XDR-S40DBP

SERVICE MANUAL

Ver. 1.0 2013.01

AEP Model
UK Model
Australian Model

SPECIFICATIONS

Frequency range
DAB (Band-III): 174.928 MHz – 239.200 MHz
FM: 87.5 MHz – 108 MHz (0.05 MHz step)

Intermediate frequency
DAB (Band-III): 2.048 MHz
FM: 1.943 MHz

DAB (Band-III) frequency table (MHz)

Channel	Frequency	Channel	Frequency	Channel	Frequency
5A	174.928	8C	199.360	11C	220.352
5B	176.640	8D	201.072	11D	222.064
5C	178.352	9A	202.928	12A	223.936
5D	180.064	9B	204.640	12N	224.096
6A	181.936	9C	206.352	12B	225.648
6B	183.648	9D	208.064	12C	227.360
6C	185.360	10A	209.936	12D	229.072
6D	187.072	10N	210.096	13A	230.784
7A	188.928	10B	211.648	13B	232.496
7B	190.640	10C	213.360	13C	234.208
7C	192.352	10D	215.072	13D	235.776
7D	194.064	11A	216.928	13E	237.488
8A	195.936	11N	217.088	13F	239.200
8B	197.648	11B	218.640		

Speaker: Approx. 6.6 cm dia., 8Ω, monaural
Audio power output: 0.3 W
Output: ∩ (headphones) jack (ø 3.5 mm, stereo mini jack)
Power requirements: 6 V DC, four LR6 (size AA) alkaline batteries
External power source: DC IN 6V
Battery life (JEITA)*:
Approx. 13 hours for DAB, 10 hours for FM (Using Sony (LR6SG) alkaline batteries)
Approx. 11 hours for DAB, 9 hours for FM (Using Sony (NH-AA) Ni-MH batteries)
Dimensions: Approx. 180 mm × 95 mm × 36 mm (W/H/D) excl. projecting parts and controls
Mass: Approx. 445 g incl. batteries
Supplied accessories: AC adaptor (1)
* When listening through the speaker. Measured by JEITA (Japan Electronics and Information Technology Industries Association) standards. The actual battery life may vary depending on usage and circumstances.

Design and specifications are subject to change without notice.

- Operate the unit only on the power sources specified in "Specific ations. " For battery oper ation, use four LR6 (size AA) alkaline batteries. For AC operation, use only the supplied AC adaptor. Do not use any other type of AC adaptor.
- Failure to use the supplied AC adaptor may cause the unit to malfunction, as the polarity of the plugs of other manufacturers may be different.
- When operating the unit on batteries, it is recommended that you remove the AC adaptor from the wall outlet and the DC IN 6 V jack. Disconnect the plug of the external power source before operating the unit.

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.

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.

DIGITAL RADIO DAB/FM

9-893-659-01
2013A33-1

Sony Corporation
Published by Sony Techno Create Corporation

SONY®

SECTION 1
SERVICING NOTES

TABLE OF CONTENTS

Accessories are given in the last of the electrical parts list.

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

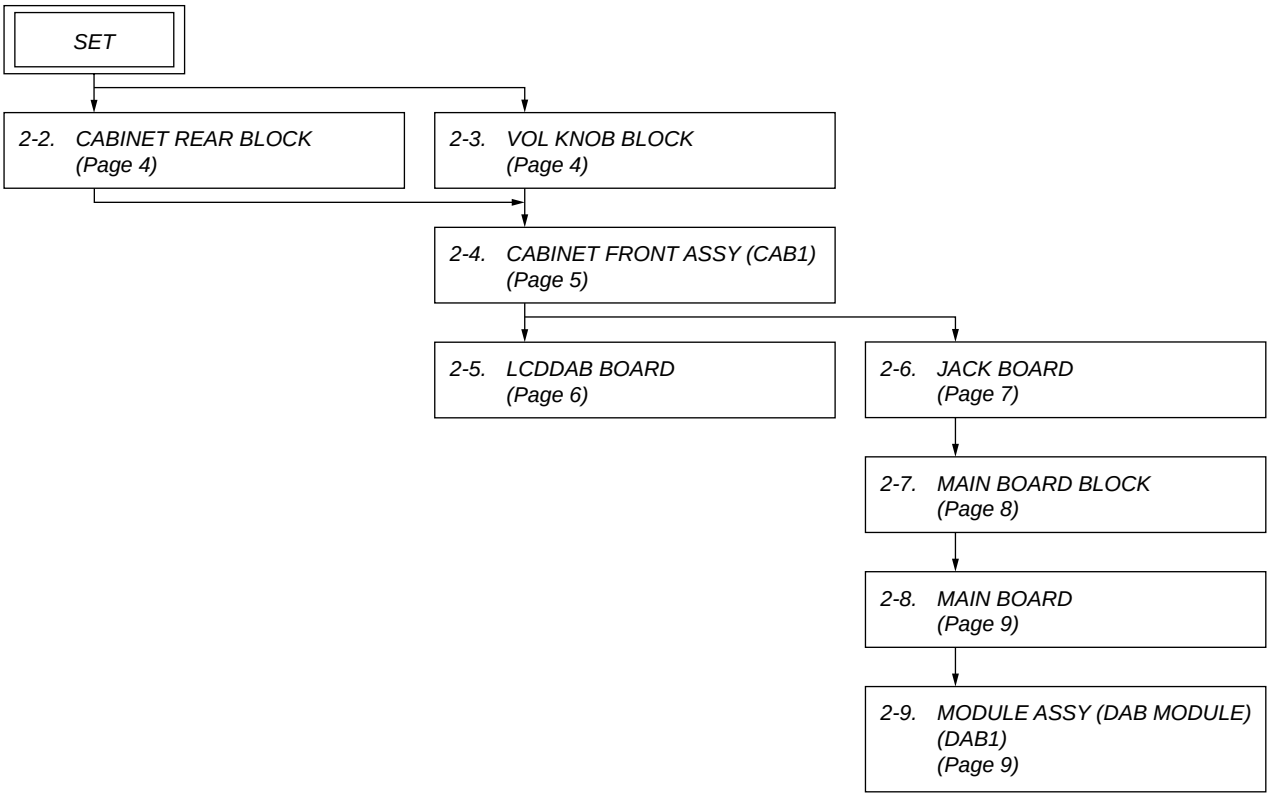
Unleaded solder has the following characteristics.

- 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 viscous (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.

SECTION 2
DISASSEMBLY

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

2-1. DISASSEMBLY FLOW



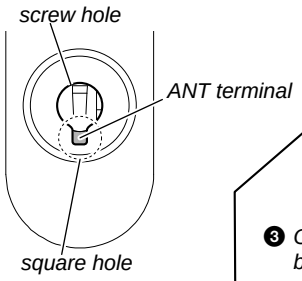
Note: Follow the disassembly procedure in the numerical order given.

2-2. CABINET REAR BLOCK

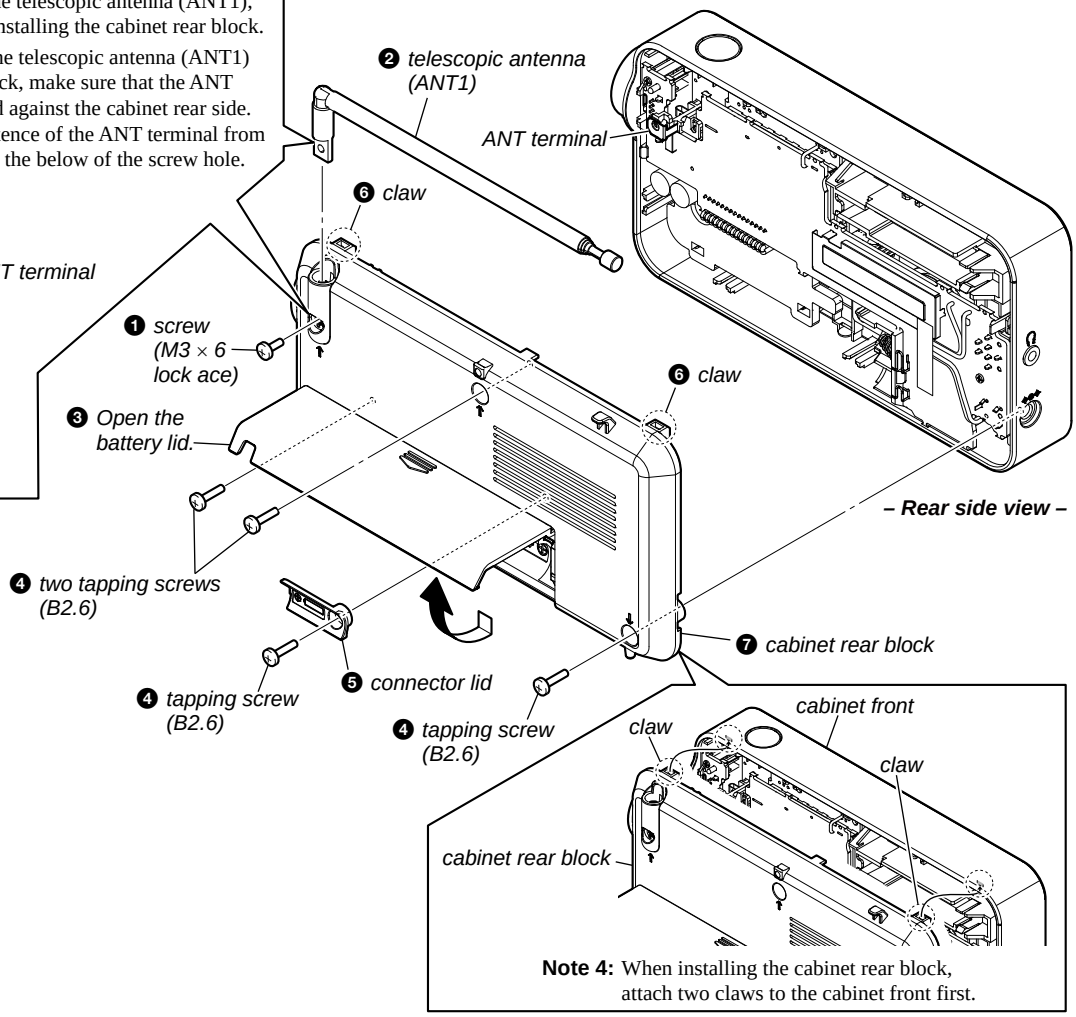
Note 1: Before removing the cabinet rear block, remove the always telescopic antenna (ANT1).

Note 2: When installing the telescopic antenna (ANT1), install it on after installing the cabinet rear block.

Note 3: Before inserting the telescopic antenna (ANT1) to cabinet rear block, make sure that the ANT terminal is pressed against the cabinet rear side. check for the existence of the ANT terminal from the square hole on the below of the screw hole.



– Rear side view –

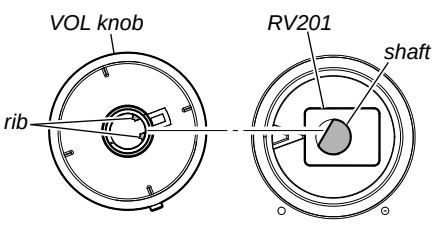


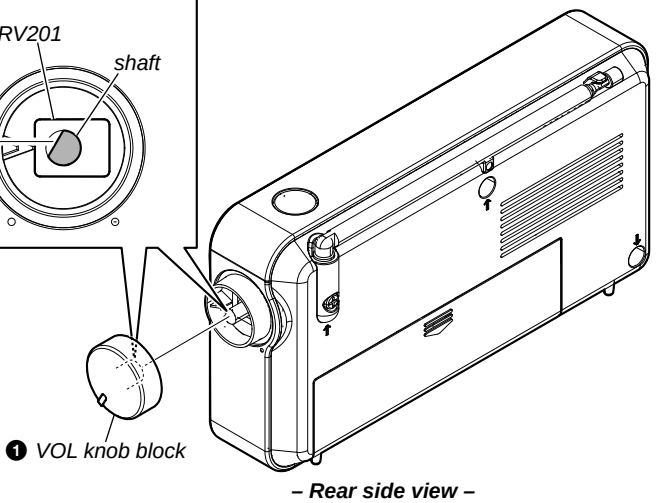
– Rear side view –

Note 4: When installing the cabinet rear block, attach two claws to the cabinet front first.

2-3. VOL KNOB BLOCK

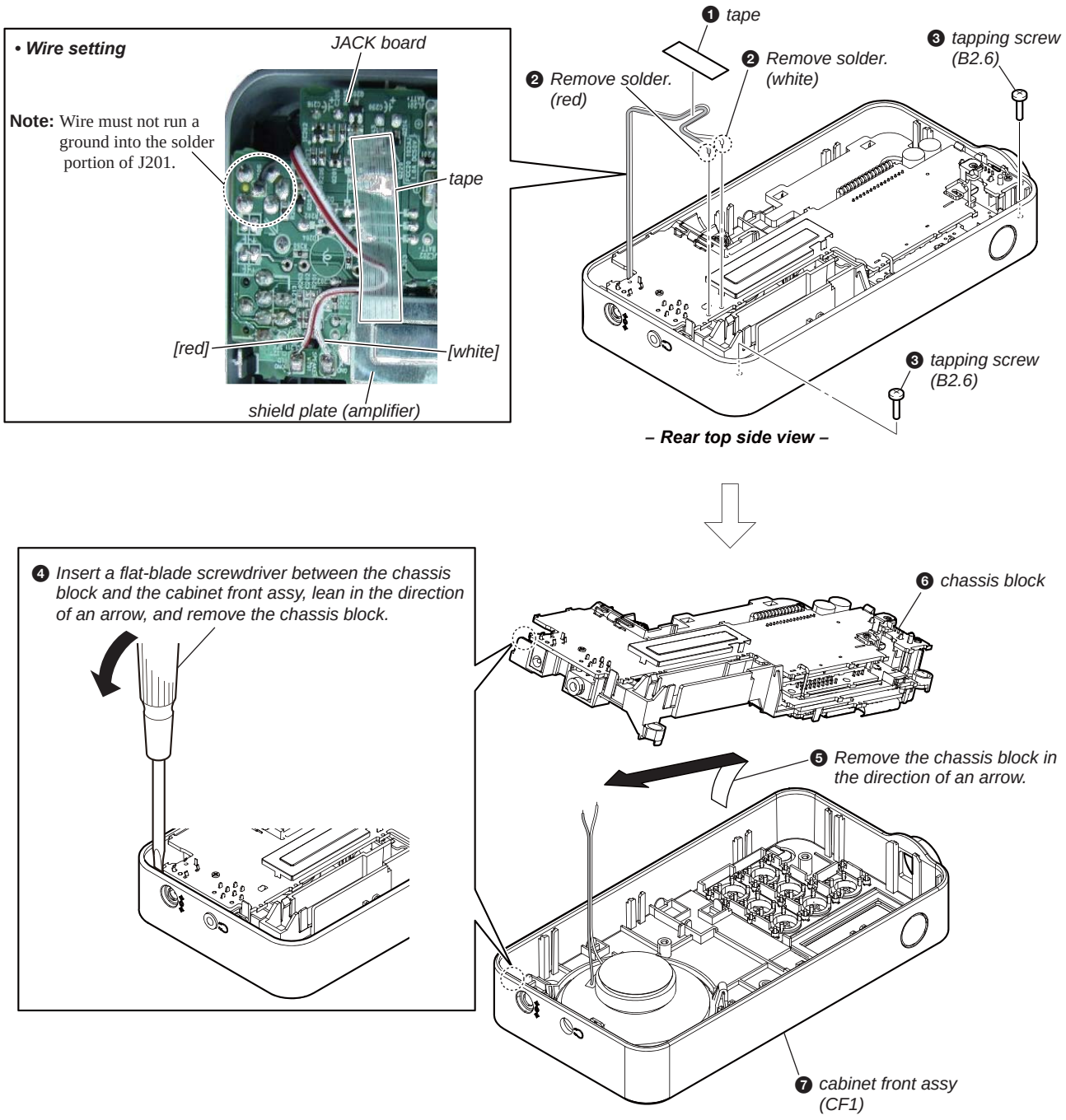
Note: When installing the VOL knob block, aline the two ribs of VOL knob and shaft of RV201.



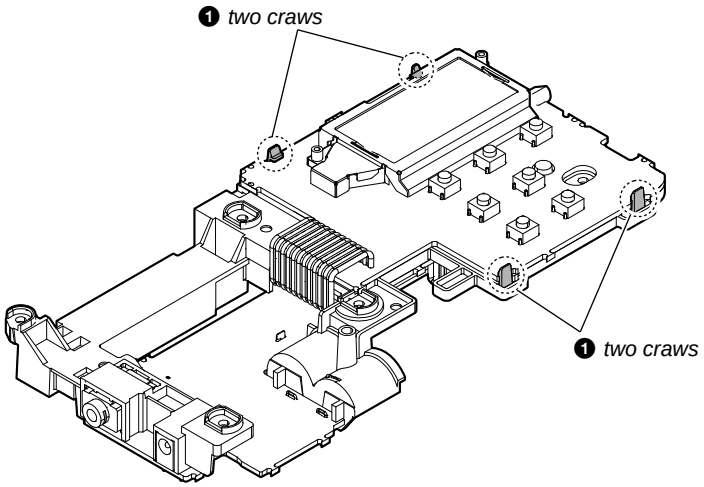


– Rear side view –

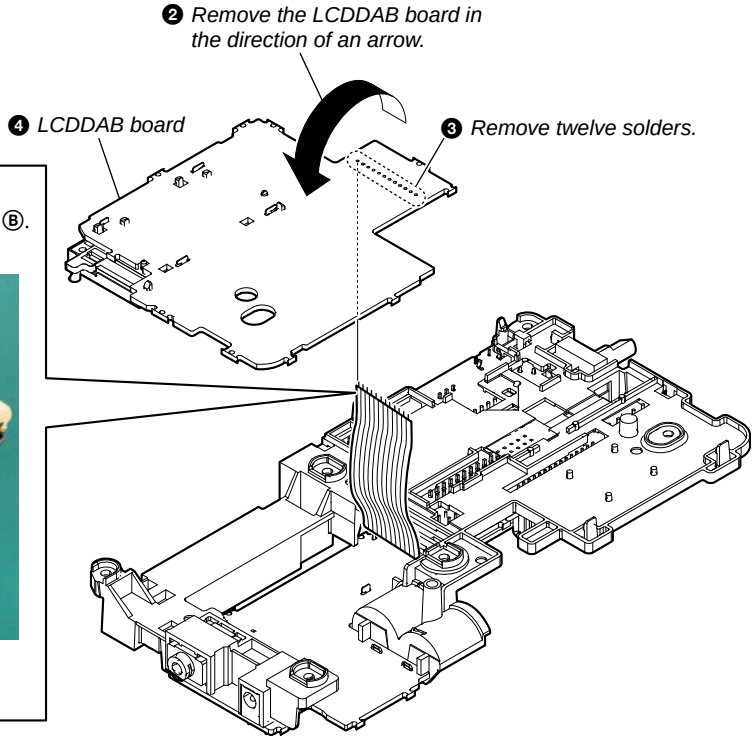
2-4. CABINET FRONT ASSY (CAB1)



2-5. LCDDAB BOARD

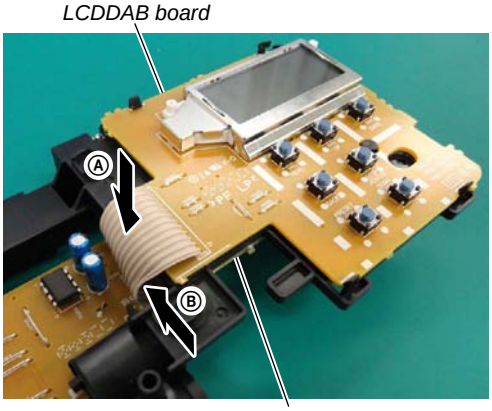


– Front bottom side view –



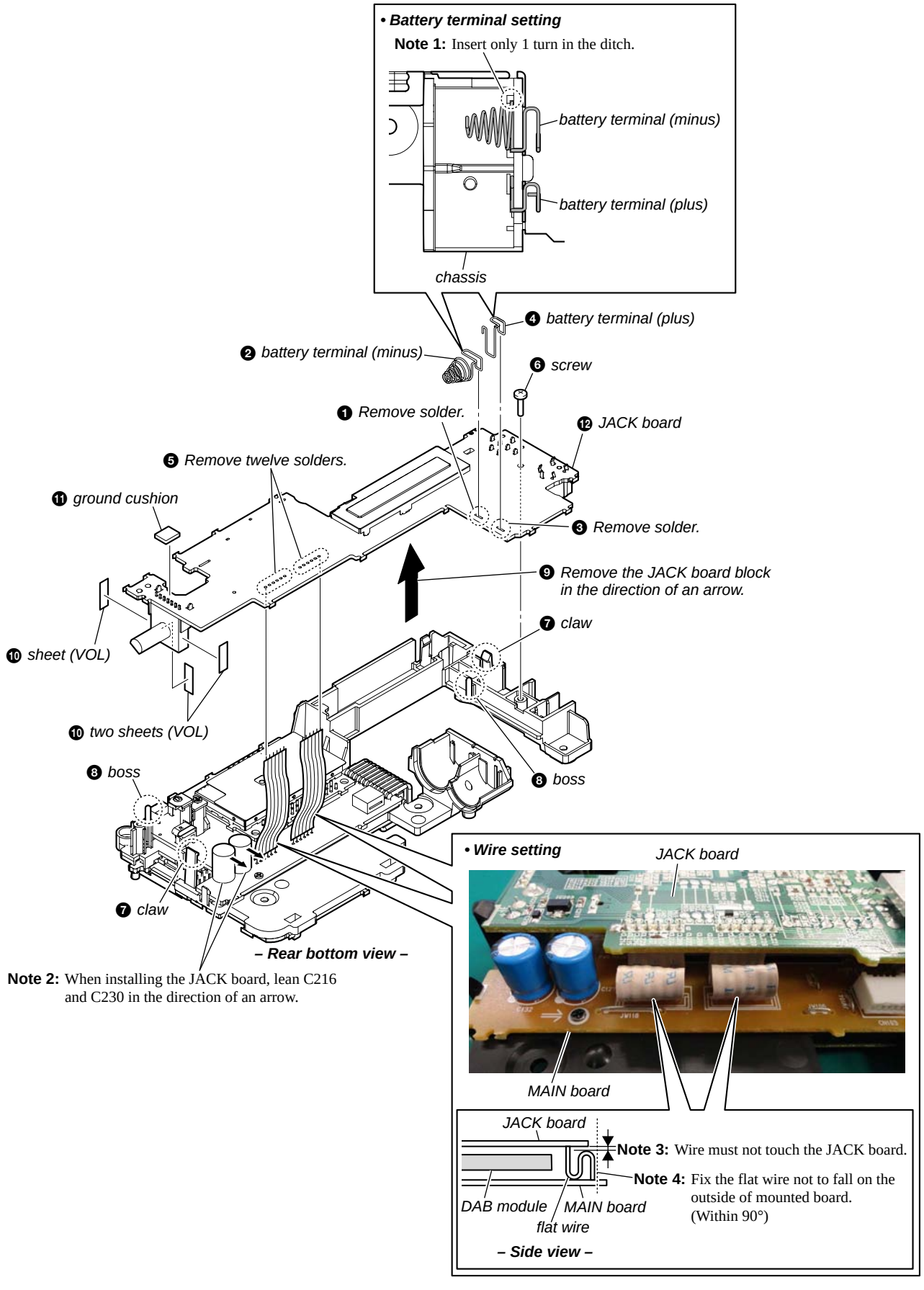
• ***Wire setting***

Note: Arrange a wire in order of arrow Ⓐ and arrow Ⓑ.



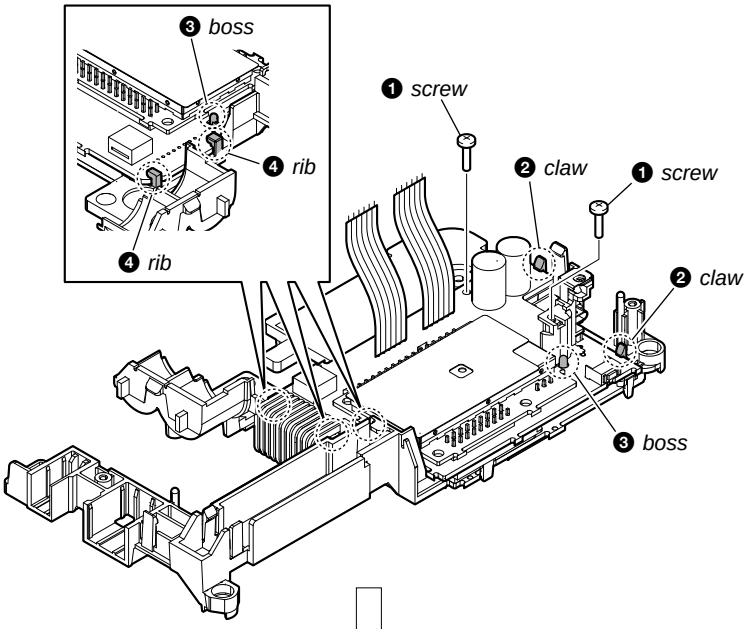
– Front bottom view –

2-6. JACK BOARD

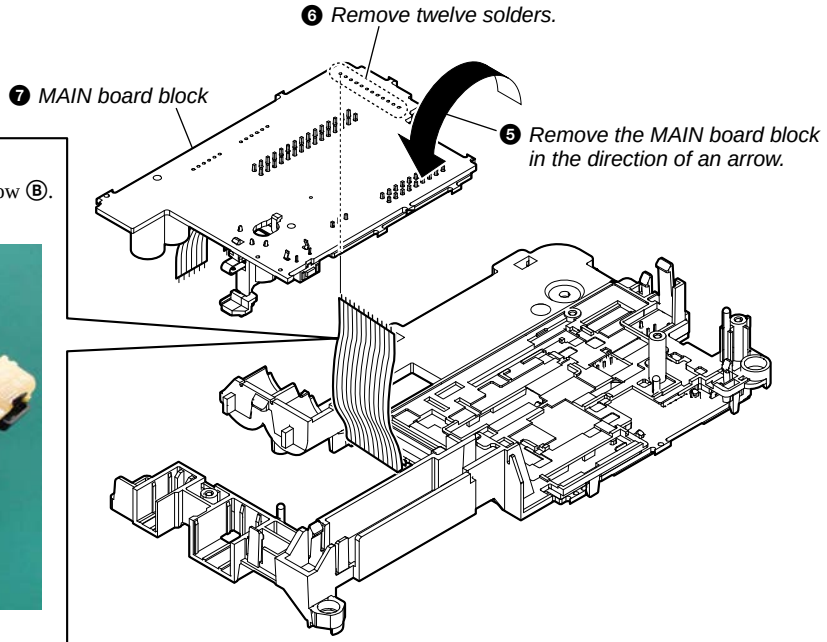


Note 2: When installing the JACK board, lean C216 and C230 in the direction of an arrow.

2-7. MAIN BOARD BLOCK

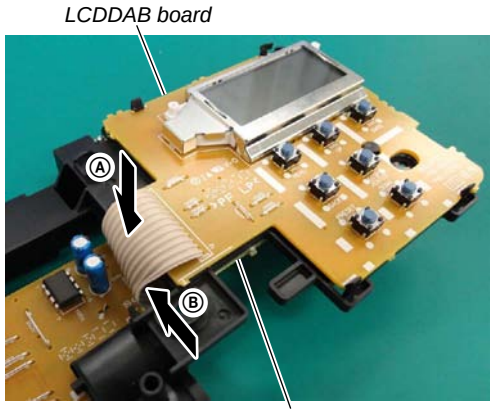


– Rear top side view –



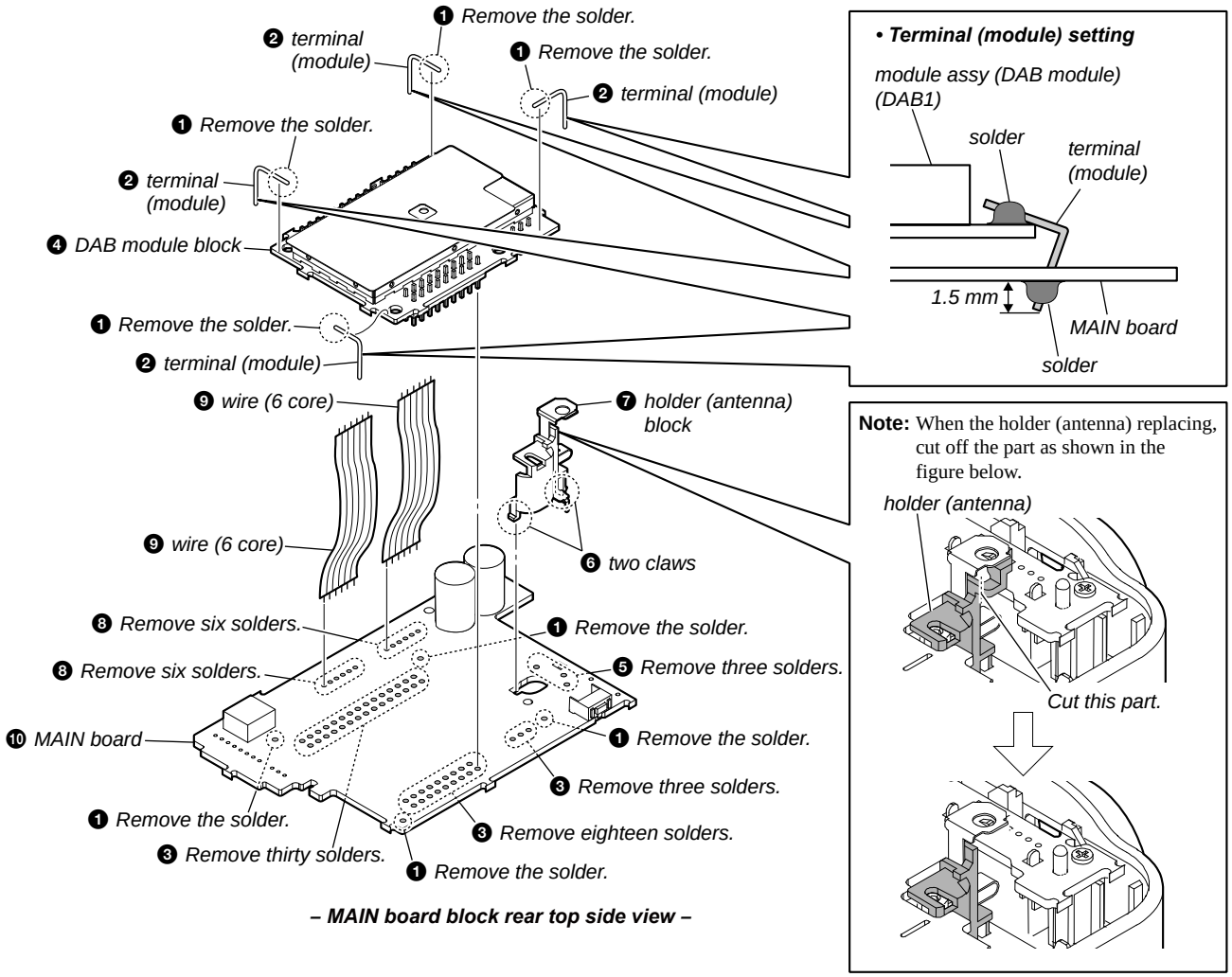
• Wire setting

Note: Arrange a wire in order of arrow Ⓐ and arrow Ⓑ.

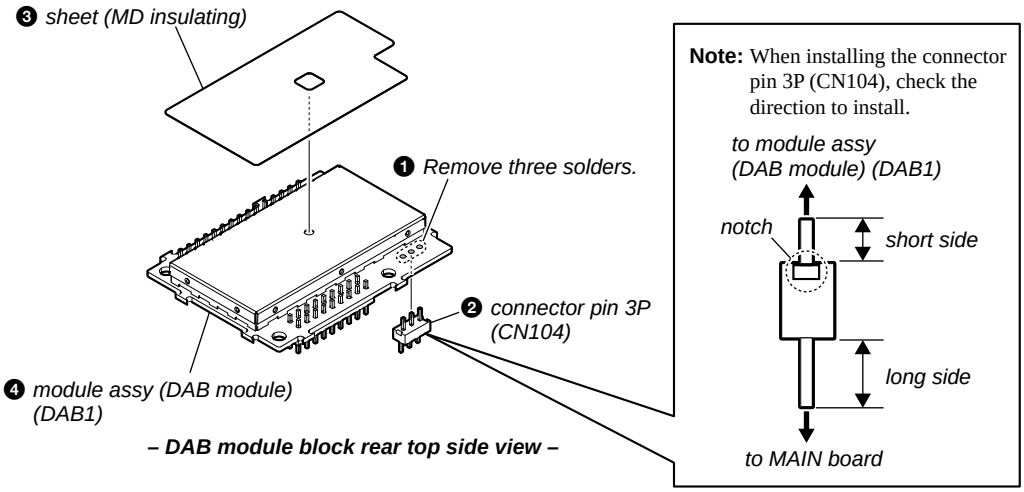


– Front bottom side view –

2-8. MAIN BOARD



2-9. MODULE ASSY (DAB MODULE) (DAB1)



SECTION 3
TEST MODE

1. PREPARATION OF TEST MODE

Prepare the following before checking test mode.

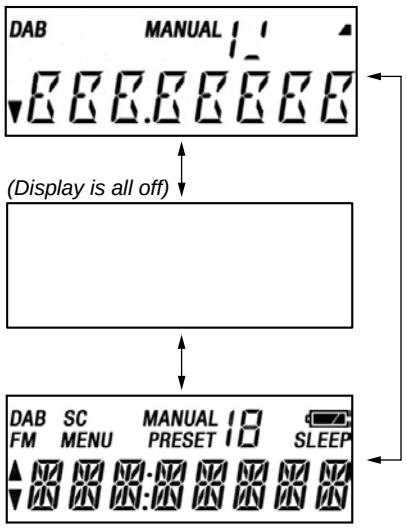
- AC adaptor
- Regulated DC power supply
- Dry battery 4PCS. (SIZE “AA”, IEC designation LR6)
- Dummy battery
- Headphone
- Signal generator
- Oscilloscope
- Loop antenna
- Ammeter

2. LCD CHECK

Procedure:

1. AC adaptor is inserted in DC jack (J201).
2. Press the [**I**/⏻] button to turn the power on.
3. Press the [DAB/FM] button, and checks that there is no “🔋” mark in the upper right of the liquid crystal display.
4. Press and hold the [**I**/⏻] button, while pressing the [MENU] button.
5. Release the [MENU] button ([**I**/⏻] button is holding).
6. Press the [▲], [▼] button in order, and release the [**I**/⏻] button. Enter the test mode and the “FW VER” appears.

7. Press the [▲] or [▼] buttons, select the “LCD CHK”, and press the [ENTER/DISP] button.
8. The back light is turned on, and press the [▲] or [▼] buttons to change the display pattern.
   (Displayed characters in the following figure are example)



   It checks that there are not contrast inconsistency and defective indication.
9. Pull out the AC adaptor.

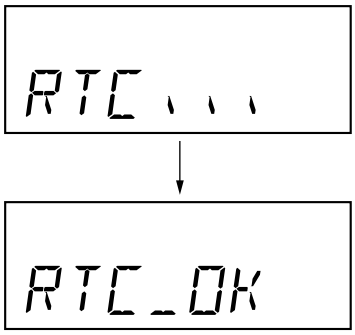
3. VERSION, RTC AND CURRENT CONSUMPTION CHECK

Procedure:

1. Dummy battery is set to the unit, and it connects with a regulated DC power supply, and outputs the voltage of 6V.
2. Telescopic antenna is set, and press the [**I**/⏻] button to turn the power on.
   Checks that there is “🔋” mark in the upper right of the liquid crystal display.
3. Press and hold the [**I**/⏻] button, while pressing the [MENU] button.
4. Release the [MENU] button ([**I**/⏻] button is holding).
5. Press the [▲], [▼] button in order, and release the [**I**/⏻] button. Enter the test mode and the “FW VER” appears.

6. Press the [ENTER/DISP] button to display the firmware version.
   (Displayed characters/values in the following figure are example)

7. Press the [BACK] button, return to the test menu.
8. Press the [▲] or [▼] buttons, select the “RTC CHK”, and press the [ENTER/DISP] button to start the RTC check.
   The message “RTC_OK” appears on the liquid crystal display.
   Press the [BACK] button, return to the test menu.

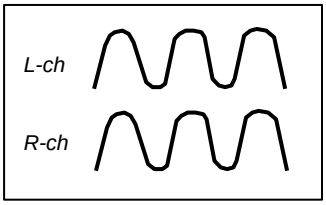


9. Press the [▲] or [▼] buttons, select the “INIT”, and press the [ENTER/DISP] button twice to turn the power off.
10. Press the [**I**/⏻] button to turn the power on.
11. Press the [DAB/FM] button, change to DAB function.
    Checks that current consumption is under 150 mA using an ammeter.
12. Press the [DAB/FM] button, change to FM function.
    Checks that current consumption is under 160 mA using an ammeter.
13. Press the [**I**/⏻] button to turn the power off.
    Checks that current consumption is under 30 μA using an ammeter.
14. Remove dummy battery.

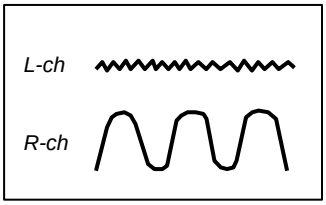
4. FM RECEPTION CHECK

Procedure:

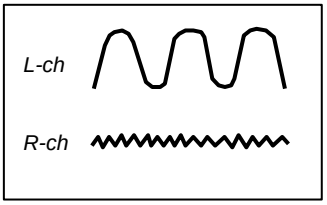
1. Input the following signal from signal generator to FM antenna input.
   Output frequency: 87.5 MHz
   Deviation: 75 kHz/M+S 27 %
   Modulation: 1 kHz
   Output level: 80 dBuV/m
2. L and R channels are outputted from the signal generator.
3. AC adaptor is inserted in DC jack (J201).
4. Press the [I/⏻] button to turn the power on.
5. Checks that there is no "📻" mark in the upper right of the liquid crystal display.
6. Press the [DAB/FM] button, change to FM function.
7. Press the [▲] or [▼] buttons, change to the frequency of "87.5 MHz".
8. [– VOL +] jog is turned to center, headphone is inserted in headphone jack (J202) and it checks that the sound is outputted from headphone.
   It checks that there is no defect. Monaural, reception cannot be carried out and sensitivity is weak, etc.
9. [– VOL +] jog is turned in the counterclockwise direction to a minimum. The sound from a headphone becomes small suitably, and it checks that there is no defective sound quality.
   (Sound is not outputted at the time of a minimum)
10. [– VOL +] jog is turned in the clockwise direction to a maximum. The sound from a headphone becomes large suitably, and it checks that there is no defective sound quality.
11. Headphone is pull out from the unit. It checks that the unit is struck 3 times lightly and the sound from a speaker does not have interruption and defective sound quality.
12. [– VOL +] jog is turned in the counterclockwise direction to a minimum. The sound from a speaker becomes small suitably, and it checks that there is no defective sound quality.
    (Sound is not outputted at the time of a minimum)
13. [– VOL +] jog is turned in the clockwise direction to a maximum. The sound from a speaker becomes large suitably, and it checks that there is no defective sound quality.
14. The audio connecting cord from an oscilloscope is inserted in the headphone jack (J202).
15. The stereo waveforms are checked with an oscilloscope.
    Example:



16. R channel is outputted from the signal generator, and R-channel waveform is checked with an oscilloscope.
    Example:



17. L channel is outputted from the signal generator, and L-channel waveform is checked with an oscilloscope.
    Example:



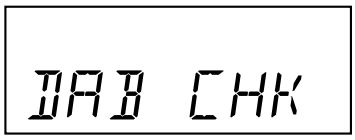
18. The audio connecting cord from an oscilloscope is pull out the headphone jack (J202).
19. Press the [I/⏻] button to turn the power off.
20. Pull out the AC adaptor.

5. DAB RECEPTION CHECK

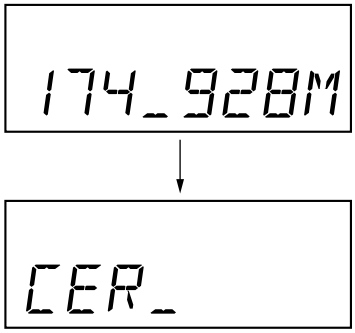
Procedure:

1. Input the following signal from signal generator to DAB antenna input.
   Output frequency: 174.928 MHz -48 dB/m
2. Equip this unit with dry battery.
3. Telescopic antenna is perpendicularly set to the unit.
4. Press the [**I**/⏻] button to turn the power on.
5. Press the [DAB/FM] button, and [– VOL +] jog is turned to center.
6. Press and hold the [**I**/⏻] button, while pressing the [MENU] button.
7. Release the [MENU] button ([**I**/⏻] button is holding).
8. Press the [▲], [▼] button in order, and release the [**I**/⏻] button. Enter the test mode and the “FW VER” appears.

9. Press the [▼] button 3 times to select the “DAB CHK”.



10. L and R channels are outputted from the signal generator. Press the [ENTER/DISP] button, the message “174_928M” appears on the liquid crystal display. Press the [ENTER/DISP] button again, the display will change to “CER_”.



11. Headphone is inserted in headphone jack (J202) and it checks that the sound is outputted from headphone.
    It checks that there is no defect. Reception cannot be carried out and sensitivity is weak, etc.
12. [– VOL +] jog is turned in the counterclockwise direction to a minimum. The sound from a headphone becomes small suitably, and it checks that there is no defective sound quality.
    (Sound is not outputted at the time of a minimum)
13. [– VOL +] jog is turned in the clockwise direction to a maximum. The sound from a headphone becomes large suitably, and it checks that there is no defective sound quality.
14. Headphone is pull out from the unit. It checks that the unit is struck 3 times lightly and the sound from a speaker does not have interruption and defective sound quality.
15. [– VOL +] jog is turned in the counterclockwise direction to a minimum. The sound from a speaker becomes small suitably, and it checks that there is no defective sound quality.
    (Sound is not outputted at the time of a minimum)
16. [– VOL +] jog is turned in the clockwise direction to a maximum. The sound from a speaker becomes large suitably, and it checks that there is no defective sound quality.
17. Remove battery.

6. INITIALIZE

After the completion of repair, execute initialization.
All the settings, presets and the list of receivable DAB stations will be deleted.

Procedure:

1. Press the [**I**/⏻] button to turn the power on.
2. Press the [MENU] button, and the enter the menu mode.
3. Press the [▲] or [▼] buttons, select the “RESET”, and press the [ENTER/DISP] button.
4. Press the [▲] or [▼] buttons, select the “OK”, and press the [ENTER/DISP] button.
5. The message “COMPLETE” appears on the liquid crystal display, initialization is completed, then turn the power off.

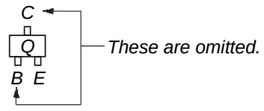
SECTION 4
DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Printed Wiring Boards.

Note:

- o——: Parts extracted from the component side.
- ——: Parts extracted from the conductor side.
- ▭: Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)
- Indication of transistor.



For Schematic Diagrams.

Note:

- 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.
- ▭: Panel designation.

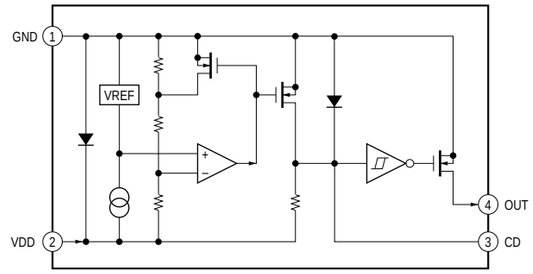
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬: B+ Line.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark: TUNER (FM)
- Voltages are taken with VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : AUDIO

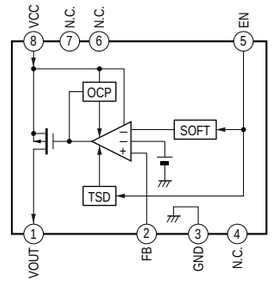
- **IC Block Diagrams**

– MAIN Board –

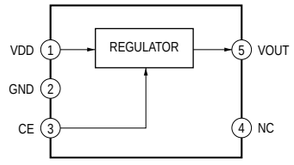
IC102 PST8436UL



IC103 BD00GA5WEFJ-E2

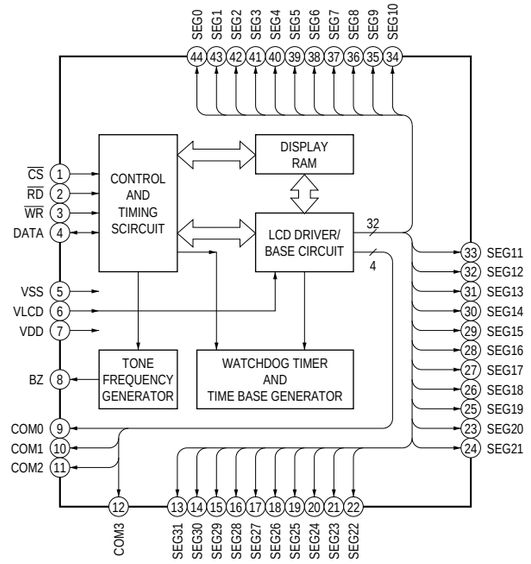


IC105 MM3291CNRE

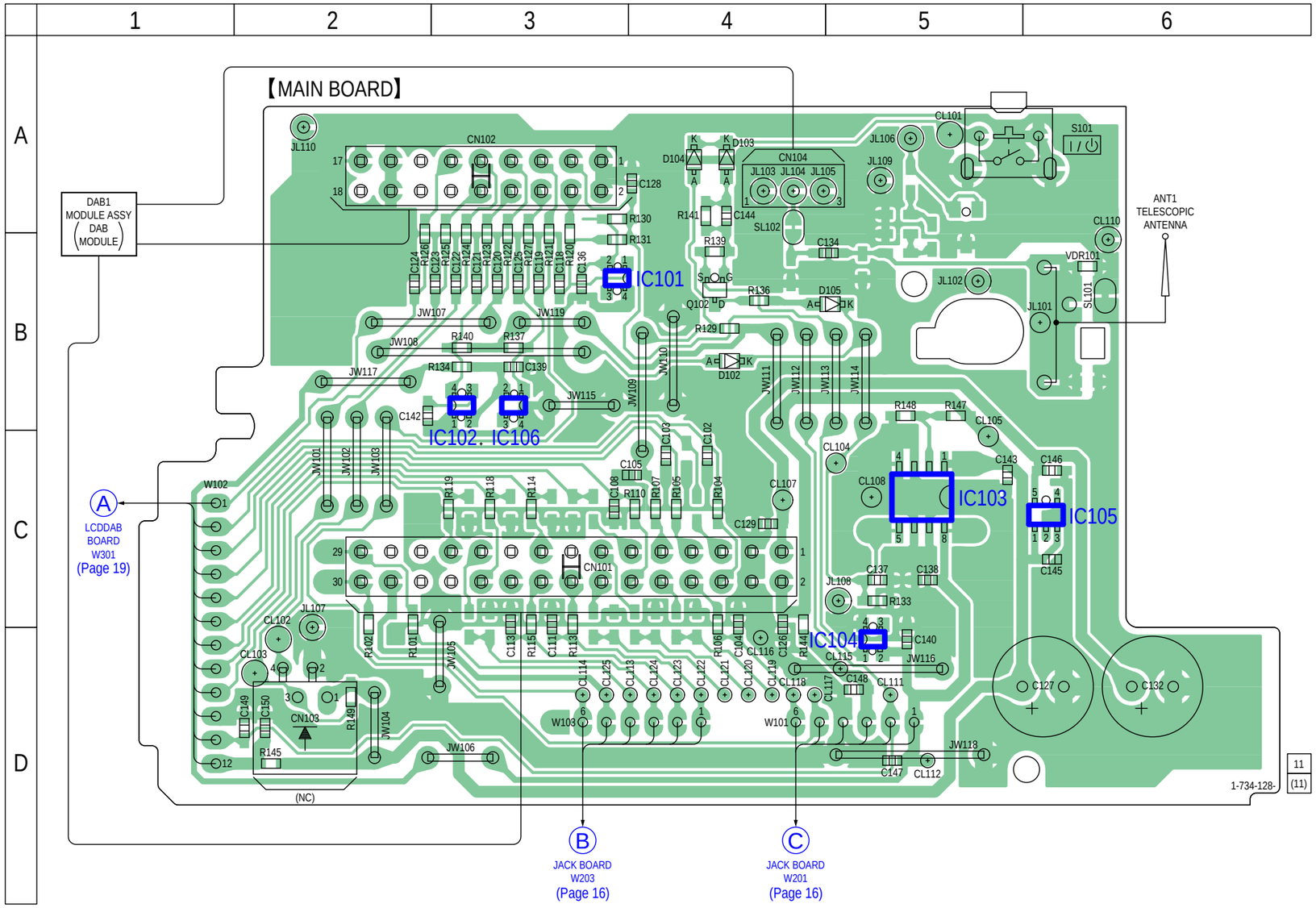


– LCD Board –

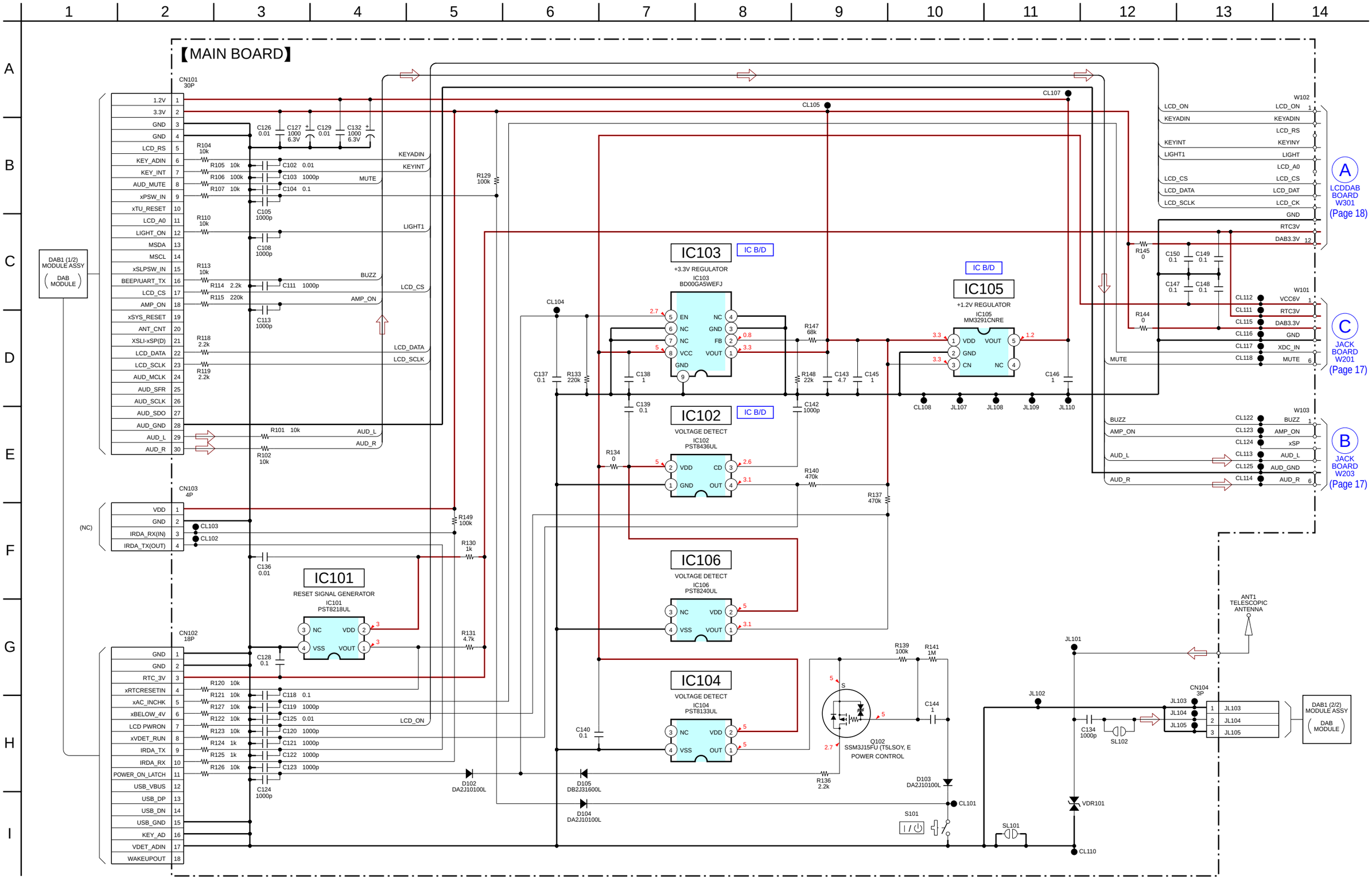
IC301 HT1621



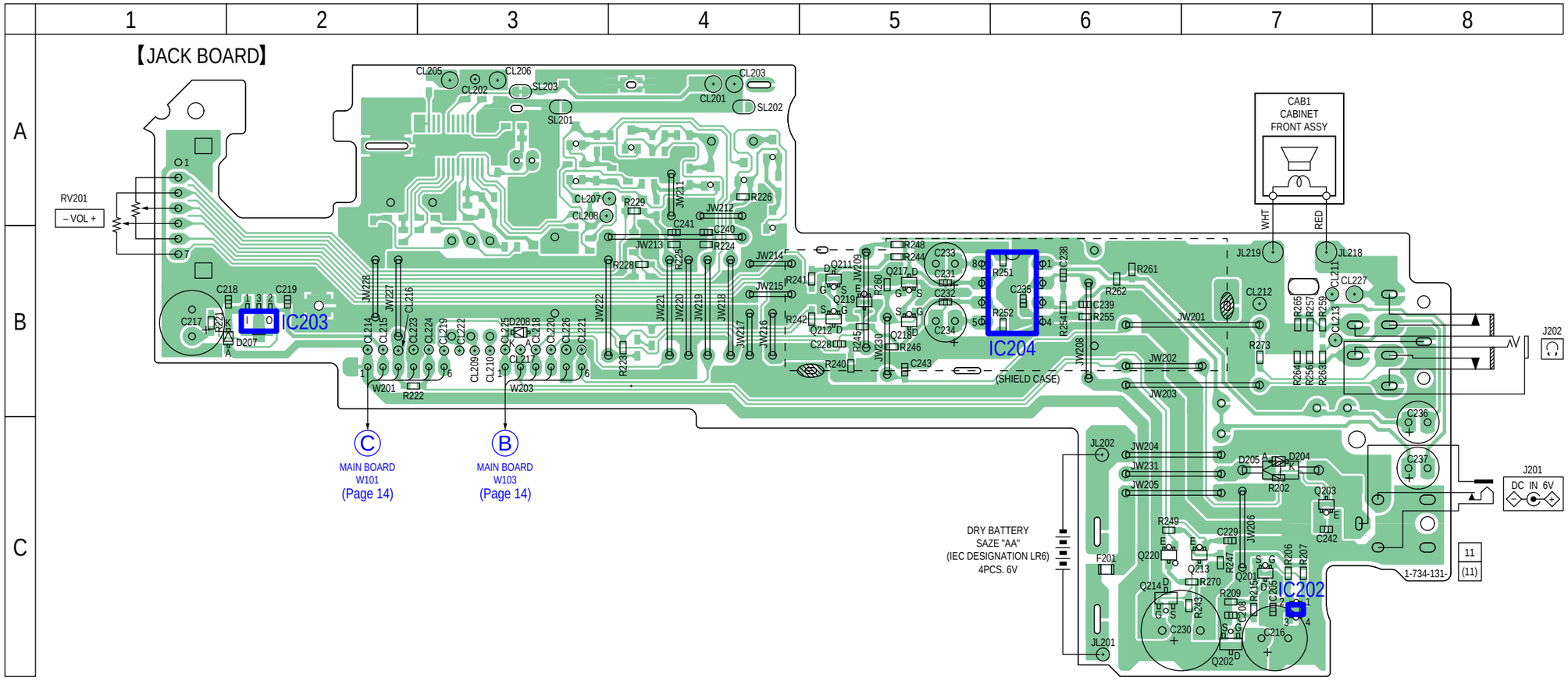
4-1. PRINTED WIRING BOARD - MAIN Board - • : Uses unleaded solder.



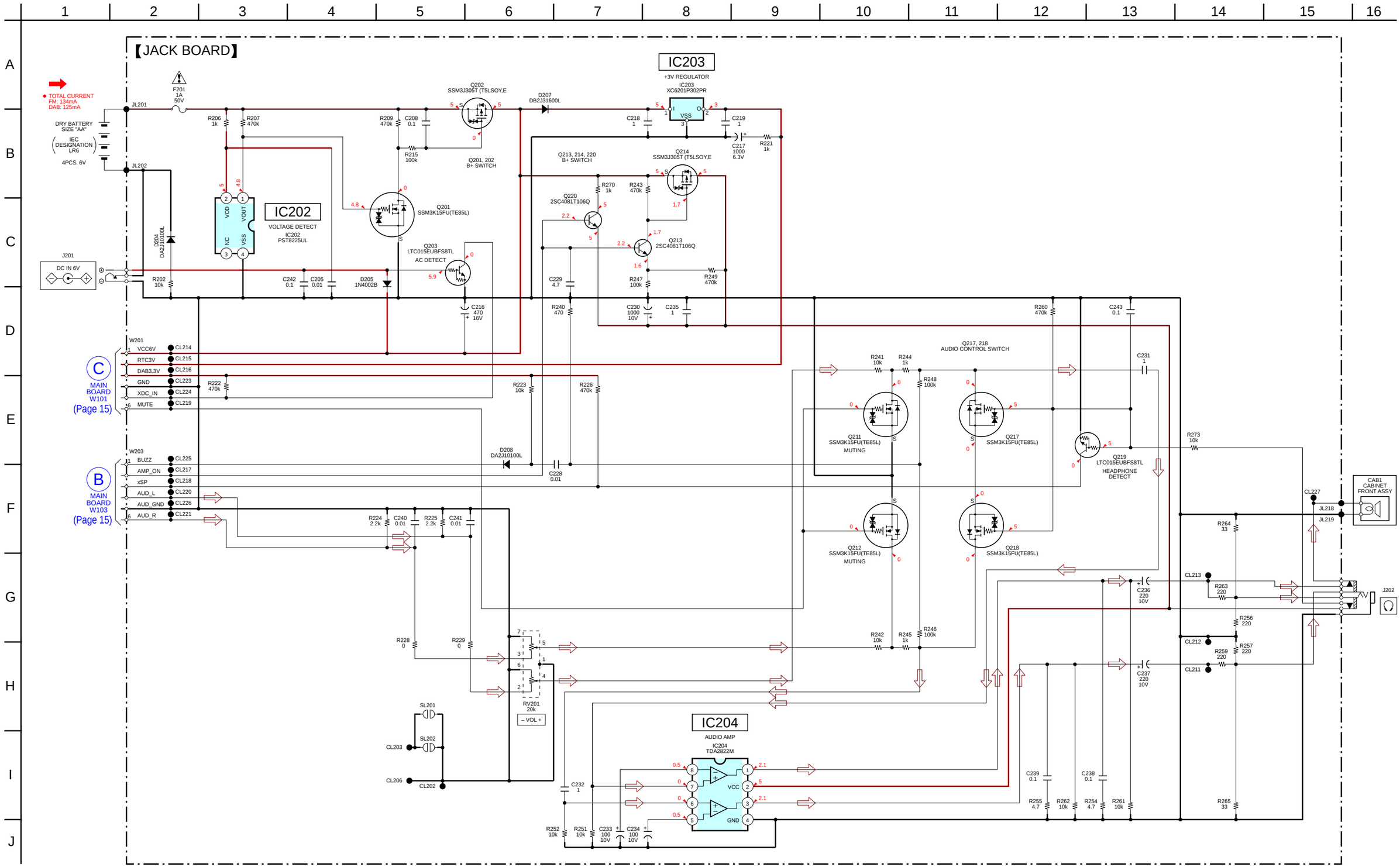
4-2. SCHEMATIC DIAGRAM - MAIN Board - • See page 13 for IC Block Diagrams.



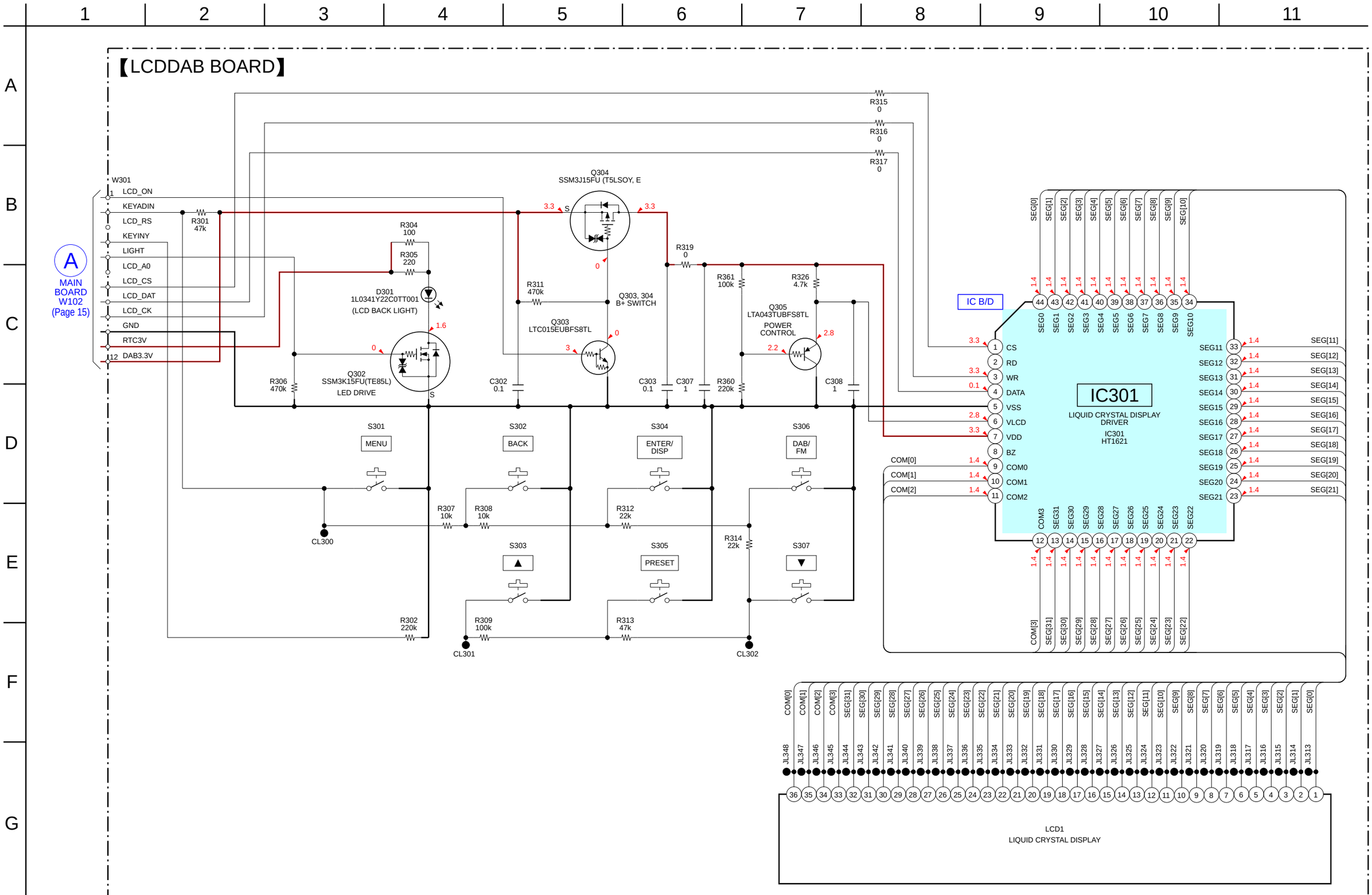
4-3. PRINTED WIRING BOARD - JACK Board - • : Uses unleaded solder.



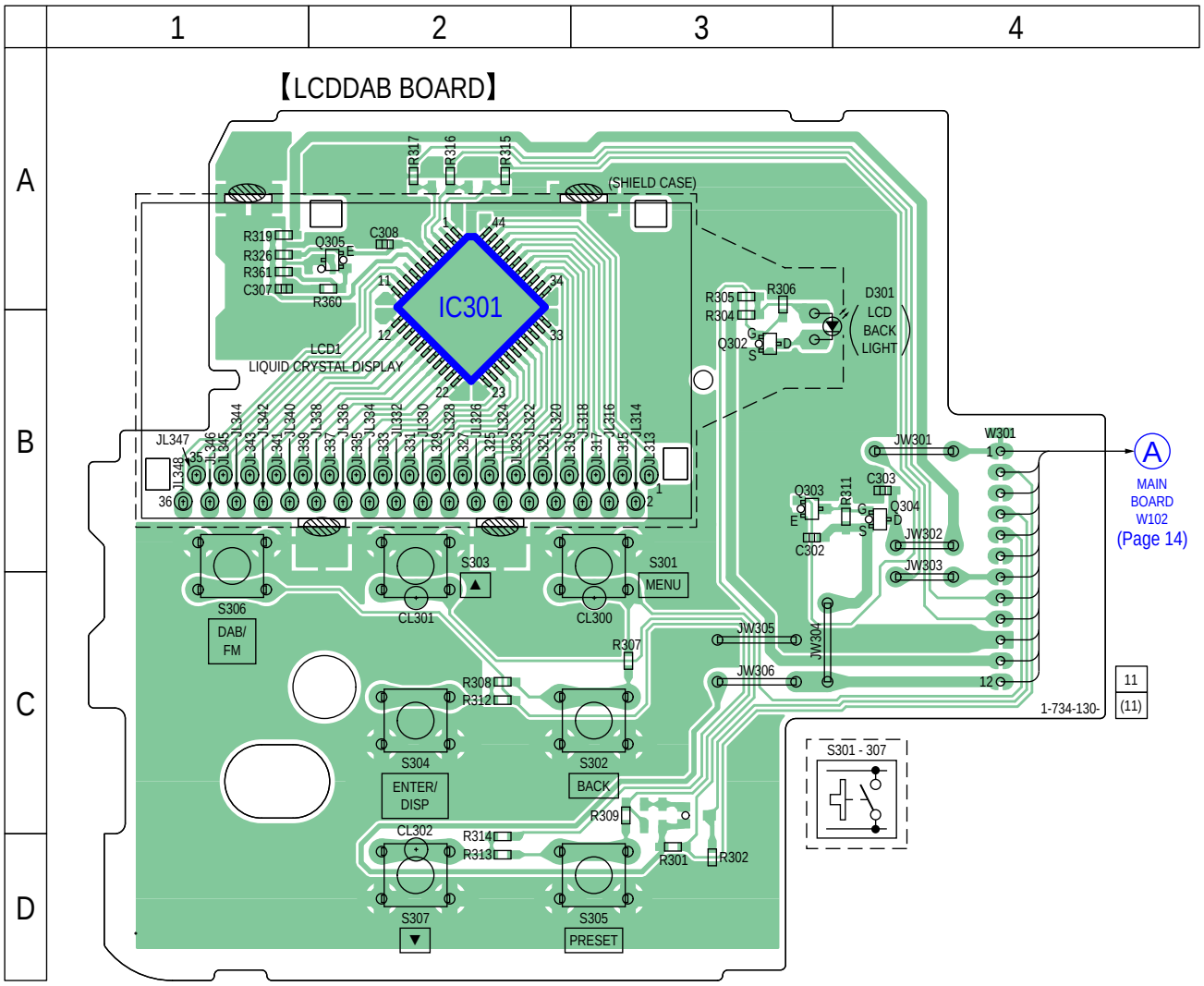
4-4. SCHEMATIC DIAGRAM - JACK Board -



4-5. SCHEMATIC DIAGRAM - LCDDAB Board - • See page 13 for IC Block Diagrams.



4-6. PRINTED WIRING BOARD - LCDDAB Board - • : Uses unleaded solder.



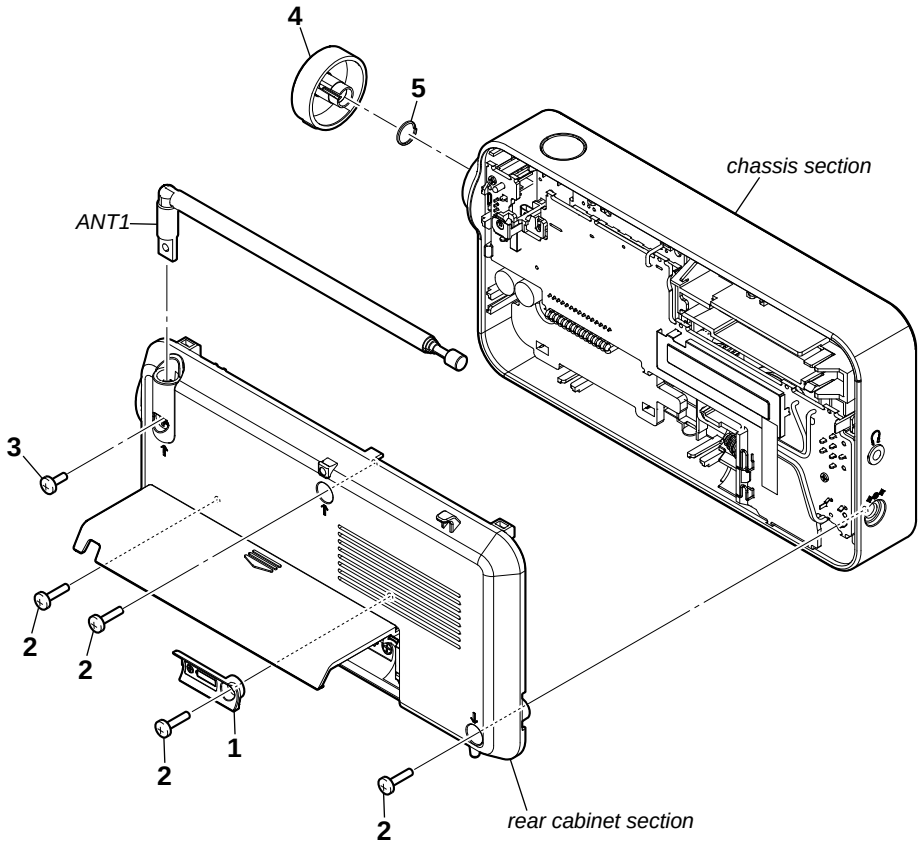
SECTION 5
EXPLODED VIEWS

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.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts Color ↑ Cabinet's Color

5-1. OVERALL SECTION

- Rear side view

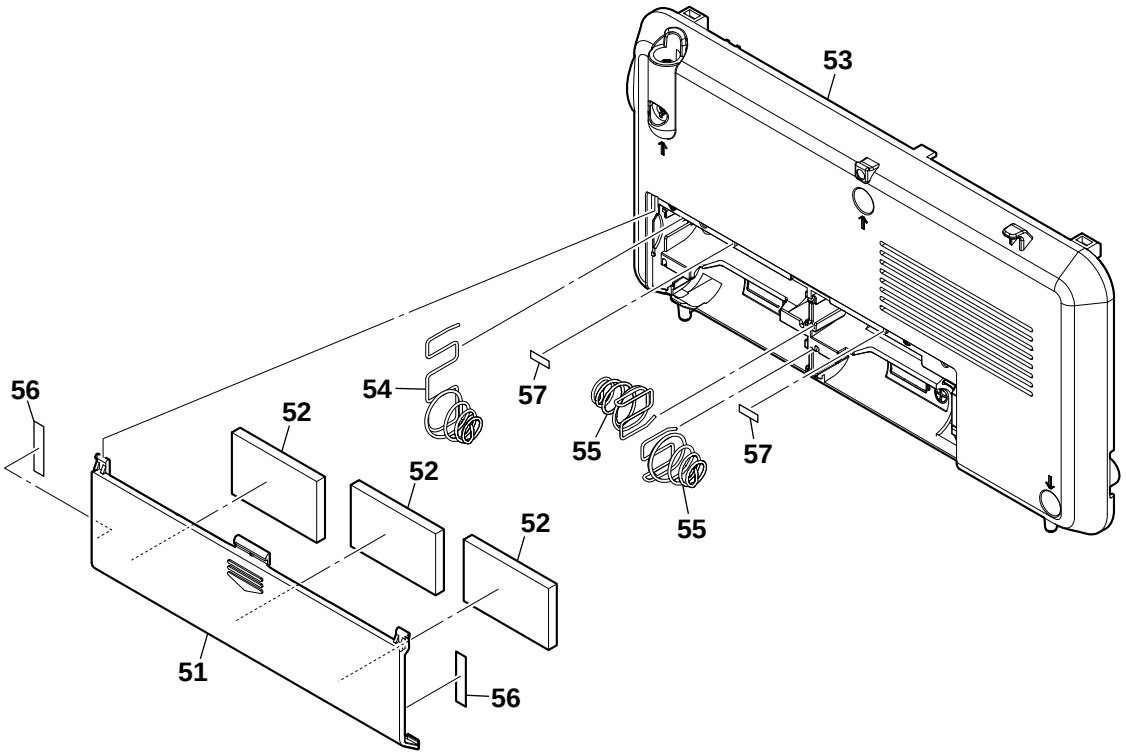


Ref. No.	Part No.	Description	Remark
1	4-437-698-01	LID, CONNECTOR	
2	3-252-827-01	SCREW (B2.6), (+) BV TAPPING (for WHITE, RED)	
2	3-252-827-11	SCREW (B2.6), (+) BV TAPPING (for BLACK)	
3	3-918-696-11	SCREW (M3X6 LOCK ACE) (for WHITE, RED)	
3	3-918-696-31	SCREW (M3X6 LOCK ACE) (for BLACK)	

Ref. No.	Part No.	Description	Remark
4	4-437-697-11	KNOB, VOL (for BLACK)	
4	4-437-697-21	KNOB, VOL (for WHITE)	
4	4-437-697-31	KNOB, VOL (for RED)	
5	4-461-252-01	SPRING, RING	
ANT1	1-754-856-21	ANTENNA, TELESCOPIC	

5-2. REAR CABINET SECTION

• Rear side view

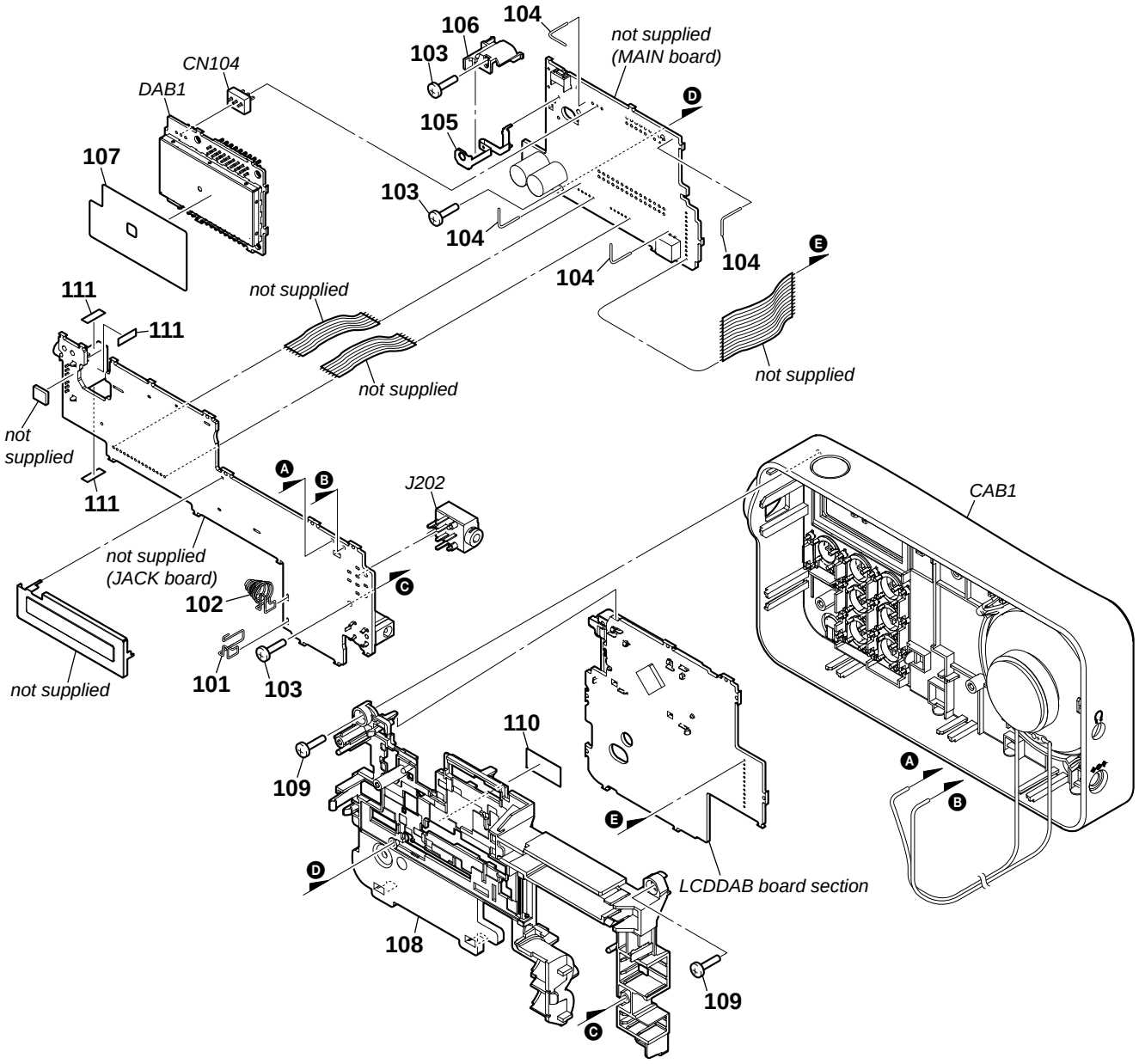


Ref. No.	Part No.	Description	Remark
51	4-437-686-04	LID, BATTERY CASE (for BLACK)	
51	4-437-686-24	LID, BATTERY CASE (for WHITE, RED)	
52	3-267-201-01	CUSHION (BATTERY CASE LID)	
53	4-437-685-01	CABINET, REAR (for BLACK)	
53	4-437-685-21	CABINET, REAR (for WHITE, RED)	
54	4-142-819-01	BATTERY TERMINAL + – (B)	
55	4-142-818-01	BATTERY TERMINAL + – (A)	

Ref. No.	Part No.	Description	Remark
56	4-459-425-01	CUSHION (BATTERY CASE LID A)	(for BLACK)
56	4-459-425-11	CUSHION (BATTERY CASE LID A)	(for WHITE, RED)
57	4-459-426-01	CUSHION (BATTERY CASE LID B)	(for BLACK)
57	4-459-426-11	CUSHION (BATTERY CASE LID B)	(for WHITE, RED)

5-3. CHASSIS SECTION

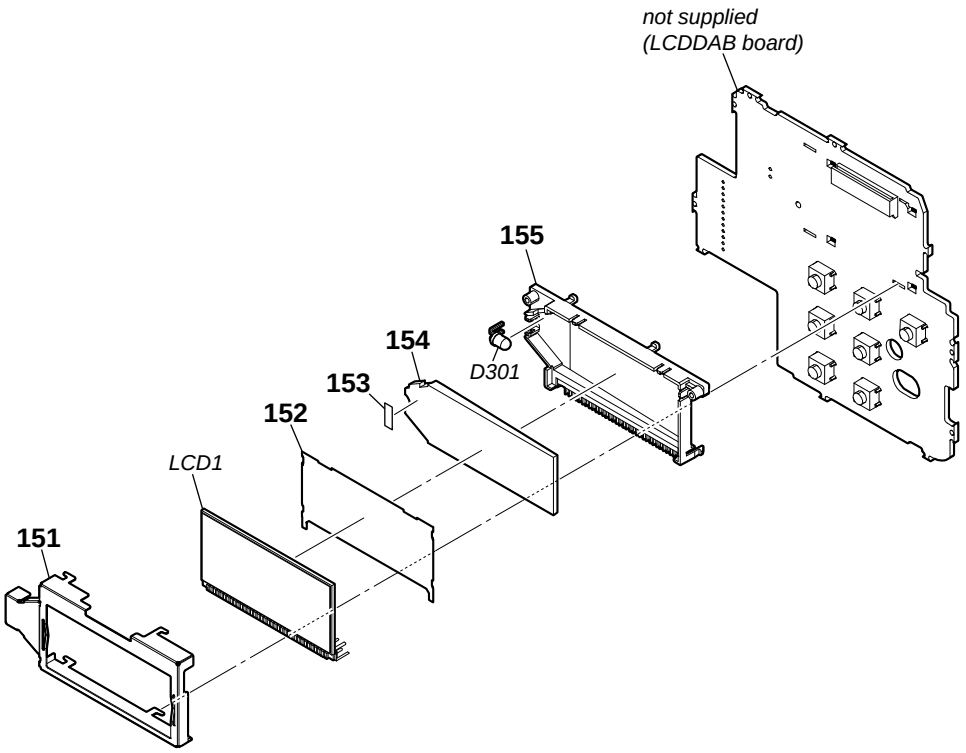
• Rear side view



Ref. No.	Part No.	Description	Remark
101	4-437-731-01	TERMINAL (PLUS), BATTERY	
102	4-437-732-01	TERMINAL (MINUS), BATTERY	
103	3-254-070-01	SCREW	
104	4-455-484-01	TERMINAL (MODULE)	
105	4-437-730-01	TERMINAL, ANT	
106	4-439-771-01	HOLDER (ANTENNA)	
107	4-441-303-01	SHEET (INSULATING, MD)	
108	4-437-687-01	CHASSIS	
109	3-252-827-01	SCREW (B2.6), (+) BV TAPPING (for WHITE, RED)	
109	3-252-827-11	SCREW (B2.6), (+) BV TAPPING (for BLACK)	
110	4-453-876-01	SHEET (INSULATING, TERMINAL)	

Ref. No.	Part No.	Description	Remark
111	4-462-207-01	SHEET (VOL)	
CAB1	A-1904-051-A	CABINET FRONT ASSY (Including SPEAKER, BUTTON) (for BLACK)	
CAB1	A-1908-256-A	CABINET FRONT ASSY (Including SPEAKER, BUTTON) (for WHITE)	
CAB1	A-1908-260-A	CABINET FRONT ASSY (Including SPEAKER, BUTTON) (for RED)	
CN104	1-843-530-11	PIN, CONNECTOR 3P	
DAB1	X-2587-128-1	MODULE ASSY (SVX) (DAB module)	
J202	1-785-448-21	JACK (🎧)	

5-4. LCDDAB BOARD SECTION



Ref. No.	Part No.	Description	Remark
151	4-437-728-01	CASE (LCD, DAB), SHIELD	
152	4-437-733-01	SHEET, DIFFUSION	
153	4-450-048-01	CUSHION (LIGHT GUIDE PLATE)	
154	4-437-692-01	PLATE, LIGHT GUIDE	
155	4-437-691-01	LCD HOLDER (DAB)	
D301	6-501-601-01	LED 1L0341Y22C0TT001 (LCD BACK LIGHT)	
LCD1	1-811-737-11	DISPLAY PANEL, LIQUID CRYSTAL	

JACK

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 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.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: µF
- 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.

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

Ref. No.	Part No.	Description			Remark
		JACK BOARD			
		**********			
		< CAPACITOR >			
C205	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C208	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C216	1-126-935-11	ELECT	470uF	20%	16V
C217	1-126-916-11	ELECT	1000uF	20%	6.3V
C218	1-112-298-91	CERAMIC CHIP	1uF	10%	16V
C219	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C228	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C229	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V
C230	1-126-926-11	ELECT	1000uF	20%	10V
C231	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C232	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C233	1-104-665-11	ELECT	100uF	20%	25V
C234	1-104-665-11	ELECT	100uF	20%	25V
C235	1-112-298-91	CERAMIC CHIP	1uF	10%	16V
C236	1-126-934-11	ELECT	220uF	20%	16V
C237	1-126-934-11	ELECT	220uF	20%	16V
C238	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C239	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C240	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C241	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C242	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C243	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< DIODE >			
D204	6-502-961-01	DIODE DA2J10100L			
D205	8-719-063-79	DIODE 1N4002B			
D207	6-503-716-01	DIODE DB2J31600L			
D208	6-502-961-01	DIODE DA2J10100L			
		< FUSE >			
⚠ F201	1-523-132-31	FUSE (1 A/50 V)			
		< IC >			
IC202	6-715-431-01	IC PST8225UL			
IC203	6-707-748-01	IC XC6201P302PR			
IC204	8-759-502-21	IC TDA2822M			
		< JACK >			
J201	1-580-681-21	JACK, DC (POLARITY UNIFIED TYPE) (DC IN 6V ⟐⊖⟐)			
J202	1-785-448-21	JACK (🎧)			

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q201	6-550-742-01	FET	SSM3K15FU (TE85L)		
Q202	6-552-262-01	FET	SSM3J305T (T5LSOY, E		
Q203	6-552-433-01	TRANSISTOR	DRC5115E0L		
Q211	6-550-742-01	FET	SSM3K15FU (TE85L)		
Q212	6-550-742-01	FET	SSM3K15FU (TE85L)		
Q213	8-729-905-37	TRANSISTOR	2SC4081T106Q		
Q214	6-552-262-01	FET	SSM3J305T (T5LSOY, E		
Q217	6-550-742-01	FET	SSM3K15FU (TE85L)		
Q218	6-550-742-01	FET	SSM3K15FU (TE85L)		
Q219	6-552-433-01	TRANSISTOR	DRC5115E0L		
Q220	8-729-905-37	TRANSISTOR	2SC4081T106Q		
		< RESISTOR >			
R202	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-821-11	METAL CHIP	1K	5%	1/10W
R207	1-216-853-11	METAL CHIP	470K	5%	1/10W
R209	1-216-853-11	METAL CHIP	470K	5%	1/10W
R215	1-216-845-11	METAL CHIP	100K	5%	1/10W
R221	1-216-821-11	METAL CHIP	1K	5%	1/10W
R222	1-216-853-11	METAL CHIP	470K	5%	1/10W
R223	1-216-833-11	METAL CHIP	10K	5%	1/10W
R224	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R225	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R226	1-216-853-11	METAL CHIP	470K	5%	1/10W
R228	1-216-864-11	SHORT CHIP	0		
R229	1-216-864-11	SHORT CHIP	0		
R240	1-216-817-11	METAL CHIP	470	5%	1/10W
R241	1-216-833-11	METAL CHIP	10K	5%	1/10W
R242	1-216-833-11	METAL CHIP	10K	5%	1/10W
R243	1-216-853-11	METAL CHIP	470K	5%	1/10W
R244	1-216-821-11	METAL CHIP	1K	5%	1/10W
R245	1-216-821-11	METAL CHIP	1K	5%	1/10W
R246	1-216-845-11	METAL CHIP	100K	5%	1/10W
R247	1-216-845-11	METAL CHIP	100K	5%	1/10W
R248	1-216-845-11	METAL CHIP	100K	5%	1/10W
R249	1-216-853-11	METAL CHIP	470K	5%	1/10W
R251	1-216-833-11	METAL CHIP	10K	5%	1/10W
R252	1-216-833-11	METAL CHIP	10K	5%	1/10W
R254	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R255	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R256	1-216-813-11	METAL CHIP	220	5%	1/10W
R257	1-216-813-11	METAL CHIP	220	5%	1/10W
R259	1-216-813-11	METAL CHIP	220	5%	1/10W

Ref. No.	Part No.	Description			Remark
R260	1-216-853-11	METAL CHIP	470K	5%	1/10W
R261	1-216-833-11	METAL CHIP	10K	5%	1/10W
R262	1-216-833-11	METAL CHIP	10K	5%	1/10W
R263	1-216-813-11	METAL CHIP	220	5%	1/10W
R264	1-216-803-11	METAL CHIP	33	5%	1/10W
R265	1-216-803-11	METAL CHIP	33	5%	1/10W
R270	1-216-821-11	METAL CHIP	1K	5%	1/10W
R273	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< VARIABLE RESISTOR >			
RV201	1-227-774-21	RES, VAR, CARBON 20K/20K (– VOL +)			

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		LCDDAB BOARD			
		**********			
	4-437-691-01	LCD HOLDER (DAB)			
	4-437-692-01	PLATE, LIGHT GUIDE			
	4-437-728-01	CASE (LCD, DAB), SHIELD			
	4-437-733-01	SHEET, DIFFUSION			
	4-450-048-01	CUSHION (LIGHT GUIDE PLATE)			
		< CAPACITOR >			
C302	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C303	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C307	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C308	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
		< LED >			
D301	6-501-601-01	LED 1L0341Y22C0TT001 (LCD BACK LIGHT)			
		< IC >			
IC301	6-715-273-01	IC HT1621			
		< LIQUID CRYSTAL DISPLAY >			
LCD1	1-811-737-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< TRANSISTOR >			
Q302	6-550-742-01	FET	SSM3K15FU (TE85L)		
Q303	6-552-433-01	TRANSISTOR	DRC5115E0L		
Q304	6-552-237-01	FET	SSM3J15FU (T5LSOY, E		
Q305	6-552-931-01	TRANSISTOR	LTA043TUBFS8TL		
		< RESISTOR >			
R301	1-216-841-11	METAL CHIP	47K	5%	1/10W
R302	1-216-849-11	METAL CHIP	220K	5%	1/10W
R304	1-216-809-11	METAL CHIP	100	5%	1/10W
R305	1-216-813-11	METAL CHIP	220	5%	1/10W
R306	1-216-853-11	METAL CHIP	470K	5%	1/10W
R307	1-216-833-11	METAL CHIP	10K	5%	1/10W
R308	1-216-833-11	METAL CHIP	10K	5%	1/10W
R309	1-216-845-11	METAL CHIP	100K	5%	1/10W
R311	1-216-853-11	METAL CHIP	470K	5%	1/10W
R312	1-216-837-11	METAL CHIP	22K	5%	1/10W
R313	1-216-841-11	METAL CHIP	47K	5%	1/10W
R314	1-216-837-11	METAL CHIP	22K	5%	1/10W
R315	1-216-864-11	SHORT CHIP	0		
R316	1-216-864-11	SHORT CHIP	0		
R317	1-216-864-11	SHORT CHIP	0		
R319	1-216-864-11	SHORT CHIP	0		
R326	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R360	1-216-849-11	METAL CHIP	220K	5%	1/10W
R361	1-216-845-11	METAL CHIP	100K	5%	1/10W
		< SWITCH >			
S301	1-554-937-11	SWITCH, KEY BOARD (MENU)			
S302	1-554-937-11	SWITCH, KEY BOARD (BACK)			
S303	1-554-937-11	SWITCH, KEY BOARD (▲)			
S304	1-554-937-11	SWITCH, KEY BOARD (ENTER/DISP)			
S305	1-554-937-11	SWITCH, KEY BOARD (PRESET)			
S306	1-554-937-11	SWITCH, KEY BOARD (DAB/FM)			
S307	1-554-937-11	SWITCH, KEY BOARD (▼)			

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		MAIN BOARD			
		**********			
	4-437-730-01	TERMINAL, ANT			
	4-439-771-01	HOLDER (ANTENNA)			
	4-441-303-01	SHEET (INSULATING, MD)			
	4-455-484-01	TERMINAL (MODULE)			
		< CAPACITOR >			
C102	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C103	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C104	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C105	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C108	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C111	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C113	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C118	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C119	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C120	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C121	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C122	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C123	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C124	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C125	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C126	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C127	1-126-916-11	ELECT	1000uF	20%	6.3V
C128	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C129	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C132	1-126-916-11	ELECT	1000uF	20%	6.3V
C134	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C138	1-112-298-91	CERAMIC CHIP	1uF	10%	16V
C139	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C142	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C143	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V
C144	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C145	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C146	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C147	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C148	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C150	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN103	1-784-726-11	CONNECTOR, FFC 4P			
CN104	1-843-530-11	PIN, CONNECTOR 3P			

MAIN

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D102	6-502-961-01	DIODE DA2J10100L			
D103	6-502-961-01	DIODE DA2J10100L			
D104	6-502-961-01	DIODE DA2J10100L			
D105	6-503-716-01	DIODE DB2J31600L			
		< IC >			
IC101	6-715-607-01	IC PST8218UL			
IC102	6-715-665-01	IC PST8436UL			
IC103	6-717-441-01	IC BD00GA5WEFJ-E2			
IC104	6-719-917-01	IC PST8133UL			
IC105	6-711-132-01	IC MM3291CNRE			
IC106	6-715-620-01	IC PST8240UL			
		< TRANSISTOR >			
Q102	6-552-237-01	FET	SSM3J15FU (T5LSOY, E		
		< RESISTOR >			
R101	1-216-833-11	METAL CHIP	10K	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W
R104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-845-11	METAL CHIP	100K	5%	1/10W
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R110	1-216-833-11	METAL CHIP	10K	5%	1/10W
R113	1-216-833-11	METAL CHIP	10K	5%	1/10W
R114	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R115	1-216-849-11	METAL CHIP	220K	5%	1/10W
R118	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R119	1-216-825-11	METAL CHIP	2.2K	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	1-216-833-11	METAL CHIP	10K	5%	1/10W
R124	1-216-821-11	METAL CHIP	1K	5%	1/10W
R125	1-216-821-11	METAL CHIP	1K	5%	1/10W
R126	1-216-833-11	METAL CHIP	10K	5%	1/10W
R127	1-216-833-11	METAL CHIP	10K	5%	1/10W
R129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R130	1-216-821-11	METAL CHIP	1K	5%	1/10W
R131	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R133	1-216-849-11	METAL CHIP	220K	5%	1/10W
R134	1-216-864-11	SHORT CHIP	0		
R136	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R137	1-216-853-11	METAL CHIP	470K	5%	1/10W
R139	1-216-845-11	METAL CHIP	100K	5%	1/10W
R140	1-216-853-11	METAL CHIP	470K	5%	1/10W
R141	1-216-857-11	METAL CHIP	1M	5%	1/10W
R144	1-216-864-11	SHORT CHIP	0		
R145	1-216-864-11	SHORT CHIP	0		
R147	1-250-660-11	METAL CHIP	68K	1%	1/10W
R148	1-250-648-11	METAL CHIP	22K	1%	1/10W
R149	1-216-845-11	METAL CHIP	100K	5%	1/10W
		< SWITCH >			
S101	1-798-464-11	SWITCH, TACTILE (I/⏻)			

Ref. No.	Part No.	Description	Remark
		< VARISTOR >	
VDR101	1-802-255-11	ESD SUPPRESSOR	
**********			
		MISCELLANEOUS	
		**********	
ANT1	1-754-856-21	ANTENNA, TELESCOPIC	
CAB1	A-1904-051-A	CABINET FRONT ASSY (Including SPEAKER, BUTTON) (for BLACK)	
CAB1	A-1908-256-A	CABINET FRONT ASSY (Including SPEAKER, BUTTON) (for WHITE)	
CAB1	A-1908-260-A	CABINET FRONT ASSY (Including SPEAKER, BUTTON) (for RED)	
CN104	1-843-530-11	PIN, CONNECTOR 3P	
D301	6-501-601-01	LED 1L0341Y22C0TT001 (LCD BACK LIGHT)	
DAB1	X-2587-128-1	MODULE ASSY (SVX) (DAB module)	
J202	1-785-448-21	JACK (🎧)	
LCD1	1-811-737-11	DISPLAY PANEL, LIQUID CRYSTAL	
**********			
		ACCESSORIES	
		**********	
⚠	1-491-975-51	ADAPTOR, AC (AC-P6005E) (Australian)	
⚠	1-491-975-61	ADAPTOR, AC (AC-P6005F) (AEP)	
⚠	1-491-975-81	ADAPTOR, AC (AC-P6005H) (UK)	
	4-449-401-11	MANUAL, INSTRUCTION (ENGLISH)	
	4-449-401-21	MANUAL, INSTRUCTION (SWEDISH, DANISH) (AEP)	
	4-449-401-31	MANUAL, INSTRUCTION (ITALIAN, FRENCH) (AEP)	
	4-449-401-41	MANUAL, INSTRUCTION (DUTCH, SPANISH) (AEP)	
	4-449-401-51	MANUAL, INSTRUCTION (GERMAN) (AEP)	

MEMO

REVISION HISTORY

Checking the version allows you to jump to the revised page.
Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2013.01	New