# MDR-RF950

## **SERVICE MANUAL**

Ver 1.0 1998.06

US Model Canadian Model



MDR-RF950 is headphones in MDR-RF950RK.

#### **SPECIFICATIONS**

#### General

Carrier frequency

913.0 - 915.0 MHz

Channel Ch1, Ch2, Ch3
Modulation FM stereo

Frequency response

18 – 22,000 Hz

**Headphones** 

Mass

Power source DC 3 V: 2 × R6 (size AA) battery or

2 × supplied NC-AA-HJ Ni-Cd rechargeable battery

Approx. 265 g (9.4 oz.) incl.

Ni-cd batteries

Design and specifications are subject to change without notice.

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#### 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.

**WIRELESS STEREO HEADPHONES** 





This section is extracted from instruction manual.

#### Setting up the headphones

1 Open the battery compartment lid on the left outer side of the head band.



2 Insert two charged NC-AA-HJ batteries by matching the ◆ and ◆ on the batteries to the ◆ and ◆ in the battery compartment.



3 Close the battery compartment lid.



Using the headphones with a commercially available size AA (R6) dry batteries
Install the batteries in the manner as described in "Setting up the headphones."

#### Battery life

Battery	Approx. hours*
Sony alkaline battery SG (LR6)	60
Sony battery SR (R6P)	30

\* at 1 kHz, 1 mW + 1 mW output

#### Notes on batteries

To avoid damage to the system caused by battery leakage and corrosion;

Install the batteries with the correct polarity.

Do not try to recharge dry batteries.

Remove the batteries if the system is not to be used for a long period of time.

In case of battery leakage, wipe off any deposit in the battery compartments before installing new

Check the remaining power of the headphones' battery
Pull up the self adjusting band, and check that the headphones' power indicator lights in red. You can now use the headphones.
Charge the battery or install a new dry battery, if the power indicator light is weak or turned off and the sound become distorted or has a lot of noise.



During recharging, the transmitter is turned off. When the life of the rechargeable batteries are she by half even after a proper recharging, replace th with new NC-AA-HJ batteries.

#### SECTION 1 **GENERAL**

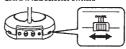
#### > Operating the system

#### Listening to a program

First turn on the audio/video equipment, then the transmitter.



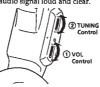
2 Select the radio frequency with the CHANNEL selector switch.



3 Put on the headphones and the power turns on automatically



4 Turn up the volume to a moderate level with the VOL control, then tune the headphones to the transmitte frequency with the TUNING control until you can hear the audio signal loud and clear.



Try the above steps 2 and 4 until the receiving performance becomes better.

Sending RF signals from the Transmitter
The transmitter starts sending the RF signals
automatically, when the transmitter power is
turned on, and audio signals from the connected
equipment is detected.
If it does not detect an audio signal for more than
approximately five minutes, the transmitter will
stop sending RF signals.
But the Power indicator remains lighting. When

But the Power indicator remains lighting. When the transmitter receives an audio signal again, it starts sending the RF signals. If the audio signal is very weak, the transmitter does not send RF signals automatically. In this case, make sure the volume of the equipment connected is set to 5 – 6. You may not hear the beginning of the sound from the headphones until the transmitter starts sending the RF signals after detecting an audio signal.

Note
If the transmitter is connected to the headphones lack of
the source equipment, set the volume of that equipment as
high as possible without distorting the audio signal.

#### Auto power on/off function

When you remove the headphones, the power turns off automatically. Do not allow the self adjusting band to be pulled up, otherwise the headphones will be switched on





#### Mute function If a hissing noise is heard when the headphones are used outside of the effective range (see the next section), the mute function will be activated and the sound will not be heard from the headphones. To restore the sound, move near toward the

After listening to a program Take the headphones off and rest them away on the holder of the transmitter as shown below.

Holder Self adjusting band

Note
Do not hang the headphones by the self adjusting band,
otherwise, the self adjusting band will be pulled up and
the headphones will be switched on.

#### The effective areas of the transmitter

The optimum distance is up to approximately 150 feet (46 m) without the system picking up some interference. However, the distance may vary according to the surroundings and environment. If the system picks up some noise while using it within the above mentioned distance, reduce the distance between the transmitter unit and the handborner or select the others that the headphones, or select the other channel.

- Notes

  \* When you use the headphones inside the effective areas of the transmitter, the transmitter can be placed in any direction from the listener.

  \* Even within the signal reception area, there are some spots (dead spot) where the RF signal can not be received. This characteristics is inherent to RF signals, and does not indicate mellination. By slighly moving the transmitter, location of the dead spot can be changed.

#### Replacing the ear pads

When the ear pads become dirty or damaged, you can get replacements from your Sony dealer.
Replace them as illustrated below.

Remove the old ear pad by pulling it out of the groove on the housing.



Place the new ear pad on the driver unit and insert the edge of the pad into the groove as illustrated.



Make sure that the entire edge of the ear pad is securely inserted into the groove.

### **►** Additional information

#### **Precautions**

- When the headphones are not to be used for a long period of time, remove the batteries to avoid damage caused by battery leakage and subsequent corrosion.
  When the transmitter is not to be used for a long
- when the transmitter is not to be used for a to period of time, disconnect the AC power adaptor from the AC outlet holding the plug. Do not pull on the cord. Also remove the batteries to avoid damage caused by battery leakage and subsequent correction.
- Do not leave the wireless stereo headphone system in a location subject to direct sunlight, heat or moisture.

### Notes on headphones Preventing hearing damage

Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce the volume or discontinue use.

#### Caring for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

If you have any questions or problems concerning the system that are not covered in this manual, please consult the nearest Sony dealer.

Be sure to bring the headphones and the transmitter to the Sony dealer when requiring repair work.

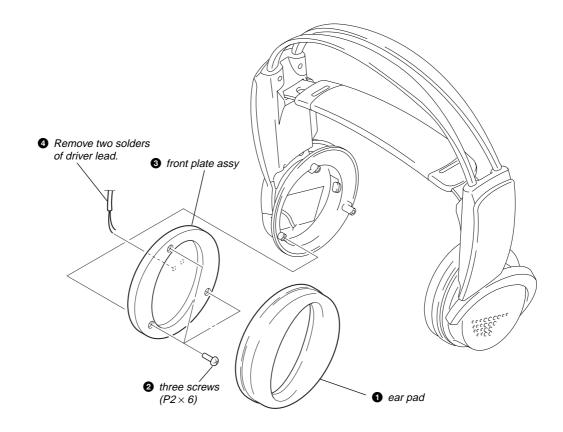
## SECTION 2 DISASSEMBLY

• This set can be disassembled in the order shown below.

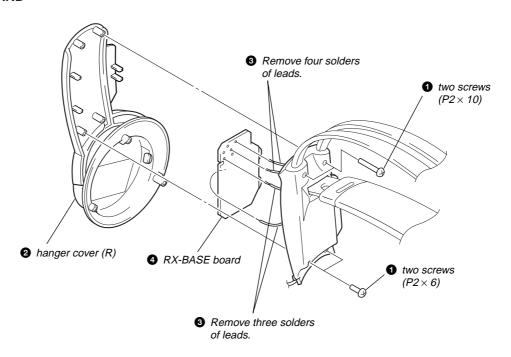


**Note:** Follow the disassembly procedure in the numerical order given.

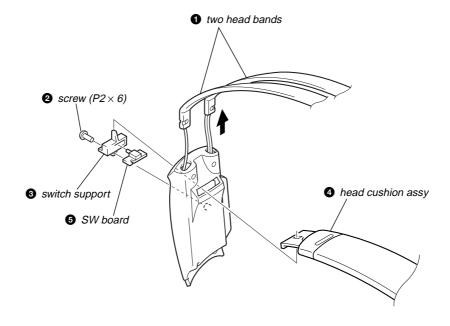
#### FRONT PLATE ASSY



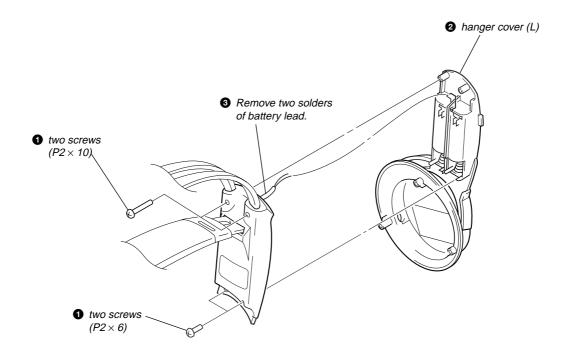
#### **RX-BASE BOARD**



#### SW BOARD



### HANGER COVER (L)



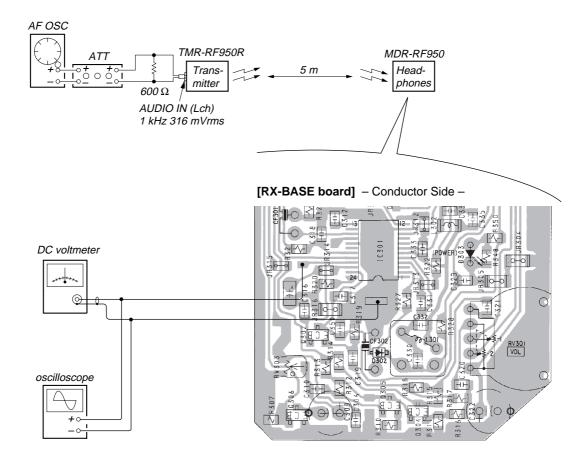
## SECTION 3 ELECTRICAL ADJUSTMENTS

#### Note:

- 1. The adjustments should be performed in the order given.
- 2. The transmitter (TMR-RF950R) already checked and adjusted should be used.

#### 3-1. Receiving Frequency Check and Adjustment

#### **Preparation:**

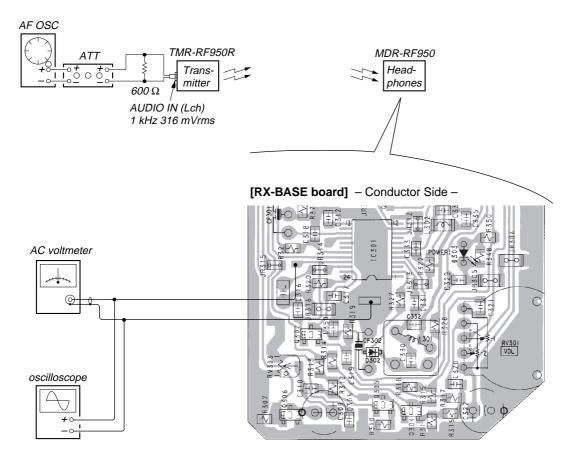


#### **Procedure:**

- 1. Set the channel of the transmitter to CH2.
- 2. Turn OFF the noise filter switch on the transmitter.
- 3. Enter 1 kHz 316 mVrms signal only to the Lch on the transmitter.
- 4. Place the transmitter away from the headphone (MDR-RF950) more than 5 m.
- 5. Set the volume control (RV301) on the RX-BASE board to the minimum position.
- 6. Set the tuning control (RV302) on the RX-BASE board to the center position.
- 7. Connect a DC voltmeter and an oscilloscope between IC301 pin 20 and ground on the RX-BASE board.
- 8. After confirming that demodulated 1 kHz waveform (about 13 mV) appears on the oscilloscope, check that the DC voltmeter indicates DC1 V to 1.2 V.
- 9. If demodulated 1 kHz waveform does not appear on the oscilloscope, or if the voltage is out of the specified value, adjust the air-core coil (L301) on the RX-BASE board so that the demodulated 1 kHz waveform appears on the oscilloscope, and under this condition, adjust finely the air-core coil (L301) so that the DC voltmeter indicates DC1.1 V.
- 10. Finally, check that signals are received when the channel is changed over to CH1/CH3 on the transmitter, then when the tuning control (RV302) on the RX-BASE board is rotated.

Adjustment Location: RX-BASE board (See page 9.)

### 3-2. Degree of Modulation of Main Carrier (L + R) Check and Adjustment Preparation:



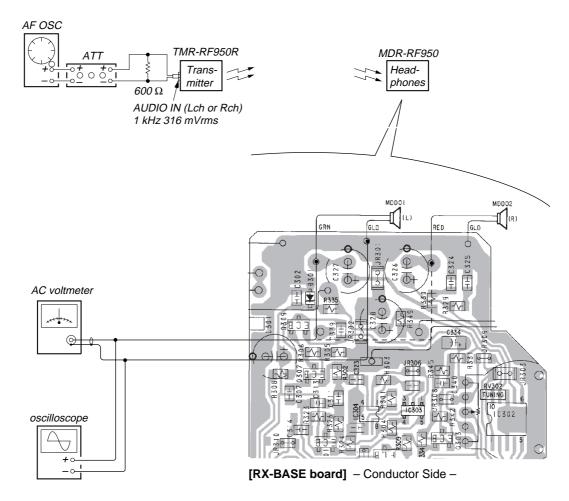
#### **Procedure:**

- 1. Set the channel of the transmitter to CH2.
- 2. Turn OFF the noise filter switch on the transmitter.
- 3. Enter 1 kHz 316 mVrms signal only to the Lch on the transmitter.
- 4. Set the volume control (RV301) on the RX-BASE board to the minimum position.
- 5. Connect an AC voltmeter and an oscilloscope between IC 301 pin 20 and ground on the RX-BASE board.
- 6. Rotating the tuning control (RV302) on the RX-BASE board, receive signals.
- 7. After confirming that demodulated 1 kHz waveform appears on the oscilloscope, check that the AC voltmeter indicates 12 mVrms to 15 mVrms.
- 8. If out of the specified value, rotate RV404 on the TX-BASE board in the transmitter (TMR-RF950R) so as to attain 13.5 mVrms.

Adjustment Location: TX-BASE board in the transmitter (TMR-RF950R) (See page 8.)

#### 3-3. Separation Check and Adjustment

#### Preparation:



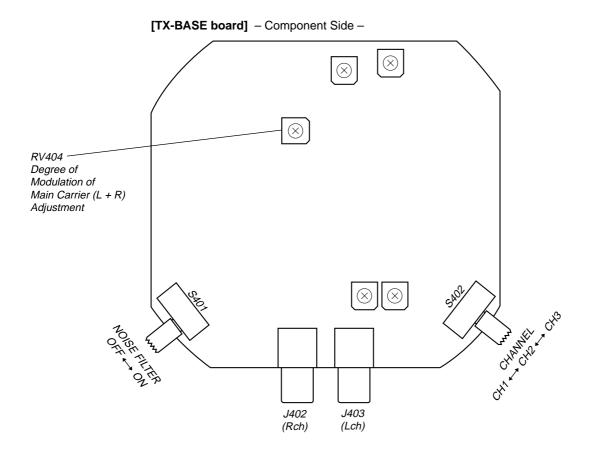
#### **Procedure:**

- 1. Set the channel of the transmitter to CH2.
- 2. Turn OFF the noise filter switch on the transmitter.
- 3. Enter 1 kHz 316 mVrms signal only to the Lch on the transmitter.
- 4. Connect an AC voltmeter and an oscilloscope to the Lch speaker output (both ends of MDD01) on the RX-BASE board.
- 5. Rotating the tuning control (RV302) on the RX-BASE board, receive signals.
- 6. Adjust the volume control (RV301) on the RX-BASE board so that the Lch speaker output (both ends of MDD01) on the RX-BASE board becomes 155 mVrms.
- 7. Connect an AC voltmeter and oscilloscope to the Rch speaker output (both ends of MDD02) and measure voltage.
- 8. Check that a difference in speaker output level between Lch and Rch (i. e., separation) is over 20 dB. If not over 20 dB, rotate RV303 on the RX-BASE board to minimize the Rch output, then reconfirm that a difference in speaker output level between Lch and Rch is over 20 dB.
- 9. Enter 1kHz 316 mVrms signal only to the Rch on the transmitter.
- 10. Adjust the volume control (RV301) on the RX-BASE board so that the Rch speaker output (voltage across MDD02) on the RX-BASE board become 155 mVrms.
- 11. Connect an AC voltmeter and oscilloscope to the Lch speaker output (both ends of MDD01) and measure voltage.
- 12. Check that a difference in speaker output level between Lch and Rch (i.e., separation) is over 20 dB.

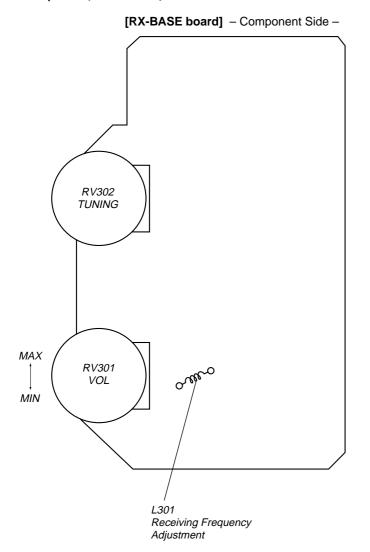
Adjustment Location: RX-BASE board (See page 9.)

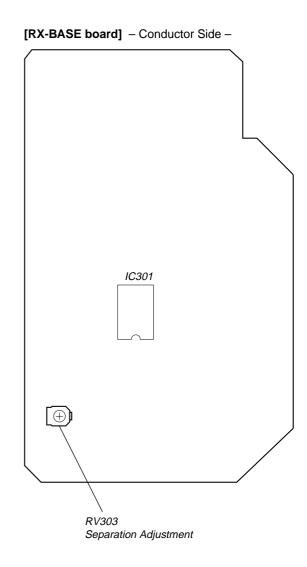
#### **Adjustment Location:**

#### Transmitter (TMR-RF950R)



#### Headphone (MDR-RF950)

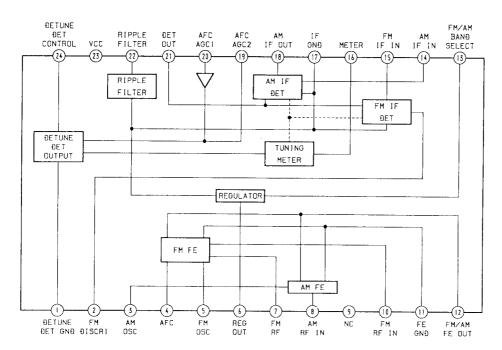




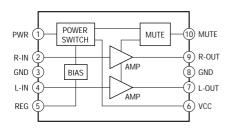
## **SECTION 4 DIAGRAMS**

#### • IC Block Diagrams

#### IC301 CXA1611N-T4



#### IC302 LA4533M



## SECTION 5 EXPLODED VIEWS

#### NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:

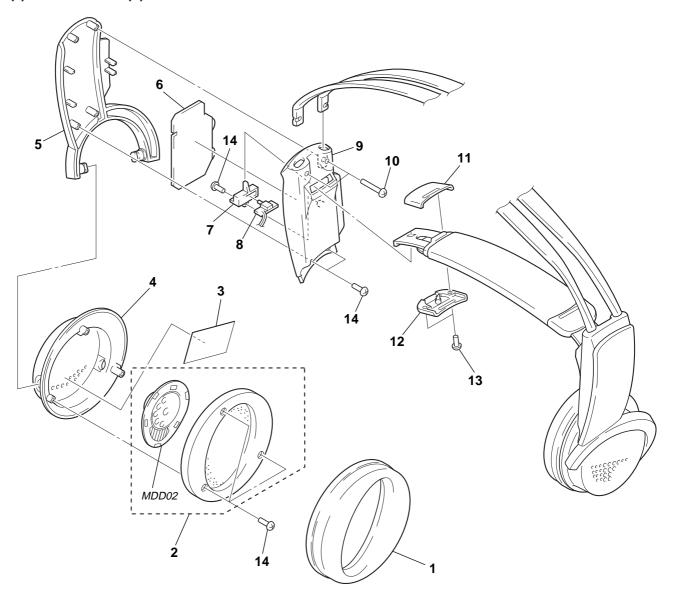
KNOB, BALANCE (WHITE) . . . (RED)

↑

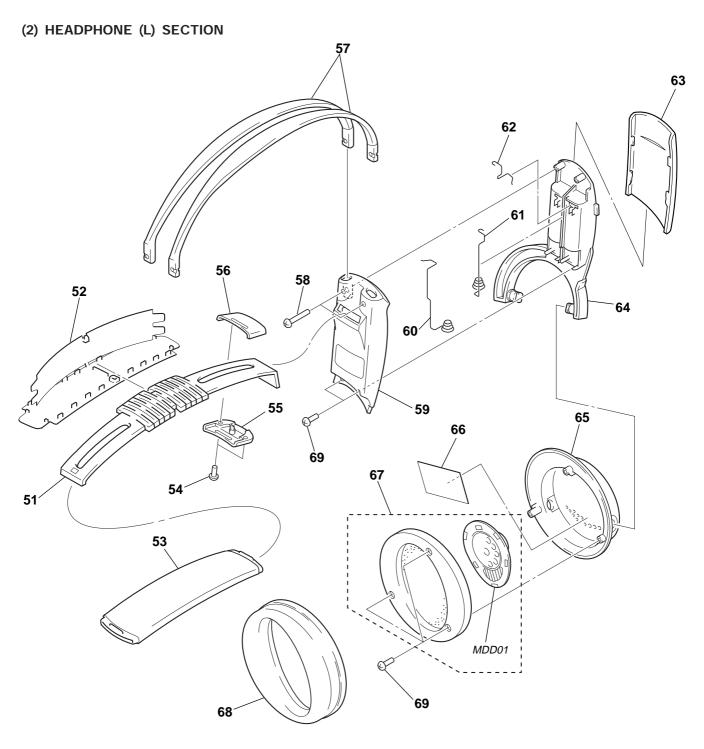
Parts Color Cabinet's Color

- 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 supplied.

#### (1) HEADPHONE (R) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	<u>Remark</u>
1	4-971-700-01	PAD, EAR		9	4-999-767-01	HANGER (R)	
2	X-4950-190-1	PLATE (R) ASSY, FRONT		10	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
3	4-999-774-01	REGISTER, HOUSING		11	4-966-791-11	STOPPER (UPPER)	
4	4-999-773-01	HOUSING (R)		12	4-966-792-11	STOPPER (LOWER)	
5	4-999-769-11	COVER (R), HANGER		13	3-318-203-62	SCREW (B1.7X4), TAPPING	
* 6	A-4542-518-A	RX-BASE BOARD, COMPLETE		14	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	
7	4-210-255-01	SUPPORT, SWITCH		MDD02	1-505-117-21	DRIVER (R-CH)	
* 8	1-670-527-11	SW BOARD					



Ref. No.	Part No.	<u>Description</u>	Remark	Ref. No.	Part No.	<u>Description</u>	Remark
51	4-999-771-01	SUSPENDER		61	4-210-257-01	TERMINAL (-), BATTERY	
52	4-978-518-02	BASE, SUSPENDER		62	4-210-256-01	TERMINAL (+), BATTERY	
53	4-978-519-01	CUSHION, HEAD		63	4-999-770-11	LID, BATTERY CASE	
54	3-318-203-62	SCREW (B1.7X4), TAPPING		64	4-999-768-01	COVER (L), HANGER	
55	4-966-792-11	STOPPER (LOWER)		65	4-999-772-01	HOUSING (L)	
56	4-966-791-11	STOPPER (UPPER)		66	4-999-774-01	REGISTER, HOUSING	
57	4-999-765-01	BAND, HEAD		67	X-4950-189-1	PLATE (L) ASSY, FRONT	
58	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT		68	4-971-700-01	PAD, EAR	
59	4-999-766-11	HANGER (L) (US)		69	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	
59	4-999-766-21	HANGER (L) (Canadian)		MDD01	1-505-117-21	DRIVER (L-CH)	
60	4-210-258-01	TERMINAL (MIDWAY), BATTERY					

## SECTION 6 ELECTRICAL PARTS LIST

FE RX-BASE

#### NOTE:

- 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.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL: Metal-film resistor.

METAL OXIDE: Metal oxide-film resistor.

F: nonflammable

 Items marked "\*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

 $\begin{array}{lll} \text{In each case, u: } \mu, \text{ for example:} \\ uA. & : \mu A. & uPA. & : \mu PA. \\ uPB. & : \mu PB. & uPC. & : \mu PC. \\ uPD. & : \mu PD. & . \end{array}$ 

• CAPACITORS uF: µF

• COILS uH: μH When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			<u>Remark</u>	Ref. No.	Part No.	Description			<u>Remark</u>
		FE BOARD				L2	1-469-237-21	INDUCTOR	0.68uH		
		******				L3		INDUCTOR CHIE	2 12nH		
		(Included in RX-BASE BOARD, COM		OMPLETE)	L4 1-414-665-11 INDUCTOR CHIP 12nH						
						L5 1-414-660-11 INDUCTOR CHIP 4.7nH					
		< CAPACITOR >	•			L6	1 /1/ 660 11	INDUCTOR CHIF	) 17nU		
C1	1-162-906-11	CERAMIC CHIP	1.5PF	0.25PF	50V	LO	1-414-000-11	INDUCTOR CITIE	4./1111		
C2		CERAMIC CHIP		5%	50V			< TRANSISTOR	>		
C3		CERAMIC CHIP		10%	50V						
C4	1-162-908-11	CERAMIC CHIP	3PF	0.25PF	50V	Q1	8-729-046-22	FET 3SK240 (T	E85L)		
C5	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	Q3	8-729-230-81	TRANSISTOR 2	2SC3606		
						Q4	8-729-232-73	TRANSISTOR 2	2SC4320 (TE	85L)	
C6	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						
C8	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V			< RESISTOR >			
C9	1-162-920-11	CERAMIC CHIP	27PF	5%	50V						
C10	1-162-905-11	CERAMIC CHIP	1PF	0.25PF	50V	R1	1-216-845-11	METAL CHIP	100K	5%	1/16W
C12	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	R4	1-216-853-11	METAL CHIP	470K	5%	1/16W
						R5	1-216-845-11	METAL CHIP	100K	5%	1/16W
C13	1-162-905-11	CERAMIC CHIP	1PF	0.25PF	50V	R7	1-216-809-11	METAL CHIP	100	5%	1/16W
C14	1-162-925-11	CERAMIC CHIP	68PF	5%	50V	R8	1-218-293-11	RES,CHIP	24K	5%	1/16W
C15	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C16	1-162-906-11	CERAMIC CHIP	1.5PF	0.25PF	50V	R10	1-216-845-11	METAL CHIP	100K	5%	1/16W
C17	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R11	1-216-810-11	METAL CHIP	120	5%	1/16W
						R12	1-216-809-11	METAL CHIP	100	5%	1/16W
C20	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						
C21	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V			< CAPACITOR >			
C23	1-162-906-11	CERAMIC CHIP	1.5PF	0.25PF							
C24		CERAMIC CHIP		0.25PF		THC1	1-104-511-51	CERAMIC 0.0	)01uF		
C28	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	THC2	1-111-231-43				
						THC3	1-111-231-43	CERAMIC 2P	F 99%		
C30		CERAMIC CHIP		5%	50V						
C39		CERAMIC CHIP		10%	50V			< SAW RESONA	NTOR >		
C40		CERAMIC CHIP		0.25PF							
C41		CERAMIC CHIP		0.25PF		X1		RESONANTOR,			
C43	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	*******	*********	**********	*******	*****	******
C44	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	*	A-4542-518-A	RX-BASE BOARI			
		< IC >						******			E BOARD)
		(10)							(111)	cidaling i	L DOMND)
IC1	8-759-469-63	IC S-81215SG	UP-DQK-T1					< CAPACITOR >			
		< RESISTOR >				C301	1-126-154-11	FLFCT	47uF	20%	6.3V
		· ILLOIDI OIL >				C302		CERAMIC CHIP	0.22uF	10%	16V
JR1	1-216-864-11	METAL CHIP	0	5%	1/16W	C303		CERAMIC CHIP	33PF	5%	50V
JR2	1-216-864-11		0	5%	1/16W	C306		CERAMIC CHIP	0.022uF	10%	25V
0.12	. 2.0 00. 11		Ü	3,0		C307		CERAMIC CHIP	150PF	5%	50V
		< COIL >									
						C309	1-126-572-11	ELECT	4.7uF	20%	35V
L1	1-469-237-21	INDUCTOR	0.68uH			C310	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V

### **RX-BASE**

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
C311	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	JR311	1-216-295-00	SHORT	0		
C312		CERAMIC CHIP	0.01uF	10%	50V	011011	. 2.0 270 00	0	Ü		
C313	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	JR312	1-216-295-00	SHORT	0		
						JR313	1-216-295-00		0		
C314		CERAMIC CHIP	220PF	5%	50V	JR314	1-216-295-00		0		
C315	1-124-233-11		10uF	20%	16V 50V	JR315	1-216-295-00		0		
C316 C317		CERAMIC CHIP CERAMIC CHIP	0.015uF 0.01uF	5% 10%	50V 50V	JR316	1-216-296-00	SHUKT	U		
C318		CERAMIC CHIP	1uF	1070	16V			< COIL >			
C319		CERAMIC CHIP	2.2uF		16V	L301	1-416-796-11	COIL, AIR-COF	RE		
C320		CERAMIC CHIP	1uF		16V	L302	1-412-933-11	INDUCTOR	0.33uH		
C321		CERAMIC CHIP	1uF	200/	16V			TDANCICTO	2		
C322 C323	1-124-242-00	CERAMIC CHIP	33uF 47PF	20% 5%	25V 50V			< TRANSISTOR	ζ>		
0323	1 103 243 11	OLIVIIVIIO OIIII	7711	370	30 V	Q301	8-729-230-49	TRANSISTOR	2SC2712-YC	à	
C324	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	Q302	8-729-230-49	TRANSISTOR	2SC2712-YC	ì	
C325		CERAMIC CHIP	0.1uF	10%	25V	Q303		TRANSISTOR			
C326	1-124-434-00		220uF	20%	4V	Q304		TRANSISTOR			
C327	1-124-434-00		220uF	20%	4V	Q305	8-729-230-49	TRANSISTOR	2SC2712-YC	ì	
C328	1-124-434-00	ELECT	220uF	20%	4V	Q306	0 720 020 21	TRANSISTOR	DTC242TV		
C329	1-164-346-11	CERAMIC CHIP	1uF		16V	Q307		TRANSISTOR		<u> </u>	
C330		CERAMIC CHIP	0.001uF	10%	50V	Q308		TRANSISTOR			
C331	1-163-224-11	CERAMIC CHIP	7PF	0.25PF	50V	Q309	8-729-027-36	TRANSISTOR	DTA143XKA	-T146	
C332		CERAMIC CHIP	68PF	5%	50V						
C333	1-163-021-00	CERAMIC CHIP	0.01uF	10%	50V			< RESISTOR >			
C334	1-124-233-11	FLECT	10uF	20%	16V	R301	1-216-121-00	DES CHID	1M	5%	1/10W
C335		CERAMIC CHIP	56PF	5%	50V	R302	1-216-121-00		150K	5%	1/10W
C336		CERAMIC CHIP	56PF	5%	50V	R303	1-216-081-00		22K	5%	1/10W
C337	1-163-021-00	CERAMIC CHIP	0.01uF	10%	50V	R304	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
C338	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V	R305	1-216-103-00	RES,CHIP	180K	5%	1/10W
C339	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V	R306	1-216-113-00	METAL CHIP	470K	5%	1/10W
C340		CERAMIC CHIP	1uF		16V	R307	1-216-097-00		100K	5%	1/10W
C341	1-164-161-11	CERAMIC CHIP	2200PF	5%	50V	R308	1-216-073-00	METAL CHIP	10K	5%	1/10W
C350	1-163-021-00	CERAMIC CHIP	0.01uF	10%	50V	R309	1-216-089-00	•	47K	5%	1/10W
		< CERAMIC FILTE	-R >			R310	1-216-041-00	METAL CHIP	470	5%	1/10W
		, 02.0.000				R311	1-216-049-11	RES,CHIP	1K	5%	1/10W
CF301	1-577-588-11	FILTER, CERAMIC	2			R312	1-216-113-00	METAL CHIP	470K	5%	1/10W
CF302	1-567-163-11	FILTER, CERAMIC	2				1-216-061-00		3.3K	5%	1/10W
		DIODE				R314	1-216-051-00		1.2K	5%	1/10W
		< DIODE >				R315	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
D301	8-719-045-99	DIODE RD2.2M-	-T1B			R316	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
D302	8-719-002-81	DIODE 1T363				R317	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
D303	8-719-066-69	LED BR2434D (P	OWER)			R318	1-216-067-00		5.6K	5%	1/10W
		10				R319	1-216-061-00		3.3K	5%	1/10W
		< IC >				R320	1-216-097-00	RES,CHIP	100K	5%	1/10W
IC301	8-752-066-93	IC CXA1611N-T	4			R321	1-216-093-00	METAL CHIP	68K	5%	1/10W
IC302	8-759-802-75					R322	1-216-093-00		68K	5%	1/10W
IC303	8-759-195-02	IC TC7S86F-TE8	35L			R323	1-216-125-00	METAL CHIP	1.5M	5%	1/10W
IC304	8-759-096-87	IC TC7WU04FU	(TE12R)			R324	1-216-025-00		100	5%	1/10W
		< SHORT >				R325	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
		· JHORT /				R326	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
JR301	1-216-296-00	SHORT	0			R327	1-216-025-00	RES,CHIP	100	5%	1/10W
JR302	1-216-296-00		0			R328	1-216-077-00		15K	5%	1/10W
JR303	1-216-296-00		0			R329	1-216-001-00		10	5%	1/10W
JR304 JR305	1-216-296-00 1-216-296-00		0			R330	1-216-001-00	IVIETAL CHIP	10	5%	1/10W
	/0 00		-			R331	1-216-097-00	RES,CHIP	100K	5%	1/10W
JR306	1-216-295-00		0			R334	1-216-097-00		100K	5%	1/10W
JR308	1-216-295-00		0			R335	1-216-029-00		150	5%	1/10W
JR309	1-216-295-00		0			R342	1-216-062-11		3.6K	5%	1/10W
JR310	1-216-295-00	SHUKI	0			R345	1-216-089-11	IVIE IAL CHIP	47K	5%	1/10W

### **RX-BASE**

SW

Ref. No.	Part No.	<u>Description</u>			Remark
R348 R349 R350	1-216-069-00 1-216-001-00 1-216-053-00	METAL CHIP	6.8K 10 1.5K	5% 5% 5%	1/10W 1/10W 1/10W
		< VARIABLE RES			
RV301	1-223-968-11	RES VAR CARRO	∩N 20K/20k	(VOL)	

\* 1-670-527-11 SW BOARD

< SWITCH >

SW1 1-572-467-61 SWITCH, PUSH (1 KEY) (POWER)

MISCELLANEOUS

MDD01 1-505-117-21 DRIVER (L-CH) MDD02 1-505-117-21 DRIVER (R-CH)

### MDR-RF950

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