

# MDR-IF8000

## SERVICE MANUAL

Ver 1.1 2002.03



*US Model  
Canadian Model  
AEP Model  
UK Model*

- MDR-IF8000 is the component model block one in MDR-DS8000.

#### COMPONENT MODEL NAME FOR MDR-DS8000

DIGITAL SURROUND PROCESSOR	DP-IF8000
CORDLESS STEREO HEADPHONES	MDR-IF8000

#### SPECIFICATIONS

Playback frequency range  
Power requirements

12 – 24,000 Hz  
Rechargeable nickel metal hydride  
batteries (supplied or sold separately)  
or R6 (size AA) alkaline batteries  
Approx. 350 g (10 oz)(including the  
supplied rechargeable nickel-metal  
hydride batteries)

Mass

### CORDLESS STEREO HEADPHONES

9-873-527-02  
2002C0200-1  
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Personal Audio Company  
Published by Sony Engineering Corporation

# SONY®

**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.

**Flexible Circuit Board Repairing**

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Repair MDR-IF8000 and DP-IF8000 in a pair.

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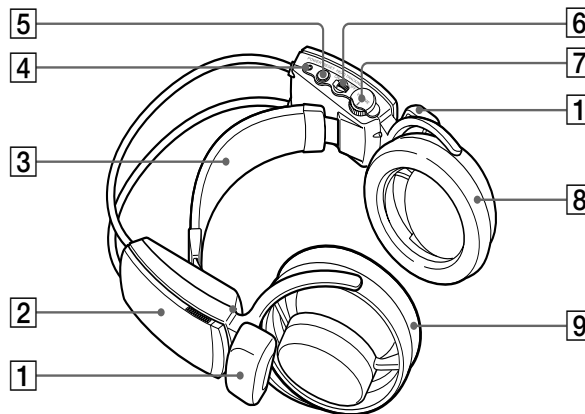
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**SECTION 1  
GENERAL**

This section is extracted from instruction manual.

**LOCATING THE CONTROLS**



**1 Infrared sensor**

There are infrared sensors in two locations on both sides.

**2 Battery case**

Press and lift up the lid to open it. This battery case is for the supplied rechargeable batteries and R6 (size AA) alkaline batteries only.

**3 Self-adjusting band**

The headphones automatically turn on when you put on the headphones.

**4 POWER indicator**

By pulling up the self-adjusting band, the indicator lights red when battery power is sufficient.

**5 RESET button (See page 21 for details)**

Use to reset the location information of the head tracking function.

**6 HEAD TRACKING switch (See page 21 for details)**

To activate the head tracking function, switch it to ON when the output mode of the processor is set to VIRTUAL (other than OFF).

**7 VOL (Volume) control**

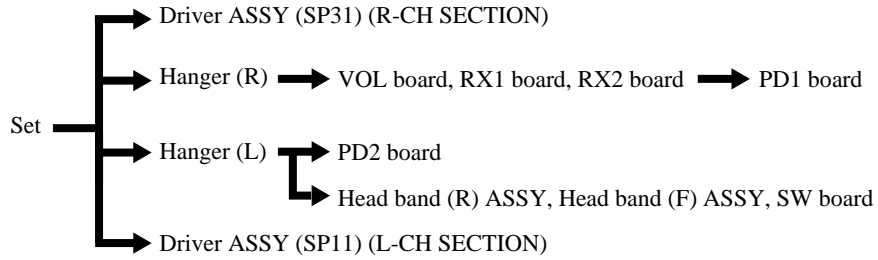
Use to adjust the volume.

**8 Ear pad (right)**

**9 Ear pad (left)**

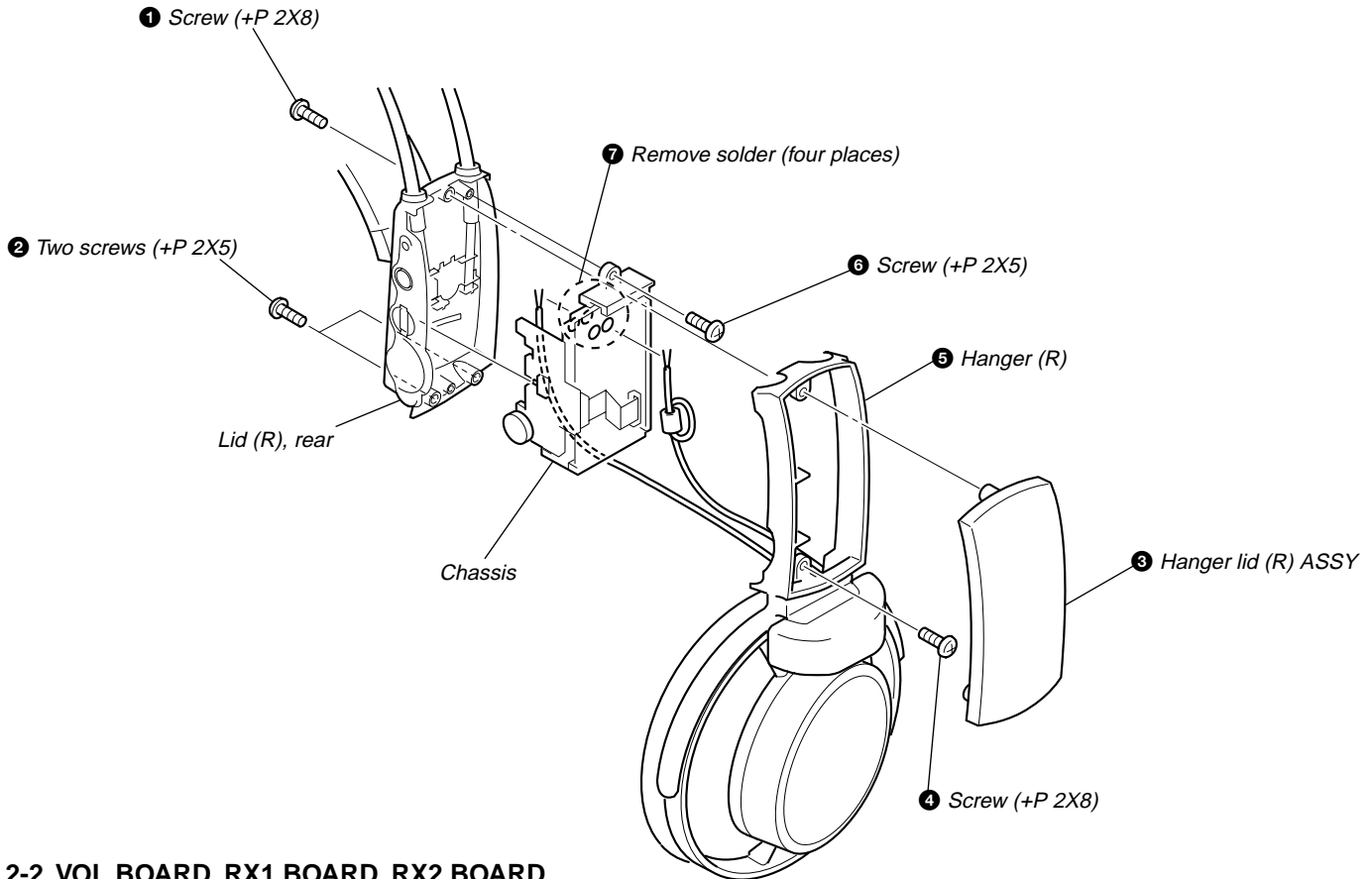
## SECTION 2 DISASSEMBLY

• The equipment can be removed using the following procedure.

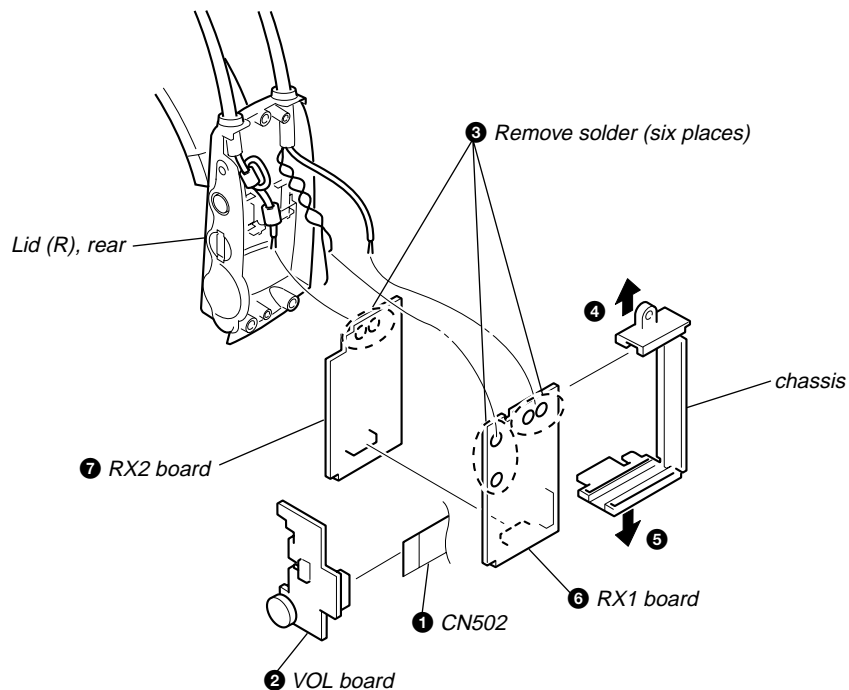


**Note :** Follow the disassembly procedure in the numerical order given.

### 2-1. HANGER (R)

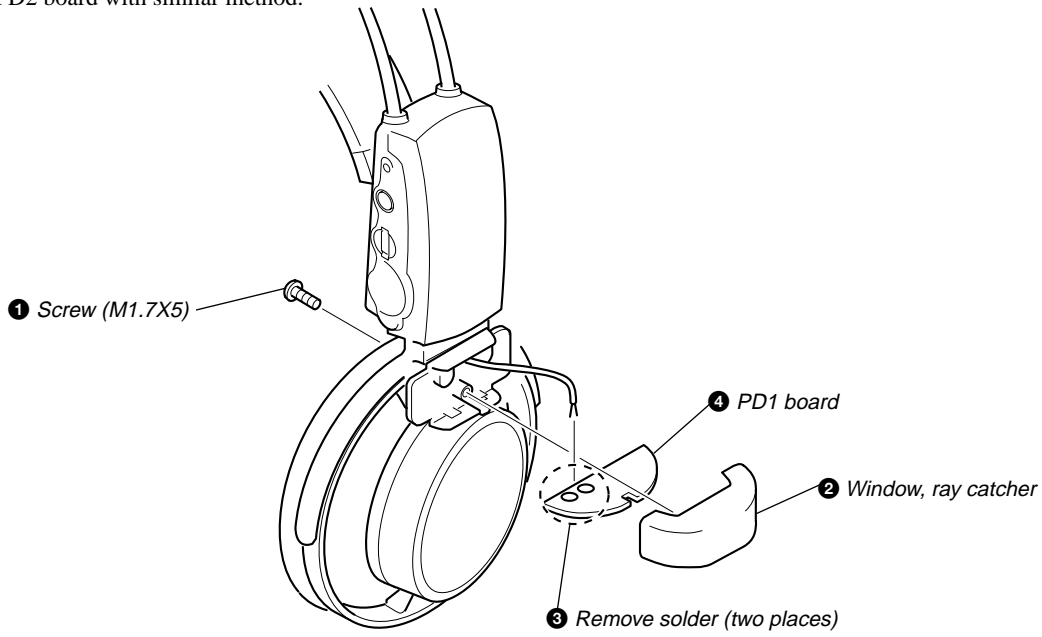


### 2-2. VOL BOARD, RX1 BOARD, RX2 BOARD



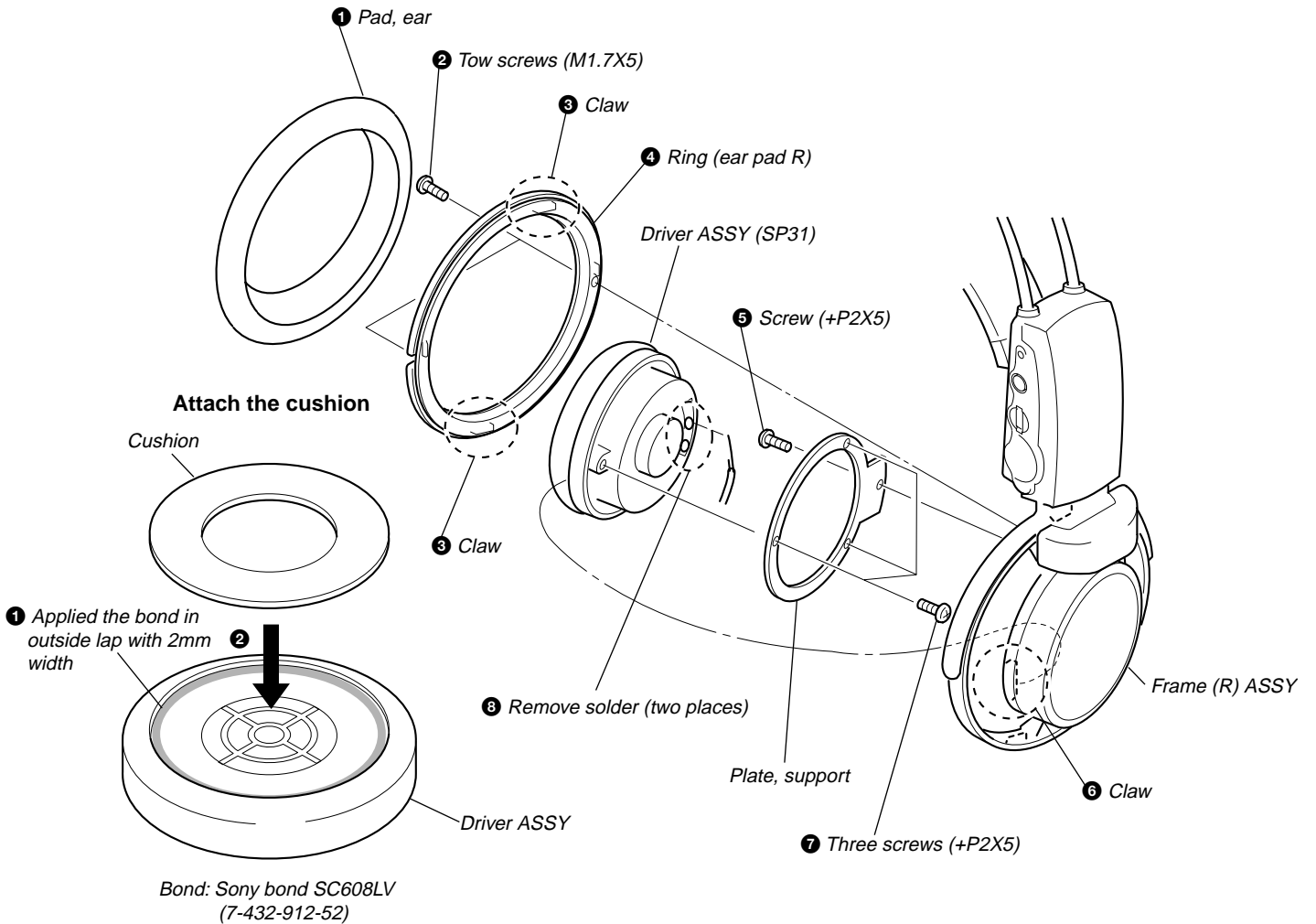
2-3. PD1 BOARD

• Can remove PD2 board with similar method.

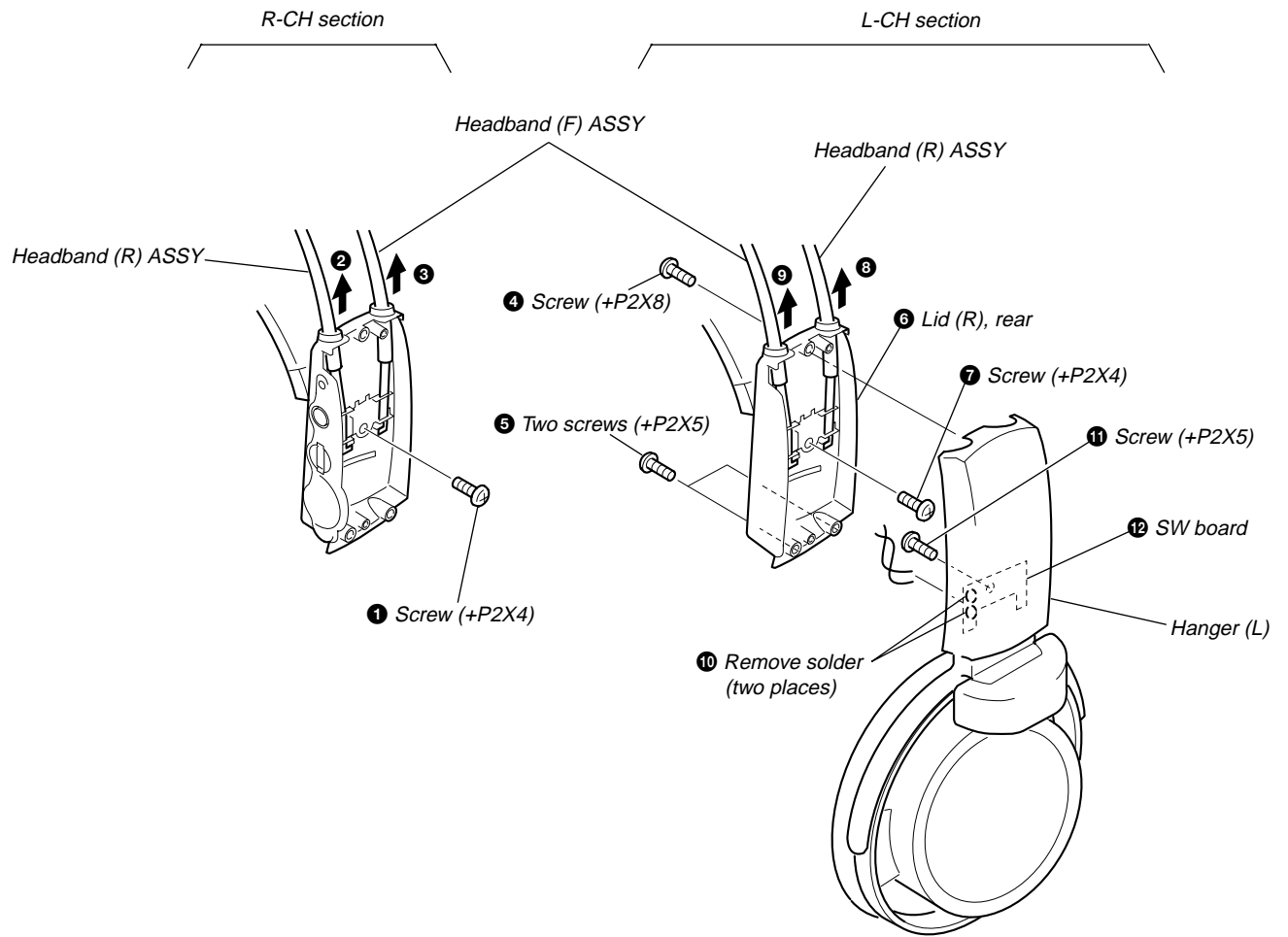


2-4. DRIVER ASSY (SP31) (R-CH SECTION), DRIVER ASSY (SP11) (L-CH SECTION)

• Can remove driver ASSY (SP11) L-CH with similar method.



2-5. HANGER (L), HEADBAND (R) ASSY, HEAD BAND (F) ASSY, SW BOARD



## SECTION 3 ELECTRICAL ADJUSTMENT

**0dB=0.775V**

**CAUTION:**

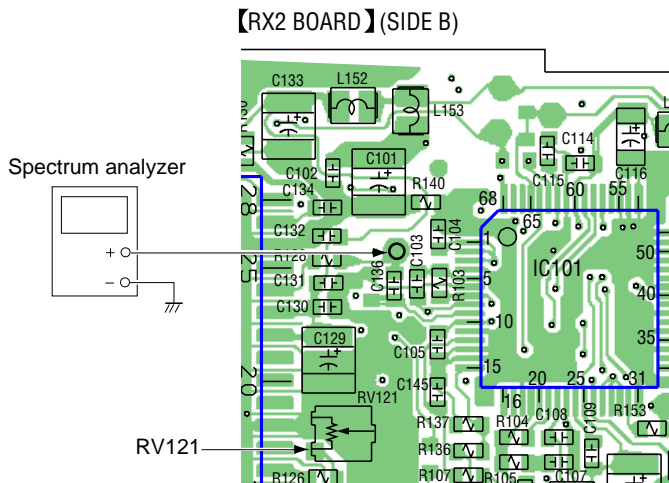
1. Apply a 2.4 volt DC supply voltage.
2. Use the processor section (DP-IF8000) as a test jig to align the headphones (MDR-IF8000).

**[BPF ADJUSTMENT]**

**Setup:**

1. Set the processor section (DP-IF8000) to test mode, and generate a -10dB signal. (Refer to the DP-IF8000 service manual.)
2. Adjust RV11 (VOLUME) on the VOL board to a minimum.

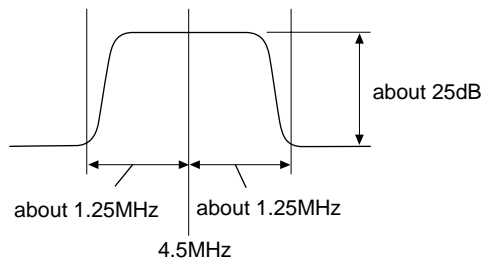
**Connection and adjustment points:**



**Procedure**

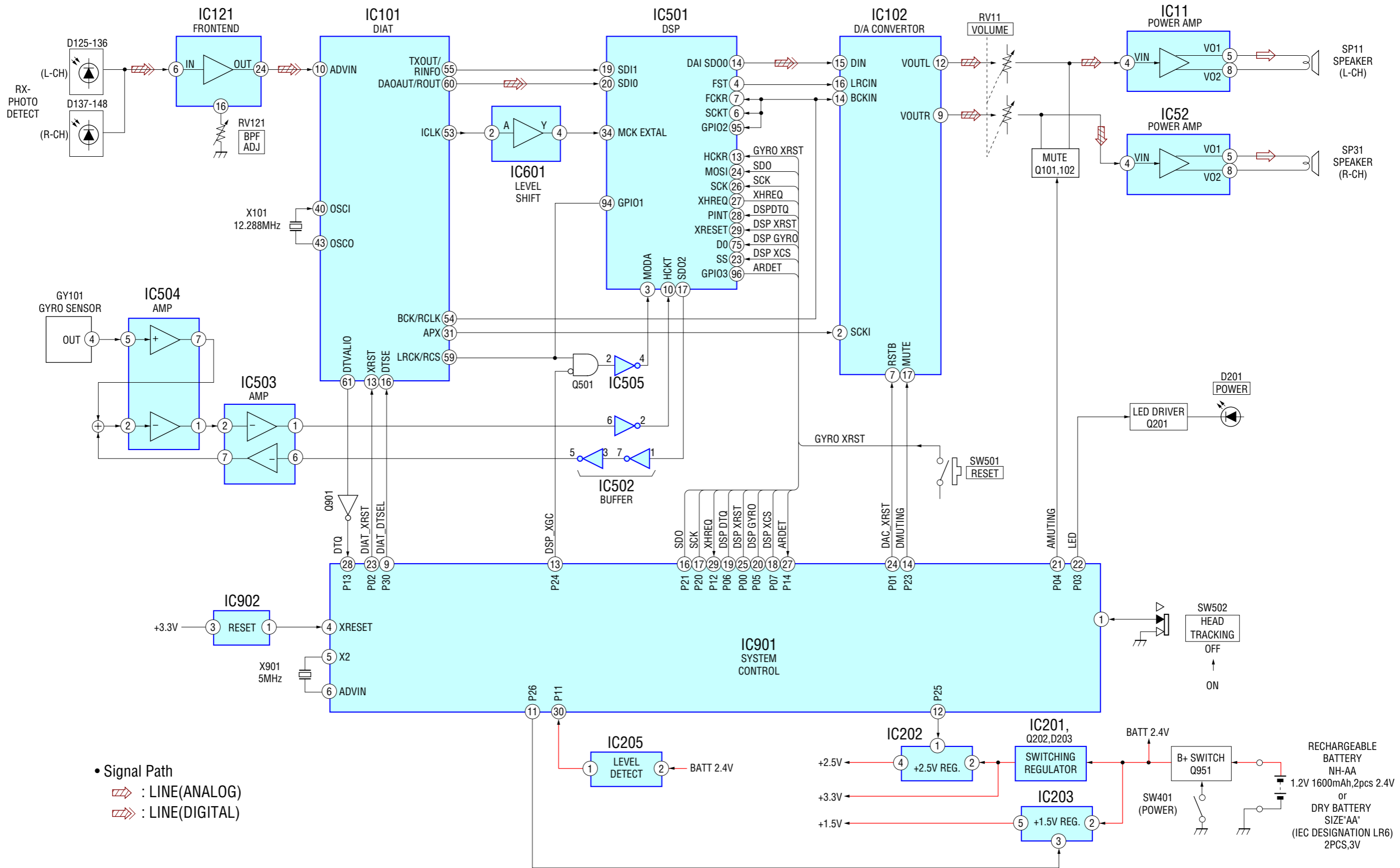
1. Connect a spectrum analyzer to the RX2 board as shown in the above drawing.
2. Adjust the spectrum analyzer output waveform by rotating RV121 so that the center of the waveform is 4.5 MHz with a uniform balance on both sidebands.

<Reference view of spectrum analyzer waveform after adjustment>

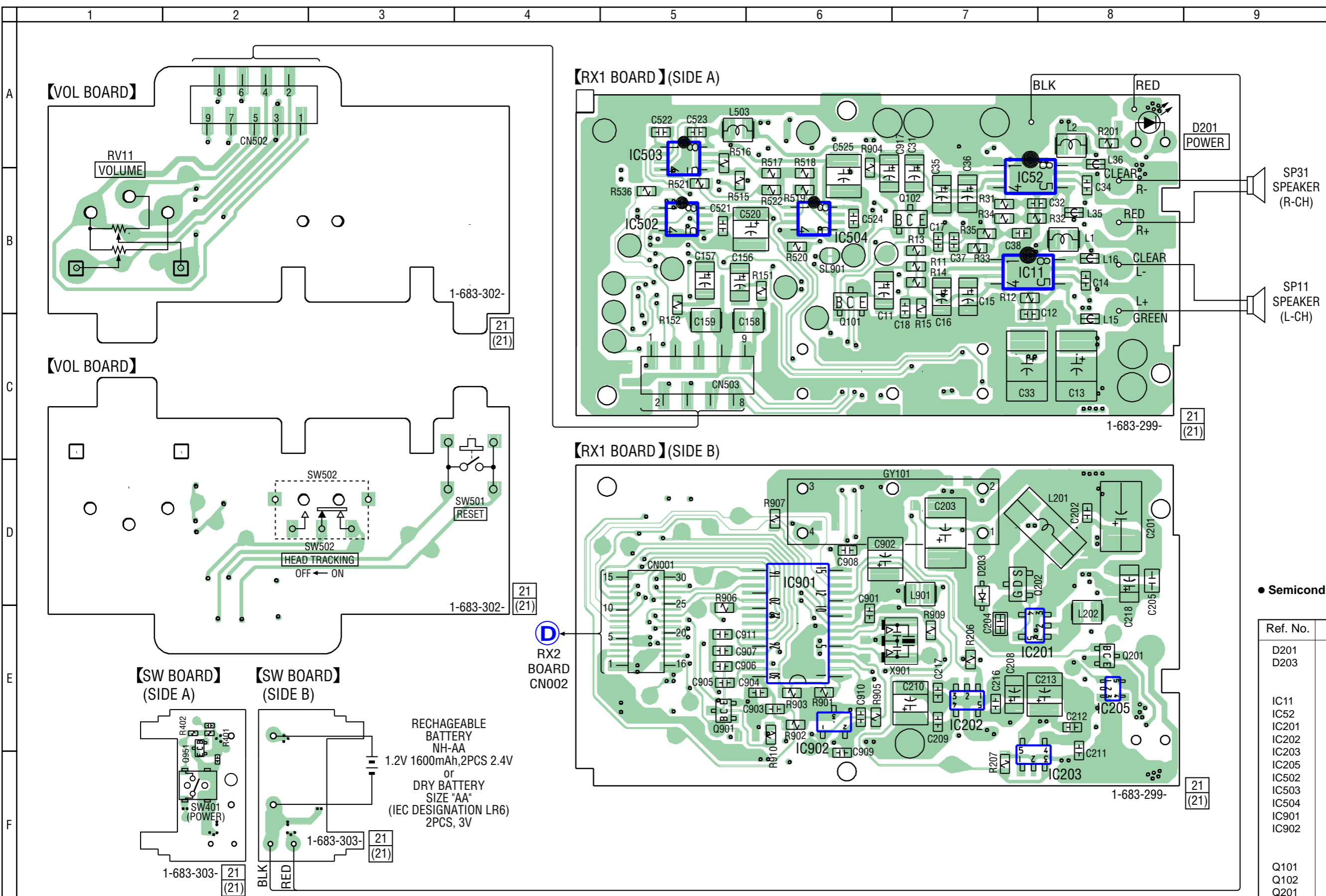


SECTION 4  
DIAGRAMS

4-1. BLOCK DIAGRAMS



4-2. PRINTED WIRING BOARDS – RX1 SECTION –



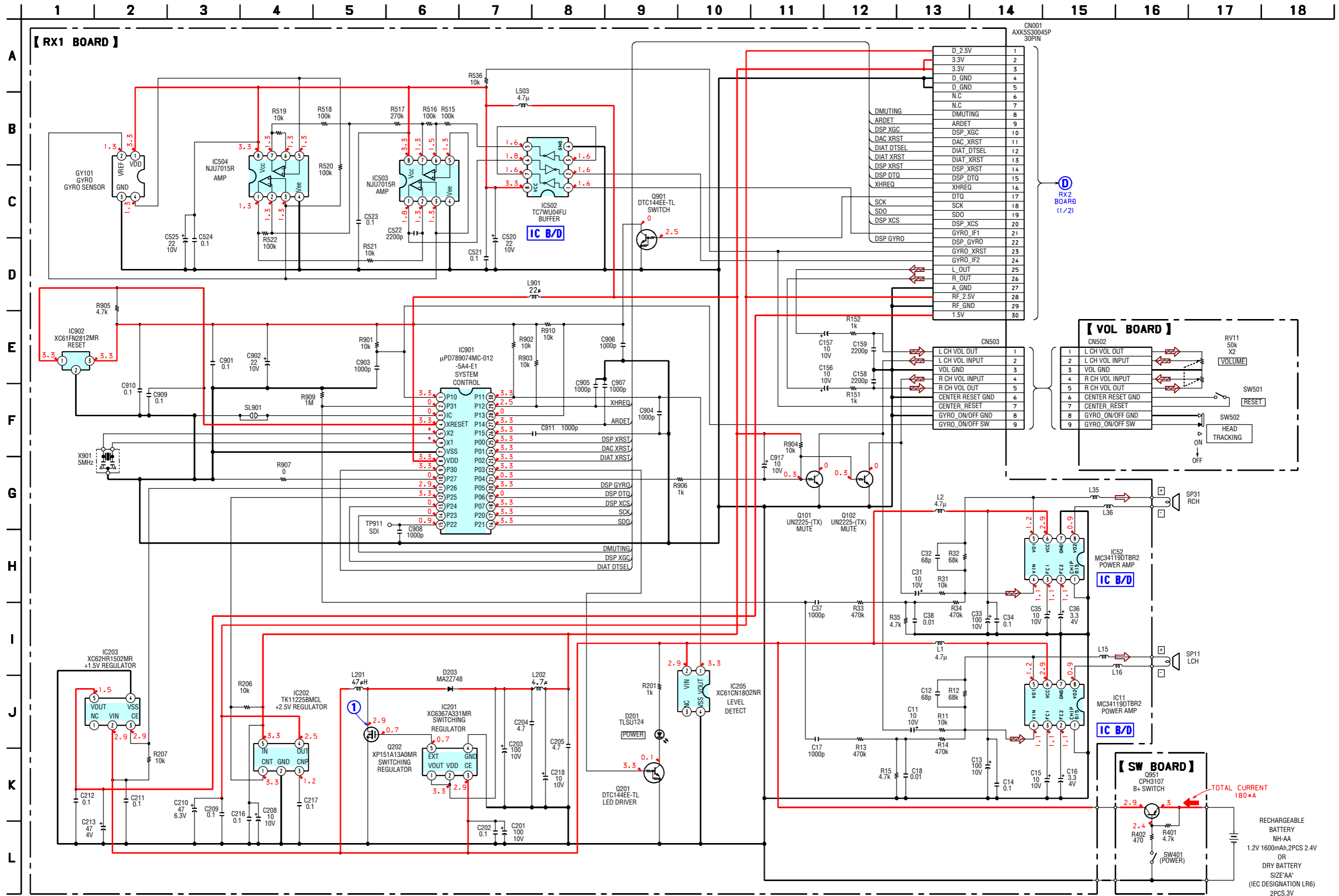
● Semiconductor

Ref. No.	Location
D201	E-8
D203	D-7
IC11	B-7
IC52	B-7
IC201	E-7
IC202	E-7
IC203	F-8
IC205	E-8
IC502	B-5
IC503	A-5
IC504	B-6
IC901	D-6
IC902	E-6
Q101	B-6
Q102	B-7
Q201	E-8
Q202	D-7
Q901	E-5
Q951	E-2



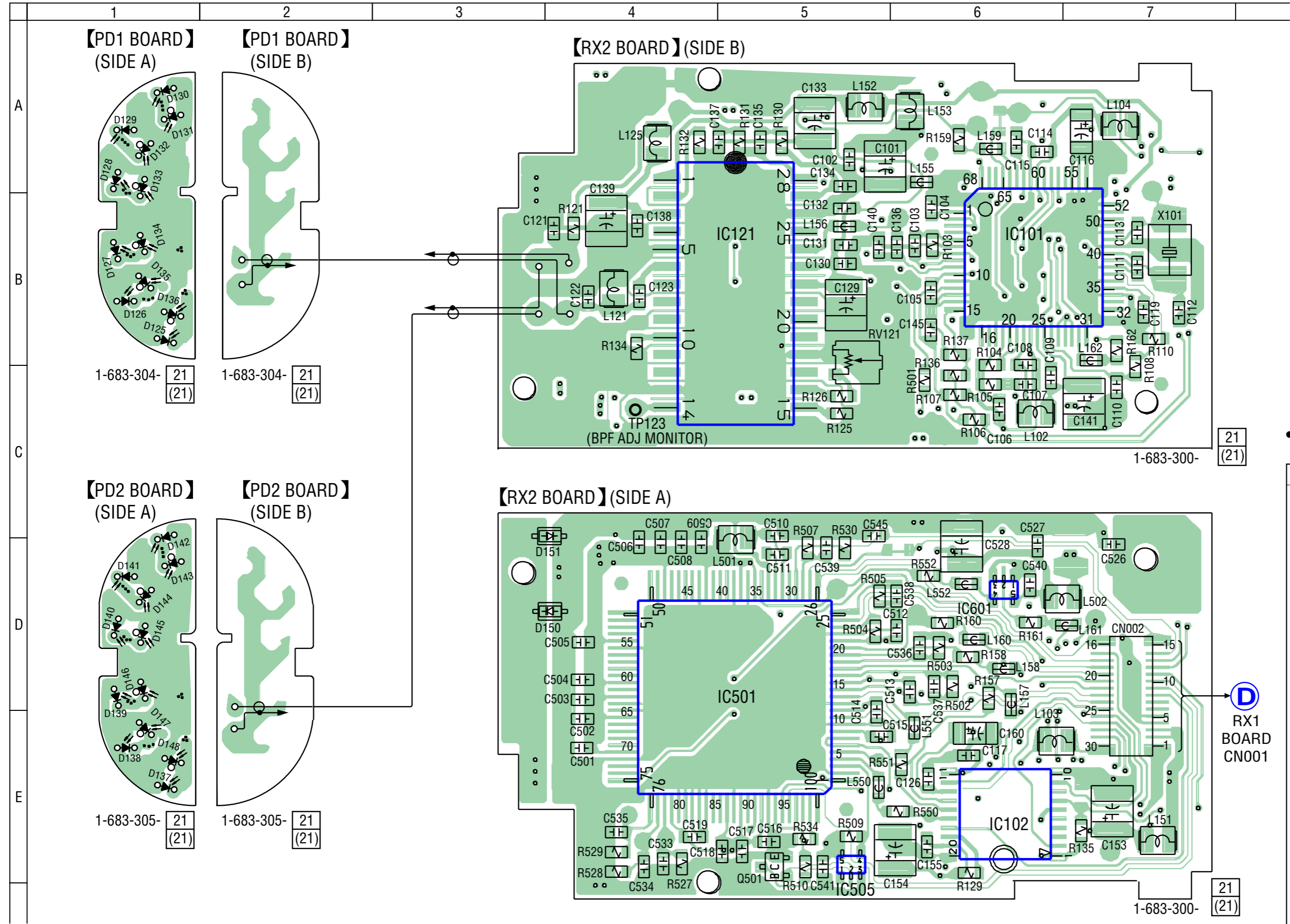
4-3. SCHEMATIC DIAGRAM – RX1 SECTION –

● Refer to page 13 for Notes. ● Refer to page 13 for IC Block Diagrams. ● Refer to page 13 for Waveforms.



RECHARGEABLE BATTERY NH-AA 1.2V 1600mAh; 2PCS 2.4V OR DRY BATTERY SIZE"AA" (IEC DESIGNATION LR6) 2PCS,3V

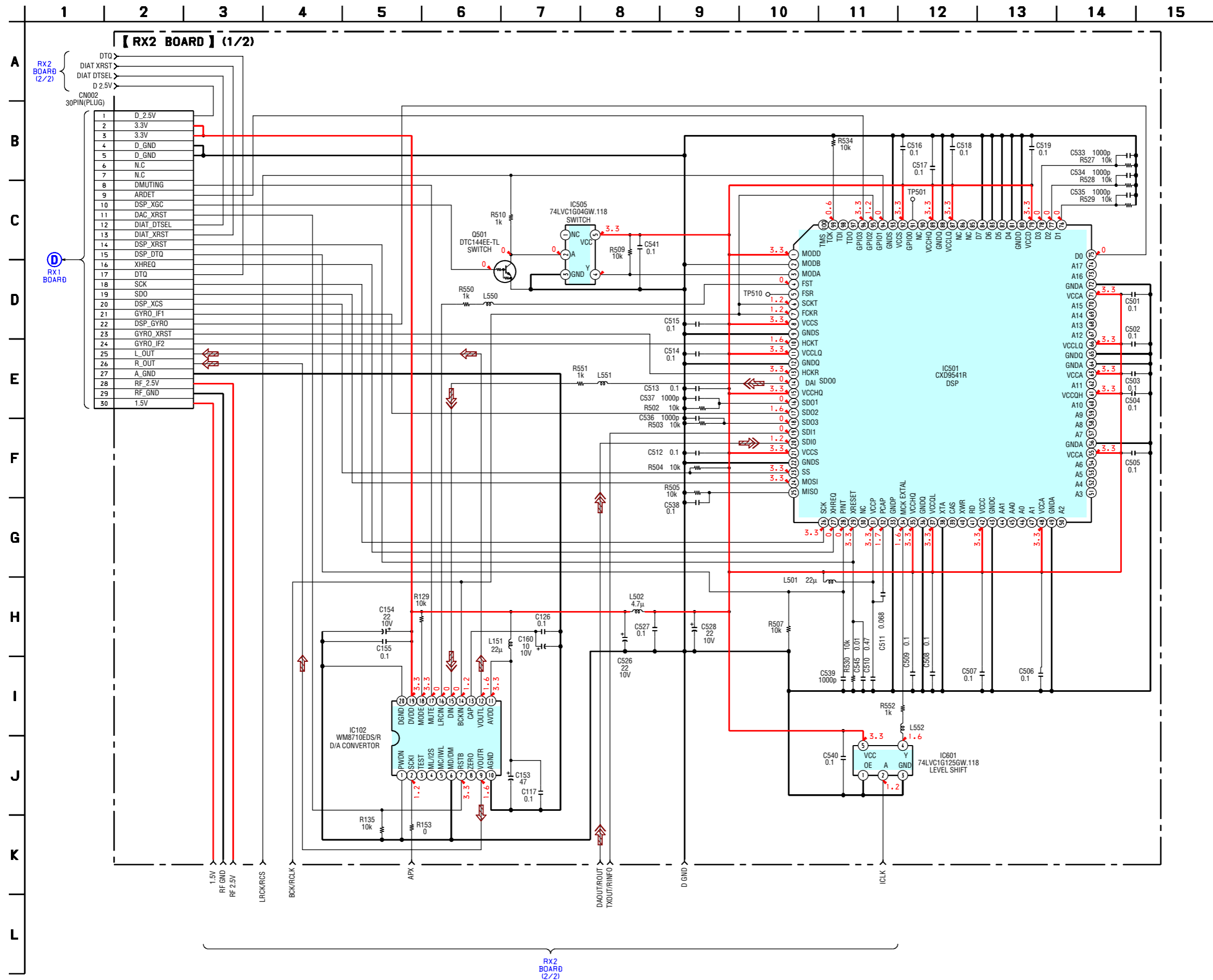
4-4. PRINTED WIRING BOARDS – RX2 SECTION –



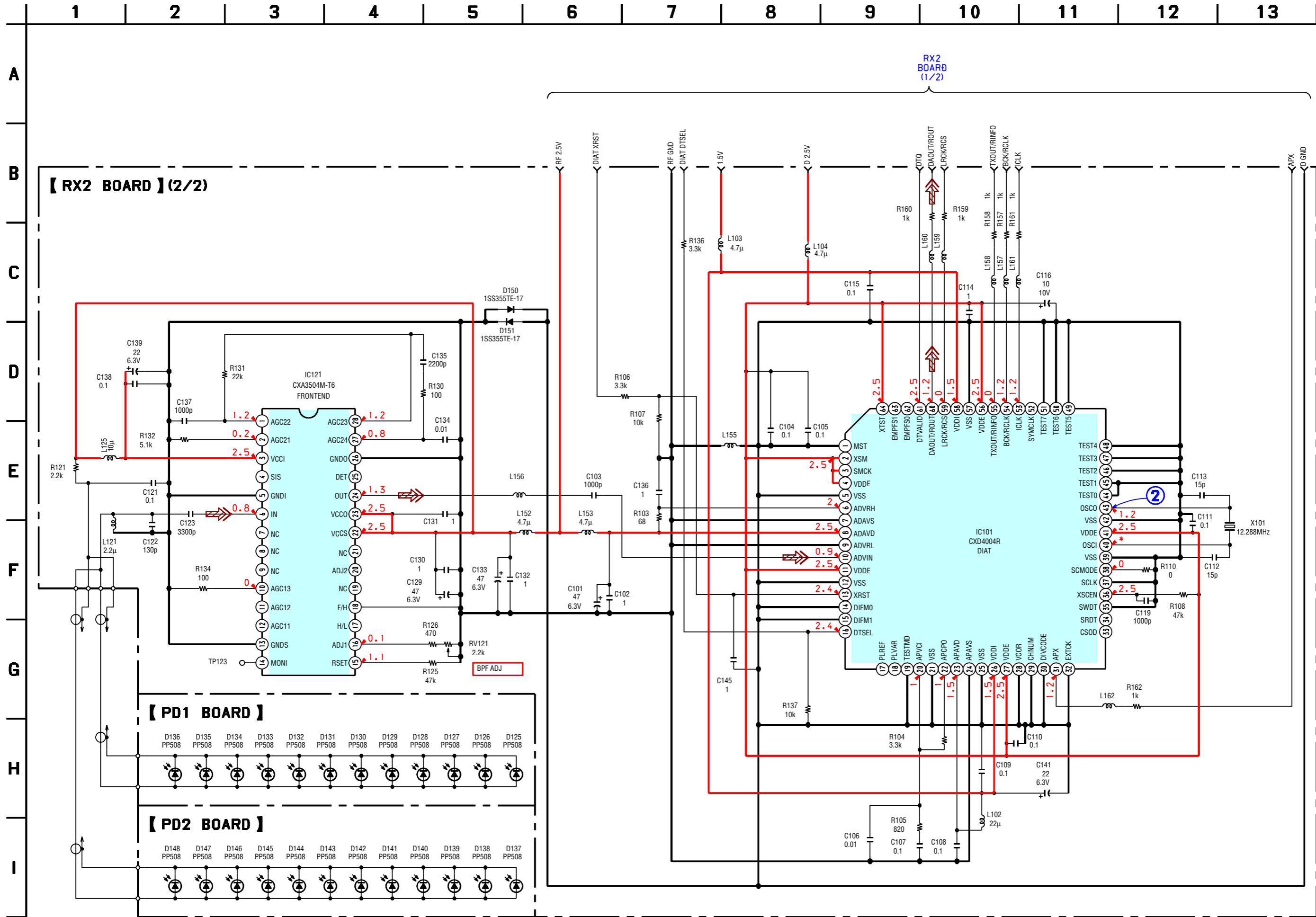
● Semiconductor

Ref. No.	Location
D125	B-1
D126	B-1
D127	B-1
D128	A-1
D129	A-1
D130	A-1
D131	A-1
D132	A-1
D133	A-1
D134	B-1
D135	B-1
D136	B-1
D137	E-1
D138	E-1
D139	D-1
D140	D-1
D141	D-1
D142	D-1
D143	D-1
D144	D-1
D145	D-1
D146	D-1
D147	E-1
D148	E-1
D150	D-4
D151	D-4
IC101	B-6
IC102	E-6
IC121	B-5
IC501	D-5
IC505	E-5
IC601	D-6
Q501	E-5

4-5. SCHEMATIC DIAGRAM – RX2 SECTION (1/2) – Refer to page 13 for Notes.



4-6. SCHEMATIC DIAGRAM – RX2 SECTION (2/2) – Refer to page 13 for Notes. Refer to page 13 for Waveforms.

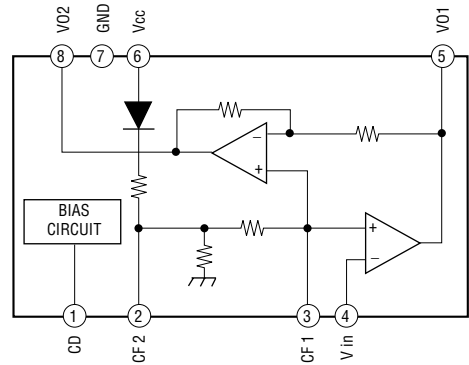


**Note:**

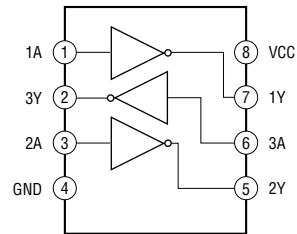
- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
- $\Delta$  : internal component.
- : B+ Line.
- : adjustment for repair.
- Power voltage is dc 3V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- no mark : LINE
- Voltages are taken with a VOM (Input impedance  $10\text{M}\Omega$ ).  
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.  
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- $\Rightarrow$  : LINE (ANALOG)
- $\Rightarrow$  : LINE (DIGITAL)

● IC Block Diagrams

**IC11, 52 MC34119DTBR2**



**IC502 TC7WU04FU (TE12R)**



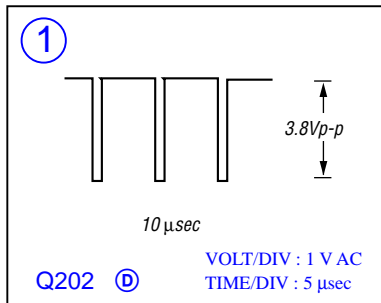
**Note:**

- $\circ$  : parts extracted from the component side.
- $\circ$  : Through hole.
- : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

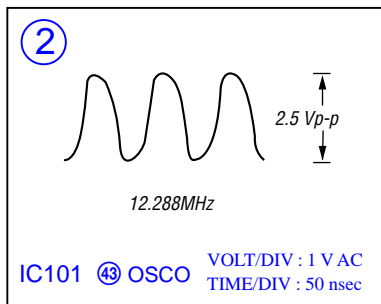
**Caution:**  
 Pattern face side: Parts on the pattern face side seen from the pattern face are indicated. (Side B)  
 Parts face side: Parts on the parts face side seen from the parts face are indicated. (Side A)

● Waveforms

– RX1 SECTION –



– RX2 SECTION –

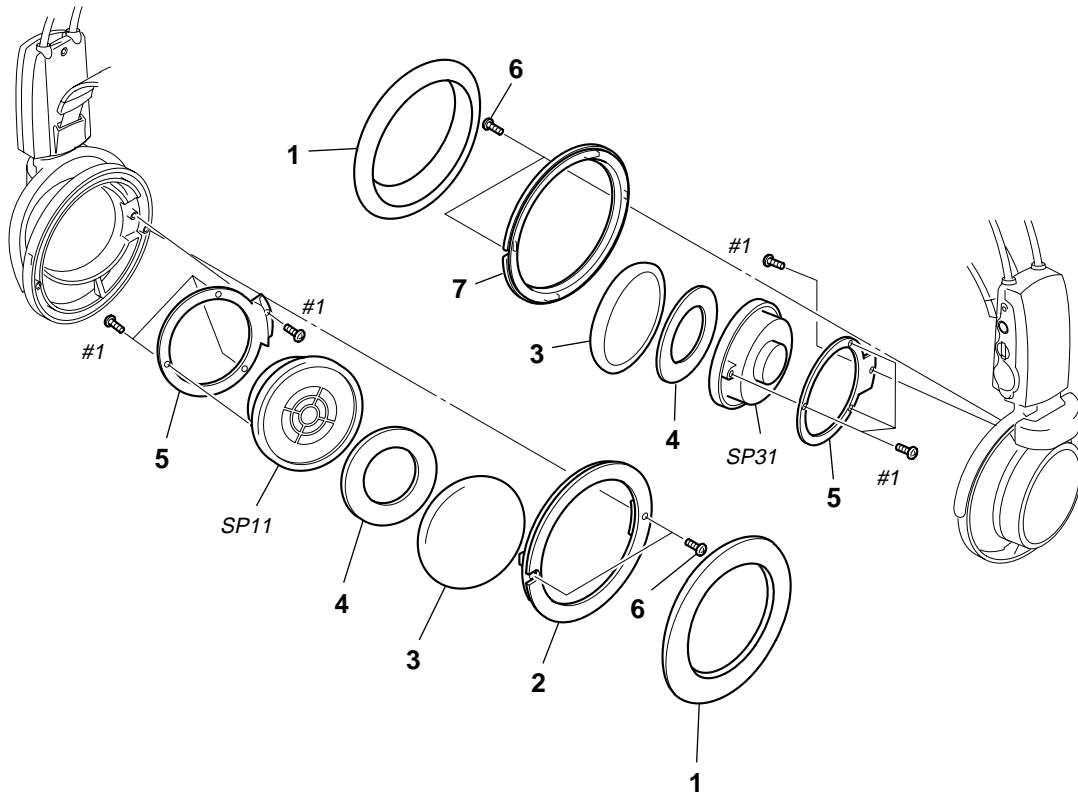


SECTION 5  
EXPLODED VIEWS

NOTE:

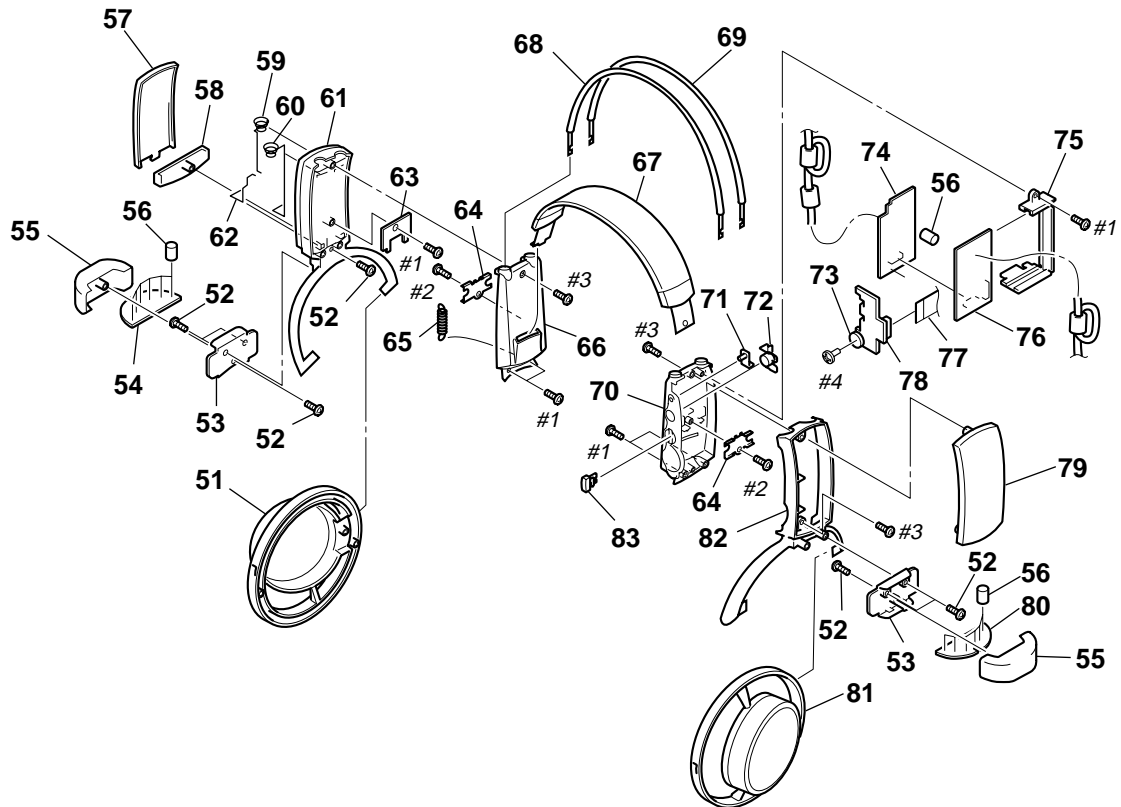
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories are given in the last of this parts list.

5-1.DRIVER SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-234-815-01	PAD, EAR		6	3-713-791-11	SCREW (M1.7X5), TAPPING, P2	
2	3-234-807-01	RING (EAR PAD:L)		7	3-239-171-01	RING (EAR PAD :R)	
3	3-234-816-01	SCREEN		SP11	X-3381-891-1	DRIVER ASSY (L-CH)	
4	3-234-817-01	CUSHION		SP31	X-3381-891-1	DRIVER ASSY (R-CH)	
5	3-234-805-01	PLATE, SUPPORT		#1	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	

## 5-2. HANGER SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3381-234-1	FRAME (L) ASSY		70	3-234-794-01	LID (R), REAR	
52	3-713-791-11	SCREW (M1.7X5), TAPPING, P2		71	3-234-808-01	LIGHT, GUIDE	
53	3-234-800-01	LID (RAY CATCHER)		72	3-234-809-01	BUTTON (RESET)	
54	1-683-305-11	PD2 BOARD		73	3-234-810-01	KNOB (VOL)	
55	3-234-799-01	WINDOW, RAY CATCHER		* 74	A-3062-871-A	RX2 BOARD, COMPLETE	
56	3-236-005-01	HOLDER, LED (MDR)		75	3-234-797-01	CHASSIS	
57	X-3381-889-1	BATTERY LID ASSY		* 76	A-3062-867-A	RX1 BOARD, COMPLETE	
58	3-236-012-01	LID (L), HANGER		77	1-926-061-60	FLAT CABLE	
59	3-234-814-01	TERMINAL (-), BATTERY		78	1-683-302-11	VOL BOARD	
60	3-234-813-01	TERMINAL (RELAY), BATTERY		79	X-3381-890-1	HUNGER LID (R) ASSY	
61	3-234-791-01	HANGER (L)		80	1-683-304-11	PD1 BOARD	
62	3-234-812-01	TERMINAL (+), BATTERY		81	X-3381-235-1	FRAME (R) ASSY	
63	1-683-303-11	SW BOARD		82	3-234-792-01	HANGER (R)	
* 64	3-234-798-01	REINFORCEMENT		83	3-234-811-01	KNOB (GYRO)	
65	4-213-918-01	SPRING		#1	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
66	3-234-793-01	LID (L), REAR		#2	7-685-102-19	SCREW +P 2X4 TYPE2 NON-SLIT	
67	X-3381-236-1	SUSPENDER ASSY		#3	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT	
68	X-3381-887-1	HEADBAND (F) ASSY		#4	7-627-551-78	SCREW,PRECISION +P 1.4X4	
69	X-3381-888-1	HEADBAND (R) ASSY					

SECTION 5  
ELECTRICAL PARTS LIST

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, -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  
In each case, u :  $\mu$  , for example :  
uA.... :  $\mu$  A.... , uPA.... :  $\mu$  PA....  
uPB.... :  $\mu$  PB.... , uPC.... :  $\mu$  PC....  
uPD.... :  $\mu$  PD....
- CAPACITORS  
uF :  $\mu$  F
- COILS  
uH :  $\mu$  H

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-683-304-11	PD1 BOARD *****				< CAPACITOR >	
	3-236-005-01	HOLDER, LED (MDR)  < DIODE >		C11	1-104-851-11	TANTAL. CHIP 10uF 20%	10V
D125	8-719-058-49	DIODE PP508		C12	1-162-951-11	CERAMIC CHIP 68PF 5%	50V
D126	8-719-058-49	DIODE PP508		C13	1-135-856-11	TANTAL. CHIP 100uF 20%	10V
D127	8-719-058-49	DIODE PP508		C14	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
D128	8-719-058-49	DIODE PP508		C15	1-104-851-11	TANTAL. CHIP 10uF 20%	10V
D129	8-719-058-49	DIODE PP508					
D130	8-719-058-49	DIODE PP508		C16	1-104-912-11	TANTAL. CHIP 3.3uF 20%	4V
D131	8-719-058-49	DIODE PP508		C17	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
D132	8-719-058-49	DIODE PP508		C18	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
D133	8-719-058-49	DIODE PP508		C31	1-104-851-11	TANTAL. CHIP 10uF 20%	10V
D134	8-719-058-49	DIODE PP508		C32	1-162-951-11	CERAMIC CHIP 68PF 5%	50V
D135	8-719-058-49	DIODE PP508					
D136	8-719-058-49	DIODE PP508		C33	1-135-856-11	TANTAL. CHIP 100uF 20%	10V
*****				C34	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
*	1-683-305-11	PD2 BOARD *****		C35	1-104-851-11	TANTAL. CHIP 10uF 20%	10V
	3-236-005-01	HOLDER, LED (MDR)  < DIODE >		C36	1-104-912-11	TANTAL. CHIP 3.3uF 20%	4V
D137	8-719-058-49	DIODE PP508		C37	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
D138	8-719-058-49	DIODE PP508					
D139	8-719-058-49	DIODE PP508		C38	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
D140	8-719-058-49	DIODE PP508		C156	1-104-851-11	TANTAL. CHIP 10uF 20%	10V
D141	8-719-058-49	DIODE PP508		C157	1-104-851-11	TANTAL. CHIP 10uF 20%	10V
D142	8-719-058-49	DIODE PP508		C158	1-104-543-11	FILM CHIP 0.0022uF 5%	50V
D143	8-719-058-49	DIODE PP508		C159	1-104-543-11	FILM CHIP 0.0022uF 5%	50V
D144	8-719-058-49	DIODE PP508					
D145	8-719-058-49	DIODE PP508		C201	1-135-856-11	TANTAL. CHIP 100uF 20%	10V
D146	8-719-058-49	DIODE PP508		C202	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
D147	8-719-058-49	DIODE PP508		C203	1-135-856-11	TANTAL. CHIP 100uF 20%	10V
D148	8-719-058-49	DIODE PP508		C204	1-127-760-11	CERAMIC CHIP 4.7uF 10%	6.3V
*****				C205	1-127-760-11	CERAMIC CHIP 4.7uF 10%	6.3V
*	A-3062-867-A	RX1 BOARD, COMPLETE *****					
	3-236-005-01	HOLDER, LED (MDR)		C208	1-104-851-11	TANTAL. CHIP 10uF 20%	10V
				C209	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
				C210	1-110-569-11	TANTAL. CHIP 47uF 20%	6.3V
				C211	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
				C212	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
				C213	1-110-569-21	TANTAL. CHIP 47uF 20%	4V
				C216	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
				C217	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
				C218	1-104-851-11	TANTAL. CHIP 10uF 20%	10V
				C520	1-104-852-11	TANTAL. CHIP 22uF 20%	10V
				C521	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
				C522	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
				C523	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
				C524	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
				C525	1-104-852-11	TANTAL. CHIP 22uF 20%	10V
				C901	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C902	1-104-852-11	TANTAL. CHIP	22uF 20% 10V	R12	1-216-843-11	METAL CHIP	68K 5% 1/16W
C903	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	R13	1-216-853-11	METAL CHIP	470K 5% 1/16W
C904	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	R14	1-216-853-11	METAL CHIP	470K 5% 1/16W
C905	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	R15	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
C906	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	R31	1-216-833-11	METAL CHIP	10K 5% 1/16W
C907	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	R32	1-216-843-11	METAL CHIP	68K 5% 1/16W
C908	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	R33	1-216-853-11	METAL CHIP	470K 5% 1/16W
C909	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	R34	1-216-853-11	METAL CHIP	470K 5% 1/16W
C910	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	R35	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
C911	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	R151	1-216-821-11	METAL CHIP	1K 5% 1/16W
C917	1-104-851-11	TANTAL. CHIP	10uF 20% 10V	R152	1-216-821-11	METAL CHIP	1K 5% 1/16W
		< CONNECTOR >		R201	1-216-821-11	METAL CHIP	1K 5% 1/16W
* CN001	1-815-151-11	CONNECTOR, B TO B (SOCKET) 30P		R206	1-216-833-11	METAL CHIP	10K 5% 1/16W
CN503	1-784-368-31	CONNECTOR, FFC/FPC 9P		R207	1-216-833-11	METAL CHIP	10K 5% 1/16W
		< DIODE >		R515	1-216-845-11	METAL CHIP	100K 5% 1/16W
D201	8-719-069-94	DIODE TLSU124		R516	1-216-845-11	METAL CHIP	100K 5% 1/16W
D203	8-719-072-27	DIODE MA2Z748001S0		R517	1-216-850-11	METAL CHIP	270K 5% 1/16W
		< SENSOR >		R518	1-216-845-11	METAL CHIP	100K 5% 1/16W
GY101	1-803-042-41	SENSOR, ANGULAR VELOCITY		R519	1-216-833-11	METAL CHIP	10K 5% 1/16W
		< IC >		R520	1-216-845-11	METAL CHIP	100K 5% 1/16W
IC11	8-759-648-66	IC MC34119DTBR2		R521	1-216-833-11	METAL CHIP	10K 5% 1/16W
IC52	8-759-648-66	IC MC34119DTBR2		R522	1-216-845-11	METAL CHIP	100K 5% 1/16W
IC201	8-759-569-80	IC XC6367A331MR		R536	1-216-833-11	METAL CHIP	10K 5% 1/16W
IC202	8-759-462-30	IC TK11225BMCL		R901	1-216-833-11	METAL CHIP	10K 5% 1/16W
IC203	6-701-851-01	IC XC62HR1502MR		R902	1-216-833-11	METAL CHIP	10K 5% 1/16W
IC205	6-701-578-01	IC XC61CN1802NR		R903	1-216-833-11	METAL CHIP	10K 5% 1/16W
IC502	8-759-096-87	IC TC7WU04FU(TE12R)		R904	1-216-833-11	METAL CHIP	10K 5% 1/16W
IC503	8-759-559-89	IC NJU7015R-TE2		R905	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
IC504	8-759-559-89	IC NJU7015R-TE2		R906	1-216-821-11	METAL CHIP	1K 5% 1/16W
IC901	6-800-938-01	IC uPD789074MC-014-5A4-E1		R907	1-216-864-11	METAL CHIP	0 5% 1/16W
IC902	8-759-825-97	IC XC61FN2812MR		R909	1-216-857-11	METAL CHIP	1M 5% 1/16W
		< COIL >		R910	1-216-833-11	METAL CHIP	10K 5% 1/16W
L1	1-469-524-11	INDUCTOR	4.7uH			< VIBRATOR >	
L2	1-469-524-11	INDUCTOR	4.7uH	X901	1-795-121-21	VIBRATOR, CERAMIC (5MHz)	
L15	1-414-760-21	FERRITE	0uH	*****			
L16	1-414-760-21	FERRITE	0uH	* A-3062-871-A	RX2 BOARD, COMPLETE		
L35	1-414-760-21	FERRITE	0uH	*****			
L36	1-414-760-21	FERRITE	0uH	C101	1-110-569-11	TANTAL. CHIP	47uF 20% 6.3V
L201	1-419-384-21	INDUCTOR	47uH	C102	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V
L202	1-469-524-11	INDUCTOR	4.7uH	C103	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
L503	1-469-524-11	INDUCTOR	4.7uH	C104	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
L901	1-469-526-11	INDUCTOR	22uH	C105	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
		< TRANSISTOR >		C106	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
Q101	8-729-043-69	TRANSISTOR UN2225-(TX).S0		C107	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
Q102	8-729-043-69	TRANSISTOR UN2225-(TX).S0		C108	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
Q201	8-729-928-81	TRANSISTOR DTC144EE		C109	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
Q202	8-729-052-37	TRANSISTOR XP151A13A0MR		C110	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
Q901	8-729-928-81	TRANSISTOR DTC144EE		C111	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
		< RESISTOR >		C112	1-162-917-11	CERAMIC CHIP	15PF 5% 50V
R11	1-216-833-11	METAL CHIP	10K 5% 1/16W	C113	1-162-917-11	CERAMIC CHIP	15PF 5% 50V
				C114	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V
				C115	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
				C116	1-104-851-11	TANTAL. CHIP	10uF 20% 10V
				C117	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
				C119	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
				C121	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V

# MDR-IF8000

**RX2**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C122	1-164-384-11	CERAMIC CHIP 130PF 5%	50V			< DIODE >	
C123	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V	D150	8-719-988-61	DIODE 1SS355TE-17	
C126	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	D151	8-719-988-61	DIODE 1SS355TE-17	
C129	1-110-569-11	TANTAL. CHIP 47uF 20%	6.3V			< IC >	
C130	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V	IC101	6-701-579-01	IC CXD4004R	
C131	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V	IC102	6-701-586-01	IC WM8710EDS/R	
C132	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V	IC121	8-752-096-17	IC CXA3504M-T6	
C133	1-110-569-11	TANTAL. CHIP 47uF 20%	6.3V	IC501	8-759-827-10	IC CXD9541R	
C134	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	IC505	6-701-581-01	IC 74LVC1G04GW.115	
C135	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V	IC601	6-701-580-01	IC 74LVC1G125GW.115	
C136	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V			< COIL >	
C137	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	L102	1-469-526-11	INDUCTOR 22uH	
C138	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	L103	1-469-524-11	INDUCTOR 4.7uH	
C139	1-104-852-11	TANTAL. CHIP 22uF 20%	6.3V	L104	1-469-524-11	INDUCTOR 4.7uH	
C141	1-104-852-11	TANTAL. CHIP 22uF 20%	6.3V	L121	1-410-196-11	INDUCTOR 2.2uH	
C145	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V	L125	1-469-525-91	INDUCTOR 10uH	
C153	1-137-934-11	TANTAL. CHIP 47uF 20%	10V	L151	1-469-526-11	INDUCTOR 22uH	
C154	1-104-852-11	TANTAL. CHIP 22uF 20%	10V	L152	1-469-524-11	INDUCTOR 4.7uH	
C155	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	L153	1-469-524-11	INDUCTOR 4.7uH	
C160	1-104-851-11	TANTAL. CHIP 10uF 20%	10V	L155	1-414-594-11	FERRITE 0uH	
C501	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	L156	1-414-760-21	FERRITE 0uH	
C502	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	L157	1-414-760-21	FERRITE 0uH	
C503	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	L158	1-414-760-21	FERRITE 0uH	
C504	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	L159	1-414-760-21	FERRITE 0uH	
C505	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	L160	1-414-760-21	FERRITE 0uH	
C506	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	L161	1-414-760-21	FERRITE 0uH	
C507	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	L162	1-414-760-21	FERRITE 0uH	
C508	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	L501	1-469-526-11	INDUCTOR 22uH	
C509	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	L502	1-469-524-11	INDUCTOR 4.7uH	
C510	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V	L550	1-414-760-21	FERRITE 0uH	
C511	1-110-563-11	CERAMIC CHIP 0.068uF 10%	16V	L551	1-414-760-21	FERRITE 0uH	
C512	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	L552	1-414-760-21	FERRITE 0uH	
C513	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V			< TRANSISTOR >	
C514	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	Q501	8-729-928-81	TRANSISTOR DTC144EE	
C515	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V			< RESISTOR >	
C516	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	R103	1-218-664-11	METAL CHIP 68 0.5% 1/16W	
C517	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	R104	1-216-827-11	METAL CHIP 3.3K 5% 1/16W	
C518	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	R105	1-216-820-11	METAL CHIP 820 5% 1/16W	
C519	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	R106	1-216-827-11	METAL CHIP 3.3K 5% 1/16W	
C526	1-104-852-11	TANTAL. CHIP 22uF 20%	10V	R107	1-216-833-11	METAL CHIP 10K 5% 1/16W	
C527	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	R108	1-216-841-11	METAL CHIP 47K 5% 1/16W	
C528	1-104-852-11	TANTAL. CHIP 22uF 20%	10V	R110	1-216-864-11	METAL CHIP 0 5% 1/16W	
C533	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	R121	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
C534	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	R125	1-216-841-11	METAL CHIP 47K 5% 1/16W	
C535	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	R126	1-216-817-11	METAL CHIP 470 5% 1/16W	
C536	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	R129	1-216-833-11	METAL CHIP 10K 5% 1/16W	
C537	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	R130	1-216-809-11	METAL CHIP 100 5% 1/16W	
C538	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	R131	1-216-837-11	METAL CHIP 22K 5% 1/16W	
C539	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	R132	1-218-272-11	RES-CHIP 5.1K 5% 1/10W	
C540	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	R134	1-216-809-11	METAL CHIP 100 5% 1/16W	
C541	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	R135	1-216-833-11	METAL CHIP 10K 5% 1/16W	
C545	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V			< CONNECTOR >	
CN002	1-816-181-21	CONNECTOR, BOARD TO BOARD 30P					

RX2

SW

VOL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R136	1-216-827-11	METAL CHIP	3.3K 5% 1/16W			< SWITCH >	
R137	1-216-833-11	METAL CHIP	10K 5% 1/16W				
R157	1-216-821-11	METAL CHIP	1K 5% 1/16W				
R158	1-216-821-11	METAL CHIP	1K 5% 1/16W				
R159	1-216-821-11	METAL CHIP	1K 5% 1/16W				
R160	1-216-821-11	METAL CHIP	1K 5% 1/16W				
R161	1-216-821-11	METAL CHIP	1K 5% 1/16W				
R162	1-216-821-11	METAL CHIP	1K 5% 1/16W				
R502	1-216-833-11	METAL CHIP	10K 5% 1/16W				
R503	1-216-833-11	METAL CHIP	10K 5% 1/16W				
R504	1-216-833-11	METAL CHIP	10K 5% 1/16W				
R505	1-216-833-11	METAL CHIP	10K 5% 1/16W				
R507	1-216-833-11	METAL CHIP	10K 5% 1/16W				
R509	1-216-833-11	METAL CHIP	10K 5% 1/16W				
R510	1-216-821-11	METAL CHIP	1K 5% 1/16W				
R527	1-216-833-11	METAL CHIP	10K 5% 1/16W				
R528	1-216-833-11	METAL CHIP	10K 5% 1/16W				
R529	1-216-833-11	METAL CHIP	10K 5% 1/16W				
R530	1-216-833-11	METAL CHIP	10K 5% 1/16W				
R534	1-216-833-11	METAL CHIP	10K 5% 1/16W				
R535	1-216-864-11	METAL CHIP	0 5% 1/16W				
R550	1-216-821-11	METAL CHIP	1K 5% 1/16W				
R551	1-216-821-11	METAL CHIP	1K 5% 1/16W				
R552	1-216-821-11	METAL CHIP	1K 5% 1/16W				
		< VARIABLE RESISTOR >					
RV121	1-238-854-11	RES, ADJ, CERMET 2.2K (BPF)					
		< VIBRATOR >					
X101	1-795-485-21	VIBRATOR, CRYSTAL (SMD) (12.288MHz)					
		*****					
*	1-683-303-11	SW BOARD					
		*****					
		< TRANSISTOR >					
Q951	8-729-053-67	TRANSISTOR CPH3107-TL					
		< RESISTOR >					
R401	1-216-829-11	METAL CHIP	4.7K 5% 1/16W				
R402	1-216-817-11	METAL CHIP	470 5% 1/16W				
		< SWITCH >					
SW401	1-572-467-61	SWITCH, PUSH (1 KEY) (POWER)					
		*****					
*	1-683-302-11	VOL BOARD					
		*****					
	3-234-810-01	KNOB (VOL)					
	7-627-551-78	SCREW,PRECISION +P 1.4X4					
		< CONNECTOR >					
CN502	1-784-368-31	CONNECTOR, FFC/FPC 9P					
		< VARIABLE RESISTOR >					
RV11	1-227-448-11	RES, VAR, CARBON 50K/50K (VOL) (VOLUME)					

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
SW501	1-786-015-21	SWITCH, TACTILE (RESET)	
SW502	1-692-397-21	SWITCH, SLIDE (HEAD TRACKING)	
		*****	
		MISCELLANEOUS	
		*****	
77	1-926-061-60	FLAT CABLE	
SP11	X-3381-891-1	DRIVER ASSY (L-CH)	
SP31	X-3381-891-1	DRIVER ASSY (R-CH)	
		*****	
		ACCESSORIES	
		*****	
	1-756-272-11	BATTERY, NICKEL HYDROGEN	
	3-238-078-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH,SPANISH)	
	3-238-078-21	MANUAL, INSTRUCTION (GERMAN,DUTCH, ITALIAN,PORTUGUESE)(AEP)	
	3-238-080-01	LABEL, ITF BAR CODE	

