HF TRANSCEIVER

TS-570DG

SERVICE MANUAL

SUPPLEMENT

KENWOOD

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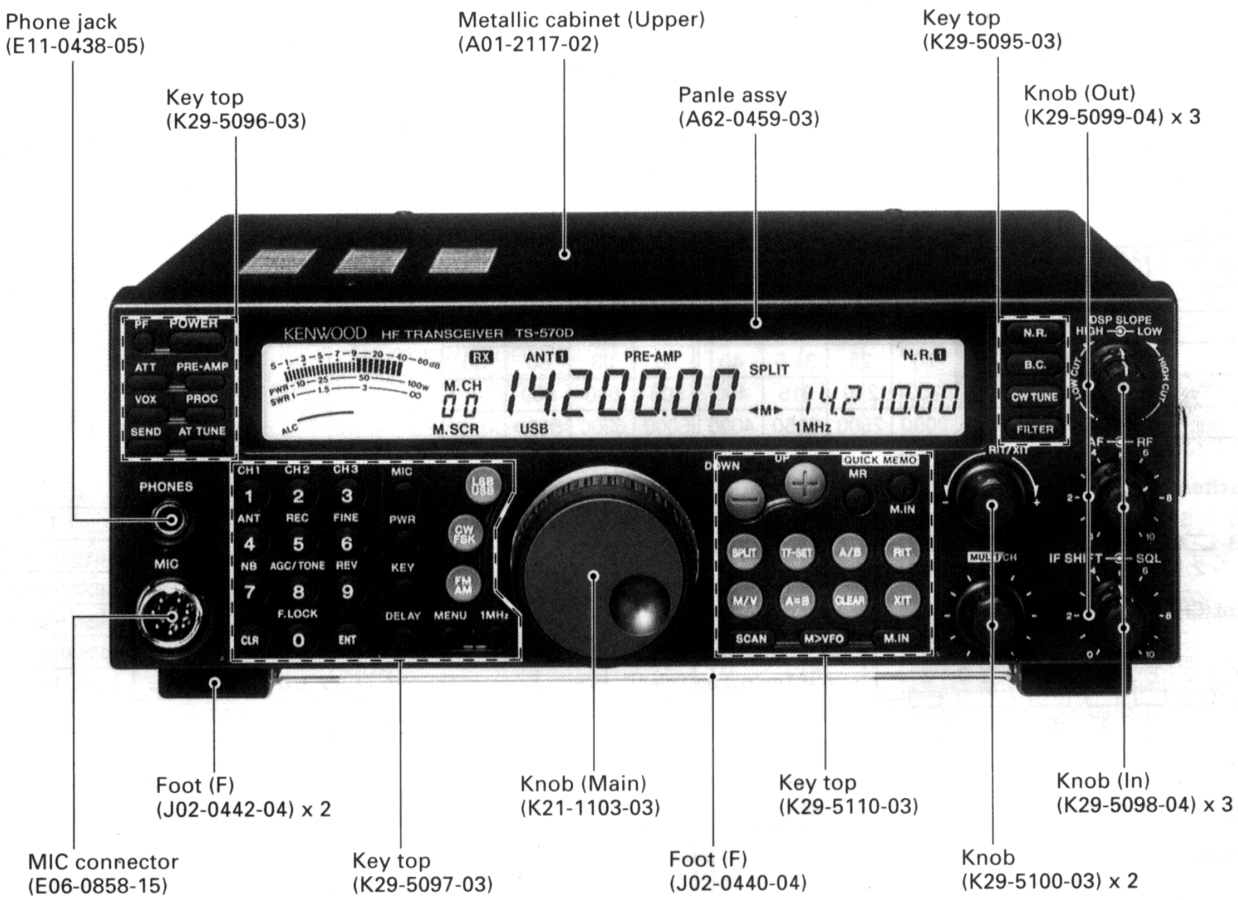
B51-8440-00 (N) 800

This manual is issued for a supplementary reference of the TS-570D. For further information, please refer to the TS-570D service manual (B51-8343-00).



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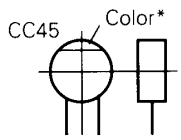
TS-570DG

PARTS LIST

CAPACITORS

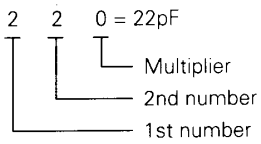
CC 45 TH 1H 220 J
1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, ect.
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

1st word \ 2nd word	A	B	C	D	E	F	G	H	J	K	V
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	3150	4000	5000	6300	8000	–

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Refer to the table above.
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

Dimension 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

RESISTORS

• Chip resistor (Carbon)

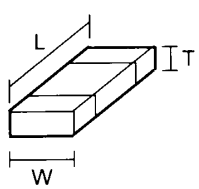
(EX) R D 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7
(Chip) (B,F)

• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

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

Dimension



Dimension (Chip resistor)

Dimension 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		

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

TS-570DG

Ref. No.	Address	New parts	Parts No.	Description	Destination
			TS-570DG		
1	2A		A01-2117-02	METALLIC CABINET (UPPER)	
2	2D		A01-2118-02	METALLIC CABINET (LOWER)	
3	3A		A62-0459-13	PANEL ASSY	
4	2D		B09-0355-05	CAP (COM)	E,E2,E3
5	2B		B38-0765-05	LCD ASSY	
6	2C		B42-3343-04	S/NO LABEL	
7	2C		B42-3395-04	LABEL (FCC)	K
7	2C	*	B72-0651-24	LABEL (TA)	E3
8	3E		B44-2163-04	UPC CODE LABEL	
9	1F		B46-0337-03	WARRANTY CARD ACSY	E,E2,E3
9	1F		B46-0410-40	WARRANTY CARD ACSY	K
21	1F		B59-1034-00	PAMPHLET ACSY	E,E2,E3
22	1F	*	B59-1069-00	PAMPHLET ACSY	
10	1F		B52-0608-30	SCHEMATIC DIAGRAM ACSY	K,E,E2
10	1F		B52-0609-10	SCHEMATIC DIAGRAM ACSY	E3
11	1F	*	B62-0898-00	INSTRUCTION MANUAL (ENGLISH)	
12	1F	*	B62-0899-00	INSTRUCTION MANUAL (GERMAN)	E,E2
13	1F	*	B62-0900-00	INSTRUCTION MANUAL (SPANISH)	E2
14	1F	*	B62-0901-00	INSTRUCTION MANUAL (FRENCH)	E2,E3
15	1F	*	B62-0902-00	INSTRUCTION MANUAL (ITALIAN)	E
16	1F	*	B62-0903-00	INSTRUCTION MANUAL (NETHERLAND)	E2,E3
17	2C	*	B72-1367-04	MODEL NAME PLATE	K,M2
17	2C	*	B72-1368-04	MODEL NAME PLATE	E,E2,E3
18	2D		E04-0167-05	RF COAXIAL CABLE RECEPTACLE	
19	1E		E07-0751-05	DIN PLUG (7 PIN) ACSY	
20	1E		E07-1351-05	DIN PUUG (13 PIN) ACSY	
23	2D		E23-0992-04	EARTH LUG (ANT)	
24	1E		E30-3157-15	DC CORD ACSY	
25	2B		E37-0499-05	FLAT CABLE (26PIN)	
26	1C		E37-0547-15	LEAD WIRE WITH CONNECTOR (2P)	
27	2B		E37-0532-05	FLAT CABLE	
28	2B		E37-0589-05	FLAT COBLE (16P)	
29	1B,1C		E37-0590-05	FLAT CABLE (16P)	
30	1C		E37-0591-05	FLAT CABLE (16P)	
31	1C		E37-0641-05	LEAD WIRE WITH MINIPIN PLUG	
32	1B		E37-0642-05	LEAD WIRE WITH MINIPIN PLUG	
33	2B		E37-0643-05	LEAD WIRE WITH CONNECTOR (PHONE)	
34	2B		E37-0644-05	LEAD WIRE WITH CONNECTOR	
35	1C		E37-0645-05	LEAD WIRE WITH CONNECTOR (6P)	
36	1E		F05-2531-05	FUSE (BLADE; 25A/32V) ACSY	
37	1E		F06-4027-05	FUSE (BLADE; 4A/32V) ACSY	
38	2C		F09-0438-15	FAN MOTOR	
-			F09-0453-05	CAP (ACC2)	E,E2,E3
-			F29-0014-05	INSULATING BUSH	
41	2B		G02-0575-04	FLAT SPRING (TX-RX IC)	
42	1C		G02-0709-04	FLAT SPRING (AVR)	
43	3A		G02-0800-04	FLAT SPRING (MAIN KNOB)	
44	2A,2D		G10-0676-04	FIBROUS SHEET(CASE)	
-			G10-0697-04	FIBROUS SHEET (CASE)	
46	3A		G10-0732-04	FIBROUS SHEET (SP)	
47	2C		G10-0787-04	FIBROUS SHEET (PLL)	
48	2D	*	G13-1658-04	CUSHION	
-			G13-0872-04	CUSHION (DRU-3A)	

Ref. No.	Address	New parts	Parts No.	Description	Destination
-			G13-1327-04	CUSHION	
53	1D		G13-1498-04	CUSHION (SP)	
54	1D		G13-1511-04	CUSHION (FINAL)	
55	2E		H10-6602-02	FOAM PACKING MOLD (F)	
56	2F		H10-6603-02	FOAM PACKING MOLD (R)	
57	2F		H20-1425-03	PROTECTION COVER	
58	1E		H25-0029-04	BAG (FUSE,DIN)	
59	2E		H25-0079-04	BAG (MIC)	
51	2E		H25-0096-04	BAG (LINE FILTER,BAND)	
52	1F		H25-0106-04	BAG (INSTRUCTION)	E2
60	1E		H25-0708-04	BAG (DC CORD)	
61	3F		H52-0775-02	ITEM CARTON CASE	
62	3F		H62-0689-03	OUTER CARTON CASE	
63	3D		J02-0440-04	FOOT (F)	
64	2A,2C		J02-0441-05	FOOT (SIDE)	
65	2C,3D		J02-0442-04	FOOT (F)	
66	3D		J02-0475-05	FOOT (BACK)	
67	1C		J19-1458-05	HOLDER (TX-RX)	
68	3B		J31-0141-04	COLLAR(MIC)	
-			J61-0307-05	BAND (RAT-6P AT)	
69	2E		J61-0307-05	BAND ACSY	E,E2,E3
70	2B		K01-0420-05	HANDLE ASSY	
71	3A		K21-1103-23	KNOB (MAIN)	
72	3B		K29-5095-03	KEYTOP (DSP)	
73	3A		K29-5096-03	KEYTOP (POWER)	
74	3B		K29-5097-03	KEYTOP (10 KEY)	
75	3A		K29-5098-04	KNOB (IN)	
76	3A		K29-5099-04	KNOB (OUT)	
77	3A		K29-5100-03	KNOB (RIT,MULTI)	
78	3B		K29-5110-03	KEYTOP (FUNC)	
79	3A		K29-5111-04	KNOB RING (MAIN)	
80	2E		L79-1408-05	LINE FILTER ACSY	E,E2,E3
81	2C		N15-1040-46	FLAT WASHER (GND)	
A	2B		N32-2606-46	FLAT HEAD MACHIN SCREW (LCD)	
B	2B,3B		N32-3006-46	FLAT HEAD MACHIN SCREW (SUB P)	
C	1A,3D		N33-3006-45	OVAL HEAD MACHIN SCREW (CASE)	
D	1D,2D		N33-3020-45	OVAL HEAD MACHIN SCREW (FAN)	
E	2C		N35-4010-46	BINDING HEAD MACHINE SCREW	
F	1C		N67-3010-46	PAN HEAD SEMS SCREW (FINAL)	
G	1D		N87-3006-46	BRAZIER HEAD TAPTITE SCREW	
H	1B,1C		N87-3008-46	BRAZIER HEAD TAPTITE SCREW	
J	3A		N90-3006-45	TP HEAD MACHIN SCREW	
-			S50-1406-05	TACT SWITCH (MIC PTT)	
MIC	2E		T91-0352-15	MICROPHONE ACSY	
SP	1D	*	T07-0252-35	LOUDSPEAKER (FULLRANGE)	
82	2B		W02-1836-05	ENCODER (MAIN)	
BAT	3B		W09-0873-05	LITHIUM CELL (3V/220mAh)	

TS-570DG

PARTS LIST

FINAL UNIT (X45-353X-XX)

Ref. No.	Address	New parts	Parts No.	Description			Destination
FINAL UNIT (X45-353X-XX) 0-10 : K,M2 2-71 : E,E2,E3							
C1			CK73FB1H103K	CHIP C	0.010UF	K	
C2			CK73FB1E104K	CHIP C	0.10UF	K	
C3			CK73FB1H102K	CHIP C	1000PF	K	
C4			CC73FSL1H821J	CHIP C	820PF	J	
C5			CK73FB1H103K	CHIP C	0.010UF	K	
C6			CK73FB1E104K	CHIP C	0.10UF	K	
C7,8			CK73FB1H102K	CHIP C	1000PF	K	
C9,10			CK73FB1E104K	CHIP C	0.10UF	K	
C11			CE04EW1E100M	ELECTRO	10UF	25WV	
C12,13			CK73FB1H103K	CHIP C	0.010UF	K	
C14			CK73FB1E104K	CHIP C	0.10UF	K	
C15			CK73FB1H102K	CHIP C	1000PF	K	
C16			C90-2193-05	ELECTRO	39UF	25WV	
C17			CE04EW1E100M	ELECTRO	10UF	25WV	
C18			CK73FB1E104K	CHIP C	0.10UF	K	
C19			CC45FSL2H221J	CERAMIC	220PF	J	
C20			CK73FB1E104K	CHIP C	0.10UF	K	
C21			CK73FB1H472K	CHIP C	4700PF	K	
C22			CM73F2H102J	CHIP C	1000PF	J	
C23,24			C91-1004-05	CHIP C	6800PF	J	
C25			CK73FB1E104K	CHIP C	0.10UF	K	
C26			CK73FB1H102K	CHIP C	1000PF	K	
C27			CK73FB1H103K	CHIP C	0.010UF	K	
C28			CM73F2H561J	CHIP C	560PF	J	
C29			CK73FB1E104K	CHIP C	0.10UF	K	
C30			CC45FSL2H151J	CERAMIC	150PF	J	
C31			CK73FB1E104K	CHIP C	0.10UF	K	
C32			CM73F2H122J	CHIP C	1200PF	J	
C33			C90-2194-05	ELECTRO	220UF	25WV	
C34			CK73FB1E104K	CHIP C	0.10UF	K	
C35			CC73FSL1H221J	CHIP C	220PF	J	
C36			CC73FCH1H101J	CHIP C	100PF	J	
C37			CC45FCH2H030C	CERAMIC	3.0PF	C	
C38			CC73FCH1H560J	CHIP C	56PF	J	
C39			CC73FSL1H221J	CHIP C	220PF	J	
C40-42			CK73FB1H103K	CHIP C	0.010UF	K	
C43			CC73FCH1H680J	CHIP C	68PF	J	
C44			CC73FCH1H121J	CHIP C	120PF	J	
C45			CC73FCH1H560J	CHIP C	56PF	J	
C46			C91-1075-05	CERAMIC	470PF	K	
C47			CK73FB1H103K	CHIP C	0.010UF	K	
C48			CK73FB1E104K	CHIP C	0.10UF	K	
C49			CE04EW1E102M	ELECTRO	1000UF	25WV	
C50-52			CK73FB1H103K	CHIP C	0.010UF	K	
C53			CK73FB1E104K	CHIP C	0.10UF	K	
C54			CK73FB1H102K	CHIP C	1000PF	K	
C55-57			CK73FB1E104K	CHIP C	0.10UF	K	
C60			CK73FB1E104K	CHIP C	0.10UF	K	
C61,62			CE04EW1E100M	ELECTRO	10UF	25WV	
C63			CE04EW1E102M	ELECTRO	1000UF	25WV	
C64,65			CK73FB1E104K	CHIP C	0.10UF	K	
C66			CK73FB1H103K	CHIP C	0.010UF	K	
C67			CE04EW1E471M	ELECTRO	470UF	25WV	
C68-74			CK73FB1H103K	CHIP C	0.010UF	K	
C75			CK73FB1H102K	CHIP C	1000PF	K	
C76			CE04EW1A470M	ELECTRO	47UF	10WV	
C77,78			CK73FB1H103K	CHIP C	0.010UF	K	

Ref. No.	Address	New parts	Parts No.	Description			Destination
C79,80			CK73FB1H102K	CHIP C	1000PF	K	
C81-85			CK73FB1H103K	CHIP C	0.010UF	K	
C86-94			CK73FB1H102K	CHIP C	1000PF	K	
C95,96			CC45FSL2H221J	CERAMIC	220PF	J	
C97			CK73FB1E104K	CHIP C	0.10UF	K	
C99			C90-2021-05	ELECTRO	10UF	25WV	
C100			CK73FB1E104K	CHIP C	0.10UF	K	
C101			CM93D2H821J	MICA	820PF	J	
C102			CC45FSL2H561J	CERAMIC	560PF	J	
C103			CM93D2H182J	MICA	1800PF	J	
C104			CC45FSL2H181J	CERAMIC	180PF	J	
C105			CM93D2H821J	MICA	820PF	J	
C106			CK73FB1H103K	CHIP C	0.010UF	K	
C107			CC73FSL1H561J	CHIP C	560PF	J	
C201			CC45FSL2H561J	CERAMIC	560PF	J	
C202			CC45FSL2H121J	CERAMIC	120PF	J	
C203			CC45FSL2H331J	CERAMIC	330PF	J	
C204			CC45FSL2H391J	CERAMIC	390PF	J	
C205			CC45FSL2H471J	CERAMIC	470PF	J	
C206-208			CC45FSL2H151J	CERAMIC	150PF	J	
C209			CK73FB1H103K	CHIP C	0.010UF	K	
C301			CC45FSL2H271J	CERAMIC	270PF	J	
C302			CC45FSL2H151J	CERAMIC	150PF	J	
C303			CC45FSL2H271J	CERAMIC	270PF	J	
C304			CC45FSL2H221J	CERAMIC	220PF	J	
C305			CC45FSL2H680J	CERAMIC	68PF	J	
C306			CC45FSL2H271J	CERAMIC	270PF	J	
C307			CK73FB1H103K	CHIP C	0.010UF	K	
C401			CC45FSL2H181J	CERAMIC	180PF	J	E,E2,E3
C402			CC45FSL2H470J	CERAMIC	47PF	J	E,E2,E3
C403			CC45FSL2H271J	CERAMIC	270PF	J	E,E2,E3
C404,405			CC45FSL2H151J	CERAMIC	150PF	J	E,E2,E3
C406			CK73FB1H103K	CHIP C	0.010UF	K	E,E2,E3
C407			CC45FSL2H181J	CERAMIC	180PF	J	
C408			CC45FSL2H390J	CERAMIC	39PF	J	
C409			CC45FSL2H181J	CERAMIC	180PF	J	K,M2
C409			CC45FSL2H331J	CERAMIC	330PF	J	E,E2,E3
C410			CC45FSL2H121J	CERAMIC	120PF	J	
C411			CC45FSL2H151J	CERAMIC	150PF	J	
C412			CK73FB1H103K	CHIP C	0.010UF	K	
C413			CC45FSL2H050C	CERAMIC	5.0PF	C	K,M2
C415			CC45FSL2H121J	CERAMIC	120PF	J	K,M2
C416			CC45FSL2H050C	CERAMIC	5.0PF	C	E,E2,E3
C501			CC45FSL2H101J	CERAMIC	100PF	J	
C502			CC45FSL2H470J	CERAMIC	47PF	J	
C503			CC45FSL2H221J	CERAMIC	220PF	J	
C504			CC45FSL2H150J	CERAMIC	15PF	J	
C505			CC45FSL2H121J	CERAMIC	120PF	J	
C506			CK73FB1H103K	CHIP C	0.010UF	K	
C601			CC45FSL2H680J	CERAMIC	68PF	J	
C602			CC45FSL2H470J	CERAMIC	47PF	J	
C603			CC45FSL2H121J	CERAMIC	120PF	J	
C604			CC45FSL2H100D	CERAMIC	10PF	D	
C605			CC45FSL2H120J	CERAMIC	12PF	J	
C606			CC45FSL2H680J	CERAMIC	68PF	J	
C607			CK73FB1H103K	CHIP C	0.010UF	K	
C800			CM93D2H560J	MICA	56PF	J	
C801-804			C91-3126-05	HV C	10PF	3KV	
C805			C91-3127-05	HV C	18PF	3KV	
C806			C91-3128-05	HV C	39PF	3KV	

PARTS LIST

FINAL UNIT (X45-353X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
C807-811			C91-3123-05	HV C 150PF 3KV	
C812			C91-3126-05	HV C 10PF 3KV	
C813,814			C91-3115-05	HV C 10PF 2KV	
C815			C91-3126-05	HV C 10PF 3KV	
C816			C91-3127-05	HV C 18PF 3KV	
C817			C91-3128-05	HV C 39PF 3KV	
C818-822			C91-3123-05	HV C 150PF 3KV	
C823-869			CK73FB1H103K	CHIP C 0.010UF K	
C835-869			CK73FB1H103K	CHIP C 0.010UF K	
C870-873			C91-3115-05	HV C 10PF 2KV	
C874,875			CK73FB1H103K	CHIP C 0.010UF K	
C876-879			C91-3115-05	HV C 10PF 2KV	
C901			CK73FB1E104K	CHIP C 0.10UF K	
C902			CC73FCH1H100D	CHIP C 10PF D	
C903			CE04EW1H470M	ELECTRO 47UF 50WV	
C951-954			CK73EF1C105Z	CHIP C 1.0UF Z	
TC1			C05-0030-15	TRIMMER CAPACITOR (20PF)	
TC2			C05-0031-15	TRIMMER CAPACITOR (10PF)	
CN1			E04-0191-05	RF COAXIAL CABLE RECEPTACLE	
CN2			E04-0154-05	RF COAXIAL CABLE RECEPTACLE	
CN3,4			E40-5764-05	PIN CONNECTOR FOR INSIDE	
CN5			E40-3246-05	PIN CONNECTOR FOR INSIDE (FAN)	
CN6			E40-3240-05	PIN CONNECTOR FOR INSIDE (5P)	
CN8			E23-0996-05	TERMINAL	
CN10-12			E23-0996-05	TERMINAL	
CN13			E40-3237-05	PIN CONNECTOR FOR INSIDE (SP)	
CN14,15			E04-0154-05	RF COAXIAL CABLE RECEPTACLE	
CN901			E40-3300-05	PIN CONNECTOR FOR INSIDE (PHONE)	
J901			E11-0438-05	PHONE JACK	
W1	1C		E37-0594-05	LEAD WIRE WITH CONNECTOR	K,M2
W1	1C		E37-0678-05	LEAD WIRE WITH CONNECTOR	E,E2,E3
W4	1C		E37-0198-05	LEAD WIRE WITH MINIPIN PLUG	
F1			F53-0093-05	FUSE (5A/125V)	
F2			F06-4027-05	FUSE BLADE (4A/32V)	
A1,2			J13-0410-05	FUSE HOLDER	
L2			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L3			L40-3395-48	SMALL FIXED INDUCTOR (3.3UH)	
L4			L39-0481-05	TROIDAL COIL	
L5-7			L33-0699-05	CHOKE COIL	
L8			L39-1257-05	TROIDAL COIL	
L9			L33-0617-15	CHOKE COIL	
L10			L40-4795-48	SMALL FIXED INDUCTOR (4.7UH)	
L11,12			L33-0699-05	CHOKE COIL	
L13			L39-0482-05	TROIGAL COIL	
L14			L33-0617-15	CHOKE COIL	
L15			L33-0651-05	CHOKE COIL	
L16			L39-1252-15	TROIDAL COIL	
L17			L40-2221-33	SMALL FIXED INDUCTOR	
L18			L39-0480-15	TROIDAL COIL	
L19			L40-2221-33	SMALL FIXED INDUCTOR	
L20			L39-0496-05	TROIDAL COIL	
L21			L39-0415-25	TROIDAL COIL	
L22,23			L40-2785-48	SMALL FIXED INDUCTOR (270NH)	
L24,25			L79-0558-05	FILTER	E,E2,E3
L26			L40-1001-12	SMALL FIXED INDUCTOR	
L27			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L28,29			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L30-32			L40-1001-12	SMALL FIXED INDUCTOR	

Ref. No.	Address	New parts	Parts No.	Description	Destination
L101			L39-1259-05	TROIDAL COIL	
L102			L39-1260-05	TROIDAL COIL	
L103			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L201			L39-1224-05	TROIDAL COIL	
L202			L39-1225-05	TROIDAL COIL	
L203			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L301			L39-1266-05	TROIDAL COIL	
L302			L39-1258-05	TROIDAL COIL	
L303			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L401			L39-1221-05	TROIDAL COIL	E,E2,E3
L402			L39-1220-05	TROIDAL COIL	E,E2,E3
L403			L40-1015-48	SMALL FIXED INDUCTOR	E,E2,E3
L404			L39-1221-05	TROIDAL COIL	
L405			L39-1220-05	TROIDAL COIL	
L406			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L501			L34-1280-05	COIL (6.5T)	
L502			L34-1279-05	COIL (7.5T)	
L503			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L601			L34-1282-05	COIL (4.5T)	
L602			L34-1281-05	COIL (5.5T)	
L603			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L801,802			L39-1264-05	TROIDAL COIL	
L803			L39-1263-05	TROIDAL COIL	
L804			L34-4476-05	COIL (7.5T)	
L805-807			L34-4474-05	COIL (1.5T)	
L808			L34-4488-05	COIL (0.5T)	
L809			L34-4489-05	COIL (3.5T)	
L810-832			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
R1			RK73FB2A331J	CHIP R 330 J 1/10W	
R2			RK73FB2A681J	CHIP R 680 J 1/10W	
R3			RK73FB2A101J	CHIP R 100 J 1/10W	
R4,5			RK73FB2A6R8J	CHIP R 6.8 J 1/10W	
R6			R92-1221-05	CHIP R 82 J 1/4W	
R7			R92-1242-05	CHIP R 6.8 J 1/4W	
R8			R92-1243-05	CHIP R 8.2 J 1/4W	
R9			RK73FB2A331J	CHIP R 330 J 1/10W	
R10			R92-1318-05	CHIP R 100 J 1W	
R11,12			R92-0696-05	CHIP R 33 J 1/4W	
R13			R92-1318-05	CHIP R 100 J 1W	
R14-17			RS14CB3A5R6J	FL-PROOF RS 5.6 J 1W	
R18,19			RS14CB3A150J	FL-PROOF RS 15 J 1W	
R20			RK73FB2A391J	CHIP R 390 J 1/10W	
R21,22			RS14CB3A4R7J	FL-PROOF RS 4.7 J 1W	
R23			RK73FB2A4R7J	CHIP R 4.7 J 1/10W	
R24			R92-0686-05	CHIP R 33 J 1/2W	
R25			R92-1212-05	CHIP R 27 J 1/2W	
R26,27			R92-1213-05	CHIP R 100 J 1/2W	
R28			RK73FB2A470J	CHIP R 47 J 1/10W	
R29-32			RK73FB2A104J	CHIP R 100K J 1/10W	
R33			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R34			R92-1292-05	CHIP R 68 J 1W	
R35			R92-1288-05	CHIP R 56 J 1W	
R36,37			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R38,39			RK73FB2A181J	CHIP R 180 J 1/10W	
R40,41			RK73FB2A103J	CHIP R 10K J 1/10W	
R42,43			RK73FB2A563J	CHIP R 56K J 1/10W	
R44,45			RK73FB2A103J	CHIP R 10K J 1/10W	
R46			RK73FB2A101J	CHIP R 100 J 1/10W	
R47			RK73FB2A121J	CHIP R 120 J 1/10W	

TS-570DG

PARTS LIST

FINAL UNIT (X45-353X-XX)
CONTROL UNIT (X53-369X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
R48			RK73FB2A101J	CHIP R 100 J 1/10W	
R49			RK73FB2A121J	CHIP R 120 J 1/10W	
R50			RK73FB2A822J	CHIP R 8.2K J 1/10W	
R51			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R52,53			RK73FB2A103J	CHIP R 10K J 1/10W	
R54-56			RK73FB2A101J	CHIP R 100 J 1/10W	
R57-60			R92-2569-05	JUMPER WIRE 0 OHM	K,M2
R901,902			R92-1205-05	CHIP R 120 J 1/4W	
VR1			R12-6730-05	TRIMMING POT. 220	
VR2			R12-6737-05	TRIMMING POT. 3.3K	
VR3			R12-6730-05	TRIMMING POT. 220	
VR4			R12-6738-05	TRIMMING POT. 4.7K	
W2,3			R92-0150-05	JUMPER REST 0 OHM	
K1			S51-2417-05	RELAY	
K2			S51-1429-05	RELAY	
K3			S51-2417-05	RELAY	
K4			S76-0414-05	RELAY	
K101,102			S51-1420-05	RELAY	
K201,202			S51-1420-05	RELAY	
K301,302			S51-1420-05	RELAY	
K401,402			S51-1420-05	RELAY	E,E2,E3
K403,404			S51-1420-05	RELAY	
K501,502			S51-1420-05	RELAY	
K601,602			S51-1420-05	RELAY	
K801-814			S76-0419-05	RELAY	
K815-821			S76-0415-05	RELAY	
K822,823			S76-0419-05	RELAY	
D1			MA27T-B	VARISTOR	
D2-4			MA27-B	VARISTOR	
D5,6			1SS101	DIODE	
D7-9			LFB01	DIORD	
D10,11			DSA301LA	DIORD	
D12			SG-5L(R)	DIORD	
D13			ERZ-M10DK220	SURGE ABSORBER	
D14			02CZ18(X,Y)	ZENER DIORD	
D15			LFB01	DIORD	
D16			DAN202K	DIORD	
D17			LFB01	DIORD	
D18-23			1SS226	DIORD	
D24,25			1SS101	DIORD	
D26			DSA301LA	DIORD	
D101			LFB01	DIORD	
D201			LFB01	DIORD	
D301			LFB01	DIORD	
D401			LFB01	DIORD	E,E2,E3
D402			LFB01	DIORD	
D501			LFB01	DIORD	
D601			LFB01	DIORD	
D801-823			LFB01	DIORD	
IC1			TA7805S	IC (VOLTAGE REGULATOR/ +5V)	
IC2			TA7808S	IC (REGULATOR)	
IC3			TA75S393F	IC	
IC4			SN74S74NS	IC (FLIP-FLOP)	
IC5			M54562P	IC (500mA DARLINGTON)	
IC6			NJU3714G	IC	
IC7-9			UPD6345GS	IC	
IC10			BA10T	IC (REGULATOR)	
Q1			2SC1971	TRANSISTOR (PRI-DRIV AMP)	
Q2,3			2SC3133	TRANSISTOR (DRIV AMP)	
Q4,5			2SC2879	TRANSISTOR (POWER AMP)	
Q6			2SC3421(Y)	TRANSISTOR	
Q7-9			FMC2	TRANSISTOR	
Q10			DTC114EK	DIGITAL TRANSISTOR	
Q11			DTC143TK	DIGITAL TRANSISTOR	
Q12,13			DTD123EK	DIGITAL TRANSISTOR	
Q14,15			2SC2714(Y)	TRANSISTOR	
Q16			DTC114EK	DIGITAL TRANSISTOR	
TH1			5TP-41S	THERMISTOR	

CONTROL UNIT (X53-369X-XX)

0-12 : K 0-22 : M2 2-74 : E 2-75 : E2 2-76 : E3

Ref. No.	Address	New parts	Parts No.	Description	Destination
C1			CK73FB1H103K	CHIP C 0.010UF K	
C2			C92-0009-05	CHIP-TAN 4.7UF 10WV	
C3,4			CK73FB1H102K	CHIP C 1000PF K	
C7			CK73FB1H103K	CHIP C 0.010UF K	
C8			C92-0009-05	CHIP-TAN 4.7UF 10WV	
C9			CK73FF1E104Z	CHIP C 0.10UF Z	
C10			CK73FB1H102K	CHIP C 1000PF K	
C11			CK73FF1C105Z	CHIP C 1.0UF Z	
C12			CK73FB1H103K	CHIP C 0.010UF K	
C13			CK73FF1E104Z	CHIP C 0.10UF Z	
C14,15			CC73FCH1H330J	CHIP C 33PF J	
C16,17			CK73FB1H103K	CHIP C 0.010UF K	
C18			CK73FF1E104Z	CHIP C 0.10UF Z	
C19			CK73FF1C105Z	CHIP C 1.0UF Z	
C20,21			CK73FB1H103K	CHIP C 0.010UF K	
C22,23			C92-0037-05	CHIP-ELE 10UF 16WV	
C24-27			CK73FB1H102K	CHIP C 1000PF K	
C28,29			CK73FF1E104Z	CHIP C 0.10UF Z	
C30			CK73FF1C105Z	CHIP C 1.0UF Z	
C31,32			CK73FF1E104Z	CHIP C 0.10UF Z	
C33			C92-0040-05	CHIP-ELE 47UF 16WV	
C36,37			CC73FCH1H220J	CHIP C 22PF J	
C103			CK73FF1E104Z	CHIP C 0.10UF Z	
C104-107			CK73FB1H102K	CHIP C 1000PF K	
C108,109			CK73FF1E104Z	CHIP C 0.10UF Z	
C110-118			CK73FB1H102K	CHIP C 1000PF K	
C119			CK73FF1E104Z	CHIP C 0.10UF Z	
C120			CK73FB1H102K	CHIP C 1000PF K	
C121-124			CK73FB1H103K	CHIP C 0.010UF K	
C125			CK73FF1E104Z	CHIP C 0.10UF Z	
C126			CK73FB1H103K	CHIP C 0.010UF K	
C127,128			CK73FB1H102K	CHIP C 1000PF K	
C129-134			CK73FB1H103K	CHIP C 0.010UF K	
C135-150			CK73FB1H102K	CHIP C 1000PF K	
C151-154			CC73FCH1H101J	CHIP C 100PF J	
C155			CK73FF1E104Z	CHIP C 0.10UF Z	
C156			CK73FB1H102K	CHIP C 1000PF K	
C158-162			CK73FB1H102K	CHIP C 1000PF K	
C163-169			CK73FB1H102K	CHIP C 1000PF K	
C170-172			CK73FF1E104Z	CHIP C 0.10UF Z	
C173-183			CK73FB1H102K	CHIP C 1000PF K	
C184			CK73FF1E104Z	CHIP C 0.10UF Z	
C501			C92-0004-05	CHIP-TAN 1.0UF 16WV	
C502,503			CK73GB1H102K	CHIP C 1000PF K	
C504,505			CK73EB1H223K	CHIP C 0.022UF K	

PARTS LIST

CONTROL UNIT (X53-369X-XX)

Ref. No.	Address	New parts	Parts No.	Description			Destination
C506			CK73EB1H105Z	CHIP C	1.0UF	Z	
C507-509			CK73FF1E104Z	CHIP C	0.10UF	Z	
C510			CC73GSL1H221J	CHIP C	220PF	J	
C511,512			CK73FF1E104Z	CHIP C	0.10UF	Z	
C513			CC73FCH1H102J	CHIP C	1000PF	J	
C514			C92-0004-05	CHIP-TAN	1.0UF	16WV	
C515			C92-0038-05	CHIP-ELE	22UF	16WV	
C516			C90-2073-05	ELECTRO	6.8UF	16WV	
C517			C92-0037-05	CHIP-ELE	10UF	16WV	
C518,519			CK73FF1E104Z	CHIP C	0.10UF	Z	
C520,521			CK73GB1H102K	CHIP C	1000PF	K	
C522			C92-0037-05	CHIP-ELE	10UF	16WV	
C523,524			CK73FF1E104Z	CHIP C	0.10UF	Z	
C525-527			CK73GB1H562K	CHIP C	5600PF	K	
C528			CK73FB1H682K	CHIP C	6800PF	K	
C530			CK73GB1H102K	CHIP C	1000PF	K	
C531			CK73GB1H562K	CHIP C	5600PF	K	
C532			C92-0037-05	CHIP-ELE	10UF	16WV	
C533			CK73GB1H103K	CHIP C	0.010UF	K	
C534			CC73GCH1H101J	CHIP C	100PF	J	
C535			C92-0037-05	CHIP-ELE	10UF	16WV	
C537			C92-0040-05	CHIP-ELE	47UF	16WV	
C538			CK73GB1H103K	CHIP C	0.010UF	K	
C539			CK73GB1H102K	CHIP C	1000PF	K	
C540			CK73FB1E104K	CHIP C	0.10UF	K	
C541			CK73FF1C105Z	CHIP C	1.0UF	Z	
C542-544			C92-0507-05	CHIP-TAN	4.7UF	6.3WV	
C546-549			C92-0507-05	CHIP-TAN	4.7UF	6.3WV	
C550			C92-0040-05	CHIP-ELE	47UF	16WV	
C601			CK73FB1E104K	CHIP C	0.10UF	K	
C602			CC73GSL1H471J	CHIP C	470PF	J	
C603			CK73FB1E104K	CHIP C	0.10UF	K	
C604			CC73GSL1H471J	CHIP C	470PF	J	
C605			CK73FB1E104K	CHIP C	0.10UF	K	
C606			CC73GSL1H471J	CHIP C	470PF	J	
C607			CK73FB1E104K	CHIP C	0.10UF	K	
C608			CC73GSL1H471J	CHIP C	470PF	J	
C609			CK73FB1E104K	CHIP C	0.10UF	K	
C610			CC73GSL1H471J	CHIP C	470PF	J	
C611			CK73FB1E104K	CHIP C	0.10UF	K	
C612			CC73GSL1H471J	CHIP C	470PF	J	
C613,614			CC73GCH1H100D	CHIP C	10PF	D	
C615-617			CK73GB1H103K	CHIP C	0.010UF	K	
C701-733			CC73GCH1H101J	CHIP C	100PF	J	
CN1			E40-5736-05	PIN CONNECTOR FOR INSIDE (26P)			
CN2			E40-3252-05	PIN CONNECTOR FOR INSIDE (8P)			
CN3			E40-5761-05	PIN CONNECTOR FOR INSIDE (26P)			
CN4,5			E40-5762-05	PIN CONNECTOR FOR INSIDE (16P)			
CN6			E40-0411-05	PIN CONNECTOR FOR INSIDE (4P)			
CN6			E40-5047-05	PIN CONNECTOR FOR INSIDE (4P)			
CN501			E02-2032-05	IC SOCKET (32P)			
CN502			E40-5762-05	PIN CONNECTOR FOR INSIDE (16P)			
CN503			E40-3247-05	PIN CONNECTOR FOR INSIDE (3P)			
W501			E37-0646-05	LEAD WIRE WITH CONNECTOR			
CN7			J19-1570-05	BATT HOLDER			
L1,2			L40-4705-48	SMALL FIXED INDUCTOR (47UH)			
L3,4			L40-1001-18	SMALL FIXED INDUCTOR			
L5,6			L40-1292-18	SMALL FIXED INDUCTOR			
L7			L40-1095-48	SMALL FIXED INDUCTOR (1UH)			

Ref. No.	Address	New parts	Parts No.	Description				Destination
L8-10			L40-4705-48	SMALL FIXED INDUCTOR (47UH)				
L11			L40-1292-18	SMALL FIXED INDUCTOR				
L12			L40-4705-48	SMALL FIXED INDUCTOR (47UH)				
L501			L40-1095-48	SMALL FIXED INDUCTOR (1UH)				
L502			L40-4705-48	SMALL FIXED INDUCTOR (47UH)				
L503			L40-1292-18	SMALL FIXED INDUCTOR				
L504			L40-1095-48	SMALL FIXED INDUCTOR (1UH)				
L505			L40-1001-18	SMALL FIXED INDUCTOR				
L506			L40-1095-48	SMALL FIXED INDUCTOR (1UH)				
X1			L77-1681-05	CRYSTAL RESONATOR (4.51MHZ)				
X2			L77-1680-05	CRYSTAL RESONATOR (11.0592MHZ)				
X501			L77-1679-05	CRYSTAL RESONATOR(12.288MHZ)				
CP1-7			R90-1014-05	MULTI-COMP R				
CP8,9			R90-0748-05	MULTI-COMP R (47Kx4)				
CP10			R90-1014-05	MULTI-COMP R				
CP11			R90-0748-05	MULTI-COMP R (47Kx4)				
CP12			R90-0714-05	MULTI-COMP R (10Kx4)				
CP13			R90-1014-05	MULTI-COMP R				
CP506-511			R90-1014-05	MULTI-COMP R				
R1			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R2			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R3			RK73FB2A104J	CHIP R	100K	J	1/10W	
R4			RK73FB2A155J	CHIP R	1.5M	J	1/10W	
R5-7			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R8			RK73FB2A473J	CHIP R	47K	J	1/10W	
R9			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R10,11			RK73FB2A100J	CHIP R	10	J	1/10W	
R13			RK73FB2A103J	CHIP R	10K	J	1/10W	
R14			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R15			RK73FB2A473J	CHIP R	47K	J	1/10W	
R16			RK73FB2A105J	CHIP R	1.0M	J	1/10W	
R17			R92-0670-05	CHIP R	0 OHM			
R18			RK73FB2A473J	CHIP R	47K	J	1/10W	
R19			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R21			R92-0670-05	CHIP R	0 OHM			
R22			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R24			RK73FB2A102J	CHIP R	1.0K	J	1/10W	M2,E3
R25			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E,E2,E3
R26			RK73FB2A102J	CHIP R	1.0K	J	1/10W	M2,E2
R27			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E
R31,32			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R33			RK73FB2A103J	CHIP R	10K	J	1/10W	
R34			RK73FB2A473J	CHIP R	47K	J	1/10W	
R35			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R36			RK73FB2A471J	CHIP R	470	J	1/10W	
R37			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R38,39			RK73FB2A473J	CHIP R	47K	J	1/10W	
R41			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K,E,E2,E3
R42			RK73FB2A473J	CHIP R	47K	J	1/10W	
R44			RK73FB2A473J	CHIP R	47K	J	1/10W	
R45			RK73FB2A104J	CHIP R	100K	J	1/10W	
R46			RK73FB2A470J	CHIP R	47	J	1/10W	
R47			R92-0670-05	CHIP R	0 OHM			
R51			R92-0670-05	CHIP R	0 OHM			
R52,53			RK73FB2A103J	CHIP R	10K	J	1/10W	
R101-103			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R104-109			RK73FB2A101J	CHIP R	100	J	1/10W	
R114-133			RK73FB2A101J	CHIP R	100	J	1/10W	
R135-138			RK73FB2A101J	CHIP R	100	J	1/10W	

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PARTS LIST

CONTROL UNIT (X53-369X-XX)
TX-RX UNIT (X57-500X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
R139,140			RK73FB2A473J	CHIP R 47K J 1/10W	
R141,142			RK73FB2A103J	CHIP R 10K J 1/10W	
R143,144			RK73FB2A104J	CHIP R 100K J 1/10W	
R147,148			RK73FB2A104J	CHIP R 100K J 1/10W	
R501			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R502,503			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R504			RK73GB1J334J	CHIP R 330K J 1/16W	
R505			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R506			RK73GB1J683J	CHIP R 68K J 1/16W	
R507,508			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R509			RK73GB1J334J	CHIP R 330K J 1/16W	
R510			RK73GB1J223J	CHIP R 22K J 1/16W	
R511			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R512			RK73GB1J103J	CHIP R 10K J 1/16W	
R513			RK73GB1J104J	CHIP R 100K J 1/16W	
R514			RK73GB1J103J	CHIP R 10K J 1/16W	
R515			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R516			RK73GB1J682J	CHIP R 6.8K J 1/16W	
R517,518			RK73GB1J103J	CHIP R 10K J 1/16W	
R519			RK73GB1J274J	CHIP R 270K J 1/16W	
R520			RK73GB1J123J	CHIP R 12K J 1/16W	
R521-523			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R525			RK73GB1J100J	CHIP R 10 J 1/16W	
R528,529			RK73GB1J183J	CHIP R 18K J 1/16W	
R530,531			RK73GB1J103J	CHIP R 10K J 1/16W	
R532,533			RK73GB1J183J	CHIP R 18K J 1/16W	
R534			RK73GB1J103J	CHIP R 10K J 1/16W	
R535-537			RK73GB1J153J	CHIP R 15K J 1/16W	
R538			RK73GB1J103J	CHIP R 10K J 1/16W	
R539,540			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R541			RK73GB1J223J	CHIP R 22K J 1/16W	
R542			RK73GB1J101J	CHIP R 100 J 1/16W	
R544			RK73GB1J561J	CHIP R 560 J 1/16W	
R545-550			R92-0670-05	CHIP R 0 OHM	
R553-555			R92-0670-05	CHIP R 0 OHM	
R556			RK73GB1J561J	CHIP R 560 J 1/16W	
R557			RK73GB1J682J	CHIP R 6.8K J 1/16W	
R558			RK73GB1J104J	CHIP R 100K J 1/16W	
R559-565			RK73GB1J223J	CHIP R 22K J 1/16W	
R566			RK73GB1J270J	CHIP R 27 J 1/16W	
R602-605			RK73GB1J473J	CHIP R 47K J 1/16W	
R610			RK73GB1J473J	CHIP R 47K J 1/16W	
R612			RK73GB1J101J	CHIP R 100 J 1/16W	
R613			RK73GB1J473J	CHIP R 47K J 1/16W	
R615			RK73GB1J473J	CHIP R 47K J 1/16W	
R616			RK73GB1J101J	CHIP R 100 J 1/16W	
R618-621			RK73GB1J101J	CHIP R 100 J 1/16W	
R623,624			RK73GB1J473J	CHIP R 47K J 1/16W	
R625			RK73GB1J103J	CHIP R 10K J 1/16W	
R626			RK73GB1J104J	CHIP R 100K J 1/16W	
R627-629			R92-0670-05	CHIP R 0 OHM	
D1-4			1SS355	DIODE	
D5			DAN202U	DIODE	
D6,7			1SS355	DIODE	
D8,9			02CZ8.2(Y)	DIODE	
D10			DAN202U	DIODE	
D11			1SS355	DIODE	
IC1			AT24C64N10SI27	IC (64kbit SERIAL EEPROM)	
IC2			CAT93C57KI	IC	

Ref. No.	Address	New parts	Parts No.	Description	Destination
IC3			UPD75004GB-746	IC (4bit MICROPROCESSOR)	
IC4			M62003FP	IC	
IC5			CXD1095Q	IC	
IC6		*	M37733MHB209FP	IC (CPU)	
IC7,8			TC4052BF	IC (4CH MPX/DE-MPX)	
IC9			NJM78L05UA	IC (VOLTAGE REGULATOR/ +5V)	
IC10			NJM78L06UA	IC (VOLTAGE REGULATOR/ +6V)	
IC11			NJM78L08UA	IC (VOLTAGE REGULATOR/ +8V)	
IC501			NJM2100M	IC (OP AMPLIFIER)	
IC502			BU4066BCFV	IC (ANALOG SWITCH X4)	
IC503			NJM2100M	IC (OP AMPLIFIER)	
IC504			AK4506-VS	IC (AD/DA-COVERTOR)	
IC505,506			NJM2100M	IC (OP AMPLIFIER)	
IC507			ADSP2181KS-115	IC	
IC508			TC74HC4040AF	IC (BINARY COUNTER)	
IC511			TC7S04F	IC (2CH NAND GATE)	
IC512		*	27C01012DJSHA	IC	
IC513			NJM78L05UA	IC (VOLTAGE REGULATOR/ +5V)	
Q1,2			DTC143EK	DIGITAL TRANSISTOR	
Q3,4			DTC114EK	DIGITAL TRANSISTOR	
Q5			DTA143EK	DIGITAL TRANSISTOR	
Q6			DTC143EK	DIGITAL TRANSISTOR	
Q7			DTA143EK	DIGITAL TRANSISTOR	
Q8			DTC143TK	DIGITAL TRANSISTOR	
Q9			DTC143EK	DIGITAL TRANSISTOR	
Q10			DTA143EK	DIGITAL TRANSISTOR	
Q11,12			DTC143EK	DIGITAL TRANSISTOR	
100	2B	*	X59-4110-00	MODULE UNIT (ENCODER)	

TX-RX UNIT (X57-500X-XX)
0-10 : K,M2 2-71 : E,E2,E3

C1,2			CK73FB1H103K	CHIP C	0.010UF	K
C3			CC73FCH1H470J	CHIP C	47PF	J
C4			CC73FCH1H070D	CHIP C	7.0PF	D
C5			CK73FF1E104Z	CHIP C	0.10UF	Z
C6			CC73FCH1H390J	CHIP C	39PF	J
C7			CK73FB1H182K	CHIP C	1800PF	K
C8			CK73FF1C105Z	CHIP C	1.0UF	Z
C9			CK73EF1H104Z	CHIP C	0.10UF	Z
C10			CK73FF1E104Z	CHIP C	0.10UF	Z
C11			CK73FB1H472K	CHIP C	4700PF	K
C12			CK73FB1H103K	CHIP C	0.010UF	K
C13			CK73FB1H182K	CHIP C	1800PF	K
C14			CE04EW1E4R7M	ELECTRO	4.7UF	25WV
C15			CK73FB1H103K	CHIP C	0.010UF	K
C16			CK73FB1H222K	CHIP C	2200PF	K
C17			CK73FB1H472K	CHIP C	4700PF	K
C18			CK73FB1H222K	CHIP C	2200PF	K
C19			CK73FB1H103K	CHIP C	0.010UF	K
C20			CK73FF1C105Z	CHIP C	1.0UF	Z
C21			CK73FB1H102K	CHIP C	1000PF	K
C22,23			CK73FB1H392K	CHIP C	3900PF	K
C24			CK73FF1E104Z	CHIP C	0.10UF	Z
C25,26			CK73FB1H102K	CHIP C	1000PF	K
C27			CK73FF1E104Z	CHIP C	0.10UF	Z
C28			CK73FB1H561K	CHIP C	560PF	K

PARTS LIST

TX-RX UNIT (X57-500X-XX)

Ref. No.	Address	New parts	Parts No.	Description			Destination
C29,30			CK73FB1H222K	CHIP C	2200PF	K	
C31			CK73FF1E104Z	CHIP C	0.10UF	Z	
C32,33			CK73FB1H102K	CHIP C	1000PF	K	
C34			CK73FF1E104Z	CHIP C	0.10UF	Z	
C35			CC73FSL1H271J	CHIP C	270PF	J	
C36,37			CK73FB1H102K	CHIP C	1000PF	K	
C38			CK73FF1E104Z	CHIP C	0.10UF	Z	
C39,40			CK73FB1H102K	CHIP C	1000PF	K	
C41			CK73FF1E104Z	CHIP C	0.10UF	Z	
C42,43			CC73FCH1H100D	CHIP C	10PF	D	
C44			CK73FF1E104Z	CHIP C	0.10UF	Z	
C45,46			CK73FB1H102K	CHIP C	1000PF	K	
C47			CK73FF1E104Z	CHIP C	0.10UF	Z	
C48			CC73FSL1H121J	CHIP C	120PF	J	
C49,50			CK73FB1H102K	CHIP C	1000PF	K	
C51			CK73FF1E104Z	CHIP C	0.10UF	Z	
C52,53			CK73FB1H102K	CHIP C	1000PF	K	
C54			CK73FF1E104Z	CHIP C	0.10UF	Z	
C55			CC73FCH1H820J	CHIP C	82PF	J	
C56,57			CK73FB1H102K	CHIP C	1000PF	K	
C58			CK73FF1E104Z	CHIP C	0.10UF	Z	
C59,60			CK73FB1H102K	CHIP C	1000PF	K	
C61			CK73FF1E104Z	CHIP C	0.10UF	Z	
C62,63			CC73FCH1H040C	CHIP C	4.0PF	C	
C64			CK73FF1E104Z	CHIP C	0.10UF	Z	
C65,66			CK73FB1H102K	CHIP C	1000PF	K	
C67			CK73FF1E104Z	CHIP C	0.10UF	Z	
C68			CC73FCH1H680J	CHIP C	68PF	J	
C69			CK73FB1H391K	CHIP C	390PF	K	
C70			CC73FSL1H151J	CHIP C	150PF	J	
C71			CK73FF1E104Z	CHIP C	0.10UF	Z	
C72,73			CK73FB1H102K	CHIP C	1000PF	K	
C74			CK73FF1E104Z	CHIP C	0.10UF	Z	
C75			CC73FCH1H330J	CHIP C	33PF	J	
C76,77			CC73FSL1H221J	CHIP C	220PF	J	
C78			CK73FF1E104Z	CHIP C	0.10UF	Z	
C79,80			CK73FB1H102K	CHIP C	1000PF	K	
C81			CK73FF1E104Z	CHIP C	0.10UF	Z	
C89			CC73FCH1H020C	CHIP C	2.0PF	C	
C90-92			CK73FF1E104Z	CHIP C	0.10UF	Z	
C93			CK73FB1H103K	CHIP C	0.010UF	K	
C94			CC73FCH1H060D	CHIP C	6.0PF	D	
C95			CC73FCH1H180J	CHIP C	18PF	J	
C96-98			CK73FB1H103K	CHIP C	0.010UF	K	
C99			CC73FCH1H220J	CHIP C	22PF	J	
C100			CC73FCH1H010C	CHIP C	1.0PF	C	
C101			CK73FB1H103K	CHIP C	0.010UF	K	
C102,103			CK73FF1E104Z	CHIP C	0.10UF	Z	
C104			CC73FCH1H680J	CHIP C	68PF	J	
C105			CC73FSL1H151J	CHIP C	150PF	J	
C106			CC73FCH1H680J	CHIP C	68PF	J	
C107			CK73FF1E104Z	CHIP C	0.10UF	Z	
C108			CK73FB1H103K	CHIP C	0.010UF	K	
C109			CC73FCH1H050C	CHIP C	5.0PF	C	
C110			CC73FCH1H010C	CHIP C	1.0PF	C	
C111			CK73FF1E104Z	CHIP C	0.10UF	Z	
C112			CC73FCH1H100D	CHIP C	10PF	D	
C113			CC73FCH1H020C	CHIP C	2.0PF	C	
C114-118			CK73FB1H103K	CHIP C	0.010UF	K	
C119			CC73FCH1H020C	CHIP C	2.0PF	C	

Ref. No.	Address	New parts	Parts No.	Description			Destination
C120			CC73FCH1H150J	CHIP C	15PF	J	
C121			CC73FCH1H100D	CHIP C	10PF	D	
C122			CC73FCH1H030C	CHIP C	3.0PF	C	
C123			CC73FCH1H101J	CHIP C	100PF	J	
C124			CK73FF1E104Z	CHIP C	0.10UF	Z	
C125			CK73FB1H102K	CHIP C	1000PF	K	
C126-134			CK73FB1H103K	CHIP C	0.010UF	K	
C135			CK73FF1E104Z	CHIP C	0.10UF	Z	
C136			CK73FB1H471K	CHIP C	470PF	K	
C137			CC73FCH1H100D	CHIP C	10PF	D	
C138-141			CK73FB1H103K	CHIP C	0.010UF	K	
C142			CC73FCH1H100D	CHIP C	10PF	D	
C143,144			CK73FB1H103K	CHIP C	0.010UF	K	
C145			CC73FCH1H100D	CHIP C	10PF	D	
C146-148			CK73FB1H103K	CHIP C	0.010UF	K	
C149			CC73FCH1H200J	CHIP C	20PF	J	
C150			CK73FB1H103K	CHIP C	0.010UF	K	
C151			CK73FB1H471K	CHIP C	470PF	K	
C152,153			CK73FB1H103K	CHIP C	0.010UF	K	
C154			CC73FCH1H270J	CHIP C	27PF	J	
C155,156			CK73FB1H103K	CHIP C	0.010UF	K	
C157-159			CK73FF1E104Z	CHIP C	0.10UF	Z	
C162			CC73FCH1H100D	CHIP C	10PF	D	
C163			CK73FF1E104Z	CHIP C	0.10UF	Z	
C164			CK73FB1H103K	CHIP C	0.010UF	K	
C165			CK73FF1C474Z	CHIP C	0.47UF	Z	
C166-168			CK73FF1E104Z	CHIP C	0.10UF	Z	
C169			CK73FB1H103K	CHIP C	0.010UF	K	
C170			CK73FB1H471K	CHIP C	470PF	K	
C171-173			CK73FB1H103K	CHIP C	0.010UF	K	
C174			CE04EW1A101M	ELECTRO	100UF	10WV	
C175,176			CK73FB1H103K	CHIP C	0.010UF	K	
C177,178			CE04EW1C100M	ELECTRO	10UF	16WV	
C179			CC73FSL1H121J	CHIP C	120PF	J	
C180			CC73FCH1H390J	CHIP C	39PF	J	
C181			CK73FF1H473Z	CHIP C	0.047UF	Z	
C182			CC73FCH1H100D	CHIP C	10PF	D	
C183			CK73FB1H471K	CHIP C	470PF	K	
C184-191			CK73FB1H103K	CHIP C	0.010UF	K	
C192			CC73FCH1H010C	CHIP C	1.0PF	C	
C193			CC73FCH1H050C	CHIP C	5.0PF	C	
C194			CK73FF1E104Z	CHIP C	0.10UF	Z	
C195			CK73FB1H103K	CHIP C	0.010UF	K	
C196,197			CC73FUJ1H080D	CHIP C	8.0PF	D	
C198			CK73FB1H103K	CHIP C	0.010UF	K	
C199			CC73FCH1H010C	CHIP C	1.0PF	C	
C200			CK73FB1H103K	CHIP C	0.010UF	K	
C201			CC73FCH1H200J	CHIP C	20PF	J	
C202			CC73FUJ1H080D	CHIP C	8.0PF	D	
C203			CC73FCH1H0R5C	CHIP C	0.5PF	C	
C204			CC73FUJ1H080D	CHIP C	8.0PF	D	
C205,206			CK73FB1H103K	CHIP C	0.010UF	K	
C207			CK73FB1E104K	CHIP C	0.10UF	K	
C208-213			CK73FB1H103K	CHIP C	0.010UF	K	
C215,216			CK73FB1H103K	CHIP C	0.010UF	K	
C217			CK73FB1H471K	CHIP C	470PF	K	
C218-220			CK73FB1H103K	CHIP C	0.010UF	K	
C221			CK73FB1H332K	CHIP C	3300PF	K	
C222			CK73FF1E104Z	CHIP C	0.10UF	Z	
C223			CK73FB1E104K	CHIP C	0.10UF	K	

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PARTS LIST

TX-RX UNIT (X57-500X-XX)

Ref. No.	Address	New parts	Parts No.	Description			Destination
C224			CK73FB1H103K	CHIP C	0.010UF	K	
C225			CK73FF1E104Z	CHIP C	0.10UF	Z	
C226			CK73FB1H103K	CHIP C	0.010UF	K	
C236-239			CK73FF1E104Z	CHIP C	0.10UF	Z	
C240			CE04EW1C100M	ELECTRO	10UF	16WV	
C241-242			CK73FF1E104Z	CHIP C	0.10UF	Z	
C243			CE04EW1C100M	ELECTRO	10UF	16WV	
C244			CK73FF1E104Z	CHIP C	0.10UF	Z	
C245			CC73FCH1H050C	CHIP C	5.0PF	C	
C246,247			CK73FB1H103K	CHIP C	0.010UF	K	
C248			CE04EW1C101M	ELECTRO	100UF	16WV	
C249			CK73FB1H103K	CHIP C	0.010UF	K	
C250			CK73FF1C105Z	CHIP C	1.0UF	Z	
C251,252			CK73FB1H103K	CHIP C	0.010UF	K	
C253			CE04EW1E4R7M	ELECTRO	4.7UF	25WV	
C254			CK73FB1H103K	CHIP C	0.010UF	K	
C255			CK73FF1C105Z	CHIP C	1.0UF	Z	
C256			CK73FB1H103K	CHIP C	0.010UF	K	
C257			CE04EW1C100M	ELECTRO	10UF	16WV	
C258			CE04EW1H4R7M	ELECTRO	4.7UF	50WV	
C259			CE04EW1HR22M	ELECTRO	0.22UF	50WV	
C260			CE04EW1H010M	ELECTRO	1.0UF	50WV	
C261			CE04EW1H4R7M	ELECTRO	4.7UF	50WV	
C262,263			CK73FB1H103K	CHIP C	0.010UF	K	
C265,266			CC73FCH1H101J	CHIP C	100PF	J	
C267			CK73FB1H103K	CHIP C	0.010UF	K	
C268			CE04EW1C470M	ELECTRO	47UF	16WV	
C269			CC73FCH1H101J	CHIP C	100PF	J	
C270			CK73FB1H222K	CHIP C	2200PF	K	
C271			CK73FB1H332K	CHIP C	3300PF	K	
C272			CE04EW1C470M	ELECTRO	47UF	16WV	
C273			CC73FCH1H101J	CHIP C	100PF	J	
C274,275			CK73FB1H103K	CHIP C	0.010UF	K	
C276			CE04EW1C470M	ELECTRO	47UF	16WV	
C277			CK73FB1H103K	CHIP C	0.010UF	K	
C285			CK73FB1H103K	CHIP C	0.010UF	K	
C286			CK73FB1H222K	CHIP C	2200PF	K	
C287			CK73FB1H103K	CHIP C	0.010UF	K	
C288			CK73FB1H102K	CHIP C	1000PF	K	
C289,290			CK73FB1H103K	CHIP C	0.010UF	K	
C291			CK73FB1H102K	CHIP C	1000PF	K	
C293-295			CK73FB1H103K	CHIP C	0.010UF	K	
C296			CE04EW1C221M	ELECTRO	220UF	16WV	
C297			CK73FB1H103K	CHIP C	0.010UF	K	
C298-302			CK73FB1H102K	CHIP C	1000PF	K	
C303			CK73FB1H122K	CHIP C	1200PF	K	
C304			CE04EW1HR22M	ELECTRO	0.22UF	50WV	
C305			CK73FF1E104Z	CHIP C	0.10UF	Z	
C307			CC73FCH1H101J	CHIP C	100PF	J	
C308,309			CK73FB1H103K	CHIP C	0.010UF	K	
C310			CC73FCH1H470J	CHIP C	47PF	J	
C311			CC73FCH1H360J	CHIP C	36PF	J	
C312			CK73FB1H103K	CHIP C	0.010UF	K	
C313			CE04EW1E4R7M	ELECTRO	4.7UF	25WV	
C314			CK73FB1H102K	CHIP C	1000PF	K	
C315			CK73FB1H103K	CHIP C	0.010UF	K	
C316			CK73FF1E104Z	CHIP C	0.10UF	Z	
C335,336			CK73FF1C105Z	CHIP C	1.0UF	Z	
C342			CK73FB1E104K	CHIP C	0.10UF	K	
C345,346			CK73FB1H103K	CHIP C	0.010UF	K	

Ref. No.	Address	New parts	Parts No.	Description			Destination
C349			CK73FB1H102K	CHIP C	1000PF	K	
C350,351			CK73FB1H103K	CHIP C	0.010UF	K	
C352			CE04EW1C470M	ELECTRO	47UF	16WV	
C353			CK73FF1E104Z	CHIP C	0.10UF	Z	
C354			CK73FB1H103K	CHIP C	0.010UF	K	
C355			CE04EW1C101M	ELECTRO	100UF	16WV	
C356			CE04EW1C470M	ELECTRO	47UF	16WV	
C357			CK73FB1H103K	CHIP C	0.010UF	K	
C358			CE04EW1E4R7M	ELECTRO	4.7UF	25WV	
C359			CE04EW1C471M	ELECTRO	470UF	16WV	
C360,361			CK73FB1H103K	CHIP C	0.010UF	K	
C362			CK73FB1H102K	CHIP C	1000PF	K	
C364			CK73FF1E104Z	CHIP C	0.10UF	Z	
C365			CE04EW1C100M	ELECTRO	10UF	16WV	
C366			CE04EW1C220M	ELECTRO	22UF	16WV	
C367			CK73FF1E104Z	CHIP C	0.10UF	Z	
C369			CE04EW1C331M	ELECTRO	330UF	16WV	
C370			C92-0005-05	CHIP-TAN	2.2UF	6.3WV	
C371			CC73FCH1H101J	CHIP C	100PF	J	
C372			CK73FF1E104Z	CHIP C	0.10UF	Z	
C377-379			CK73FB1H102K	CHIP C	1000PF	K	
C380			CK73FF1E104Z	CHIP C	0.10UF	Z	
C381,382			CK73FB1H102K	CHIP C	1000PF	K	
C383,384			CK73FB1E104K	CHIP C	0.10UF	K	
C385			CK73FF1E104Z	CHIP C	0.10UF	Z	
C386-389			CK73FB1H102K	CHIP C	1000PF	K	
C390			CK73EB1H104K	CHIP C	0.10UF	K	
C391-394			CK73FB1H102K	CHIP C	1000PF	K	
C397			C92-0003-05	CHIP-TAN	0.47UF	25WV	
C398			CK73FF1E104Z	CHIP C	0.10UF	Z	
C399			CC73FCH1H470J	CHIP C	47PF	J	
C400			CK73FB1H103K	CHIP C	0.010UF	K	
C407			C92-0004-05	CHIP-TAN	1.0UF	16WV	
C408			CK73FB1H103K	CHIP C	0.010UF	K	
C409			CC73FCH1H100D	CHIP C	10PF	D	
C410			CC73FCH1H020C	CHIP C	2.0PF	C	
C411			CC73FCH1H060D	CHIP C	6.0PF	D	
C412			CK73FB1E104K	CHIP C	0.10UF	K	
C413,414			CK73FB1H103K	CHIP C	0.010UF	K	
C415,416			CC73FCH1H100D	CHIP C	10PF	D	
C417			CE04EW1C330M	ELECTRO	33UF	16WV	
C418			CK73FF1C105Z	CHIP C	1.0UF	Z	
C419			CE04NW1H2R2M	ELECTRO	2.2UF	50WV	
C420,421			CE04EW1C220M	ELECTRO	22UF	16WV	
C422,423			CK73FB1H333K	CHIP C	0.033UF	K	
C424			CK73FB1E104K	CHIP C	0.10UF	K	
C425-430			CC73FSL1H471J	CHIP C	470PF	J	
C431			C92-0004-05	CHIP-TAN	1.0UF	16WV	
C450-455			CK73FB1H102K	CHIP C	1000PF	K	
C458			CK73FF1E104Z	CHIP C	0.10UF	Z	
C459			CC73FCH1H040C	CHIP C	4.0PF	C	
C460,461			CC73FCH1H220J	CHIP C	22PF	J	
C464			C92-0004-05	CHIP-TAN	1.0UF	16WV	
C500			CK73FB1H103K	CHIP C	0.010UF	K	
C501			CC73FCH1H390J	CHIP C	39PF	J	
C502			CK73FB1H103K	CHIP C	0.010UF	K	
C503			CE04EW1C100M	ELECTRO	10UF	16WV	
C504			CC73FSL1H151J	CHIP C	150PF	J	
C505			CC73FCH1H390J	CHIP C	39PF	J	
C506			CC73FCH1H100D	CHIP C	10PF	D	

PARTS LIST

TX-RX UNIT (X57-500X-XX)

Ref. No.	Address	New parts	Parts No.	Description			Destination
C507			CK73FB1H103K	CHIP C	0.010UF	K	
C508			CC73FCH1H050C	CHIP C	5.0PF	C	
C509,510			CK73FB1H103K	CHIP C	0.010UF	K	
C511			CK73FB1H102K	CHIP C	1000PF	K	
C512,513			CK73FB1H103K	CHIP C	0.010UF	K	
C514			CK73FB1H102K	CHIP C	1000PF	K	
C515			CK73FB1H103K	CHIP C	0.010UF	K	
C516			C92-0536-05	CHIP-TAN	10UF	10WV	
C517			CK73FB1H103K	CHIP C	0.010UF	K	
C518,519			CC73FCH1H150J	CHIP C	15PF	J	
C520			CK73FB1H103K	CHIP C	0.010UF	K	
C521			CE04EW1A221M	ELECTRO	220UF	10WV	
C522			CK73FB1H103K	CHIP C	0.010UF	K	
C523			CK73FB1H333K	CHIP C	0.033UF	K	
C524,525			C92-0004-05	CHIP-TAN	1.0UF	16WV	
C526			CE04EW1A101M	ELECTRO	100UF	10WV	
C527			CK73FB1H103K	CHIP C	0.010UF	K	
C529			CK73FB1H103K	CHIP C	0.010UF	K	
C530			C92-0003-05	CHIP-TAN	0.47UF	25WV	
C531			CE04EW1A221M	ELECTRO	220UF	10WV	
C532-534			CK73FB1H102K	CHIP C	1000PF	K	
C535			CC73FCH1H101J	CHIP C	100PF	J	
C536-538			CC73FCH1H070D	CHIP C	7.0PF	D	
C539			CK73FB1H102K	CHIP C	1000PF	K	
C540			CC73FCH1H120J	CHIP C	12PF	J	
C541			CC73FCH1H180J	CHIP C	18PF	J	
C542			CK73FB1H102K	CHIP C	1000PF	K	
C543			CC73FCH1H010C	CHIP C	1.0PF	C	
C544-548			CK73FB1H102K	CHIP C	1000PF	K	
C549			CC73FCH1H330J	CHIP C	33PF	J	
C550			CC73FCH1H080D	CHIP C	8.0PF	D	
C551			CC73FCH1H680J	CHIP C	68PF	J	
C552			CK73FF1C105Z	CHIP C	1.0UF	Z	
C553,554			CK73FB1H103K	CHIP C	0.010UF	K	
C555,556			CC73FCH1H270J	CHIP C	27PF	J	
C557			CC73FCH1H470J	CHIP C	47PF	J	
C558			CC73FCH1H270J	CHIP C	27PF	J	
C559			CK73FB1H103K	CHIP C	0.010UF	K	
C560,561			CC73FCH1H270J	CHIP C	27PF	J	
C562,563			CK73FB1H103K	CHIP C	0.010UF	K	
C564,565			CC73FCH1H270J	CHIP C	27PF	J	
C566-568			CK73FB1H103K	CHIP C	0.010UF	K	
C569			C92-0007-05	CHIP-TAN	2.2UF	20WV	
C570			CK73FB1H102K	CHIP C	1000PF	K	
C571			CC73FSL1H181J	CHIP C	180PF	J	
C572			CC73FCH1H100D	CHIP C	10PF	D	
C573			CC73FSL1H221J	CHIP C	220PF	J	
C574			CC73FCH1H220J	CHIP C	22PF	J	
C575			CC73FSL1H151J	CHIP C	150PF	J	
C576,577			CK73FB1H103K	CHIP C	0.010UF	K	
C578			CK73FF1E104Z	CHIP C	0.10UF	Z	
C579			CK73FB1H103K	CHIP C	0.010UF	K	
C580			C92-0516-05	CHIP-TAN	4.7UF	16WV	
C581-585			CK73FB1H103K	CHIP C	0.010UF	K	
C586			CK73FB1H471K	CHIP C	470PF	K	
C587			CC73FCH1H220J	CHIP C	22PF	J	
C588			CK73FB1H471K	CHIP C	470PF	K	
C589			CK73FB1H103K	CHIP C	0.010UF	K	
C590,591			CC73FCH1H270J	CHIP C	27PF	J	
C592-594			CK73FB1H103K	CHIP C	0.010UF	K	

Ref. No.	Address	New parts	Parts No.	Description			Destination
C595			C92-0007-05	CHIP-TAN	2.2UF	20WV	
C596			CK73FB1H102K	CHIP C	1000PF	K	
C597			CC73FSL1H181J	CHIP C	180PF	J	
C598			CC73FCH1H100D	CHIP C	10PF	D	
C599			CC73FSL1H221J	CHIP C	220PF	J	
C600			CC73FCH1H220J	CHIP C	22PF	J	
C601			CC73FSL1H151J	CHIP C	150PF	J	
C602			CK73FF1E104Z	CHIP C	0.10UF	Z	
C603,604			CK73FB1H103K	CHIP C	0.010UF	K	
C605			CC73FCH1H101J	CHIP C	100PF	J	
C606			CC73FCH1H330J	CHIP C	33PF	J	
C607			CC73FCH1H470J	CHIP C	47PF	J	
C608			CC73FSL1H151J	CHIP C	150PF	J	
C609			CC73FCH1H560J	CHIP C	56PF	J	
C610			CC73FCH1H101J	CHIP C	100PF	J	
C611			CC73FCH1H270J	CHIP C	27PF	J	
C612			CC73FSL1H121J	CHIP C	120PF	J	
C613			CC73FCH1H820J	CHIP C	82PF	J	
C614			CC73FCH1H680J	CHIP C	68PF	J	
C615-617			CK73FB1H103K	CHIP C	0.010UF	K	
C618			CK73FF1E104Z	CHIP C	0.10UF	Z	
C619-621			CK73FB1H103K	CHIP C	0.010UF	K	
C622			CC73FCH1H0R5C	CHIP C	0.5PF	C	
C623,624			CC73FCH1H060D	CHIP C	6.0PF	D	
C625,626			CK73FB1H102K	CHIP C	1000PF	K	
C627			CK73FB1H103K	CHIP C	0.010UF	K	
C628			CK73FB1H102K	CHIP C	1000PF	K	
C629			CK73FB1H103K	CHIP C	0.010UF	K	
C630			CC73FCH1H101J	CHIP C	100PF	J	
C631			CC73FCH1H050C	CHIP C	5.0PF	C	
C632			CC73FCH1H0R5C	CHIP C	0.5PF	C	
C633			CC73FCH1H100D	CHIP C	10PF	D	
C634			CC73FCH1H0R5C	CHIP C	0.5PF	C	
C635			CC73FCH1H050C	CHIP C	5.0PF	C	
C637-641			CK73FB1H103K	CHIP C	0.010UF	K	
C642			CC73FCH1H101J	CHIP C	100PF	J	
C643			CC73FSL1H471J	CHIP C	470PF	J	
C644			CK73FB1H103K	CHIP C	0.010UF	K	
C645			CC73FCH1H101J	CHIP C	100PF	J	
C646,647			CK73FB1H103K	CHIP C	0.010UF	K	
C648			CC73FCH1H020C	CHIP C	2.0PF	C	
C649			CC73FCH1H030C	CHIP C	3.0PF	C	
C650			CC73FCH1H020C	CHIP C	2.0PF	C	
C651			CC73FCH1H1R5C	CHIP C	1.5PF	C	
C652,653			CC73FCH1H270J	CHIP C	27PF	J	
C654			CK73FB1H103K	CHIP C	0.010UF	K	
C655			CE04EW1A221M	ELECTRO	220UF	10WV	
C656			CK73FB1H103K	CHIP C	0.010UF	K	
C657			CE04EW1C470M	ELECTRO	47UF	16WV	
C658			CK73FB1H103K	CHIP C	0.010UF	K	
C659,660			C92-0004-05	CHIP-TAN	1.0UF	16WV	
C661			CK73FB1H103K	CHIP C	0.010UF	K	
C662			CE04EW1C471M	ELECTRO	470UF	16WV	
C663			CE04EW1A221M	ELECTRO	220UF	10WV	
C664			CK73FB1H103K	CHIP C	0.010UF	K	
C665			CC73FCH1H470J	CHIP C	47PF	J	
C666			CC73FCH1H100D	CHIP C	10PF	D	
C667,668			CK73FB1H102K	CHIP C	1000PF	K	
C669-671			CC73FCH1H120J	CHIP C	12PF	J	
C672,673			CK73FB1H102K	CHIP C	1000PF	K	

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PARTS LIST

TX-RX UNIT (X57-500X-XX)

Ref. No.	Address	New parts	Parts No.	Description			Destination
C674			CC73FCH1H050C	CHIP C	5.0PF	C	
C675			CC73FCH1H270J	CHIP C	27PF	J	
C677			CC73FCH1H100D	CHIP C	10PF	D	
C678,679			CK73FB1H102K	CHIP C	1000PF	K	
C680-682			CC73FCH1H120J	CHIP C	12PF	J	
C683,684			CK73FB1H102K	CHIP C	1000PF	K	
C685			CC73FCH1H050C	CHIP C	5.0PF	C	
C686			CC73FCH1H240J	CHIP C	24PF	J	
C687			CK73FB1H102K	CHIP C	1000PF	K	
C688			CC73FCH1H100D	CHIP C	10PF	D	
C689			C92-0001-05	CHIP C	0.1UF	35WV	
C690			CK73FB1H102K	CHIP C	1000PF	K	
C691,692			CC73FCH1H080D	CHIP C	8.0PF	D	
C693			CC73FCH1H120J	CHIP C	12PF	J	
C694,695			CK73FB1H102K	CHIP C	1000PF	K	
C696			CC73FCH1H100D	CHIP C	10PF	D	
C697			CK73FB1H103K	CHIP C	0.010UF	K	
C698-700			CK73FB1H102K	CHIP C	1000PF	K	
C701			CK73FB1H472K	CHIP C	4700PF	K	
C702			CK73FB1H103K	CHIP C	0.010UF	K	
C703-705			CC73FCH1H100D	CHIP C	10PF	D	
C706,707			CC73FCH1H010C	CHIP C	1.0PF	C	
C708,709			CC73FCH1H070D	CHIP C	7.0PF	D	
C710			CC73FCH1H010C	CHIP C	1.0PF	C	
C711-714			CK73FB1H102K	CHIP C	1000PF	K	
C715			CK73FB1H103K	CHIP C	0.010UF	K	
C716			CC73FSL1H221J	CHIP C	220PF	J	
C718-722			CC73FSL1H221J	CHIP C	220PF	J	
C724			CC73FSL1H221J	CHIP C	220PF	J	
C725			CK73FB1H103K	CHIP C	0.010UF	K	
C755			CC73FCH1H030C	CHIP C	3.0PF	C	
C756			CE04EW1A101M	ELECTRO	100UF	10WV	
C758			CK73FB1H102K	CHIP C	1000PF	K	
C759			CK73FF1C105Z	CHIP C	1.0UF	Z	
C760,761			CC73FCH1H0R5C	CHIP C	0.5PF	C	
C762			CK73FB1H102K	CHIP C	1000PF	K	
C763			CK73FB1H103K	CHIP C	0.010UF	K	
C764			CK73FB1H102K	CHIP C	1000PF	K	
C766-768			CK73FB1H102K	CHIP C	1000PF	K	
C769-772			CC73FSL1H221J	CHIP C	220PF	J	
C773			CK73FB1H103K	CHIP C	0.010UF	K	
C774			CC73FCH1H050C	CHIP C	5.0PF	C	
C775			CC73FCH1H330J	CHIP C	33PF	J	
C776			CC73FCH1H680J	CHIP C	68PF	J	
C777			CC73ECH1H202J	CHIP C	2000PF	J	
C778-785			CC73FCH1H470J	CHIP C	47PF	J	
C786			CC73FCH1H150J	CHIP C	15PF	J	
C787,788			CK73FB1E104K	CHIP C	0.10UF	K	
C800			CK73FB1H103K	CHIP C	0.010UF	K	
C801			CC73FCH1H070D	CHIP C	7.0PF	D	
C802,803			CK73FB1H103K	CHIP C	0.010UF	K	
C804			C92-0003-05	CHIP-TAN	0.47UF	25WV	
C805-807			CK73FB1H103K	CHIP C	0.010UF	K	
C808			C92-0003-05	CHIP-TAN	0.47UF	25WV	
C809			CK73FB1H103K	CHIP C	0.010UF	K	
C810			CK73FB1H102K	CHIP C	1000PF	K	
C811			CC73FCH1H100D	CHIP C	10PF	D	
C812-815			CK73FB1H103K	CHIP C	0.010UF	K	
C816			C92-0004-05	CHIP-TAN	1.0UF	16WV	
C817			CE04EW1A101M	ELECTRO	100UF	10WV	

Ref. No.	Address	New parts	Parts No.	Description			Destination
C818,819			CC73FCH1H470J	CHIP C	47PF	J	
C900-903			CK73EF1C105Z	CHIP C	1.0UF	Z	
C904			CK73FB1H103K	CHIP C	0.010UF	K	
C905			CE04NW1C470M	ELECTRO	47UF	16WV	
C906-913			CK73FB1H102K	CHIP C	1000PF	K	
TC1,2			C05-0344-05	TRIMMER CAPACITOR (30PF)			E,E2,E3
TC500			C05-0344-05	TRIMMER CAPACITOR (30PF)			
TC502-504			C05-0345-05	TRIMMER CAPACITOR (10PF)			
-			E18-0254-05	SOCKET (CN20)			
CN1,2			E04-0154-05	RF COAXIAL CABLE RECEPTACLE			
CN3,4			E40-0211-05	PIN CONNECTOR FOR INSIDE (2P)			
CN5			E04-0154-05	RF COAXIAL CABLE RECEPTACLE			
CN7			E04-0154-05	RF COAXIAL CABLE RECEPTACLE			
CN8,9			E40-5059-05	PIN CONNECTOR FOR INSIDE (5P)			
CN10			E04-0154-05	RF COAXIAL CABLE RECEPTACLE			
CN11			E40-5764-05	PIN CONNECTOR FOR INSIDE (16P)			
CN12			E40-3238-05	PIN CONNECTOR FOR INSIDE (3P)			
CN14			E40-3238-05	PIN CONNECTOR FOR INSIDE (3P)			
CN15			E40-5764-05	PIN CONNECTOR FOR INSIDE (16P)			
CN16			E40-5765-05	PIN CONNECTOR FOR INSIDE (8P)			
CN17			E40-5747-05	PIN ASSY SOCKET (11P)			
CN18			E40-5797-05	PIN CONNECTOR FOR INSIDE (26P)			
CN19,20			E40-5487-05	PIN CONNECTOR FOR INSIDE (2P)			
CN21			E40-3237-05	PIN CONNECTOR FOR INSIDE (2P)			
CN500			E40-5764-05	PIN CONNECTOR FOR INSIDE (16P)			
CN501			E04-0154-05	RF COAXIAL CABLE RECEPTACLE			
CN502			E40-3237-05	PIN CONNECTOR FOR INSIDE (2P)			
CN503			E04-0154-05	RF COAXIAL CABLE RECEPTACLE			
J1			E06-0752-05	DIN SOCKET (7P)			
J2			E56-0408-05	DIN SOCKET (13P)			
J3			E11-0414-05	PHONE JACK (3.5D)			
J4			E11-0455-05	PHONE JACK (3.5D)			
J5			E11-0438-05	PHONE JACK			
J900			E58-0435-05	SUB SOCKET			
W1			E37-0651-05	LEAD WIRE WITH CONNECTOR (NB)			
W2			E37-0649-05	LEAD WIRE WITH PLUG (LO2)			
W3			E37-0650-05	LEAD WIRE WITH PLUG (LOI)			
W4			E37-0652-15	LEAD WIRE WITH CONNECTOR (CAR)			
W5			E37-0653-05	LEAD WIRE WITH CONNECTOR (FMM)			
W6			E37-0654-05	LEAD WIRE WITH CONNECTOR (AF)			
W450			E37-0655-05	LEAD WIRE WITH CONNECTOR (VOL)			
A500,501			F10-2062-04	SHIELDING CASE (DDS1)			
A502			F10-2092-04	SHIELDING CASE (VCO2)			
A503			F11-1086-14	SHIELDING COVER (VCO2)			
A505			F10-2209-04	SHIELDING CASE (VCO1)			
A506			F10-2208-04	SHIELDING COVER (VCO1)			
F1			F53-0055-05	FUSE (0.8A)			
A504			G13-1549-04	CUSHION (VCO2)			
A507			G13-1550-04	CUSHION (VCO1)			
-			J30-0545-05	SPACER (XF1)			
-			J30-0564-05	SPACER (XF2)			
-			J32-0761-04	BOSS (OPTION FILTER)			
CD1			L79-1013-05	TUNING COIL (455KHZ)			
CF1			L72-0372-05	CERAMIC FILTER (455KHZ)			
CF500,501			L72-0351-05	CERAMIC FILTER (8.830MHZ)			
L1			L40-2215-48	SMALL FIXED INDUCTOR (220UH)			
L2			L40-6891-15	SMALL FIXED INDUCTOR			E,E2,E3

PARTS LIST

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Ref. No.	Address	New parts	Parts No.	Description	Destination
L3			L40-3991-15	SMALL FIXED INDUCTOR	E,E2,E3
L4			L40-2785-48	SMALL FIXED INDUCTOR (270NH)	
L5			L33-0695-05	CHOKE COIL (1MH)	
L6			L40-4795-48	SMALL FIXED INDUCTOR (4.7UH)	
L7,8			L33-0695-05	CHOKE COIL (1MH)	
L9-11			L40-6891-14	SMALL FIXED INDUCTOR	
L12,13			L40-1892-14	SMALL FIXED INDUCTOR	
L14			L40-5691-14	SMALL FIXED INDUCTOR	
L15,16			L40-1292-14	SMALL FIXED INDUCTOR	
L17			L40-3391-14	SMALL FIXED INDUCTOR	
L18,19			L40-1092-14	SMALL FIXED INDUCTOR	
L20-22			L34-4262-05	COIL	
L23			L40-2792-14	SMALL FIXED INDUCTOR	
L24,25			L40-3382-14	SMALL FIXED INDUCTOR	
L26			L40-2292-14	SMALL FIXED INDUCTOR	
L27,28			L40-2282-14	SMALL FIXED INDUCTOR	
L29-31			L34-4289-05	COIL	
L32			L40-1292-14	SMALL FIXED INDUCTOR	
L33,34			L40-2282-14	SMALL FIXED INDUCTOR	
L35			L40-1292-14	SMALL FIXED INDUCTOR	
L36,37			L40-2282-14	SMALL FIXED INDUCTOR	
L41			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L42,43			L40-2785-48	SMALL FIXED INDUCTOR (270NH)	
L44			L19-0324-05	TROIDAL COIL	
L45			L34-4413-05	COIL	
L46-48			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L49			L40-1085-48	SMALL FIXED INDUCTOR (100NH)	
L50,51			L34-4408-05	COIL	
L52			L33-0695-05	CHOKE COIL (1MH)	
L53			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L54			L34-4415-05	COIL	
L55			L34-0943-05	COIL	
L56			L34-4467-05	COIL	
L57			L39-1255-05	TROIDAL COIL	
L58			L40-5695-48	SMALL FIXED INDUCTOR (5.6UH)	
L59			L40-4705-48	SMALL FIXED INDUCTOR (47UH)	
L60			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L61			L34-4465-05	COIL	
L62			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L63			L40-3395-48	SMALL FIXED INDUCTOR (3.3UH)	
L64			L19-0324-05	TROIDAL COIL	
L65			L39-1255-05	TROIDAL COIL	
L66			L19-0324-05	TROIDAL COIL	
L67			L34-4264-05	COIL	
L68			L34-4265-05	COIL	
L69			L34-0943-05	COIL	
L70			L34-4469-05	COIL	
L71			L34-4465-05	COIL	
L72			L34-4333-05	COIL	
L73			L39-1255-05	TROIDAL COIL	
L74-76			L34-4333-05	COIL	
L77			L19-0324-05	TROIDAL COIL	
L78-81			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L85			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L86			L19-0324-05	TROIDAL COIL	
L87			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L88			L40-1021-13	SMALL FIXED INDUCTOR	
L89			L33-0695-05	CHOKE COIL (1MH)	
L90			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L91			L40-1005-48	SMALL FIXED INDUCTOR ((10UH)	

Ref. No.	Address	New parts	Parts No.	Description	Destination
L92			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L97-100			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L101			L40-1095-48	SMALL FIXED INDUCTOR (1UH)	
L105,106			L33-0695-05	CHOKE COIL (1MH)	
L107			L40-1001-12	SMALL FIXED INDUCTOR	
L108			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L109			L40-1011-15	SMALL FIXED INDUCTOR	
L110			L40-2285-48	SMALL FIXED INDUCTOR (220NH)	
L111			L34-4408-05	COIL	
L112			L40-1095-48	SMALL FIXED INDUCTOR (1UH)	
L113			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L115			L40-1021-12	SMALL FIXED INDUCTOR	
L500			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L501			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L502			L40-4795-48	SMALL FIXED INDUCTOR (4.7UH)	
L503,504			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L505			L40-4705-48	SMALL FIXED INDUCTOR	
L506			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L507			L34-4424-05	COIL	
L508			L34-2353-05	COIL	
L509			L40-2285-48	SMALL FIXED INDUCTOR (220NH)	
L510,511			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L512,513			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L514-516			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L517,518			L40-2205-48	SMALL FIXED INDUCTOR (22UH)	
L519			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L520			L40-1095-48	SMALL FIXED INDUCTOR (1UH)	
L521			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L522			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L523,524			L40-2205-48	SMALL FIXED INDUCTOR (2.2UH)	
L525			L40-3305-48	SMALL FIXED INDUCTOR (33UH)	
L526,527			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L528			L40-5695-48	SMALL FIXED INDUCTOR (5.6UH)	
L529,530			L34-4408-05	COIL	
L531			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L532			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L533			L34-4408-05	COIL	
L534			L34-4399-05	COIL	
L535			L34-4408-05	COIL	
L536			L40-3395-48	SMALL FIXED INDUCTOR (3.3UH)	
L537			L40-1595-48	SMALL FIXED INDUCTOR (1.5UH)	
L538			L40-2295-48	SMALL FIXED INDUCTOR (2.2UH)	
L539			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L540			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L542			L34-4424-05	COIL	
L543			L34-2360-05	COIL	
L544			L34-4424-05	COIL	
L545			L34-2359-05	COIL	
L546			L34-4424-05	COIL	
L547			L34-2358-05	COIL	
L548,549			L40-6885-48	SMALL FIXED INDUCTOR (680NH)	
L550			L40-3385-48	SMALL FIXED INDUCTOR (330NH)	
L551			L40-1085-48	SMALL FIXED INDUCTOR (100NH)	
L561			L40-4705-48	SMALL FIXED INDUCTOR (47UH)	
L563			L40-2285-48	SMALL FIXED INDUCTOR (220NH)	
L564			L40-1011-12	SMALL FIXED INDUCTOR	
L800			L40-8285-48	SMALL FIXED INDUCTOR (820NH)	
L801			L40-4705-48	SMALL FIXED INDUCTOR (47UH)	
L802			L34-4466-05	COIL	
L803			L34-4483-05	COIL	

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PARTS LIST

TX-RX UNIT (X57-500X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
L804			L33-0695-05	CHOKE COIL (1MH)	
L900			L40-4705-48	SMALL FIXED INDUCTOR (47UH)	
L901-904			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
X1			L77-1302-15	CRYSTAL RESONATOR (8.375MHZ)	
X500			L77-1521-15	CRYSTAL RESONATOR (20.0MHZ)	
XF1			L71-0401-05	MCF (73.05MHZ)	
XF2			L71-0266-05	MCF (8.83MHZ)	
XF3			L71-0208-15	CRYSTAL FILTER (8.83MHZ)	
-			N30-2604-46	PAN HEAD MACHIN SCREW (L01)	
-			N30-3003-46	PAN HEAD MACHIN SCREW (OP FIL)	
-			N87-2606-46	PAN HEAD MACHIN SCREW (VCO)	
CP500-503			R90-0721-05	MULTI-COMP 4.7K X 16	
R1			RK73EB2B560J	CHIP R 56 J 1/8W	
R2			RK73EB2B471J	CHIP R 470 J 1/8W	
R3			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R4			RK73FB2A101J	CHIP R 100 J 1/10W	
R5			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R6			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R7			RK73FB2A181J	CHIP R 180 J 1/10W	
R8			RK73FB2A471J	CHIP R 470 J 1/10W	
R9			RK73FB2A560J	CHIP R 56 J 1/10W	
R11			RK73EB2B121J	CHIP R 120 J 1/8W	
R12			RK73FB2A330J	CHIP R 33 J 1/10W	
R13			RK73EB2B121J	CHIP R 120 J 1/8W	
R14			RK73FB2A330J	CHIP R 33 J 1/10W	
R15			RK73EB2B121J	CHIP R 120 J 1/8W	
R16			RK73FB2A330J	CHIP R 33 J 1/10W	
R17			RK73EB2B121J	CHIP R 120 J 1/8W	
R18			RK73FB2A330J	CHIP R 33 J 1/10W	
R19			RK73EB2B121J	CHIP R 120 J 1/8W	
R20			RK73FB2A330J	CHIP R 33 J 1/10W	
R21			RK73EB2B121J	CHIP R 120 J 1/8W	
R22			RK73FB2A330J	CHIP R 33 J 1/10W	
R23			RK73EB2B121J	CHIP R 120 J 1/8W	
R24			RK73FB2A330J	CHIP R 33 J 1/10W	
R25			RK73EB2B121J	CHIP R 120 J 1/8W	
R26			RK73FB2A330J	CHIP R 33 J 1/10W	
R27			RK73EB2B121J	CHIP R 120 J 1/8W	
R28			RK73FB2A330J	CHIP R 33 J 1/10W	
R29			RK73EB2B121J	CHIP R 120 J 1/8W	
R32			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R33			RK73FB2A100J	CHIP R 10 J 1/10W	
R34			RK73FB2A681J	CHIP R 680 J 1/10W	
R35			RK73FB2A562J	CHIP R 5.6K J 1/10W	
R36,37			RK73FB2A100J	CHIP R 10 J 1/10W	
R38,39			RK73FB2A122J	CHIP R 1.2K J 1/10W	
R40			RK73FB2A101J	CHIP R 100 J 1/10W	
R41			RK73FB2A122J	CHIP R 1.2K J 1/10W	
R42			RK73FB2A474J	CHIP R 470K J 1/10W	
R43			RK73FB2A101J	CHIP R 100 J 1/10W	
R44			RK73FB2A223J	CHIP R 22K J 1/10W	
R45,46			RK73FB2A101J	CHIP R 100 J 1/10W	
R47,48			RK73FB2A100J	CHIP R 10 J 1/10W	
R49			RK73FB2A471J	CHIP R 470 J 1/10W	
R50			RK73FB2A122J	CHIP R 1.2K J 1/10W	
R52			RK73FB2A681J	CHIP R 680 J 1/10W	
R54			R92-0670-05	CHIP R 0 OHM	
R55			RK73FB2A821J	CHIP R 820 J 1/10W	
R56			R92-0670-05	CHIP R 0 OHM	

Ref. No.	Address	New parts	Parts No.	Description	Destination
R57-59			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R60,61			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R62			RK73FB2A151J	CHIP R 150 J 1/10W	
R63			RK73FB2A103J	CHIP R 10K J 1/10W	
R64			RK73FB2A471J	CHIP R 470 J 1/10W	
R65			RK73FB2A101J	CHIP R 100 J 1/10W	
R66			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R67			RK73FB2A333J	CHIP R 33K J 1/10W	
R68			RK73FB2A104J	CHIP R 100K J 1/10W	
R69			RK73FB2A271J	CHIP R 270 J 1/10W	
R70			RK73FB2A104J	CHIP R 100K J 1/10W	
R71			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R72			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R73			R92-0670-05	CHIP R 0 OHM	
R74			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R75			RK73FB2A471J	CHIP R 470 J 1/10W	
R76			RK73FB2A101J	CHIP R 100 J 1/10W	
R77			RK73FB2A151J	CHIP R 150 J 1/10W	
R78			RK73FB2A101J	CHIP R 100 J 1/10W	
R79			RK73FB2A823J	CHIP R 82K J 1/10W	
R80			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R81,82			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R83			RK73FB2A273J	CHIP R 27K J 1/10W	
R84			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R85			RK73FB2A103J	CHIP R 10K J 1/10W	
R86,87			RK73FB2A101J	CHIP R 100 J 1/10W	
R88			RK73FB2A331J	CHIP R 330 J 1/10W	
R89			RK73FB2A270J	CHIP R 27 J 1/10W	
R90			RK73FB2A220J	CHIP R 22 J 1/10W	
R91			RK73FB2A103J	CHIP R 10K J 1/10W	
R92			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R93			RK73FB2A152J	CHIP R 1.5K J 1/10W	
R94			RK73FB2A220J	CHIP R 22 J 1/10W	
R95			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R96			RK73FB2A471J	CHIP R 470 J 1/10W	
R97			R92-0670-05	CHIP R 0 OHM	
R98			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R99			RK73FB2A221J	CHIP R 220 J 1/10W	
R100			RK73FB2A100J	CHIP R 10 J 1/10W	
R101			RK73FB2A562J	CHIP R 5.6K J 1/10W	
R102			RK73FB2A223J	CHIP R 22K J 1/10W	
R103			RK73FB2A221J	CHIP R 220 J 1/10W	
R104			RK73FB2A470J	CHIP R 47 J 1/10W	
R105			RK73FB2A391J	CHIP R 390 J 1/10W	
R107			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R108			RK73FB2A152J	CHIP R 1.5K J 1/10W	
R109			RK73FB2A101J	CHIP R 100 J 1/10W	
R111			RK73FB2A473J	CHIP R 47K J 1/10W	
R112			RK73FB2A560J	CHIP R 56 J 1/10W	
R113			RK73FB2A471J	CHIP R 470 J 1/10W	
R114			RK73FB2A680J	CHIP R 68 J 1/10W	
R115			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R116-118			RK73FB2A101J	CHIP R 100 J 1/10W	
R120			RK73FB2A223J	CHIP R 22K J 1/10W	
R121			RK73FB2A473J	CHIP R 47K J 1/10W	
R122			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R123			RK73FB2A330J	CHIP R 33 J 1/10W	
R124,125			RK73FB2A473J	CHIP R 47K J 1/10W	
R126			RK73FB2A330J	CHIP R 33 J 1/10W	
R127,128			RK73FB2A221J	CHIP R 220 J 1/10W	

PARTS LIST

TX-RX UNIT (X57-500X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
R129			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R130			RK73FB2A221J	CHIP R 220 J 1/10W	
R131			RK73FB2A152J	CHIP R 1.5K J 1/10W	
R132			RK73FB2A330J	CHIP R 33 J 1/10W	
R133			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R134			RK73FB2A101J	CHIP R 100 J 1/10W	
R135			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R136			RK73FB2A101J	CHIP R 100 J 1/10W	
R137			RK73FB2A151J	CHIP R 150 J 1/10W	
R138			RK73FB2A223J	CHIP R 22K J 1/10W	
R139			RK73FB2A104J	CHIP R 100K J 1/10W	
R140			RK73FB2A393J	CHIP R 39K J 1/10W	
R141			RK73FB2A473J	CHIP R 47K J 1/10W	
R142			RK73FB2A331J	CHIP R 330 J 1/10W	
R143			RK73FB2A151J	CHIP R 150 J 1/10W	
R144			RK73FB2A680J	CHIP R 68 J 1/10W	
R145			RK73FB2A330J	CHIP R 33 J 1/10W	
R146			RK73FB2A151J	CHIP R 150 J 1/10W	
R147			RK73FB2A223J	CHIP R 22K J 1/10W	
R148			RK73FB2A331J	CHIP R 330 J 1/10W	
R149			RK73FB2A330J	CHIP R 33 J 1/10W	
R150			R92-0670-05	CHIP R 0 OHM	
R151			RK73FB2A330J	CHIP R 33 J 1/10W	
R152			RK73FB2A390J	CHIP R 39 J 1/10W	
R153			R92-0670-05	CHIP R 0 OHM	
R154			RK73FB2A333J	CHIP R 33K J 1/10W	
R155			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R156			RK73FB2A330J	CHIP R 33 J 1/10W	
R157			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R158			RK73FB2A331J	CHIP R 330 J 1/10W	
R159			RK73FB2A330J	CHIP R 33 J 1/10W	
R160			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R161			RK73FB2A681J	CHIP R 680 J 1/10W	
R162			RK73FB2A473J	CHIP R 47K J 1/10W	
R163			R92-0670-05	CHIP R 0 OHM	
R164			RK73FB2A331J	CHIP R 330 J 1/10W	
R165			RK73FB2A151J	CHIP R 150 J 1/10W	
R166			RK73FB2A680J	CHIP R 68 J 1/10W	
R167			RK73FB2A101J	CHIP R 100 J 1/10W	
R168			RK73FB2A561J	CHIP R 560 J 1/10W	
R169			RK73FB2A681J	CHIP R 680 J 1/10W	
R170			RK73FB2A330J	CHIP R 33 J 1/10W	
R171			RK73FB2A333J	CHIP R 33K J 1/10W	
R172			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R173			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R174-176			RK73FB2A103J	CHIP R 10K J 1/10W	
R177			RK73FB2A101J	CHIP R 100 J 1/10W	
R178			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R179			RK73FB2A223J	CHIP R 22K J 1/10W	
R180			RK73FB2A273J	CHIP R 27K J 1/10W	
R181			RK73FB2A101J	CHIP R 100 J 1/10W	
R182			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R191			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R192			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R193			RK73FB2A561J	CHIP R 560 J 1/10W	
R194			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R195			RK73FB2A560J	CHIP R 56 J 1/10W	
R196-198			RK73FB2A330J	CHIP R 33 J 1/10W	
R199			RK73FB2A101J	CHIP R 100 J 1/10W	
R200			RK73FB2A820J	CHIP R 82 J 1/10W	

Ref. No.	Address	New parts	Parts No.	Description	Destination
R201			RK73FB2A101J	CHIP R 100 J 1/10W	
R202-205			RK73FB2A103J	CHIP R 10K J 1/10W	
R207			RK73FB2A103J	CHIP R 10K J 1/10W	
R208,209			RK73FB2A101J	CHIP R 100 J 1/10W	
R210			RK73FB2A104J	CHIP R 100K J 1/10W	
R211			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R212			RK73FB2A473J	CHIP R 47K J 1/10W	
R213			RK73FB2A224J	CHIP R 220K J 1/10W	
R214			RK73FB2A331J	CHIP R 330 J 1/10W	
R215			RK73FB2A184J	CHIP R 180K J 1/10W	
R216			RK73FB2A393J	CHIP R 39K J 1/10W	
R217			RK73FB2A104J	CHIP R 100K J 1/10W	
R218			RK73FB2A224J	CHIP R 220K J 1/10W	
R219			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R220			RK73FB2A823J	CHIP R 82K J 1/10W	
R221,222			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R223			RK73FB2A331J	CHIP R 330 J 1/10W	
R224			RK73FB2A104J	CHIP R 100K J 1/10W	
R226-229			RK73FB2A103J	CHIP R 10K J 1/10W	
R230			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R231			RK73FB2A474J	CHIP R 470K J 1/10W	
R233			RK73FB2A224J	CHIP R 220K J 1/10W	
R234			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R237			RK73FB2A391J	CHIP R 390 J 1/10W	
R238			RK73FB2A101J	CHIP R 100 J 1/10W	
R239			RK73FB2A104J	CHIP R 100K J 1/10W	
R240			R92-0670-05	CHIP R 0 OHM	
R241			RK73FB2A104J	CHIP R 100K J 1/10W	
R242			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R243			RK73FB2A272J	CHIP R 2.7K J 1/10W	
R244,245			RK73FB2A223J	CHIP R 22K J 1/10W	
R246,247			RK73FB2A104J	CHIP R 100K J 1/10W	
R248			RK73FB2A473J	CHIP R 47K J 1/10W	
R249,250			RK73FB2A104J	CHIP R 100K J 1/10W	
R251			RK73FB2A224J	CHIP R 220K J 1/10W	
R252			RK73FB2A104J	CHIP R 100K J 1/10W	
R253			RK73FB2A471J	CHIP R 470 J 1/10W	
R254			RK73FB2A103J	CHIP R 10K J 1/10W	
R255			RK73FB2A273J	CHIP R 27K J 1/10W	
R256			R92-0670-05	CHIP R 0 OHM	
R260			RK73FB2A103J	CHIP R 10K J 1/10W	
R261			RK73FB2A181J	CHIP R 180 J 1/10W	
R266			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R271			RK73FB2A101J	CHIP R 100 J 1/10W	
R275			RK73FB2A563J	CHIP R 56K J 1/10W	
R278			RK73FB2A153J	CHIP R 15K J 1/10W	
R279			R92-0670-05	CHIP R 0 OHM	
R280			RK73FB2A221J	CHIP R 220 J 1/10W	
R281			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R282			RK73FB2A272J	CHIP R 2.7K J 1/10W	
R283			RK73FB2A101J	CHIP R 100 J 1/10W	
R284			RK73FB2A151J	CHIP R 150 J 1/10W	
R285,286			RK73FB2A103J	CHIP R 10K J 1/10W	
R287			RK73FB2A224J	CHIP R 220K J 1/10W	
R288			R92-0670-05	CHIP R 0 OHM	
R289			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R290			RK73FB2A683J	CHIP R 68K J 1/10W	
R291			RK73FB2A103J	CHIP R 10K J 1/10W	
R292			RK73FB2A101J	CHIP R 100 J 1/10W	
R301			RK73FB2A470J	CHIP R 47 J 1/10W	

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PARTS LIST

TX-RX UNIT (X57-500X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
R317			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R319			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R323			R92-0670-05	CHIP R 0 OHM	
R324			RK73FB2A103J	CHIP R 10K J 1/10W	
R326			RK73FB2A103J	CHIP R 10K J 1/10W	
R327			RK73FB2A104J	CHIP R 100K J 1/10W	
R328,329			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R330-333			RK73FB2A104J	CHIP R 100K J 1/10W	
R334			RK73FB2A101J	CHIP R 100 J 1/10W	
R335			RK73FB2A473J	CHIP R 47K J 1/10W	
R336			RK73FB2A271J	CHIP R 270 J 1/10W	
R337			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R338			R92-0670-05	CHIP R 0 OHM	
R339			RK73FB2A101J	CHIP R 100 J 1/10W	
R340			RK73FB2A103J	CHIP R 10K J 1/10W	
R341			RK73FB2A273J	CHIP R 27K J 1/10W	
R343			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R344			RK73FB2A103J	CHIP R 10K J 1/10W	
R345			RK73FB2A104J	CHIP R 100K J 1/10W	
R346,347			RK73FB2A4R7J	CHIP R 4.7 J 1/10W	
R349			RK73FB2A183J	CHIP R 18K J 1/10W	
R350			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R351			RK73FB2A103J	CHIP R 10K J 1/10W	
R352			RK73FB2A473J	CHIP R 47K J 1/10W	
R353			RK73FB2A334J	CHIP R 330K J 1/10W	
R354			RK73FB2A224J	CHIP R 220K J 1/10W	
R355			RK73FB2A104J	CHIP R 100K J 1/10W	
R356,357			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R358			RK73FB2A101J	CHIP R 100 J 1/10W	
R359			R92-0670-05	CHIP R 0 OHM	
R360			RK73FB2A183J	CHIP R 18K J 1/10W	
R361-364			RK73FB2A101J	CHIP R 100 J 1/10W	
R365			RK73FB2A681J	CHIP R 680 J 1/10W	
R366			RK73FB2A103J	CHIP R 10K J 1/10W	
R367			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R368			R92-0670-05	CHIP R 0 OHM	
R369			RK73FB2A103J	CHIP R 10K J 1/10W	
R370			RK73FB2A564J	CHIP R 560K J 1/10W	
R371,372			RK73FB2A104J	CHIP R 100K J 1/10W	
R374			RK73FB2A104J	CHIP R 100K J 1/10W	
R375			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R376			RK73FB2A681J	CHIP R 680 J 1/10W	
R378			RK73FB2A103J	CHIP R 10K J 1/10W	
R379-381			RK73FB2A104J	CHIP R 100K J 1/10W	
R382			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R403			RK73FB2A333J	CHIP R 33K J 1/10W	
R404			RK73FB2A104J	CHIP R 100K J 1/10W	
R405			RK73FB2A152J	CHIP R 1.5K J 1/10W	
R406			RK73FB2A122J	CHIP R 1.2K J 1/10W	
R407			RK73FB2A821J	CHIP R 820 J 1/10W	
R408			RK73FB2A151J	CHIP R 150 J 1/10W	
R409			RK73FB2A182J	CHIP R 1.8K J 1/10W	
R410			RK73FB2A392J	CHIP R 3.9K J 1/10W	
R411			RK73FB2A104J	CHIP R 100K J 1/10W	
R412			RK73FB2A392J	CHIP R 3.9K J 1/10W	
R413			RK73FB2A101J	CHIP R 100 J 1/10W	
R415			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R416			R92-0670-05	CHIP R 0 OHM	
R417			RK73FB2A153J	CHIP R 15K J 1/10W	
R418			RK73FB2A101J	CHIP R 100 J 1/10W	

Ref. No.	Address	New parts	Parts No.	Description	Destination
R420,421			RK73FB2A100J	CHIP R 10 J 1/10W	
R422			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R423			RK73FB2A223J	CHIP R 22K J 1/10W	
R424			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R425			RK73FB2A333J	CHIP R 33K J 1/10W	
R426			RK73FB2A223J	CHIP R 22K J 1/10W	
R427			RK73FB2A124J	CHIP R 120K J 1/10W	
R428			RK73FB2A104J	CHIP R 100K J 1/10W	
R429			RK73FB2A273J	CHIP R 27K J 1/10W	
R430,431			R92-0150-05	JUMPER REST 0 OHM	
R432			RK73FB2A560J	CHIP R 56 J 1/10W	
R433,434			RK73FB2A103J	CHIP R 10K J 1/10W	
R435			RK73FB2A563J	CHIP R 56K J 1/10W	
R436			RK73FB2A153J	CHIP R 15K J 1/10W	
R450-455			RK73FB2A101J	CHIP R 100 J 1/10W	
R456-461			RK73FB2A331J	CHIP R 330 J 1/10W	
R462			R92-0670-05	CHIP R 0 OHM	
R500			RK73FB2A103J	CHIP R 10K J 1/10W	
R501			RK73FB2A223J	CHIP R 22K J 1/10W	
R502			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R503			RD14CB2C101J	RD 100 J 1/6W	
R504			RD14CB2C100J	RD 10 J 1/6W	
R505,506			RK73FB2A473J	CHIP R 47K J 1/10W	
R507-508			RK73FB2A101J	CHIP R 100 J 1/10W	
R509			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R510			RK73FB2A681J	CHIP R 680 J 1/10W	
R511			RK73FB2A101J	CHIP R 100 J 1/10W	
R512			RK73FB2A471J	CHIP R 470 J 1/10W	
R513			RK73FB2A681J	CHIP R 680 J 1/10W	
R514			RK73FB2A101J	CHIP R 100 J 1/10W	
R515			RK73FB2A471J	CHIP R 470 J 1/10W	
R516			RK73FB2A271J	CHIP R 270 J 1/10W	
R517			RK73FB2A184J	CHIP R 180K J 1/10W	
R518			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R519			RK73FB2A123J	CHIP R 12K J 1/10W	
R520			RK73FB2A103J	CHIP R 10K J 1/10W	
R521			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R522			RK73FB2A392J	CHIP R 3.9K J 1/10W	
R523			RK73FB2A822J	CHIP R 8.2K J 1/10W	
R524			RK73FB2A684J	CHIP R 680K J 1/10W	
R525			RK73FB2A182J	CHIP R 1.8K J 1/10W	
R526			RK73FB2A333J	CHIP R 33K J 1/10W	
R527			RK73FB2A104J	CHIP R 100K J 1/10W	
R528			RK73FB2A220J	CHIP R 22 J 1/10W	
R529-531			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R532			RK73FB2A104J	CHIP R 100K J 1/10W	
R533			RK73FB2A331J	CHIP R 330 J 1/10W	
R534			RK73FB2A271J	CHIP R 270 J 1/10W	
R535,536			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R537			RK73FB2A560J	CHIP R 56 J 1/10W	
R538			RK73FB2A471J	CHIP R 470 J 1/10W	
R539			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R540			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R541			RK73FB2A331J	CHIP R 330 J 1/10W	
R542			RK73FB2A220J	CHIP R 22 J 1/10W	
R543			RK73FB2A101J	CHIP R 100 J 1/10W	
R547			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R548,549			RK73FB2A561J	CHIP R 560 J 1/10W	
R550			RK73FB2A223J	CHIP R 22K J 1/10W	
R551			RK73FB2A103J	CHIP R 10K J 1/10W	

PARTS LIST

TX-RX UNIT (X57-500X-XX)

Ref. No.	Address	New parts	Parts No.	Description				Destination
R552			RK73FB2A101J	CHIP R	100	J	1/10W	
R553			RK73FB2A471J	CHIP R	470	J	1/10W	
R554			RK73FB2A103J	CHIP R	10K	J	1/10W	
R555			RK73FB2A153J	CHIP R	15K	J	1/10W	
R556			RK73FB2A221J	CHIP R	220	J	1/10W	
R557			RK73FB2A101J	CHIP R	100	J	1/10W	
R558			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R559			RK73FB2A681J	CHIP R	680	J	1/10W	
R560			R92-0670-05	CHIP R	0 OHM			
R561			RK73FB2A101J	CHIP R	100	J	1/10W	
R562			RK73FB2A332J	CHIP R	3.3K	J	1/10W	
R563,564			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R565			RK73FB2A221J	CHIP R	220	J	1/10W	
R566			RK73FB2A101J	CHIP R	100	J	1/10W	
R567			RK73FB2A680J	CHIP R	68	J	1/10W	
R568			RK73FB2A821J	CHIP R	820	J	1/10W	
R569			RK73FB2A680J	CHIP R	68	J	1/10W	
R570			RK73FB2A103J	CHIP R	10K	J	1/10W	
R571			RK73FB2A222J	CHIP R	2.2K	J	1/10W	
R572			RK73FB2A331J	CHIP R	330	J	1/10W	
R573,574			RK73FB2A101J	CHIP R	100	J	1/10W	
R575			RK73FB2A471J	CHIP R	470	J	1/10W	
R576			RK73FB2A470J	CHIP R	47	J	1/10W	
R577			RK73FB2A220J	CHIP R	22	J	1/10W	
R578			RK73FB2A222J	CHIP R	2.2K	J	1/10W	
R579,580			RK73FB2A561J	CHIP R	560	J	1/10W	
R581			RK73FB2A223J	CHIP R	22K	J	1/10W	
R582			RK73FB2A103J	CHIP R	10K	J	1/10W	
R583			RK73FB2A101J	CHIP R	100	J	1/10W	
R584			RK73FB2A471J	CHIP R	470	J	1/10W	
R585			RK73FB2A103J	CHIP R	10K	J	1/10W	
R586			RK73FB2A153J	CHIP R	15K	J	1/10W	
R587			RK73FB2A221J	CHIP R	220	J	1/10W	
R588			RK73FB2A101J	CHIP R	100	J	1/10W	
R589			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R590			RK73FB2A681J	CHIP R	680	J	1/10W	
R591			R92-0670-05	CHIP R	0 OHM			
R592			RK73FB2A101J	CHIP R	100	J	1/10W	
R593			RK73FB2A391J	CHIP R	390	J	1/10W	
R594			RK73FB2A223J	CHIP R	22K	J	1/10W	
R595			RK73FB2A103J	CHIP R	10K	J	1/10W	
R596,597			RK73FB2A101J	CHIP R	100	J	1/10W	
R598			RK73FB2A471J	CHIP R	470	J	1/10W	
R599			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R600,601			RK73FB2A103J	CHIP R	10K	J	1/10W	
R602			RK73FB2A101J	CHIP R	100	J	1/10W	
R603			RK73FB2A471J	CHIP R	470	J	1/10W	
R604			RK73FB2A333J	CHIP R	33K	J	1/10W	
R605			RK73FB2A682J	CHIP R	6.8K	J	1/10W	
R606			RK73FB2A150J	CHIP R	15	J	1/10W	
R607			RK73FB2A221J	CHIP R	220	J	1/10W	
R608,609			RK73FB2A470J	CHIP R	47	J	1/10W	
R610			RK73FB2A471J	CHIP R	470	J	1/10W	
R611-613			R92-0670-05	CHIP R	0 OHM			
R614			RK73FB2A101J	CHIP R	100	J	1/10W	
R615			RK73FB2A122J	CHIP R	1.2K	J	1/10W	
R616			RK73FB2A331J	CHIP R	330	J	1/10W	
R617			RK73FB2A101J	CHIP R	100	J	1/10W	
R618			RK73FB2A822J	CHIP R	8.2K	J	1/10W	
R619			RK73FB2A272J	CHIP R	2.7K	J	1/10W	

Ref. No.	Address	New parts	Parts No.	Description				Destination
R620			RK73FB2A471J	CHIP R	470	J	1/10W	
R621			RK73FB2A101J	CHIP R	100	J	1/10W	
R622,623			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R624			RK73FB2A101J	CHIP R	100	J	1/10W	
R625			RK73FB2A681J	CHIP R	680	J	1/10W	
R626			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R627			RK73FB2A183J	CHIP R	18K	J	1/10W	
R628			RK73FB2A122J	CHIP R	1.2K	J	1/10W	
R629			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R630			RK73FB2A683J	CHIP R	68K	J	1/10W	
R631			RK73FB2A182J	CHIP R	1.8K	J	1/10W	
R632			RK73FB2A151J	CHIP R	150	J	1/10W	
R633			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R634			RK73FB2A221J	CHIP R	220	J	1/10W	
R639			RK73FB2A101J	CHIP R	100	J	1/10W	
R640			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R641			RK73FB2A271J	CHIP R	270	J	1/10W	
R642			RK73FB2A332J	CHIP R	3.3K	J	1/10W	
R643			RK73FB2A101J	CHIP R	100	J	1/10W	
R644			RK73FB2A682J	CHIP R	6.8K	J	1/10W	
R645			RK73FB2A271J	CHIP R	270	J	1/10W	
R646			RK73FB2A332J	CHIP R	3.3K	J	1/10W	
R647			RK73FB2A101J	CHIP R	100	J	1/10W	
R648			RK73FB2A682J	CHIP R	6.8K	J	1/10W	
R649			RK73FB2A271J	CHIP R	270	J	1/10W	
R650			RK73FB2A332J	CHIP R	3.3K	J	1/10W	
R651			RK73FB2A101J	CHIP R	100	J	1/10W	
R652			RK73FB2A471J	CHIP R	470	J	1/10W	
R653			RK73FB2A223J	CHIP R	22K	J	1/10W	
R654			RK73FB2A103J	CHIP R	10K	J	1/10W	
R655			RK73FB2A561J	CHIP R	560	J	1/10W	
R656,657			RK73FB2A330J	CHIP R	33	J	1/10W	
R658			RK73FB2A562J	CHIP R	5.6K	J	1/10W	
R659			RK73FB2A103J	CHIP R	10K	J	1/10W	
R660			RK73FB2A101J	CHIP R	100	J	1/10W	
R661			RK73FB2A221J	CHIP R	220	J	1/10W	
R662			RK73FB2A471J	CHIP R	470	J	1/10W	
R663			RK73FB2A100J	CHIP R	10	J	1/10W	
R664			RK73FB2A471J	CHIP R	470	J	1/10W	
R665			RK73FB2A332J	CHIP R	3.3K	J	1/10W	
R666,667			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R668			RK73FB2A470J	CHIP R	47	J	1/10W	
R669			RK73FB2A471J	CHIP R	470	J	1/10W	
R671			RK73FB2A101J	CHIP R	100	J	1/10W	
R673-678			RK73FB2A101J	CHIP R	100	J	1/10W	
R696,697			RK73FB2A103J	CHIP R	10K	J	1/10W	
R698			RK73FB2A152J	CHIP R	1.5K	J	1/10W	
R699			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R700			R92-0670-05	CHIP R	0 OHM			
R701			RK73FB2A331J	CHIP R	330	J	1/10W	
R702			RK73FB2A180J	CHIP R	18	J	1/10W	
R703			RK73FB2A331J	CHIP R	330	J	1/10W	
R704			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R705			RK73FB2A330J	CHIP R	33	J	1/10W	
R706			RK73FB2A393J	CHIP R	39K	J	1/10W	
R707			RK73FB2A470J	CHIP R	47	J	1/10W	
R708			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R709			RK73FB2A103J	CHIP R	10K	J	1/10W	
R710			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R711			RK73FB2A471J	CHIP R	470	J	1/10W	

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PARTS LIST

TX-RX UNIT (X57-500X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
R712			RK73FB2A330J	CHIP R 33 J 1/10W	
R715			RK73FB2A101J	CHIP R 100 J 1/10W	
R716			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R717			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R718			RK73FB2A331J	CHIP R 330 J 1/10W	
R719			RK73FB2A220J	CHIP R 22 J 1/10W	
R720			RK73FB2A683J	CHIP R 68K J 1/10W	
R721			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R722-725			RK73FB2A331J	CHIP R 330 J 1/10W	
R800			RK73FB2A221J	CHIP R 220 J 1/10W	
R801			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R802			RK73FB2A103J	CHIP R 10K J 1/10W	
R803			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R804			R92-0670-05	CHIP R 0 OHM	
R805			RK73FB2A223J	CHIP R 22K J 1/10W	
R806			RK73FB2A333J	CHIP R 33K J 1/10W	
R807			RK73FB2A683J	CHIP R 68K J 1/10W	
R808,809			RK73FB2A103J	CHIP R 10K J 1/10W	
R810			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R811			RK73FB2A152J	CHIP R 1.5K J 1/10W	
R812			RK73FB2A333J	CHIP R 33K J 1/10W	
R813			RK73FB2A221J	CHIP R 220 J 1/10W	
R814			RK73FB2A103J	CHIP R 10K J 1/10W	
R815			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R816			RK73FB2A563J	CHIP R 56K J 1/10W	
R817			RK73FB2A101J	CHIP R 100 J 1/10W	
R818			RK73FB2A681J	CHIP R 680 J 1/10W	
R819			RK73FB2A682J	CHIP R 6.8K J 1/10W	
VR1			R12-6711-05	TRIMMING POT. 4.7K	
VR2			R12-6707-05	TRIMMING POT. 1.0K	
VR3			R12-6717-05	TRIMMING POT. 47K	
VR4,5			R12-6713-05	TRIMMING POT. 10K	
VR8			R12-6740-05	TRIMMING POT. 10K	
VR9			R12-6703-05	TRIMMING POT. 220	
VR450			R31-0615-15	VARIABLE R 100K x 2	
VR451,452			R31-0612-05	VARIABLE R 100K x 2	
K1			S51-1428-05	RELAY	
K2			S51-1420-05	RELAY	
D1			LFB01	DIODE	
D2			RLS245	DIODE	
D3,4			V08(G)	DIODE	
D5			RLS245	DIODE	
D6-8			RN731H	DIODE	
D9			LFB01	DIODE	
D10			RN731H	DIODE	
D11			LFB01	DIODE	
D12			RN731H	DIODE	
D13			LFB01	DIODE	
D14			RN731H	DIODE	
D15			LFB01	DIODE	
D16			RN731H	DIODE	
D17			LFB01	DIODE	
D18			RN731H	DIODE	
D19			LFB01	DIODE	
D20			RN731H	DIODE	
D21			LFB01	DIODE	
D22			RN731H	DIODE	
D23			LFB01	DIODE	

Ref. No.	Address	New parts	Parts No.	Description	Destination
D24			RN731H	DIODE	
D25			LFB01	DIODE	
D26			RN731H	DIODE	
D27			LFB01	DIODE	
D30			LFB01	DIODE	
D31			MA110	DIODE (or 1SS355)	
D32			LFB01	DIODE	
D33			DAP236K	DIODE	
D34			1SS312	DIODE	
D35-37			DAP236K	DIODE	
D38,39			LFB01	DIODE	
D40			DAP236K	DIODE	
D41			1SS312	DIODE	
D42			DAP236K	DIODE	
D43			RN731H	DIODW	
D44			1SS312	DIODW	
D45			LFB01	DIODW	
D46,47			DAP236K	DIODW	
D48-50			MA110	DIODE (or 1SS355)	
D51			LFB01	DIODW	
D52			RN731H	DIODE	
D53,54			DAP236K	DIODE	
D55			LFB01	DIODE	
D56			RN739D	DIODE	
D57			B30-2001-05	LED	
D58			MA110	DIODE (or 1SS355)	
D61			LFB01	DIODE	
D62			RB751H	DIODE	
D63			1SS226	DIODE	
D64			02CZ6.2(Y)	DIODE	
D68			LFB01	DIODE	
D69			RB751H	DIODE	
D71			RB751H	DIODE	
D73			02CZ3.3(Z)	ZENER	
D74			02CZ4.7(Y)	ZENER	
D75			MA110	DIODE (or 1SS355)	
D76			1SS226	DIODE	
D77			02CZ6.2(Y)	ZENER	
D82			LFB01	DIODE	
D85			MA110	DIODE (or 1SS355)	
D89-92			MA110	DIODE (or 1SS355)	
D95			MA110	DIODE (or 1SS355)	
D96			02CZ5.1(Y)	ZENER	
D97			DAP236K	DIODE	
D98			DAN202K	DIODE	
D99,100			02CZ24(Y)	ZENER	
D101,102			MA110	DIODE (or 1SS355)	
D103,104			LFB01	DIODE	
D500,501			1SV269	VARIABLE CAP	
D502			RLS135	DIODE	
D503			1SV269	VARIABLE CAP	
D504			RLS135	DIODE	
D505			1SV269	VARIABLE CAP	
D506			RLS135	DIODE	
D507			DAP202K	DIODE	
D508,509			MA110	DIODE (or 1SS355)	
D800			MA716	DIODE	
IC1			NJM2904M	IC (OP AMP X2)	
IC2			UPC1037GR	IC (BALANCED MODULATOR)	
IC3			BU2090FS	IC (SHIFT/STORE REGISTER)	

PARTS LIST

TX-RX UNIT (X57-500X-XX)
ENCODER (X59-4110-00)

Ref. No.	Address	New parts	Parts No.	Description	Destination
IC4			BU4066BCFV	IC (ANALOG SWITCH X4)	
IC5			NJM2902M	IC (OP AMP X4)	
IC6			M62363FP	IC (8bit D/A CONVERTER)	
IC7			KCD10	HIC	
IC8			LA4446	IC (AF POWER AMP)	
IC9			BU4066BCFV	IC (ANALOG SWITCH X4)	
IC11			TC9174F	IC (CMOS I/O EXTENSION)	
IC12			BU4066BCFV	IC (ANALOG SWITCH X4)	
IC13			NJM2904M	IC (OP AMP X2)	
IC14			NJU3718G	IC (20BIT SERIAL-PARA CHANGER)	
IC15			KCD11	HIC	
IC16			KCC11	HIC	
IC17			TC7S08F	IC (2CH AND GATE)	
IC500			MB86001PF	IC (PLL FREQUENCY SYNTHESIZER)	
IC501,502			F71022	IC (DDS)	
IC503,504			UPC1037GR	IC (BALANCED MODULATOR)	
IC505			UPC1686G	IC (MIX)	
IC506			SN76514N	IC (MIXER)	
IC507			MB86001PF	IC (PLL FREQUENCY SYNTHESIZER)	
IC508			BU4S66	IC (ANALOG SWITCH)	
IC510			TC7S08F	IC (2CH AND GATE)	
IC511			NJM78L08UA	IC (VOLTAGE REGULATOR/ +8V)	
IC900			ADM232LAR	IC (RS-232C DRIVERS/RECEIVERS)	
Q1			DTA124EK	DIGITAL TRANSISTOR	
Q2			2SD1757K(S)	TRANSISTOR	
Q3			2SB1188(Q,R)	TRANSISTOR	
Q4			DTC143TK	DIGITAL TRANSISTOR	
Q5-8			2SK520(K44)	FET	
Q9			RU201	TRANSISTOR	
Q10			2SK520(K43)	FET	
Q11,12			3SK131(M)	FET	
Q13			2SK520(K43)	FET	
Q14,15			2SC2412K(S)	TRANSISTOR	
Q16			2SC3357	TRANSISTOR	
Q17,18			2SK520(K44)	FET	
Q20			DTA124EK	DIGITAL TRANSISTOR	
Q21,22			2SC2412K(S)	TRANSISTOR	
Q24			FMC2	TRANSISTOR	
Q25			3SK131(M)	FET	
Q26			DTA143EK	DIGITAL TRANSISTOR	
Q27			3SK131(M)	FET	
Q28			3SK184(R)	FET	
Q29,30			3SK131(M)	FET	
Q31			3SK184(R)	FET	
Q35			2SC2954	TRANSISTOR	
Q36			2SC2412K(S)	TRANSISTOR	
Q37			DTC114EK	DIGITAL TRANSISTOR	
Q38			2SC2412K(S)	TRANSISTOR	
Q39			2SA1037K(R)	TRANSISTOR	
Q40,41			2SC2412K(S)	TRANSISTOR	
Q42			2SB1188(Q,R)	TRANSISTOR	
Q49			2SD1624(S)	TRANSISTOR	
Q50			DTC114EK	DIGITAL TRANSISTOR	
Q51			DTC143TK	DIGITAL TRANSISTOR	
Q52			DTC124EK	DIGITAL TRANSISTOR	
Q57			DTC114EK	DIGITAL TRANSISTOR	
Q59			FMA5	TRANSISTOR	
Q61			FMA5	TRANSISTOR	
Q64			2SC2412K(S)	TRANSISTOR	
Q65-67			DTC114EK	DIGITAL TRANSISTOR	

Ref. No.	Address	New parts	Parts No.	Description	Destination
Q68,69			2SB1188(Q,R)	TRANSISTOR	
Q70			DTC114EK	DIGITAL TRANSISTOR	
Q71			DTC143EK	DIGITAL TRANSISTOR	
Q72			FMG3A	TRANSISTOR	
Q73			DTA143EK	DIGITAL TRANSISTOR	
Q75-79			DTC114EK	DIGITAL TRANSISTOR	
Q80			DTC124EK	DIGITAL TRANSISTOR	
Q81			DTC114EK	DIGITAL TRANSISTOR	
Q500-503			2SC2714(Y)	TRANSISTOR	
Q504			2SC2412K(S)	TRANSISTOR	
Q505-507			2SC3722K(R)	TRANSISTOR	
Q508			DTC143TK	DIGITAL TRANSISTOR	
Q509			2SK1875(V)	FET	
Q510,511			2SC2714(Y)	TRANSISTOR	
Q512			2SC2412K(S)	TRANSISTOR	
Q513			2SC2712(GR)	TRANSISTOR	
Q514-517			2SC2412K(S)	TRANSISTOR	
Q518			2SC2712(GR)	TRANSISTOR	
Q519,520			2SC2412K(S)	TRANSISTOR	
Q521,522			2SC2714(Y)	TRANSISTOR	
Q523			2SC2412K(S)	TRANSISTOR	
Q524-526			2SC3722K(R)	TRANSISTOR	
Q527			DTC114EK	DIGITAL TRANSISTOR	
Q528			2SK1875(V)	FET	
Q529			DTC114EK	DIGITAL TRANSISTOR	
Q530			2SK1875(V)	FET	
Q531			DTC114EK	DIGITAL TRANSISTOR	
Q532			2SK1875(V)	FET	
Q533-535			2SC2714(Y)	TRANSISTOR	
Q543			2SC2714(Y)	TRANSISTOR	
Q544			2SC2412K(R)	TRANSISTOR	
Q545,546			2SC2714(Y)	TRANSISTOR	
Q800			2SC2714(Y)	TRANSISTOR	
Q801			DTC114EK	DIGITAL TRANSISTOR	
Q802			2SC2714(Y)	TRANSISTOR	
Q803			2SC2412K(S)	TRANSISTOR	
Q804			2SC2714(Y)	TRANSISTOR	
Q805			2SC2412K(S)	TRANSISTOR	
Q806			2SC2714(Y)	TRANSISTOR	
Q807			DTA114EK	DIGITAL TRANSISTOR	
TH1			157-502-53002	THERMISTOR (5K)	
TH2			157-501-53009	THERMISTOR (500)	
TH3			157-302-53008	THERMISTOR (3K)	
TH4			157-102-53003	THERMISTOR (1K)	
TH5			157-302-53008	THERMISTOR (3K)	
TH6			157-102-53003	THERMISTOR (1K)	
TH7			157-103-55001	THERMISTOR (10K)	
TH8			157-102-53003	THERMISTOR (1K)	

ENCODER (X59-4110-00)

C1-3			CK73GB1H103K	CHIP C	0.010UF	K	
C4,5			CK73GB1H102K	CHIP C	1000PF	K	
C6,7			CC73GCH1H101J	CHIP C	100PF	J	
C8			C92-0040-05	CHIP C	47UF	16WV	
CN1			E40-3239-05	PIN ASSY (4P)			
R1,2			RK73GB1J223J	CHIP R	22K	J	1/16W
R3,4			RK73GB1J103J	CHIP R	10K	J	1/16W

PARTS LIST

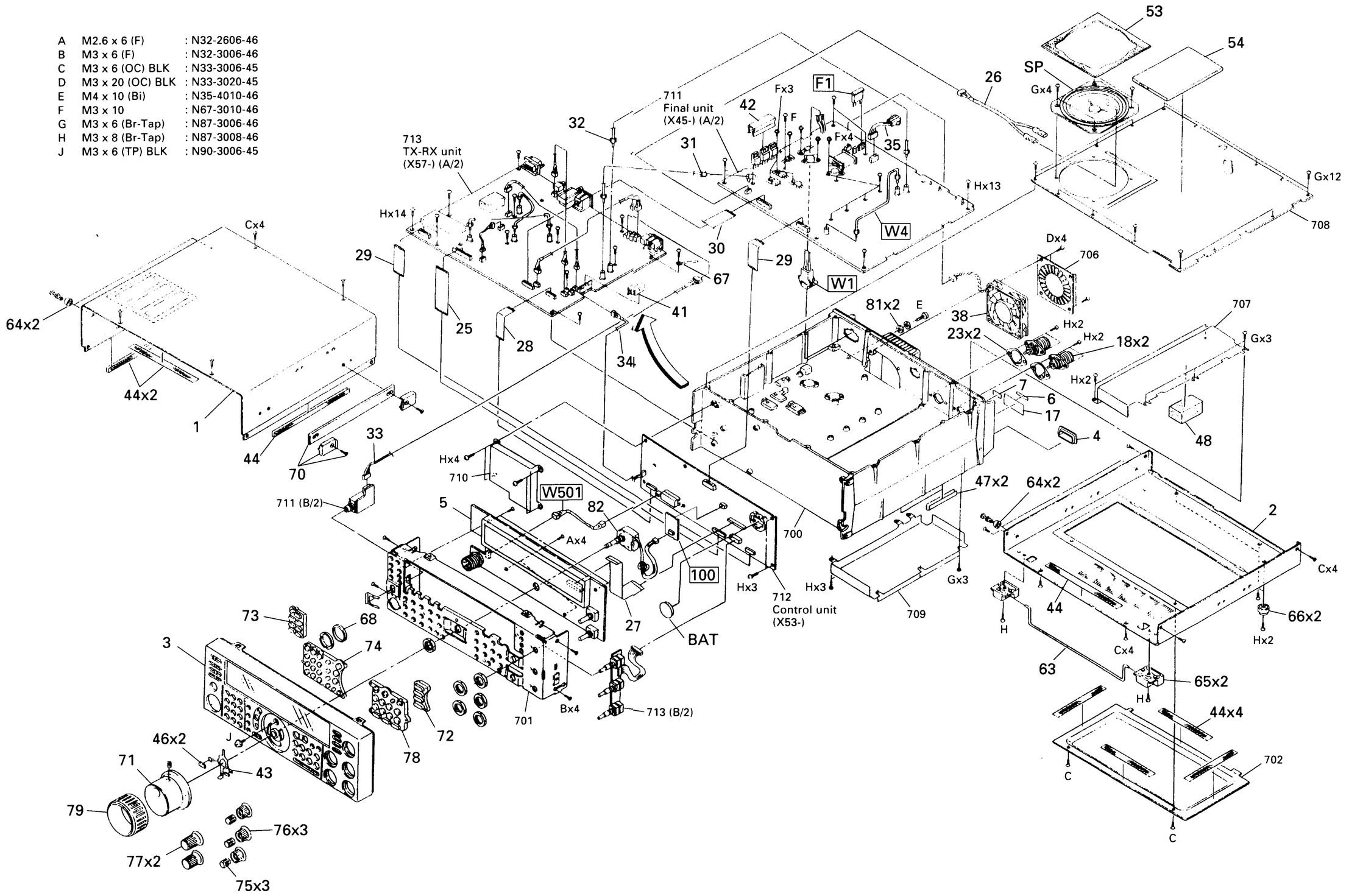
ENCODER (X59-4110-00)
LCD ASSY (B38-0765-05)

Ref. No.	Address	New parts	Parts No.	Description	Destination
R5-7			RK73GB1J223J	CHIP R 22K J 1/16W	
D1-6			1SS355	DIODE (or MA110)	
IC1			TC74HC00AF	IC	
IC2			TC74HC86AF	IC	
IC3			TC74HC00AF	IC	
LCD ASSY (B38-0765-05)					
C2-10			CK73FB1H102K	CHIP C 1000PF K	
C11			CK73FF1E104Z	CHIP C 0.10UF Z	
C12-21			CK73FB1H103K	CHIP C 0.010UF K	
C22			C92-0672-05	CHIP TAN 22UF 16WV	
C23-26			CK73FB1H103K	CHIP C 0.010UF K	
C27			CC73FSL1H681J	CHIP C 680PF J	
C28-40			CK73FB1HXXXJ	CHIP C	
C41		*	C92-0677-05	CHIP TAN 22UF 25WV	
C42			CK73FB1H103K	CHIP C 0.010UF K	
C43			CK73FB1H223K	CHIP C 0.022UF K	
CN1			E40-5880-08	CONNECTOR (26P)	
CN2			E40-3247-05	CONNECTOR (3P)	
CN3			E29-1161-08	LEVER CONNECTOR	
CN4,5			E29-1162-08	LEVER CONNECTOR	
J1			E06-0858-15	MIC CONNECTOR (8P)	
L1			L40-1292-18		
R1-37			RK73FB2AXXXJ	CHIP R	
R38,39			R92-0699-05	CHIP R 10 J 1/2W	
R40			RK73FB2A100J	CHIP R 10 J 1/10W	
R41			RK73FB2A182J	CHIP R 1.8K J 1/10W	
SW3-50			S70-0447-05	TACT SWITCH	
D1-15			1SS355	DIODE	
IC1			MSM5265GS-BK	IC (LCD DRIVER)	
IC2			NJU6432BFE1	IC	
IC3			NJU3715G	IC (SER PARA CHANGEOVER)	
LCD1			B38-0779-08	LCD ELEMENT	
PL1-6			B30-2163-08	POILOT LAMP	
Q1			2SA1641(S,T)	TRANSISTOR	
Q2			2SC2712(Y)	TRANSISTOR	
Q3			2SA1162(Y)	TRANSISTOR	
Q4-6			DTC123EK	TRANSISTOR	
Q7			DTC144EK	TRANSISTOR	
SW1			W02-1901-05	ENCODER (MULTI/CH)	
SW2			W02-1902-05	ENCODER (RIT/XIT)	

Ref. No.	Address	New parts	Parts No.	Description	Destination

EXPLODED VIEW

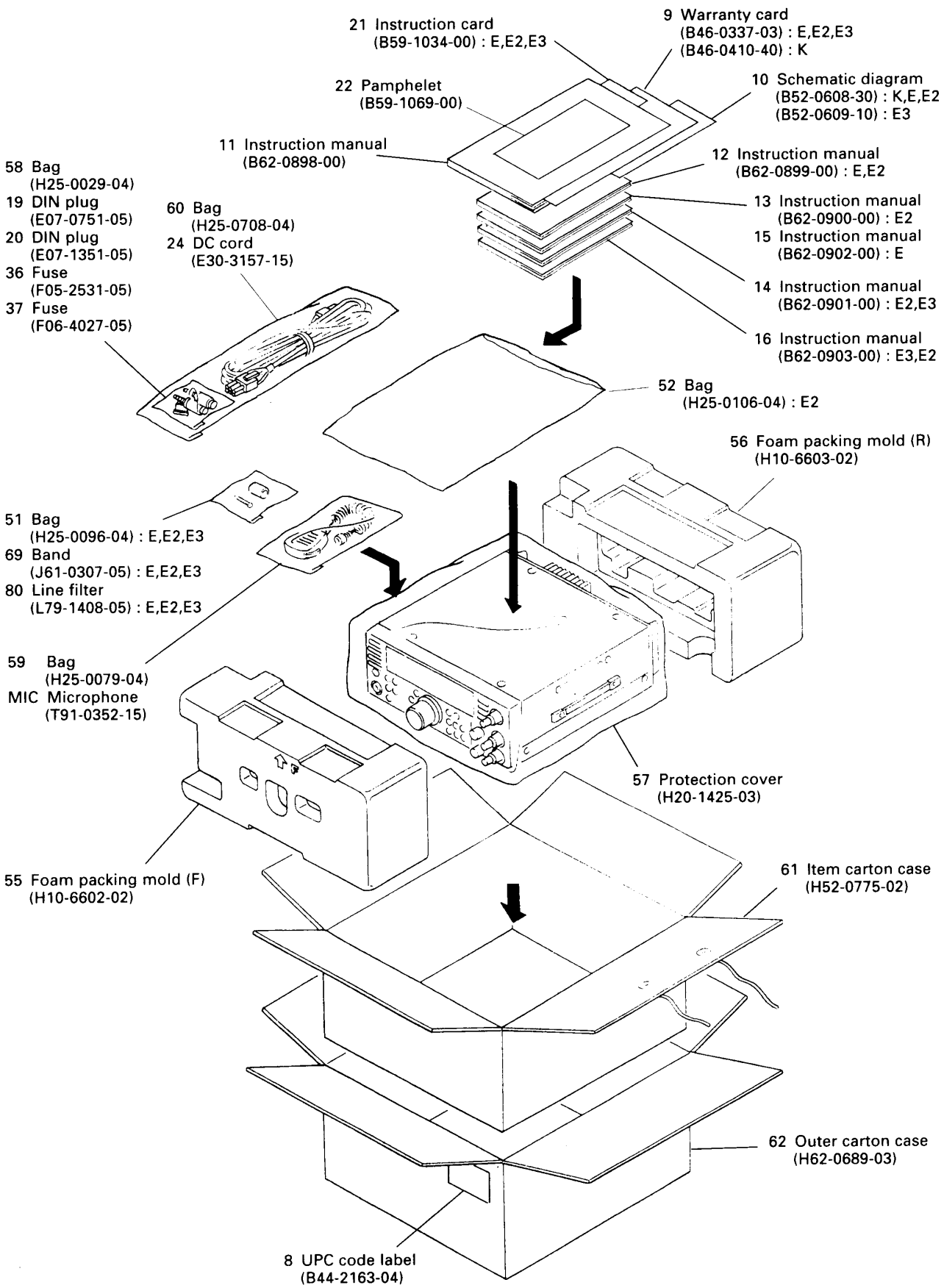
A	M2.6 x 6 (F)	: N32-2606-46
B	M3 x 6 (F)	: N32-3006-46
C	M3 x 6 (OC) BLK	: N33-3006-45
D	M3 x 20 (OC) BLK	: N33-3020-45
E	M4 x 10 (Bi)	: N35-4010-46
F	M3 x 10	: N67-3010-46
G	M3 x 6 (Br-Tap)	: N87-3006-46
H	M3 x 8 (Br-Tap)	: N87-3008-46
J	M3 x 6 (TP) BLK	: N90-3006-45



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

PACKING

E F


21 Instruction card
(B59-1034-00) : E,E2,E3
9 Warranty card
(B46-0337-03) : E,E2,E3
(B46-0410-40) : K
22 Pamphelet
(B59-1069-00)
10 Schematic diagram
(B52-0608-30) : K,E,E2
(B52-0609-10) : E3
11 Instruction manual
(B62-0898-00)
12 Instruction manual
(B62-0899-00) : E,E2
13 Instruction manual
(B62-0900-00) : E2
15 Instruction manual
(B62-0902-00) : E
14 Instruction manual
(B62-0901-00) : E2,E3
16 Instruction manual
(B62-0903-00) : E3,E2
58 Bag
(H25-0029-04)
19 DIN plug
(E07-0751-05)
20 DIN plug
(E07-1351-05)
36 Fuse
(F05-2531-05)
37 Fuse
(F06-4027-05)
60 Bag
(H25-0708-04)
24 DC cord
(E30-3157-15)
52 Bag
(H25-0106-04) : E2
56 Foam packing mold (R)
(H10-6603-02)
51 Bag
(H25-0096-04) : E,E2,E3
69 Band
(J61-0307-05) : E,E2,E3
80 Line filter
(L79-1408-05) : E,E2,E3
59 Bag
(H25-0079-04)
MIC Microphone
(T91-0352-15)
57 Protection cover
(H20-1425-03)
55 Foam packing mold (F)
(H10-6602-02)
61 Item carton case
(H52-0775-02)
62 Outer carton case
(H62-0689-03)
8 UPC code label
(B44-2163-04)

ADJUSTMENT

Service Adjustment Mode

■ Outline

1. The transceiver is adjusted by the normal method and by a method using the service adjustment mode (automatic adjustment).
2. There are adjustment items of menu numbers 00 to 51 in the service adjustment mode. All adjustment data are saved in the EEPROM.
3. When the service adjustment mode is entered, data is read from the EEPROM and placed in the CPU RAM, so it can be modified.
4. The EEPROM is updated only when data is written in Menu No. 51.

■ Operation Procedure

1) Entering the service adjustment mode

1. Before turning the power on, insert the adjustment jig into the ACC2 socket.
2. Hold down the [N.R.] key and [LSB/USB] key and turn the [POWER] switch on. The display (LCD) shows "ADJUST" and then the adjustment mode menu.
3. After "ADJUST" appears, remove the short plug from the ACC2. (The transmitter cannot be adjusted without removing it.)

2) Menu number selection

When the [MULTE/CH] control is turned, the menu number changes.

3) Changing the setting data

Setting data can be changed by using the [UP] or [DOWN] key on the transceiver or the microphone.

4) Writing data

Press the [UP] or [DOWN] key on the transceiver or the microphone with MENU No.51 to write data.

5) Canceling the service adjustment mode

When the [CLR] key is pressed, the normal VFO mode display returns.

Notes:

1. The transceiver can transmit signals in the receiver adjustment mode. If a microphone is connected to the transceiver, take special care not to press the PTT key.
2. If the power is switched off during adjustment in the adjustment mode, the adjustment mode is canceled.

Service Adjustment Mode Menu

Menu No.	Function	Description
00	AGC	AGC reference voltage (14.1MHz USB)
01	ALC	ALC reference voltage (14.2MHz USB)
02	SSB SQL threshold	(14.1MHz USB)
03	S-meter (SSB)	Start level (S1) setting (14.1MHz USB)
04		S9 level setting (14.1MHz USB)
05		S9+60dB (full scale) level setting (14.1MHz USB)
06	FM SQL threshold	(29.1MHz FM)
07	S-meter (FM)	Start level (S1) setting (29.1MHz FM)
08		Full scale level setting (29.1MHz FM)
09~15	Not use	
16	SQL VR center	SQL VR center voltage reading (14.1MHz)
17	IF SHIFT center	IF SHIFT center voltage reading (14.1MHz)
18	100W protection setting	Read data at the 100W point on the RF meter (14.2MHz USB)
19	50W protection setting	Read data at the 50W point on the RF meter (14.2MHz USB)
20	25W protection setting	Read data at the 25W point on the RF meter (14.2MHz USB)
21	10W protection setting	Read data at the 10W point on the RF meter (14.2MHz USB)
22	5W protection setting	Read data at the 5W point on the RF meter (14.2MHz USB)
23	TGC setting	1.8MHz band (100W) (1.840MHz USB)
24		3.5MHz band (100W) (3.5MHz USB)
25		7MHz band (100W) (7.0MHz USB)
26		10MHz band (100W) (10.1MHz USB)
27		14MHz band (100W) (14.2MHz USB)
28		18MHz band (100W) (18.068MHz USB)
29		21MHz band (100W) (21.0MHz USB)
30		25MHz band (100W) (24.89MHz USB)
31		28MHz band (100W) (29.69MHz USB)

ADJUSTMENT

Menu No.	Function	Description
32	Not use	
33	TGC setting	14MHz band (50W) (14.2MHz USB)
34		14MHz band (25W) (14.2MHz USB)
35		14MHz band (10W) (14.2MHz USB)
36		14MHz band (5W) (14.2MHz USB)
37	ALC meter voltage reading	Start level setting (14.2MHz USB)
38		Maximum zone level setting (14.2MHz USB)
39	CAR level setting	CW (14.2MHz CW)
40		AM (14.2MHz AM)
41	FM maximum deviation	(29.69MHz FM)
42	SSB CAR shift compensation	USB (14.2MHz USB)
43		LSB (14.2MHz LSB)
44	SSB CAR suppression	USB (14.2MHz USB)
45		LSB (14.2MHz LSB)
46	SWR protection voltage setting	(14.2MHz CW)
47	HF band SWR=3.0 reading	For display in TX (1.840MHz CW)
48	Not use	
49	Check sum display	Sum of ROM's data (14.1MHz)
50	All LCD segments light	Display checking
51	Writing into EEPROM	

Display Check

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. All reset	1) DC IN : DC 13.8V Pushing [A=B] key down, [POWER] : ON				Front panel	LCD	After displaying "HELLO", the display is reset as follows; DISP f. : 14.000.00 MODE : USB ANT : 1 METER : ALC PRE AMP	Display should be normal. Should be at the reset frequency.
2. All LCD segments light	1) Menu No. : 50	ACC2 Jig (Short plug)					Check	All LCD segments light.

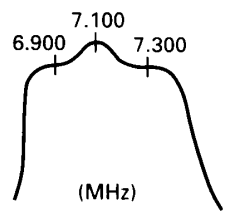
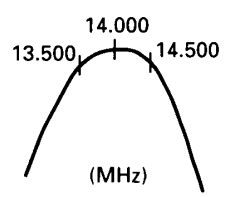
PLL Section

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. Reference oscillation (20MHz)	1) Display f. : 14.750MHz MODE : AM	f. counter	TX-RX (PLL)	TP505	TX-RX (PLL)	TC500	20.000.000MHz	±20Hz
2. 60MHz	1) Display f. : 14.750MHz MODE : AM	Oscilloscope		TP506		L529 L530	Repeat for MAX.	
3. 65MHz BPF	1) Display f. : 14.750MHz MODE : AM			TP503		L533 L534 L535	Repeaat for MAX.	

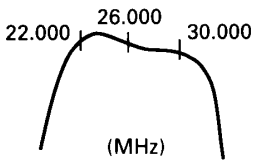
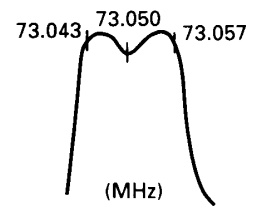
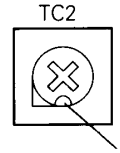
ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
4. Lock voltage VCO1A	1) Display f. : 30kHz MODE : AM	DC V.M	TX-RX (PLL)	TP501	TX-RX (PLL)	TC502	2.0V	±0.05V
	2) Display f. : 10.980MHz						Check	6.5V or less
5. Lock voltage VCO1B	1) Display f. : 10.990MHz MODE : AM				TX-RX (PLL)	TC503	2.0V	±0.05V
	2) Display f. : 23.980MHz						Check	6.5V or less
6. Lock voltage VCO1C	1) Display f. : 23.990MHz MODE : AM				TX-RX (PLL)	TC504	2.0V	±0.05V
	2) Display f. : 29.990MHz						Check	6.5V or less
7. LO2 VCO2 voltage	1) Display f. : 14.100MHz MODE : AM			TP504			Check	3.0~6.0V
8. LO1 level	1) Display f. : 14.100MHz MODE : AM	RF V.M		CN503			Check	0~+3dBm
9. LO2 level	Measurement condition : 50Ω terminated			CN501				0~+4dBm
10. CAR level	1) Display f. : 14.100MHz MODE : AM	Oscilloscope		CN502			Check	1.0Vp-p±0.2

Receiver Section

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. AGC voltage	1) Menu No. : 00 (14.100MHz USB)	DC V.M	TX-RX (RF)	TP2	Front panel	UP or DOWN key	2.9V	±0.03V
• Writing data : After item 1 has been adjusted; 1) Menu No. : 51 2) [UP] or [DOWN] key : Push once time Display "rEAdy" → "run" → "good" (If "nG" is displayed, enter data again.) 3) [CLR] key : Push once time.								
2. BPF	1) Display f. : 7.000MHz MODE : FM PRE AMP : ON Spectrum analyzer setting Center f. : 7.100MHz Frequency span : 2MHz XdB/DIV : 2dB RBW : 30kHz VBW : 10kHz TG output : –20dBm	Tracking generator Spectrum analyzer	Rear panel TX-RX (RF)	ANT CN7	TX-RX (RF)	L20 L21 L22	Repeat adjustment 2 or 3 times until the level is maximized and the waveform becomes flat.	
	2) Display f. : 14.000MHz Spectrum analyzer setting Center f. : 14.000MHz Frequency span : 5MHz					L29 L30 L31	Repeat adjustment 2 or 3 times until the level is maximized and the waveform becomes flat. Note : If dip point appear, first turn TC2 (RF) and adjust to L29,30,31.	

ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
3. RF AMP	1) Display f. : 22.000MHz MODE : FM PRE AMP : ON Spectrum analyzer setting Center f. : 26.000MHz Frequency span : 20MHz XdB/DIV : 2dB RBW : 30kHz VBW : 10kHz TG output : –20dBm	Tracking generator Spectrum analyzer	Rear panel TX-RX (RF)	ANT CN7	TX-RX (RF)	L67 L68	Repeat adjustment 2 or 3 times until the level is maximized and within the range of waveform. Note : If dip point appear, first turn TC2 (RF) and adjust to L67,68.	
4. MCF (73MHz)	1) Display f. : 14.000MHz MODE : USB AGC : OFF Spectrum analyzer setting Center f. : 73.050MHz Frequency span : 70kHz ATT : 10dB XdB/DIV : 2dB RBW/VBW : 1kHz TG output : –20dBm	Tracking generator Spectrum analyzer	TX-RX (RF)	CN3 CN4	TX-RX (RF)	L45 L54 L50 L51 L111	Repeat adjustment 2 or 3 times until the level is maximized and the waveform becomes flat. 1) Turn L45 and L54 to adjust to the 73.05MHz peak. (Repeat twice) 2) Turn L50, L51, and L111 to make a symmetrical waveform. 3) Make the waveform flat using L45 and L54.	
5. Trap initialize setting **E,E2,E3**	1) Set the TC2 position as shown right.				TX-RX (RF)	TC2	Turn TC2 180° from the default position.	TC2  Face the concave part of the knob downwards.
6. IF AMP	1) Display f. : 14.100MHz MODE : USB AGC : FAST PRE AMP : ON AF output : 0.63V/8Ω SSG frequency : 14.101MHz SSG output : –113dBm	SSG AF V.M Oscilloscope DM. SP	Rear panel	ANT EXT.SP	TX-RX (RF)	L55 L56 L61 IC15's L1,L2	Repeat adjustment 2 or 3 times until the AF output is maximized.	
7. RX MIX balance	1) Display f. : 100kHz MODE : USB PRE AMP : ON SSG output : OFF					VR1	Noise MIN	
8. IF GAIN	1) Display f. : 14.100MHz MODE : USB AGC : FAST PRE AMP : ON SSG frequency : 14.101MHz SSG output : –105dBm				Front panel	AF VR	AF output : 0.63V	
	2) SSG output : –115dBm				TX-RX (RF)	IC15's VR1	AF output : 0.4V	±0.05V
	3) SSG output : –105dBm						Check	AF output : 0.63V±0.05V
9. Trap **E,E2,E3**	1) Display f. : 15.200MHz MODE : USB AGC : FAST PRE AMP : ON SSG frequency : 15.201MHz SSG output : –113dBm				TX-RX (RF)	TC2	AF output : MIN	There must be a dip point.
	2) Display f. : 11.700MHz SSG frequency : 11.701MHz					TC1		

ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
10. NB	1) Display f. : 14.100MHz MODE : USB AGC : FAST PRE AMP : ON SSG frequency : 14.101MHz SSG output : –103dBm	DC V.M SSG AF V.M Oscilloscope DM. SP	TX-RX (PLL) Rear panel	TP801 ANT EXT.SP	TX-RX (PLL)	L802 L803	Voltage MIN	
	2) [NB] key : ON/OFF	Noise G.		ANT			Adjust output of noise generator to S1 and S9, and check each.	Noise should disappear when NB is ON.
• Item 11 to 16 below are adjusted in the adjustment mode. To terminate the adjustment menu in the middle, save your settings with Menu No. 51.								
11. SSB SQL threshold	1) Menu No. : 02 (14.100MHz USB) SSG output : OFF	SSG AF V.M Oscilloscope DM. SP	Rear panel	ANT EXT.SP	Front panel	UP or DOWN key	1 push	
12. SSB S-meter S1	1) Menu No. : 03 (14.100MHz USB) SSG frequency : 14.101MHz SSG output : –107dBm							–113~–101dBm
S9	2) Menu No. : 04 (14.100MHz USB) SSG output : –81dBm							–87~–75dBm
Full scale	3) Menu No. : 05 (14.100MHz USB) SSG output : –21dBm							
13. FM SQL threshold	1) Menu No. : 06 (29.100MHz FM) SSG frequency : 29.100MHz SSG output : OFF							
14. FM S-meter S1	1) Menu No. : 07 (29.100MHz FM) SSG frequency : 29.100MHz SSG output : –117dBm MOD : 1kHz/3kHz							
Full scale	2) Nenu No. : 08 (29.100MHz FM) SSG output : –95dBm MOD : 1kHz/3kHz							–101~–89dBm
15. SQL VR center voltage	1) Menu No. : 16 (14.100MHz USB) SSG frequency : Anything SSG output : OFF						SQL VR : Center 1 push	
16. IF SHIFT VR center voltage	1) Menu No. : 17 (14.100MHz USB) SSG frequency : Anything SSG output : OFF						IF SHIFT VR : Center 1 push	

• Writing data : After items 11 to 16 have been adjusted;
1) Menu No. : 51
2) [UP] or [DOWN] key : Push once time Display "rEAdy" → "run" → "good" (If "nG" is displayed, enter data again.)
3) [CLR] key : Push once time.

ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
17. S/N	1) Display f. : Below AF VR : 0.63V/8Ω SSG frequency : Below However, USB : +1kHz LSB : −1kHz	SSG AF V.M Oscilloscope Distortion meter DM. SP	Rear panel	ANT EXT.SP				
	Frequency / MODE / SSG output / SSG MOD / DEV							
	550kHz AM	−77dBm	1kHz	60%			S/N measurement	10dB or more
	1.550MHz AM	−77dBm	1kHz	60%				
	1.800MHz LSB	−119dBm	OFF	OFF			MAX sensitivity measurement	0.63V/8Ω or more
	3.550MHz LSB	−119dBm	OFF	OFF				
	7.100MHz LSB	−119dBm	OFF	OFF				
	10.100MHz USB	−119dBm	OFF	OFF				
	14.100MHz USB	−119dBm	OFF	OFF		←	PRE AMP : OFF	Sensitivity down 5~15dB.
	21.100MHz USB	−119dBm	OFF	OFF				
	24.800MHz USB	−123dBm	OFF	OFF				
	28.800MHz USB	−123dBm	OFF	OFF				
	29.800MHz FM	−119dBm	1kHz	3kHz		←	SINAD seisitivity	12dB SINAD or more measurement
18. ATT	1) Display f. : 14.300MHz MODE : USB AGC : FAST PRE AMP : ON SSG frequency : 14.301MHz SSG output : −113dBm	SSG AF V.M Oscilloscope DM. SP	Rear panel	ANT EXT.SP	Front panel	ATT key	1) Adjust the AF output to 1V. 2) 1 push the [ATT] key. 3) SSG output : −93dBm	AF output down. AF output : 1V±3dB
19. VS-3 (Option)	1) Connect the VS-3 to CN16 on the TX-RX unit. AF VR : MIN [PF] key : 1 push	VS-3	TX-RX (RF)	CN16	Front panel	PF key	1 push	The displayed frequency can be heard vocally.
20. DRU-3A (Option)	1) Connect the DRU-3A to CN17 on the TX-RX unit. Connect a microphone to the MIC jack. [REC] key : 1 push	DRU-3A Microphone	TX-RX (RF) Front panel	CN17 MIC	Front panel	CH1 key	Hold down [CH1], and talk into the microphone.	Can be recorded for about 15 seconds.
							Press the [CH1] key again.	The recorded voice must be played back.

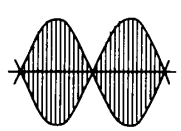
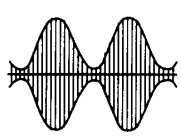
Transmitter Section

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. ALC voltage	1) Menu No. : 01 (14.200MHz USB) Transmit	DC V.M	TX-RX (RF)	TP1	Front panel	UP or DOWN key	2.7V	±0.03V
• Writing data : After item 1 has been adjusted; 1) Menu No. : 51 2) [UP] or [DOWN] key : Push once time 3) [CLR] key : Push once time. 4) [SPLIT] key : Push once time.							Display "rEAdy" → "run" → "good" (If "nG" is displayed, enter data again.)	
2. Final idling current	1) Display f. : 14.200MHz MODE : USB Final unit VR1, 2 : MIN Transmit	DC. A	Rear panel	DC IN	Final		(First adjust VR1 and VR2 for minimum)=A	
						VR1	A+250mA	
						VR2	(A+250mA)+250mA	

ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
3. TX AMP	1) Display f. : 14.200MHz MODE : CW Connect to CN10 a 50Ω dummy load. Transmit	50Ω dummy Oscilloscope	TX-RX (RF)	CN10	TX-RX (RF)	L69,70 L71,72 L74,75 L76 VR3	Repeat 2 or 3 times for DRV output MAX	Reference value 2.5Vp-p or more
4. NULL	1) Display f. : 3.500MHz MODE : USB Transmit	Power meter DC V.M (Oscilloscope)	Rear panel Final	ANT CN12	Final	TC1	MIN	Reference value 50mV or less
5. Power frequency characteristic	1) Initialize	Power meter	Rear panel	ANT	Final	VR3	Full counterclock-wide (VR MIN)	
	2) Menu No. : 18 (14.200MHz USB) Transmit				Front panel	UP or DOWN key	100W	±5.0W
	3) Writing data with Menu No. 51. [CLR] key : Push once time (Adjustment mode terminated)							
	4) Display f. : 29.699MHz MODE : CW Transmit				Final	VR3	Power MAX	95W or more
6. 14MHz TGC	1) Menu No. 27 (14.200MHz USB) Transmit	Power meter	Rear panel	ANT	Front panel	UP or DOWN key	Setting data : 050	
					TX-RX (RF)	VR9	100W	±3.0W
	2) Writing data with Menu No. 51.				Front panel	UP or DOWN key	1 push	
• Item 7 to 17 below are adjusted in the adjustment mode. To terminate the adjustment menu in the middle, save your settings with Menu No. 51.								
7. Power 100W	1) Menu No. : 18 (14.200MHz USB) Transmit	Power meter	Rear panel	ANT	Front panel	UP or DOWN key	100W	±5.0W
50W	2) Menu No. : 19 (14.200MHz USB) Transmit						50W	±2.5W
25W	3) Menu No. : 20 (14.200MHz USB) Transmit						25W	±1.0W
10W	4) Menu No. : 21 (14.200MHz USB) Transmit						10W	±1.0W
5W	5) Menu No. : 22 (14.200MHz USB) Transmit						5W	±1.0W
8. TGC 1.9MHz	1) Menu No. : 23 (1.840MHz USB) Transmit						100W **K,M2,E,E3** 10W **E2**	±5W **K,M2,E,E3** ±1.0W **E2**
3.5MHz	2) Menu No. : 24 (3.500MHz USB) Transmit						100W	±5W Note : Skip 14MHz
7.0MHz	3) Menu No. : 25 (7.00MHz USB) Transmit							
10MHz	4) Menu No. : 26 (10.100MHz USB) Transmit							

ADJUSTMENT

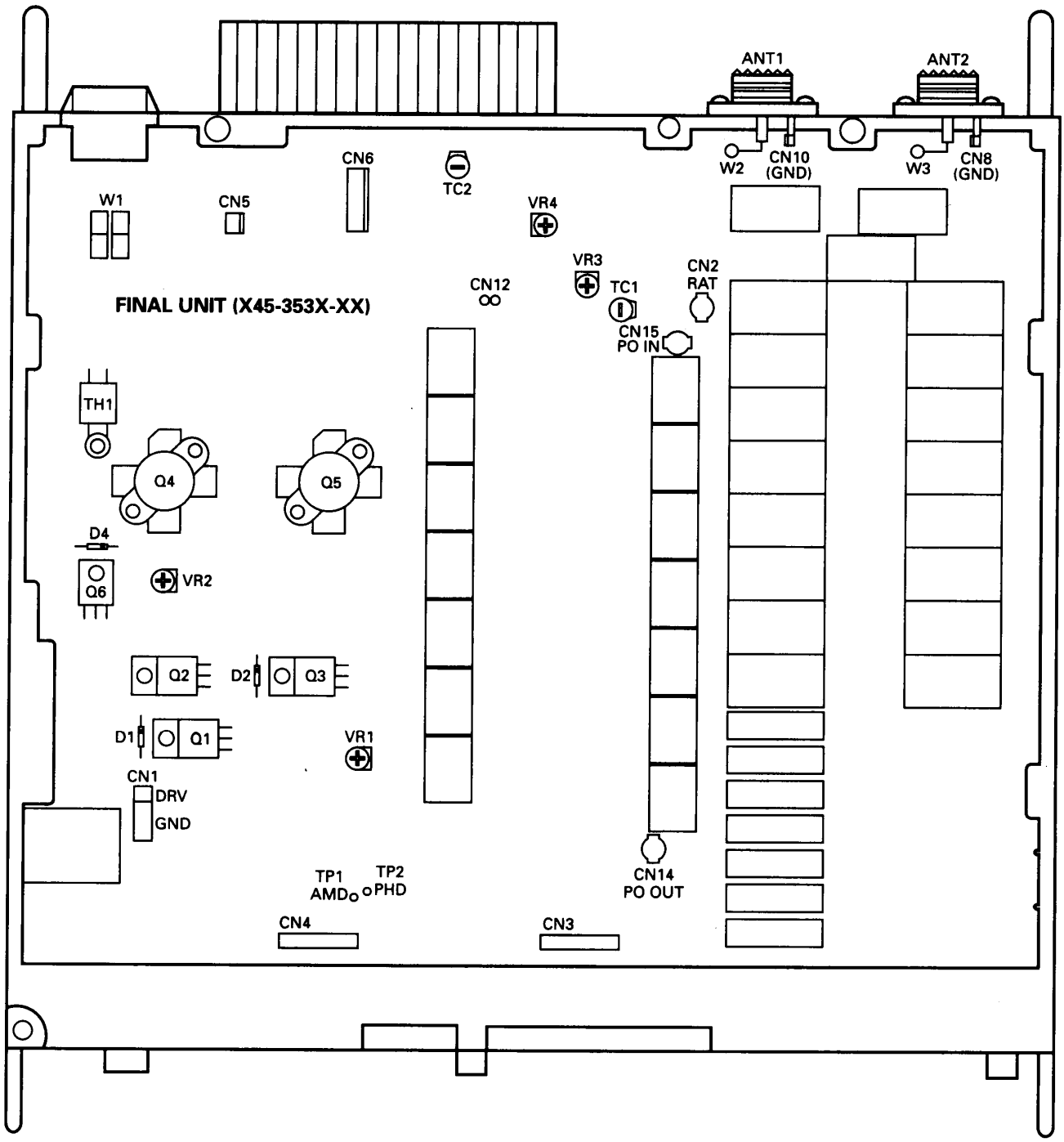
Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
8. TGC 18MHz	5) Menu No. : 28 (18.068MHz USB) Transmit	Power meter	Rear panel	ANT	Front panel	UP or DOWN key	100W	±5W
21MHz	6) Menu No. : 29 (21.000MHz USB) Transmit							
25MHz	7) Menu No. : 30 (24.890MHz USB) Transmit							
28MHz	8) Menu No. : 31 (29.690MHz USB) Transmit							
9. Power TGC 50W	1) Menu No. : 33 (14.200MHz USB) Transmit						50W	±2.5W
25W	2) Menu No. : 34 (14.200MHz USB) Transmit						25W	±1.0W
10W	3) Menu No. : 35 (14.200MHz USB) Transmit						10W	±1.0W
5W	4) Menu No. : 36 (14.200MHz USB) Transmit						5W	±1.0W
10. ALC meter Start point	1) Menu No. : 37 (14.200MHz USB) Transmit						1 push	
Zone MAX	2) Menu No. : 38 (14.200MHz USB) Transmit							
11. CW carrier level	1) Menu No. : 39 (14.200MHz CW) Transmit						ALC meter zone MAX	
12. AM carrier level	1) Menu No. : 40 (14.200MHz AM) Transmit							
13. FM MAX deviation	1) Menu No. : 41 (29.690MHz FM) Transmit	Power meter Linear detector					±4.5kHz According to the larger +, −.	±0.1kHz
14. SSB carrier point USB	1) Menu No. : 42 (14.200MHz USB) Transmit	Power meter Oscilloscope					Waveform cross	OK  NG 
LSB	2) Menu No. : 43 (14.200Mhz LSB) Transmit							

ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
15. SSB carrier suppression USB LSB	1) Menu No. : 44 (14.200MHz USB) Transmit 2) Menu No. : 45 (14.200MHz LSB) Transmit	Power meter Oscilloscope	Rear panel	ANT	TX-RX (RF)	VR4 VR5	Carrier level MIN	50dB or less (Repeat check both LSB and USB.)
16. SWR protection	1) Menu No. : 46 (14.200MHz CW) Transmit	150Ω dummy Through type power meter			Front panel	UP or DOWN key	40W	±1.0W
17. SWR meter (SWR : 3.0)	1) Menu No. : 47 (1.840MHz CW) Transmit	150Ω dummy					1 push	
• Writing data : After items 7 to 17 have been adjusted; 1) Menu No. : 51 2) [UP] or [DOWN] key : Push once time Display "rEAdy" → "run" → "good" (If "nG" is displayed, enter data again.) 3) [CLR] key : Push once time.								
18. Spurious	1) Display f. : 24.900MHz MODE : CW Transmit	Power meter Spectrum analyzer	Rear panel	ANT	TX-RX (RF)	VR2	±1.650MHz Spurious level MIN	50dB or less
19. AT amplitude	1) Display f. : 29.690MHz MODE : CW Transmit Power : 10W	Power meter Oscilloscope	Rear panel Final	ANT TP1	Final	VR4	Turn the VR to the point where the waveform on the oscilloscope changes from high to low. (Threshold point)	
20. AT phase	1) Display f. : 29.690MHz MODE : CW Transmit Power : 10W			TP2		TC2	Turn the VC to the point where the waveform on the oscilloscope changes from high to low.	
21. MIC sensitivity SSB	1) Display f. : 14.200MHz MODE : USB AG : 1kHz/5mV Transmit	Power meter AG VTVM	Rear panel Front panel	ANT MIC			Check	90W or more
FM	1) Display f. : 29.000MHz MODE : FM AG : 1kHz/3mV **E,E2,E3** 1kHz/5mV **K,M2** Transmit	Power meter Linear detector AG VTVM Oscilloscope	Rear panel Front panel	ANT MIC				DEV : ±2.5~3.75kHz **K,M2** DEV : ±2.25~3.75kHz **E,E2,E3**
	2) AG : 1kHz/30mV **E,E2,E3** 1kHz/50mV **K,M2** Transmit							DEV : ±3.8~5.0kHz
22. Transmit frequency characteristic	1) Display f. : 14.200MHz MODE : USB/LSB AG : 1kHz/5mV 400Hz/5mV 2.6kHz/5mV Transmit	Power meter AG AF V.M	Rear panel Front panel	ANT MIC			Set AG to 1.0kHz and turn the [MULTI/CH] knob to set to 50W. Change the AG frequency and measure the difference between the power levels at 1.0kHz and at another frequency. Take a measurement for each USB and LSB.	Within 6dB

ADJUSTMENT

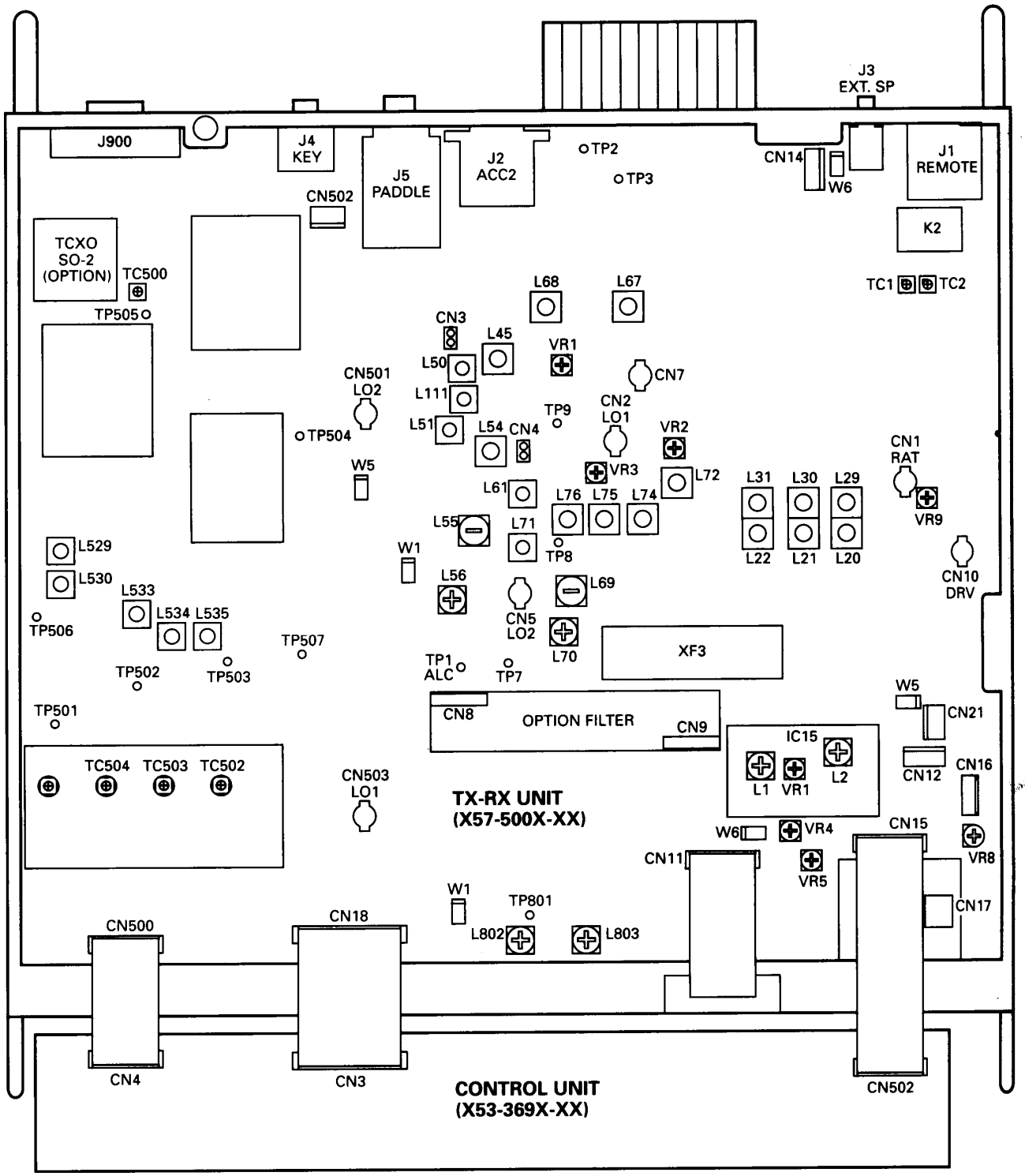
Adjustment Points (Top)



VR1,2 : Final idling current
VR3 : Power frequency characteristic
VR4 : AT amplitude
TC1 : NULL
TC2 : AT phase

ADJUSTMENT

Adjustment Points (Bottom)

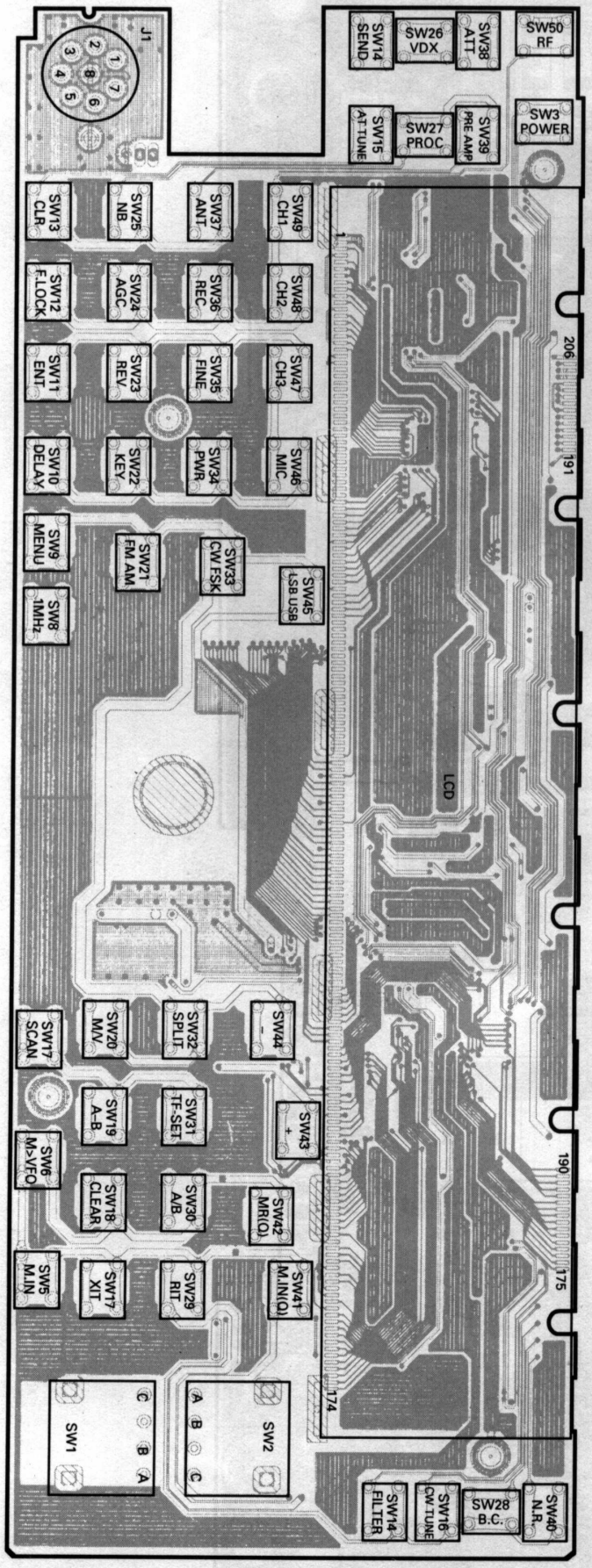


TC1,2 : Trap **E,E2,E3**
TC2 : Trap initialize setting **E,E2,E3**
TC500 : Reference oscillation
TC502 : Lock voltage (VCO1A)
TC503 : Lock voltage (VCO1B)
TC504 : Lock voltage (VCO1C)

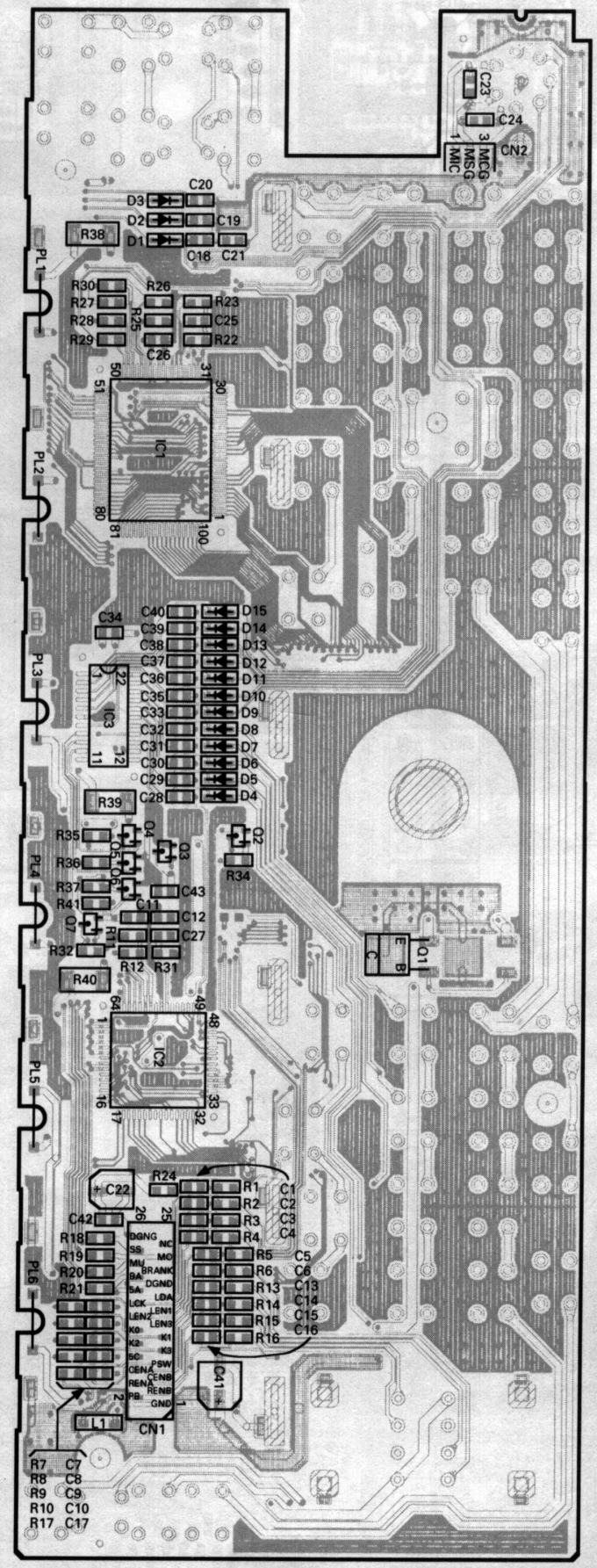
L20~22,29~31 : BPF
L45,50,51,54,111 : MCF (73MHz)
L55,56,61 : IF AMP
L67,68 : RF AMP
L69~72,74~76 : TX AMP
L529,530 : 60MHz
L533~535 : 65MHz BPF
L802,803 : NB

VR1 : RX MIX balance
VR2 : Spurious
VR3 : TX AMP
VR4 : SSB carrier suppression (USB)
VR5 : SSB carrier suppression (LSB)
VR9 : 14MHz TGC
IC15's VR1 : IF GAIN
IC15's L1,2 : IF AMP
*VR8 : VS-3 voice output level

LCD ASSY (B38-0765-05)
Component side view

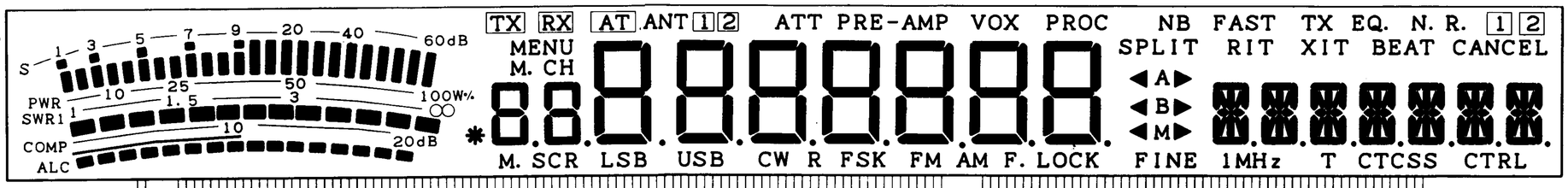


LCD ASSY (B38-0765-05)
Foil side view



LCD ASSY (B38-0765-05)

LCD1
• (B38-0779-08)



IC1 :MSM5265GS-BK
IC2 :NJU6432BFE1
IC3 :NJU3715G

Q1 :2SA1641(S, T)
Q2 :2SC2712(Y)
Q3 :2SA1162(Y)
Q4-6 :DTC123EK
Q7 :DTC144EK

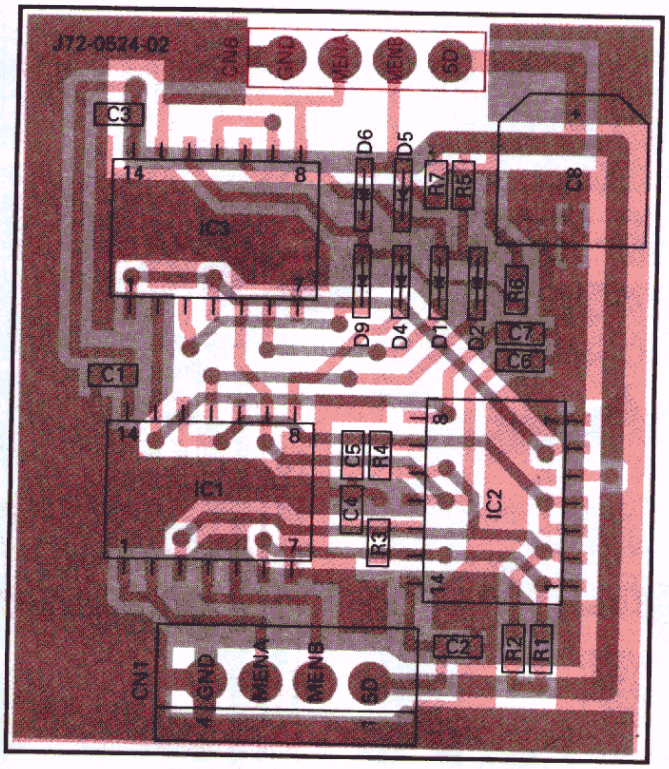
D1-15 :1SS355

• LCD ASSY
(B38-0765-05)

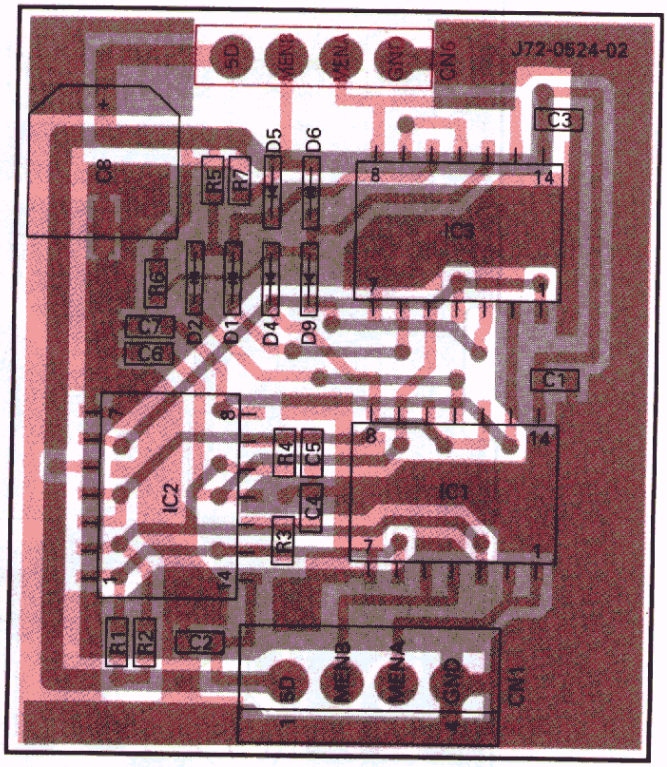
CN3. CN4. CN5

ENCODER (X59-4110-00)

Component side view



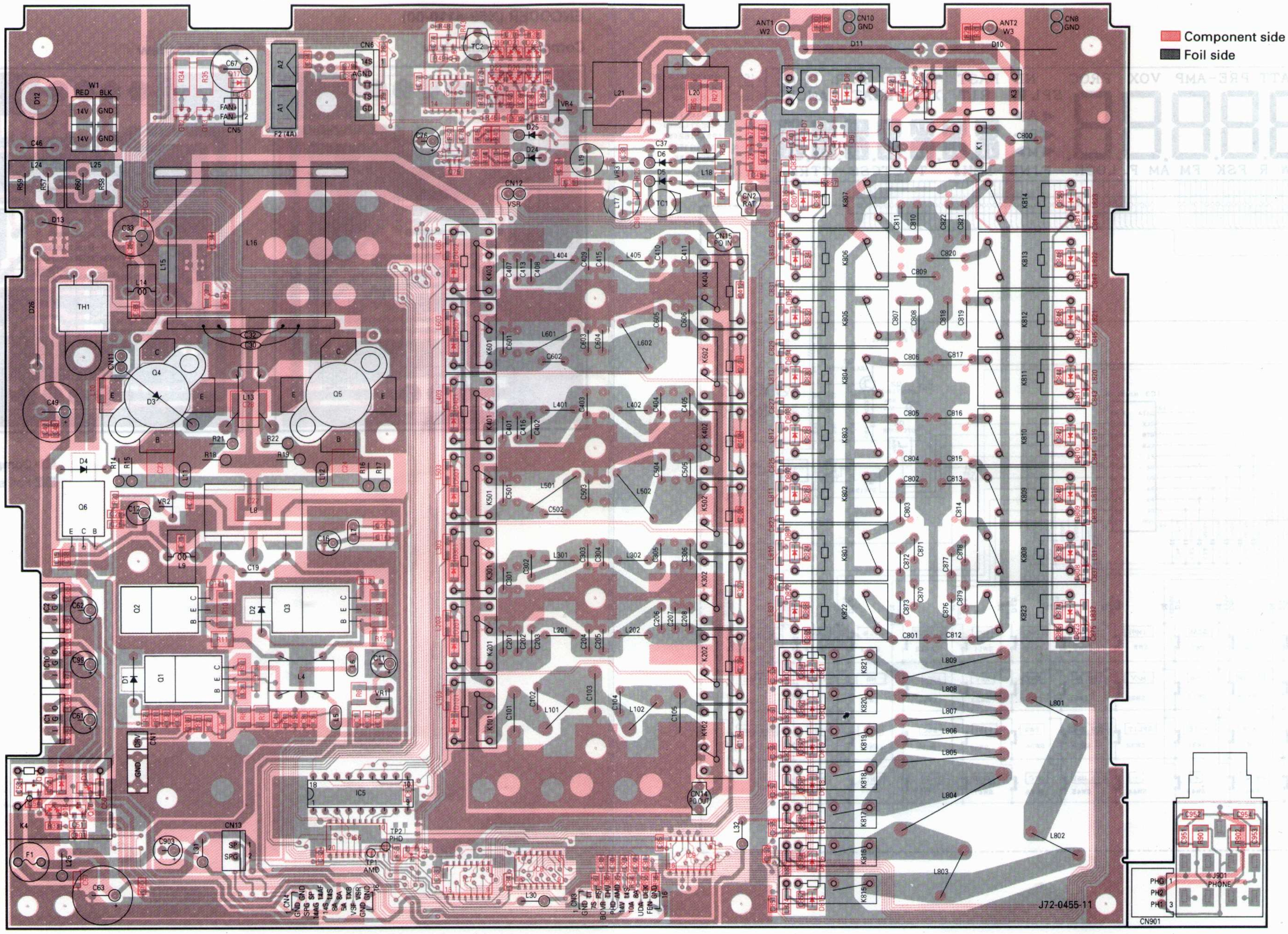
Foil side view



Component side
Foil side

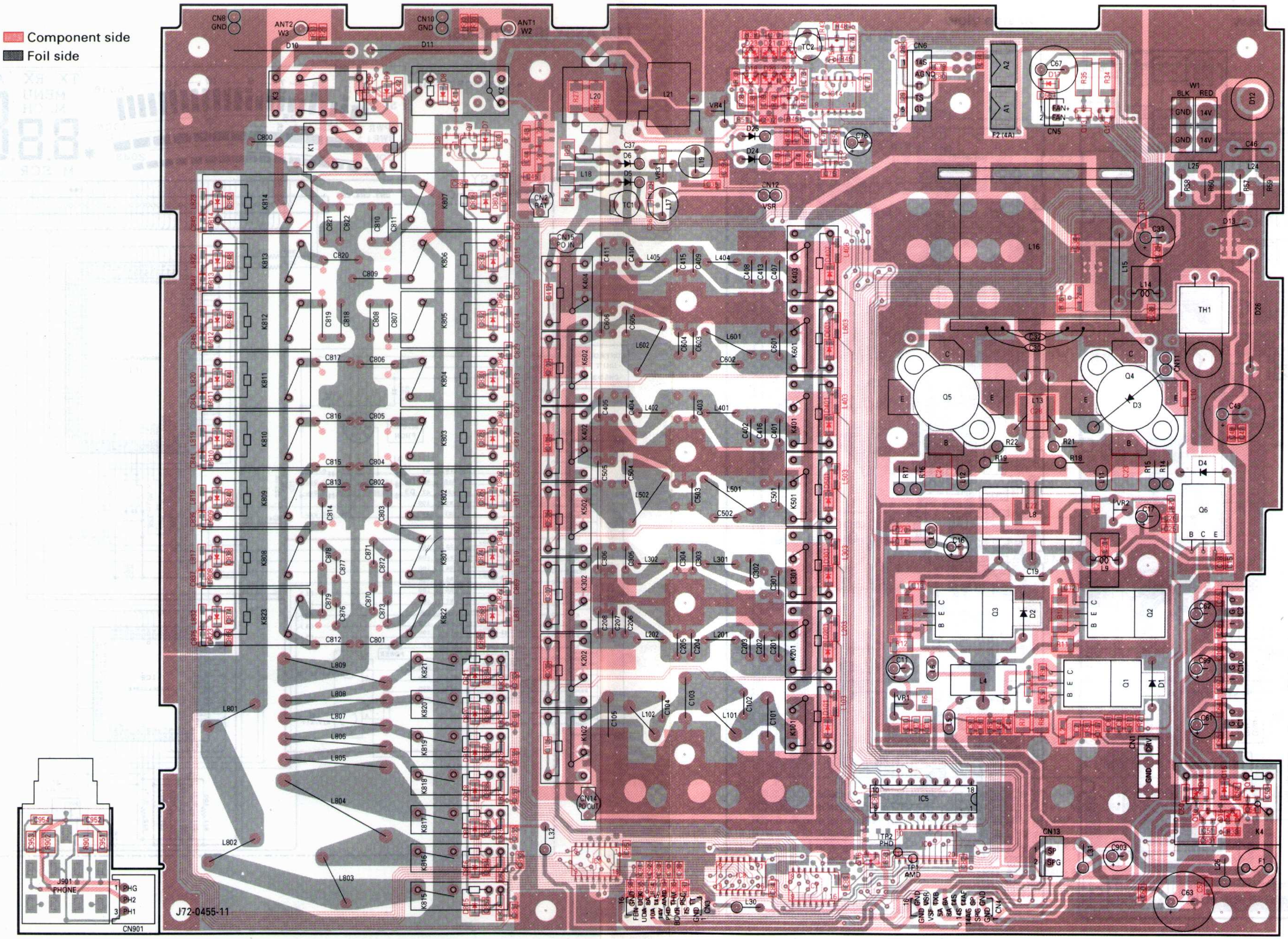
TS-570DG PC BOARD VIEWS

FINAL UNIT ((X45-353X-XX) Component side view 0-10 : K,M2 2-71 : E,E2,E3



FINAL UNIT (X45-353X-XX) Foil side view 0-10 : K,M2 2-71 : E,E2,E3

Component side
Foil side


CN8 GND
ANT2 W3
CN10 GND
ANT1 W2
D10
D11
TC2
CN6
14S
AGND
TS
GD
A2
A1
F2 (4A)
C67
D17
R35
R34
FAN+
FAN-
CN5
W1
BLK
RED
GND
14V
GND
14V
D12
C46
L25
L24
R58
R60
R57
R59
D13
C33
L16
L15
L14
TH1
D26
C32
C30
CN11
Q4
D3
Q5
C49
R22
R21
R19
R18
D4
R17
R16
R15
R14
Q6
VR2
C17
C16
L8
C19
L9
Q3
D2
Q2
C62
C99
C100
C61
L4
Q1
D1
VR1
CN1
GND
IC5
CN13
SP
SPG
C903
F1
K4
C63
L26
L32
L30
TP2 PHD
TP1 AMD
J901 PHONE
PHG
PH2
PH1
CN901
J72-0455-11
L801
L802
L803
L804
L805
L806
L807
L808
L809
C954
C952
C953
C902
C901
C951
K814
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L101
C411
C410
C415
C409
C408
C413
C407
C606
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D401
D303
D301
D203
D201
D103
D101
CN2 RAT
CN12 VSR
CN15 PO IN
CN14 PO OUT
VR4
VR3
TC1
L17
L18
L19
L20
L21
D25
D24
D6
D5
C37
R27
R25
R44
R45
R46
R47
R48
R49
R50
R51
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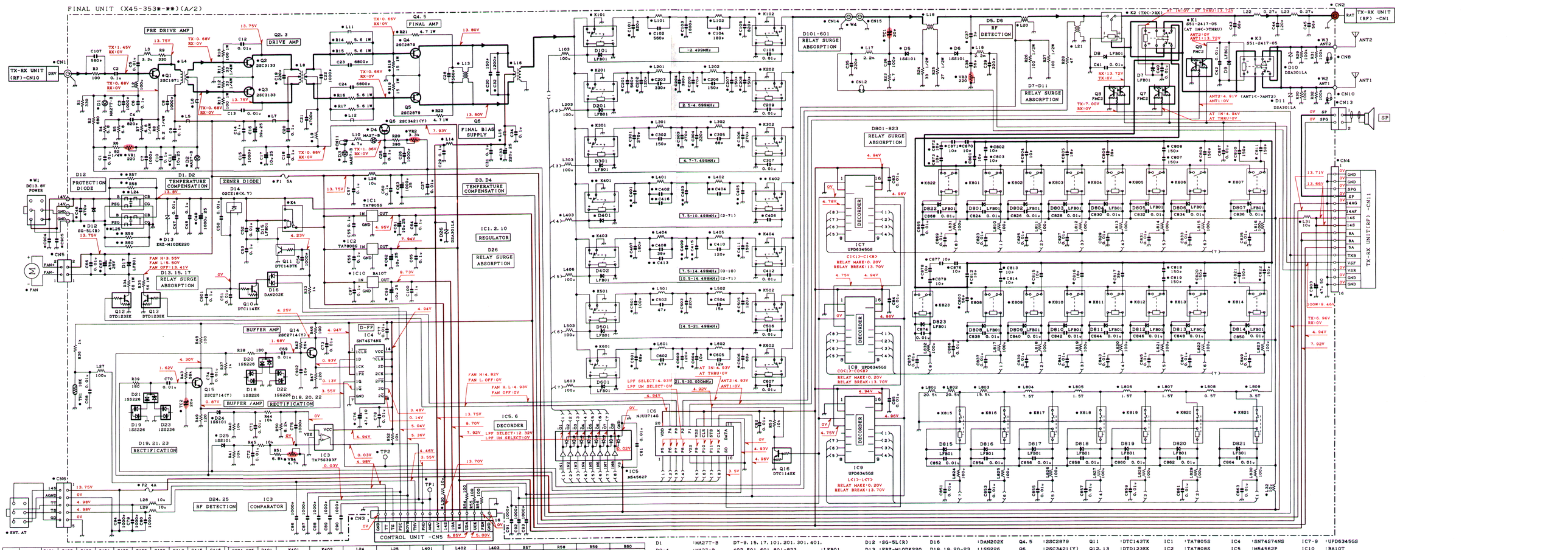
C115

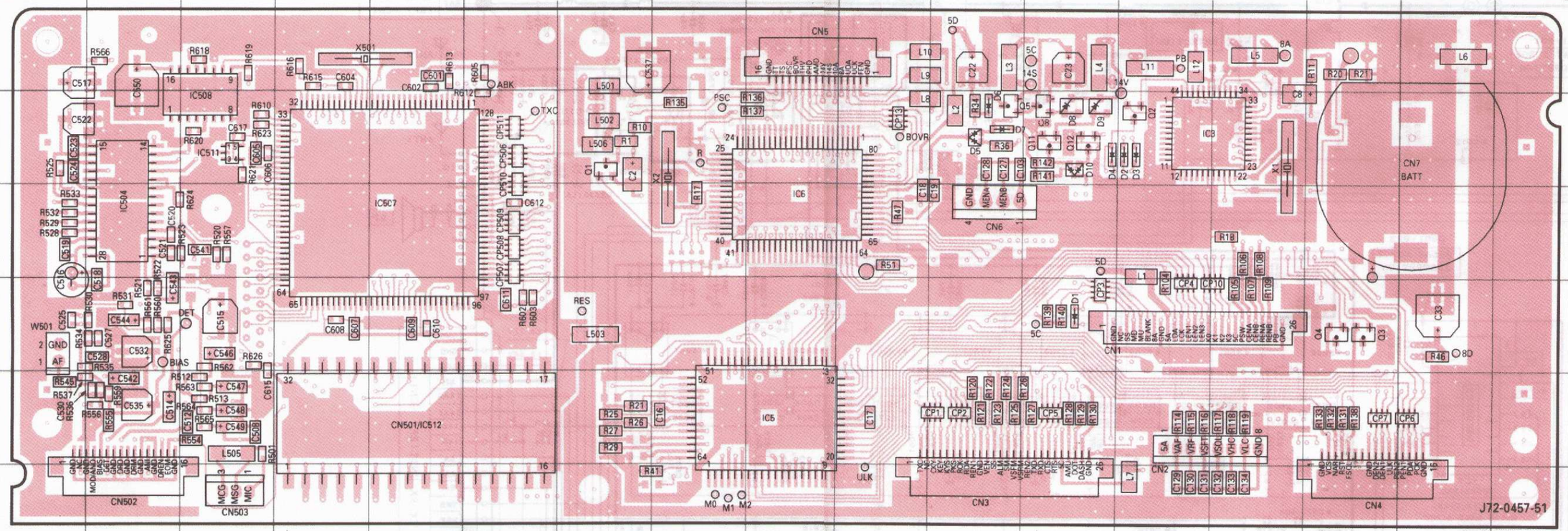


		C401	C402	C403	C404	C405	C406	C409	C413	C415	C416
0-10	K,M2	NO	NO	NO	NO	NO	NO	180P	5P	120P	NO
2-71	E,E2,E3	180P	47P	270P	150P	150P	0.01U	330P	NO	NO	5P

	C904.905	D401	K401	K402	L24	L25	L401	L402	L403	R57	R58	R59	R60
	NO	NO	NO	NO	NO	NO	NO	NO	NO	892-2569-05	892-2569-05	892-2569-05	892-2569-05
	470P	LFB01	854-1420-05	854-1420-05	L79-0558-05	L79-0558-05	L39-1221-05	L39-1221-05	L40-1015-48	NO	NO	NO	NO

TS-570DG PC BOARD VIEWS

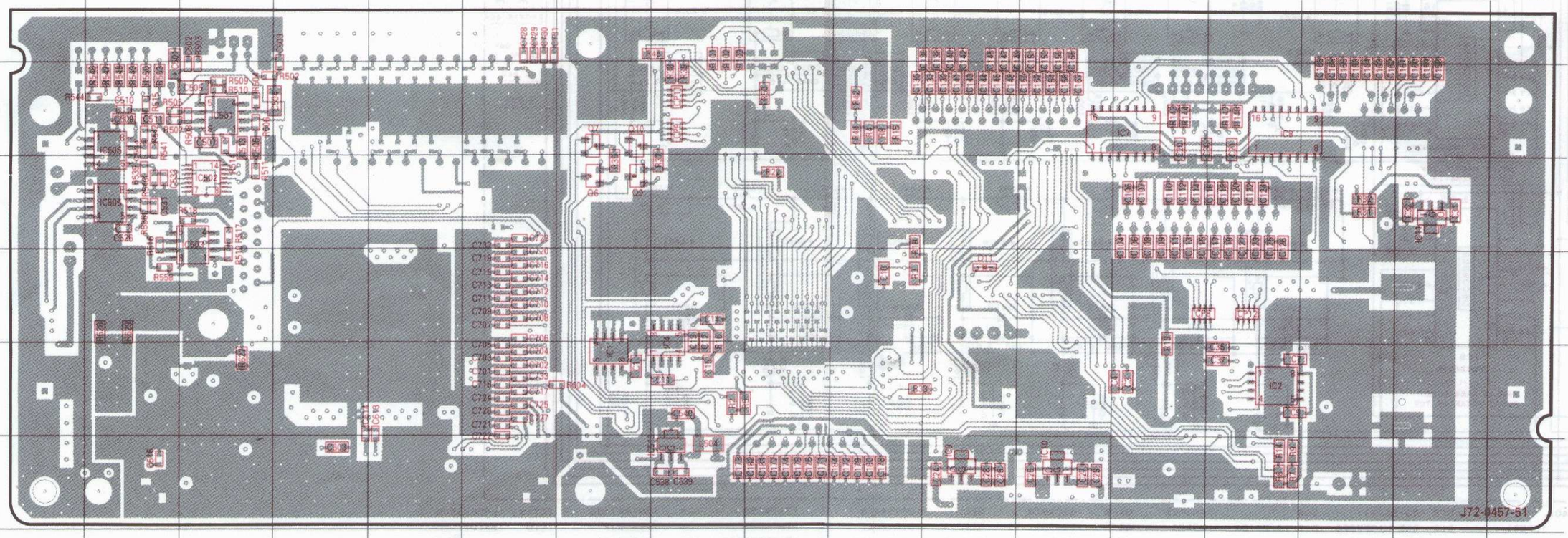
CONTROL UNIT (X53-369X-XX) Component side view 0-12 : K 0-22 : M2 2-74 : E 2-75 : E2 2-76 : E3



Ref. No.	Address	Ref. No.	Address
IC3	3M	Q8	3L
IC5	6I	Q11	3L
IC6	4I	Q12	3L
IC504	4B	D1	5L
IC507	4E	D2	3M
IC508	3C	D3	3M
IC511	3C	D4	3L
IC512	6E	D5	3K
Q1	3G	D6	3K
Q2	3M	D7	3K
Q3	5O	D8	3L
Q4	5O	D9	3L
Q5	3K	D10	3L

Component side
Pattern 1
Pattern 2
Pattern 3
Pattern 4
Foil side

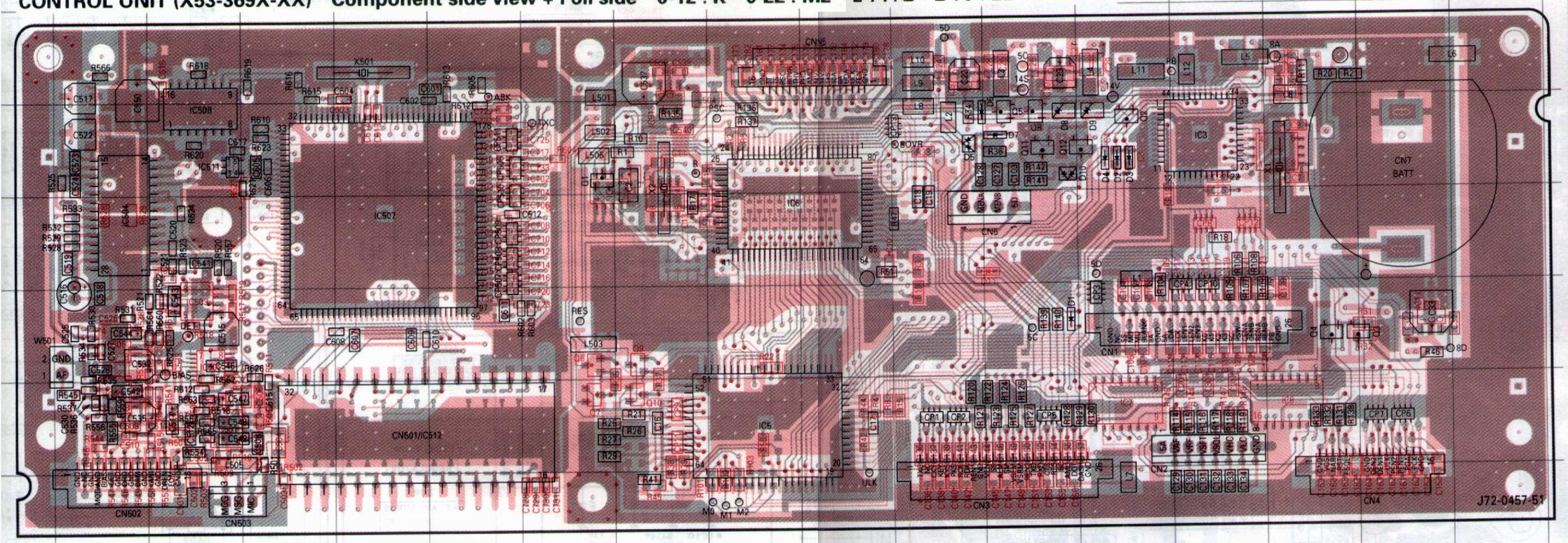
CONTROL UNIT (X53-369X-XX) Foil side view 0-12 : K 0-22 : M2 2-74 : E 2-75 : E2 2-76 : E3



Ref. No.	Address	Ref. No.	Address
IC1	12G	IC503	10C
IC2	12N	IC505	10B
IC4	12H	IC506	9B
IC7	9M	IC513	13H
IC8	9N	Q6	10G
IC9	13K	Q7	9G
IC10	13L	Q9	10G
IC11	10P	Q10	9G
IC501	9C	D11	11K
IC502	10C		

Component side
Pattern 1
Pattern 2
Pattern 3
Pattern 4
Foil side

CONTROL UNIT (X53-369X-XX) Component side view + Foil side 0-12 : K 0-22 : M2 2-74 : E 2-75 : E2 2-76 : E3



Ref. No.	Address	Ref. No.	Address
IC1	3Z	Q2	3AF
IC2	3AH	Q3	5AI
IC3	3AG	Q4	5AH
IC4	4AA	Q5	3AE
IC5	6AB	Q6	5Z
IC6	4AB	Q7	6Z
IC7	6AF	Q8	3AE
IC8	6AH	Q9	5AA
IC9	2AD	Q10	6AA
IC10	2AE	Q11	3AE
IC11	5AI	Q12	3AF
IC501	6V	D1	5AE
IC502	5V	D2	3AF
IC503	5V	D3	3AF
IC504	4U	D4	3AF
IC505	5U	D5	3AD
IC506	6U	D6	3AD
IC507	4X	D7	3AE
IC508	3V	D8	3AE
IC511	3V	D9	3AF
IC512	6X	D10	3AE
IC513	3AA	D11	4AE
Q1	3Z		

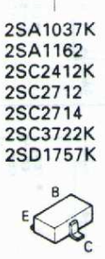
Component side

Pattern 1
Pattern 2
Pattern 3
Pattern 4

Foil side

● Connect 1 and 4

DTA114EK 2SA1037K
DTA124EK 2SA1162
DTA143EK 2SC2412K
DTC114EK 2SC2712
DTC123EK 2SC2714
DTC124EK 2SC3722K
DTC143EK 2SD1757K
DTC143TK
DTC144EK
DTD123EK



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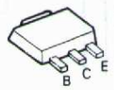
2SC2954
2SC3357
2SD1624



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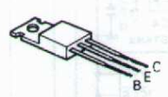
2SA1641

2SC3133



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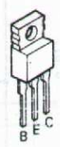
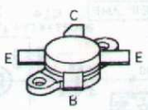
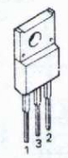


2SC2879



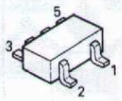
2SK1875
2SK520

TA7805S
TA7808S

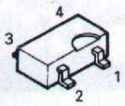


NJM78L05UA
NJM78L06UA
NJM78L08UA

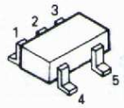
FMA5
FMC2
FMG3A



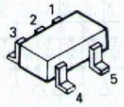
3SK131
3SK184
RU201



TA75S393F



BU4S66
TC7S04F
TC7S08F



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M62003FP
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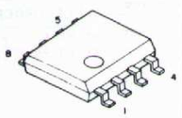
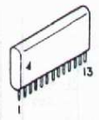
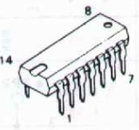
NJM2904M
UPC1037GR
UPC1686G



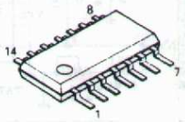
LA4446



SN76514N



BU4066BCFV
NJM2902M
SN74S74NS



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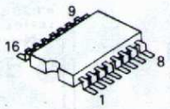
TC9174F



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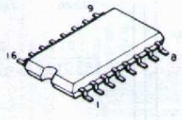

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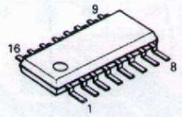
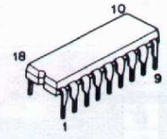
UPD6345GS



M54562P



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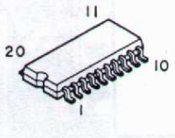

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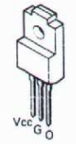

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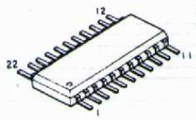

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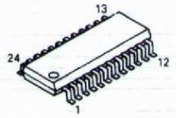

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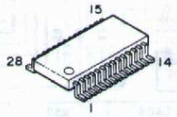

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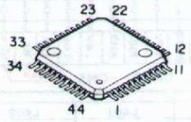

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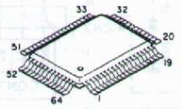

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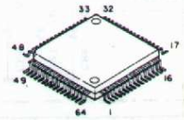

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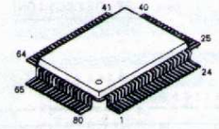

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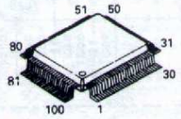

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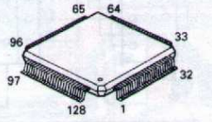

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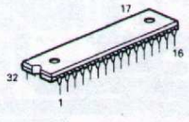

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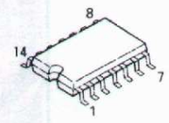
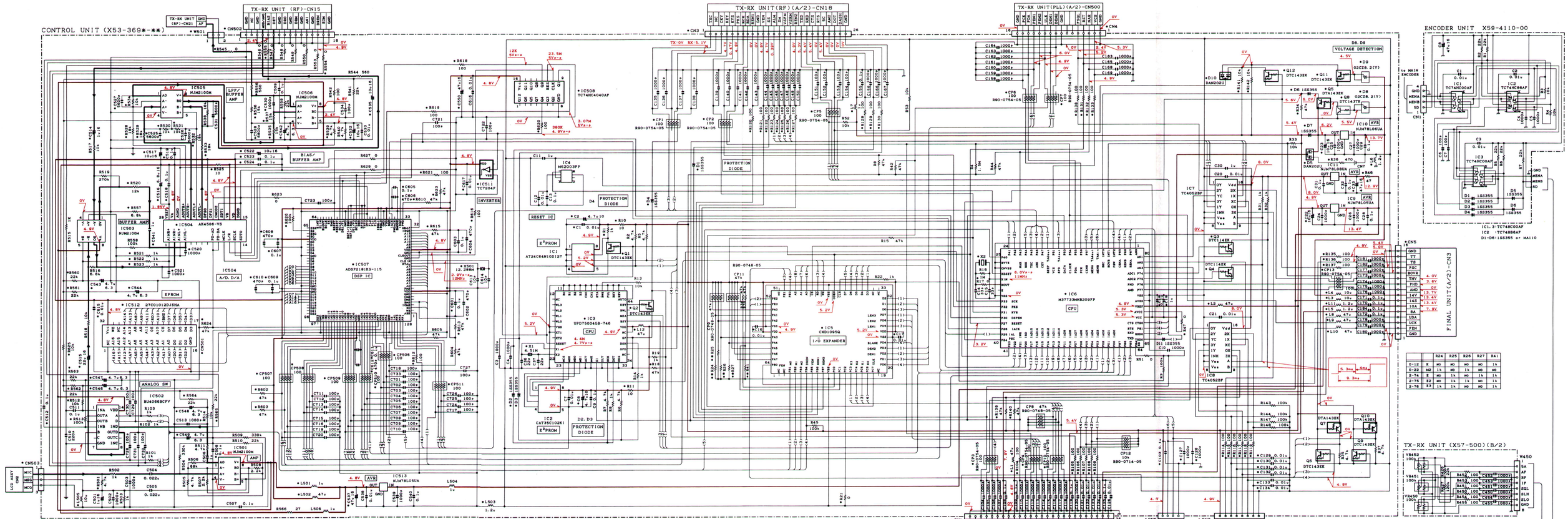
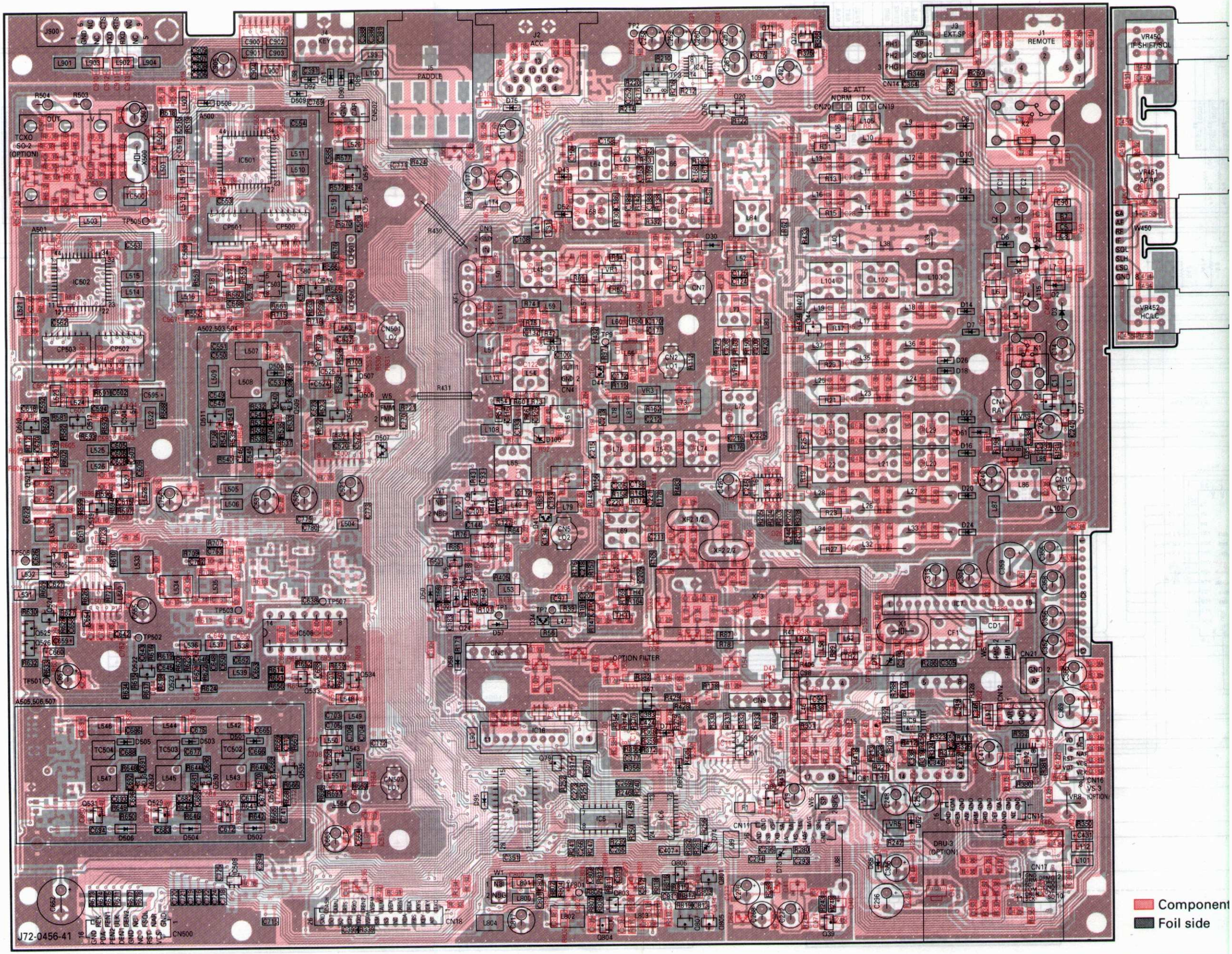


Note : Components marked with a dot (-) are parts of pattern 1.

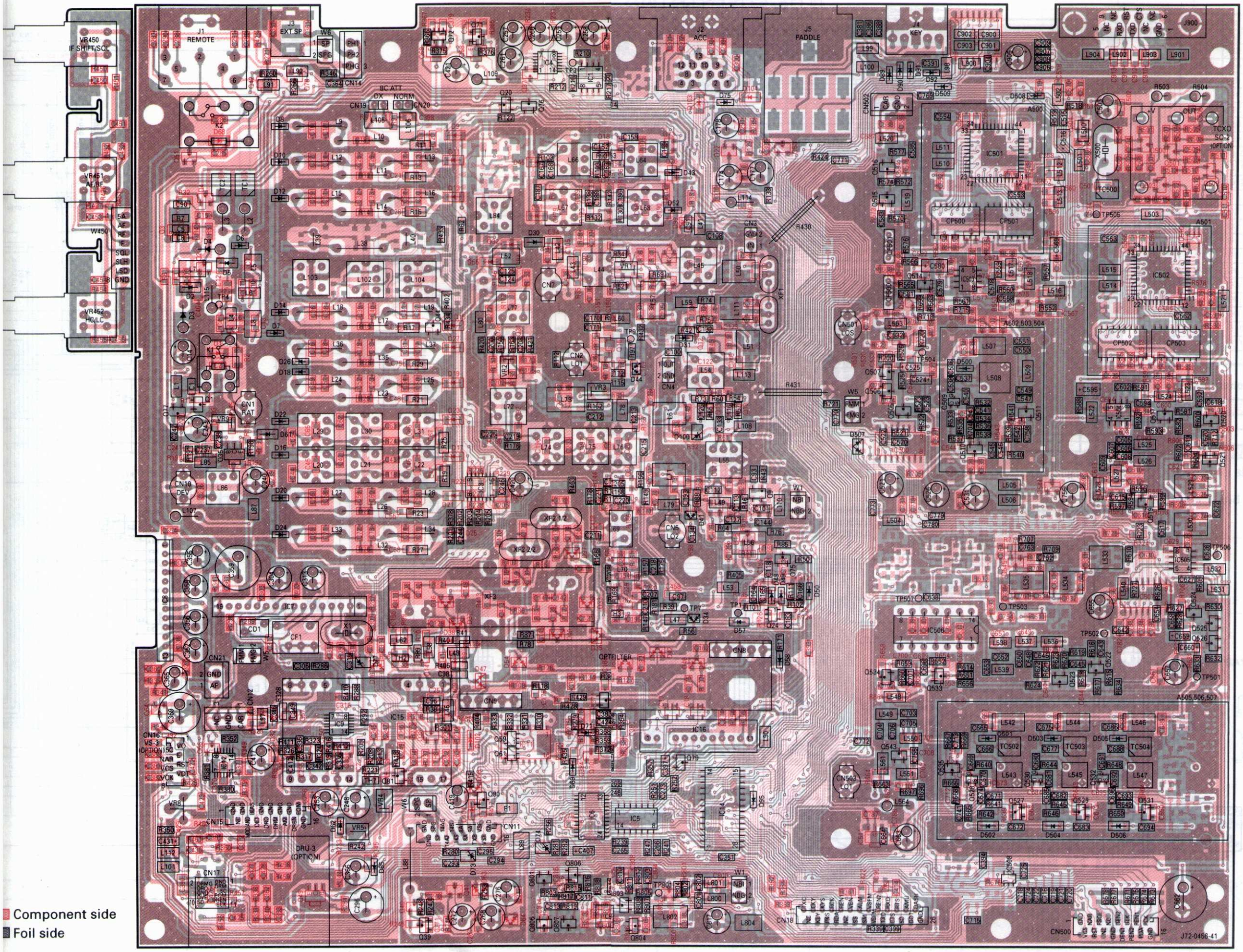


TS-570DG PC BOARD VIEWS

TX-RX UNIT (X57-500X-XX) Component side view 0-10 : K,M2 2-71 : E,E2,E3

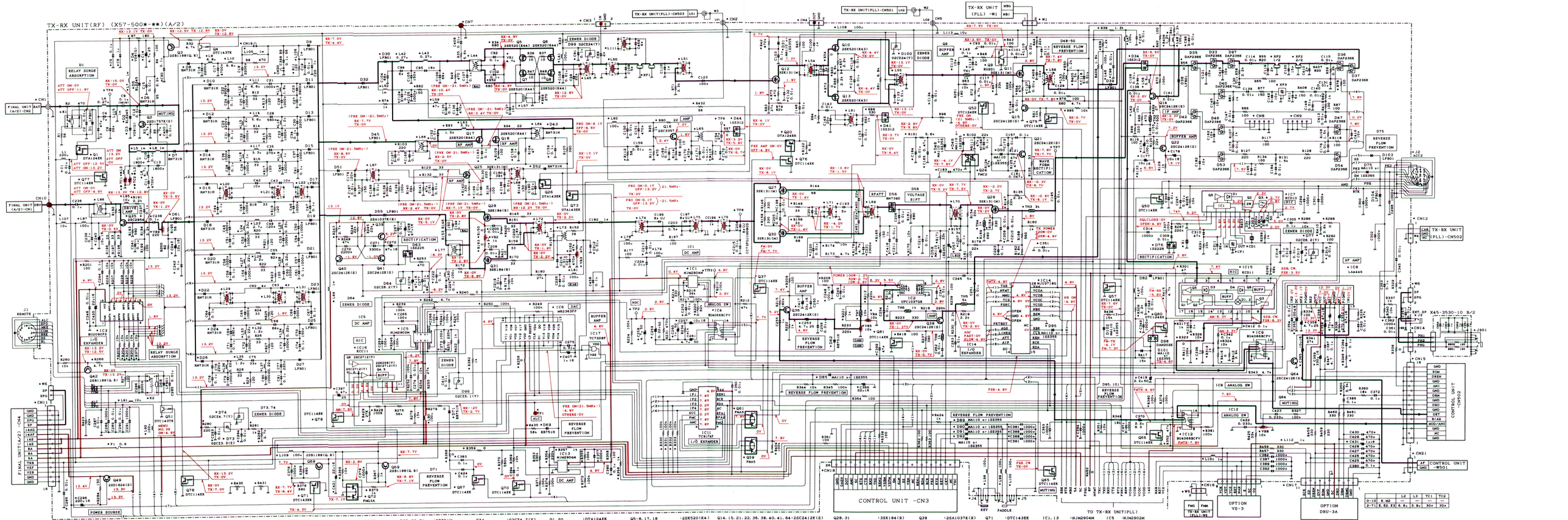


TX-RX UNIT (X57-500X-XX) Foil side view 0-10 : K,M2 2-7': E,E2,E3



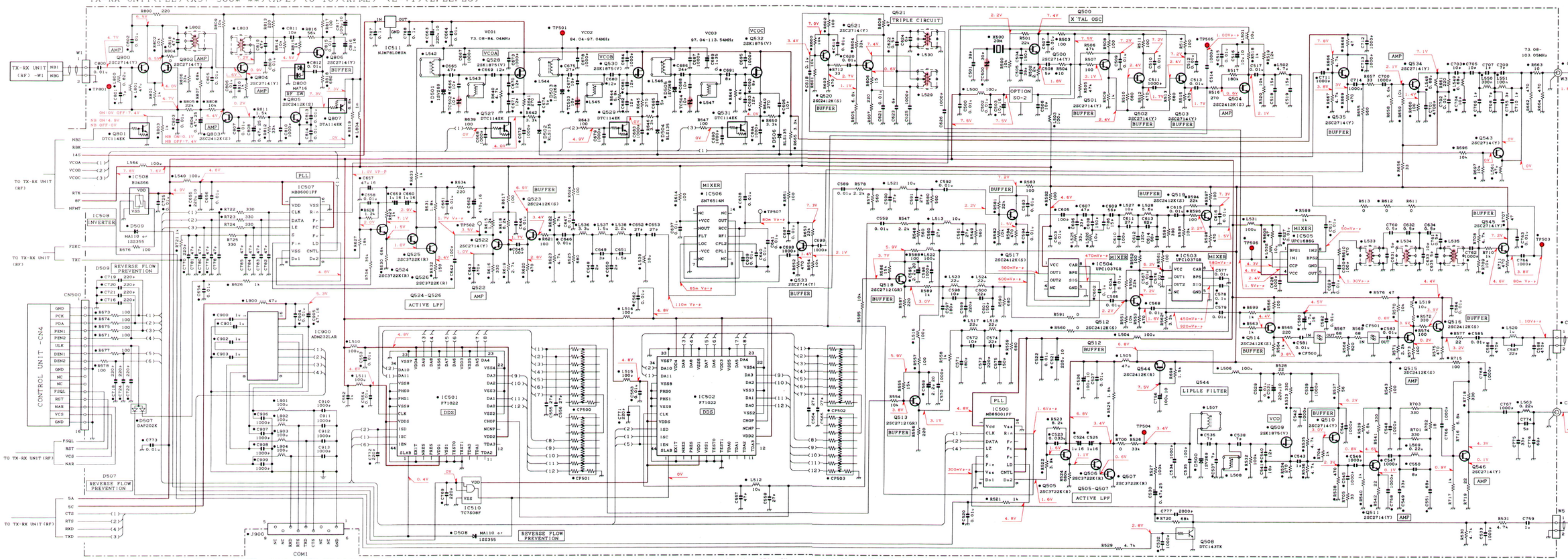
Component side
Foil side

TX-RX UNIT (X57-500X-XX) : RF 0-10 : K,M2 2-71 : E,E2,E3



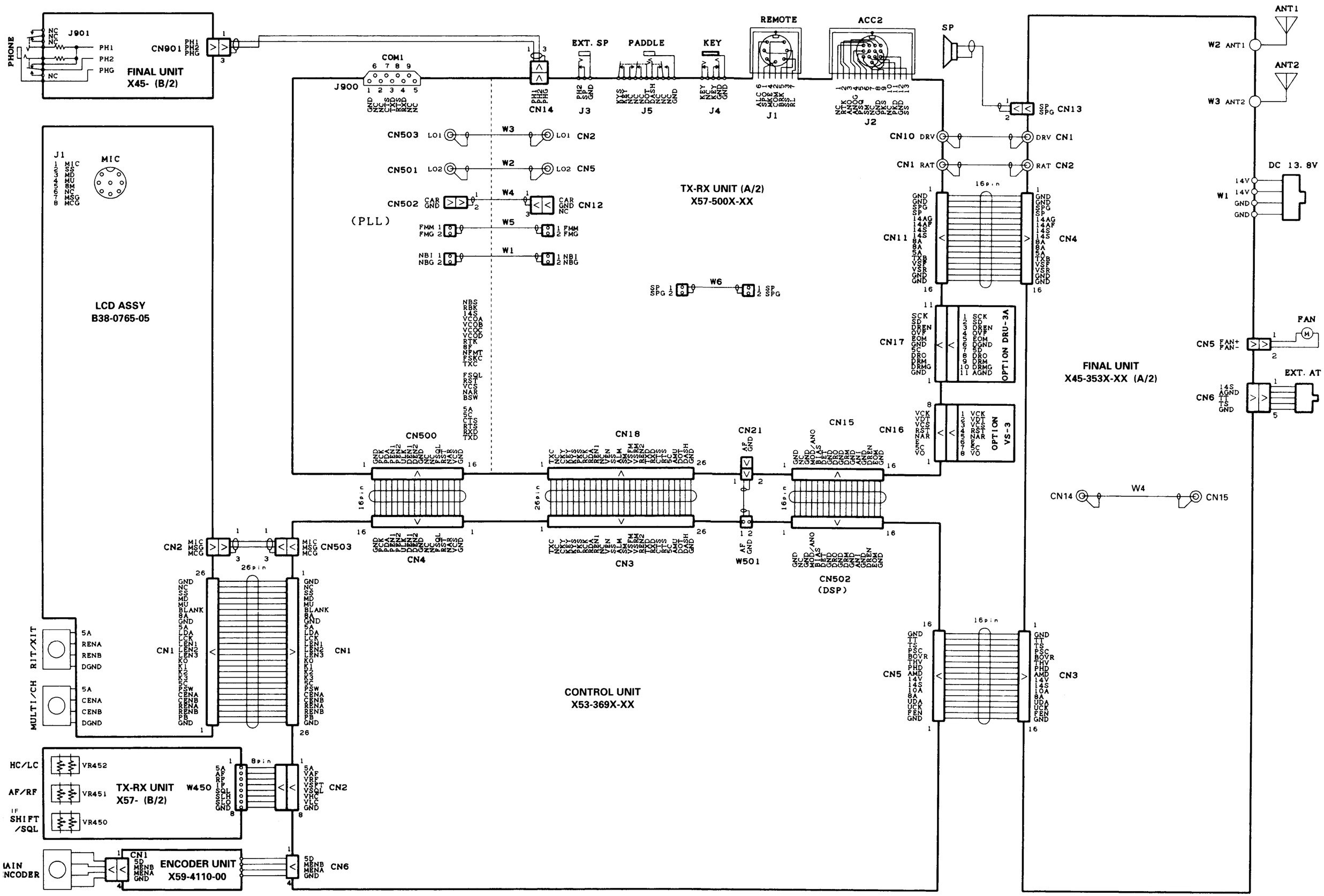
0-10 K, M2	L2	L3	TC1	TC2
2-71 E, E2, E3	6.8μ	3.9μ	30↑	30↑

TX-RX UNIT(PLL)(X57-500*-**)(A/2) (0-10)(K.M2) (2-71)(E.E2.E3)



D500, 501, 503, 505	:ISV269	D508, 509	:1SS355 or MA110	Q500~503, 510, 511, 521, 522, 533~535, 543, 545, 546, 800, 802, 804, 806	:2SC2412K(S)	Q508	:DTC143TK	Q527, 529, 531, 801	:DTC114EK	IC500, 507	:MB86001PF	IC505	:UPC1686G	IC510	:TC7S08F
D502, 504, 506	:RLS135	D800	:MA716		:2SC3722K(R)	Q509, 528, 530, 532	:2SC1815(Y)	Q544	:2SC2412K(R)	IC501, 502	:FT1022	IC506	:SN76514N	IC511	:NJM78L08UA
D507	:DAP202K				:2SC2714(Y)	Q505~507, 524~526	:2SC3722K(R)	Q513, 518	:2SC2712(GR)	Q807	:DTA114EK	IC503, 504	:UPC1037GR	IC508	:BU4S66	IC900	:ADM2321AR

WIRING


PHONE
J901
NC
NC
NC
PH1
PH2
NC
PHG
CN901 PH1 PH2 PHG
FINAL UNIT
X45- (B/2)
COM1
J900
GND NC NC TXD RTS RXD NC NC
CN14
EXT. SP
PH2 SP GND
J3
PADDLE
KYS MIC NC DOT DASH NC NC GND
J5
KEY
KEY KEY GND GND
J4
REMOTE
ALC SPK MIC BRK SS RL
J1
ACC2
NC CK ANO ANO PSK GND PKS PKD SS
J2
SP
SP SPG CN13
ANT1
W2 ANT1
ANT2
W3 ANT2
DC 13.8V
14V 14V GND GND
W1
J1
MIC
1 MIC
2 SS
3 MD
4 MU
5 BM
6 NC
7 MSG
8 MCG
LCD ASSY
B38-0765-05
CN503 LO1 W3 LO1 CN2
CN501 LO2 W2 LO2 CN5
CN502 CAR GND W4 CAR GND NC CN12
(PLL)
FMM FMG W5 FMM FMG
NBI NBG W1 NBI NBG
TX-RX UNIT (A/2)
X57-500X-XX
SP SPG W6 SP SPG
CN10 DRV DRV CN1
CN1 RAT RAT CN2
CN11 CN4
16pin
CN17
OPTION DRU-3A
FINAL UNIT
X45-353X-XX (A/2)
FAN
CN5 FAN+ FAN-
EXT. AT
CN6 14S AGND TT TS GND
CN16
OPTION VS-3
CN15
CN21
AF GND
W501
CN500
CN18
CN4
CN3
CN502
(DSP)
W4
CN14 CN15
CN2 MIC MSG MCG CN503
26pin
CN1
CONTROL UNIT
X53-369X-XX
CN5
CN3
MULTI/CH
RIT/XIT
5A RENA RENB DGND
5A CENA CENB DGND
HC/LC
AF/RF
IF SHIFT /SQL
VR452
VR451
VR450
TX-RX UNIT
X57- (B/2)
W450
8pin
CN2
MAIN ENCODER
CN1 5D MENB MENA GND
ENCODER UNIT
X59-4110-00
CN6

TS-570D GREADE UP SERVICE INSTRUCTION

Implementing this modification makes this identical to G series specifications.

Modification Parts

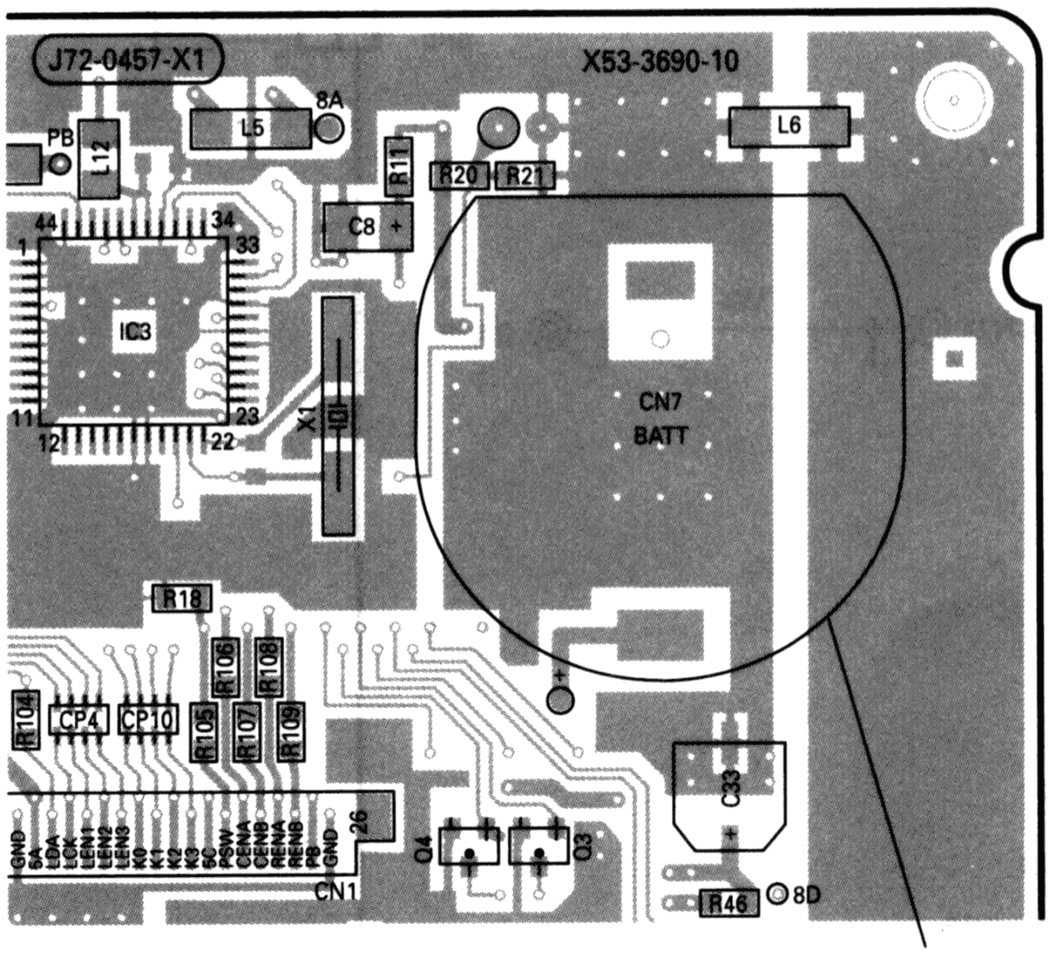
Parts	TS-570D
CPU (IC6)	M37733MHB209FP
EEPROM (IC512)	27C01012DJSHA
Instruction manual	B62-0898-XX : K,M,E,E2,M3
	B62-0899-XX : E,E2
	B62-0900-XX : E2
	B62-0901-XX : E2,E3
	B62-0902-XX : E
	B62-0903-XX : E2,E3

Modification Procedures

(Read these instructions completely before starting.)

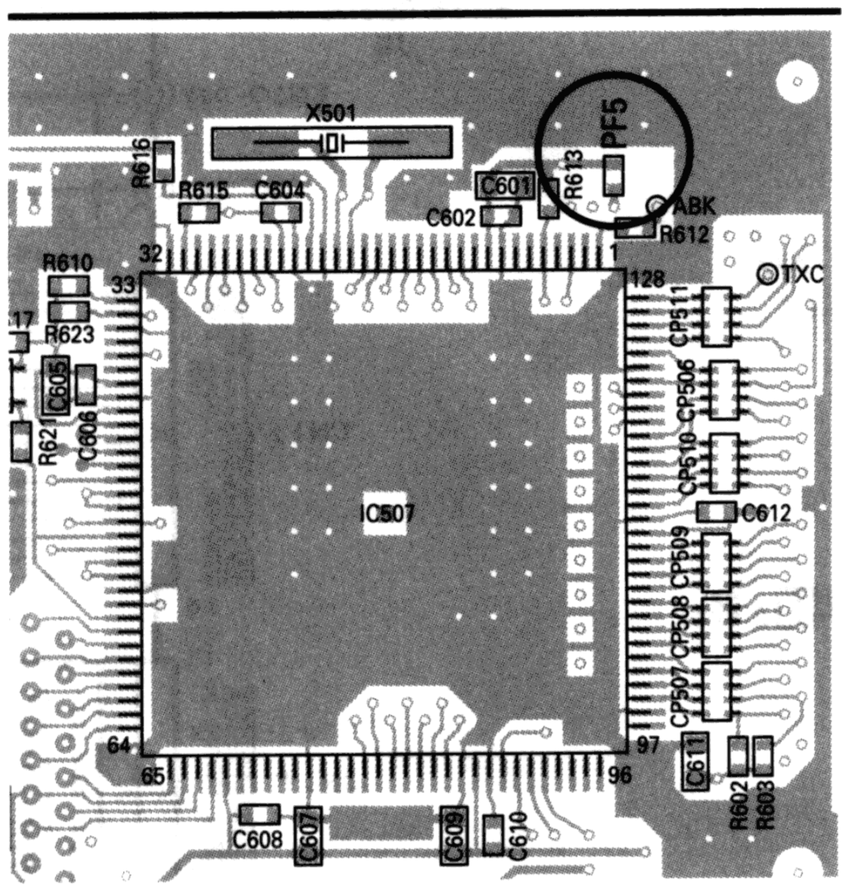
- **Replace the CPU and EEPROM**

1) Remove the lithium battery. (Do not attempt this modification while the lithium battery is still installed.)
2) Replace CPU IC6 which is the control unit X53-369 (reflow); and replace EEPROM IC512 (socket type). (Remove the sub unit installed at the side of the CPU before replacing these components.)



Control unit
X53-369 Component side

Caution : When the control unit PCB (J72-0457-X1) has a 01 or 11 at the end, it means an empty land (PF5) is present near the DSP IC. You must install a 47kΩ resistor 1608 (RK73GB1J473J) at this location.
However if the PCB has a -21 at its end, then nothing has to be done.



Control unit
X53-369 Component side

- **Apply power and check operation**

1) Turn on the external power supply and start up the until without installing the lithium battery. Perform all reset (A=B) just to be safe.
2) With external power still supplied, install the lithium battery (install with "+" side facing up).
3) Make general transmit and receive checks after turning off the power and then turning it back on again.

Note : The alignment settings are already loaded in the EEPROM. If you performed the above modification correctly there is no need for further adjustments.

SPECIFICATIONS

	Item			Rating
GENERAL	Mode			J3E (LSB, USB), A1A (CW), A3E (AM), F3E (FM), F1D (FSK)
	Number of memory channels			100
	Antenna impedance			50Ω (With Antenna Tuner 16.7 to 150Ω)
	Supply voltage			DC 13.8V ± 15%
	Grounding method			Negative ground
	Current	Transmit (Max.)		20.5A
		Receive (No signal)		2A
	Usable temperature range			–10°C to +50°C (+14°F to +122°F)
	Frequency stability (–10°C to +50°C)			Within ±10PPM
	Frequency accuracy (At room temperature)			Within ±10PPM
	Dimensions [W x H x D] (Projections included)			270 x 96 x 270 mm/10.6 x 3.8 x 10.6 in (281 x 107 x 314 mm/11.1 x 4.2 x 12.4 in)
	Weight			Approx. 6.8kg (15 lbs)
TRANSMITTER	Frequency range	160m band		1.8*1 to 2.0*2MHz
		80m band		3.5 to 4.0*3MHz
		40m band		7.0 to 7.3*4MHz
		30m band		10.1 to 10.15MHz
		20m band		14.0 to 14.35MHz
		17m band		18.068 to 18.168MHz
		15m band		21.0 to 21.45MHz
		12m band		24.89 to 24.99MHz
		10m band		28.0 to 29.7MHz
	Output power*5	SSB, CW, FSK, FM	Max.	100W
			Min.	5W
		AM	Max.	25W
			Min.	5W
	Modulation	SSB		Balanced
		FM		Reactance
		AM		Low level
	Spurious emissions			–50dB or less
	Carrier suppression			40dB or more
	Unwanted sideband suppression (Modulation frequency 1.0kHz)			40dB or more
	Maximum frequency deviation (FM)	Wide		±5kHz or less
		Narrow		±2.5kHz or less
	XIT shift frequency range			±9.99kHz
	Microphone imppedance			8Ω

*1 1.81MHz : Europe, France, Holland; 1.83MHz : Belgium, Spain

*2 1.85MHz : Belgium, France, Holland, Spain

*3 3.8MHz : Europe, Belgium, France, Holland, Spain

*4 7.1MHz : Europe, Belgium, France, Holland, Spain

*5 Belgium, Spain : 10W fixed on 160m band

SPECIFICATIONS

	Item			Rating
RECEIVER	Circuit type			Double conversion superheterodyne FM only : Triple conversion superheterodyne
	Frequency range			500kHz to 30MHz
	Intermediate frequency			1st : 73.05MHz, 2nd : 8.83MHz, 3rd : 455kHz (FM only)
	Sensitivity	SSB, CW, FSK (At 10dB (S+N)/N)	500kHz to 1.705MHz	4μV or less
			1.705MHz to 24.5MHz	0.2μV or less
			24.5MHz to 30MHz	0.13μV or less
		AM (At 10dB (S+N)/N)	500kHz to 1.705MHz	31.6μV or less
			1.705MHz to 24.5MHz	2μV or less
			24.5MHz to 30MHz	1.3μV or less
		FM (At 12dB SINAD)	28MHz to 30MHz	0.25μV or less
	Selectivity	SSB, CW, FSK		–6dB : 2.2kHz, –60dB : 4.4kHz
		AM		–6dB : 4kHz, –50dB : 20kHz
		FM		–6dB : 12kHz, –50dB : 25kHz
	Image rejection (1.8MHz to 30MHz)			70dB or more
	1st IF rejection (1.8MHz to 30MHz)			70dB or more
	RIT shift frequency range			±9.99kHz
	Squelch sensitivity	SSB, CW, FSK, AM	500kHz to 1.705MHz	20μV or less
			1.705MHz to 30MHz	2μV or less
		FM	28MHz to 30MHz	0.25μV or less
	Audio output (8Ω, 10% distortion)			1.5W or more
	Audio output impedance			8Ω

Specifications are subject to change without notice or obligation due to ongoing technological developments.