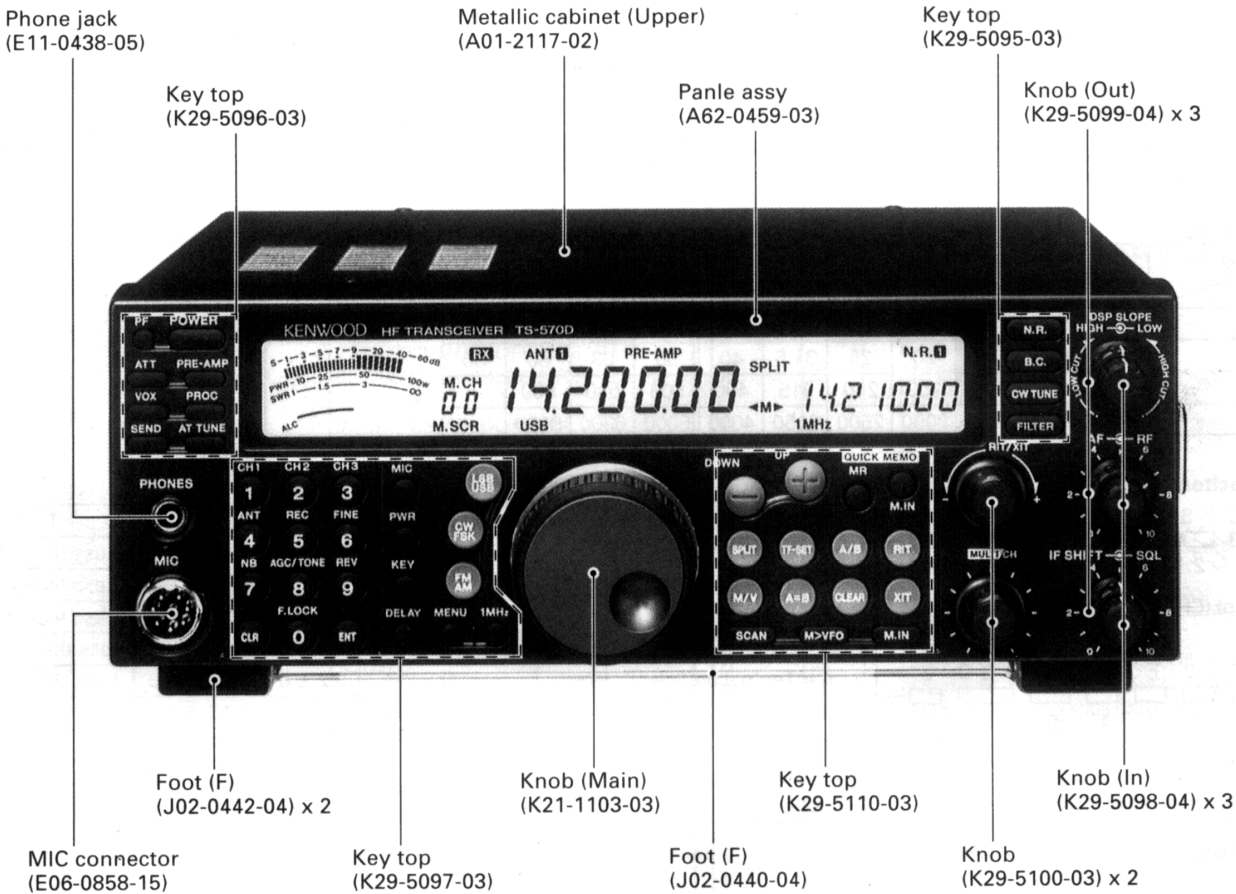


# TS-570DG

## SERVICE MANUAL

### SUPPLEMENT

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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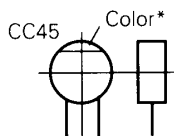
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## PARTS LIST

### CAPACITORS

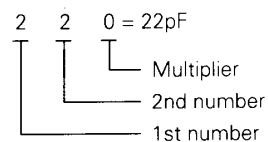
CC 45 TH 1H 220 J  
 1 2 3 4 5 6

- 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

2nd word \ 1st 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

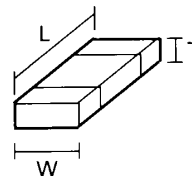
(Chip) (B, F)

#### • 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.  $\Delta$  indicates safety critical components.  
 Parts without **Parts No.** are not supplied.  
 Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.  
 Teile ohne **Parts No.** werden nicht geliefert.

L : Scandinavia      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
<b>TS-570DG</b>					
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)	
-	-		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)	

## PARTS LIST

### FINAL UNIT (X45-353X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
<b>FINAL UNIT (X45-353X-XX)</b>						C79,80			CK73FB1H102K	CHIP C 1000PF K	
<b>0-10 : K,M2 2-71 : E,E2,E3</b>						C81-85			CK73FB1H103K	CHIP C 0.010UF K	
C1			CK73FB1H103K	CHIP C 0.010UF K		C86-94			CK73FB1H102K	CHIP C 1000PF K	
C2			CK73FB1E104K	CHIP C 0.10UF K		C95,96			CC45FSL2H221J	CERAMIC 220PF J	
C3			CK73FB1H102K	CHIP C 1000PF K		C97			CK73FB1E104K	CHIP C 0.10UF K	
C4			CC73FSL1H821J	CHIP C 820PF J		C99		C90-2021-05	ELECTRO 10UF 25WV		
C5			CK73FB1H103K	CHIP C 0.010UF K		C100			CK73FB1E104K	CHIP C 0.10UF K	
C6			CK73FB1E104K	CHIP C 0.10UF K		C101			CM93D2H821J	MICA 820PF J	
C7,8			CK73FB1H102K	CHIP C 1000PF K		C102			CC45FSL2H561J	CERAMIC 560PF J	
C9,10			CK73FB1E104K	CHIP C 0.10UF K		C103			CM93D2H182J	MICA 1800PF J	
C11			CE04EW1E100M	ELECTRO 10UF 25WV		C104			CC45FSL2H181J	CERAMIC 180PF J	
C12,13			CK73FB1H103K	CHIP C 0.010UF K		C105			CM93D2H821J	MICA 820PF J	
C14			CK73FB1E104K	CHIP C 0.10UF K		C106			CK73FB1H103K	CHIP C 0.010UF K	
C15			CK73FB1H102K	CHIP C 1000PF K		C107			CC73FSL1H561J	CHIP C 560PF J	
C16			C90-2193-05	ELECTRO 39UF 25WV		C201			CC45FSL2H561J	CERAMIC 560PF J	
C17			CE04EW1E100M	ELECTRO 10UF 25WV		C202			CC45FSL2H121J	CERAMIC 120PF J	
C18			CK73FB1E104K	CHIP C 0.10UF K		C203			CC45FSL2H331J	CERAMIC 330PF J	
C19			CC45FSL2H221J	CERAMIC 220PF J		C204			CC45FSL2H391J	CERAMIC 390PF J	
C20			CK73FB1E104K	CHIP C 0.10UF K		C205			CC45FSL2H471J	CERAMIC 470PF J	
C21			CK73FB1H472K	CHIP C 4700PF K		C206-208			CC45FSL2H151J	CERAMIC 150PF J	
C22			CM73F2H102J	CHIP C 1000PF J		C209			CK73FB1H103K	CHIP C 0.010UF K	
C23,24			C91-1004-05	CHIP C 6800PF J		C301			CC45FSL2H271J	CERAMIC 270PF J	
C25			CK73FB1E104K	CHIP C 0.10UF K		C302			CC45FSL2H151J	CERAMIC 150PF J	
C26			CK73FB1H102K	CHIP C 1000PF K		C303			CC45FSL2H271J	CERAMIC 270PF J	
C27			CK73FB1H103K	CHIP C 0.010UF K		C304			CC45FSL2H221J	CERAMIC 220PF J	
C28			CM73F2H561J	CHIP C 560PF J		C305			CC45FSL2H680J	CERAMIC 68PF J	
C29			CK73FB1E104K	CHIP C 0.10UF K		C306			CC45FSL2H271J	CERAMIC 270PF J	
C30			CC45FSL2H151J	CERAMIC 150PF J		C307			CK73FB1H103K	CHIP C 0.010UF K	
C31			CK73FB1E104K	CHIP C 0.10UF K		C401			CC45FSL2H181J	CERAMIC 180PF J	E,E2,E3
C32			CM73F2H122J	CHIP C 1200PF J		C402			CC45FSL2H470J	CERAMIC 47PF J	E,E2,E3
C33			C90-2194-05	ELECTRO 220UF 25WV		C403			CC45FSL2H271J	CERAMIC 270PF J	E,E2,E3
C34			CK73FB1E104K	CHIP C 0.10UF K		C404,405			CC45FSL2H151J	CERAMIC 150PF J	E,E2,E3
C35			CC73FSL1H221J	CHIP C 220PF J		C406			CK73FB1H103K	CHIP C 0.010UF K	E,E2,E3
C36			CC73FCH1H101J	CHIP C 100PF J		C407			CC45FSL2H181J	CERAMIC 180PF J	
C37			CC45FCH2H030C	CERAMIC 3.0PF C		C408			CC45FSL2H390J	CERAMIC 39PF J	
C38			CC73FCH1H560J	CHIP C 56PF J		C409			CC45FSL2H181J	CERAMIC 180PF J	K,M2
C39			CC73FSL1H221J	CHIP C 220PF J		C409			CC45FSL2H331J	CERAMIC 330PF J	E,E2,E3
C40-42			CK73FB1H103K	CHIP C 0.010UF K		C410			CC45FSL2H121J	CERAMIC 120PF J	
C43			CC73FCH1H680J	CHIP C 68PF J		C411			CC45FSL2H151J	CERAMIC 150PF J	
C44			CC73FCH1H121J	CHIP C 120PF J		C412			CK73FB1H103K	CHIP C 0.010UF K	
C45			CC73FCH1H560J	CHIP C 56PF J		C413			CC45FSL2H050C	CERAMIC 5.0PF C	K,M2
C46			C91-1075-05	CERAMIC 470PF K		C415			CC45FSL2H121J	CERAMIC 120PF J	K,M2
C47			CK73FB1H103K	CHIP C 0.010UF K		C416			CC45FSL2H050C	CERAMIC 5.0PF C	E,E2,E3
C48			CK73FB1E104K	CHIP C 0.10UF K		C501			CC45FSL2H101J	CERAMIC 100PF J	
C49			CE04EW1E102M	ELECTRO 1000UF 25WV		C502			CC45FSL2H470J	CERAMIC 47PF J	
C50-52			CK73FB1H103K	CHIP C 0.010UF K		C503			CC45FSL2H221J	CERAMIC 220PF J	
C53			CK73FB1E104K	CHIP C 0.10UF K		C504			CC45FSL2H150J	CERAMIC 15PF J	
C54			CK73FB1H102K	CHIP C 1000PF K		C505			CC45FSL2H121J	CERAMIC 120PF J	
C55-57			CK73FB1E104K	CHIP C 0.10UF K		C506			CK73FB1H103K	CHIP C 0.010UF K	
C60			CK73FB1E104K	CHIP C 0.10UF K		C601			CC45FSL2H680J	CERAMIC 68PF J	
C61,62			CE04EW1E100M	ELECTRO 10UF 25WV		C602			CC45FSL2H470J	CERAMIC 47PF J	
C63			CE04EW1E102M	ELECTRO 1000UF 25WV		C603			CC45FSL2H121J	CERAMIC 120PF J	
C64,65			CK73FB1E104K	CHIP C 0.10UF K		C604			CC45FSL2H100D	CERAMIC 10PF D	
C66			CK73FB1H103K	CHIP C 0.010UF K		C605			CC45FSL2H120J	CERAMIC 12PF J	
C67			CE04EW1E471M	ELECTRO 470UF 25WV		C606			CC45FSL2H680J	CERAMIC 68PF J	
C68-74			CK73FB1H103K	CHIP C 0.010UF K		C607			CK73FB1H103K	CHIP C 0.010UF K	
C75			CK73FB1H102K	CHIP C 1000PF K		C800			CM93D2H560J	MICA 56PF J	
C76			CE04EW1A470M	ELECTRO 47UF 10WV		C801-804			C91-3126-05	HV C 10PF 3KV	
C77,78			CK73FB1H103K	CHIP C 0.010UF K		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	Ref. No.	Address	New parts	Parts No.	Description	Destination
C807-811			C91-3123-05	HV C 150PF 3KV		L101			L39-1259-05	TROIDAL COIL	
C812			C91-3126-05	HV C 10PF 3KV		L102			L39-1260-05	TROIDAL COIL	
C813,814			C91-3115-05	HV C 10PF 2KV		L103			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
C815			C91-3126-05	HV C 10PF 3KV		L201			L39-1224-05	TROIDAL COIL	
C816			C91-3127-05	HV C 18PF 3KV		L202			L39-1225-05	TROIDAL COIL	
C817			C91-3128-05	HV C 39PF 3KV		L203			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
C818-822			C91-3123-05	HV C 150PF 3KV		L301			L39-1266-05	TROIDAL COIL	
C823-869			CK73FB1H103K	CHIP C 0.010UF K		L302			L39-1258-05	TROIDAL COIL	
C835-869			CK73FB1H103K	CHIP C 0.010UF K		L303			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
C870-873			C91-3115-05	HV C 10PF 2KV		L401			L39-1221-05	TROIDAL COIL	E,E2,E3
C874,875			CK73FB1H103K	CHIP C 0.010UF K		L402			L39-1220-05	TROIDAL COIL	E,E2,E3
C876-879			C91-3115-05	HV C 10PF 2KV		L403			L40-1015-48	SMALL FIXED INDUCTOR	E,E2,E3
C901			CK73FB1E104K	CHIP C 0.10UF K		L404			L39-1221-05	TROIDAL COIL	
C902			CC73FCH1H100D	CHIP C 10PF D		L405			L39-1220-05	TROIDAL COIL	
C903			CE04EW1H470M	ELECTRO 47UF 50WV		L406			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
C951-954			CK73EF1C105Z	CHIP C 1.0UF Z		L501			L34-1280-05	COIL (6.5T)	
TC1			C05-0030-15	TRIMMER CAPACITOR (20PF)		L502			L34-1279-05	COIL (7.5T)	
TC2			C05-0031-15	TRIMMER CAPACITOR (10PF)		L503			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
CN1			E04-0191-05	RF COAXIAL CABLE RECEPTACLE		L601			L34-1282-05	COIL (4.5T)	
CN2			E04-0154-05	RF COAXIAL CABLE RECEPTACLE		L602			L34-1281-05	COIL (5.5T)	
CN3,4			E40-5764-05	PIN CONNECTOR FOR INSIDE		L603			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
CN5			E40-3246-05	PIN CONNECTOR FOR INSIDE (FAN)		L801,802			L39-1264-05	TROIDAL COIL	
CN6			E40-3240-05	PIN CONNECTOR FOR INSIDE (SP)		L803			L39-1263-05	TROIDAL COIL	
CN8			E23-0996-05	TERMINAL		L804			L34-4476-05	COIL (7.5T)	
CN10-12			E23-0996-05	TERMINAL		L805-807			L34-4474-05	COIL (1.5T)	
CN13			E40-3237-05	PIN CONNECTOR FOR INSIDE (SP)		L808			L34-4488-05	COIL (0.5T)	
CN14,15			E04-0154-05	RF COAXIAL CABLE RECEPTACLE		L809			L34-4489-05	COIL (3.5T)	
CN901			E40-3300-05	PIN CONNECTOR FOR INSIDE (PHONE)		L810-832			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
J901			E11-0438-05	PHONE JACK		R1			RK73FB2A331J	CHIP R 330 J 1/10W	
W1	1C		E37-0594-05	LEAD WIRE WITH CONNECTOR	K,M2	R2			RK73FB2A681J	CHIP R 680 J 1/10W	
W1	1C		E37-0678-05	LEAD WIRE WITH CONNECTOR	E,E2,E3	R3			RK73FB2A101J	CHIP R 100 J 1/10W	
W4	1C		E37-0198-05	LEAD WIRE WITH MINIPIN PLUG		R4,5			RK73FB2A6R8J	CHIP R 6.8 J 1/10W	
F1			F53-0093-05	FUSE (5A/125V)		R6			R92-1221-05	CHIP R 82 J 1/4W	
F2			F06-4027-05	FUSE BLADE (4A/32V)		R7			R92-1242-05	CHIP R 6.8 J 1/4W	
A1,2			J13-0410-05	FUSE HOLDER		R8			R92-1243-05	CHIP R 8.2 J 1/4W	
L2			L40-1015-48	SMALL FIXED INDUCTOR (100UH)		R9			RK73FB2A331J	CHIP R 330 J 1/10W	
L3			L40-3395-48	SMALL FIXED INDUCTOR (3.3UH)		R10			R92-1318-05	CHIP R 100 J 1W	
L4			L39-0481-05	TROIDAL COIL		R11,12			R92-0696-05	CHIP R 33 J 1/4W	
L5-7			L33-0699-05	CHOKE COIL		R13			R92-1318-05	CHIP R 100 J 1W	
L8			L39-1257-05	TROIDAL COIL		R14-17			RS14CB3A5R6J	FL-PROOF RS 5.6 J 1W	
L9			L33-0617-15	CHOKE COIL		R18,19			RS14CB3A150J	FL-PROOF RS 15 J 1W	
L10			L40-4795-48	SMALL FIXED INDUCTOR (4.7UH)		R20			RK73FB2A391J	CHIP R 390 J 1/10W	
L11,12			L33-0699-05	CHOKE COIL		R21,22			RS14CB3A4R7J	FL-PROOF RS 4.7 J 1W	
L13			L39-0482-05	TROIDAL COIL		R23			RK73FB2A4R7J	CHIP R 4.7 J 1/10W	
L14			L33-0617-15	CHOKE COIL		R24			R92-0686-05	CHIP R 33 J 1/2W	
L15			L33-0651-05	CHOKE COIL		R25			R92-1212-05	CHIP R 27 J 1/2W	
L16			L39-1252-15	TROIDAL COIL		R26,27			R92-1213-05	CHIP R 100 J 1/2W	
L17			L40-2221-33	SMALL FIXED INDUCTOR		R28			RK73FB2A470J	CHIP R 47 J 1/10W	
L18			L39-0480-15	TROIDAL COIL		R29-32			RK73FB2A104J	CHIP R 100K J 1/10W	
L19			L40-2221-33	SMALL FIXED INDUCTOR		R33			RK73FB2A102J	CHIP R 1.0K J 1/10W	
L20			L39-0496-05	TROIDAL COIL		R34			R92-1292-05	CHIP R 68 J 1W	
L21			L39-0415-25	TROIDAL COIL		R35			R92-1288-05	CHIP R 56 J 1W	
L22,23			L40-2785-48	SMALL FIXED INDUCTOR (270NH)		R36,37			RK73FB2A102J	CHIP R 1.0K J 1/10W	
L24,25			L79-0558-05	FILTER	E,E2,E3	R38,39			RK73FB2A181J	CHIP R 180 J 1/10W	
L26			L40-1001-12	SMALL FIXED INDUCTOR		R40,41			RK73FB2A103J	CHIP R 10K J 1/10W	
L27			L40-1015-48	SMALL FIXED INDUCTOR (100UH)		R42,43			RK73FB2A563J	CHIP R 56K J 1/10W	
L28,29			L40-1005-48	SMALL FIXED INDUCTOR (10UH)		R44,45			RK73FB2A103J	CHIP R 10K J 1/10W	
L30-32			L40-1001-12	SMALL FIXED INDUCTOR		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	Ref. No.	Address	New parts	Parts No.	Description	Destination
R48			RK73FB2A101J	CHIP R 100 J 1/10W	K,M2	Q4,5			2SC2879	TRANSISTOR (POWER AMP)	
R49			RK73FB2A121J	CHIP R 120 J 1/10W		Q6			2SC3421(Y)	TRANSISTOR	
R50			RK73FB2A822J	CHIP R 8.2K J 1/10W		Q7-9			FMC2	TRANSISTOR	
R51			RK73FB2A682J	CHIP R 6.8K J 1/10W		Q10			DTC114EK	DIGITAL TRANSISTOR	
R52,53			RK73FB2A103J	CHIP R 10K J 1/10W		Q11			DTC143TK	DIGITAL TRANSISTOR	
R54-56			RK73FB2A101J	CHIP R 100 J 1/10W		Q12,13			DTD123EK	DIGITAL TRANSISTOR	
R57-60			R92-2569-05	JUMPER WIRE 0 OHM		Q14,15			2SC2714(Y)	TRANSISTOR	
R901,902			R92-1205-05	CHIP R 120 J 1/4W		Q16			DTC114EK	DIGITAL TRANSISTOR	
VR1			R12-6730-05	TRIMMING POT. 220		TH1			5TP-41S	THERMISTOR	
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							
<b>CONTROL UNIT (X53-369X-XX)</b>											
<b>0-12 : K 0-22 : M2 2-74 : E 2-75 : E2 2-76 : E3</b>											
K1			S51-2417-05	RELAY	E,E2,E3	C1			CK73FB1H103K	CHIP C 0.010UF K	
K2			S51-1429-05	RELAY		C2			C92-0009-05	CHIP-TAN 4.7UF 10WV	
K3			S51-2417-05	RELAY		C3,4			CK73FB1H102K	CHIP C 1000PF K	
K4			S76-0414-05	RELAY		C7			CK73FB1H103K	CHIP C 0.010UF K	
K101,102			S51-1420-05	RELAY		C8			C92-0009-05	CHIP-TAN 4.7UF 10WV	
K201,202			S51-1420-05	RELAY		C9			CK73FF1E104Z	CHIP C 0.10UF Z	
K301,302			S51-1420-05	RELAY		C10			CK73FB1H102K	CHIP C 1000PF K	
K401,402			S51-1420-05	RELAY		C11			CK73FF1C105Z	CHIP C 1.0UF Z	
K403,404			S51-1420-05	RELAY		C12			CK73FB1H103K	CHIP C 0.010UF K	
K501,502			S51-1420-05	RELAY		C13			CK73FF1E104Z	CHIP C 0.10UF Z	
K601,602			S51-1420-05	RELAY	C14,15			CC73FCH1H330J	CHIP C 33PF J		
K801-814			S76-0419-05	RELAY	C16,17			CK73FB1H103K	CHIP C 0.010UF K		
K815-821			S76-0415-05	RELAY	C18			CK73FF1E104Z	CHIP C 0.10UF Z		
K822,823			S76-0419-05	RELAY	C19			CK73FF1C105Z	CHIP C 1.0UF Z		
D1			MA27T-B	VARIATOR	C20,21			CK73FB1H103K	CHIP C 0.010UF K		
D2-4			MA27-B	VARIATOR	C22,23			C92-0037-05	CHIP-ELE 10UF 16WV		
D5,6			1SS101	DIODE	C24-27			CK73FB1H102K	CHIP C 1000PF K		
D7-9			LF801	DIORD	C28,29			CK73FF1E104Z	CHIP C 0.10UF Z		
D10,11			DSA301LA	DIORD	C30			CK73FF1C105Z	CHIP C 1.0UF Z		
D12			SG-5L(R)	DIORD	C31,32			CK73FF1E104Z	CHIP C 0.10UF Z		
D13			ERZ-M10DK220	SURGE ABSORBER	C33			C92-0040-05	CHIP-ELE 47UF 16WV		
D14			02C218(X,Y)	ZENER DIORD	C36,37			CC73FCH1H220J	CHIP C 22PF J		
D15			LF801	DIORD	C103			CK73FF1E104Z	CHIP C 0.10UF Z		
D16			DAN202K	DIORD	C104-107			CK73FB1H102K	CHIP C 1000PF K		
D17			LF801	DIORD	C108,109			CK73FF1E104Z	CHIP C 0.10UF Z		
D18-23			1SS226	DIORD	C110-118			CK73FB1H102K	CHIP C 1000PF K		
D24,25			1SS101	DIORD	C119			CK73FF1E104Z	CHIP C 0.10UF Z		
D26			DSA301LA	DIORD	C120			CK73FB1H102K	CHIP C 1000PF K		
D101			LF801	DIORD	C121-124			CK73FB1H103K	CHIP C 0.010UF K		
D201			LF801	DIORD	C125			CK73FF1E104Z	CHIP C 0.10UF Z		
D301			LF801	DIORD	C126			CK73FB1H103K	CHIP C 0.010UF K		
D401			LF801	DIORD	C127,128			CK73FB1H102K	CHIP C 1000PF K		
D402			LF801	DIORD	C129-134			CK73FB1H103K	CHIP C 0.010UF K		
D501			LF801	DIORD	C135-150			CK73FB1H102K	CHIP C 1000PF K		
D601			LF801	DIORD	C151-154			CC73FCH1H101J	CHIP C 100PF J		
D801-823			LF801	DIORD	C155			CK73FF1E104Z	CHIP C 0.10UF Z		
IC1			TA7805S	IC (VOLTAGE REGULATOR/ +5V)	C156			CK73FB1H102K	CHIP C 1000PF K		
IC2			TA7808S	IC (REGULATOR)	C158-162			CK73FB1H102K	CHIP C 1000PF K		
IC3			TA75S393F	IC	C163-169			CK73FB1H102K	CHIP C 1000PF K		
IC4			SN74S74NS	IC (FLIP-FLOP)	C170-172			CK73FF1E104Z	CHIP C 0.10UF Z		
IC5			M54562P	IC (500mA DARLINGTON)	C173-183			CK73FB1H102K	CHIP C 1000PF K		
IC6			NJU3714G	IC	C184			CK73FF1E104Z	CHIP C 0.10UF Z		
IC7-9			UPD6345GS	IC	C501			C92-0004-05	CHIP-TAN 1.0UF 16WV		
IC10			BA10T	IC (REGULATOR)	C502,503			CK73GB1H102K	CHIP C 1000PF K		
Q1			2SC1971	TRANSISTOR (PRI-DRIV AMP)	C504,505			CK73EB1H223K	CHIP C 0.022UF K		
Q2,3			2SC3133	TRANSISTOR (DRIV AMP)							

## PARTS LIST

CONTROL UNIT (X53-369X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C506			CK73EB1H105Z	CHIP C 1.0UF Z		L8-10			L40-4705-48	SMALL FIXED INDUCTOR (47UH)	
C507-509			CK73FF1E104Z	CHIP C 0.10UF Z		L11			L40-1292-18	SMALL FIXED INDUCTOR	
C510			CC73GSL1H221J	CHIP C 220PF J		L12			L40-4705-48	SMALL FIXED INDUCTOR (47UH)	
C511,512			CK73FF1E104Z	CHIP C 0.10UF Z		L501			L40-1095-48	SMALL FIXED INDUCTOR (1UH )	
C513			CC73FCH1H102J	CHIP C 1000PF J		L502			L40-4705-48	SMALL FIXED INDUCTOR (47UH)	
C514			C92-0004-05	CHIP-TAN 1.0UF 16WV		L503			L40-1292-18	SMALL FIXED INDUCTOR	
C515			C92-0038-05	CHIP-ELE 22UF 16WV		L504			L40-1095-48	SMALL FIXED INDUCTOR (1UH)	
C516			C90-2073-05	ELECTRO 6.8UF 16WV		L505			L40-1001-18	SMALL FIXED INDUCTOR	
C517			C92-0037-05	CHIP-ELE 10UF 16WV		L506			L40-1095-48	SMALL FIXED INDUCTOR (1UH)	
C518,519			CK73FF1E104Z	CHIP C 0.10UF Z		X1			L77-1681-05	CRYSTAL RESONATOR (4.51MHZ)	
C520,521			CK73GB1H102K	CHIP C 1000PF K		X2			L77-1680-05*	CRYSTAL RESONATOR (11.0592MHZ)	
C522			C92-0037-05	CHIP-ELE 10UF 16WV		X501			L77-1679-05	CRYSTAL RESONATOR (12.288MHZ)	
C523,524			CK73FF1E104Z	CHIP C 0.10UF Z		CP1-7			R90-1014-05	MULTI-COMP R	
C525-527			CK73GB1H562K	CHIP C 5600PF K		CP8,9			R90-0748-05	MULTI-COMP R (47Kx4)	
C528			CK73FB1H682K	CHIP C 6800PF K		CP10			R90-1014-05	MULTI-COMP R	
C530			CK73GB1H102K	CHIP C 1000PF K		CP11			R90-0748-05	MULTI-COMP R (47Kx4)	
C531			CK73GB1H562K	CHIP C 5600PF K		CP12			R90-0714-05	MULTI-COMP R (10Kx4)	
C532			C92-0037-05	CHIP-ELE 10UF 16WV		CP13			R90-1014-05	MULTI-COMP R	
C533			CK73GB1H103K	CHIP C 0.010UF K		CP506-511			R90-1014-05	MULTI-COMP R	
C534			CC73GCH1H101J	CHIP C 100PF J		R1			RK73FB2A102J	CHIP R 1.0K J 1/10W	
C535			C92-0037-05	CHIP-ELE 10UF 16WV		R2			RK73FB2A472J	CHIP R 4.7K J 1/10W	
C537			C92-0040-05	CHIP-ELE 47UF 16WV		R3			RK73FB2A104J	CHIP R 100K J 1/10W	
C538			CK73GB1H103K	CHIP C 0.010UF K		R4			RK73FB2A155J	CHIP R 1.5M J 1/10W	
C539			CK73GB1H102K	CHIP C 1000PF K		R5-7			RK73FB2A472J	CHIP R 4.7K J 1/10W	
C540			CK73FB1E104K	CHIP C 0.10UF K		R8			RK73FB2A473J	CHIP R 47K J 1/10W	
C541			CK73FF1C105Z	CHIP C 1.0UF Z		R9			RK73FB2A102J	CHIP R 1.0K J 1/10W	
C542-544			C92-0507-05	CHIP-TAN 4.7UF 6.3WV		R10,11			RK73FB2A100J	CHIP R 10 J 1/10W	
C546-549			C92-0507-05	CHIP-TAN 4.7UF 6.3WV		R13			RK73FB2A103J	CHIP R 10K J 1/10W	
C550			C92-0040-05	CHIP-ELE 47UF 16WV		R14			RK73FB2A102J	CHIP R 1.0K J 1/10W	
C601			CK73FB1E104K	CHIP C 0.10UF K		R15			RK73FB2A473J	CHIP R 47K J 1/10W	
C602			CC73GSL1H471J	CHIP C 470PF J		R16			RK73FB2A105J	CHIP R 1.0M J 1/10W	
C603			CK73FB1E104K	CHIP C 0.10UF K		R17			R92-0670-05	CHIP R 0 OHM	
C604			CC73GSL1H471J	CHIP C 470PF J		R18			RK73FB2A473J	CHIP R 47K J 1/10W	
C605			CK73FB1E104K	CHIP C 0.10UF K		R19			RK73FB2A102J	CHIP R 1.0K J 1/10W	
C606			CC73GSL1H471J	CHIP C 470PF J		R21			R92-0670-05	CHIP R 0 OHM	
C607			CK73FB1E104K	CHIP C 0.10UF K		R22			RK73FB2A102J	CHIP R 1.0K J 1/10W	
C608			CC73GSL1H471J	CHIP C 470PF J		R24			RK73FB2A102J	CHIP R 1.0K J 1/10W	M2,E3
C609			CK73FB1E104K	CHIP C 0.10UF K		R25			RK73FB2A102J	CHIP R 1.0K J 1/10W	E,E2,E3
C610			CC73GSL1H471J	CHIP C 470PF J		R26			RK73FB2A102J	CHIP R 1.0K J 1/10W	M2,E2
C611			CK73FB1E104K	CHIP C 0.10UF K		R27			RK73FB2A102J	CHIP R 1.0K J 1/10W	E
C612			CC73GSL1H471J	CHIP C 470PF J		R31,32			RK73FB2A102J	CHIP R 1.0K J 1/10W	
C613,614			CC73GCH1H100D	CHIP C 10PF D		R33			RK73FB2A103J	CHIP R 10K J 1/10W	
C615-617			CK73GB1H103K	CHIP C 0.010UF K		R34			RK73FB2A473J	CHIP R 47K J 1/10W	
C701-733			CC73GCH1H101J	CHIP C 100PF J		R35			RK73FB2A472J	CHIP R 4.7K J 1/10W	
CN1			E40-5736-05	PIN CONNECTOR FOR INSIDE (26P)		R36			RK73FB2A471J	CHIP R 470 J 1/10W	
CN2			E40-3252-05	PIN CONNECTOR FOR INSIDE (8P)		R37			RK73FB2A472J	CHIP R 4.7K J 1/10W	
CN3			E40-5761-05	PIN CONNECTOR FOR INSIDE (26P)		R38,39			RK73FB2A473J	CHIP R 47K J 1/10W	
CN4,5			E40-5762-05	PIN CONNECTOR FOR INSIDE (16P)		R41			RK73FB2A102J	CHIP R 1.0K J 1/10W	K,E,E2,E3
CN6			E40-0411-05	PIN CONNECTOR FOR INSIDE (4P)		R42			RK73FB2A473J	CHIP R 47K J 1/10W	
CN6			E40-5047-05	PIN CONNECTOR FOR INSIDE (4P)		R44			RK73FB2A473J	CHIP R 47K J 1/10W	
CN501			E02-2032-05	IC SOCKET (32P)		R45			RK73FB2A104J	CHIP R 100K J 1/10W	
CN502			E40-5762-05	PIN CONNECTOR FOR INSIDE (16P)		R46			RK73FB2A470J	CHIP R 47 J 1/10W	
CN503			E40-3247-05	PIN CONNECTOR FOR INSIDE (3P)		R47			R92-0670-05	CHIP R 0 OHM	
W501			E37-0646-05	LEAD WIRE WITH CONNECTOR		R51			R92-0670-05	CHIP R 0 OHM	
CN7			J19-1570-05	BATT HOLDER		R52,53			RK73FB2A103J	CHIP R 10K J 1/10W	
L1,2			L40-4705-48	SMALL FIXED INDUCTOR (47UH)		R101-103			RK73FB2A102J	CHIP R 1.0K J 1/10W	
L3,4			L40-1001-18	SMALL FIXED INDUCTOR		R104-109			RK73FB2A101J	CHIP R 100 J 1/10W	
L5,6			L40-1292-18	SMALL FIXED INDUCTOR		R114-133			RK73FB2A101J	CHIP R 100 J 1/10W	
L7			L40-1095-48	SMALL FIXED INDUCTOR (1UH)		R135-138			RK73FB2A101J	CHIP R 100 J 1/10W	

# PARTS LIST

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

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R139,140			RK73FB2A473J	CHIP R 47K J 1/10W		IC3			UPD75004GB-746	IC (4bit MICROPROCESSOR)	
R141,142			RK73FB2A103J	CHIP R 10K J 1/10W		IC4			M62003FP	IC	
R143,144			RK73FB2A104J	CHIP R 100K J 1/10W		IC5			CXD1095Q	IC	
R147,148			RK73FB2A104J	CHIP R 100K J 1/10W		IC6		*	M37733MHB209FP	IC (CPU)	
R501			RK73GB1J472J	CHIP R 4.7K J 1/16W		IC7,8			TC4052BF	IC (4CH MPX/DE-MPX)	
R502,503			RK73GB1J102J	CHIP R 1.0K J 1/16W		IC9			NJM78L05UA	IC (VOLTAGE REGULATOR/ +5V)	
R504			RK73GB1J334J	CHIP R 330K J 1/16W		IC10			NJM78L06UA	IC (VOLTAGE REGULATOR/ +6V)	
R505			RK73GB1J472J	CHIP R 4.7K J 1/16W		IC11			NJM78L08UA	IC (VOLTAGE REGULATOR/ +8V)	
R506			RK73GB1J683J	CHIP R 68K J 1/16W		IC501			NJM2100M	IC (OP AMPLIFIER)	
R507,508			RK73GB1J222J	CHIP R 2.2K J 1/16W		IC502			BU4066BCFV	IC (ANALOG SWITCH X4)	
R509			RK73GB1J334J	CHIP R 330K J 1/16W		IC503			NJM2100M	IC (OP AMPLIFIER)	
R510			RK73GB1J223J	CHIP R 22K J 1/16W		IC504			AK4506-VS	IC (AD/DA-COVERTOR)	
R511			RK73GB1J472J	CHIP R 4.7K J 1/16W		IC505,506			NJM2100M	IC (OP AMPLIFIER)	
R512			RK73GB1J103J	CHIP R 10K J 1/16W		IC507			ADSP2181KS-115	IC	
R513			RK73GB1J104J	CHIP R 100K J 1/16W		IC508			TC74HC4040AF	IC (BINARY COUNTER)	
R514			RK73GB1J103J	CHIP R 10K J 1/16W		IC511			TC7S04F	IC (2CH NAND GATE)	
R515			RK73GB1J102J	CHIP R 1.0K J 1/16W		IC512		*	27C01012DJSHA	IC	
R516			RK73GB1J682J	CHIP R 6.8K J 1/16W		IC513			NJM78L05UA	IC (VOLTAGE REGULATOR/ +5V)	
R517,518			RK73GB1J103J	CHIP R 10K J 1/16W		Q1,2			DTC143EK	DIGITAL TRANSISTOR	
R519			RK73GB1J274J	CHIP R 270K J 1/16W		Q3,4			DTC114EK	DIGITAL TRANSISTOR	
R520			RK73GB1J123J	CHIP R 12K J 1/16W		Q5			DTA143EK	DIGITAL TRANSISTOR	
R521-523			RK73GB1J102J	CHIP R 1.0K J 1/16W		Q6			DTC143EK	DIGITAL TRANSISTOR	
R525			RK73GB1J100J	CHIP R 10 J 1/16W		Q7			DTA143EK	DIGITAL TRANSISTOR	
R528,529			RK73GB1J183J	CHIP R 18K J 1/16W		Q8			DTC143TK	DIGITAL TRANSISTOR	
R530,531			RK73GB1J103J	CHIP R 10K J 1/16W		Q9			DTC143EK	DIGITAL TRANSISTOR	
R532,533			RK73GB1J183J	CHIP R 18K J 1/16W		Q10			DTA143EK	DIGITAL TRANSISTOR	
R534			RK73GB1J103J	CHIP R 10K J 1/16W		Q11,12			DTC143EK	DIGITAL TRANSISTOR	
R535-537			RK73GB1J153J	CHIP R 15K J 1/16W							
R538			RK73GB1J103J	CHIP R 10K J 1/16W		100	2B	*	X59-4110-00	MODULE UNIT (ENCODER)	
R539,540			RK73GB1J472J	CHIP R 4.7K J 1/16W							
R541			RK73GB1J223J	CHIP R 22K J 1/16W		<b>TX-RX UNIT (X57-500X-XX)</b>					
R542			RK73GB1J101J	CHIP R 100 J 1/16W		<b>0-10 : K,M2      2-71 : E,E2,E3</b>					
R544			RK73GB1J561J	CHIP R 560 J 1/16W		C1,2			CK73FB1H103K	CHIP C 0.010UF	K
R545-550			R92-0670-05	CHIP R 0 OHM		C3			CC73FCH1H470J	CHIP C 47PF	J
R553-555			R92-0670-05	CHIP R 0 OHM		C4			CC73FCH1H070D	CHIP C 7.0PF	D
R556			RK73GB1J561J	CHIP R 560 J 1/16W		C5			CK73FF1E104Z	CHIP C 0.10UF	Z
R557			RK73GB1J682J	CHIP R 6.8K J 1/16W		C6			CC73FCH1H390J	CHIP C 39PF	J
R558			RK73GB1J104J	CHIP R 100K J 1/16W		C7			CK73FB1H182K	CHIP C 1800PF	K
R559-565			RK73GB1J223J	CHIP R 22K J 1/16W		C8			CK73FF1C105Z	CHIP C 1.0UF	Z
R566			RK73GB1J270J	CHIP R 27 J 1/16W		C9			CK73EF1H104Z	CHIP C 0.10UF	Z
R602-605			RK73GB1J473J	CHIP R 47K J 1/16W		C10			CK73FF1E104Z	CHIP C 0.10UF	Z
R610			RK73GB1J473J	CHIP R 47K J 1/16W		C11			CK73FB1H472K	CHIP C 4700PF	K
R612			RK73GB1J101J	CHIP R 100 J 1/16W		C12			CK73FB1H103K	CHIP C 0.010UF	K
R613			RK73GB1J473J	CHIP R 47K J 1/16W		C13			CK73FB1H182K	CHIP C 1800PF	K
R615			RK73GB1J473J	CHIP R 47K J 1/16W		C14			CE04EW1E4R7M	ELECTRO 4.7UF	25WV
R616			RK73GB1J101J	CHIP R 100 J 1/16W		C15			CK73FB1H103K	CHIP C 0.010UF	K
R618-621			RK73GB1J101J	CHIP R 100 J 1/16W		C16			CK73FB1H222K	CHIP C 2200PF	K
R623,624			RK73GB1J473J	CHIP R 47K J 1/16W		C17			CK73FB1H472K	CHIP C 4700PF	K
R625			RK73GB1J103J	CHIP R 10K J 1/16W		C18			CK73FB1H222K	CHIP C 2200PF	K
R626			RK73GB1J104J	CHIP R 100K J 1/16W		C19			CK73FB1H103K	CHIP C 0.010UF	K
R627-629			R92-0670-05	CHIP R 0 OHM		C20			CK73FF1C105Z	CHIP C 1.0UF	Z
D1-4			1SS355	DIODE		C21			CK73FB1H102K	CHIP C 1000PF	K
D5			DAN202U	DIODE		C22,23			CK73FB1H392K	CHIP C 3900PF	K
D6,7			1SS355	DIODE		C24			CK73FF1E104Z	CHIP C 0.10UF	Z
D8,9			O2C28.2(Y)	DIODE		C25,26			CK73FB1H102K	CHIP C 1000PF	K
D10			DAN202U	DIODE		C27			CK73FF1E104Z	CHIP C 0.10UF	Z
D11			1SS355	DIODE		C28			CK73FB1H561K	CHIP C 560PF	K
IC1			AT24C64N10SI27	IC (64kbit SERIAL EEPROM)							
IC2			CAT93C57K1	IC							



## PARTS LIST

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

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C29,30			CK73FB1H222K	CHIP C 2200PF K		C120			CC73FCH1H150J	CHIP C 15PF J	
C31			CK73FF1E104Z	CHIP C 0.10UF Z		C121			CC73FCH1H100D	CHIP C 10PF D	
C32,33			CK73FB1H102K	CHIP C 1000PF K		C122			CC73FCH1H030C	CHIP C 3.0PF C	
C34			CK73FF1E104Z	CHIP C 0.10UF Z		C123			CC73FCH1H101J	CHIP C 100PF J	
C35			CC73FSL1H271J	CHIP C 270PF J		C124			CK73FF1E104Z	CHIP C 0.10UF Z	
C36,37			CK73FB1H102K	CHIP C 1000PF K		C125			CK73FB1H102K	CHIP C 1000PF K	
C38			CK73FF1E104Z	CHIP C 0.10UF Z		C126-134			CK73FB1H103K	CHIP C 0.010UF K	
C39,40			CK73FB1H102K	CHIP C 1000PF K		C135			CK73FF1E104Z	CHIP C 0.10UF Z	
C41			CK73FF1E104Z	CHIP C 0.10UF Z		C136			CK73FB1H471K	CHIP C 470PF K	
C42,43			CC73FCH1H100D	CHIP C 10PF D		C137			CC73FCH1H100D	CHIP C 10PF D	
C44			CK73FF1E104Z	CHIP C 0.10UF Z		C138-141			CK73FB1H103K	CHIP C 0.010UF K	
C45,46			CK73FB1H102K	CHIP C 1000PF K		C142			CC73FCH1H100D	CHIP C 10PF D	
C47			CK73FF1E104Z	CHIP C 0.10UF Z		C143,144			CK73FB1H103K	CHIP C 0.010UF K	
C48			CC73FSL1H121J	CHIP C 120PF J		C145			CC73FCH1H100D	CHIP C 10PF D	
C49,50			CK73FB1H102K	CHIP C 1000PF K		C146-148			CK73FB1H103K	CHIP C 0.010UF K	
C51			CK73FF1E104Z	CHIP C 0.10UF Z		C149			CC73FCH1H200J	CHIP C 20PF J	
C52,53			CK73FB1H102K	CHIP C 1000PF K		C150			CK73FB1H103K	CHIP C 0.010UF K	
C54			CK73FF1E104Z	CHIP C 0.10UF Z		C151			CK73FB1H471K	CHIP C 470PF K	
C55			CC73FCH1H820J	CHIP C 82PF J		C152,153			CK73FB1H103K	CHIP C 0.010UF K	
C56,57			CK73FB1H102K	CHIP C 1000PF K		C154			CC73FCH1H270J	CHIP C 27PF J	
C58			CK73FF1E104Z	CHIP C 0.10UF Z		C155,156			CK73FB1H103K	CHIP C 0.010UF K	
C59,60			CK73FB1H102K	CHIP C 1000PF K		C157-159			CK73FF1E104Z	CHIP C 0.10UF Z	
C61			CK73FF1E104Z	CHIP C 0.10UF Z		C162			CC73FCH1H100D	CHIP C 10PF D	
C62,63			CC73FCH1H040C	CHIP C 4.0PF C		C163			CK73FF1E104Z	CHIP C 0.10UF Z	
C64			CK73FF1E104Z	CHIP C 0.10UF Z		C164			CK73FB1H103K	CHIP C 0.010UF K	
C65,66			CK73FB1H102K	CHIP C 1000PF K		C165			CK73FF1C474Z	CHIP C 0.47UF Z	
C67			CK73FF1E104Z	CHIP C 0.10UF Z		C166-168			CK73FF1E104Z	CHIP C 0.10UF Z	
C68			CC73FCH1H680J	CHIP C 68PF J		C169			CK73FB1H103K	CHIP C 0.010UF K	
C69			CK73FB1H391K	CHIP C 390PF K		C170			CK73FB1H471K	CHIP C 470PF K	
C70			CC73FSL1H151J	CHIP C 150PF J		C171-173			CK73FB1H103K	CHIP C 0.010UF K	
C71			CK73FF1E104Z	CHIP C 0.10UF Z		C174			CE04EW1A101M	ELECTRO 100UF 10WV	
C72,73			CK73FB1H102K	CHIP C 1000PF K		C175,176			CK73FB1H103K	CHIP C 0.010UF K	
C74			CK73FF1E104Z	CHIP C 0.10UF Z		C177,178			CE04EW1C100M	ELECTRO 10UF 16WV	
C75			CC73FCH1H330J	CHIP C 33PF J		C179			CC73FSL1H121J	CHIP C 120PF J	
C76,77			CC73FSL1H221J	CHIP C 220PF J		C180			CC73FCH1H390J	CHIP C 39PF J	
C78			CK73FF1E104Z	CHIP C 0.10UF Z		C181			CK73FF1H473Z	CHIP C 0.047UF Z	
C79,80			CK73FB1H102K	CHIP C 1000PF K		C182			CC73FCH1H100D	CHIP C 10PF D	
C81			CK73FF1E104Z	CHIP C 0.10UF Z		C183			CK73FB1H471K	CHIP C 470PF K	
C89			CC73FCH1H020C	CHIP C 2.0PF C		C184-191			CK73FB1H103K	CHIP C 0.010UF K	
C90-92			CK73FF1E104Z	CHIP C 0.10UF Z		C192			CC73FCH1H010C	CHIP C 1.0PF C	
C93			CK73FB1H103K	CHIP C 0.010UF K		C193			CC73FCH1H050C	CHIP C 5.0PF C	
C94			CC73FCH1H060D	CHIP C 6.0PF D		C194			CK73FF1E104Z	CHIP C 0.10UF Z	
C95			CC73FCH1H180J	CHIP C 18PF J		C195			CK73FB1H103K	CHIP C 0.010UF K	
C96-98			CK73FB1H103K	CHIP C 0.010UF K		C196,197			CC73FUJ1H080D	CHIP C 8.0PF D	
C99			CC73FCH1H220J	CHIP C 22PF J		C198			CK73FB1H103K	CHIP C 0.010UF K	
C100			CC73FCH1H010C	CHIP C 1.0PF C		C199			CC73FCH1H010C	CHIP C 1.0PF C	
C101			CK73FB1H103K	CHIP C 0.010UF K		C200			CK73FB1H103K	CHIP C 0.010UF K	
C102,103			CK73FF1E104Z	CHIP C 0.10UF Z		C201			CC73FCH1H200J	CHIP C 20PF J	
C104			CC73FCH1H680J	CHIP C 68PF J		C202			CC73FUJ1H080D	CHIP C 8.0PF D	
C105			CC73FSL1H151J	CHIP C 150PF J		C203			CC73FCH1H0R5C	CHIP C 0.5PF C	
C106			CC73FCH1H680J	CHIP C 68PF J		C204			CC73FUJ1H080D	CHIP C 8.0PF D	
C107			CK73FF1E104Z	CHIP C 0.10UF Z		C205,206			CK73FB1H103K	CHIP C 0.010UF K	
C108			CK73FB1H103K	CHIP C 0.010UF K		C207			CK73FB1E104K	CHIP C 0.10UF K	
C109			CC73FCH1H050C	CHIP C 5.0PF C		C208-213			CK73FB1H103K	CHIP C 0.010UF K	
C110			CC73FCH1H010C	CHIP C 1.0PF C		C215,216			CK73FB1H103K	CHIP C 0.010UF K	
C111			CK73FF1E104Z	CHIP C 0.10UF Z		C217			CK73FB1H471K	CHIP C 470PF K	
C112			CC73FCH1H100D	CHIP C 10PF D		C218-220			CK73FB1H103K	CHIP C 0.010UF K	
C113			CC73FCH1H020C	CHIP C 2.0PF C		C221			CK73FB1H332K	CHIP C 3300PF K	
C114-118			CK73FB1H103K	CHIP C 0.010UF K		C222			CK73FF1E104Z	CHIP C 0.10UF Z	
C119			CC73FCH1H020C	CHIP C 2.0PF C		C223			CK73FB1E104K	CHIP C 0.10UF K	

## PARTS LIST

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

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C224			CK73FB1H103K	CHIP C 0.010UF K		C349			CK73FB1H102K	CHIP C 1000PF K	
C225			CK73FF1E104Z	CHIP C 0.10UF Z		C350,351			CK73FB1H103K	CHIP C 0.010UF K	
C226			CK73FB1H103K	CHIP C 0.010UF K		C352			CE04EW1C470M	ELECTRO 47UF 16WV	
C236-239			CK73FF1E104Z	CHIP C 0.10UF Z		C353			CK73FF1E104Z	CHIP C 0.10UF Z	
C240			CE04EW1C100M	ELECTRO 10UF 16WV		C354			CK73FB1H103K	CHIP C 0.010UF K	
C241-242			CK73FF1E104Z	CHIP C 0.10UF Z		C355			CE04EW1C101M	ELECTRO 100UF 16WV	
C243			CE04EW1C100M	ELECTRO 10UF 16WV		C356			CE04EW1C470M	ELECTRO 47UF 16WV	
C244			CK73FF1E104Z	CHIP C 0.10UF Z		C357			CK73FB1H103K	CHIP C 0.010UF K	
C245			CC73FCH1H050C	CHIP C 5.0PF C		C358			CE04EW1E4R7M	ELECTRO 4.7UF 25WV	
C246,247			CK73FB1H103K	CHIP C 0.010UF K		C359			CE04EW1C471M	ELECTRO 470UF 16WV	
C248			CE04EW1C101M	ELECTRO 100UF 16WV		C360,361			CK73FB1H103K	CHIP C 0.010UF K	
C249			CK73FB1H103K	CHIP C 0.010UF K		C362			CK73FB1H102K	CHIP C 1000PF K	
C250			CK73FF1C105Z	CHIP C 1.0UF Z		C364			CK73FF1E104Z	CHIP C 0.10UF Z	
C251,252			CK73FB1H103K	CHIP C 0.010UF K		C365			CE04EW1C100M	ELECTRO 10UF 16WV	
C253			CE04EW1E4R7M	ELECTRO 4.7UF 25WV		C366			CE04EW1C220M	ELECTRO 22UF 16WV	
C254			CK73FB1H103K	CHIP C 0.010UF K		C367			CK73FF1E104Z	CHIP C 0.10UF Z	
C255			CK73FF1C105Z	CHIP C 1.0UF Z		C369			CE04EW1C331M	ELECTRO 330UF 16WV	
C256			CK73FB1H103K	CHIP C 0.010UF K		C370			C92-0005-05	CHIP-TAN 2.2UF 6.3WV	
C257			CE04EW1C100M	ELECTRO 10UF 16WV		C371			CC73FCH1H101J	CHIP C 100PF J	
C258			CE04EW1H4R7M	ELECTRO 4.7UF 50WV		C372			CK73FF1E104Z	CHIP C 0.10UF Z	
C259			CE04EW1HR22M	ELECTRO 0.22UF 50WV		C377-379			CK73FB1H102K	CHIP C 1000PF K	
C260			CE04EW1H010M	ELECTRO 1.0UF 50WV		C380			CK73FF1E104Z	CHIP C 0.10UF Z	
C261			CE04EW1H4R7M	ELECTRO 4.7UF 50WV		C381,382			CK73FB1H102K	CHIP C 1000PF K	
C262,263			CK73FB1H103K	CHIP C 0.010UF K		C383,384			CK73FB1E104K	CHIP C 0.10UF K	
C265,266			CC73FCH1H101J	CHIP C 100PF J		C385			CK73FF1E104Z	CHIP C 0.10UF Z	
C267			CK73FB1H103K	CHIP C 0.010UF K		C386-389			CK73FB1H102K	CHIP C 1000PF K	
C268			CE04EW1C470M	ELECTRO 47UF 16WV		C390			CK73EB1H104K	CHIP C 0.10UF K	
C269			CC73FCH1H101J	CHIP C 100PF J		C391-394			CK73FB1H102K	CHIP C 1000PF K	
C270			CK73FB1H222K	CHIP C 2200PF K		C397			C92-0003-05	CHIP-TAN 0.47UF 25WV	
C271			CK73FB1H332K	CHIP C 3300PF K		C398			CK73FF1E104Z	CHIP C 0.10UF Z	
C272			CE04EW1C470M	ELECTRO 47UF 16WV		C399			CC73FCH1H470J	CHIP C 47PF J	
C273			CC73FCH1H101J	CHIP C 100PF J		C400			CK73FB1H103K	CHIP C 0.010UF K	
C274,275			CK73FB1H103K	CHIP C 0.010UF K		C407			C92-0004-05	CHIP-TAN 1.0UF 16WV	
C276			CE04EW1C470M	ELECTRO 47UF 16WV		C408			CK73FB1H103K	CHIP C 0.010UF K	
C277			CK73FB1H103K	CHIP C 0.010UF K		C409			CC73FCH1H100D	CHIP C 10PF D	
C285			CK73FB1H103K	CHIP C 0.010UF K		C410			CC73FCH1H020C	CHIP C 2.0PF C	
C286			CK73FB1H222K	CHIP C 2200PF K		C411			CC73FCH1H060D	CHIP C 6.0PF D	
C287			CK73FB1H103K	CHIP C 0.010UF K		C412			CK73FB1E104K	CHIP C 0.10UF K	
C288			CK73FB1H102K	CHIP C 1000PF K		C413,414			CK73FB1H103K	CHIP C 0.010UF K	
C289,290			CK73FB1H103K	CHIP C 0.010UF K		C415,416			CC73FCH1H100D	CHIP C 10PF D	
C291			CK73FB1H102K	CHIP C 1000PF K		C417			CE04EW1C330M	ELECTRO 33UF 16WV	
C293-295			CK73FB1H103K	CHIP C 0.010UF K		C418			CK73FF1C105Z	CHIP C 1.0UF Z	
C296			CE04EW1C221M	ELECTRO 220UF 16WV		C419			CE04NW1H2R2M	ELECTRO 2.2UF 50WV	
C297			CK73FB1H103K	CHIP C 0.010UF K		C420,421			CE04EW1C220M	ELECTRO 22UF 16WV	
C298-302			CK73FB1H102K	CHIP C 1000PF K		C422,423			CK73FB1H333K	CHIP C 0.033UF K	
C303			CK73FB1H122K	CHIP C 1200PF K		C424			CK73FB1E104K	CHIP C 0.10UF K	
C304			CE04EW1HR22M	ELECTRO 0.22UF 50WV		C425-430			CC73FSL1H471J	CHIP C 470PF J	
C305			CK73FF1E104Z	CHIP C 0.10UF Z		C431			C92-0004-05	CHIP-TAN 1.0UF 16WV	
C307			CC73FCH1H101J	CHIP C 100PF J		C450-455			CK73FB1H102K	CHIP C 1000PF K	
C308,309			CK73FB1H103K	CHIP C 0.010UF K		C458			CK73FF1E104Z	CHIP C 0.10UF Z	
C310			CC73FCH1H470J	CHIP C 47PF J		C459			CC73FCH1H040C	CHIP C 4.0PF C	
C311			CC73FCH1H360J	CHIP C 36PF J		C460,461			CC73FCH1H220J	CHIP C 22PF J	
C312			CK73FB1H103K	CHIP C 0.010UF K		C464			C92-0004-05	CHIP-TAN 1.0UF 16WV	
C313			CE04EW1E4R7M	ELECTRO 4.7UF 25WV		C500			CK73FB1H103K	CHIP C 0.010UF K	
C314			CK73FB1H102K	CHIP C 1000PF K		C501			CC73FCH1H390J	CHIP C 39PF J	
C315			CK73FB1H103K	CHIP C 0.010UF K		C502			CK73FB1H103K	CHIP C 0.010UF K	
C316			CK73FF1E104Z	CHIP C 0.10UF Z		C503			CE04EW1C100M	ELECTRO 10UF 16WV	
C335,336			CK73FF1C105Z	CHIP C 1.0UF Z		C504			CC73FSL1H151J	CHIP C 150PF J	
C342			CK73FB1E104K	CHIP C 0.10UF K		C505			CC73FCH1H390J	CHIP C 39PF J	
C345,346			CK73FB1H103K	CHIP C 0.010UF K		C506			CC73FCH1H100D	CHIP C 10PF D	

## PARTS LIST

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

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C507			CK73FB1H103K	CHIP C 0.010UF K		C595			C92-0007-05	CHIP-TAN 2.2UF 20WV	
C508			CC73FCH1H050C	CHIP C 5.0PF C		C596			CK73FB1H102K	CHIP C 1000PF K	
C509,510			CK73FB1H103K	CHIP C 0.010UF K		C597			CC73FSL1H181J	CHIP C 180PF J	
C511			CK73FB1H102K	CHIP C 1000PF K		C598			CC73FCH1H100D	CHIP C 10PF D	
C512,513			CK73FB1H103K	CHIP C 0.010UF K		C599			CC73FSL1H221J	CHIP C 220PF J	
C514			CK73FB1H102K	CHIP C 1000PF K		C600			CC73FCH1H220J	CHIP C 22PF J	
C515			CK73FB1H103K	CHIP C 0.010UF K		C601			CC73FSL1H151J	CHIP C 150PF J	
C516			C92-0536-05	CHIP-TAN 10UF 10WV		C602			CK73FF1E104Z	CHIP C 0.10UF Z	
C517			CK73FB1H103K	CHIP C 0.010UF K		C603,604			CK73FB1H103K	CHIP C 0.010UF K	
C518,519			CC73FCH1H150J	CHIP C 15PF J		C605			CC73FCH1H101J	CHIP C 100PF J	
C520			CK73FB1H103K	CHIP C 0.010UF K		C606			CC73FCH1H330J	CHIP C 33PF J	
C521			CE04EW1A221M	ELECTRO 220UF 10WV		C607			CC73FCH1H470J	CHIP C 47PF J	
C522			CK73FB1H103K	CHIP C 0.010UF K		C608			CC73FSL1H151J	CHIP C 150PF J	
C523			CK73FB1H333K	CHIP C 0.033UF K		C609			CC73FCH1H560J	CHIP C 56PF J	
C524,525			C92-0004-05	CHIP-TAN 1.0UF 16WV		C610			CC73FCH1H101J	CHIP C 100PF J	
C526			CE04EW1A101M	ELECTRO 100UF 10WV		C611			CC73FCH1H270J	CHIP C 27PF J	
C527			CK73FB1H103K	CHIP C 0.010UF K		C612			CC73FSL1H121J	CHIP C 120PF J	
C529			CK73FB1H103K	CHIP C 0.010UF K		C613			CC73FCH1H820J	CHIP C 82PF J	
C530			C92-0003-05	CHIP-TAN 0.47UF 25WV		C614			CC73FCH1H680J	CHIP C 68PF J	
C531			CE04EW1A221M	ELECTRO 220UF 10WV		C615-617			CK73FB1H103K	CHIP C 0.010UF K	
C532-534			CK73FB1H102K	CHIP C 1000PF K		C618			CK73FF1E104Z	CHIP C 0.10UF Z	
C535			CC73FCH1H101J	CHIP C 100PF J		C619-621			CK73FB1H103K	CHIP C 0.010UF K	
C536-538			CC73FCH1H070D	CHIP C 7.0PF D		C622			CC73FCH1H0R5C	CHIP C 0.5PF C	
C539			CK73FB1H102K	CHIP C 1000PF K		C623,624			CC73FCH1H060D	CHIP C 6.0PF D	
C540			CC73FCH1H120J	CHIP C 12PF J		C625,626			CK73FB1H102K	CHIP C 1000PF K	
C541			CC73FCH1H180J	CHIP C 18PF J		C627			CK73FB1H103K	CHIP C 0.010UF K	
C542			CK73FB1H102K	CHIP C 1000PF K		C628			CK73FB1H102K	CHIP C 1000PF K	
C543			CC73FCH1H010C	CHIP C 1.0PF C		C629			CK73FB1H103K	CHIP C 0.010UF K	
C544-548			CK73FB1H102K	CHIP C 1000PF K		C630			CC73FCH1H101J	CHIP C 100PF J	
C549			CC73FCH1H330J	CHIP C 33PF J		C631			CC73FCH1H050C	CHIP C 5.0PF C	
C550			CC73FCH1H080D	CHIP C 8.0PF D		C632			CC73FCH1H0R5C	CHIP C 0.5PF C	
C551			CC73FCH1H680J	CHIP C 68PF J		C633			CC73FCH1H100D	CHIP C 10PF D	
C552			CK73FF1C105Z	CHIP C 1.0UF Z		C634			CC73FCH1H0R5C	CHIP C 0.5PF C	
C553,554			CK73FB1H103K	CHIP C 0.010UF K		C635			CC73FCH1H050C	CHIP C 5.0PF C	
C555,556			CC73FCH1H270J	CHIP C 27PF J		C637-641			CK73FB1H103K	CHIP C 0.010UF K	
C557			CC73FCH1H470J	CHIP C 47PF J		C642			CC73FCH1H101J	CHIP C 100PF J	
C558			CC73FCH1H270J	CHIP C 27PF J		C643			CC73FSL1H471J	CHIP C 470PF J	
C559			CK73FB1H103K	CHIP C 0.010UF K		C644			CK73FB1H103K	CHIP C 0.010UF K	
C560,561			CC73FCH1H270J	CHIP C 27PF J		C645			CC73FCH1H101J	CHIP C 100PF J	
C562,563			CK73FB1H103K	CHIP C 0.010UF K		C646,647			CK73FB1H103K	CHIP C 0.010UF K	
C564,565			CC73FCH1H270J	CHIP C 27PF J		C648			CC73FCH1H020C	CHIP C 2.0PF C	
C566-568			CK73FB1H103K	CHIP C 0.010UF K		C649			CC73FCH1H030C	CHIP C 3.0PF C	
C569			C92-0007-05	CHIP-TAN 2.2UF 20WV		C650			CC73FCH1H020C	CHIP C 2.0PF C	
C570			CK73FB1H102K	CHIP C 1000PF K		C651			CC73FCH1H1R5C	CHIP C 1.5PF C	
C571			CC73FSL1H181J	CHIP C 180PF J		C652,653			CC73FCH1H270J	CHIP C 27PF J	
C572			CC73FCH1H100D	CHIP C 10PF D		C654			CK73FB1H103K	CHIP C 0.010UF K	
C573			CC73FSL1H221J	CHIP C 220PF J		C655			CE04EW1A221M	ELECTRO 220UF 10WV	
C574			CC73FCH1H220J	CHIP C 22PF J		C656			CK73FB1H103K	CHIP C 0.010UF K	
C575			CC73FSL1H151J	CHIP C 150PF J		C657			CE04EW1C470M	ELECTRO 47UF 16WV	
C576,577			CK73FB1H103K	CHIP C 0.010UF K		C658			CK73FB1H103K	CHIP C 0.010UF K	
C578			CK73FF1E104Z	CHIP C 0.10UF Z		C659,660			C92-0004-05	CHIP-TAN 1.0UF 16WV	
C579			CK73FB1H103K	CHIP C 0.010UF K		C661			CK73FB1H103K	CHIP C 0.010UF K	
C580			C92-0516-05	CHIP-TAN 4.7UF 16WV		C662			CE04EW1C471M	ELECTRO 470UF 16WV	
C581-585			CK73FB1H103K	CHIP C 0.010UF K		C663			CE04EW1A221M	ELECTRO 220UF 10WV	
C586			CK73FB1H471K	CHIP C 470PF K		C664			CK73FB1H103K	CHIP C 0.010UF K	
C587			CC73FCH1H220J	CHIP C 22PF J		C665			CC73FCH1H470J	CHIP C 47PF J	
C588			CK73FB1H471K	CHIP C 470PF K		C666			CC73FCH1H100D	CHIP C 10PF D	
C589			CK73FB1H103K	CHIP C 0.010UF K		C667,668			CK73FB1H102K	CHIP C 1000PF K	
C590,591			CC73FCH1H270J	CHIP C 27PF J		C669-671			CC73FCH1H120J	CHIP C 12PF J	
C592-594			CK73FB1H103K	CHIP C 0.010UF K		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	Ref. No.	Address	New parts	Parts No.	Description	Destination
C674			CC73FCH1H050C	CHIP C 5.0PF C		C818,819			CC73FCH1H470J	CHIP C 47PF J	
C675			CC73FCH1H270J	CHIP C 27PF J		C900-903			CK73EF1C105Z	CHIP C 1.0UF Z	
C677			CC73FCH1H100D	CHIP C 10PF D		C904			CK73FB1H103K	CHIP C 0.010UF K	
C678,679			CK73FB1H102K	CHIP C 1000PF K		C905			CE04NW1C470M	ELECTRO 47UF 16WV	
C680-682			CC73FCH1H120J	CHIP C 12PF J		C906-913			CK73FB1H102K	CHIP C 1000PF K	
C683,684			CK73FB1H102K	CHIP C 1000PF K		TC1,2			C05-0344-05	TRIMMER CAPACITOR (30PF)	E.E2,E3
C685			CC73FCH1H050C	CHIP C 5.0PF C		TC500			C05-0344-05	TRIMMER CAPACITOR (30PF)	
C686			CC73FCH1H240J	CHIP C 24PF J		TC502-504			C05-0345-05	TRIMMER CAPACITOR (10PF)	
C687			CK73FB1H102K	CHIP C 1000PF K					E18-0254-05	SOCKET (CN20)	
C688			CC73FCH1H100D	CHIP C 10PF D					E04-0154-05	RF COAXIAL CABLE RECEPTACLE	
C689			C92-0001-05	CHIP C 0.1UF 35WV		CN1,2			E40-0211-05	PIN CONNECTOR FOR INSIDE (2P)	
C690			CK73FB1H102K	CHIP C 1000PF K		CN3,4			E04-0154-05	RF COAXIAL CABLE RECEPTACLE	
C691,692			CC73FCH1H080D	CHIP C 8.0PF D		CN5			E04-0154-05	RF COAXIAL CABLE RECEPTACLE	
C693			CC73FCH1H120J	CHIP C 12PF J		CN7			E04-0154-05	RF COAXIAL CABLE RECEPTACLE	
C694,695			CK73FB1H102K	CHIP C 1000PF K		CN8,9			E40-5059-05	PIN CONNECTOR FOR INSIDE (5P)	
C696			CC73FCH1H100D	CHIP C 10PF D		CN10			E04-0154-05	RF COAXIAL CABLE RECEPTACLE	
C697			CK73FB1H103K	CHIP C 0.010UF K		CN11			E40-5764-05	PIN CONNECTOR FOR INSIDE (16P)	
C698-700			CK73FB1H102K	CHIP C 1000PF K		CN12			E40-3238-05	PIN CONNECTOR FOR INSIDE (3P)	
C701			CK73FB1H472K	CHIP C 4700PF K		CN14			E40-3238-05	PIN CONNECTOR FOR INSIDE (3P)	
C702			CK73FB1H103K	CHIP C 0.010UF K		CN15			E40-5764-05	PIN CONNECTOR FOR INSIDE (16P)	
C703-705			CC73FCH1H100D	CHIP C 10PF D		CN16			E40-5765-05	PIN CONNECTOR FOR INSIDE (8P)	
C706,707			CC73FCH1H010C	CHIP C 1.0PF C		CN17			E40-5747-05	PIN ASSY SOCKET (11P)	
C708,709			CC73FCH1H070D	CHIP C 7.0PF D		CN18			E40-5797-05	PIN CONNECTOR FOR INSIDE (26P)	
C710			CC73FCH1H010C	CHIP C 1.0PF C		CN19,20			E40-5487-05	PIN CONNECTOR FOR INSIDE (2P)	
C711-714			CK73FB1H102K	CHIP C 1000PF K		CN21			E40-3237-05	PIN CONNECTOR FOR INSIDE (2P)	
C715			CK73FB1H103K	CHIP C 0.010UF K		CN500			E40-5764-05	PIN CONNECTOR FOR INSIDE (16P)	
C716			CC73FSL1H221J	CHIP C 220PF J		CN501			E04-0154-05	RF COAXIAL CABLE RECEPTACLE	
C718-722			CC73FSL1H221J	CHIP C 220PF J		CN502			E40-3237-05	PIN CONNECTOR FOR INSIDE (2P)	
C724			CC73FSL1H221J	CHIP C 220PF J		CN503			E04-0154-05	RF COAXIAL CABLE RECEPTACLE	
C725			CK73FB1H103K	CHIP C 0.010UF K		J1			E06-0752-05	DIN SOCKET (7P)	
C755			CC73FCH1H030C	CHIP C 3.0PF C		J2			E56-0408-05	DIN SOCKET (13P)	
C756			CE04EW1A101M	ELECTRO 100UF 10WV		J3			E11-0414-05	PHONE JACK (3.5D)	
C758			CK73FB1H102K	CHIP C 1000PF K		J4			E11-0455-05	PHONE JACK (3.5D)	
C759			CK73FF1C105Z	CHIP C 1.0UF Z		J5			E11-0438-05	PHONE JACK	
C760,761			CC73FCH1H0R5C	CHIP C 0.5PF C		J900			E58-0435-05	SUB SOCKET	
C762			CK73FB1H102K	CHIP C 1000PF K		W1			E37-0651-05	LEAD WIRE WITH CONNECTOR (NB)	
C763			CK73FB1H103K	CHIP C 0.010UF K		W2			E37-0649-05	LEAD WIRE WITH PLUG (L02)	
C764			CK73FB1H102K	CHIP C 1000PF K		W3			E37-0650-05	LEAD WIRE WITH PLUG (L01)	
C766-768			CK73FB1H102K	CHIP C 1000PF K		W4			E37-0652-15	LEAD WIRE WITH CONNECTOR (CAR)	
C769-772			CC73FSL1H221J	CHIP C 220PF J		W5			E37-0653-05	LEAD WIRE WITH CONNECTOR (FMM)	
C773			CK73FB1H103K	CHIP C 0.010UF K		W6			E37-0654-05	LEAD WIRE WITH CONNECTOR (AF)	
C774			CC73FCH1H050C	CHIP C 5.0PF C		W450			E37-0655-05	LEAD WIRE WITH CONNECTOR (VOL)	
C775			CC73FCH1H330J	CHIP C 33PF J		A500,501			F10-2062-04	SHIELDING CASE (DDS1)	
C776			CC73FCH1H680J	CHIP C 68PF J		A502			F10-2092-04	SHIELDING CASE (VCO2)	
C777			CC73ECH1H202J	CHIP C 2000PF J		A503			F11-1086-14	SHIELDING COVER (VCO2)	
C778-785			CC73FCH1H470J	CHIP C 47PF J		A505			F10-2209-04	SHIELDING CASE (VCO1)	
C786			CC73FCH1H150J	CHIP C 15PF J		A506			F10-2208-04	SHIELDING COVER (VCO1)	
C787,788			CK73FB1E104K	CHIP C 0.10UF K		F1			F53-0055-05	FUSE (0.8A)	
C800			CK73FB1H103K	CHIP C 0.010UF K		A504			G13-1549-04	CUSHION (VCO2)	
C801			CC73FCH1H070D	CHIP C 7.0PF D		A507			G13-1550-04	CUSHION (VCO1)	
C802,803			CK73FB1H103K	CHIP C 0.010UF K		-			J30-0545-05	SPACER (XF1)	
C804			C92-0003-05	CHIP-TAN 0.47UF 25WV		-			J30-0564-05	SPACER (XF2)	
C805-807			CK73FB1H103K	CHIP C 0.010UF K		-			J32-0761-04	BOSS (OPTION FILTER)	
C808			C92-0003-05	CHIP-TAN 0.47UF 25WV		CD1			L79-1013-05	TUNING COIL (455KHZ)	
C809			CK73FB1H103K	CHIP C 0.010UF K		CF1			L72-0372-05	CERAMIC FILTER (455KHZ)	
C810			CK73FB1H102K	CHIP C 1000PF K		CF500,501			L72-0351-05	CERAMIC FILTER (8.830MHZ)	
C811			CC73FCH1H100D	CHIP C 10PF D		L1			L40-2215-48	SMALL FIXED INDUCTOR (220UH)	
C812-815			CK73FB1H103K	CHIP C 0.010UF K		L2			L40-6891-15	SMALL FIXED INDUCTOR	E.E2,E3
C816			C92-0004-05	CHIP-TAN 1.0UF 16WV							
C817			CE04EW1A101M	ELECTRO 100UF 10WV							

## PARTS LIST

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

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
L3			L40-3991-15	SMALL FIXED INDUCTOR	E.E2.E3	L92			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L4			L40-2785-48	SMALL FIXED INDUCTOR (270NH)		L97-100			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L5			L33-0695-05	CHOKE COIL (1MH)		L101			L40-1095-48	SMALL FIXED INDUCTOR (1UH)	
L6			L40-4795-48	SMALL FIXED INDUCTOR (4.7UH)		L105,106			L33-0695-05	CHOKE COIL (1MH)	
L7,8			L33-0695-05	CHOKE COIL (1MH)		L107			L40-1001-12	SMALL FIXED INDUCTOR	
L9-11			L40-6891-14	SMALL FIXED INDUCTOR		L108			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L12,13			L40-1892-14	SMALL FIXED INDUCTOR		L109			L40-1011-15	SMALL FIXED INDUCTOR	
L14			L40-5691-14	SMALL FIXED INDUCTOR		L110			L40-2285-48	SMALL FIXED INDUCTOR (220NH)	
L15,16			L40-1292-14	SMALL FIXED INDUCTOR		L111			L34-4408-05	COIL	
L17			L40-3391-14	SMALL FIXED INDUCTOR		L112			L40-1095-48	SMALL FIXED INDUCTOR (1UH)	
L18,19			L40-1092-14	SMALL FIXED INDUCTOR		L113			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L20-22			L34-4262-05	COIL		L115			L40-1021-12	SMALL FIXED INDUCTOR	
L23			L40-2792-14	SMALL FIXED INDUCTOR		L500			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L24,25			L40-3382-14	SMALL FIXED INDUCTOR		L501			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L26			L40-2292-14	SMALL FIXED INDUCTOR		L502			L40-4795-48	SMALL FIXED INDUCTOR (4.7UH)	
L27,28			L40-2282-14	SMALL FIXED INDUCTOR		L503,504			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L29-31			L34-4289-05	COIL		L505			L40-4705-48	SMALL FIXED INDUCTOR	
L32			L40-1292-14	SMALL FIXED INDUCTOR		L506			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L33,34			L40-2282-14	SMALL FIXED INDUCTOR		L507			L34-4424-05	COIL	
L35			L40-1292-14	SMALL FIXED INDUCTOR		L508			L34-2353-05	COIL	
L36,37			L40-2282-14	SMALL FIXED INDUCTOR		L509			L40-2285-48	SMALL FIXED INDUCTOR (220NH)	
L41			L40-1015-48	SMALL FIXED INDUCTOR (100UH)		L510,511			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L42,43			L40-2785-48	SMALL FIXED INDUCTOR (270NH)		L512,513			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L44			L19-0324-05	TROIDAL COIL		L514-516			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L45			L34-4413-05	COIL		L517,518			L40-2205-48	SMALL FIXED INDUCTOR (22UH)	
L46-48			L40-1015-48	SMALL FIXED INDUCTOR (100UH)		L519			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L49			L40-1085-48	SMALL FIXED INDUCTOR (100NH)		L520			L40-1095-48	SMALL FIXED INDUCTOR (1UH)	
L50,51			L34-4408-05	COIL		L521			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L52			L33-0695-05	CHOKE COIL (1MH)		L522			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L53			L40-1015-48	SMALL FIXED INDUCTOR (100UH)		L523,524			L40-2205-48	SMALL FIXED INDUCTOR (2.2UH)	
L54			L34-4415-05	COIL		L525			L40-3305-48	SMALL FIXED INDUCTOR (33UH)	
L55			L34-0943-05	COIL		L526,527			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L56			L34-4467-05	COIL		L528			L40-5695-48	SMALL FIXED INDUCTOR (5.6UH)	
L57			L39-1255-05	TROIDAL COIL		L529,530			L34-4408-05	COIL	
L58			L40-5695-48	SMALL FIXED INDUCTOR (5.6UH)		L531			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L59			L40-4705-48	SMALL FIXED INDUCTOR (47UH)		L532			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L60			L40-1015-48	SMALL FIXED INDUCTOR (100UH)		L533			L34-4408-05	COIL	
L61			L34-4465-05	COIL		L534			L34-4399-05	COIL	
L62			L40-1005-48	SMALL FIXED INDUCTOR (10UH)		L535			L34-4408-05	COIL	
L63			L40-3395-48	SMALL FIXED INDUCTOR (3.3UH)		L536			L40-3395-48	SMALL FIXED INDUCTOR (3.3UH)	
L64			L19-0324-05	TROIDAL COIL		L537			L40-1595-48	SMALL FIXED INDUCTOR (1.5UH)	
L65			L39-1255-05	TROIDAL COIL		L538			L40-2295-48	SMALL FIXED INDUCTOR (2.2UH)	
L66			L19-0324-05	TROIDAL COIL		L539			L40-1005-48	SMALL FIXED INDUCTOR (10UH)	
L67			L34-4264-05	COIL		L540			L40-1015-48	SMALL FIXED INDUCTOR (100UH)	
L68			L34-4265-05	COIL		L542			L34-4424-05	COIL	
L69			L34-0943-05	COIL		L543			L34-2360-05	COIL	
L70			L34-4469-05	COIL		L544			L34-4424-05	COIL	
L71			L34-4465-05	COIL		L545			L34-2359-05	COIL	
L72			L34-4333-05	COIL		L546			L34-4424-05	COIL	
L73			L39-1255-05	TROIDAL COIL		L547			L34-2358-05	COIL	
L74-76			L34-4333-05	COIL		L548,549			L40-6885-48	SMALL FIXED INDUCTOR (680NH)	
L77			L19-0324-05	TROIDAL COIL		L550			L40-3385-48	SMALL FIXED INDUCTOR (330NH)	
L78-81			L40-1015-48	SMALL FIXED INDUCTOR (100UH)		L551			L40-1005-48	SMALL FIXED INDUCTOR (100NH)	
L85			L40-1005-48	SMALL FIXED INDUCTOR (10UH)		L561			L40-4705-48	SMALL FIXED INDUCTOR (47UH)	
L86			L19-0324-05	TROIDAL COIL		L563			L40-2285-48	SMALL FIXED INDUCTOR (220NH)	
L87			L40-1015-48	SMALL FIXED INDUCTOR (100UH)		L564			L40-1011-12	SMALL FIXED INDUCTOR	
L88			L40-1021-13	SMALL FIXED INDUCTOR		L800			L40-8285-48	SMALL FIXED INDUCTOR (820NH)	
L89			L33-0695-05	CHOKE COIL (1MH)		L801			L40-4705-48	SMALL FIXED INDUCTOR (47UH)	
L90			L40-1015-48	SMALL FIXED INDUCTOR (100UH)		L802			L34-4466-05	COIL	
L91			L40-1005-48	SMALL FIXED INDUCTOR (10UH)		L803			L34-4483-05	COIL	

## PARTS LIST

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

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
L804			L33-0695-05	CHOKE COIL (1MH)		R57-59			RK73FB2A222J	CHIP R 2.2K J 1/10W	
L900			L40-4705-48	SMALL FIXED INDUCTOR (47UH)		R60.61			RK73FB2A682J	CHIP R 6.8K J 1/10W	
L901-904			L40-1015-48	SMALL FIXED INDUCTOR (100UH)		R62			RK73FB2A151J	CHIP R 150 J 1/10W	
X1			L77-1302-15	CRYSTAL RESONATOR (8.375MHZ)		R63			RK73FB2A103J	CHIP R 10K J 1/10W	
X500			L77-1521-15	CRYSTAL RESONATOR (20.0MHZ)		R64			RK73FB2A471J	CHIP R 470 J 1/10W	
XF1			L71-0401-05	MCF (73.05MHZ)		R65			RK73FB2A101J	CHIP R 100 J 1/10W	
XF2			L71-0266-05	MCF (8.83MHZ)		R66			RK73FB2A222J	CHIP R 2.2K J 1/10W	
XF3			L71-0208-15	CRYSTAL FILTER (8.83MHZ)		R67			RK73FB2A333J	CHIP R 33K J 1/10W	
			N30-2604-46	PAN HEAD MACHIN SCREW (L01)		R68			RK73FB2A104J	CHIP R 100K J 1/10W	
			N30-3003-46	PAN HEAD MACHIN SCREW (OP FIL)		R69			RK73FB2A271J	CHIP R 270 J 1/10W	
			N87-2606-46	PAN HEAD MACHIN SCREW (VCO)		R70			RK73FB2A104J	CHIP R 100K J 1/10W	
CP500-503			R90-0721-05	MULTI-COMP 4.7K X 16		R71			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R1			RK73EB2B560J	CHIP R 56 J 1/8W		R72			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R2			RK73EB2B471J	CHIP R 470 J 1/8W		R73			R92-0670-05	CHIP R 0 OHM	
R3			RK73FB2A472J	CHIP R 4.7K J 1/10W		R74			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R4			RK73FB2A101J	CHIP R 100 J 1/10W		R75			RK73FB2A471J	CHIP R 470 J 1/10W	
R5			RK73FB2A222J	CHIP R 2.2K J 1/10W		R76			RK73FB2A101J	CHIP R 100 J 1/10W	
R6			RK73FB2A472J	CHIP R 4.7K J 1/10W		R77			RK73FB2A151J	CHIP R 150 J 1/10W	
R7			RK73FB2A181J	CHIP R 180 J 1/10W		R78			RK73FB2A101J	CHIP R 100 J 1/10W	
R8			RK73FB2A471J	CHIP R 470 J 1/10W		R79			RK73FB2A823J	CHIP R 82K J 1/10W	
R9			RK73FB2A560J	CHIP R 56 J 1/10W		R80			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R11			RK73EB2B121J	CHIP R 120 J 1/8W		R81.82			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R12			RK73FB2A330J	CHIP R 33 J 1/10W		R83			RK73FB2A273J	CHIP R 27K J 1/10W	
R13			RK73EB2B121J	CHIP R 120 J 1/8W		R84			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R14			RK73FB2A330J	CHIP R 33 J 1/10W		R85			RK73FB2A103J	CHIP R 10K J 1/10W	
R15			RK73EB2B121J	CHIP R 120 J 1/8W		R86.87			RK73FB2A101J	CHIP R 100 J 1/10W	
R16			RK73FB2A330J	CHIP R 33 J 1/10W		R88			RK73FB2A331J	CHIP R 330 J 1/10W	
R17			RK73EB2B121J	CHIP R 120 J 1/8W		R89			RK73FB2A270J	CHIP R 27 J 1/10W	
R18			RK73FB2A330J	CHIP R 33 J 1/10W		R90			RK73FB2A220J	CHIP R 22 J 1/10W	
R19			RK73EB2B121J	CHIP R 120 J 1/8W		R91			RK73FB2A103J	CHIP R 10K J 1/10W	
R20			RK73FB2A330J	CHIP R 33 J 1/10W		R92			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R21			RK73EB2B121J	CHIP R 120 J 1/8W		R93			RK73FB2A152J	CHIP R 1.5K J 1/10W	
R22			RK73FB2A330J	CHIP R 33 J 1/10W		R94			RK73FB2A220J	CHIP R 22 J 1/10W	
R23			RK73EB2B121J	CHIP R 120 J 1/8W		R95			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R24			RK73FB2A330J	CHIP R 33 J 1/10W		R96			RK73FB2A471J	CHIP R 470 J 1/10W	
R25			RK73EB2B121J	CHIP R 120 J 1/8W		R97			R92-0670-05	CHIP R 0 OHM	
R26			RK73FB2A330J	CHIP R 33 J 1/10W		R98			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R27			RK73EB2B121J	CHIP R 120 J 1/8W		R99			RK73FB2A221J	CHIP R 220 J 1/10W	
R28			RK73FB2A330J	CHIP R 33 J 1/10W		R100			RK73FB2A100J	CHIP R 10 J 1/10W	
R29			RK73EB2B121J	CHIP R 120 J 1/8W		R101			RK73FB2A562J	CHIP R 5.6K J 1/10W	
R32			RK73FB2A472J	CHIP R 4.7K J 1/10W		R102			RK73FB2A223J	CHIP R 22K J 1/10W	
R33			RK73FB2A100J	CHIP R 10 J 1/10W		R103			RK73FB2A221J	CHIP R 220 J 1/10W	
R34			RK73FB2A681J	CHIP R 680 J 1/10W		R104			RK73FB2A470J	CHIP R 47 J 1/10W	
R35			RK73FB2A562J	CHIP R 5.6K J 1/10W		R105			RK73FB2A391J	CHIP R 390 J 1/10W	
R36.37			RK73FB2A100J	CHIP R 10 J 1/10W		R107			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R38.39			RK73FB2A122J	CHIP R 1.2K J 1/10W		R108			RK73FB2A152J	CHIP R 1.5K J 1/10W	
R40			RK73FB2A101J	CHIP R 100 J 1/10W		R109			RK73FB2A101J	CHIP R 100 J 1/10W	
R41			RK73FB2A122J	CHIP R 1.2K J 1/10W		R111			RK73FB2A473J	CHIP R 47K J 1/10W	
R42			RK73FB2A474J	CHIP R 470K J 1/10W		R112			RK73FB2A560J	CHIP R 56 J 1/10W	
R43			RK73FB2A101J	CHIP R 100 J 1/10W		R113			RK73FB2A471J	CHIP R 470 J 1/10W	
R44			RK73FB2A223J	CHIP R 22K J 1/10W		R114			RK73FB2A680J	CHIP R 68 J 1/10W	
R45.46			RK73FB2A101J	CHIP R 100 J 1/10W		R115			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R47.48			RK73FB2A100J	CHIP R 10 J 1/10W		R116-118			RK73FB2A101J	CHIP R 100 J 1/10W	
R49			RK73FB2A471J	CHIP R 470 J 1/10W		R120			RK73FB2A223J	CHIP R 22K J 1/10W	
R50			RK73FB2A122J	CHIP R 1.2K J 1/10W		R121			RK73FB2A473J	CHIP R 47K J 1/10W	
R52			RK73FB2A681J	CHIP R 680 J 1/10W		R122			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R54			R92-0670-05	CHIP R 0 OHM		R123			RK73FB2A330J	CHIP R 33 J 1/10W	
R55			RK73FB2A821J	CHIP R 820 J 1/10W		R124.125			RK73FB2A473J	CHIP R 47K J 1/10W	
R56			R92-0670-05	CHIP R 0 OHM		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	Ref. No.	Address	New parts	Parts No.	Description	Destination
R129			RK73FB2A102J	CHIP R 1.0K J 1/10W		R201			RK73FB2A101J	CHIP R 100 J 1/10W	
R130			RK73FB2A221J	CHIP R 220 J 1/10W		R202-205			RK73FB2A103J	CHIP R 10K J 1/10W	
R131			RK73FB2A152J	CHIP R 1.5K J 1/10W		R207			RK73FB2A103J	CHIP R 10K J 1/10W	
R132			RK73FB2A330J	CHIP R 33 J 1/10W		R208,209			RK73FB2A101J	CHIP R 100 J 1/10W	
R133			RK73FB2A102J	CHIP R 1.0K J 1/10W		R210			RK73FB2A104J	CHIP R 100K J 1/10W	
R134			RK73FB2A101J	CHIP R 100 J 1/10W		R211			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R135			RK73FB2A222J	CHIP R 2.2K J 1/10W		R212			RK73FB2A473J	CHIP R 47K J 1/10W	
R136			RK73FB2A101J	CHIP R 100 J 1/10W		R213			RK73FB2A224J	CHIP R 220K J 1/10W	
R137			RK73FB2A151J	CHIP R 150 J 1/10W		R214			RK73FB2A331J	CHIP R 330 J 1/10W	
R138			RK73FB2A223J	CHIP R 22K J 1/10W		R215			RK73FB2A184J	CHIP R 180K J 1/10W	
R139			RK73FB2A104J	CHIP R 100K J 1/10W		R216			RK73FB2A393J	CHIP R 39K J 1/10W	
R140			RK73FB2A393J	CHIP R 39K J 1/10W		R217			RK73FB2A104J	CHIP R 100K J 1/10W	
R141			RK73FB2A473J	CHIP R 47K J 1/10W		R218			RK73FB2A224J	CHIP R 220K J 1/10W	
R142			RK73FB2A331J	CHIP R 330 J 1/10W		R219			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R143			RK73FB2A151J	CHIP R 150 J 1/10W		R220			RK73FB2A823J	CHIP R 82K J 1/10W	
R144			RK73FB2A680J	CHIP R 68 J 1/10W		R221,222			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R145			RK73FB2A330J	CHIP R 33 J 1/10W		R223			RK73FB2A331J	CHIP R 330 J 1/10W	
R146			RK73FB2A151J	CHIP R 150 J 1/10W		R224			RK73FB2A104J	CHIP R 100K J 1/10W	
R147			RK73FB2A223J	CHIP R 22K J 1/10W		R226-229			RK73FB2A103J	CHIP R 10K J 1/10W	
R148			RK73FB2A331J	CHIP R 330 J 1/10W		R230			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R149			RK73FB2A330J	CHIP R 33 J 1/10W		R231			RK73FB2A474J	CHIP R 470K J 1/10W	
R150			R92-0670-05	CHIP R 0 OHM		R233			RK73FB2A224J	CHIP R 220K J 1/10W	
R151			RK73FB2A330J	CHIP R 33 J 1/10W		R234			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R152			RK73FB2A390J	CHIP R 39 J 1/10W		R237			RK73FB2A391J	CHIP R 390 J 1/10W	
R153			R92-0670-05	CHIP R 0 OHM		R238			RK73FB2A101J	CHIP R 100 J 1/10W	
R154			RK73FB2A333J	CHIP R 33K J 1/10W		R239			RK73FB2A104J	CHIP R 100K J 1/10W	
R155			RK73FB2A102J	CHIP R 1.0K J 1/10W		R240			R92-0670-05	CHIP R 0 OHM	
R156			RK73FB2A330J	CHIP R 33 J 1/10W		R241			RK73FB2A104J	CHIP R 100K J 1/10W	
R157			RK73FB2A332J	CHIP R 3.3K J 1/10W		R242			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R158			RK73FB2A331J	CHIP R 330 J 1/10W		R243			RK73FB2A272J	CHIP R 2.7K J 1/10W	
R159			RK73FB2A330J	CHIP R 33 J 1/10W		R244,245			RK73FB2A223J	CHIP R 22K J 1/10W	
R160			RK73FB2A102J	CHIP R 1.0K J 1/10W		R246,247			RK73FB2A104J	CHIP R 100K J 1/10W	
R161			RK73FB2A681J	CHIP R 680 J 1/10W		R248			RK73FB2A473J	CHIP R 47K J 1/10W	
R162			RK73FB2A473J	CHIP R 47K J 1/10W		R249,250			RK73FB2A104J	CHIP R 100K J 1/10W	
R163			R92-0670-05	CHIP R 0 OHM		R251			RK73FB2A224J	CHIP R 220K J 1/10W	
R164			RK73FB2A331J	CHIP R 330 J 1/10W		R252			RK73FB2A104J	CHIP R 100K J 1/10W	
R165			RK73FB2A151J	CHIP R 150 J 1/10W		R253			RK73FB2A471J	CHIP R 470 J 1/10W	
R166			RK73FB2A680J	CHIP R 68 J 1/10W		R254			RK73FB2A103J	CHIP R 10K J 1/10W	
R167			RK73FB2A101J	CHIP R 100 J 1/10W		R255			RK73FB2A273J	CHIP R 27K J 1/10W	
R168			RK73FB2A561J	CHIP R 560 J 1/10W		R256			R92-0670-05	CHIP R 0 OHM	
R169			RK73FB2A681J	CHIP R 680 J 1/10W		R260			RK73FB2A103J	CHIP R 10K J 1/10W	
R170			RK73FB2A330J	CHIP R 33 J 1/10W		R261			RK73FB2A181J	CHIP R 180 J 1/10W	
R171			RK73FB2A333J	CHIP R 33K J 1/10W		R266			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R172			RK73FB2A102J	CHIP R 1.0K J 1/10W		R271			RK73FB2A101J	CHIP R 100 J 1/10W	
R173			RK73FB2A472J	CHIP R 4.7K J 1/10W		R275			RK73FB2A563J	CHIP R 56K J 1/10W	
R174-176			RK73FB2A103J	CHIP R 10K J 1/10W		R278			RK73FB2A153J	CHIP R 15K J 1/10W	
R177			RK73FB2A101J	CHIP R 100 J 1/10W		R279			R92-0670-05	CHIP R 0 OHM	
R178			RK73FB2A472J	CHIP R 4.7K J 1/10W		R280			RK73FB2A221J	CHIP R 220 J 1/10W	
R179			RK73FB2A223J	CHIP R 22K J 1/10W		R281			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R180			RK73FB2A273J	CHIP R 27K J 1/10W		R282			RK73FB2A272J	CHIP R 2.7K J 1/10W	
R181			RK73FB2A101J	CHIP R 100 J 1/10W		R283			RK73FB2A101J	CHIP R 100 J 1/10W	
R182			RK73FB2A682J	CHIP R 6.8K J 1/10W		R284			RK73FB2A151J	CHIP R 150 J 1/10W	
R191			RK73FB2A222J	CHIP R 2.2K J 1/10W		R285,286			RK73FB2A103J	CHIP R 10K J 1/10W	
R192			RK73FB2A102J	CHIP R 1.0K J 1/10W		R287			RK73FB2A224J	CHIP R 220K J 1/10W	
R193			RK73FB2A561J	CHIP R 560 J 1/10W		R288			R92-0670-05	CHIP R 0 OHM	
R194			RK73FB2A222J	CHIP R 2.2K J 1/10W		R289			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R195			RK73FB2A560J	CHIP R 56 J 1/10W		R290			RK73FB2A683J	CHIP R 68K J 1/10W	
R196-198			RK73FB2A330J	CHIP R 33 J 1/10W		R291			RK73FB2A103J	CHIP R 10K J 1/10W	
R199			RK73FB2A101J	CHIP R 100 J 1/10W		R292			RK73FB2A101J	CHIP R 100 J 1/10W	
R200			RK73FB2A820J	CHIP R 82 J 1/10W		R301			RK73FB2A470J	CHIP R 47 J 1/10W	

## PARTS LIST

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

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R317			RK73FB2A102J	CHIP R 1.0K J 1/10W		R420,421			RK73FB2A100J	CHIP R 10 J 1/10W	
R319			RK73FB2A102J	CHIP R 1.0K J 1/10W		R422			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R323			R92-0670-05	CHIP R 0 OHM		R423			RK73FB2A223J	CHIP R 22K J 1/10W	
R324			RK73FB2A103J	CHIP R 10K J 1/10W		R424			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R326			RK73FB2A103J	CHIP R 10K J 1/10W		R425			RK73FB2A333J	CHIP R 33K J 1/10W	
R327			RK73FB2A104J	CHIP R 100K J 1/10W		R426			RK73FB2A223J	CHIP R 22K J 1/10W	
R328,329			RK73FB2A222J	CHIP R 2.2K J 1/10W		R427			RK73FB2A124J	CHIP R 120K J 1/10W	
R330-333			RK73FB2A104J	CHIP R 100K J 1/10W		R428			RK73FB2A104J	CHIP R 100K J 1/10W	
R334			RK73FB2A101J	CHIP R 100 J 1/10W		R429			RK73FB2A273J	CHIP R 27K J 1/10W	
R335			RK73FB2A473J	CHIP R 47K J 1/10W		R430,431			R92-0150-05	JUMPER REST 0 OHM	
R336			RK73FB2A271J	CHIP R 270 J 1/10W		R432			RK73FB2A560J	CHIP R 56 J 1/10W	
R337			RK73FB2A102J	CHIP R 1.0K J 1/10W		R433,434			RK73FB2A103J	CHIP R 10K J 1/10W	
R338			R92-0670-05	CHIP R 0 OHM		R435			RK73FB2A563J	CHIP R 56K J 1/10W	
R339			RK73FB2A101J	CHIP R 100 J 1/10W		R436			RK73FB2A153J	CHIP R 15K J 1/10W	
R340			RK73FB2A103J	CHIP R 10K J 1/10W		R450-455			RK73FB2A101J	CHIP R 100 J 1/10W	
R341			RK73FB2A273J	CHIP R 27K J 1/10W		R456-461			RK73FB2A331J	CHIP R 330 J 1/10W	
R343			RK73FB2A472J	CHIP R 4.7K J 1/10W		R462			R92-0670-05	CHIP R 0 OHM	
R344			RK73FB2A103J	CHIP R 10K J 1/10W		R500			RK73FB2A103J	CHIP R 10K J 1/10W	
R345			RK73FB2A104J	CHIP R 100K J 1/10W		R501			RK73FB2A223J	CHIP R 22K J 1/10W	
R346,347			RK73FB2A4R7J	CHIP R 4.7 J 1/10W		R502			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R349			RK73FB2A183J	CHIP R 18K J 1/10W		R503			RD14CB2C101J	RD 100 J 1/6W	
R350			RK73FB2A222J	CHIP R 2.2K J 1/10W		R504			RD14CB2C100J	RD 10 J 1/6W	
R351			RK73FB2A103J	CHIP R 10K J 1/10W		R505,506			RK73FB2A473J	CHIP R 47K J 1/10W	
R352			RK73FB2A473J	CHIP R 47K J 1/10W		R507-508			RK73FB2A101J	CHIP R 100 J 1/10W	
R353			RK73FB2A334J	CHIP R 330K J 1/10W		R509			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R354			RK73FB2A224J	CHIP R 220K J 1/10W		R510			RK73FB2A681J	CHIP R 680 J 1/10W	
R355			RK73FB2A104J	CHIP R 100K J 1/10W		R511			RK73FB2A101J	CHIP R 100 J 1/10W	
R356,357			RK73FB2A102J	CHIP R 1.0K J 1/10W		R512			RK73FB2A471J	CHIP R 470 J 1/10W	
R358			RK73FB2A101J	CHIP R 100 J 1/10W		R513			RK73FB2A681J	CHIP R 680 J 1/10W	
R359			R92-0670-05	CHIP R 0 OHM		R514			RK73FB2A101J	CHIP R 100 J 1/10W	
R360			RK73FB2A183J	CHIP R 18K J 1/10W		R515			RK73FB2A471J	CHIP R 470 J 1/10W	
R361-364			RK73FB2A101J	CHIP R 100 J 1/10W		R516			RK73FB2A271J	CHIP R 270 J 1/10W	
R365			RK73FB2A681J	CHIP R 680 J 1/10W		R517			RK73FB2A184J	CHIP R 180K J 1/10W	
R366			RK73FB2A103J	CHIP R 10K J 1/10W		R518			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R367			RK73FB2A102J	CHIP R 1.0K J 1/10W		R519			RK73FB2A123J	CHIP R 12K J 1/10W	
R368			R92-0670-05	CHIP R 0 OHM		R520			RK73FB2A103J	CHIP R 10K J 1/10W	
R369			RK73FB2A103J	CHIP R 10K J 1/10W		R521			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R370			RK73FB2A564J	CHIP R 560K J 1/10W		R522			RK73FB2A392J	CHIP R 3.9K J 1/10W	
R371,372			RK73FB2A104J	CHIP R 100K J 1/10W		R523			RK73FB2A822J	CHIP R 8.2K J 1/10W	
R374			RK73FB2A104J	CHIP R 100K J 1/10W		R524			RK73FB2A684J	CHIP R 680K J 1/10W	
R375			RK73FB2A102J	CHIP R 1.0K J 1/10W		R525			RK73FB2A182J	CHIP R 1.8K J 1/10W	
R376			RK73FB2A681J	CHIP R 680 J 1/10W		R526			RK73FB2A333J	CHIP R 33K J 1/10W	
R378			RK73FB2A103J	CHIP R 10K J 1/10W		R527			RK73FB2A104J	CHIP R 100K J 1/10W	
R379-381			RK73FB2A104J	CHIP R 100K J 1/10W		R528			RK73FB2A220J	CHIP R 22 J 1/10W	
R382			RK73FB2A102J	CHIP R 1.0K J 1/10W		R529-531			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R403			RK73FB2A333J	CHIP R 33K J 1/10W		R532			RK73FB2A104J	CHIP R 100K J 1/10W	
R404			RK73FB2A104J	CHIP R 100K J 1/10W		R533			RK73FB2A331J	CHIP R 330 J 1/10W	
R405			RK73FB2A152J	CHIP R 1.5K J 1/10W		R534			RK73FB2A271J	CHIP R 270 J 1/10W	
R406			RK73FB2A122J	CHIP R 1.2K J 1/10W		R535,536			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R407			RK73FB2A821J	CHIP R 820 J 1/10W		R537			RK73FB2A560J	CHIP R 56 J 1/10W	
R408			RK73FB2A151J	CHIP R 150 J 1/10W		R538			RK73FB2A471J	CHIP R 470 J 1/10W	
R409			RK73FB2A182J	CHIP R 1.8K J 1/10W		R539			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R410			RK73FB2A392J	CHIP R 3.9K J 1/10W		R540			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R411			RK73FB2A104J	CHIP R 100K J 1/10W		R541			RK73FB2A331J	CHIP R 330 J 1/10W	
R412			RK73FB2A392J	CHIP R 3.9K J 1/10W		R542			RK73FB2A220J	CHIP R 22 J 1/10W	
R413			RK73FB2A101J	CHIP R 100 J 1/10W		R543			RK73FB2A101J	CHIP R 100 J 1/10W	
R415			RK73FB2A472J	CHIP R 4.7K J 1/10W		R547			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R416			R92-0670-05	CHIP R 0 OHM		R548,549			RK73FB2A561J	CHIP R 560 J 1/10W	
R417			RK73FB2A153J	CHIP R 15K J 1/10W		R550			RK73FB2A223J	CHIP R 22K J 1/10W	
R418			RK73FB2A101J	CHIP R 100 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	Ref. No.	Address	New parts	Parts No.	Description	Destination
R552			RK73FB2A101J	CHIP R 100 J 1/10W		R620			RK73FB2A471J	CHIP R 470 J 1/10W	
R553			RK73FB2A471J	CHIP R 470 J 1/10W		R621			RK73FB2A101J	CHIP R 100 J 1/10W	
R554			RK73FB2A103J	CHIP R 10K J 1/10W		R622,623			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R555			RK73FB2A153J	CHIP R 15K J 1/10W		R624			RK73FB2A101J	CHIP R 100 J 1/10W	
R556			RK73FB2A221J	CHIP R 220 J 1/10W		R625			RK73FB2A681J	CHIP R 680 J 1/10W	
R557			RK73FB2A101J	CHIP R 100 J 1/10W		R626			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R558			RK73FB2A102J	CHIP R 1.0K J 1/10W		R627			RK73FB2A183J	CHIP R 18K J 1/10W	
R559			RK73FB2A681J	CHIP R 680 J 1/10W		R628			RK73FB2A122J	CHIP R 1.2K J 1/10W	
R560			R92-0670-05	CHIP R 0 OHM		R629			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R561			RK73FB2A101J	CHIP R 100 J 1/10W		R630			RK73FB2A683J	CHIP R 68K J 1/10W	
R562			RK73FB2A332J	CHIP R 3.3K J 1/10W		R631			RK73FB2A182J	CHIP R 1.8K J 1/10W	
R563,564			RK73FB2A102J	CHIP R 1.0K J 1/10W		R632			RK73FB2A151J	CHIP R 150 J 1/10W	
R565			RK73FB2A221J	CHIP R 220 J 1/10W		R633			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R566			RK73FB2A101J	CHIP R 100 J 1/10W		R634			RK73FB2A221J	CHIP R 220 J 1/10W	
R567			RK73FB2A680J	CHIP R 68 J 1/10W		R639			RK73FB2A101J	CHIP R 100 J 1/10W	
R568			RK73FB2A821J	CHIP R 820 J 1/10W		R640			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R569			RK73FB2A680J	CHIP R 68 J 1/10W		R641			RK73FB2A271J	CHIP R 270 J 1/10W	
R570			RK73FB2A103J	CHIP R 10K J 1/10W		R642			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R571			RK73FB2A222J	CHIP R 2.2K J 1/10W		R643			RK73FB2A101J	CHIP R 100 J 1/10W	
R572			RK73FB2A331J	CHIP R 330 J 1/10W		R644			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R573,574			RK73FB2A101J	CHIP R 100 J 1/10W		R645			RK73FB2A271J	CHIP R 270 J 1/10W	
R575			RK73FB2A471J	CHIP R 470 J 1/10W		R646			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R576			RK73FB2A470J	CHIP R 47 J 1/10W		R647			RK73FB2A101J	CHIP R 100 J 1/10W	
R577			RK73FB2A220J	CHIP R 22 J 1/10W		R648			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R578			RK73FB2A222J	CHIP R 2.2K J 1/10W		R649			RK73FB2A271J	CHIP R 270 J 1/10W	
R579,580			RK73FB2A561J	CHIP R 560 J 1/10W		R650			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R581			RK73FB2A223J	CHIP R 22K J 1/10W		R651			RK73FB2A101J	CHIP R 100 J 1/10W	
R582			RK73FB2A103J	CHIP R 10K J 1/10W		R652			RK73FB2A471J	CHIP R 470 J 1/10W	
R583			RK73FB2A101J	CHIP R 100 J 1/10W		R653			RK73FB2A223J	CHIP R 22K J 1/10W	
R584			RK73FB2A471J	CHIP R 470 J 1/10W		R654			RK73FB2A103J	CHIP R 10K J 1/10W	
R585			RK73FB2A103J	CHIP R 10K J 1/10W		R655			RK73FB2A561J	CHIP R 560 J 1/10W	
R586			RK73FB2A153J	CHIP R 15K J 1/10W		R656,657			RK73FB2A330J	CHIP R 33 J 1/10W	
R587			RK73FB2A221J	CHIP R 220 J 1/10W		R658			RK73FB2A562J	CHIP R 5.6K J 1/10W	
R588			RK73FB2A101J	CHIP R 100 J 1/10W		R659			RK73FB2A103J	CHIP R 10K J 1/10W	
R589			RK73FB2A102J	CHIP R 1.0K J 1/10W		R660			RK73FB2A101J	CHIP R 100 J 1/10W	
R590			RK73FB2A681J	CHIP R 680 J 1/10W		R661			RK73FB2A221J	CHIP R 220 J 1/10W	
R591			R92-0670-05	CHIP R 0 OHM		R662			RK73FB2A471J	CHIP R 470 J 1/10W	
R592			RK73FB2A101J	CHIP R 100 J 1/10W		R663			RK73FB2A100J	CHIP R 10 J 1/10W	
R593			RK73FB2A391J	CHIP R 390 J 1/10W		R664			RK73FB2A471J	CHIP R 470 J 1/10W	
R594			RK73FB2A223J	CHIP R 22K J 1/10W		R665			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R595			RK73FB2A103J	CHIP R 10K J 1/10W		R666,667			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R596,597			RK73FB2A101J	CHIP R 100 J 1/10W		R668			RK73FB2A470J	CHIP R 47 J 1/10W	
R598			RK73FB2A471J	CHIP R 470 J 1/10W		R669			RK73FB2A471J	CHIP R 470 J 1/10W	
R599			RK73FB2A102J	CHIP R 1.0K J 1/10W		R671			RK73FB2A101J	CHIP R 100 J 1/10W	
R600,601			RK73FB2A103J	CHIP R 10K J 1/10W		R673-678			RK73FB2A101J	CHIP R 100 J 1/10W	
R602			RK73FB2A101J	CHIP R 100 J 1/10W		R696,697			RK73FB2A103J	CHIP R 10K J 1/10W	
R603			RK73FB2A471J	CHIP R 470 J 1/10W		R698			RK73FB2A152J	CHIP R 1.5K J 1/10W	
R604			RK73FB2A333J	CHIP R 33K J 1/10W		R699			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R605			RK73FB2A682J	CHIP R 6.8K J 1/10W		R700			R92-0670-05	CHIP R 0 OHM	
R606			RK73FB2A150J	CHIP R 15 J 1/10W		R701			RK73FB2A331J	CHIP R 330 J 1/10W	
R607			RK73FB2A221J	CHIP R 220 J 1/10W		R702			RK73FB2A180J	CHIP R 18 J 1/10W	
R608,609			RK73FB2A470J	CHIP R 47 J 1/10W		R703			RK73FB2A331J	CHIP R 330 J 1/10W	
R610			RK73FB2A471J	CHIP R 470 J 1/10W		R704			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R611-613			R92-0670-05	CHIP R 0 OHM		R705			RK73FB2A330J	CHIP R 33 J 1/10W	
R614			RK73FB2A101J	CHIP R 100 J 1/10W		R706			RK73FB2A393J	CHIP R 39K J 1/10W	
R615			RK73FB2A122J	CHIP R 1.2K J 1/10W		R707			RK73FB2A470J	CHIP R 47 J 1/10W	
R616			RK73FB2A331J	CHIP R 330 J 1/10W		R708			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R617			RK73FB2A101J	CHIP R 100 J 1/10W		R709			RK73FB2A103J	CHIP R 10K J 1/10W	
R618			RK73FB2A822J	CHIP R 8.2K J 1/10W		R710			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R619			RK73FB2A272J	CHIP R 2.7K J 1/10W		R711			RK73FB2A471J	CHIP R 470 J 1/10W	

# TS-570DG

## PARTS LIST

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

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R712			RK73FB2A330J	CHIP R 33 J 1/10W		D24			RN731H	DIODE	
R715			RK73FB2A101J	CHIP R 100 J 1/10W		D25			LFB01	DIODE	
R716			RK73FB2A682J	CHIP R 6.8K J 1/10W		D26			RN731H	DIODE	
R717			RK73FB2A102J	CHIP R 1.0K J 1/10W		D27			LFB01	DIODE	
R718			RK73FB2A331J	CHIP R 330 J 1/10W		D30			LFB01	DIODE	
R719			RK73FB2A220J	CHIP R 22 J 1/10W		D31			MA110	DIODE (or 1SS355)	
R720			RK73FB2A683J	CHIP R 68K J 1/10W		D32			LFB01	DIODE	
R721			RK73FB2A102J	CHIP R 1.0K J 1/10W		D33			DAP236K	DIODE	
R722-725			RK73FB2A331J	CHIP R 330 J 1/10W		D34			1SS312	DIODE	
R800			RK73FB2A221J	CHIP R 220 J 1/10W		D35-37			DAP236K	DIODE	
R801			RK73FB2A102J	CHIP R 1.0K J 1/10W		D38,39			LFB01	DIODE	
R802			RK73FB2A103J	CHIP R 10K J 1/10W		D40			DAP236K	DIODE	
R803			RK73FB2A102J	CHIP R 1.0K J 1/10W		D41			1SS312	DIODE	
R804			R92-0670-05	CHIP R 0 OHM		D42			DAP236K	DIODE	
R805			RK73FB2A223J	CHIP R 22K J 1/10W		D43			RN731H	DIODW	
R806			RK73FB2A333J	CHIP R 33K J 1/10W		D44			1SS312	DIODW	
R807			RK73FB2A683J	CHIP R 68K J 1/10W		D45			LFB01	DIODW	
R808,809			RK73FB2A103J	CHIP R 10K J 1/10W		D46,47			DAP236K	DIODW	
R810			RK73FB2A102J	CHIP R 1.0K J 1/10W		D48-50			MA110	DIODE (or 1SS355)	
R811			RK73FB2A152J	CHIP R 1.5K J 1/10W		D51			LFB01	DIODW	
R812			RK73FB2A333J	CHIP R 33K J 1/10W		D52			RN731H	DIODE	
R813			RK73FB2A221J	CHIP R 220 J 1/10W		D53,54			DAP236K	DIODE	
R814			RK73FB2A103J	CHIP R 10K J 1/10W		D55			LFB01	DIODE	
R815			RK73FB2A102J	CHIP R 1.0K J 1/10W		D56			RN739D	DIODE	
R816			RK73FB2A563J	CHIP R 56K J 1/10W		D57			B30-2001-05	LED	
R817			RK73FB2A101J	CHIP R 100 J 1/10W		D58			MA110	DIODE (or 1SS355)	
R818			RK73FB2A681J	CHIP R 680 J 1/10W		D61			LFB01	DIODE	
R819			RK73FB2A682J	CHIP R 6.8K J 1/10W		D62			RB751H	DIODE	
VR1			R12-6711-05	TRIMMING POT. 4.7K		D63			1SS226	DIODE	
VR2			R12-6707-05	TRIMMING POT. 1.0K		D64			02C26.2(Y)	DIODE	
VR3			R12-6717-05	TRIMMING POT. 47K		D68			LFB01	DIODE	
VR4,5			R12-6713-05	TRIMMING POT. 10K		D69			RB751H	DIODE	
VR8			R12-6740-05	TRIMMING POT. 10K		D71			RB751H	DIODE	
VR9			R12-6703-05	TRIMMING POT. 220		D73			02CZ3.3(Z)	ZENER	
VR450			R31-0615-15	VARIABLE R 100K x 2		D74			02CZ4.7(Y)	ZENER	
VR451,452			R31-0612-05	VARIABLE R 100K x 2		D75			MA110	DIODE (or 1SS355)	
K1			S51-1428-05	RELAY		D76			1SS226	DIODE	
K2			S51-1420-05	RELAY		D77			02C26.2(Y)	ZENER	
D1			LFB01	DIODE		D82			LFB01	DIODE	
D2			RLS245	DIODE		D85			MA110	DIODE (or 1SS355)	
D3,4			V08(G)	DIODE		D89-92			MA110	DIODE (or 1SS355)	
D5			RLS245	DIODE		D95			MA110	DIODE (or 1SS355)	
D6-8			RN731H	DIODE		D96			02CZ5.1(Y)	ZENER	
D9			LFB01	DIODE		D97			DAP236K	DIODE	
D10			RN731H	DIODE		D98			DAN202K	DIODE	
D11			LFB01	DIODE		D99,100			02CZ24(Y)	ZENER	
D12			RN731H	DIODE		D101,102			MA110	DIODE (or 1SS355)	
D13			LFB01	DIODE		D103,104			LFB01	DIODE	
D14			RN731H	DIODE		D500,501			1SV269	VARIABLE CAP	
D15			LFB01	DIODE		D502			RLS135	DIODE	
D16			RN731H	DIODE		D503			1SV269	VARIABLE CAP	
D17			LFB01	DIODE		D504			RLS135	DIODE	
D18			RN731H	DIODE		D505			1SV269	VARIABLE CAP	
D19			LFB01	DIODE		D506			RLS135	DIODE	
D20			RN731H	DIODE		D507			DAP202K	DIODE	
D21			LFB01	DIODE		D508,509			MA110	DIODE (or 1SS355)	
D22			RN731H	DIODE		D800			MA716	DIODE	
D23			LFB01	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	Ref. No.	Address	New parts	Parts No.	Description	Destination	
IC4			BU4066BCFV	IC (ANALOG SWITCH X4)		Q68,69			2SB1188(Q,R)	TRANSISTOR		
IC5			NJM2902M	IC (OP AMP X4)		Q70			DTC114EK	DIGITAL TRANSISTOR		
IC6			M62363FP	IC (8bit D/A CONVERTER)		Q71			DTC143EK	DIGITAL TRANSISTOR		
IC7			KCD10	HIC		Q72			FMG3A	TRANSISTOR		
IC8			LA4446	IC (AF POWER AMP)		Q73			DTA143EK	DIGITAL TRANSISTOR		
IC9			BU4066BCFV	IC (ANALOG SWITCH X4)		Q75-79			DTC114EK	DIGITAL TRANSISTOR		
IC11			TC9174F	IC (CMOS I/O EXTENSION)		Q80			DTC124EK	DIGITAL TRANSISTOR		
IC12			BU4066BCFV	IC (ANALOG SWITCH X4)		Q81			DTC114EK	DIGITAL TRANSISTOR		
IC13			NJM2904M	IC (OP AMP X2)		Q500-503			2SC2714(Y)	TRANSISTOR		
IC14			NUJ3718G	IC (20BIT SERIAL-PARA CHANGER)		Q504			2SC2412K(S)	TRANSISTOR		
IC15			KCD11	HIC		Q505-507			2SC3722K(R)	TRANSISTOR		
IC16			KCC11	HIC		Q508			DTC143TK	DIGITAL TRANSISTOR		
IC17			TC7S08F	IC (2CH AND GATE)		Q509			2SK1875(V)	FET		
IC500			MB86001PF	IC (PLL FREQUENCY SYNTHESIZER)		Q510,511			2SC2714(Y)	TRANSISTOR		
IC501,502			F71022	IC (DDS)		Q512			2SC2412K(S)	TRANSISTOR		
IC503,504			UPC1037GR	IC (BALANCED MODULATOR)		Q513			2SC2712(IGR)	TRANSISTOR		
IC505			UPC1686G	IC (MIX)		Q514-517			2SC2412K(S)	TRANSISTOR		
IC506			SN76514N	IC (MIXER)		Q518			2SC2712(IGR)	TRANSISTOR		
IC507			MB86001PF	IC (PLL FREQUENCY SYNTHESIZER)		Q519,520			2SC2412K(S)	TRANSISTOR		
IC508			BU4S66	IC (ANALOG SWITCH)		Q521,522			2SC2714(Y)	TRANSISTOR		
IC510			TC7S08F	IC (2CH AND GATE)		Q523			2SC2412K(S)	TRANSISTOR		
IC511			NJM78L08UA	IC (VOLTAGE REGULATOR/ +8V)		Q524-526			2SC3722K(R)	TRANSISTOR		
IC900			ADM232LAR	IC (RS-232C DRIVERS/RECEIVERS)		Q527			DTC114EK	DIGITAL TRANSISTOR		
Q1			DTA124EK	DIGITAL TRANSISTOR		Q528			2SK1875(V)	FET		
Q2			2SD1757K(S)	TRANSISTOR		Q529			DTC114EK	DIGITAL TRANSISTOR		
Q3			2SB1188(Q,R)	TRANSISTOR		Q530			2SK1875(V)	FET		
Q4			DTC143TK	DIGITAL TRANSISTOR		Q531			DTC114EK	DIGITAL TRANSISTOR		
Q5-8			2SK520(K44)	FET		Q532			2SK1875(V)	FET		
Q9			RU201	TRANSISTOR		Q533-535			2SC2714(Y)	TRANSISTOR		
Q10			2SK520(K43)	FET		Q543			2SC2714(Y)	TRANSISTOR		
Q11,12			3SK131(M)	FET		Q544			2SC2412K(R)	TRANSISTOR		
Q13			2SK520(K43)	FET		Q545,546			2SC2714(Y)	TRANSISTOR		
Q14,15			2SC2412K(S)	TRANSISTOR		Q800			2SC2714(Y)	TRANSISTOR		
Q16			2SC3357	TRANSISTOR		Q801			DTC114EK	DIGITAL TRANSISTOR		
Q17,18			2SK520(K44)	FET		Q802			2SC2714(Y)	TRANSISTOR		
Q20			DTA124EK	DIGITAL TRANSISTOR		Q803			2SC2412K(S)	TRANSISTOR		
Q21,22			2SC2412K(S)	TRANSISTOR		Q804			2SC2714(Y)	TRANSISTOR		
Q24			FMC2	TRANSISTOR		Q805			2SC2412K(S)	TRANSISTOR		
Q25			3SK131(M)	FET		Q806			2SC2714(Y)	TRANSISTOR		
Q26			DTA143EK	DIGITAL TRANSISTOR		Q807			DTA114EK	DIGITAL TRANSISTOR		
Q27			3SK131(M)	FET		TH1			157-502-53002	THERMISTOR (5K)		
Q28			3SK184(R)	FET		TH2			157-501-53009	THERMISTOR (500)		
Q29,30			3SK131(M)	FET		TH3			157-302-53008	THERMISTOR (3K)		
Q31			3SK184(R)	FET		TH4			157-102-53003	THERMISTOR (1K)		
Q35			2SC2954	TRANSISTOR		TH5			157-302-53008	THERMISTOR (3K)		
Q36			2SC2412K(S)	TRANSISTOR		TH6			157-102-53003	THERMISTOR (1K)		
Q37			DTC114EK	DIGITAL TRANSISTOR		TH7			157-103-55001	THERMISTOR (10K)		
Q38			2SC2412K(S)	TRANSISTOR		TH8			157-102-53003	THERMISTOR (1K)		
Q39			2SA1037K(R)	TRANSISTOR		<b>ENCODER (X59-4110-00)</b>						
Q40,41			2SC2412K(S)	TRANSISTOR		C1-3			CK73GB1H103K	CHIP C	0.010UF	K
Q42			2SB1188(Q,R)	TRANSISTOR		C4,5			CK73GB1H102K	CHIP C	1000PF	K
Q49			2SD1624(S)	TRANSISTOR		C6,7			CC73GCH1H101J	CHIP C	100PF	J
Q50			DTC114EK	DIGITAL TRANSISTOR		C8			C92-0040-05	CHIP C	47UF	16WV
Q51			DTC143TK	DIGITAL TRANSISTOR		CN1			E40-3239-05	PIN ASSY (4P)		
Q52			DTC124EK	DIGITAL TRANSISTOR		R1,2			RK73GB1J223J	CHIP R	22K	J 1/16W
Q57			DTC114EK	DIGITAL TRANSISTOR		R3,4			RK73GB1J103J	CHIP R	10K	J 1/16W
Q59			FMA5	TRANSISTOR								
Q61			FMA5	TRANSISTOR								
Q64			2SC2412K(S)	TRANSISTOR								
Q65-67			DTC114EK	DIGITAL TRANSISTOR								

# TS-570DG

## PARTS LIST

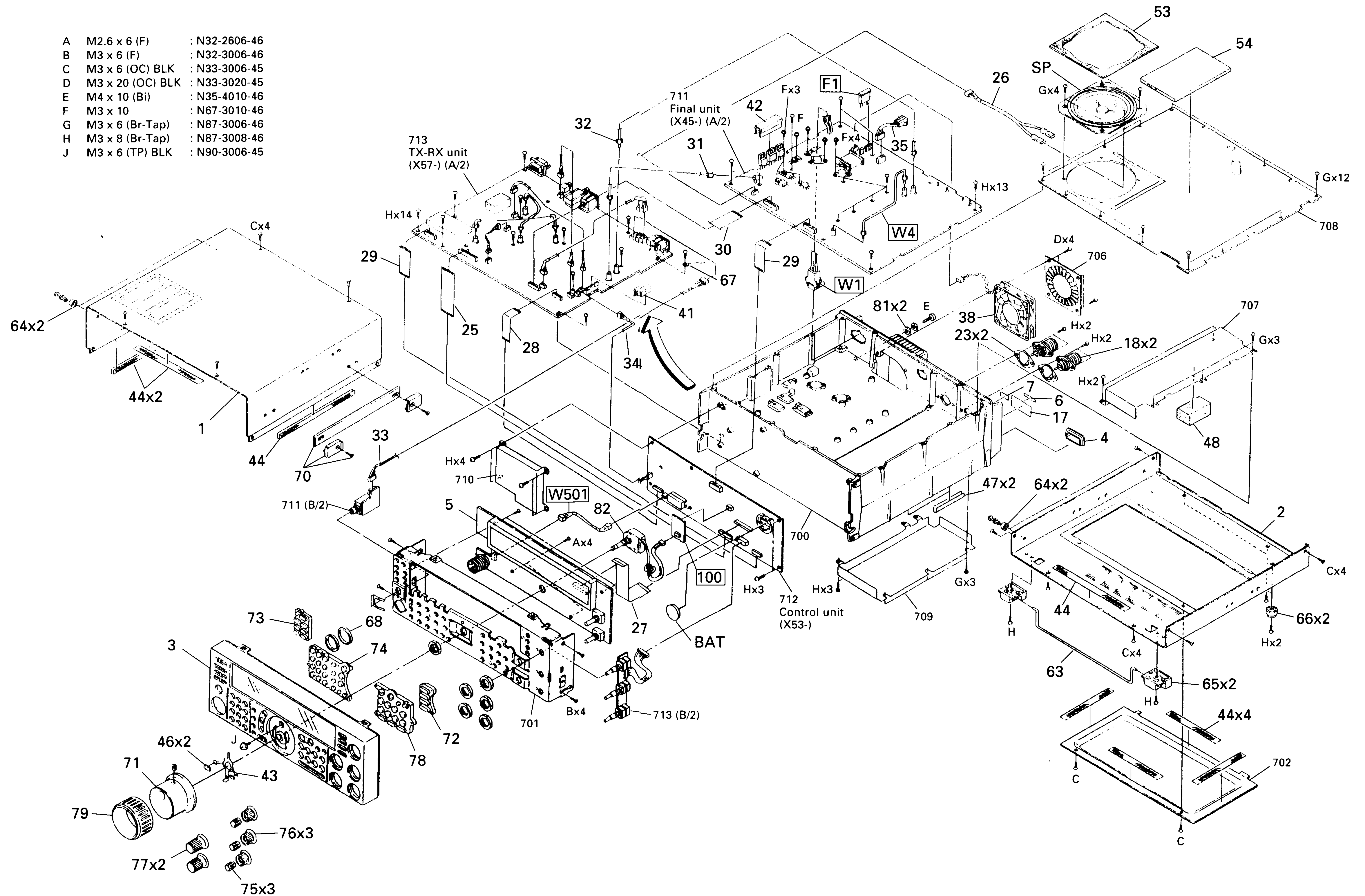
ENCODER (X59-4110-00)  
LCD ASSY (B38-0765-05)

Ref. No.	Address	New parts	Parts No.	Description	Destination	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							
<b>LCD ASSY (B38-0765-05)</b>											
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							
JI			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	PILOT 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)							

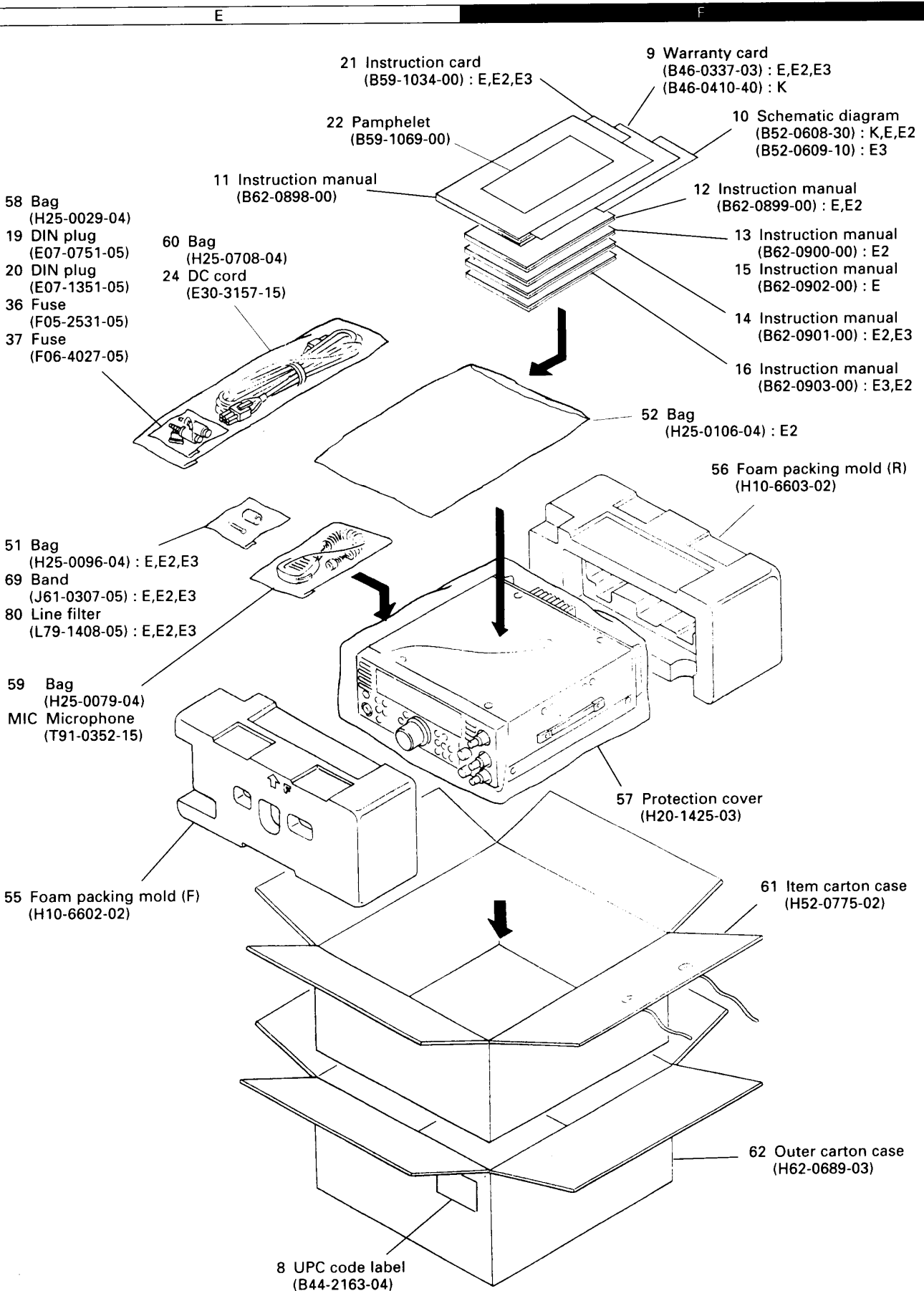
# TS-570DG TS-570DG

## 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 |



## PACKING



## 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.	

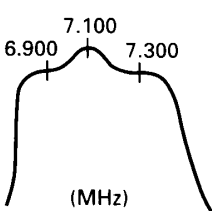


# TS-570DG

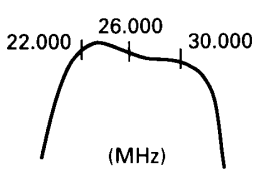
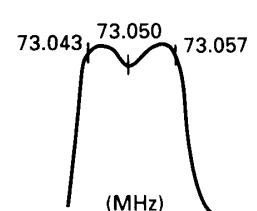
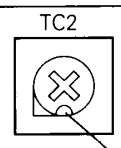
## ADJUSTMENT

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						RF V.M	CN503	TP504	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											Oscilloscope	CN501	TP504	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																CN502	CN502	TP504			Check	3.0~6.0V				
8. LO1 level	1) Display f. : 14.100MHz MODE : AM																					Check					0~+3dBm
	9. LO2 level																										Measurement condition : 50Ω terminated
10. CAR level																											1) Display f. : 14.100MHz MODE : AM

### 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
<p>• Writing data : After item 1 has been adjusted;</p> <p>1) Menu No. : 51</p> <p>2) [UP] or [DOWN] key : Push once time      Display "rEAdy" → "run" → "good" (If "nG" is displayed, enter data again.)</p> <p>3) [CLR] key : Push once time.</p>								
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	Rear panel	ANT	TX-RX (RF)	L20 L21 L22	Repeat adjustment 2 or 3 times until the level is maximized and the waveform becomes flat.	 <p>(MHz)</p>
	2) Display f. : 14.000MHz Spectrum analyzer setting Center f. : 14.000MHz Frequency span : 5MHz	Spectrum analyzer	TX-RX (RF)	CN7				

## 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.	 (MHz)
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.	 (MHz)
5. Trap initialize setting <b>E,E2,E3</b>	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 <b>E,E2,E3</b>	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  EXT.SP	TP801	TX-RX (PLL)	L802 L803	Voltage MIN	
	2) [NB] key : ON/OFF	Noise G.		ANT				
<ul style="list-style-type: none"> <li>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.</li> </ul>								
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) Menu 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	
<ul style="list-style-type: none"> <li>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.</li> </ul>								

## 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  Frequency      MODE 550kHz          AM 1.550MHz        AM 1.800MHz        LSB 3.550MHz        LSB 7.100MHz        LSB 10.100MHz       USB 14.100MHz       USB 21.100MHz       USB 24.800MHz       USB 28.800MHz       USB 29.800MHz       FM	SSG	Rear panel	ANT					10dB or more  0.63V/8Ω or more  Sensitivity down 5~15dB.  12dB SINAD or more measurement
		AF V.M Oscilloscope Distortion meter DM. SP		EXT.SP					
		SSG output	SSG MOD	DEV				S/N measurement	
		-77dBm	1kHz	60%					
		-77dBm	1kHz	60%					
		-119dBm	OFF	OFF				MAX sensitivity measurement	
		-119dBm	OFF	OFF					
		-119dBm	OFF	OFF					
		-119dBm	OFF	OFF		←		PRE AMP : OFF	
		-119dBm	OFF	OFF					
-123dBm	OFF	OFF							
-123dBm	OFF	OFF							
-119dBm	1kHz	3kHz		←		SINAD sensitivity			
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	TX-RX (RF)	CN17	Front panel	CH1 key	Hold down [CH1], and talk into the microphone.	Can be recorded for about 15 seconds.	
		Microphone	Front panel	MIC			Press the [CH1] key again.	The recorded voice must be played back.	

### Transmitter Section

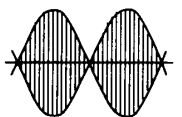
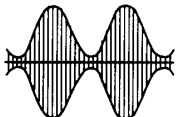
Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. ALC voltage	1) Menu No. : 01 (14.200MHz USB) Transmit	DC V.M	TX-RX (RF)	TP1	Front panel	UP or DOWN key	2.7V	±0.03V
• Writing data : After item 1 has been adjusted; 1) Menu No. : 51 2) [UP] or [DOWN] key : Push once time      Display "rEAdy" → "run" → "good" (If "nG" is displayed, enter data again.) 3) [CLR] key : Push once time. 4) [SPLIT] key : Push once time.								
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	

# TS-570DG

## 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 counterclockwise (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 <b>K,M2,E,E3</b>	±5W <b>K,M2,E,E3</b>	
	3.5MHz						2) Menu No. : 24 (3.500MHz USB) Transmit	10W <b>E2</b>	±1.0W <b>E2</b>
	7.0MHz						3) Menu No. : 25 (7.00MHz USB) Transmit	100W	±5W
	10MHz						4) Menu No. : 26 (10.100MHz USB) Transmit		Note : Skip 14MHz

## ADJUSTMENT

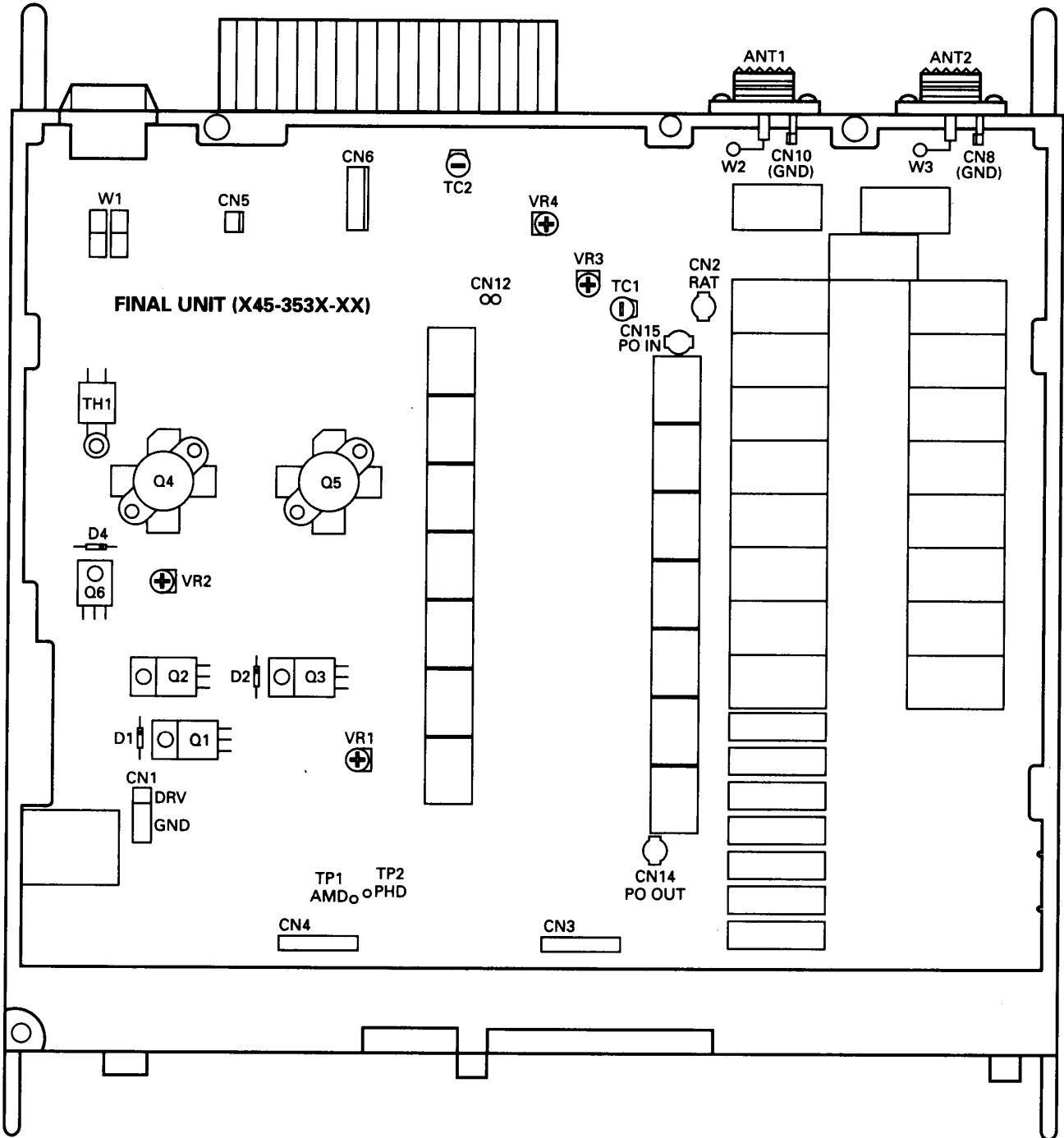
Item	Condition	Measurement			Adjustment			Specifications/Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
8. TGC 18MHz	5) Menu No. : 28 (18.068MHz USB) Transmit	Power meter	Rear panel	ANT	Front panel	UP or DOWN key	100W	±5W
21MHz	6) Menu No. : 29 (21.000MHz USB) Transmit							
25MHz	7) Menu 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 150Ω dummy Through type power meter 150Ω dummy	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								Front panel
17. SWR meter (SWR : 3.0)	1) Menu No. : 47 (1.840MHz CW) Transmit				1 push				
<p>• 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.</p>									
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	ANT	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		Final	TP1		TC2			Turn the VC to the point where the waveform on the oscilloscope changes from high to low.
21. MIC sensitivity SSB FM	1) Display f. : 14.200MHz MODE : USB AG : 1kHz/5mV Transmit 2) AG : 1kHz/30mV <b>E,E2,E3</b> 1kHz/50mV <b>K,M2</b> Transmit	Power meter AG VTVM	Rear panel Front panel	ANT MIC			Check	90W or more  DEV : ±2.5~3.75kHz <b>K,M2</b> DEV : ±2.25~3.75kHz <b>E,E2,E3</b>  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)

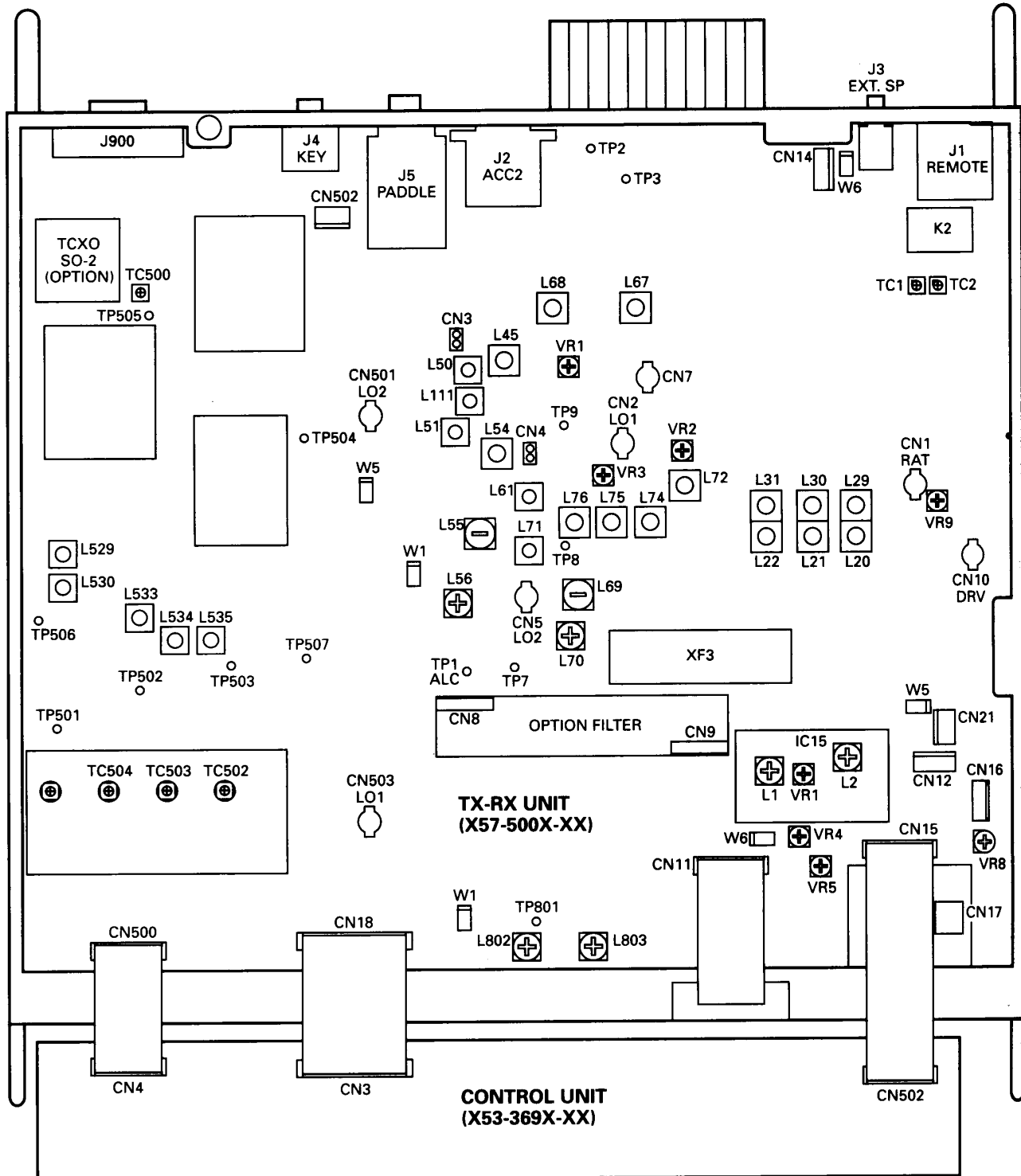


- VR1,2 : Final idling current
- VR3 : Power frequency characteristic
- VR4 : AT amplitude
- TC1 : NULL
- TC2 : AT phase



## 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