

# CFD-S05

## SERVICE MANUAL

Ver. 1.0 2010.03

*Australian Model  
Singapore Model  
Taiwan Model  
Korea Model  
Thai Model*



CD Section	Model Name Using Similar Mechanism	NEW
	Optical Pick-up Name	DA11MMVGP
TC Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-S05V

### SPECIFICATIONS

#### CD player section

##### System

Compact disc digital audio system

##### Laser diode properties

Emission duration: Continuous

Laser output: Less than 44.6  $\mu$ W

(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

##### Number of channels

2

##### Frequency response

20 Hz - 20,000 Hz +1/-2 dB

##### Wow and flutter

Below measurable limit

#### Radio section

##### Frequency range

FM: 87.5 MHz - 108 MHz

Except SP model:

AM: 531 kHz - 1,602 kHz

SP model:

AM: 531 kHz - 1,602 kHz (9 kHz step)

530 kHz - 1,610 kHz (10 kHz step)

##### IF (AUS, TH model)

FM: 128 kHz

AM: 45 kHz

##### Antennas

FM: Telescopic antenna

AM: Built-in ferrite bar antenna

#### Cassette-corder section

##### Recording system

4-track 2 channel stereo

##### Fast winding time

Approx. 150 s (sec.) with Sony cassette C-60

##### Frequency response

TYPE I (normal): 80 Hz - 10,000 Hz

#### General

##### Speaker

Full range: 8 cm dia., 4  $\Omega$ , cone type (2)

##### Outputs

Headphones jack (stereo minijack):

For 16  $\Omega$  - 32  $\Omega$  impedance headphones

##### Input

AUDIO IN jack (stereo minijack)

– Continued on next page –

## CD RADIO CASSETTE-CORDER

9-889-821-01

2010C04-1

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**Sony Corporation**

Audio&Video Business Group

Published by Sony Techno Create Corporation

# SONY®

## Power output

1.7 W + 1.7 W (at 4 Ω, 10% harmonic distortion)

## Power requirements

For CD radio cassette-corder:

120 V AC, 60 Hz (TW model)

230 V AC, 50 Hz (AUS model)

220 V AC, 50 Hz (TH model)

220 V AC, 60 Hz (KR model)

230 V AC - 240 V AC, 50 Hz (SP model)

9 V DC, 6 R14 (size C) batteries

## Power consumption

AC 13 W

## Battery life

For CD radio cassette-corder:

### FM recording

Sony R14P: approx. 4.5 h

Sony alkaline LR14: approx. 19 h

### Tape playback

Sony R14P: approx. 2.5 h

Sony alkaline LR14: approx. 13 h

### CD playback

Sony R14P: approx. 1 h

Sony alkaline LR14: approx. 8 h

## Dimensions

Approx. 365 mm × 134 mm × 230 mm (w/h/d)  
(incl. projecting parts)

## Mass

Approx. 2.7 kg (incl. batteries)

## Supplied accessory

AC power cord (1)

Design and specifications are subject to change without notice.

## • Abbreviation

AUS : Australian model

KR : Korean model

SP : Singapore model

TH : Thai model

TW : Taiwan model

## CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

## 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.

## NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

## NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pickup block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

## NOTES ON DUALDISCS

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

## 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.

**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)

**LF : 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.

**TABLE OF CONTENTS**

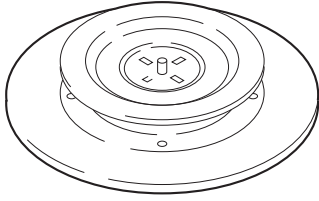
<b>1. SERVICING NOTES</b> .....	4
<b>2. DISASSEMBLY</b>	
2-1. Cabinet (Upper) Section .....	6
2-2. Cabinet (Front) Section.....	6
2-3. MAIN Board.....	7
2-4. POWER Board.....	7
2-5. CD Block Assy.....	8
2-6. MOTOR Board .....	8
2-7. CD Lid .....	9
2-8. MD Block Assy.....	9
2-9. Cassette Lid.....	10
2-10. KEY Board.....	10
<b>3. MECHANICAL ADJUSTMENTS</b> .....	11
<b>4. ELECTRICAL ADJUSTMENTS</b>	
Tape Section.....	11
Tuner Section.....	12
CD Section.....	13
<b>5. DIAGRAMS</b>	
5-1. Block Diagram –CD Section– .....	15
5-2. Block Diagram –Main Section– .....	16
5-3. Printed Wiring Board –Main Section–.....	18
5-4. Printed Wiring Boards –Key, Power Section–.....	19
5-5. Schematic Diagram –Main Section (1/3)–.....	20
5-6. Schematic Diagram –Main Section (2/3)–.....	21
5-7. Schematic Diagram –Main Section (3/3)–.....	22
5-8. Schematic Diagram –Key Section– .....	23
5-9. Schematic Diagram –Power Section–.....	24
<b>6. EXPLODED VIEWS</b>	
6-1. Overall Section .....	30
6-2. Cabinet (Front) Section.....	31
6-3. Cabinet (Upper) Section (1).....	32
6-4. Cabinet (Upper) Section (2).....	33
6-5. Cabinet (Rear) Section.....	34
<b>7. ELECTRICAL PARTS LIST</b> .....	35

## SECTION 1 SERVICING NOTES

### CHUCK PLATE JIG ON REPAIRING

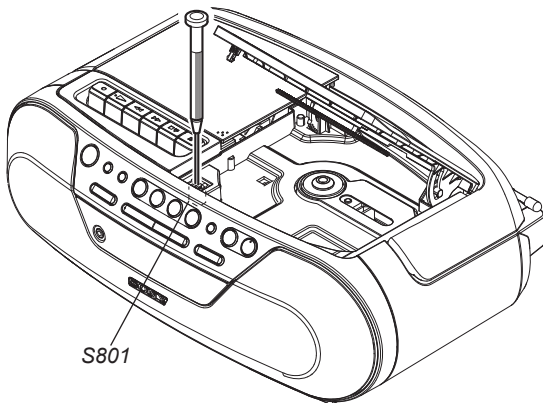
On repairing CD section, playing a disc without the lid (CD), use Chuck Plate Jig.

- Code number of Chuck Plate Jig: X-4918-255-1

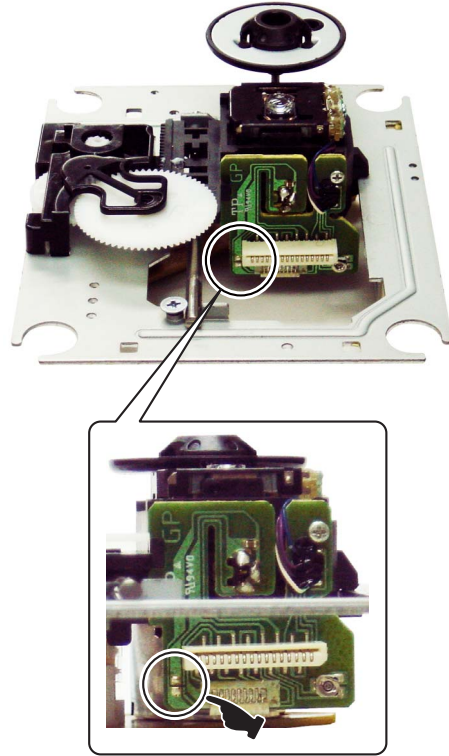


### LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Turn ON the [OPERATE] button and press [CD] button to CD position.
2. Open the CD lid.
3. Turn on S801 with screwdriver, etc. as following figure.
4. Press the [▶ ||] (CD) button.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken. Objective lens moves up and down three times for focus search.



### PRECAUTION WHEN INSTALLING A NEW OP UNIT/ PRECAUTION BEFORE UNSOLDERING THE STATIC ELECTRICITY PREVENTION SOLDER BRIDGE



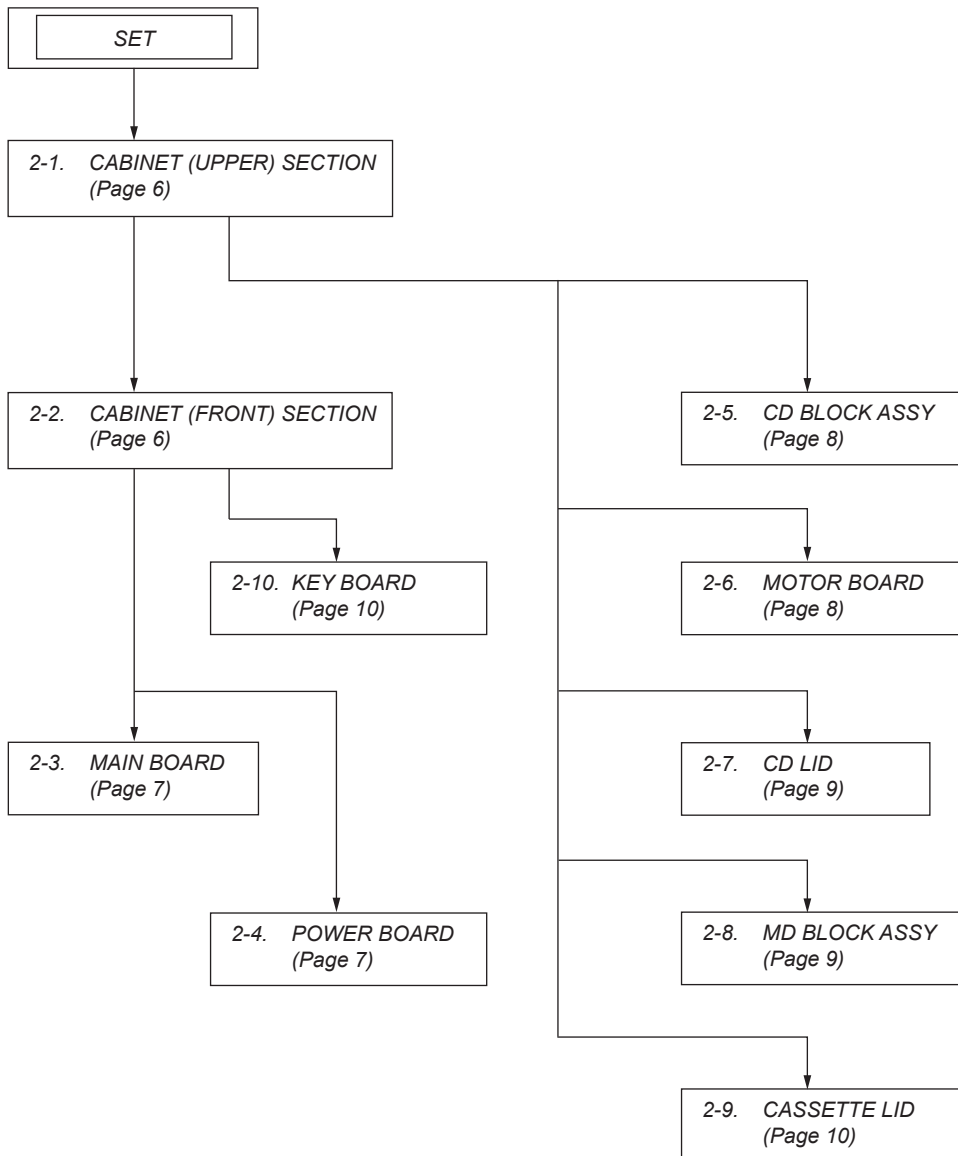
When installing a new OP unit, be sure to connect the flexible printed circuit board first of all before removing the static electricity prevention solder bridge by unsoldering.

Remove the static electricity prevention solder bridge by unsoldering after the flexible printed circuit board has already been connected.

(Do not remove nor unsolder the solder bridge as long as the OP unit is kept standalone.)

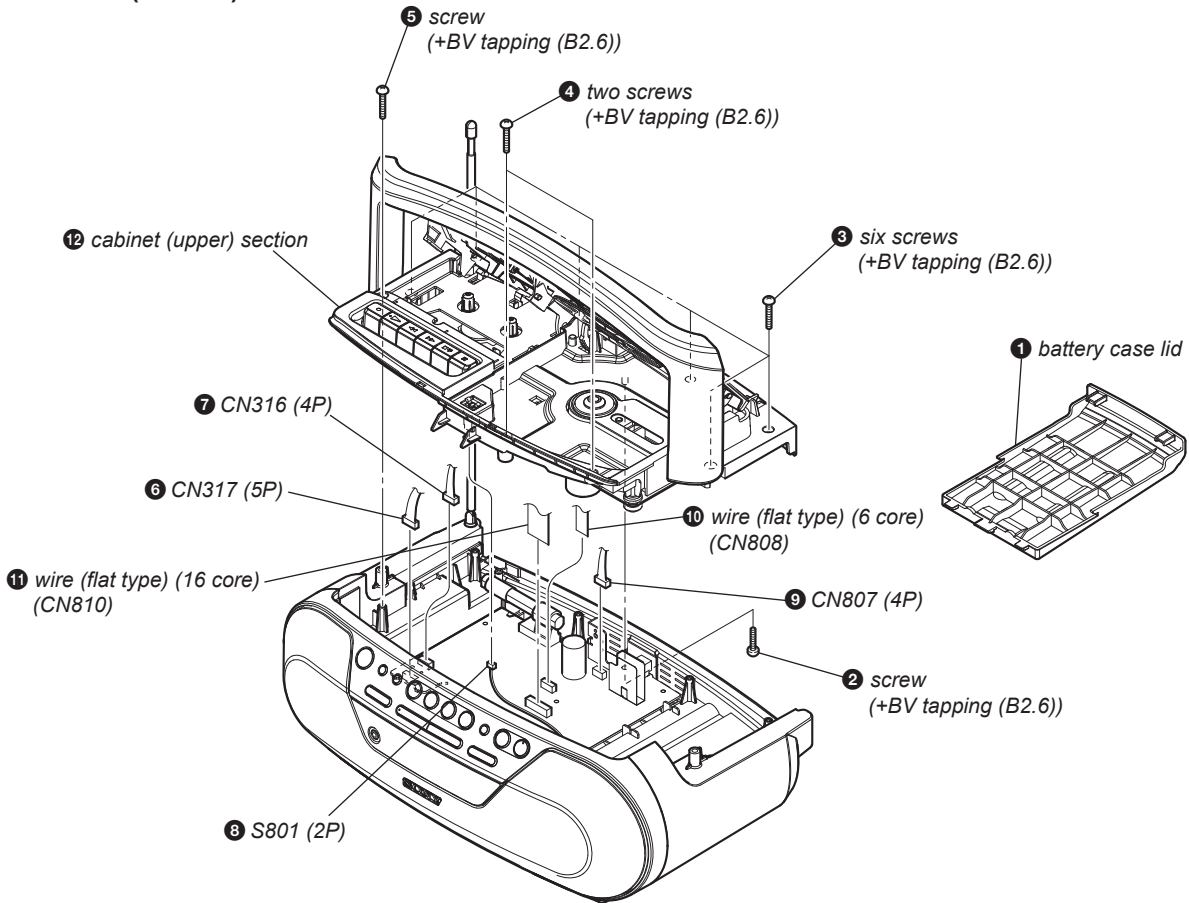
## SECTION 2 DISASSEMBLY

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

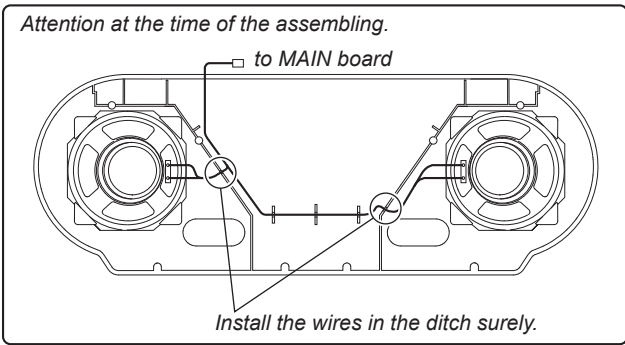
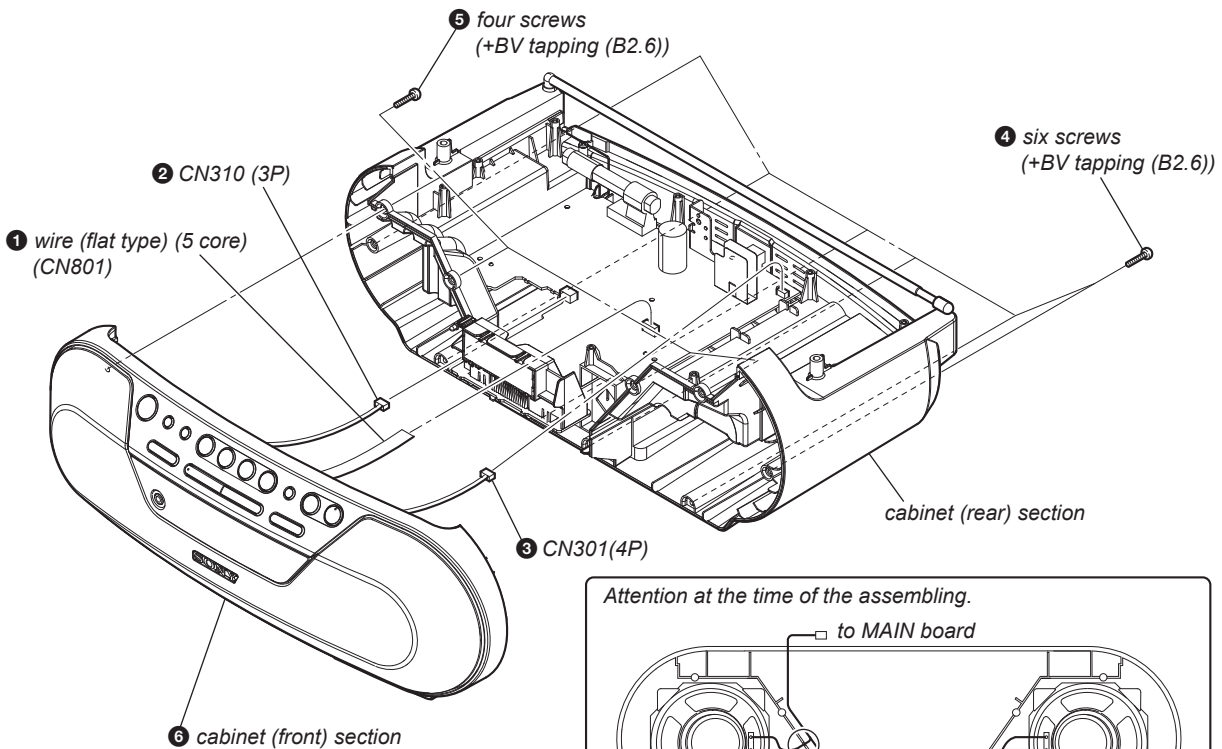


**Note:** Follow the disassembly procedure in the numerical order given.

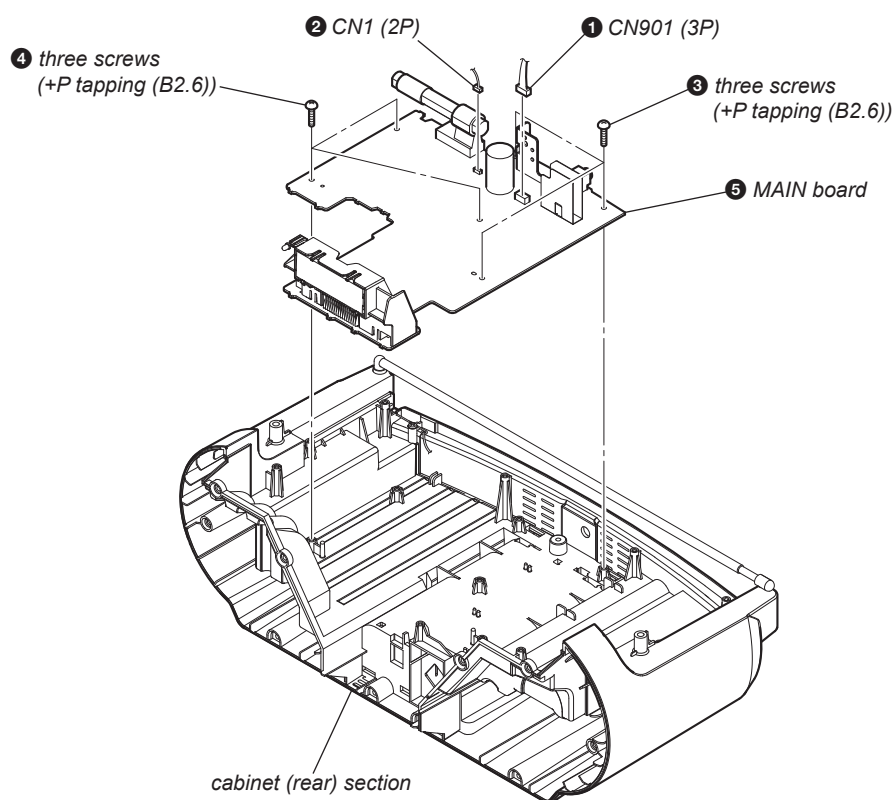
**2-1. CABINET (UPPER) SECTION**



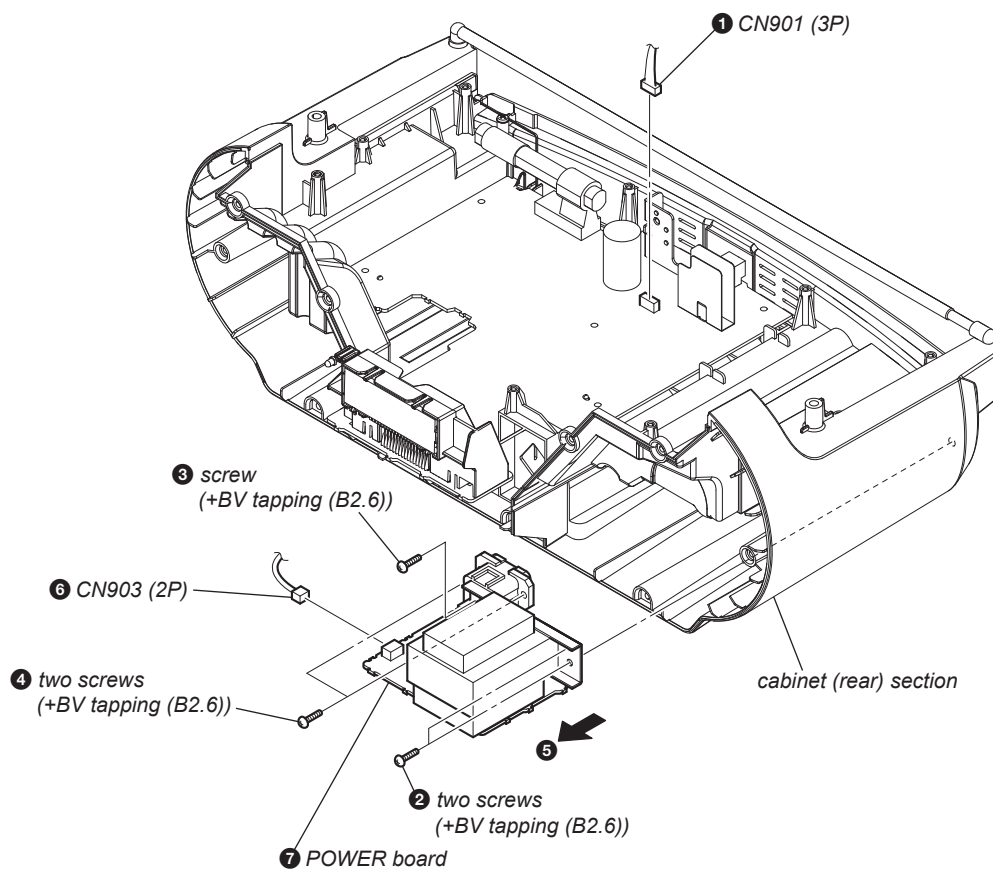
**2-2. CABINET (FRONT) SECTION**



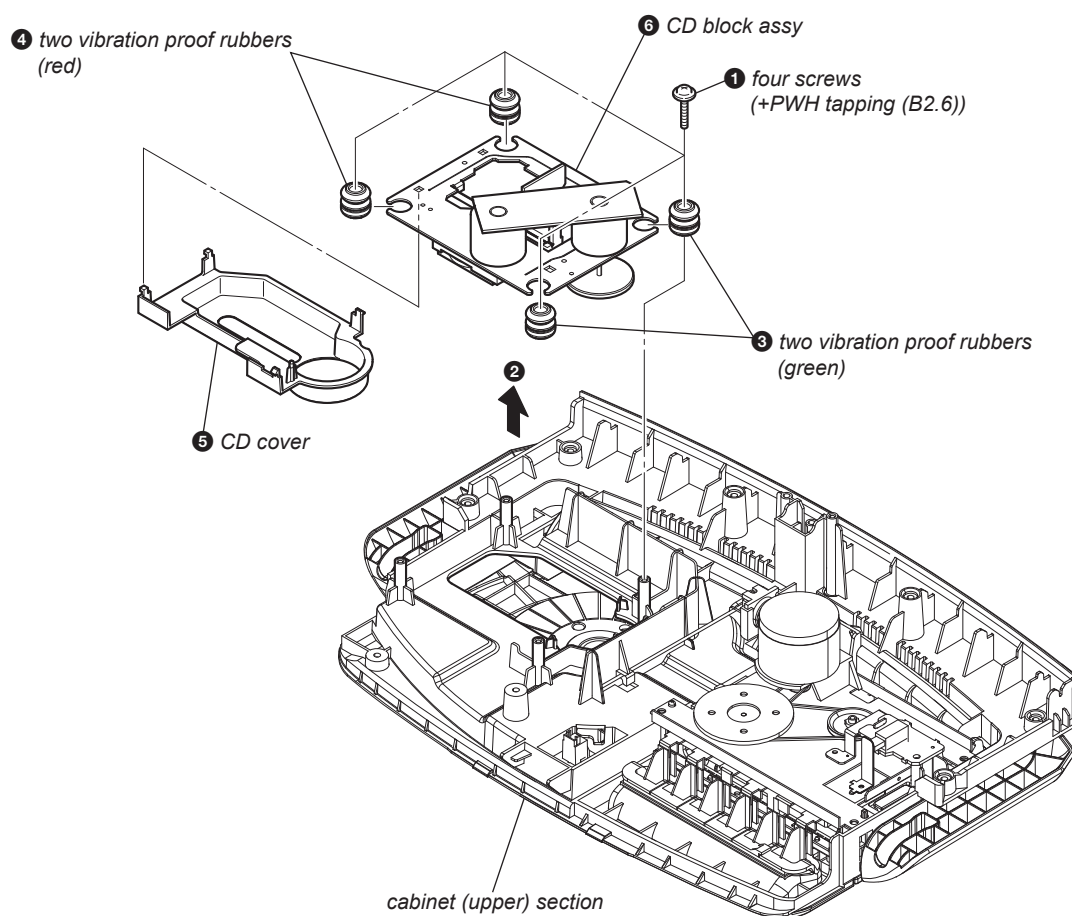
## 2-3. MAIN BOARD



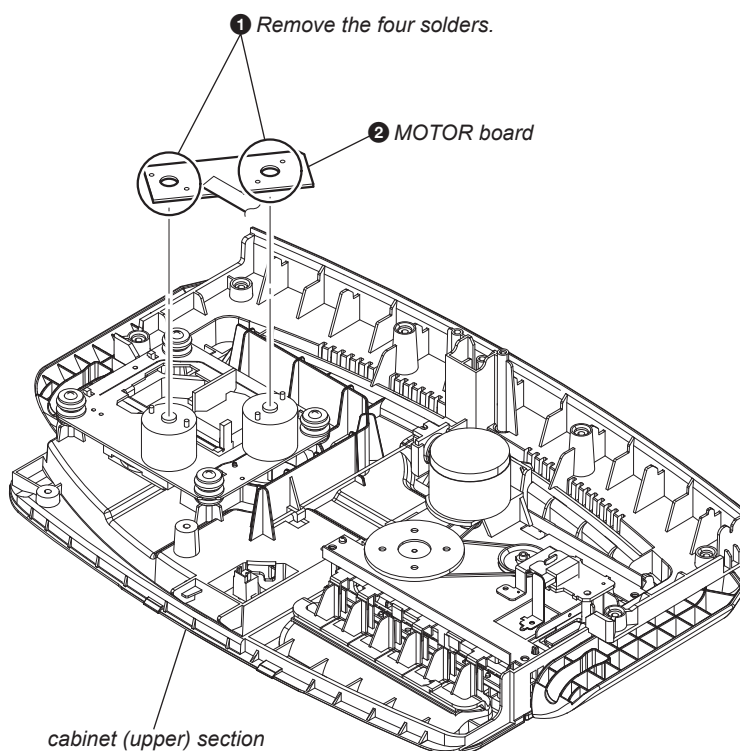
## 2-4. POWER BOARD



2-5. CD BLOCK ASSY

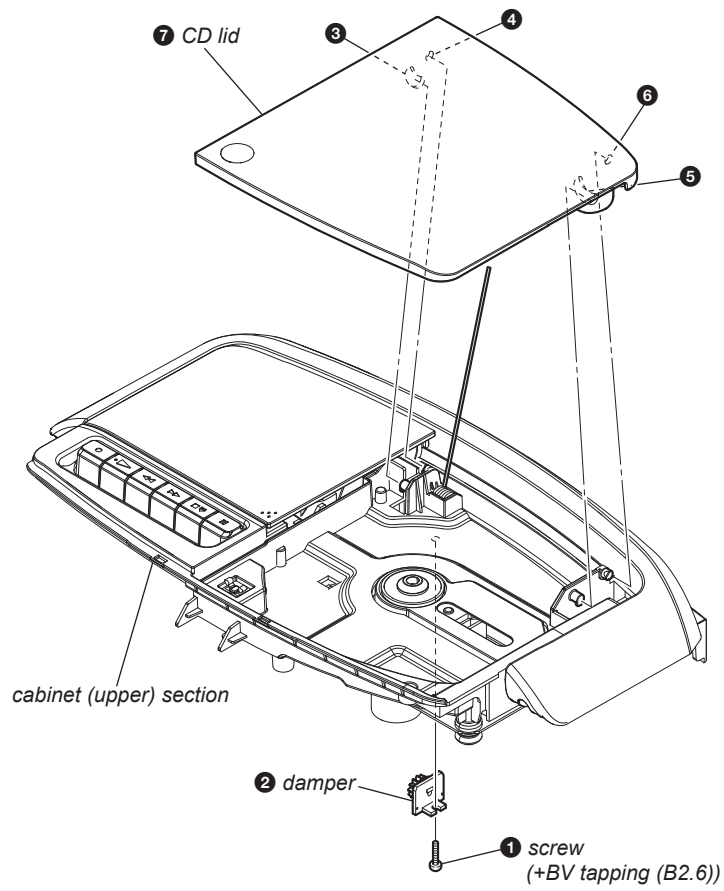


2-6. MOTOR BOARD

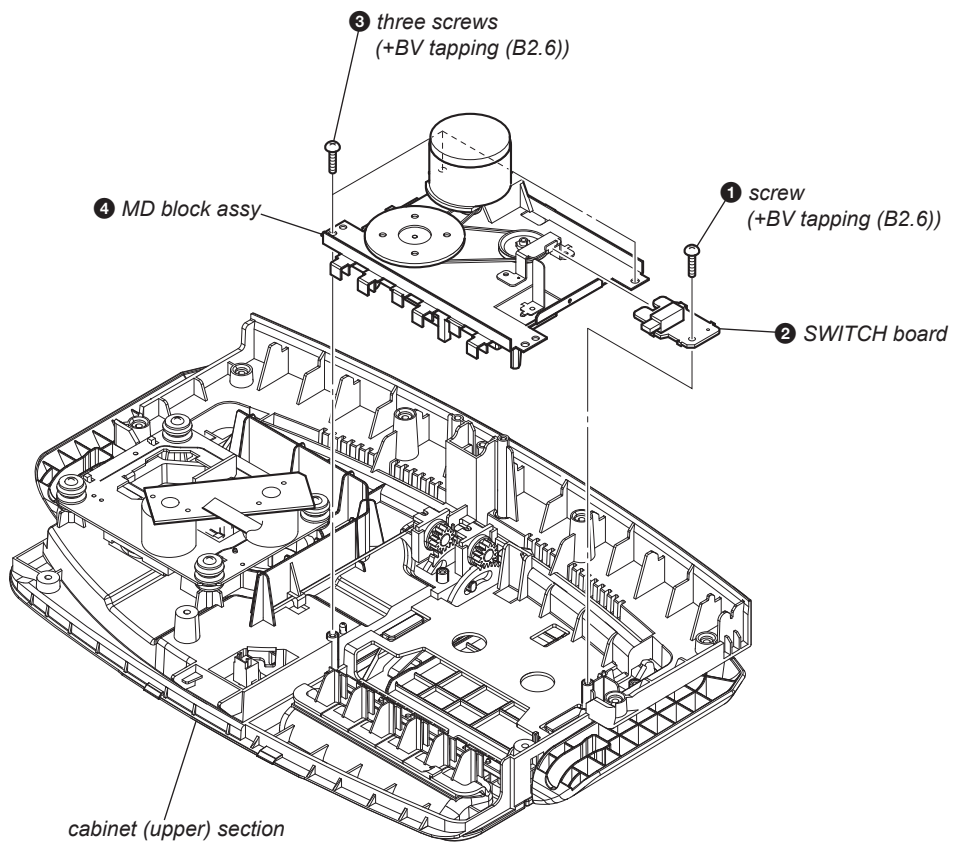




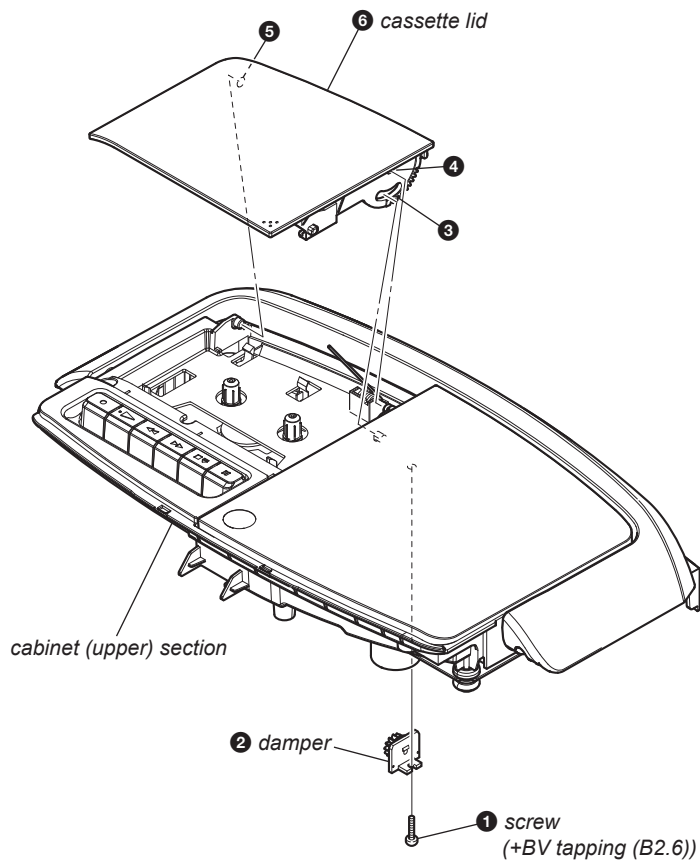
2-7. CD LID



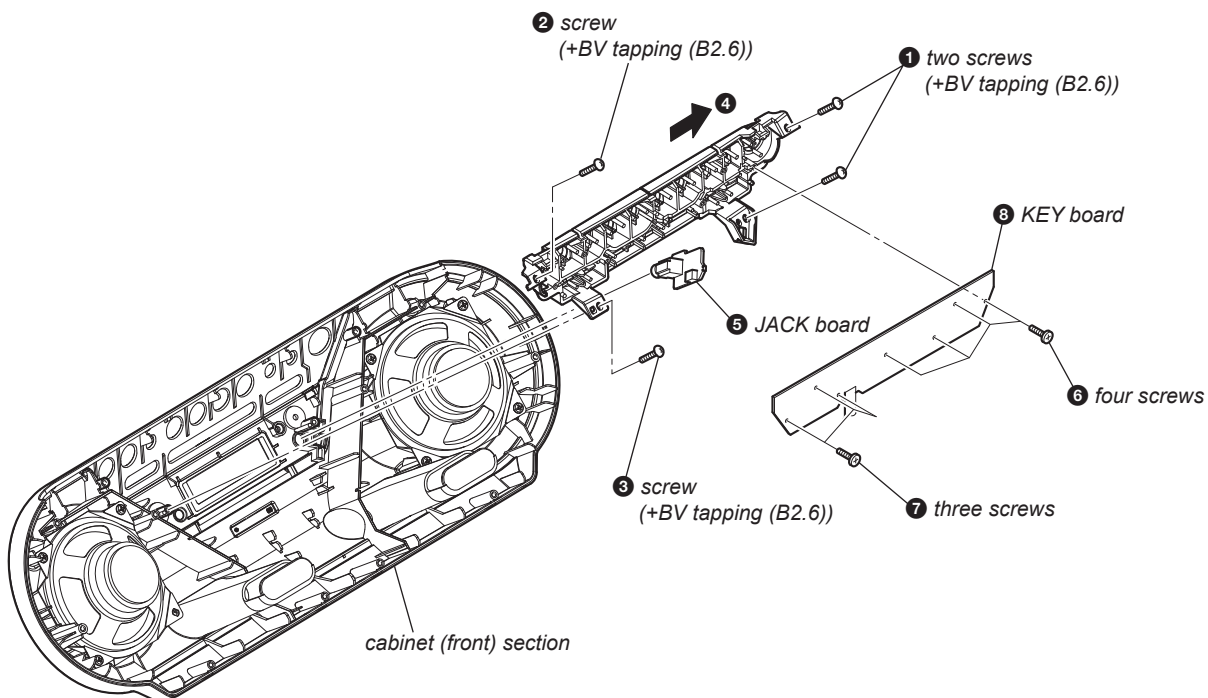
2-8. MD BLOCK ASSY



2-9. CASSETTE LID



2-10. KEY BOARD



## SECTION 3 MECHANICAL ADJUSTMENTS

### Precaution

- Clean the following parts with a denatured-alcohol-moistened swab:
 

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- The adjustments should be performed with the rated power supply voltage (9 V) unless otherwise noted.

### Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.95 – 6.86 mN • m (30 to 70 g • cm) (0.42 – 0.97 oz • inch)
FWD Back tension	CQ-102C	0.15 – 0.53 mN • m (1.5 to 5.5 g • cm) (0.021 – 0.076 oz • inch)
FF	CQ-201B	more than 5.88 mN • m (more than 60 g • cm) (more than 0.83 oz • inch)
REW	CQ-201B	more than 5.88 mN • m (more than 60 g • cm) (more than 0.83 oz • inch)

### Tape Tension Measurement

Mode	Tension meter	Meter reading
FWD	CQ-403A	more than 100 g (more than 3.53 oz)

## SECTION 4 ELECTRICAL ADJUSTMENTS

**TAPE SECTION** 0 dB = 0.775V

### • Standard Output Level

Output terminal	HP OUT
load impedance	32 Ω
output signal level	0.25 V (–10 dB)

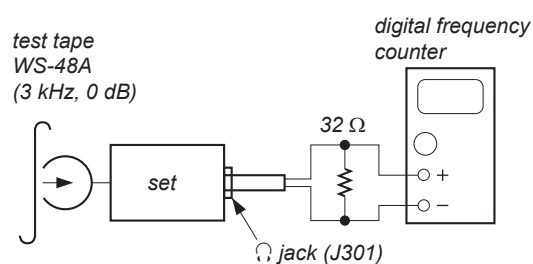
### • Test Tape

Tape	Signal	Used for
WS-48A	3 kHz, 0 dB	tape speed adjustment
P-4-A063	6.3 kHz, –10 dB	azimuth adjustment

### Tape Speed Adjustment

#### Procedure:

Mode: playback



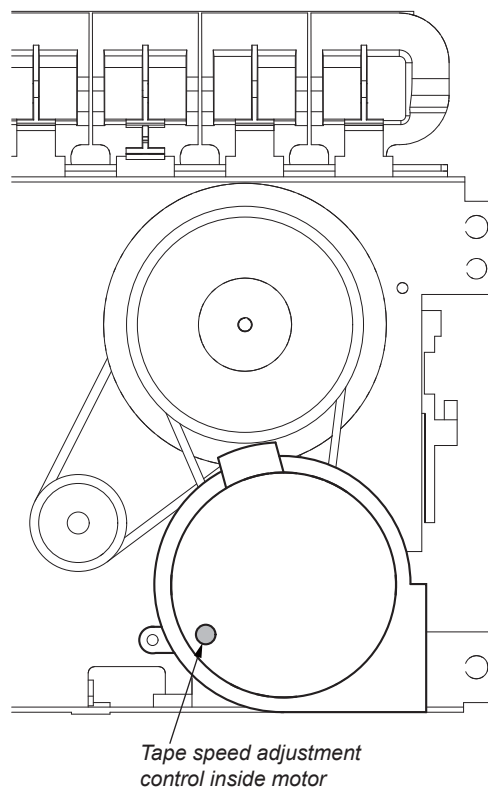
Adjust so that the value on the digital frequency counter is 3,000 Hz.

#### Specification Value:

Digital frequency counter
2,910 to 3,090 Hz

Adjust so that the frequency at the beginning and that at the end of tape winding are between 2,910 to 3,090 Hz.

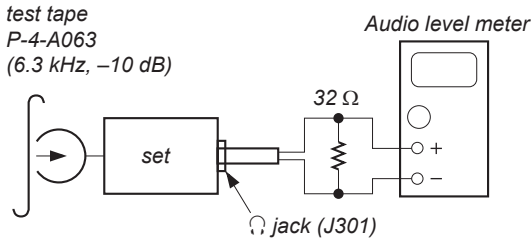
#### Adjustment Location:



**Record/Playback Head Azimuth Adjustment**

**Procedure:**

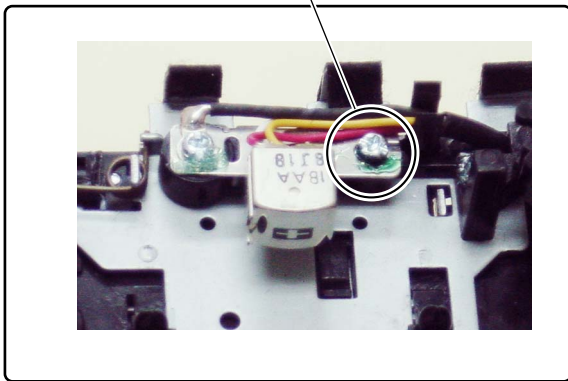
Mode: playback



Play back the test tape (P-4-A063) and adjust a screw for Azimuth adjustment in the head right side so that the output becomes maximum. The headphone output level is a range of -7 dB from -15 dB. After the adjustment, apply suitable Locking compound to the part adjusted.

**Adjustment Location:**

Record/playback  
Azimuth adjustment screw

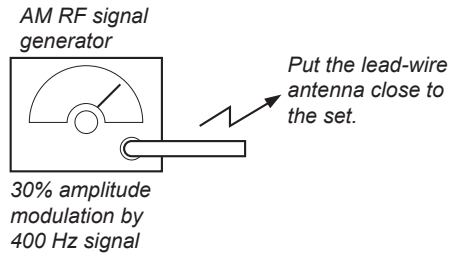


**TUNER SECTION** 0 dB = 1 μV

• **AM Section**

**Setting:**

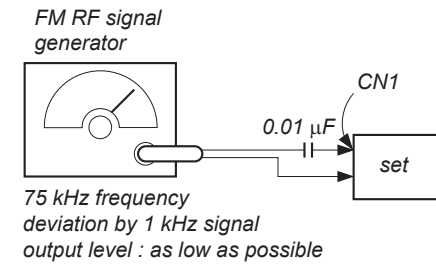
RADIO BAND•AUTO PRESET button: AM



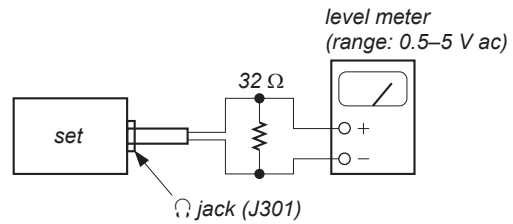
• **FM Section**

**Setting:**

RADIO BAND•AUTO PRESET button: FM



• **Connecting Level Meter (FM, AM)**



AM FREQUENCY COVERAGE CHECK		
Frequency Display	531 kHz	1,602 kHz
Adjustment Part	<confirmation>	

FM FREQUENCY COVERAGE CHECK		
Frequency Display	87.5 MHz	108 MHz
Adjustment Part	<confirmation>	

• **Abbreviation**

- AUS : Australian model
- KR : Korean model
- SP : Singapore model
- TH : Thai model
- TW : Taiwan model

## CD SECTION

CD section adjustments are done automatically in this set.  
In case of operation check, confirm that focus bias.

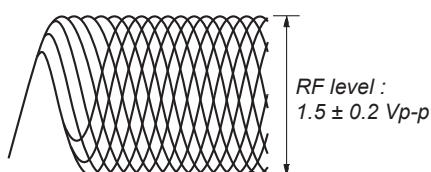
### FOCUS BIAS CHECK

1. Connect the oscilloscope between IC801 pin ⑦⑨ and pin ⑧⑧ (or TP804 (RF) and TP711 (VREF)).
2. Insert the disc (PATD-012 (Tr 15)). (Part No. : 4-225-203-01)
3. Press the **▶ ||** (CD) button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)

A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

- RF signal reference waveform (eye pattern)

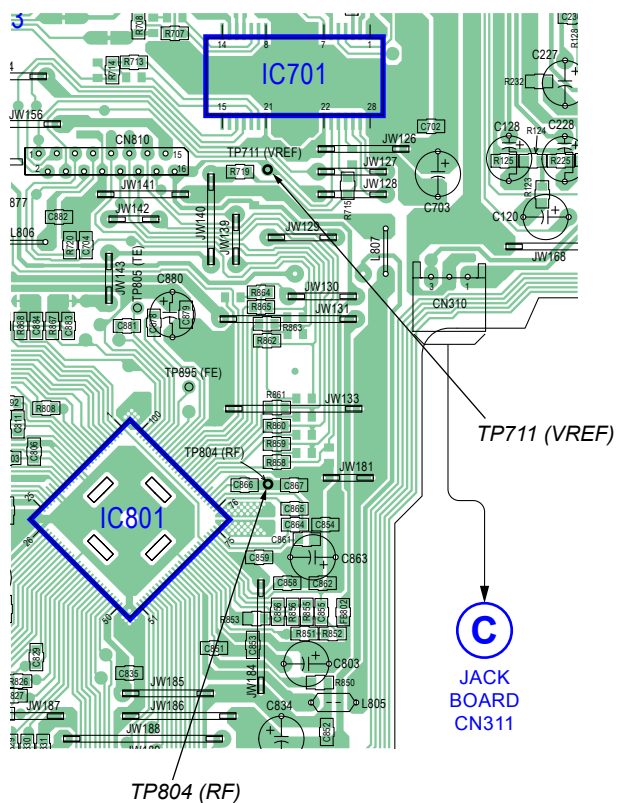
VOLT/DIV : 50 mV (10 : 1 probe in use)  
TIME/DIV : 500 nS



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

### Test Point:

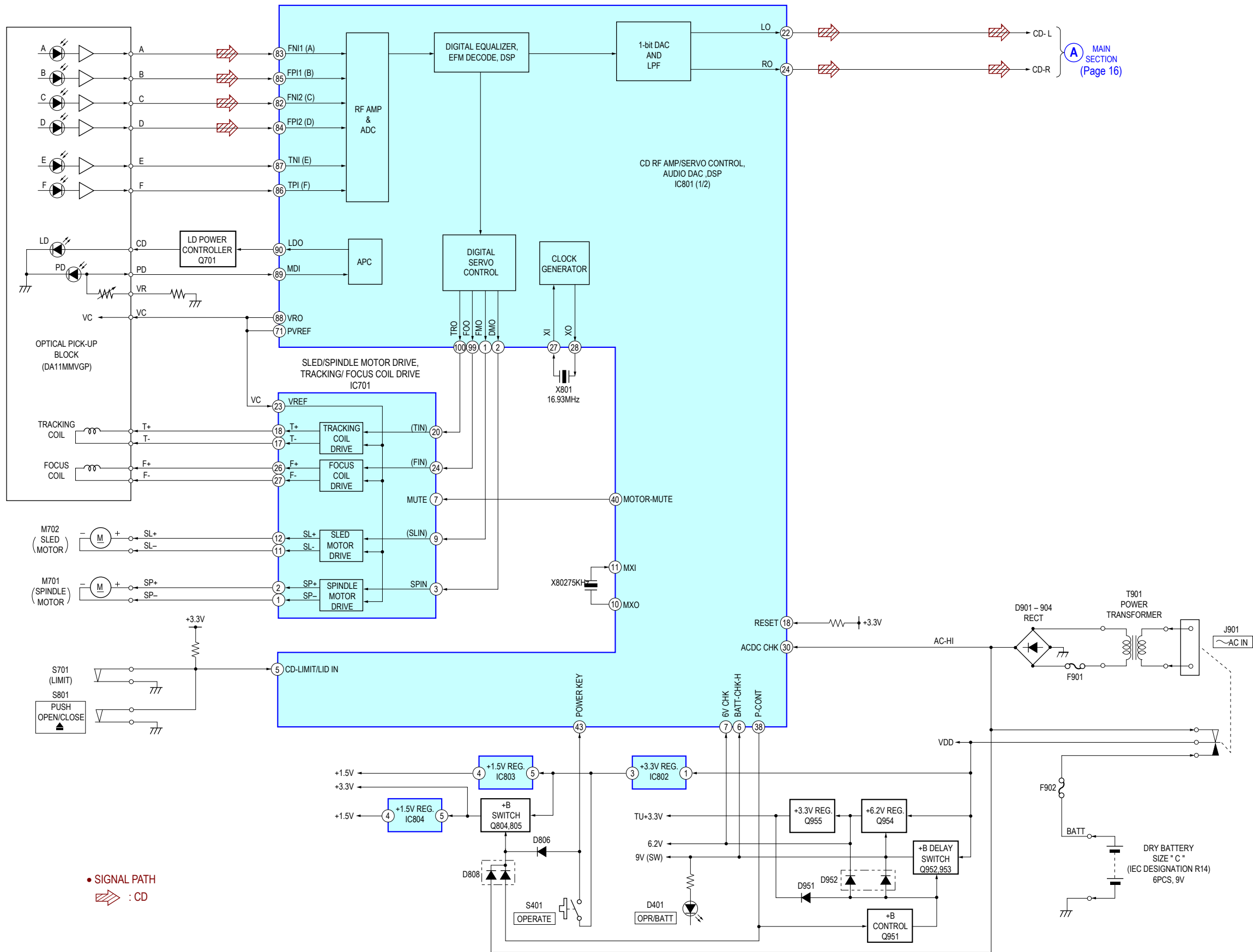
#### – MAIN BOARD (Conductor Side) –



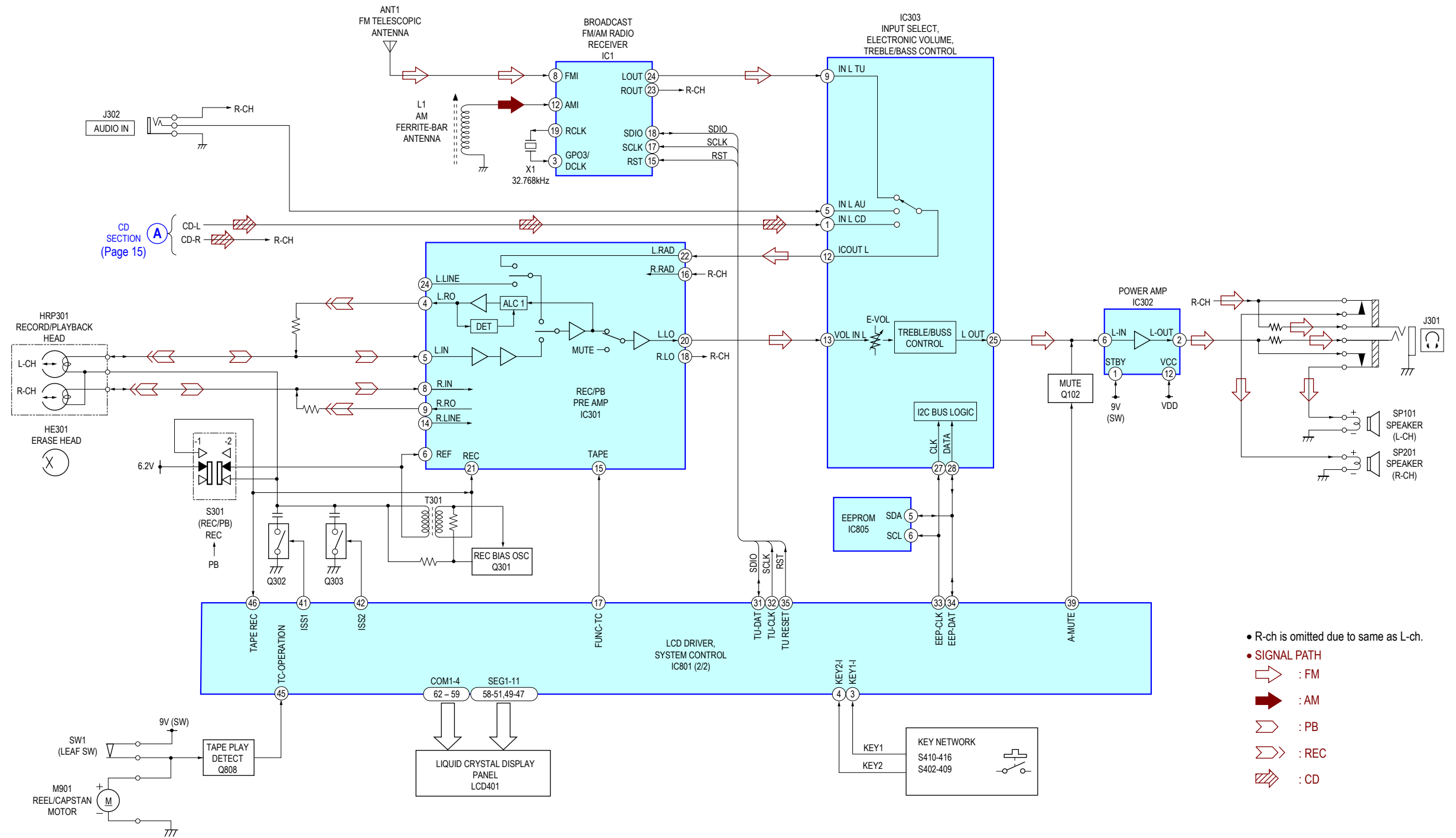
MEMO

## SECTION 5 DIAGRAMS

### 5-1. BLOCK DIAGRAM – CD Section –



5-2. BLOCK DIAGRAM – MAIN Section –





**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.**

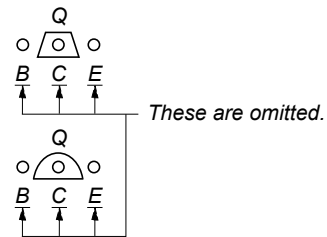
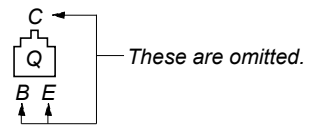
**Note:**

- : Parts extracted from the component side.
- : Parts extracted from the conductor side.
- : Indicates side identified with part number.
- △: Internal component.
- : Pattern from the side which enables seeing.  
 (The other layers' patterns are not indicated.)

**Caution:**

Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.  
 Parts face side: Parts on the parts face side seen from the parts face are indicated.

• Indication of transistor.



• Abbreviation

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**For Schematic Diagrams.**

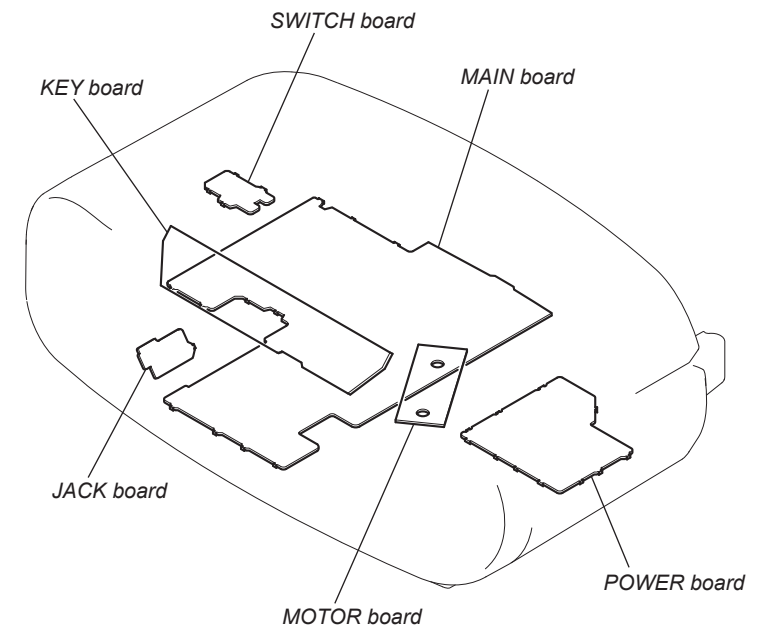
**Note:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and 1/4 W or less unless otherwise specified.
- △: Internal component.
- : 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.
- : Adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- ( ): AM
- < >: PB
- << >>: REC
- [ ]: CD PLAY
- Voltages are taken with VOM (Input impedance 10 M $\Omega$ ). 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
- ⇨: PB
- ⇨: REC
- ⇨: CD
- Abbreviation
- AUS : Australian model
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• Circuit Boards Location

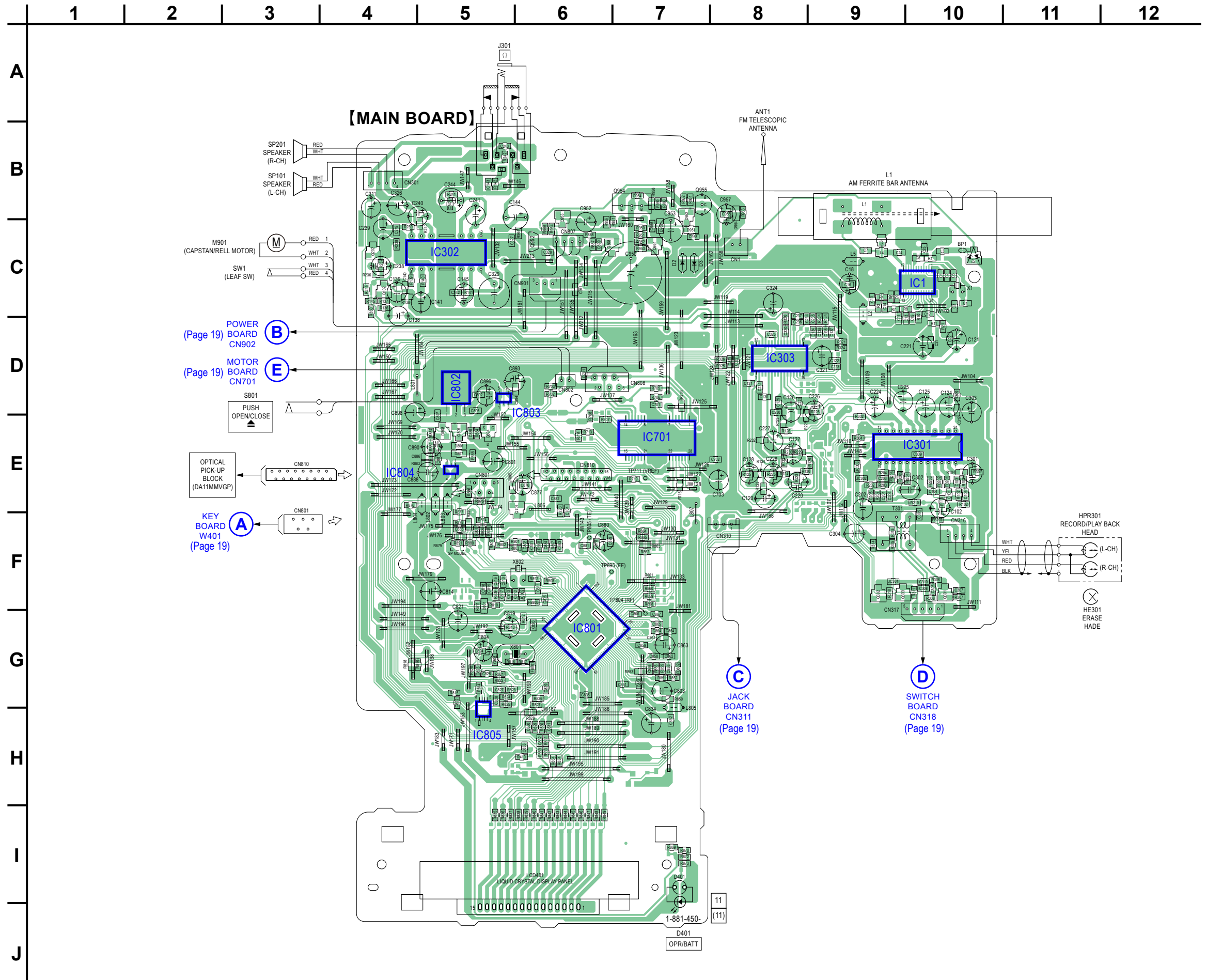


• Waveforms

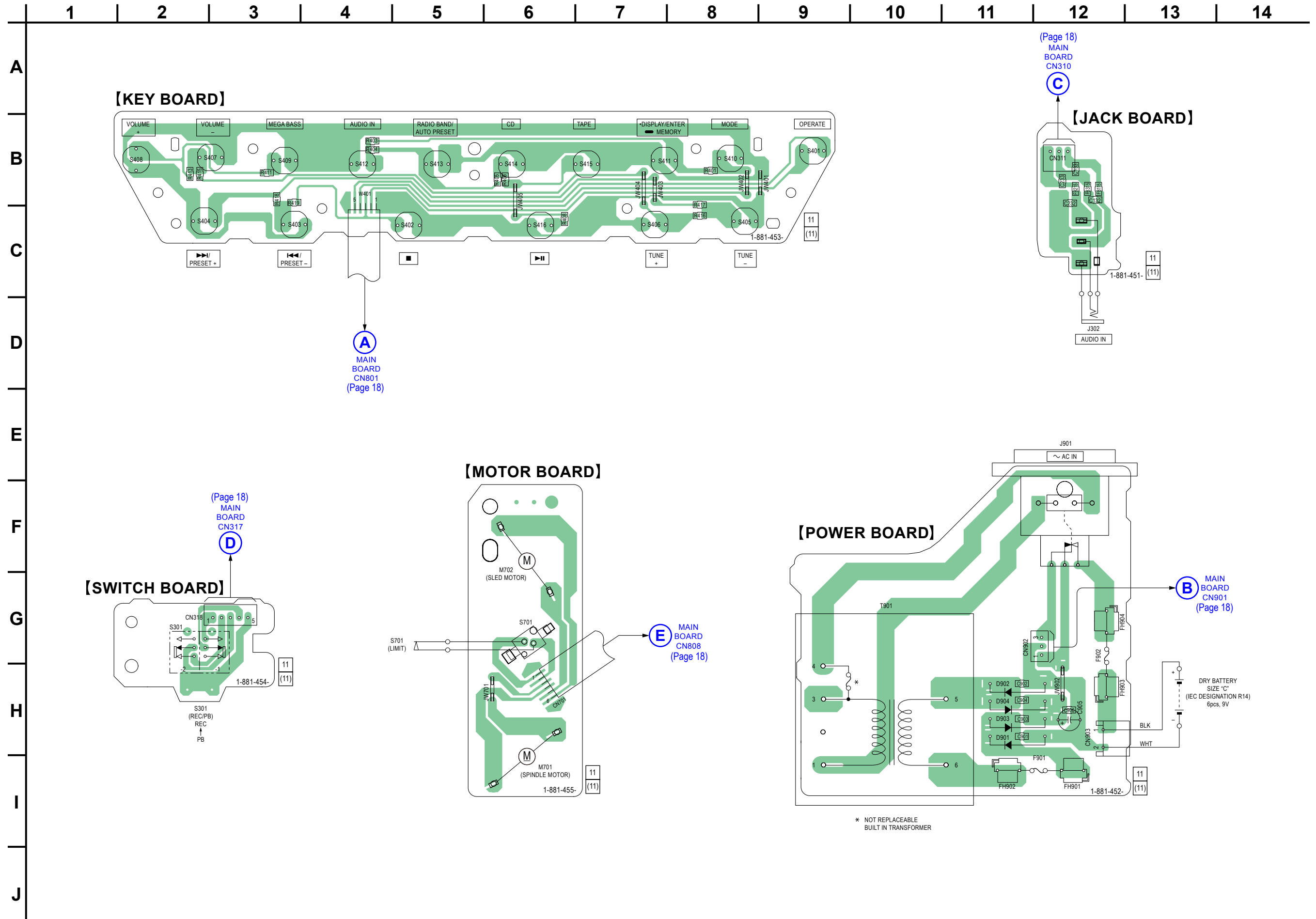
– MAIN Board –

<p>① IC1<sup>19</sup> (RCLK) – TUNER MODE –</p> <p>0.7 Vp-p 32.768 kHz</p> <p>200 mV/DIV, 10 <math>\mu\text{s}</math>/DIV</p>	<p>④ IC801<sup>79</sup> (RFO) – CD PLAY –</p> <p>1.5±0.2 Vp-p</p> <p>500 mV/DIV, 0.5 <math>\mu\text{s}</math>/DIV</p>	<p>⑦ Q301<sup>C</sup> (REC)</p> <p>4.2 Vp-p 18.1 <math>\mu\text{sec}</math></p> <p>1 V/DIV, 10 <math>\mu\text{s}</math>/DIV</p>
<p>② IC801<sup>10</sup> (MXO)</p> <p>2.7 Vp-p 75 kHz</p> <p>1 V/DIV, 5 <math>\mu\text{s}</math>/DIV</p>	<p>⑤ IC801<sup>95</sup> (FEI) – CD PLAY –</p> <p>1.5 V Approx. 100 mVp-p</p> <p>100 mV/DIV, 5 ms/DIV</p>	<p>⑧ HRP301 (YEL)</p> <p>40 Vp-p 18.1 <math>\mu\text{sec}</math></p> <p>10 V/DIV, 10 <math>\mu\text{s}</math>/DIV</p>
<p>③ IC801<sup>28</sup> (XO) – CD PLAY –</p> <p>1.1 Vp-p 16.93 MHz</p> <p>1 V/DIV, 20 ns/DIV</p>	<p>⑥ IC801<sup>96</sup> (TEI) – CD PLAY –</p> <p>1.5V Approx. 170 mVp-p</p> <p>200 mV/DIV, 5 ms/DIV</p>	

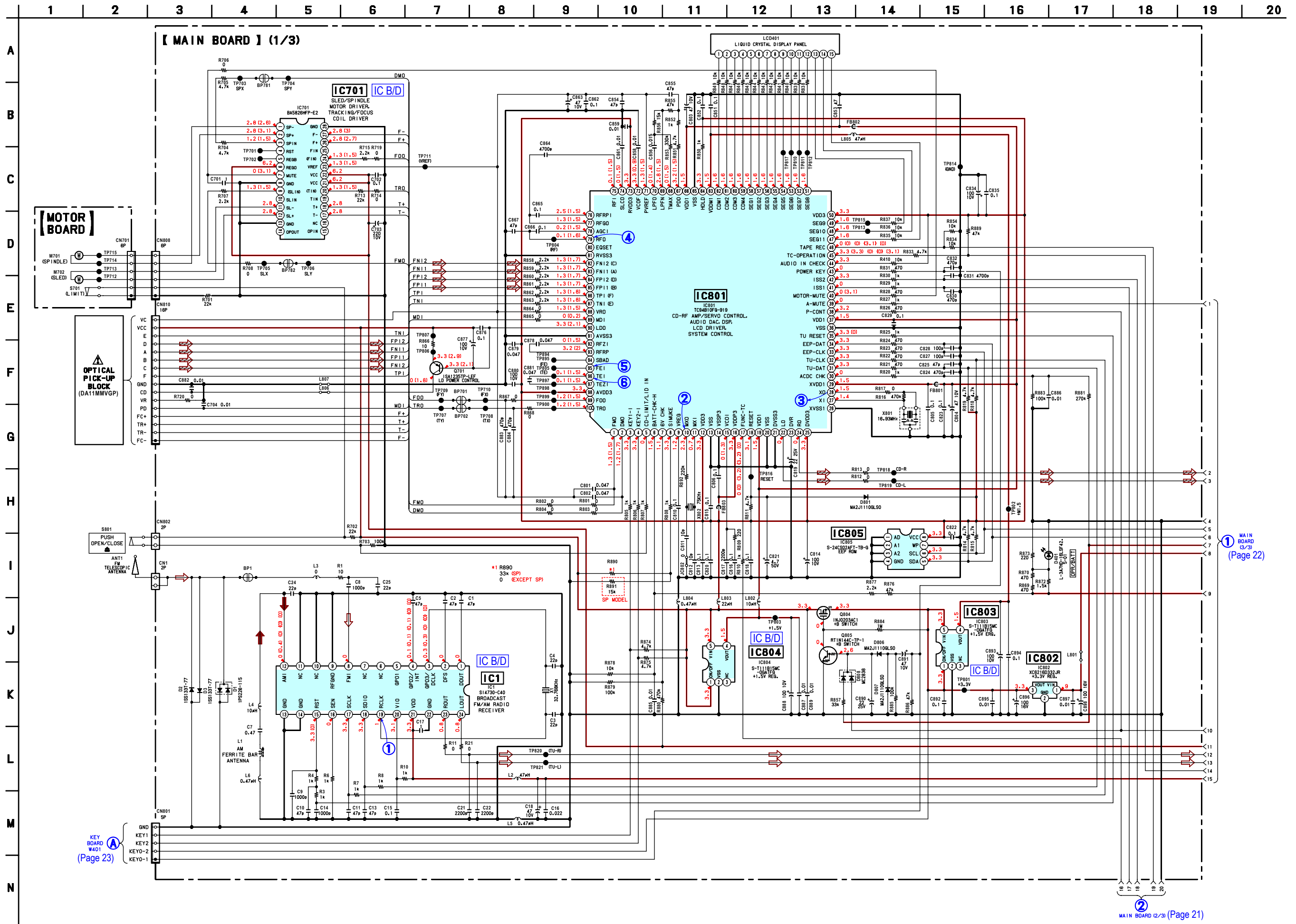
5-3. PRINTED WIRING BOARD – MAIN Section – • See page 17 for Circuit Boards Location. •  : Uses unleaded solder.



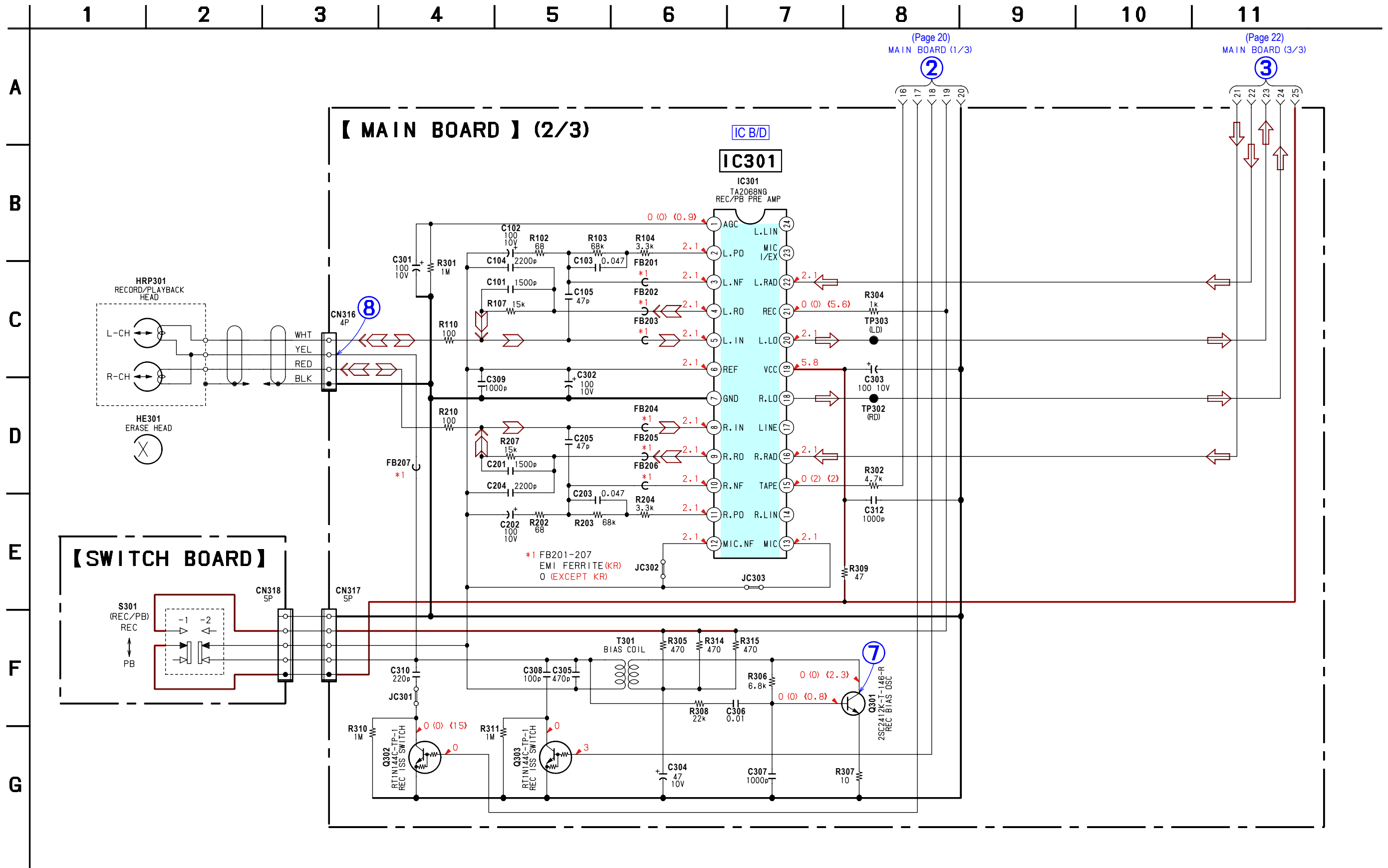
5-4. PRINTED WIRING BOARDS – KEY, POWER Section – • See page 17 for Circuit Boards Location. •  : Uses unleaded solder.



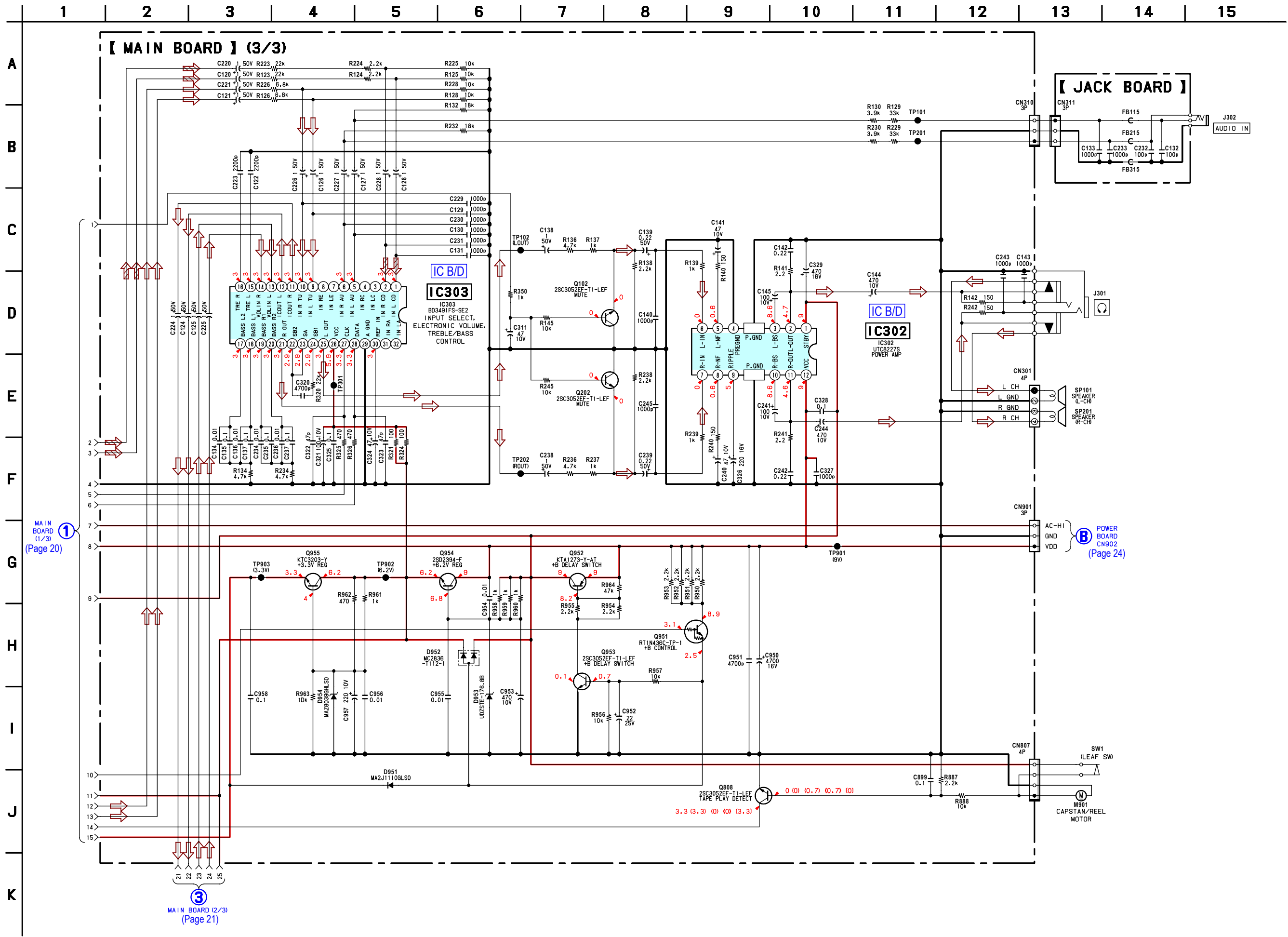
5-5. SCHEMATIC DIAGRAM – MAIN Section (1/3) – • See page 17 for waveforms. • See page 25, 26 for IC Block Diagrams. • See page 28 for IC Pin Function Description of IC801.



5-6. SCHEMATIC DIAGRAM – MAIN Section (2/3) – • See page 17 for waveforms. • See page 26 for IC Block Diagram.



5-7. SCHEMATIC DIAGRAM – MAIN Section (3/3) – • See page 27 for IC Block Diagrams.

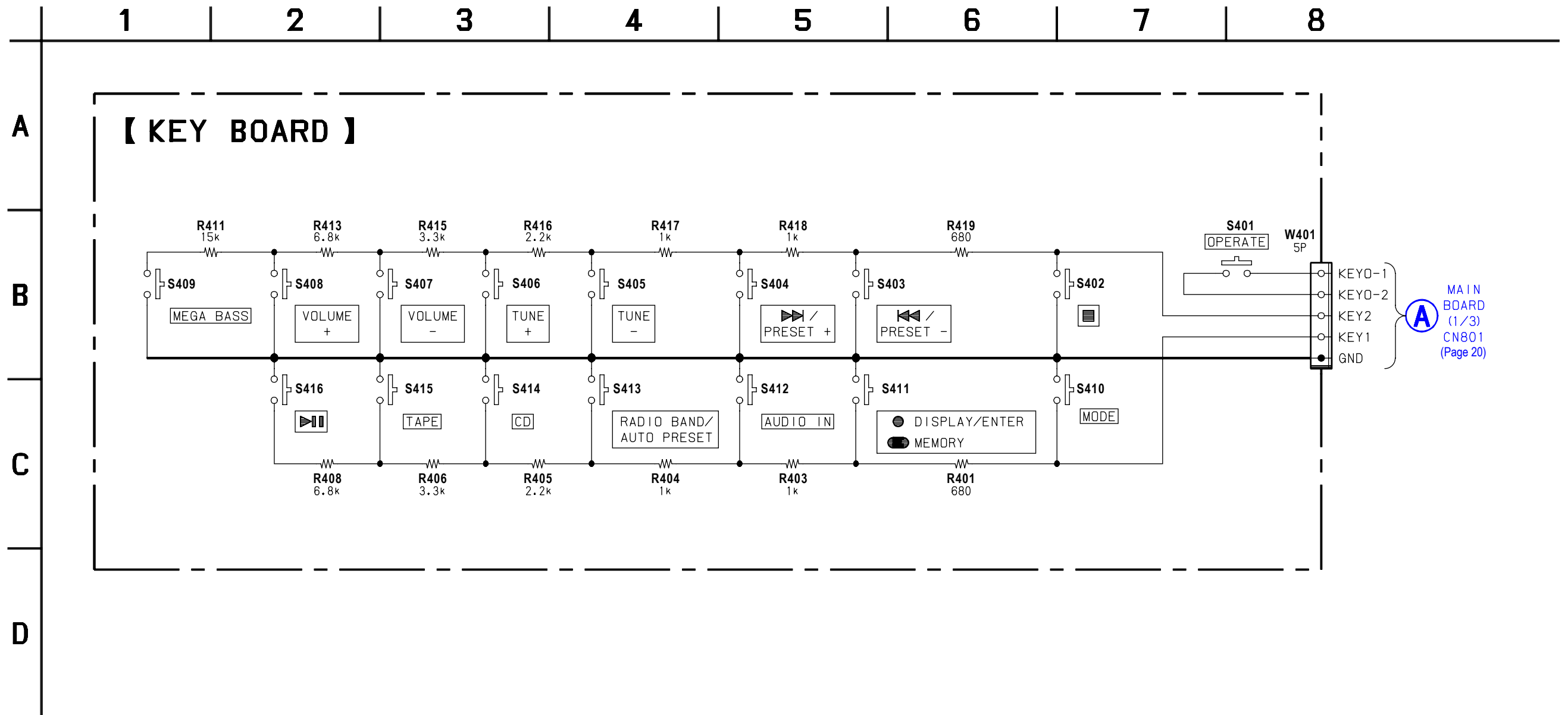


MAIN BOARD (1/3) (Page 20)

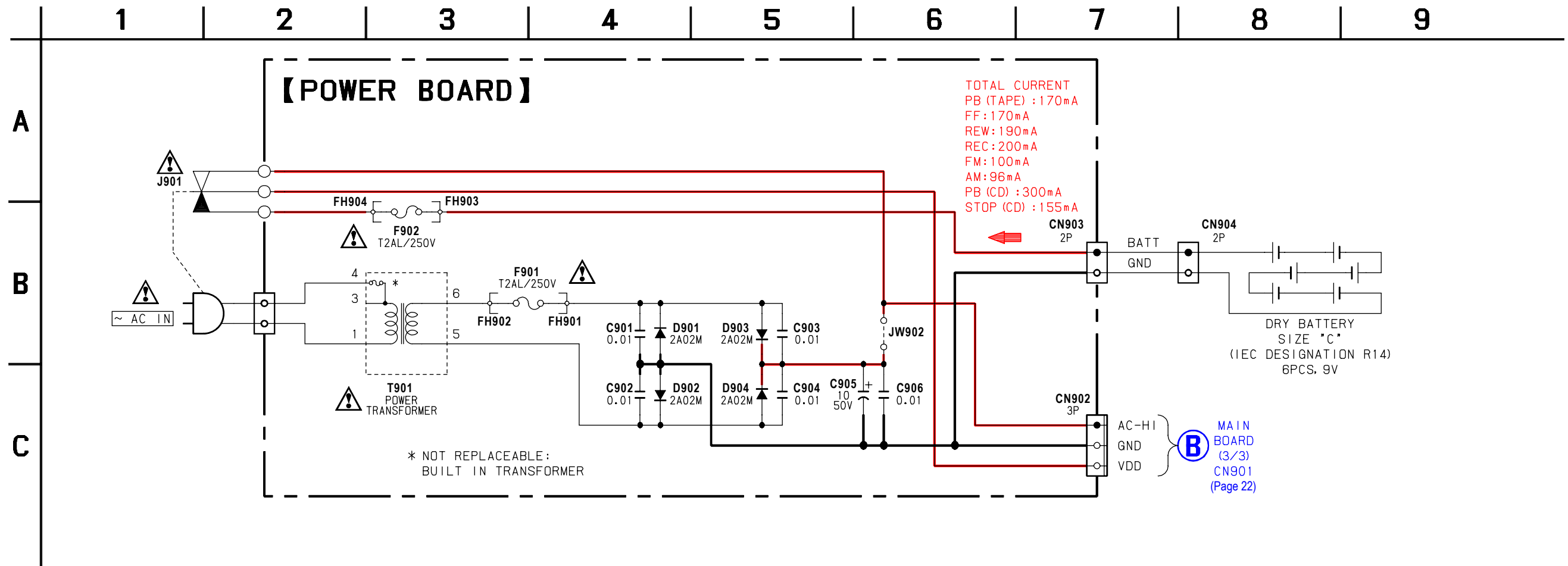
MAIN BOARD (2/3) (Page 21)

POWER BOARD CN902 (Page 24)

5-8. SCHEMATIC DIAGRAM – KEY Section –



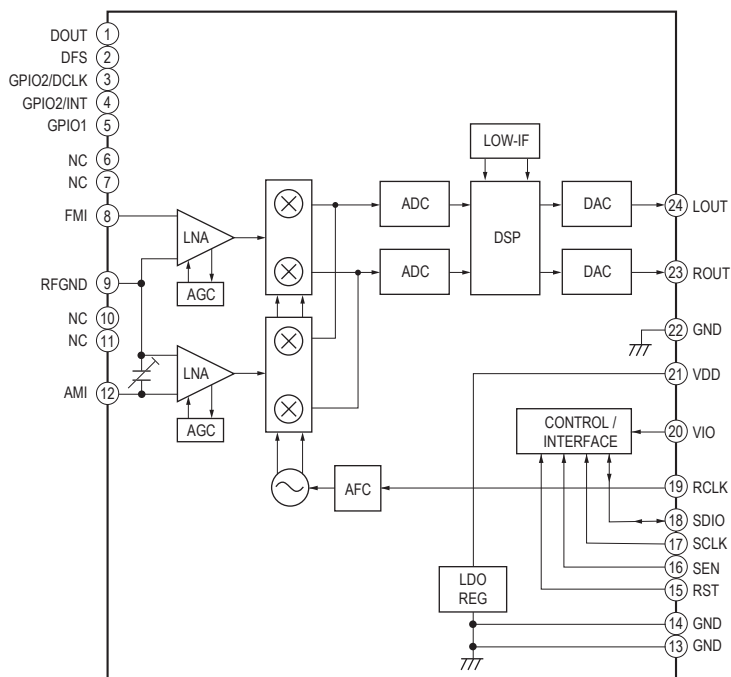
5-9. SCHEMATIC DIAGRAM – POWER Section –



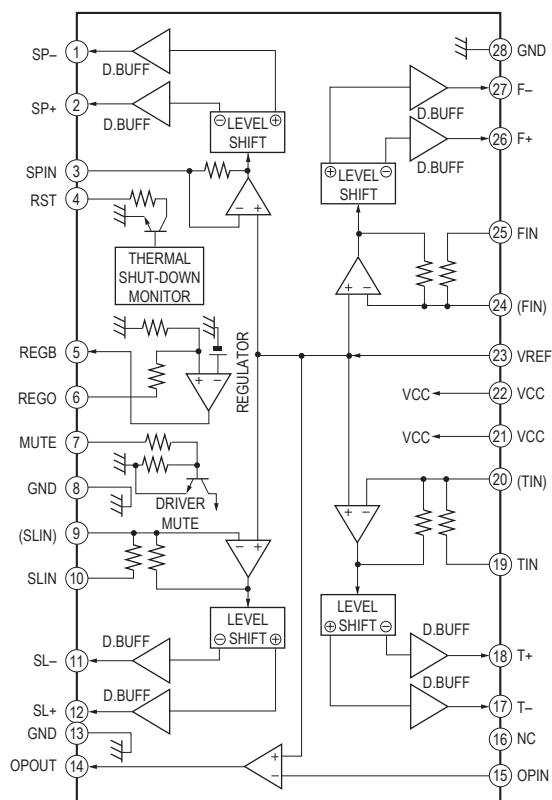


• IC Block Diagrams

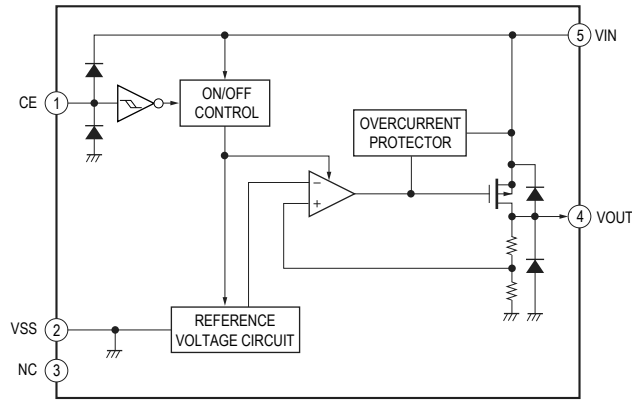
IC1 SI4730-C40 (MAIN Board (1/3))



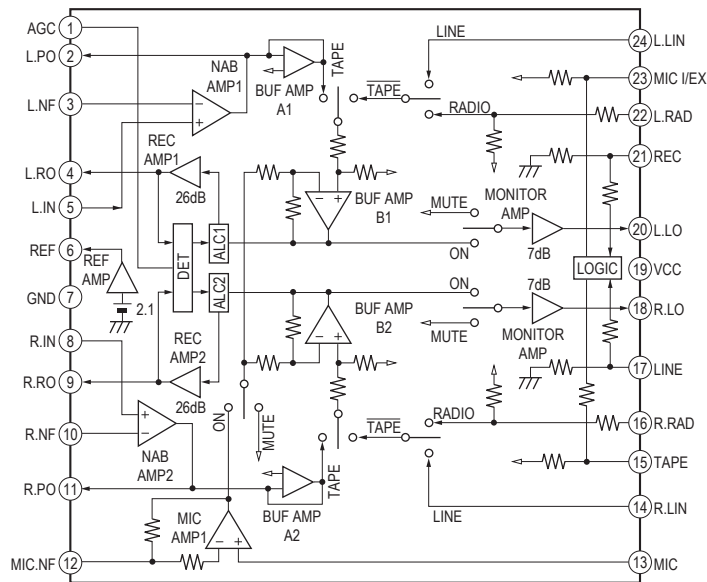
IC701 BA5826HFP-E2 (MAIN Board (1/3))



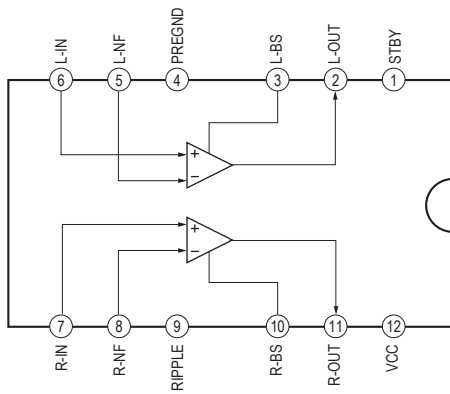
**IC803 S-T111B15MC-OGATFG (MAIN Board (1/3))**  
**IC804 S-T111B15MC-OGATFG (MAIN Board (1/3))**



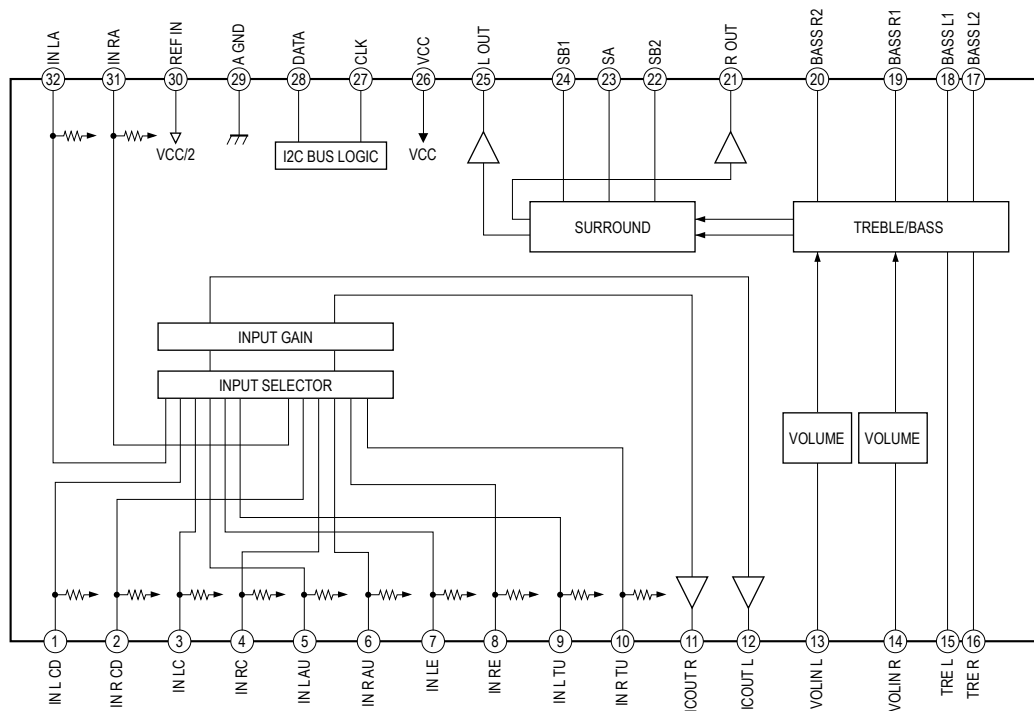
**IC301 TA2068NG (MAIN Board (2/3))**



IC302 UTC8227S (MAIN Board (3/3))



IC303 BD3491FS-SE2 (MAIN Board (3/3))



## • IC Pin Function Description

## MAIN BOARD (1/3) IC801 TC94B10FG-919

(CD-RF AMP/SERVO CONTROL, AUDIO DAC, DSP, LCD DRIVER, SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1	FMO	O	Feed (Sled) servo equalizer signal output
2	DMO	O	Disc (spindle) servo equalizer signal output
3	KEY1-I	I	Key signal input
4	KEY2-I	I	Key signal input
5	CD_LIMIT/LID IN	I	CD Door open/close and CD Limit switch signal input
6	BATT-CHK-H	I	Battery voltage power check input
7	6V CHK	I	6.2V power check input
8	SIMUKE	I	Model destination input
9	VREG	—	1.5V reference voltage terminal
10	MXO	O	Sub system oscillation output (75kHz)
11	MXI	I	Sub system oscillation input (75kHz)
12	VDD3	—	Power supply (VDD+3.3V (I/O))
13	VSS	—	Ground
14	VSSP3	—	Ground (VCO)
15	VCOI	I	VCO input
16	VDDP3	—	Power supply (VDD+3.3V (VCO))
17	FUNC_TC	O	Tape function select signal output
18	RESET	I	Initial reset signal input
19	VDD1	—	Power supply (VDD+1.5V)
20	VSS	—	Ground
21	DVSS3	—	Ground (DAC)
22	LO	O	CD audio L-CH signal output
23	DVR	I	DAC reference voltage terminal
24	RO	O	CD audio R-CH signal output
25	DVDD3	—	Power supply (VDD+3.3V (DAC))
26	XVSS1	—	Ground (OSC)
27	XI	I	Main system oscillation input (16.93MHz)
28	XO	O	Main system oscillation output (16.94MHz)
29	XVDD1	—	Power supply (VDD+1.5V (OSC))
30	ACDC CHK	I	AC power supply check signal input (L:DC, H:AC)
31	TU-DAT	I/O	Tuner serial I2C data input/output
32	TU-CLK	O	Tuner serial I2C clock output
33	EEP-CLK	O	EEPROM/EVR control serial I2C clock output
34	EEP-DAT	I/O	EEPROM/EVR control serial I2C data input/output
35	TU RESET	O	Tuner reset signal output
36	VSS	—	Ground
37	VDD1	—	Power supply (VDD+1.5V)
38	P-CONT	O	Power control signal output
39	A-MUTE	O	Audio mute signal output
40	MOTOR-MUTE	O	Motor drive mute signal output
41	ISS1	O	Tuner beat change signal output
42	ISS2	O	Tuner beat change signal output
43	POWER KEY	I	Power key signal input
44	AUDIO IN CHECK	—	Not used (Pull up)
45	TC-OPERATION	I	Tape play detect signal input (L:Play)
46	TAPE REC	I	Tape REC signal input (H:REC)
47 to 49	SEG11 to SEG9	O	LCD segment driver signal output
50	VDD3	—	Power supply (+3.3V)
51 to 58	SEG8 to SEG1	O	LCD segment driver signal output
59 to 62	COM4 to COM1	O	LCD common driver signal output
63	VDDM1	—	Power supply (Memory VDD+1.5V)
64	HOLD	I	Hold input
65	VSS	—	Ground
66	VDD1	—	Power supply (VDD+1.5V)
67	PDO	O	EFM and PLCK phase deference signal output
68	TMAX	O	TMAX detection result output

Pin No.	Pin Name	I/O	Description
69	LPFN	I	PLL circuit LPF amplifier inversion input
70	LPFO	O	PLL circuit LPF amplifier output
71	PVREF	—	PLL circuit 1.65V reference voltage terminal
72	VCOF	—	VCO filter terminal
73	RVDD3	—	Power supply (CD+3.3V)
74	SLCO	O	EFM slice level output terminal
75	RFI	I	RF signal input
76	RFRPI	I	RF ripple signal input
77	RFGO	O	RF equalizer amplifier output
78	AGCI	I	RF signal AGC amplifier input
79	RFO	O	RF signal generation amplifier output
80	EQSET	O	Test monitor output
81	RVSS3	—	Power supply (+3.3V (RF/VCO/PLL))
82	FN12 (C)	I	CD pick-up main beam C signal input
83	FN11 (A)	I	CD pick-up main beam A signal input
84	FP12 (D)	I	CD pick-up main beam D signal input
85	FP11 (B)	I	CD pick-up main beam B signal input
86	TPI (F)	I	CD pick-up main beam F signal input
87	TNI (E)	I	CD pick-up main beam E signal input
88	VRO	—	Reference voltage (1.65V) terminal
89	MDI	I	Monitor photo diode amplifier input
90	LDO	O	Laser diode drive control signal output
91	AVSS3	—	Ground
92	RFZI	I	RF ripple zero-cross signal input
93	RFRP	O	RF ripple signal output
94	SBAD	O	RFDC output
95	FEI	O	Focus error signal output
96	TEI	O	Tracking error signal output
97	TEZI	I	Tracking error zero -cross signal input
98	AVDD3	—	Power supply (+3.3V)
99	FOO	O	Focus servo equalizer signal output
100	TRO	O	Tracking servo equalizer signal output

## SECTION 6 EXPLODED VIEWS

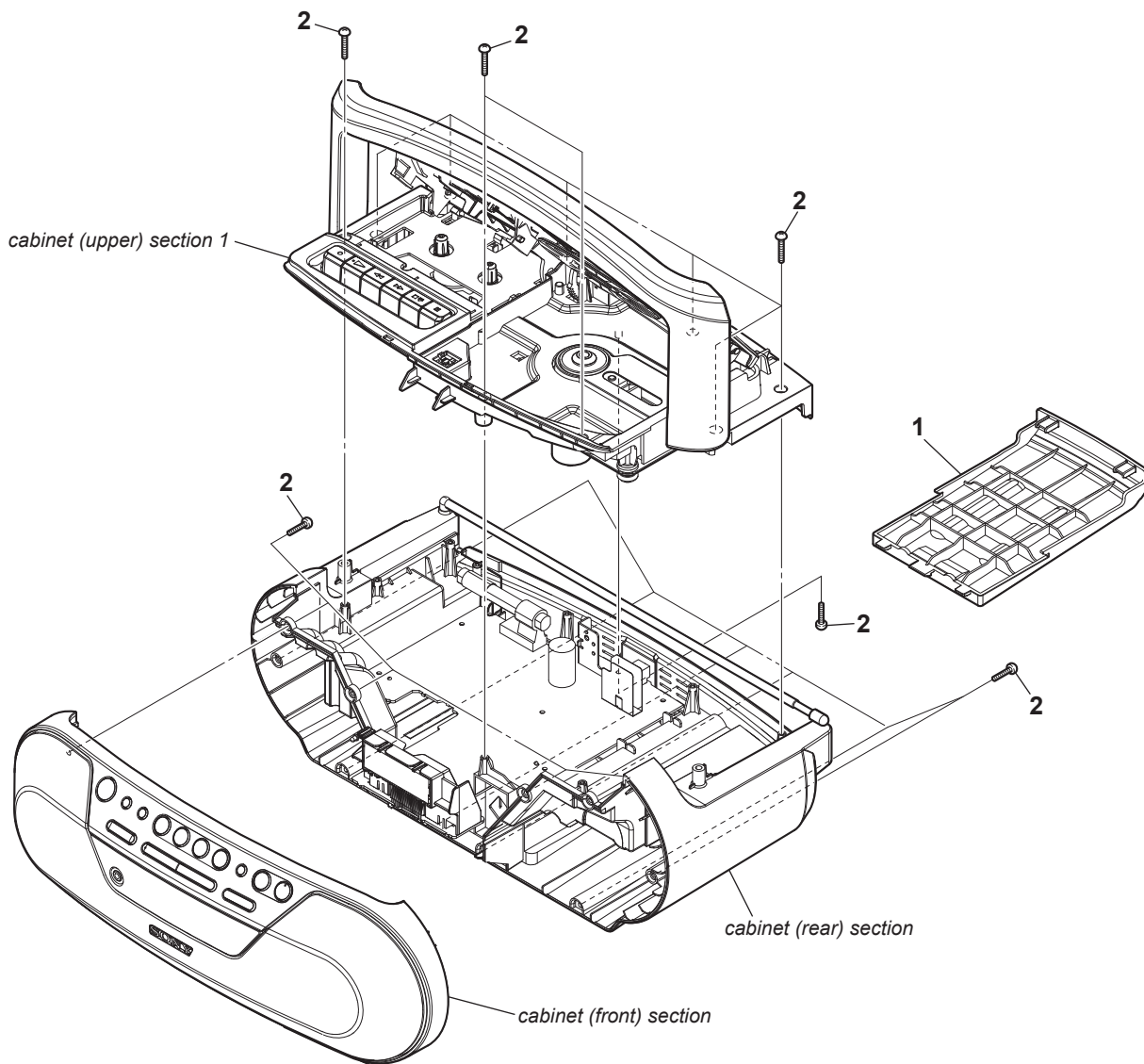
**Note:**

- -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
- Accessories are given in the last of the electrical parts list.
- Abbreviation  
 AUS : Australian model  
 KR : Korean model  
 SP : Singapore model  
 TH : Thai model  
 TW : Taiwan model

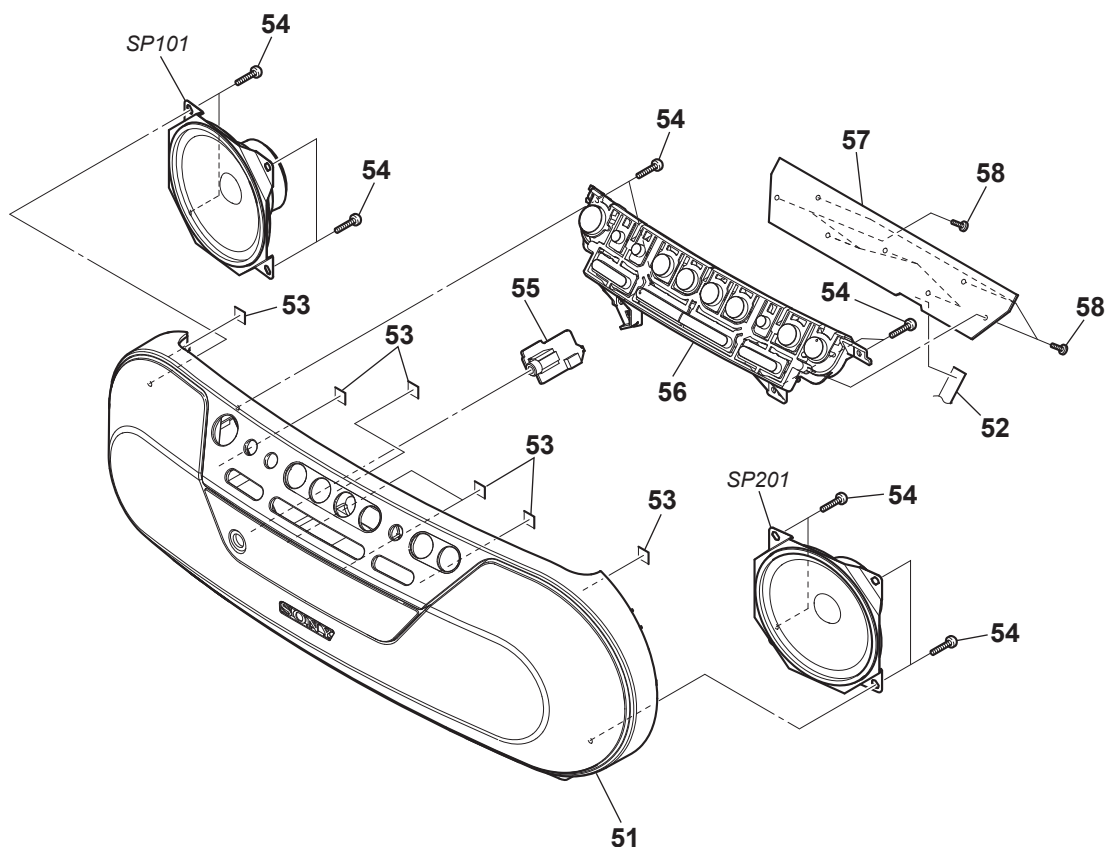
The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

### 6-1. OVERALL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-167-386-01	LID, BATTERY CASE		2	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	

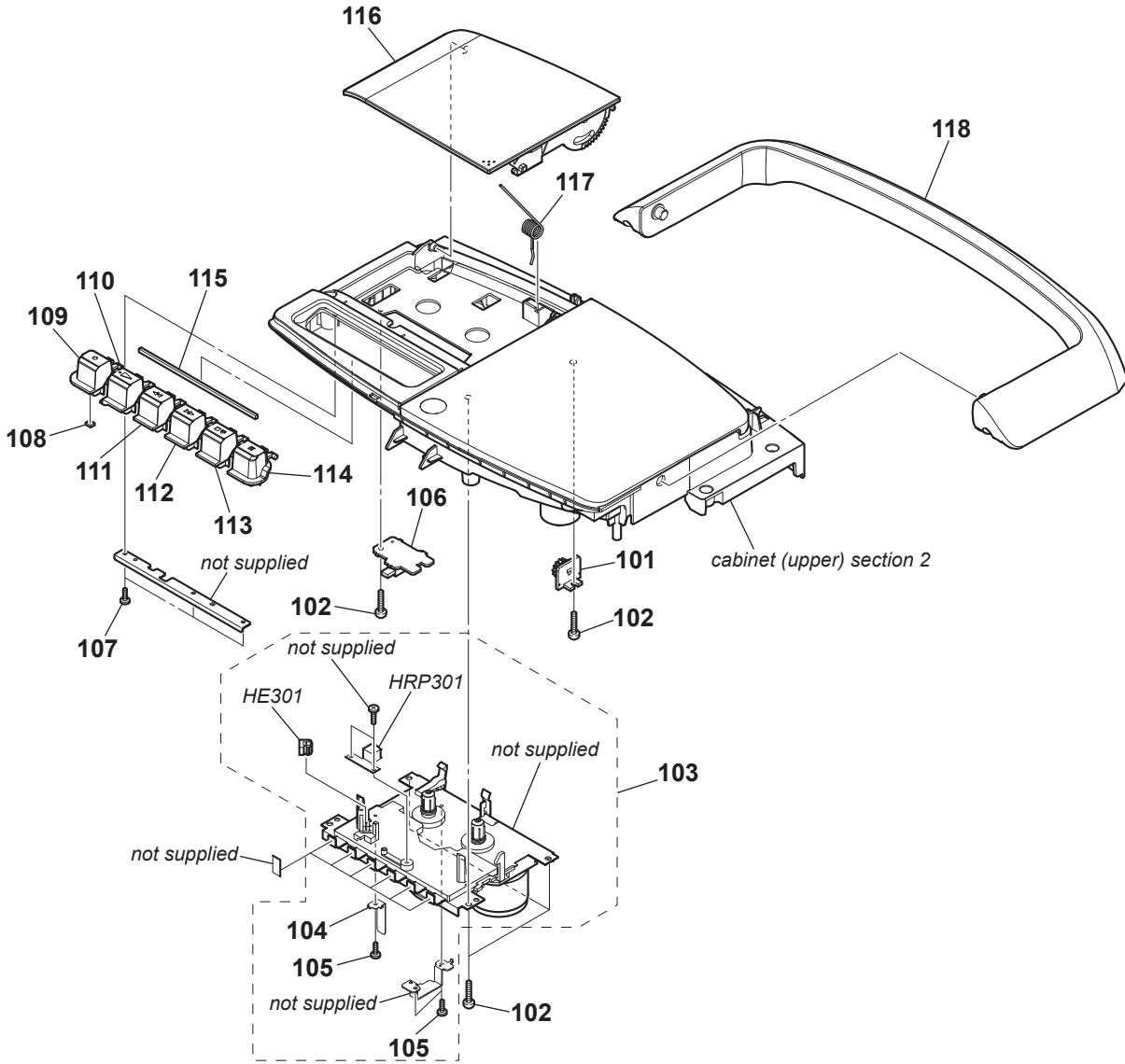
6-2. CABINET (FRONT) SECTION



**Note:** If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-2548-744-1	CABINET (FRONT) ASSY		56	4-167-385-01	BUTTON	
52	1-831-985-32	CABLE, FLEXIBLE FLAT (5 CORE)		57	A-1760-722-A	KEY BOARD, COMPLETE	
53	3-831-441-11	CUSHION (B)		58	3-254-070-01	SCREW	
54	3-252-827-01	SCREW (B2.6), (+) BV TAPPING		SP101	1-826-280-61	SPEAKER (7.7cm) (L-CH)	
55	A-1760-723-A	JACK BOARD, COMPLETE		SP201	1-826-280-61	SPEAKER (7.7cm) (R-CH)	

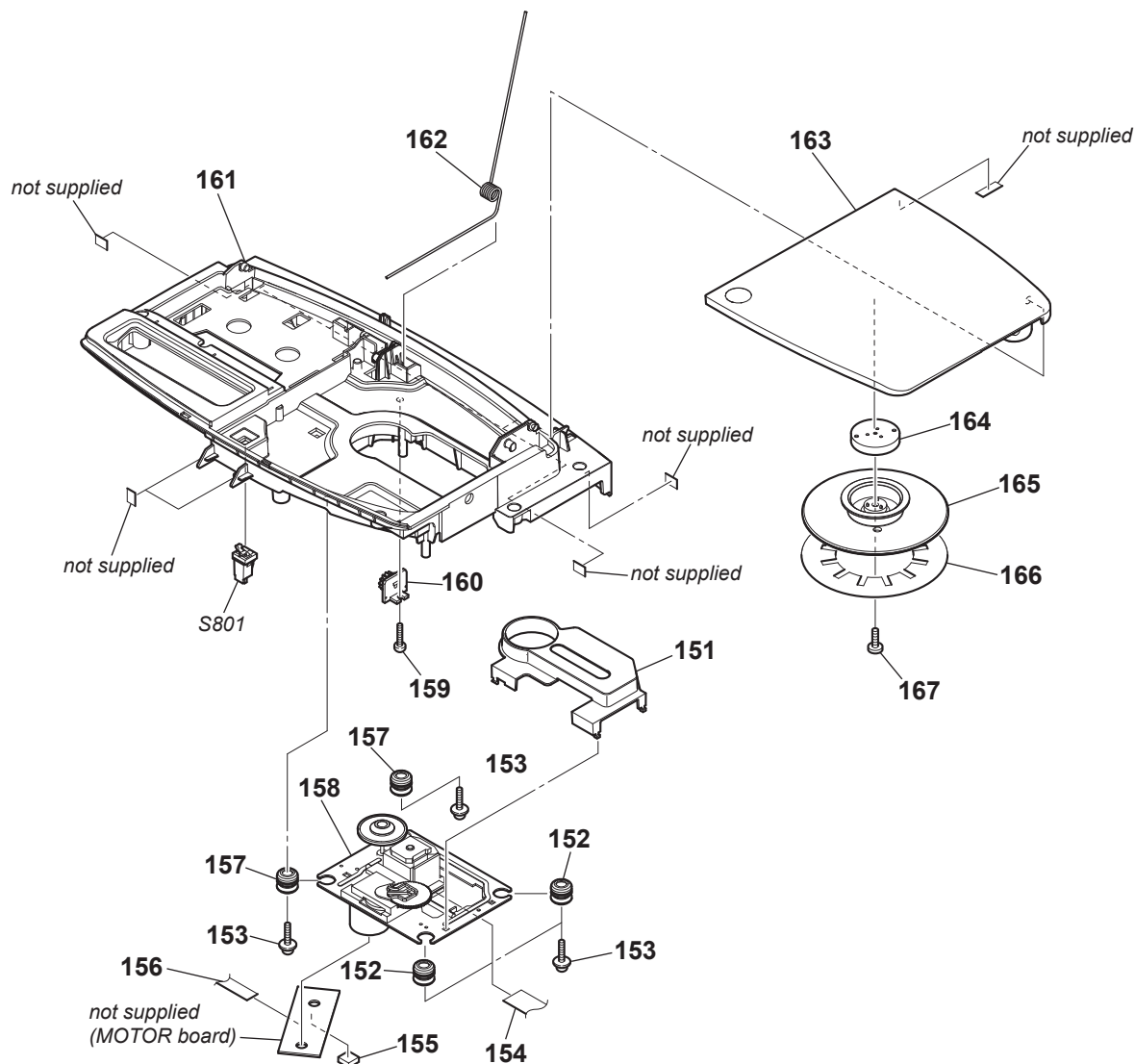
6-3. CABINET (UPPER) SECTION (1)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-047-468-21	DAMPER		111	4-167-396-01	BUTTON (REW)	
102	3-252-827-01	SCREW (B2.6), (+) BV TAPPING		112	4-167-395-01	BUTTON (FF)	
103	A-1760-733-A	MD BLOCK ASSY		113	4-167-397-01	BUTTON (STOP)	
104	4-167-410-01	LEVER (REC)		114	4-167-398-01	BUTTON (PAUSE)	
105	3-254-022-01	SCREW		115	4-183-213-01	CUSHION (CASSETTE BUTTON)	
106	A-1760-734-A	SWITCH BOARD, COMPLETE		116	4-167-392-01	LID, CASSETTE	
107	3-254-070-01	SCREW		117	4-167-415-01	SPRING, CASSETTE	
108	3-831-441-11	CUSHION (B)		118	4-167-389-01	HANDLE	
109	4-167-394-01	BUTTON (REC)		HE301	1-500-813-11	HEAD, ERASE (ERASE)	
110	4-167-393-01	BUTTON (PLAY)		HRP301	3-266-053-01	HEAD, RP (REC/PB)	



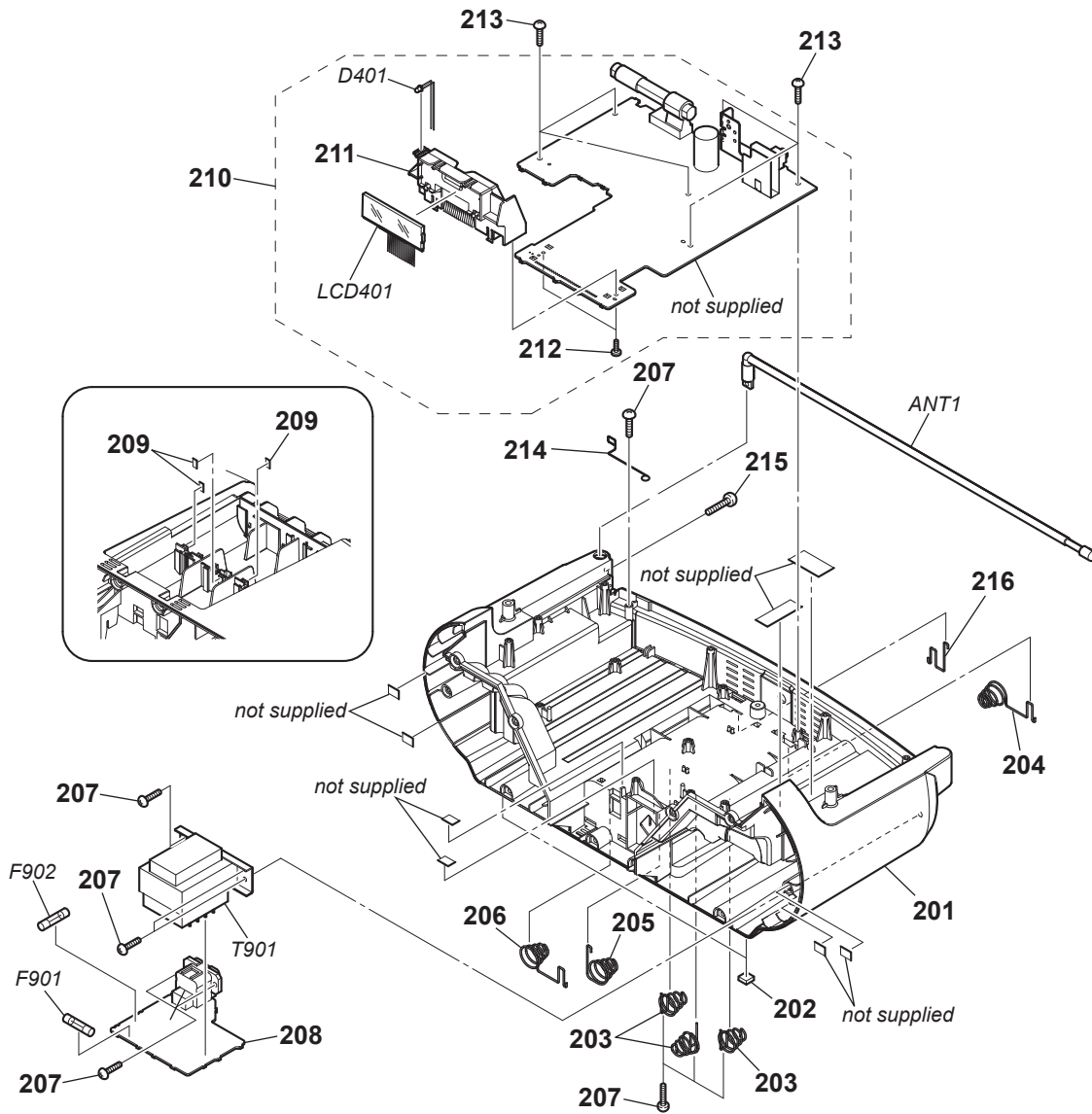
6-4. CABINET (UPPER) SECTION (2)



**Note:** If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-167-399-01	COVER, CD		160	3-047-468-11	DAMPER	
152	3-931-379-21	RUBBER, VIBRATION PROOF (RED)		161	4-167-382-01	CABINET (UPPER)	
153	3-252-828-01	SCREW (B2.6), (+) PWH TAPPING		162	4-167-416-01	SPRING, CD	
154	1-838-039-31	CABLE, FLEXIBLE FLAT (16 CORE)		163	4-167-390-01	LID, CD	
155	4-175-101-01	CUSHION (FFC)		164	1-452-899-11	MAGNET	
156	1-831-758-32	CABLE, FLEXIBLE FLAT (6 CORE)		165	4-167-391-01	PLATE, CHUCKING	
157	3-931-379-31	RUBBER, VIBRATION PROOF (GREEN)		166	3-258-284-01	SHEET (CHUCK)	
△ 158	A-1780-028-A	OPTICAL PICK-UP (DA11MMVGP)		167	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
159	3-252-827-01	SCREW (B2.6), (+) BV TAPPING		S801	1-692-960-11	SWITCH, PUSH (1 KEY) (PUSH OPEN/CLOSE ▲)	

6-5. CABINET (REAR) SECTION



Ref. No.	Part No.	Description	Remark
201	4-167-383-11	CABINET (REAR)	
202	4-167-417-01	FOOT (FRONT), RUBBER	
203	3-252-540-01	SPRING (+-), BATTERY	
204	4-173-526-01	TERMINAL (A (+,-)), BATTERY	
205	4-167-412-01	TERMINAL (-), BATTERY	
206	4-173-527-01	TERMINAL (B (+,-)), BATTERY	
207	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
208	A-1761-363-A	POWER BOARD, COMPLETE	
209	3-831-441-11	CUSHION (B)	
210	A-1769-981-A	MAIN BOARD, COMPLETE (SP)	
210	A-1770-002-A	MAIN BOARD, COMPLETE (AUS,TH,TW)	
210	A-1770-009-A	MAIN BOARD, COMPLETE (KR)	
211	4-167-387-01	HOLDER (LCD1026)	

Ref. No.	Part No.	Description	Remark
212	3-254-070-01	SCREW	
213	3-254-151-01	SCREW (B2.6), (+) P TAPPING	
214	4-167-413-01	TERMINAL, ANTENNA	
215	3-252-833-01	SCREW (M3), (+) P	
216	4-167-411-01	TERMINAL (+), BATTERY	
ANT1	1-754-691-11	ANTENNA, TELESCOPIC (FM)	
D401	6-503-151-01	LED L-3A7HD-16LSF42.5-01 (OPR/BATT)	
△ F901	1-533-468-12	FUSE, GLASS (DIA. 5) (T2AL/250V)	
△ F902	1-533-468-12	FUSE, GLASS (DIA. 5) (T2AL/250V)	
LCD401	1-811-085-11	DISPLAY PANEL, LIQUID CRYSTAL	
△ T901	1-445-818-11	TRANSFORMER, POWER (TW)	
△ T901	1-445-820-11	TRANSFORMER, POWER (EXCEPT TW)	

## SECTION 7 ELECTRICAL PARTS LIST

JACK
KEY
MAIN

**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.
- RESISTORS  
All resistors are in ohms.  
METAL: Metal-film resistor.  
METAL OXIDE: Metal oxide-film resistor.  
F: nonflammable
- CAPACITORS  
uF:  $\mu$ F
- COILS  
uH:  $\mu$ H
- SEMICONDUCTORS  
In each case,  $\mu$ : for example:  
uA. . . :  $\mu$ A. . . , uPA. . . ,  $\mu$ PA. . . ,  
uPB. . . :  $\mu$ PB. . . , uPC. . . ,  $\mu$ PC. . . ,  
uPD. . . :  $\mu$ PD. . .
- Abbreviation  
AUS : Australian model  
KR : Korean model  
SP : Singapore model  
TH : Thai model  
TW : Taiwan model

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-1760-723-A	JACK BOARD, COMPLETE *****		S410	1-786-050-21	SWITCH, KEYBOARD (MODE)	
		< CAPACITOR >		S411	1-786-050-21	SWITCH, KEYBOARD (●DISPLAY/ENTER ■ MEMORY)	
C132	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	S412	1-786-050-21	SWITCH, KEYBOARD (AUDIO IN)	
C133	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	S413	1-786-050-21	SWITCH, KEYBOARD (RADIO BAND/AUTO PRESET)	
C232	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	S414	1-786-050-21	SWITCH, KEYBOARD (CD)	
C233	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	S415	1-786-050-21	SWITCH, KEYBOARD (TAPE)	
		< FERRITE BEAD >		S416	1-786-050-21	SWITCH, KEYBOARD (▶▶)	
				*****			
FB115	1-400-981-21	INDUCTOR (EMI FERRITE)		A-1769-981-A	MAIN BOARD, COMPLETE (SP)		
FB215	1-400-981-21	INDUCTOR (EMI FERRITE)		A-1770-002-A	MAIN BOARD, COMPLETE (AUS,TH,TW)		
FB315	1-400-981-21	INDUCTOR (EMI FERRITE)		A-1770-009-A	MAIN BOARD, COMPLETE (KR)		
		< JACK >		*****			
J302	1-566-822-51	JACK (AUDIO IN)		3-254-070-01	SCREW		
*****				4-167-387-01	HOLDER (LCD1026)		
						< CAPACITOR >	
	A-1760-722-A	KEY BOARD, COMPLETE *****		C1	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
		< RESISTOR >		C2	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
R401	1-216-819-11	METAL CHIP 680 5%	1/10W	C3	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
R403	1-216-821-11	METAL CHIP 1K 5%	1/10W	C4	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
R404	1-216-821-11	METAL CHIP 1K 5%	1/10W	C5	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
R405	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	C7	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V
R406	1-216-827-11	METAL CHIP 3.3K 5%	1/10W	C8	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
R408	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W	C9	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
R411	1-216-835-11	METAL CHIP 15K 5%	1/10W	C10	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
R413	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W	C11	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
R415	1-216-827-11	METAL CHIP 3.3K 5%	1/10W	C13	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
R416	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	C14	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
R417	1-216-821-11	METAL CHIP 1K 5%	1/10W	C15	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
R418	1-216-821-11	METAL CHIP 1K 5%	1/10W	C16	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
R419	1-216-819-11	METAL CHIP 680 5%	1/10W	C17	1-125-837-91	CERAMIC CHIP 1uF 10%	6.3V
		< SWITCH >		C18	1-126-947-11	ELECT 47uF 20%	35V
S401	1-786-050-21	SWITCH, KEYBOARD (OPERATE)		C21	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
S402	1-786-050-21	SWITCH, KEYBOARD (■)		C22	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
S403	1-786-050-21	SWITCH, KEYBOARD (◀◀/PRESET -)		C24	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
S404	1-786-050-21	SWITCH, KEYBOARD (▶▶/PRESET +)		C25	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
S405	1-786-050-21	SWITCH, KEYBOARD (TUNE -)		C101	1-162-965-11	CERAMIC CHIP 0.0015uF 10%	50V
S406	1-786-050-21	SWITCH, KEYBOARD (TUNE +)		C102	1-104-658-91	ELECT 100uF 20%	10V
S407	1-786-050-21	SWITCH, KEYBOARD (VOLUME -)		C103	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V
S408	1-786-050-21	SWITCH, KEYBOARD (VOLUME +)		C104	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
S409	1-786-050-21	SWITCH, KEYBOARD (MEGA BASS)		C105	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
				C120	1-126-960-11	ELECT 1uF 20%	50V
				C121	1-126-960-11	ELECT 1uF 20%	50V

## MAIN

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
C122	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C312	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		
C124	1-126-960-11	ELECT	1uF	20%	50V	C320	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V		
C125	1-126-960-11	ELECT	1uF	20%	50V	C321	1-104-658-91	ELECT	100uF	20%	10V		
C126	1-126-960-11	ELECT	1uF	20%	50V	C322	1-162-923-11	CERAMIC CHIP	47PF	5%	50V		
C127	1-126-960-11	ELECT	1uF	20%	50V	C323	1-162-923-11	CERAMIC CHIP	47PF	5%	50V		
C128	1-126-960-11	ELECT	1uF	20%	50V	C324	1-126-947-11	ELECT	47uF	20%	35V		
C129	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C325	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C130	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C326	1-126-934-11	ELECT	220uF	20%	16V		
C131	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C327	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		
C134	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C328	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C135	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C329	1-126-935-11	ELECT	470uF	20%	16V		
C136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C701	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V		
C137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C702	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C138	1-126-960-11	ELECT	1uF	20%	50V	C703	1-126-923-91	ELECT	220uF	20%	10V		
C139	1-126-957-11	ELECT	0.22uF	20%	50V	C704	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		
C140	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C801	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V		
C141	1-126-947-11	ELECT	47uF	20%	35V	C802	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V		
C142	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	C803	1-126-947-11	ELECT	47uF	20%	35V		
C143	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C804	1-126-947-11	ELECT	47uF	20%	35V		
C144	1-126-925-91	ELECT	470uF	20%	10V	C805	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C145	1-104-658-91	ELECT	100uF	20%	10V	C806	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C201	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	C810	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C202	1-104-658-91	ELECT	100uF	20%	10V	C811	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V		
C203	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C812	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V		
C204	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C813	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C205	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C814	1-104-658-91	ELECT	100uF	20%	10V		
C220	1-126-960-11	ELECT	1uF	20%	50V	C815	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C221	1-126-960-11	ELECT	1uF	20%	50V	C816	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C223	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C817	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V		
C224	1-126-960-11	ELECT	1uF	20%	50V	C818	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C225	1-126-960-11	ELECT	1uF	20%	50V	C819	1-104-662-91	ELECT	22uF	20%	25V		
C226	1-126-960-11	ELECT	1uF	20%	50V	C820	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C227	1-126-960-11	ELECT	1uF	20%	50V	C821	1-126-963-11	ELECT	4.7uF	20%	50V		
C228	1-126-960-11	ELECT	1uF	20%	50V	C822	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C229	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C823	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C230	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C824	1-162-962-11	CERAMIC CHIP	470PF	10%	50V		
C231	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C825	1-162-923-11	CERAMIC CHIP	47PF	5%	50V		
C234	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C827	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		
C235	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C828	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		
C236	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C829	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C237	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C830	1-162-962-11	CERAMIC CHIP	470PF	10%	50V		
C238	1-126-960-11	ELECT	1uF	20%	50V	C831	1-162-962-11	CERAMIC CHIP	470PF	10%	50V		
C239	1-126-957-11	ELECT	0.22uF	20%	50V	C832	1-162-962-11	CERAMIC CHIP	470PF	10%	50V		
C240	1-126-947-11	ELECT	47uF	20%	35V	C834	1-104-658-91	ELECT	100uF	20%	10V		
C241	1-104-658-91	ELECT	100uF	20%	10V	C835	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C242	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	C851	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C243	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C852	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C244	1-126-925-91	ELECT	470uF	20%	10V	C853	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C245	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C854	1-162-923-11	CERAMIC CHIP	47PF	5%	50V		
C301	1-104-658-91	ELECT	100uF	20%	10V	C855	1-162-923-11	CERAMIC CHIP	47PF	5%	50V		
C302	1-104-658-91	ELECT	100uF	20%	10V	C856	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V		
C303	1-104-658-91	ELECT	100uF	20%	10V	C858	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		
C304	1-126-947-11	ELECT	47uF	20%	35V	C859	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		
C305	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C861	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C862	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C307	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C863	1-126-947-11	ELECT	47uF	20%	35V		
C308	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C864	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V		
C309	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C865	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C310	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C866	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		
C311	1-126-947-11	ELECT	47uF	20%	35V	C867	1-162-923-11	CERAMIC CHIP	47PF	5%	50V		

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C876	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V			< FERRITE BEAD >	
C877	1-104-658-91	ELECT	100uF 20% 10V				
C878	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V	FB201	1-216-864-11	SHORT CHIP 0 (EXCEPT KR)	
C879	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V	FB201	1-400-979-21	INDUCTOR (EMI FERRITE) (KR)	
C880	1-104-658-91	ELECT	100uF 20% 10V	FB202	1-216-864-11	SHORT CHIP 0 (EXCEPT KR)	
				FB202	1-400-979-21	INDUCTOR (EMI FERRITE) (KR)	
C881	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V	FB203	1-216-864-11	SHORT CHIP 0 (EXCEPT KR)	
C882	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C883	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	FB203	1-400-979-21	INDUCTOR (EMI FERRITE) (KR)	
C884	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	FB204	1-216-864-11	SHORT CHIP 0 (EXCEPT KR)	
C885	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	FB204	1-400-979-21	INDUCTOR (EMI FERRITE) (KR)	
				FB205	1-216-864-11	SHORT CHIP 0 (EXCEPT KR)	
C886	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	FB205	1-400-979-21	INDUCTOR (EMI FERRITE) (KR)	
C887	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C888	1-104-658-91	ELECT	100uF 20% 10V	FB206	1-216-864-11	SHORT CHIP 0 (EXCEPT KR)	
C889	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	FB206	1-400-979-21	INDUCTOR (EMI FERRITE) (KR)	
C890	1-104-662-91	ELECT	22uF 20% 25V	FB207	1-216-864-11	SHORT CHIP 0 (EXCEPT KR)	
				FB207	1-400-979-21	INDUCTOR (EMI FERRITE) (KR)	
C891	1-126-947-11	ELECT	47uF 20% 35V	FB801	1-400-979-21	INDUCTOR (EMI FERRITE)	
C892	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V				
C893	1-104-658-91	ELECT	100uF 20% 10V	FB802	1-400-981-21	INDUCTOR (EMI FERRITE)	
C894	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	FB803	1-400-979-21	INDUCTOR (EMI FERRITE)	
C895	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V			< IC >	
C896	1-126-933-11	ELECT	100uF 20% 16V	IC1	6-715-094-01	IC SI4730-C40	
C897	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	IC301	6-710-092-01	IC TA2068NG(5,HZ)	
C898	1-126-933-11	ELECT	100uF 20% 16V	IC302	6-710-261-01	IC UTC8227S	
C899	1-164-156-11	CERAMIC CHIP	0.1uF 25V	IC303	6-713-384-01	IC BD3491FS-SE2	
C950	1-126-937-11	ELECT	4700uF 20% 16V	IC701	6-710-637-01	IC BA5826HFP-E2	
C951	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	IC801	6-715-264-11	IC TC94B10FG-919	
C952	1-104-662-91	ELECT	22uF 20% 25V	IC802	6-715-093-01	IC XC6216D332JR	
C953	1-126-925-91	ELECT	470uF 20% 10V	IC803	6-705-310-01	IC S-T111B15MC-OGATFG	
C954	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	IC804	6-705-310-01	IC S-T111B15MC-OGATFG	
C955	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	IC805	6-703-740-01	IC S-24CS02AFT-TB-G	
C956	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V			< JACK >	
C957	1-126-923-91	ELECT	220uF 20% 10V				
C958	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	J301	1-815-325-11	JACK (♁)	
		< CONNECTOR >				< JUMPER RESISTOR >	
CN1	1-815-443-11	PIN, CONNECTOR (PWB) 2P		JC301	1-216-864-11	SHORT CHIP 0	
CN301	1-815-445-11	PIN, CONNECTOR (PWB) 4P		JC302	1-216-864-11	SHORT CHIP 0	
CN310	1-815-551-11	PIN, CONNECTOR (PWB) 3P		JC303	1-216-864-11	SHORT CHIP 0	
CN316	1-815-445-11	PIN, CONNECTOR (PWB) 4P		JC802	1-216-864-11	SHORT CHIP 0	
CN801	1-784-766-11	CONNECTOR, FFC 5P				< COIL >	
CN807	1-815-445-11	PIN, CONNECTOR (PWB) 4P		L1	1-457-903-11	COIL, BAR ANTENNA (AM)	
CN808	1-784-767-11	CONNECTOR, FFC 6P		L2	1-410-517-11	INDUCTOR 47uH	
CN810	1-770-646-11	CONNECTOR, FFC/FPC 16P		L3	1-216-864-11	SHORT CHIP 0	
CN901	1-815-444-11	PIN, CONNECTOR (PWB) 3P		L4	1-412-006-31	INDUCTOR 10uH	
		< DIODE >		L5	1-410-750-41	INDUCTOR 0.47uH	
D1	8-719-062-51	DIODE 1PS226-115		L6	1-412-975-31	INDUCTOR 0.47uH	
D2	8-719-991-33	DIODE 1SS133T-77		L802	1-410-509-11	INDUCTOR 10uH	
D3	8-719-991-33	DIODE 1SS133T-77		L803	1-410-513-11	INDUCTOR 22uH	
D401	6-503-151-01	LED L-3A7HD-16LSF42.5-01 (OPR/BATT)		L804	1-410-750-41	INDUCTOR 0.47uH	
D801	6-501-817-01	DIODE MA2J1110GLSO		L805	1-410-517-11	INDUCTOR 47uH	
D806	6-501-817-01	DIODE MA2J1110GLSO				< LIQUID CRYSTAL DISPLAY >	
D807	6-501-817-01	DIODE MA2J1110GLSO		LCD401	1-811-085-11	DISPLAY PANEL, LIQUID CRYSTAL	
D808	6-500-335-01	DIODE MC2836-T112-1				< TRANSISTOR >	
D951	6-501-817-01	DIODE MA2J1110GLSO					
D952	6-500-334-01	DIODE MC2836-T112-1					
D953	8-719-978-33	DIODE DTZ-TT11-6.8B		Q102	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
D954	6-501-719-01	DIODE MAZ8039GHLS0		Q202	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
				Q301	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
				Q302	8-729-027-46	TRANSISTOR DTC114YKA-T146	

**MAIN**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q303	8-729-027-46	TRANSISTOR DTC114YKA-T146		R240	1-216-811-11	METAL CHIP 150	5% 1/10W
Q701	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF		R241	1-216-789-11	METAL CHIP 2.2	5% 1/10W
Q804	6-552-482-01	FET INJ0203AC1-T112-1		R242	1-216-811-11	METAL CHIP 150	5% 1/10W
Q805	8-729-027-46	TRANSISTOR DTC114YKA-T146		R245	1-216-833-11	METAL CHIP 10K	5% 1/10W
Q808	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R301	1-216-857-11	METAL CHIP 1M	5% 1/10W
Q951	6-551-444-01	TRANSISTOR RT1N436C-TP-1		R302	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
Q952	8-729-040-76	TRANSISTOR KTA1273-Y-AT		R304	1-216-821-11	METAL CHIP 1K	5% 1/10W
Q953	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R305	1-216-817-11	METAL CHIP 470	5% 1/10W
Q954	8-729-018-99	TRANSISTOR 2SD2394-F		R306	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W
Q955	8-729-036-86	TRANSISTOR KTC3203Y-AT		R307	1-216-797-11	METAL CHIP 10	5% 1/10W
< RESISTOR >				R308	1-216-837-11	METAL CHIP 22K	5% 1/10W
R1	1-216-797-11	METAL CHIP 10	5% 1/10W	R309	1-216-805-11	METAL CHIP 47	5% 1/10W
R3	1-216-821-11	METAL CHIP 1K	5% 1/10W	R310	1-216-857-11	METAL CHIP 1M	5% 1/10W
R4	1-216-821-11	METAL CHIP 1K	5% 1/10W	R311	1-216-857-11	METAL CHIP 1M	5% 1/10W
R6	1-216-821-11	METAL CHIP 1K	5% 1/10W	R314	1-216-817-11	METAL CHIP 470	5% 1/10W
R7	1-216-821-11	METAL CHIP 1K	5% 1/10W	R315	1-216-817-11	METAL CHIP 470	5% 1/10W
R8	1-216-821-11	METAL CHIP 1K	5% 1/10W	R320	1-216-837-11	METAL CHIP 22K	5% 1/10W
R10	1-216-821-11	METAL CHIP 1K	5% 1/10W	R321	1-216-809-11	METAL CHIP 100	5% 1/10W
R11	1-216-864-11	SHORT CHIP 0		R324	1-216-809-11	METAL CHIP 100	5% 1/10W
R21	1-216-864-11	SHORT CHIP 0		R325	1-216-817-11	METAL CHIP 470	5% 1/10W
R102	1-216-807-11	METAL CHIP 68	5% 1/10W	R326	1-216-817-11	METAL CHIP 470	5% 1/10W
R103	1-216-843-11	METAL CHIP 68K	5% 1/10W	R350	1-216-821-11	METAL CHIP 1K	5% 1/10W
R104	1-216-827-11	METAL CHIP 3.3K	5% 1/10W	R410	1-216-833-11	METAL CHIP 10K	5% 1/10W
R107	1-216-835-11	METAL CHIP 15K	5% 1/10W	R701	1-216-837-11	METAL CHIP 22K	5% 1/10W
R110	1-216-809-11	METAL CHIP 100	5% 1/10W	R702	1-216-837-11	METAL CHIP 22K	5% 1/10W
R123	1-216-837-11	METAL CHIP 22K	5% 1/10W	R703	1-216-845-11	METAL CHIP 100K	5% 1/10W
R124	1-216-825-11	METAL CHIP 2.2K	5% 1/10W	R704	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R125	1-216-833-11	METAL CHIP 10K	5% 1/10W	R705	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R126	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W	R706	1-216-864-11	SHORT CHIP 0	
R128	1-216-833-11	METAL CHIP 10K	5% 1/10W	R707	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R129	1-216-839-11	METAL CHIP 33K	5% 1/10W	R708	1-216-864-11	SHORT CHIP 0	
R130	1-216-828-11	METAL CHIP 3.9K	5% 1/10W	R713	1-216-837-11	METAL CHIP 22K	5% 1/10W
R132	1-216-836-11	METAL CHIP 18K	5% 1/10W	R714	1-216-864-11	SHORT CHIP 0	
R134	1-216-829-11	METAL CHIP 4.7K	5% 1/10W	R715	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R136	1-216-829-11	METAL CHIP 4.7K	5% 1/10W	R719	1-216-864-11	SHORT CHIP 0	
R137	1-216-821-11	METAL CHIP 1K	5% 1/10W	R720	1-216-864-11	SHORT CHIP 0	
R138	1-216-825-11	METAL CHIP 2.2K	5% 1/10W	R801	1-216-864-11	SHORT CHIP 0	
R139	1-216-821-11	METAL CHIP 1K	5% 1/10W	R802	1-216-864-11	SHORT CHIP 0	
R140	1-216-811-11	METAL CHIP 150	5% 1/10W	R803	1-216-864-11	SHORT CHIP 0	
R141	1-216-789-11	METAL CHIP 2.2	5% 1/10W	R804	1-216-864-11	SHORT CHIP 0	
R142	1-216-811-11	METAL CHIP 150	5% 1/10W	R805	1-216-821-11	METAL CHIP 1K	5% 1/10W
R145	1-216-833-11	METAL CHIP 10K	5% 1/10W	R806	1-216-821-11	METAL CHIP 1K	5% 1/10W
R202	1-216-807-11	METAL CHIP 68	5% 1/10W	R807	1-216-821-11	METAL CHIP 1K	5% 1/10W
R203	1-216-843-11	METAL CHIP 68K	5% 1/10W	R808	1-216-821-11	METAL CHIP 1K	5% 1/10W
R204	1-216-827-11	METAL CHIP 3.3K	5% 1/10W	R809	1-216-813-11	METAL CHIP 220	5% 1/10W
R207	1-216-835-11	METAL CHIP 15K	5% 1/10W	R810	1-216-821-11	METAL CHIP 1K	5% 1/10W
R210	1-216-809-11	METAL CHIP 100	5% 1/10W	R811	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R223	1-216-837-11	METAL CHIP 22K	5% 1/10W	R812	1-216-864-11	SHORT CHIP 0	
R224	1-216-825-11	METAL CHIP 2.2K	5% 1/10W	R813	1-216-864-11	SHORT CHIP 0	
R225	1-216-833-11	METAL CHIP 10K	5% 1/10W	R814	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R226	1-218-867-11	METAL CHIP 6.8K	0.5% 1/10W	R815	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R228	1-216-833-11	METAL CHIP 10K	5% 1/10W	R816	1-216-853-11	METAL CHIP 470K	5% 1/10W
R229	1-216-839-11	METAL CHIP 33K	5% 1/10W	R817	1-216-864-11	SHORT CHIP 0	
R230	1-216-828-11	METAL CHIP 3.9K	5% 1/10W	R818	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R232	1-216-836-11	METAL CHIP 18K	5% 1/10W	R819	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R234	1-216-829-11	METAL CHIP 4.7K	5% 1/10W	R820	1-216-821-11	METAL CHIP 1K	5% 1/10W
R236	1-216-829-11	METAL CHIP 4.7K	5% 1/10W	R821	1-216-817-11	METAL CHIP 470	5% 1/10W
R237	1-216-821-11	METAL CHIP 1K	5% 1/10W	R822	1-216-817-11	METAL CHIP 470	5% 1/10W
R238	1-216-825-11	METAL CHIP 2.2K	5% 1/10W	R823	1-216-817-11	METAL CHIP 470	5% 1/10W
R239	1-216-821-11	METAL CHIP 1K	5% 1/10W	R824	1-216-817-11	METAL CHIP 470	5% 1/10W

**MAIN** **MOTOR** **POWER**

Ref. No.	Part No.	Description	Remark
R825	1-216-821-11	METAL CHIP 1K	5% 1/10W
R826	1-216-817-11	METAL CHIP 470	5% 1/10W
R827	1-216-821-11	METAL CHIP 1K	5% 1/10W
R828	1-216-817-11	METAL CHIP 470	5% 1/10W
R829	1-216-821-11	METAL CHIP 1K	5% 1/10W
R830	1-216-821-11	METAL CHIP 1K	5% 1/10W
R831	1-216-817-11	METAL CHIP 470	5% 1/10W
R833	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R834	1-216-833-11	METAL CHIP 10K	5% 1/10W
R835	1-216-833-11	METAL CHIP 10K	5% 1/10W
R836	1-216-833-11	METAL CHIP 10K	5% 1/10W
R837	1-216-833-11	METAL CHIP 10K	5% 1/10W
R838	1-216-833-11	METAL CHIP 10K	5% 1/10W
R839	1-216-833-11	METAL CHIP 10K	5% 1/10W
R840	1-216-833-11	METAL CHIP 10K	5% 1/10W
R841	1-216-833-11	METAL CHIP 10K	5% 1/10W
R842	1-216-833-11	METAL CHIP 10K	5% 1/10W
R843	1-216-833-11	METAL CHIP 10K	5% 1/10W
R844	1-216-833-11	METAL CHIP 10K	5% 1/10W
R845	1-216-833-11	METAL CHIP 10K	5% 1/10W
R846	1-216-833-11	METAL CHIP 10K	5% 1/10W
R847	1-216-833-11	METAL CHIP 10K	5% 1/10W
R848	1-216-833-11	METAL CHIP 10K	5% 1/10W
R849	1-216-833-11	METAL CHIP 10K	5% 1/10W
R850	1-216-821-11	METAL CHIP 1K	5% 1/10W
R851	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R852	1-216-821-11	METAL CHIP 1K	5% 1/10W
R853	1-216-851-11	METAL CHIP 330K	5% 1/10W
R854	1-216-833-11	METAL CHIP 10K	5% 1/10W
R855	1-216-841-11	METAL CHIP 47K	5% 1/10W
R856	1-216-835-11	METAL CHIP 15K	5% 1/10W
R857	1-216-839-11	METAL CHIP 33K	5% 1/10W
R858	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R859	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R860	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R861	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R862	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R863	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R864	1-216-864-11	SHORT CHIP 0	
R865	1-216-864-11	SHORT CHIP 0	
R866	1-216-797-11	METAL CHIP 10	5% 1/10W
R867	1-216-864-11	SHORT CHIP 0	
R868	1-216-864-11	SHORT CHIP 0	
R869	1-216-817-11	METAL CHIP 470	5% 1/10W
R870	1-216-818-11	METAL CHIP 560	5% 1/10W
R872	1-216-823-11	METAL CHIP 1.5K	5% 1/10W
R873	1-216-813-11	METAL CHIP 220	5% 1/10W
R874	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R875	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R876	1-216-841-11	METAL CHIP 47K	5% 1/10W
R877	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R878	1-216-833-11	METAL CHIP 10K	5% 1/10W
R879	1-216-845-11	METAL CHIP 100K	5% 1/10W
R880	1-216-853-11	METAL CHIP 470K	5% 1/10W
R881	1-216-850-11	METAL CHIP 270K	5% 1/10W
R883	1-216-845-11	METAL CHIP 100K	5% 1/10W
R884	1-216-857-11	METAL CHIP 1M	5% 1/10W
R885	1-216-845-11	METAL CHIP 100K	5% 1/10W
R886	1-216-841-11	METAL CHIP 47K	5% 1/10W
R887	1-216-825-11	METAL CHIP 2.2K	5% 1/10W

Ref. No.	Part No.	Description	Remark
R888	1-216-833-11	METAL CHIP 10K	5% 1/10W
R889	1-216-841-11	METAL CHIP 47K	5% 1/10W
R890	1-216-839-11	METAL CHIP 33K	5% 1/10W (SP)
R890	1-216-864-11	SHORT CHIP 0	(EXCEPT SP)
R891	1-216-835-11	METAL CHIP 15K	5% 1/10W (SP)
R892	1-216-849-11	METAL CHIP 220K	5% 1/10W
R950	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R951	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R952	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R953	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R954	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R955	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R956	1-216-833-11	METAL CHIP 10K	5% 1/10W
R957	1-216-833-11	METAL CHIP 10K	5% 1/10W
R958	1-216-821-11	METAL CHIP 1K	5% 1/10W
R959	1-216-821-11	METAL CHIP 1K	5% 1/10W
R960	1-216-821-11	METAL CHIP 1K	5% 1/10W
R961	1-216-821-11	METAL CHIP 1K	5% 1/10W
R962	1-216-817-11	METAL CHIP 470	5% 1/10W
R963	1-216-833-11	METAL CHIP 10K	5% 1/10W
R964	1-216-841-11	METAL CHIP 47K	5% 1/10W
< TRANSFORMER >			
T301	1-416-041-41	TRANSFORMER, BIAS OSCILLATION	
< VIBRATOR >			
X1	1-814-371-11	QUARTZ CRYSTAL UNITS (32.768kHz)	
X801	1-795-563-21	VIBRATOR, CERAMIC (16.9MHz)	
X802	1-767-388-21	VIBRATOR, CRYSTAL (75kHz)	
*****			
MOTOR BOARD			
*****			
< SWITCH >			
S701	1-572-085-21	SWITCH, LEAF (LIMIT)	
*****			
A-1761-363-A	POWER BOARD, COMPLETE		
*****			
< CAPACITOR >			
C901	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C902	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C903	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C904	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C905	1-126-964-11	ELECT 10uF	20% 50V
C906	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
< CONNECTOR >			
CN903	1-822-674-11	HEADER ASSEMBLY	FOR PRINTED WIRING BOARD
< DIODE >			
D901	8-719-046-07	DIODE 2A02M	
D902	8-719-046-07	DIODE 2A02M	
D903	8-719-046-07	DIODE 2A02M	
D904	8-719-046-07	DIODE 2A02M	

# CFD-S05

## POWER SWITCH

Ref. No.	Part No.	Description	Remark
		< FUSE HOLDER >	
FH901	1-533-217-41	HOLDER, FUSE	
FH902	1-533-217-41	HOLDER, FUSE	
FH903	1-533-217-41	HOLDER, FUSE	
FH904	1-533-217-41	HOLDER, FUSE	
		< AC INLET >	
△ J901	1-526-838-13	INLET, AC 2P (～ AC IN)	
*****			
	A-1760-734-A	SWITCH BOARD, COMPLETE	
*****			
		< CONNECTOR >	
CN318	1-815-446-11	PIN, CONNECTOR (PWB) 5P	
		< SWITCH >	
S301	1-786-126-11	SWITCH, SLIDE (REC/PB)	
*****			
		MISCELLANEOUS	
*****			
52	1-831-985-32	CABLE, FLEXIBLE FLAT (5 CORE)	
154	1-838-039-31	CABLE, FLEXIBLE FLAT (16 CORE)	
156	1-831-758-32	CABLE, FLEXIBLE FLAT (6 CORE)	
△ 158	A-1780-028-A	OPTICAL PICK-UP (DA11MMVGP)	
164	1-452-899-11	MAGNET	
ANT1	1-754-691-11	ANTENNA, TELESCOPIC (FM)	
△ F901	1-533-468-12	FUSE, GLASS (DIA. 5) (T2AL/250V)	
△ F902	1-533-468-12	FUSE, GLASS (DIA. 5) (T2AL/250V)	
HE301	1-500-813-11	HEAD, ERASE (ERASE)	
HRP301	3-266-053-01	HEAD, RP (REC/PB)	
S801	1-692-960-11	SWITCH, PUSH (1 KEY) (PUSH OPEN/CLOSE ▲)	
SP101	1-826-280-61	SPEAKER (7.7cm) (L-CH)	
SP201	1-826-280-61	SPEAKER (7.7cm) (R-CH)	
△ T901	1-445-818-11	TRANSFORMER, POWER (TW)	
△ T901	1-445-820-11	TRANSFORMER, POWER (EXCEPT TW)	
*****			
		ACCESSORIES	
*****			
△	1-776-985-15	CORD, POWER (KR)	
△	1-829-433-13	CORD, POWER (TW)	
△	1-834-539-14	CORD, POWER (TH)	
△	1-835-164-12	CORD SET, POWER (AUS)	
△	1-836-379-12	CORD, POWER (SP)	
	4-174-567-31	MANUAL, INSTRUCTION (ENGLISH) (AUS,TH)	
	4-174-567-71	MANUAL, INSTRUCTION (ENGLISH, SIMPLIFIED CHINESE) (SP)	
	4-174-567-81	MANUAL, INSTRUCTION (ENGLISH,KOREAN) (KR)	
	4-174-567-91	MANUAL, INSTRUCTION (ENGLISH, TRADITIONAL CHINESE) (TW)	



MEMO

