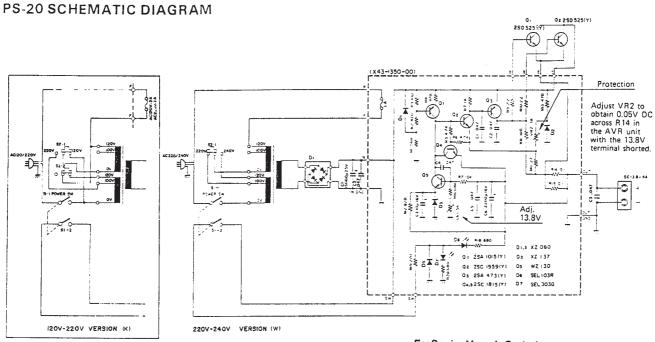
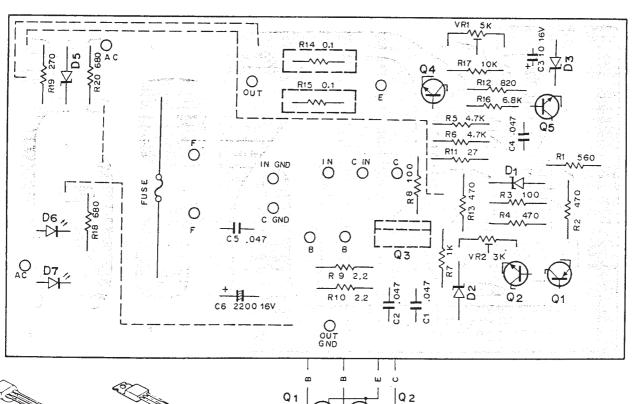
PS-20



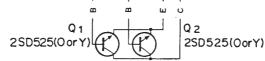
PS-20 PC BOARD ▼ AVR UNIT (X43-1350-00)

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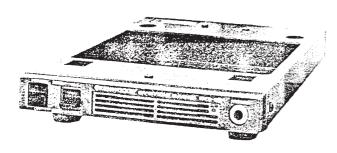


2SD525(Y)



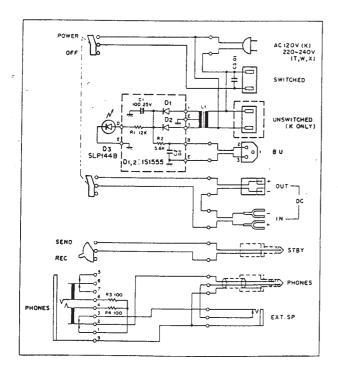


SYSTEM BASE BO-9



BO-9 SPECIFICATIONS

Input voltage	AC120V (K) ±10%, 50 ~ 60 Hz
	220~240V(T)(W)(X)
Buck up output	DC13.8V, 1.5 mA
AC outlet output	AC120V (K) 200W (MAX)
	220~240V(T)(W)(X)
Dimentions	170 (6-11/16") × 25 (1") × 232 (9-9/64") mm
	(inch)
Weights	Approx. 1.0 kg (2.2 lbs)

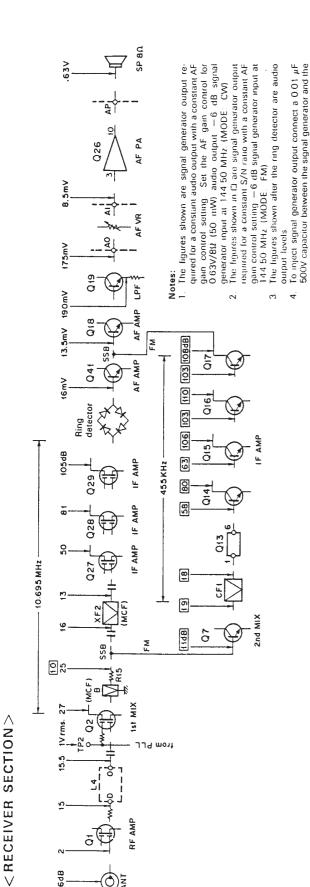


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BO-9 PARTS LIST

Ref. No.	Parts No.	Description	Re- marks
C1	CE04W1E101Q	E 100μF 25V	
C2,3	CK45F1H103Z	C $0.01\mu\text{F} + 80 20\%$	
		3.07,21	
R3.4	RC05GF2H101J	Solid 100Ω ±5% 1/2W	
D1,2	V11-0076-05	Diode 1S1555	
D3	V11-6172-56	LED SLP144B	
		3011445	
_	A01-0767-02	Case (upper)(K)	☆
_	A01-0768-03	Case (bottom)	☆
<u>-</u>	A01-0769-02	Case (upper)(W)(T)(X)	☆
-	A20-2374-05	Panel (T)	☆
	A20-2375-05	Panel (K)(W)(X)	4
_	846-0058-00	Warranty card (K)	_
_	B50-2708-00	Operating manual (K)	☆
_	850-2709-00	Operating manual (W)(T)(X)	☆
	502 0150 05		
_	E03-0153-05	AC Outlet	☆
	E03-0154-05	AC Plug (W)(T)(X)	☆
_	E11-0404-05	Phone jack	
	E11-0410-05	Phone jack	☆
_	E22-0306-05	Lug plate	
_	E30-0181-05	AC cord (K)	
_	E30-0185-05	AC cord (X)	
	E30-0585-05	AC cord (W)	
-	E30-0602-05	AC cord (T)	
_	E30-1653-15	DC cord	¥
-	E30-1654-05	Cord with φ2.5 plug	☆
	E30-1655-05	Cord with ST plug	☆
	E30-1656-05	DC cord ass'y	☆
_	E30-1657-05	3P power cord BACK UP	¥
_	H01-2665-04	Carton (inside)(T)	☆
-	H01-2667-04	Carton (inside) (K)(W)(X)	☆
_	H10-2532-04	Cushion foam × 4	☆
	H12-0467-03	Cushion	☆
_	H25-0029-04	Protective bag (W)(T)(X)	
-	H25-0103-04	Protective bag 125 × 250 mm	
_	H25-0106-04	Protective bag 250 × 350 mm	
,	J02-0323-05	Foot × 4	
	J19-1325-04	Stopper plate × 4	
	J25-2732-04	PC board	Ti I
-	J41-0006-05	Cord bush	
	L01-0150-05	Transformer (K)	
	1	Transformer (W)(T)(X)	☆
_		Bind screw	_
_		Bind screw	
		<u> </u>	- 1
-		Power switch	☆
-	S44-2404-05	STBY switch	ŵ
			

LEVEL DIAGRAM



< REFERENCE >

<TRANSMITTER SECTION >

American "SG"	0.25 μV	0.5 μV	۱ بر ۱	2 μV	8 μV	15.8 μV	20 πΛ	158 μV	500 μV	1.58 mV	5 mV	15.8 mV	50 mV	0.5V
Japanese "SG"	-6 dB	0 dB	6 dB	12 dB	24 dB	30 dB	40 dB	50 dB	60 dB	70 dB	80 dB	90 dB	100 dB	120 dB

24 V Son 12 W	Levels before DO terminal are measured with VR5 turned fullclockwise and DO Coaxial cable disconnected in TX unit (X56-1360-10). All voltage measurements except MIC AMP section are read from on RF VTVM. Voltages in MIC AMP are measured by AF VTVM.
OS OWER AMP	Levels before DO terminal are measured with VR5 turned fullclockwise and DC coaxial cable disconnected in TX unit X56-1360-10). All voltage measurements except MICAMP section are read from on RF VTVM voltages in MICAMP are ineasured by AFVTVM.
20.2 NN	Notes: 1. Levels before D with VR5 turn coaxial cable (K56-1360-10) 2. All voltage me AMP section at Voltages in MIC VIVM.
2.00 3.30	
~ (±±) <i>≴</i>	255
×	XF2 MCF)
S S S S S S S S S S S S S S S S S S S	ŠĒ.

MIC AMP





<Test Equipment>

- 1. Tester
 - Input: Sufficient
- 2. RF VTVM (RF V.M.)
 - \bullet Input impedance: $1~M\Omega$ and less than 2~pF
 - Voltage range: F.S. = 10 mV to 300V
 - Frequency range: 150 MHz or greater
- 3. Frequency counter (F count)
 - Minimum input voltage: 50 mV
 - Frequency range: 150 MHz or greater
- 4. DC power supply
 - Voltage 10V to 17V variable
 - Current: 6A min
- 5. RF Dummy Load
 - Dissipation: 20W
 - ullet Impedance: 50Ω
 - Frequency range: 144 MHz
- 6. AF VTVM (AF V.M.)
 - Input impedance: $1 M\Omega$ or greater
 - Voltage range: F.S = 1 mV to 30V
 - Frequency range: 50 Hz to 10 kHz
- 7. AF Generator (AG)
 - Frequency range: 100 Hz to 10 kHz
 - Output: 0.5 mV to 1V
- 8. Linear detector
 - Frequency range: 144 MHz
- 9. Field strength tester
 - Frequency range: 144 MHz
- 10. Directional coupler
- 11. Oscilloscope
 - With horizontal input and high sensitivity
- 12. Standard signal generator (SSG)
 - Frequency range: 144 ∼ 149 MHz
 - Modulation: amplitude and frequency modulation
 - Output: -20 dB ~ 100 dB
- 13. AF Dummy load
 - 8Ω, 5W (approx.)

Noise generator

- Must generate ignition-like noise containing harmonics beyond 144 MHz
- 15. Sweep generator
 - \bullet Frequency range: 144 \sim 149 MHz

< Preparation >

Unless otherwise specified, set the controls as follows.

POWER/VOL SW	ON
SEND/REC	REC
RF GAIN VOL	MAX (Full Clockwise)
SQUELCH VOL	MIN
MODESW	USB
VFO A/B SW	A
TX OFF SET SW	s
HI/LOW SW	н
RIT VOL	Centered
RIT SW	OFF
NB SW	OFF
SCAN SW	OFF
D.STEP/SEARCH	OFF
MR	OFF

Notes:

- When adjusting the trimmers or coils, use a non-induced adjusting rod of bakelite, etc
- When adjusting the RX section never transmit to prevent SSG damage.
- Connect MIC connector as shown in Fig. 18.

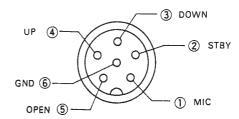


Fig. 18 MIC terminals (view from front panel side)

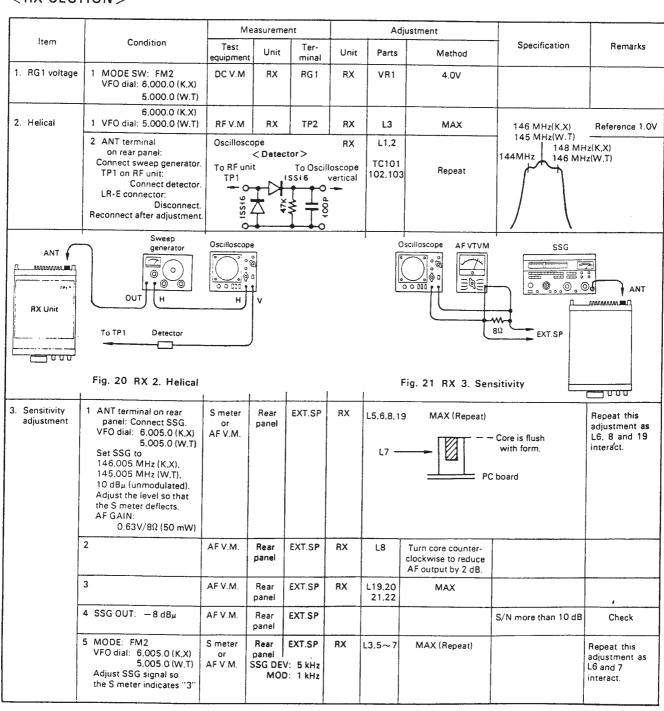
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ltem		Me	asureme	nt		Ad	justment		
	Condition	Test equipment	Unit	Ter- minal	Unit	Parts	Method	Specification	Remarks
1. Voltage check	1 8C			8C				7.7~8.3V	·
in RX mode.	2 8R			8R				7.9~8.9V	
	3 9T	DC V.M	TX	91				Less than 0.1V	Check
i	4 -6	1		-6				-5.8~-6.2V	
	Mode SW: FM1			-6				QV (Voltage drops)	
	5 5C		PLL	5C				5.1~5.7V	
. Voltage check in TX mode	Disconnect TX unit DO-E cable								
	Set in transmit mode.								
	1 9T	DC V.M	TX	9T	TX	VR6	Set to 9.0±0.1V		
	2 8R			8R				Less than 0.5V	
	3 DB]	Final	DB				11.7~12.1V	Check
. Back up voltage check	1 POWER/VOL SW: OFF	DC V.M	TX	МВ	TX	VR7	Set to 5.2±0.1V		
. PLL	1 MODE SW: FM1 VFO dial: 8.99 (K.X) 5.98 (W.T)	RF V.M	PLL	ТР3	PLL	L5,6.7	MAX		Reference 0.5V
	2 VFO dial: 4.00 (W.T) 8.99 (K.X)	DC V.M	PLL	TP2	PLL	TC1	2.0V (W.T) 7.0V (K.X)	±0.05V	
Ì	3 VFO dial: 8.99 (K.X) 5.98 (W.T)	RF V.M	PLL	TP3	PLL	L5.6.7	MAX		Readjust 1
	4 VFO dial: 5.98 (W.T)	DC V.M	PLL	TP2				3.5~4.5V (W.T)	Check
	4.00 (K.X) 5 VFO dial: 5.00 Set in transmit mode MODE SW: USB	RF V.M	PLL	TP1	PLL	L4	MAX	More than 2.0V (K.X)	Reference 0.2V
. HET frequency adjustment	1 Set in receive mode. MODE SW: FM2 VFO dial: 6,000.0 (K,X) 5,000.0 (W,T)	F.counter	PLL	TP1	Switch	VR2	135.305 MHz (K.X) 134.305 MHz (W.T)	±20 Hz	
	2 MODE SW: USB VFO dial: 6,000.0 (K.X) 5,000.0 (W.T)	F. counter	PLL	TP1	Switch	VR3	135,306.5 MHz (K.X) 134,306.5 MHz (W.T)	±10 Hz	
	3 VFO dial: 5,999.9 (K.X) 4,999.9 (W.T)	F.counter	PLL	TP1	PLL	VR1,2	135.306.4 MHz (K.X) 134.306.4 MHz (W.T)	±10 Hz	VR1: Coarse VR2: Fine
	4 MODE SW: LSB VFO dial: 6.000.0 (K.X) 5.000.0 (W.T)	F.counter	PLL	TP1	Switch	VR1	135,303.5 MHz (K.X) 134,303.5 MHz (W.T)	±20 Hz	
RIT	1 MODE SW: LSB VFO dial: 5,000.0 RIT SW: ON	F.counter	PLL	TP1	Switch	VR4	134,303.5 MHz	±10 Hz	
	2 MODE SW: USB	F.counter	PLL	TP1	Switch	VR5	134.306.5 MHz	±10 Hz	
Ī	3 RIT control: Full clockwise RIT control: Full counterclockwise	F.counter	PLL	TP1				More than 134,307.5 MHz Less than	More than ±1.0 kHz Less than —1.0 kHz
ļ.	4 RIT SW: OFF RIT control: Centered	DC V.M	PLL	RIT				134,305.5 MHz 5.0±0.3V	Check

Fig. 19 4. PLL, 5. HET, 6. RIT

!		Me	nt		Adju	ıstment		Remarks	
Item Condition	Test equipment	Unit	Ter- minal	Unit	Parts	Method	Specification		
7. CAR	1 Set knobs in Table 10.	RF V.M	CAR	TP	CAR	L4	MAX		Reference 0.28V
	2	F.counter	CAR	TP	CAR	TC1	10,693.5 MHz	±50 Hz	
	3 MODE SW: CW	F.counter	CAR	TP				Same frequency as 2	Check
	4 Set in transmit mode.	F.counter	CAR	TP	CAR	TC2	10,694.3 MHz	±50 Hz	
	5 Set in receive mode. MODE SW: LSB	F.counter	CAR	TP	CAR	TC3	10,696.5 MHz	±50 Hz	

<RX SECTION>



		Me	asuremei	nt		Adj	ustment		
ltem	Condition	Test equipment	Unit	Ter- minal	Unit	Parts	Method	Specification	Remarks
	6 SSG OUT: 50 dBμ	AF V.M.	Rear panel	EXT.SP	RX	L17	MAX		
	7 SSG OUT:7 dBμ	AF V.M.	Rear panel	EXT.SP				S/N more than 20 dB	Check
	8 SSG OUT: 40 dBμ	AFV.M	Rear panel	EXT.SP				S/N more than 50 dB	Check
4. S meter	1 MODE SW: FM2 SSG OUT: 30 dBμ	S meter			RX	VR2	Set RF meter to "10"		Lower scale
	2 MODE SW: USB No signal	S meter			RX	VR4	Set RF meter to "0".		Lower scale
	3 VFO diat: 4.500.0 SSG OUT: 20 dBμ	S meter			RX	VR5	Set S meter to "9".		Upper scale
	4 SSG OUT: O dBμ	S meter			RX	L21	After adjusting to MA turn the core counter- clockwise to set S meter to "1".		Upper scale
	5 Again SSG OUT: 20 d8μ	S meter			RX	VR5	Set S meter to "9".		Upper scale
5. NB	1 SSG OUT: 20 dB	DC V.M.	RX	ТРЗ	RX	L12.14	MIN (Repeat)		When TP3 voltage is less than 5V adjust L14 counter- clockwise to get 5V.
	2 Pulse noise							Pulse noise should be reduced.	Check

<TX SECTION>

		Me	asureme	nt		Adju	stment	ĺ	
Item	Condition	Test equipment	Unit	Ter- minal	Unit	Parts	Method	Specification	Remarks
1. CAR level	1 TX unit VR5: Full clockwise (ALC OFF)	RF V.M.	RX	so	RX	L25	MAX		
	DO terminal: Disconnect coaxial cable. VFO dial: 5,005.0 Set in transmit mode.				RX	VR7	0.25V		
2. FM	1 Follow the above procedures.	RF V.M.	ΤΧ̈́	TP1	тх	L5	MAX		Reference 0.25V
10. 695 MHz	2 MODE SW: FM1	RF V.M.	TX	TP1	TX	L4	MAX		Reference 0.25V
	3	F.counter	TX	TP1	TX	TC1	10,695 MHz	±200 Hz	
Drive adjustment.	1 Follow the above procedures.	RF V.M.	TX	TP2	TX	L8~11	MAX (Repeat)		Reference 2.3V
Power adjustment.	ANT terminal on rear panel: Connect power meter. DO terminal: Connect coaxial cable. Set in transmit mode.	Power meter or DC A.M.			тх	L11 TC2	MAX (Repeat)		
		Power meter			TX	тсз	MAX		More than 15W

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TR-9000

ADJUSTMENTS

le	0.00	Me	asureme	T	1	Ac	ljustment		
Item	Condition	Test equipment	Unit	Ter- minal	Unit	Parts	Method	Specification	Remarks
	2	DC V.M	Final	TP	Final	VR3	MIN		Reference 0
	3	Power meter			TX	VR5	Set to 11W		
5. RF meter	1 Follow the above procedures.	RF meter			Final	VR1	Set RF meter to "8".		Lower sca
6. LOW power	1 Follow the above procedures. HI/LOW SW: LOW MODE SW: FM1-FM2-6	Power meter			ТХ	VR4	Set to 1.2W		
7. Protection	1 MODE SW: FM1 HI/LOW SW: HI ANT terminal on rear panel: open	DC V.M	TX	PC	Final	VR2	1.25V	Current less than 1.8A	RF meter def tion should b below that at ohm termina
	2 Current above 1.8A.				Final	VR2	Set to 1.8A.		
8. FM deviation	1 MODE SW: FM1 MIC terminal: Connect AG signal of 1 kHz, 15mV.	Linear detector			TX	VR2	Set to 5 kHz		
	2 AG: Adjust AG output to obtain 3.5 kHz deviation.	AF,V,M.						AG output: less than 3 mV	Check
<u></u>	Fig. 22 TX 4. 'Po'	ਧਧ wer adjustr	nent) fin		Fig. 23 TX 8. FM	MIC	
9. SSB MIC gain	1 MODE SW: USB VFO dial: 4,500.0 AG: 1.5 kHz, 1.5 mV	Power meter			ТХ	VR1	10W	±0.5W	
	AG. 1.5 KHZ, 1.5 MV	1	Į.			1			
0. Carrier point	Adjust AUDIO output leve for 5W of transmit output	l Power meter							
	1 Adjust AUDIO output leve				CAR	TC1	400/2,600 Hz	Same output	
	Adjust AUDIO output leve for 5W of transmit output	meter Power			CAR	TC1		Same output Same output	
	Adjust AUDIO output leve for 5W of transmit output AG: 400 Hz or 2,600 Hz	Power meter Power Field strength					alternate 400/2,600 Hz		
point 1. CAR	Adjust AUDIO output lever for 5W of transmit output AG: 400 Hz or 2.600 Hz MODE SW: LSB MODE SW: USB MIC terminal:	Power meter Power Field strength		EXT.SP	CAR	TC3	alternate 400/2,600 Hz alternate Adjust alternately to minimize the field strength meter	Same output	

			Measurement			Adjust	tment		
Item Condition	Test equipment	Unit	Ter- minal	Unit	Parts	Method	Specification	Remarks	
Check of operating frequency	2 MODE SW: USB VFO dial: 6,000.0 (K,X) 5,000.0 (W,T)	F.counter	PLL	TP1				135.306.5 MHz ±10 Hz (K,X) 134.306.5 MHz ±10 Hz (W,T)	Check
	3 MODE SW: LSB VFO dial: 6,000.0 (K,X) 5,000.0 (W,T)	F.counter	PLL	TP1				135.303.5 MHz ±10 Hz (K,X) 134.303.5 MHz ±10 Hz (W,T)	Check
	4 VFO dial: 5,999.9 (K,X) 4,999.9 (W,T)	F.counter	PLL	TP1				135.303.4 MHz ±10 Hz (K,X) 134.303.4 MHz ±10 Hz (W,T)	Check
	5 Set in receive mode								

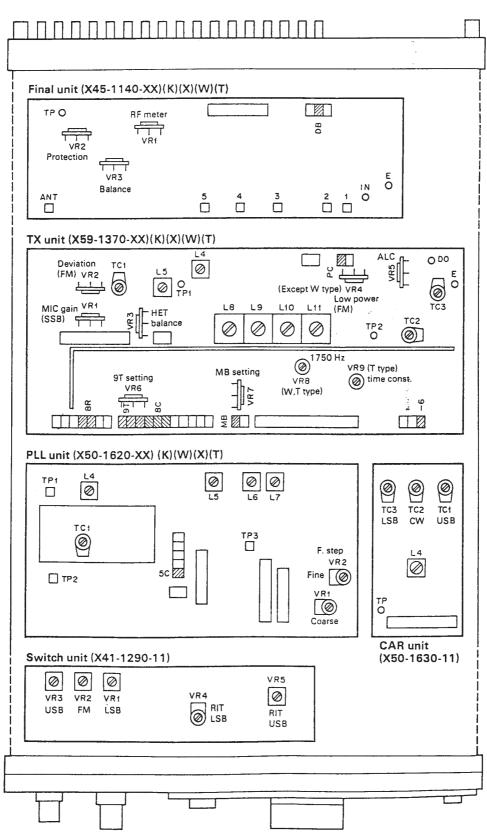
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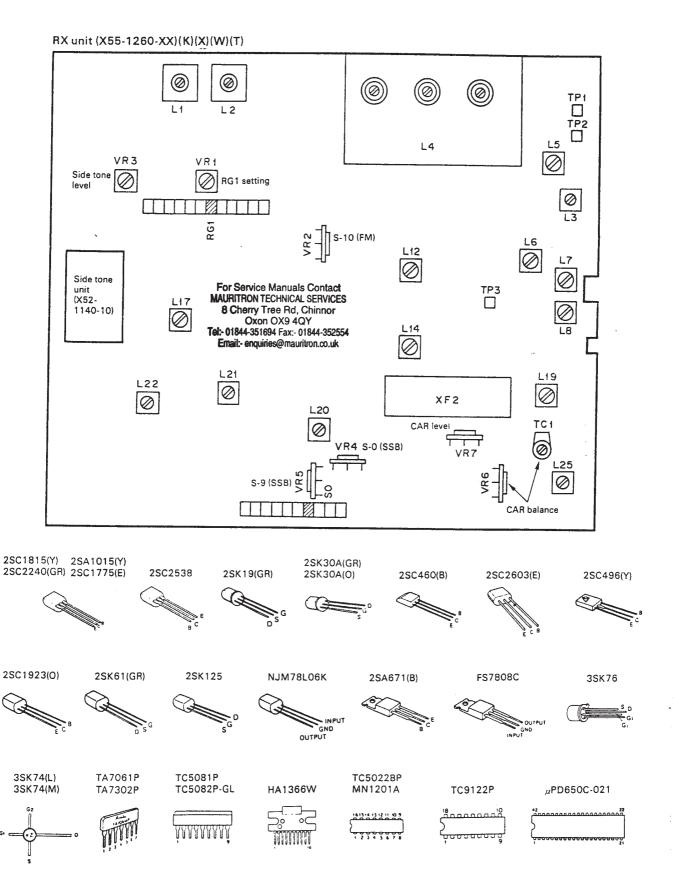
< Micro-computer operational check >

Control	functions		Micro	-computer funct	ions			
VFO A/B Disconnect porconnect after a VFO A/B SW: MR SW: ON MEMORY: 1 VFO A/B SW: MR SW: OFF Dial step and	2 20 second dela B ~ 5 A	ıy.	Indicates 6.000.0 (K,X) Indicates 5.000.0 (W,T) Indicates 4.000.0, VFO B indicator lights. Indicates 4.000.0.					
Destination Display, dial step	к	Γ	Х	w	т			
MODE SW: USB-CW- LSB-FM2 Turn VFO dial	5 digits indication Indication changes in 100 Hz steps.		+	-	-			
MODE SW: FM2 D STEP SW: ON Turn VFO dial.	4 digits indication Indication changes in 5 kHz steps.		-	4 digits indication Indication changes in 12.5 kHz steps.	-			
MODE SW: FM1 D STEP SW: ON, OFF Turn VFO dial.	3 digits indication Indication changes in 10 kHz steps.	Inc	tication changes	←	-			
3. Memory 1 Write Set the control MEMORY SW: 2 Call MEMORY SW: 3 MEMORY SW:	1~5		By pressing M SW. tone should be heard and the 5-digit data indicated should be stored in memory. By pressing MR SW. the 5-digit frequency should be displayed. Transmit and receive frequencies should be stored and called individually.					

Control functions	Micro-computer functions
4. UP/DOWN 1 Set the controls as in Table 10.	Press the MIC UP/DOWN switch once, the tone should be heard and the frequency will shift up or down step by step. Press and hold the switch, and the frequency will change rapidly with continuous tone.
5. Search 1 MODE SW: USB-CW-LSB D. STEP SW: ON(SEARCH) 2 Turn VFO dial. 3 Set in transmit mode. 4 D. STEP SW: OFF Set in receive mode.	The frequency is searched between 0 and 9.9 kHz in 100 Hz steps. The frequency is shifted up or down in 10 kHz steps (quick shift). The search function stops.
6. Scan 1 MODE SW: FM2 Squelch control: ON SCAN SW: ON 2 D. STEP SW: ON (SEARCH) 3 Squelch control: Turn counterclockwise. 4 Squelch control: F.S. 5 Set in transmit mode. 6 Set in receive mode.	The frequency is shifted up in 100 Hz steps. The frequency is shifted up in 5 kHz (K,X), 12.5 kHz (W,T) steps. BUSY indicator lights. Scan stops. Scan restarts. Scan stops.

<TOP INTERNAL VIEW>





WIRE HARNESS (K) TYPE

Symbol color

BLU Blue GRY Gray WHT Whi
BRN Brown ORA Orange YLW Yell
GRN GRN Green WHT Violer

The color of the		T				,		· · · · · ·						BRN GRN	Brown		A Orange	YLW Yellow
1		nai	Connec	Termi-	Color	Remarks		nai	Connec	- Termi	Color	Remarks		nat	Connec	Termi	Calor	Remarks
1	1		F	5			14	3			VITAWHT	BOD	29	-			-	ss
		3	41	2	cable	Ε		4	F	7	8LK/WHT	80			1	1	_	
2		5	27					6	6	6	VLT			4		4		FMT
	2						15						7	6			1	1 ' '
3		2	3	2	RED	DB		3		15	WHT	ОСВ		1	_ A		BRN	1
1	3	1	2					5	ε	18	BLU	SCB		9	С	7	BRN	FMC
A								1	1					11	32	6	8RN	FMC
1	4				RED							RV3	30					
S		3	٥	1	1.			10	ε	23	YLW/WHT	SBT			4	6]1	Ε
6 30 2 7 0 0 2 7 0 0 0 0 0 0 0 0 0		1	1		IBLU	1 1	16	_					-	4	Α	1	YLW/WHT	KEY
S				1	GBN	Ε			1				31			1		
1	5	1		-	-	FMT		4	K	2	BLK/WHT	E3		1	į.	1	1	1
S					1								32	1	15	7	GRN	ССВ
6				1			17						-	1	1			
S		6	A	4	GRN/WHT	AP		2	E	8	GRY/WHT	FM2					GRN	
10 E 6 8 8 7 FMA 6 6 F 4 850 82 33 1 38 A 10 F T		8	-		-			4	F					6	29	11		FMC
11			1	l	 BRN/WHT	1 1				1	1				_ A	10	ORA	
6 1 2 20 3 4 687-WHT 288 2 1 2 089			40	4	ORA/WHT	80	18	7		5	ORA	83	33		1			
A	6	1	26	4	GRY/WHT	8R	.	2		2	GRN	5CE	34				ARO	CV
S					JGRN						l l		35	1	42	2	RED/WHT	AL
Fig.			1 1				19		1				1					
S		6	14	6	VLT	NS		3	23	3	ORA/WHT	33						
10		8	1 1			1 1		5			1		36	1	37	1	Coaxial	LR
7									4	,	1						1	
B	7	1	25	2	Coaxial	RO	20		22	2	BLU	22	37					
1	8	1	J	2	BLU	AG2		3	22	4	YLW	14	30	2	36	2	cable	E
S														2	9	4	cable	51
9				1	1	ε						11	39				12	1
3	9	1	35	4	ORG/WHT	CG	21	1	27	7	GRY	8C	40		34	,	1	TL
Solid Soli								3	15	1				3	ļ		ORA/WHT	BD
Record R				13								1 1			5	11	F	1 1
S				-	_	-	22				l .	23	41		- 1			
10		8	35	3	BLK/WHT	SCT	İ	3	20	2	GRN	21	42	1	н	2	ORA/WHT	
2 E 12 BLU/WHT CTB		10	11	1		1 1					1		A	1	30	4	YLW/WHT	KEY
3	10																	1 1
S	- 1	3	ε	17	8LU	SCB	23		19	1	GRN/WHT	35						
Total Tota		5	A	2	GRN	CCB		3	19	3	ORA/WHT			6	0	7	YLW	В
S														8	c	6	ı	
10				- 1	Coavial	E	24					24						1
2 E 19 8LU SCB 4 5 3 8RN ULB 2 28 1 8LU 88 8	11	10	8	5	cable	ст			34	1	ORA	vc	8				RED	E
A E 16 WHT OCB 2 7 1	''	2	E			SCB _			5	3				2	28	. 1	BLU	88
S		4				1	25							2	26	6	i	E6
The control of the	1					ОСВ	26					ST						
12 1 27 4 RED CB 6 CB 5 1 1 YUW RB 7 29 9 BRN FMC5 2 2 44 1 GRN 5C 6 6 C 2 3 28 2 ORA MB 7 C 1 WHT MIC 2 4 4 1 1 EB 3 6 2 IGRN E 13 1 F3 27 1 D 6 YEL B 3 6 2 IGRN E 2 F 6 ORA/WHT F3D 2 31 3 RED CB 5 B 1 RED CD 7 C 1 RED CB 6 27 1 YUW ON T 1 RED CD 7 C 1 RED CB 6 27 1 YUW ON T 1 RED CD 7 C 1 RED CB 6 27 1 YUW ON T 1 RED CB 7 A 6 YUW B 1 RED CB 7 C 4 VUT A2 7 21 1 GRY BC CB 7 C 4 VUT A2 7 21 1 GRY BC E 1 GRY BC CB B H 1 RED CB	- 1	7	39	2 10	Coaxiai	E		3	E	24	ORA/WHT	88			13			DN3
2 24 1 GRN 5C 6 C 2 WHT MIC 2 4 3 YLW AI 3 STAND FMC 3 1 WHT MIC 2 4 4 4 S E E E E E E E E E E E E E E E E	12	1	27					5	1	1				7	29	9	8 RN	FMC5
13						5C					WHT	Ε	0				}YLW	1 1
3	13	1	_		-	F3	27	1	D	6	YEL	8	1	3	- 1		GRN	E
S		3	к	4 E	LK/WHT	E3		3	4	1 -	RED	СВ		5	В	1		сом
6 00 6 E 22 0RA 8C E 1 15 4 BRN FMC 8 C 5 BLU A3 8 5 5 GRY 8C 2 29 12 BRN FMC 9 27 11 VLT/WHT 9T 9 15 11 VLW/WHT 9T 3														7	A	6	YLW	8
S		6	-	- -	-	00		6				8C -	E					
10 G 4 ORA/WHT SS 10 1 5 VLT/WHT 9T 4 29 4 RED/WHT FMT 11 24 3 RED UL 11 13 9 VLT/WHT 9T 5 FMR FMR 14 1 F 8 BRN 81 28 1 (8) 2 BLU (88) 6 5 10 BRN/WHT FMR 2 H 6 YLW-WHT FZ 2 12 3 ORA MB 7 17 3 VLT/WHT FM1		8	c	5 B	LU	A3		8	5	5	GRY	8C		2		12		FMC
11 24 3 RED UL 11 13 9 VLT/WHT 9T 5 - - FMR 14 1 F 8 BRN B1 28 1 (B) 2 BLU (BB) 7 17 3 VLT/WHT FMI 1 1 1 1 1 1 1 1 1		10												4	1	4	RED/WHT	FMT
2 H 6 YLW-WHT F2 2 12 3 ORA MB 7 17 3 VLT/WHT FM1	14			3 R	ED	UL				9	VLT/WHT	97		6	5		BRN/WHT	
8 17 2 GRY/WHT FM2						E2												

WIRE HARNESS (K) TYPE

Conne ter No		Connec	Termi	Color	Remarks	
ter No	o. nal	tor	nal			
٤	9	10	6	GRN	ССВ	
	10	15	6	GRN	ссв	
1	11	11	3	8LU/WHT	ств	
1	12	10	2	BLU/WHT	СТВ	
	14	'6	8	GRN/WHT GRN/WHT	CRB	
i	15	15	3	WHT	осв	
1	16	11	4	WHT	осв	
	17	10	3	BLU	SCB	
1	18	15	5	8LU	SCB	
	19	11	2	8LU	SCB	
	21	6	9	VLT	BRS	
	22	27	6	ORA	S8C	
1	23	15	10	YLW/WHT	S8T	
1	24	26	3	ORA/WHT	S8R	
	25 26	10 K	1	GRY	875	
 	1 20	17	1 1	BLK/WHT GRN	E3 MC5	
1	2	17	4	BLK/WHT	80	
	3	17	5	BRN	B1	
1	4	17	6	REO	82	
	5	17	7	ORA	83	
1	7	14	2	ORA/WHT BLK/WHT	F3D 80	
	8	14	1	BRN	81	
l	9	16	5	RED	82	
	10	16	2	ORA	83	
G	1	4	7	GRN	SQ	
l	2 3	J 5	8 12	BLK ORA	FS	
	4	13	10	ORA/WHT	FS	
н	1	1	6	RED/WHT	PC	
Ì	2	42	1	ORA/WHT	PC	
1	3 4	16 16	6 7	BLU	3R	
	5	13	4	YLW/WHT	2R E2	
	6	14	2	YLW/WHT	E2	
	7	10	4	ORA	soc	
	8	9	2	GRN	M	
	10	14	3	VLT/WHT	800	
	11	16	1	BLU/WHT	83D	
	12	13	5	BRN	E1	
	13	к	6	BRN/WHT	A/8 D	
	14	D	8	YLW	СВ	
	16	- к	5	YLW	В	
	17	ĸ	8	BLK	E	
1	1	18	1	BLK	E	
	2 3	18	2	GRN	5CE	
	4	18 18	3	BRN BLK/WHT	A1 AO	
J	1	5	7	YLW	8G1	
	2	8	1	BLU	RG2	
	3	15	2	VLT	RIT VR1	
	4 5	21 15	2	GRN	RIT VR2	
	6	15	7	BLK	RIT VR3	
	7	5	8	BLK	É	
	8	G	2	BLK	E	
к	1	Ε	26	BLK/WHT	E3	
1	2	16 16	4	BLK/WHT WHT	E3	
J	4	13	3	WHT BLK/WHT	82D E3	
i	5	н	16	YLW	В	
	6	н	13	BRN/WHT	A/B D	
- 1	7	-	_	-	-	
	8	Н	17	BLK	E	

Connector No.	PC Bound/Parts
1, 2	FINAL UNIT (X45-1140)
3	Q101: 2SA671 (B)
4~10	RX UNIT (X55-1260)
11	CAR UNIT (X50-1630)
12.13	CONTROL UNIT (X53-1160)
14~16,40	SWITCH UNIT (X41-1290)
17 ~ 20	CONTROL UNIT (X53-1160)
21~25.36	PLL UNIT (X50-1620)
26 ~ 29,	TX UNIT (X56-1360)
31 ~ 34	
30	SIDE TONE UNIT (X52-1140)
35	RX UNIT (X55-1260)
	PLL UNIT (X50-1620)
37	RX UNIT (X55-1260)
38	TX UNIT (X56-1360)
39	RX UNIT (X55-1260)
41	RX UNIT (X55-1260)
42	TX UNIT (X56-1360)
Α	EXT.SP, KEY, TONE PAD, EXT.
	STBY SW
В	BUCK UP, POWER SUPPLY
С	MIC CONNECTOR
D	VOLUME, POWER SW
E	MODE SW .
F	MEMORY SW
G	SQUELCH
н	SCAN SW, SHIFT, METER, HI/LO
1	ENCODER
J	RIT, RF GAIN
К	A/B SW

< Wireharness Parts >

Parts No.	Parts
E40- <u>02</u> 75-05	Mini connect wafer 2P
E40- <u>12</u> 75-05	Mini connect wafer 12P
E23-0410-05	Mini connect pin
E40- <u>02</u> 05-05	Mini connect housing 2P
E40- <u>12</u> 05-05	Mini connect housing 12P

For Service Manuals Contact
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