UHF P25 TRANSCEIVER

TK-5810H(B)

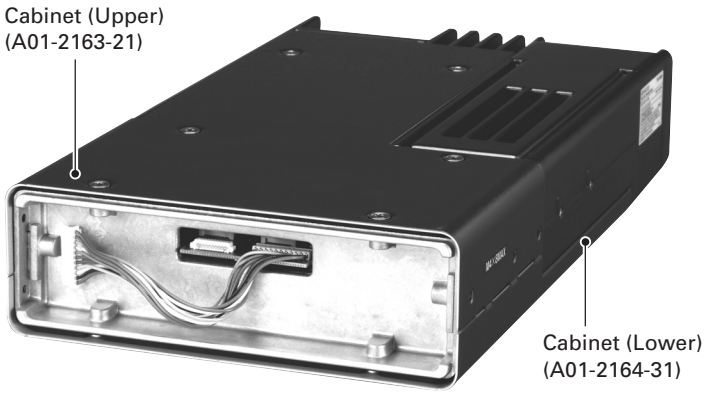
SERVICE MANUAL

KENWOOD

Kenwood Corporation

B51-8797-00 (S) 500

This service manual is issued as TK-5810H(B). For items not provided in this service manual, please refer to the TK-5810(B): B51-8780-00 service manual.



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This product uses Lead Free solder.

GENERAL

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P25 Transceivers:

The IMBE(TM) voice coding technology is embedded in the firmware under the license of Digital Voice Systems, Inc.

INTRODUCTION

SCOPE OF THIS MANUAL

This manual is intended for use by experienced technicians familiar with similar types of commercial grade communications equipment. It contains all required service information for the equipment and is current as of this publication date. Changes which may occur after publication are covered by either Service Bulletins or Manual Revisions, which are issued as required.

ORDERING REPLACEMENT PARTS

When ordering replacement parts or equipment information, the full part identification number should be included. This applies to all parts : components, kits, and chassis. If the part number is not known, include the chassis or kit number of which it is a part and a sufficient description of the required component, for proper identification.

PERSONAL SAFETY

The following precautions are recommended for personal safety :

- DO NOT transmit if someone is within two feet (0.6 meter) of the antenna.
- DO NOT transmit until all RF connectors are secure and any open connectors are properly terminated.
- SHUT OFF this equipment when near electrical blasting caps or while in an explosive atmosphere.
- All equipment should be properly grounded before power-up for safe operation.
- This equipment should be serviced by only qualified technicians.

PRE-INSTALLATION CONSIDERATIONS

1. UNPACKING

Unpack the radio from its shipping container and check for accessory items. If any item is missing, please contact KENWOOD immediately.

2. LICENSING REQUIREMENTS

Federal regulations require a station license for each radio installation (mobile or base) be obtained by the equipment owner. The licensee is responsible for ensuring transmitter power, frequency, and deviation are within the limits permitted by the station license.

Transmitter adjustments may be performed only by a licensed technician holding an FCC first, second or general class commercial radiotelephone operator's license. There is no license required to install or operate the radio.

3. PRE-INSTALLATION CHECKOUT

3-1. Introduction

Each radio is adjusted and tested before shipment. However, it is recommended that receiver and transmitter operation be checked for proper operation before installation.

3-2. Testing

The radio should be tested complete with all cabling and accessories as they will be connected in the final installation. Transmitter frequency, deviation, and power output should be checked, as should receiver sensitivity, squelch operation, and audio output. Signaling equipment operation should be verified.

4. PLANNING THE INSTALLATION

4-1. General

Inspect the vehicle and determine how and where the radio antenna and accessories will be mounted.

Plan cable runs for protection against pinching or crushing wiring, and radio installation to prevent overheating.

4-2. Antenna

The favored location for an antenna is in the center of a large, flat conductive area, usually at the roof center. The trunk lid is preferred, bond the trunk lid and vehicle chassis using ground straps to ensure the lid is at chassis ground.

GENERAL

4-3. Radio

The universal mount bracket allows the radio to be mounted in a variety of ways. Be sure the mounting surface is adequate to support the radio's weight. Allow sufficient space around the radio for air cooling. Position the radio close enough to the vehicle operator to permit easy access to the controls when driving.

4-4. DC Power and wiring

1. This radio may be installed in negative ground electrical systems only. Reverse polarity will cause the cable fuse to blow. Check the vehicle ground polarity before installation to prevent wasted time and effort.
2. Connect the positive power lead directly to the vehicle battery positive terminal. Connecting the Positive lead to any other positive voltage source in the vehicle is not recommended.
3. Connect the ground lead directly to the battery negative terminal.
4. The cable provided with the radio is sufficient to handle the maximum radio current demand. If the cable must be extended, be sure the additional wire is sufficient for the current to be carried and length of the added lead.

5. INSTALLATION PLANNING – CONTROL STATIONS

5-1. Antenna system

Control station. The antenna system selection depends on many factors and is beyond the scope of this manual. Your KENWOOD dealer can help you select an antenna system that will best serve your particular needs.

5-2. Radio location

Select a convenient location for your control station radio which is as close as practical to the antenna cable entry point. Secondly, use your system's power supply (which supplies the voltage and current required for your system). Make sure sufficient air can flow around the radio and power supply to allow adequate cooling.

SERVICE

This radio is designed for easy servicing. Refer to the schematic diagrams, printed circuit board views, and alignment procedures contained in this manual.

NOTE

You must use KPG-95D version 5.00 or later for this transceiver. KPG-95D versions earlier than version 5.00 will not work properly.

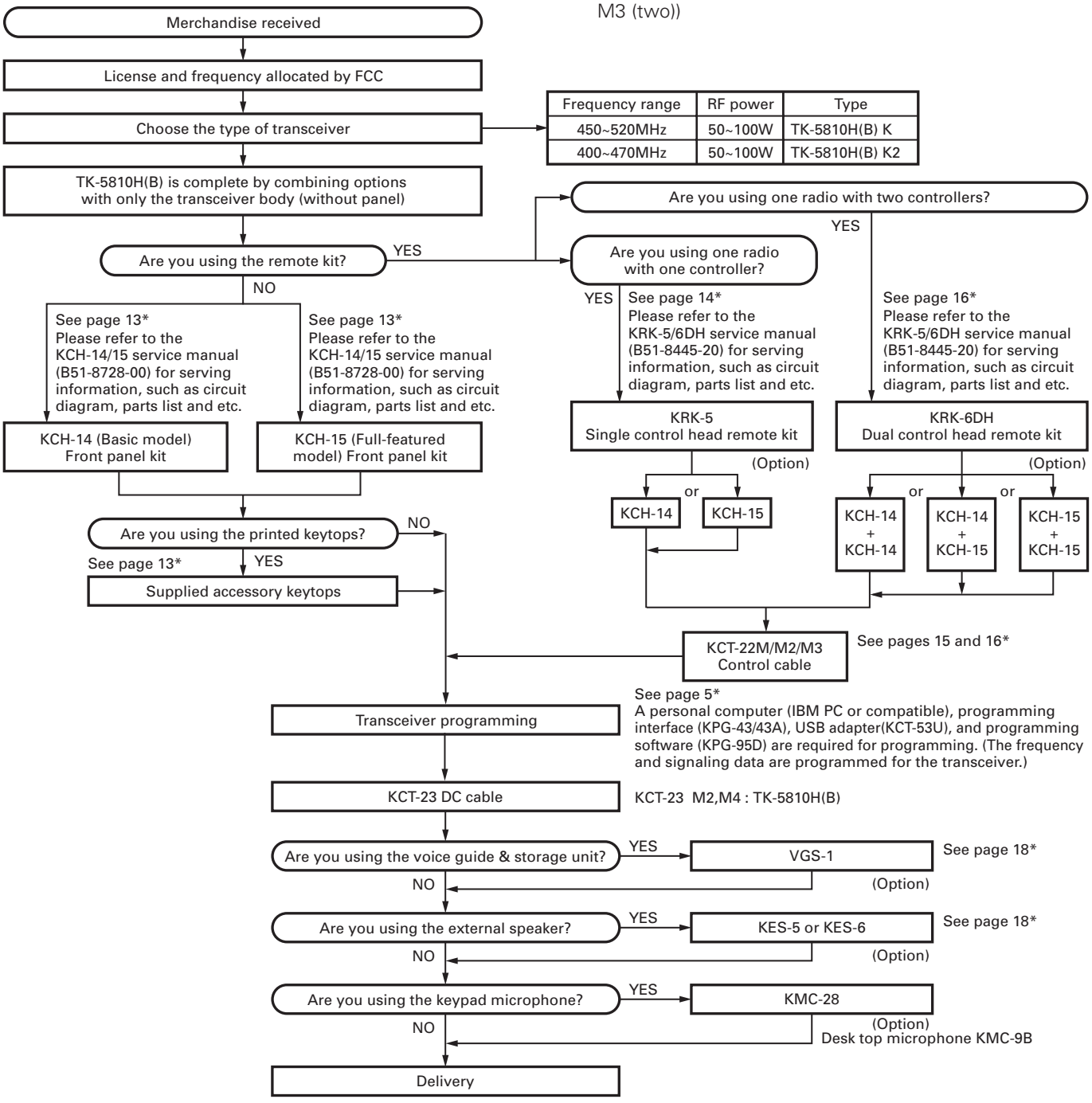
SYSTEM SET-UP

Before Reading About System Set-up

The TK-5810H(B) is a transceiver main unit (without a panel or speaker) that you complete by adding options.

The options are classified into three types according to operation and function.

1. Install the front panel kit (controller) directly on a radio to operate it. (Form : Radio + KCH-14/15)
2. Remotely control one radio with one controller. (Form : Radio + KRK-5 + KCH-14/15 + KCT-22M/M2/M3)
3. Remotely control one radio with two controllers. (Form : Radio + KRK-6DH + KCH-14/15 (two) + KCT-22M/M2/M3 (two))



Note :

* For the sections where it says "See page XX", refer to the manual of TK-5810(B)(B51-8780-00).

Service manual parts No. list

Model	Parts No.
KRK-5/6DH	B51-8445-20
KCH-14/15	B51-8728-00

DISASSEMBLY FOR REPAIR

Disassembly Procedure (TK-5810H (B))

■ Removing the upper/ lower case and shield cover

1. Remove the 12 screws ❶ and 12 spacers ❷.
2. Remove the upper case ❸ and lower case ❹.
3. Remove the upper packing ❺ and lower packing ❻.
4. Remove the shielding plate ❼-1.
5. Remove the shielding plate ❼-2.

■ Removing the TX-RX unit (X57-727)

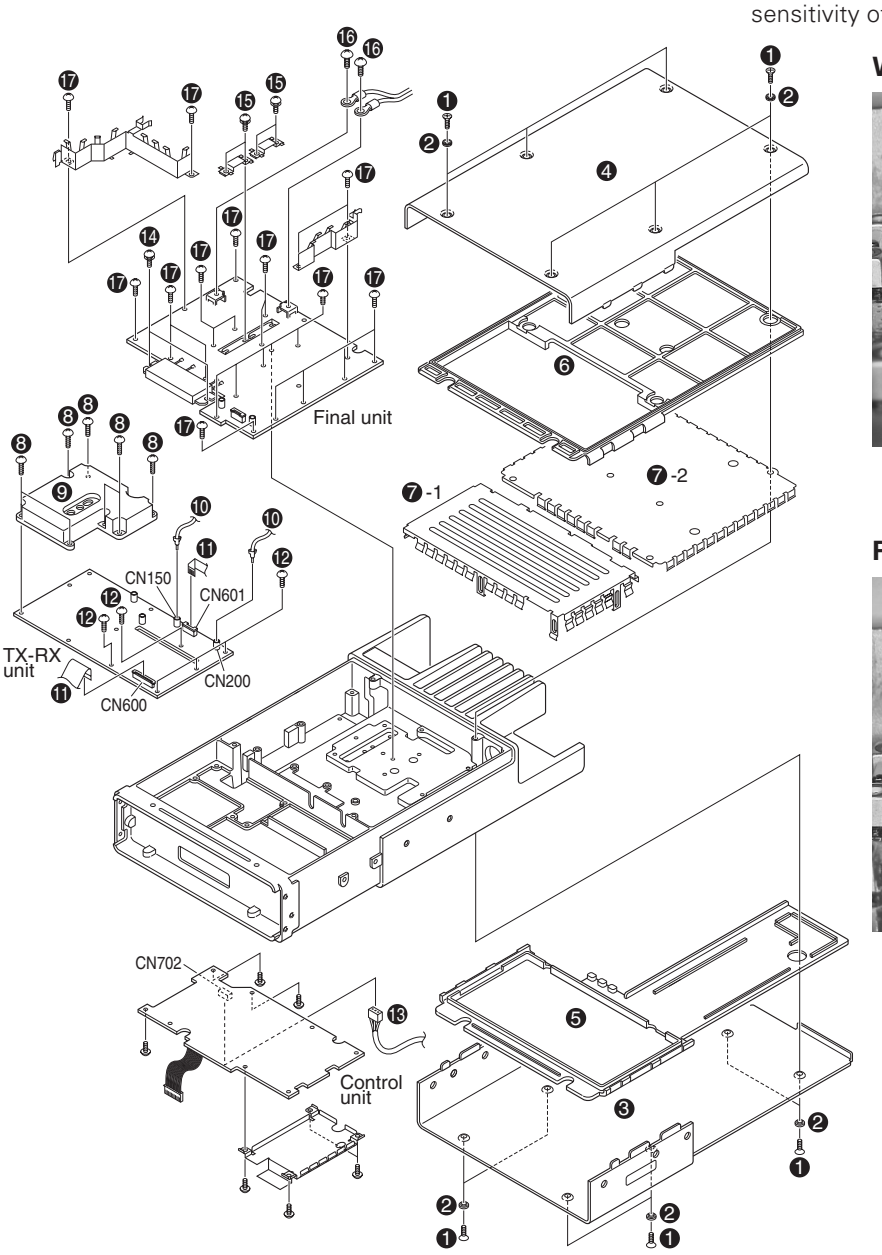
1. Remove the 7 screws ❽ holding the PLL shield cover.
2. Remove the PLL shield cover ❾.
3. Remove the coaxial cables from the two connectors (CN150, CN200) of the TX-RX unit ❿.
4. Remove the flat cables from the two connectors (CN600, CN601) of the TX-RX unit ⓫.
5. Remove the 5 screws ⓬.

■ Removing the Final unit (X45-380)

1. Remove the cables from the connector (CN702) of the control unit ⓭.
2. Remove the 2 screws ⓮ holding the power module.
3. Remove the solder of the power module with a solder absorber.
4. Remove the 4 screws ⓯ holding the two final transistors.
5. Remove the 2 screws ⓰ holding the + (positive) terminal and - (negative) terminal of the power supply cable.
6. Remove the 16 screws ⓱ holding the final unit.
7. Remove the solder of the antenna receptacle with a solder absorber.

Note :

When re-installing the flat cable to the connector on the CN600 side, do not align the cable as shown in the figure 1, as there is a possibility of producing an effect on the sensitivity of P25.



Wrong

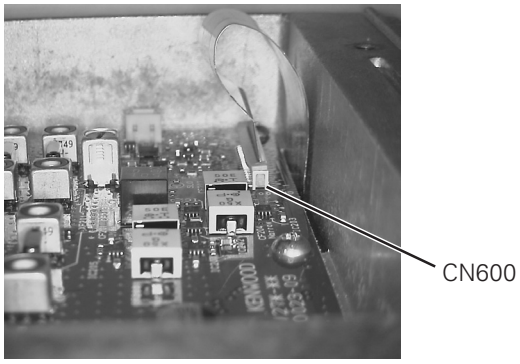


Fig. 1

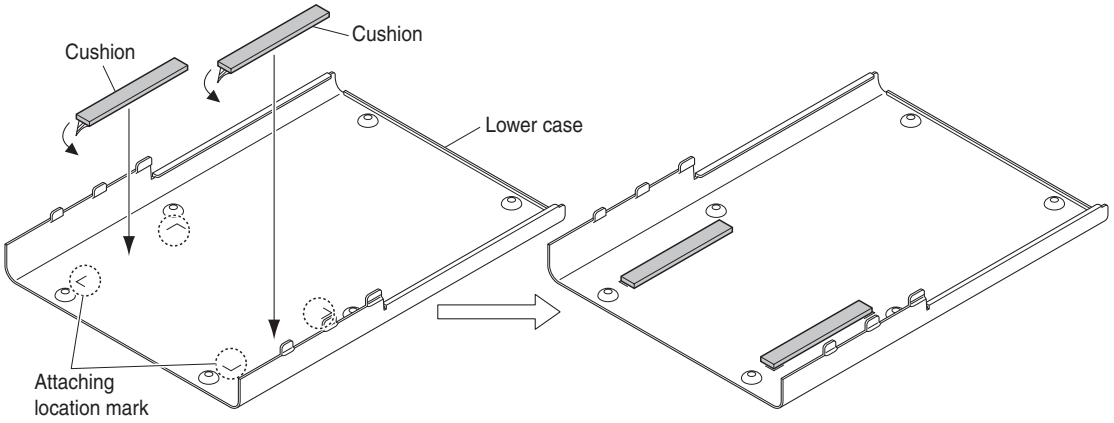
Right

Fig. 2

DISASSEMBLY FOR REPAIR

■ Attaching the two new cushions (G13-2195-14) to the lower case (A01-2164-31)

1. Remove the release paper from the two new cushions.
2. Attach the two cushions by aligning them with the attaching location marks which are stamped onto the lower case.

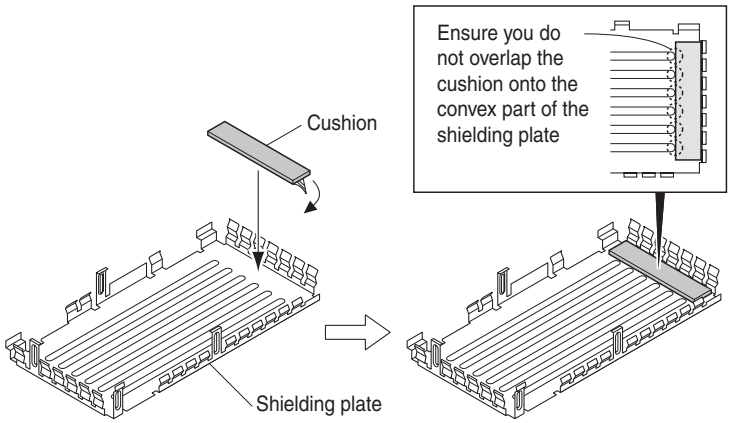


■ Attaching the new cushion (G13-2182-04) to the shielding plate

1. Remove the release paper from the new cushion.
2. Attach the cushion as shown in the figure below.

Notes :

- Ensure you do not overlap the cushion onto the convex part of the shielding plate.
- The cushion cannot be reused. Attach a new cushion when you remove the cushion.



CIRCUIT DESCRIPTION

1-1. Final Amplifier Circuit (From Power module to Antenna output): TK-5810H (B)

The transmit signal from the TX terminal (CN1) of the final unit (X45-380) is amplified by the power module (IC1).

The signal amplified by the power module is divided into two signal, and further is amplified by the final amplifier (Q1,Q2). The each signal from Q1 and Q2 is combined.

The combined signal passes through the antenna switch (D5, D6, D7, D8, D15, D16), CM coupler and low-pass filter, then it is fed to the antenna.

CM coupler is a line for detecting forward wave and reflected wave.

Forward wave is detected by D2, and is converted into DC voltage. The converted DC voltage is fed to the APC comparator (IC2), and is compared with the PC voltage, then is output from the OUT-B terminal (pin 7) of IC2 as an APC voltage. The APC voltage controls the gate voltage of the power module (IC1) and final amplifier (Q1,Q2), and keeps transmission output stable.

If an abnormal antenna load is connected, reflected wave is detected by D3, and output voltage (DC voltage) is fed to the APC comparator (IC2). The transmission output is reduced more as this DC voltage rises.

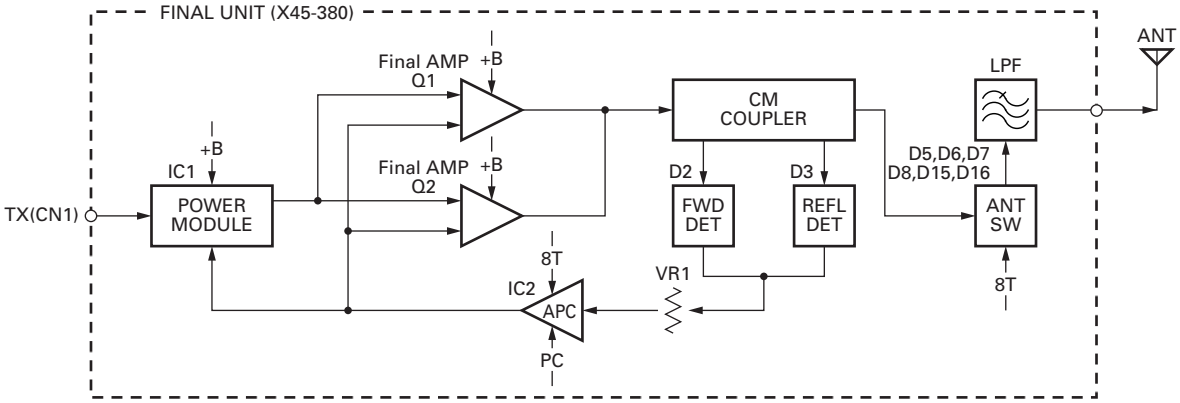


Fig. 1 Final amplifier circuit: TK-5810H (B)

1-2. Temperature Protection Circuit : TK-5810H (B)

To prevent thermal destruction of the power module (IC1) and final amplifier (Q1,Q2), this circuit reduces APC voltage when temperature of the power module (IC1) and final amplifier (Q1,Q2) rises.

The CPU (IC703) detects temperature with the thermistor (TH1,TH3) and controls reference voltage to the APC circuit.

COMPONENTS DESCRIPTION

TX-RX unit (X57-7270-XX)

Ref. No.	Part name	Description
IC200	IC	DBM
IC201~203	IC	Multiplexer
IC204	IC	OP AMP
IC205~207	IC	Multiplexer
IC209	IC	FM IC
IC210	IC	Buffer
IC211	IC	Multiplexer
IC400	IC	PLL IC
IC401	IC	Potentiometer
IC402	IC	DC/DC
IC403	IC	VCO Tune
IC600	IC	Shift register
IC601	IC	Voltage regulator (5V)
Q150,151,200	Transistor	RF AMP
Q201,202	Transistor	DC switch
Q203	Transistor	Local AMP
Q204,205	Transistor	IF AMP
Q207	Transistor	VCXO frequency AMP
Q208,209	Transistor	DC switch
Q210	FET	DC switch
Q211	Transistor	Noise AMP
Q400	FET	CV detection
Q401,402	Transistor	UL detection
Q403	Transistor	PLL Fin AMP
Q404	Transistor	TX/RX switch
Q405	FET	TX/RX switch
Q406	FET	DC/DC
Q407	Transistor	VCO1/2 switch
Q408	FET	VCO1/2 switch
Q409,410	Transistor	VCO1/2 switch
Q411,412	Transistor	Ripple filter
Q413~415	FET	VCO oscillator
Q416	Transistor	Buffer AMP
Q417	Transistor	PLL Fin AMP
Q418	Transistor	Buffer AMP
Q600,601	Transistor	8T switch
Q602,603	Transistor	8R switch
D200~203	Variable capacitance diode	HPF control
D204~207	Variable capacitance diode	BPF control
D208~217	Diode	IF filter switch
D400	Diode	Ripple filter
D401	Diode	Assist DC
D402,403	Variable capacitance diode	VCO control
D405~409	Variable capacitance diode	VCO control
D411~414	Variable capacitance diode	VCO control
D416,417	Variable capacitance diode	VCO control
D418	Variable capacitance diode	Modulation
D419,420	Diode	TX/RX switch
D421,422	Variable capacitance diode	VCO control

Final unit (X45-3800-10:K X45-3800-11:K2)

Ref. No.	Part name	Description
IC1	IC	TX drive AMP
IC2	IC	DC AMP and APC comparator
Q1,2	FET	Final AMP
D1	Zener diode	Protect of voltage
D2	Diode	Forward wave rectification
D3	Diode	Reflected wave rectification
D4	Diode	Combiner
D5~8	Diode	ANT switch
D10	Diode	Surge absorption
D13	Diode	Protect of reverse connection
D14	Diode	Surge absorption
D15,16	Diode	ANT switch

TERMINAL FUNCTION

Final unit (X45-3800-10:K X45-3800-11:K2)

Pin No.	Name	I/O	Description
CN1 (to TX-RX unit CN152)			
1	TX	I	TX drive input
CN2 (to TX-RX unit CN601)			
1	FTEMP2	O	Final unit temperature 2
2	FTEMP1	O	Final unit temperature 1
3	8T	–	8V input during transmission
4	8T	–	8V input during transmission
5	E	–	GND
6	PC	I	TX power control voltage
CN4 (to TX-RX unit CN200)			
1	RX	O	RX signal output
CN5 (to DC cable)			
1	+B	I	Power supply input (13.4V±15%)
CN6 (to DC cable)			
1	E	–	GND
W1 (to Control unit CN702)			
1	+B	O	Power supply output (13.4V±15%)
2	+B	O	Power supply output (13.4V±15%)
3	E	–	GND

TK-5810H(B)

PARTS LIST

∗ New Parts. ⚠ indicates safety critical components.
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

L: Scandinavia **K**: USA **P**: Canada
Y: PX (Far East, Hawaii) **T**: England **E**: Europe
Y: AAFES (Europe) **X**: Australia **M**: Other Areas

TK-5810H(B) (Y51-5120-XX)
FINAL UNIT (X45-3800-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
TK-5810H(B) -10:K -11:K2					
3	3A		A01-2163-21	METALLIC CABINET(UPPER)	
4	1B	*	A01-2164-31	METALLIC CABINET(LOWER)	
7	2A	*	A10-4115-01	CHASSIS	
10	2C		B62-1938-00	INSTRUCTION MANUAL	
14	2B		E04-0167-15	RF COAXIAL RECEPTACLE(M)	
15	1A		E37-0179-05	LEAD WIRE WITH MINIPIN PLUG(X45-X57)	
16	1C		E37-0733-05	SHORT PLUG(SP) ACCESSORY	
17	2B		E37-0773-35	LEAD WIRE WITH CONNECTOR(D-SUB)	
18	2A,3A	*	E37-1147-15	FLAT CABLE(X53:CN782-X57:CN600)	
20	2B	*	E37-1150-25	LEAD WIRE WITH CONNECTOR(DC4P/ACC9P)	
22	1A,2A		E37-1156-05	FLAT CABLE(X45:CN2-X57:CN601)	
26	1B		F10-1488-02	SHIELDING PLATE(FINAL:X45)	
27	1A		F10-2265-13	SHIELDING COVER(VCO,TX-RX:X57)	
28	3A		F10-3012-04	SHIELDING PLATE(CONTROL:X53)	
29	1A		F10-3015-04	SHIELDING PLATE(X45 LPF)	
30	1A		F10-3039-04	SHIELDING PLATE(X45 DC)	
31	2A		F10-3040-04	SHIELDING PLATE(X45 ACC)	
32	1B	*	F10-3069-12	SHIELDING PLATE(X57:TX-RX)	
33	3A		G02-0599-04	FLAT SPRING(AVR)	
34	3A		G02-0709-04	FLAT SPRING(AUDIO AMP)	
35	1A	*	G02-1834-04	EARTH SPRING(FINAL AMP)	
36	2B		G10-1327-04	FIBROUS SHEET	
38	2A,1C		G11-4379-04	SHEET ACCESSORY	
39	2B		G13-2182-04	CUSHION(X57 SHELDING PLATE)	
40	1B		G13-2195-14	CUSHION(BOTTOM CABINET)	
41	2B		G53-1626-03	PACKING(D-SUB CAP)	
42	2B		G53-1657-04	PACKING(ANT)	
44	2B		G53-1659-04	PACKING(DC/ACC)	
47	3A		G53-1667-11	PACKING(TOP)	
48	1B		G53-1668-11	PACKING(BOTTOM)	
49	2B		G53-1687-04	PACKING(D-SUB)	
50	1C		H02-0626-04	INNER CARTON CASE	
51	2C		H12-3176-02	PACKING FIXTURE(HEAD-SPACE)	
53	2C,3C		H12-3185-02	PACKING FIXTURE(TOP,BOTTOM)	
58	3C	*	H52-2129-02	ITEM CARTON CASE	
62	1B,3A,3B	*	J39-0651-15	SPACER(TOP,BOTTOM,CABINET)	
A	2B		N09-2292-05	HEXAGON HEAD SCREW(D-SUB)	
B	1B,3A,3B		N32-3008-43	FLAT HEAD MACHINE SCREW(CABNET)	
E	1A		N67-3008-48	PAN HEAD SEMS SCREW(POWER MODULE)	
G	2B		N68-4006-48	PAN HEAD SEMS SCREW(DC TERMINAL)	
H	1A,1B,2A 3A,3B		N87-2606-48	BRAZIER HEAD TAPTITE SCREW(PCB)	
I	1A		N87-2612-48	BRAZIER HEAD TAPTITE SCREW(SHIELD)	
J	2B		N87-3008-48	BRAZIER HEAD TAPTITE SCREW(DC/ACC,ANT)	
63	1C		N99-2051-05	SCREW SET ACCESSORY	
65	3A		W09-0971-05	LITHIUM CELL(X53)	
FINAL UNIT (X45-3800-XX) -10:K -11:K2					
C1 -4			CK73GB1H471K	CHIP C 470PF	K
C7			CK73GB1H471K	CHIP C 470PF	K
C8			CK73FB1H471K	CHIP C 470PF	K
C10 ,11			CK73FB1H471K	CHIP C 470PF	K
C12			CK73GB1H471K	CHIP C 470PF	K
C14			CK73GB1H471K	CHIP C 470PF	K
C15			C93-0599-05	CHIP C 470PF	K
C16			CK73GB1H471K	CHIP C 470PF	K
C18			C93-0553-05	CHIP C 3.0PF C	K
C18			C93-0554-05	CHIP C 4.0PF C	K2
C19			C93-0552-05	CHIP C 2.0PF C	
C20 ,21			C93-0567-05	CHIP C 39PF J	
C24 ,25			C93-0599-05	CHIP C 470PF K	
C27			CK73GB1H471K	CHIP C 470PF K	
C29 ,30			C93-0555-05	CHIP C 5.0PF C	K
C29 ,30			C93-0560-05	CHIP C 10PF D	K2
C31			CK73GB1H471K	CHIP C 470PF K	
C32			CK73GB1C104K	CHIP C 0.10UF K	
C33 ,34			C93-0553-05	CHIP C 3.0PF C	K
C33 ,34			C93-0556-05	CHIP C 6.0PF D	K2
C35		*	CM73F2H300F	CHIP C 30PF F	K
C35		*	CM73F2H390F	CHIP C 39PF F	K2
C36			CM73F2H070D	CHIP C 7.0PF D	K
C36			CM73F2H120J	CHIP C 12PF J	K2
C37			CK73GB1H471K	CHIP C 470PF K	
C38 ,39		*	CM73F2H300F	CHIP C 30PF F	K
C38 ,39		*	CM73F2H390F	CHIP C 39PF F	K2
C40			CM73F2H070D	CHIP C 7.0PF D	K
C40			CM73F2H120J	CHIP C 12PF J	K2
C41		*	CM73F2H300F	CHIP C 30PF F	K
C41		*	CM73F2H390F	CHIP C 39PF F	K2
C42			C93-0599-05	CHIP C 470PF K	
C43			CM73F2H270F	CHIP C 27PF F	K
C43		*	CM73F2H300F	CHIP C 30PF F	K2
C44			C93-0599-05	CHIP C 470PF K	
C45		*	CM73F2H300F	CHIP C 30PF F	K2
C45 -47			CM73F2H270F	CHIP C 27PF F	K
C46 ,47			CM73F2H270F	CHIP C 27PF F	K2
C48 ,49			CM73F2H080C	CHIP C 8.0PF C	K
C48 ,49		*	CM73F2H200C	CHIP C 20PF C	K2
C51 ,52			CK73FB1H471K	CHIP C 470PF K	
C53 ,54			CM73F2H020C	CHIP C 2.0PF C	K
C55 ,56			CK73FB1H103K	CHIP C 0.010UF K	
C57 ,58			CM73F2H020C	CHIP C 2.0PF C	K
C57 ,58		*	CM73F2H100C	CHIP C 10PF C	K2
C59 ,60			CK73FB1E104K	CHIP C 0.10UF K	
C61 ,62			CM73F2H101J	CHIP C 100PF J	K2
C61 ,62			CM73F2H391J	CHIP C 390PF J	K
C63			CM73F2H020C	CHIP C 2.0PF C	K2
C63			CM73F2H1R5C	CHIP C 1.5PF C	K
C67			CM73F2H010C	CHIP C 1.0PF C	K
C67			CM73F2H040C	CHIP C 4.0PF C	K2
C68 ,69			CM73F2H020C	CHIP C 2.0PF C	K
C71			CK73GB1H471K	CHIP C 470PF K	
C73			CM73F2H330J	CHIP C 33PF J	K2
C73			CM73F2H470J	CHIP C 47PF J	K
C74 ,75			CK73FB1H471K	CHIP C 470PF K	
C77			CM73F2H270J	CHIP C 27PF J	K

PARTS LIST

FINAL UNIT (X45-3800-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
C77			CM73F2H330J	CHIP C 33PF J	K2
C78			CK73GB1H471K	CHIP C 470PF K	
C80			C93-0599-05	CHIP C 470PF K	
C81			CK73FB1H471K	CHIP C 470PF K	
C82			CM73F2H040C	CHIP C 4.0PF C	K
C82		*	CM73F2H090C	CHIP C 9.0PF C	K2
C83			CM73F2H101J	CHIP C 100PF J	K2
C83			CM73F2H391J	CHIP C 390PF J	K
C84			CM73F2H040C	CHIP C 4.0PF C	
C85			CC73FCH1H101J	CHIP C 100PF J	
C87		*	CM73F2H070C	CHIP C 7.0PF C	
C88			CC73FCH1H080D	CHIP C 8.0PF D	
C89		*	CM73F2H070C	CHIP C 7.0PF C	K
C89			CM73F2H080C	CHIP C 8.0PF C	K2
C90			CK73FB1H471K	CHIP C 470PF K	
C93			CC73FCH1H020C	CHIP C 2.0PF C	K2
C94		*	CM73F2H070C	CHIP C 7.0PF C	K
C94			CM73F2H080C	CHIP C 8.0PF C	K2
C95			CK73FB1H471K	CHIP C 470PF K	
C96		*	CM73F2H070C	CHIP C 7.0PF C	
C98			CM73F2H050C	CHIP C 5.0PF C	K
C98		*	CM73F2H070C	CHIP C 7.0PF C	K2
C101			CK73FB1H471K	CHIP C 470PF K	
C102,103			CK73GB1H471K	CHIP C 470PF K	
C104			CK73GB1H103K	CHIP C 0.010UF K	
C105,106		*	CM73F2H100C	CHIP C 10PF C	K
C105,106		*	CM73F2H180C	CHIP C 18PF C	K2
C107,108			CM73F2H030C	CHIP C 3.0PF C	K
C109			CC73FCH1H470J	CHIP C 47PF J	K
C109			CC73FCH1H560J	CHIP C 56PF J	K2
C110			CK73FB1H471K	CHIP C 470PF K	
C116,117			CK73GB1H471K	CHIP C 470PF K	
C119,120			CK73GB1H471K	CHIP C 470PF K	
C122,123			CK73GB1H471K	CHIP C 470PF K	
C124			CC73GCH1H270J	CHIP C 27PF J	
C125,126			CK73GB1H471K	CHIP C 470PF K	
C131,132			CC73GCH1H270J	CHIP C 27PF J	
C133,134			CK73GB1H471K	CHIP C 470PF K	
C135			CK73GB1C104K	CHIP C 0.10UF K	
C136			CK73GB1H103K	CHIP C 0.010UF K	
C138			CC73GCH1H270J	CHIP C 27PF J	
C139,140			C92-0777-05	ELECTRO 1000UF 25WV	
C141,142			C90-4126-05	ELECTRO 680UF 25WV	
C143			C90-4126-05	ELECTRO 680UF 25WV	
CN1 ,4			E04-0154-05	PIN SOCKET	
CN5 ,6			E23-1116-05	RELAY TERMINAL	
CN3			E23-1118-05	TERMINAL	
W1		*	E37-1218-05	LEAD WIRE WITH CONNECTOR	
CN2			E40-6429-05	FLAT CABLE CONNECTOR	
L1 ,2			L92-0179-05	CHIP FERRITE	
L3 ,4			L34-4518-05	AIR-CORE COIL	
L5 ,6			L92-0179-05	CHIP FERRITE	
L7 ,8			L34-4520-05	AIR-CORE COIL	
L9 ,10			L92-0179-05	CHIP FERRITE	
L11 ,12			L34-4518-05	AIR-CORE COIL	
L13			L34-4523-05	AIR-CORE COIL	
L14 ,15		*	L34-4875-05	AIR-CORE COIL	

Ref. No.	Address	New parts	Parts No.	Description	Destination
L16 ,17		*	L34-4875-05	AIR-CORE COIL	
L18			L41-8275-33	SMALL FIXED INDUCTOR(0.082UH)	K
L18 ,19			L41-1085-33	SMALL FIXED INDUCTOR(0.1UH)	K2
L19			L41-1085-33	SMALL FIXED INDUCTOR(0.1UH)	K
R1			RK73FB2B821J	CHIP R 820 J 1/8W	K
R2			RK73FB2B000J	CHIP R 0.0 J 1/8W	K2
R2 ,3			RK73FB2B100J	CHIP R 10 J 1/8W	K
R4			RK73FB2B821J	CHIP R 820 J 1/8W	K
R5			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R6			RK73GB2A183J	CHIP R 18K J 1/10W	
R7			RK73GB2A821J	CHIP R 820 J 1/10W	K2
R7 -9			RK73GB2A000J	CHIP R 0.0 J 1/10W	K
R8 ,9			RK73GB2A000J	CHIP R 0.0 J 1/10W	K2
R10			RK73GB2A103J	CHIP R 10K J 1/10W	
R11			RK73GB2A123J	CHIP R 12K J 1/10W	
R12			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R13 -15		*	RK73PB2H150J	CHIP R 15 J 1/2W	K2
R13 ,14		*	RK73PB2H150J	CHIP R 15 J 1/2W	K
R15 -18			RK73PB2H180J	CHIP R 18 J 1/2W	K
R16 ,17			RK73PB2H180J	CHIP R 18 J 1/2W	K2
R18		*	RK73PB2H150J	CHIP R 15 J 1/2W	K2
R19			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R20			RK73GB2A224J	CHIP R 220K J 1/10W	K2
R20			RK73GB2A274J	CHIP R 270K J 1/10W	K
R21			RK73GB2A101J	CHIP R 100 J 1/10W	
R22 ,23		*	RK73PB2H471J	CHIP R 470 J 1/2W	
R24			RK73GB2A224J	CHIP R 220K J 1/10W	K
R24			RK73GB2A274J	CHIP R 270K J 1/10W	K2
R25			RK73GB2A124J	CHIP R 120K J 1/10W	K
R25			RK73GB2A334J	CHIP R 330K J 1/10W	K2
R26			RK73GB2A332J	CHIP R 3.3K J 1/10W	K2
R26			RK73GB2A472J	CHIP R 4.7K J 1/10W	K
R27			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R28			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R29			RK73GB2A104J	CHIP R 100K J 1/10W	
R30			RK73GB2A102J	CHIP R 1.0K J 1/10W	K2
R31			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R36			RK73GB2A104J	CHIP R 100K J 1/10W	
R39			RK73GB2A103J	CHIP R 10K J 1/10W	K2
R39			RK73GB2A224J	CHIP R 220K J 1/10W	K
R40			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R42			RK73FB2B560J	CHIP R 56 J 1/8W	K
R42			RK73FB2B820J	CHIP R 82 J 1/8W	K2
R45			RK73GB2A224J	CHIP R 220K J 1/10W	K2
R45			RK73GB2A563J	CHIP R 56K J 1/10W	K
R46			RK73FB2B221J	CHIP R 220 J 1/8W	K
R46			RK73FB2B331J	CHIP R 330 J 1/8W	K2
R47			RK73GB2A000J	CHIP R 0.0 J 1/10W	K2
R47			RK73GB2A103J	CHIP R 10K J 1/10W	K
R49			RK73FB2B181J	CHIP R 180 J 1/8W	K2
R49			RK73FB2B391J	CHIP R 390 J 1/8W	K
R50			RK73FB2B680J	CHIP R 68 J 1/8W	K
R50			RK73FB2B820J	CHIP R 82 J 1/8W	K2
R54			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R55 ,56			RK73PB2H101J	CHIP R 100 J 1/2W	
R57			RK73FB2B224J	CHIP R 220K J 1/8W	
R59			RS14DB3F101J	FL-PROOF RS 100 J 3W	
VR1			R12-6431-05	TRIMMING POT.(220K)	

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

TK-5810H(B)

PARTS LIST

FINAL UNIT (X45-3800-XX)
TX-RX UNIT (X57-7270-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
D1			UDZS5.6B	ZENER DIODE	
D2 ,3			HSM88AS-E	DIODE	
D4			MA2S111-F	DIODE	
D5 ,6			MA4P4002F	DIODE	
D7 ,8			MA4PH633	DIODE	
D10			ZSH5MA27	SURGE ABSORBER	
D13			DF25V60	DIODE	
D14		*	CSA70-401L	SURGE ABSORBER	
D15 ,16			HVC131	DIODE	
IC1		*	RA13H4047M123	MOS-IC	K2
IC1		*	RA13H4452M123	MOS-IC	K
IC2			TA75W01FUF	MOS-IC	
Q1 ,2			RD60HUF1-101	FET	
TH1			S1R104J475H	THERMISTOR	
TH3			S1R104J475H	THERMISTOR	
TX-RX UNIT (X57-7270-XX) -10:K -11:K2					
C151			CK73GB1H471K	CHIP C 470PF K	
C152			CC73GCH1H100C	CHIP C 10PF C	
C153			CC73GCH1H220J	CHIP C 22PF J	
C155			CC73GCH1H181J	CHIP C 180PF J	
C156			CK73GB1H471K	CHIP C 470PF K	
C157			CC73GCH1H010B	CHIP C 1.0PF B	K
C157			CC73GCH1H080B	CHIP C 8.0PF B	K2
C158			CC73GCH1H120J	CHIP C 12PF J	K
C158			CC73GCH1H180J	CHIP C 18PF J	K2
C160			CC73GCH1H101J	CHIP C 100PF J	
C161			CK73GB1H471K	CHIP C 470PF K	
C162			C92-0865-05	ELECTRO 47UF 20WV	
C163			CC73GCH1H050B	CHIP C 5.0PF B	
C164			CK73GB1H471K	CHIP C 470PF K	
C165			CC73GCH1H060B	CHIP C 6.0PF B	K
C165			CC73GCH1H070B	CHIP C 7.0PF B	K2
C166			CK73GB1H471K	CHIP C 470PF K	
C167			CC73GCH1H050B	CHIP C 5.0PF B	
C168			CK73GB1H103K	CHIP C 0.010UF K	
C169,170			CK73GB1H471K	CHIP C 470PF K	
C200			CK73GB1H471K	CHIP C 470PF K	
C201			CC73GCH1H030B	CHIP C 3.0PF B	K
C201			CC73GCH1H040B	CHIP C 4.0PF B	K2
C202			CK73GB1H471K	CHIP C 470PF K	
C203			CC73GCH1H020B	CHIP C 2.0PF B	K2
C203			CC73GCH1H1R5B	CHIP C 1.5PF B	K
C204			CC73GCH1H030B	CHIP C 3.0PF B	K
C204			CC73GCH1H040B	CHIP C 4.0PF B	K2
C205			CC73GCH1H0R5B	CHIP C 0.5PF B	K
C205			CC73GCH1H010B	CHIP C 1.0PF B	K2
C206			CK73GB1H471K	CHIP C 470PF K	
C207			CC73GCH1H030B	CHIP C 3.0PF B	
C208			CC73GCH1H0R5B	CHIP C 0.5PF B	K
C208			CC73GCH1H010B	CHIP C 1.0PF B	K2
C209,210			CK73GB1H471K	CHIP C 470PF K	
C211			CC73GCH1H030B	CHIP C 3.0PF B	K
C211			CC73GCH1H040B	CHIP C 4.0PF B	K2
C212			CC73GCH1H020B	CHIP C 2.0PF B	K2
C212			CC73GCH1H1R5B	CHIP C 1.5PF B	K
C213			CK73GB1H471K	CHIP C 470PF K	
C214			CC73GCH1H120J	CHIP C 12PF J	K2

Ref. No.	Address	New parts	Parts No.	Description	Destination
C214			CC73GCH1H150J	CHIP C 15PF J	K
C216			CK73GB1H471K	CHIP C 470PF K	
C218			CC73GCH1H080B	CHIP C 8.0PF B	K2
C218			CC73GCH1H100C	CHIP C 10PF C	K
C220-223			CK73GB1H471K	CHIP C 470PF K	
C224			CC73GCH1H180J	CHIP C 18PF J	K2
C224			CC73GCH1H220J	CHIP C 22PF J	K
C225			CC73GCH1H090B	CHIP C 9.0PF B	K
C225			CC73GCH1H100C	CHIP C 10PF C	K2
C226			CC73GCH1H030B	CHIP C 3.0PF B	K
C226			CC73GCH1H050B	CHIP C 5.0PF B	K2
C227			CC73GCH1H150J	CHIP C 15PF J	K2
C227			CC73GCH1H180J	CHIP C 18PF J	K
C228			CC73GCH1H070B	CHIP C 7.0PF B	K
C228			CC73GCH1H090B	CHIP C 9.0PF B	K2
C229			CC73GCH1H040B	CHIP C 4.0PF B	K
C229			CC73GCH1H060B	CHIP C 6.0PF B	K2
C230			CC73GCH1H150J	CHIP C 15PF J	K2
C230			CC73GCH1H180J	CHIP C 18PF J	K
C231			CC73GCH1H070B	CHIP C 7.0PF B	K
C231			CC73GCH1H090B	CHIP C 9.0PF B	K2
C232			CC73GCH1H050B	CHIP C 5.0PF B	
C233			CC73GCH1H220J	CHIP C 22PF J	K
C233			CC73GCH1H270J	CHIP C 27PF J	K2
C234			CK73GB1H471K	CHIP C 470PF K	
C235			CC73GCH1H080B	CHIP C 8.0PF B	K
C235			CC73GCH1H100C	CHIP C 10PF C	K2
C236			CK73GB1H471K	CHIP C 470PF K	
C238,239			CC73GCH1H680J	CHIP C 68PF J	
C240			CK73GB1H103K	CHIP C 0.010UF K	
C241,242			CK73GB1H471K	CHIP C 470PF K	
C243			CK73GB1H103K	CHIP C 0.010UF K	
C244,245			CC73GCH1H080B	CHIP C 8.0PF B	
C246			CC73GCH1H050B	CHIP C 5.0PF B	
C247			CC73GCH1H040B	CHIP C 4.0PF B	
C248			CC73GCH1H090B	CHIP C 9.0PF B	
C249,250			CK73GB1H103K	CHIP C 0.010UF K	
C251			CC73GCH1H050B	CHIP C 5.0PF B	K
C251			CC73GCH1H080B	CHIP C 8.0PF B	K2
C252			CC73GCH1H100C	CHIP C 10PF C	K
C252			CC73GCH1H120J	CHIP C 12PF J	K2
C253			CC73GCH1H050B	CHIP C 5.0PF B	K
C253			CC73GCH1H080B	CHIP C 8.0PF B	K2
C254			CK73GB1H103K	CHIP C 0.010UF K	
C255			CC73GCH1H100C	CHIP C 10PF C	
C256			CC73GCH1H090B	CHIP C 9.0PF B	
C257			CC73GCH1H070B	CHIP C 7.0PF B	
C260			CC73GCH1H040B	CHIP C 4.0PF B	K2
C260			CC73GCH1H050B	CHIP C 5.0PF B	K
C261			CK73GB1H471K	CHIP C 470PF K	K
C262			CK73GB1H103K	CHIP C 0.010UF K	
C263			CC73GCH1H101J	CHIP C 100PF J	K2
C263			CC73GCH1H120J	CHIP C 12PF J	K
C264			CK73GB1H103K	CHIP C 0.010UF K	
C265			CK73GB1H471K	CHIP C 470PF K	K2
C265,266			CK73GB1H471K	CHIP C 470PF K	K
C266			CC73GCH1H101J	CHIP C 100PF J	K2
C267			CK73GB1H103K	CHIP C 0.010UF K	
C268			CC73GCH1H101J	CHIP C 100PF J	

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

PARTS LIST

TX-RX UNIT (X57-7270-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
C269			CC73GCH1H120J	CHIP C 12PF J	
C270			CK73GB1E103K	CHIP C 0.010UF K	
C271			CK73GB1H102K	CHIP C 1000PF K	
C272			CK73GB1H103K	CHIP C 0.010UF K	
C273			CC73GCH1H090B	CHIP C 9.0PF B	
C274			CC73GCH1H080B	CHIP C 8.0PF B	
C275,276			CC73GCH1H040B	CHIP C 4.0PF B	
C277			CC73GCH1H090B	CHIP C 9.0PF B	
C278			CC73GCH1H100C	CHIP C 10PF C	
C279,280			CK73GB1H103K	CHIP C 0.010UF K	
C281			CC73GCH1H090B	CHIP C 9.0PF B	
C282			CC73GCH1H080B	CHIP C 8.0PF B	
C285,286			CK73GB1H102K	CHIP C 1000PF K	
C287			CK73GB1H103K	CHIP C 0.010UF K	
C288-290			CK73GB1C104K	CHIP C 0.10UF K	
C291			CC73GCH1H470J	CHIP C 47PF J	
C292			CC73GCH1H101J	CHIP C 100PF J	
C296			CK73GB1H103K	CHIP C 0.010UF K	
C298-300			CK73GB1C104K	CHIP C 0.10UF K	
C302			CK73GB1E103K	CHIP C 0.010UF K	
C304			CC73GCH1H470J	CHIP C 47PF J	
C305			CK73GB1E103K	CHIP C 0.010UF K	
C306			CC73GCH1H101J	CHIP C 100PF J	
C309-315			CK73GB1C104K	CHIP C 0.10UF K	
C316			CK73FB0J106K	CHIP C 10UF K	
C317			CC73GCH1H150J	CHIP C 15PF J	
C319			CC73GCH1H150J	CHIP C 15PF J	
C320			CK73GB1C104K	CHIP C 0.10UF K	
C321,322			CK73GB1E103K	CHIP C 0.010UF K	
C323			CC73GCH1H030B	CHIP C 3.0PF B	
C324			CK73GB1C104K	CHIP C 0.10UF K	
C325			CK73GB1E103K	CHIP C 0.010UF K	
C326			CS77AA0J100M	CHIP TNTL 10UF 6.3WV	
C327			CC73GCH1H181J	CHIP C 180PF J	
C328			CC73GCH1H270J	CHIP C 27PF J	
C329			CK73GB1C104K	CHIP C 0.10UF K	
C330			CC73GCH1H181J	CHIP C 180PF J	
C331			CK73GB1H152J	CHIP C 1500PF J	
C332			CK73GB1H102K	CHIP C 1000PF K	
C333			CK73GB1C333K	CHIP C 0.033UF K	
C334			CK73GB1C104K	CHIP C 0.10UF K	
C335			CS77AA0J220M	CHIP TNTL 22UF 6.3WV	
C336			CK73GB1H102K	CHIP C 1000PF K	
C337,338			CK73GB1C104K	CHIP C 0.10UF K	
C340			CK73GB1H102K	CHIP C 1000PF K	
C341			CK73GB1C104K	CHIP C 0.10UF K	
C342			CK73GB1A224K	CHIP C 0.22UF K	
C400			CK73GB1H471K	CHIP C 470PF K	
C401			CK73GB1E103K	CHIP C 0.010UF K	
C402,403			CC73GCH1H101J	CHIP C 100PF J	
C404			CK73GB1C104K	CHIP C 0.10UF K	
C406			CK73GB1E103K	CHIP C 0.010UF K	
C407			CC73GCH1H101J	CHIP C 100PF J	
C408-410			CK73GB1H471K	CHIP C 470PF K	
C412			CC73GCH1H101J	CHIP C 100PF J	K
C412,413			CC73GCH1H101J	CHIP C 100PF J	K2
C413,414			CC73GCH1H470J	CHIP C 47PF J	K
C414			CC73GCH1H470J	CHIP C 47PF J	K2
C415			C92-0863-05	CHIP TNTL 0.047UF 35WV	
C416			CS77AA1E010M	CHIP TNTL 1.0UF 25WV	K

Ref. No.	Address	New parts	Parts No.	Description	Destination
C416			CS77CA1ER47M	CHIP TNTL 0.47UF 25WV	K2
C417			C92-0863-05	CHIP TNTL 0.047UF 35WV	
C418			CK73GB1C104K	CHIP C 0.10UF K	
C419			CC73GCH1H470J	CHIP C 47PF J	
C420			CK73GB1H471K	CHIP C 470PF K	
C423			CK73GB1H103K	CHIP C 0.010UF K	
C424			CK73GB1C104K	CHIP C 0.10UF K	
C425			CC73GCH1H101J	CHIP C 100PF J	
C427			CK73GB1H102K	CHIP C 1000PF K	
C430			CK73GB1H471K	CHIP C 470PF K	
C431			CK73GB1H103K	CHIP C 0.010UF K	
C432			CK73FB1C334K	CHIP C 0.33UF K	
C433			CK73GB1C104K	CHIP C 0.10UF K	
C434			CK73GB1H471K	CHIP C 470PF K	
C435			CC73GCH1H080B	CHIP C 8.0PF B	K2
C436			CC73GCH1H060B	CHIP C 6.0PF B	K2
C436			CC73GCH1H270J	CHIP C 27PF J	K
C437			CC73GCH1H470J	CHIP C 47PF J	
C438			CC73GCH1H050B	CHIP C 5.0PF B	K2
C438,439			CC73GCH1H2R5B	CHIP C 2.5PF B	K
C439			CC73GCH1H470J	CHIP C 47PF J	K2
C441			CC73GCH1H020B	CHIP C 2.0PF B	K
C441			CC73GCH1H1R5B	CHIP C 1.5PF B	K2
C442			CC73GCH1H020B	CHIP C 2.0PF B	K2
C442			CC73GCH1H030B	CHIP C 3.0PF B	K
C443			CC73GCH1H030B	CHIP C 3.0PF B	K2
C443			CC73GCH1H050B	CHIP C 5.0PF B	K
C444,445			CK73GB1E105K	CHIP C 1.0UF K	
C446			CS77AB21C4R7M	CHIP TNTL 4.7UF 16WV	
C447			CC73GCH1H101J	CHIP C 100PF J	
C448,449			CK73GB1C104K	CHIP C 0.10UF K	
C450			CK73GF1A105Z	CHIP C 1.0UF Z	
C451-456			CK73GB1H471K	CHIP C 470PF K	
C457			CC73GCH1H020B	CHIP C 2.0PF B	K2
C457			CC73GCH1H3R5B	CHIP C 3.5PF B	K
C458			CC73GCH1H010B	CHIP C 1.0PF B	K
C458			CC73GCH1H1R5B	CHIP C 1.5PF B	K2
C459			CC73GCH1H101J	CHIP C 100PF J	K
C459			CC73GCH1H470J	CHIP C 47PF J	K2
C460			CK73GB1E105K	CHIP C 1.0UF K	
C461			CC73GCH1H181J	CHIP C 180PF J	
C463			CK73GB1H471K	CHIP C 470PF K	
C464			CC73GCH1H101J	CHIP C 100PF J	
C465			CC73GCH1H220J	CHIP C 22PF J	
C466-468			CK73GB1E105K	CHIP C 1.0UF K	
C470-472			CK73GB1H471K	CHIP C 470PF K	
C474			CK73GB1H103K	CHIP C 0.010UF K	
C475			C93-0787-05	CERAMIC 0.1UF 50WV	
C477			CK73GB1H103K	CHIP C 0.010UF K	
C478			CS77AC1D220M	CHIP TNTL 22UF 20WV	
C479			CK73GB1H471K	CHIP C 470PF K	
C480			CS77AC1D220M	CHIP TNTL 22UF 20WV	
C482,483			CK73GB1H103K	CHIP C 0.010UF K	
C484			CK73GB1H471K	CHIP C 470PF K	
C485			CC73GCH1H101J	CHIP C 100PF J	K
C485			CC73GCH1H270G	CHIP C 27PF G	K2
C487			CK73GB1H471K	CHIP C 470PF K	
C488			CC73GCH1H120G	CHIP C 12PF G	K
C488			CC73GCH1H150G	CHIP C 15PF G	K2
C489			CC73GCH1H330G	CHIP C 33PF G	

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PARTS LIST

TX-RX UNIT (X57-7270-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
C490			CS77AA1A100M	CHIP TNTL 10UF 10WV	
C491			CC73GCH1H0R5B	CHIP C 0.5PF B	K2
C491			CC73GCH1H010B	CHIP C 1.0PF B	K
C492			CK73GB1H471K	CHIP C 470PF K	K
C492			CK73GB1H681K	CHIP C 680PF K	K2
C494			CC73GCH1H070B	CHIP C 7.0PF B	
C495			CC73GCH1H1R5B	CHIP C 1.5PF B	
C496			CC73GCH1H101J	CHIP C 100PF J	K
C496			CC73GCH1H390J	CHIP C 39PF J	K2
C497			CC73GCH1H0R5B	CHIP C 0.5PF B	K2
C497			CC73GCH1H1R5B	CHIP C 1.5PF B	K
C499			CC73GCH1H090B	CHIP C 9.0PF B	K2
C499			CC73GCH1H100C	CHIP C 10PF C	K
C500,501			CK73GB1H471K	CHIP C 470PF K	
C502			CC73GCH1H020B	CHIP C 2.0PF B	K
C502			CC73GCH1H2R5B	CHIP C 2.5PF B	K2
C503			CS77AB21A220M	CHIP TNTL 22UF 10WV	
C504			CS77AC1A470M	CHIP TNTL 47UF 10WV	
C505			CK73GB1H103K	CHIP C 0.010UF K	
C506			CK73GB1H471K	CHIP C 470PF K	
C508			CK73GB1H471K	CHIP C 470PF K	
C509			CC73GCH1H050B	CHIP C 5.0PF B	
C510			CC73GCH1H040B	CHIP C 4.0PF B	
C511			CC73GCH1H030B	CHIP C 3.0PF B	
C512			CC73GCH1H0R5B	CHIP C 0.5PF B	
C513			CK73GB1H471K	CHIP C 470PF K	
C514			CC73GCH1H060B	CHIP C 6.0PF B	K
C514			CC73GCH1H070B	CHIP C 7.0PF B	K2
C515			CC73GCH1H0R5B	CHIP C 0.5PF B	
C516			CC73GCH1H060B	CHIP C 6.0PF B	
C517			CC73GCH1H050B	CHIP C 5.0PF B	
C518			CC73GCH1H0R5B	CHIP C 0.5PF B	
C519,520			CK73GB1H471K	CHIP C 470PF K	
C521			CC73GCH1H070B	CHIP C 7.0PF B	K
C521			CC73GCH1H090B	CHIP C 9.0PF B	K2
C522			CC73GCH1H070B	CHIP C 7.0PF B	K2
C522,523			CC73GCH1H060B	CHIP C 6.0PF B	K
C523			CC73GCH1H050B	CHIP C 5.0PF B	K2
C524			CC73GCH1H0R5B	CHIP C 0.5PF B	
C525			CK73GB1H471K	CHIP C 470PF K	
C527			CC73GCH1H050B	CHIP C 5.0PF B	K2
C527			CC73GCH1H060B	CHIP C 6.0PF B	K
C529			CK73GB1H471K	CHIP C 470PF K	
C530			CC73GCH1H040B	CHIP C 4.0PF B	K
C530			CC73GCH1H050B	CHIP C 5.0PF B	K2
C531-534			CK73GB1H471K	CHIP C 470PF K	
C535			CC73GCH1H060B	CHIP C 6.0PF B	
C536			CK73GB1H471K	CHIP C 470PF K	
C537			CC73GCH1H050B	CHIP C 5.0PF B	K
C537			CC73GCH1H060B	CHIP C 6.0PF B	K2
C538,539			CK73GB1H471K	CHIP C 470PF K	
C540			CC73GCH1H101J	CHIP C 100PF J	
C541,542			CK73GB1H471K	CHIP C 470PF K	
C600			CK73GB1H471K	CHIP C 470PF K	
C601			C92-0881-05	ELECTRO 47UF 10WV	
C602,603			CK73GB1H471K	CHIP C 470PF K	
C604			CS77CA1C010M	CHIP TNTL 1.0UF 16WV	
C605			CK73GB1H103K	CHIP C 0.010UF K	
C606			C92-0887-05	ELECTRO 1.0UF 50WV	
C607,608			CK73GB1C104K	CHIP C 0.10UF K	

Ref. No.	Address	New parts	Parts No.	Description	Destination
C609			C92-0870-05	CHIP TNTL 4.7UF 16WV	
C610-620			CK73GB1H471K	CHIP C 470PF K	
C621			CK73GB1H102K	CHIP C 1000PF K	
C622-630			CK73GB1H471K	CHIP C 470PF K	
C631,632			CK73GB1H102K	CHIP C 1000PF K	
C634			CC73GCH1H1R5B	CHIP C 1.5PF B	K2
C634			CC73GCH1H470J	CHIP C 47PF J	K
C635			CC73GCH1H020B	CHIP C 2.0PF B	
C636,637			CK73GB1C393K	CHIP C 0.039UF K	K
C638			CK73GB1C683K	CHIP C 0.068UF K	K
C640			CC73GCH1H050B	CHIP C 5.0PF B	K
C640			CC73GCH1H120J	CHIP C 12PF J	K2
C641			CK73GB1H471K	CHIP C 470PF K	
C642			CC73GCH1H050B	CHIP C 5.0PF B	K
C642			CC73GCH1H120J	CHIP C 12PF J	K2
C644-647			CK73GB1H471K	CHIP C 470PF K	
CN150			E04-0154-05	PIN SOCKET	
CN151			E04-0154-05	PIN SOCKET	
CN200			E04-0154-05	PIN SOCKET	
CN202			E41-2735-05	PIN ASSY	
CN207			E41-2735-05	PIN ASSY	
CN600			E40-6438-05	FLAT CABLE CONNECTOR	
CN601			E40-6429-05	FLAT CABLE CONNECTOR	
W400			E37-1235-05	JUMPER WIRE	
CF200			L72-1018-05	CERAMIC FILTER	
CF201,202			L72-1016-05	CERAMIC FILTER	
CF203			L72-1009-05	CERAMIC FILTER	
CF204			L72-1018-05	CERAMIC FILTER	
L150,151			L40-3975-92	SMALL FIXED INDUCTOR(39NH)	
L152			L40-5663-92	SMALL FIXED INDUCTOR(5.6NH)	
L153			L40-2275-92	SMALL FIXED INDUCTOR(22NH)	K2
L153,154			L40-1875-92	SMALL FIXED INDUCTOR(18NH)	K
L154			L40-1875-92	SMALL FIXED INDUCTOR(18NH)	K2
L200-204			L34-4604-05	AIR-CORE COIL	
L205			L41-1878-08	SMALL FIXED INDUCTOR(18NH)	
L206			L92-0140-05	CHIP FERRITE	
L207-210			L34-4565-05	AIR-CORE COIL	K
L207-210			L34-4566-05	AIR-CORE COIL	K2
L211,212			L41-1588-08	SMALL FIXED INDUCTOR(150NH)	
L214,215			L39-1498-05	TOROIDAL COIL	
L216			L92-0140-05	CHIP FERRITE	
L217,218			L34-4748-05	COIL	
L219			L39-1498-05	TOROIDAL COIL	
L220,221			L41-1578-08	SMALL FIXED INDUCTOR(15NH)	K
L220,221			L41-2278-08	SMALL FIXED INDUCTOR(22NH)	K2
L222,223			L34-4749-05	COIL	
L224			L41-1878-08	SMALL FIXED INDUCTOR(18NH)	K
L224			L41-3378-08	SMALL FIXED INDUCTOR(33NH)	K2
L225			L40-6881-37	SMALL FIXED INDUCTOR(0.680UH)	
L226			L41-1008-08	SMALL FIXED INDUCTOR(10UH)	
L227,228			L34-4748-05	COIL	
L229,230			L34-4749-05	COIL	
L231			L41-1008-08	SMALL FIXED INDUCTOR(10UH)	
L232			L40-5681-86	SMALL FIXED INDUCTOR(0.56UH)	
L234			L34-4725-05	COIL	
L401			L40-8265-92	SMALL FIXED INDUCTOR(8.2NH)	
L402,403			L41-1578-14	SMALL FIXED INDUCTOR(15NH)	K2
L403,404			L41-4763-14	SMALL FIXED INDUCTOR(4.7NH)	K

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

PARTS LIST

TX-RX UNIT (X57-7270-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
L405			L41-3363-14	SMALL FIXED INDUCTOR(3.3NH)	K
L405			L41-6868-14	SMALL FIXED INDUCTOR(6.8NH)	K2
L406			L33-1462-05	SMALL FIXED INDUCTOR	
L407			L41-3363-14	SMALL FIXED INDUCTOR(3.3NH)	K
L407			L41-6868-14	SMALL FIXED INDUCTOR(6.8NH)	K2
L408-417			L92-0140-05	CHIP FERRITE	
L418-423			L41-1098-08	SMALL FIXED INDUCTOR(1.0UH)	
L424			L92-0140-05	CHIP FERRITE	
L425-430			L41-1098-08	SMALL FIXED INDUCTOR(1.0UH)	
L431			L34-4607-05	AIR-CORE COIL	K
L431			L34-4608-05	AIR-CORE COIL	K2
L432,433			L41-1098-08	SMALL FIXED INDUCTOR(1.0UH)	
L434			L34-4608-05	AIR-CORE COIL	K
L434			L34-4609-05	AIR-CORE COIL	K2
L435,436			L41-1098-08	SMALL FIXED INDUCTOR(1.0UH)	
L437			L34-4608-05	AIR-CORE COIL	K
L437			L34-4609-05	AIR-CORE COIL	K2
L438,439			L41-1098-08	SMALL FIXED INDUCTOR(1.0UH)	
L441			L40-2775-92	SMALL FIXED INDUCTOR(27NH)	K2
L441-444			L40-1875-92	SMALL FIXED INDUCTOR(18NH)	K
L442,443			L40-1875-92	SMALL FIXED INDUCTOR(18NH)	K2
L444			L40-1575-92	SMALL FIXED INDUCTOR(15NH)	K2
X200			L77-1961-05	VCXO (16.8MHZ)	
X400			L77-3013-05	TCXO (16.8MHZ)	
XF200			L71-0625-05	CRYSTAL FILTER (49.95MHZ WIDE)	
XF201			L71-0626-05	CRYSTAL FILTER (49.95MHZ NARROW)	
R150,151			RK73GB2A821J	CHIP R 820 J 1/10W	
R152			RK73GB2A5R6J	CHIP R 5.6 J 1/10W	
R154			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R155			RK73GB2A123J	CHIP R 12K J 1/10W	
R156			RK73FB2B470J	CHIP R 47 J 1/8W	
R158			RK73FB2B101J	CHIP R 100 J 1/8W	
R159			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R160			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R161			RK73GB2A101J	CHIP R 100 J 1/10W	
R162			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R163			RK73FB2B100J	CHIP R 10 J 1/8W	
R165			RK73FB2B100J	CHIP R 10 J 1/8W	
R166,167			RK73FB2B271J	CHIP R 270 J 1/8W	
R168			RK73FB2B180J	CHIP R 18 J 1/8W	K2
R168			RK73FB2B220J	CHIP R 22 J 1/8W	K
R201-204			RK73GB2A104J	CHIP R 100K J 1/10W	
R205,206			RK73GB2A183J	CHIP R 18K J 1/10W	
R208			RK73GB2A221J	CHIP R 220 J 1/10W	
R209,210			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R211-215			RK73GB2A104J	CHIP R 100K J 1/10W	
R216			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R219			RK73GB2A821J	CHIP R 820 J 1/10W	K2
R220			RK73GB2A000J	CHIP R 0.0 J 1/10W	K
R220			RK73GB2A5R6J	CHIP R 5.6 J 1/10W	K2
R221			RK73GB2A821J	CHIP R 820 J 1/10W	K2
R222			RK73GB2A470J	CHIP R 47 J 1/10W	
R223			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R225			RK73GB2A390J	CHIP R 39 J 1/10W	
R226			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R227			RK73GB2A470J	CHIP R 47 J 1/10W	
R228			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R229,230			RK73GB2A102J	CHIP R 1.0K J 1/10W	

Ref. No.	Address	New parts	Parts No.	Description	Destination
R231			RK73FB2B181J	CHIP R 180 J 1/8W	K
R231			RK73FB2B271J	CHIP R 270 J 1/8W	K2
R232			RK73FB2B180J	CHIP R 18 J 1/8W	K2
R232			RK73FB2B330J	CHIP R 33 J 1/8W	K
R233			RK73FB2B181J	CHIP R 180 J 1/8W	K
R233			RK73FB2B271J	CHIP R 270 J 1/8W	K2
R234			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R235			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R236			RK73GB2A221J	CHIP R 220 J 1/10W	K
R236			RK73GB2A680J	CHIP R 68 J 1/10W	K2
R237			RK73GB2A103J	CHIP R 10K J 1/10W	K
R237			RK73GB2A561J	CHIP R 560 J 1/10W	K2
R238			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R239			RK73GB2A181J	CHIP R 180 J 1/10W	K
R239			RK73GB2A271J	CHIP R 270 J 1/10W	K2
R240			RK73GB2A180J	CHIP R 18 J 1/10W	K2
R240			RK73GB2A330J	CHIP R 33 J 1/10W	K
R241			RK73GB2A181J	CHIP R 180 J 1/10W	K
R241			RK73GB2A271J	CHIP R 270 J 1/10W	K2
R242			RK73GB2A330J	CHIP R 33 J 1/10W	K2
R242			RK73GB2A331J	CHIP R 330 J 1/10W	K
R243			RK73GB2A183J	CHIP R 18K J 1/10W	K
R243			RK73GB2A392J	CHIP R 3.9K J 1/10W	K2
R244			RK73GB2A560J	CHIP R 56 J 1/10W	
R245			RK73GB2A270J	CHIP R 27 J 1/10W	
R246			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R247,248			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R249			RK73GB2A182J	CHIP R 1.8K J 1/10W	
R250			RK73GB2A153J	CHIP R 15K J 1/10W	
R251			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R252			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R253			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R254			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R255			RK73GB2A473J	CHIP R 47K J 1/10W	
R256			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R258			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R261			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R264			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R265			RK73GB2A104J	CHIP R 100K J 1/10W	
R266			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R268,269			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R271			RK73GB2A104J	CHIP R 100K J 1/10W	
R272			RK73GB2A473J	CHIP R 47K J 1/10W	
R274			RK73GB2A182J	CHIP R 1.8K J 1/10W	
R275			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R276			RK73GB2A182J	CHIP R 1.8K J 1/10W	
R277			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R284			RK73GB2A103J	CHIP R 10K J 1/10W	
R287,288			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R293,294			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R296			RK73GB2A331J	CHIP R 330 J 1/10W	
R297			RK73GB2A470J	CHIP R 47 J 1/10W	
R298			RK73GB2A681J	CHIP R 680 J 1/10W	
R299			RK73GB2A822J	CHIP R 8.2K J 1/10W	
R300			RK73GB2A470J	CHIP R 47 J 1/10W	
R301			RK73GB2A684J	CHIP R 680K J 1/10W	
R304-311			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R312			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R313,314			RK73GB2A220J	CHIP R 22 J 1/10W	

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

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PARTS LIST

TX-RX UNIT (X57-7270-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
R315			RK73GB2A104J	CHIP R 100K J 1/10W	
R316			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R317			RK73GB2A273J	CHIP R 27K J 1/10W	
R318			RK73GB2A470J	CHIP R 47 J 1/10W	
R319			RK73GB2A681J	CHIP R 680 J 1/10W	
R320			RK73GB2A331J	CHIP R 330 J 1/10W	
R321			RK73GB2A274J	CHIP R 270K J 1/10W	
R323			RK73GB2A333J	CHIP R 33K J 1/10W	
R324,325			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R326			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R327,328			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R329			RK73GB2A273J	CHIP R 27K J 1/10W	
R330			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R333			RK73GB2A224J	CHIP R 220K J 1/10W	
R334			RK73GB2A471J	CHIP R 470 J 1/10W	
R335			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R336			RK73GB2A224J	CHIP R 220K J 1/10W	
R337			RK73GB2A683J	CHIP R 68K J 1/10W	
R338			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R339			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R340			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R341			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R342			RK73GB2A104J	CHIP R 100K J 1/10W	
R344			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R345			RK73GB2A473J	CHIP R 47K J 1/10W	
R400			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R401			RK73GB2A104J	CHIP R 100K J 1/10W	
R402			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R403			RK73GB2A563J	CHIP R 56K J 1/10W	
R404			RK73GB2A101J	CHIP R 100 J 1/10W	
R405			RK73GB2A103J	CHIP R 10K J 1/10W	
R406			RK73GB2A104J	CHIP R 100K J 1/10W	
R407-410			RK73GB2A101J	CHIP R 100 J 1/10W	
R411			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R412-414			RK73GB2A101J	CHIP R 100 J 1/10W	
R415			RK73GB2A103J	CHIP R 10K J 1/10W	
R416			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R417			RK73GB2A103J	CHIP R 10K J 1/10W	
R418			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R419			RK73GB2A103J	CHIP R 10K J 1/10W	K2
R419			RK73GB2A472J	CHIP R 4.7K J 1/10W	K
R420			RK73GB2A101J	CHIP R 100 J 1/10W	K2
R420			RK73GB2A151J	CHIP R 150 J 1/10W	K
R422			RK73GB2A122J	CHIP R 1.2K J 1/10W	K
R422			RK73GB2A392J	CHIP R 3.9K J 1/10W	K2
R423			RK73GB2A103J	CHIP R 10K J 1/10W	K2
R423			RK73GB2A472J	CHIP R 4.7K J 1/10W	K
R424			RK73GB2A330J	CHIP R 33 J 1/10W	
R425			RK73GB2A221J	CHIP R 220 J 1/10W	K
R426			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R427			RK73GB2A470J	CHIP R 47 J 1/10W	
R428			RK73GB2A101J	CHIP R 100 J 1/10W	K
R428			RK73GB2A102J	CHIP R 1.0K J 1/10W	K2
R429			RN73GH1J470D	CHIP R 47 D 1/16W	
R430			RN73GH1J681D	CHIP R 680 D 1/16W	
R431			RK73GB2A000J	CHIP R 0.0 J 1/10W	K
R431			RK73GB2A102J	CHIP R 1.0K J 1/10W	K2
R432			RK73GB2A561J	CHIP R 560 J 1/10W	
R433			RK73GB2A101J	CHIP R 100 J 1/10W	K

Ref. No.	Address	New parts	Parts No.	Description	Destination
R433			RK73GB2A222J	CHIP R 2.2K J 1/10W	K2
R434			RN73GH1J331D	CHIP R 330 D 1/16W	
R436,437			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R439			RK73GB2A151J	CHIP R 150 J 1/10W	
R440			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R441			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R444			RK73GB2A822J	CHIP R 8.2K J 1/10W	
R445-447			RK73GB2A101J	CHIP R 100 J 1/10W	
R448			RK73GB2A154J	CHIP R 150K J 1/10W	
R450			RK73GB2A330J	CHIP R 33 J 1/10W	
R451			RK73GB2A473J	CHIP R 47K J 1/10W	
R452			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R453			RK73GB2A100J	CHIP R 10 J 1/10W	
R454			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R455			RK73GB2A104J	CHIP R 100K J 1/10W	
R456			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R457			RK73GB2A104J	CHIP R 100K J 1/10W	
R458			RN73GH1J104D	CHIP R 100K D 1/16W	
R459			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R460			RK73GB2A123J	CHIP R 12K J 1/10W	
R461			RN73GH1J222D	CHIP R 2.2K D 1/16W	
R462			RK73GB2A224J	CHIP R 220K J 1/10W	
R463			RK73GB2A124J	CHIP R 120K J 1/10W	
R464			RN73GH1J334D	CHIP R 330K D 1/16W	
R465			RK73GB2A100J	CHIP R 10 J 1/10W	
R466,467			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R468,469			RK73GB2A104J	CHIP R 100K J 1/10W	
R470			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R471			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R472			RK73GB2A106J	CHIP R 10M J 1/10W	
R473			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R474			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R475			RK73GB2A473J	CHIP R 47K J 1/10W	
R476,477			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R478			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R479			RN73GH1J391D	CHIP R 390 D 1/16W	K
R479			RN73GH1J471D	CHIP R 470 D 1/16W	K2
R480			RK73GB2A274J	CHIP R 270K J 1/10W	
R481			RN73GH1J391D	CHIP R 390 D 1/16W	K
R481			RN73GH1J561D	CHIP R 560 D 1/16W	K2
R482			RN73GH1J271D	CHIP R 270 D 1/16W	K2
R482			RN73GH1J471D	CHIP R 470 D 1/16W	K
R483			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R484			RK73GB2A100J	CHIP R 10 J 1/10W	
R485			RK73FB2B000J	CHIP R 0.0 J 1/8W	
R486			RN73GH1J151D	CHIP R 150 D 1/16W	K
R486			RN73GH1J181D	CHIP R 180 D 1/16W	K2
R487			RK73GB2A000J	CHIP R 0.0 J 1/10W	K2
R487			RN73GH1J101D	CHIP R 100 D 1/16W	K
R488			RK73GB2A104J	CHIP R 100K J 1/10W	
R489			RN73GH1J221D	CHIP R 220 D 1/16W	K
R489			RN73GH1J271D	CHIP R 270 D 1/16W	K2
R490			RK73GB2A000J	CHIP R 0.0 J 1/10W	K2
R490			RN73GH1J101D	CHIP R 100 D 1/16W	K
R491			RK73GB2A224J	CHIP R 220K J 1/10W	
R493			RN73GH1J221D	CHIP R 220 D 1/16W	K
R493			RN73GH1J331D	CHIP R 330 D 1/16W	K2
R494			RK73GB2A000J	CHIP R 0.0 J 1/10W	K2
R494			RN73GH1J101D	CHIP R 100 D 1/16W	K
R495			RK73GB2A471J	CHIP R 470 J 1/10W	K

PARTS LIST

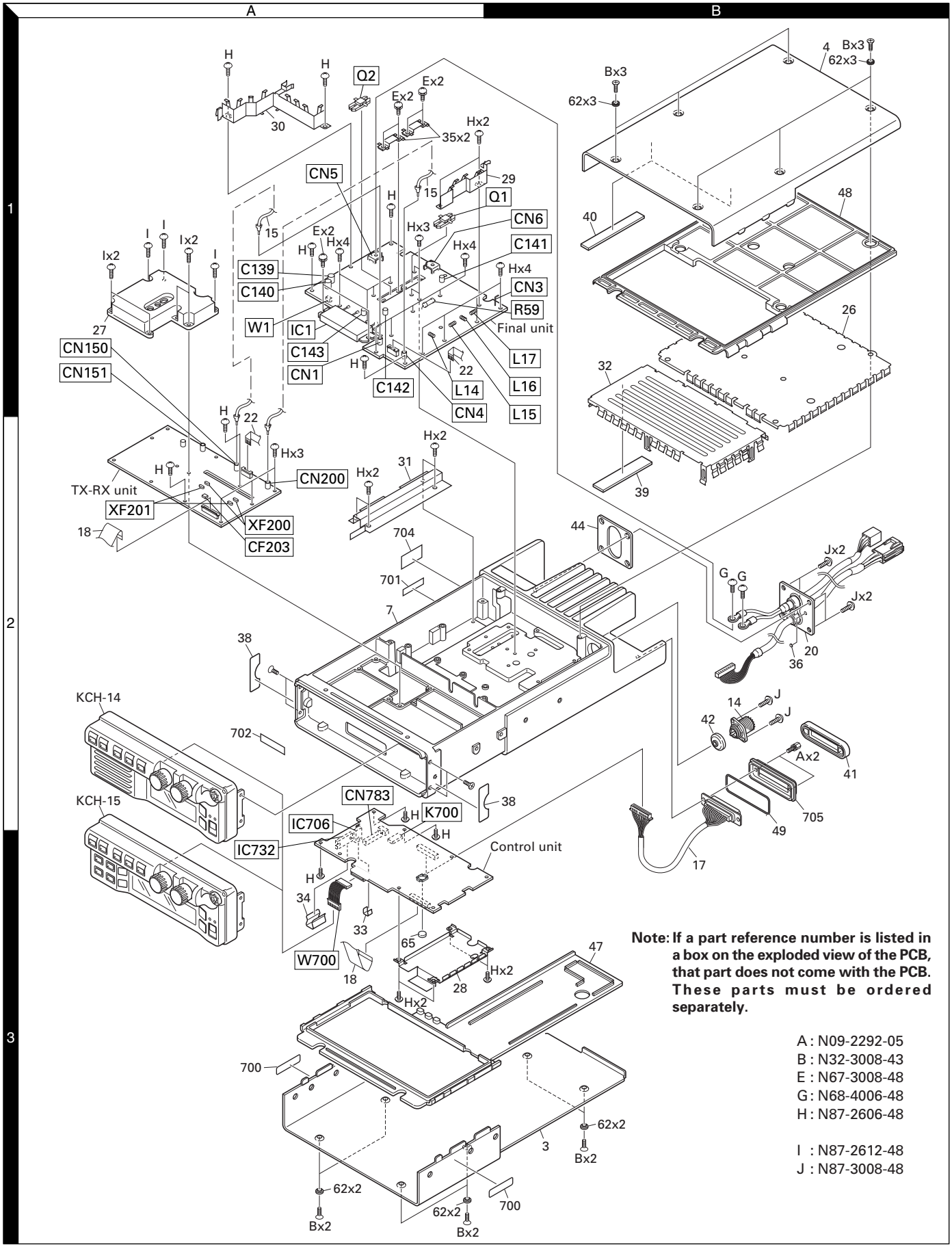
TX-RX UNIT (X57-7270-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
R496			RK73GB2A000J	CHIP R 0.0 J 1/10W	K2
R496			RK73GB2A120J	CHIP R 12 J 1/10W	K
R497			RK73GB2A471J	CHIP R 470 J 1/10W	K
R498			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R499			RK73GB2A223J	CHIP R 22K J 1/10W	K2
R499			RK73GB2A273J	CHIP R 27K J 1/10W	K
R500			RK73GB2A223J	CHIP R 22K J 1/10W	K
R500,501			RK73GB2A103J	CHIP R 10K J 1/10W	K2
R501			RK73GB2A153J	CHIP R 15K J 1/10W	K
R502			RK73GB2A330J	CHIP R 33 J 1/10W	
R504			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R505			RK73GB2A151J	CHIP R 150 J 1/10W	K
R505			RK73GB2A471J	CHIP R 470 J 1/10W	K2
R506			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R507			RK73GB2A101J	CHIP R 100 J 1/10W	K2
R507			RK73GB2A151J	CHIP R 150 J 1/10W	K
R508			RK73GB2A331J	CHIP R 330 J 1/10W	
R509			RK73GB2A330J	CHIP R 33 J 1/10W	
R510			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R511			RK73GB2A101J	CHIP R 100 J 1/10W	
R512			RK73GB2A221J	CHIP R 220 J 1/10W	K
R513,514			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R600			RK73GB2A473J	CHIP R 47K J 1/10W	
R601			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R602			RK73GB2A473J	CHIP R 47K J 1/10W	
R603			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R604,605			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R606			RK73GB2A273J	CHIP R 27K J 1/10W	
R607,608			RK73GB2A000J	CHIP R 0.0 J 1/10W	K2
R607,608			RK73GB2A391J	CHIP R 390 J 1/10W	K
R609			RK73GB2A181J	CHIP R 180 J 1/10W	K
R610			RN73GH1J183D	CHIP R 18K D 1/16W	
R611			RK73GB2A000J	CHIP R 0.0 J 1/10W	
D200-203			1SV291F	VARIABLE CAPACITANCE DIODE	
D204-207			1SV286F	VARIABLE CAPACITANCE DIODE	
D208-215			HVC131	DIODE	
D216			RB706F-40	DIODE	
D217			1SS388F	DIODE	
D400			MA2S111-F	DIODE	
D401			DA221	DIODE	
D402			1SV282-F	VARIABLE CAPACITANCE DIODE	K2
D402			1SV305F	VARIABLE CAPACITANCE DIODE	K
D403			HVC376B	VARIABLE CAPACITANCE DIODE	K
D405			BB664	VARIABLE CAPACITANCE DIODE	K
D405-408			1SV282-F	VARIABLE CAPACITANCE DIODE	K2
D406,407			1SV282-F	VARIABLE CAPACITANCE DIODE	K
D408			1SV305F	VARIABLE CAPACITANCE DIODE	K
D409			HVC376B	VARIABLE CAPACITANCE DIODE	K
D411-413			1SV282-F	VARIABLE CAPACITANCE DIODE	K2
D411,412			1SV282-F	VARIABLE CAPACITANCE DIODE	K
D413			1SV305F	VARIABLE CAPACITANCE DIODE	K
D414			HVC376B	VARIABLE CAPACITANCE DIODE	K
D416,417			1SV282-F	VARIABLE CAPACITANCE DIODE	
D418			1SV278F	VARIABLE CAPACITANCE DIODE	
D419,420			HVC131	DIODE	
D421,422			1SV282-F	VARIABLE CAPACITANCE DIODE	
IC200			SPM5001	MOS-IC	
IC201-203			TC7W53FK(F)	MOS-IC	
IC204			TC75S51F-F	MOS-IC	

Ref. No.	Address	New parts	Parts No.	Description	Destination
IC205-207			TC7W53FK(F)	MOS-IC	
IC209			TA31137FNG	MOS-IC	
IC210			TC7WU04FK-F	MOS-IC	
IC211			TC7S66FUF	MOS-IC	
IC400			LMX2352TMX/NP	ANALOGUE IC	
IC401			MCP41100T	ANALOGUE IC	
IC402			XC9101D09AKR	ANALOGUE IC	
IC403			LMC7101BIM5	MOS-IC	
IC600			BU4094BCFV	MOS-IC	
IC601			TA7805FQ	MOS-IC	
Q150,151			2SC3357-A(RF)	TRANSISTOR	
Q200			2SC3357-A(RF)	TRANSISTOR	
Q201			DTC114EE	DIGITAL TRANSISTOR	
Q202			DTA114EE	DIGITAL TRANSISTOR	
Q203,204			2SC3357-A(RF)	TRANSISTOR	
Q205			2SC4215-F(Y)	TRANSISTOR	
Q207			2SC5108(Y)F	TRANSISTOR	
Q208			DTC114EE	DIGITAL TRANSISTOR	
Q209			DTA144EE	DIGITAL TRANSISTOR	
Q210			SSM3K15TE(F)	FET	
Q211			2SC4617(S)	TRANSISTOR	
Q400			2SK879(Y)F	FET	
Q401			DTC144EE	DIGITAL TRANSISTOR	
Q402			2SA1832(GR)F	TRANSISTOR	
Q403			2SC5108(Y)F	TRANSISTOR	
Q404			RN47A4-F	TRANSISTOR	
Q405			2SJ347F	FET	
Q406			SSM5H01TU	FET	
Q407			RN47A4-F	TRANSISTOR	
Q408			2SJ347F	FET	
Q409,410			RN47A4-F	TRANSISTOR	
Q411,412			2SC4116(GR)F	TRANSISTOR	
Q413-415			2SK508NV(52K)	FET	
Q416-418			2SC5108(Y)F	TRANSISTOR	
Q600			DTC114EE	DIGITAL TRANSISTOR	
Q601			2SB1132(Q,R)	TRANSISTOR	
Q602			DTC114EE	DIGITAL TRANSISTOR	
Q603			2SB1132(Q,R)	TRANSISTOR	

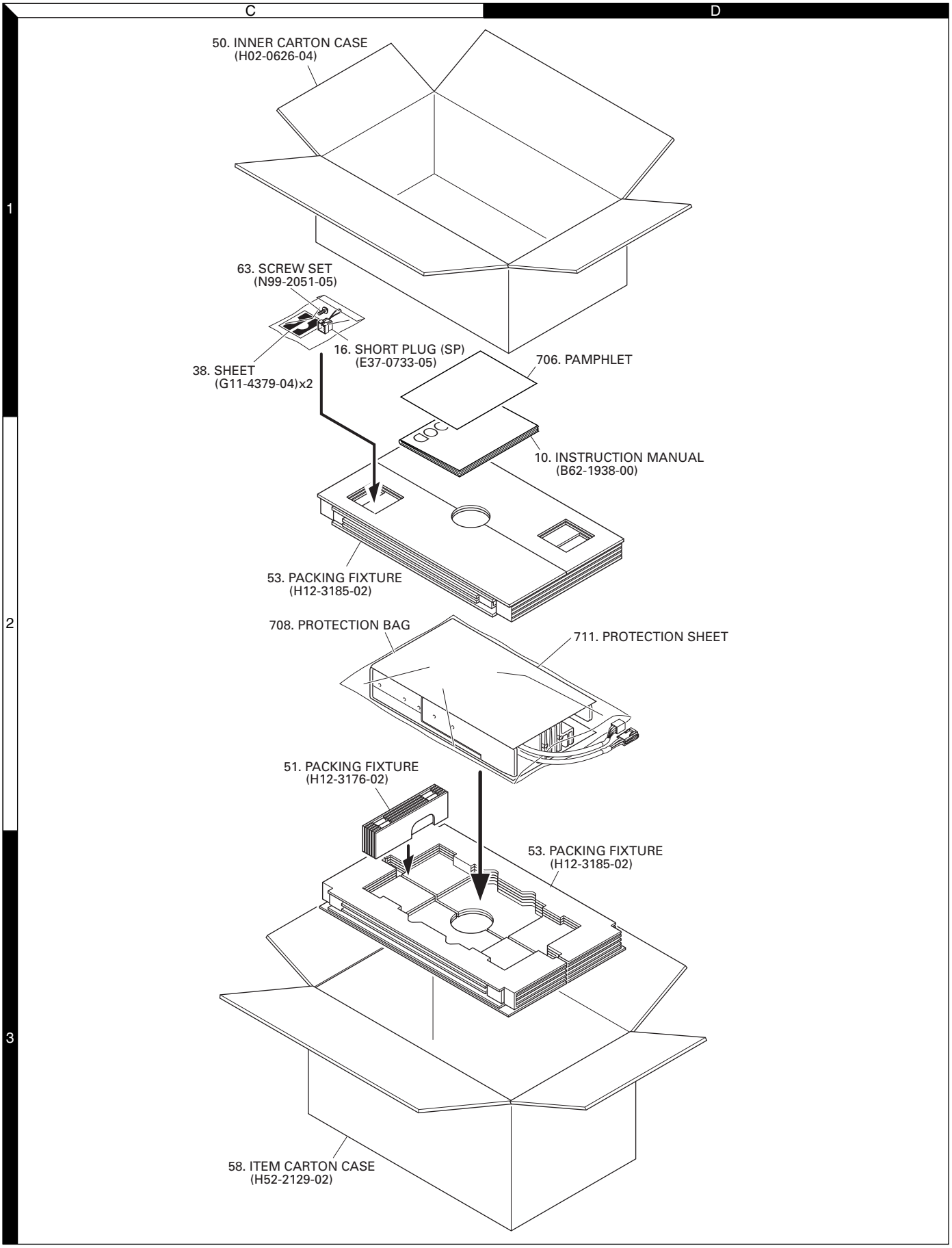
TK-5810H(B)

EXPLODED VIEW (TK-5810H(B))



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

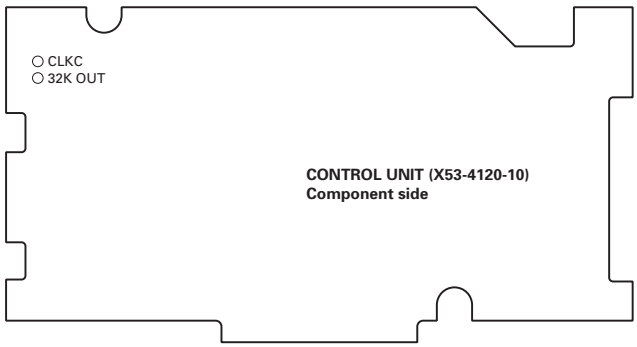
PACKING (TK-5810H(B))

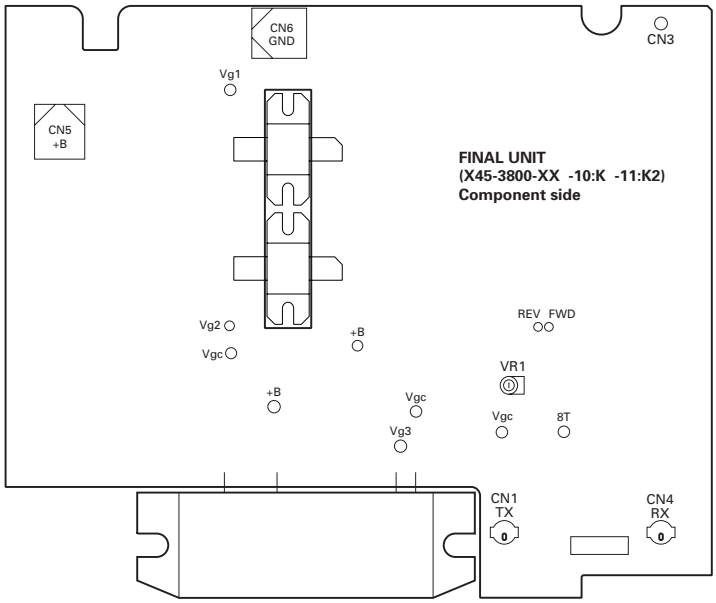


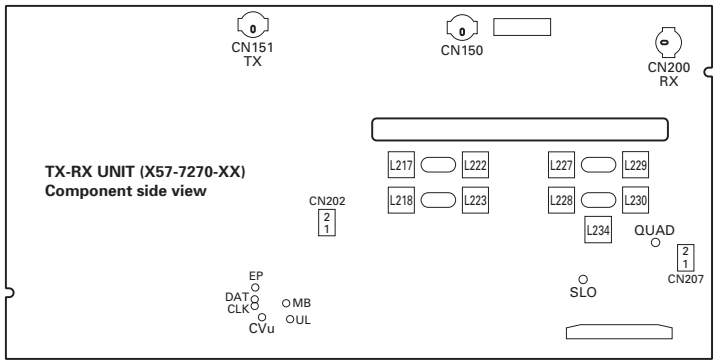
Parts with the exploded numbers larger than 700 are not supplied.

ADJUSTMENT

Adjustment Points (For other adjustments, refer to TK-5810(B)(B51-8780-00 service manual).)







ADJUSTMENT

Transmitter Section (For other adjustments, refer to TK-5810(B)(B51-8780-00 service manual).)

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
2. Max power adjust •TK-5810H K	[Panel test mode] 1) CH-Sig:1-1 PTT:ON	Power meter Ammeter			Final	VR1	107W	±2W
•TK-5810H K2	1) CH-Sig:1-1 PTT:ON							
3. High power adjust •TK-5810H K	[Panel tuning mode] 1) Adj item:[W HPW] Adjust:[***] 2) Adj item:[WL HPW]→[WLC HPW]→[WC HPW]→[WCH HPW]→[WH HPW] Adjust:[***] PTT:ON Press [PF5] to store the adjustment value after adjustment.				Front panel	[PF3], [PF4]	[WL HPW] :100W [WLC HPW] :100W [WC HPW] :100W [WLH HPW] :100W [WH HPW] : 60W	±1W 28A or less
•TK-5810H K2							100W	±1W 28A or less
4. Low power adjust •TK-5810H K	1) Adj item:[W LPW] Adjust:[***] 2) Adj item:[WL LPW]→[WLC LPW]→[WC LPW]→[WCH LPW]→[WH LPW] Adjust:[***] PTT:ON Press [PF5] to store the adjustment value after adjustment.						50W	±1W 15A or less
•TK-5810H K2								

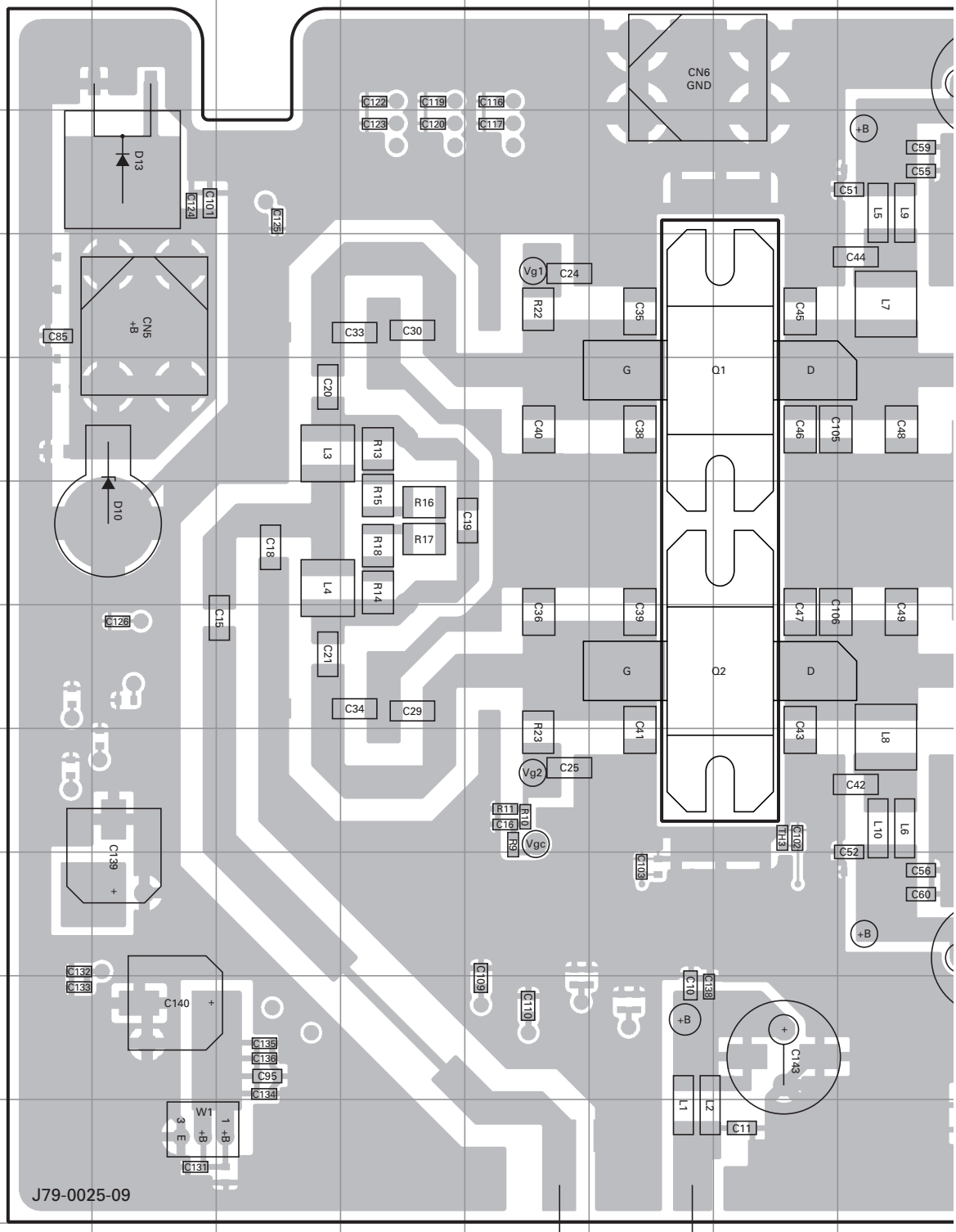
Receiver Section

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. RX Front-end adjust	[Panel tuning mode] 1) Adj item:[W FEND] Adjust:[***] 2) Adj item:[WL FEND]→[WLC FEND]→[WC FEND]→[WCH FEND]→[WH FEND]	SSG	Rear panel	ANT	Front panel	[PF3], [PF4]	Enter the following adjustment values to the transceiver by pressing [PF3] and [PF4] keys. [WL FEND] : 210 K : 205 K2 [WLC FEND] : 175 K : 155 K2 [WC FEND] : 130 K : 115 K2 [WCH FEND] : 95 K : 80 K2 [WH FEND] : 65 K : 50 K2 After setting the adjustment value, press [PF5] key. The adjustment value will be stored in memory.	Note: After replacing the EEPROM (IC701) align RX Front-end.

TK-5810H(B) PC BOARD

FINAL UNIT (X45-3800-XX) -10 : K -11 : K2

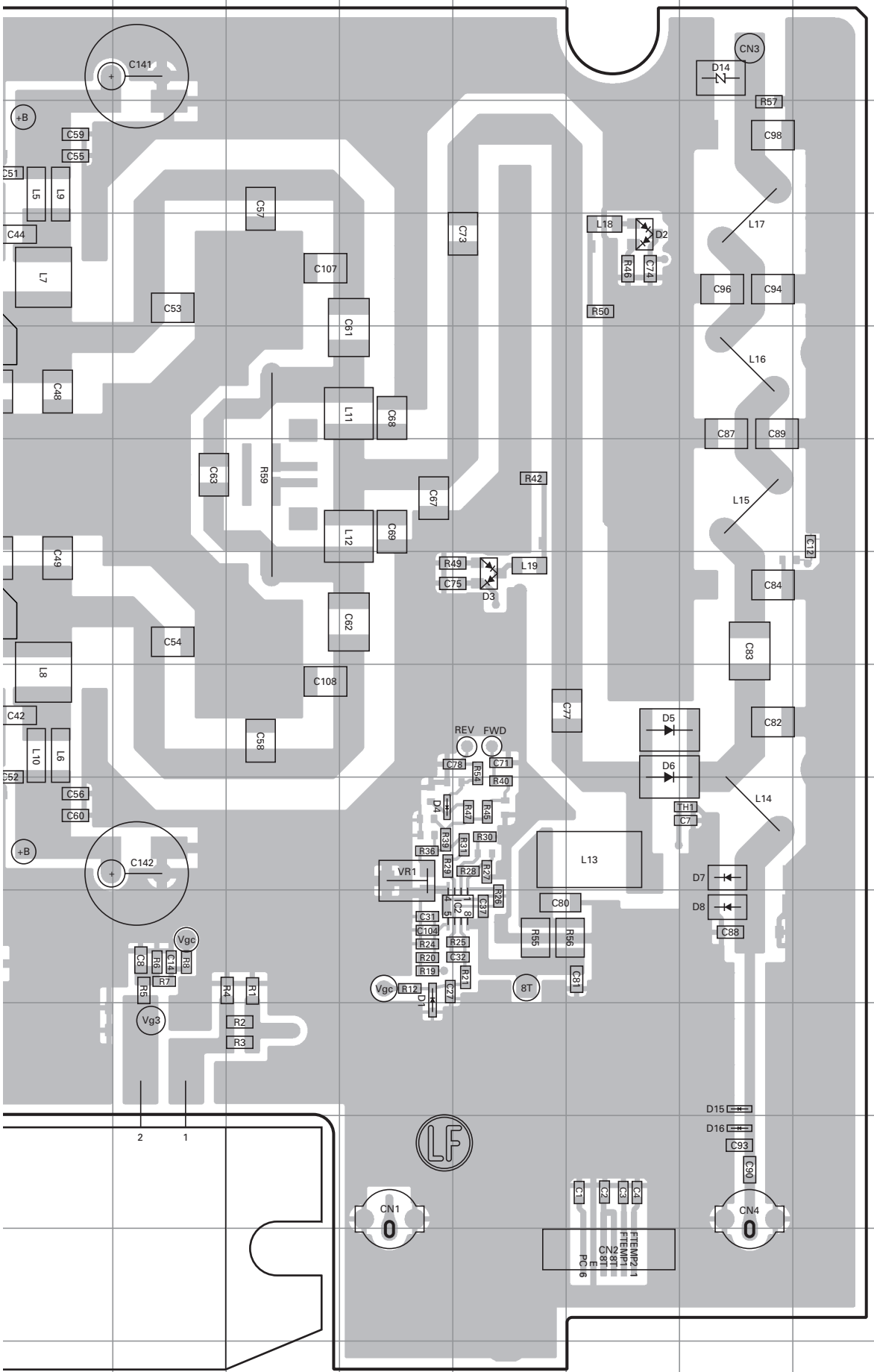
Component side view (J79-0025-09)



PC BOARD TK-5810H(B)

FINAL UNIT (X45-3800-XX) -10 : K -11 : K2

Component side view (J79-0025-09)



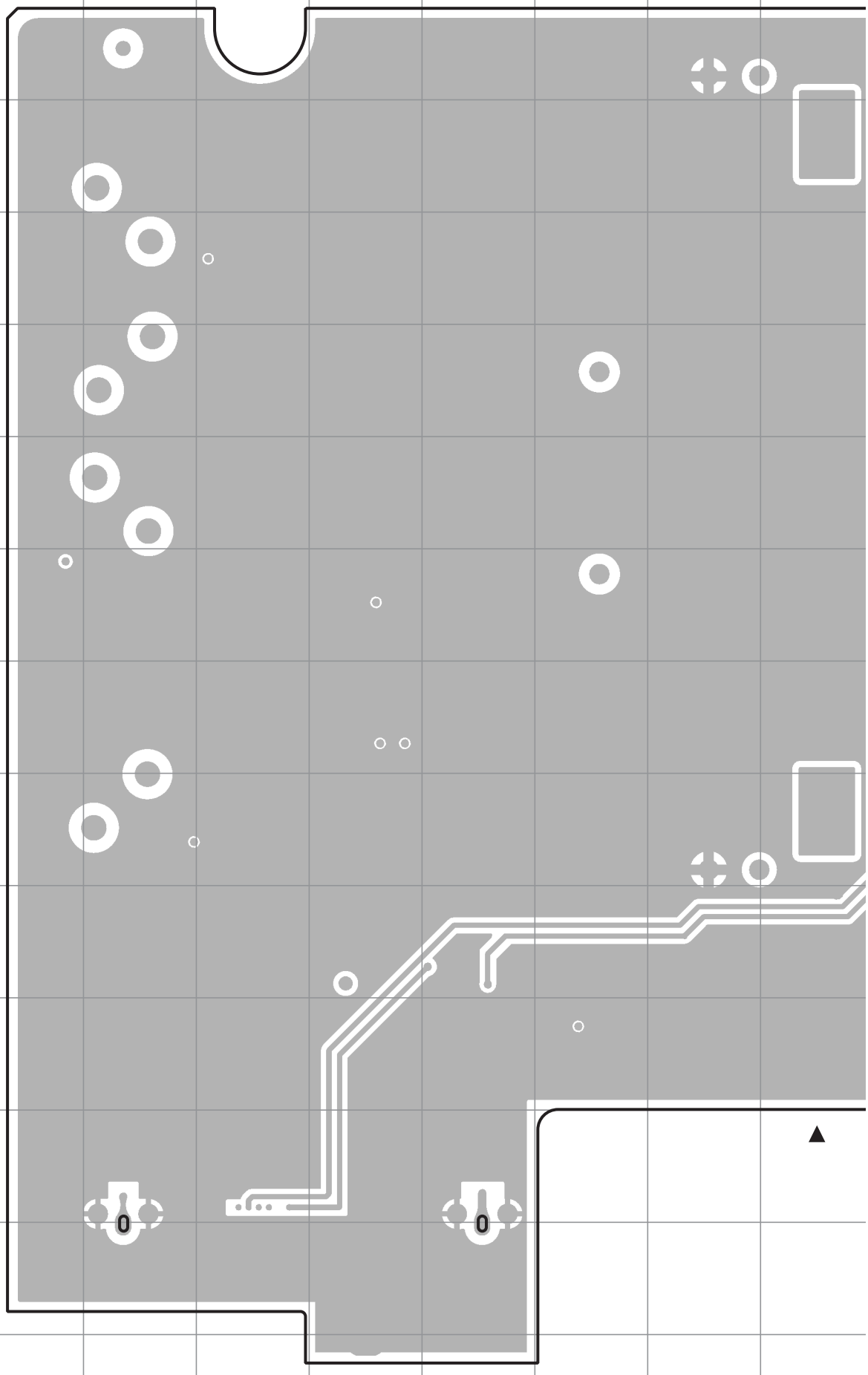
Ref. No.	Address
IC1	13I
IC2	10N
Q1	5I
Q2	7I
D1	10M
D2	4O
D3	7N
D4	9M
D5	8O
D6	8O
D7	9P
D8	10P
D10	6D
D13	3D
D14	2P
D15	11P
D16	12P

Component side
Layer 1
Layer 2
Layer 3
Layer 4
Foil side

TK-5810H(B) PC BOARD

FINAL UNIT (X45-3800-XX) -10 : K -11 : K2

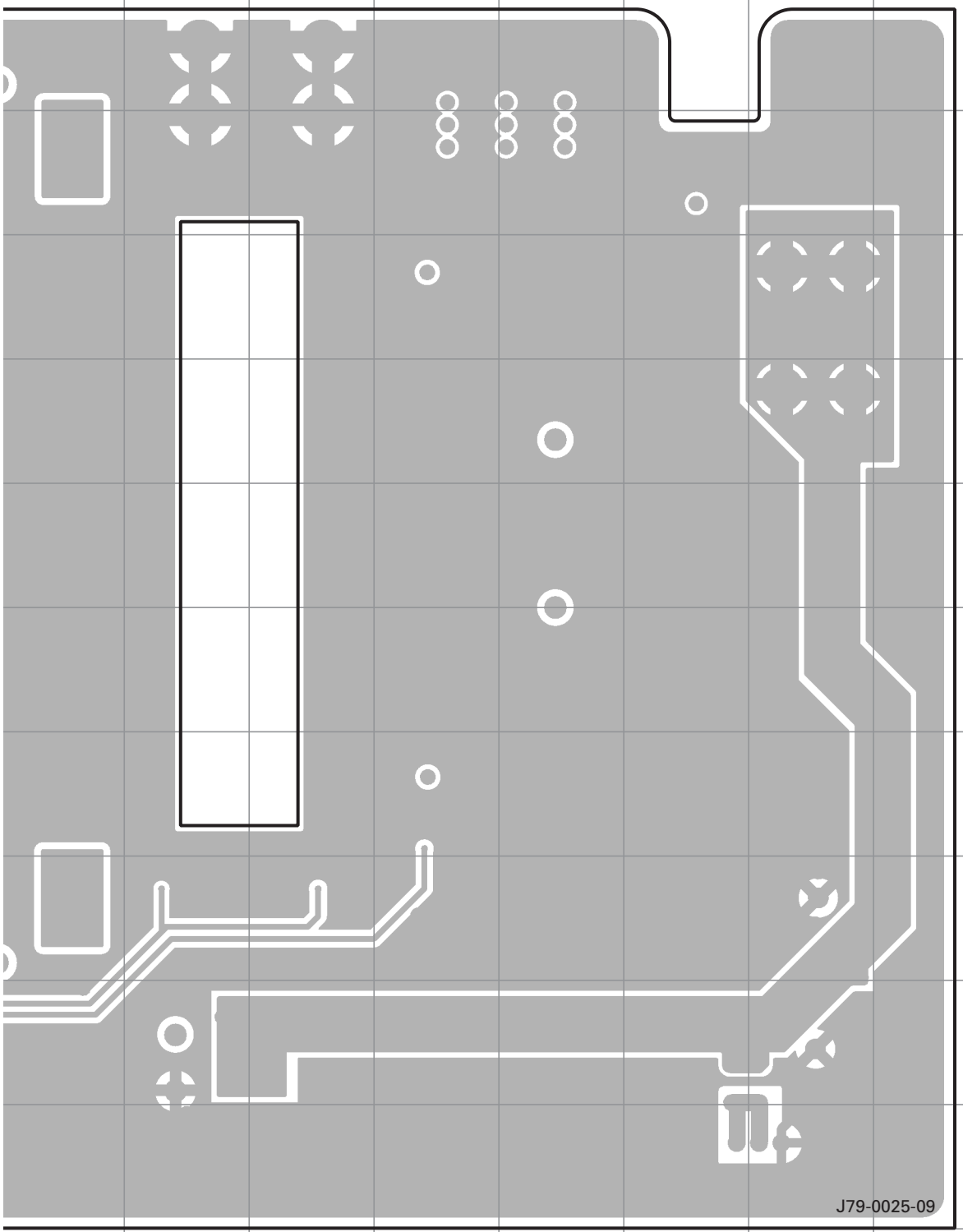
Foil side view (J79-0025-09)



PC BOARD TK-5810H(B)

FINAL UNIT (X45-3800-XX) -10 : K -11 : K2

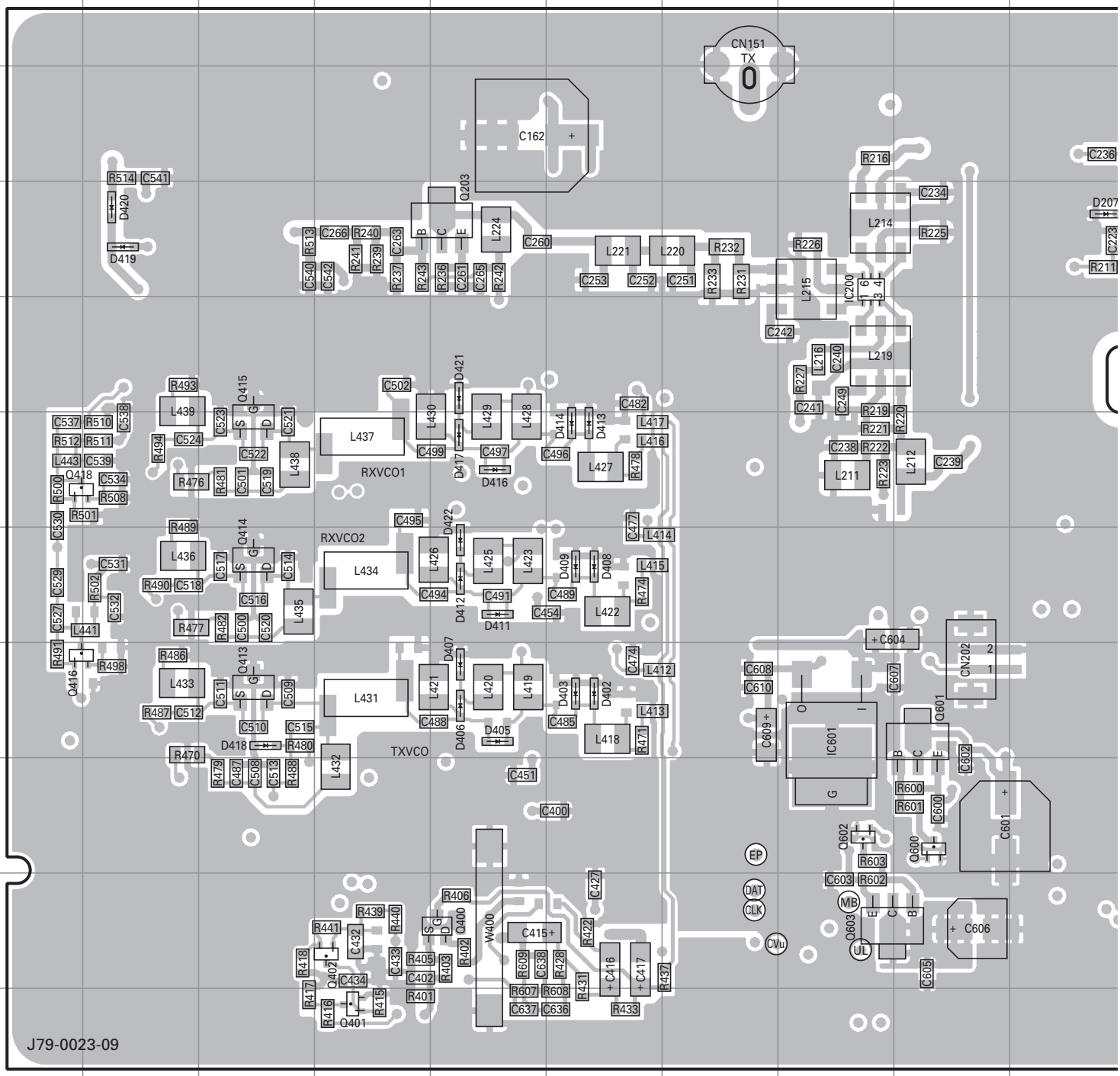
Foil side view (J79-0025-09)



Component side
Layer 1
Layer 2
Layer 3
Layer 4
Foil side

TK-5810H(B) PC BOARD

TX-RX UNIT (X57-7270-XX) -10 : K -11 : K2
Component side view (J79-0023-09)

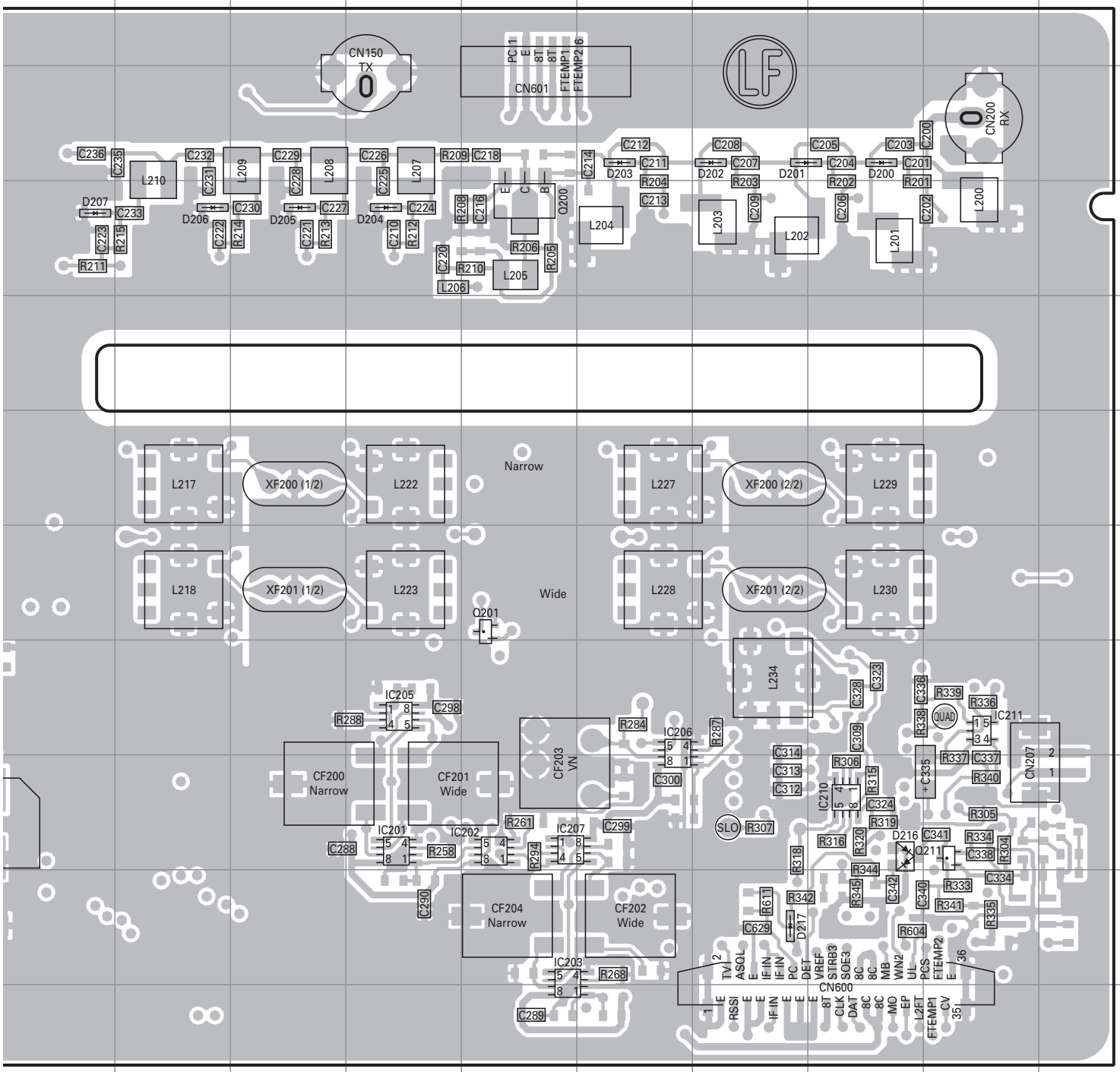


Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC200	4H	IC601	8H	Q414	7C	D201	3P	D402	8F	D413	6F
IC201	9M	Q200	4N	Q415	6C	D202	3P	D403	8F	D414	6F
IC202	9N	Q201	7N	Q416	8A	D203	3O	D405	8E	D416	6E
IC203	10N	Q203	4E	Q418	6A	D204	4M	D406	8E	D417	6E
IC205	8M	Q211	9R	Q600	9I	D205	4L	D407	8E	D418	8C
IC206	8O	Q400	10E	Q601	8I	D206	4K	D408	7F	D419	4B
IC207	9N	Q401	11D	Q602	9H	D207	4J	D409	7F	D420	4B
IC210	9Q	Q402	10D	Q603	10H	D216	9Q	D411	7E	D421	5E
IC211	8R	Q413	8C	D200	3Q	D217	10P	D412	7E	D422	7E

PC BOARD TK-5810H(B)

TX-RX UNIT (X57-7270-XX) -10 : K -11 : K2

Component side view (J79-0023-09)



Component side

Layer 1

Layer 2

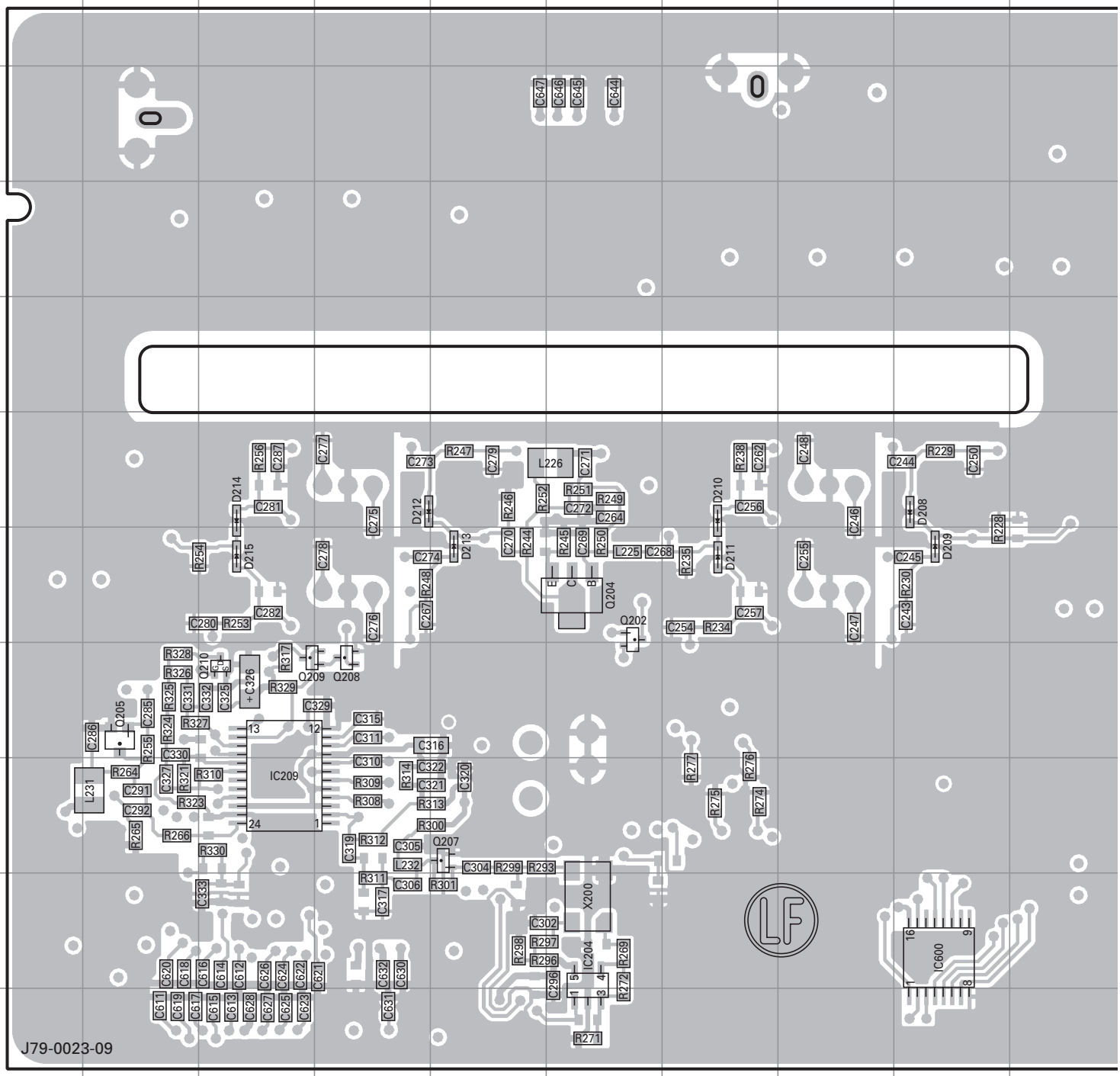
Layer 3

Layer 4

Foil side

TK-5810H(B) PC BOARD

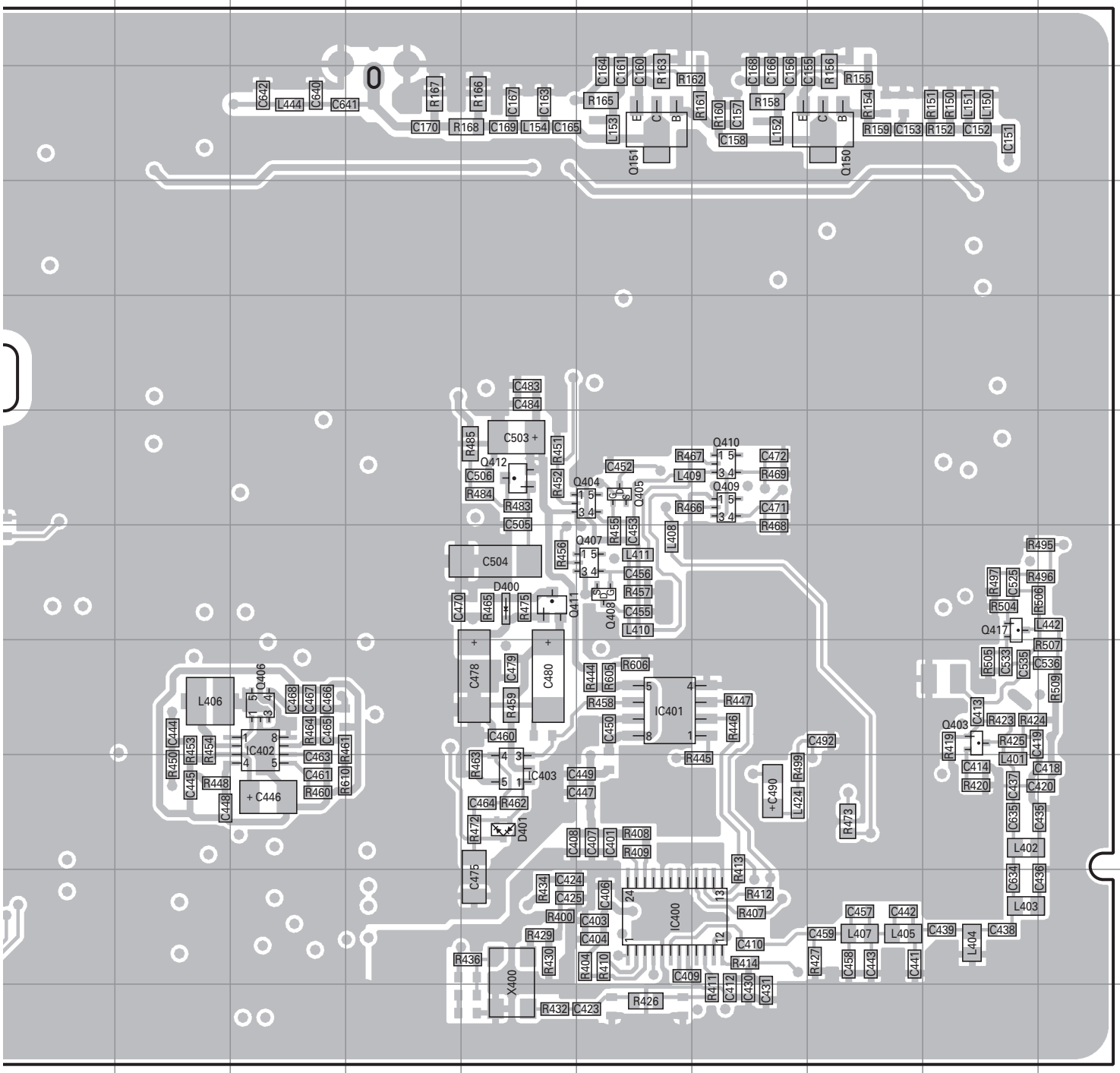
TX-RX UNIT (X57-7270-XX) -10 : K -11 : K2
Foil side view (J79-0023-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC204	10F	Q150	3Q	Q209	8C	Q408	7O	D209	7I	D400	7N
IC209	9C	Q151	3O	Q210	8C	Q409	6P	D210	6G	D401	9N
IC400	10O	Q202	7F	Q403	8R	Q410	6P	D211	7G		
IC401	8O	Q204	7F	Q404	6O	Q411	7N	D212	6D		
IC402	8L	Q205	8B	Q405	6O	Q412	6N	D213	7E		
IC403	9N	Q207	9E	Q406	8L	Q417	7R	D214	6C		
IC600	10I	Q208	8D	Q407	7O	D208	6I	D215	7C		

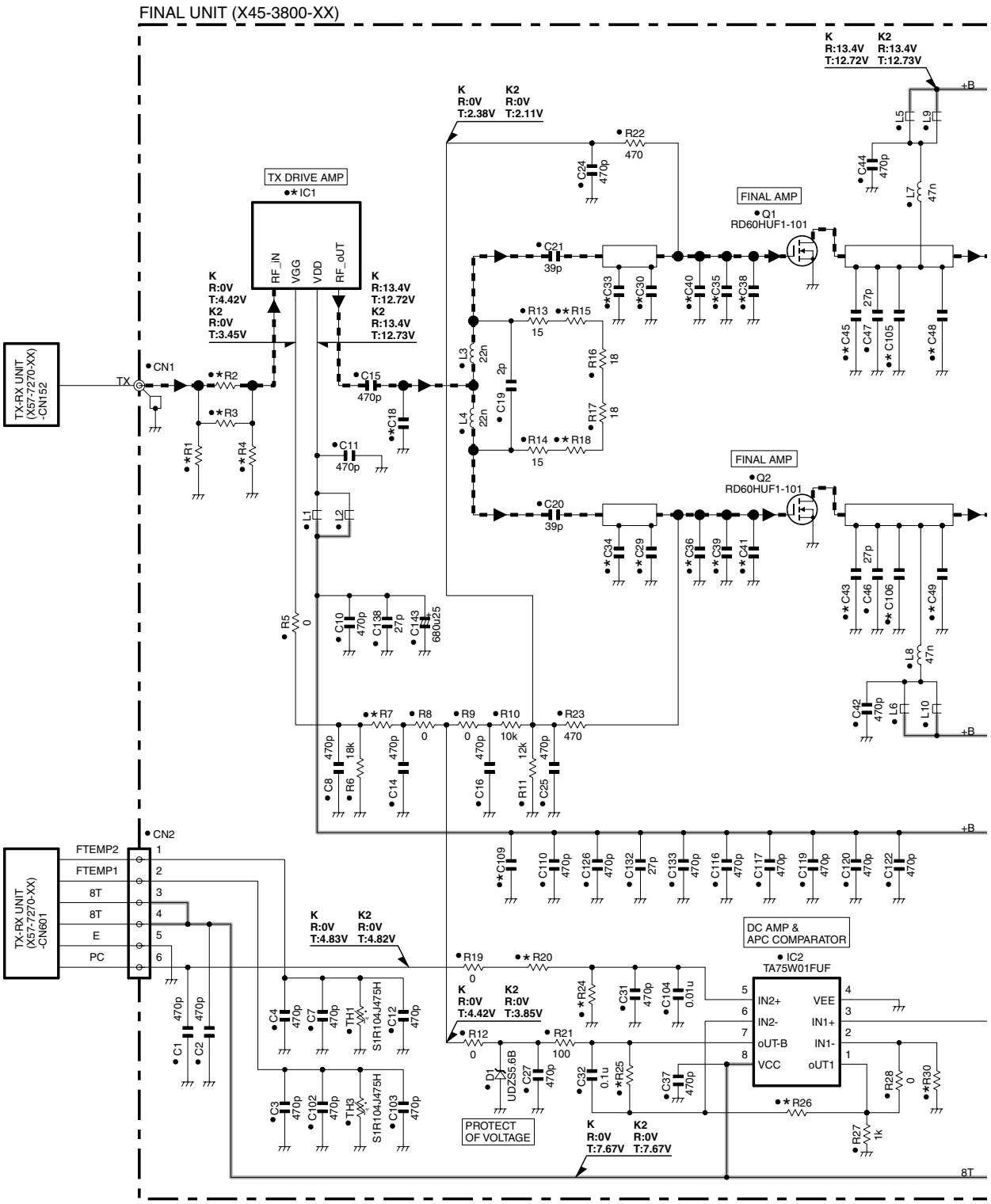
PC BOARD TK-5810H(B)

TX-RX UNIT (X57-7270-XX) -10 : K -11 : K2
Foil side view (J79-0023-09)



Component side
Layer 1
Layer 2
Layer 3
Layer 4
Foil side

TK-5810H(B) SCHEMATIC DIAGRAM

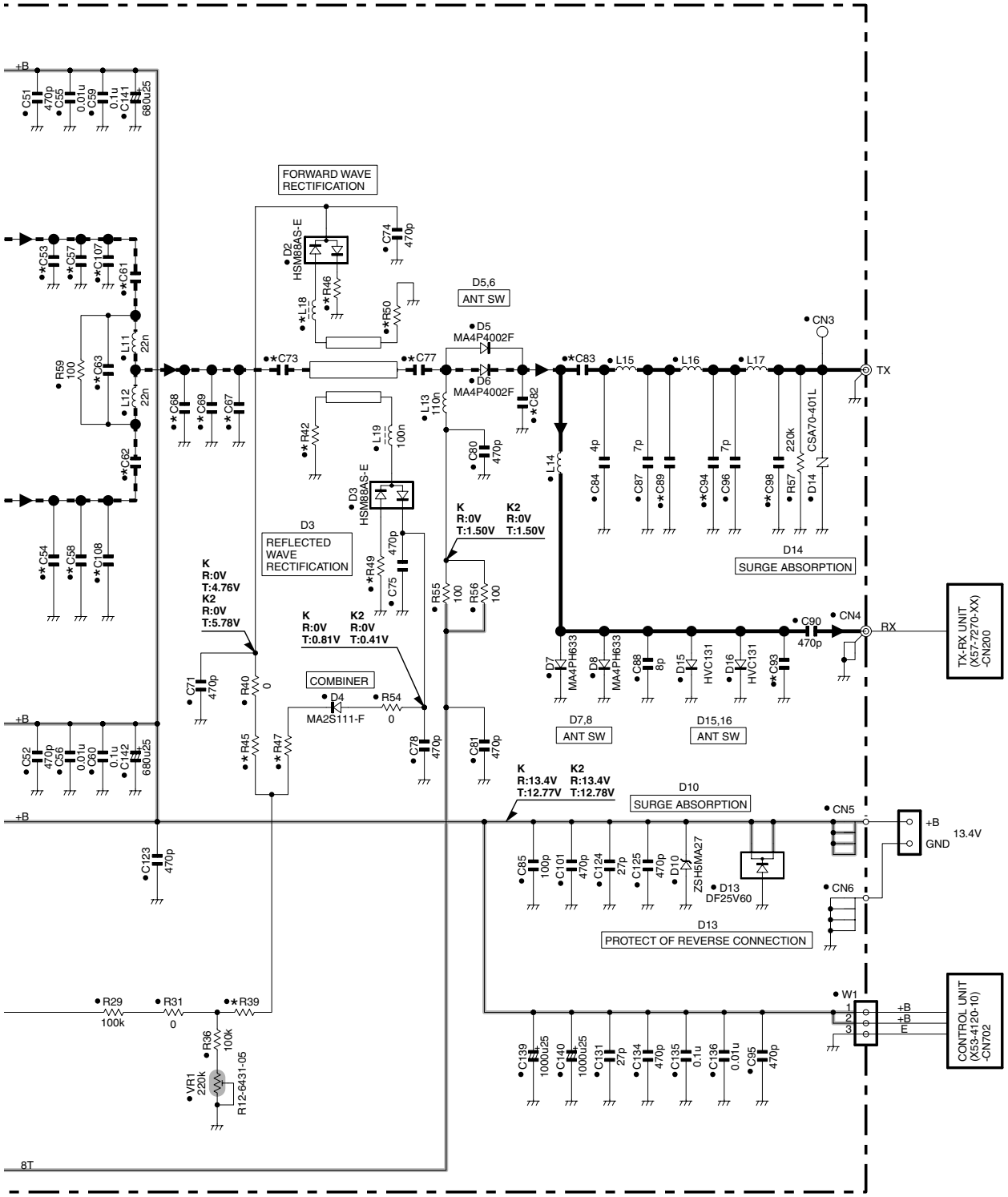


X45-3800-XX		IC1	R1	R2	R3	R4	R7	R15	R18	R20	R24	R25	R26	R30
-10	K	RA13H4452M123	820	10	10	820	0	18	18	270k	220k	120k	4.7k	NO
-11	K2	RA13H4047M123	NO	0	NO	NO	820	15	15	220k	270k	330k	3.3k	1k

X45-3800-XX		C18	C29	C30	C33	C34	C35	C36	C38	C39	C40	C41	C43	C45	C48	C49	C105	C106	C109
-10	K	3p	5p	5p	3p	3p	30p	7p	30p	30p	7p	30p	27p	27p	8p	8p	10p	10p	47p
-11	K2	4p	10p	10p	6p	6p	39p	12p	39p	39p	12p	39p	30p	30p	20p	20p	18p	18p	56p

SCHEMATIC DIAGRAM TK-5810H(B)

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

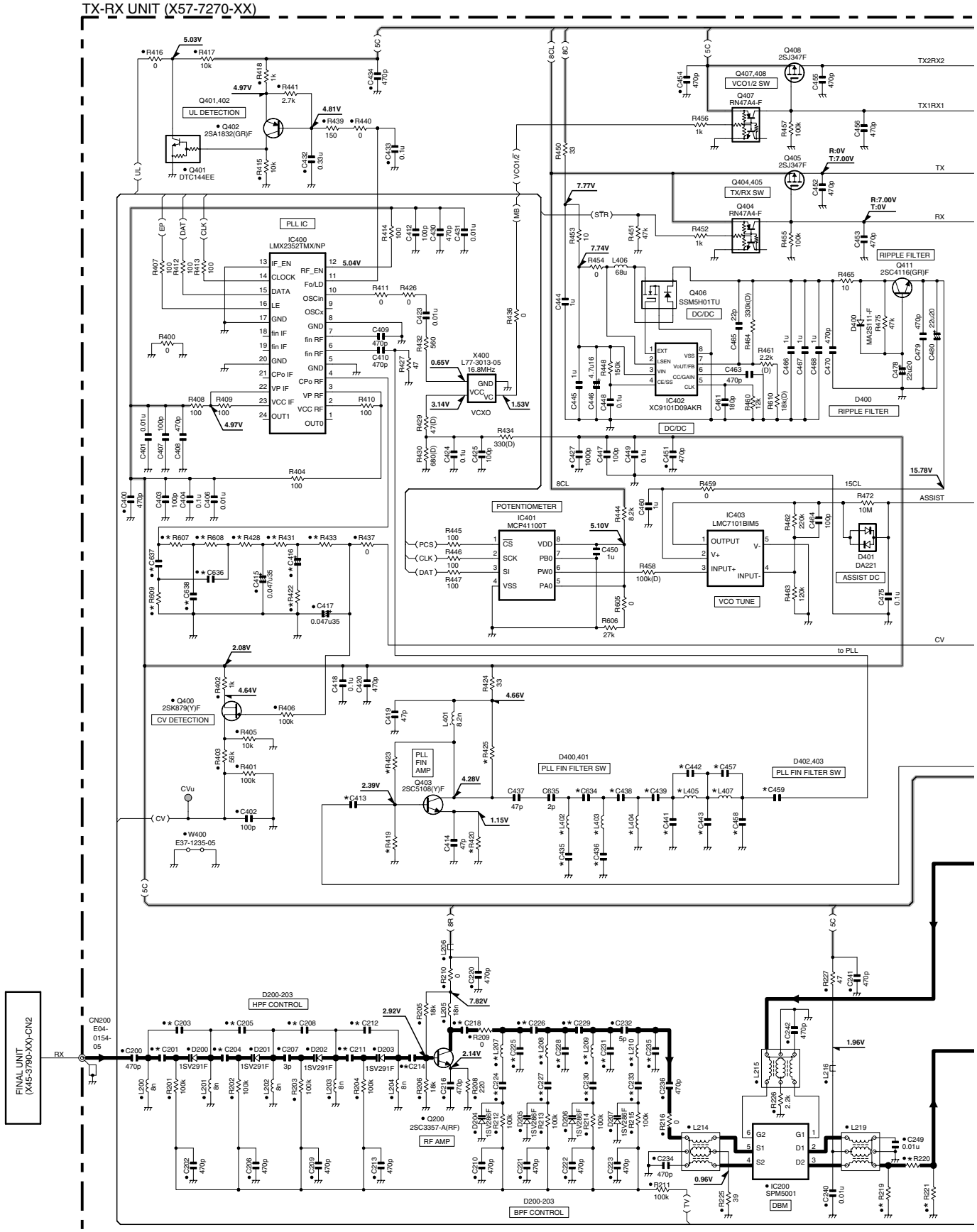


X45-3800-XX		L18	R39	R42	R45	R46	R47	R49	R50	C53	C54	C57	C58
-10	K	82n	220k	56	56k	220	10k	390	68	2p	2p	2p	2p
-11	K2	100n	10k	82	220k	330	0	180	82	NO	NO	10p	10p

X45-3800-XX		C61	C62	C63	C67	C68	C69	C73	C77	C82	C83	C89	C93	C94	C98	C107	C108
-10	K	390p	390p	1.5p	1p	2p	2p	47p	27p	4p	390p	7p	NO	7p	5p	3p	3p
-11	K2	100p	100p	2p	4p	NO	NO	33p	33p	9p	100p	8p	2p	8p	7p	NO	NO

TK-5810H(B) SCHEMATIC DIAGRAM

TX-RX UNIT (X57-7270-XX)

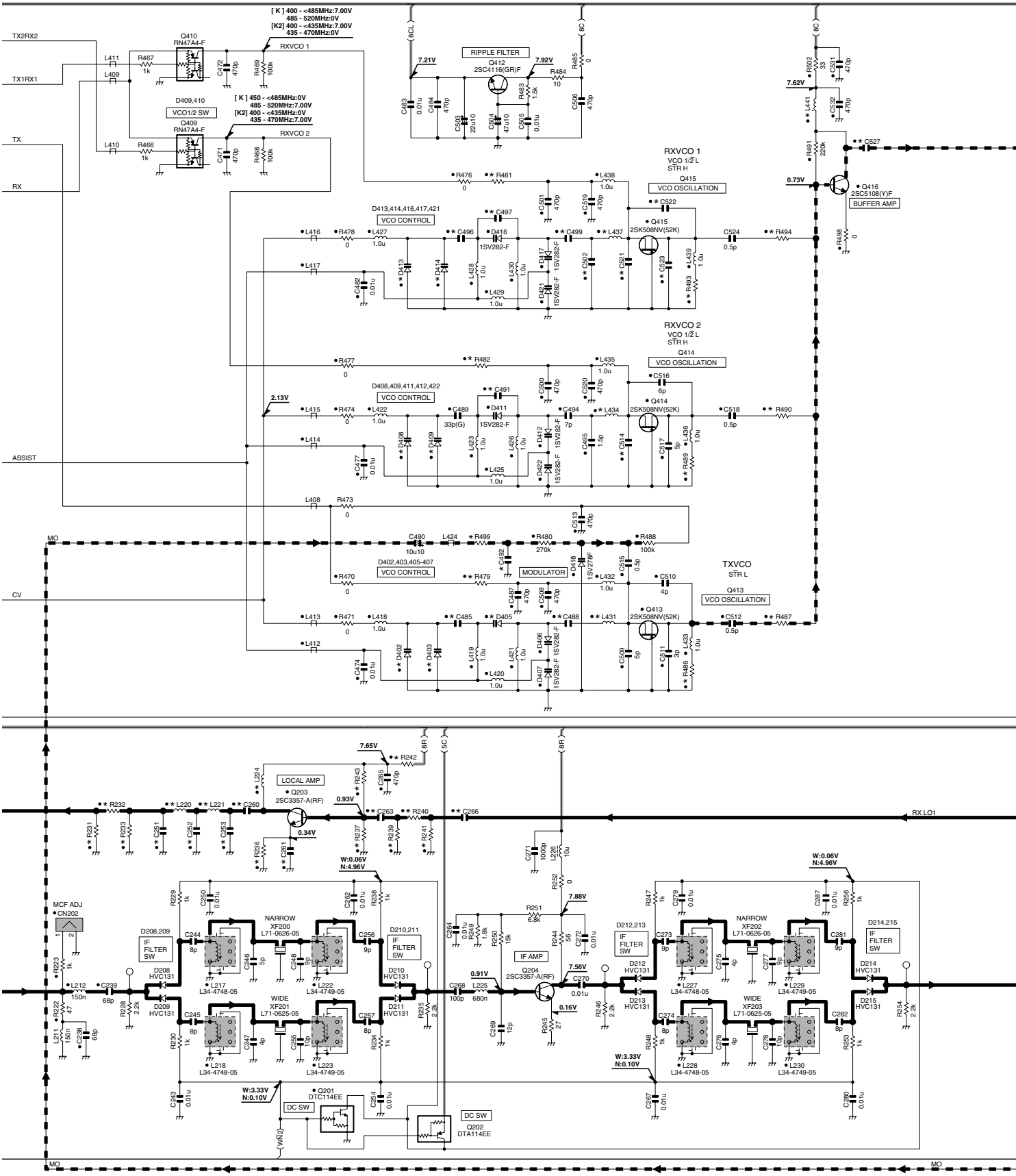


X57-7270-XX		L207	L208	L209	L210	L402	L403	L404	L405	L407	R219	R220	R221	R419	R420	R422	R423	R425	R428	R431	R433	R607	R608	R609	C201	C203
-10	K	L34-4565-05(5T)	L34-4565-05(5T)	L34-4565-05(5T)	L34-4565-05(5T)	NO	4.7n	4.7n	3.3n	3.3n	NO	0	NO	4.7k(D)	150(D)	1.2k	4.7k	220	100	0	100	390	390	180	3p	1.5p
-11	K2	L34-4566-05(6T)	L34-4566-05(6T)	L34-4566-05(6T)	L34-4566-05(6T)	15n	15n	NO	6.8n	6.8n	820	5.6	820	10k(D)	100(D)	3.9k	10k	NO	1k	1k	2.2k	0	0	NO	4p	2p

X57-7270-XX		C204	C205	C208	C211	C212	C214	C218	C224	C225	C226	C227	C228	C229	C230	C231	C233	C235	C413	C416	C435	C436	C438	C439	C441	C442	C443	C457	C458	C459	C634	C636	C637	C638
-10	K	3p	0.5p	0.5p	3p	1.5p	15p	10p	22p	9p	3p	18p	7p	4p	18p	7p	22p	8p	47p	1u	NO	27p	2.5p	2.5p	2p	3p	5p	3.5p	1p	100p	47p	0.039u	0.039u	0.068u
-11	K2	4p	1p	1p	4p	2p	12p	8p	18p	10p	5p	15p	9p	6p	15p	9p	27p	10p	100p	0.47u	8p	6p	5p	47p	1.5p	2p	3p	2p	1.5p	47p	1.5p	NO	NO	NO

SCHEMATIC DIAGRAM TK-5810H(B)

TX-RX UNIT(X57-7270-XX)

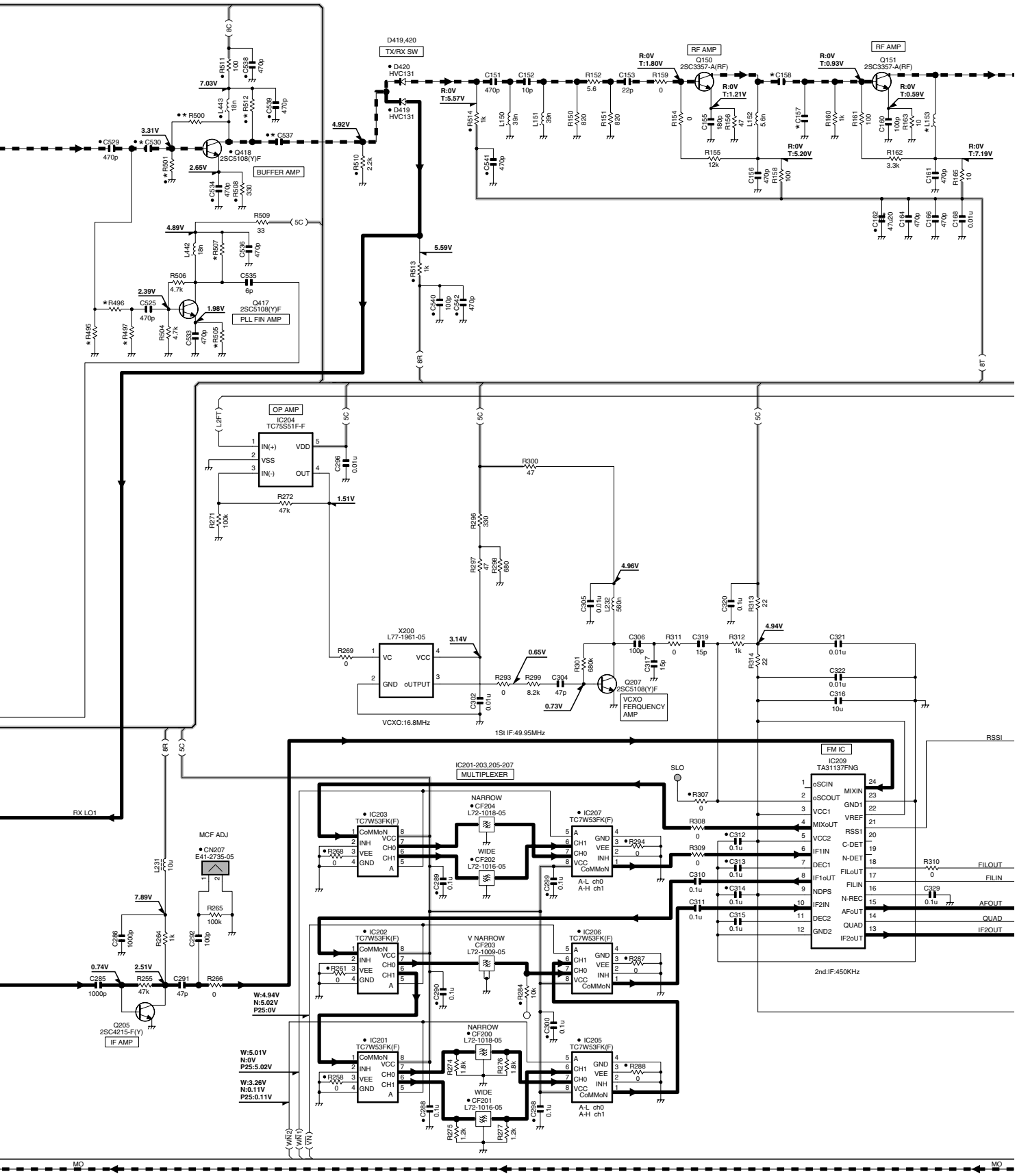


X57-7270-XX		D402	D403	D405	D408	D409	D413	D414	L220	L221	L224	L431	L434	L437	L441	R231	R232	R233	R236	R237	R239	R240	R241	R242	R243
-10	K	1SV305F	HVC376B	BB664	1SV305F	HVC376B	1SV305F	HVC376B	15n	15n	18n	L34-4607-05 17.5n	L34-4608-05 22n	L34-4608-05 22n	18n	180	33	180	220	10k	180	33	180	330	18k
-11	K2	1SV282-F	NO	1SV282-F	1SV282-F	NO	1SV282-F	NO	22n	22n	33n	L34-4608-05 22n	L34-4609-05 28n	L34-4609-05 28n	27n	270	18	270	68	560	270	18	270	33	3.9k

X57-7270-XX		R479	R481	R482	R486	R487	R489	R490	R493	R494	R499	C251	C252	C253	C260	C261	C263	C266	C485	C488	C491	C492	C496	C497	C499	C502	C514	C521	C522	C523	C527
-10	K	390	390(D)	470(D)	150	100	220	100(D)	220(D)	100(D)	27k	5p	10p	5p	5p	470p	12p	470p	100p	12p	1p	470p	100p	1.5p	10p	2p	6p	7p	6p	6p	6p
-11	K2	470	560(D)	270(D)	180	0	270	0	330(D)	0	22k	8p	12p	8p	4p	NO	100p	100p	27p	15p	0.5p	680p	39p	0.5p	9p	2.5p	7p	9p	7p	5p	5p

TK-5810H(B) SCHEMATIC DIAGRAM

TX-RX UNIT(X57-7270-XX)

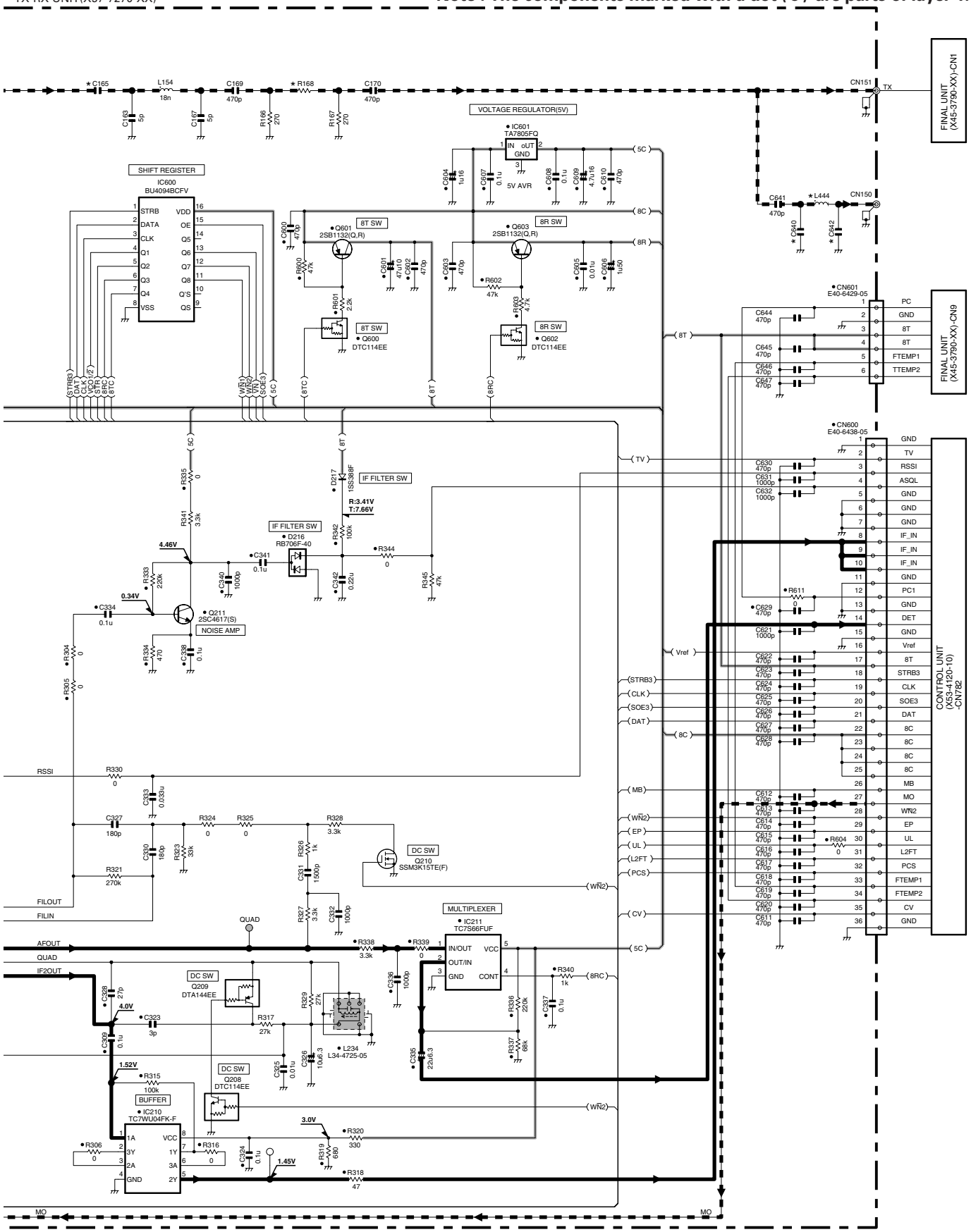


X57-7270-XX	L153	R495	R496	R497	R500	R501	R505	R507	R512	C157	C158	C530	C537
-10	K	18n	470	12	470	22k	15k	150	150	220	1p	12p	4p	5p
-11	K2	22n	NO	0	NO	10k	10k	470	100	NO	8p	18p	5p	6p

SCHEMATIC DIAGRAM TK-5810H(B)

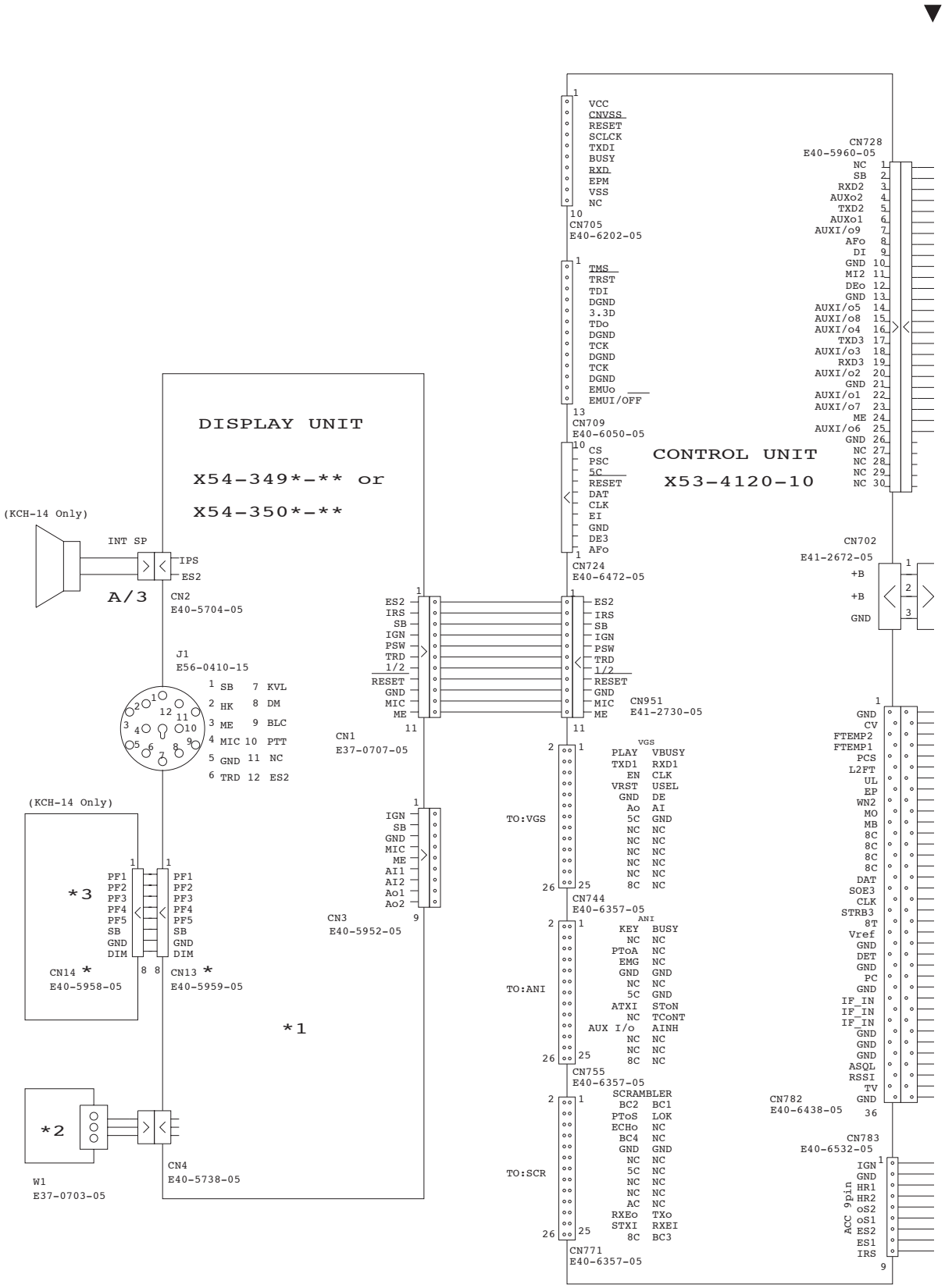
TX-RX UNIT(X57-7270-XX)

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



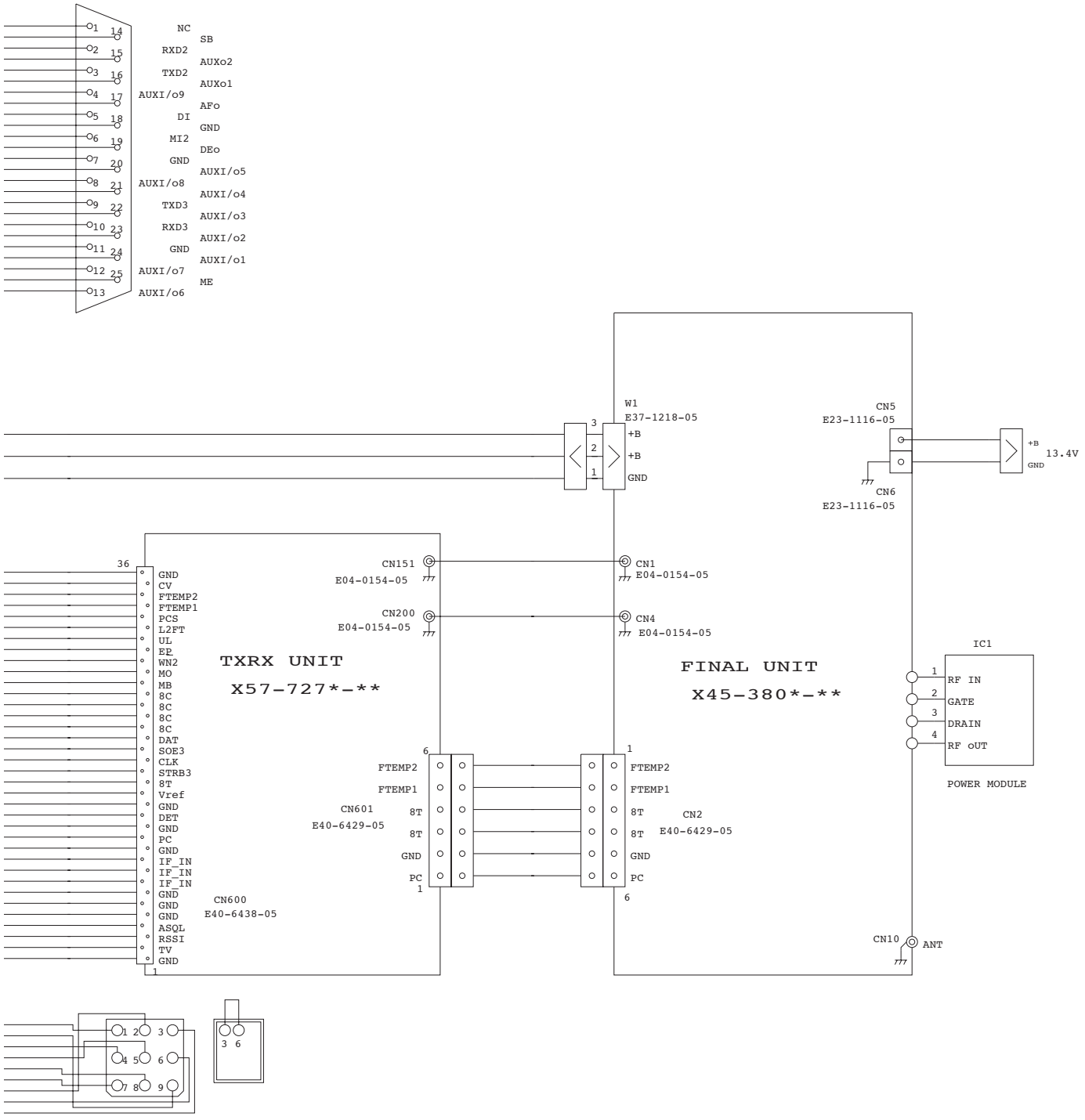
X57-7270-XX	L444	R168	C165	C640	C642
-10	K	18n	22	6p	5p	5p
-11	K2	15n	18	7p	12p	12p

INTERCONNECTION DIAGRAM



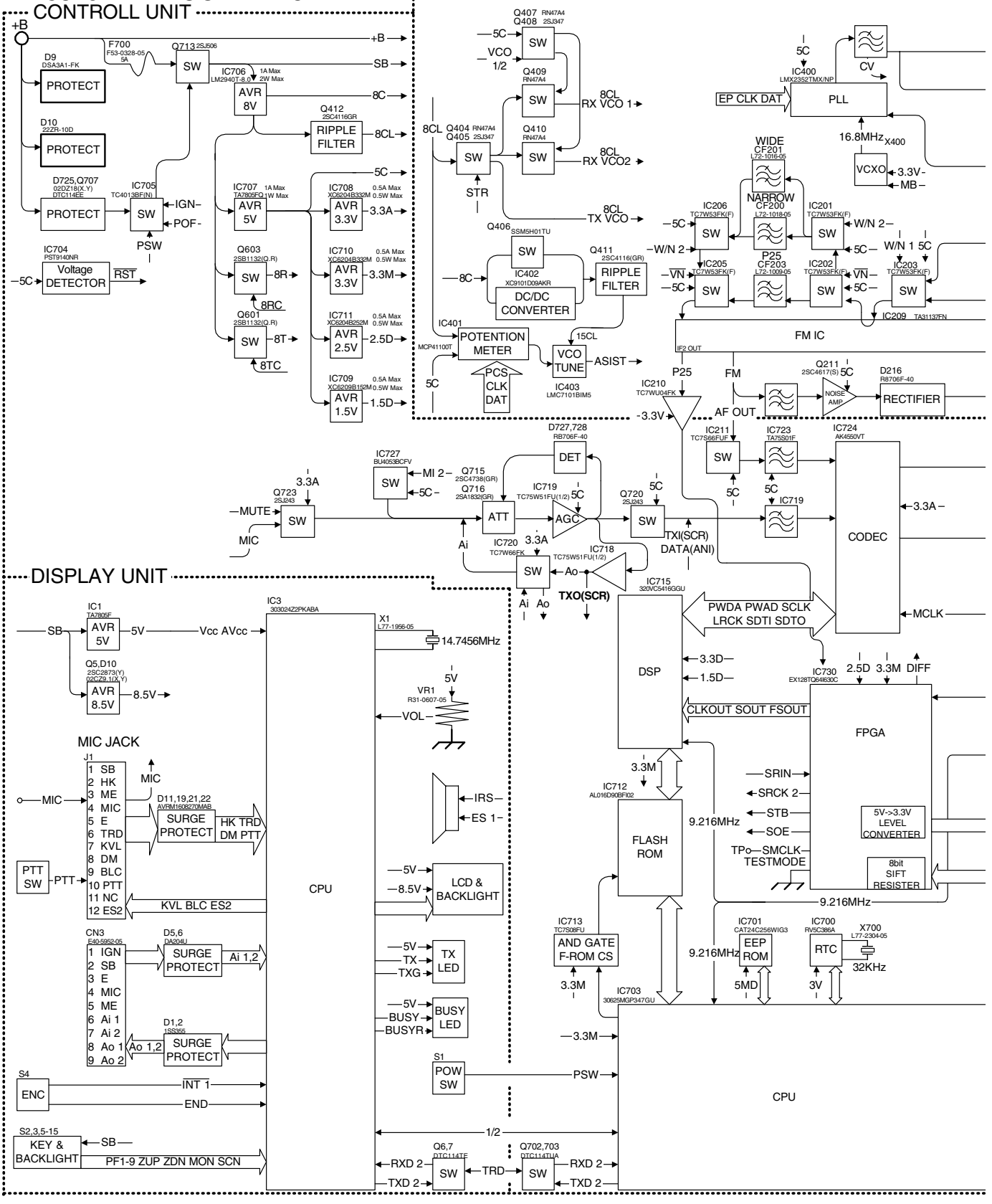
	CN13	CN14	*1	*2	*3
X54-349 (KCH-14)	○	○	CN14	CN14	CN14
X54-350 (KCH-15)	—	—	CN14	CN14	—

INTERCONNECTION DIAGRAM

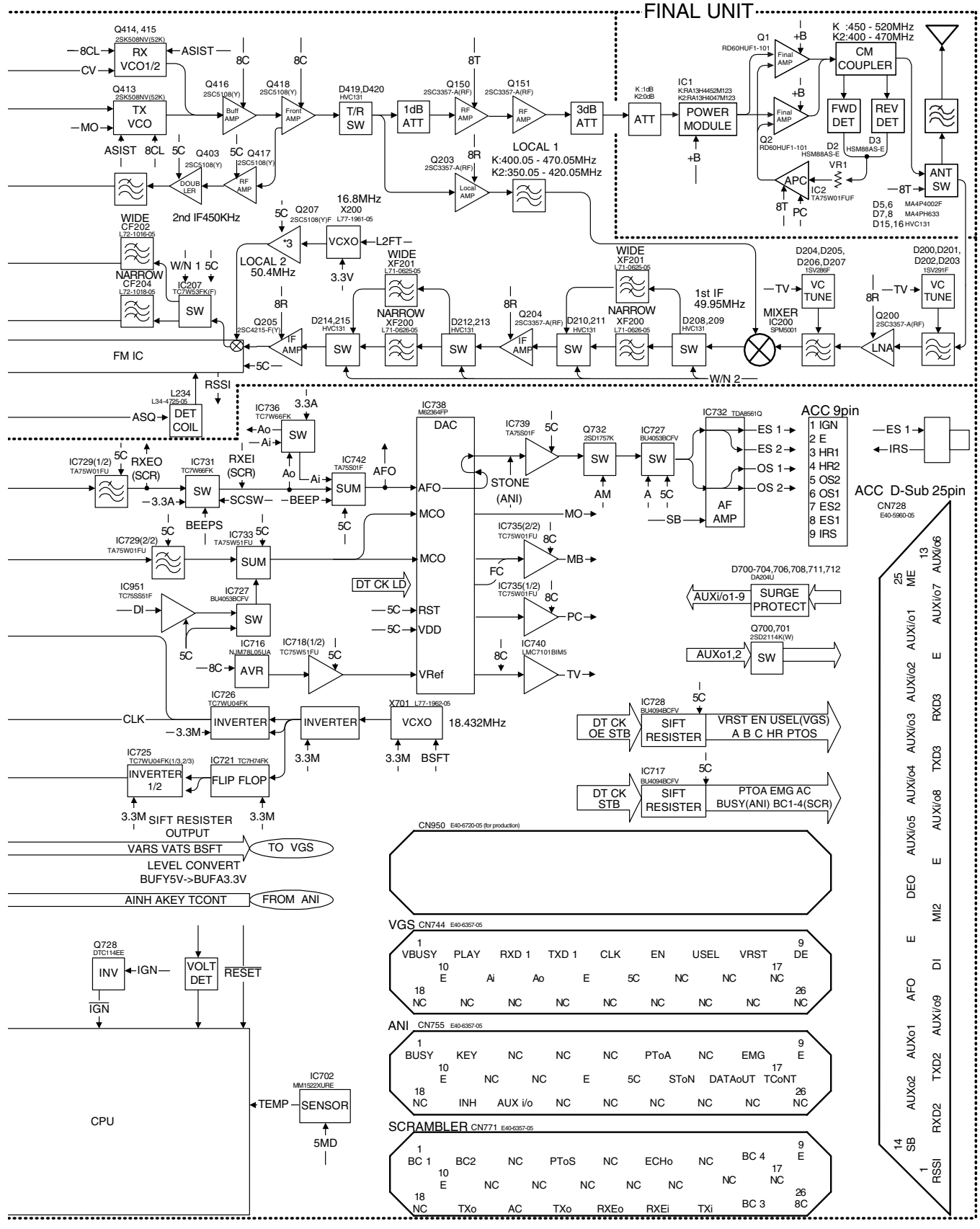


BLOCK DIAGRAM

TK-5810HB BLOCK DIAGRAM



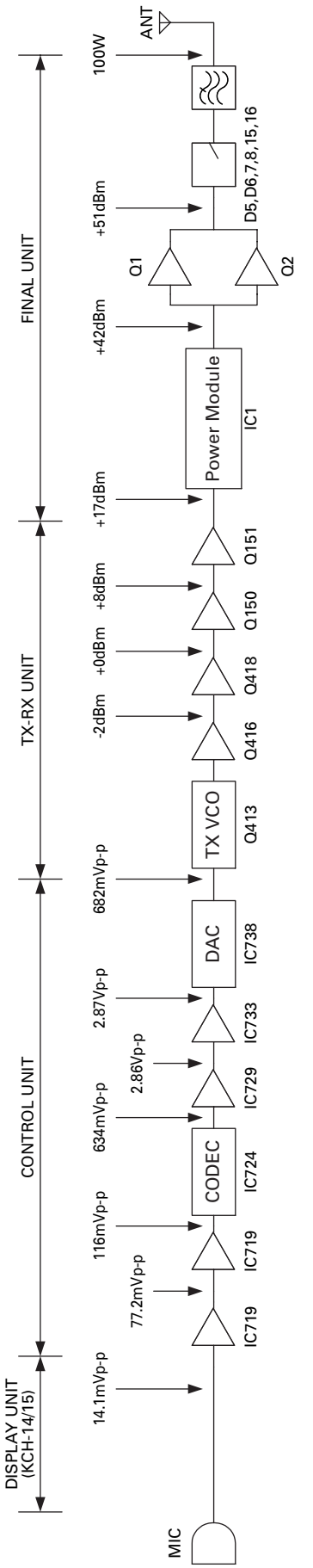
BLOCK DIAGRAM



LEVEL DIAGRAM

Transmitter Section

TK-5810H



AG is set to the MIC input becomes 3kHz DEV at 1kHz MOD.
To make measurements in the AF section,connect the AC level meter.
In the RF section,use 1000pF coupling capacitor.

MEMO

TK-5810H(B)

SPECIFICATIONS

GENERAL

Frequency Range	K : 450~520 MHz K2 : 400~470 MHz
Number of Channels	512
Zones	50
Max. Channels per Zone	250
Channel Spacing	Analog : 12.5/25 kHz Digital : 12.5 kHz
Operating Voltage	13.4V DC ± 15%
Current Drain	
Standby	Less than 0.6A
Receive	Less than 2.3A
Transmit	Less than 28A
Duty Cycle	Transmit : 20%
Operating Temperature Range	–22°F to +140°F (–30°C to +60°C)
Frequency Stability	±2.0 ppm (–22°F to +140°F)
Antenna Impedance	50Ω
Dimensions (W x H x D)	
(Projections included)	
RF Deck only	7.01"x 2.36"x 12.87" in.(178 x 60 x 327 mm)
with KCH-14 or KCH-15	7.05"x 2.36"x 14.29" in.(179 x 60 x 363 mm)
Weight (net)	
RF Deck only	9.2 lbs.(4.2kg)
with KCH-14	9.9 lbs.(4.5kg)
with KCH-15	9.9 lbs.(4.5kg)

RECEIVER

Sensitivity	Digital (5% BER) : 0.25µV Digital(1% BER) : 0.40µV Analog 12dB SINAD : 0.25µV
Selectivity	Digital : -63dB Analog @25kHz : -83dB Analog @12.5kHz : -76dB
Intermodulation Distortion	Digital : -80dB Analog @25/30kHz : -80dB Analog @12.5/15kHz : -80dB
Spurious and Image	Digital : -90dB Analog :- 90dB
Audio Distortion	Digital : Less than 1.0% Analog : Less than 2.0%
Audio Output	Internal (KCH-14)@3%:1.5W/8Ω External:@3%:12W/4Ω
	Internal (KCH-14)@5%:1.625W/8Ω External:@5%:13W/4Ω

TRANSMITTER

RF Output Power	K : 100W to 50W for 450-500MHz, More than 60W to 50W for 500-520MHz
	K2: 100W to 50W for 400-470MHz
Spurious and Harmonics	80dB
FM Hum and Noise	Analog @25kHz : 50dB Analog @12.5kHz : 45dB
Microphone Impedance	600Ω
Audio Distortion	Less than 2%
Modulation	16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 20K0F7D, 11K2F7D, 14K4F1D, 7K20F1D

Analog measurements made per TIA/EIA-603
Digital measurements made per TIA/EIA-102CAAA
KENWOOD reserves the right to change specifications without prior notice or obligation.

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Bolivia, 239-08020 Barcelona, Spain

Kenwood Electronics Australia Pty. Ltd.
(A.C.N. 001 499 074)
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Kenwood Electronics (Hong Kong) Ltd.
Unit 3712-3724, Level 37, Tower one Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T., Hong Kong

Kenwood Electronics Singapore Pte Ltd
1 Ang Mo Kio Street 63, Singapore 569110

TK-5810H(B) PC BOARD

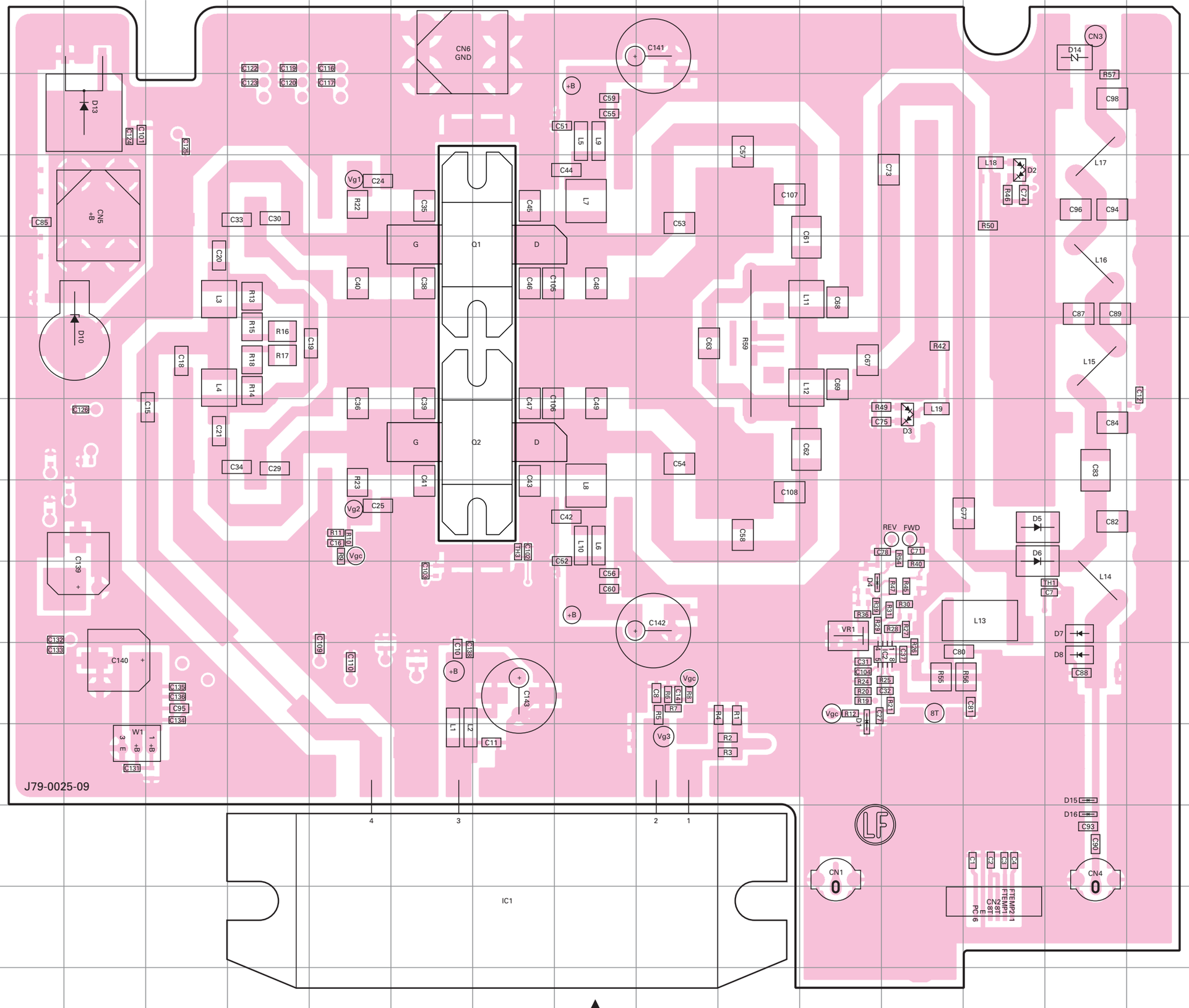
FINAL UNIT (X45-3800-XX) -10 : K -11 : K2

Component side view (J79-0025-09)

PC BOARD TK-5810H(B)

FINAL UNIT (X45-3800-XX) -10 : K -11 : K2

Component side view (J79-0025-09)



Ref. No.	Address
IC1	13I
IC2	10N
Q1	5I
Q2	7I
D1	10M
D2	4O
D3	7N
D4	9M
D5	8O
D6	8O
D7	9P
D8	10P
D10	6D
D13	3D
D14	2P
D15	11P
D16	12P

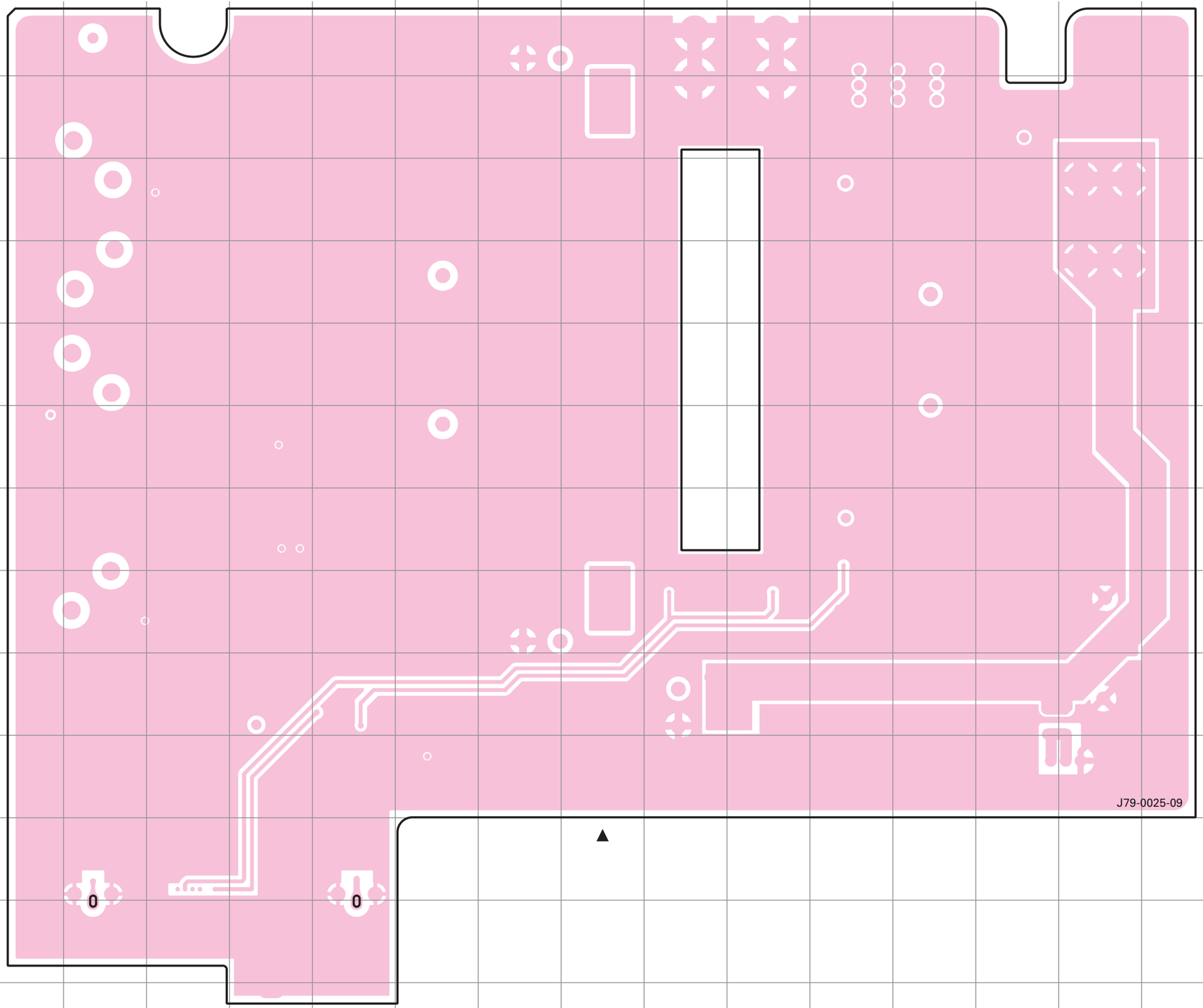
Component side
Layer 1
Layer 2
Layer 3
Layer 4
Foil side

TK-5810H(B) PC BOARD

FINAL UNIT (X45-3800-XX) -10 : K -11 : K2
Foil side view (J79-0025-09)

PC BOARD TK-5810H(B)

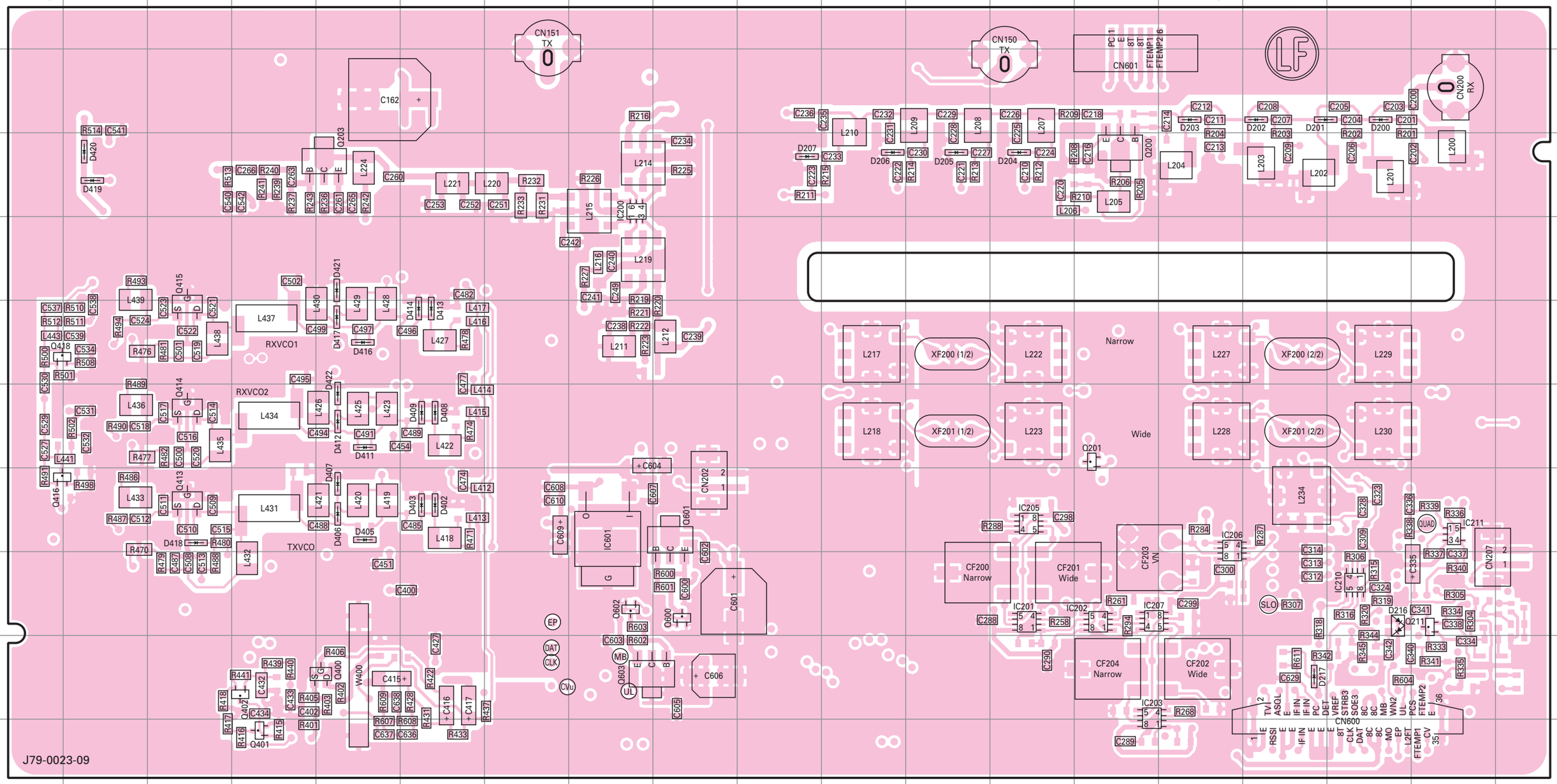
FINAL UNIT (X45-3800-XX) -10 : K -11 : K2
Foil side view (J79-0025-09)



PC BOARD TK-5810H(B)

TX-RX UNIT (X57-7270-XX) -10 : K -11 : K2
Component side view (J79-0023-09)

TX-RX UNIT (X57-7270-XX) -10 : K -11 : K2
Component side view (J79-0023-09)



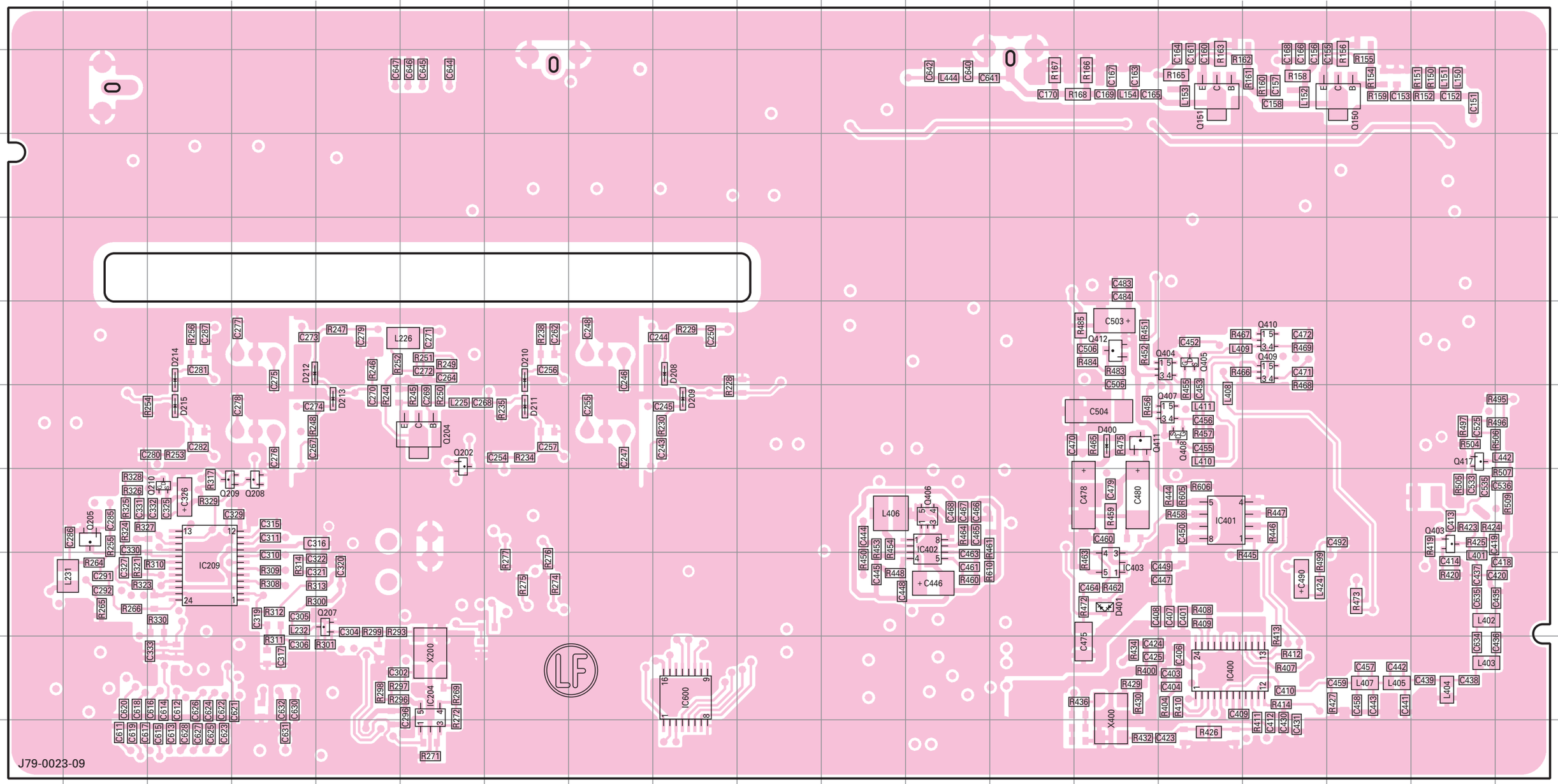
Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC200	4H	IC601	8H	Q414	7C	D201	3P	D402	8F	D413	6F
IC201	9M	Q200	4N	Q415	6C	D202	3P	D403	8F	D414	6F
IC202	9N	Q201	7N	Q416	8A	D203	3O	D405	8E	D416	6E
IC203	10N	Q203	4E	Q418	6A	D204	4M	D406	8E	D417	6E
IC205	8M	Q211	9R	Q600	9I	D205	4L	D407	8E	D418	8C
IC206	8O	Q400	10E	Q601	8I	D206	4K	D408	7F	D419	4B
IC207	9N	Q401	11D	Q602	9H	D207	4J	D409	7F	D420	4B
IC210	9Q	Q402	10D	Q603	10H	D216	9Q	D411	7E	D421	5E
IC211	8R	Q413	8C	D200	3Q	D217	10P	D412	7E	D422	7E

Component side
Layer 1
Layer 2
Layer 3
Layer 4
Foil side

PC BOARD TK-5810H(B)

TX-RX UNIT (X57-7270-XX) -10 : K -11 : K2
Foil side view (J79-0023-09)

TX-RX UNIT (X57-7270-XX) -10 : K -11 : K2
Foil side view (J79-0023-09)



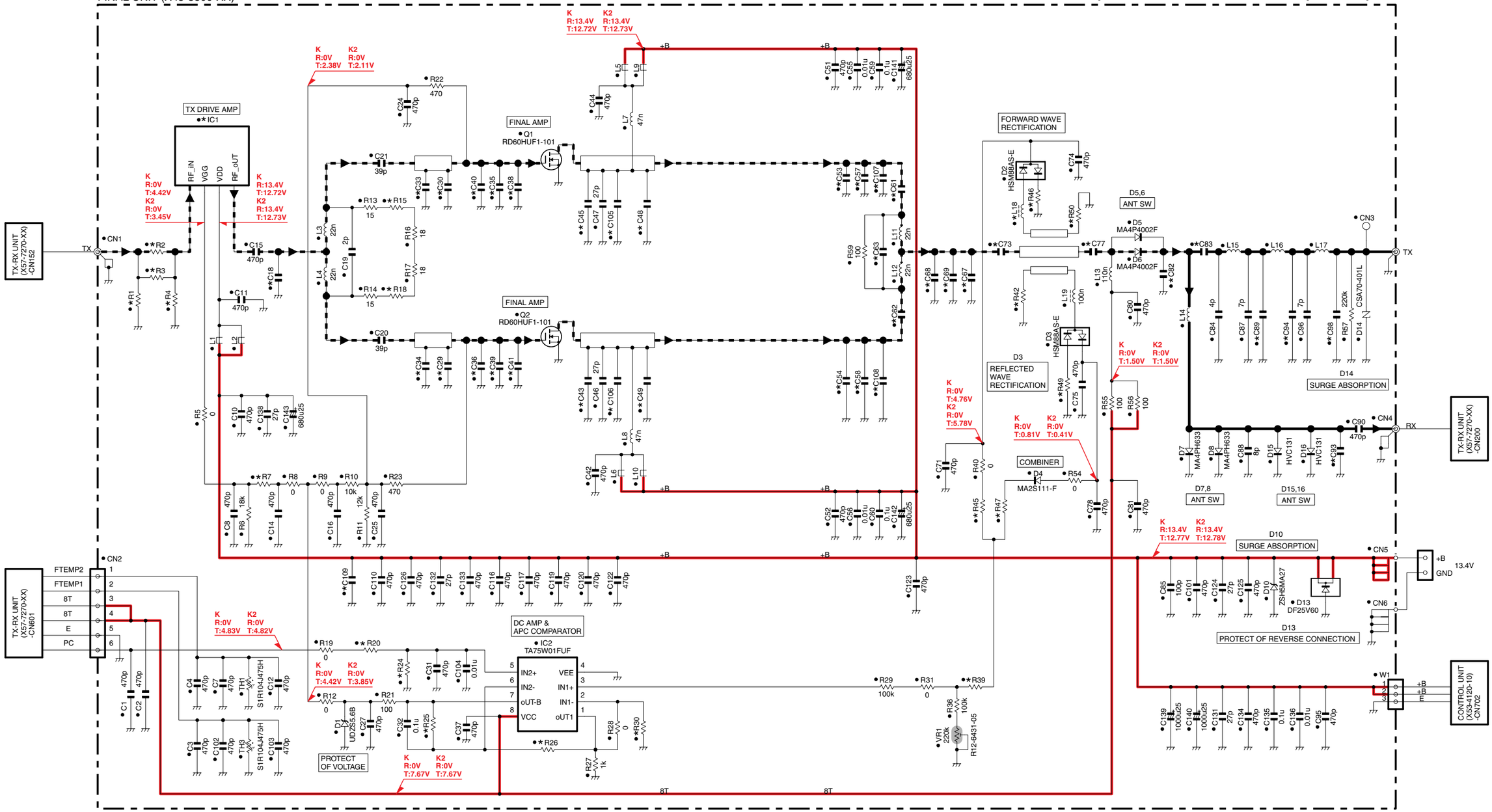
Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC204	10F	Q150	3Q	Q209	8C	Q408	7O	D209	7I	D400	7N
IC209	9C	Q151	3O	Q210	8C	Q409	6P	D210	6G	D401	9N
IC400	10O	Q202	7F	Q403	8R	Q410	6P	D211	7G		
IC401	8O	Q204	7F	Q404	6O	Q411	7N	D212	6D		
IC402	8L	Q205	8B	Q405	6O	Q412	6N	D213	7E		
IC403	9N	Q207	9E	Q406	8L	Q417	7R	D214	6C		
IC600	10I	Q208	8D	Q407	7O	D208	6I	D215	7C		

Component side
Layer 1
Layer 2
Layer 3
Layer 4
Foil side

TK-5810H(B) SCHEMATIC DIAGRAM

FINAL UNIT (X45-3800-XX)

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



X45-3800-XX		IC1	R1	R2	R3	R4	R7	R15	R18	R20	R24	R25	R26	R30
-10	K	RA13H4452M123	820	10	10	820	0	18	18	270k	220k	120k	4.7k	NO
-11	K2	RA13H4047M123	NO	0	NO	NO	820	15	15	220k	270k	330k	3.3k	1k

X45-3800-XX	C18	C29	C30	C33	C34	C35	C36	C38	C39	C40	C41	C43	C45	C48	C49	C105	C106	C109
-10	K	3p	5p	5p	3p	3p	30p	7p	30p	30p	7p	30p	27p	27p	8p	8p	10p	10p	47p
-11	K2	4p	10p	10p	6p	6p	39p	12p	39p	39p	12p	39p	30p	30p	20p	20p	18p	18p	56p

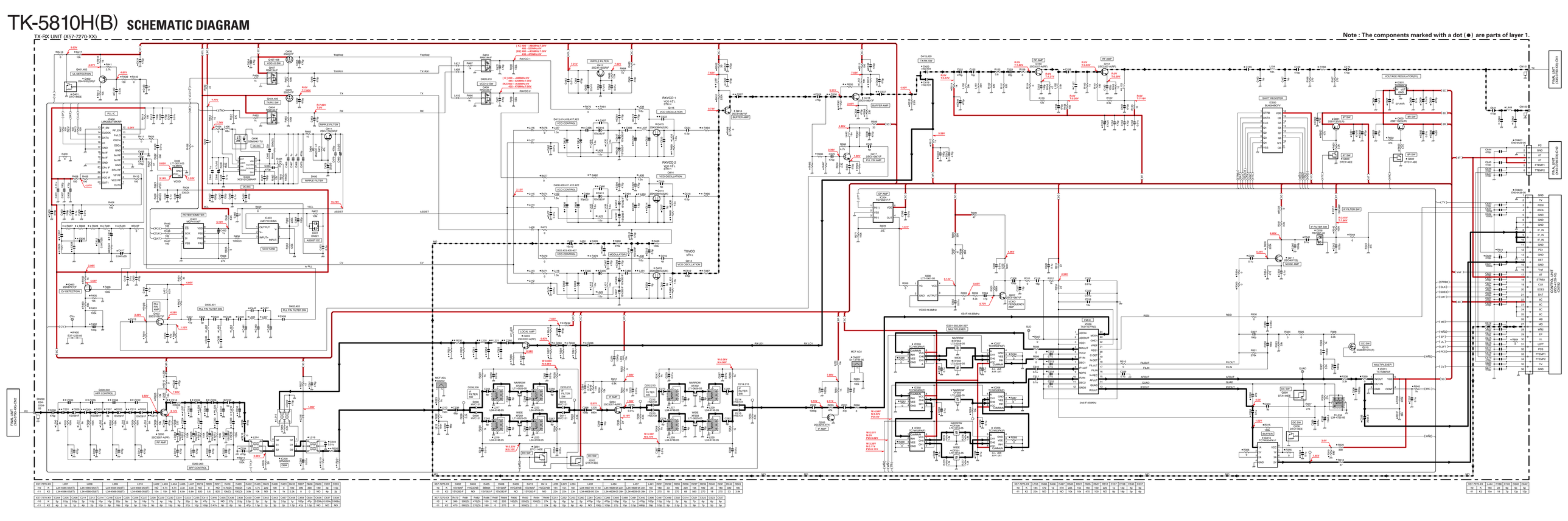
X45-3800-XX	L18	R39	R42	R45	R46	R47	R49	R50	C53	C54	C57	C58
-10	K	82n	220k	56	56k	220	10k	390	68	2p	2p	2p	2p
-11	K2	100n	10k	82	220k	330	0	180	82	NO	NO	10p	10p

X45-3800-XX	C61	C62	C63	C67	C68	C69	C73	C77	C82	C83	C89	C93	C94	C98	C107	C108
-10	K	390p	390p	1.5p	1p	2p	2p	47p	27p	4p	390p	7p	NO	7p	5p	3p	3p
-11	K2	100p	100p	2p	4p	NO	NO	33p	33p	9p	100p	8p	2p	8p	7p	NO	NO

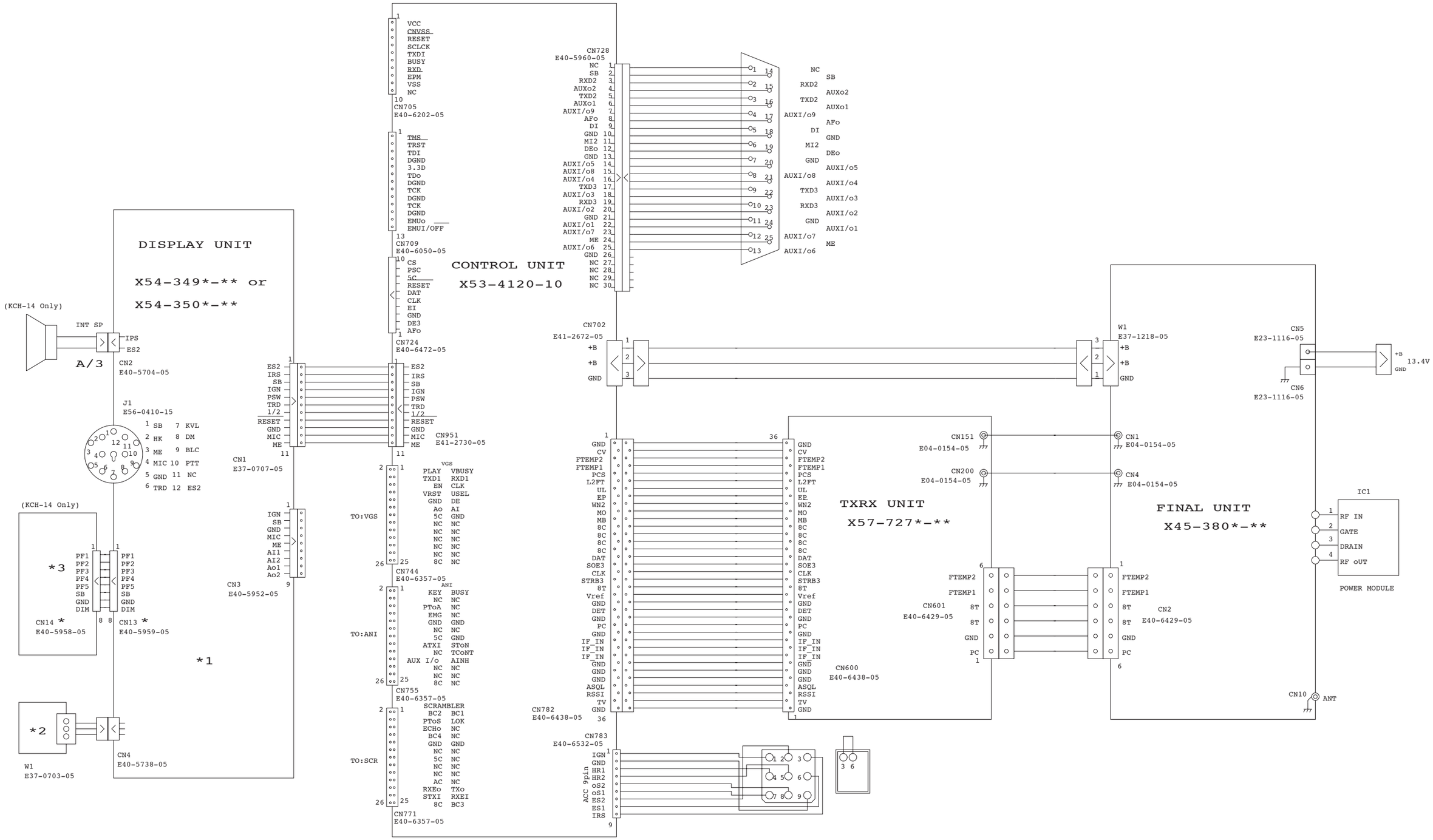
TK-5810H(B) SCHEMATIC DIAGRAM

TX-RX UNIT (X57-7270-XX)

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



INTERCONNECTION DIAGRAM



	CN13	CN14	*1	*2	*3
X54-349 (KCH-14)	○	○	CN14	CN14	CN14
X54-350 (KCH-15)	—	—	CN14	CN14	—

TK-5810H(B)

INTERCONNECTION DIAGRAM

TK-5810H(B)

BLOCK DIAGRAM

TK-5810HB BLOCK DIAGRAM