

# KENWOOD

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VHF FM TRANSCEIVER

# TK-790/(B) TK-790H(B)

## SERVICE MANUAL SUPPLEMENT

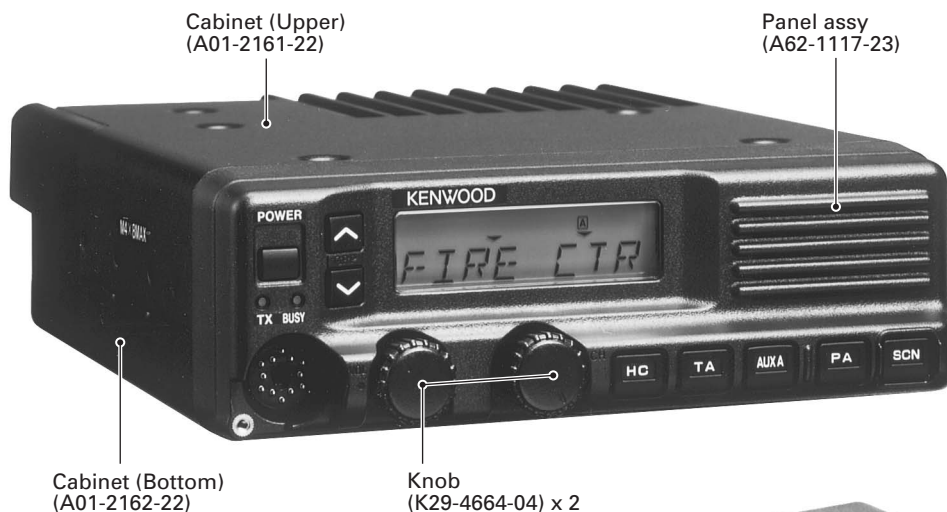
# KENWOOD

Kenwood Corporation

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B51-8769-00 (N) PDF

This service manual (B51-8769-00) applies to products with 705xxxxx (TK-790/(B)), 805xxxxx (TK-790H(B)), or subsequent serial numbers. Refer to the TK-790 series service manual for any information which has not been covered in this manual.

### TK-790 or TK-790(B) with KCH-10



### KCH-11



### TK-790H(B)



## CONTENTS

<b>PARTS LIST</b> .....	<b>3</b>
<b>EXPLODED VIEW (TK-790H(B))</b> .....	<b>10</b>
<b>ADJUSTMENT (Transmitting output adjustment)</b> .....	<b>11</b>
<b>PC BOARD</b>	
<b>FINAL UNIT (X45-3560-10)</b> .....	<b>12</b>
<b>TX-RX UNIT (X57-5610-XX) (A/3)</b> .....	<b>16</b>
<b>TX-RX UNIT (X57-5610-10) (C/3)</b> .....	<b>18</b>
<b>SCHEMATIC DIAGRAM</b>	
<b>FINAL UNIT (X45-3560-10)</b> .....	<b>20</b>
<b>TX-RX UNIT (X57-5610-XX) (A/3)</b> .....	<b>22</b>
<b>TX-RX UNIT (X57-5610-10) (C/3)</b> .....	<b>26</b>

## SERVICE MANUAL LIST

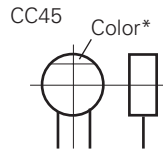
Title	Part number	Remarks	Unit number	PCB number
TK-790/(B) TK-790H(B)	B51-8438-00		X45-3560-10 X54-3190-20 (KCH-10) X54-3200-20 (KCH-11) X57-5610-XX	J72-0568-02 J72-0561-02 J72-0562-02 J72-0567-12
TK-790(B)	B51-8756-00	SUPPLEMENT	X57-5610-XX	J72-0567-12
TK-790/(B) TK-790H(B)	B51-8438-10	REVISED	X45-3560-10 X54-3190-20 (KCH-10) X54-3200-20 (KCH-11) X57-5610-XX	J72-0568-02 J72-0561-22 J72-0562-12 J72-0567-42
TK-790H(B)	B51-8718-00	SUPPLEMENT PDF ONLY	X45-3560-10	J72-0568-12
TK-790/(B) TK-790H(B)	B51-8769-00	SUPPLEMENT This service manual PDF ONLY	X45-3560-10 X57-5610-10 (A/3,C/3) X57-5610-12 (A/3)	J79-0032-09 J72-0990-09 J72-0567-52

## PARTS LIST

### CAPACITORS

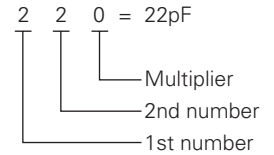
$\frac{C}{1} \frac{C}{2} \frac{45}{3} \frac{TH}{4} \frac{1H}{5} \frac{220}{6} \frac{J}{6}$

- 1 = Type ... ceramic, electrolytic, etc.
- 2 = Shape ... round, square, etc.
- 3 = Temp. coefficient
- 4 = Voltage rating
- 5 = Value
- 6 = Tolerance



#### • Capacitor value

- 010 = 1pF
- 100 = 10pF
- 101 = 100pF
- 102 = 1000pF = 0.001μF
- 103 = 0.01μF



#### • Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470±60ppm/°C

#### • Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF : -10~+50 Less than 4.7μF : -10~+75

#### (Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

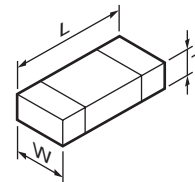
#### • Voltage rating

2nd word	A	B	C	D	E	F	G	H	J	K	V	
1st word	0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35	-
2	100	125	160	200	250	315	400	500	630	800	-	-
3	1000	1250	1600	2000	2500	2150	4000	5000	6300	8000	-	-

#### • Chip capacitors

- (EX)  $\frac{C}{1} \frac{C}{2} \frac{73}{3} \frac{F}{4} \frac{SL}{5} \frac{1H}{6} \frac{000}{7} \frac{J}{7}$  → Refer to the table above.
- 1 = Type
  - 2 = Shape
  - 3 = Dimension
  - 4 = Temp. coefficient
  - 5 = Voltage rating
  - 6 = Value
  - 7 = Tolerance
- (Chip) (CH, RH, UJ, SL)
- (EX)  $\frac{C}{1} \frac{K}{2} \frac{73}{3} \frac{F}{4} \frac{F}{5} \frac{1H}{6} \frac{000}{7} \frac{Z}{7}$
- (Chip) (B, F)

#### • Dimension



#### Chip capacitor

Code	L	W	T
Empty	5.6±0.5	5.0±0.5	Less than 2.0
A	4.5±0.5	3.2±0.4	Less than 2.0
B	4.5±0.5	2.0±0.3	Less than 2.0
C	4.5±0.5	1.25±0.2	Less than 1.25
D	3.2±0.4	2.5±0.3	Less than 1.5
E	3.2±0.2	1.6±0.2	Less than 1.25
F	2.0±0.3	1.25±0.2	Less than 1.25
G	1.6±0.2	0.8±0.2	Less than 1.0
H	1.0±0.05	0.5±0.05	0.5±0.05

#### Chip resistor

Code	L	W	T
E	3.2±0.2	1.6±0.2	1.0
F	2.0±0.3	1.25±0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1
H	1.0±0.05	0.5±0.05	0.35±0.05

#### • Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

### RESISTORS

#### • Chip resistor (Carbon)

- (EX)  $\frac{R}{1} \frac{D}{2} \frac{73}{3} \frac{E}{4} \frac{B}{5} \frac{2B}{6} \frac{000}{7} \frac{J}{7}$
- (Chip) (B, F)

#### • Carbon resistor (Normal type)

- (EX)  $\frac{R}{1} \frac{D}{2} \frac{14}{3} \frac{B}{4} \frac{B}{5} \frac{2C}{6} \frac{000}{7} \frac{J}{7}$

- 1 = Type
- 2 = Shape
- 3 = Dimension
- 4 = Temp. coefficient
- 5 = Rating wattage
- 6 = Value
- 7 = Tolerance

# TK-790/(B), TK-790H(B)

## PARTS LIST

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

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

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

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

L : Scandinavia

Y : PX (Far East, Hawaii)

Y : AAFES (Europe)

K : USA

T : England

X : Australia

P : Canada

E : Europe

M : Other Areas

### TK-790H(B) (Y51-4490-10)

### FINAL UNIT (X45-3560-10)

Ref. No.	Address	New parts	Parts No.	Description	Destination
<b>TK-790H(B)</b>					
1	3A		A01-2163-21	METALLIC CABINET (UPPER)	HK
2	1B		A01-2164-21	METALLIC CABINET (BOTTOM)	HK
-			B62-0970-20	INSTRUCTION MANUAL	HK
6	2B		E04-0167-05	RF COAXIAL RECEPTACLE (M)	HK
7	1A		E31-3301-05	CORD WITH MINIPIN PLUG (CN203-CN1)	HK
8	1A		E37-0179-05	CORD WITH MINIPIN PLUG (CN104-CN2)	HK
9	2B		E37-0709-05	CORD WITH CONNECTOR (ACC 9P)	HK
10	2B		E37-0731-05	CORD WIRE WITH CONNECTOR (DC 4P)	HK
11	2B		E37-0733-05	SQUARE PLUG ACCESSORY	HK
12	2B		E37-0773-35	CORD WIRE WITH CONNECTOR (D-SUB)	HK
13	2A,3A		E37-0776-15	FLAT CABLE	HK
15	1B		F10-1488-02	SHIELDING PLATE (FINAL)	HK
16	1A		F10-2265-13	SHIELDING COVER (VCO)	HK
17	1A		F10-3015-04	SHIELDING PLATE (LPF)	HK
18	1A		F10-3016-04	SHIELDING PLATE (PM)	HK
19	1A		F10-3039-04	SHIELDING PLATE (DC)	HK
20	2A		F10-3040-04	SHIELDING PLATE (ACC)	HK
-			F29-0472-04	INSULATING COVER	HK
23	3A		G02-0709-04	FLAT SPRING (AUDIO AMP)	HK
24	3A		G02-0715-04	FLAT SPRING	HK
25	1A		G02-0729-14	FLAT SPRING (FINAL)	HK
26	1A		G02-0894-04	EARTH SPRING	HK
27	2B		G53-0715-03	PACKING	HK
28	3A		G53-0871-03	PACKING (UPPER CABINET)	HK
29	1B		G53-0872-03	PACKING (BOTTOM CABINET)	HK
30	2B		G53-1626-03	PACKING	HK
31	2B		G53-1687-04	PACKING	HK
33	2B		J21-8347-04	MOUNTING HARDWARE	HK
34	2B		J21-8503-12	MOUNTING HARDWARE	HK
35	2B		J32-0722-04	HEXAGON BOSS	HK
-			J61-0307-05	BAND ACCESSORY	HK
A	2B		N09-2292-05	HEXAGON HEAD SCREW	HK
B	3A,1B		N33-3006-43	OVAL HEAD MACHINE SCREW	HK
C	1A		N35-2604-43	BINDING HEAD MACHINE SCREW	HK
D	1A		N67-3008-48	PAN HEAD SEMS SCREW	HK
E	1A	*	N68-3008-48	PAN HEAD SEMS SCREW	HK
F	1A	*	N68-4006-48	PAN HEAD SEMS SCREW	HK
G	1A,2A,3A		N87-2606-48	BRAZIER HEAD TAPTITE SCREW	HK
H	1A		N87-2612-48	BRAZIER HEAD TAPTITE SCREW	HK
J	2B	*	N87-3008-48	BRAZIER HEAD TAPTITE SCREW	HK
-		*	N99-2051-05	SCREW SET	HK
<b>FINAL UNIT (X45-3560-10) : TK-790H(B)</b>					
C1			CC73FCH1H050C	CHIP C 5.0PF C	HK
C2			CK73GB1H102K	CHIP C 1000PF K	HK
C5			CK73GB1H102K	CHIP C 1000PF K	HK
C6			CK73FB1H102K	CHIP C 1000PF K	HK
C8			CK73GB1H102K	CHIP C 1000PF K	HK
C9			CK73FB1H102K	CHIP C 1000PF K	HK
C10			CK73GB1H102K	CHIP C 1000PF K	HK

Ref. No.	Address	New parts	Parts No.	Description	Destination
C11			C90-4126-05	ELECTRO 680UF 25WV	HK
C12			CK73GB1H102K	CHIP C 1000PF K	HK
C14,15			C93-0563-05	CHIP C 18PF J	HK
C16,17			C93-0603-05	CHIP C 1000PF K	HK
C18			CK73GB1H102K	CHIP C 1000PF K	HK
C19			CC73FCH1H050C	CHIP C 5.0PF C	HK
C20			C93-0559-05	CHIP C 9.0PF D	HK
C21,22			C93-0568-05	CHIP C 47PF J	HK
C23			CK73GB1C104K	CHIP C 0.10UF K	HK
C24			CK73GB1H102K	CHIP C 1000PF K	HK
C25,26			C93-0603-05	CHIP C 1000PF K	HK
C28			CK73GB1H102K	CHIP C 1000PF K	HK
C29-32			C93-0573-05	CHIP C 120PF J	HK
C33			CK73GB1H102K	CHIP C 1000PF K	HK
C34,35			C93-0573-05	CHIP C 120PF J	HK
C40,41			CC73FCH1H471J	CHIP C 470PF J	HK
C42,43			C93-0868-05	MICA CAP 240PF 300WV	HK
C44,45			CK73FB1H103K	CHIP C 0.010UF K	HK
C46,47			CM73F2H101J	CHIP C 100PF J	HK
C48,49			CK73FB1E104K	CHIP C 0.10UF K	HK
C50,51			C90-4126-05	ELECTRO 680UF 25WV	HK
C53,54			CM73F2H300J	CHIP C 30PF J	HK
C56			C93-0571-05	CHIP C 82PF J	HK
C57			C93-0603-05	CHIP C 1000PF K	HK
C58			CM73F2H090D	CHIP C 9.0PF D	HK
C59			C93-0571-05	CHIP C 82PF J	HK
C62			CM73F2H180J	CHIP C 18PF J	HK
C63			CM73F2H181J	CHIP C 180PF J	HK
C64			CC73FCH1H220J	CHIP C 22PF J	HK
C65			CK73FB1H102K	CHIP C 1000PF K	HK
C66			C90-4085-05	ELECTRO 47UF 20WV	HK
C67			CK73FB1H102K	CHIP C 1000PF K	HK
C70			CM73F2H181J	CHIP C 180PF J	HK
C71			CK73FB1H102K	CHIP C 1000PF K	HK
C72			C93-0603-05	CHIP C 1000PF K	HK
C73			CK73FB1H102K	CHIP C 1000PF K	HK
C74			CM73F2H060D	CHIP C 6.0PF D	HK
C75			CM73F2H100D	CHIP C 10PF D	HK
C76			CK73FB1H102K	CHIP C 1000PF K	HK
C77			CM73F2H101J	CHIP C 100PF J	HK
C78			CM73F2H270F	CHIP C 27PF F	HK
C79			CC73FCH1H090D	CHIP C 9.0PF D	HK
C80			C92-0777-05	ELECTRO 1000UF 25WV	HK
C81			CM73F2H270F	CHIP C 27PF F	HK
C82			C93-0603-05	CHIP C 1000PF K	HK
C83			CM73F2H270F	CHIP C 27PF F	HK
C84			CK73FB1H102K	CHIP C 1000PF K	HK
C85			CM73F2H220C	CHIP C 22PF C	HK
C86			CK73FB1H102K	CHIP C 1000PF K	HK
C87,88			CK73GB1H102K	CHIP C 1000PF K	HK
C89			CK73FB1H102K	CHIP C 1000PF K	HK
C91			CK73FB1H102K	CHIP C 1000PF K	HK
C93			CM73F2H240C	CHIP C 24PF C	HK
C95			CK73GB1H102K	CHIP C 1000PF K	HK
C97			CM73F2H220C	CHIP C 22PF C	HK

## PARTS LIST

FINAL UNIT (X45-3560-10)  
TX-RX UNIT (X57-5610-XX) (A/3)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
C98			CC73FCH1H101J	CHIP C 100PF J	HK	R78			RK73GB1J103J	CHIP R 10K J 1/16W	HK
CN1,2			E04-0154-05	PIN SOCKET	HK	R81,82			RK73PB2H2R7J	CHIP R 2.7 J 1/2W	HK
CN3,4			E23-1116-05	RELAY TERMINAL	HK	R83			RK73FB2A224J	CHIP R 220K J 1/10W	HK
CN10			E23-1118-05	TERMINAL	HK	VR1			R12-6431-05	TRIMMING POT. (220K/12)	HK
W2		*	E37-1218-05	LEAD WIRE WITH CONNECTOR (3P)	HK	D1			Q2DZ5.6(X,Y)	ZENER DIODE	HK
W3			E37-0701-05	LEAD WIRE WITH CONNECTOR (5P)	HK	D3,4			HSM88AS	DIODE	HK
L1			L41-4778-08	SMALL FIXED INDUCTOR (47NH)	HK	D6			MA4P4002F	DIODE	HK
L2,3			L34-4520-05	AIR-CORE COIL	HK	D8,9			MA4PH633	DIODE	HK
L4,5			L34-4556-05	AIR-CORE COIL	HK	D10			ZSH5MA27	SURGE ABSORBER	HK
L6,7			L34-4520-05	AIR-CORE COIL	HK	D11			DF25V60	DIODE	HK
L8,9			L34-4517-05	AIR-CORE COIL	HK	D12			MA2S111	DIODE	HK
L10,11			L34-4520-05	AIR-CORE COIL	HK	D13		*	CSA70-401L	SURGE ABSORBER	HK
L13			L34-4523-05	AIR-CORE COIL	HK	IC1	1A	*	RA13H1317M131	MOS-IC	HK
L14-17			L34-4805-05	AIR-CORE COIL	HK	IC2			TA75W01FU	MOS-IC	HK
L18-22			L92-0179-05	CHIP FERRITE	HK	IC3			TA75S01F	MOS-IC	HK
R5			R92-0670-05	CHIP R 0 OHM	HK	Q1,2		*	RD100HHF1-102	FET	HK
R6			RK73GB1J103J	CHIP R 10K J 1/16W	HK	Q3,4			2SC2712-F(Y)	TRANSISTOR	HK
R7			RK73GB1J272J	CHIP R 2.7K J 1/16W	HK	TH1			S1R104J475H	THERMISTOR	HK
R8,9			R92-1252-05	CHIP R 0 OHM J 1/16W	HK	<b>TX-RX UNIT (X57-5610-XX) (A/3) -10 : TK-790/(B) -12 : TK-790H(B)</b>					
R10			RK73GB1J102J	CHIP R 1.0K J 1/16W	HK	C101			CK73GB1H103K	CHIP C 0.010UF K	
R11			RK73GB1J103J	CHIP R 10K J 1/16W	HK	C102,103			CC73GCH1H220J	CHIP C 22PF J	
R13			RK73GB1J101J	CHIP R 100 J 1/16W	HK	C104			CC73GCH1H180J	CHIP C 18PF J	
R14			RK73GB1J274J	CHIP R 270K J 1/16W	HK	C105			CC73GCH1H101J	CHIP C 100PF J	
R15			RK73GB1J334J	CHIP R 330K J 1/16W	HK	C106			CK73GB1H103K	CHIP C 0.010UF K	
R16			RK73GB1J473J	CHIP R 47K J 1/16W	HK	C107			CC73GCH1H101J	CHIP C 100PF J	
R17,18			RK73PB2H2R7J	CHIP R 2.7 J 1/2W	HK	C108			CC73GCH1H100D	CHIP C 10PF D	
R20			RK73GB1J332J	CHIP R 3.3K J 1/16W	HK	C110			CC73GCH1H100D	CHIP C 10PF D	
R21			R92-1252-05	CHIP R 0 OHM J 1/16W	HK	C111			CC73GCH1H020C	CHIP C 2.0PF C	
R23,24			RK73GB1J104J	CHIP R 100K J 1/16W	HK	C112			CK73GB1H103K	CHIP C 0.010UF K	
R25			R92-1221-05	CHIP R 82 J 1/4W	HK	C113			CK73GB1H102K	CHIP C 1000PF K	
R26			RK73FB2A101J	CHIP R 100 J 1/10W	HK	C114			CC73GCH1H100D	CHIP C 10PF D	
R27			R92-1204-05	CHIP R 100 J 1/4W	HK	C116			CC73GCH1H020C	CHIP C 2.0PF C	
R28		*	RK73PB2H151J	CHIP R 150 J 1/2W	HK	C117			CC73GCH1H680J	CHIP C 68PF J	
R31			R92-0670-05	CHIP R 0 OHM	HK	C118			CC73GCH1H080D	CHIP C 8.0PF D	
R33			R92-1252-05	CHIP R 0 OHM J 1/16W	HK	C119			CC73GCH1H180J	CHIP C 18PF J	
R36			RK73FB2A221J	CHIP R 220 J 1/10W	HK	C120			CC73GCH1H120J	CHIP C 12PF J	
R37			RK73FB2A820J	CHIP R 82 J 1/10W	HK	C121			CC73GCH1H101J	CHIP C 100PF J	
R38			RK73FB2A102J	CHIP R 1.0K J 1/10W	HK	C123			CC73GCH1H221J	CHIP C 220PF J	
R39			RK73FB2A273J	CHIP R 27K J 1/10W	HK	C124			CC73GCH1H330J	CHIP C 33PF J	
R40			R92-0670-05	CHIP R 0 OHM	HK	C125			CK73GB1H103K	CHIP C 0.010UF K	
R41			RK73FB2A334J	CHIP R 330K J 1/10W	HK	C126			CC73GCH1H150J	CHIP C 15PF J	
R43,44			R92-2673-05	CHIP R 1.0 J 1W	HK	C127			CC73GCH1H151J	CHIP C 150PF J	
R46-48			R92-2673-05	CHIP R 1.0 J 1W	HK	C128			CC73GCH1H030C	CHIP C 3.0PF C	
R49			RK73PB2H180J	CHIP R 18 J 1/2W	HK	C129			CC73GCH1H101J	CHIP C 100PF J	
R54			R92-0670-05	CHIP R 0 OHM	HK	C130			CC73GCH1H270J	CHIP C 27PF J	
R56,57			RK73FB2A103J	CHIP R 10K J 1/10W	HK	C131			CK73GB1H102K	CHIP C 1000PF K	
R58			RK73GB1J102J	CHIP R 1.0K J 1/16W	HK	C132			CC73GCH1H030C	CHIP C 3.0PF C	
R59			RK73PB2H180J	CHIP R 18 J 1/2W	HK	C133			CC73GCH1H270J	CHIP C 27PF J	
R60,61		*	RK73PB2H150J	CHIP R 15 J 1/2W	HK	C134,135			CK73GB1H103K	CHIP C 0.010UF K	
R62-65			RK73PB2H180J	CHIP R 18 J 1/2W	HK	C138-140			CC73GCH1H030C	CHIP C 3.0PF C	
R66,67		*	RK73PB2H150J	CHIP R 15 J 1/2W	HK	C141			CC73GCH1H040C	CHIP C 4.0PF C	
R68,69			RK73PB2H180J	CHIP R 18 J 1/2W	HK	C143			CK73GB1H102K	CHIP C 1000PF K	
R70		*	RK73PB2H151J	CHIP R 150 J 1/2W	HK	C144			CC73GCH1H101J	CHIP C 100PF J	
R71,72			RN73GH1J103D	CHIP R 10K D 1/16W	HK	C145,146			CC73GCH1H030C	CHIP C 3.0PF C	
R73			RK73GB1J332J	CHIP R 3.3K J 1/16W	HK	C147			CC73FCH1H090D	CHIP C 9.0PF D	
R74			RK73GB1J104J	CHIP R 100K J 1/16W	HK	C148			CK73GB1H102K	CHIP C 1000PF K	
R75			RK73GB1J564J	CHIP R 560K J 1/16W	HK	C151,152			CK73GB1H103K	CHIP C 0.010UF K	
R76			RK73GB1J102J	CHIP R 1.0K J 1/16W	HK						
R77			RK73GB1J683J	CHIP R 68K J 1/16W	HK						

K : TK-790/(B)  
HK : TK-790H(B)If a part reference number is listed in a shaded box,  
that part does not come with the PCB.

## TK-790/(B),TK-790H(B)

## PARTS LIST

## TX-RX UNIT (X57-5610-XX) (A/3)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C153,154			CK73GB1H102K	CHIP C 1000PF K		C312			CS77AA1V0R1M	CHIP TNTL 0.1UF 35WV	
C155			CC73GCH1H100D	CHIP C 10PF D		C313			C92-1341-05	ELECTRO 100UF 16WV	
C156			CK73FB1E104K	CHIP C 0.10UF K		C314			C90-4016-05	ELECTRO 47UF 16WV	
C157			CC73GCH1H090D	CHIP C 9.0PF D		C315			CC73GCH1H100D	CHIP C 10PF D	
C158			CC73GCH1H101J	CHIP C 100PF J		C316,317			CK73GB1H103K	CHIP C 0.010UF K	
C159			CC73GCH1H220J	CHIP C 22PF J		C318,319			CS77AA1A2R2M	CHIP TNTL 2.2UF 10WV	
C160			CK73GB1H102K	CHIP C 1000PF K		C320			CK73FB1E224K	CHIP C 0.22UF K	
C161-163			CK73GB1H103K	CHIP C 0.010UF K		C321			CS77AA1ER47M	CHIP TNTL 0.47UF 25WV	
C165		*	CS77BA0J100M	CHIP TNTL 10UF 6.3WV		C322			CK73GB1H102K	CHIP C 1000PF K	
C166			CC73GCH1H080D	CHIP C 8.0PF D		C323			CC73GCH1H240J	CHIP C 24PF J	
C167			CC73GCH1H270J	CHIP C 27PF J		C324			CK73GB1H102K	CHIP C 1000PF K	
C168			CK73FB1E104K	CHIP C 0.10UF K		C325			CC73GCH1H360J	CHIP C 36PF J	
C169			CK73GB1H103K	CHIP C 0.010UF K		C326			CC73GCH1H050C	CHIP C 5.0PF C	
C170,171			CC73GCH1H221J	CHIP C 220PF J		C327			CC73GCH1H470J	CHIP C 47PF J	
C172			CK73GB1H472K	CHIP C 4700PF K		C328			CC73GCH1H180G	CHIP C 18PF G	
C173			CK73GB1H103K	CHIP C 0.010UF K		C329			CK73GB1H102K	CHIP C 1000PF K	
C174			CK73FB1E104K	CHIP C 0.10UF K		C330			CC73GCH1HR75C	CHIP C 0.75PF C	
C175			CK73GB1C333K	CHIP C 0.033UF K		C331			CC73GCH1H150J	CHIP C 15PF J	
C176			CS77AA1ER47M	CHIP TNTL 0.47UF 25WV		C332			CK73FB1C474K	CHIP C 0.47UF K	
C177			CK73GB1H102K	CHIP C 1000PF K		C333			CC73GCH1H150J	CHIP C 15PF J	
C178			CK73GB1H103K	CHIP C 0.010UF K		C334,335			CC73GCH1H120J	CHIP C 12PF J	
C179-182			CC73GCH1H470J	CHIP C 47PF J		C336			CC73GCH1H150J	CHIP C 15PF J	
C183-185			CC73GCH1H150J	CHIP C 15PF J		C337-339			CK73GB1H102K	CHIP C 1000PF K	
C186			CC73GCH1H330J	CHIP C 33PF J		C340,341			CC73GCH1H020C	CHIP C 2.0PF C	
C187,188			CC73GCH1H120J	CHIP C 12PF J		C342,343			CK73GB1H102K	CHIP C 1000PF K	
C189			CK73GB1E223K	CHIP C 0.022UF K		C344			CC73GCH1H100D	CHIP C 10PF D	
C190			CK73GB1H102K	CHIP C 1000PF K		C345-349			CK73GB1H102K	CHIP C 1000PF K	
C191			CK73GB1E223K	CHIP C 0.022UF K		C350			CC73GCH1H470J	CHIP C 47PF J	
C192			CK73FB1C334K	CHIP C 0.33UF K		C351-355			CK73GB1H102K	CHIP C 1000PF K	
C193			CK73GB1H102K	CHIP C 1000PF K		C356			CS77AA1A4R7M	CHIP TNTL 4.7UF 10WV	
C194		*	CS77BA0J100M	CHIP TNTL 10UF 6.3WV		C357		*	CS77BA0J100M	CHIP TNTL 10UF 6.3WV	
C195			CK73GB1H102K	CHIP C 1000PF K		C358			CK73GB1H102K	CHIP C 1000PF K	
C201			CK73GB1H471K	CHIP C 470PF K		C359			CC73GCH1H100D	CHIP C 10PF D	
C202			CC73GCH1H101J	CHIP C 100PF J		C360			CC73GCH1H050C	CHIP C 5.0PF C	
C203-205			CK73GB1H102K	CHIP C 1000PF K		C361			CK73FB1C474K	CHIP C 0.47UF K	
C206			CK73GB1H103K	CHIP C 0.010UF K		C362			CC73GCH1H270J	CHIP C 27PF J	
C207			C92-0670-05	ELECTRO 47UF 10WV		C363,364			CC73GCH1H030C	CHIP C 3.0PF C	
C208			CK73GB1H102K	CHIP C 1000PF K		C365,366			CC73GCH1H150J	CHIP C 15PF J	
C209			C92-0686-05	ELECTRO 1UF 50WV		C370			CK73GB1H102K	CHIP C 1000PF K	
C210			CK73GB1H102K	CHIP C 1000PF K		C371			CK73FB1H473K	CHIP C 0.047UF K	
C211			CC73GCH1H270J	CHIP C 27PF J		TC301,302			C05-0393-05	CERAMIC TRIMMER CAP (8PF)	
C213,214			CK73GB1H102K	CHIP C 1000PF K		CN101			E04-0154-05	PIN SOCKET	
C215			CK73FB1E104K	CHIP C 0.10UF K		CN102,103			E40-5538-05	PIN ASSY	
C216			CK73GB1C473K	CHIP C 0.047UF K		CN104			E04-0154-05	PIN SOCKET	
C217		*	CS77AB21C3R3M	CHIP TNTL 3.3UF 16WV		CN201			E40-5752-05	PIN ASSY	
C218,219			CK73GB1H102K	CHIP C 1000PF K		CN202			E40-5978-05	FLAT CABLE CONNECTOR	
C220			CC73FCH1H220J	CHIP C 22PF J		CN203			E04-0154-05	PIN SOCKET	
C221			CK73GB1H102K	CHIP C 1000PF K		A102			F10-2278-04	SHIELDING PLATE	
C222			C92-0670-05	ELECTRO 47UF 10WV		CF101			L72-0916-05	CERAMIC FILTER	
C223			CK73GB1H102K	CHIP C 1000PF K		CF102			L72-0939-05	CERAMIC FILTER	
C224			CK73FB1E104K	CHIP C 0.10UF K		CF103			L72-0916-05	CERAMIC FILTER	
C225-227			CK73GB1H102K	CHIP C 1000PF K		CF104			L72-0939-05	CERAMIC FILTER	
C301,302			CK73GB1H102K	CHIP C 1000PF K		L101		*	L41-8275-32	SMALL FIXED INDUCTOR (0.082UH)	
C303			CK73GB1H103K	CHIP C 0.010UF K		L102		*	L41-3385-32	SMALL FIXED INDUCTOR (0.33UH)	
C304			CK73FB1E104K	CHIP C 0.10UF K		L103		*	L41-3375-32	SMALL FIXED INDUCTOR (0.033UH)	
C305			CK73GB1H102K	CHIP C 1000PF K		L104		*	L41-3385-32	SMALL FIXED INDUCTOR (0.33UH)	
C306,307			CK73GB1H103K	CHIP C 0.010UF K		L105		*	L41-8275-32	SMALL FIXED INDUCTOR (0.082UH)	
C308,309			CK73FB1E104K	CHIP C 0.10UF K		L107			L41-2785-32	SMALL FIXED INDUCTOR (0.27UH)	
C310		*	CS77CB21A220M	CHIP TNTL 22UF 10WV							
C311			C90-4016-05	ELECTRO 47UF 16WV							



## PARTS LIST

TX-RX UNIT (X57-5610-XX) (A/3)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
L109			L41-6885-33	SMALL FIXED INDUCTOR (0.68UH)		R136-138			RK73GB1J222J	CHIP R 2.2K J 1/16W	
L110-112			L34-4080-05	COIL		R139			RK73GB1J473J	CHIP R 47K J 1/16W	
L114,115			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)		R141			RK73GB1J102J	CHIP R 1.0K J 1/16W	
L117			L34-4794-05	COIL		R142			RK73GB1J472J	CHIP R 4.7K J 1/16W	
L118,119			L34-4793-05	COIL		R143			RK73GB1J470J	CHIP R 47 J 1/16W	
L120			L34-4794-05	COIL		R144			RK73GB1J153J	CHIP R 15K J 1/16W	
L121			L41-3975-33	SMALL FIXED INDUCTOR (0.039UH)		R145,146			RK73GB1J223J	CHIP R 22K J 1/16W	
L122			L34-4793-05	COIL		R148			RK73GB1J223J	CHIP R 22K J 1/16W	
L123			L34-4794-05	COIL		R149			RK73GB1J274J	CHIP R 270K J 1/16W	
L126			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R150,151			RK73GB1J223J	CHIP R 22K J 1/16W	
L127			L34-4725-05	COIL		R152			RK73GB1J472J	CHIP R 4.7K J 1/16W	
L128		*	L41-1885-33	SMALL FIXED INDUCTOR (0.18UH)		R153			RK73GB1J182J	CHIP R 1.8K J 1/16W	
L129			L40-1281-37	SMALL FIXED INDUCTOR (0.120UH)		R155			RK73GB1J472J	CHIP R 4.7K J 1/16W	
L130			L40-3381-37	SMALL FIXED INDUCTOR (0.330UH)		R156,157			RK73GB1J332J	CHIP R 3.3K J 1/16W	
L131			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)		R158			RK73GB1J821J	CHIP R 820 J 1/16W	
L132,133		*	L41-2775-32	SMALL FIXED INDUCTOR (0.027UH)		R159			RK73GB1J5R6J	CHIP R 5.6 J 1/16W	
L134			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R160			RK73GB1J821J	CHIP R 820 J 1/16W	
L135,136			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R161			R92-1252-05	CHIP R 0 OHM J 1/16W	
L201			L41-6875-33	SMALL FIXED INDUCTOR (0.068UH)		R162			RK73GB1J682J	CHIP R 6.8K J 1/16W	
L202			L41-8275-33	SMALL FIXED INDUCTOR (0.082UH)		R163			RK73GB1J182J	CHIP R 1.8K J 1/16W	
L301-304			L33-1268-15	SMALL FIXED INDUCTOR		R164			RK73GB1J101J	CHIP R 100 J 1/16W	
L305,306			L34-4592-05	AIR-CORE COIL		R165			RK73GB1J393J	CHIP R 39K J 1/16W	
L307-309			L33-1268-15	SMALL FIXED INDUCTOR		R166			RK73GB1J220J	CHIP R 22 J 1/16W	
L310			L41-8275-33	SMALL FIXED INDUCTOR (0.082UH)		R167			RK73GB1J102J	CHIP R 1.0K J 1/16W	
L311			L41-1085-33	SMALL FIXED INDUCTOR (0.1UH)		R201			RK73GB1J271J	CHIP R 270 J 1/16W	
L312			L92-0148-05	CHIP FERRITE		R202			RK73GB1J180J	CHIP R 18 J 1/16W	
L313,314			L41-3975-33	SMALL FIXED INDUCTOR (0.039UH)		R203			RK73GB1J102J	CHIP R 1.0K J 1/16W	
X101			L77-1736-05	CRYSTAL RESONATOR (45.305MHZ)		R204			RK73GB1J271J	CHIP R 270 J 1/16W	
X301		*	L77-1798-05	VCXO (16.8MHZ)		R205			RK73GB1J222J	CHIP R 2.2K J 1/16W	
XF101			L71-0512-05	MCF (44.85MHZ WIDE)		R206			RK73GB1J103J	CHIP R 10K J 1/16W	
XF102			L71-0513-05	MCF (44.85MHZ NARROW)		R207			RK73GB1J100J	CHIP R 10 J 1/16W	
R101			RK73GB1J470J	CHIP R 47 J 1/16W		R208			RK73GB1J121J	CHIP R 120 J 1/16W	HK
R102			RK73GB1J472J	CHIP R 4.7K J 1/16W		R208			RK73GB1J222J	CHIP R 2.2K J 1/16W	K
R103			RK73GB1J102J	CHIP R 1.0K J 1/16W		R209			RK73GB1J560J	CHIP R 56 J 1/16W	
R104			RK73GB1J120J	CHIP R 12 J 1/16W		R210			RK73GB1J470J	CHIP R 47 J 1/16W	
R105			RK73GB1J821J	CHIP R 820 J 1/16W		R211			RK73GB1J152J	CHIP R 1.5K J 1/16W	
R106			RK73GB1J330J	CHIP R 33 J 1/16W		R212			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R107			RK73GB1J821J	CHIP R 820 J 1/16W		R213			RK73GB1J473J	CHIP R 47K J 1/16W	
R108			RK73GB1J334J	CHIP R 330K J 1/16W		R214			RK73GB1J100J	CHIP R 10 J 1/16W	
R109			RK73GB1J332J	CHIP R 3.3K J 1/16W		R215			RK73GB1J473J	CHIP R 47K J 1/16W	
R110,111			RK73GB1J104J	CHIP R 100K J 1/16W		R216			R92-0685-05	CHIP R 22 J 1/2W	
R112			RK73GB1J102J	CHIP R 1.0K J 1/16W		R217			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R113-115			RK73GB1J104J	CHIP R 100K J 1/16W		R218			RK73FB2A181J	CHIP R 180 J 1/10W	HK
R116			R92-1252-05	CHIP R 0 OHM J 1/16W		R218			RK73FB2A821J	CHIP R 820 J 1/10W	K
R117			RK73GB1J101J	CHIP R 100 J 1/16W		R219,220			RK73FB2A100J	CHIP R 10 J 1/10W	K
R118			RK73GB1J473J	CHIP R 47K J 1/16W		R219,220			RK73FB2A680J	CHIP R 68 J 1/10W	HK
R119			RK73GB1J560J	CHIP R 56 J 1/16W		R221			RK73FB2A181J	CHIP R 180 J 1/10W	HK
R120			RK73GB1J102J	CHIP R 1.0K J 1/16W		R221			RK73FB2A821J	CHIP R 820 J 1/10W	K
R121			RK73FB2A821J	CHIP R 820 J 1/10W		R223			R92-0670-05	CHIP R 0 OHM	
R122			RK73FB2A5R6J	CHIP R 5.6 J 1/10W		R301-304			RK73GB1J103J	CHIP R 10K J 1/16W	
R123			RK73GB1J270J	CHIP R 27 J 1/16W		R305			R92-1252-05	CHIP R 0 OHM J 1/16W	
R124			RK73FB2A821J	CHIP R 820 J 1/10W		R306			RK73GB1J560J	CHIP R 56 J 1/16W	
R125-127			RK73GB1J222J	CHIP R 2.2K J 1/16W		R307,308			RK73GB1J100J	CHIP R 10 J 1/16W	
R128			RK73GB1J223J	CHIP R 22K J 1/16W		R309			R92-1252-05	CHIP R 0 OHM J 1/16W	
R129			R92-1252-05	CHIP R 0 OHM J 1/16W		R310,311			RK73GB1J152J	CHIP R 1.5K J 1/16W	
R132			RK73GB1J103J	CHIP R 10K J 1/16W		R312			RK73GB1J682J	CHIP R 6.8K J 1/16W	
R133			RK73GB1J472J	CHIP R 4.7K J 1/16W		R313			RK73GB1J223J	CHIP R 22K J 1/16W	
R134			RK73GB1J330J	CHIP R 33 J 1/16W		R314,315			RK73GB1J221J	CHIP R 220 J 1/16W	
R135			RK73GB1J220J	CHIP R 22 J 1/16W		R316			RK73GB1J222J	CHIP R 2.2K J 1/16W	
						R317			RK73GB1J474J	CHIP R 470K J 1/16W	

K : TK-790/(B)

HK : TK-790H(B)



# TK-790/(B),TK-790H(B)

## PARTS LIST

TX-RX UNIT (X57-5610-XX) (A/3)

TX-RX UNIT (X57-5610-10) (C/3)

Ref. No.	Address	New parts	Parts No.	Description	Destination
R318			RK73FB2A152J	CHIP R 1.5K J 1/10W	
R319			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R320-323			R92-1252-05	CHIP R 0 OHM J 1/16W	
R324			RK73GB1J223J	CHIP R 22K J 1/16W	
R325			RK73GB1J103J	CHIP R 10K J 1/16W	
R326			RK73GB1J330J	CHIP R 33 J 1/16W	
R327			RK73GB1J104J	CHIP R 100K J 1/16W	
R328			RK73GB1J330J	CHIP R 33 J 1/16W	
R329			RK73GB1J471J	CHIP R 470 J 1/16W	
R330			RK73GB1J331J	CHIP R 330 J 1/16W	
R331,332			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R333			RK73GB1J470J	CHIP R 47 J 1/16W	
R334			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R335			RK73GB1J470J	CHIP R 47 J 1/16W	
R336,337			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R338			RK73GB1J473J	CHIP R 47K J 1/16W	
R339			RK73GB1J103J	CHIP R 10K J 1/16W	
R340			RK73GB1J330J	CHIP R 33 J 1/16W	
R341			RK73GB1J331J	CHIP R 330 J 1/16W	
R342			RK73GB1J223J	CHIP R 22K J 1/16W	
R343			RK73GB1J103J	CHIP R 10K J 1/16W	
R344			RK73GB1J223J	CHIP R 22K J 1/16W	
R345			RK73GB1J103J	CHIP R 10K J 1/16W	
R346			RK73GB1J330J	CHIP R 33 J 1/16W	
R347			RK73GB1J471J	CHIP R 470 J 1/16W	
R348			RK73GB1J331J	CHIP R 330 J 1/16W	
R349			RK73GB1J330J	CHIP R 33 J 1/16W	
R350			RK73GB1J101J	CHIP R 100 J 1/16W	
R351,352			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R354,355			RK73GB1J220J	CHIP R 22 J 1/16W	
R357			R92-1252-05	CHIP R 0 OHM J 1/16W	
R358			RK73GB1J331J	CHIP R 330 J 1/16W	
R361			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R366			R92-1252-05	CHIP R 0 OHM J 1/16W	
D101			1SS355	DIODE	
D102			1SV269	VARIABLE CAPACITANCE DIODE	
D103			MA742	DIODE	
D104,105			1SV269	VARIABLE CAPACITANCE DIODE	
D106-109			DAN235K	DIODE	
D201,202			DA204K	DIODE	
D301-304		*	1SV282-F	VARIABLE CAPACITANCE DIODE	
D305			1SV214-F	VARIABLE CAPACITANCE DIODE	
D306			DAN235K	DIODE	
IC101			TA31136FN	MOS-IC	
IC201			BU4094BCF	MOS-IC	
IC202			NJM78L05UA	BI-POLAR IC	
IC203			AN8009M	MOS-IC	
IC301			CD8468	MOS-IC	
Q101,102			2SC3357	TRANSISTOR	
Q104			2SC3357	TRANSISTOR	
Q105			DTA144EUA	DIGITAL TRANSISTOR	
Q106			DTC144EUA	DIGITAL TRANSISTOR	
Q107			2SC4215-F(Y)	TRANSISTOR	
Q108			DTC144EUA	DIGITAL TRANSISTOR	
Q109			2SC4617(S)	TRANSISTOR	
Q201			2SC3357	TRANSISTOR	
Q202			2SB1132(Q,R)	TRANSISTOR	
Q203			DTC114EUA	DIGITAL TRANSISTOR	
Q204			2SC2954	TRANSISTOR	
Q205			DTC114EUA	DIGITAL TRANSISTOR	
Q206			2SB1132(Q,R)	TRANSISTOR	
Q301,302			2SC4116(GR)	TRANSISTOR	
Q303,304			2SC3722K(S)	TRANSISTOR	
Q305,306			2SK508NV(K52)	FET	
Q307,308			2SC4116(Y)	TRANSISTOR	
Q309			DTC114EUA	DIGITAL TRANSISTOR	
Q310,311			2SC4215-F(Y)	TRANSISTOR	
Q312			2SC3120	TRANSISTOR	
TH101			157-503-53006	THERMISTOR	
A101			W02-1939-05	DBM	
<b>TX-RX UNIT (X57-5610-10) (C/3) : TK-790/(B)</b>					
C803			C90-5299-05	ELECTRO 470UF 25WV	K
C805			C90-5299-05	ELECTRO 470UF 25WV	K
C806-808			CK73FB1H102K	CHIP C 1000PF K	K
C809			C93-0558-05	CHIP C 8.0PF D	K
C810,811			CK73FB1H102K	CHIP C 1000PF K	K
C812			C90-5299-05	ELECTRO 470UF 25WV	K
C813,814			CK73FB1H102K	CHIP C 1000PF K	K
C815			CM73F2H180J	CHIP C 18PF J	K
C816			CC73GCH1H471J	CHIP C 470PF J	K
C817			CK73FB1H102K	CHIP C 1000PF K	K
C818			CK73GB1H102K	CHIP C 1000PF K	K
C819			C93-0562-05	CHIP C 15PF J	K
C820			CK73GB1H102K	CHIP C 1000PF K	K
C821			CK73FB1H102K	CHIP C 1000PF K	K
C822			CK73GB1E473J	CHIP C 0.047UF J	K
C824			CM73F2H470J	CHIP C 47PF J	K
C825			C93-0562-05	CHIP C 15PF J	K
C826			CC73FCH1H220J	CHIP C 22PF J	K
C827			CK73GB1H102K	CHIP C 1000PF K	K
C829,830			C93-0563-05	CHIP C 18PF J	K
C831			C93-0564-05	CHIP C 22PF J	K
C832			CC73GCH1H821J	CHIP C 820PF J	K
C833			CK73FB1H102K	CHIP C 1000PF K	K
C834			CC73FCH1H390J	CHIP C 39PF J	K
C835			CK73FB1H102K	CHIP C 1000PF K	K
C839			CK73GB1H102K	CHIP C 1000PF K	K
C843			CK73GB1H102K	CHIP C 1000PF K	K
C845			C93-0565-05	CHIP C 27PF J	K
C847			C93-0564-05	CHIP C 22PF J	K
C848			C90-4016-05	ELECTRO 47UF 16WV	K
CN801			E04-0154-05	PIN SOCKET	K
CN802			E23-0902-05	TERMINAL	K
CN803			E04-0154-05	PIN SOCKET	K
CN804			E23-1118-05	TERMINAL	K
W801			E37-0705-05	LEAD WIRE WITH CONNECTOR	K
W802			E37-0704-05	LEAD WIRE WITH CONNECTOR	K
L801			L34-4520-05	AIR-CORE COIL	K
L802			L34-4523-05	AIR-CORE COIL	K
L803-805			L34-4520-05	AIR-CORE COIL	K
L806			L34-4523-05	AIR-CORE COIL	K
L807			L34-4520-05	AIR-CORE COIL	K
R801			RK73FB2A271J	CHIP R 270 J 1/10W	K
R802,803			RK73FB2A330J	CHIP R 33 J 1/10W	K
R804			RK73FB2A271J	CHIP R 270 J 1/10W	K

## PARTS LIST

TX-RX UNIT (X57-5610-10) (C/3)

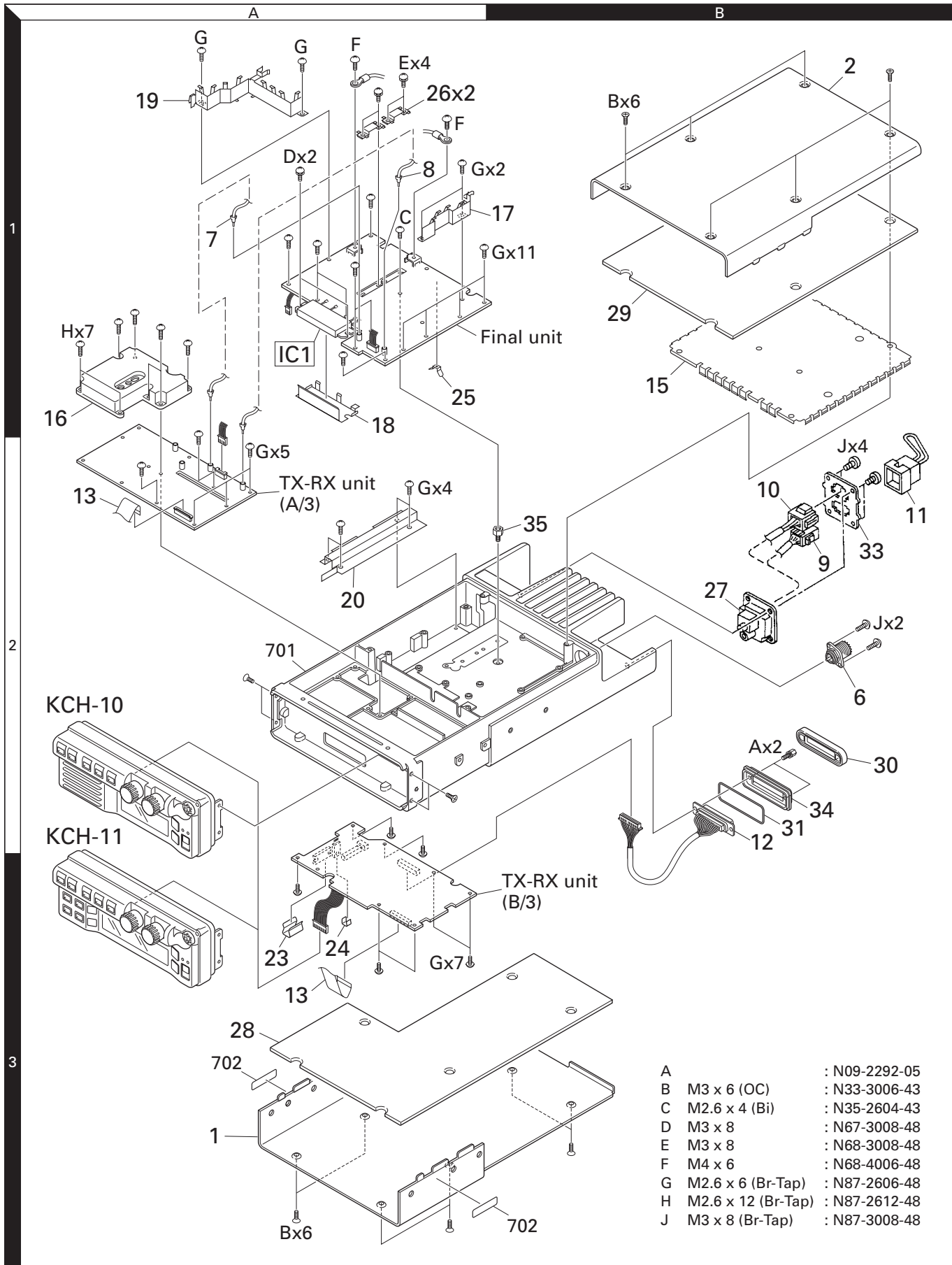
Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R805			R92-0670-05	CHIP R 0 OHM	K						
R806			RK73GB1J103J	CHIP R 10K J 1/16W	K						
R807			R92-1288-05	CHIP R 56 J 1W	K						
R808			RK73GB1J102J	CHIP R 1.0K J 1/16W	K						
R809			RK73GB1J101J	CHIP R 100 J 1/16W	K						
R810			RK73GB1J104J	CHIP R 100K J 1/16W	K						
R811			RK73GB1J334J	CHIP R 330K J 1/16W	K						
R812			RK73GB1J273J	CHIP R 27K J 1/16W	K						
R813			RK73GB1J682J	CHIP R 6.8K J 1/16W	K						
R814			RK73GB1J334J	CHIP R 330K J 1/16W	K						
R815,816			RK73GB1J104J	CHIP R 100K J 1/16W	K						
R817			R92-0670-05	CHIP R 0 OHM	K						
R818			RK73FB2A820J	CHIP R 82 J 1/10W	K						
R819			RK73FB2A471J	CHIP R 470 J 1/10W	K						
R821			R92-1252-05	CHIP R 0 OHM J 1/16W	K						
R822			RK73FB2A473J	CHIP R 47K J 1/10W	K						
R823			RK73FB2A102J	CHIP R 1.0K J 1/10W	K						
R824			RK73FB2A820J	CHIP R 82 J 1/10W	K						
R825			RK73FB2A122J	CHIP R 1.2K J 1/10W	K						
R826			R92-1252-05	CHIP R 0 OHM J 1/16W	K						
R827			RK73GB1J104J	CHIP R 100K J 1/16W	K						
VR801			R12-6429-05	TRIMMING POT. (100K)	K						
D801			22ZR-10D	SURGE ABSORBER	K						
D802			DSA3A1-FK	DIODE	K						
D803,804			MA4PH633	DIODE	K						
D805			02DZ6.2(Y)	ZENER DIODE	K						
D806,807			MA4PH633	DIODE	K						
D808,809			HSM88AS	DIODE	K						
D810			1SS388	DIODE	K						
IC801			TA75W01FU	MOS-IC	K						
IC802		*	RA60H13171123	MOS-IC	K						

K : TK-790/(B)  
 HK : TK-790H(B)

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

# TK-790/(B), TK-790H(B)

## EXPLODED VIEW (TK-790H(B))



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

## ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
8. RF power • Max power TK-790/(B) K	1) CH-SIG : 1-1 Select _POW_XXX in tune mode PTT : ON	Power meter Ammeter	Rear	ANT	TX-RX (C/3)	VR801	50W	±1W
					FINAL	VR1	118W	±2W
• High power TK-790/(B) K	1) CH-SIG : 1-1 Select _POW_XXX in tune mode Attach the *shield cover to the chassis. PTT : ON				Panel	PF3 key PF4 key	45W	±1W 12A or less
							110W	±5W 25A or less
• Low power TK-790/(B) K	1) CH-SIG : 1-1 Select LPOW_XXX in tune mode Attach the *shield cover to the chassis. PTT : ON						5W	±1W
							45W	±1W

\*Shield cover

F10-1479-03: TK-790/(B)

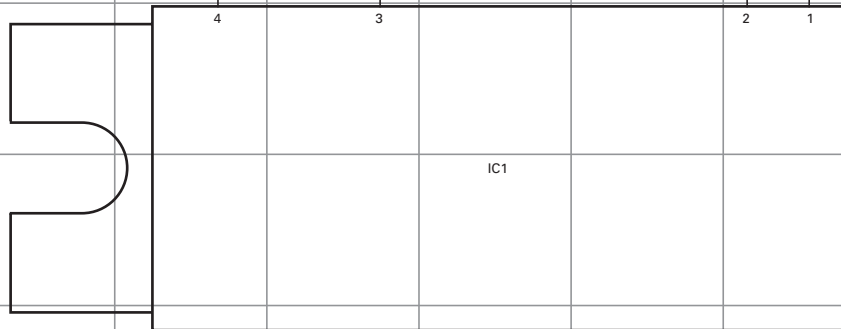
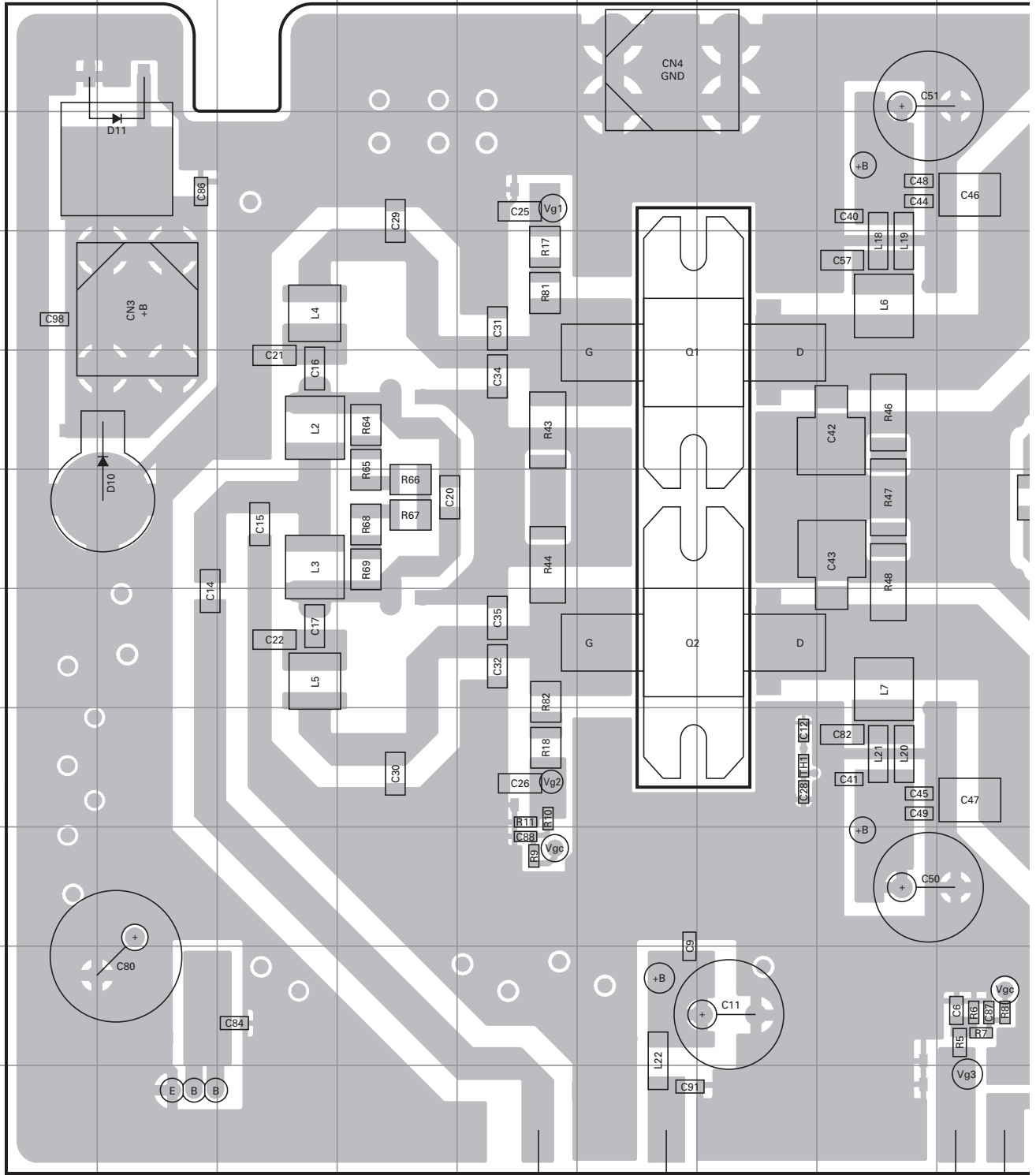
:

F10-1488-02: TK-790H(B)

:

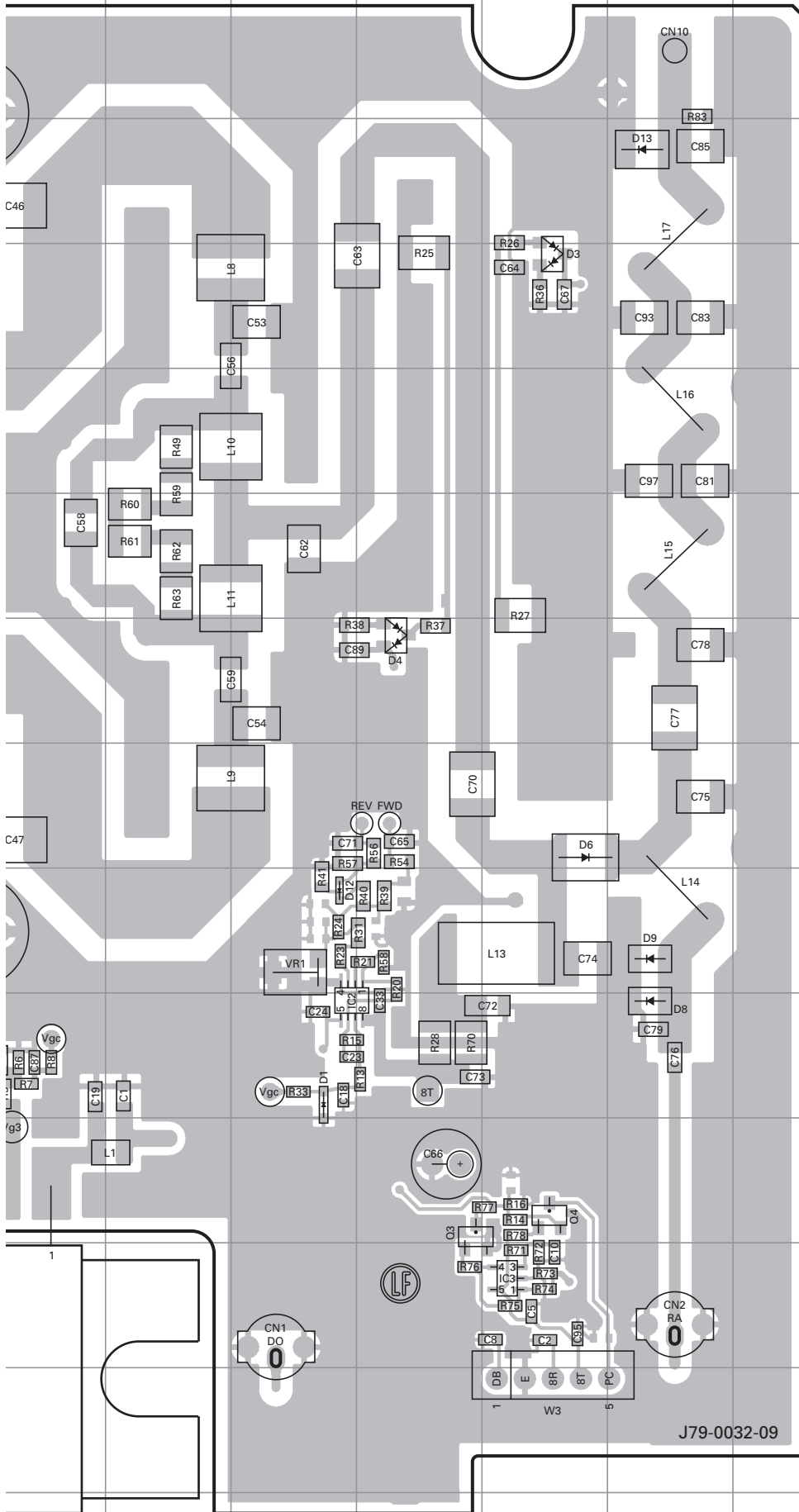
# TK-790H(B) PC BOARD

FINAL UNIT (X45-3560-10) Component side view (J79-0032-09)

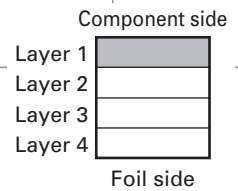


# PC BOARD TK-790H(B)

## FINAL UNIT (X45-3560-10) Component side view (J79-0032-09)



Ref. No.	Address
IC1	13H
IC2	10L
IC3	12N
Q1	5G
Q2	7G
Q3	11M
Q4	11N
D1	10L
D3	4N
D4	7M
D6	8N
D8	10O
D9	9O
D10	6C
D11	3C
D12	9L
D13	3O

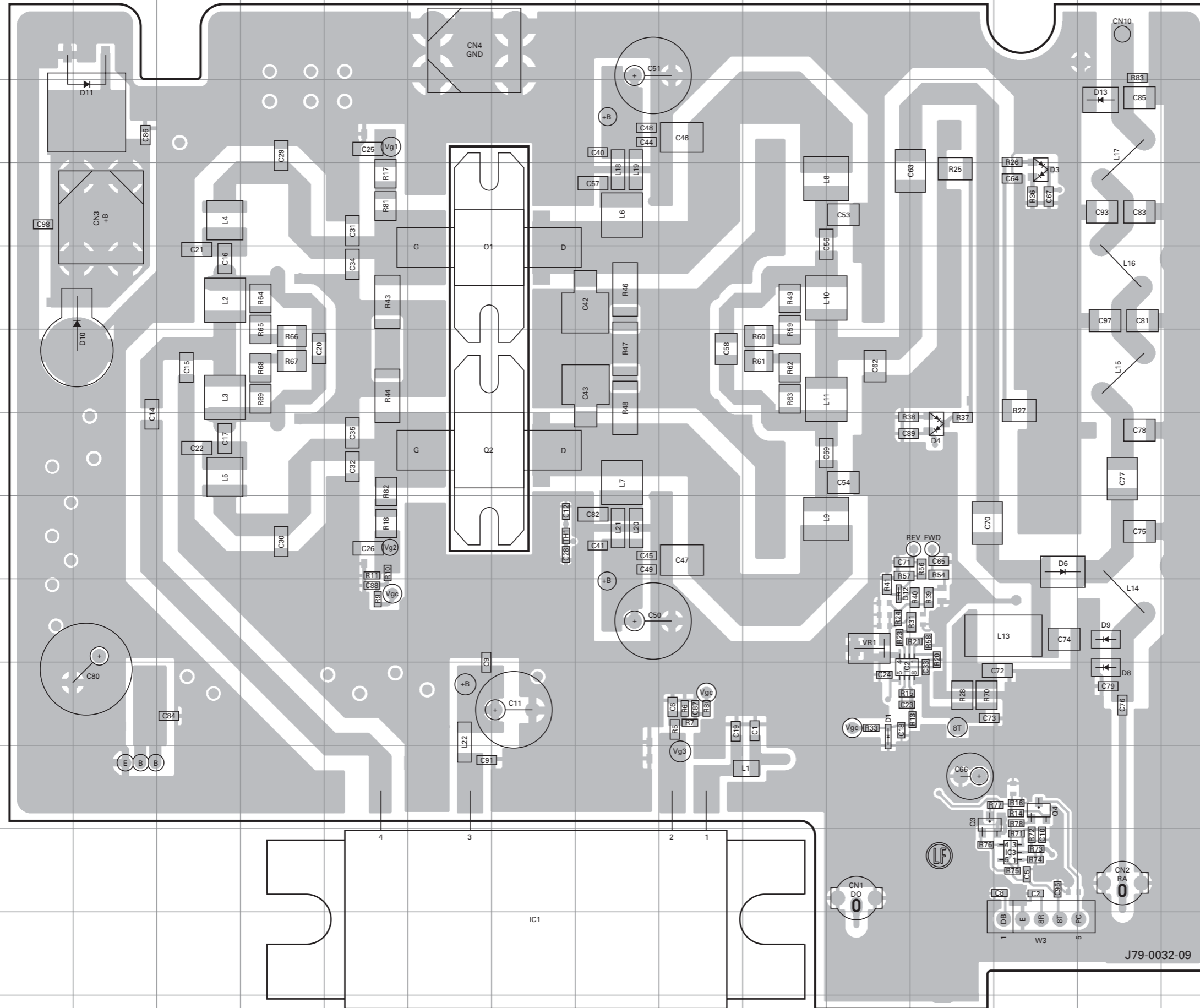


# TK-790H(B) PC BOARD

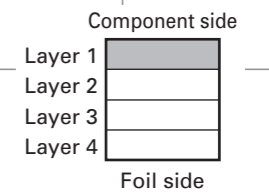
# PC BOARD TK-790H(B)

FINAL UNIT (X45-3560-10) Component side view (J79-0032-09)

FINAL UNIT (X45-3560-10) Component side view (J79-0032-09)



Ref. No.	Address
IC1	13H
IC2	10L
IC3	12N
Q1	5G
Q2	7G
Q3	11M
Q4	11N
D1	10L
D3	4N
D4	7M
D6	8N
D8	10O
D9	9O
D10	6C
D11	3C
D12	9L
D13	3O



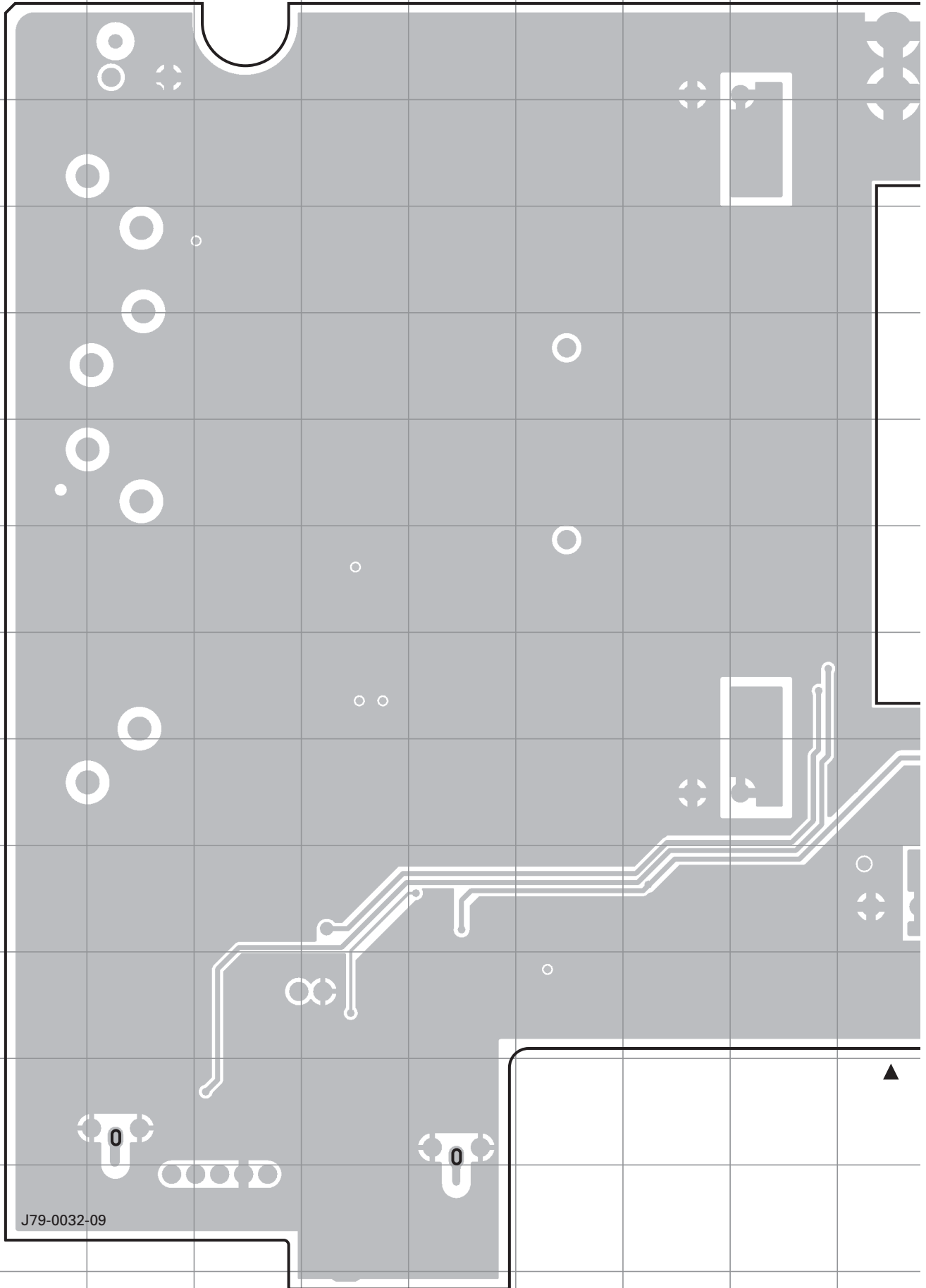
J79-0032-09



A B C D E F G H I J

# TK-790H(B) PC BOARD

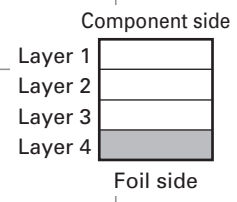
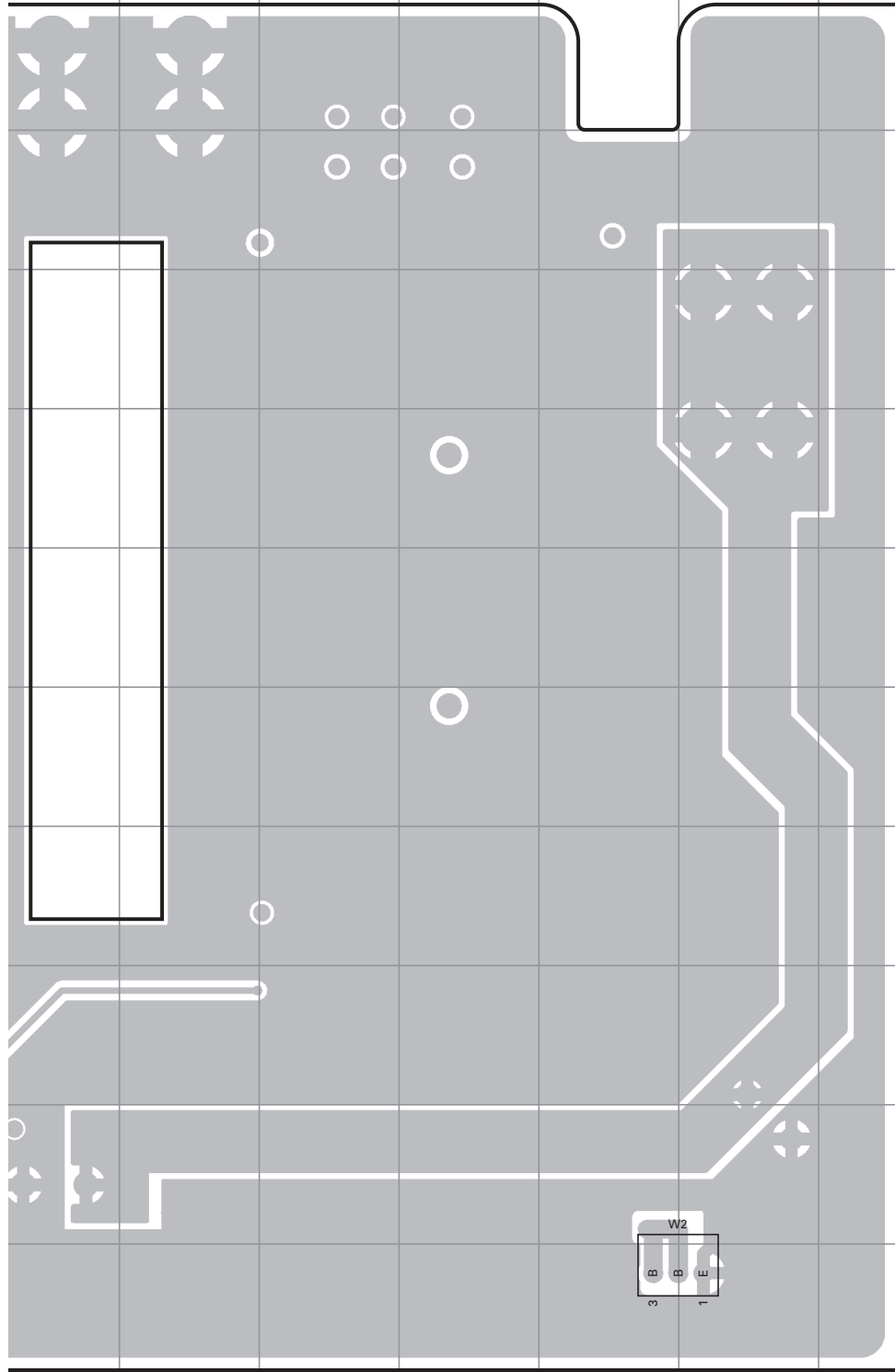
FINAL UNIT (X45-3560-10) Foil side view (J79-0032-09)



J79-0032-09

# PC BOARD TK-790H(B)

FINAL UNIT (X45-3560-10) Foil side view (J79-0032-09)

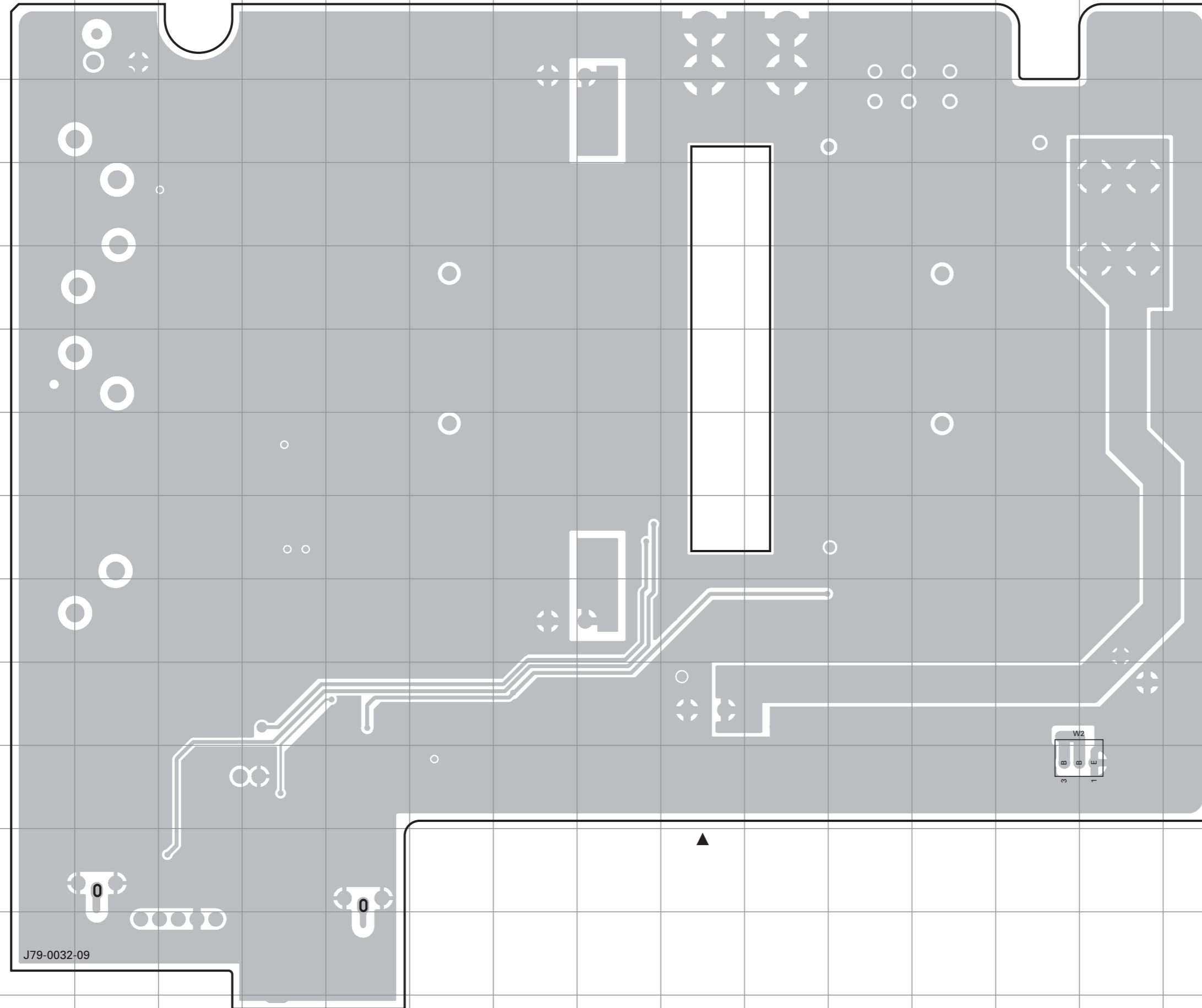


# TK-790H(B) PC BOARD

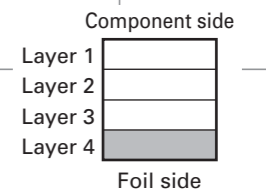
# PC BOARD TK-790H(B)

FINAL UNIT (X45-3560-10) Foil side view (J79-0032-09)

FINAL UNIT (X45-3560-10) Foil side view (J79-0032-09)



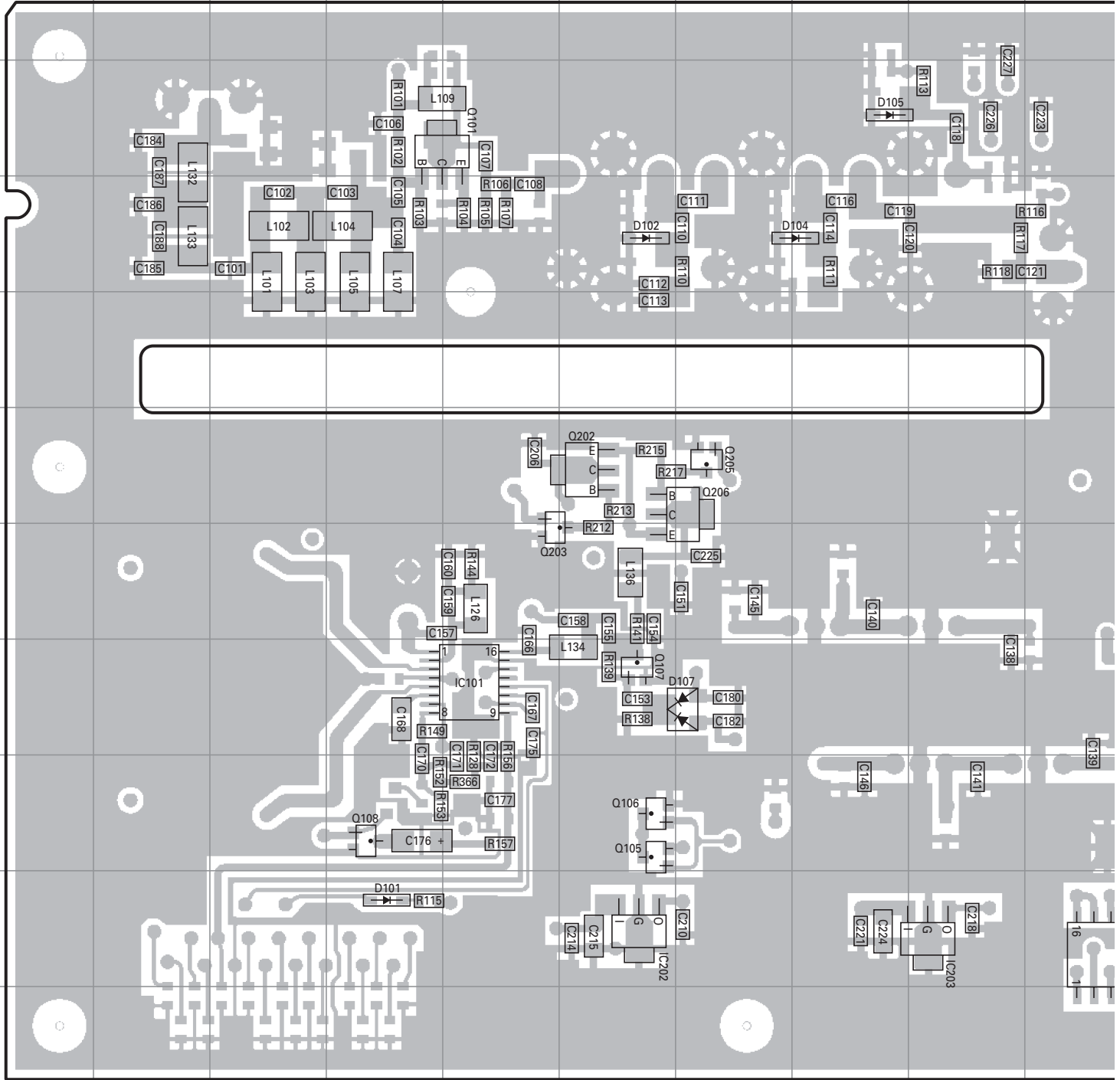
J79-0032-09



# TK-790/(B),TK-790H(B) PC BOARD

TX-RX UNIT (X57-5610-10) (A/3) Foil side view (J72-0990-09 A/3) : TK-790/(B)

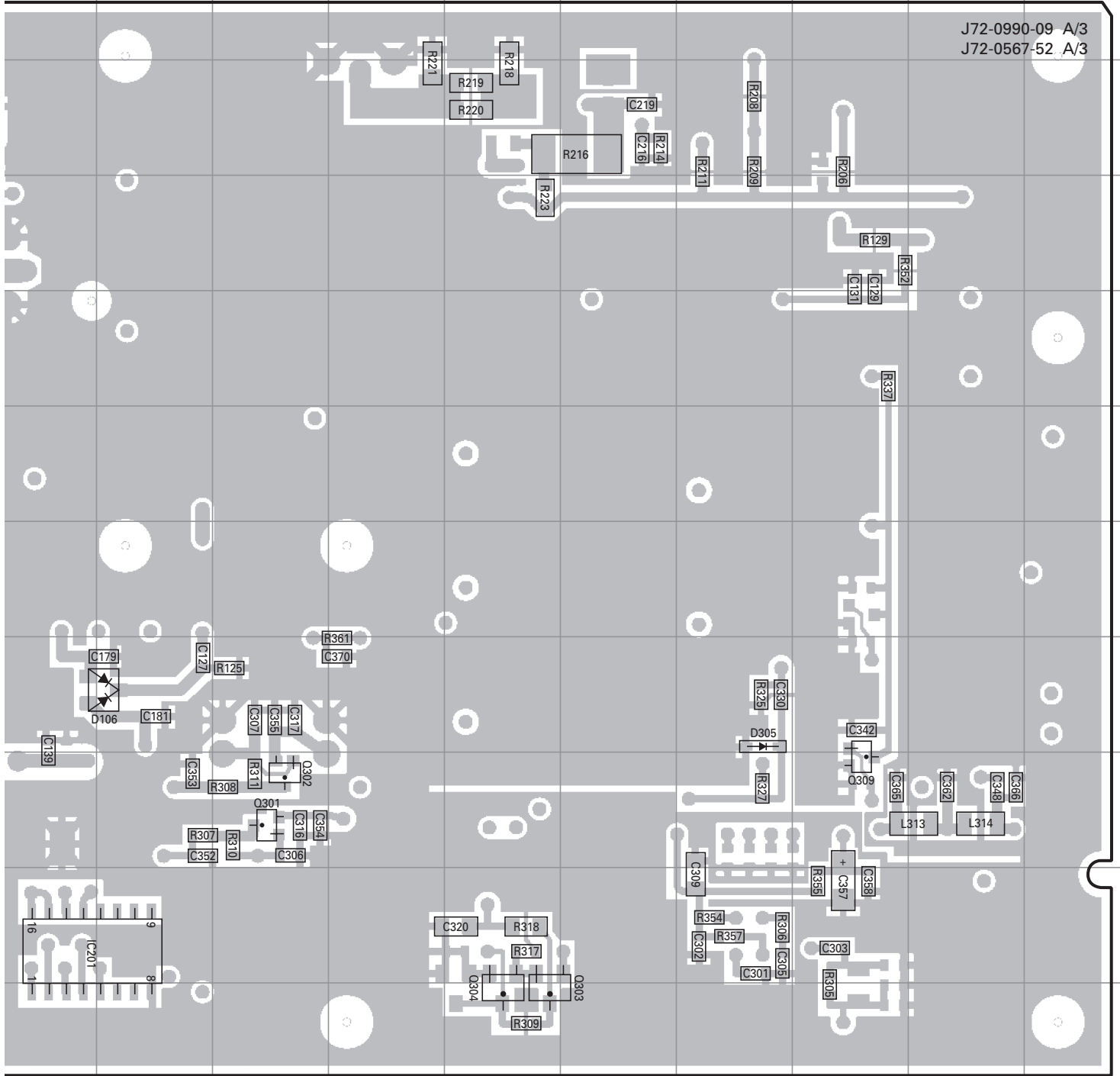
TX-RX UNIT (X57-5610-12) (A/3) Foil side view (J72-0567-52 A/3) : TK-790H(B)



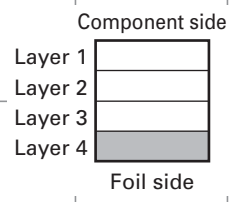
Ref No.	Address	Ref No.	Address	Ref No.	Address	Ref No.	Address
IC101	8E	Q107	8F	Q302	9L	D105	3H
IC201	10J	Q108	9D	Q303	11N	D106	8K
IC202	10F	Q202	6F	Q304	11N	D107	8G
IC203	10I	Q203	7E	Q309	9Q	D305	8P
Q101	3E	Q205	6G	D101	10D		
Q105	9F	Q206	6G	D102	4F		
Q106	9F	Q301	9L	D104	4H		

# PC BOARD TK-790/(B),TK-790H(B)

TX-RX UNIT (X57-5610-10) (A/3) Foil side view (J72-0990-09 A/3) : TK-790/(B)  
 TX-RX UNIT (X57-5610-12) (A/3) Foil side view (J72-0567-52 A/3) : TK-790H(B)



J72-0990-09 A/3  
 J72-0567-52 A/3

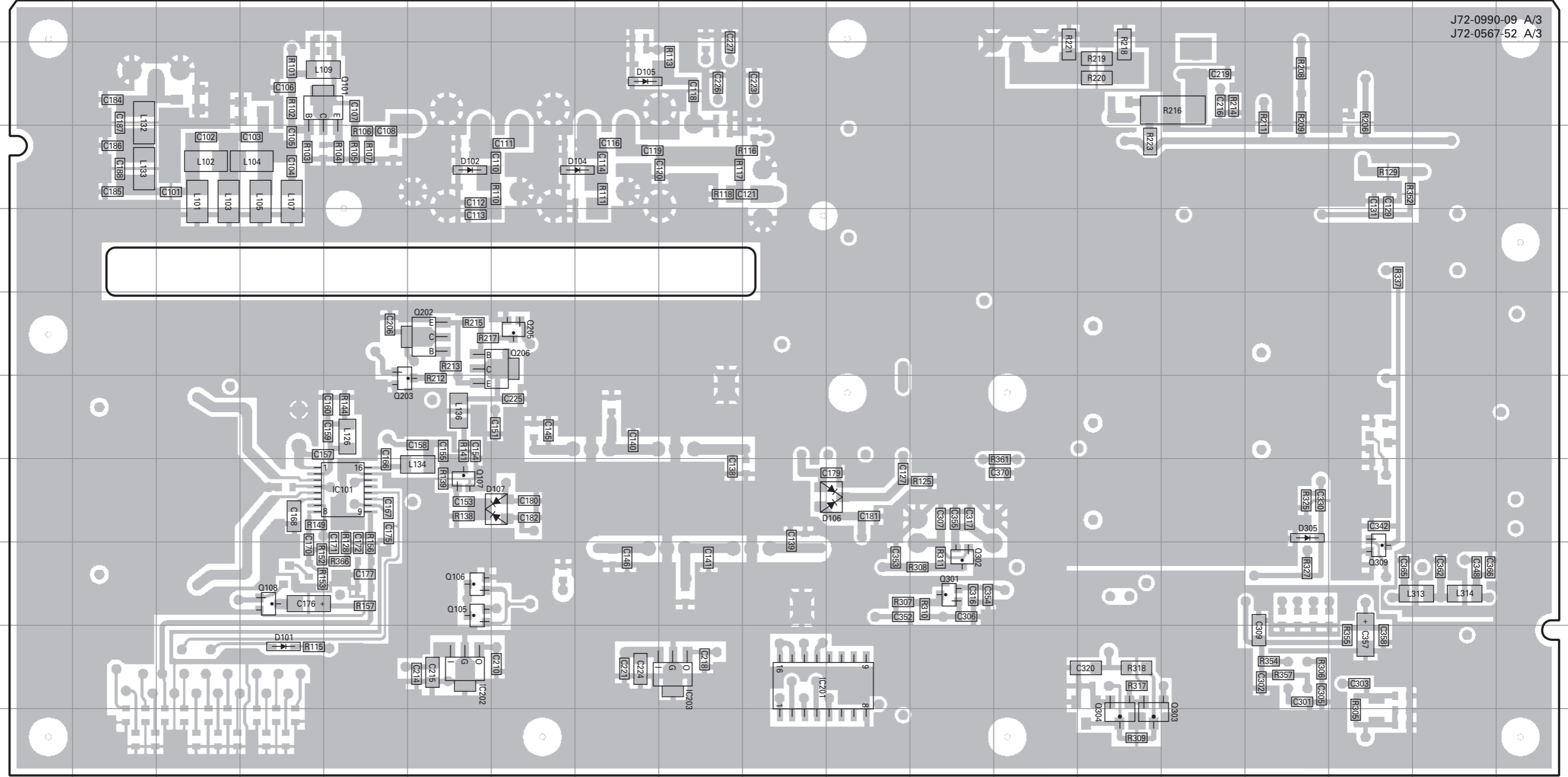


# TK-790/(B),TK-790H(B) PC BOARD

# PC BOARD TK-790/(B),TK-790H(B)

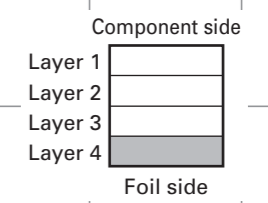
TX-RX UNIT (X57-5610-10) (A/3) Foil side view (J72-0990-09 A/3) : TK-790/(B)  
 TX-RX UNIT (X57-5610-12) (A/3) Foil side view (J72-0567-52 A/3) : TK-790H(B)

TX-RX UNIT (X57-5610-10) (A/3) Foil side view (J72-0990-09 A/3) : TK-790/(B)  
 TX-RX UNIT (X57-5610-12) (A/3) Foil side view (J72-0567-52 A/3) : TK-790H(B)



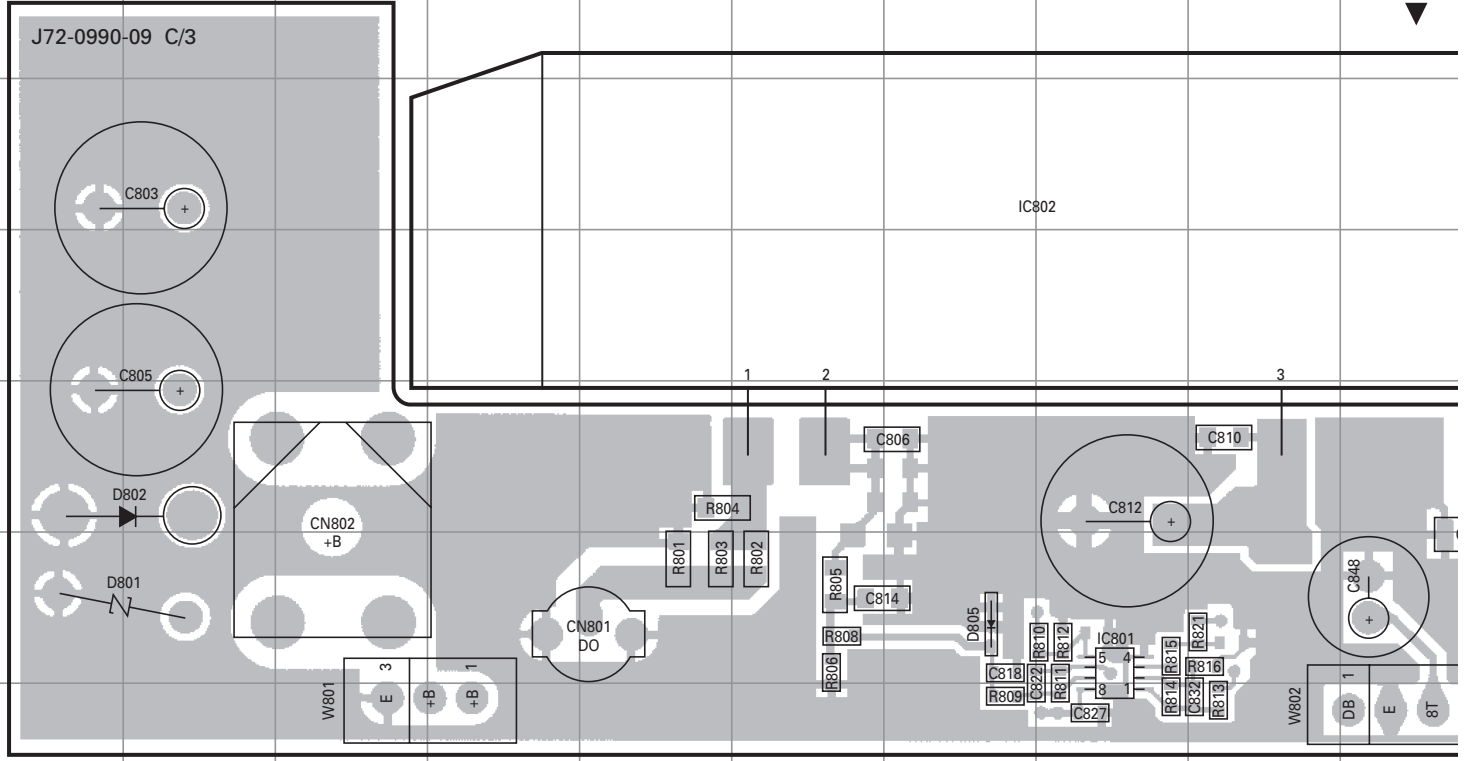
J72-0990-09 A/3  
 J72-0567-52 A/3

Ref No.	Address	Ref No.	Address	Ref No.	Address	Ref No.	Address
IC101	8E	Q107	8F	Q302	9L	D105	3H
IC201	10J	Q108	9D	Q303	11N	D106	8K
IC202	10F	Q202	6F	Q304	11N	D107	8G
IC203	10I	Q203	7E	Q309	9Q	D305	8P
Q101	3E	Q205	6G	D101	10D		
Q105	9F	Q206	6G	D102	4F		
Q106	9F	Q301	9L	D104	4H		

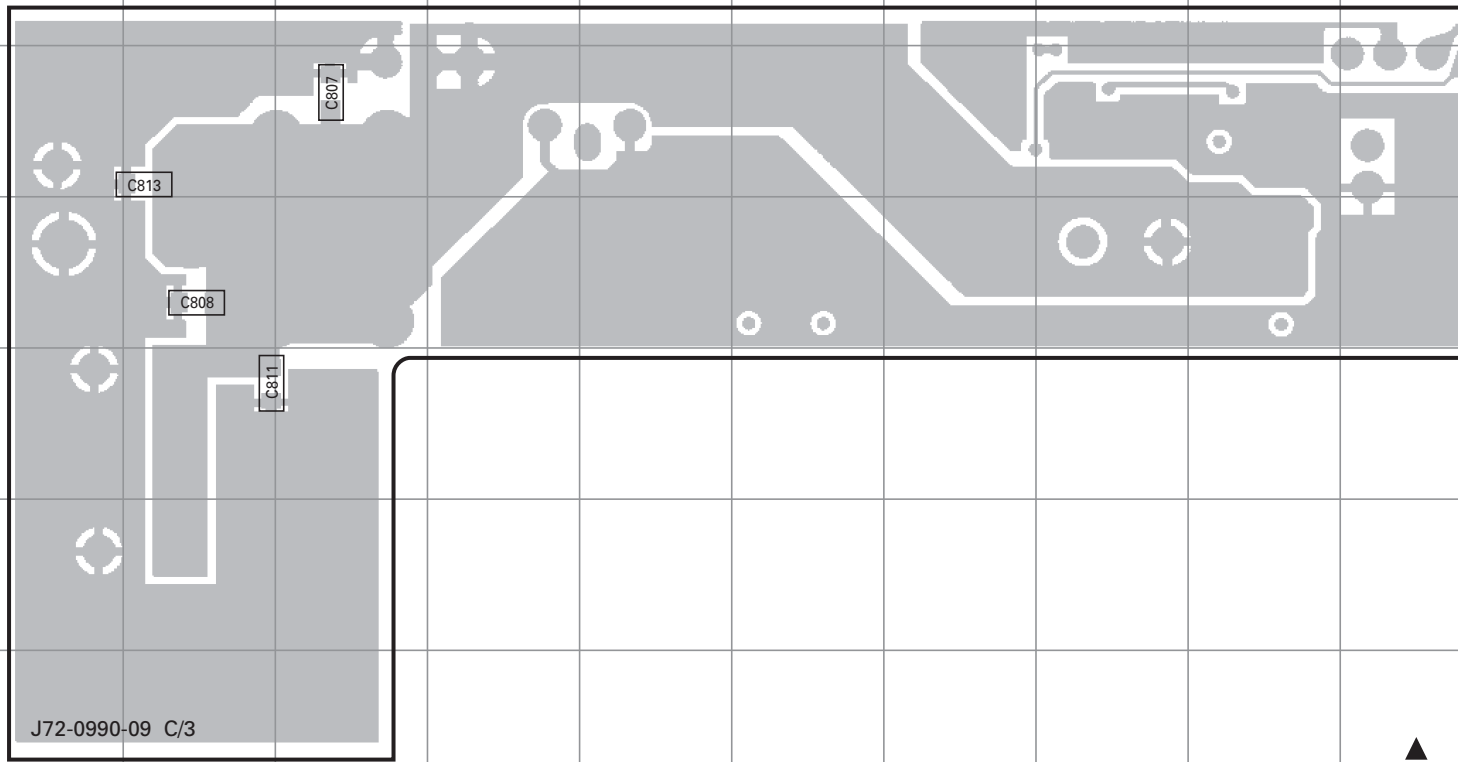


# TK-790/(B) PC BOARD

**TX-RX UNIT (X57-5610-10) (C/3)**  
**Component side view (J72-0990-09 C/3)**



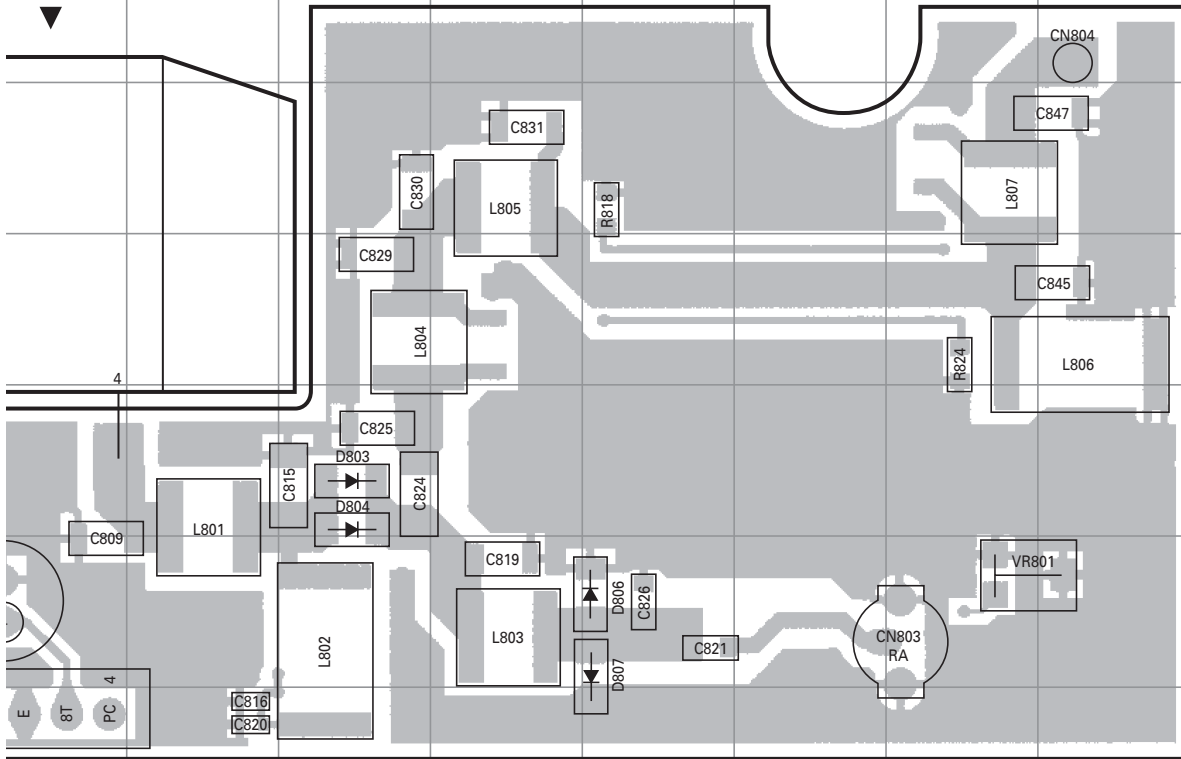
**TX-RX UNIT (X57-5610-10) (C/3)**  
**Foil side view (J72-0990-09 C/3)**



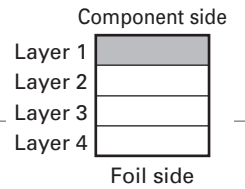


# PC BOARD TK-790/(B)

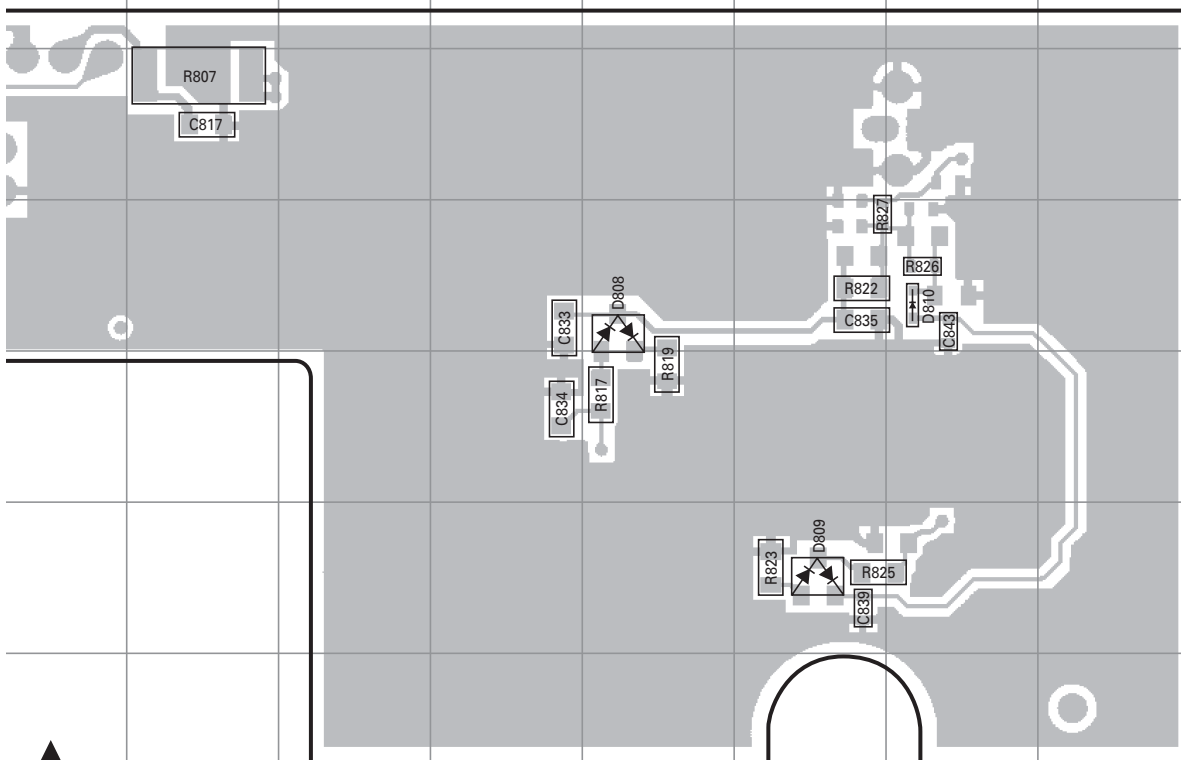
**TX-RX UNIT (X57-5610-10) (C/3)**  
**Component side view (J72-0990-09 C/3)**



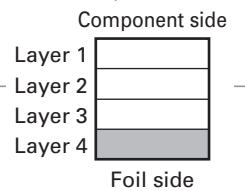
Ref No.	Address
IC801	6H
IC802	3G
D801	6A
D802	5B
D803	5L
D804	5L
D805	6G
D806	6N
D807	6N



**TX-RX UNIT (X57-5610-10) (C/3)**  
**Foil side view (J72-0990-09 C/3)**



Ref No.	Address
D808	10N
D809	12O
D810	10P

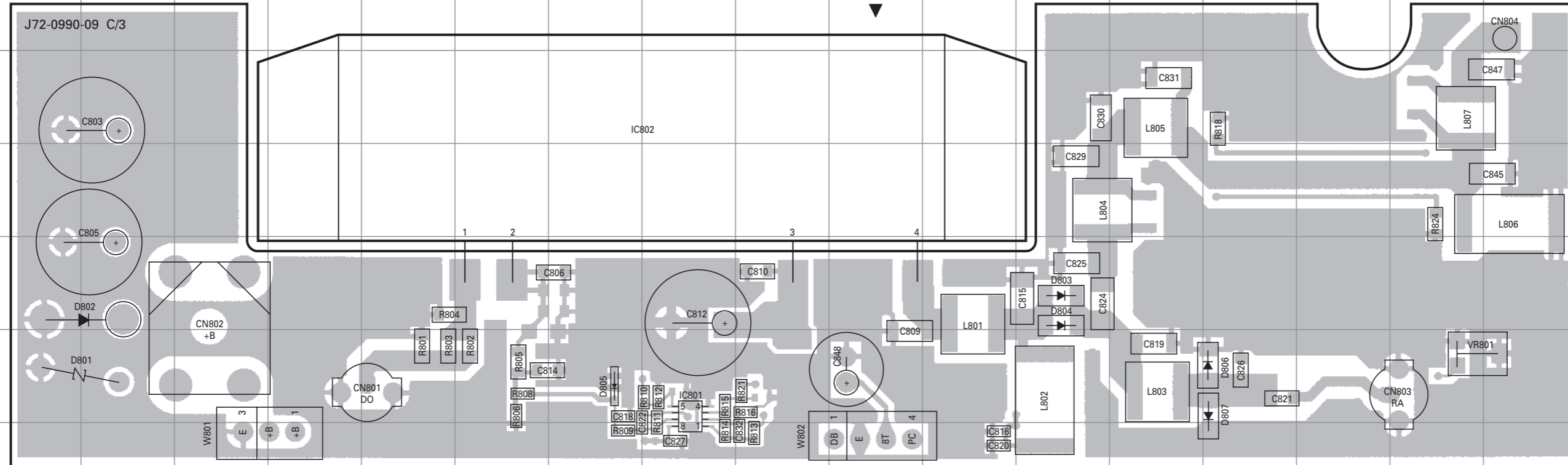


# TK-790/(B) PC BOARD

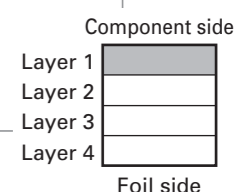
# PC BOARD TK-790/(B)

**TX-RX UNIT (X57-5610-10) (C/3)**  
**Component side view (J72-0990-09 C/3)**

**TX-RX UNIT (X57-5610-10) (C/3)**  
**Component side view (J72-0990-09 C/3)**

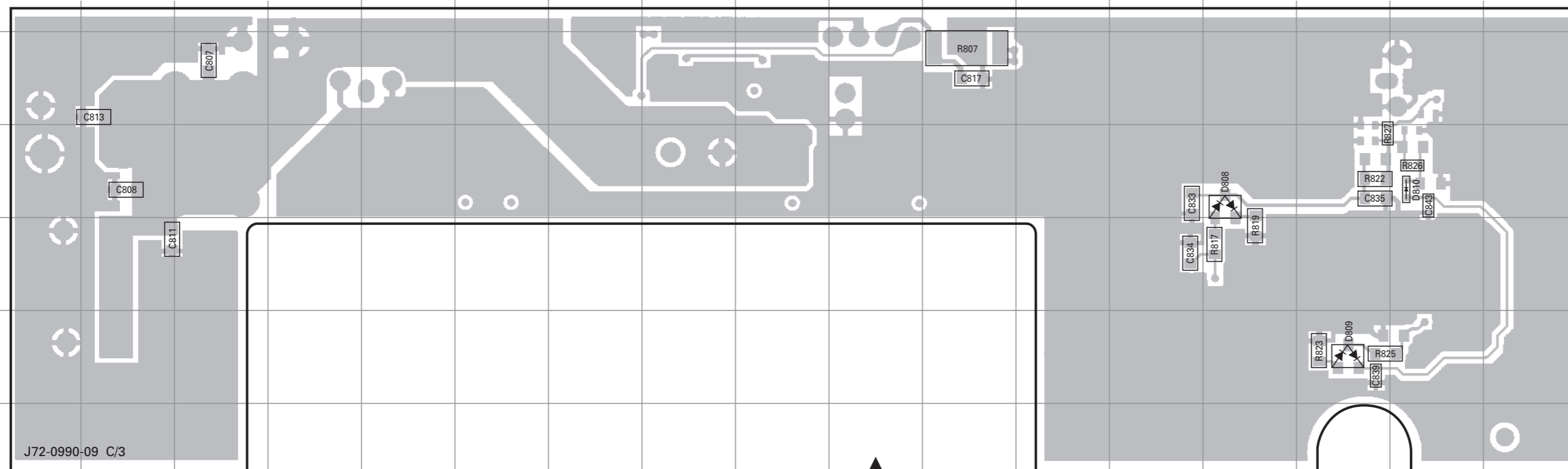


Ref No.	Address
IC801	6H
IC802	3G
D801	6A
D802	5B
D803	5L
D804	5L
D805	6G
D806	6N
D807	6N

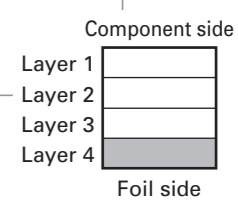


**TX-RX UNIT (X57-5610-10) (C/3)**  
**Foil side view (J72-0990-09 C/3)**

**TX-RX UNIT (X57-5610-10) (C/3)**  
**Foil side view (J72-0990-09 C/3)**

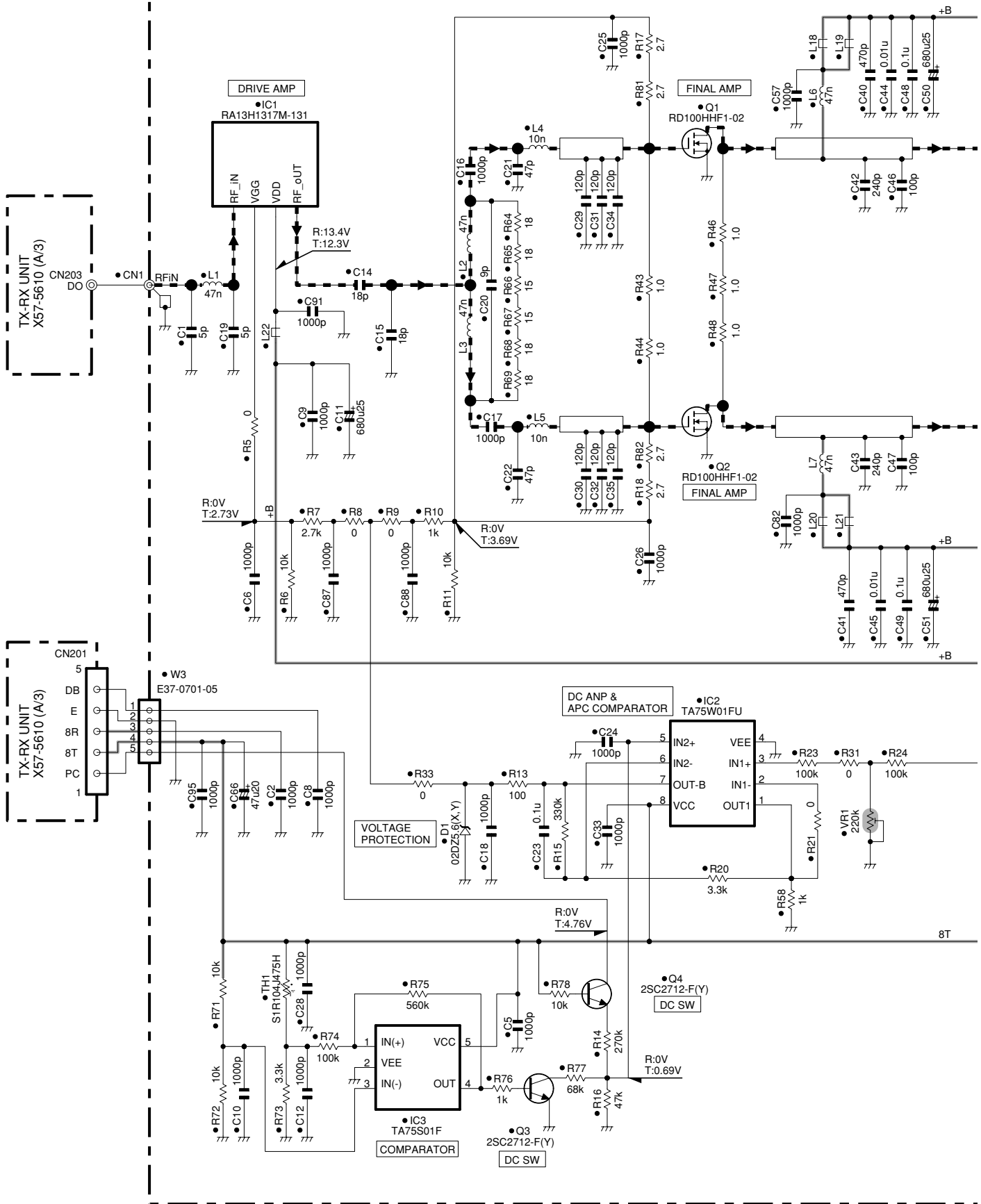


Ref No.	Address
D808	10N
D809	12O
D810	10P



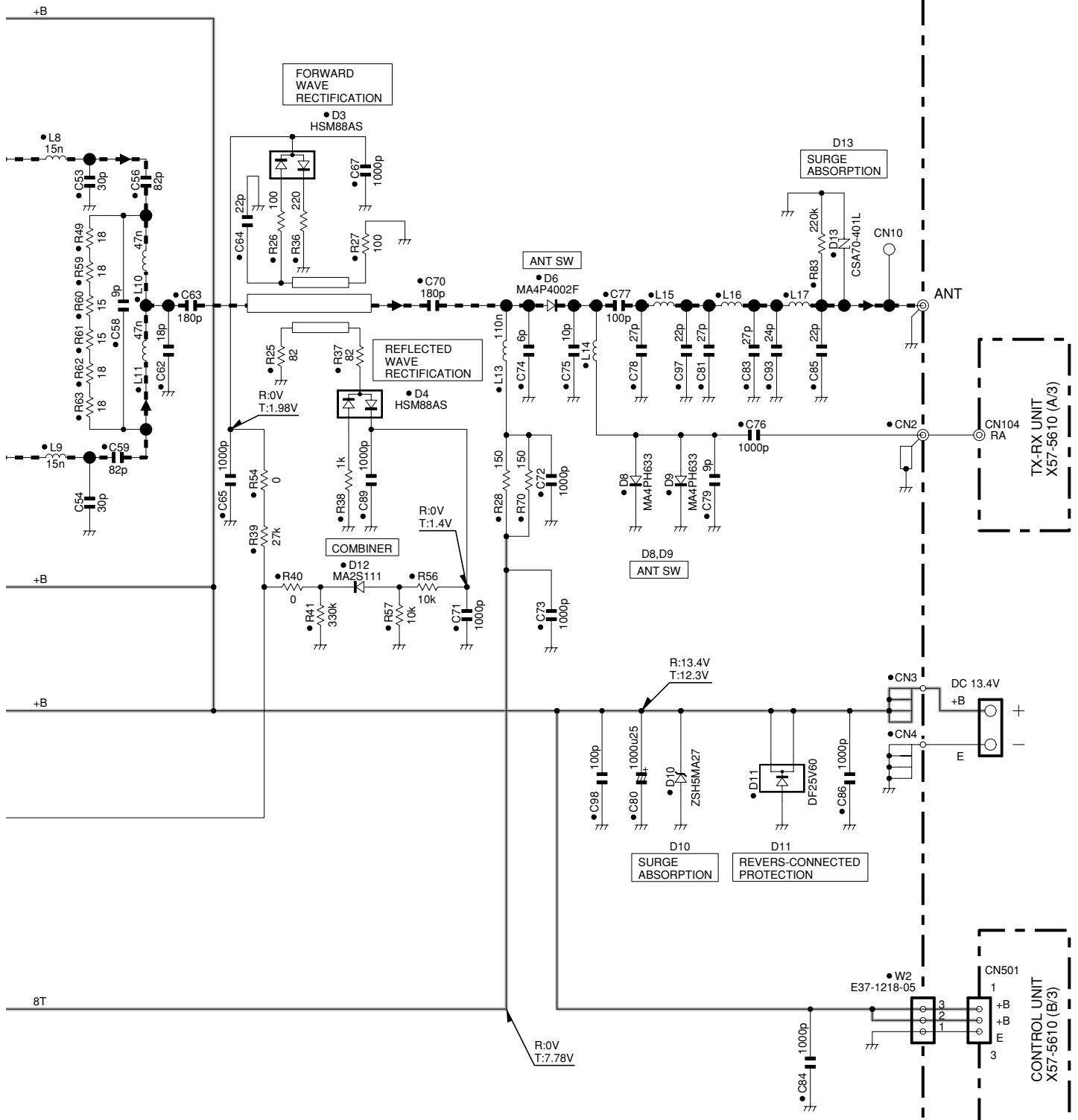
# TK-790H(B) SCHEMATIC DIAGRAM

FINAL UNIT (X45-3560-10) :TK-790H(B)



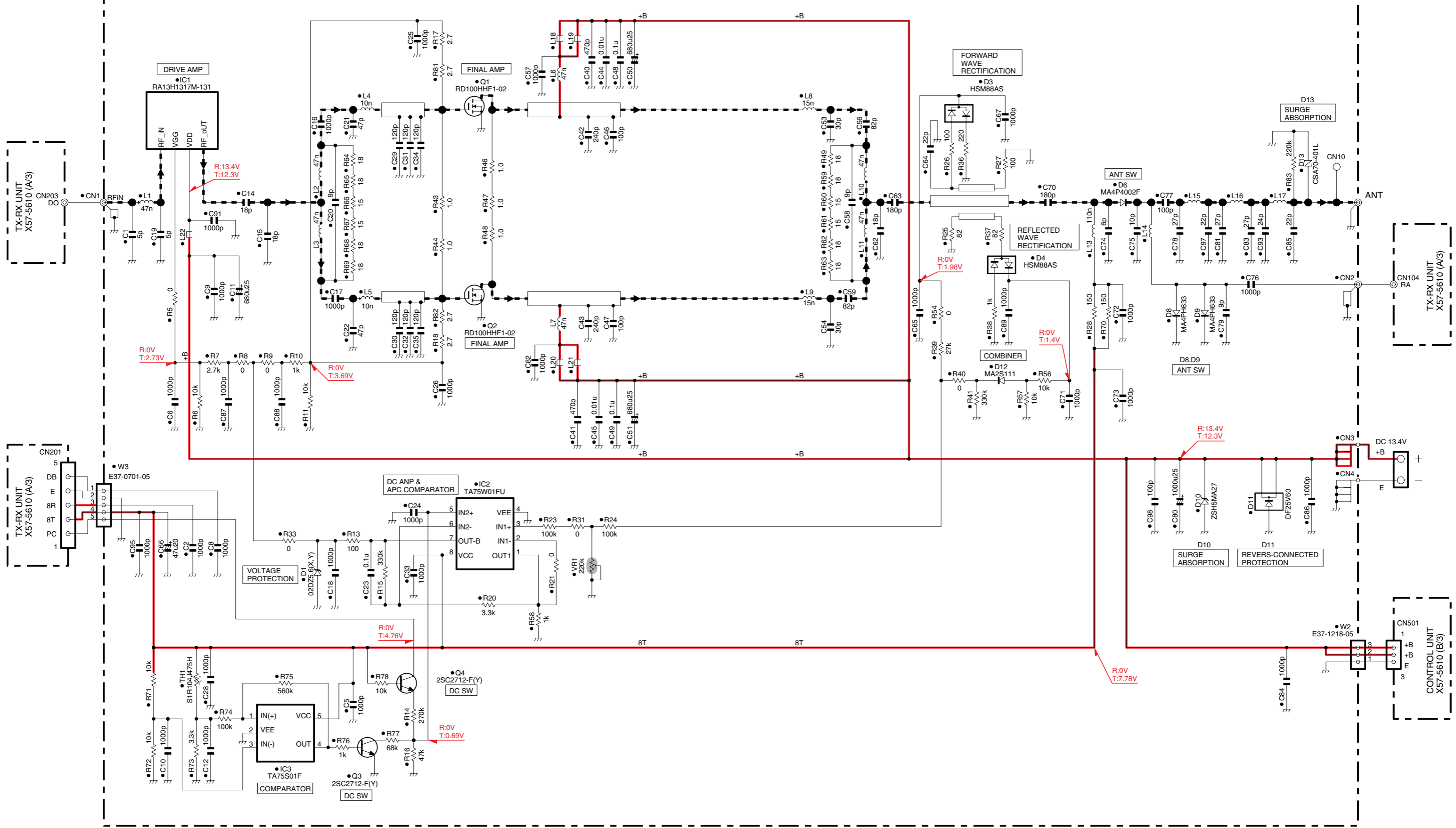
# SCHEMATIC DIAGRAM TK-790H(B)

FINAL UNIT (X45-3560-10) : TK-790H(B)



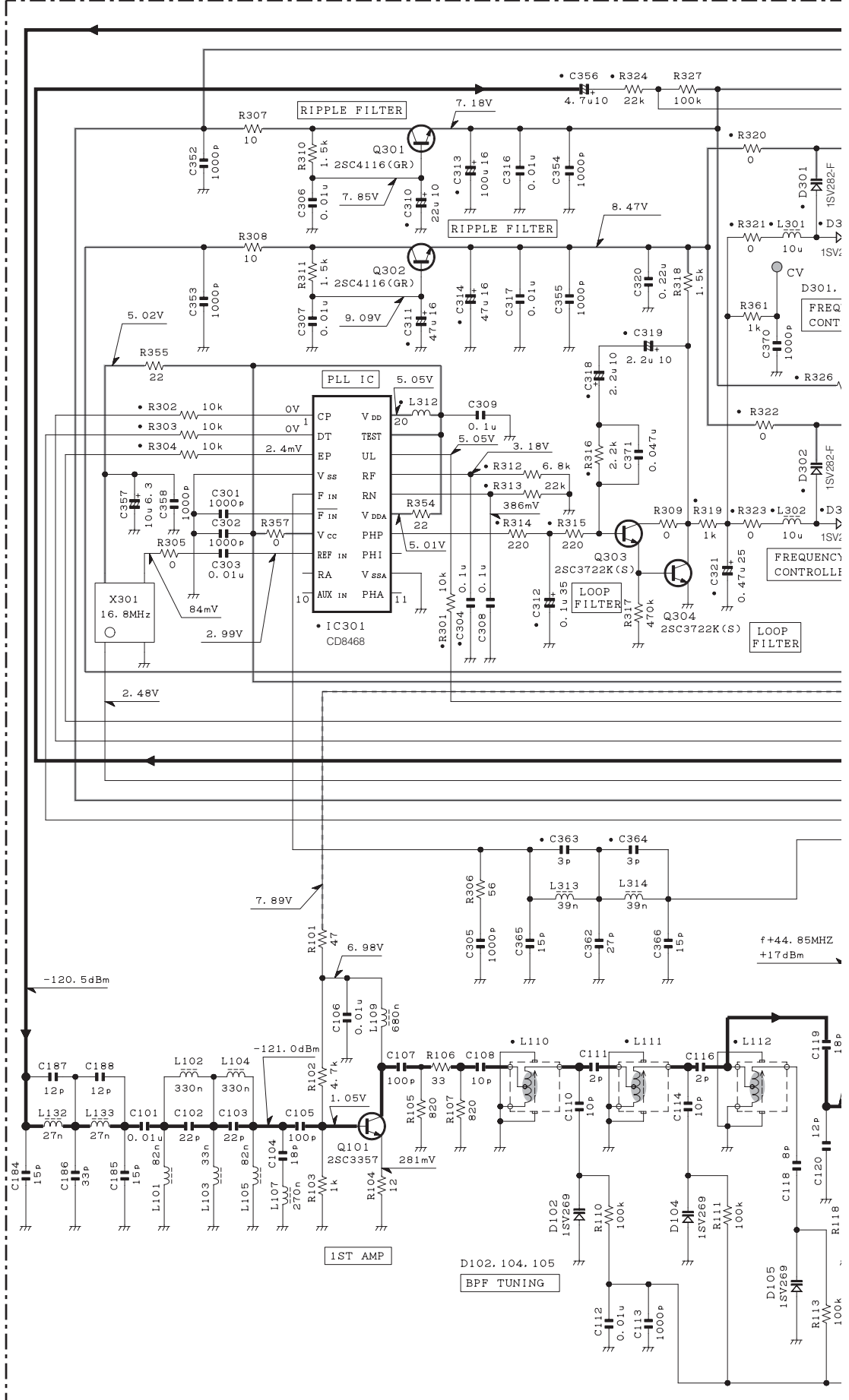
Note : The components marked with a dot (•) are parts of layer 1.

FINAL UNIT (X45-3560-10) :TK-790H(B)

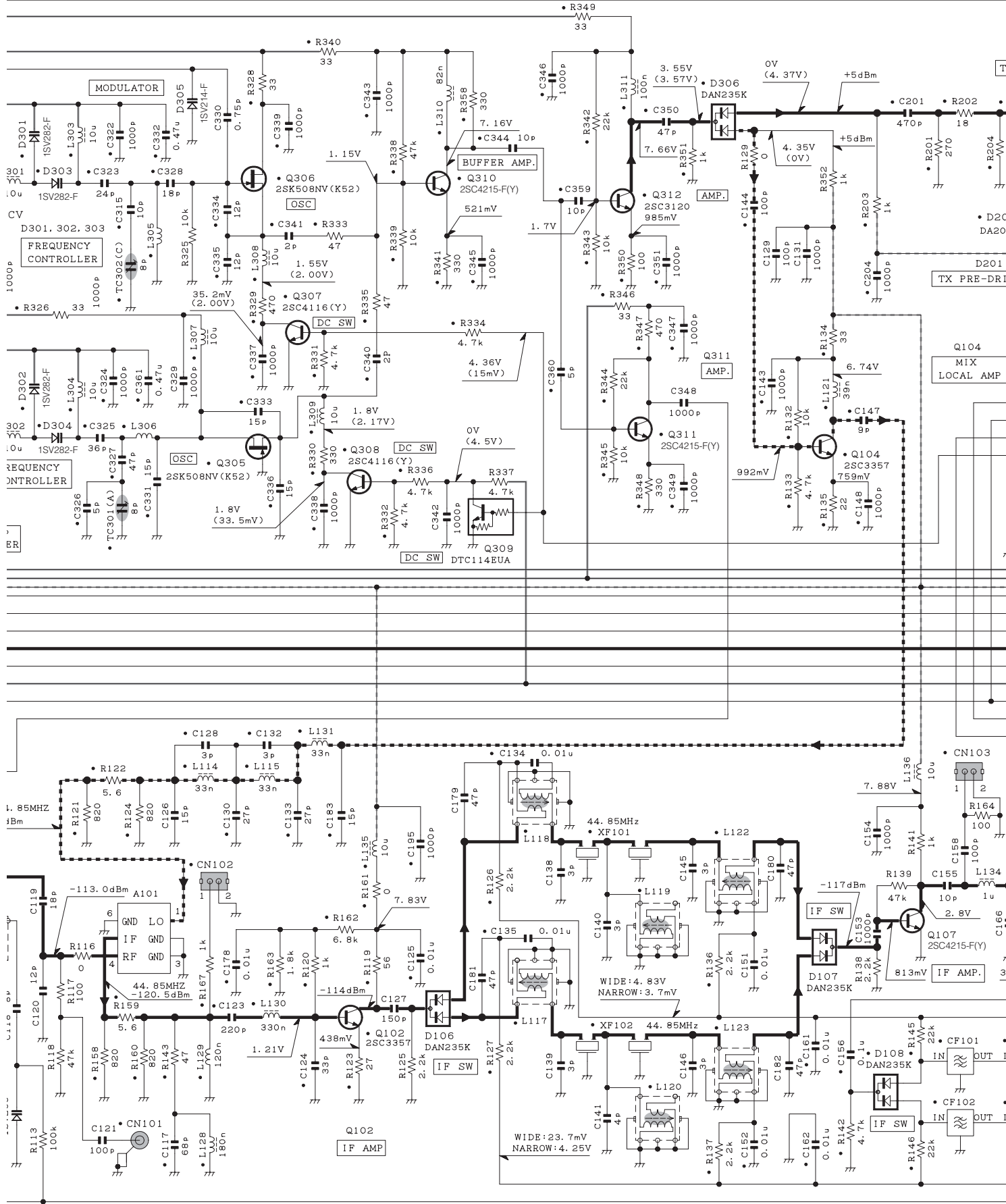


# TK-790/(B), TK-790H(B) SCHEMATIC DIAGRAM

TX-RX UNIT (X57-5610-XX) (A/3) -10 : TK-790/(B) K -12 : TK-790H(B) K

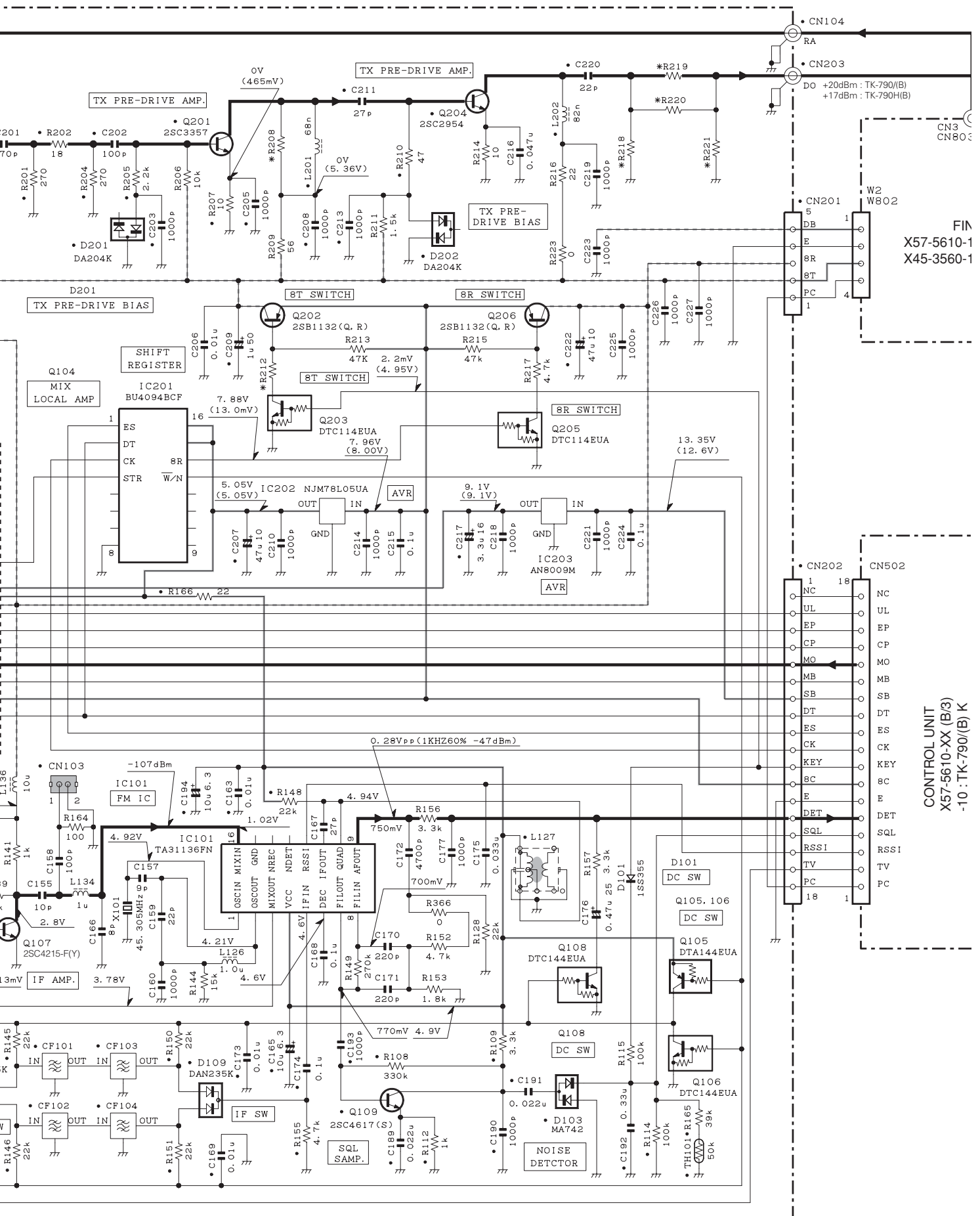


# SCHEMATIC DIAGRAM TK-790/(B),TK-790H(B)

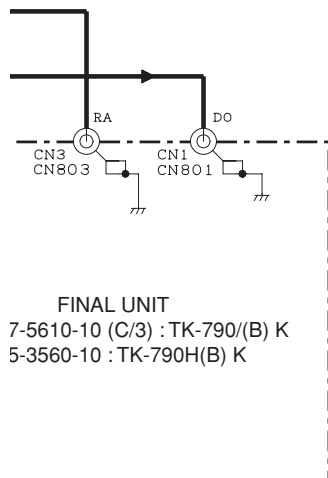




# TK-790/(B), TK-790H(B) SCHEMATIC DIAGRAM



# SCHEMATIC DIAGRAM TK-790/(B),TK-790H(B)



X57-5610-XX (A/3)

D101	: 1SS355	Q101, 102, 104, 201	: 2SC3357	IC101	: TA31136FN
D102, 104, 105	: 1SV269	Q105	: DTA144EUA	IC201	: BU4094BCF
D103	: MA742	Q106, 108	: DTC144EUA	IC202	: NJM78L05UA
D106-109, 306	: DAN235K	Q107	: 2SC4215-F(Y)	IC203	: AN8009M
D201, 202	: DA204K	Q109	: 2SC4617(S)	IC301	: CD8468
D301-304	: 1SV282-F	Q202, 206	: 2SB1132(Q,R)		
D305	: 1SV214-F	Q203, 205, 309	: DTC114EUA		
		Q204	: 2SC2954		
		Q301, 302	: 2SC4116(GR)		
		Q303, 304	: 2SC3722K(S)		
		Q305, 306	: 2SK508NV(K52)		
		Q307, 308	: 2SC4116(Y)		
		Q310, 311	: 2SC4215-F(Y)		
		Q312	: 2SC3120		

X57-5610-XX (A/3)

USE FOR		R208	R218	R219	R220	R221
X57-5610-10	TK-790/(B) K	2.2k	820	10	10	820
X57-5610-12	TK-790H(B) K	120	180	68	68	180

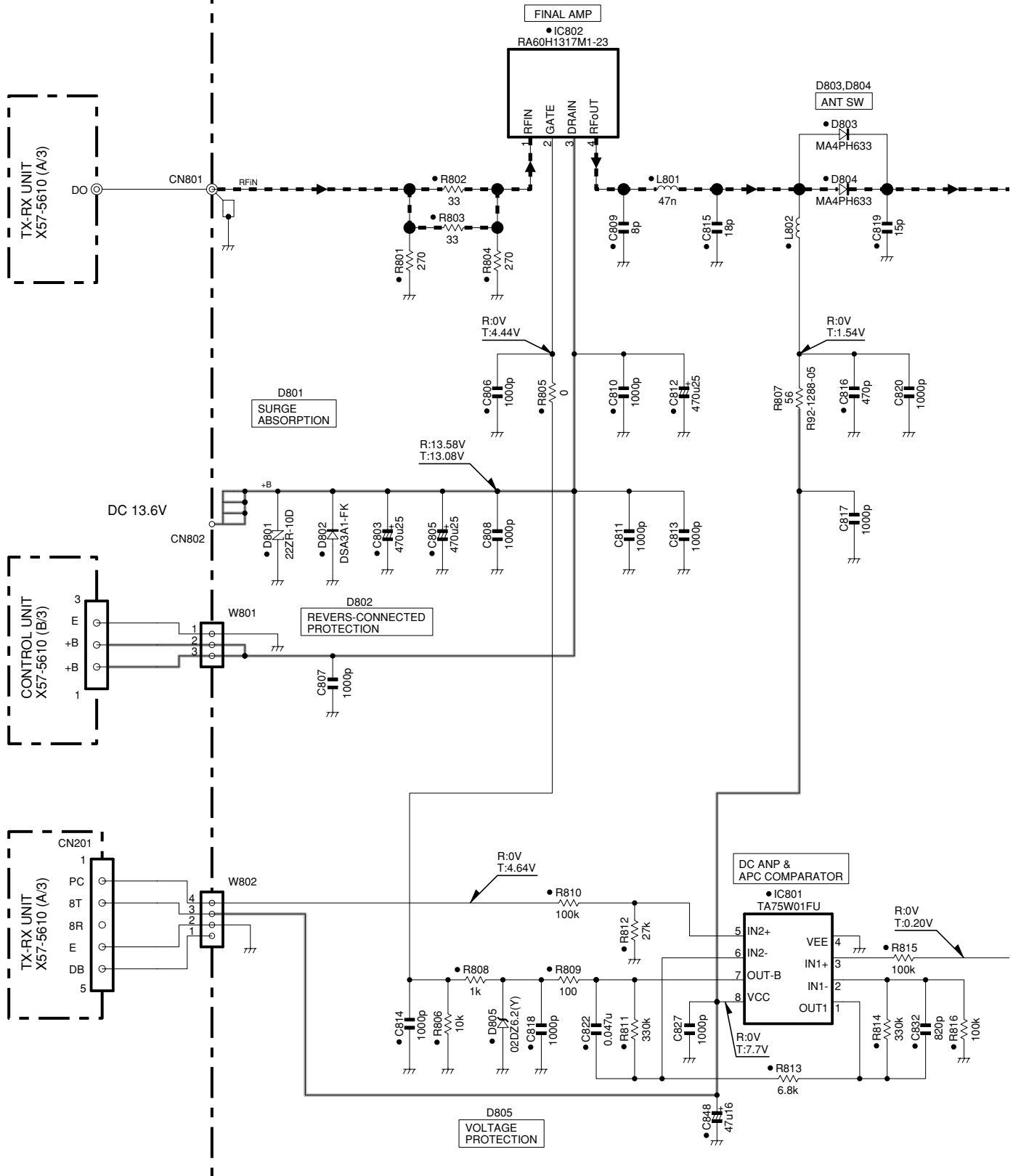


Note : The components marked with a dot (•) are parts of layer 1.



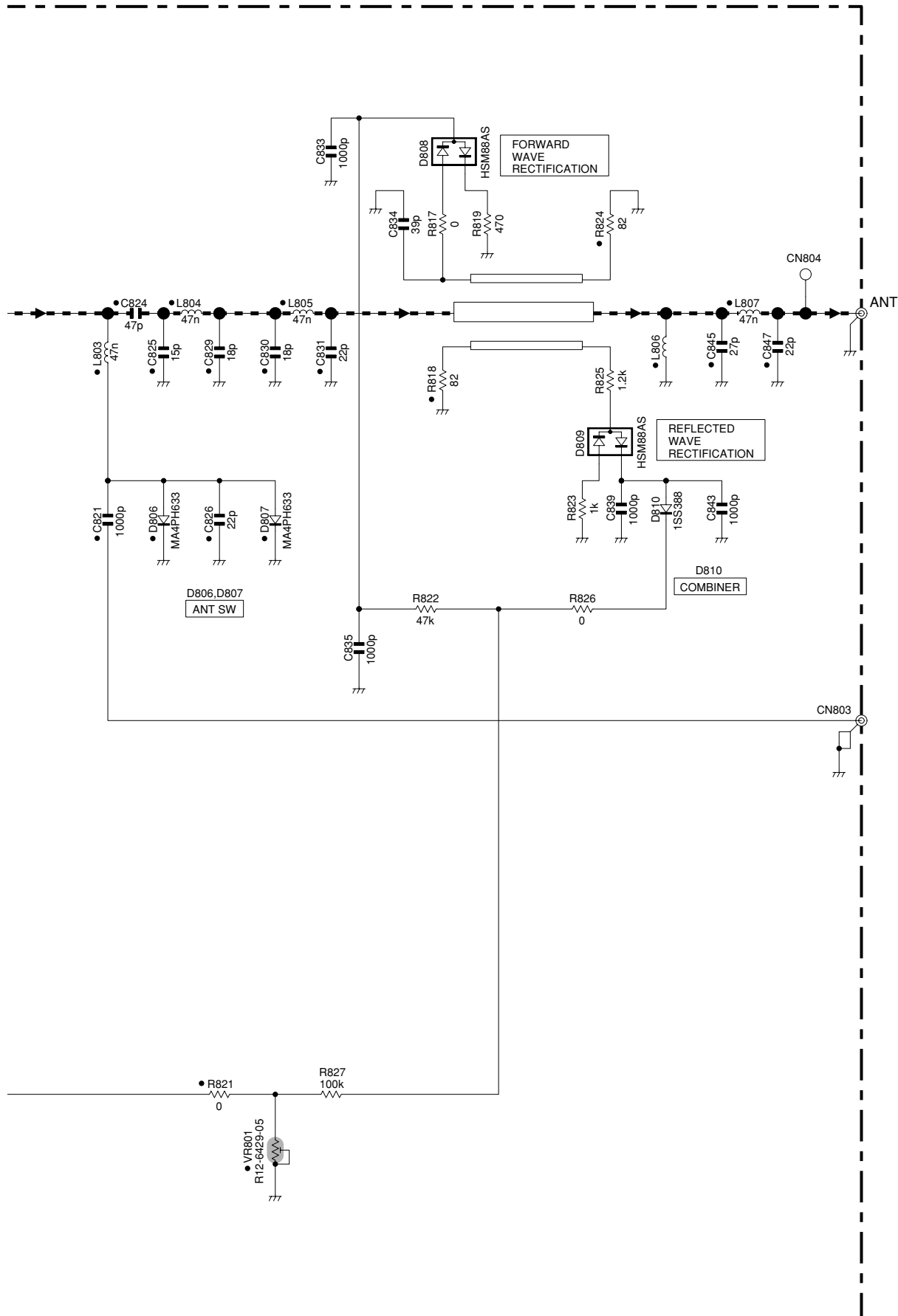
# TK-790/(B) SCHEMATIC DIAGRAM

TX-RX UNIT (FINAL SECTION) (X57-5610-10) (C/3) :TK-790/(B)



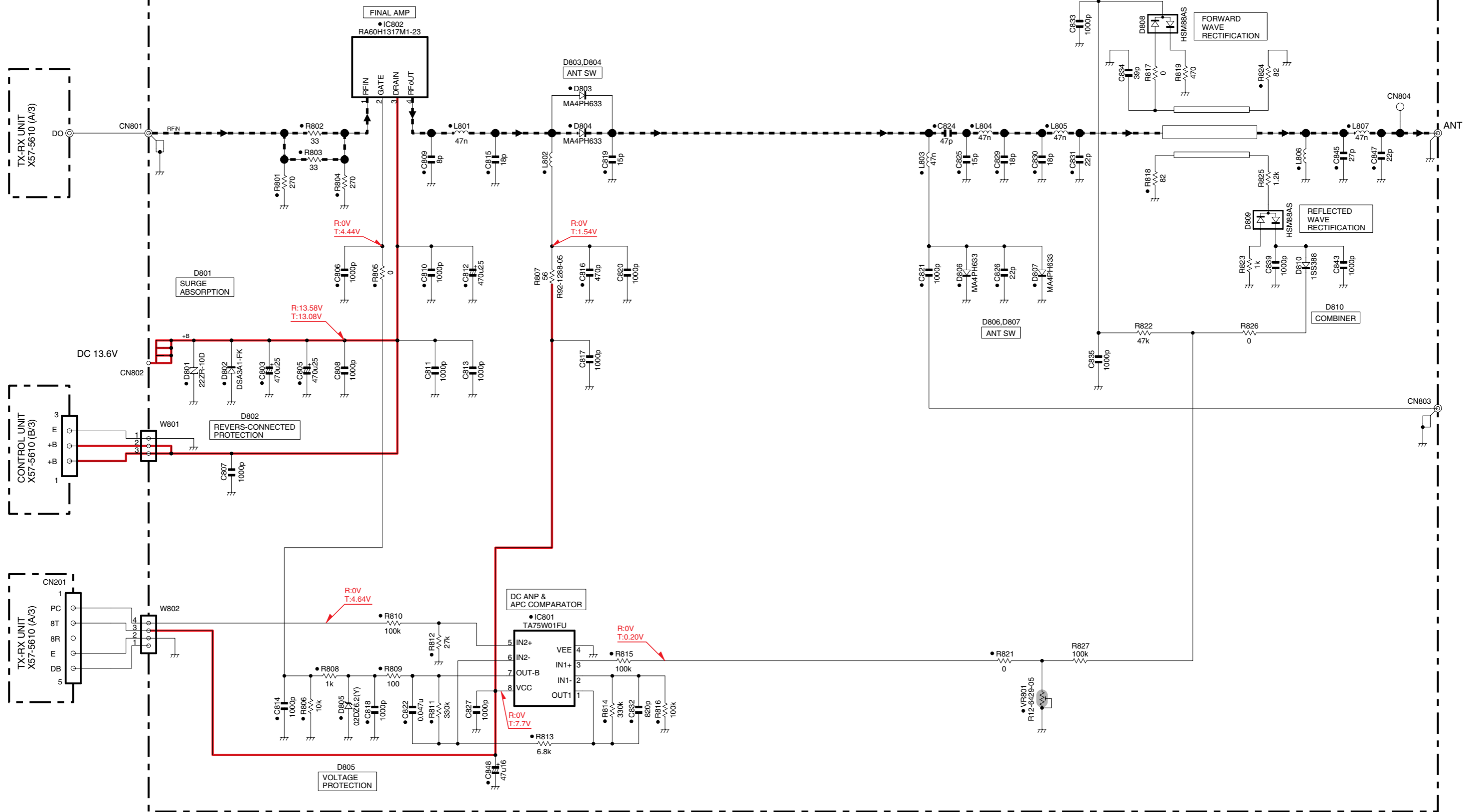
# SCHEMATIC DIAGRAM TK-790/(B)

TX-RX UNIT (FINAL SECTION) (X57-5610-10) (C/3) : TK-790/(B)



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

TX-RX UNIT (FINAL SECTION) (X57-5610-10) (C/3) :TK-790/(B)



# TK-790/(B),TK-790H(B)

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