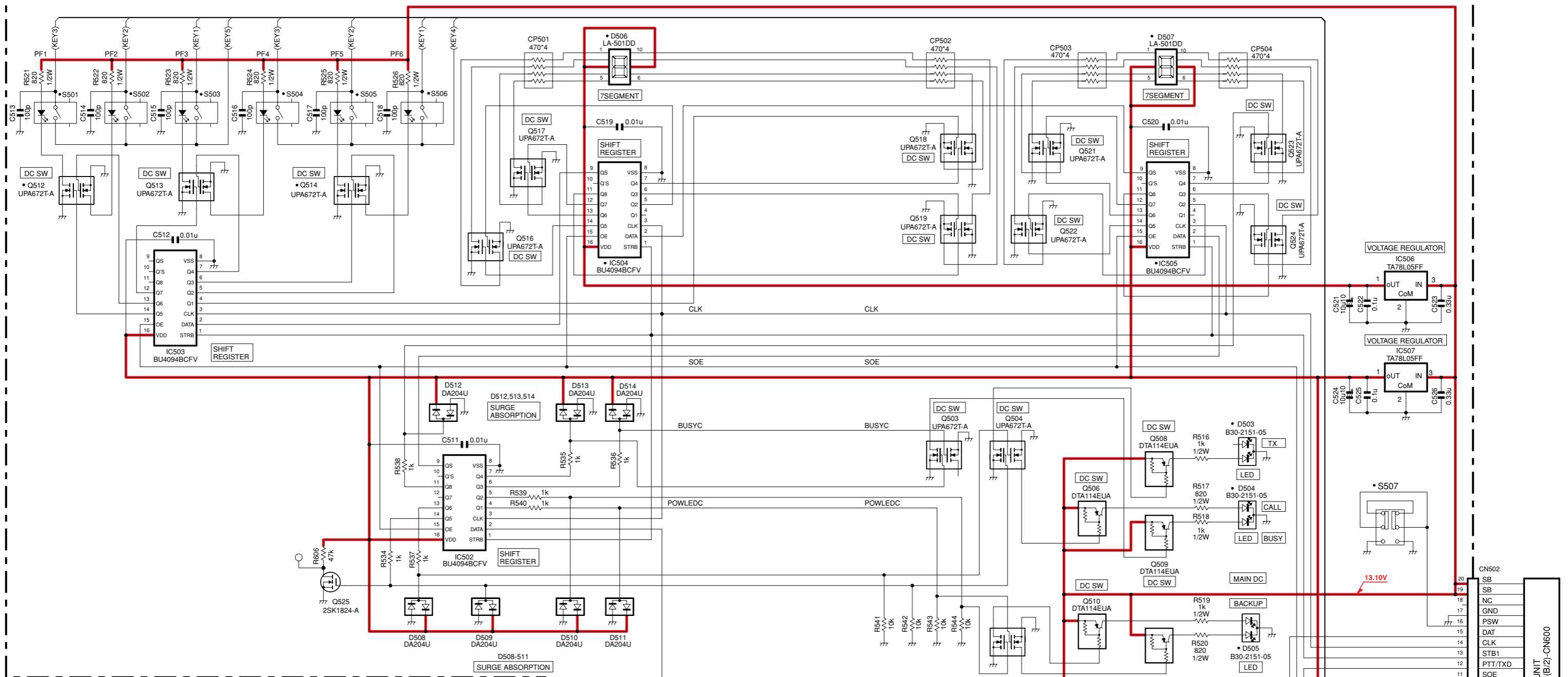
FINAL UNIT (X45-374X-XX) (A/2)



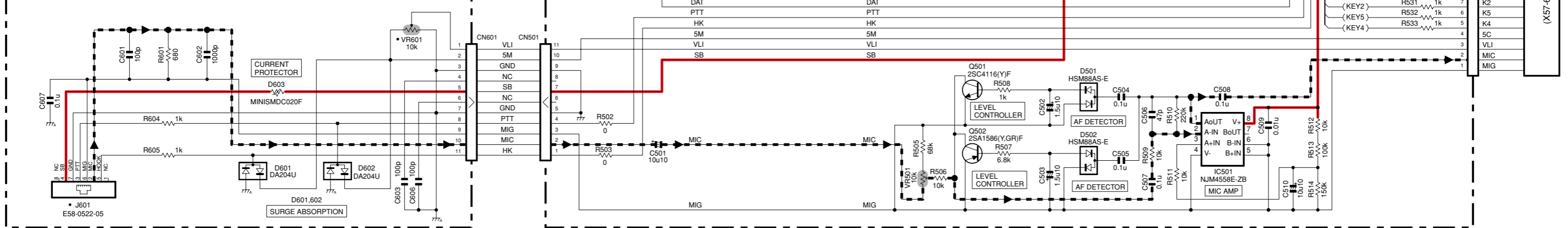
X45-374X-XX	L1	L2	L3	L14	R2	R4	R6	R11	R12	R13	R14	R15	R16	R46	R47	C1	C8	C17	C21	C22	C25	C26	C28	C32	C33	C34	C119
0-10	K,E,C	10n	10n	18n	15n	2.2k	22	47	100k	18k	47	1k	5.6	1k	470	2.2k	470p	8p	5p	12p	8p	NO	470p	8p	27p	27p	470p
0-12	K3,C3	3.9n	27n	8.2n	10n	4.7k	10	10	33k	15k	22	270	18	270	0	3.3k	10p	10p	56p	22p	12p	NO	100p	8p	39p	39p	NO
3-01	C6	3.9n	27n	8.2n	10n	4.7k	10	10	33k	15k	22	180	33	180	0	3.3k	10p	10p	56p	22p	12p	0.1u	100p	10p	47p	47p	NO

X45-374X-XX	C39	C40	C43	C44	C59	C60	C83	C86	C88	C89	C118	C121	C122	C123	C124	C178
0-10	K,E,C	12p	22p	22p	6p	10p	NO	6p	10p	NO	5p	4p	15p	15p	22p	3p
0-12	K3,C3	18p	NO	22p	10p	12p	8p	7p	12p	6p	NO	NO	18p	18p	27p	3p
3-01	C6	22p	NO	39p	10p	27p	10p	10p	18p	NO	10p	NO	22p	22p	27p	5p

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



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



- | | | |
|---|---------------------|---------------|
| 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 |

