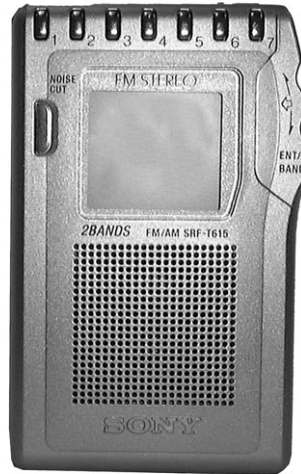


SRF-T615

SERVICE MANUAL

Ver 1.0 1999.10

Tourist Model



SPECIFICATIONS

Frequency range

Band	Frequency range	Channel step
FM	76-108 MHz	0.1 MHz
AM	530-1,710 kHz	9 kHz/10 kHz

Speaker

Approx. 2.8 cm (1 ¹/₄ inches) dia., 7.2 Ω

Output

∅ (headphone) jack (∅ 3.5 mm, stereo-minijack)

Power output

80 mW (at 10% harmonic distortion)

Power requirements

3 V DC, two R03 (size AAA) batteries

Power Auto Off function

Approx. 30 minutes, 60 minutes, 90 minutes, 120 minutes, and off

Dimensions

Approx. 55 × 91 × 13.5 mm (w/h/d)
(2 ¹/₄ × 3 ⁵/₈ × ⁹/₁₆ inches) not incl.
projecting parts and controls
Approx. 56.8 × 91.7 × 13.8 mm (w/h/d)
(2 ¹/₄ × 3 ⁵/₈ × ⁹/₁₆ inches) incl.
projecting parts and controls

Mass

Approx. 68 g (2.4 oz) incl. batteries

Supplied Accessories

Batteries (2)
Headphones (1)
Ear pads (2)
Carrying case (1)

Design and specifications are subject to change without notice.

FM STEREO/AM PLL SYNTHESIZED RADIO



SONY®

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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.

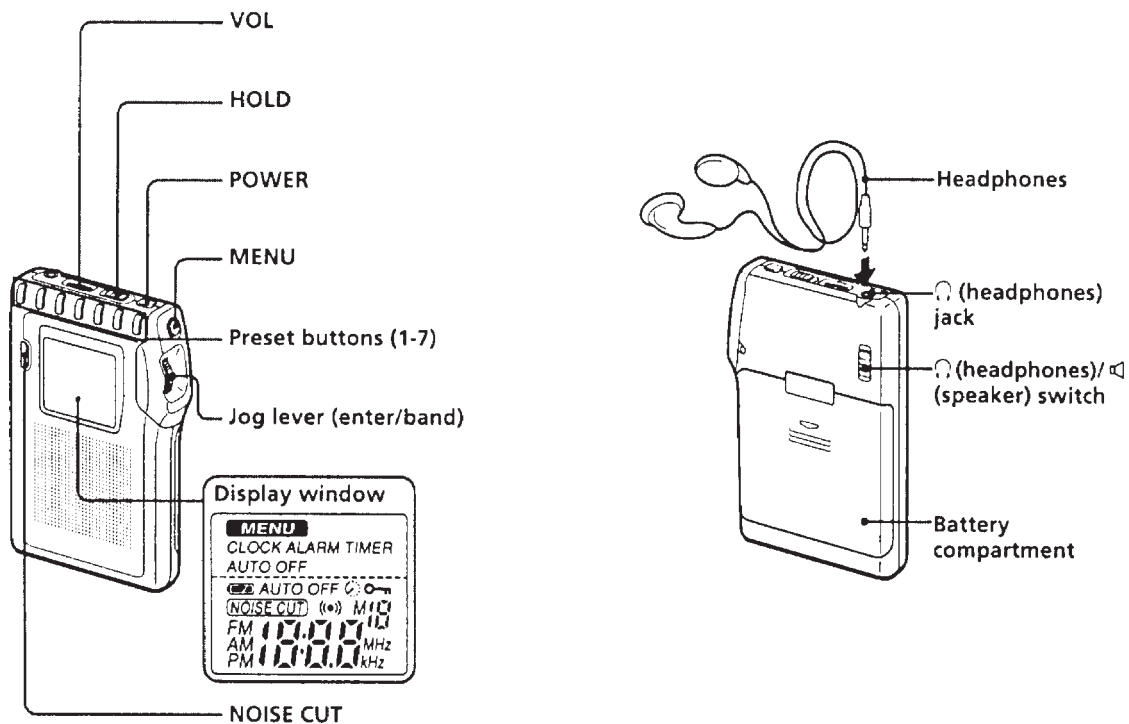
Notes on chip component replacement

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

SECTION 1 GENERAL

This section is extracted from instruction manual.

LOCATION AND FUNCTION OF CONTROLS



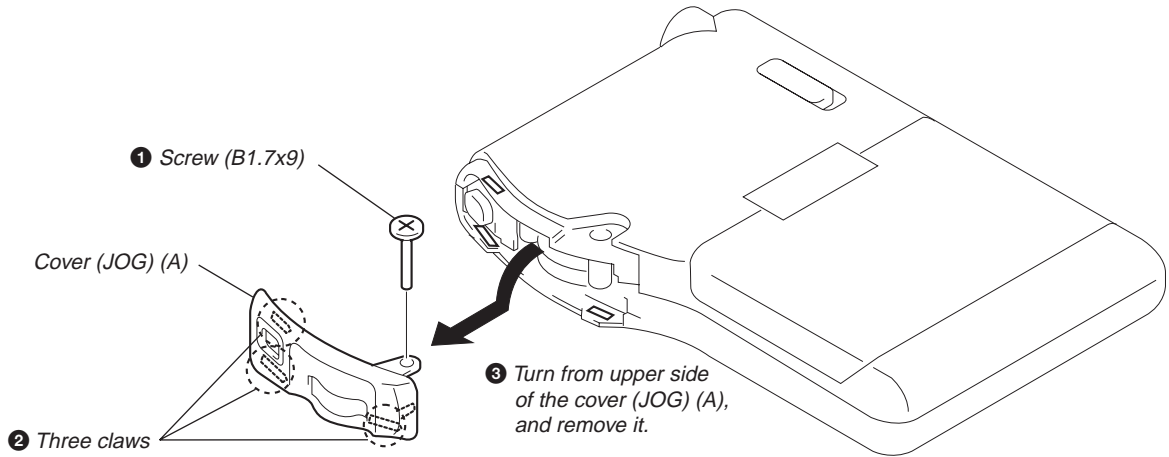
SECTION 2 DISASSEMBLY

● The equipment can be removed using the following procedure.

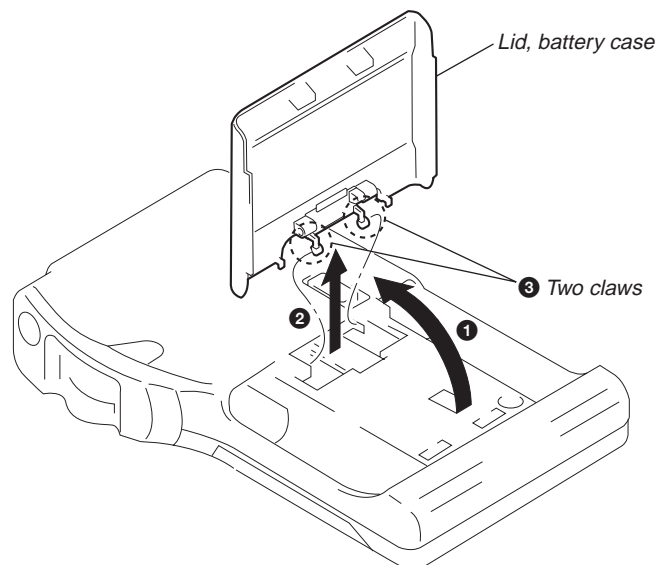
Set → Cover (JOG) (A) → Lid, Battery Case → Cabinet (Rear) → Main Board

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

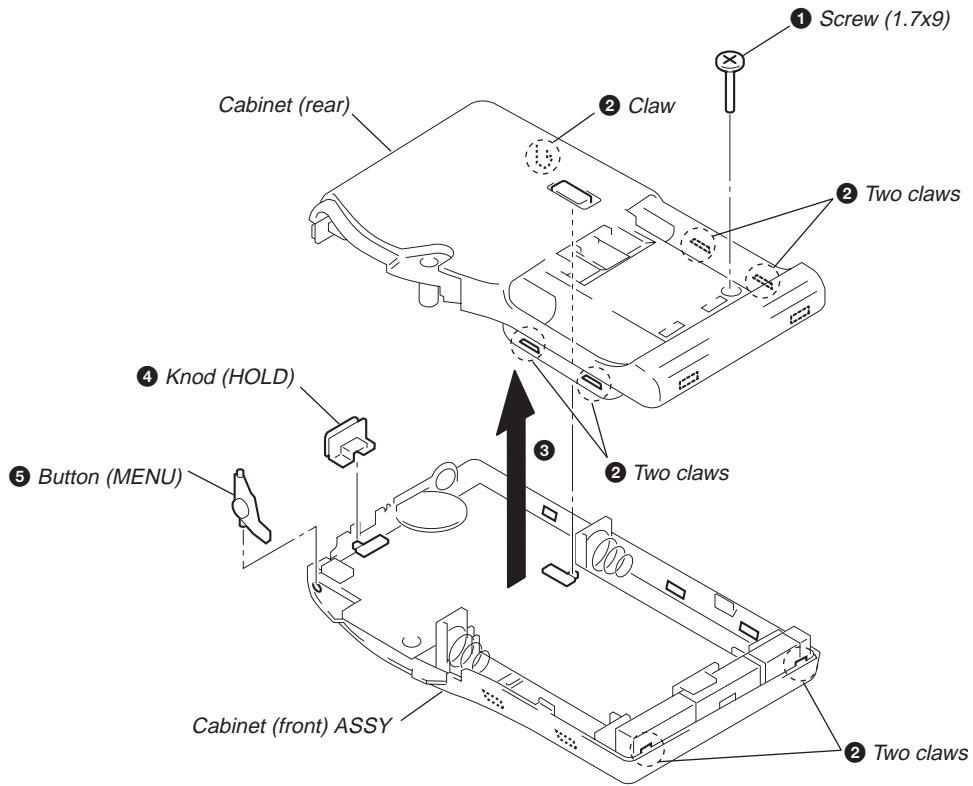
2-1. COVER (JOG) (A)



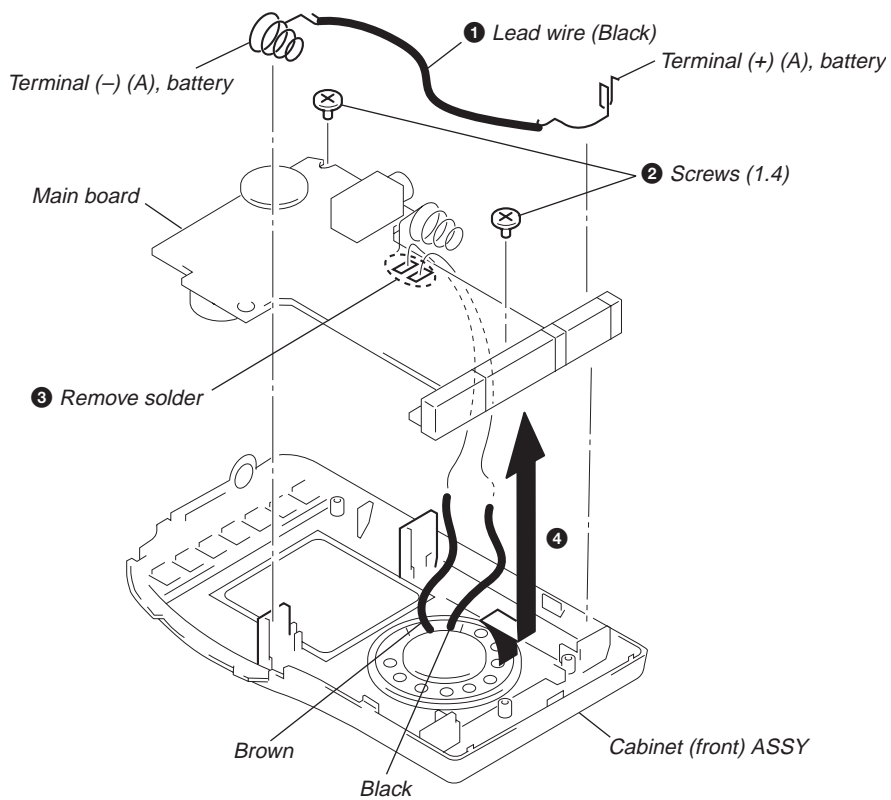
2-2. LID, BATTERY CASE



2-3. CABINET (REAR)



2-4. MAIN BOARD

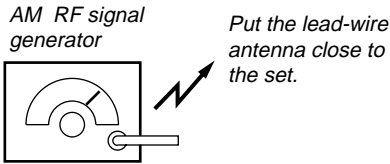


SECTION 3 ADJUSTMENTS

TUNER SECTION 0dB = 1μ V

AM Section

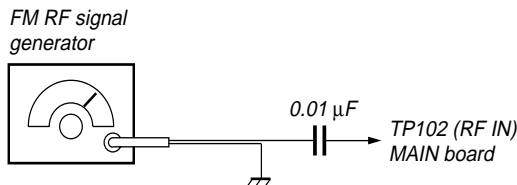
Band : AM
Volume : MIN



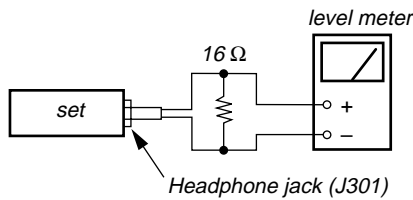
30% amplitude modulation by 400Hz signal.
Output level : as low as possible

FM Section

Band : FM
Volume : MIN



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



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ADJUSTMENT	
Adjust for a maximum reading on level meter.	
T101	450kHz

AM FREQUENCY COVERAGE ADJUSTMENT		
Adjust part	Frequency display	reading on digital voltmeter.
L103	531kHz	Adjustment Value : 2.5V Standard Value : 2.45 – 2.55V
Confirmation	1,710kHz	7.8 – 10.8V

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L104	585kHz
CT101	1,485kHz

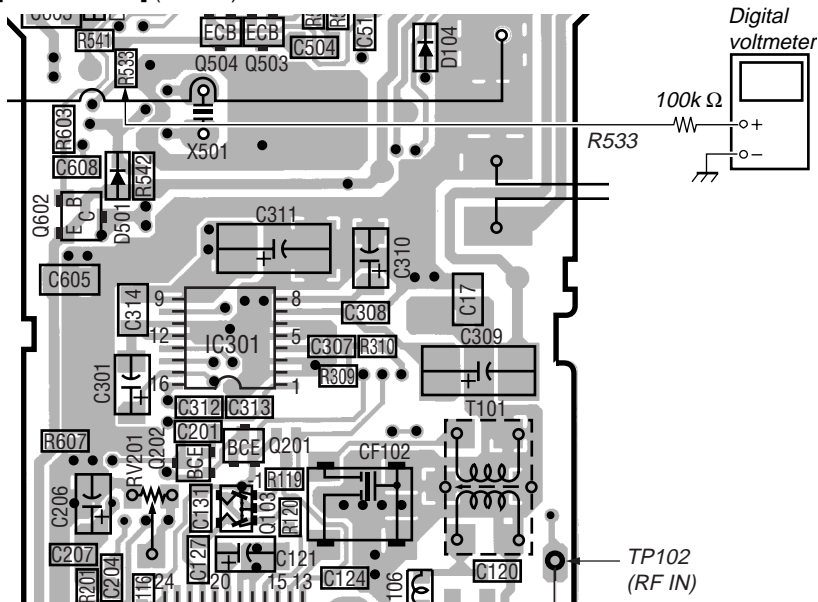
FM FREQUENCY COVERAGE CONFIRMATION		
Adjust part	Frequency display	reading on digital voltmeter.
Confirmation	76.0MHz	2.2 – 4.2V
Confirmation	108.0MHz	7.5 – 10.5V

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L101	76.0MHz
CT102	108.0MHz

Frequency Coverage Adjustment

Connect Location :

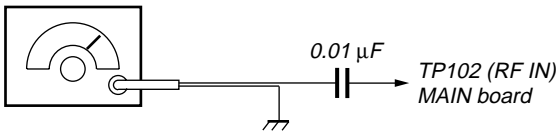
[MAIN BOARD] (SIDE B)



FM VCO Adjustment

Procedure :

FM RF signal generator

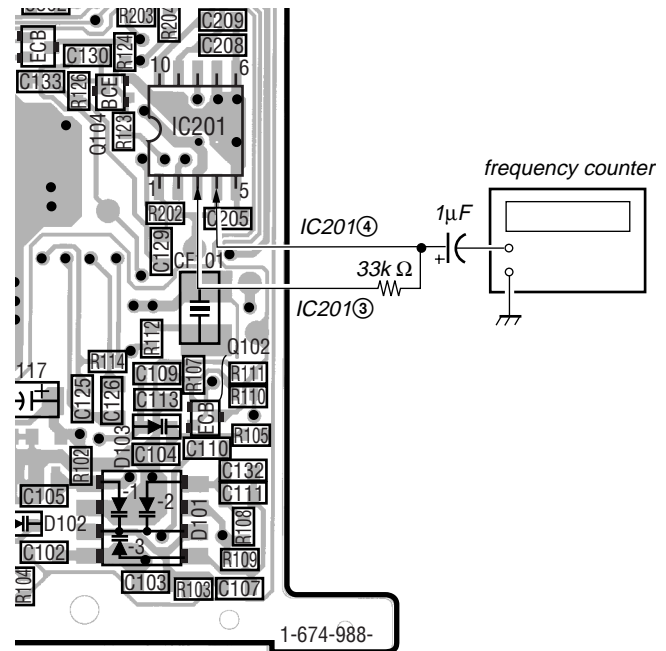


Carrier frequency : 98MHz
Modulation : no modulation
Output level : 100dB μ V (100mV)

1. Connect the frequency counter to ③ to ④ pins of IC201 as shown the figure.
2. Turn the set to 98MHz.
3. Adjust RV201 for 76.0kHz reading on frequency counter.
Standard Value : 75.95 –76.05kHz

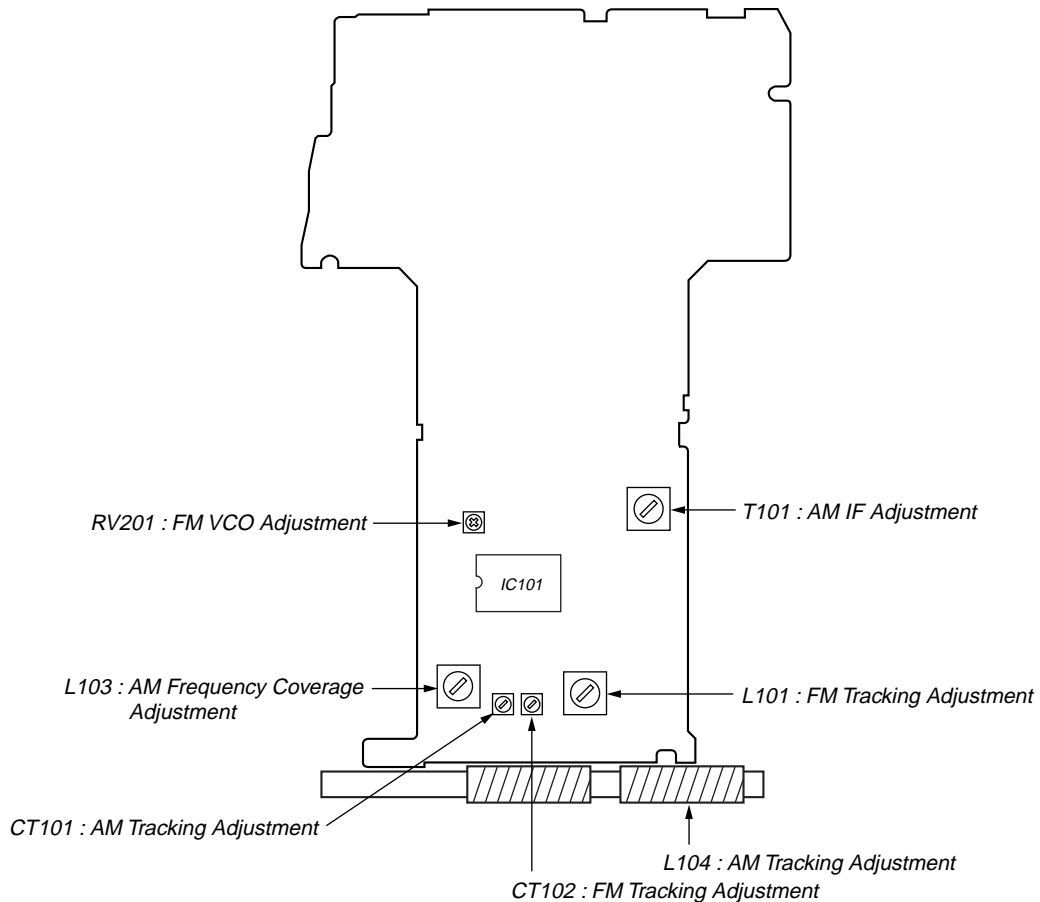
Connect Location :

[MAIN BOARD] (SIDE A)



Adjustment Location :

[MAIN BOARD] (SIDE B)



SECTION 4 DIAGRAMS

4-1. EXPLANATION OF IC TERMINALS

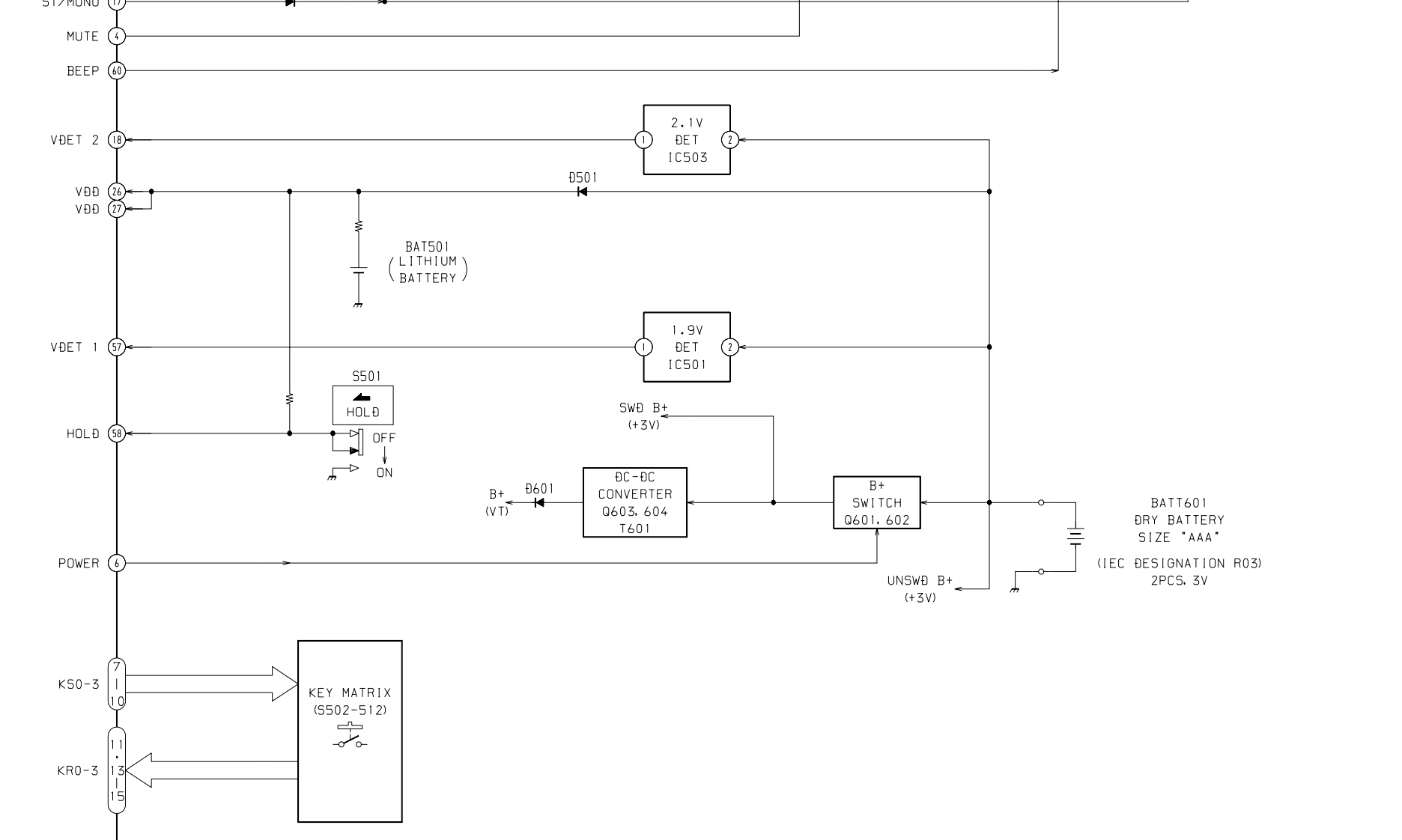
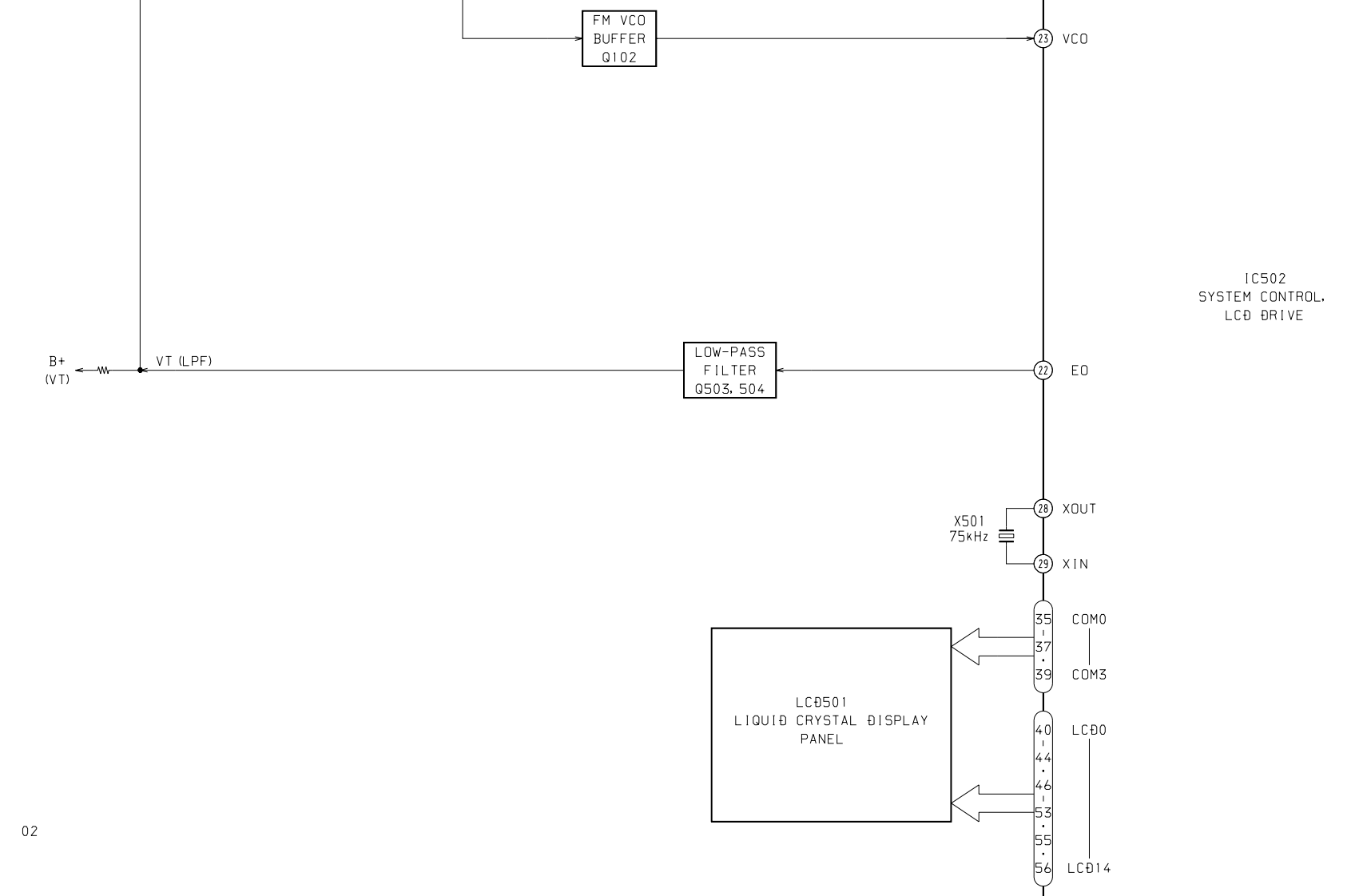
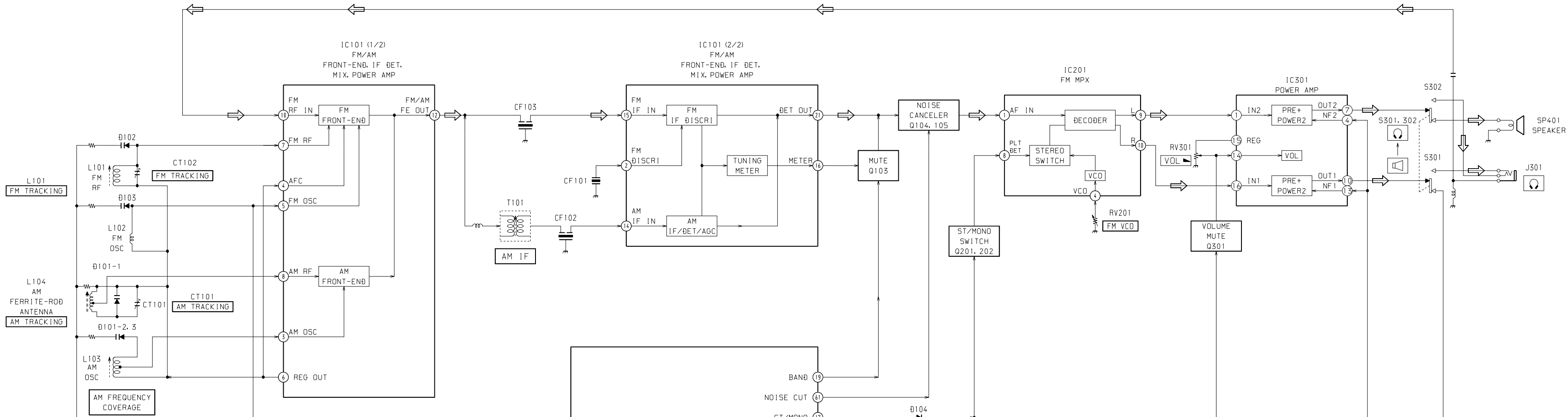
IC502 μ PD17073GB-925-9EU (SYSTEM CONTROL, LCD DRIVE)

Pin No.	Pin name	I/O	Description
1	DO	—	Not used (OPEN).
2	EEPROM CS	—	Not used (OPEN).
3	TV 4-12CH	—	Not used (OPEN).
4	MUTE	O	Audio mute signal output.
5	NC	—	Not used (Connect to ground).
6	POWER	O	Power ON/OFF control output.
7	KS0	O	Key source signal output. *1
8	KS1	O	Key source signal output. *1
9	KS2	O	Key source signal output. *1
10	KS3	O	Key source signal output. *1
11	KR0	I	Key return signal input.
12	NC	—	Not used (Connect to ground).
13	KR1	I	Key return signal input. *1
14	KR2	I	Key return signal input. *1
15	KR3	I	Key return signal input. *1
16	METER	O	Meter drive signal output (Not used : OPEN).
17	ST/MONO	O	Stereo/ Mono control signal output.
18	V DET2	I	Voltage decrease detection input. “L” : less than 2.1V (Change to clock mode).
19	BAND	O	Band select output. “H” : AM, “L” : FM
20	GND	—	Ground terminal.
21	GND	—	Ground terminal.
22	EO	O	PLL error signal output for PLL LPF.
23	VCOL	I	VCO input.
24	VCOH	—	Not used (OPEN).
25	REG0	—	Capacitor connection terminal for LCD drive voltage.
26	VDD	—	Power supply terminal (3V).
27	VDD	—	Power supply terminal (3V).
28	X OUT	O	System clock output (75kHz).
29	X IN	I	System clock input (75kHz).
30	REG1	—	Capacitor connection terminal for LCD drive voltage.
31	LEG LCD0	—	Capacitor connection terminal for LCD drive voltage.
32	CAP LCD0	—	Capacitor connection terminal for LCD drive voltage.
33	CAP2 LCD1	—	Capacitor connection terminal for LCD drive voltage.
34	LEG LCD1	—	Capacitor connection terminal for LCD drive voltage.
35	COM0	O	Common signal output for LCD.
36	COM1	O	Common signal output for LCD.
37	COM2	O	Common signal output for LCD.
38	NC	—	Not used (Connect to ground).
39	COM3	O	Common signal output for LCD.
40	LCD0	O	Segment signal output for LCD.
41	LCD1	O	Segment signal output for LCD.
42	LCD2	O	Segment signal output for LCD.
43	LCD3	O	Segment signal output for LCD.
44	LCD4	O	Segment signal output for LCD.
45	NC	—	Not used (Connect to ground).

Pin No.	Pin name	I/O	Description
46	LCD5	O	Segment signal output for LCD.
47	LCD6	O	Segment signal output for LCD.
48	LCD7	O	Segment signal output for LCD.
49	LCD8	O	Segment signal output for LCD.
50	LCD9	O	Segment signal output for LCD.
51	LCD10	O	Segment signal output for LCD.
52	LCD11	O	Segment signal output for LCD.
53	LCD12	O	Segment signal output for LCD.
54	NC	—	Not used (Connected to ground).
55	LCD13	O	Segment signal output for LCD.
56	LCD14	O	Segment signal output for LCD.
57	CE	I	Voltage decrease detection input. “L” : less than 1.9V (Change to clock mode).
58	INT	I	Hold switch input terminal. “L” : Hold
59	NC	—	Not used (Connect to ground).
60	BEEP	O	Beep signal output.
61	NOISE CUT	O	Noise filter circuit control signal output.
62		—	Not used (OPEN)
63		—	Not used (Fixed at “L”)
64	DI	—	Not used.

*1 Key matrix

	KS0 (⑦ pin)	KS1 (⑧ pin)	KS2 (⑨ pin)	KS3 (⑩ pin)
KR0 (⑪ pin)	Preset station <1> S502	POWER S503	ENT/BAND S504 (JOG)	Preset station <5> S505
KR1 (⑫ pin)	Preset station <4> S506	NOISE CUT S507	TUNE <-> S504 (JOG)	
KR2 (⑬ pin)	Preset station <2> S508			Preset station <6> S509
KR3 (⑭ pin)	Preset station <3> S510	MENU S511	TUNE <+> S504 (JOG)	Preset station <7> S512

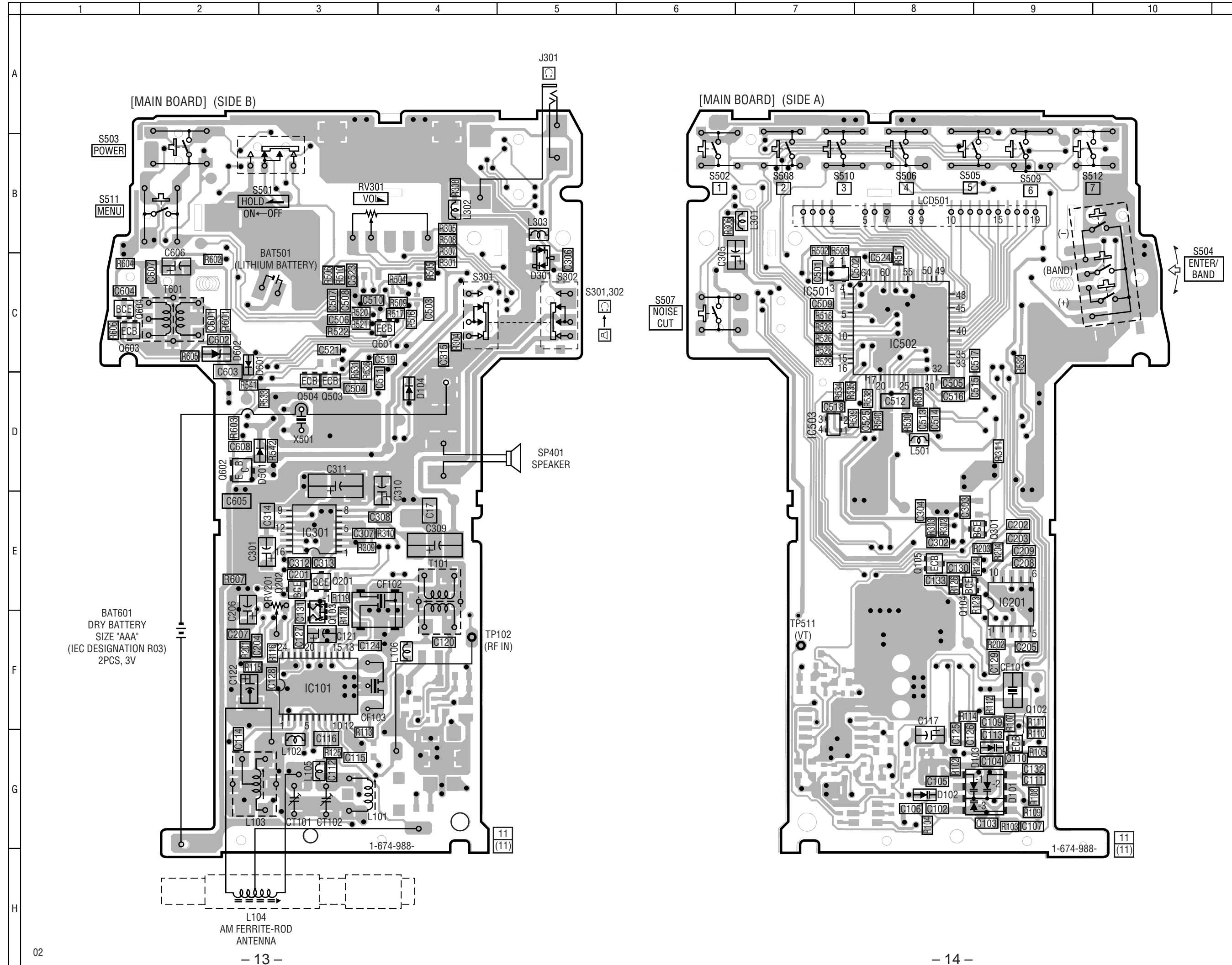


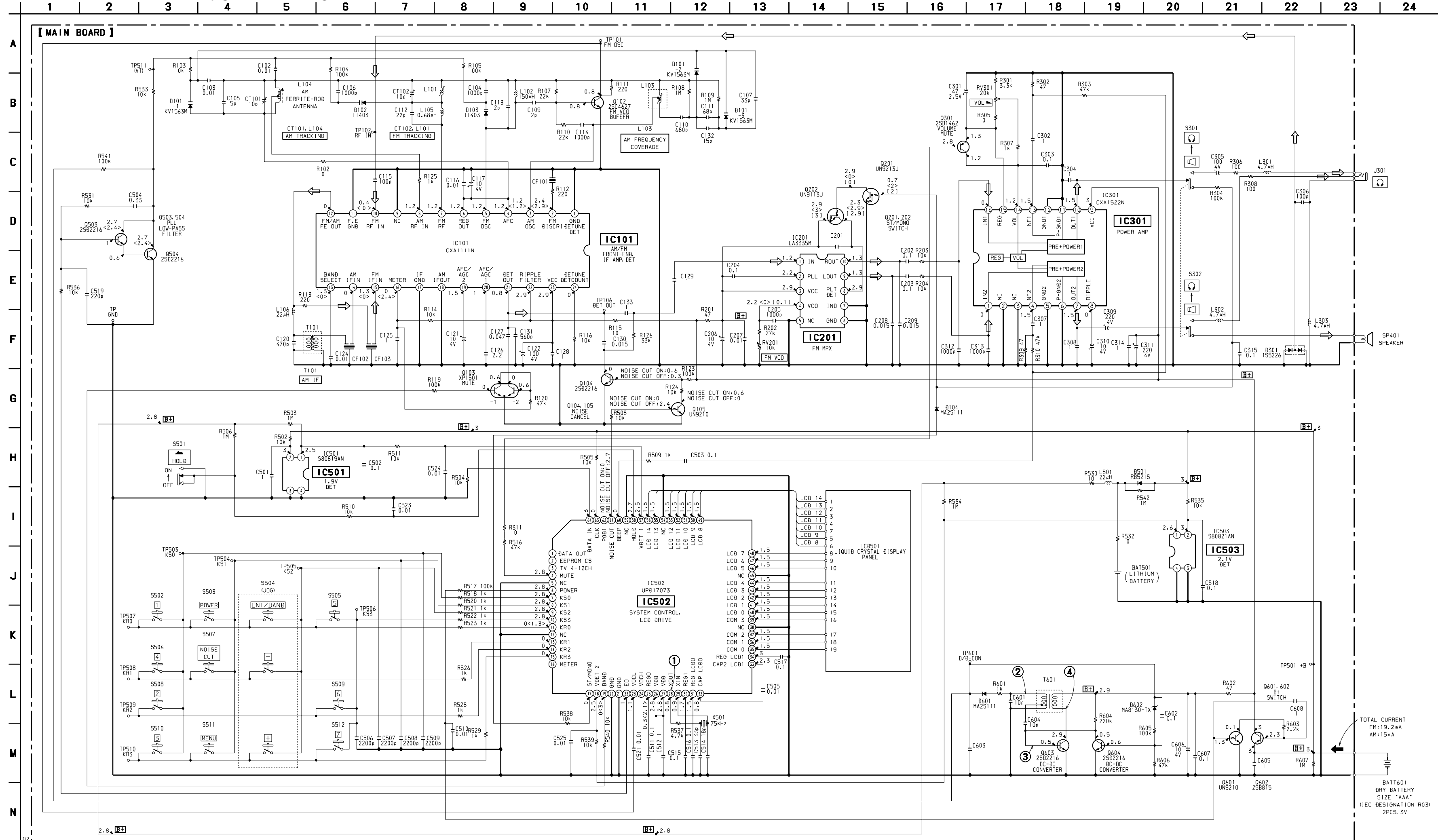
• Signal path.
◁ : FM

4-3. PRINTED WIRING BOARDS

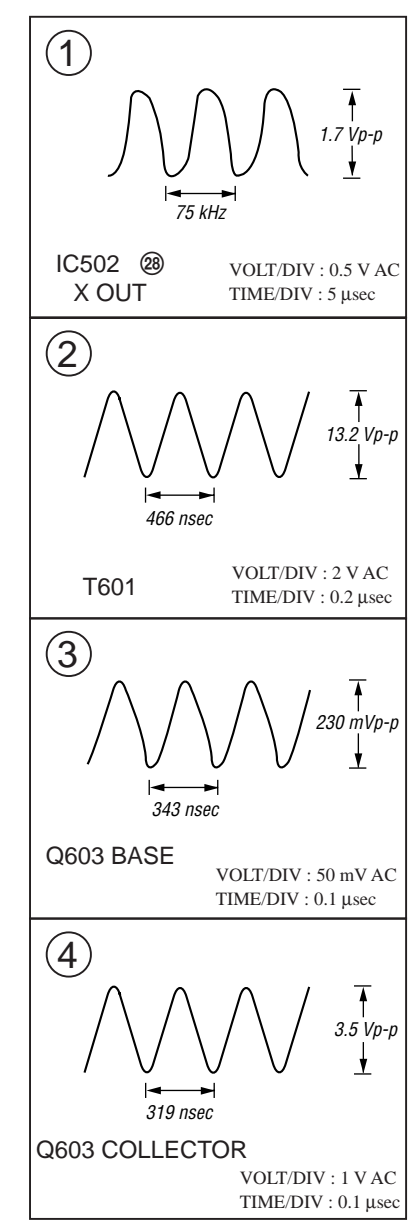
● Semiconductor Location

Ref. No.	Location
D101	G-9
D102	G-8
D103	G-9
D104	D-4
D301	C-5
D501	D-2
D601	C-2
D602	C-2
IC101	F-3
IC201	E-9
IC301	E-3
IC501	C-7
IC502	C-8
IC503	D-7
Q102	G-9
Q103	E-3
Q104	E-8
Q105	E-8
Q201	F-3
Q202	E-3
Q301	E-9
Q503	D-3
Q504	D-3
Q601	C-4
Q602	D-2
Q603	C-1
Q604	C-1





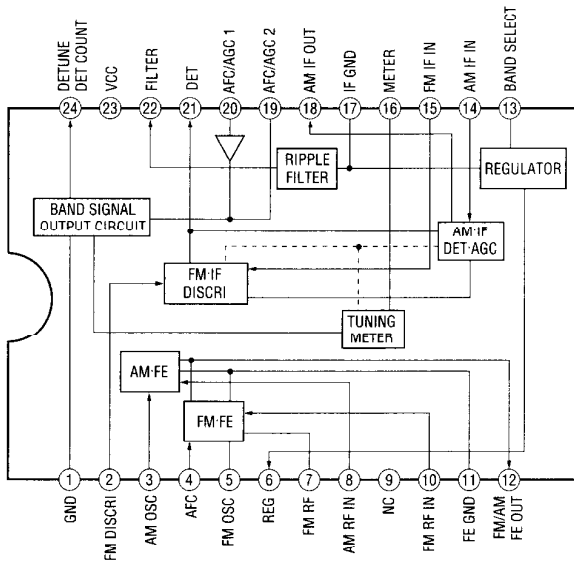
• WAVEFORMS



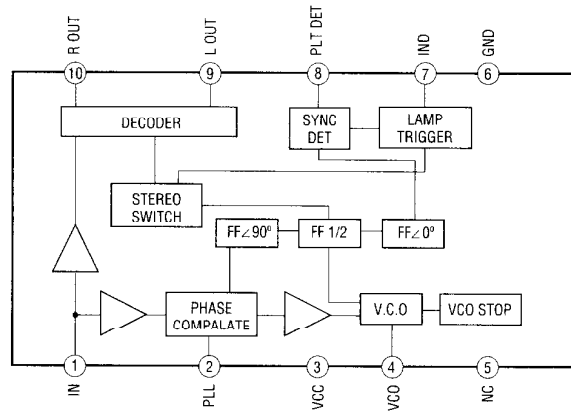
- Note:**
- All capacitors are in μF unless otherwise noted. pF: μμF
 - 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and 1/4 W or less unless otherwise specified.
 - [B+] : B+ Line.
 - [] : adjustment for repair.
 - Power voltage is dc 3V and fed with regulated dc power supply from battery terminal.
 - Voltages and waveforms are dc with respect to ground under no-signal (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 an oscilloscope. Voltage variations may be noted due to normal production tolerances.
 - Circled numbers refer to waveforms.
 - Signal path.
 - ↔ : FM

• IC BLOCK DIAGRAMS

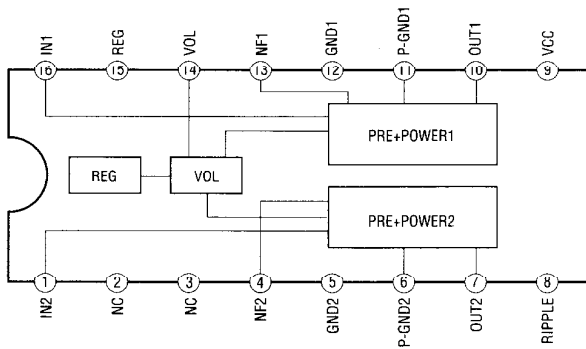
IC101 CXA1111N



IC201 LA3335M



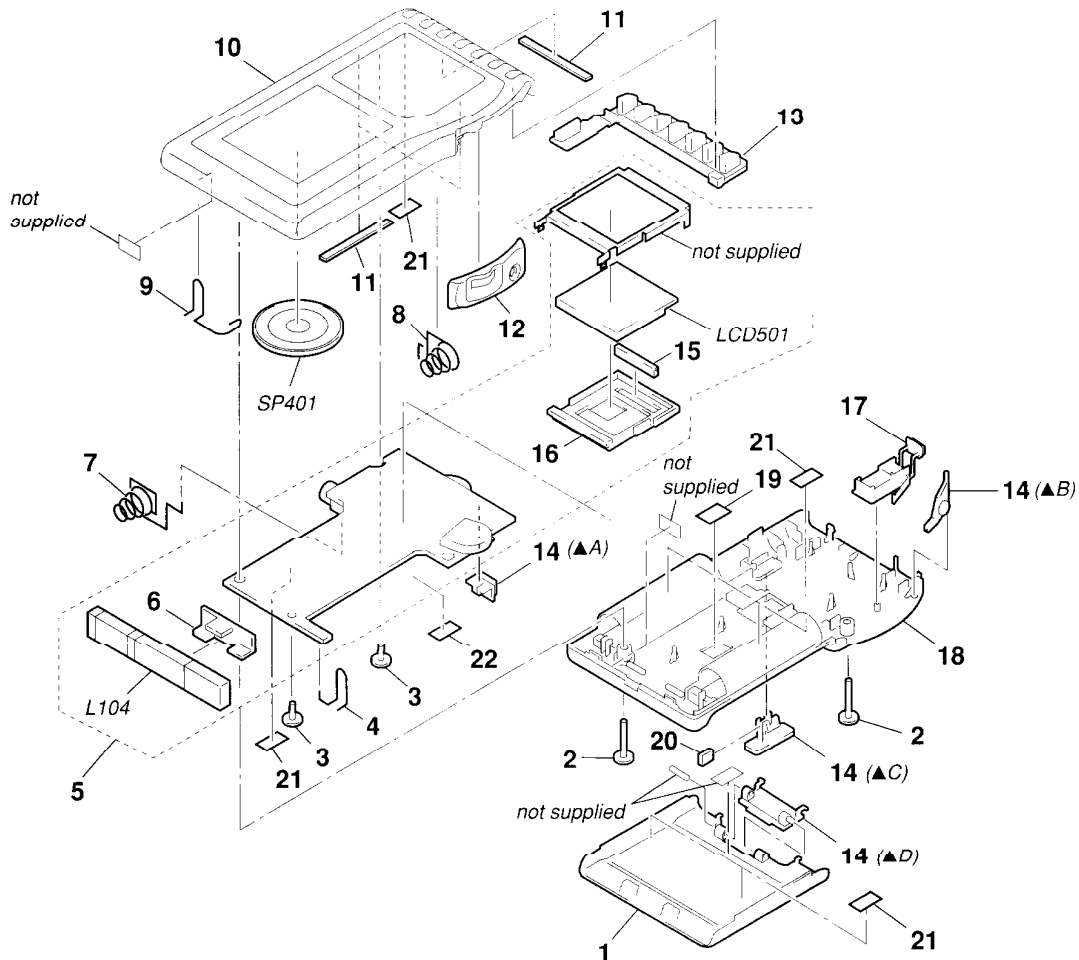
IC301 CXA1522N



SECTION 5 EXPLODED VIEW

NOTE :

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



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-039-058-01	LID, BATTERY CASE		15	1-694-596-11	CONDUCTIVE BOARD, CONNECTION	
2	3-318-203-91	SCREW (B1.7X9), TAPPING		16	3-039-060-01	HOLDER (LCD)	
3	3-309-597-41	SCREW (1.4), TAPPING		17	3-039-059-01	BUTTON (POWER)	
4	3-039-073-01	TERMINAL (+) (B), BATTERY		18	3-039-057-11	CABINET (REAR)	
* 5	A-3683-119-A	MAIN BOARD, COMPLETE		19	3-039-063-01	PLATE	
6	3-039-061-01	HOLDER (ANT)		20	3-042-771-01	SPACER (EP/SP)	
7	3-039-074-01	TERMINAL (-) (B), BATTERY		21	3-831-441-99	CUSHION	
8	3-039-072-01	TERMINAL (-) (A), BATTERY		* 22	3-036-658-01	SHEET, ADHESIVE	
9	3-039-071-01	TERMINAL (+) (A), BATTERY		L104	1-501-974-21	ANTENNA, FERRITE-ROD (MW)	(AM TRACKING)
10	X-3377-972-1	CABINET (FRONT) ASSY		LCD501	1-803-791-11	DISPLAY PANEL, LIQUID CRYSTAL	
11	3-035-166-01	SPACER (LCD)		SP401	1-529-187-11	SPEAKER (2.8cm)	
12	3-039-068-11	COVER (JOG) (A)					
13	3-039-069-01	BUTTON (PRESET)					
14	3-039-081-01	COMBINED (KNOB)					
		(INCLUDING ▲A: KNOB (HOLD), ▲B: BUTTON (MENU), ▲C: KNOB (EAR/SP), ▲D: HINGE (LID, BATTERY CASE))					

MAIN

**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.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE :Metal oxide-film resistor
F : nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-3683-119-A	MAIN BOARD, COMPLETE *****		C202	1-164-156-11	CERAMIC CHIP 0.1uF	25V
	1-694-596-11	CONDUCTIVE BOARD, CONNECTION		C203	1-164-156-11	CERAMIC CHIP 0.1uF	25V
*	3-036-658-01	SHEET, ADHESIVE		C204	1-164-156-11	CERAMIC CHIP 0.1uF	25V
	3-039-060-01	HOLDER (LCD)		C205	1-115-416-11	CERAMIC CHIP 1000PF	5% 25V
	3-039-061-01	HOLDER (ANT)		C206	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
	3-831-441-99	CUSHION, STOPPER		C207	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
*	4-920-257-01	COVER, INSULATING, FLEXIBLE		C208	1-164-245-11	CERAMIC CHIP 0.015uF	10% 25V
	< BATTERY >			C209	1-164-245-11	CERAMIC CHIP 0.015uF	10% 25V
BAT501	1-528-412-11	BATTERY, PAS SECONDARY		C301	1-119-663-11	TANTAL. CHIP 47uF	20% 2.5V
	< CAPACITOR >			C302	1-125-837-91	CERAMIC CHIP 1uF	10% 6.3V
				C303	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C102	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C304	1-125-837-91	CERAMIC CHIP 1uF	10% 6.3V
C103	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C305	1-127-569-91	TANTAL. CHIP 100uF	20% 4V
C104	1-164-357-11	CERAMIC CHIP 1000PF	5% 50V	C306	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C105	1-162-910-11	CERAMIC CHIP 5PF	0.25PF 50V	C307	1-125-837-91	CERAMIC CHIP 1uF	10% 6.3V
C106	1-164-357-11	CERAMIC CHIP 1000PF	5% 50V	C308	1-125-837-91	CERAMIC CHIP 1uF	10% 6.3V
C107	1-162-921-11	CERAMIC CHIP 33PF	5% 50V	C309	1-125-899-11	TANTAL. CHIP 220uF	20% 4V
C109	1-162-907-11	CERAMIC CHIP 2PF	0.25PF 50V	C310	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C110	1-165-325-11	CERAMIC CHIP 680PF	2% 50V	C311	1-125-899-11	TANTAL. CHIP 220uF	20% 4V
C111	1-109-864-91	CERAMIC CHIP 68PF	2% 50V	C312	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C112	1-162-919-11	CERAMIC CHIP 22PF	5% 50V	C313	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C113	1-162-907-11	CERAMIC CHIP 2PF	0.25PF 50V	C314	1-109-982-11	CERAMIC CHIP 1uF	10% 10V
C114	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C315	1-107-826-91	CERAMIC CHIP 0.1uF	10% 16V
C115	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	C501	1-115-156-11	CERAMIC CHIP 1uF	10V
C116	1-163-021-91	CERAMIC CHIP 0.01uF	10% 50V	C502	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C117	1-135-201-11	TANTALUM CHIP 10uF	20% 4V	C503	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C120	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	C504	1-110-501-11	CERAMIC CHIP 0.33uF	10% 16V
C121	1-135-201-11	TANTALUM CHIP 10uF	20% 4V	C505	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C122	1-127-569-91	TANTAL. CHIP 100uF	20% 4V	C506	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C124	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C507	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C125	1-115-156-11	CERAMIC CHIP 1uF	10V	C508	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C126	1-164-505-11	CERAMIC CHIP 2.2uF	16V	C509	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C127	1-165-176-11	CERAMIC CHIP 0.047uF	10% 16V	C510	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C128	1-115-156-11	CERAMIC CHIP 1uF	10V	C511	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C129	1-115-156-11	CERAMIC CHIP 1uF	10V	C512	1-164-346-11	CERAMIC CHIP 1uF	16V
C130	1-164-245-11	CERAMIC CHIP 0.015uF	10% 25V	C513	1-162-921-11	CERAMIC CHIP 33PF	5% 50V
C131	1-164-363-11	CERAMIC CHIP 560PF	5% 50V	C514	1-162-918-11	CERAMIC CHIP 18PF	5% 50V
C132	1-162-917-11	CERAMIC CHIP 15PF	5% 50V	C515	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C133	1-115-156-11	CERAMIC CHIP 1uF	10V	C516	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C201	1-115-156-11	CERAMIC CHIP 1uF	10V	C517	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C518	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C519	1-162-957-11	CERAMIC CHIP 220PF	5% 50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C521	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V			< LIQUID CRYSTAL DISPLAY >	
C523	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V				
C524	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V				
C525	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	LCD501	1-803-791-11	DISPLAY PANEL, LIQUID CRYSTAL	
C601	1-164-850-11	CERAMIC CHIP 10PF 0.5PF	16V			< TRANSISTOR >	
C602	1-164-156-11	CERAMIC CHIP 0.1uF	25V	Q102	8-729-037-89	TRANSISTOR 2SC4627J-C(TX).SO	
C603	1-164-346-11	CERAMIC CHIP 1uF	16V	Q103	8-729-429-44	TRANSISTOR XP1501	
C604	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V	Q104	8-729-037-92	TRANSISTOR 2SD2216J-R(TX).SO	
C605	1-164-346-11	CERAMIC CHIP 1uF	16V	Q105	8-729-037-71	TRANSISTOR UN9210J-(TX).SO	
C606	1-135-201-11	TANTALUM CHIP 10uF 20%	4V	Q201	8-729-037-74	TRANSISTOR UN9213J-(TX).SO	
C607	1-164-156-11	CERAMIC CHIP 0.1uF	25V	Q202	8-729-037-61	TRANSISTOR UN9113J-(TX).SO	
C608	1-115-156-11	CERAMIC CHIP 1uF	10V	Q301	8-729-037-53	TRANSISTOR 2SB1462J-QR(TX).SO	
		< FILTER >		Q503	8-729-037-92	TRANSISTOR 2SD2216J-R(TX).SO	
CF101	1-781-419-71	FILTER, CERAMIC(DISCRIMINATOR)		Q504	8-729-037-92	TRANSISTOR 2SD2216J-R(TX).SO	
CF102	1-767-480-11	FILTER, CERAMIC (AM)		Q601	8-729-037-71	TRANSISTOR UN9210J-(TX).SO	
CF103	1-577-588-81	FILTER, CERAMIC		Q602	8-729-800-71	TRANSISTOR 2SB815B7-TB	
		< TRIMMER >		Q603	8-729-037-92	TRANSISTOR 2SD2216J-R(TX).SO	
CT101	1-141-615-21	CAP, ADJ (AM TRACKING)		Q604	8-729-037-92	TRANSISTOR 2SD2216J-R(TX).SO	
CT102	1-141-615-21	CAP, ADJ (FM TRACKING)				< RESISTOR >	
		< DIODE >		R102	1-218-990-11	SHORT 0	
D101	8-719-023-99	DIODE KV1563M-3		R103	1-218-965-11	RES,CHIP 10K 5%	1/16W
D102	8-713-102-96	DIODE 1T403-M20-T8A		R104	1-218-977-11	RES,CHIP 100K 5%	1/16W
D103	8-713-102-96	DIODE 1T403-M20-T8A		R105	1-218-977-11	RES,CHIP 100K 5%	1/16W
D104	8-719-046-91	DIODE MA2S111		R107	1-218-969-11	RES,CHIP 22K 5%	1/16W
D301	8-719-800-76	DIODE 1SS226		R108	1-218-989-11	RES,CHIP 1M 5%	1/16W
D501	8-719-071-34	DIODE RB521S-30-TE61		R109	1-218-989-11	RES,CHIP 1M 5%	1/16W
D601	8-719-046-91	DIODE MA2S111		R110	1-218-969-11	RES,CHIP 22K 5%	1/16W
D602	8-719-420-87	DIODE MA8130		R111	1-218-945-11	RES,CHIP 220 5%	1/16W
		< IC >		R112	1-218-945-11	RES,CHIP 220 5%	1/16W
IC101	8-752-065-30	IC CXA1111N		R113	1-218-945-11	RES,CHIP 220 5%	1/16W
IC201	8-759-804-98	IC LA3335M		R114	1-218-965-11	RES,CHIP 10K 5%	1/16W
IC301	8-752-065-32	IC CXA1522N		R115	1-218-929-11	RES,CHIP 10 5%	1/16W
IC501	8-759-578-28	IC S-80819ANNP-EDG-T2		R116	1-218-965-11	RES,CHIP 10K 5%	1/16W
IC502	8-759-643-72	IC uPD17073GB-925-9EU		R119	1-218-977-11	RES,CHIP 100K 5%	1/16W
IC503	8-759-568-85	IC S-80821ANNP-EDJ-T2		R120	1-218-973-11	RES,CHIP 47K 5%	1/16W
		< JACK >		R123	1-218-977-11	RES,CHIP 100K 5%	1/16W
J301	1-793-513-21	JACK (♁)		R124	1-218-965-11	RES,CHIP 10K 5%	1/16W
		< COIL >		R125	1-218-953-11	RES,CHIP 1K 5%	1/16W
L101	1-416-903-41	COIL (WITH CORE) (FM TRACKING)		R126	1-218-971-11	RES,CHIP 33K 5%	1/16W
L102	1-414-693-11	INDUCTOR 150nH		R201	1-218-937-11	RES,CHIP 47 5%	1/16W
L103	1-406-493-41	COIL (AM OSC) (AM FREQUENCY COVERAGE)		R202	1-218-970-11	RES,CHIP 27K 5%	1/16W
L104	1-501-974-21	ANTENNA, FERRITE-ROD (MW) (AM TRACKING)		R203	1-218-965-11	RES,CHIP 10K 5%	1/16W
L105	1-412-977-11	INDUCTOR 0.68uH		R204	1-218-965-11	RES,CHIP 10K 5%	1/16W
L106	1-412-995-21	INDUCTOR 22uH		R301	1-218-959-11	RES,CHIP 3.3K 5%	1/16W
L301	1-412-987-31	INDUCTOR 4.7uH		R302	1-218-937-11	RES,CHIP 47 5%	1/16W
L302	1-412-987-31	INDUCTOR 4.7uH		R303	1-218-973-11	RES,CHIP 47K 5%	1/16W
L303	1-412-987-31	INDUCTOR 4.7uH		R304	1-218-977-11	RES,CHIP 100K 5%	1/16W
L501	1-412-995-21	INDUCTOR 22uH		R305	1-218-990-11	SHORT 0	
				R306	1-218-941-11	RES,CHIP 100 5%	1/16W
				R307	1-218-953-11	RES,CHIP 1K 5%	1/16W
				R308	1-218-941-11	RES,CHIP 100 5%	1/16W
				R309	1-218-937-11	RES,CHIP 47 5%	1/16W
				R310	1-218-973-11	RES,CHIP 47K 5%	1/16W
				R311	1-218-990-11	SHORT 0	
				R502	1-218-965-11	RES,CHIP 10K 5%	1/16W
				R503	1-218-989-11	RES,CHIP 1M 5%	1/16W
				R504	1-218-965-11	RES,CHIP 10K 5%	1/16W

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R505	1-218-965-11	RES,CHIP	10K 5% 1/16W			< TRANSFORMER >	
R506	1-218-989-11	RES,CHIP	1M 5% 1/16W				
R508	1-218-965-11	RES,CHIP	10K 5% 1/16W	T101	1-416-019-11	TRANSFORMER, IF (AM) (AM IF)	
R509	1-218-953-11	RES,CHIP	1K 5% 1/16W	T601	1-435-090-21	TRANSFORMER, DC-DC CONVERTER	
R510	1-218-965-11	RES,CHIP	10K 5% 1/16W			< VIBRATOR >	
R511	1-218-965-11	RES,CHIP	10K 5% 1/16W	X501	1-767-718-31	VIBRATOR, CRYSTAL (75kHz)	
R516	1-218-973-11	RES,CHIP	47K 5% 1/16W			*****	
R517	1-218-977-11	RES,CHIP	100K 5% 1/16W			MISCELLANEOUS	
R518	1-218-953-11	RES,CHIP	1K 5% 1/16W			*****	
R520	1-218-953-11	RES,CHIP	1K 5% 1/16W	15	1-694-596-11	CONDUCTIVE BOARD, CONNECTION	
R521	1-218-953-11	RES,CHIP	1K 5% 1/16W	L104	1-501-974-21	ANTENNA, FERRITE-ROD (MW)	
R522	1-218-953-11	RES,CHIP	1K 5% 1/16W			(AM TRACKING)	
R523	1-218-953-11	RES,CHIP	1K 5% 1/16W	LCD501	1-803-791-11	DISPLAY PANEL, LIQUID CRYSTAL	
R526	1-218-953-11	RES,CHIP	1K 5% 1/16W	SP401	1-529-187-12	SPEAKER (2.8cm)	
R528	1-218-953-11	RES,CHIP	1K 5% 1/16W			*****	
R529	1-218-953-11	RES,CHIP	1K 5% 1/16W			ACCESSORIES & PACKING MATERIALS	
R530	1-218-929-11	RES,CHIP	10 5% 1/16W			*****	
R531	1-218-965-11	RES,CHIP	10K 5% 1/16W			3-867-371-11	MANUAL, INSTRUCTION (JAPANESE,
R532	1-218-990-11	SHORT	0				CHINESE)
R533	1-218-965-11	RES,CHIP	10K 5% 1/16W			3-867-371-21	MANUAL, INSTRUCTION (ENGLISH, KOREAN)
R534	1-218-989-11	RES,CHIP	1M 5% 1/16W			8-953-301-93	RECEIVER, EAR MDR-E805LP
R535	1-218-965-11	RES,CHIP	10K 5% 1/16W			X-3329-657-1	ATTACHMENT
R536	1-218-965-11	RES,CHIP	10K 5% 1/16W				
R537	1-218-961-11	RES,CHIP	4.7K 5% 1/16W				
R538	1-218-965-11	RES,CHIP	10K 5% 1/16W				
R539	1-218-965-11	RES,CHIP	10K 5% 1/16W				
R540	1-218-965-11	RES,CHIP	10K 5% 1/16W				
R541	1-218-977-11	RES,CHIP	100K 5% 1/16W				
R542	1-218-989-11	RES,CHIP	1M 5% 1/16W				
R601	1-218-953-11	RES,CHIP	1K 5% 1/16W				
R602	1-218-937-11	RES,CHIP	47 5% 1/16W				
R603	1-218-957-11	RES,CHIP	2.2K 5% 1/16W				
R604	1-218-981-11	RES,CHIP	220K 5% 1/16W				
R605	1-218-977-11	RES,CHIP	100K 5% 1/16W				
R606	1-218-973-11	RES,CHIP	47K 5% 1/16W				
R607	1-218-989-11	RES,CHIP	1M 5% 1/16W				
		< VARIABLE RESISTOR >					
RV201	1-223-586-11	RES, ADJ, CARBON 10K (FM VCO)					
RV301	1-225-886-11	RES, VAR, CARBON 20K/20K (VOL ▲)					
		< SWITCH >					
S301	1-771-790-21	SWITCH, SLIDE (↵ → ⏏)					
S302	1-771-390-11	SWITCH, SLIDE (↵ → ⏏)					
S501	1-771-790-21	SWITCH, SLIDE (HOLD ▲)					
S502	1-771-138-21	SWITCH, KEY BOARD (1)					
S503	1-692-088-11	SWITCH, TACTILE (POWER)					
S504	1-771-568-21	SWITCH, LEVER SLIDE (JOG)(ENT/BAND)					
S505	1-771-138-21	SWITCH, KEY BOARD (5)					
S506	1-771-138-21	SWITCH, KEY BOARD (4)					
S507	1-771-138-21	SWITCH, KEY BOARD (NOISE CUT)					
S508	1-771-138-21	SWITCH, KEY BOARD (2)					
S509	1-771-138-21	SWITCH, KEY BOARD (6)					
S510	1-771-138-21	SWITCH, KEY BOARD (3)					
S511	1-692-088-11	SWITCH, TACTILE (MENU)					
S512	1-771-138-21	SWITCH, KEY BOARD (7)					