SRF-M37

SERVICE MANUAL

E Model

Ver 1.0 2003. 03

SPECIFICATIONS

Time display:
24-hour system

Frequency range

Band	SRF-M37	Channel step
FM	87.5-108 MHz	0.1 MHz
AM	530-1 710 kHz	10 kHz
	531-1 710 kHz	9 kHz

Battery Life (Approx. hours) (JEITA*)

When using	FM	AM	MW/LW
Sony alkaline LR 03 (size AAA)	35	52	52
Sony R03 (size AAA)	14	21	21

* Measured by JEITA (Japan Electronics and Information Technology Industries Association) standards. The actual battery life may vary depending on the circumstance of the unit.

Output
🎧 jack (ø 3.5 mm, stereo minijack) load impedance 24 Ω (North American model), 16 Ω (Other models)

Power output
2.8 mW + 2.8 mW (at 10 % harmonic distortion)

Power requirements
1.5 V DC, one R03 (size AAA) battery

Dimensions
Approx. 83 × 63 × 32 mm (w / h / d)
($3\,^3/_8 \times 2\,^1/_2 \times 1\,^5/_{16}$ inches) incl. projecting parts and controls
Approx. 83 × 63 × 25 mm (w / h / d)
($3\,^3/_8 \times 2\,^1/_2 \times 1$ inches) not incl. projecting parts and controls

Mass
Approx. 94 g (3.32 oz.) incl. battery and belt clip.

Accessories Supplied

Stereo headphones (1): North American model
Stereo earphones (1): Other models
Belt Clip (1)

Design and specifications are subject to change without notice.

FM STEREO/AM PLL SYNTHESIZED RADIO

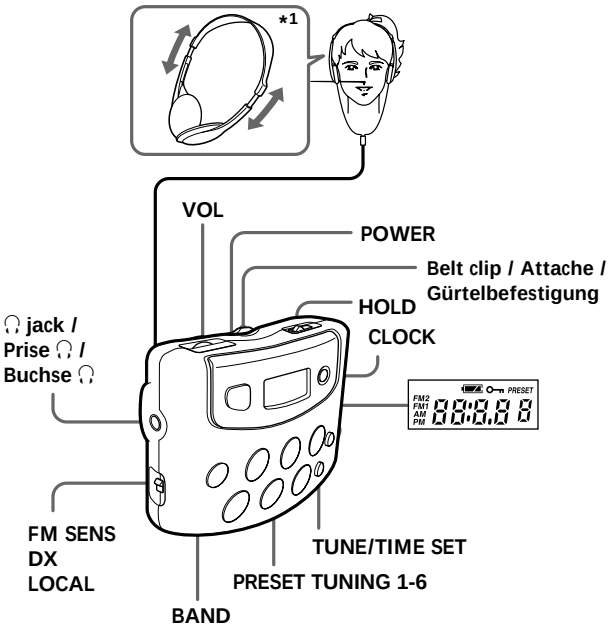
9-877-168-01
2003C167800-1

Sony Corporation
Personal Audio Company
Published by Sony Engineering Corporation

SONY®

SECTION 1
GENERAL

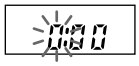
This section is extracted from instruction manual.



Setting the Clock

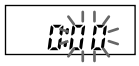
The display will flash “AM 12:00” or “0:00” when the battery is first inserted.

1 Hold down **CLOCK** for more than 2 seconds.
The beep sounds and the hour flashes in the display.



2 Press **TUNE/TIME SET +** or **–** until the correct hour appears in the display.
Each press changes the digit(s) by one.
When you keep the button pressed, the digit(s) change rapidly.

3 Press **CLOCK**.
The beep sounds and the minute starts to flash.
Repeat step 2 to set the minute. After setting the minute, press **CLOCK** again. The two beeps sound and the clock starts from 0 seconds.



The clock system varies depending on the model you own.
12-hour system: “AM 12:00” = midnight
24-hour system: “0:00” = midnight

Notes on chip component replacement

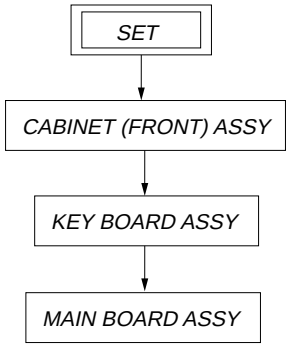
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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.

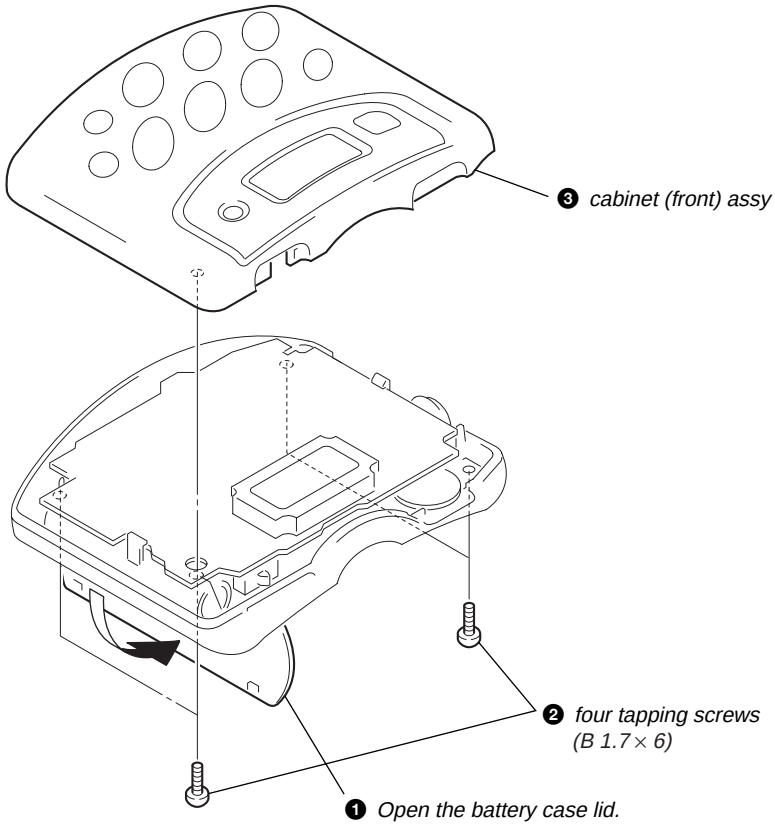
SECTION 2
DISASSEMBLY

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

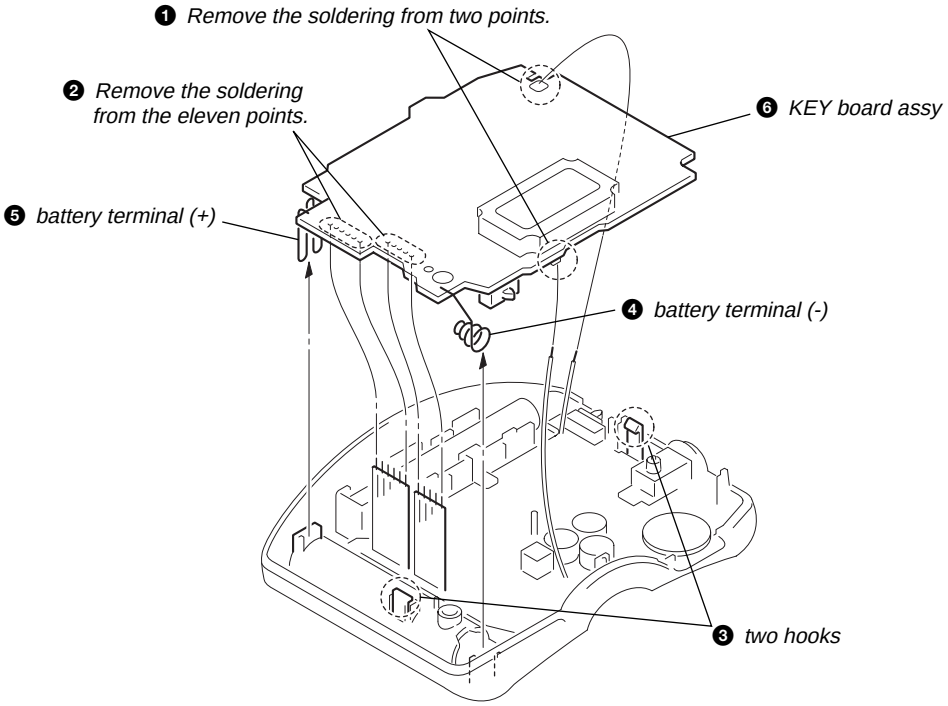


Note : Follow the disassembly procedure in the numerical order given.

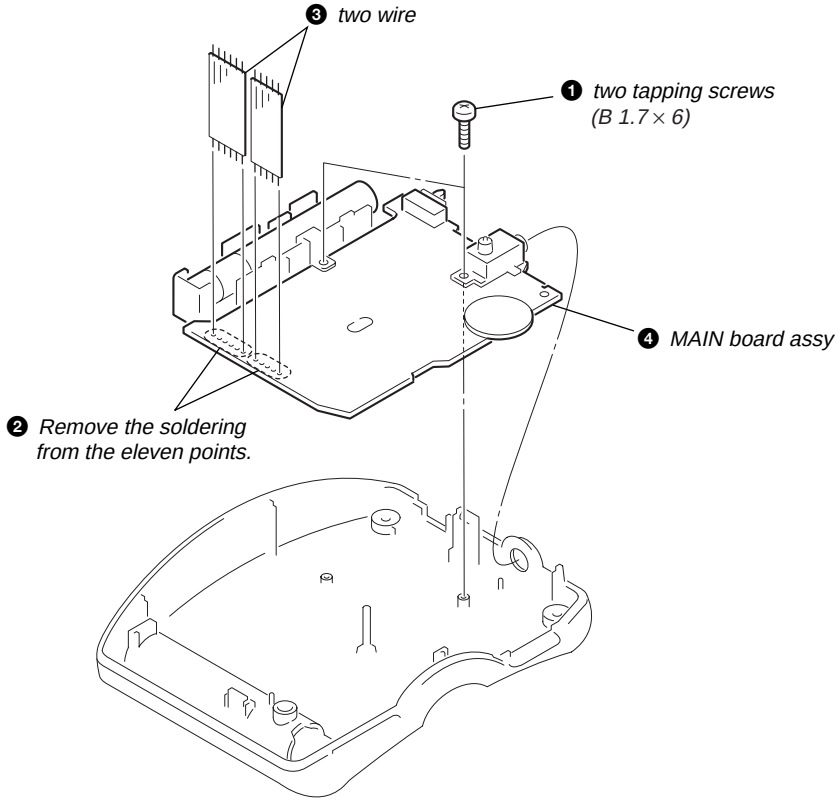
2-1. Cabinet (Front) Assy



2-2. KEY Board Assy



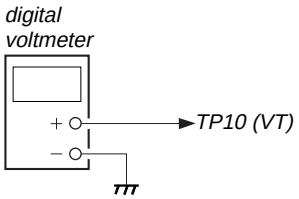
2-3. MAIN Board Assy



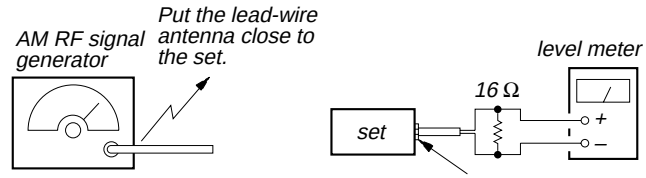
SECTION 3
ADJUSTMENTS

AM Section

Setting:
BAND switch: AM
Connection:
For AM frequency coverage adjustment and FM frequency coverage check.



Connection:



30% amplitude modulation by 400 Hz signal.
Output level: as low as possible

AM FREQUENCY COVERAGE ADJUSTMENT		
Adjust for a reading on digital voltmeter.		
L4	530 kHz	1.3V ± 0.1V
Confirm	1,710 kHz	8.1V ± 0.3V

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
CT2	1480 kHz
L3	590 kHz

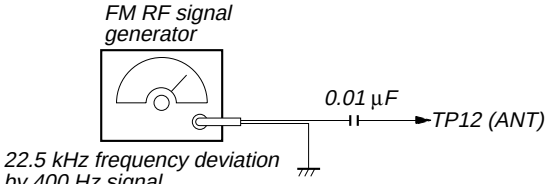
FM FREQUENCY COVERAGE CHECK		
Check a reading on digital voltmeter.		
Confirm	87.5 MHz	6.9V ± 0.3V
Confirm	108.0 MHz	12.1V ± 0.3V

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
CT1	108.0 MHz
L1	87.5 MHz

FM Section

Setting:
BAND switch: FM
FM SENS switch: DX

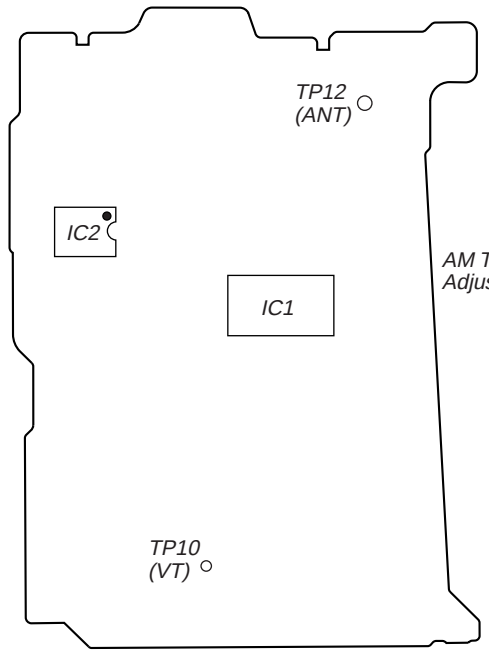
Connection:



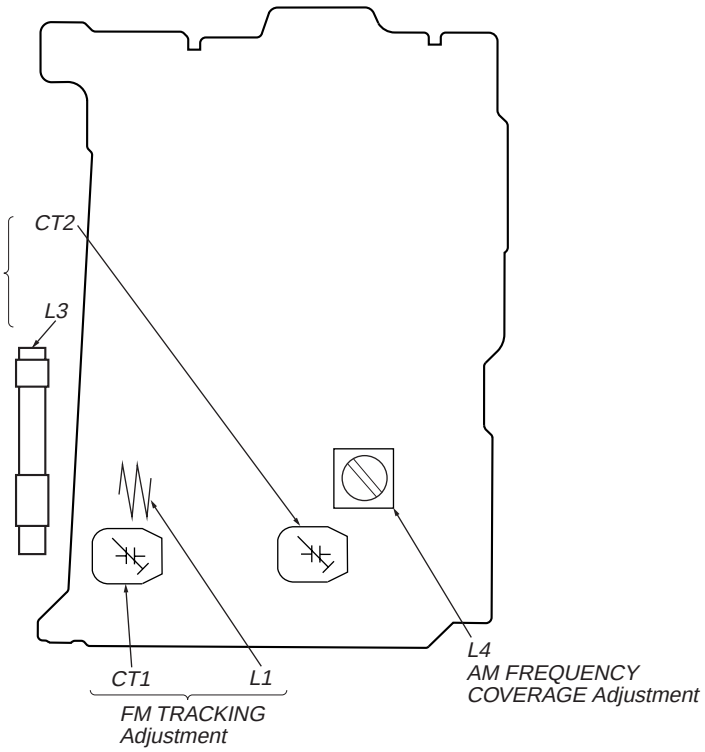
22.5 kHz frequency deviation by 400 Hz signal.
Output level: as low as possible

Adjustment Location

【MAIN】BOARD
(Conductor side)



【MAIN】BOARD
(Component side)



SECTION 4
DIAGRAMS

Note on Schematic Diagram:

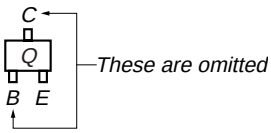
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- ▬ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 1.5 V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  < > : AM
- 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.
  ⇨ : FM
  ➡ : AM

Note on Printed Wiring Board:

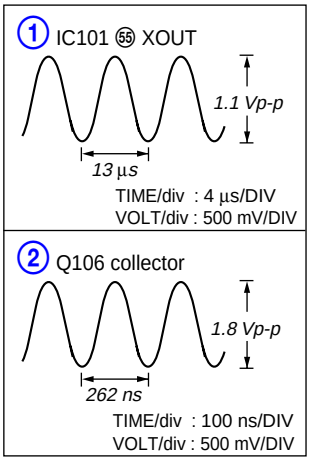
- ——— : parts extracted from the conductor side.
- ▒▒▒ : Pattern from the side which enables seeing.
- ▬ : Carbon pattern.

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

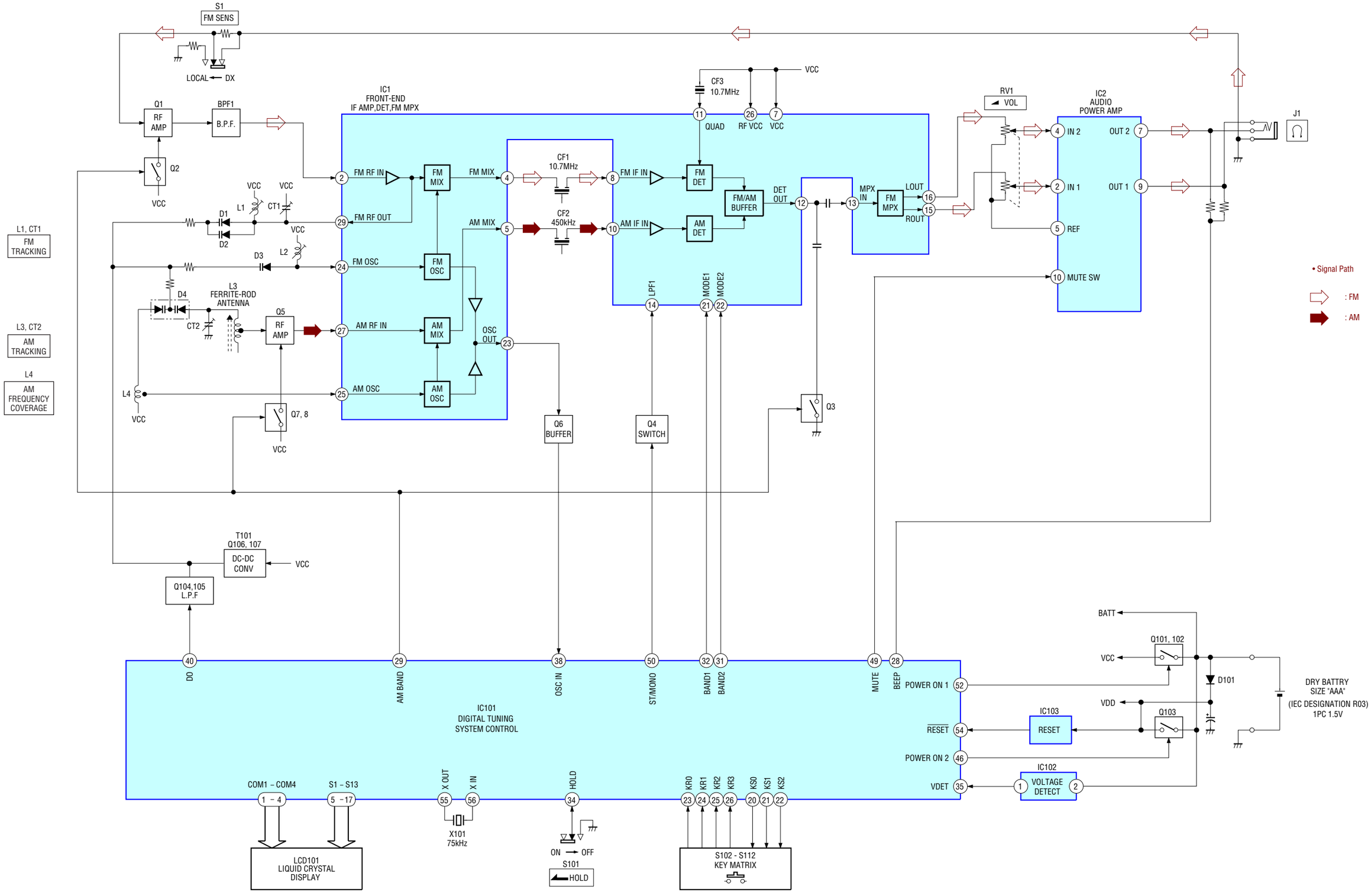
• Indication of transistor



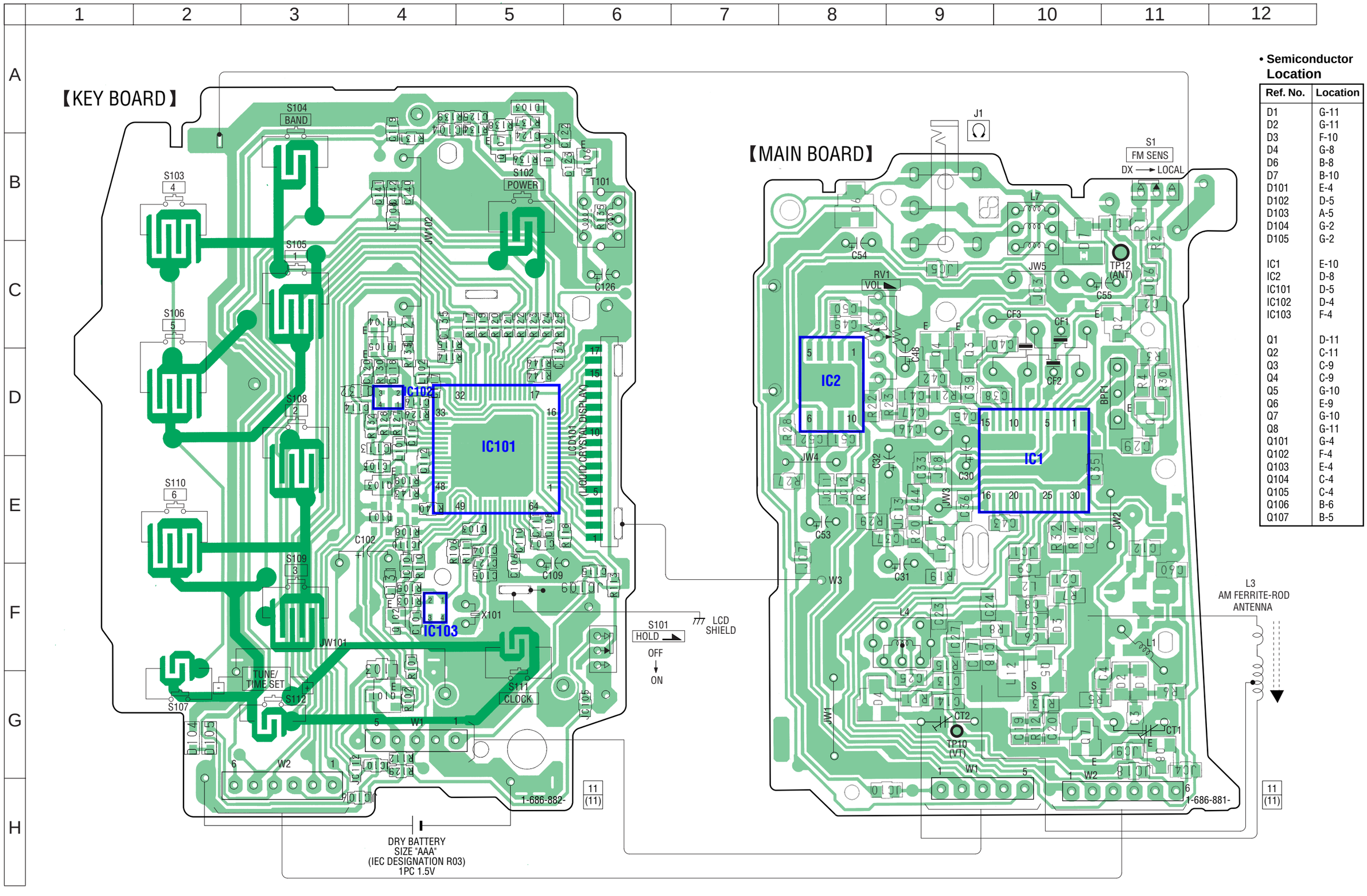
• Waveform



4-1. Block Diagram



4-2. Printed Wiring Boards

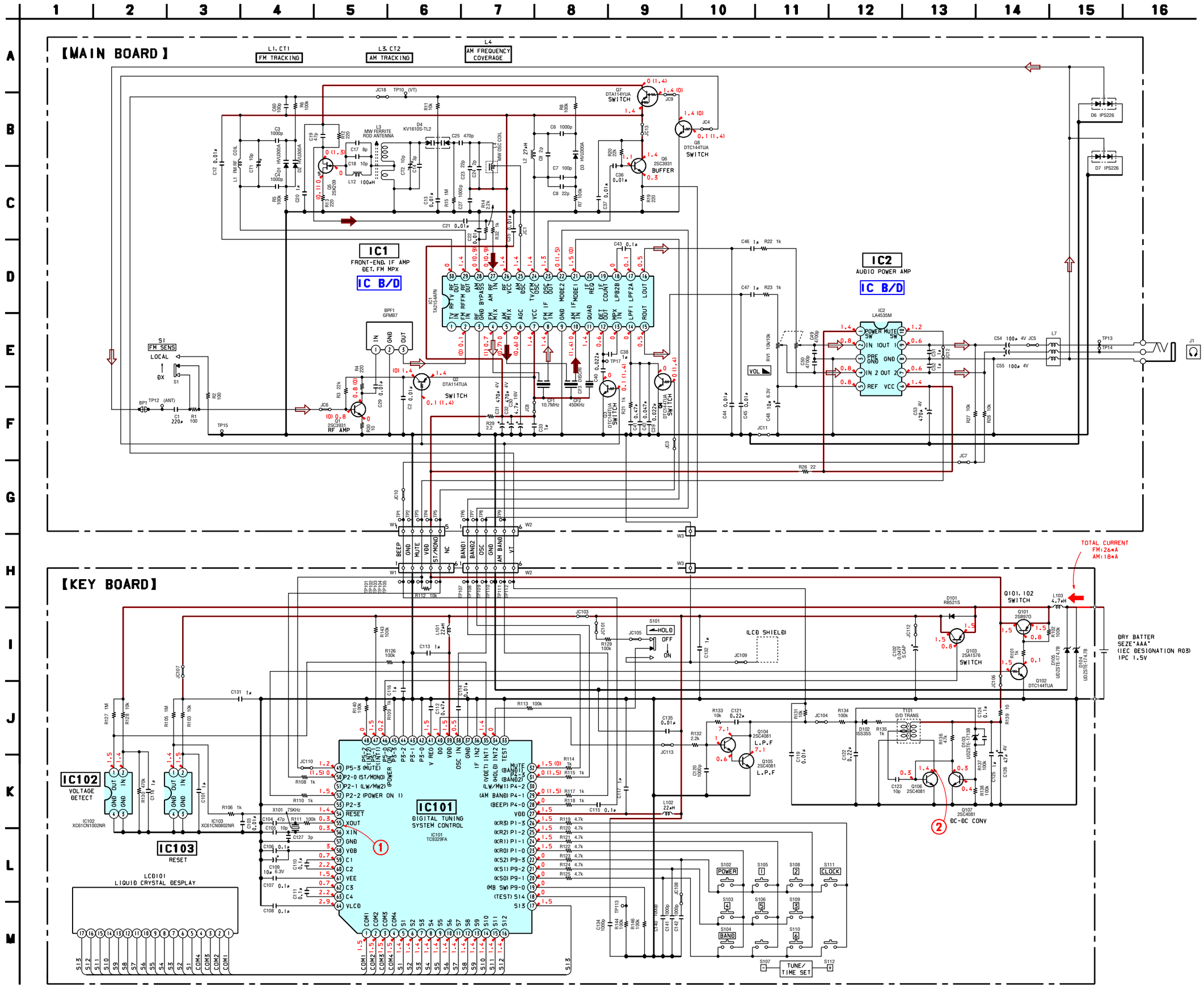


- **Semiconductor Location**

Ref. No.	Location
D1	G-11
D2	G-11
D3	F-10
D4	G-8
D6	B-8
D7	B-10
D101	E-4
D102	D-5
D103	A-5
D104	G-2
D105	G-2
IC1	E-10
IC2	D-8
IC101	D-5
IC102	D-4
IC103	F-4
Q1	D-11
Q2	C-11
Q3	C-9
Q4	C-9
Q5	G-10
Q6	E-9
Q7	G-10
Q8	G-11
Q101	G-4
Q102	F-4
Q103	E-4
Q104	C-4
Q105	C-4
Q106	B-6
Q107	B-5

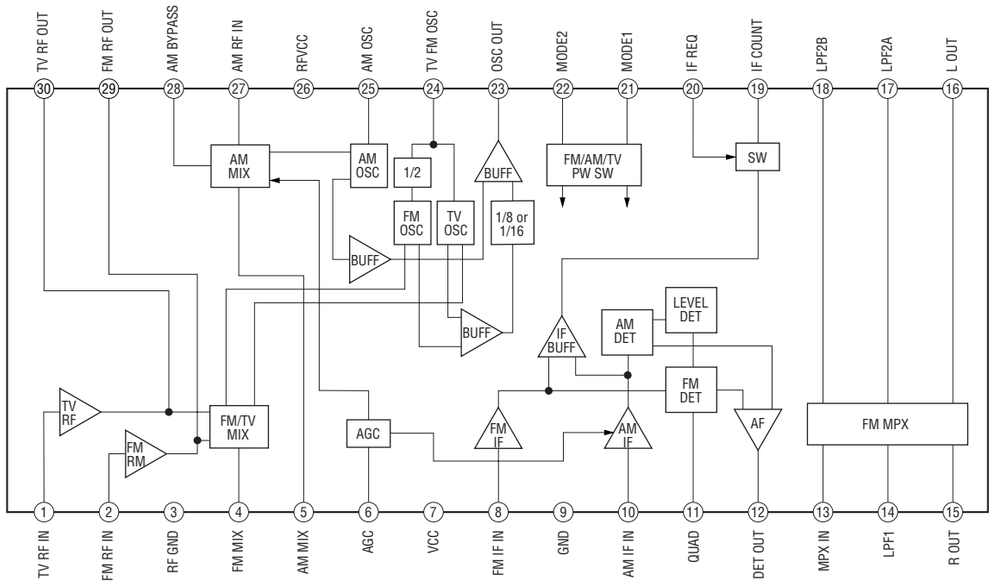
4-3. Schematic Diagram

• See page 6 for Waveforms. • See page 10 for IC Block Diagrams.

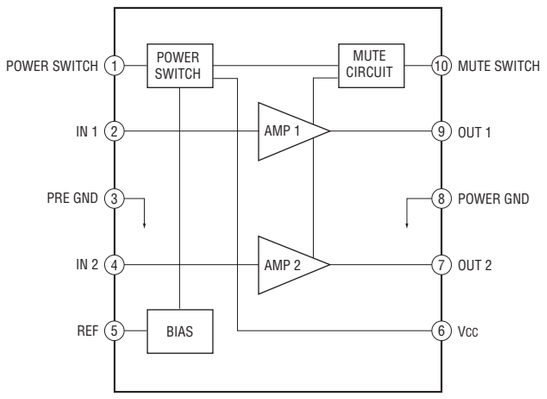


4-4. IC Block Diagrams

IC1 TA2154AFN-EL



IC2 LA4535M-TE-L



4-5. IC Pin Function Description

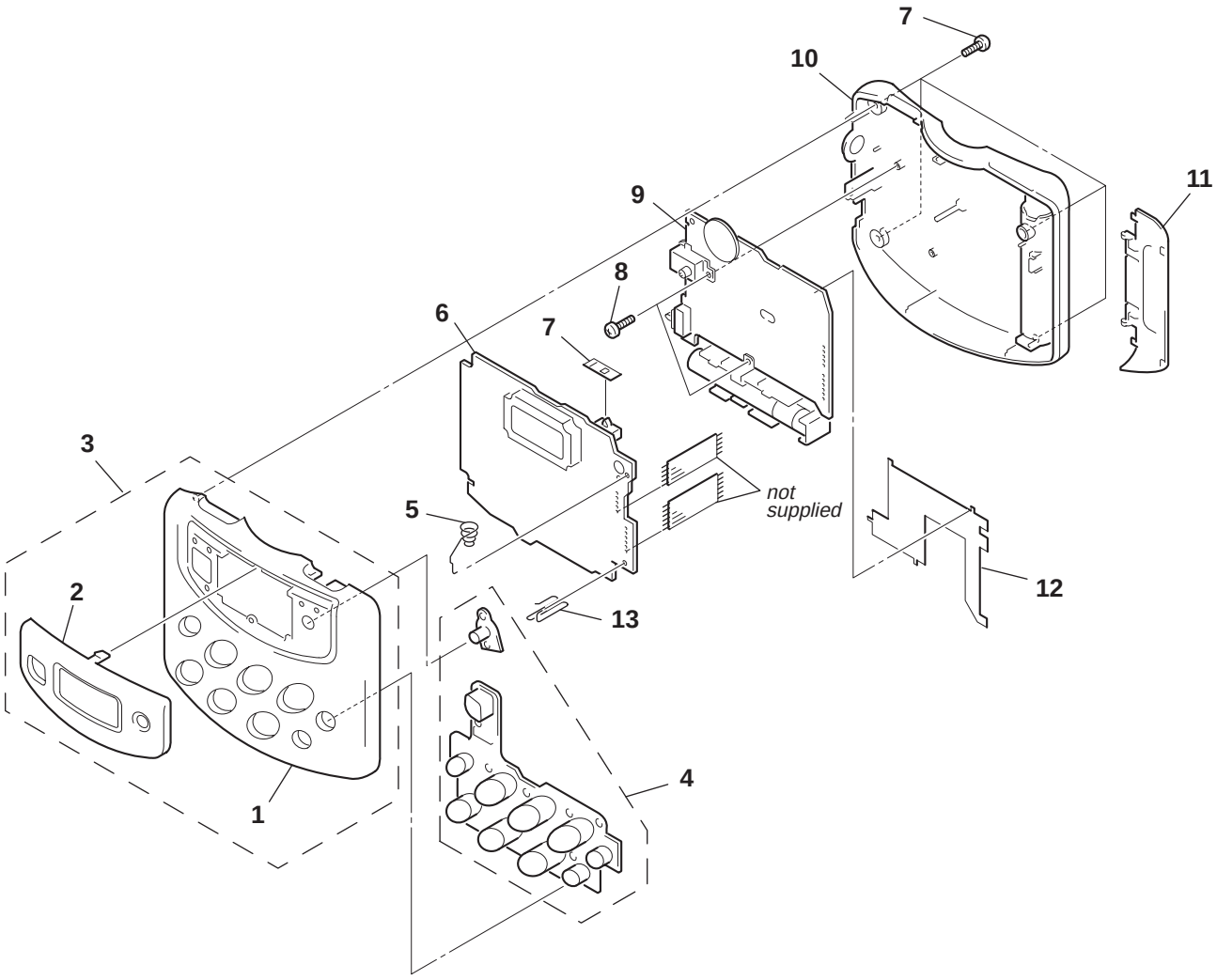
• IC101 TC9329FA-123 (DIGITAL TUNING, SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1 to 4	COM1 to COM4	O	LCD common output
5 to 17	S1 to S13	O	LCD segment output
18	TEST	I	Test mode control signal input (“H” : test mode)
19	MB SW	I	Not used
20 to 22	KS0 to KS2	O	Key source
23 to 26	KR0 to KR3	I	Key return
27	VDD	—	Power supply terminal
28	BEEP	O	Beep signal output
29	AM BAND	O	Band selection signal output (“H” : AM)
30	LW/MW1	O	Not used
31	BAND2	O	Band selection signal output (“L” : FM)
32	BAND1	O	Band selection signal output (“L” : AM)
33	TEST	I	Not used (connected to the ground)
34	HOLD	I	HOLD switch signal input(“L” : hold on)
35	VDET	I	1.0V battery voltage detection signal input (“L” : lower than 1.0V)
36	IF IN2	I	Not used
37	GND	—	Ground terminal
38	OSC IN	I	Programmable counter input terminal
39	VDD	—	Power supply terminal
40	DO	O	Phase comparator output
41	V REG	—	Phase comparator constant voltage supply
42 to 45	P3-0 to P3-3	—	Not used
46	POWER ON 2	O	Power supply control signal output (“L” : radio on)
47, 48	INT1, INT2	I	Destination setting terminal
49	MUTE	O	Muting control signal output (“L” : muting on)
50	ST/MONO	O	Stereo/mono selection signal output
51	LW/MW2	O	Not used
52	POWER ON 1	O	Power supply control signal output (“H” : radio on)
53	P2-3	—	Not used
54	$\overline{\text{RESET}}$	I	Reset signal input (“L” : microcomputer reset)
55	XOUT	O	External crystal resonator terminal (75kHz)
56	XIN	I	External crystal resonator terminal (75kHz)
57	GND	—	Ground terminal
58	VDB	—	Power voltage step-up terminal
59	C1	—	Voltage doubler boosting capacitor terminal
60	C2	—	Voltage doubler boosting capacitor terminal
61	VEE	—	1.5V constant voltage power supply output for LCD drive
62	C3	—	Voltage doubler boosting capacitor terminal
63	C4	—	Voltage doubler boosting capacitor terminal
64	VLCD	—	3.0V constant voltage power supply output for LCD drive

SECTION 5
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences 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.



Ref. No.	Part No.	Description	Remarks
1	3-247-142-11	CABINET (FRONT)	
2	3-247-144-01	PANEL (FRONT)	
3	X-3383-581-1	CABINET(FRONT) ASSY	
4	1-786-468-21	SWITCH, RUBBER KEY (PRESET)	
5	3-247-150-01	TERMINAL (-), BATTERY	
* 6	A-3347-451-A	KEY BOARD, COMPLETE	
7	3-247-153-01	SHEET (HOLD)	
8	3-318-203-11	SCREW (B1.7X6), TAPPING	
* 9	A-3347-447-A	MAIN BOARD, COMPLETE	
10	3-247-143-11	CABINET (REAR)	
11	3-247-145-01	LID, BATTERY CASE	
12	3-250-687-01	SHIELD (B)	
13	3-247-149-01	TERMINAL (+), BATTERY	

KEY

SECTION 6
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.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

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

Ref. No.	Part No.	Description			Remarks
*	A-3347-451-A	KEY BOARD, COMPLETE			
		**********			
	1-694-972-11	CONDUCTIVE BOARD, CONNECTION			
	3-247-146-01	HOLDER (LCD)			
		< CAPACITOR >			
C101	1-115-156-11	CERAMIC CHIP	1uF		10V
C102	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C103	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C104	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C105	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C106	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C107	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C108	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C109	1-126-157-11	ELECT	10uF	20%	16V
C110	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C111	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C112	1-113-619-11	CERAMIC CHIP	0.47uF		10V
C113	1-115-156-11	CERAMIC CHIP	1uF		10V
C114	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C115	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C116	1-115-156-11	CERAMIC CHIP	1uF		10V
C117	1-115-156-11	CERAMIC CHIP	1uF		10V
C118	1-115-156-11	CERAMIC CHIP	1uF		10V
C119	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C120	1-115-416-11	CERAMIC CHIP	0.001uF	5.00%	25V
C121	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C122	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C123	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C124	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C125	1-115-156-11	CERAMIC CHIP	1uF		10V
C126	1-124-589-11	ELECT	47uF	20%	16V
C127	1-162-908-11	CERAMIC CHIP	3PF	0.25PF	50V
C131	1-115-156-11	CERAMIC CHIP	1uF		10V
C132	1-115-156-11	CERAMIC CHIP	1uF		10V
C134	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C135	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C140	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C141	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C142	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< DIODE >			
D101	8-719-071-34	DIODE RB521S-30-TE61			
D102	8-719-988-61	DIODE 1SS355TE-17			
D103	8-719-083-63	DIODE UDZSTE-1713B			
D104	8-719-083-60	DIODE UDZSTE-174.7B			
D105	8-719-083-60	DIODE UDZSTE-174.7B			

Ref. No.	Part No.	Description			Remarks
		< IC >			
IC101	6-802-891-01	IC TC9329FA-123			
IC102	8-759-690-96	IC XC61CN1002NR			
IC103	6-701-978-01	IC XC61CN0802NR			
		< CONDUCTOR >			
JC101	1-216-864-11	METAL CHIP	0	5%	1/16W
JC103	1-216-864-11	METAL CHIP	0	5%	1/16W
JC104	1-216-864-11	METAL CHIP	0	5%	1/16W
JC105	1-216-864-11	METAL CHIP	0	5%	1/16W
JC106	1-216-864-11	METAL CHIP	0	5%	1/16W
JC107	1-216-864-11	METAL CHIP	0	5%	1/16W
JC108	1-216-864-11	METAL CHIP	0	5%	1/16W
JC109	1-216-864-11	METAL CHIP	0	5%	1/16W
JC110	1-216-864-11	METAL CHIP	0	5%	1/16W
JC112	1-216-864-11	METAL CHIP	0	5%	1/16W
JC113	1-216-864-11	METAL CHIP	0	5%	1/16W
		< COIL >			
L101	1-412-995-21	INDUCTOR	22uH		
L102	1-412-995-21	INDUCTOR	22uH		
L103	1-469-845-11	INDUCTOR	4.7uH		
		< LIQUID CRYSTAL DISPLAY >			
LCD101	1-805-123-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< TRANSISTOR >			
Q101	8-729-046-89	TRANSISTOR	2SB970-S(TX).S0		
Q102	8-729-029-15	TRANSISTOR	DTC144TUA-T106		
Q103	8-729-026-52	TRANSISTOR	2SA1576A-T106-R		
Q104	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q105	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q106	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q107	8-729-905-35	TRANSISTOR	2SC4081T106R		
		< RESISTOR >			
R101	1-216-821-11	METAL CHIP	1K	5%	1/16W
R102	1-216-845-11	METAL CHIP	100K	5%	1/16W
R103	1-216-833-11	METAL CHIP	10K	5%	1/16W
R105	1-216-857-11	METAL CHIP	1M	5%	1/16W
R106	1-216-821-11	METAL CHIP	1K	5%	1/16W
R108	1-216-821-11	METAL CHIP	1K	5%	1/16W
R109	1-216-821-11	METAL CHIP	1K	5%	1/16W
R110	1-216-821-11	METAL CHIP	1K	5%	1/16W
R111	1-216-845-11	METAL CHIP	100K	5%	1/16W
R112	1-216-833-11	METAL CHIP	10K	5%	1/16W

Ref. No.	Part No.	Description			Remarks
R113	1-216-845-11	METAL CHIP	100K	5%	1/16W
R114	1-216-821-11	METAL CHIP	1K	5%	1/16W
R115	1-216-821-11	METAL CHIP	1K	5%	1/16W
R117	1-216-821-11	METAL CHIP	1K	5%	1/16W
R118	1-216-821-11	METAL CHIP	1K	5%	1/16W
R119	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R120	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R121	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R122	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R123	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R124	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R125	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R126	1-216-845-11	METAL CHIP	100K	5%	1/16W
R127	1-216-857-11	METAL CHIP	1M	5%	1/16W
R128	1-216-833-11	METAL CHIP	10K	5%	1/16W
R129	1-216-845-11	METAL CHIP	100K	5%	1/16W
R130	1-216-853-11	METAL CHIP	470K	5%	1/16W
R131	1-216-833-11	METAL CHIP	10K	5%	1/16W
R132	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R133	1-216-833-11	METAL CHIP	10K	5%	1/16W
R134	1-216-845-11	METAL CHIP	100K	5%	1/16W
R135	1-216-821-11	METAL CHIP	1K	5%	1/16W
R136	1-216-841-11	METAL CHIP	47K	5%	1/16W
R137	1-216-845-11	METAL CHIP	100K	5%	1/16W
R138	1-216-845-11	METAL CHIP	100K	5%	1/16W
R139	1-216-797-11	METAL CHIP	10	5%	1/16W
R140	1-216-845-11	METAL CHIP	100K	5%	1/16W
R143	1-216-845-11	METAL CHIP	100K	5%	1/16W
R144	1-216-845-11	METAL CHIP	100K	5%	1/16W
R146	1-216-845-11	METAL CHIP	100K	5%	1/16W
		< SWITCH >			
S101	1-771-722-11	SWITCH, SLIDE (HOLD)			
		< TRANFORMER >			
T101	1-439-578-11	TRANSFORMER, DC/DC CONVERTER			
		< VIBRATOR >			
X101	1-767-388-11	VIBRATOR, CRYSTAL (75kHz)			
**********					
*	A-3347-447-A	MAIN BOARD, COMPLETE			
		**********			
	3-247-147-01	HOLDER (ANT)			
	3-247-148-01	HOLDER (H/P)			
		< FILTER >			
BPF1	1-236-711-21	FILTER, BAND PASS			
		< CAPACITOR >			
C1	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C2	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3	1-115-416-11	CERAMIC CHIP	0.001uF	5.00%	25V
C4	1-115-416-11	CERAMIC CHIP	0.001uF	5.00%	25V
C6	1-115-416-11	CERAMIC CHIP	0.001uF	5.00%	25V
C7	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C8	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C9	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V

Ref. No.	Part No.	Description			Remarks
C12	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C13	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C14	1-162-908-11	CERAMIC CHIP	3PF	0.25PF	50V
C17	1-162-913-11	CERAMIC CHIP	8PF	0.50PF	50V
C18	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C19	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C20	1-115-156-11	CERAMIC CHIP	1uF		10V
C21	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C22	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C23	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C24	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V
C25	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C27	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C29	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C30	1-124-259-11	ELECT	4.7uF	20.00%	16V
C31	1-126-518-11	ELECT	470uF	20.00%	4V
C32	1-126-518-11	ELECT	470uF	20.00%	4V
C33	1-115-156-11	CERAMIC CHIP	1uF		10V
C35	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C37	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C38	1-115-156-11	CERAMIC CHIP	1uF		10V
C39	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C40	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C41	1-113-619-11	CERAMIC CHIP	0.47uF		10V
C42	1-165-176-11	CERAMIC CHIP	0.047uF	10.00%	16V
C43	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C44	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C45	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C46	1-115-156-11	CERAMIC CHIP	1uF		10V
C47	1-115-156-11	CERAMIC CHIP	1uF		10V
C48	1-126-157-11	ELECT	10uF	20%	16V
C49	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C50	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C51	1-115-156-11	CERAMIC CHIP	1uF		10V
C52	1-115-156-11	CERAMIC CHIP	1uF		10V
C53	1-126-518-11	ELECT	470uF	20.00%	4V
C54	1-124-584-00	ELECT	100uF	20%	10V
C55	1-124-584-00	ELECT	100uF	20%	10V
C60	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< FILTER >			
CF1	1-795-846-21	FILTER, CERAMIC			
CF2	1-795-323-11	FILTER, CERAMIC			
CF3	1-795-845-21	DISCRIMINATOR, CERAMIC			
		< TRIMMER >			
CT1	1-141-601-11	CAP, ADJ			
CT2	1-141-601-11	CAP, ADJ			
		< DIODE >			
D1	8-719-987-50	DIODE HVU-300A-TRU			
D2	8-719-987-50	DIODE HVU-300A-TRU			
D3	8-719-987-50	DIODE HVU-300A-TRU			
D4	6-500-187-01	DIODE KV1610STL2			
D6	8-719-062-51	DIODE 1PS226-115			
D7	8-719-062-51	DIODE 1PS226-115			

MAIN

Ref. No.	Part No.	Description			Remarks
		< IC >			
IC1	6-703-664-01	IC TA2154AFN-EL			
IC2	6-700-362-01	IC LA4535M-TE-L			
		< JACK >			
J1	1-770-894-11	JACK ( )			
		< CONDUCTOR >			
JC1	1-216-864-11	METAL CHIP	0	5%	1/16W
JC3	1-216-864-11	METAL CHIP	0	5%	1/16W
JC4	1-216-864-11	METAL CHIP	0	5%	1/16W
JC5	1-216-864-11	METAL CHIP	0	5%	1/16W
JC6	1-216-864-11	METAL CHIP	0	5%	1/16W
JC7	1-216-864-11	METAL CHIP	0	5%	1/16W
JC8	1-216-864-11	METAL CHIP	0	5%	1/16W
JC9	1-216-864-11	METAL CHIP	0	5%	1/16W
JC10	1-216-864-11	METAL CHIP	0	5%	1/16W
JC11	1-216-864-11	METAL CHIP	0	5%	1/16W
JC12	1-216-864-11	METAL CHIP	0	5%	1/16W
JC13	1-216-864-11	METAL CHIP	0	5%	1/16W
JC18	1-216-864-11	METAL CHIP	0	5%	1/16W
		< COIL >			
L1	1-428-768-11	COIL, AIR-CORE			
L2	1-414-684-11	INDUCTOR	27NH		
L3	1-456-251-11	COIL, FERRITE-ROD ANTENNA (MW)			
L4	1-456-250-11	COIL, OSCILLATION (MW)			
L7	1-411-393-11	COIL, TRAP			
L12	1-412-963-11	INDUCTOR	100uH		
		< TRANSISTOR >			
Q1	8-729-423-52	TRANSISTOR	2SC3931-C-TX		
Q2	8-729-028-74	TRANSISTOR	DTA114TUA-T106		
Q3	8-729-029-15	TRANSISTOR	DTC144TUA-T106		
Q4	8-729-029-15	TRANSISTOR	DTC144TUA-T106		
Q5	8-729-109-44	TRANSISTOR	2SK209Y-TE85L		
Q6	8-729-423-52	TRANSISTOR	2SC3931-C-TX		
Q7	8-729-028-76	TRANSISTOR	DTA114YUA-T106		
Q8	8-729-029-15	TRANSISTOR	DTC144TUA-T106		
		< RESISTOR >			
R1	1-216-809-11	METAL CHIP	100	5%	1/16W
R2	1-216-809-11	METAL CHIP	100	5%	1/16W
R3	1-216-837-11	METAL CHIP	22K	5%	1/16W
R4	1-216-813-11	METAL CHIP	220	5%	1/16W
R5	1-216-845-11	METAL CHIP	100K	5%	1/16W
R6	1-216-845-11	METAL CHIP	100K	5%	1/16W
R7	1-216-845-11	METAL CHIP	100K	5%	1/16W
R8	1-216-845-11	METAL CHIP	100K	5%	1/16W
R11	1-216-833-11	METAL CHIP	10K	5%	1/16W
R12	1-216-813-11	METAL CHIP	220	5%	1/16W
R13	1-216-813-11	METAL CHIP	220	5%	1/16W
R14	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R15	1-216-857-11	METAL CHIP	1M	5%	1/16W
R19	1-216-813-11	METAL CHIP	220	5%	1/16W
R20	1-216-837-11	METAL CHIP	22K	5%	1/16W

Ref. No.	Part No.	Description			Remarks
R21	1-216-821-11	METAL CHIP	1K	5%	1/16W
R22	1-216-821-11	METAL CHIP	1K	5%	1/16W
R23	1-216-821-11	METAL CHIP	1K	5%	1/16W
R26	1-216-801-11	METAL CHIP	22	5%	1/16W
R27	1-216-833-11	METAL CHIP	10K	5%	1/16W
R28	1-216-833-11	METAL CHIP	10K	5%	1/16W
R29	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R30	1-216-797-11	METAL CHIP	10	5%	1/16W
R32	1-216-821-11	METAL CHIP	1K	5%	1/16W
		< VARIABLE RESISTOR >			
RV1	1-227-540-11	RES, VAR, CARBON 10K/10K (VOL)			
		< SWITCH >			
S1	1-771-722-11	SWITCH, SLIDE (FM SENS)			
**********					
		MISCELLANEOUS			
		**********			
4	1-786-468-21	SWITCH, RUBBER KEY (PRESET)			
**********					
		ACCESSORIES			
		**********			
	3-048-389-21	CLIP, BELT			
	3-249-146-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, DUTCH, SPANISH, PORTUGUESE)			
	8-954-008-93	RECEIVER,EAR MDR-E808LP/C1 SET			

MEMO

REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2003.03	New