TA-WR4

SERVICE MANUAL

Ver. 1.2 2006.09

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model

TA-WR4 is the surround amplifier section in DAV-DZ810W/DZ820KW/FX900W/FX900KW.

SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION (FTC Output Power)	
US and Canadian models:	SL/SR: 84 W/ch 3 ohms at 160 - 20,000 Hz, 0.7 % THD
Surround mode (reference)	RMS output power, 10 % THD
Latin American models:	130 W + 130 W (with SS-TS55, SS-TS56W)
Argentine and other models:	140 W + 140 W (with SS-TS55, SS-TS56W)
Power requirements	
Latin American models:	110 - 240 V AC, 50/60 Hz
US and Canadian models:	120 V AC, 60 Hz
Other models:	220 - 240 V AC, 50/60 Hz
Taiwan model :	120 V AC, 50/60 Hz
Power consumption	50 W
Dimensions (approx.)	280 × 60 × 280 mm (w/h/d)
Mass (approx.)	1.6 kg

Design and specifications are subject to change without notice.

SURROUND AMPLIFIER

9-887-226-03
2006I16-1

Sony Corporation
Home Audio Division
Published by Sony Techno Create 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 the 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.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

TABLE OF CONTENTS

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

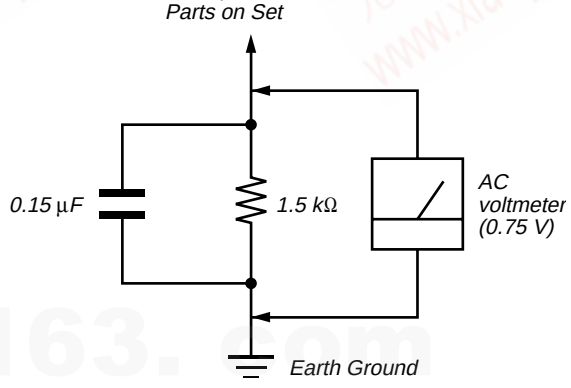
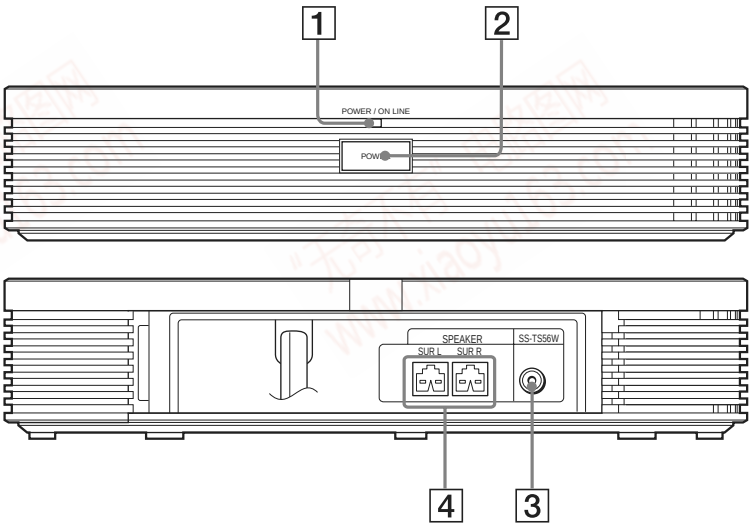


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
GENERAL

This section is extracted from instruction manual.

Surround amplifier



1 **POWER/ON LINE indicator (23)**
2 **POWER (23)**
3 **SS-TS56W jack (16)**
4 **SPEAKER jacks (16)**

SECTION 2
DIAGRAMS

• Note for Printed Wiring Boards and Schematic Diagrams

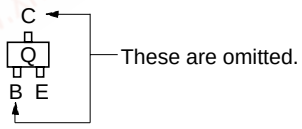
Note on Printed Wiring Boards:

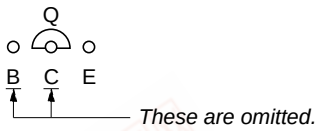
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

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

- Indication of transistor.





Note on Schematic Diagrams:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : panel designation.

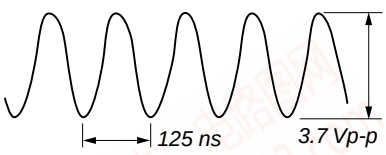
Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: Power on
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : AUDIO
- Abbreviation
  AR : Argentina model
  AUS : Australian model
  CND : Canadian model
  E3 : 240V AC area in E model
  E32 : 110-240V AC area in E model
  KR : Korean model
  RU : Russian model
  SP : Singapore model
  TW : Taiwan model

• Waveforms

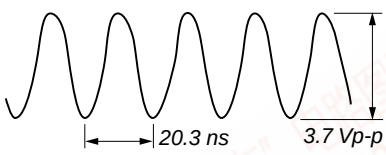
– RX AMP Board –

① IC107 ㉓ (X1)



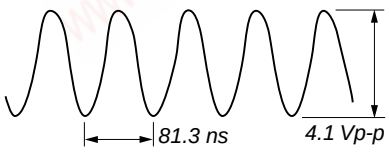
1 V/DIV, 100 ns/DIV

③ IC301 ㊽ (XFSOIN)



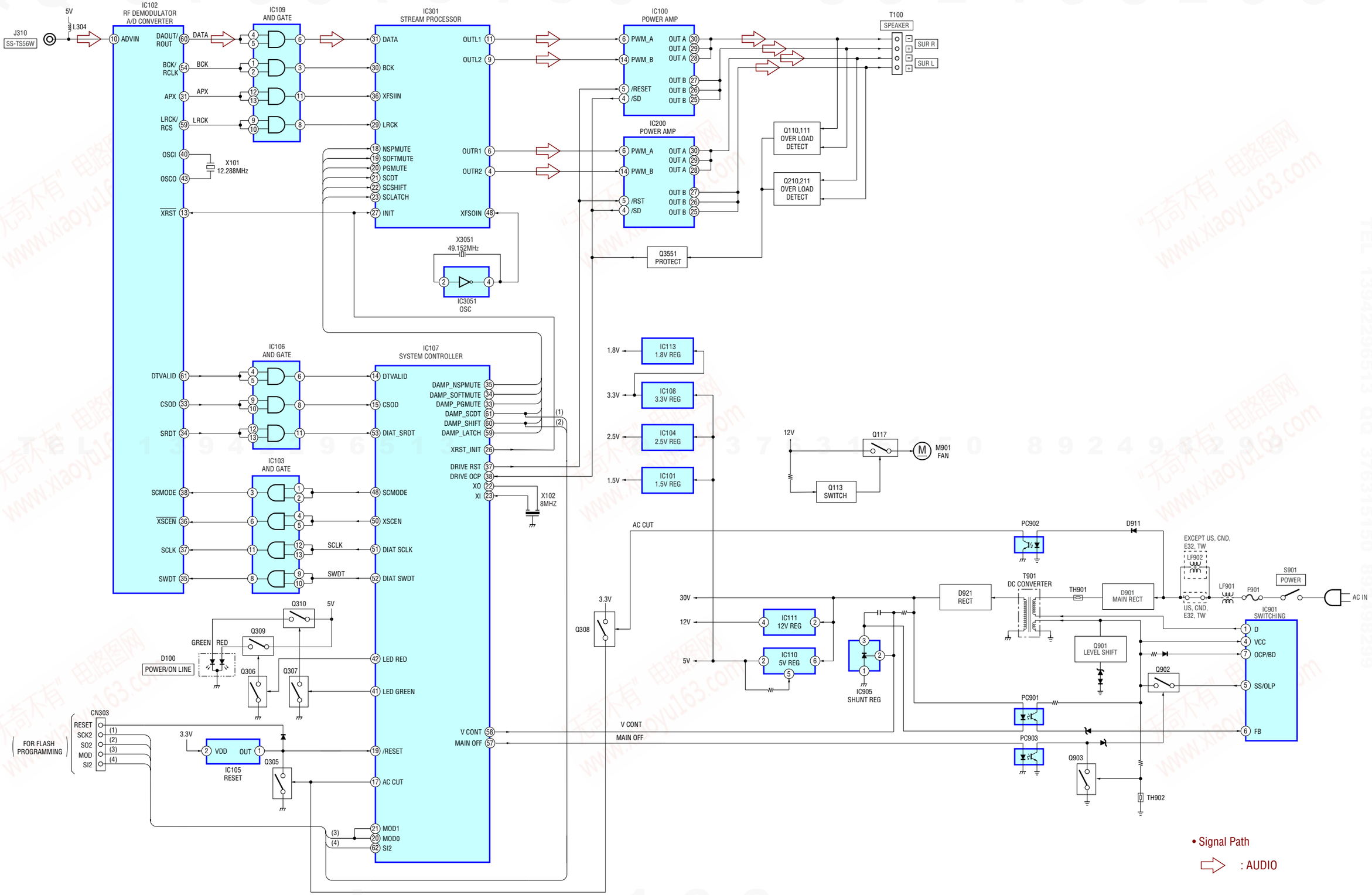
1 V/DIV, 10 ns/DIV

② IC102 ㊵ (OSCI)



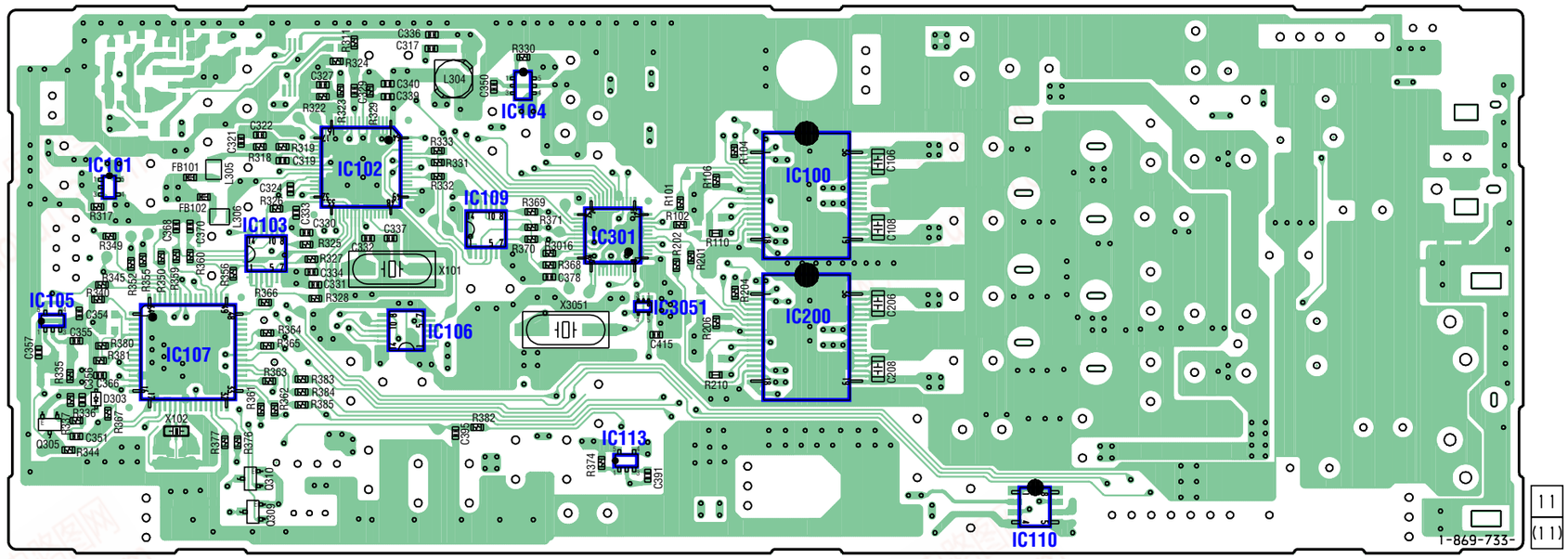
1 V/DIV, 40 ns/DIV

2-1. BLOCK DIAGRAM

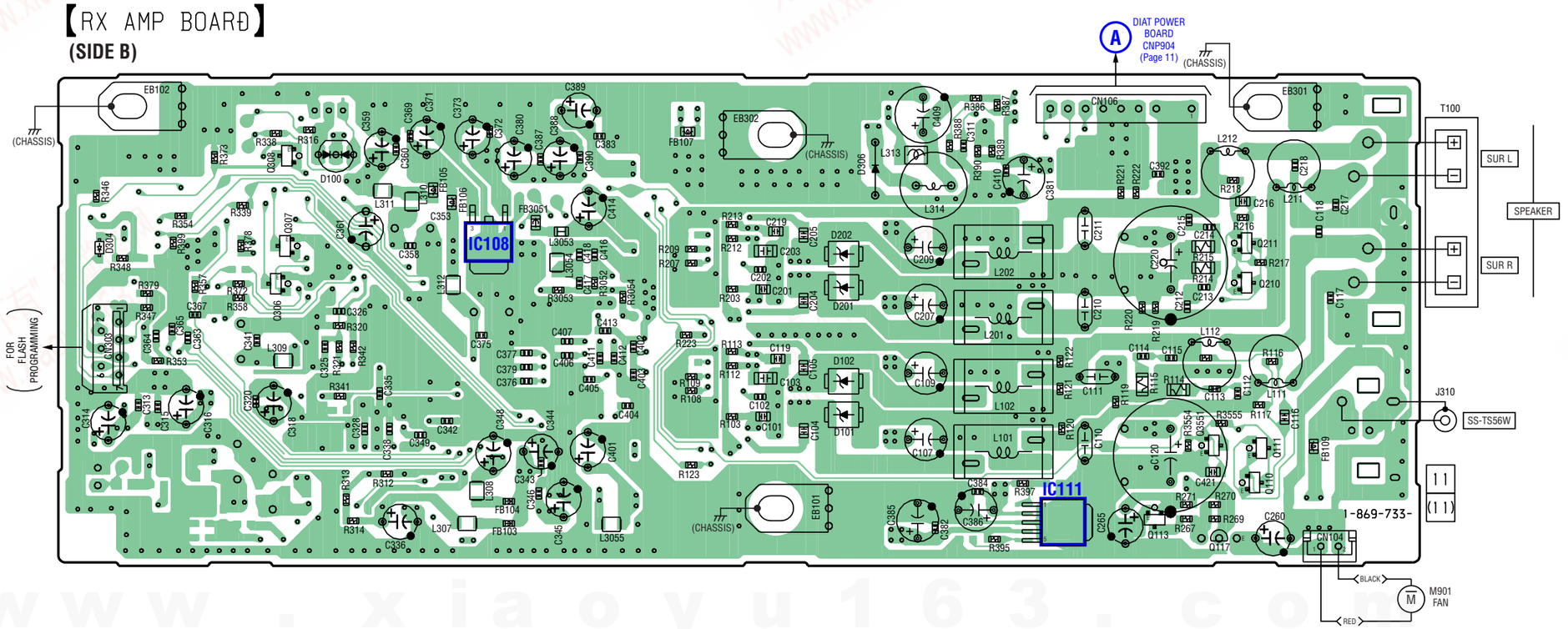


2-2. PRINTED WIRING BOARD — RX AMP BOARD — :Uses unleaded solder.

【RX AMP BOARD】
(SIDE A)



【RX AMP BOARD】
(SIDE B)

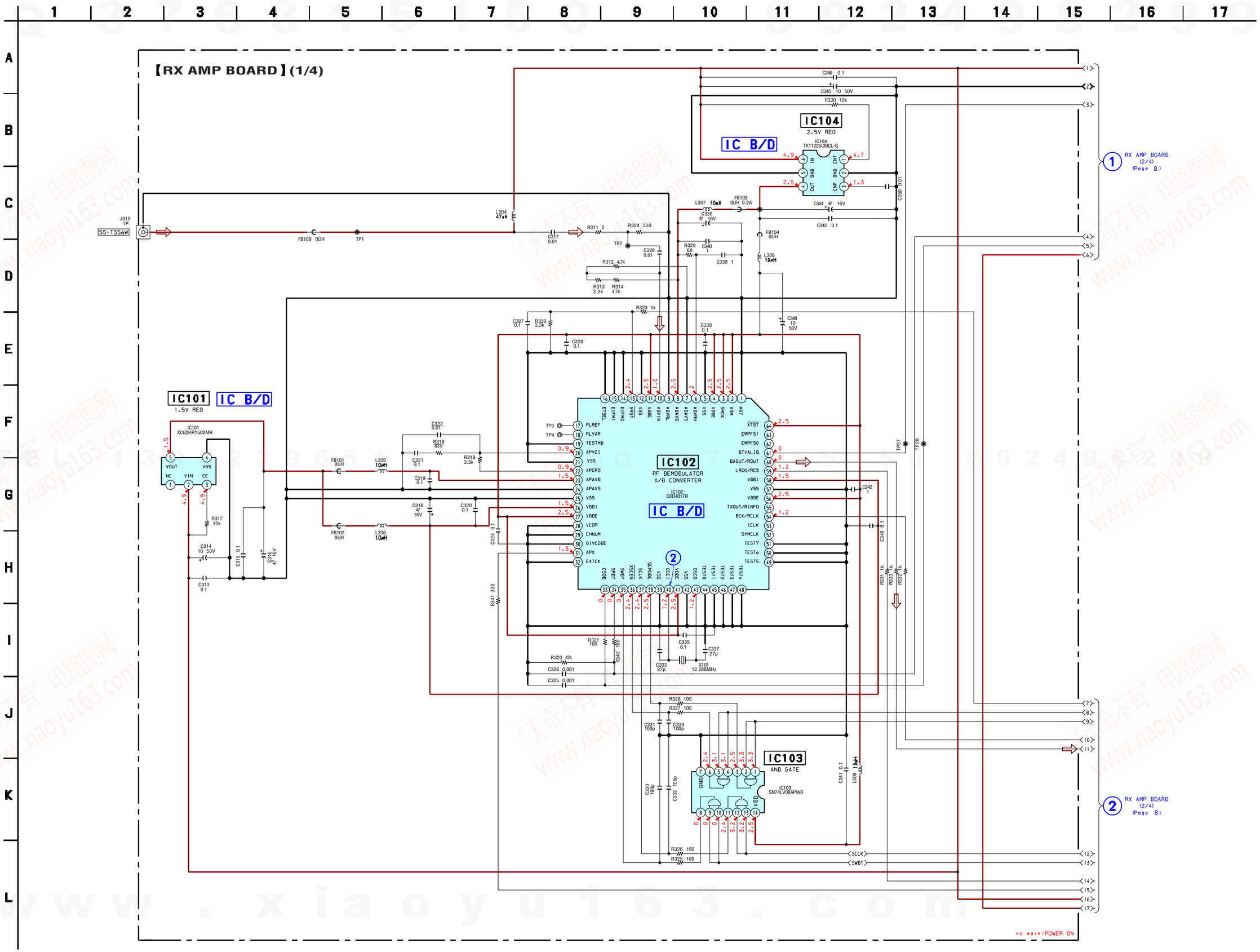


- **Semiconductor Location**

Ref. No.	Location
D100	F-3
D101	H-6
D102	H-6
D201	G-6
D202	G-6
D303	D-2
D304	G-2
D306	F-6
IC100	B-6
IC101	B-2
IC102	B-3
IC103	C-3
IC104	B-4
IC105	C-1
IC106	C-4
IC107	C-2
IC108	G-4
IC109	B-4
IC110	D-7
IC111	H-8
IC113	D-5
IC200	C-6
IC301	C-5
IC3051	C-5
Q110	H-9
Q111	H-9
Q113	I-8
Q117	I-8
Q210	G-9
Q211	G-9
Q305	D-1
Q306	G-3
Q307	G-3
Q308	F-3
Q309	D-3
Q310	D-3
Q3551	H-9

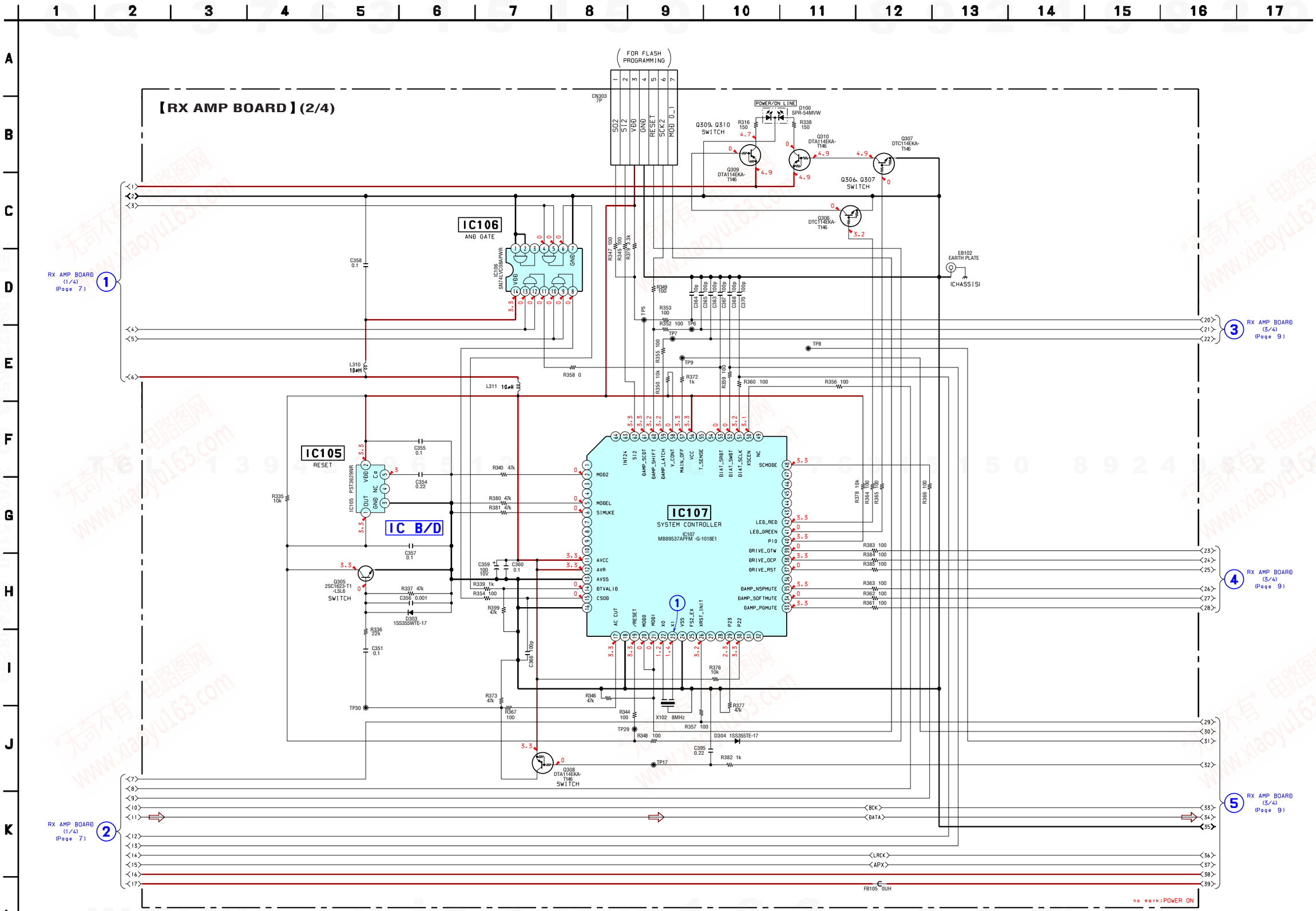
2-3. SCHEMATIC DIAGRAM — RX AMP BOARD (1/4) —

• See page 4 for Waveform. • See page 13 for IC Block Diagrams.



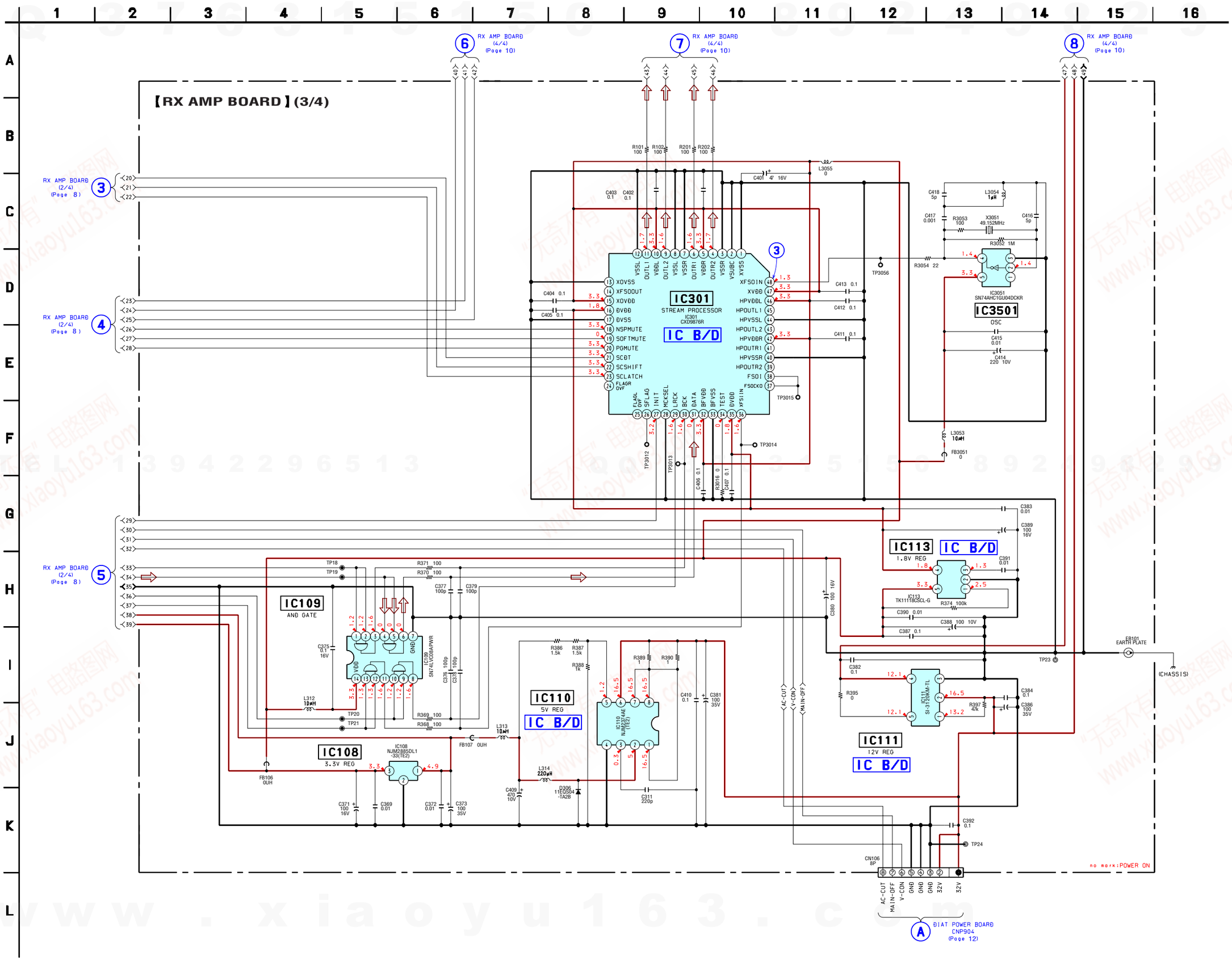
2-4. SCHEMATIC DIAGRAM — RX AMP BOARD (2/4) —

• See page 4 for Waveform. • See page 13 for IC Block Diagram. • See page 17 for IC Pin Function Description.



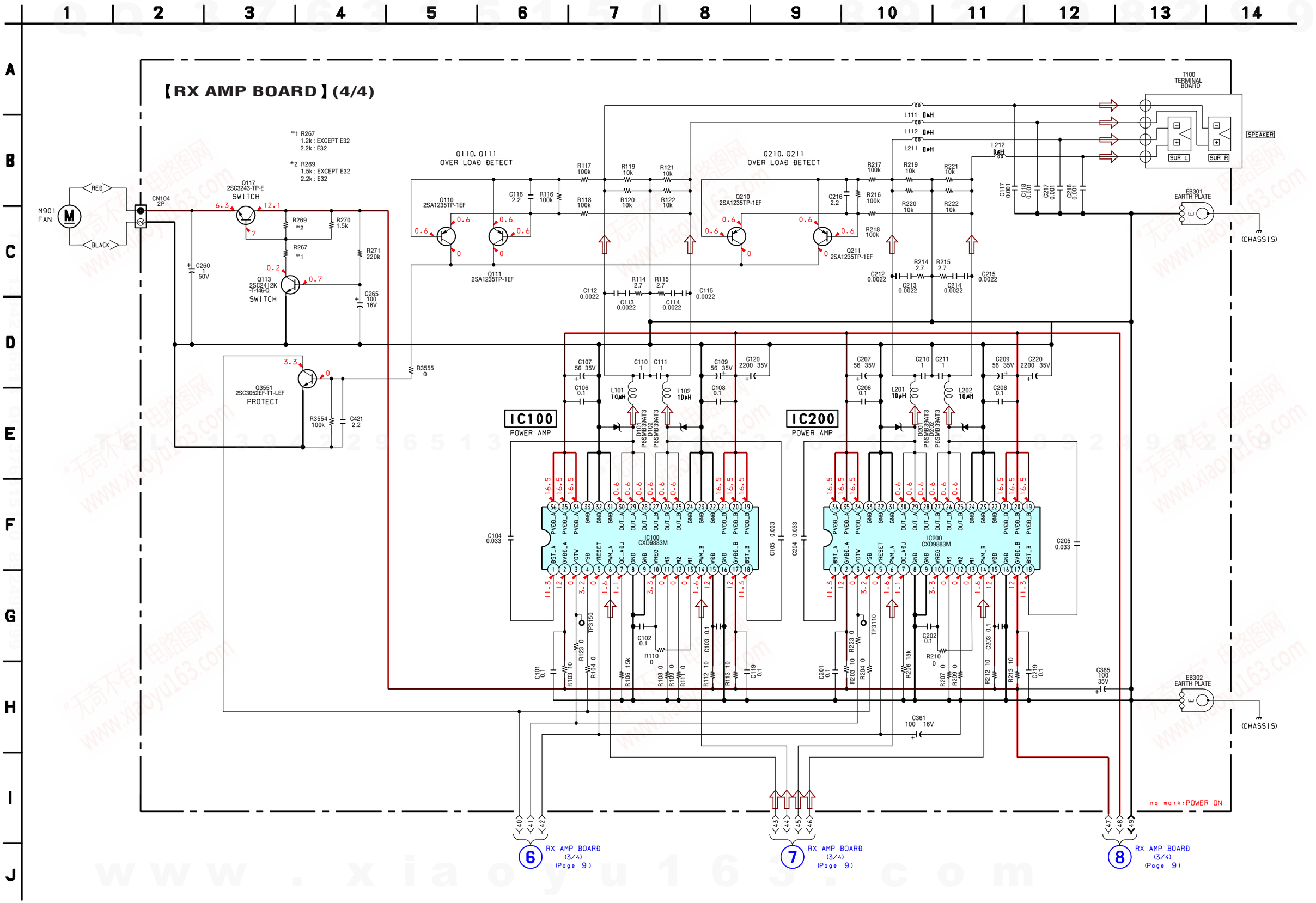
2-5. SCHEMATIC DIAGRAM — RX AMP BOARD (3/4) —

• See page 4 for Waveform. • See page 14 for IC Block Diagrams.



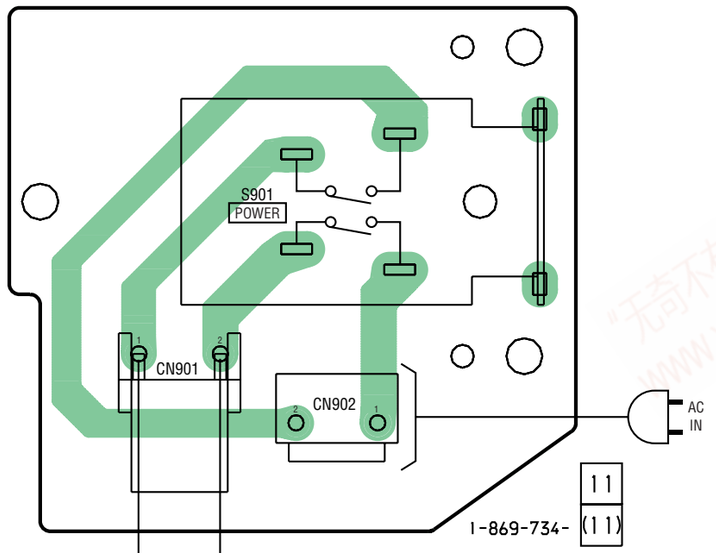
2-6. SCHEMATIC DIAGRAM — RX AMP BOARD (4/4) —

• See page 16 for IC Pin Function Description.

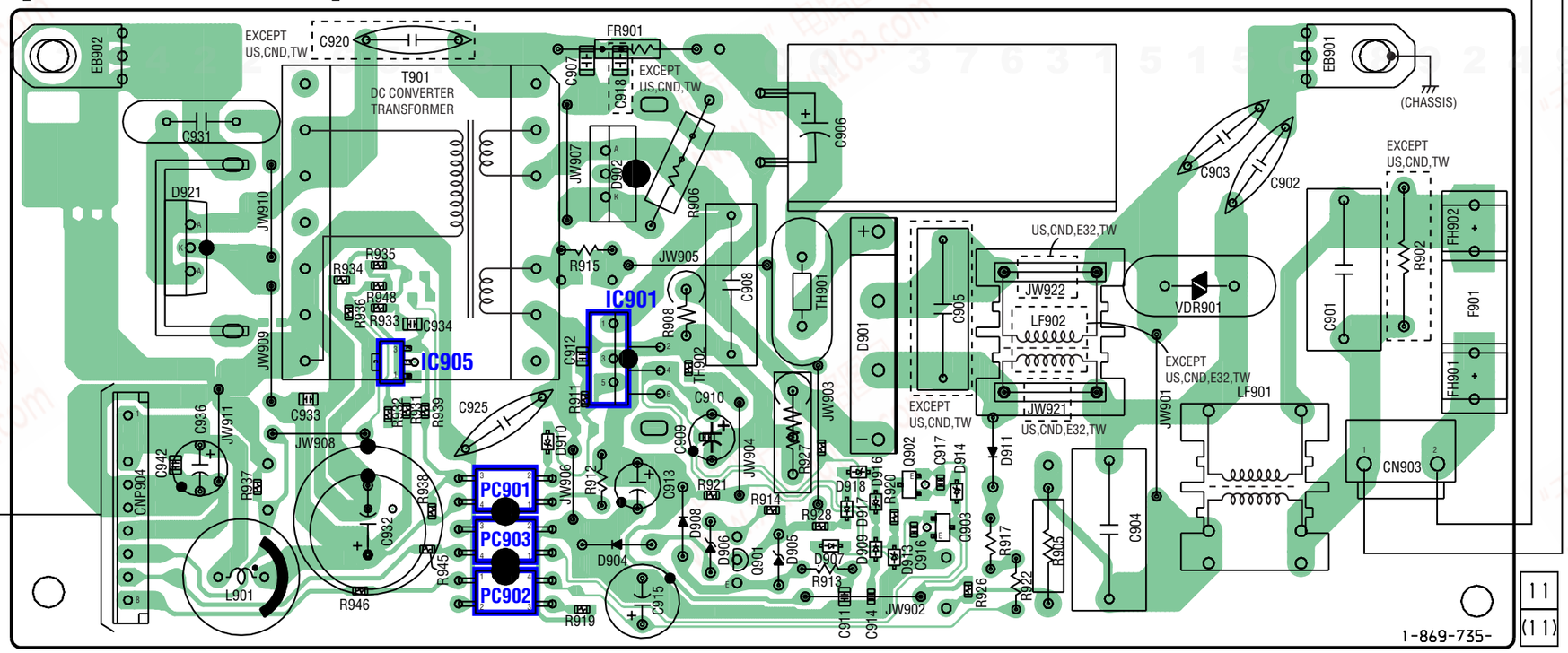


2-7. PRINTED WIRING BOARD — POWER SECTION — :Uses unleaded solder.

【POWER SWITCH BOARD】



【DIAT POWER BOARD】



- **Semiconductor Location**

Ref. No.	Location
D901	E-6
D902	E-5
D904	G-5
D905	G-6
D906	G-5
D907	G-7
D908	F-5
D909	G-6
D910	F-4
D911	F-7
D913	G-6
D914	F-6
D916	F-6
D917	F-6
D918	F-6
D921	E-3
IC901	E-5
IC905	F-4
PC901	F-4
PC902	G-4
PC903	F-4
Q901	G-5
Q902	F-6
Q903	F-6

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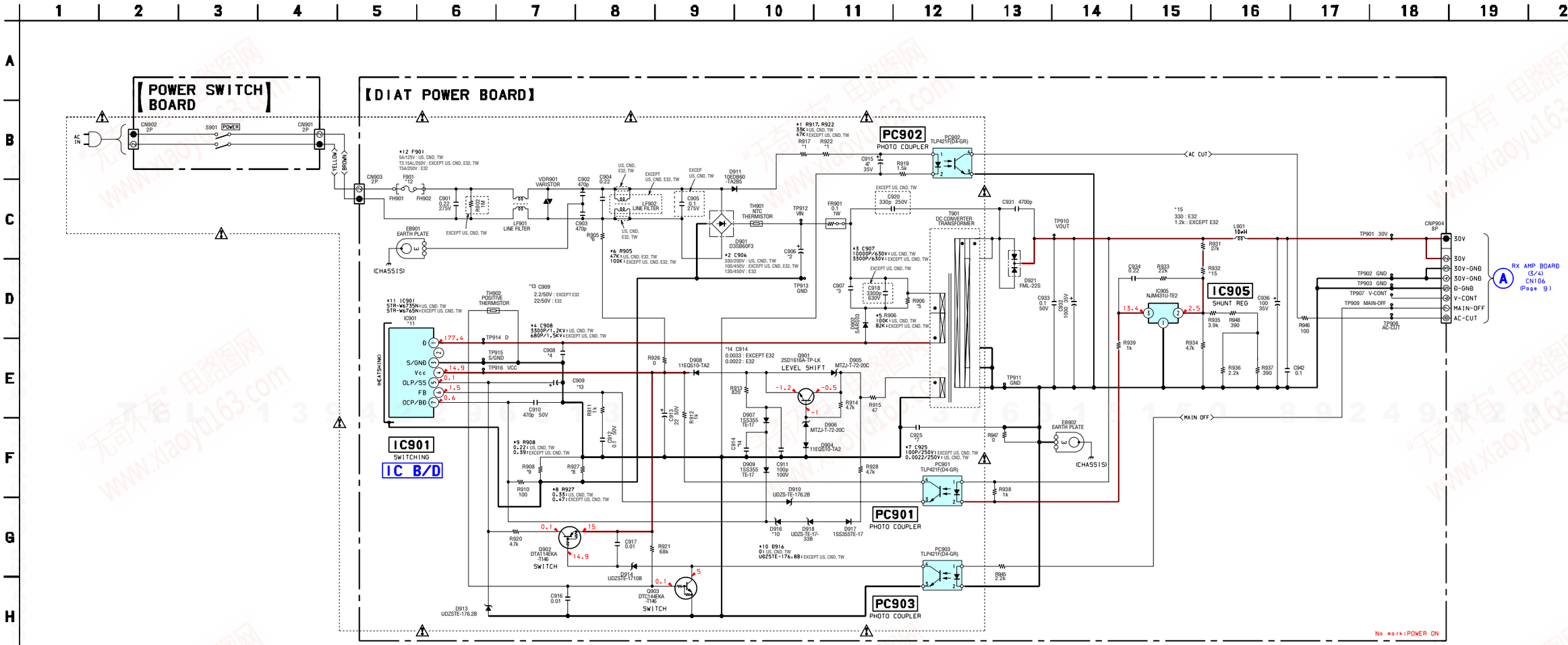
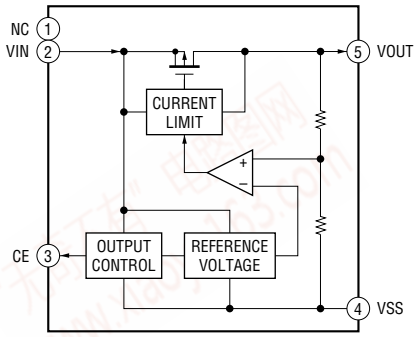
2-8. SCHEMATIC DIAGRAM — POWER SECTION — • See page 15 for IC Block Diagram.



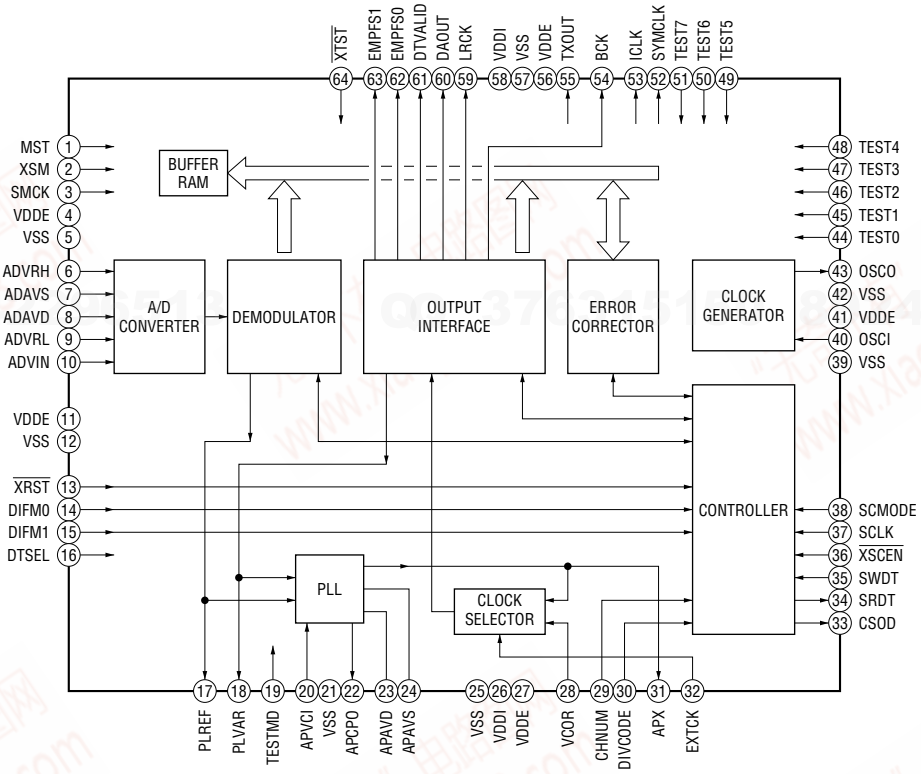
- **IC Block Diagrams**

– RX AMP Board –

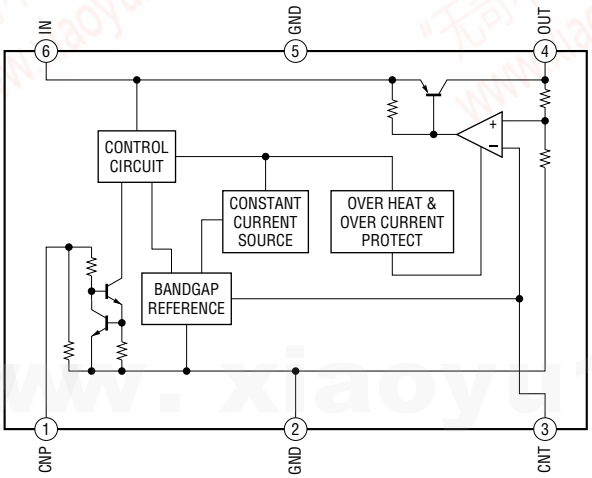
IC101 XC62HR1502MR



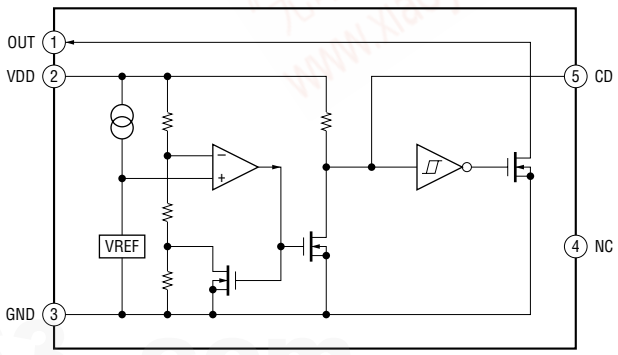
IC102 CXD4017R



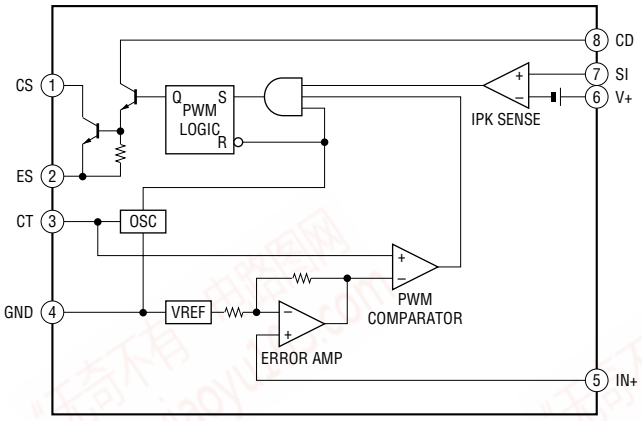
IC104 TK11225CMCL-G



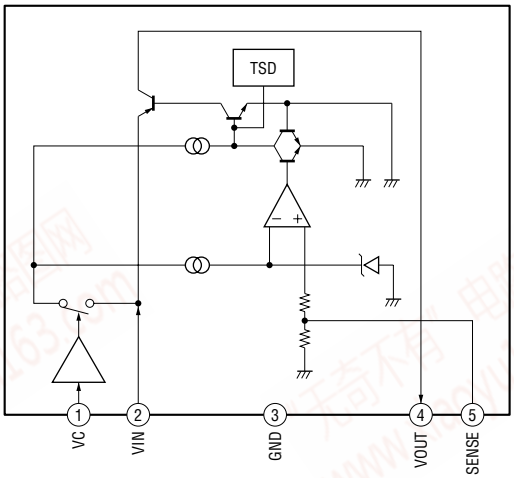
IC105 PST3629NR



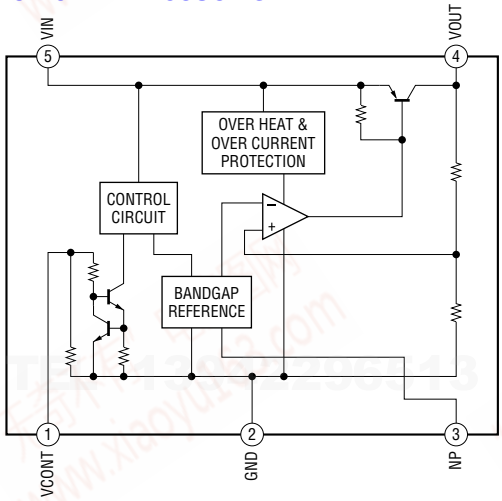
IC110 NJM2374AE (TE2)



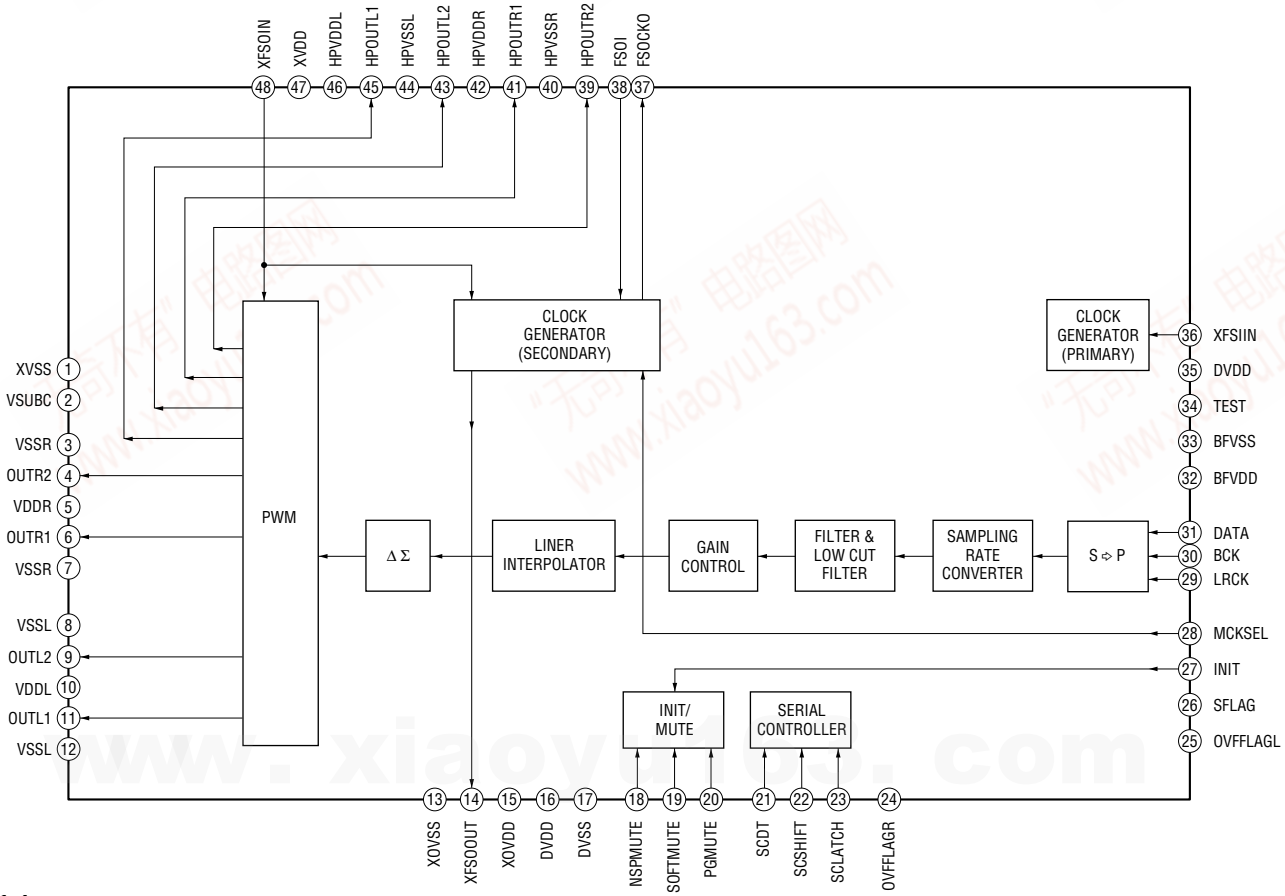
IC111 SI-3120KM-TL



IC113 TK11118CSCL-G

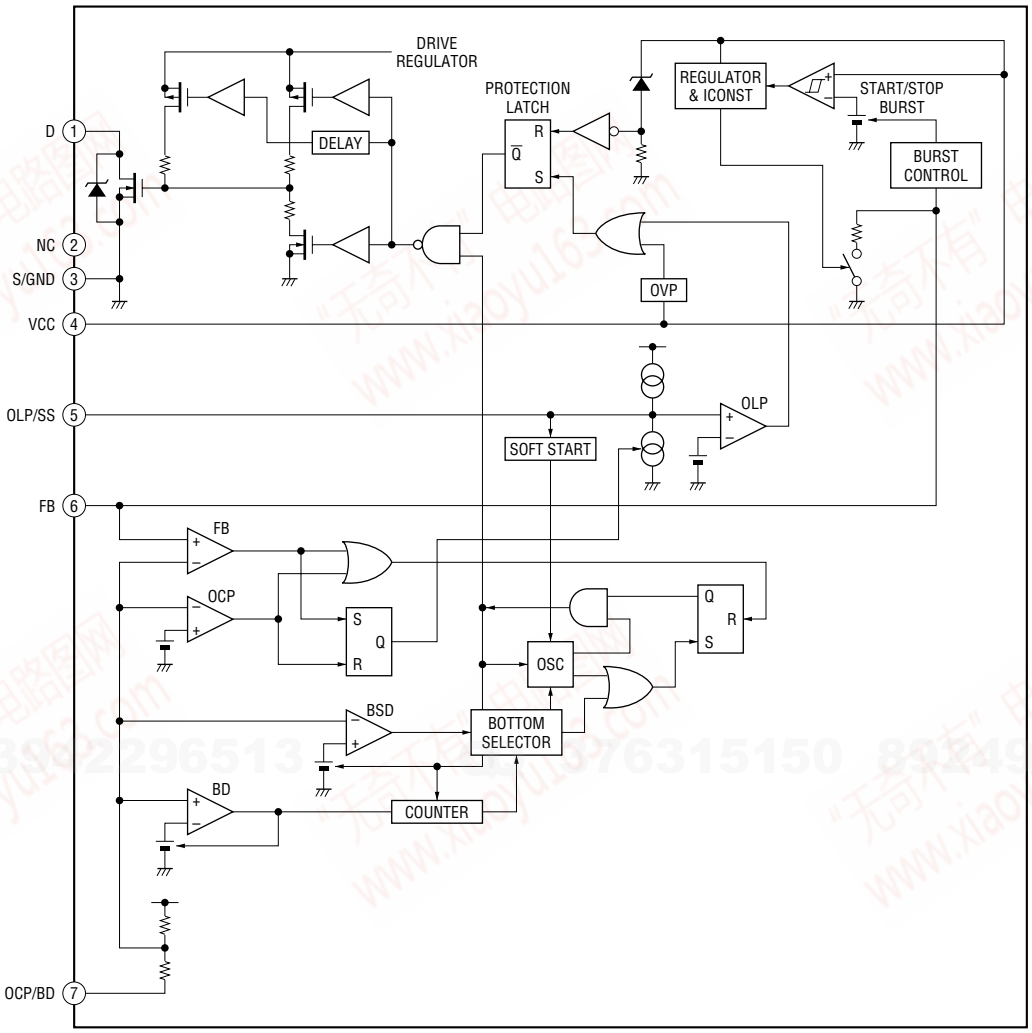


IC301 CXD9876R



– DIAT POWER Board –

IC901 STR-W6735N (US, CND, TW), STR-W6765N (EXCEPT US, CND, TW)



• **IC Pin Function Description**

RX AMP BOARD IC100, IC200 CXD9883M

Pin No.	Pin Name	I/O	Description
1	BST_A	I	Bootstrap terminal for half bridge A
2	GVDD_A	—	Gate drive voltage terminal for half bridge A
3	/OTW	O	Overheating wiring detection output terminal
4	/SD	I	Shutdown signal input terminal
5	/RESET	I	Reset signal input terminal
6	PWM_A	I	PWM signal input terminal for half bridge A
7	OC_ADJ	I	Over current limit program terminal
8	GND	—	Ground terminal
9	AGND	—	Ground terminal
10	VREG	O	Internal voltage regulator and decoupling connect terminal
11	M3	I	Acceptance test ta factory terminal
12	M2	I	Mode select 2 (MSB)
13	M1	I	Mode select 1 (MSB)
14	PWM_B	I	PWM signal input terminal for half bridge B
15	VDD	—	Power supply terminal
16	GND	—	Ground terminal
17	GVDD_B	—	Gate drive voltage terminal for half bridge B
18	BST_B	I	Bootstrap terminal for half bridge B
19	PVDD_B	—	Power supply terminal for half bridge B
20	PVDD_B	—	Power supply terminal for half bridge B
21	PVDD_B	—	Power supply terminal for half bridge B
22	PGND	—	Ground terminal
23	PGND	—	Ground terminal
24	PGND	—	Ground terminal
25	OUT_B	O	Half bridge B signal output terminal
26	OUT_B	O	Half bridge B signal output terminal
27	OUT_B	O	Half bridge B signal output terminal
28	OUT_A	O	Half bridge A signal output terminal
29	OUT_A	O	Half bridge A signal output terminal
30	OUT_A	O	Half bridge A signal output terminal
31	PGND	—	Ground terminal
32	PGND	—	Ground terminal
33	PGND	—	Ground terminal
34	PVDD_A	—	Power supply terminal for half bridge A
35	PVDD_A	—	Power supply terminal for half bridge A
36	PVDD_A	—	Power supply terminal for half bridge A

RX AMP BOARD IC107 MB89537APFM-G-1018E1 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	NC	—	Not used
2	MOD2	I	Setting terminal for the CPU operation mode Fixed at "L" in this set
3, 4	NC	—	Not used
5	MODEL	I	Setting terminal for the model
6	SIMUKE	I	Setting terminal for the destination
7 to 10	NC	—	Not used
11	AVCC	—	Power supply terminal (+3.3V) (for A/D converter)
12	AVR	I	Reference voltage (+3.3V) input terminal (for A/D converter)
13	AVSS	—	Ground terminal (for A/D converter)
14	DTVALID	I	Data valid flag input from the RF demodulator "L": invalid, "H": valid
15	CSOD	I	Captor start delay signal input from the RF demodulator "H": active
16	NC	I	Ground terminal
17	AC CUT	I	AC cut detection signal input terminal "L": AC cut
18	NC	I	Ground terminal
19	/RESET	I	Reset signal input terminal "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
20, 21	MD0, MD1	I	CPU operation mode setting signal input terminal
22	XO	O	Main system clock output terminal (8 MHz)
23	XI	I	Main system clock input terminal (8 MHz)
24	VSS	—	Ground terminal
25	FS2_EX	I	Not used
26	XRST_INIT	O	Reset signal output to the RF demodulator and stream processor "L": reset
27, 28	NC	—	Not used
29	P23	I	Setting terminal for the CPU operation mode Fixed at "L" in this set
30	P22	I	Setting terminal for the CPU operation mode Fixed at "H" in this set
31, 32	NC	—	Not used
33	DAMP_PGMUTE	O	PG muting on/off control signal output to the stream processor "L": muting on
34	DAMP_SOFTMUTE	O	Soft muting on/off control signal output to the stream processor "L": muting on
35	DAMP_NSPMUTE	O	NSP muting on/off control signal output to the stream processor "L": muting on
36	NC	—	Not used
37	DRIVE_RST	O	Reset signal output to the power driver "L": reset
38	DRIVE_OCP	I	Shut down state input from the power driver "L": shut down
39	DRIVE_OTW	I	Overtemperature warning signal input terminal Not used
40	P10	I	Setting terminal for the CPU operation mode Fixed at "H" in this set
41	LED_GREEN	O	LED drive signal output of the ON LINE indicator "H": LED on
42	LED_RED	O	LED drive signal output of the POWER indicator "H": LED on
43 to 47	NC	—	Not used
48	SCMODE	O	Control mode selection signal output to the RF demodulator "L": pin setting, "H": serial setting"
49	NC	—	Not used
50	XSCEN	O	Serial interface enable signal output to the RF demodulator
51	DIAT_SCLK	O	Serial interface data clock signal output to the RF demodulator
52	DIAT_SWDT	O	Serial interface data write signal output to the RF demodulator
53	DIAT_SRDT	I	Serial interface data read signal input from the RF demodulator
54	NC	—	Not used
55	T_SENSE	O	Not used
56	VCC	—	Power supply terminal (+3.3V)

Pin No.	Pin Name	I/O	Description
57	MAIN_OFF	O	Power off control signal output to the power control “H”: power off
58	V_CONT	O	Voltage control PWM signal output to the shunt regulator
59	DAMP_LATCH	O	Latch control signal output to the stream processor
60	DAMP_SHIFT	O	Shift clock signal output to the stream processor
61	DAMP_SCDT	O	Serial data output to the stream processor
62	SI2	I	Serial data input terminal
63	INT24	O	Not used
64	NC	O	Not used

SECTION 3
EXPLODED VIEWS

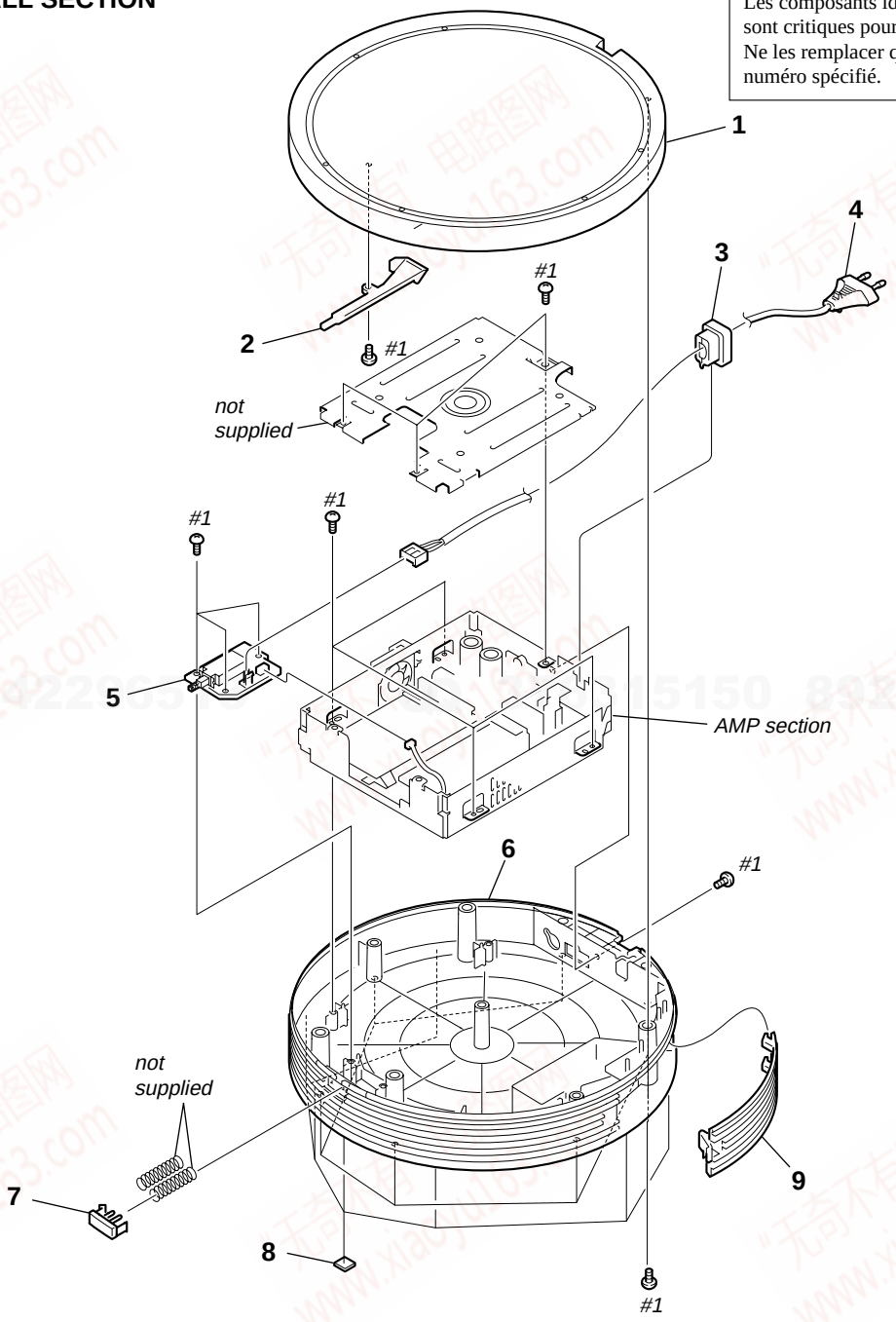
NOTE:

- -XX and -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.
- Abbreviation
  - AR : Argentina model
  - AUS : Australian model
  - CND : Canadian model
  - E3 : 240V AC area in E model
  - E32 : 110-240V AC area in E model
  - KR : Korean model
  - RU : Russian model
  - SP : Singapore model
  - TW : Taiwan model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

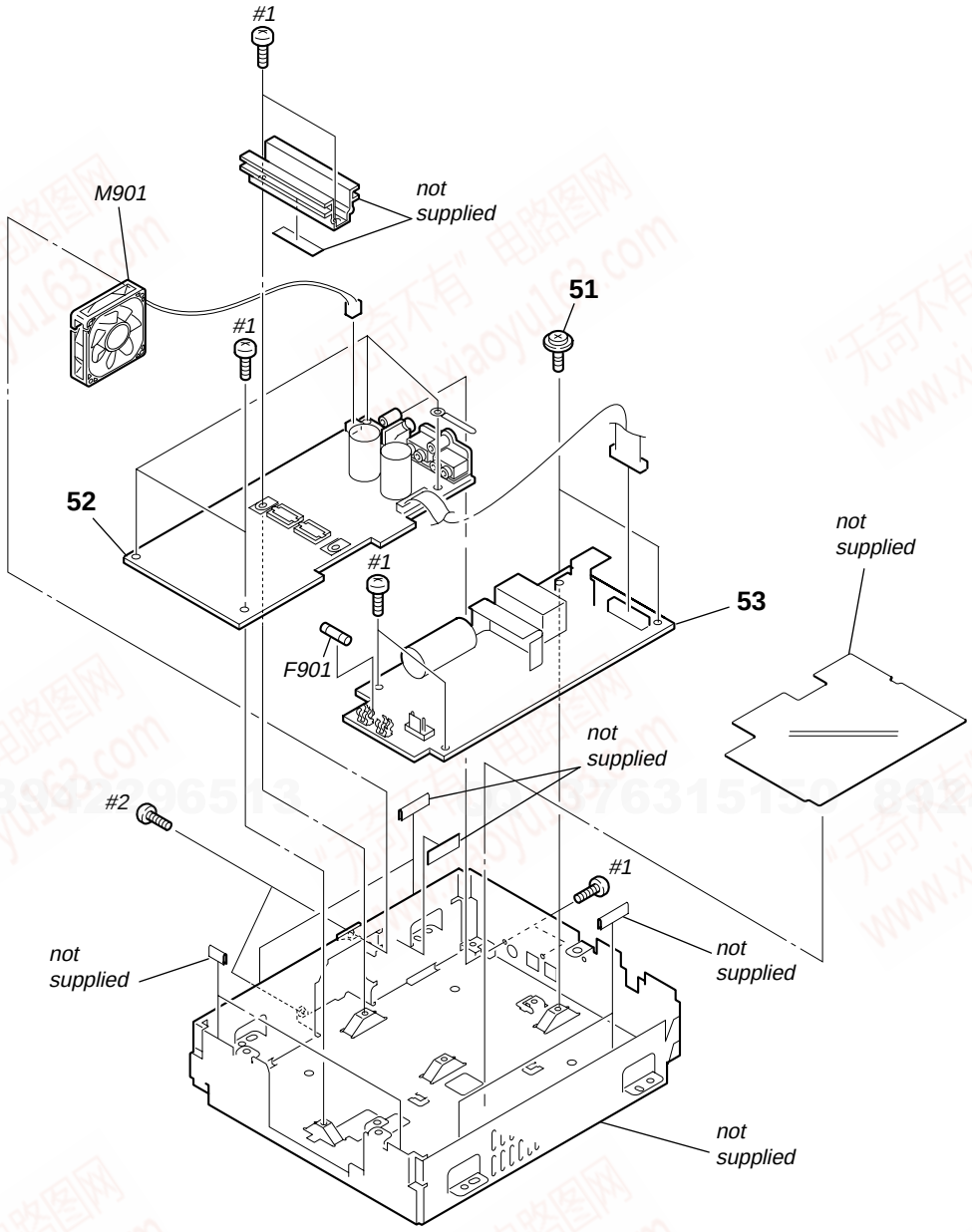
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

3-1. OVERALL SECTION



Ref. No.	Part No.	Description	Remark
1	2-668-424-01	CABINET, TOP (US, CND)	
1	2-668-424-11	CABINET, TOP (EXCEPT US, CND)	
2	2-668-425-01	INDICATOR, POWER (EXCEPT US, CND)	
2	2-668-425-11	INDICATOR, POWER (US, CND)	
3	3-703-244-00	BUSHING (2104), CORD	
⚠4	1-751-520-31	CORD, POWER (UK)	
⚠4	1-769-079-23	CORD, POWER (KR)	
⚠4	1-777-071-22	CORD, POWER (E3)	
⚠4	1-777-071-23	CORD, POWER (SP)	
⚠4	1-827-597-41	CORD, POWER (TW)	
⚠4	1-829-259-11	CORD, POWER (AUS)	
⚠4	1-829-387-11	CORD, POWER (AR)	
⚠4	1-830-188-11	CORD, POWER (AEP, RU, E32)	
⚠4	1-830-190-11	CORD, POWER (US, CND)	
5	A-1169-358-A	POWER SWITCH BOARD, COMPLETE	
6	2-668-426-01	PANEL, BOTTOM (US, CND)	
6	2-668-426-11	PANEL, BOTTOM (EXCEPT US, CND)	
7	2-668-427-01	BUTTON, POWER	
8	4-232-478-41	FOOT	
9	2-668-428-01	WIRE, COVER	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

3-2. AMP SECTION



Ref. No.	Part No.	Description	Remark
51	2-677-839-01	+PWH 3X8 (SUMITITE)	
52	A-1169-356-A	RX AMP BOARD, COMPLETE (EXCEPT E32)	
52	A-1203-064-A	RX AMP BOARD, COMPLETE (E32)	
53	A-1169-360-A	DIAT POWER BOARD, COMPLETE (US, CND)	
53	A-1169-378-A	DIAT POWER BOARD, COMPLETE (EXCEPT US, CND, E32)	
53	A-1169-417-A	DIAT POWER BOARD, COMPLETE (E32)	
53	A-1169-447-A	DIAT POWER BOARD, COMPLETE (TW)	
⚠F901	1-532-237-00	FUSE TIME-LAG T3.15A/250V (EXCEPT US, CND, E32, TW)	
⚠F901	1-532-505-33	FUSE T5A/250V (E32)	
⚠F901	1-576-109-11	FUSE 5A/125V (US, CND, TW)	
M901	1-787-331-11	FAN, D.C.	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-881-09	SCREW +BVTT 4X8 (S)	

SECTION 4
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.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- Abbreviation
  AR : Argentina model
  AUS : Australian model
  CND : Canadian model
  E3 : 240V AC area in E model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

E32 : 110-240V AC area in E model
KR : Korean model
RU : Russian model
SP : Singapore model
TW : Taiwan model

Ref. No.	Part No.	Description			Remark
	A-1169-360-A	DIAT POWER BOARD, COMPLETE (US, CND)			
	A-1169-378-A	DIAT POWER BOARD, COMPLETE			
		(EXCEPT US, CND, E32, TW)			
	A-1169-417-A	DIAT POWER BOARD, COMPLETE (E32)			
	A-1169-447-A	DIAT POWER BOARD, COMPLETE (TW)			
		**********			
	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3			
		< CAPACITOR >			
⚠C901	1-165-529-11	MYLAR	0.22uF	10	275V
⚠C902	1-113-900-11	CERAMIC	470PF	10%	250V
⚠C903	1-113-900-11	CERAMIC	470PF	10%	250V
⚠C904	1-165-529-11	MYLAR	0.22uF	10	275V
⚠C905	1-165-528-11	MYLAR	0.1uF	10	275V
					(EXCEPT US, CND, TW)
⚠C906	1-100-922-11	ELECT	330uF	20%	200V
					(US, CND, TW)
⚠C906	1-100-923-11	ELECT	100uF	20%	450V
					(EXCEPT US, CND, E32, TW)
⚠C906	1-114-237-11	ELECT	130uF	20%	450V
					(E32)
⚠C907	1-165-883-11	CERAMIC CHIP	10000PF	10%	630V
					(US, CND, TW)
⚠C907	1-165-886-11	CERAMIC CHIP	3300PF	10%	630V
					(EXCEPT US, CND, TW)
⚠C908	1-117-631-11	FILM	3300PF	3%	1.2KV
					(US, CND, TW)
⚠C908	1-125-893-11	FILM	680PF	3%	1.5KV
					(EXCEPT US, CND, TW)
⚠C909	1-107-903-11	ELECT	2.2uF	20%	50V
					(EXCEPT E32)
⚠C909	1-107-907-11	ELECT	22uF	20%	50V
					(E32)
⚠C910	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
⚠C911	1-164-162-11	CERAMIC CHIP	100PF	5%	100V
⚠C912	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
⚠C913	1-107-907-11	ELECT	22uF	20%	50V
⚠C914	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
					(E32)
⚠C914	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
					(EXCEPT E32)
⚠C915	1-107-909-11	ELECT	47uF	20%	35V
⚠C916	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
⚠C917	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
⚠C918	1-165-886-11	CERAMIC CHIP	3300PF	10%	630V
					(EXCEPT US, CND, TW)

Ref. No.	Part No.	Description			Remark
⚠C920	1-113-898-11	CERAMIC	330PF	10%	250V
					(EXCEPT US, CND, TW)
⚠C925	1-117-693-11	CERAMIC	100PF	10%	250V
					(EXCEPT US, CND, TW)
⚠C925	1-113-907-51	CERAMIC	0.0022uF	99%	250V
					(US, CND, TW)
C931	1-125-782-91	CERAMIC	4700PF	10%	1KV
C932	1-128-959-21	ELECT	1000uF	20%	35V
C933	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C934	1-114-242-11	CAP, CERAMIC	0.22MF X7R (2012)		
C936	1-126-948-11	ELECT	100uF	20%	35V
C942	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
		< CONNECTOR >			
CN903	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CNP904	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
		< DIODE >			
⚠D901	8-719-077-77	DIODE D3SB60F3			
⚠D902	6-500-241-01	DIODE SARS03			
⚠D904	8-719-200-93	DIODE 11EQS10-TA2			
⚠D905	8-719-079-20	DIODE MTZJ-T-72-20C			
⚠D906	8-719-079-20	DIODE MTZJ-T-72-20C			
⚠D907	6-501-193-01	DIODE 1SS355WTE-17			
⚠D908	8-719-200-93	DIODE 11EQS10-TA2			
⚠D909	6-501-193-01	DIODE 1SS355WTE-17			
⚠D910	8-719-069-56	DIODE UDZSTE-176.2B			
⚠D911	6-500-593-41	DIODE 10EDB60-TA2B5			
⚠D913	8-719-069-56	DIODE UDZSTE-176.2B			
⚠D914	8-719-977-28	DIODE UDZSTE-1710B			
⚠D916	1-216-864-11	SHORT CHIP 0 (US, CND, TW)			
⚠D916	8-719-978-33	DIODE UDZSTE-176.8B			
					(EXCEPT US, CND, TW)
⚠D917	6-501-193-01	DIODE 1SS355WTE-17			
⚠D918	8-719-083-87	DIODE UDZS-TE17-33B			
D921	8-719-313-14	DIODE FML-22S			
		< GROUND TERMINAL BOARD >			
EB901	1-537-770-21	TERMINAL BOARD, GROUND			
EB902	1-537-770-21	TERMINAL BOARD, GROUND			
		< FUSE HOLDER >			
FH901	1-533-313-11	FUSE HOLDER			

TA-WR4

Ver. 1.2

DIAT POWER | **POWER SWITCH** | **RX AMP**

Ref. No.	Part No.	Description			Remark
FH902	1-533-313-11	FUSE HOLDER			
		< RESISTOR >			
⚠FR901	1-220-886-11	FUSIBLE	0.1	10%	1W
		< IC >			
⚠IC901	6-706-347-01	IC STR-W6735N (US, CND, TW)			
⚠IC901	6-706-348-01	IC STR-W6765N (EXCEPT US, CND, TW)			
IC905	8-759-710-88	IC NJM431U-TE2			
		< COIL >			
L901	1-456-509-11	INDUCTOR	10uH		
		< LINE FILTER >			
⚠LF901	1-419-785-11	COIL, LINE FILTER (EXCEPT US, CND, E32, TW)			
⚠LF901	1-424-930-11	COIL, LINE FILTER (US, CND, E32, TW)			
⚠LF902	1-419-785-11	COIL, LINE FILTER (EXCEPT US, CND, E32, TW)			
		< IC >			
⚠PC901	6-600-438-01	IC TLP421F (D4-GR)			
⚠PC902	6-600-438-01	IC TLP421F (D4-GR)			
⚠PC903	6-600-438-01	IC TLP421F (D4-GR)			
		< TRANSISTOR >			
⚠Q901	8-729-142-51	TRANSISTOR	2SD1616A-TP-LK		
⚠Q902	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
⚠Q903	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
		< RESISTOR >			
⚠R902	1-219-759-11	METAL	1M	5%	1/2W (EXCEPT US, CND, TW)
⚠R905	1-215-902-11	METAL OXIDE	47K	5%	1W (US, CND, E32, TW)
⚠R905	1-218-642-11	METAL OXIDE	100K	5%	1W (EXCEPT US, CND, E32, TW)
⚠R906	1-215-904-11	METAL OXIDE	100K	5%	2W (US, CND, TW)
⚠R906	1-216-468-11	METAL OXIDE	82K	5%	2W (EXCEPT US, CND, TW)
⚠R908	1-216-344-00	METAL OXIDE	0.39	5%	1W (EXCEPT US, CND, TW)
⚠R908	1-216-361-61	METAL OXIDE	0.22	5%	2W (US, CND, TW)
⚠R910	1-216-809-11	METAL CHIP	100	5%	1/10W
⚠R911	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠R912	1-247-831-91	CARBON	1K	5%	1/4W
⚠R913	1-249-416-11	CARBON	820	5%	1/4W
⚠R914	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R915	1-249-401-81	CARBON	47	5%	1/4W
⚠R917	1-249-435-11	CARBON	33K	5%	1/4W (US, CND, TW)
⚠R917	1-247-871-91	CARBON	47K	5%	1/4W (EXCEPT US, CND, TW)
⚠R919	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
⚠R920	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R921	1-216-843-11	METAL CHIP	68K	5%	1/10W
⚠R922	1-249-435-11	CARBON	33K	5%	1/4W (US, CND, TW)

Ref. No.	Part No.	Description			Remark
⚠R922	1-247-871-91	CARBON	47K	5%	1/4W (EXCEPT US, CND, TW)
⚠R926	1-216-864-11	SHORT CHIP	0		
⚠R927	1-217-152-00	METAL	0.33	10%	2W (US, CND, TW)
⚠R927	1-217-153-00	METAL	0.47	10%	2W (EXCEPT US, CND, TW)
⚠R928	1-216-829-11	METAL CHIP	330K	5%	1/10W
R931	1-218-726-11	METAL CHIP	27K	0.5%	1/10W
R932	1-216-815-11	METAL CHIP	330	5%	1/10W (E32)
R932	1-216-822-11	METAL CHIP	1.2K	5%	1/10W (EXCEPT E32)
R933	1-216-837-11	METAL CHIP	22K	5%	1/10W
R934	1-218-708-11	METAL CHIP	4.7K	0.5%	1/10W
R935	1-218-706-11	METAL CHIP	3.9K	0.5%	1/10W
R936	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R937	1-216-816-11	METAL CHIP	390	5%	1/10W
R938	1-216-821-11	METAL CHIP	1K	5%	1/10W
R939	1-216-821-11	METAL CHIP	1K	5%	1/10W
R945	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R946	1-216-809-11	METAL CHIP	100	5%	1/10W
R948	1-216-816-11	METAL CHIP	390	5%	1/10W
		< TRANSFORMER >			
⚠T901	1-443-996-11	TRANSFORMER, DC CONVERTER (EXCEPT US, CND, TW)			
⚠T901	1-443-997-11	TRANSFORMER, DC CONVERTER (US, CND, TW)			
		< THERMISTOR >			
⚠TH901	1-803-916-11	THERMISTOR, NTC			
⚠TH902	1-805-553-21	THERMISTOR, POSITIVE			
		< VARISTOR >			
⚠VDR901	1-805-482-11	VARISTOR			
**********					
	A-1169-358-A	POWER SWITCH BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
* CN901	1-695-044-11	PIN, CONNECTOR (3.96mm PITCH) 2P			
CN902	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
		< SWITCH >			
⚠S901	1-571-433-31	SWITCH, PUSH (AC POWER)(POWER)			
**********					
	A-1169-356-A	RX AMP BOARD, COMPLETE (EXCEPT E32)			
	A-1203-064-A	RX AMP BOARD, COMPLETE (E32)			
		**********			
		< CAPACITOR >			
C101	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C102	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C103	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C104	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C105	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V

Ref. No.	Part No.	Description			Remark
C106	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C107	1-165-739-31	ELECT	56uF	20%	35V
C108	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C109	1-165-739-31	ELECT	56uF	20%	35V
C110	1-136-177-00	FILM	1uF	5%	50V
C111	1-136-177-00	FILM	1uF	5%	50V
C112	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C113	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C114	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C115	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C116	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C117	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C118	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C119	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C120	1-112-831-11	ELECT	2200uF	20%	35V
C201	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C202	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C203	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C204	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C205	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C206	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C207	1-165-739-31	ELECT	56uF	20%	35V
C208	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C209	1-165-739-31	ELECT	56uF	20%	35V
C210	1-136-177-00	FILM	1uF	5%	50V
C211	1-136-177-00	FILM	1uF	5%	50V
C212	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C213	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C214	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C215	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C216	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C217	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C218	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C219	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C220	1-112-831-11	ELECT	2200uF	20%	35V
C260	1-126-960-11	ELECT	1uF	20%	50V
C265	1-126-933-11	ELECT	100uF	20%	16V
C311	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C313	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C314	1-126-964-11	ELECT	10uF	20%	50V
C315	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C316	1-126-947-11	ELECT	47uF	20%	16V
C317	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C318	1-126-947-11	ELECT	47uF	20%	16V
C319	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C320	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C321	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C322	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C324	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C325	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C326	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C327	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C328	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C329	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C330	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C331	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C332	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C333	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C334	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C335	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C336	1-126-947-11	ELECT	47uF	20%	16V
C337	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C338	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C339	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C340	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C341	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C342	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C343	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C344	1-126-947-11	ELECT	47uF	20%	16V
C345	1-126-964-11	ELECT	10uF	20%	50V
C346	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C348	1-126-964-11	ELECT	10uF	20%	50V
C349	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C350	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C351	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C354	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C355	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C356	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C357	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C358	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C359	1-104-658-91	ELECT	100uF	20%	10V
C360	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C361	1-126-933-11	ELECT	100uF	20%	16V
C363	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C364	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C365	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C366	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C367	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C368	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C369	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C370	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C371	1-126-933-11	ELECT	100uF	20%	16V
C372	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C373	1-126-948-11	ELECT	100uF	20%	35V
C375	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C376	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C377	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C378	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C379	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C380	1-126-933-11	ELECT	100uF	20%	16V
C381	1-126-948-11	ELECT	100uF	20%	35V
C382	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C383	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C384	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C385	1-126-948-11	ELECT	100uF	20%	35V
C386	1-126-948-11	ELECT	100uF	20%	35V
C387	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C388	1-104-658-91	ELECT	100uF	20%	10V
C389	1-126-933-11	ELECT	100uF	20%	16V
C390	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C391	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C392	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C395	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C401	1-126-947-11	ELECT	47uF	20%	16V
C402	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C403	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C404	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C405	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C406	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C407	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C409	1-135-372-31	ELECT	470uF	20%	10V
C410	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C411	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C413	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C414	1-126-923-91	ELECT	220uF	20%	10V
C415	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C416	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C417	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C418	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C421	1-164-505-11	CERAMIC CHIP	2.2uF		16V
		< CONNECTOR >			
CN104	1-564-704-41	PIN, CONNECTOR (SMALL TYPE) 2P			
CN303	1-568-826-11	CONNECTOR, FFC 7P			
		< DIODE >			
D100	8-719-920-55	DIODE	SPR-54MVW (POWER/ON LINE)		
D101	6-500-260-01	DIODE	P6SMB39AT3		
D102	6-500-260-01	DIODE	P6SMB39AT3		
D201	6-500-260-01	DIODE	P6SMB39AT3		
D202	6-500-260-01	DIODE	P6SMB39AT3		
D303	6-501-193-01	DIODE	1SS355WTE-17		
D304	6-501-193-01	DIODE	1SS355WTE-17		
D306	8-719-210-21	DIODE	11EQS04-TA2B		
		< GROUND TERMINAL BOARD >			
EB101	1-537-770-21	TERMINAL BOARD, GROUND			
EB102	1-537-770-21	TERMINAL BOARD, GROUND			
EB301	1-537-770-21	TERMINAL BOARD, GROUND			
EB302	1-537-770-21	TERMINAL BOARD, GROUND			
		< FERRITE BEAD >			
FB101	1-500-283-11	INDUCTOR, FERRITE BEAD			
FB102	1-500-283-11	INDUCTOR, FERRITE BEAD			
FB103	1-500-283-11	INDUCTOR, FERRITE BEAD			
FB104	1-500-283-11	INDUCTOR, FERRITE BEAD			
FB105	1-469-760-21	FERRITE, EMI (SMD)(2012)			
FB106	1-469-760-21	FERRITE, EMI (SMD)(2012)			
FB107	1-469-760-21	FERRITE, EMI (SMD)(2012)			
FB109	1-469-760-21	FERRITE, EMI (SMD)(2012)			
FB3051	1-216-295-91	SHORT CHIP	0		
		< IC >			
IC100	6-708-921-01	IC	CXD9883M		
IC101	6-701-851-01	IC	XC62HR1502MR		
IC102	8-752-425-06	IC	CXD4017R		
IC103	8-759-548-99	IC	SN74LV08APWR		
IC104	6-704-261-01	IC	TK11225CMCL-G		
IC105	6-701-680-01	IC	PST3629NR		
IC106	8-759-679-55	IC	SN74LVC08APWR		
IC107	6-806-491-01	IC	MB89537APFM-G-1018E1		
IC108	6-707-487-01	IC	NJM2885DL1-33 (TE2)		
IC109	8-759-679-55	IC	SN74LVC08APWR		
IC110	6-703-978-01	IC	NJM2374AE (TE2)		
IC111	6-707-746-01	IC	SI-3120KM-TL		
IC113	6-702-300-01	IC	TK11118CSCL-G		
IC200	6-708-921-01	IC	CXD9883M		
IC301	6-709-035-01	IC	CXD9876R		
IC3051	8-759-649-50	IC	SN74AHC1GU04DCKR		
		< JACK >			
J310	1-818-633-11	JACK, PIN 1P (SS-TS56W)			
		< COIL >			
L101	1-456-680-11	INDUCTOR	10uH		
L102	1-456-680-11	INDUCTOR	10uH		
L111	1-457-077-11	AIR-CORE COIL			
L112	1-457-078-11	AIR-CORE COIL			
L201	1-456-680-11	INDUCTOR	10uH		
L202	1-456-680-11	INDUCTOR	10uH		
L211	1-457-077-11	AIR-CORE COIL			
L212	1-457-078-11	AIR-CORE COIL			
L304	1-400-305-11	INDUCTOR	47uH		
L305	1-469-525-91	INDUCTOR	10uH		
L306	1-469-525-91	INDUCTOR	10uH		
L307	1-469-525-91	INDUCTOR	10uH		
L308	1-469-525-91	INDUCTOR	10uH		
L309	1-469-525-91	INDUCTOR	10uH		
L310	1-469-525-91	INDUCTOR	10uH		
L311	1-469-525-91	INDUCTOR	10uH		
L312	1-469-525-91	INDUCTOR	10uH		
L313	1-414-398-11	INDUCTOR	10uH		
L314	1-416-040-11	INDUCTOR	220uH		
L3053	1-414-754-11	INDUCTOR	10uH		
L3054	1-412-939-11	INDUCTOR	1uH		
L3055	1-216-295-91	SHORT CHIP	0		
		< TRANSISTOR >			
Q110	8-729-600-22	TRANSISTOR	2SA1235TP-1EF		
Q111	8-729-600-22	TRANSISTOR	2SA1235TP-1EF		
Q113	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q117	6-550-702-01	TRANSISTOR	2SC3243-TP-E		
Q210	8-729-600-22	TRANSISTOR	2SA1235TP-1EF		
Q211	8-729-600-22	TRANSISTOR	2SA1235TP-1EF		
Q305	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6		
Q306	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q307	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q308	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q309	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q310	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q3551	8-729-120-28	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R101	1-216-809-11	METAL CHIP	100	5%	1/10W
R102	1-216-809-11	METAL CHIP	100	5%	1/10W
R103	1-216-797-11	METAL CHIP	10	5%	1/10W
R104	1-216-864-11	SHORT CHIP	0		
R106	1-216-835-11	METAL CHIP	15K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R108	1-216-864-11	SHORT CHIP	0		
R109	1-216-864-11	SHORT CHIP	0		
R110	1-216-864-11	SHORT CHIP	0		
R112	1-216-797-11	METAL CHIP	10	5%	1/10W
R113	1-216-797-11	METAL CHIP	10	5%	1/10W
R114	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R115	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R116	1-216-845-11	METAL CHIP	100K	5%	1/10W
R117	1-216-845-11	METAL CHIP	100K	5%	1/10W
R118	1-216-845-11	METAL CHIP	100K	5%	1/10W
R119	1-216-833-11	METAL CHIP	10K	5%	1/10W
R120	1-216-833-11	METAL CHIP	10K	5%	1/10W
R121	1-216-833-11	METAL CHIP	10K	5%	1/10W
R122	1-216-833-11	METAL CHIP	10K	5%	1/10W
R123	1-216-864-11	SHORT CHIP	0		
R201	1-216-809-11	METAL CHIP	100	5%	1/10W
R202	1-216-809-11	METAL CHIP	100	5%	1/10W
R203	1-216-797-11	METAL CHIP	10	5%	1/10W
R204	1-216-864-11	SHORT CHIP	0		
R206	1-216-835-11	METAL CHIP	15K	5%	1/10W
R207	1-216-864-11	SHORT CHIP	0		
R209	1-216-864-11	SHORT CHIP	0		
R210	1-216-864-11	SHORT CHIP	0		
R212	1-216-797-11	METAL CHIP	10	5%	1/10W
R213	1-216-797-11	METAL CHIP	10	5%	1/10W
R214	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R215	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R216	1-216-845-11	METAL CHIP	100K	5%	1/10W
R217	1-216-845-11	METAL CHIP	100K	5%	1/10W
R218	1-216-845-11	METAL CHIP	100K	5%	1/10W
R219	1-216-833-11	METAL CHIP	10K	5%	1/10W
R220	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-216-833-11	METAL CHIP	10K	5%	1/10W
R222	1-216-833-11	METAL CHIP	10K	5%	1/10W
R223	1-216-864-11	SHORT CHIP	0		
R267	1-216-822-11	METAL CHIP	1.2K	5%	1/10W (EXCEPT E32)
R267	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (E32)
R269	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (E32)
R269	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (EXCEPT E32)
R270	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R271	1-216-849-11	METAL CHIP	220K	5%	1/10W
R311	1-216-864-11	SHORT CHIP	0		
R312	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R313	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R314	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R316	1-216-811-11	METAL CHIP	150	5%	1/10W
R317	1-216-833-11	METAL CHIP	10K	5%	1/10W
R318	1-216-820-11	METAL CHIP	820	5%	1/10W
R319	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R320	1-216-841-11	METAL CHIP	47K	5%	1/10W
R321	1-216-809-11	METAL CHIP	100	5%	1/10W
R322	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R323	1-216-821-11	METAL CHIP	1K	5%	1/10W
R324	1-216-813-11	METAL CHIP	220	5%	1/10W
R325	1-216-809-11	METAL CHIP	100	5%	1/10W
R326	1-216-809-11	METAL CHIP	100	5%	1/10W
R327	1-216-809-11	METAL CHIP	100	5%	1/10W
R328	1-216-809-11	METAL CHIP	100	5%	1/10W
R329	1-216-807-11	METAL CHIP	68	5%	1/10W
R330	1-216-833-11	METAL CHIP	10K	5%	1/10W
R331	1-216-821-11	METAL CHIP	1K	5%	1/10W
R332	1-216-821-11	METAL CHIP	1K	5%	1/10W
R333	1-216-821-11	METAL CHIP	1K	5%	1/10W
R335	1-216-833-11	METAL CHIP	10K	5%	1/10W
R336	1-216-837-11	METAL CHIP	22K	5%	1/10W
R337	1-216-841-11	METAL CHIP	47K	5%	1/10W
R338	1-216-811-11	METAL CHIP	150	5%	1/10W
R339	1-216-821-11	METAL CHIP	1K	5%	1/10W
R340	1-216-841-11	METAL CHIP	47K	5%	1/10W
R341	1-216-815-11	METAL CHIP	330	5%	1/10W
R342	1-216-809-11	METAL CHIP	100	5%	1/10W
R344	1-216-809-11	METAL CHIP	100	5%	1/10W
R345	1-216-809-11	METAL CHIP	100	5%	1/10W
R346	1-216-841-11	METAL CHIP	47K	5%	1/10W
R347	1-216-809-11	METAL CHIP	100	5%	1/10W
R348	1-216-809-11	METAL CHIP	100	5%	1/10W
R349	1-216-809-11	METAL CHIP	100	5%	1/10W
R350	1-216-833-11	METAL CHIP	10K	5%	1/10W
R351	1-216-809-11	METAL CHIP	100	5%	1/10W
R352	1-216-809-11	METAL CHIP	100	5%	1/10W
R353	1-216-809-11	METAL CHIP	100	5%	1/10W
R354	1-216-809-11	METAL CHIP	100	5%	1/10W
R355	1-216-809-11	METAL CHIP	100	5%	1/10W
R356	1-216-809-11	METAL CHIP	100	5%	1/10W
R357	1-216-809-11	METAL CHIP	100	5%	1/10W
R358	1-216-864-11	SHORT CHIP	0		
R359	1-216-809-11	METAL CHIP	100	5%	1/10W
R360	1-216-809-11	METAL CHIP	100	5%	1/10W
R361	1-216-809-11	METAL CHIP	100	5%	1/10W
R362	1-216-809-11	METAL CHIP	100	5%	1/10W
R363	1-216-809-11	METAL CHIP	100	5%	1/10W
R364	1-216-809-11	METAL CHIP	100	5%	1/10W
R365	1-216-809-11	METAL CHIP	100	5%	1/10W
R366	1-216-809-11	METAL CHIP	100	5%	1/10W
R367	1-216-809-11	METAL CHIP	100	5%	1/10W
R368	1-216-809-11	METAL CHIP	100	5%	1/10W
R369	1-216-809-11	METAL CHIP	100	5%	1/10W
R370	1-216-809-11	METAL CHIP	100	5%	1/10W
R371	1-216-809-11	METAL CHIP	100	5%	1/10W
R372	1-216-821-11	METAL CHIP	1K	5%	1/10W
R373	1-216-841-11	METAL CHIP	47K	5%	1/10W
R374	1-216-845-11	METAL CHIP	100K	5%	1/10W
R376	1-216-833-11	METAL CHIP	10K	5%	1/10W
R377	1-216-841-11	METAL CHIP	47K	5%	1/10W
R378	1-216-833-11	METAL CHIP	10K	5%	1/10W
R379	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R380	1-216-841-11	METAL CHIP	47K	5%	1/10W
R381	1-216-841-11	METAL CHIP	47K	5%	1/10W
R382	1-216-821-11	METAL CHIP	1K	5%	1/10W
R383	1-216-809-11	METAL CHIP	100	5%	1/10W
R384	1-216-809-11	METAL CHIP	100	5%	1/10W
R385	1-216-809-11	METAL CHIP	100	5%	1/10W
R386	1-216-823-11	METAL CHIP	1.5K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R387	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R388	1-216-821-11	METAL CHIP	1K	5%	1/10W
R389	1-218-446-11	METAL CHIP	1	5%	1/10W
R390	1-218-446-11	METAL CHIP	1	5%	1/10W
R395	1-216-864-11	SHORT CHIP	0		
R397	1-216-841-11	METAL CHIP	47K	5%	1/10W
R399	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3016	1-216-864-11	SHORT CHIP	0		
R3052	1-216-857-11	METAL CHIP	1M	5%	1/10W
R3053	1-216-809-11	METAL CHIP	100	5%	1/10W
R3054	1-216-801-11	METAL CHIP	22	5%	1/10W
R3554	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3555	1-216-864-11	SHORT CHIP	0		
		< TERMINAL BOARD >			
T100	1-780-386-11	TERMINAL BOARD (SPEAKER)			
		< VIBRATOR >			
X101	1-781-465-21	VIBRATOR, CRYSTAL 12.288MHz			
X102	1-795-313-21	VIBRATOR, CERAMIC 8MHz			
X3051	1-795-660-21	QUARTZ CRYSTAL UNIT 49.152MHz			

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MISCELLANEOUS
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⚠4	1-751-520-31	CORD, POWER (UK)	
⚠4	1-769-079-23	CORD, POWER (KR)	
⚠4	1-777-071-22	CORD, POWER (E3)	
⚠4	1-777-071-23	CORD, POWER (SP)	
⚠4	1-827-597-41	CORD, POWER (TW)	
⚠4	1-829-259-11	CORD, POWER (AUS)	
⚠4	1-829-387-11	CORD, POWER (AR)	
⚠4	1-830-188-11	CORD, POWER (AEP, RU, E32)	
⚠4	1-830-190-11	CORD, POWER (US, CND)	
⚠F901	1-532-237-00	FUSE TIME-LAG T3.15A/250V (EXCEPT US, CND, E32)	
⚠F901	1-532-505-33	FUSE T5A/250V (E32)	
⚠F901	1-576-109-11	FUSE 5A/125V (US, CND, TW)	
M901	1-787-331-11	FAN, D.C.	

MEMO

REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2006.04	New
1.1	2006.06	Addition of Australian, Argentina, E3 (240V AC area in E model), E32 (110-240V AC area in E model), Korean, Russian and Singapore model
1.2	2006.09	Addition of Taiwan model
		Change of power cord for Singapore model (ECN-ECB75205)