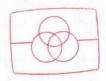
SRF-M903

SERVICE MANUAL



AFP Model UK Model F Model



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SPECIFICATIONS

Frequency range FM: 87.5 - 108 MHz

(0.05 MHz* scan step)

AM: 531 - 1602 kHz

The frequency display is raised or lowered by steps of 0.1 MHz. (Example: Frequency 88.05 MHz is displayed as 88.00 MHz.)

Intermediate frequency

FM: 10.7 MHz

AM: 450 kHz

Antenna FM: Earphone cord antenna AM: Built-in ferrite bar antenna

Stereo earphone jack (stereo ¢2.5 mm. load impedance 16 ohms)

18 mW + 18 mW (at 10% Power output

harmonic distortion)

Power requirements

Output

3 V DC, two R03 (size AAA)

batteries

Using Sony batteries UM-4 (NU) Battery life FM: Approx. 16 hours

AM: Approx. 23 hours

Dimensions Approx. 59 × 100 × 18.3 mm (w/h/d) incl. projecting parts and

controls

Weight Supplied accessories

Approx. 90 g incl. batteries

Earphones (1), Ear pad (2), Carrying case (1)

Design and specifications are subject to change without notice.

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

FEATURES

- · AM/FM stereo PLL (Phase Locked Loop) synthesized receiver.
- UP to 14 stations (7 for each band) can be stored for button-touch tuning (memory preset tuning).
- · The tuned frequency is digitally displayed to make searching for the desired station easier. When the radio is off, the current time is displayed.
- · Beep sound notifies you of the preset time (timer and alarm function).
- · Power goes off automatically in about 90 minutes (power saving features).

NOTES ON CHIP COMPONENT REPLACEMENT

- · Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

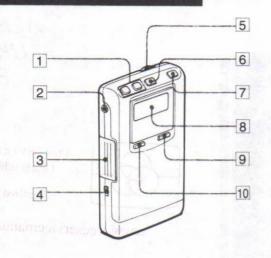


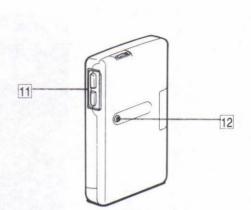
AM/FM STEREO PLL SYNTHESIZED RECEIVER SONY

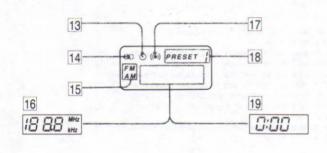
SECTION 1 **GENERAL**

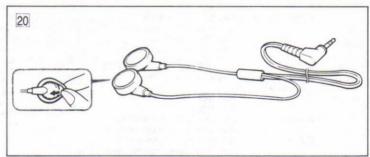
Location of Controls

This section is extracted from instruction manual.









Front Panel

- 1 MEMORY PRESET +/- buttons
- 2 (stereo earphones) jack

The earphone cord serves as the FM antenna.

- 3 Battery compartment
- 4 ST/MONO (stereo/monaural) selector
 5 VOLUME control
- 6 BAND selector
- 7 AUTO OFF/POWER button
- 8 Display window
- 9 ALARM button
- 10 TIMER button

- 11 TUNE (tuning)/TIME SET +/- buttons
- 12 ENTER/CLOCK button

Display window

- 13 Timer indicator
 - Appears when you set the timer.
- 14 Battery indicator
 - Flashes when the batteries become weak.
- 15 Band indicator
- 16 Frequency indicator
 - Appears while the radio is on.
- 17 Alarm indicator
 - Appears when you set the alarm.
- 18 PRESET and preset number indicators
- 19 Time indicator

Appears when the radio is off.

Earphones

20 To attach the supplied ear pad



Battery Installation

Insert two R03 (size AAA) batteries with correct polarity. When you insert the batteries for the first time, 0:00 flahes in the display window. To stop flashing, press ENTER/CLOCK.

Battery replacement

When the batteries become weak, the radio is turned off, the time indicator appears and CD flashes in the display window. (The sound may become weak or distorted before on starts flashing.) If you turn on the power again, you can listen to the radio for a short time. But the power will be soon turned off and 🖾 flashes again.

When I flashes, replace both batteries with new ones. Even after you replace the batteries, on remains flashing. To turn off on, press AUTO OFF/POWER.

Replace the batteries within about 60 seconds after turning off the power.

If more than 60 seconds has passed, the preset stations are canceled and the time indicator becomes 0:00.

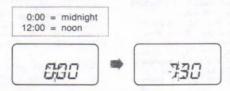
In this case, perform the clock setting and preset tuning again.

- Notes on the battery

 Insert the batteries with correct polarity.
- · Do not mix new and used batteries.
- · The batteries cannot be charged.
- · To avoid damage from possible battery leakage, remove the batteries when the unit will not be used for a long time.
- · Concerning the battery life, see "Specifications".

Clock Setting

While keeping ENTER/CLOCK pressed, press TUNE/TIME SET + or - button until the display shows the current time. Press + to increase or - to decrease the digits. When you keep the button pressed, the digits change rapidly. While setting the time, : is flashing

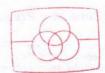


2 When the display shows the current time, release ENTER/CLOCK.

: stops flashing and the clock starts operating.

To set clock to the second

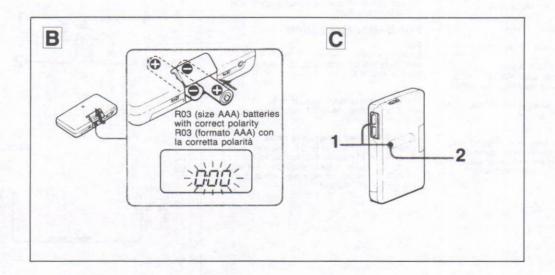
After adjusting the time, keep ENTER/CLOCK pressed. Release ENTER/CLOCK by using the time signal.



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Radio Operation

- 1 Connect the earphones. Extend the cord as it serves as the FM antenna
- 2 Press AUTO OFF/POWER to turn on the power.

The display window shows a frequency 3 Select FM or AM with BAND.

Tune in the desired station by pressing TUNE/TIME SET +/- button.

At each press of +, the FM frequency becomes 0.05 MHz higher (the display changes by 0.1 MHz) and the AM frequency becomes 9 kHz higher. At each press of -, the FM and AM frequencies become lower by the same intervals To change the frequency rapidly, keep the button pressed.

5 Adjust VOLUME.

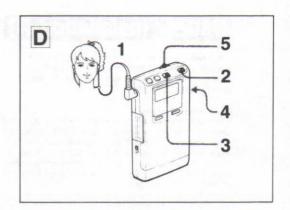
To turn off the radio

Press AUTO OFF/POWER again. The display shows the current time.

When the power is turned off

automatically
The radio will be turned off automatically in about 90 minutes to prevent unnecessary wear of the batteries.

To continue listening to the radio, press AUTO OFF/POWER again. If the batteries are exhausted, the power is turned off automatically to protect the preset contents.



Memory Preset Tuning

Once you store the desired stations, you can tune them in by a simple operation. You can store 7 stations for each of the FM and AM

How to Preset E

- Turn on the power.
- 2 Tune in the desired station to preset. See "Radio Operation"
- 3 Keep ENTER/CLOCK pressed for more than 1 second.

Release ENTER/CLOCK when PRESET and a preset number indicator flash in the display window with the beep sound.

4 Select a preset number from 1 to 7 by pressing MEMORY PRESET +/button.

Press + to increase $(1 \rightarrow 2 \rightarrow \dots \rightarrow 6 \rightarrow 7)$ the digit Press - to decrease (7→6→ →2→1) the digit.

5 Press ENTER/CLOCK again. Beep-beep sounds, and PRESET and a preset number stop flashing. The station has been stored.

To preset other stations, repeat steps 2 to 5

Note

Go to the next step while the PRESET and preset number are flashing (for about 5 seconds). Otherwise the unit returns to step 2. If this happens, try again from step 3.

To Tune in a Preset Station F

- Turn on the power.
- Select the band, FM or AM.
- Select the desired preset number by pressing MEMORY PRESET +/button.
- 4 Adjust VOLUME.

To change the preset station

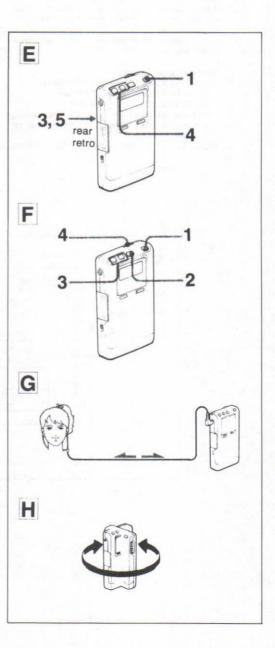
Tune in the desired station to be newly preset. Preset the tuned station to the desired button. The station previously preset to the button is lost.

For Better Reception

Extend the earphone cord so that the FM sensitivity will be increased, as it serves as the FM antenna.

AM H
The ferrite bar antenna is built in for AM reception. Rotate the unit horizontally for optimum reception.

If the FM stereo program is noisy Usually set ST/MONO to ST. You can receive the FM stereo program in stereo. When the signal is weak and noisy, set to MONO. There will be no stereo effect, but the sound will improve.



Sounding the Beep at Desired Time

You can make the unit sound its beep through the connected earphones at the desired time. Use this feature to remind you of an appointment, etc.

There are two ways of setting:

Timer setting — to sound the beep a certain number of minutes later than the present.

· Alarm setting - to sound the beep at a certain time

You can set the timer and alarm while the radio is either on or off.

Timer Setting I

1 While keeping TIMER pressed, press TUNE/TIME SET +/- button to store the desired period in minutes after which you want the beep to sound. You can store periods from 1 to 180 minutes

ত is flashing in the display window while you press TIMER.

To sound the beep after 30 minutes, for example, while keeping TIMER pressed, press TUNE/TIME SET +/- until 30 appears in the display window.

2 Release TIMER.

stops flashing. The display returns to the current time or

to the frequency which was shown before you pressed TIMER to start the timer setting. When the stored period has passed, Oflashes and the beep sounds

Alarm Setting J

Make sure that the clock is correctly set. (See "Clock Setting".)

1 While keeping ALARM pressed, press TUNE/TIME SET +/- button to set the time when you want the beep to sound. (**) is flashing while you press ALARM.

To set the alarm for 7:00 in the morning, for example, while keeping ALARM pressed, press TUNE/TIME SET +/- until 7:00 appears in the display window.

2 Release ALARM.

(**) stops flashing. The display returns to the current time or the frequency which was shown before you pressed ALARM to start the alarm setting. When the time comes, (**) flashes and the beep sounds.

To cancel the alarm setting Press ALARM again. ((*)) disappears.

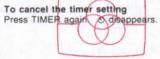
To stop the beep

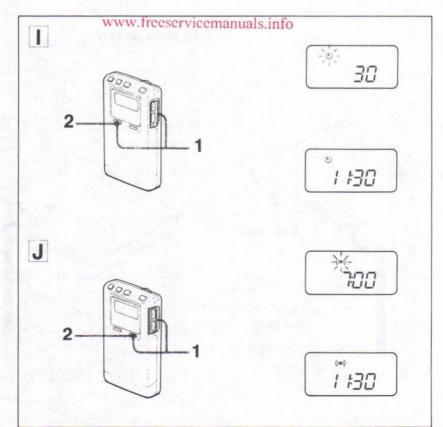
Press any button. If you do not stop the beep, the beep stops automatically after about 3 minutes. When the beep sounds while you are listening to the radio, the radio reception stops and resumes when the beep stops.

. When 0:00 flashes, you cannot set the

Free service when you are listening to radio, you can service the service of the set the timer and alarm.

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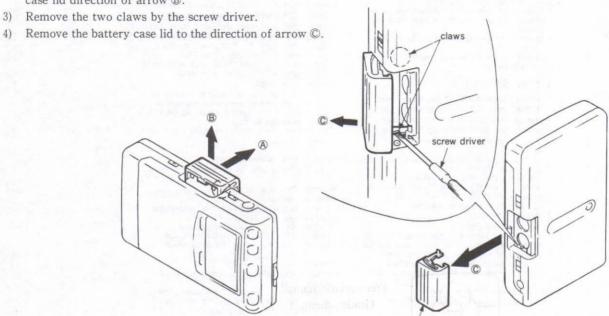


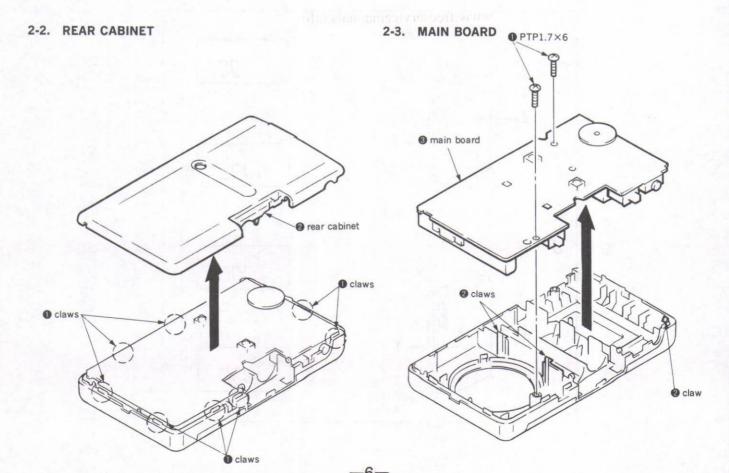
SECTION 2 DISASSEMBLY

• Follow the disassembly procedue in the numerical order given.

2-1. BATTERY CASE LID

- 1) Slide the battery case lid to the direction of arrow (A).
- 2) Insert the screw driver in to the @, and slide the battery case lid direction of arrow (B).



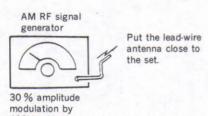


battery case lid



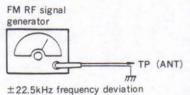
SECTION 3 ELECTRICAL ADJUSTMENTS

AM Section

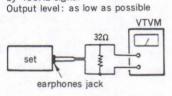


400Hz signal Output level: as low as possible

FM Section



by 400Hz signal



 Repeat the procedures in each adjustment several times, and the tracking adjustments should be fimally the trimmer capacitors.

AM IF AD	JUSTMENT
Adjust for a maxim	um reading on VTVM.
T1	450kHz

AM VC	AM VCO VOLTAGE ADJUSTMENT						
Adjustment Part	Frequency Display	Reading on Digital voltmeter					
L5	1,602kHz	7.3±0.05V					

Note: Not use the AM rf signal generator in this adjustment.

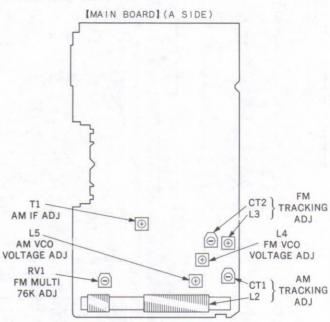
AM TRACKING	ADJUSTMENT
Adjust for a maximu	ım reading on VTVM
CT1	L2
1,485kHz	585kHz

FM VCO VOLTAGE ADJUSTMENT							
Adjustment Part	Frequency Display	Reading on Digital voltmeter					
L4	108MHz	11±1.5V					

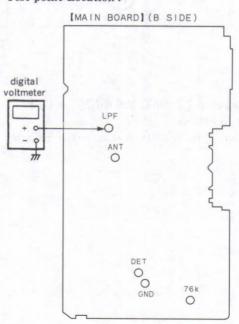
Note: Not use the FM signal generator in this adjustment.

FM TRACKING	ADJUSTMENT
Adjust for a maximu	m reading on VTVM
CT2	L3
108MHz	87.5MHz

Adjustment Location:

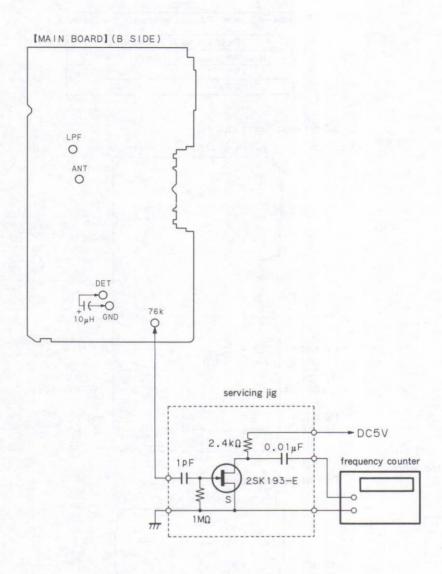


Test point Location:



FM STEREO Adjustment

Setting: MONO/ST switch (S1) ... ST



- 1. Connect to between TP (DET) and (GND) for 10μ F.
- 2. Tune the set to 98MHz.
- 3. Adjust RV1 for 76kHz \pm 200Hz reading on the frequency counter.

SECTION 4 PIN DESCRIPTION

Pin description of μPD1724GB-555-1A7 (IC5)

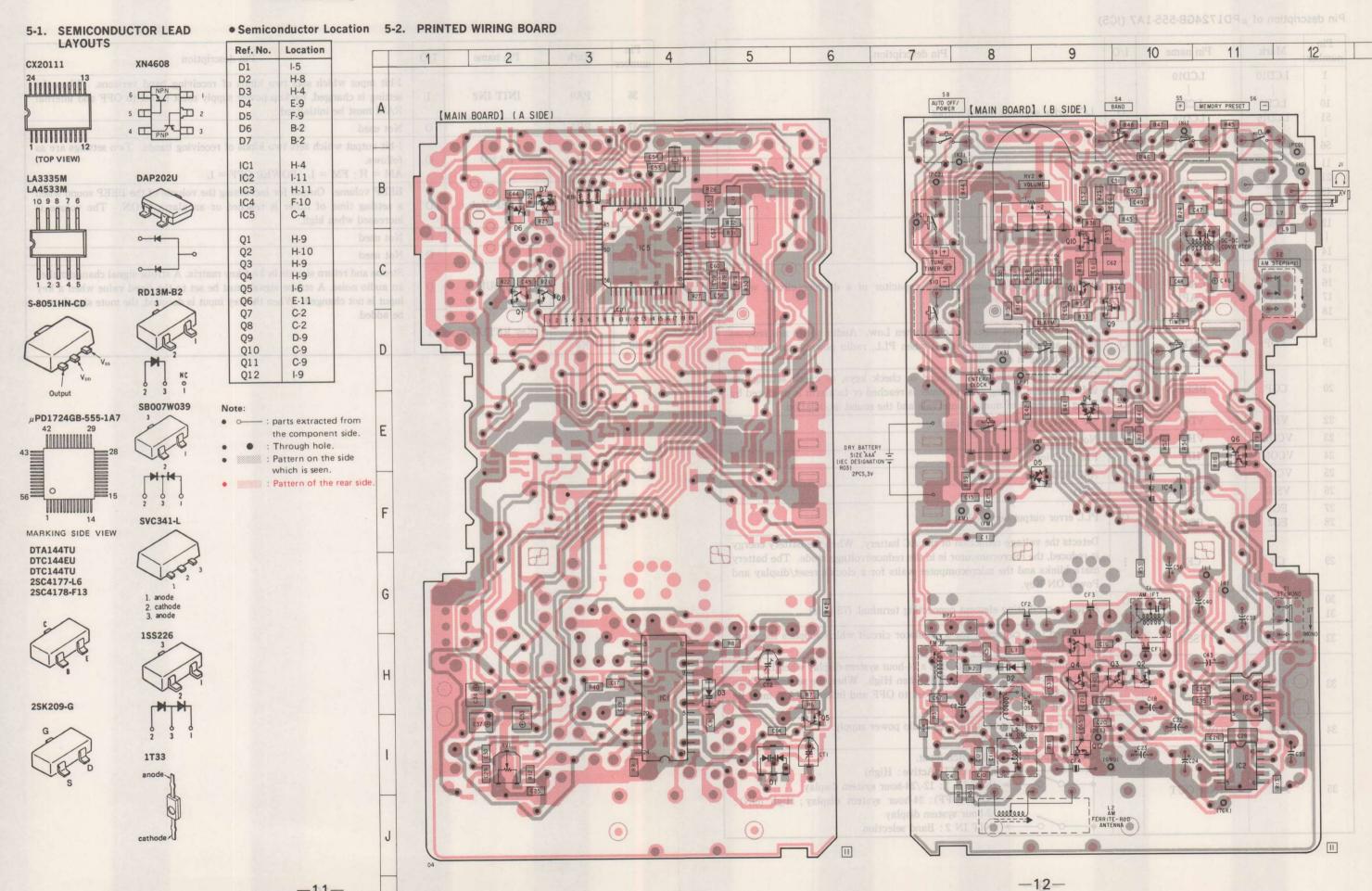
Pin number	Mark	Pin name ()	I/O	Pin description
1	LCD10	LCD10		
10 51	LCD1 LCD16	LCD1 LCD16	0	LCD drive segment signal output.
56	LCD11	LCD11		
11 21 49 50	NC	NC		
12	СОМЗ	COM3	EUS D	OF TABLE IN THE PARTY OF THE PA
14	COM1	COM1	0	LCD drive common signal output.
15 16 17 18	VSS1 CAP2 CAP1 VSS2	VSS1 CAP2 CAP1 VSS2	A STATE OF THE STA	Terminals used for connecting a capacitor of a doubler circuit which supplies LCD drive voltage.
19	VDP	MUTE	0	Andio mute output signal. Active when Low. Audio noises are reduced before and after the mute signal when PLL, radio power supply or key strobe change is controlled.
20	CGP	BEEP	0	Buzzer output using CGP. Sound to check keys, to check settings, to indicate that a setting time of timer is reached or to alarm is produced by using two kinds of musical intervals and the sound modulation.
22	VDD	VDD	_	5 V power supply input terminal.
23	VCOH	VHF	I	Not used.
24	VCOM	HF	I	FM VCO input.
25	VCOL	AM	I	AM VCO input.
26	VSS1	VSS1	-	GND
27 28	EO1 EO2	EO1 EO2	0	PLL error output terminal.
29	CE	СЕ	I	Detects the voltage reduction of the AC battery. When the battery energy is reduced, the microcomputor is in the reducedvoltage mode. The battery mark blinks and the microcomputer waits for a clock's reset/display and Power ON Key.
30 31	XO XI	XO XI	O	A quartz oscillating element connecting terminal. (75 kHz)
32	VSS4	VSS4		Connected to a capacitor for a regulator circuit which supplies the oscillator' stable drive voltage.
33	PA3	INIT IN1	I	Time display switching input. It is a 24-hour system display when Low and a 12-hour system display (AM/PM) when High. When the setting is changed, backup power supply must be set to OFF and internal RAM must be initialized.
34	PA2	POWER OUT	0	ON/OFF switching output for the radio power supply. (ON: High; OFF: LOW)
35	PA1	INIT OUT	0	Strobe output for initial switch input. INIT OUT (Active: High) INIT IN 1: 12-/24-hour system display LOW (OFF): 24-hour system display; High (ON): 12-hour system display INIT IN 2: Band selection

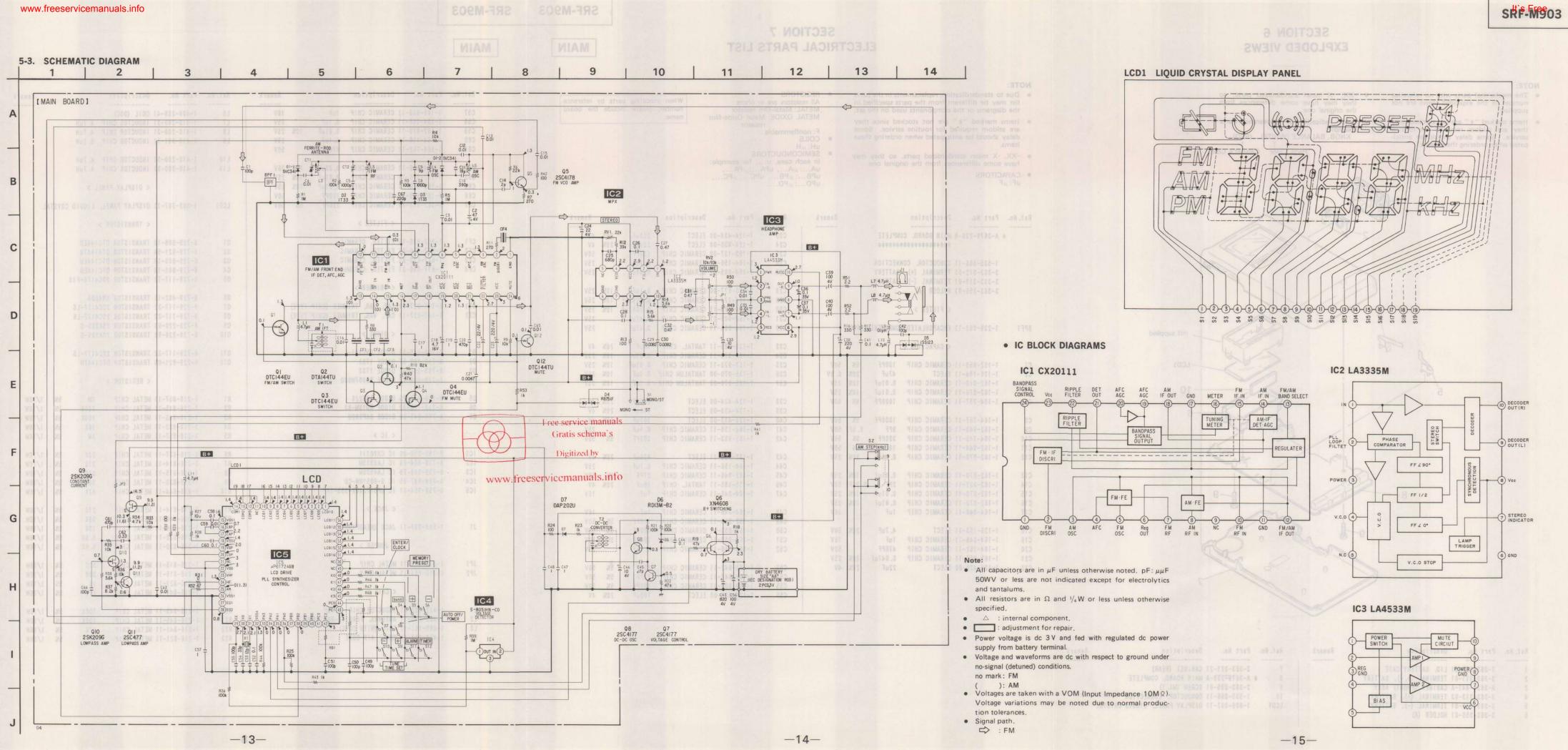
Pin number	Mark	Pin name	I/O	Pin description 803BMX 1110SX
36	PA0	INIT IN2	I	1-bit input which sets two kinds of receiving band versions. When the setting is changed, backup power supply must be set to OFF and internal RAM must be initialized.
37	PB3		0	Not used 28 80 t = 3 mmmm
38	PB2	BAND	0	1-bit output which sets two kinds of receiving bands. Two settings are as follows. AM = H; FM = L; POWER OFF = L
39	PB1	BEEP Vol	0	BEEP volume. Output for increasing the volume of the BEEP sound when a setting time of timer is reached or an alarm is ON. The volume is increased when high.
40	PB0	THE LEWIS T	0	Not used 644 10
41	· PC3		0	Not used
42 44	PC2 PC0	Key SOURCE	0	Strobe and return signals in 3×4 key matrix. A strobe signal change makes an audio noise. A strobe signal must be set to the fixed value when a key input is not changed. When the key input is decoded, the mute signal must
45	K3	Key RETURN	I	be added.

SECTION 5



SECTION 5 DIAGRAMS





When indicating parts by reference number, please include the board

SECTION 7 ELECTRICAL PARTS LIST

All resistors are in ohms METAL: Metal-film resistor METAL OXIDE: Metal Oxide-film

resistor

• RESISTORS

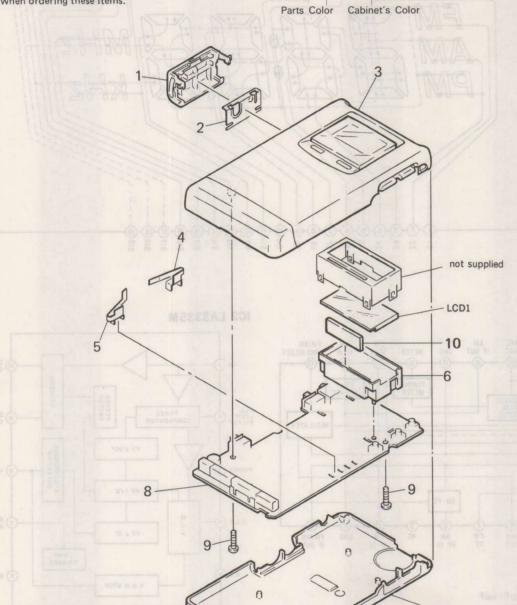
F: nonflammable

MAIN

MAIN

SECTION 6 **EXPLODED VIEWS**

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not
 -XX, -X mean standardized parts, so they may have some differences from the original one.
 - Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE)...(RED)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
						Tabilo Diktorga	or medical differ 30
1	3-363-357-01	LID. BATTERY CASE		7	3-363-321-21	CABINET (REAR)	
2	3-363-311-01	TERMINAL (+, -), BATTERY		8	* A-3679-239-A	MAIN BOARD, COMPLETE	
3		CABINET (FRONT) ASSY		9	3-363-895-01	SCREW (M1. 7)	
4		TERMINAL (+). BATTERY		10	1-535-866-11	CONDUCTOR, CONNECTION	
5		TERMINAL (-). BATTERY		LCD1	1-809-307-11	DISPLAY PANEL, LIQUID	CRYSTAL
6	3-363-356-01						

OTE:	
Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.	RESISTOR All resistor METAL: N
Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.	F: nonflar COILS uH: µH
-XX, -X mean standardized parts, so they may have some differences from the original one.	SEMICON In each of
CAPACITORS uF: µF	uA: μA uPB: μ uPD: μ

uF: μΙ	CITORS F					: μPD	PC: μPC,					
f. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Rema	
	A-3679-239-A	MAIN BOARD, CO	MPLETE			C23	1-124-434-00	ELECT	220uF	20%	4٧	
		*********				C24	1-124-430-00	ELECT	22uF	20%	47	
						C25	1-163-137-00	CERAMIC CHIP	680PF	5%	50 V	
	1-535-866-11	CONDUCTOR, CON	INECTION			C26	1-164-156-11	CERAMIC CHIP	0. 1uF		25V	
	3-363-312-03	TERMINAL (+).	BATTERY			C27	1-164-005-11	CERAMIC CHIP	0. 47uF		25V	
	3-363-313-01	TERMINAL (-).	BATTERY			Daniel Bir						
	3-363-356-01	HOLDER (A)				C28	1-163-077-00	CERAMIC CHIP	0. 1uF	10%	25V	
		1 1 1 1 1				C29	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V	
		< FILTER >				C30	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V	
		9 1272				C31	1-164-005-11	CERAMIC CHIP	0. 47uF		25V	
F1	1-239-061-11	ENCAPSULATED C	COMPONENT	(BPF)		C32	1-164-005-11	CERAMIC CHIP	0. 47uF		25V	
		· AIDIAITAD >				000	1 105 105 11	TANTAL, CHIP	10uF	20%	AV	
		< CAPACITOR >				C33			0. 01uF		25V	
	1 100 000 11	OCCUPANTO ONLD	10005	EN	EAV	C34		CERAMIC CHIP	0. 01uF		25V	
		CERAMIC CHIP	100PF	5%	50V	C35			0. 1uF		35V	
	1-126-154-11		47uF	20%	6. 3V	1		TANTALUM CHIP	0. 1uF		35V	
		CERAMIC CHIP	0. 01uF	10%	25V	C37	1-133-070-00	TANTALUM CHIP	u. iur	10%	224	
		CERAMIC CHIP	0. 01uF	10%	25V	000	1 104 424 00	CLEAT	220uF	20%	4V	
	1-164-357-11	CERAMIC CHIP	1000PF	5%	50V	C38	1-124-434-00			20%	4V	
	1 101 057 11	OCDANIO OUID	100005	EN	FAW	C39	1-124-433-00		100uF			
		CERAMIC CHIP	1000PF	5%	50V	C40	1-124-433-00		100uF	20%	4V 25V	
		CERAMIC CHIP	9PF	0. 5PF		C41		CERAMIC CHIP	0. 1uF	5%	50V	
0		CERAMIC CHIP	390PF	5%	50V	C42	1-102-953-11	CERAMIC CHIP	100PF	376	201	
1		CERAMIC CHIP	18PF	5%	50V	040	1 100 150 11	FLEAT	0005	200/	411	
2	1-162-970-11	CERAMIC CHIP	0. 01uF	10%	25V	C43	1-128-150-11		820uF	20%	44	
	1 100 070 11	05044110 01110	0 04 5	****	0511	C44		CERAMIC CHIP	0. 1uF	EN	25V	
3	1 1000 1000 100	CERAMIC CHIP	0. 01uF	10%	25V	C45		CERAMIC CHIP		5%	50V	
4		CERAMIC CHIP	2PF	0. 25PF		C46		TANTAL. CHIP	10uF	20%	4V	
5		CERAMIC CHIP	0. 01uF	10%	25V	C47	1-104-340-11	CERAMIC CHIP	1uF		16V	
		CERAMIC CHIP	0. 01uF	10%	25V	0.40	1 154 045 44	OCDANIO OUIO	15		1611	
7	1-164-346-11	CERAMIC CHIP	1uF		16V	C48		CERAMIC CHIP	1uF	Ea/	16V	
		FLEAT	125	200	FAM	C49	100000 177	CERAMIC CHIP	100PF	5%	50V	
8	1-126-163-11	The state of the s	4. 7uF	20%	50V	C50		CERAMIC CHIP	100PF	5%	50V	
3		CERAMIC CHIP	1uF		16V	C51		CERAMIC CHIP	100PF	5%	50V	
)		CERAMIC CHIP	470PF		50V	C52	1-104-156-11	CERAMIC CHIP	0. 1uF		25V	
		CERAMIC CHIP	0. 047uF	10%	25V	050	1 100 010 11	0504410 0110	1005	EAV	FOU	
2	1-124-430-00	ELECT	22uF	20%	4V	C53		CERAMIC CHIP	12PF	5%	50V	
						C54		CERAMIC CHIP	33PF	5%	50V	
						C55	1-162-953-11	CERAMIC CHIP	100PF	5%	50 V	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description			Re
C57	1-162-638-11	CERAMIC CHIP 1uF	16V	L5	1-406-269-41	COIL (OSC)			
C58	1-164-156-11	CERAMIC CHIP 0. 1uF	25V	L7	1-410-200-31	INDUCTOR CHIP	4. 7uH		
C59	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	L8	1-410-200-31	INDUCTOR CHIP	4. 7uH		
C60		CERAMIC CHIP 0. 1uF	25V	L9		INDUCTOR CHIP	200		
C61		CERAMIC CHIP 470PF	50V						
11 40	elois .	79		L10	1-410-200-31	INDUCTOR CHIP	4 7 uH		
C62	1-164-006-11	CERAMIC CHIP 0.33uF 10%	16V	L11		INDUCTOR CHIP	The state of		
C63			25V		1 410 200 01	INDUCTOR CITT	4. 7011		
C65			25V			/ DICDIAY DANG	1 \		
	1-162-953-11		The state of the s			< DISPLAY PANE	1)		
		The second secon	50V	1001	1 000 007 11	DIODLAY DANSI	1.101115	0011071	
C67	1-162-957-11	CERAMIC CHIP 220PF 5%	50V	LCD1	1-809-307-11	DISPLAY PANEL.	LIQUID	CRYSIA	L
		< FILTER >	9			< TRANSISTOR >			
051	1 567 000 11	CHITCH OCCUME	des la	0.1	0 700 005 10	TOANGLOTOR DI			
CF1		FILTER, CERAMIC		01		TRANSISTOR DTO			
CF2		FILTER. CERAMIC		02		TRANSISTOR DTA			
CF3		FILTER, CERAMIC		03		TRANSISTOR DTO			
CF4	1-577-658-81	FILTER, CERAMIC	-	04	8-729-905-18	TRANSISTOR DTO	144EU		
			A ALL DE	Q5	8-729-117-72	TRANSISTOR 250	4178-F13		
		< TRIMMER >	1						
			-	06	8-729-402-16	TRANSISTOR XN4	608		
CT1	1-141-327-11	CAP, VAR, TRIMMER (CHIP TYPE)	-	07	8-729-117-32	TRANSISTOR 250	4177-L6		
CT2	1-141-327-11	CAP. VAR. TRIMMER (CHIP TYPE)	10 10	0.8	8-729-117-32	TRANSISTOR 250	4177-L6		
		The state of the s		09	8-729-220-93	TRANSISTOR 25	209-G		
		< DIODE >	4	010	8-729-220-93	TRANSISTOR 25	209-G		
D1	8-719-945-31	DIODE SVC341-L		011	8-729-117-32	TRANSISTOR 250	1177-16		
D2	8-713-300-57			012		TRANSISTOR DTO			
D3	8-713-300-57		No. of the	412	0 123 321 00	THANGIOTON DIC	14410		
D4		DIODE SB007W03Q	DICIAKE			< RESISTOR >			
ne dans	0 710 000 76	DIODE 199226		D1	1 016 057 11	METAL CUID	111	EN	1/10
	8-719-800-76			R1	1-216-857-11		1M	5%	1/16
D6		DIODE RD13M-B2		R2	1-216-845-11		100K	5%	1/16
07	8-719-941-09	DIODE DAP202U		R3	1-216-845-11		100K	5%	1/16
				R4	1-216-833-11		10K	5%	1/16
		< 10 >		R5	1-216-857-11	METAL CHIP	1M	5%	1/16
101	8-752-050-00	IC CX20111		R6	1-216-837-11	METAL CHIP	22K	5%	1/16
102	8-759-804-98	IC LA3335M		R7	1-216-814-11	METAL CHIP	270	5%	1/16
1C3	8-759-802-75	IC LA4533M		R8	1-216-815-11	METAL CHIP	330	5%	1/16
104	8-759-947-95	1C S-8051HN-CD		R9	1-216-833-11	METAL CHIP	10K	5%	1/16
105	8-759-154-31	IC uPD1724GB-555-1A7	W. S. St.	R10	1-216-844-11	METAL CHIP	82K	5%	1/16
			SHEW N						
		< JACK >		R11	1-216-814-11	METAL CHIP	270	5%	1/16
			1010 10	R12	1-216-840-11		39K	5%	1/16
J1	1-580-237-11	JACK (HEADPHONE)		R13	1-216-809-11		100	5%	1/16
		A Comment of the Comm		R14	1-216-830-11		5. 6K	5%	1/16
		< JUMPER >		R15	1-216-830-11		5. 6K	5%	1/16
			aal						
JP1	1-216-864-11	METAL CHIP 0	antiffes of	R16	1-216-815-11	METAL CHIP	330	5%	1/16
JP2	1-216-864-11	METAL CHIP 0	29,40,000	R17	1-216-815-11	METAL CHIP	330	5%	1/16
			ADMINIST	R18	1-216-821-11	METAL CHIP	1 K	5%	1/16
		< COIL >		R19	1-216-841-11	METAL CHIP	47K	5%	1/16
-11	1 410 000 01	INDUCTOR CHIR 4 7 H		000	1 010 015 11	WETH OWN	100"	544	
LI		INDUCTOR CHIP 4. 7uH	101211	R20	1-216-845-11		100K	5%	1/16
L2		ANTENNA, FERRITE-ROD (AM)	THE DECK	R21	1-216-845-11		100K	5%	1/16
L3		COIL (WITH CORE)	1 1 6 6 4 4	R22	1-216-841-11		47K	5%	1/16
L4	1-428-209-11	COIL, AIR-CORE		R23	1-216-821-11	METAL CHIP	1 K	5%	1/16
			2 2						

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		mark
R24	1-216-809-11	METAL CHIP	100	5%	1/16W	\$9	1-572-481-11	SWITCH, KEY BOARD		
R25	1-216-845-11		100K	5%	1/16W			entrong wer bonne	(TUNE TIME SET	+)
R26	1-216-845-11		100K	5%	1/16W	\$10	1-572-481-11	SWITCH, KEY BOARD		.,
R27	1-216-809-11		100	5%	1/16W	0.10	1 012 401 11	OHITOH, KET DONNO	(TUNE TIME SET	-)
R28	1-216-821-11		1K	5%	1/16W				(TONE TIME SET	1
1120	1 210 021 11	METAL VIIII	IN	070	17 1011	\$11	1-572-402-11	SWITCH, KEY BOARD	(1 VEV) (ALADM)	
R29	1-216-821-11	METAL CHIP	1 K	5%	1/16W	\$12		SWITCH, KEY BOARD		
7			100			312	1-312-403-11	SWITCH, KET BUAKU	(I KEY) (IIMEK)	
R30	1-216-809-11			5%	1/16W			. TRINGFARIUS		
R31	1-216-864-11		0	***	4 44 000			< TRANSFORMER >		
R32	1-216-805-11		47	5%	1/16W					
R33	1-216-833-11	METAL CHIP	10K	5%	1/16W	T1		TRANSFORMER, IF		
			10.00	4200	0.000	T2	1-449-138-51	TRANSFORMER, DC-DC	CONVERTER	
R34	1-216-829-11		4.7K	5%	1/16W					
R35	1-216-833-11	METAL CHIP	10K	5%	1/16W			< CRYSTAL >		
R36	1-216-833-11	METAL CHIP	10K	5%	1/16W					
R37	1-216-832-11	METAL CHIP	8. 2K	5%	1/16W	X1	1-567-769-11	VIBRATOR, CRYSTAL		
R38	1-216-830-11	METAL CHIP	5. 6K	5%	1/16W					
						******	********	*******	******	****
R39	1-216-857-11	METAL CHIP	1M	5%	1/16W					
R40	1-216-841-11		47K	5%	1/16W		MI	SCELLANEOUS		
R41	1-216-821-11		1K	5%	1/16W			*****		
R42	1-216-809-11		100	5%	1/16W		***	*****		
R43	1-216-821-11		1K	5%	1/16W	10	1 525 000 11	CONDUCTOR CONNECT	LOW	
N43	1-210-021-11	METAL CHIP	14	376	1/1011			CONDUCTOR, CONNECT		
044	1 010 045 11	METAL CHIP	1004	E9/	1/1011	LCD1	1-809-307-11	DISPLAY PANEL, LIQ	UID CKYSTAL	
R44	1-216-845-11		100K	5%	1/16W					
R45	1-216-821-11		1K	5%	1/16W	******	*********	*******	******	*****
R46	1-216-821-11		1 K	5%	1/16W					
R47	1-216-821-11	A CONTRACTOR OF A CONTRACTOR O	1 K	5%	1/16W			Y & PACKING MATERIA	7	
R48	1-216-821-11	METAL CHIP	1 K	5%	1/16W		*****	*******	*	
R49	1-216-809-11	METAL CHIP	100	5%	1/16W		3-362-015-01	CASE, INDIVIDUAL		
R50	1-216-809-11		100	5%	1/16W			CASE, CARRYING		
R51	1-216-298-00		2. 2	5%	1/10W			MANUAL, INSTRUCTIO	M	
R52	1-216-298-00		2. 2	5%	1/10W		3-133-213-11			251
	1-216-821-11		1K	5%	1/16W		2 752 275 45	(ENGLISH, FRENCH, S		25)
R53	1-210-021-11	METAL CHIP	IX	376	1/10%		3-133-213-41	MANUAL, INSTRUCTIO (GERMAN, DUTCH, SW		EP, UK)
		< NETWORK RE	SISTOR >					HEADPHONE MDR-E753	//K SET	
RB1	1_226_621_11	RES. NETWORK					X-3321-270-1	ATTACHMENT		
NDI	1-230-031-11	NES, HEIMORK								
		< VARIABLE RE	SISTOR >			ſ		1 Free service	a manuale	
RV1		RES. ADJ. META				-	-	Gratis sc	hema's	
RV2	1-238-334-11	RES. VAR. CARI	BON 10K/1	OK (V	DLUME)					
		CHITCH						Digitized	Lby	
		< SWITCH >								
\$1	1-572-485-11	SWITCH, SLIDE	(MONO/ST)				www.f	reeservicemanu	ials.info	
\$2		SWITCH, SLIDE								
\$4		SWITCH, KEY BO			(ND)					
\$5		SWITCH, KEY BO	The second secon	-7 TO 10 TO						
00	1 012-402-11	OHITOI, KLI DI		The state of the s	RISET +)					
\$6	1-572-402-11	SMITCH NEV DA	DARD (1 P	EVI						
30	1-312-402-11	SWITCH, KEY BO	201000000000000000000000000000000000000	CAMPBELL PROPERTY.	DISET -					
\$7	1 570 101 01	CMITCH VEV DA			RISET -)					
		SWITCH, KEY BO			TIER/GLOCK)					
\$8	1-3/2-481-11	SHILLIN, KET BO			/POWER)					

(AUTO OFF/POWER)

Sony Corporation
Personal Communication Group