

# MOD-RF1

## SERVICE MANUAL

*US Model  
Canadian Model  
AEP Model  
UK Model  
E Model  
Australian Model  
Chinese Model  
PX Model*



### SPECIFICATIONS

#### Inputs

AC-3 RF IN : 75Ω

#### Outputs

COAXIAL DIGITAL OUT : 0.5 V<sub>p-p</sub>, 75Ω

OPTICAL DIGITAL OUT : —

#### General

Power requirements : US, Canadian, PX models: 120V, 60Hz  
Other models: 220 – 230V, 50/60Hz

Power consumption : 6W

Dimensions (w/h/d) : Approx. 85 × 70 × 185 mm  
(3<sup>3</sup>/<sub>8</sub> × 2<sup>7</sup>/<sub>8</sub> × 7<sup>3</sup>/<sub>8</sub> inches)

Mass : Apporox. 780g  
(1 lb. 11 oz.)

Supplied accessories : Digital optical cable (1)

RF DEMODULATOR

**SONY**®



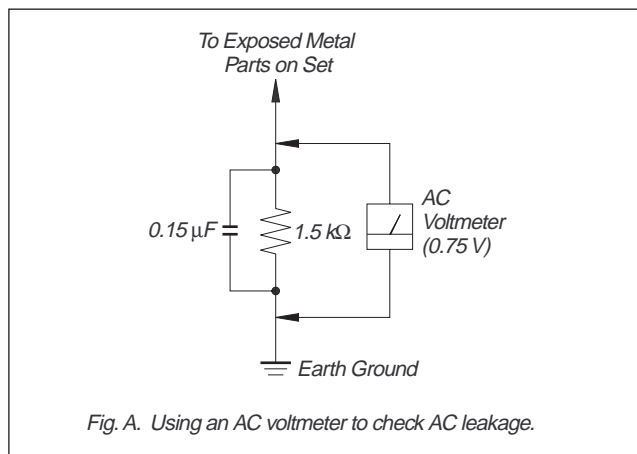
## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks 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

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 2V AC range are suitable. (See Fig. A)



#### SAFETY-RELATED COMPONENT WARNING!!

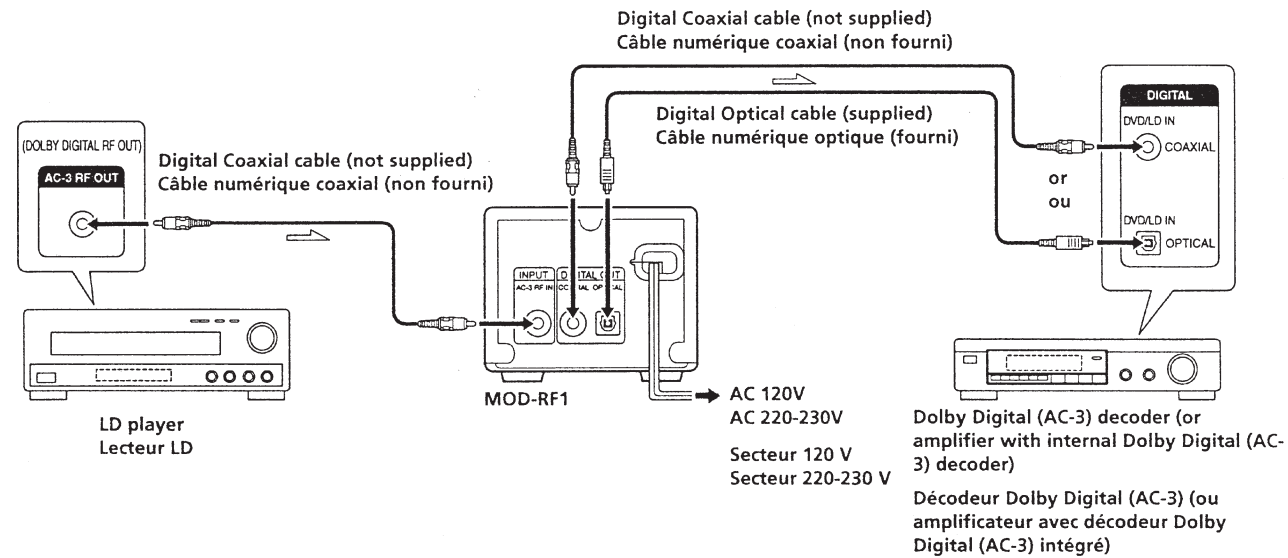
COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\triangle$  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

**Hooking Up**

This unit converts Dolby\* Digital (AC-3) RF signals from an LD player (etc.) to optical and coaxial digital signals that can be output to the optical or coaxial input jacks on a Dolby Digital (AC-3) decoder.



Use either a Digital Coaxial or Digital Optical cable to connect this unit to a Dolby Digital (AC-3) decoder (or amplifier with internal Dolby Digital (AC-3) decoder). Digital signals are output from both (COAXIAL and OPTICAL) DIGITAL OUT jacks simultaneously.

**Notes**

- Be sure to remove the cap from the optical jack before making any connections using digital optical cables. Store the cap in a safe place. When not using the optical terminal, replace the cap to keep dust and other foreign particles out of the optical jack.
- When making connections to a Sony receiver or amplifier equipped with 2 digital inputs as shown below, the Sony receiver or amplifier may not operate correctly when the input mode is set to "AUTO". When making connections as shown below, be sure to set the input mode manually.

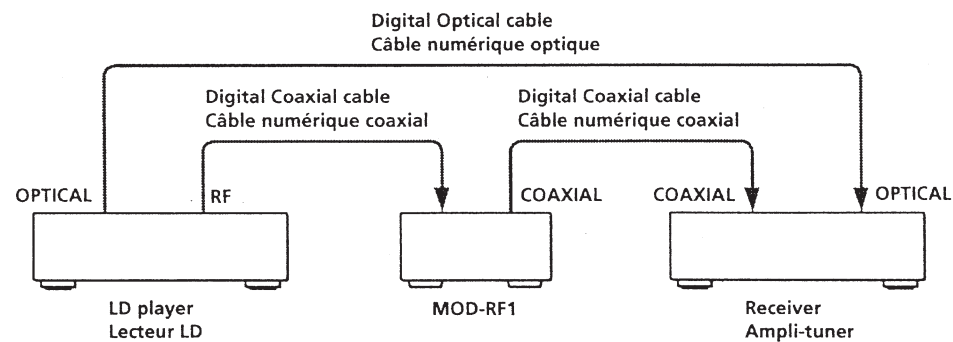
**Raccordement**


Cet appareil convertit les signaux RF Dolby\* Digital (AC-3) d'un lecteur LD (etc.) en signaux numériques optiques et coaxiaux qui peuvent être transmis aux prises d'entrée optiques ou coaxiales d'un décodeur Dolby Digital (AC-3).


Utilisez un câble numérique coaxial ou un câble numérique optique pour relier cet appareil à un décodeur Dolby Digital (AC-3) (ou à un amplificateur intégrant un décodeur Dolby Digital (AC-3)). Les signaux numériques sont fournis simultanément par les deux prises DIGITAL OUT (COAXIAL et OPTICAL).

**Remarques**

- Enlevez le capuchon de la prise optique avant de raccorder le câble numérique optique et rangez-le en lieu sûr. Quand vous n'utilisez pas cette prise, remettez le capuchon en place pour que la poussière ou d'autre particule ne rentre pas dans la prise.
- Lorsque vous raccordez un ampli-tuner ou un amplificateur Sony équipé de 2 entrées numériques, comme indiqué ci-dessous, l'ampli-tuner ou l'amplificateur Sony pourra ne pas fonctionner correctement si le mode d'entrée est réglé sur "AUTO". Si vous effectuez les liaisons suivantes, veillez à régler le mode d'entrée manuellement.



\* DOLBY, the double-D symbol , "PRO LOGIC," and Dolby Digital (AC-3) are trademarks of Dolby Laboratories Licensing Corporation.




\* DOLBY, le symbole double-D , "PRO LOGIC," et Dolby Digital (AC-3) sont des marques de Dolby Laboratories Licensing Corporation.

**THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.**

(In addition to this necessary note is printed in each block.)

**For schematic diagrams.**

**Note:**





- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{pF}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}W$  or less unless otherwise specified.
- % : indicates tolerance.
-  : nonflammable resistor.
-  : fusible resistor.
-  : panel designation.

**Note:**

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




**Note:**

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

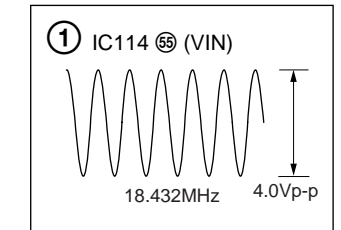
-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions. No mark : POWER ON
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
-  : DIGITAL OUT
- Abbreviation CND : Canadian

**For printed wiring boards.**

**Note:**

-  : parts extracted from the component side.
-  : Through hole.
-  : Pattern from the side which enables seeing.

**•Waveform**

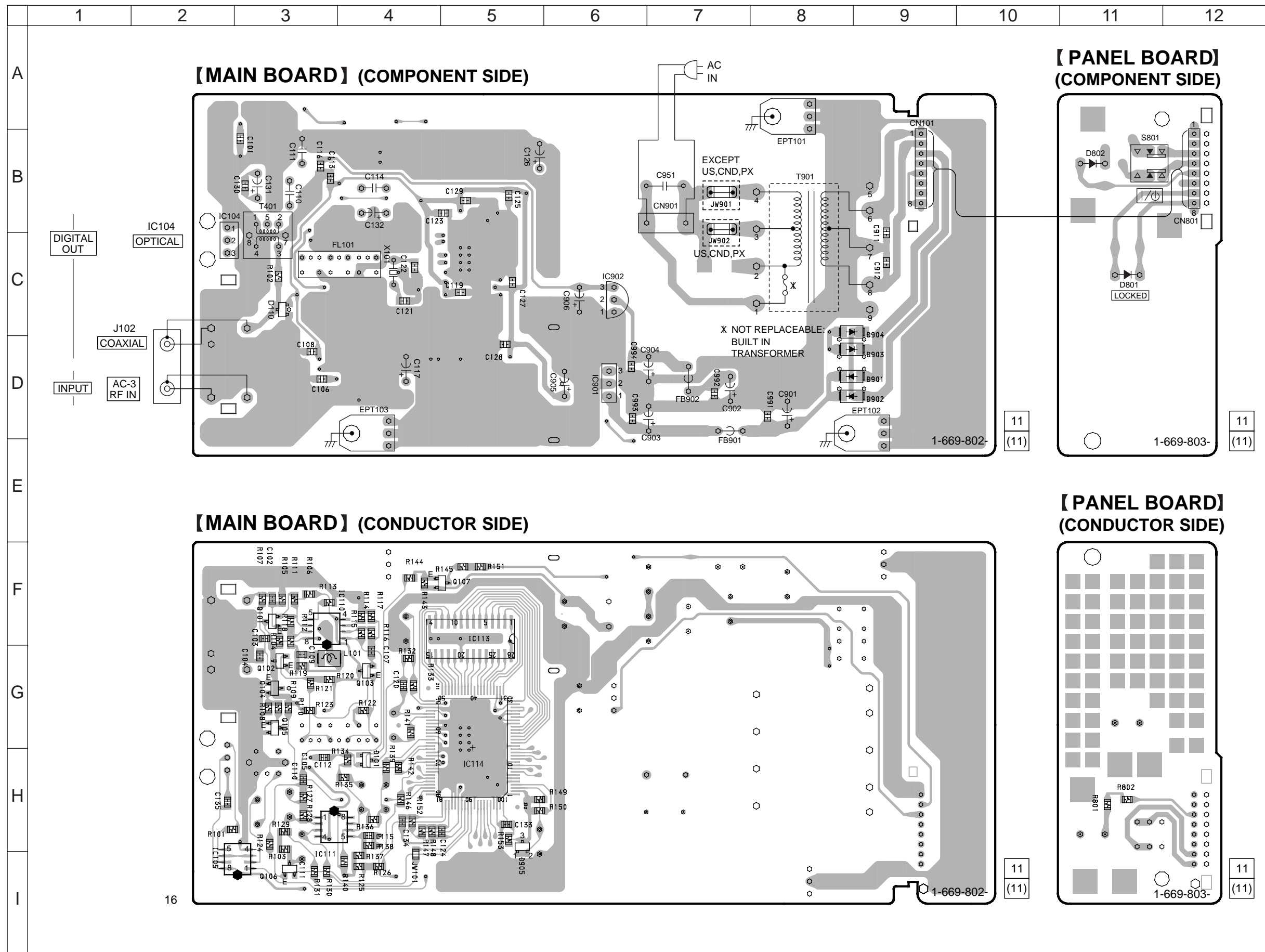


MOD-RF1

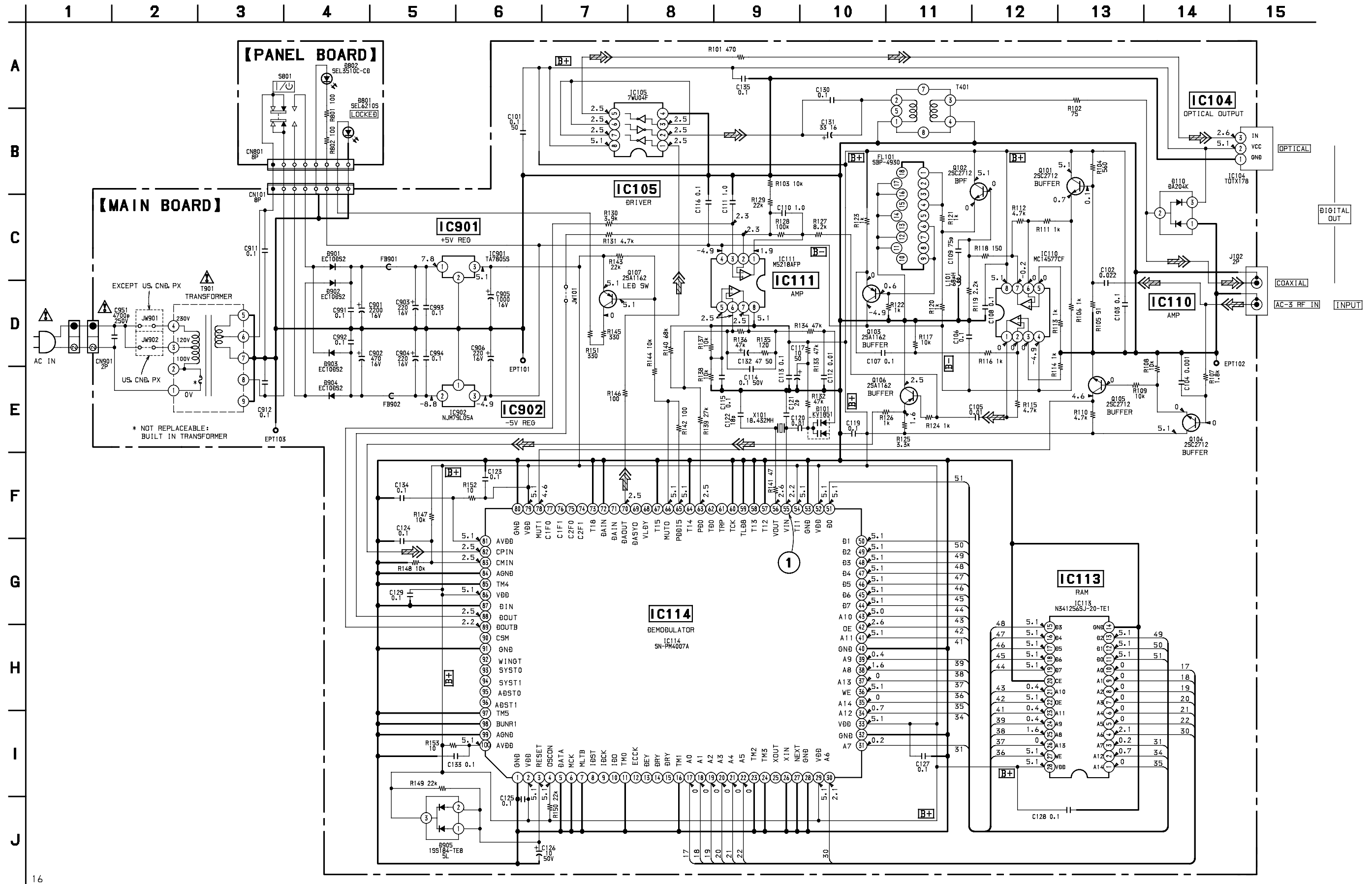
2-1. PRINTED WIRING BOARD

• Semiconductor Location

Ref. No.	Location
D101	H-4
D110	C-3
D801	C-11
D802	B-11
D901	D-9
D902	D-9
D903	D-9
D904	D-9
D905	H-5
IC104	C-2
IC105	I-2
IC110	F-3
IC111	H-3
IC113	F-5
IC114	G-5
IC901	D-6
IC902	C-6
Q101	F-3
Q102	G-3
Q103	G-4
Q104	G-3
Q105	G-3
Q106	I-3
Q107	F-5



2-2. SCHEMATIC DIAGRAM • See page 4 for Waveforms. • See page 9 for IC Pin Function.



## 2-3. IC PIN FUNCTION DESCRIPTION

IC114 SN-PM4007A

Pin No.	Pin Name	I/O	Description
1	GND	—	GND. (0 V)
2	VDD	—	Power supply. (+5 V)
3	RESET	I	System reset. L: reset
4	OSCON	I	Oscillation control. H: ON to oscillate. Normally H, Standby mode: L
5	DATA	I	IC test pin. Normally connected to GND (or no connection)
6	MCK	I	IC test pin. Normally connected to GND (or no connection)
7	MLTB	I	IC test pin. Normally connected to GND (or no connection)
8 to 10	NC	—	Not used.
11	TM0	I	IC test pin. Normally connected to GND (or no connection)
12 to 15	NC	—	Not used.
16	TM1	I	IC test pin. Normally connected to GND (or no connection)
17	A0	O	External RAM address output. Address 0 (LSB)
18	A1	O	External RAM address output. Address 1
19	A2	O	External RAM address output. Address 2
20	A3	O	External RAM address output. Address 3
21	A4	O	External RAM address output. Address 4
22	A5	O	External RAM address output. Address 5
23	TM2	I	IC test pin. Normally connected to GND (or no connection)
24	TM3	I	IC test pin. Normally connected to GND (or no connection)
25	NC	—	Not used.
26	XIN	I	IC test pin. Normally connected to GND (or no connection)
27	NEXT	I	IC test pin. Normally connected to GND (or no connection)
28	GND	—	GND (0 V)
29	VDD	—	Power supply (+5 V)
30	A6	O	External RAM address output. Address 6
31	A7	O	External RAM address output. Address 7
32	GND	—	GND (0V)
33	VDD	—	Power supply (+5 V)
34	A12	O	External RAM address output. Address 12
35	A14	O	External RAM address output. Address 14 (MSB)
36	WE	O	External RAM write enable signal L: active
37	A13	O	External RAM address output. Address 13
38	A8	O	External RAM address output. Address 8
39	A9	O	External RAM address output. Address 9
40	GND	—	GND (0 V)
41	A11	O	External RAM address output. Address 11
42	OE	O	External RAM write enable signal L: active
43	A10	O	External RAM address output. Address 10
44	DB7	I/O	External RAM data terminal. Data bus 7
45	DB6	I/O	External RAM data terminal. Data bus 6
46	DB5	I/O	External RAM data terminal. Data bus 5
47	DB4	I/O	External RAM data terminal. Data bus 4
48	DB3	I/O	External RAM data terminal. Data bus 3
49	DB2	I/O	External RAM data terminal. Data bus 2
50	DB1	I/O	External RAM data terminal. Data bus 1

Pin No.	Pin Name	I/O	Description
51	DB0	I/O	External RAM data terminal. Data bus 0
52	VDD	—	Power supply (+5 V)
53	GND	—	GND (0 V)
54	TI1	I	For IC test Normally connected to VDD
55	VIN	I	VCXO input
56	VOUT	O	VCXO output
57	T12	I	IC test pin. Normally connected to GND (or no connection)
58	T13	I	IC test pin. Normally connected to GND (or no connection)
59	TLDB	I	IC test pin. Normally connected to GND (or no connection)
60	TCK	I	IC test pin. Normally connected to GND (or no connection)
61, 62	NC	—	Not used.
63	PDO	O	Phase comparator output. (3-state)
64	T14	I	IC test pin. Normally connected to GND (or no connection)
65	PDDIS	I	IC test pin. Normally connected to GND (or no connection)
66	MUTO	O	Muting output. H: mute
67	T15	I	IC test pin. Normally connected to GND (or no connection)
68, 69	NC	—	Not used.
70	DAOUT	O	DIGITAL OUT output (serial data stream output)
71	NC	—	Not used.
72	DASEL	I	DIGITAL OUT selection
73	T18	I	IC test pin. Normally connected to GND (or no connection)
74 to 77	NC	—	Not used.
78	MUTI	I	Muting input H: mute
79	VDD	—	Power supply (+5 V)
80	GND	—	GND (0 V)
81	AVDD	—	Power supply for analog comparator (+5 V)
82	CPIN	I	Analog comparator input. Positive side (non-inverted side : OPSK input)
83	CMIN	I	Analog comparator input. Negative side (inverted side)
84	AGND	—	GND for Analog comparator (0 V)
85	TM4	I	IC test pin. Normally connected to GND (or no connection)
86	VDD	—	Power supply (+5 V)
87	DIN	I	IC test pin. Normally connected to GND (or no connection)
88	DOUT	O	Analog comparator output
89	DOUTB	O	Analog comparator output. Inverted output
90	NC	—	Not used.
91	GND	—	GND ( 0 V)
92 to 96	NC	—	Not used.
97	TM5	I	IC test pin. Normally connected to GND (or no connection)
98	BUNRI	I	IC test pin. Normally connected to GND (or no connection)
99	AGND	—	GND for 46.08 MHz oscillator. (0 V)
100	AVDD	—	Power supply for 46.08 MHz oscillator. (+5 V)

## SECTION 3 EXPLODED VIEWS

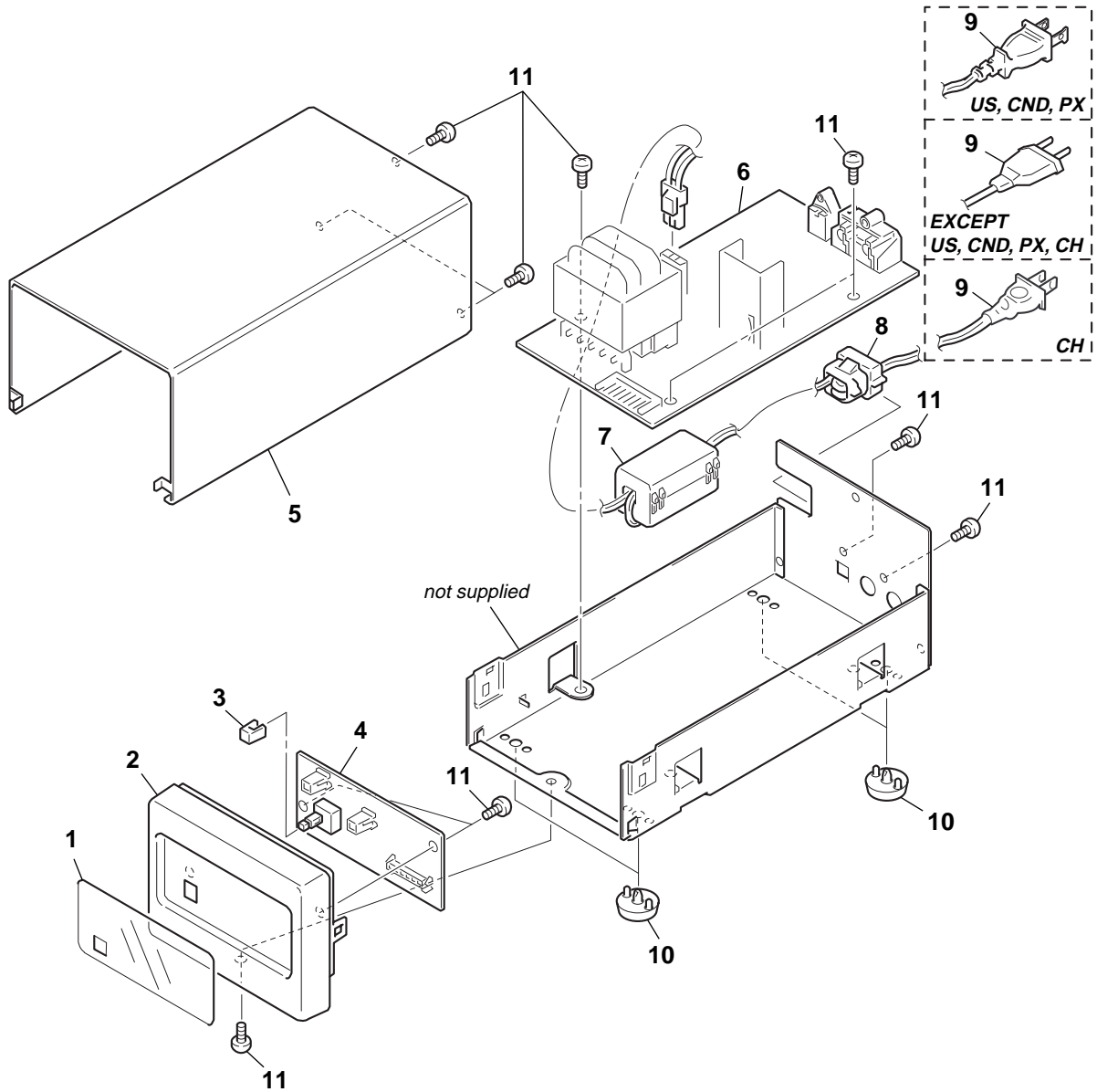
**NOTE:**

- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation  
CND : Canadian  
CH : Chinese
- The mechanical parts with no reference number in the exploded views are not supplied.

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

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

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



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* 1	4-900-317-01	PLATE (F), INDICATION		* 8	3-703-244-00	BUSHING (2104), CORD (EXCEPT US, CND, PX)	
2	4-991-632-11	PANEL, FRONT		8	3-703-571-11	BUSHING (S) (4516), CORD (US, CND, PX)	
3	3-380-952-21	BUTTON		$\Delta$ 9	1-558-945-21	CORD, POWER (POLAR. SPT-1) (US, CND, PX)	
* 4	1-669-803-11	PANEL BOARD		$\Delta$ 9	1-575-651-21	CORD, POWER (EXCEPT US, CND, PX, CH)	
* 5	4-900-315-01	CASE (8565165)		$\Delta$ 9	1-782-510-11	CORD, POWER (CH)	
* 6	A-4407-981-A	MAIN BOARD, COMPLETE		10	4-965-822-01	FOOT	
7	1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE)		11	7-685-646-79	SCREW +BVTP 3 x 8 TYPE2 IT-3	

## SECTION 4 ELECTRICAL PARTS LIST

**NOTE:**

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

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

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

- Abbreviation
- CND : Canadian      EE : East European
- AUS : Australian    EA : Saudi Arabia
- G : German          MY : Malaysia
- SP : Singapore     CH : Chinese

- 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.
- CAPACITORS:  
uF:  $\mu$ F
- RESISTORS  
All resistors are in ohms.  
METAL: metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F: nonflammable
- COILS  
uH:  $\mu$ H
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...:  $\mu$ A..., uPA...,  $\mu$ PA...,  
uPB...,  $\mu$ PB..., uPC...,  $\mu$ PC...,  
uPD...,  $\mu$ PD...

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
*	A-4407-981-A	MAIN BOARD, COMPLETE *****		C911	1-165-319-11	CERAMIC CHIP 0.1uF	50V
	7-685-646-79	SCREW +BVTP 3 x 8 TYPE2 IT-3  < CAPACITOR >		C912	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C101	1-165-319-11	CERAMIC CHIP 0.1uF	50V	$\Delta$ C951	1-113-924-11	CERAMIC 0.0047uF 20%	250V
C102	1-163-037-11	CERAMIC CHIP 0.022uF 10%	25V	C991	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C103	1-165-319-11	CERAMIC CHIP 0.1uF	50V	C992	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C104	1-163-275-11	CERAMIC CHIP 0.001uF 5%	50V			< CONNECTOR >	
C105	1-163-021-91	CERAMIC CHIP 0.01uF 10%	50V	* CN101	1-770-392-11	PIN, CONNECTOR (PC BOARD) 8P	
C106	1-165-319-11	CERAMIC CHIP 0.1uF	50V	CN901	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P	
C107	1-165-319-11	CERAMIC CHIP 0.1uF	50V			< DIODE >	
C108	1-165-319-11	CERAMIC CHIP 0.1uF	50V	D101	8-719-061-62	DIODE KV1851	
C109	1-163-248-11	CERAMIC CHIP 75PF 5%	50V	D110	8-719-914-42	DIODE DA204K	
C110	1-136-921-11	FILM 1uF 5%	50V	D901	8-719-210-33	DIODE EC10DS2	
C111	1-136-921-11	FILM 1uF 5%	50V	D902	8-719-210-33	DIODE EC10DS2	
C112	1-163-021-91	CERAMIC CHIP 0.01uF 10%	50V	D903	8-719-210-33	DIODE EC10DS2	
C113	1-165-319-11	CERAMIC CHIP 0.1uF	50V	D904	8-719-210-33	DIODE EC10DS2	
C114	1-136-165-00	FILM 0.1uF 5%	50V	D905	8-719-801-78	DIODE 1SS184	
C115	1-165-319-11	CERAMIC CHIP 0.1uF	50V			< EARTH >	
C116	1-165-319-11	CERAMIC CHIP 0.1uF	50V	EPT101	1-537-770-21	TERMINAL BOARD, GROUND	
C117	1-126-964-11	ELECT 10uF 20%	50V	EPT102	1-537-770-21	TERMINAL BOARD, GROUND	
C119	1-165-319-11	CERAMIC CHIP 0.1uF	50V	EPT103	1-537-770-21	TERMINAL BOARD, GROUND	
C120	1-163-021-91	CERAMIC CHIP 0.01uF 10%	50V			< FERRITE BEAD >	
C121	1-163-085-00	CERAMIC CHIP 2PF	50V	FB901	1-410-397-21	FERRITE BEAD INDUCTOR	
C122	1-163-099-00	CERAMIC CHIP 18PF 5%	50V	FB902	1-410-397-21	FERRITE BEAD INDUCTOR	
C123	1-165-319-11	CERAMIC CHIP 0.1uF	50V			< FILTER >	
C124	1-165-319-11	CERAMIC CHIP 0.1uF	50V	FL101	1-233-866-11	FILTER, BAND PASS	
C125	1-165-319-11	CERAMIC CHIP 0.1uF	50V			< IC >	
C126	1-126-964-11	ELECT 10uF 20%	50V	IC104	8-749-923-04	IC TOTX178 (OPTICAL)	
C127	1-165-319-11	CERAMIC CHIP 0.1uF	50V	IC105	8-759-242-70	IC TC7WU04F	
C128	1-165-319-11	CERAMIC CHIP 0.1uF	50V	IC110	8-759-262-03	IC MC14577CF	
C129	1-165-319-11	CERAMIC CHIP 0.1uF	50V	IC111	8-759-636-55	IC M5218AFP	
C130	1-165-319-11	CERAMIC CHIP 0.1uF	50V	IC113	8-759-476-29	IC N341256SJ-20-TE1	
C131	1-126-966-11	ELECT 33uF 20%	16V	IC114	8-759-463-68	IC SN-PM4007A	
C132	1-126-967-11	ELECT 47uF 20%	50V	IC901	8-759-231-53	IC TA7805S	
C133	1-165-319-11	CERAMIC CHIP 0.1uF	50V	IC902	8-759-700-65	IC NJM79L05A	
C134	1-165-319-11	CERAMIC CHIP 0.1uF	50V				
C135	1-165-319-11	CERAMIC CHIP 0.1uF	50V				
C901	1-126-768-11	ELECT 2200uF 20%	16V				
C902	1-126-935-11	ELECT 470uF 20%	16V				
C903	1-126-934-11	ELECT 220uF 20%	16V				
C904	1-126-934-11	ELECT 220uF 20%	16V				
C905	1-126-767-11	ELECT 1000uF 20%	16V				
C906	1-126-934-11	ELECT 220uF 20%	16V				



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< JACK >					
J102	1-784-902-11	JACK, PIN 2P (AC-3RF IN/COAXIAL)		R136	1-216-089-91	RES, CHIP 47K 5%	1/10W
		< JUMPER RESISTOR >		R137	1-216-073-00	METAL CHIP 10K 5%	1/10W
JW101	1-216-295-91	SHORT 0		R138	1-216-073-00	METAL CHIP 10K 5%	1/10W
JW901	1-211-950-11	SHORT 0 (EXCEPT US, CND, PX)		R139	1-216-083-00	METAL CHIP 27K 5%	1/10W
JW902	1-211-950-11	SHORT 0 (US, CND, PX)		R140	1-216-093-00	METAL CHIP 68K 5%	1/10W
		< COIL >		R141	1-216-017-91	RES, CHIP 47 5%	1/10W
L101	1-410-391-11	INDUCTOR CHIP 68uH		R142	1-216-025-91	RES, CHIP 100 5%	1/10W
		< TRANSISTOR >		R143	1-216-081-00	METAL CHIP 22K 5%	1/10W
Q101	8-729-230-49	TRANSISTOR 2SC2712-YG		R144	1-216-073-00	METAL CHIP 10K 5%	1/10W
Q102	8-729-230-49	TRANSISTOR 2SC2712-YG		R145	1-216-037-00	METAL CHIP 330 5%	1/10W
Q103	8-729-216-22	TRANSISTOR 2SA1162-G		R146	1-216-025-91	RES, CHIP 100 5%	1/10W
Q104	8-729-230-49	TRANSISTOR 2SC2712-YG		R147	1-216-073-00	METAL CHIP 10K 5%	1/10W
Q105	8-729-230-49	TRANSISTOR 2SC2712-YG		R148	1-216-073-00	METAL CHIP 10K 5%	1/10W
Q106	8-729-216-22	TRANSISTOR 2SA1162-G		R149	1-216-081-00	METAL CHIP 22K 5%	1/10W
Q107	8-729-216-22	TRANSISTOR 2SA1162-G		R150	1-216-081-00	METAL CHIP 22K 5%	1/10W
		< RESISTOR >		R151	1-216-037-00	METAL CHIP 330 5%	1/10W
R101	1-216-041-00	METAL CHIP 470 5%	1/10W	R152	1-216-001-00	METAL CHIP 10 5%	1/10W
R102	1-216-022-00	METAL CHIP 75 5%	1/10W	R153	1-216-001-00	METAL CHIP 10 5%	1/10W
R103	1-216-073-00	METAL CHIP 10K 5%	1/10W			< TRANSFORMER >	
R104	1-216-043-91	RES, CHIP 560 5%	1/10W	T401	1-421-946-11	TRANSFORMER, PULSE	
R105	1-216-024-00	RES, CHIP 91 5%	1/10W	△ T901	1-431-874-11	TRANSFORMER, POWER	
R106	1-216-049-91	RES, CHIP 1K 5%	1/10W			< VIBRATOR >	
R107	1-216-055-00	METAL CHIP 1.8K 5%	1/10W	X101	1-767-434-21	VIBRATOR, CRYSTAL (18.432MHz)	
R108	1-216-073-00	METAL CHIP 10K 5%	1/10W	*****			
R109	1-216-073-00	METAL CHIP 10K 5%	1/10W	*	1-669-803-11	PANEL BOARD	
R110	1-216-065-91	RES, CHIP 4.7K 5%	1/10W	*****			
R111	1-216-049-91	RES, CHIP 1K 5%	1/10W			< CONNECTOR >	
R112	1-216-065-91	RES, CHIP 4.7K 5%	1/10W	CN801	1-770-401-11	HOUSING, CONNECTOR (PC BOARD) 8P	
R113	1-216-049-91	RES, CHIP 1K 5%	1/10W			< DIODE >	
R114	1-216-049-91	RES, CHIP 1K 5%	1/10W	D801	8-719-313-48	DIODE SEL6210S-TH12 (LOCKED)	
R115	1-216-065-91	RES, CHIP 4.7K 5%	1/10W	D802	8-719-018-46	DIODE SEL3510C-CD	
R116	1-216-049-91	RES, CHIP 1K 5%	1/10W			< RESISTOR >	
R117	1-216-073-00	METAL CHIP 10K 5%	1/10W	R801	1-216-025-91	RES, CHIP 100 5%	1/10W
R118	1-216-029-00	METAL CHIP 150 5%	1/10W	R802	1-216-025-91	RES, CHIP 100 5%	1/10W
R119	1-216-057-00	METAL CHIP 2.2K 5%	1/10W			< SWITCH >	
R120	1-216-049-91	RES, CHIP 1K 5%	1/10W	S801	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)	
R121	1-216-049-91	RES, CHIP 1K 5%	1/10W	*****			
R122	1-216-049-91	RES, CHIP 1K 5%	1/10W			MISCELLANEOUS	
R123	1-216-049-91	RES, CHIP 1K 5%	1/10W	*****			
R124	1-216-049-91	RES, CHIP 1K 5%	1/10W	7	1-543-653-11	CORE ASSY, BEAD(DIVISION TYPE)	
R125	1-216-061-00	METAL CHIP 3.3K 5%	1/10W	△ 9	1-558-945-21	CORD, POWER (POLAR.SPT-1) (US, CND, PX)	
R126	1-216-049-91	RES, CHIP 1K 5%	1/10W	△ 9	1-575-651-21	CORD, POWER (EXCEPT US, CND, PX, CH)	
R127	1-216-071-00	METAL CHIP 8.2K 5%	1/10W	△ 9	1-782-510-11	CORD, POWER (CH)	
R128	1-216-097-91	RES, CHIP 100K 5%	1/10W	*****			
R129	1-216-081-00	METAL CHIP 22K 5%	1/10W				
R130	1-216-063-91	RES, CHIP 3.9K 5%	1/10W				
R131	1-216-065-91	RES, CHIP 4.7K 5%	1/10W				
R132	1-216-089-91	RES, CHIP 47K 5%	1/10W				
R133	1-216-089-91	RES, CHIP 47K 5%	1/10W				
R134	1-216-089-91	RES, CHIP 47K 5%	1/10W				
R135	1-216-027-00	METAL CHIP 120 5%	1/10W				

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.
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# MOD-RF1

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
		ACCESSORIES & PACKING MATERIALS *****	
	1-574-264-11	CORD, OPTICAL PLUG	
	3-862-543-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH)	
	3-862-543-21	MANUAL, INSTRUCTION (SPANISH/GERMAN) (EXCEPT US, CND, PX, CH)	
	3-862-543-31	MANUAL, INSTRUCTION (DUTCH/SWEDISH) (AEP, EE, E, EA, UK, G, AUS)	
	3-862-543-41	MANUAL, INSTRUCTION (ITALIAN/PORTUGUESE) (AEP, EE, E, EA, UK, G, AUS)	
	3-862-543-51	MANUAL, INSTRUCTION (CHINESE) (SP, MY, CH)	