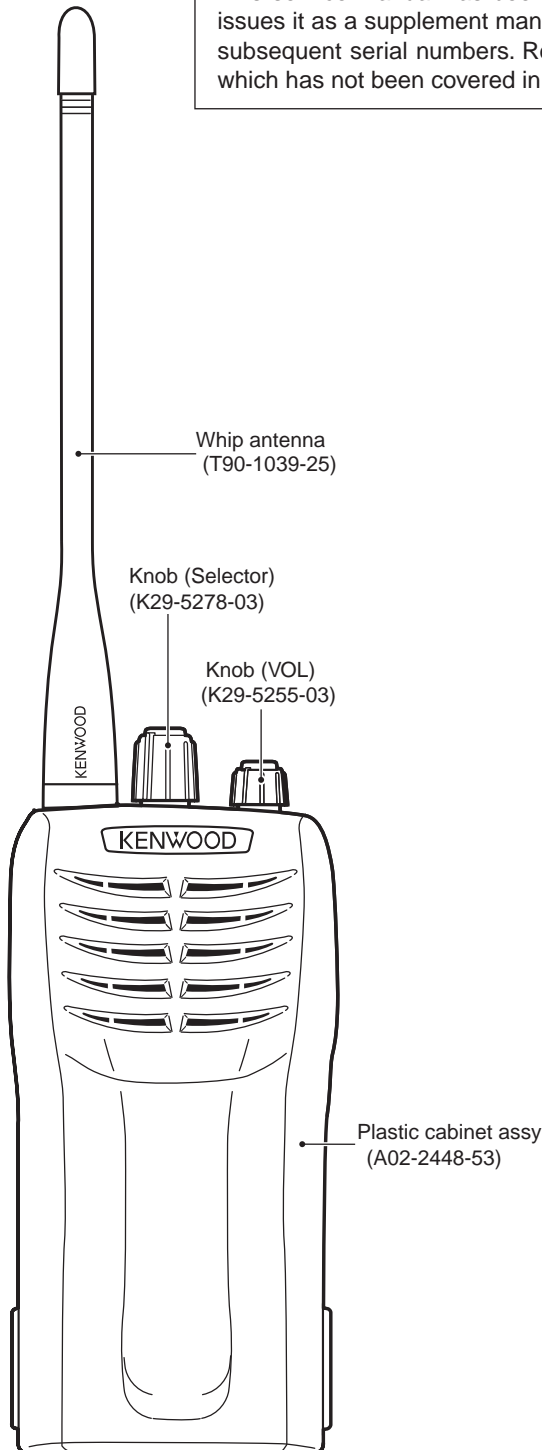


TK-3107

SERVICE MANUAL

SUPPLEMENT M version

This service manual has been revised due to the modification of the Drive / Final FET and issues it as a supplement manual. This service manual applies to products with B2400001 or subsequent serial numbers. Refer to the TK-3107 series service manual for any information which has not been covered in this manual.



Whip antenna
(T90-1039-25)

Knob (Selector)
(K29-5278-03)

Knob (VOL)
(K29-5255-03)

Plastic cabinet assy
(A02-2448-53)

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TK-3107

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Disclaimer

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GENERAL

SERVICE MANUAL LIST

Title	Part number	Remarks	Destination	Unit number	PCB number
TK-3107	B51-8489-00	First edition	M	X57-6030-10	J72-0687-12
TK-3107	B51-8489-10	Revised edition	M, M4	X57-6030-XX	J72-0687-12
TK-3107	B51-8572-00	First edition	M2	X57-6030-11	J72-0687-12
TK-3107	B51-8641-00	Supplement edition	M6	X57-6030-XX	J72-0687-12
TK-3107	B53-7023-00	Supplement edition This service manual (PDF ONLY)	M	X57-6030-10	J79-0367-09

PARTS LIST

* 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)

C : China

K : USA

T : England

X : Australia

P : Canada

E : Europe

M : Other Areas

TX-RX UNIT (X57-6030-10)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
TX-RX UNIT (X57-6030-10)											
D400			B30-2156-05	LED(RED)		C106,107			CK73GB1H471K	CHIP C 470PF	K
D401			B30-2157-05	LED(YELLOW)		C108			CC73GCH1H070D	CHIP C 7.0PF	D
C1			CK73GB1C104K	CHIP C 0.10UF	K	C109,110			CK73GB1H471K	CHIP C 470PF	K
C2 ,3			CC73GCH1H101J	CHIP C 100PF	J	C111			CC73GCH1H060D	CHIP C 6.0PF	D
C4			CK73GB1C104K	CHIP C 0.10UF	K	C113			CK73GB1C104K	CHIP C 0.10UF	K
C5			CS77BA0J4R7M	CHIP TNTL 4.7UF	6.3WV	C114			CK73GB1H471K	CHIP C 470PF	K
C6			CC73GCH1H101J	CHIP C 100PF	J	C116			CK73GB1H102K	CHIP C 1000PF	K
C7			CK73GB1H471K	CHIP C 470PF	K	C118			CC73GCH1H270J	CHIP C 27PF	J
C9			CC73GCH1H130J	CHIP C 13PF	J	C119			CK73GB1H102K	CHIP C 1000PF	K
C10			CC73GCH1H470J	CHIP C 47PF	J	C120,121			CK73GB1H471K	CHIP C 470PF	K
C12			CS77MA1V0R1M	CHIP TNTL 0.1UF	35WV	C123			CK73GB1H102K	CHIP C 1000PF	K
C14			CC73GCH1H130J	CHIP C 13PF	J	C125			CK73GB1H471K	CHIP C 470PF	K
C15		*	CS77MA1D010M	CHIP TNTL 1.0UF	20WV	C126			CK73FB1C105K	CHIP C 1.0UF	K
C16			CC73GCH1H680J	CHIP C 68PF	J	C127		*	CS77MA1A6R8M	CHIP TNTL 6.8UF	10WV
C17			CC73GCH1H331J	CHIP C 330PF	J	C128			CK73GB1H103K	CHIP C 0.010UF	K
C18			CS77MA1V0R1M	CHIP TNTL 0.1UF	35WV	C129			CK73GB1H471K	CHIP C 470PF	K
C19 ,20			CK73GB1H103K	CHIP C 0.010UF	K	C130			CC73FCH1H220G	CHIP C 22PF	G
C23			CS77BA0J100M	CHIP TNTL 10UF	6.3WV	C131			CK73GB1C104K	CHIP C 0.10UF	K
C24			CK73GB1H103K	CHIP C 0.010UF	K	C132			CK73GB1H471K	CHIP C 470PF	K
C25			CK73GB1H471K	CHIP C 470PF	K	C134			CC73GCH1H101J	CHIP C 100PF	J
C26			CC73GCH1H121J	CHIP C 120PF	J	C135			CC73GCH1H010C	CHIP C 1.0PF	C
C27			CK73GB1H471K	CHIP C 470PF	K	C136			CC73GCH1H060B	CHIP C 6.0PF	B
C28			CC73GCH1H330J	CHIP C 33PF	J	C138			CC73GCH1H101J	CHIP C 100PF	J
C29			CC73GCH1H020C	CHIP C 2.0PF	C	C139			CK73GB1H471K	CHIP C 470PF	K
C30			CK73GB1H102K	CHIP C 1000PF	K	C140			CC73GCH1H060B	CHIP C 6.0PF	B
C31			CC73GCH1H101J	CHIP C 100PF	J	C141			CK73GB1H471K	CHIP C 470PF	K
C34			CC73GCH1H180J	CHIP C 18PF	J	C142			CC73GCH1H030B	CHIP C 3.0PF	B
C35			CC73GCH1H070B	CHIP C 7.0PF	B	C143			CK73GB1H471K	CHIP C 470PF	K
C36			CC73GCH1H080B	CHIP C 8.0PF	B	C144			CC73GCH1H020B	CHIP C 2.0PF	B
C37			CC73GCH1H330J	CHIP C 33PF	J	C145			CK73GB1H471K	CHIP C 470PF	K
C38			CC73GCH1H050C	CHIP C 5.0PF	C	C147			CC73GCH1H020B	CHIP C 2.0PF	B
C39			CC73GCH1H080D	CHIP C 8.0PF	D	C149			CC73GCH1H030B	CHIP C 3.0PF	B
C40			CC73GCH1H0R5B	CHIP C 0.5PF	B	C150			CC73GCH1H060B	CHIP C 6.0PF	B
C41			CC73GCH1H040B	CHIP C 4.0PF	B	C151			CC73GCH1H010B	CHIP C 1.0PF	B
C42			CC73GCH1H100D	CHIP C 10PF	D	C153			CC73GCH1H070B	CHIP C 7.0PF	B
C43			CK73GB1H102K	CHIP C 1000PF	K	C154			CC73GCH1H1R5B	CHIP C 1.5PF	B
C44			CC73GCH1H060B	CHIP C 6.0PF	B	C155			CC73GCH1H020B	CHIP C 2.0PF	B
C45			CC73GCH1H100C	CHIP C 10PF	C	C156			CK73GB1C104K	CHIP C 0.10UF	K
C46			CK73GB1H471K	CHIP C 470PF	K	C157			CK73GB1H471K	CHIP C 470PF	K
C47			CC73GCH1H010B	CHIP C 1.0PF	B	C165			CK73GB1H471K	CHIP C 470PF	K
C48			CK73GB1H471K	CHIP C 470PF	K	C200			CS77BA0J100M	CHIP TNTL 10UF	6.3WV
C49			CC73GCH1H0R5B	CHIP C 0.5PF	B	C201			CK73GB1H103K	CHIP C 0.010UF	K
C51			CC73GCH1H680J	CHIP C 68PF	J	C202			CC73GCH1H270J	CHIP C 27PF	J
C52			CK73GB1H471K	CHIP C 470PF	K	C203			CK73GB1H471K	CHIP C 470PF	K
C53			CC73GCH1H060D	CHIP C 6.0PF	D	C204			CK73GB1H472K	CHIP C 4700PF	K
C54			CC73GCH1H030B	CHIP C 3.0PF	B	C205,206			CC73GCH1H331J	CHIP C 330PF	J
C55			CK73GB1H471K	CHIP C 470PF	K	C207			CK73GB1C104K	CHIP C 0.10UF	K
C56			CS77BA0J4R7M	CHIP TNTL 4.7UF	6.3WV	C208			CC73GCH1H270J	CHIP C 27PF	J
C100			CC73GCH1H220J	CHIP C 22PF	J	C209			CK73GB1C104K	CHIP C 0.10UF	K
C101-103			CK73GB1H471K	CHIP C 470PF	K	C210			CK73GB1H103K	CHIP C 0.010UF	K
C104			CK73GB1C104K	CHIP C 0.10UF	K	C211			CK73GB1C104K	CHIP C 0.10UF	K
C105			CC73GCH1H060D	CHIP C 6.0PF	D	C212			CC73GCH1H330J	CHIP C 33PF	J
						C213			CK73GB1C104K	CHIP C 0.10UF	K
						C214			CK73GB1H103K	CHIP C 0.010UF	K
						C215			CC73GCH1H130J	CHIP C 13PF	J

PARTS LIST

TX-RX UNIT (X57-6030-10)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C217			CK73HB1E103K	CHIP C 0.010UF K		C400			CK73GB1C104K	CHIP C 0.10UF K	
C218			CK73GB1H471K	CHIP C 470PF K		C402-404			CK73GB1H471K	CHIP C 470PF K	
C219			CC73GCH1H150J	CHIP C 15PF J		C406			CK73GB1H471K	CHIP C 470PF K	
C220			CK73HB1E103K	CHIP C 0.010UF K		C407			CK73GB1H102K	CHIP C 1000PF K	
C222			CC73HCH1H010B	CHIP C 1.0PF B		C408			CS77BA0J100M	CHIP TNL 10UF 6.3WV	
C223			CC73GCH1H020C	CHIP C 2.0PF C		C409			CC73GCH1H030B	CHIP C 3.0PF B	
C224			CK73GB1H471K	CHIP C 470PF K		C410,411			CK73GB1H471K	CHIP C 470PF K	
C226			CC73GCH1H0R3B	CHIP C 0.3PF B		C412			CC73GCH1H100D	CHIP C 10PF D	
C227			CC73GCH1H100C	CHIP C 10PF C		C413			CK73GB1H102K	CHIP C 1000PF K	
C228			CC73GCH1H270J	CHIP C 27PF J		C414			CK73GB1H471K	CHIP C 470PF K	
C229			CK73GB1H471K	CHIP C 470PF K		C415			CC73GCH1H100D	CHIP C 10PF D	
C231,232			CK73GB1H471K	CHIP C 470PF K		C416			CK73GB1H471K	CHIP C 470PF K	
C233,234			CC73GCH1H0R3B	CHIP C 0.3PF B		C417			CK73GB1E105K	CHIP C 1.0UF K	
C235			CC73GCH1H3R5B	CHIP C 3.5PF B		C418			CK73GB1H103K	CHIP C 0.010UF K	
C236			CC73GCH1H0R3B	CHIP C 0.3PF B		C420,421			CK73GB1H103K	CHIP C 0.010UF K	
C237			CK73GB1H471K	CHIP C 470PF K		C422			CK73HB1E103K	CHIP C 0.010UF K	
C238			CC73GCH1H0R3B	CHIP C 0.3PF B		C423			CK73GB1C333K	CHIP C 0.033UF K	
C239			CC73GCH1H040B	CHIP C 4.0PF B		C424			CK73GB1E105K	CHIP C 1.0UF K	
C241			CC73GCH1H060B	CHIP C 6.0PF B		C425			CK73HB1E103K	CHIP C 0.010UF K	
C252			CC73GCH1H4R5B	CHIP C 4.5PF B		C427			CK73GB1H471K	CHIP C 470PF K	
C253,254			CK73GB1H471K	CHIP C 470PF K		C429,430			CK73GB1E105K	CHIP C 1.0UF K	
C255			CC73GCH1H4R5B	CHIP C 4.5PF B		C500			CK73HB1C273K	CHIP C 0.027UF K	
C256			CK73GB1C104K	CHIP C 0.10UF K		C501			CK73GB1C273K	CHIP C 0.027UF K	
C257			CK73GB1H471K	CHIP C 470PF K		C502			CK73GB1H392K	CHIP C 3900PF K	
C258			CK73GB1C104K	CHIP C 0.10UF K		C503			CK73GB1C333K	CHIP C 0.033UF K	
C259			CC73GCH1H030B	CHIP C 3.0PF B		C504			CS77BA0J4R7M	CHIP TNL 4.7UF 6.3WV	
C260			CC73GCH1H2R5B	CHIP C 2.5PF B		C505			CK73FB1C105K	CHIP C 1.0UF K	
C261			CK73HB1A104K	CHIP C 0.10UF K		C506			CK73GB1H471K	CHIP C 470PF K	
C262			CK73GB1C104K	CHIP C 0.10UF K		C507	*		CS77MPOG2R2M	CHIP TNL 6.8UF 10WV	
C263,264			CC73HCH1H220J	CHIP C 22PF J		C508			CK73GB1H103K	CHIP C 0.010UF K	
C265			CK73HB1H471K	CHIP C 470PF K		C509			CK73GB1H332K	CHIP C 3300PF K	
C267			CC73HCH1H470J	CHIP C 47PF J		C510			CC73GCH1H681J	CHIP C 680PF J	
C300			CK73GB1H822K	CHIP C 8200PF K		C511			CK73GB1C473K	CHIP C 0.047UF K	
C301			CK73GB1H183K	CHIP C 0.018UF K		C512			CK73GB1H332K	CHIP C 3300PF K	
C302,303			CK73GB1C104K	CHIP C 0.10UF K		C513			CC73GCH1H681J	CHIP C 680PF J	
C304			CS77BA0J100M	CHIP TNL 10UF 6.3WV		C514			CK73GB1C473K	CHIP C 0.047UF K	
C305			CK73GB1H103J	CHIP C 0.010UF J		C515			CK73GB1H103K	CHIP C 0.010UF K	
C306			CK73GB1C473K	CHIP C 0.047UF K		C516			CC73GCH1H100D	CHIP C 10PF D	
C307			CS77BA0J100M	CHIP TNL 10UF 6.3WV		C517			CK73GB1H471K	CHIP C 470PF K	
C308			CK73GB1H562K	CHIP C 5600PF K		C518			CK73GB1E223J	CHIP C 0.022UF J	
C309			CK73GB1H103J	CHIP C 0.010UF J		C519			CS77BA0J4R7M	CHIP TNL 4.7UF 6.3WV	
C311			CS77BA0J100M	CHIP TNL 10UF 6.3WV		C520			CK73GB1E223J	CHIP C 0.022UF J	
C312			CK73GB1H103J	CHIP C 0.010UF J		C521			CK73GB1H102K	CHIP C 1000PF K	
C313			CK73GB1E105K	CHIP C 1.0UF K		C522			CK73GB1C104K	CHIP C 0.10UF K	
C314			CK73GB1H102K	CHIP C 1000PF K		C523	*		CS77MPOG2R2M	CHIP TNL 6.8UF 10WV	
C316			CK73GB1H103J	CHIP C 0.010UF J		C524			CK73GB1C273K	CHIP C 0.027UF K	
C318			CK73GB1C333J	CHIP C 0.033UF J		C525			CK73GB1C104K	CHIP C 0.10UF K	
C319			CK73GB1C473J	CHIP C 0.047UF J		C526			CK73GB1H471K	CHIP C 470PF K	
C320,321			CK73GB1C333J	CHIP C 0.033UF J		C527			CS77BA0J100M	CHIP TNL 10UF 6.3WV	
C322			CK73GB1H104K	CHIP C 0.10UF K		C528,529			CK73GB1H471K	CHIP C 470PF K	
C327			CK73GB1C104K	CHIP C 0.10UF K		C530			CC73HCH1H221J	CHIP C 220PF J	
C330			CC73GCH1H101J	CHIP C 100PF J		C531			CC73GCH1H221J	CHIP C 220PF J	
C331			CK73FB1E474K	CHIP C 0.47UF K		C532			CK73GB1H471K	CHIP C 470PF K	
C332			CS77BA0J100M	CHIP TNL 10UF 6.3WV		TC1			C05-0383-05	CERAMIC TRIMMER CAPACITOR(6PF)	
C333			CK73GB1A474K	CHIP C 0.47UF K		TC2			C05-0384-05	CERAMIC TRIMMER CAPACITOR(10PF)	
C334			CC73GCH1H221J	CHIP C 220PF J		TC201			C05-0383-05	CERAMIC TRIMMER CAPACITOR(6PF)	
C335			CK73GB1C473K	CHIP C 0.047UF K		TC202,203			C05-0369-05	CERAMIC TRIMMER CAPACITOR(6PF)	
C336			CK73GB1H103K	CHIP C 0.010UF K		101	2B		E23-1182-04	RELAY TERMINAL(BATT+)	
C337			CS77MC0J101M	CHIP TNL 100UF 6.3WV							
C338			CC73GCH1H560J	CHIP C 56PF J							

PARTS LIST

TX-RX UNIT (X57-6030-10)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
CN400			E40-5998-25	PIN ASSY(10P)		X400			L77-1761-15	CRYSTAL RESONATOR(7.3728MHZ)	
J500			E11-0703-05	PHONE JACK(2.5/3.5)		XF201			L71-0522-05	MCF(38.85MHZ)	
F500			F53-0372-05	FUSE(3.15A)		106	2B		N78-2640-48	PAN HEAD TAPTITE SCREW	
102	2B		G13-1867-14	CUSHION(TERMINAL BATT+)		CP1			RK74GB1J102J	CHIP-COM 1.0K J 1/16W	
103	2B		G53-0862-14	PACKING(TERMINAL BATT+)		R1 ,2			RK73GB2A102J	CHIP R 1.0K J 1/10W	
104	2B		J19-1571-04	HOLDER(TERMINAL BATT+)		R3			RK73GB2A100J	CHIP R 10 J 1/10W	
105	2B		J30-1249-04	SPACER(TERMINAL BATT+)		R4			RK73GB2A102J	CHIP R 1.0K J 1/10W	
CF200			L72-0958-05	CERAMIC FILTER(450KHZ)		R5			RK73GB2A561J	CHIP R 560 J 1/10W	
L1			L92-0140-05	CHIP FERRITE		R6			RK73GB2A154J	CHIP R 150K J 1/10W	
L2			L41-8295-39	SMALL FIXED INDUCTOR(8.2UH)		R7			RK73GB2A561J	CHIP R 560 J 1/10W	
L4			L40-4781-86	SMALL FIXED INDUCTOR(0.47UH)		R8			RK73GB2A334J	CHIP R 330K J 1/10W	
L5			L40-5681-86	SMALL FIXED INDUCTOR(0.56UH)		R9			RK73GB2A272J	CHIP R 2.7K J 1/10W	
L6			L41-1875-53	SMALL FIXED INDUCTOR(18NH)		R10			RK73GB2A222J	CHIP R 2.2K J 1/10W	
L7			L92-0140-05	CHIP FERRITE		R11			RK73GB2A473J	CHIP R 47K J 1/10W	
L8			L40-1085-92	SMALL FIXED INDUCTOR(100NH)		R12			RK73GB2A274J	CHIP R 270K J 1/10W	
L9			L40-3391-86	SMALL FIXED INDUCTOR(3.3UH)		R13			RK73GB2A000J	CHIP R 0 J 1/10W	
L10			L92-0140-05	CHIP FERRITE		R14			RK73GB2A101J	CHIP R 100 J 1/10W	
L11			L40-3391-86	SMALL FIXED INDUCTOR(3.3UH)		R15			RK73GB2A103J	CHIP R 10K J 1/10W	
L12			L40-1085-92	SMALL FIXED INDUCTOR(100NH)		R16			RK73GB2A473J	CHIP R 47K J 1/10W	
L13 ,14			L33-0744-05	SMALL FIXED INDUCTOR(23NH)		R18			RK73GB2A104J	CHIP R 100K J 1/10W	
L15			L40-1085-92	SMALL FIXED INDUCTOR(100NH)		R19			RK73GB2A101J	CHIP R 100 J 1/10W	
L16 ,17			L40-2285-38	SMALL FIXED INDUCTOR(220NH)		R20			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L18		*	L41-4775-53	SMALL FIXED INDUCTOR(47NH)		R21			RK73GB2A104J	CHIP R 100K J 1/10W	
L19			L92-0140-05	CHIP FERRITE		R22			RK73GB2A473J	CHIP R 47K J 1/10W	
L20			L40-3391-86	SMALL FIXED INDUCTOR(3.3UH)		R23		*	RN73GE1J682D	METAL FILM R 6.8K D 1/16W	
L21			L41-2275-53	SMALL FIXED INDUCTOR(22NH)		R24		*	RN73GE1J822D	METAL FILM R 8.2K D 1/16W	
L100			L41-2275-53	SMALL FIXED INDUCTOR(22NH)		R25 ,26			RK73GB2A101J	CHIP R 100 J 1/10W	
L101			L41-1875-53	SMALL FIXED INDUCTOR(18NH)		R27			RN73GE1J331D	METAL FILM R 330 D 1/16W	
L102			L41-1575-53	SMALL FIXED INDUCTOR(15NH)		R28			RK73GB2A220J	CHIP R 22 J 1/10W	
L103			L92-0140-05	CHIP FERRITE		R29			RK73GB2A000J	CHIP R 0 J 1/10W	
L104			L41-1098-40	SMALL FIXED INDUCTOR(1000NH)		R30			RK73GB2A124J	CHIP R 120K J 1/10W	
L105			L92-0149-05	CHIP FERRITE		R31			RK73GB2A101J	CHIP R 100 J 1/10W	
L106			L34-4568-05	AIR-CORE COIL(8T)		R32			RK73GB2A472J	CHIP R 4.7K J 1/10W	
L107			L92-0149-05	CHIP FERRITE		R33			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L109			L41-2285-43	SMALL FIXED INDUCTOR(220NH)		R34			RK73GB2A104J	CHIP R 100K J 1/10W	
L110			L34-4564-05	AIR-CORE COIL(4T)		R100			RK73GB2A332J	CHIP R 3.3K J 1/10W	
L112			L34-4563-05	AIR-CORE COIL(3T)		R101			RK73GB2A562J	CHIP R 5.6K J 1/10W	
L113			L34-4565-05	AIR-CORE COIL(5T)		R102			RK73GB2A271J	CHIP R 270 J 1/10W	
L114			L34-4564-05	AIR-CORE COIL(4T)		R103			RK73GB2A332J	CHIP R 3.3K J 1/10W	
L118			L41-1092-44	SMALL FIXED INDUCTOR(1UH)		R104			RK73GB2A100J	CHIP R 10 J 1/10W	
L119		*	L41-2263-53	SMALL FIXED INDUCTOR(2.2NH)		R105,106			RK73GB2A332J	CHIP R 3.3K J 1/10W	
L200			L41-1095-39	SMALL FIXED INDUCTOR(1.0UH)		R107			RK73GB2A473J	CHIP R 47K J 1/10W	
L202			L41-1575-53	SMALL FIXED INDUCTOR(15NH)		R108			RK73GB2A331J	CHIP R 330 J 1/10W	
L203,204			L34-4546-05	AIR-CORE COIL(3.5T)		R109			RK73GB2A220J	CHIP R 22 J 1/10W	
L206			L41-1575-53	SMALL FIXED INDUCTOR(15NH)		R110			RK73GB2A681J	CHIP R 680 J 1/10W	
L207			L41-2775-53	SMALL FIXED INDUCTOR(27NH)		R111			RK73GB2A220J	CHIP R 22 J 1/10W	
L208			L41-1278-14	SMALL FIXED INDUCTOR(12NH)		R112			RK73GB2A152J	CHIP R 1.5K J 1/10W	
L209,210			L34-4546-05	AIR-CORE COIL(3.5T)		R113			RK73GB2A331J	CHIP R 330 J 1/10W	
L211			L41-1278-14	SMALL FIXED INDUCTOR(12NH)		R115			RK73GB2A100J	CHIP R 10 J 1/10W	
L212			L34-4850-15	COIL		R117			RK73GB2A124J	CHIP R 120K J 1/10W	
L214			L34-4546-05	AIR-CORE COIL(3.5T)		R118			RK73GB2A473J	CHIP R 47K J 1/10W	
L400			L40-2281-86	SMALL FIXED INDUCTOR(0.22U)		R120			RK73GB2A000J	CHIP R 0 J 1/10W	
L401			L92-0140-05	CHIP FERRITE		R121			RK73GB2A470J	CHIP R 47 J 1/10W	
L402,403			L40-2281-86	SMALL FIXED INDUCTOR(0.22U)		R123			RK73FB2B000J	CHIP R 0 J 1/8W	
L500			L92-0140-05	CHIP FERRITE		R125,126			RK73GB2A473J	CHIP R 47K J 1/10W	
L501,502			L92-0149-05	CHIP FERRITE		R127			RK73FB2B000J	CHIP R 0 J 1/8W	
X1		*	L77-1877-25	VCXO(12.8MHZ)		R128			RK73GB2A470J	CHIP R 47 J 1/10W	
						R130-132			RK73EB2ER39K	CHIP R 0.39 K 1/4W	

PARTS LIST

TX-RX UNIT (X57-6030-10)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R133-138			RK73GH2A154D	CHIP R 150K D 1/10W		R315			RK73GH2A394D	CHIP R 390K D 1/10W	
R139			RK73GB2A271J	CHIP R 270 J 1/10W		R316			RK73GB2A274J	CHIP R 270K J 1/10W	
R140			RK73GB2A103J	CHIP R 10K J 1/10W		R317			RK73GH2A274D	CHIP R 270K D 1/10W	
R141			RK73GB2A473J	CHIP R 47K J 1/10W		R318			RK73GB2A184J	CHIP R 180K J 1/10W	
R142			RK73GB2A105J	CHIP R 1.0M J 1/10W		R320			RK73GB2A473J	CHIP R 47K J 1/10W	
R143			RK73GB2A000J	CHIP R 0 J 1/10W		R321			RK73GB2A223J	CHIP R 22K J 1/10W	
R144			RK73GB2A222J	CHIP R 2.2K J 1/10W		R322			RK73GH2A224D	CHIP R 220K D 1/10W	
R145			RK73GB2A184J	CHIP R 180K J 1/10W		R323			RK73GB2A104J	CHIP R 100K J 1/10W	
R146			RK73GB2A104J	CHIP R 100K J 1/10W		R324			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R147			RK73GB2A000J	CHIP R 0 J 1/10W		R325			RK73GB2A104J	CHIP R 100K J 1/10W	
R152			RK73GB2A471J	CHIP R 470 J 1/10W		R326			RK73GH2A562D	CHIP R 5.6K D 1/10W	
R153			RK73GB2A332J	CHIP R 3.3K J 1/10W		R327			RK73GB2A000J	CHIP R 0 J 1/10W	
R154			RK73GB2A271J	CHIP R 270 J 1/10W		R328			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R155			RK73FB2B000J	CHIP R 0 J 1/8W		R329			RK73GB2A000J	CHIP R 0 J 1/10W	
R200			RK73GB2A100J	CHIP R 10 J 1/10W		R330			RK73HB1J473J	CHIP R 47K J 1/16W	
R201			RK73GB2A102J	CHIP R 1.0K J 1/10W		R331			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R202			RK73GB2A394J	CHIP R 390K J 1/10W		R332			RK73GB2A151J	CHIP R 150 J 1/10W	
R203,204			RK73GB2A332J	CHIP R 3.3K J 1/10W		R333			RK73GB2A474J	CHIP R 470K J 1/10W	
R205			RK73GB2A153J	CHIP R 15K J 1/10W		R334			RK73GB2A100J	CHIP R 10 J 1/10W	
R206			RK73GB2A474J	CHIP R 470K J 1/10W		R335			RK73GB2A563J	CHIP R 56K J 1/10W	
R207			RK73GB2A104J	CHIP R 100K J 1/10W		R336			RK73GB2A333J	CHIP R 33K J 1/10W	
R208			RK73GB2A684J	CHIP R 680K J 1/10W		R338			RK73GB2A473J	CHIP R 47K J 1/10W	
R209			RK73GB2A272J	CHIP R 2.7K J 1/10W		R339			RK73GB2A822J	CHIP R 8.2K J 1/10W	
R210			RK73GB2A471J	CHIP R 470 J 1/10W		R340			RK73GH2A124D	CHIP R 120K D 1/10W	
R212			RK73HB1J470J	CHIP R 47 J 1/16W		R341			RK73GB2A104J	CHIP R 100K J 1/10W	
R213			RK73GB2A000J	CHIP R 0 J 1/10W		R342			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R214			RK73GB2A103J	CHIP R 10K J 1/10W		R400			RK73GB2A334J	CHIP R 330K J 1/10W	
R215			RK73HB1J151J	CHIP R 150 J 1/16W		R401			RK73GB2A104J	CHIP R 100K J 1/10W	
R216			RK73HB1J563J	CHIP R 56K J 1/16W		R402			RK73GB2A221J	CHIP R 220 J 1/10W	
R218			RK73GB2A101J	CHIP R 100 J 1/10W		R403			RK73GB2A181J	CHIP R 180 J 1/10W	
R219			RK73GB2A332J	CHIP R 3.3K J 1/10W		R404			RK73GB2A000J	CHIP R 0 J 1/10W	
R220			RK73GB2A221J	CHIP R 220 J 1/10W		R405			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R221			RK73GB2A104J	CHIP R 100K J 1/10W		R406			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R222			RK73GB2A102J	CHIP R 1.0K J 1/10W		R407			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R225			RK73GB2A100J	CHIP R 10 J 1/10W		R408			RK73GB2A104J	CHIP R 100K J 1/10W	
R226			RK73HB1J561J	CHIP R 560 J 1/16W		R409			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R227			RK73GB2A000J	CHIP R 0 J 1/10W		R410			RK73GB2A822J	CHIP R 8.2K J 1/10W	
R228			RK73GB2A104J	CHIP R 100K J 1/10W		R411			RK73GB2A224J	CHIP R 220K J 1/10W	
R229			RK73HB1J683J	CHIP R 68K J 1/16W		R412			RK73GB2A100J	CHIP R 10 J 1/10W	
R230			RK73HB1J104J	CHIP R 100K J 1/16W		R413			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R231,232			RK73GB2A104J	CHIP R 100K J 1/10W		R414,415			RK73GB2A473J	CHIP R 47K J 1/10W	
R234,235			RK73HB1J104J	CHIP R 100K J 1/16W		R416			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R236			RK73HB1J563J	CHIP R 56K J 1/16W		R417			RK73GB2A100J	CHIP R 10 J 1/10W	
R237			RK73GB2A104J	CHIP R 100K J 1/10W		R418			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R238			RK73HB1J222J	CHIP R 2.2K J 1/16W		R419			RK73GB2A000J	CHIP R 0 J 1/10W	
R239			RK73HB1J271J	CHIP R 270 J 1/16W		R420			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R240			RK73HB1J000J	CHIP R 0 J 1/16W		R421			RK73HB1J473J	CHIP R 47K J 1/16W	
R300			RK73GH2A913D	CHIP R 91K D 1/10W		R422			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R301,302			RK73GB2A562J	CHIP R 5.6K J 1/10W		R423			RK73HB1J473J	CHIP R 47K J 1/16W	
R303			RK73GB2A332J	CHIP R 3.3K J 1/10W		R424,425			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R304			RK73GB2A105J	CHIP R 1.0M J 1/10W		R426			RK73GB2A822J	CHIP R 8.2K J 1/10W	
R305			RK73GB2A183J	CHIP R 18K J 1/10W		R427			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R306			RK73GB2A124J	CHIP R 120K J 1/10W		R428			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R307			RK73GB2A473J	CHIP R 47K J 1/10W		R429			RK73GB2A821J	CHIP R 820 J 1/10W	
R308			RK73GB2A103J	CHIP R 10K J 1/10W		R430			RK73HB1J101J	CHIP R 100 J 1/16W	
R309			RK73GB2A474J	CHIP R 470K J 1/10W		R431			RK73HB1J000J	CHIP R 0 J 1/16W	
R311			RK73FB2B000J	CHIP R 0 J 1/8W		R432			RK73GB2A103J	CHIP R 10K J 1/10W	
R312			RK73GB2A123J	CHIP R 12K J 1/10W		R433,434			RK73GB2A153J	CHIP R 15K J 1/10W	
R313			RK73GB2A104J	CHIP R 100K J 1/10W		R435			RK73GB2A103J	CHIP R 10K J 1/10W	
R314			RK73GH2A474D	CHIP R 470K D 1/10W		R500,501			RK73HB1J472J	CHIP R 4.7K J 1/16W	

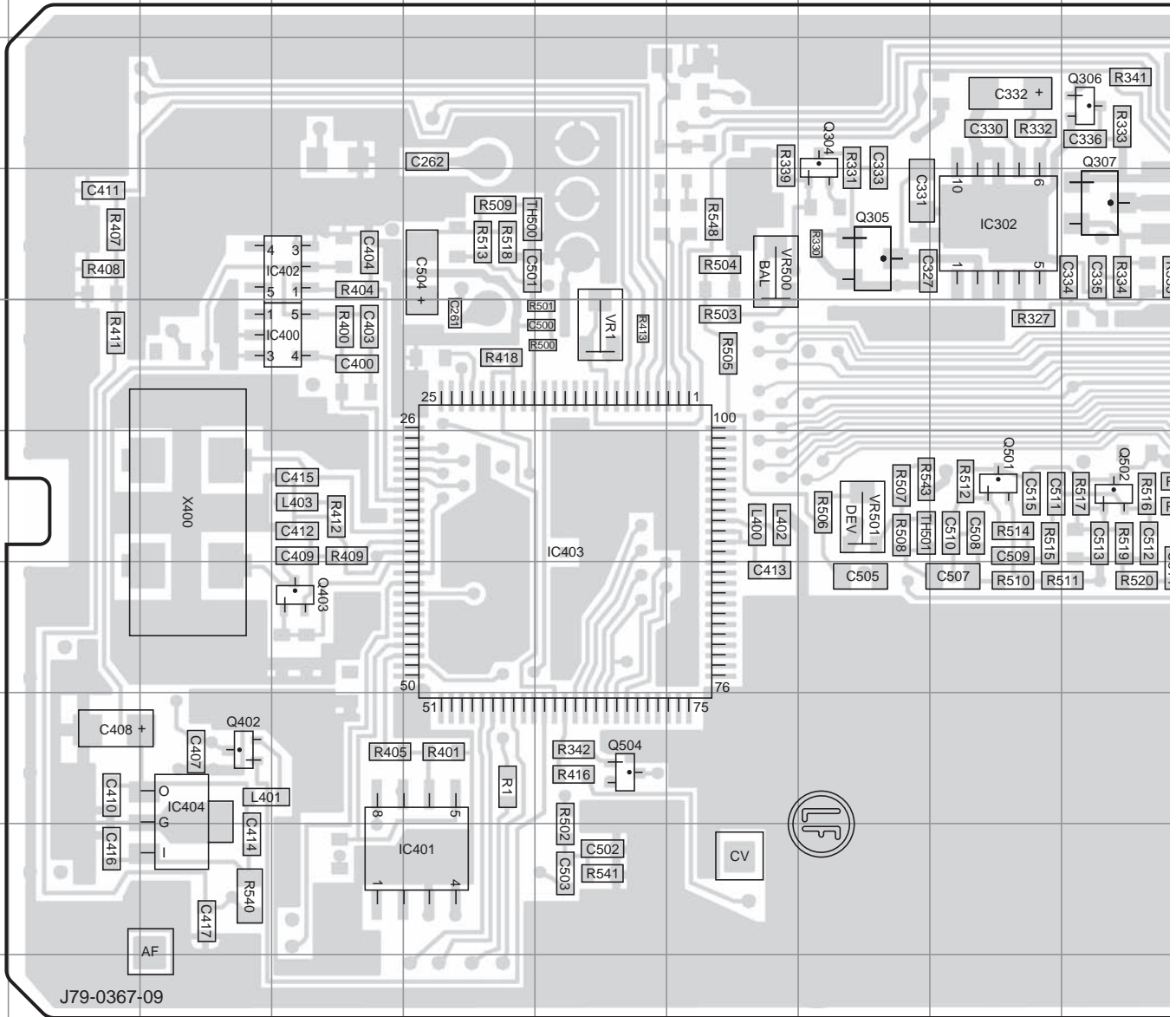
PARTS LIST

TX-RX UNIT (X57-6030-10)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R502			RK73GB2A823J	CHIP R 82K J 1/10W		IC1			MB15A02PFV2E1	MOS-IC	
R503			RK73GB2A683J	CHIP R 68K J 1/10W		IC100			NJM2904V-ZB	MOS-IC	
R504			RK73GB2A333J	CHIP R 33K J 1/10W		IC200			TA31136FNG	MOS-IC	
R505			RK73GB2A154J	CHIP R 150K J 1/10W		IC300			NJM2902V-ZB	MOS-IC	
R506			RK73GB2A223J	CHIP R 22K J 1/10W		IC301			NJM2904V-ZB	MOS-IC	
R507			RK73GB2A473J	CHIP R 47K J 1/10W		IC302			TA7368FG	MOS-IC	
R508			RK73GB2A562J	CHIP R 5.6K J 1/10W		IC400			PST9140NR	MOS-IC	
R509			RK73GB2A124J	CHIP R 120K J 1/10W		IC401			AT24C08BN-SH	ROM IC	
R510			RK73GB2A332J	CHIP R 3.3K J 1/10W		IC402	*		R3111N451C-FE	MOS-IC	
R511			RK73GB2A103J	CHIP R 10K J 1/10W		IC403			38268MCA060GU	MICROPROCESSOR IC	
R512			RK73GB2A185J	CHIP R 1.8M J 1/10W		IC404			XC6201P502P-G	MOS-IC	
R513-515			RK73GB2A333J	CHIP R 33K J 1/10W		IC500			NJM2100V-ZB	MOS-IC	
R516			RK73GB2A103J	CHIP R 10K J 1/10W		Q1			2SC4649(N,P)	TRANSISTOR	
R517			RK73GB2A185J	CHIP R 1.8M J 1/10W		Q2			2SC5108(Y)F	TRANSISTOR	
R518			RK73GB2A682J	CHIP R 6.8K J 1/10W		Q3			2SK508NV(K52)	FET	
R519,520			RK73GB2A333J	CHIP R 33K J 1/10W		Q4			2SC4228(R44)	TRANSISTOR	
R521			RK73GB2A332J	CHIP R 3.3K J 1/10W		Q5			2SJ243-A	FET	
R522			RK73GB2A182J	CHIP R 1.8K J 1/10W		Q6			2SC5108(Y)F	TRANSISTOR	
R523			RK73GB2A682J	CHIP R 6.8K J 1/10W		Q7			KRX102U	TRANSISTOR	
R524			RK73GB2A513J	CHIP R 51K J 1/10W		Q8			2SC4617(S)	TRANSISTOR	
R525			RK73GB2A152J	CHIP R 1.5K J 1/10W		Q100,101			2SC5108(Y)F	TRANSISTOR	
R526,527			RK73GH2A153D	CHIP R 15K D 1/10W		Q102			2SC4988-E	TRANSISTOR	
R528			RK73GB2A754J	CHIP R 750K J 1/10W		Q105			RFM01U7P	FET	
R529			RK73GB2A183J	CHIP R 18K J 1/10W		Q106			2SK1830F	FET	
R530			RK73GB2A101J	CHIP R 100 J 1/10W		Q107			RD07MUS2BT112	FET	
R531			RK73GB2A000J	CHIP R 0 J 1/10W		Q108			LTC014EEBFS8	TRANSISTOR	
R532			RK73GB2A821J	CHIP R 820 J 1/10W		Q109			LTA044EEBFS8	TRANSISTOR	
R533			RK73GB2A104J	CHIP R 100K J 1/10W		Q110			LTC014TEBFS8	TRANSISTOR	
R534			RK73GB2A182J	CHIP R 1.8K J 1/10W		Q200			RT1P141U-T111	TRANSISTOR	
R535			RK73GB2A471J	CHIP R 470 J 1/10W		Q201			2SC4649(N,P)	TRANSISTOR	
R536			RK73HB1J102J	CHIP R 1.0K J 1/16W		Q202,203			3SK318	FET	
R537			RK73HB1J101J	CHIP R 100 J 1/16W		Q300			2SC4617(S)	TRANSISTOR	
R538			RK73GB2A101J	CHIP R 100 J 1/10W		Q302			2SK1824-A	FET	
R539			RK73HB1J000J	CHIP R 0 J 1/16W		Q303			LTA044EEBFS8	TRANSISTOR	
R540			RK73FB2B000J	CHIP R 0 J 1/8W		Q304			RT1N441U-T111	TRANSISTOR	
R541			RK73GB2A472J	CHIP R 4.7K J 1/10W		Q305			2SA1362-F(GR)	TRANSISTOR	
R542,543			RK73GB2A000J	CHIP R 0 J 1/10W		Q306			RT1N441U-T111	TRANSISTOR	
R548			RK73GB2A332J	CHIP R 3.3K J 1/10W		Q308			2SK3577-A	FET	
VR1		*	R32-0784-05	SEMI FIXED VARIABLE RESISTOR(68K)		Q400,401			LTC014EEBFS8	TRANSISTOR	
VR500		*	R32-0783-05	SEMI FIXED VARIABLE RESISTOR(220K)		Q402			LTA014YEBFS8	TRANSISTOR	
VR501			R32-0684-05	SEMI FIXED VARIABLE RESISTOR(47K)		Q403			LTC044EEBFS8	TRANSISTOR	
S402,403			S70-0414-05	TACT SWITCH		Q404			KRC660U-P	DIGITAL TRANSISTOR	
MIC500			T91-0651-15	MIC ELEMENT		Q405			UPA672T-A	FET	
D1 -4			MA2S376	VARIABLE CAPACITANCE DIODE		Q406			FP210	TRANSISTOR	
D5			1SV214-F	VARIABLE CAPACITANCE DIODE		Q407			KRC660U-P	DIGITAL TRANSISTOR	
D6 ,7			DA2S101	DIODE		Q408			LTA023JEBFS8	TRANSISTOR	
D100			HSC277	DIODE		Q500			2SK1824-A	FET	
D101			HVC131	DIODE		Q501,502			2SC4617(S)	TRANSISTOR	
D102,103			HSC277	DIODE		Q503			2SC4919	TRANSISTOR	
D104		*	RKZ4.7B2KJ	ZENER DIODE		Q504			DTA143ZEB	DIGITAL TRANSISTOR	
D105			HVC131	DIODE		TH102			ERTJ0EV104J	THERMISTOR	
D200			HSC277	DIODE		TH500,501			157-302-65801	THERMISTOR	
D201-204			HVC350B	VARIABLE CAPACITANCE DIODE							
D300			KDS123E-P	DIODE							
D500			1SS372F	DIODE							
D501			DAN222	DIODE							
D502			GN1G	DIODE							

TK-3107 PC BOARD

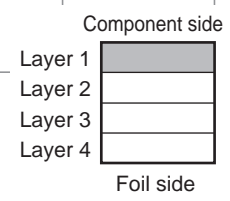
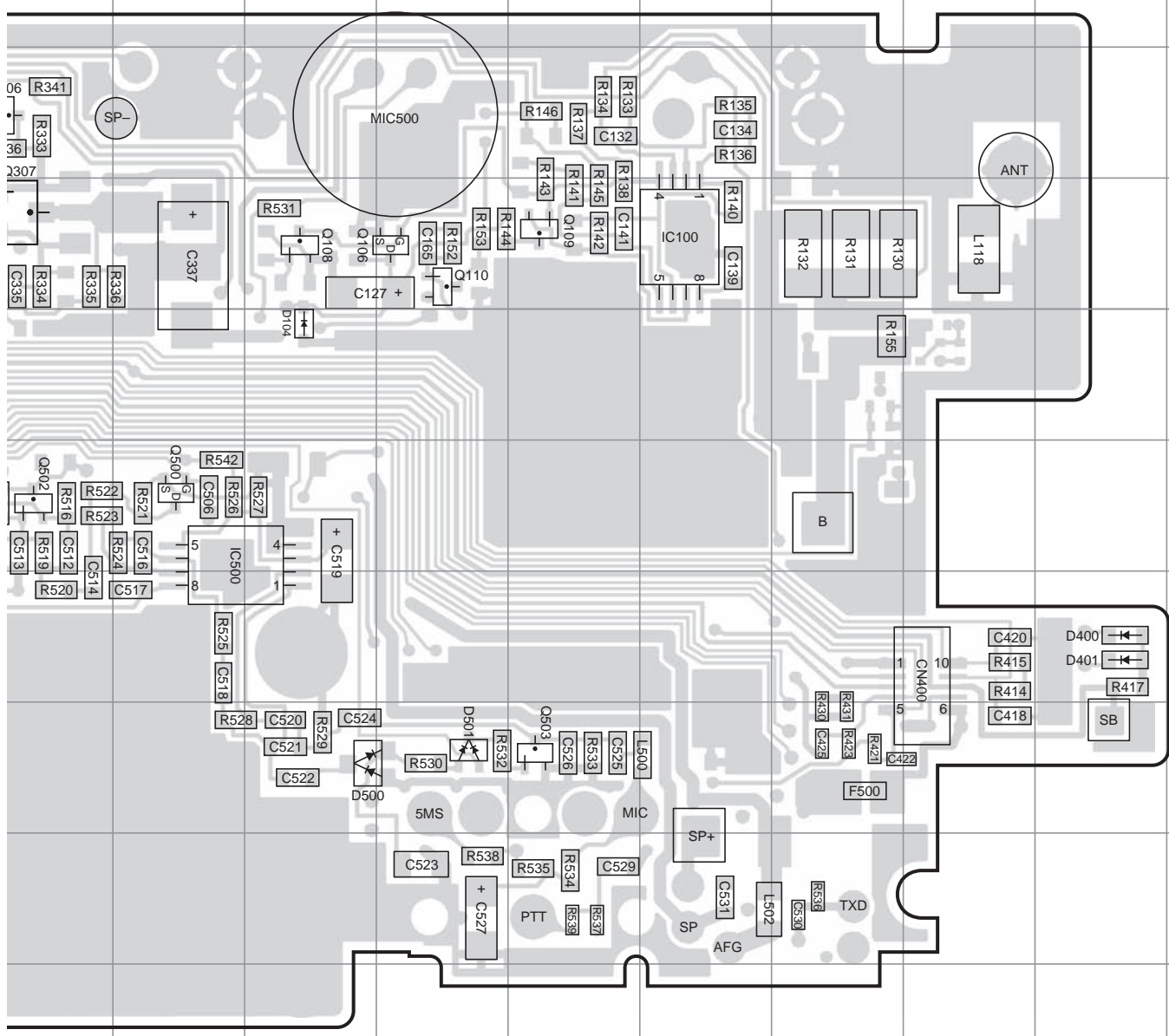
TX-RX UNIT (X57-6030-10)
Component side view (J79-0367-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC100	4O	Q108	4L	Q500	6K
IC302	4I	Q109	4N	Q501	6I
IC400	5D	Q110	4M	Q502	6J
IC401	9E	Q304	3H	Q503	8N
IC402	4D	Q305	4H	Q504	8F
IC403	6F	Q306	3J	D104	5L
IC404	8C	Q307	4K	D400	7R
IC500	6K	Q308	4J	D401	7R
Q104	5P	Q402	8C	D500	8L
Q106	4M	Q403	7D	D501	8M

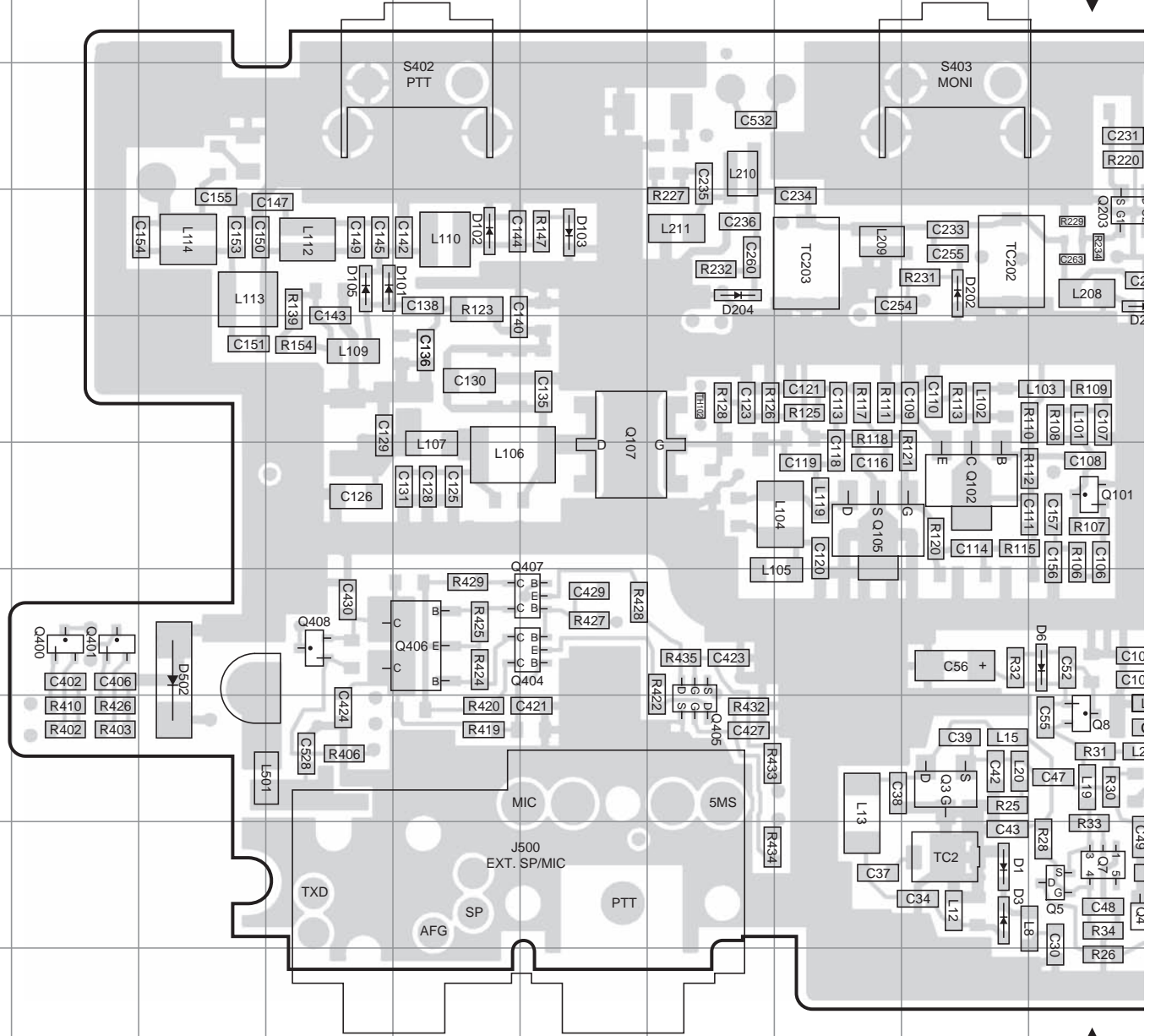
PC BOARD TK-3107

TX-RX UNIT (X57-6030-10)
Component side view (J79-0367-09)



TK-3107 PC BOARD

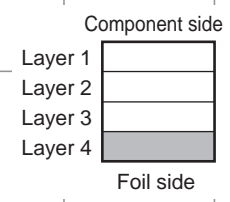
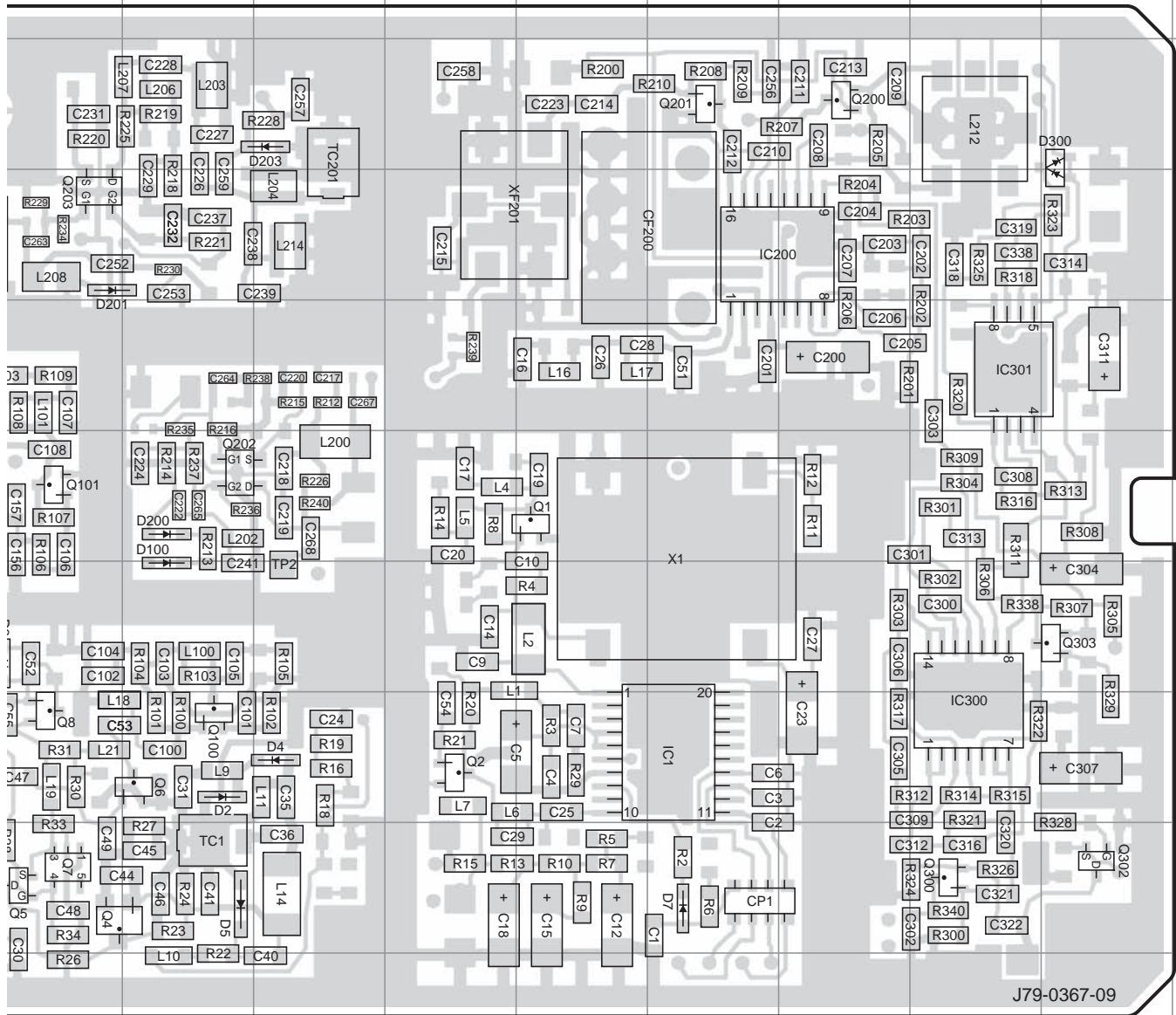
TX-RX UNIT (X57-6030-10)
Foil side view (J79-0367-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC1	8O	Q7	9J	Q203	4J	Q408	7D	D102	4E
IC200	4O	Q8	8J	Q300	9Q	D1	9I	D103	4F
IC300	8Q	Q100	8K	Q302	9R	D2	8K	D105	4D
IC301	5Q	Q101	6J	Q303	7R	D3	9I	D200	6K
Q1	6N	Q102	6I	Q400	7B	D4	8L	D201	4J
Q2	8M	Q105	6H	Q401	7B	D5	9K	D202	4I
Q3	8I	Q107	6F	Q404	7F	D6	7J	D203	3L
Q4	9J	Q200	3P	Q405	8G	D7	9O	D204	4G
Q5	9J	Q201	3O	Q406	7E	D100	6K	D300	3R
Q6	8K	Q202	6K	Q407	7F	D101	4D	D502	7C

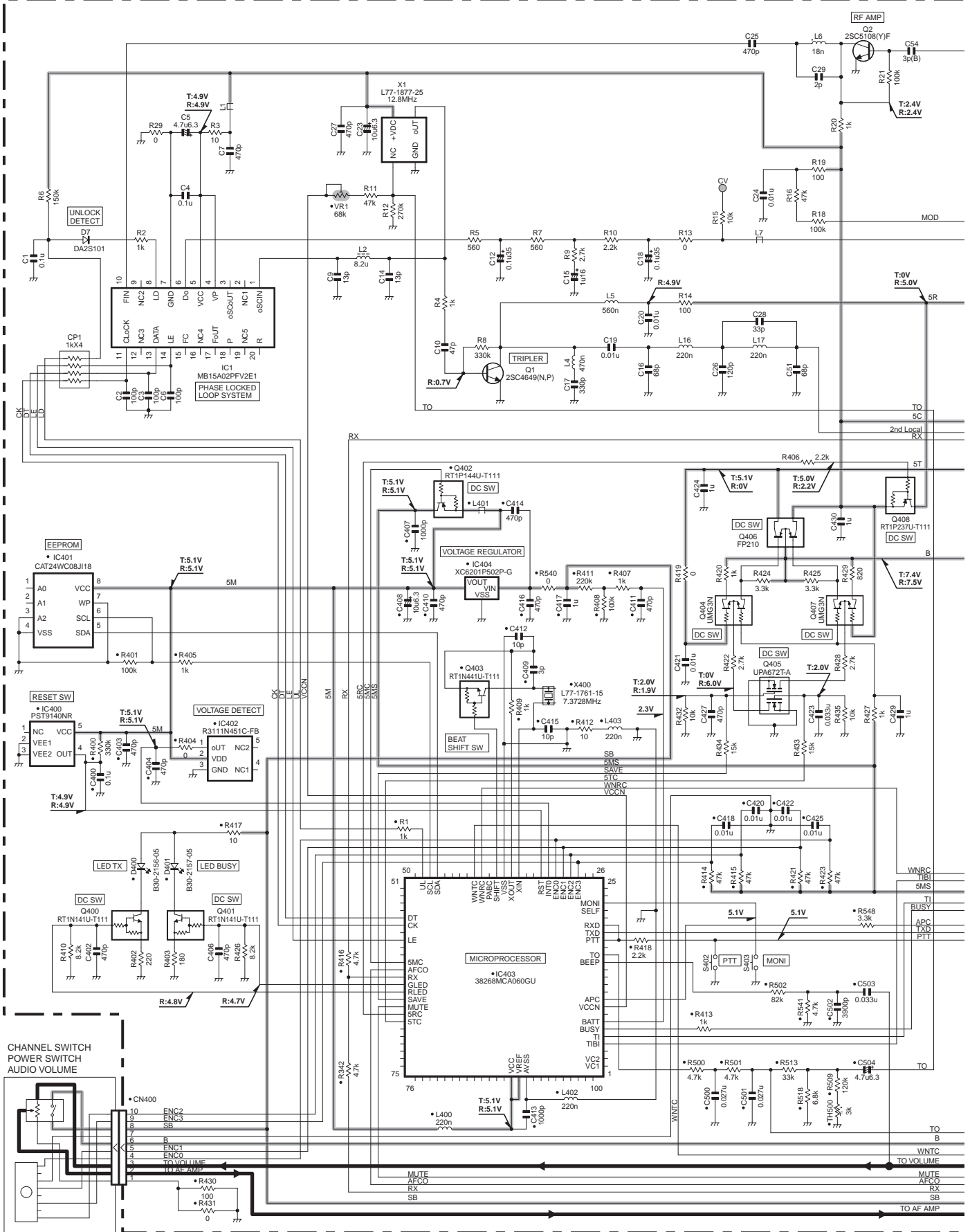
PC BOARD TK-3107

TX-RX UNIT (X57-6030-10)
Foil side view (J79-0367-09)



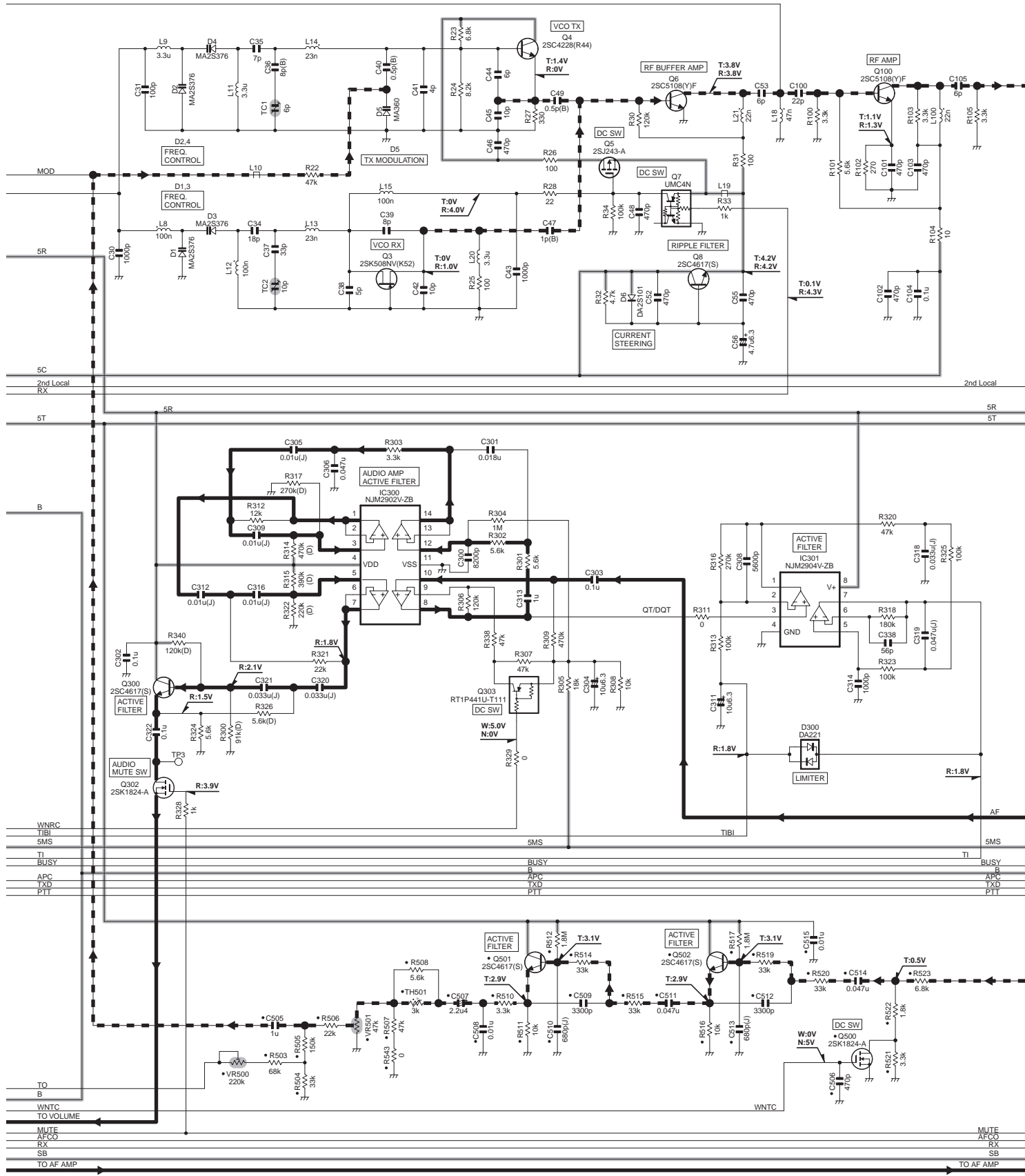
TK-3107 SCHEMATIC DIAGRAM

TX-RX UNIT(X57-6030-10)



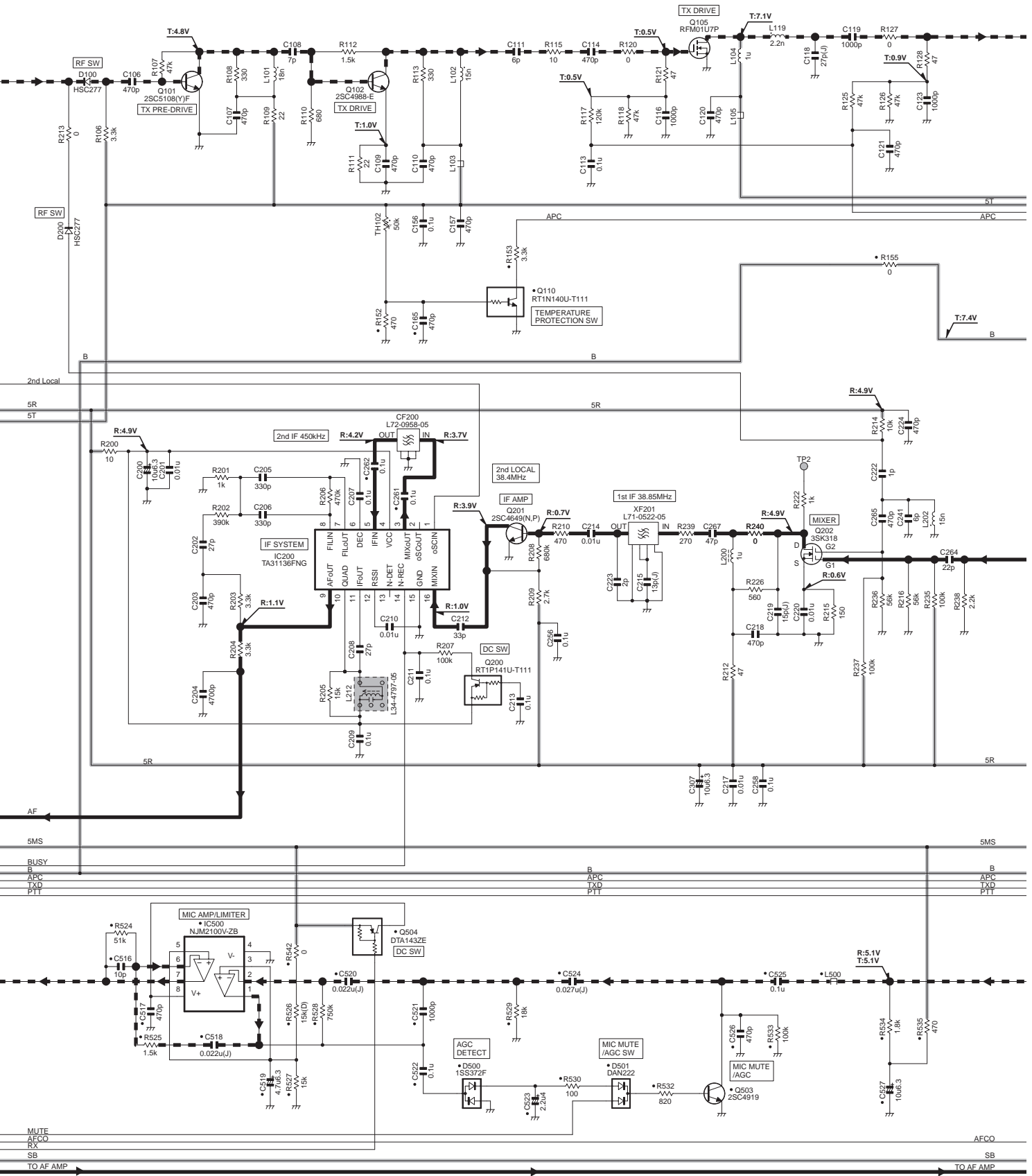
SCHEMATIC DIAGRAM TK-3107

TX-RX UNIT(X57-6030-10)



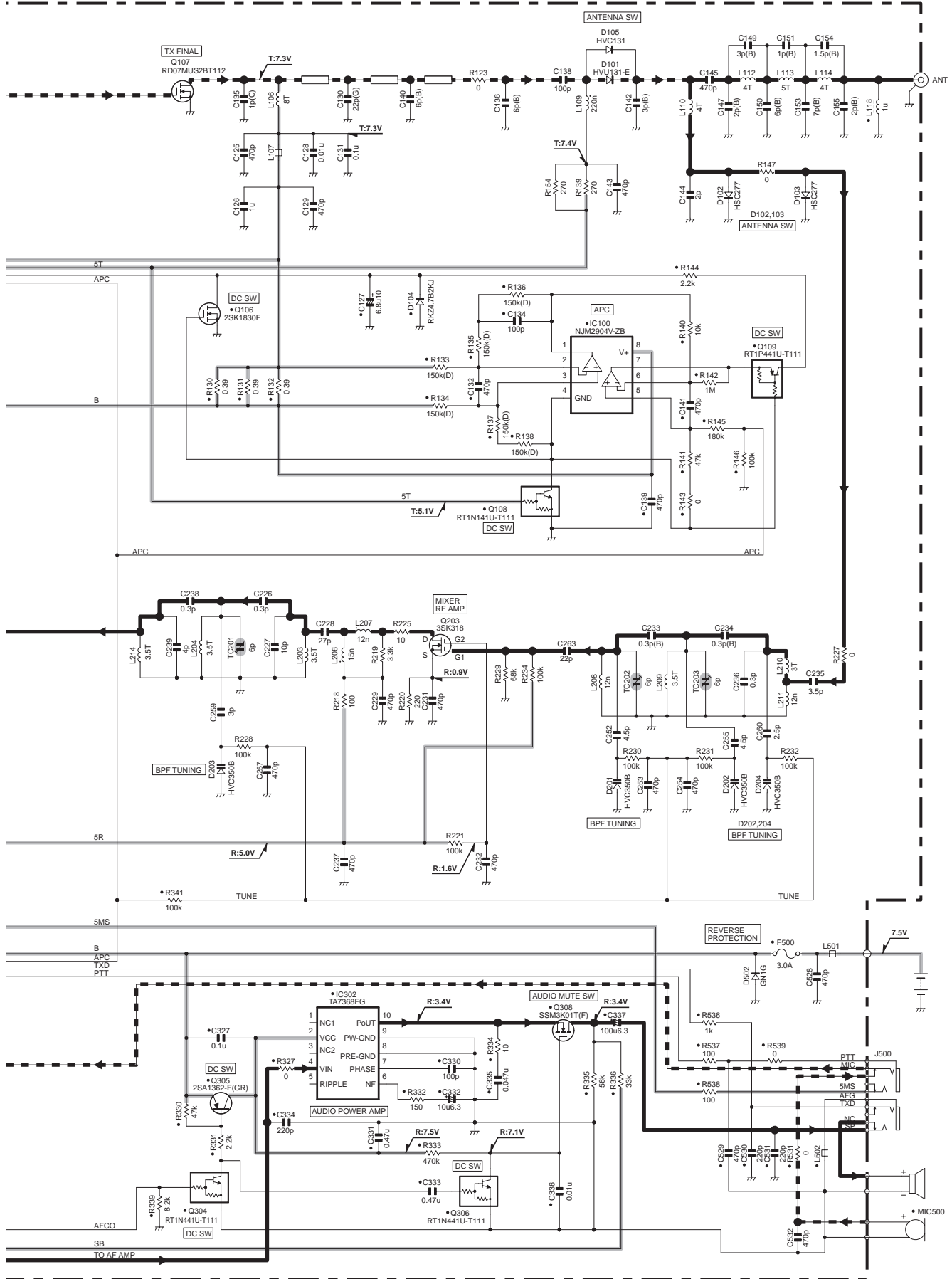
TK-3107 SCHEMATIC DIAGRAM

TX-RX UNIT(X57-6030-10)



SCHEMATIC DIAGRAM TK-3107

TX-RX UNIT(X57-6030-10)



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

TK-3107

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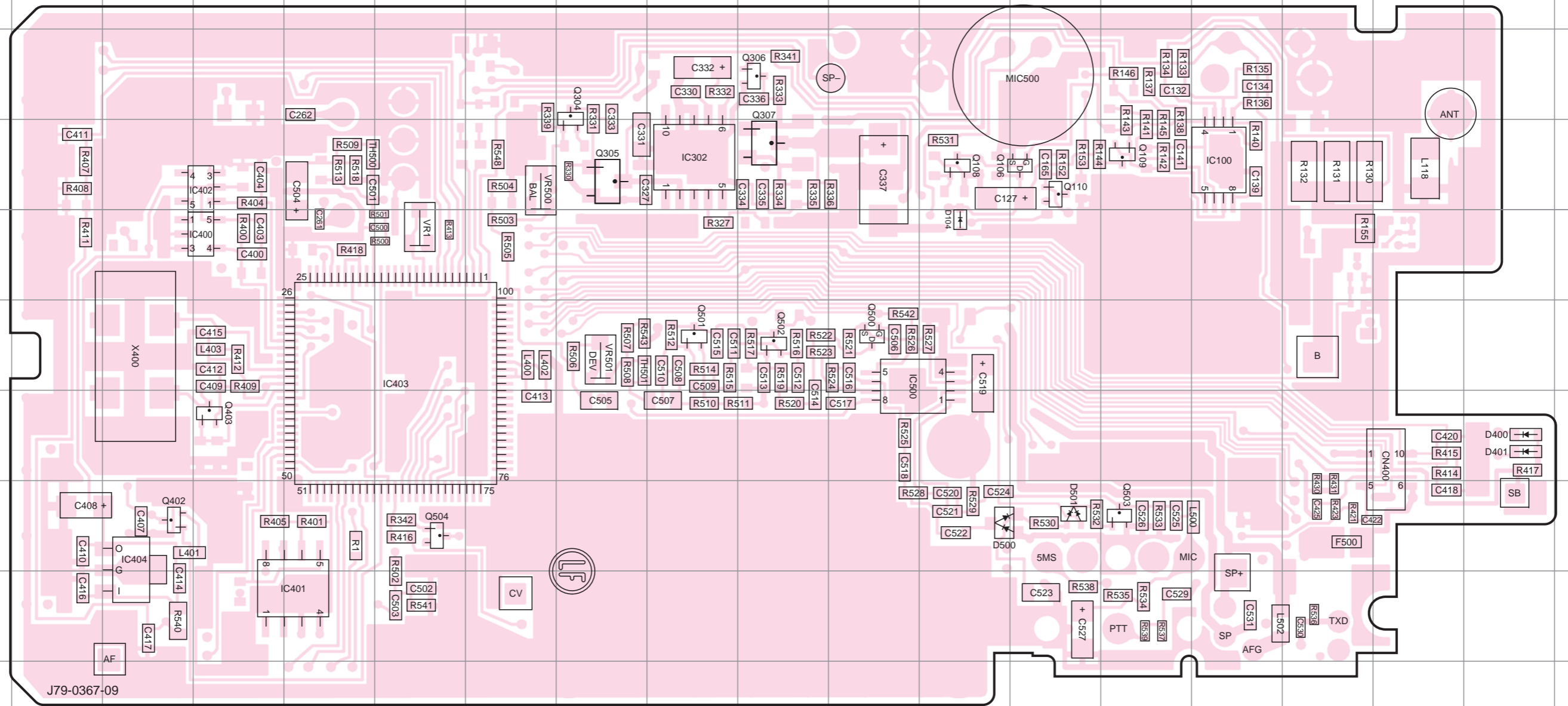
1 Anq Mo Kio Street 63, Singapore 569110

TK-3107 PC BOARD

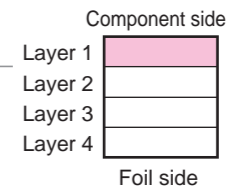
PC BOARD TK-3107

**TX-RX UNIT (X57-6030-10)
Component side view (J79-0367-09)**

**TX-RX UNIT (X57-6030-10)
Component side view (J79-0367-09)**



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC100	4O	Q108	4L	Q500	6K
IC302	4I	Q109	4N	Q501	6I
IC400	5D	Q110	4M	Q502	6J
IC401	9E	Q304	3H	Q503	8N
IC402	4D	Q305	4H	Q504	8F
IC403	6F	Q306	3J	D104	5L
IC404	8C	Q307	4K	D400	7R
IC500	6K	Q308	4J	D401	7R
Q104	5P	Q402	8C	D500	8L
Q106	4M	Q403	7D	D501	8M

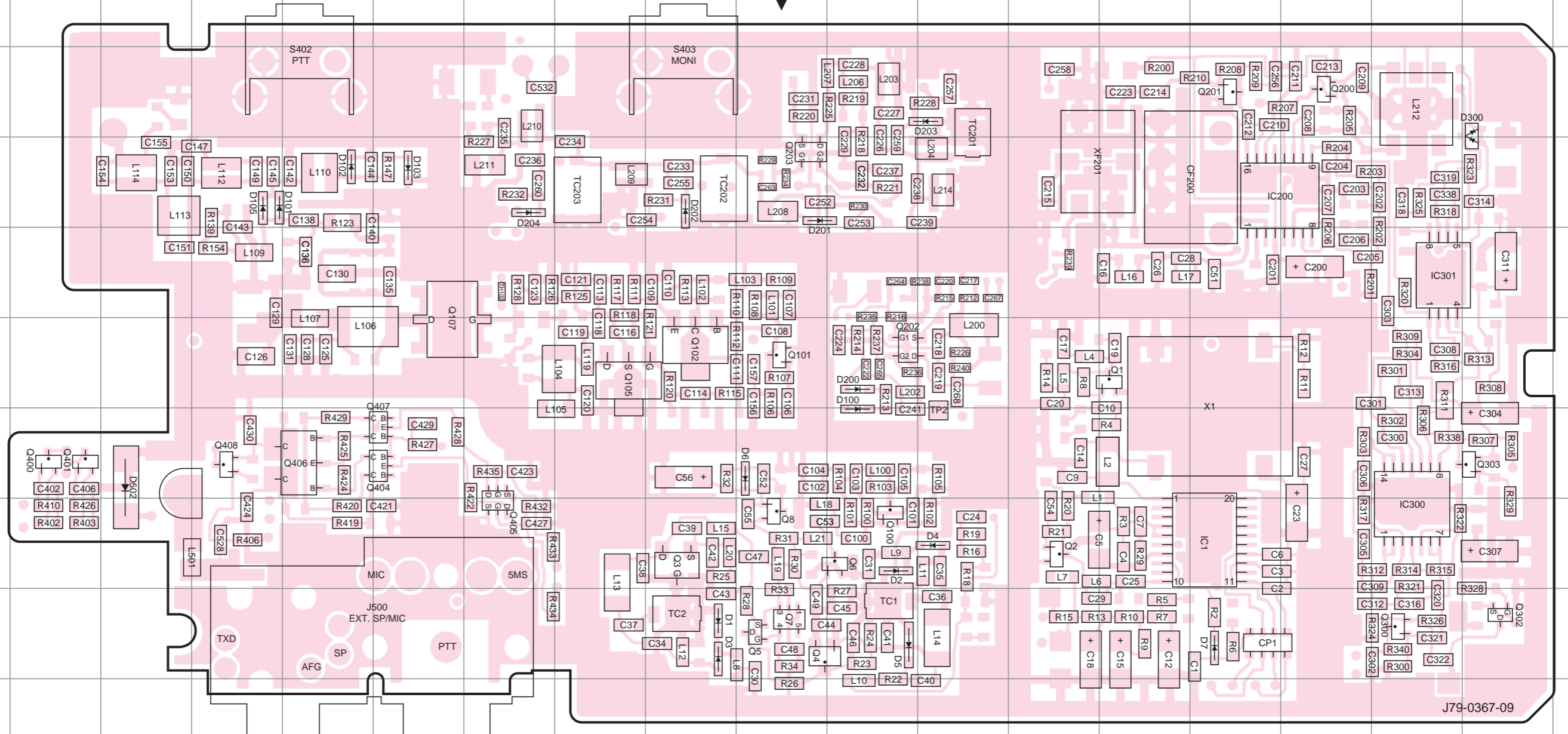


TK-3107 PC BOARD

PC BOARD TK-3107

TX-RX UNIT (X57-6030-10)
Foil side view (J79-0367-09)

TX-RX UNIT (X57-6030-10)
Foil side view (J79-0367-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC1	8O	Q7	9J	Q203	4J	Q408	7D	D102	4E
IC200	4O	Q8	8J	Q300	9Q	D1	9I	D103	4F
IC300	8Q	Q100	8K	Q302	9R	D2	8K	D105	4D
IC301	5Q	Q101	6J	Q303	7R	D3	9I	D200	6K
Q1	6N	Q102	6I	Q400	7B	D4	8L	D201	4J
Q2	8M	Q105	6H	Q401	7B	D5	9K	D202	4I
Q3	8I	Q107	6F	Q404	7F	D6	7J	D203	3L
Q4	9J	Q200	3P	Q405	8G	D7	9O	D204	4G
Q5	9J	Q201	3O	Q406	7E	D100	6K	D300	3R
Q6	8K	Q202	6K	Q407	7F	D101	4D	D502	7C

