

CFD-S07CP

SERVICE MANUAL

Ver. 1.0 2010.04

Canadian Model
AEP Model
E Model
Australian Model



CD Section	Model Name Using Similar Mechanism	CFD-S05
	Optical Pick-up Name	DA11MMVGP
TC Section	Model Name Using Similar Mechanism	CFD-S05
	Tape Transport Mechanism Type	MF-S05V/S05VE

SPECIFICATIONS

CD player section

System

Compact disc digital audio system

Laser diode properties

Emission duration: Continuous

Laser output: Less than 44.6 μ 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

CND, E92, MX model:

AM: 530 - 1,710 kHz

AEP, AUS, CET, IT, TH, TW model:

AM: 531 - 1,602 kHz

E41, AR, SP model:

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

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

IF (AEP, AUS, CET, IT, 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 (3 1/4 inches) dia., 4 Ω , cone type (2)

Outputs

Headphones jack (stereo minijack):

For 16 Ω - 32 Ω impedance headphones

Input

AUDIO IN jack (stereo minijack)

– Continued on next page –

CD RADIO CASSETTE-CORDER

9-889-823-01

2010D04-1

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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 (CND, E92, MX, TW model)

230 V AC, 50 Hz (AEP, E41, AUS, CET, IT model)

220 V AC, 50 Hz (TH model)

220 V AC, 50 Hz (AR model)

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

9 V DC, 6 R14 (size C) batteries

For remote control:

3 V DC, 2 R03 (size AAA) 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 $\times$ 134 mm $\times$ 230 mm (w/h/d)

(14 3/8 inches $\times$ 5 3/8 inches $\times$ 9 1/8 inches)

(incl. projecting parts)

Mass

Approx. 2.7 kg (5 lb. 15 oz) (incl. batteries)

Supplied accessories

AC power cord (1)

Remote control (1)

Design and specifications are subject to change without notice.

• Abbreviation

AR : Argentina model

AUS : Australian model

CET : East European & Russian model

CND : Canadian model

E41 : 230V AC area in E model

E92 : 120V AC area in E model

EA : Saudi Arabia model

IT : Italian model

MX : Mexican 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.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

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.

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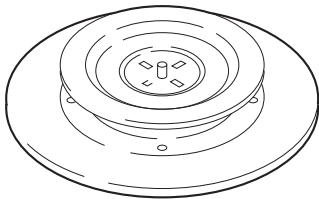
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SECTION 1 SERVICING NOTES

CHUCK PLATE JIG ON REPAIRING

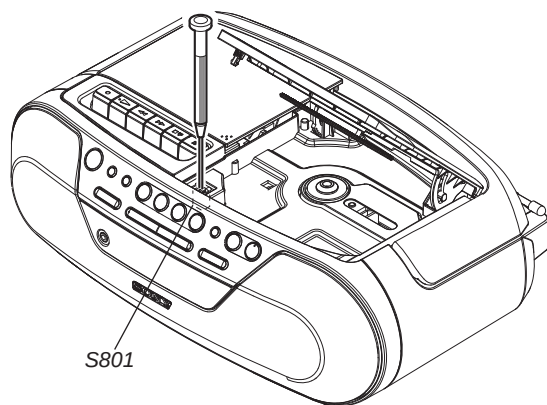
On repairing CD section, playing a disc without the lid (CD), use Chuck Plate Jig.

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

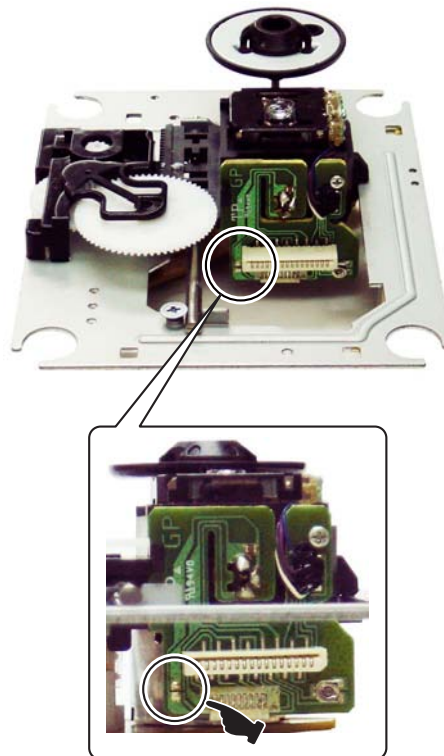


LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Turn ON the [OPERATE] or [POWER] 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 [▶ II] (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



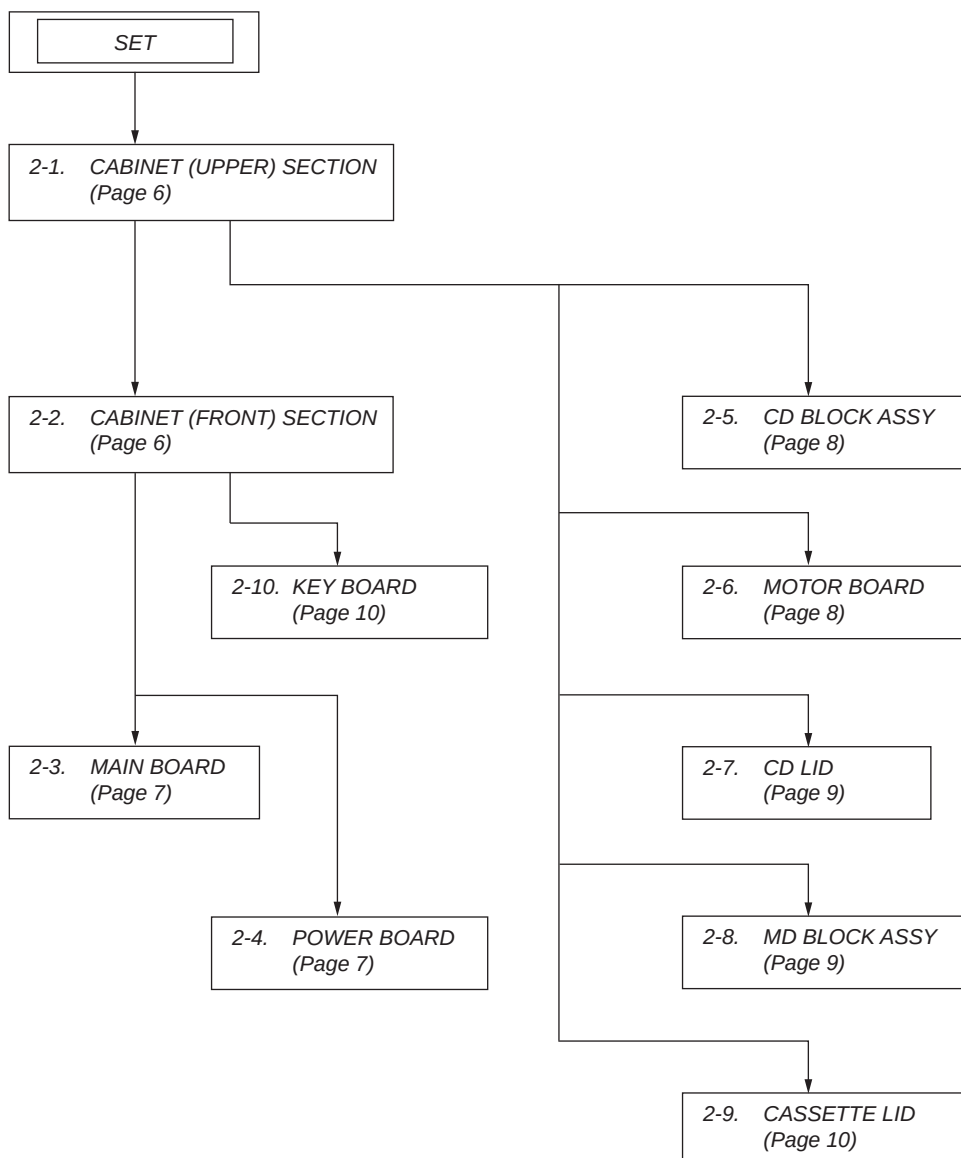
When installing a new OP unit, be sure to connect the flexible printed circuit board first of all before removing the static electricity prevention solder bridge by unsoldering.

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.)

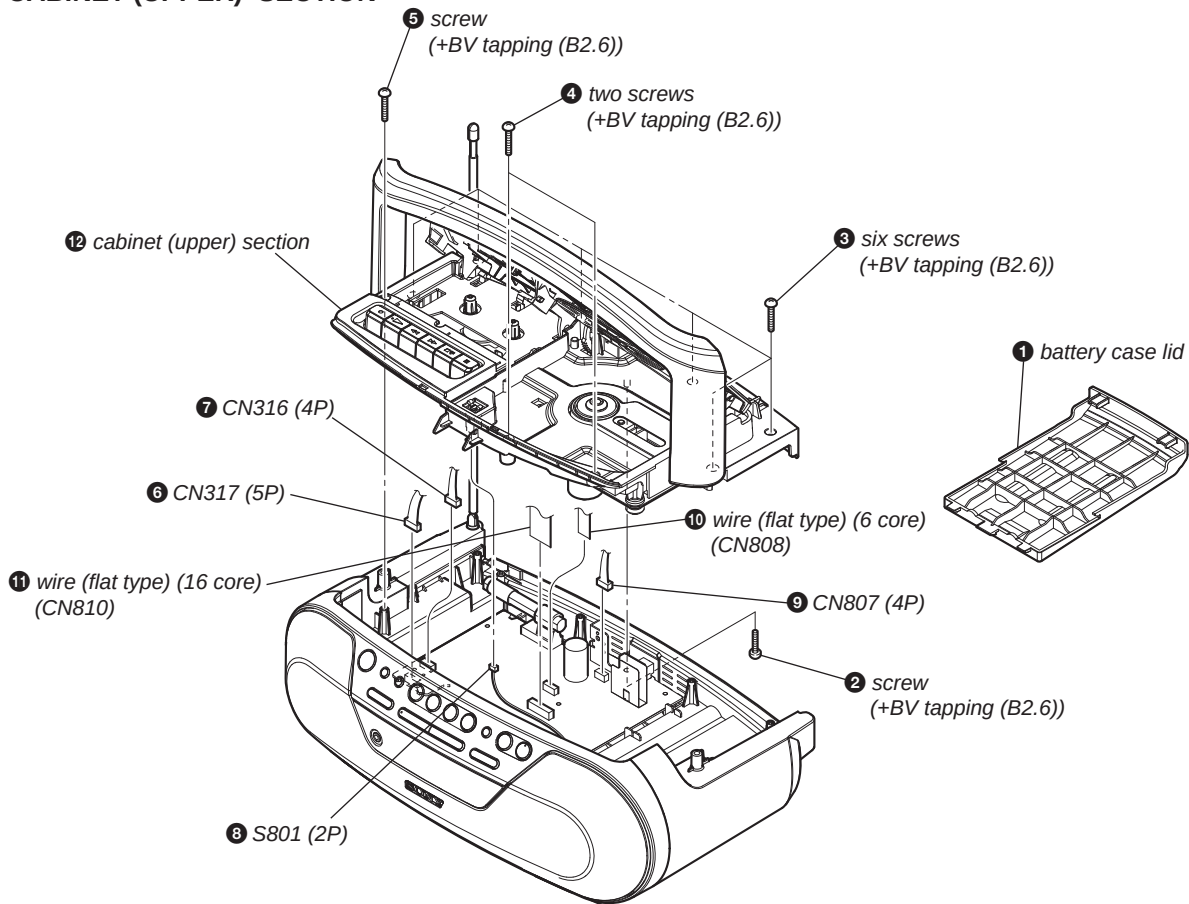
SECTION 2 DISASSEMBLY

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

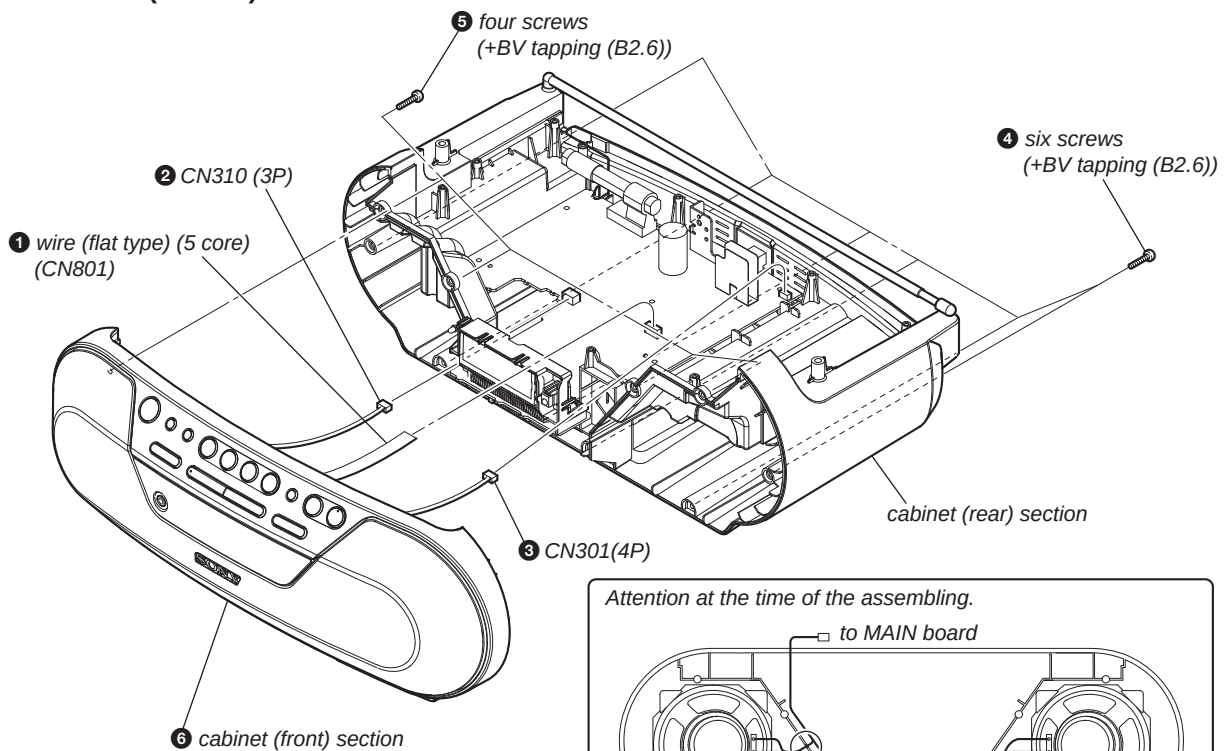


Note: Follow the disassembly procedure in the numerical order given.

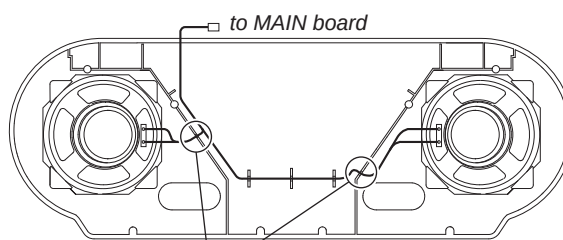
2-1. CABINET (UPPER) SECTION



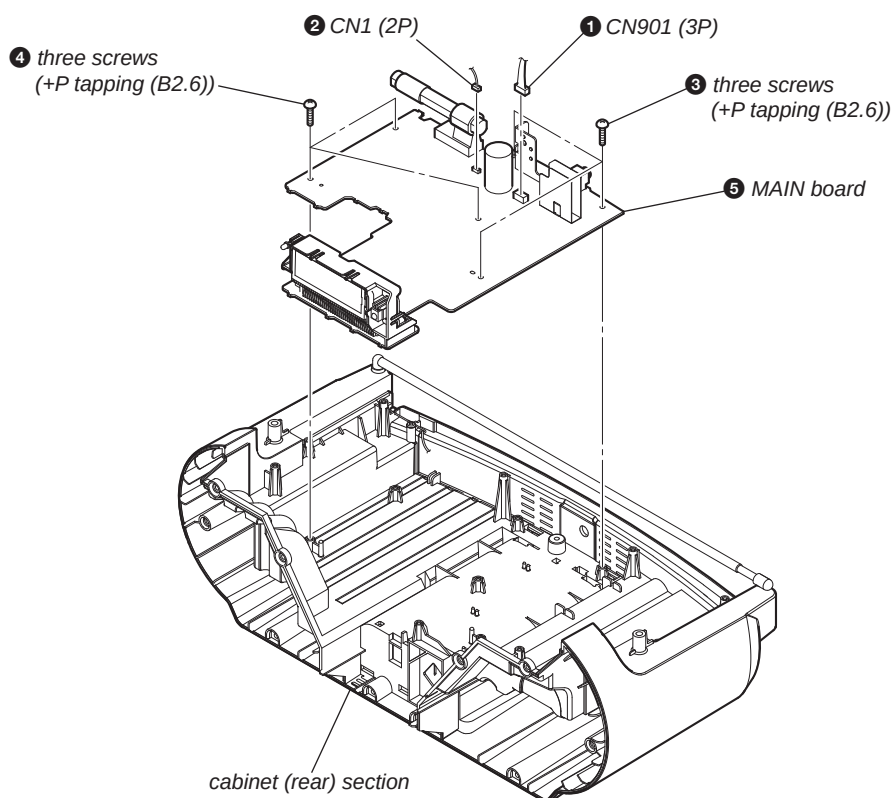
2-2. CABINET (FRONT) SECTION



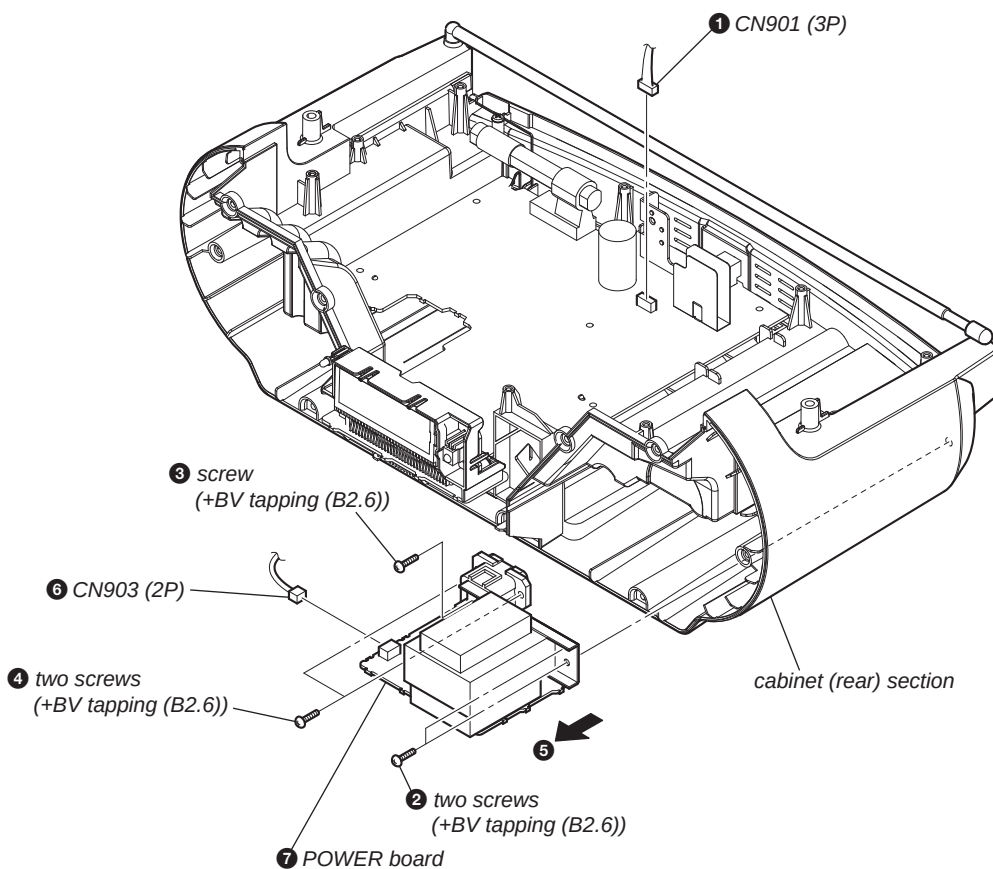
Attention at the time of the assembling.



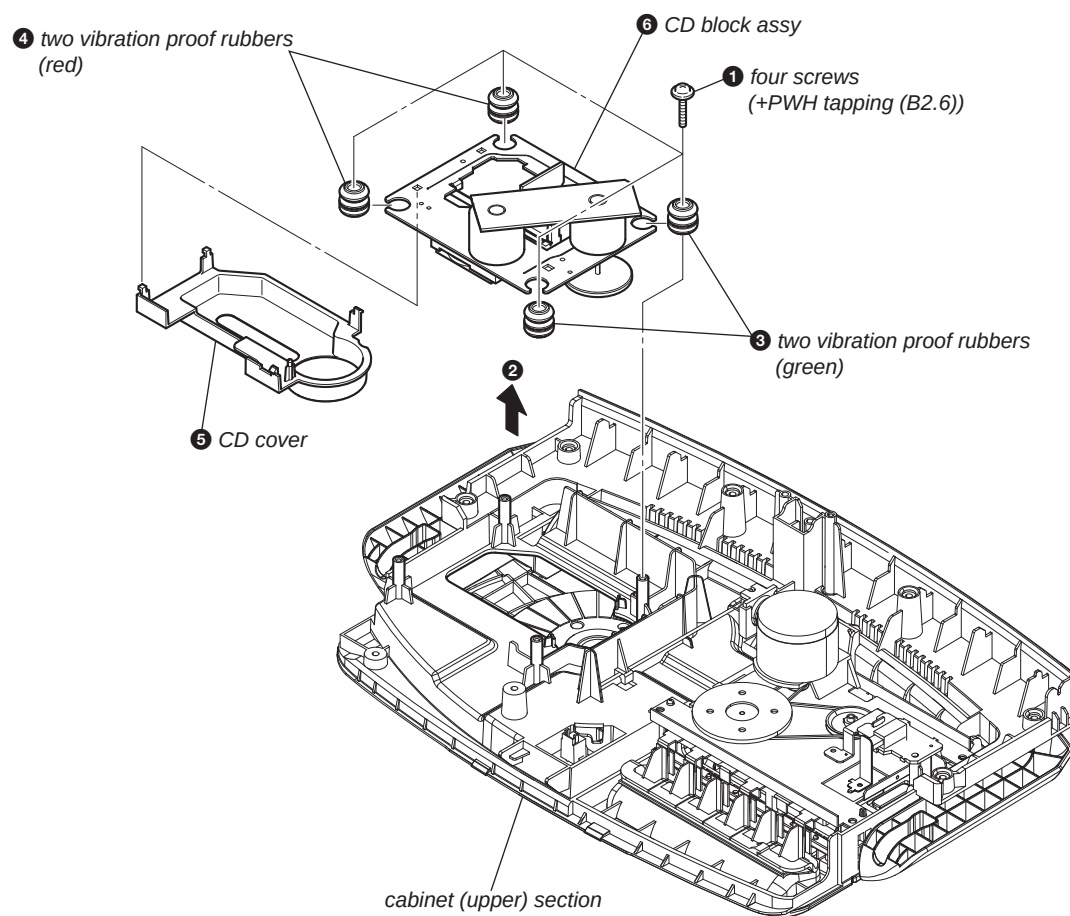
2-3. MAIN BOARD



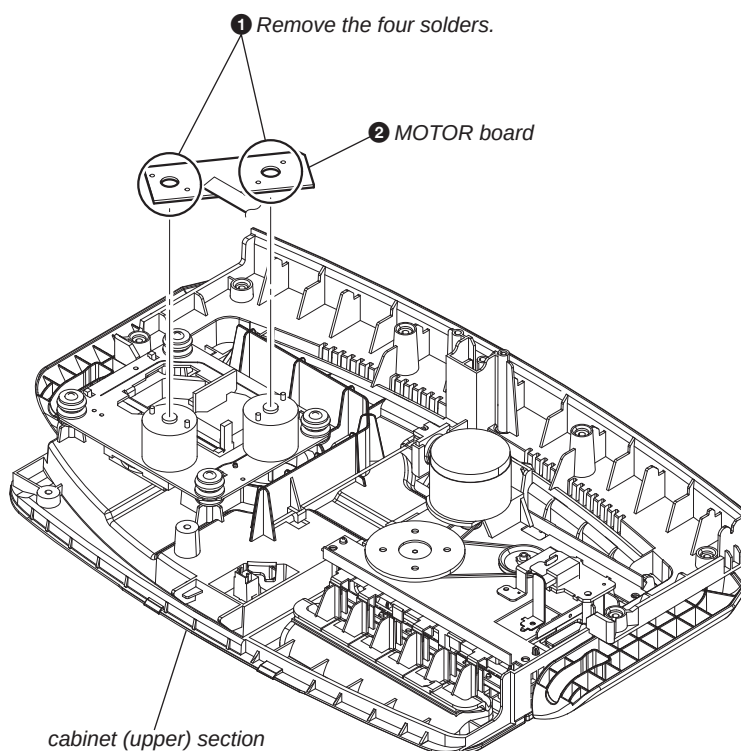
2-4. POWER BOARD



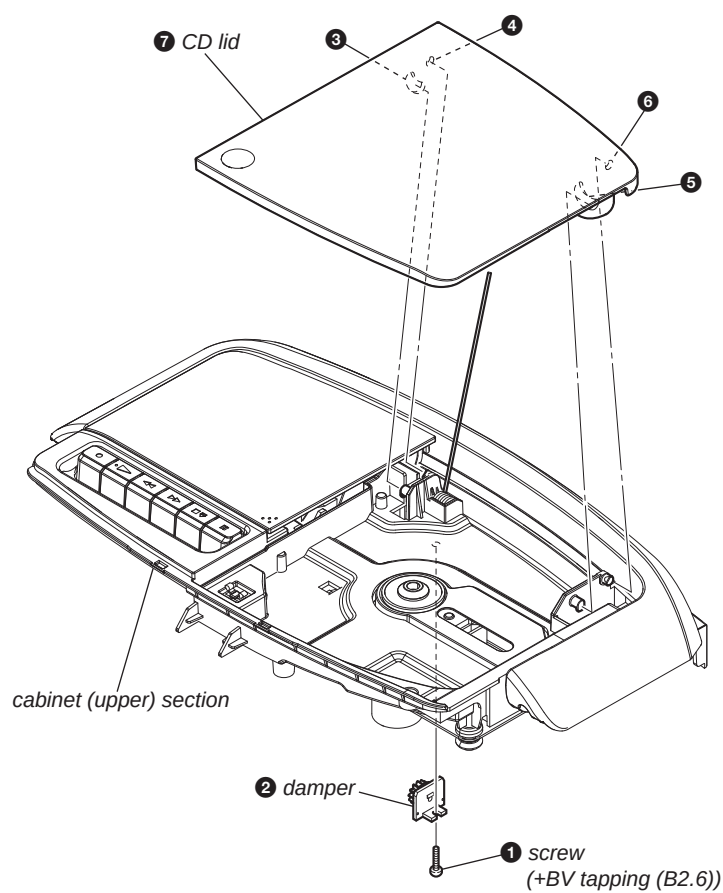
2-5. CD BLOCK ASSY



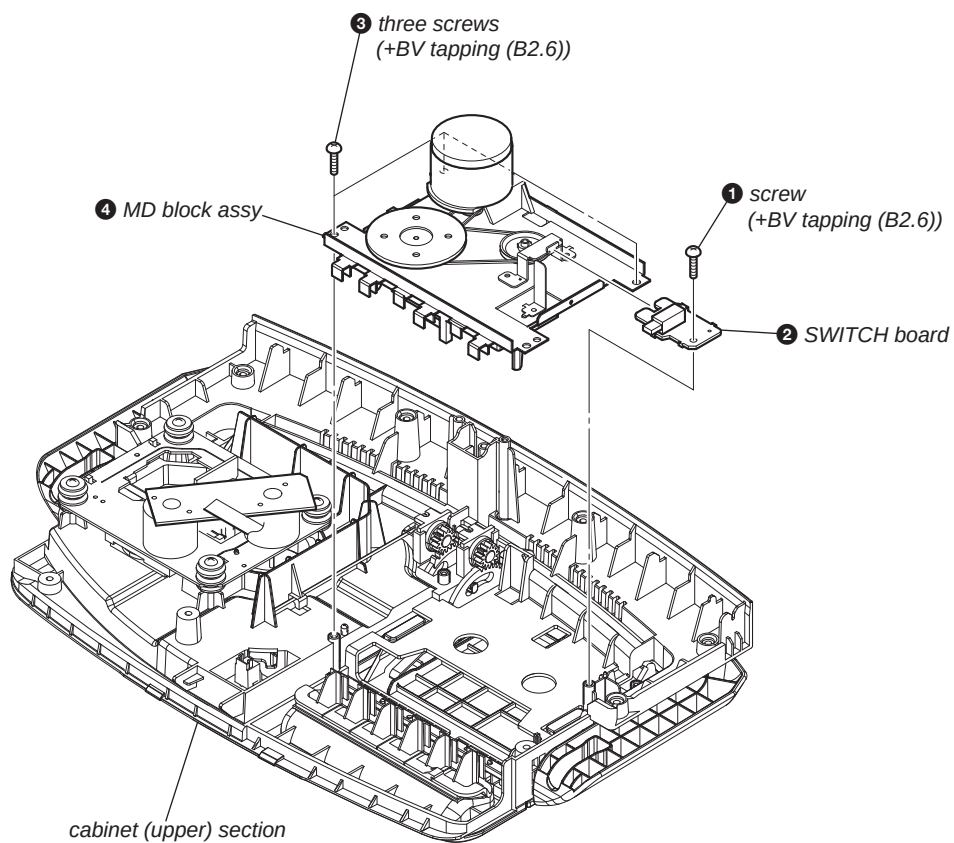
2-6. MOTOR BOARD



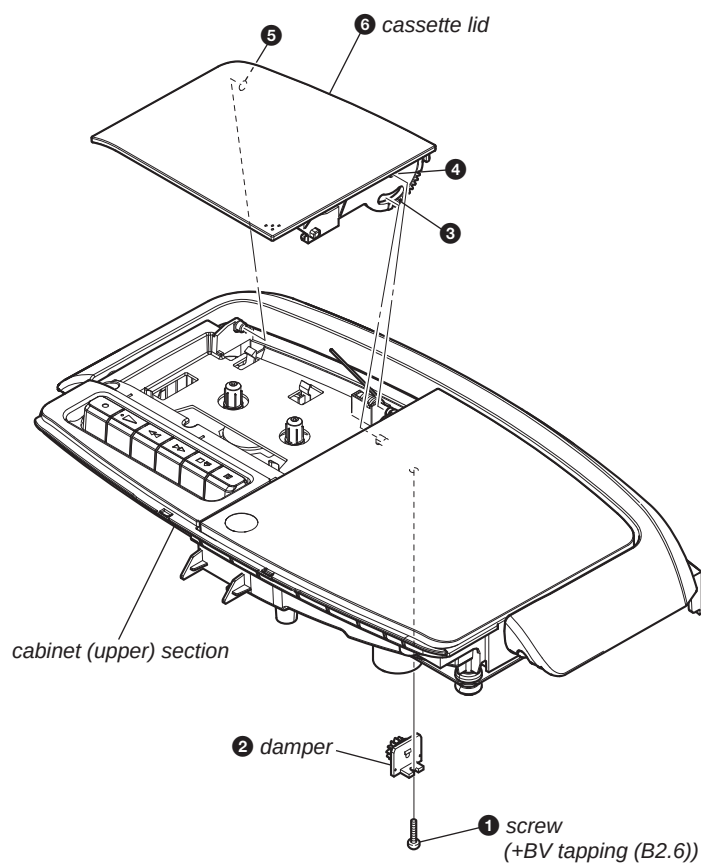
2-7. CD LID



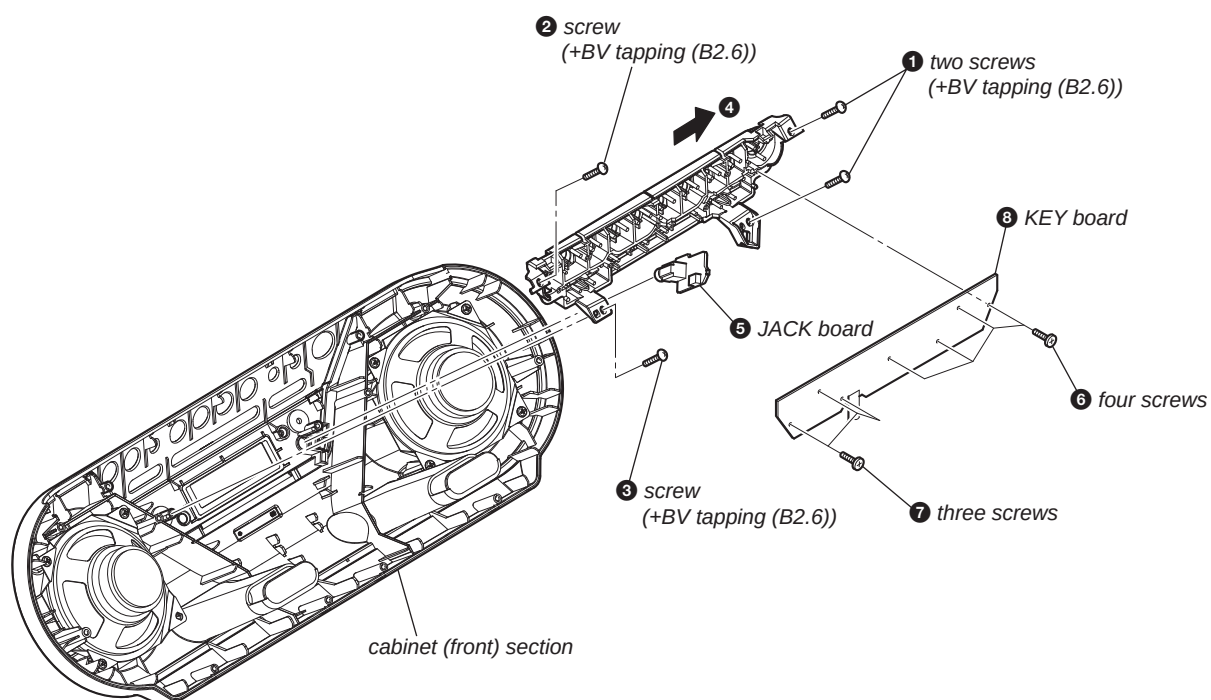
2-8. MD BLOCK ASSY



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)

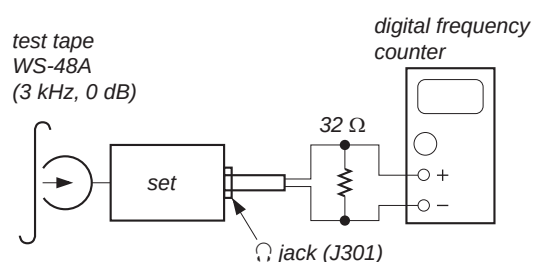
• Test Tape

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



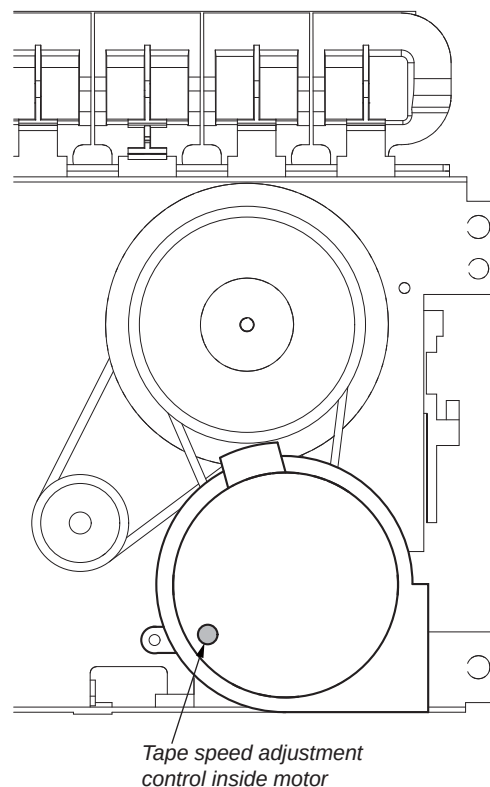
Adjust so that the value on the digital frequency counter is 3,000 Hz.

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.

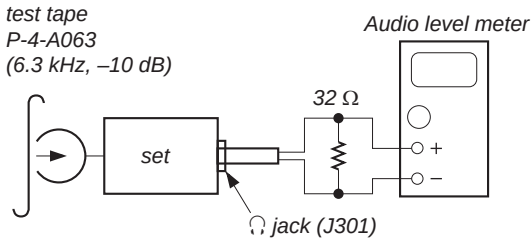
Adjustment Location:



Record/Playback Head Azimuth Adjustment

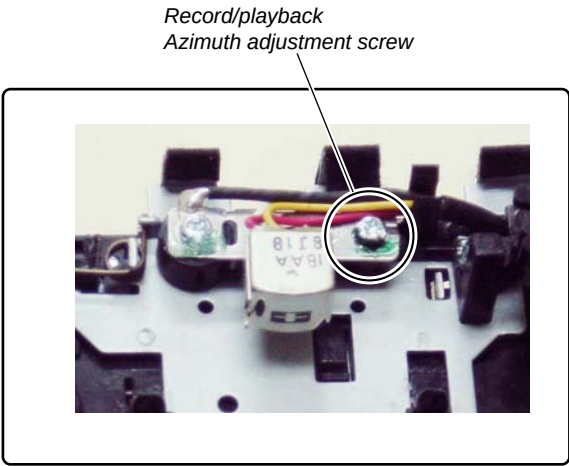
Procedure:

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:

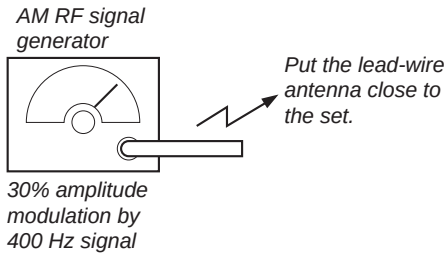


TUNER SECTION 0 dB = 1 μV

• AM Section

Setting:

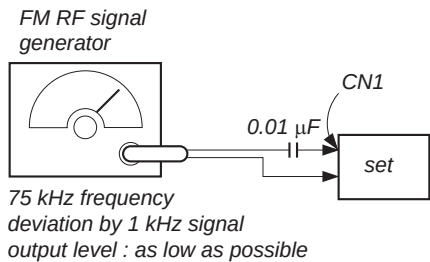
RADIO BAND•AUTO PRESET button: AM



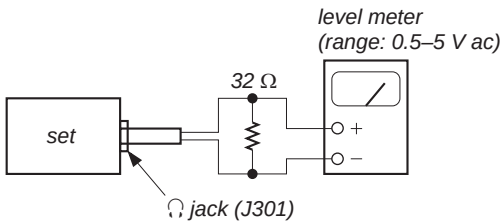
• FM Section

Setting:

RADIO BAND•AUTO PRESET button: FM



• Connecting Level Meter (FM, AM)



AM FREQUENCY COVERAGE CHECK (CND, E92, MX)		
Frequency Display	530 kHz	1,710 kHz
Adjustment Part	<confirmation>	

AM FREQUENCY COVERAGE CHECK (EXCEPT CND, E92, MX)		
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
 - CND : Canadian model
 - E92 : 120V AC area in E model
 - MX : Mexican model

CD SECTION

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

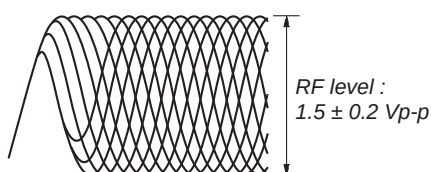
FOCUS BIAS CHECK

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)

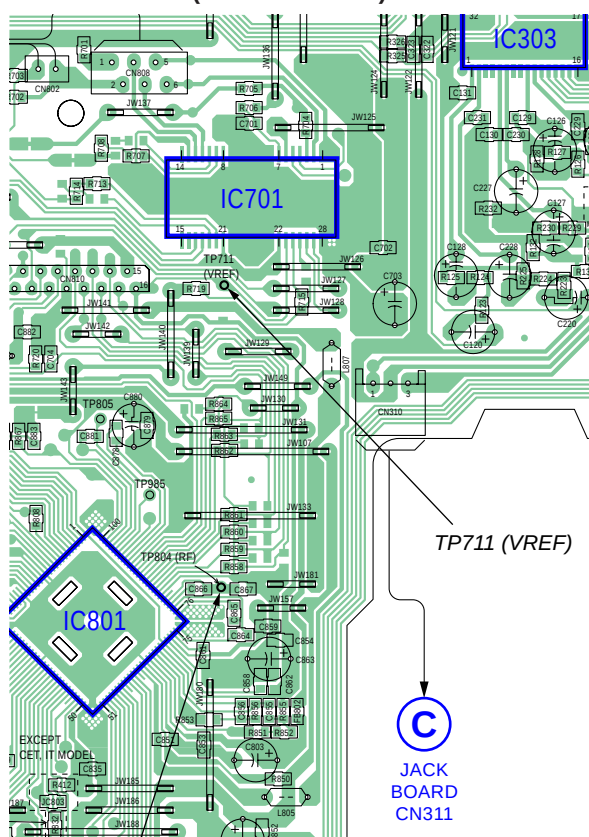
VOLT/DIV : 50 mV (10 : 1 probe in use)
TIME/DIV : 500 nS



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

Test Point:

– MAIN BOARD (Conductor Side) –

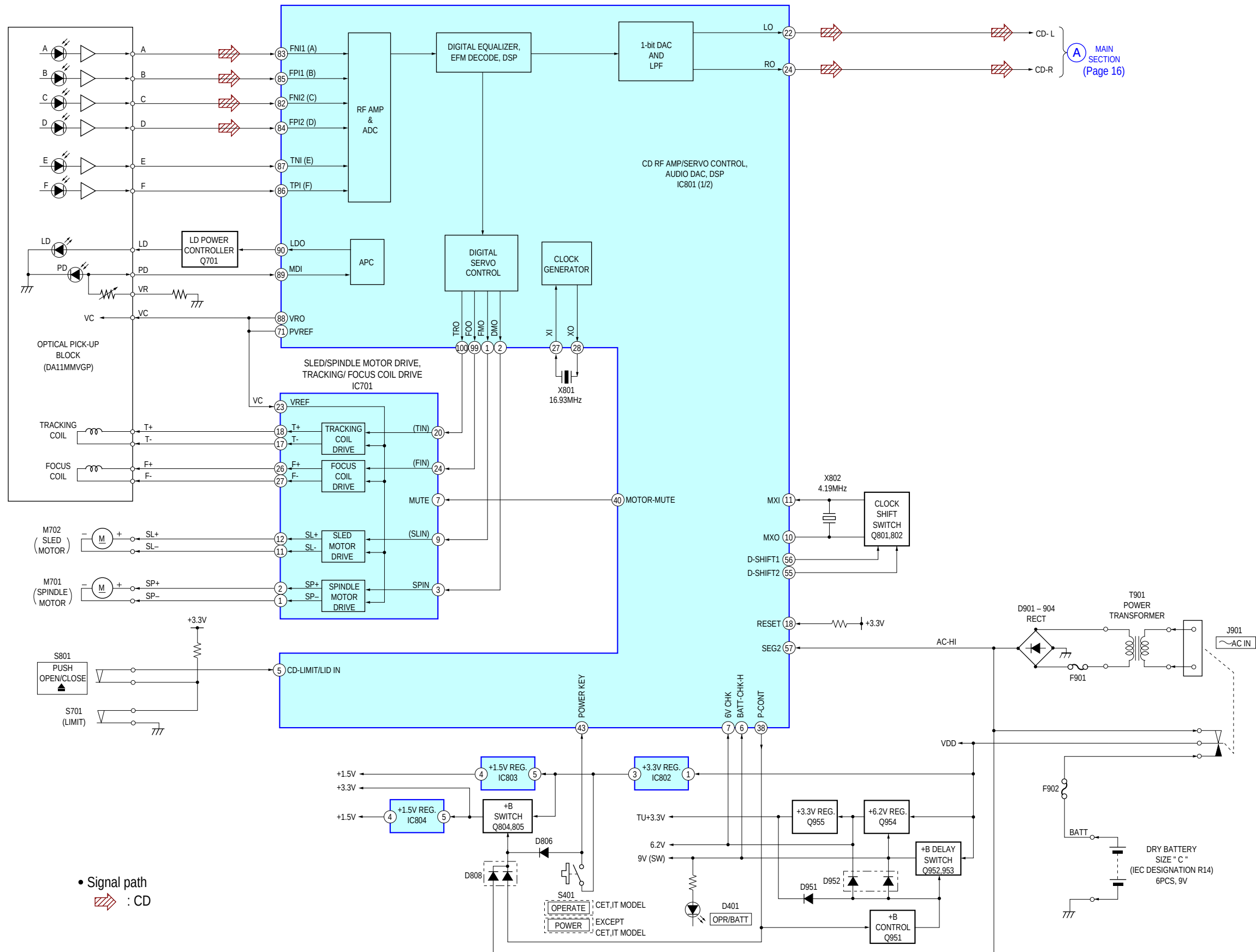


TP804 (RF)

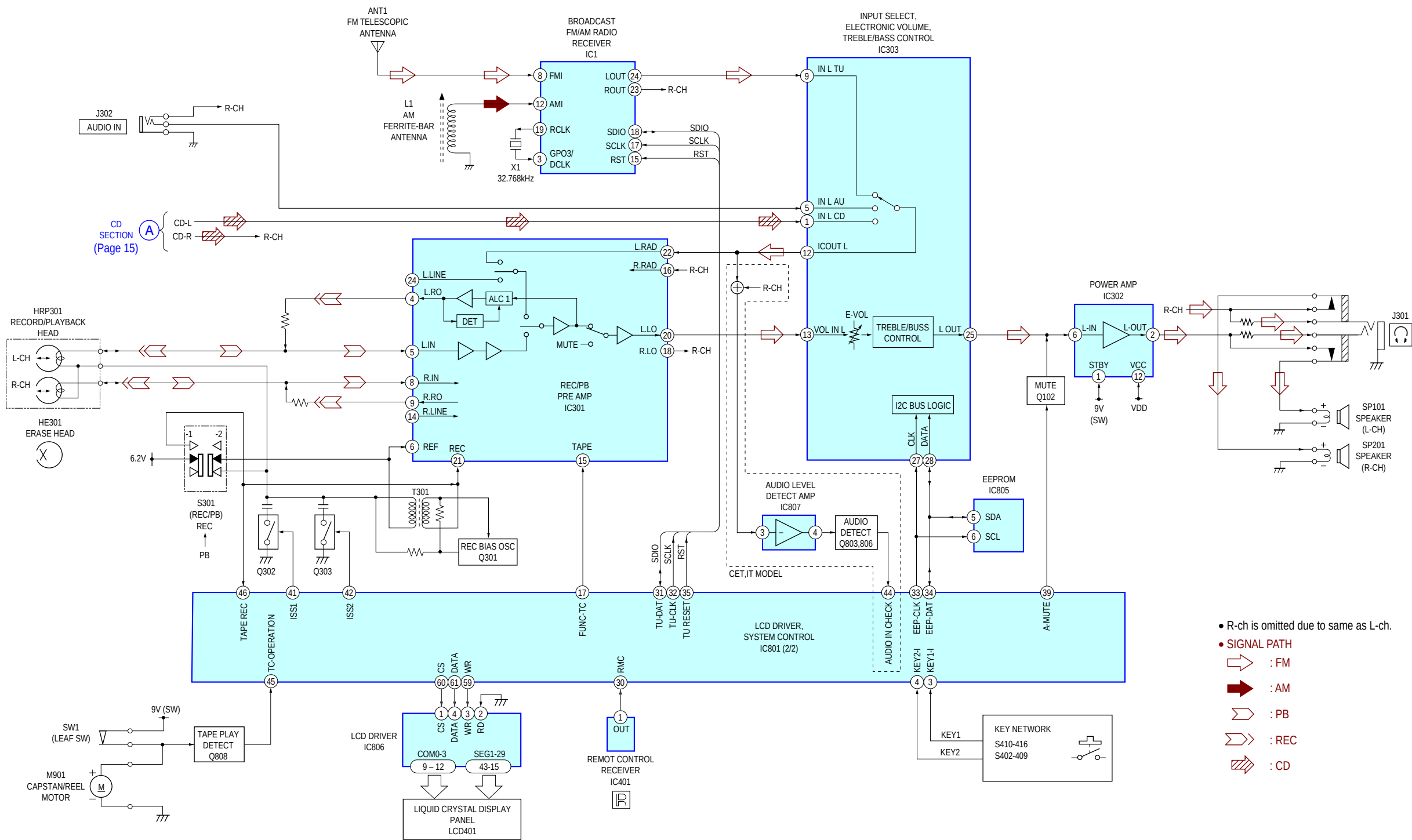
MEMO

SECTION 5 DIAGRAMS

5-1. BLOCK DIAGRAM – CD Section –



5-2. BLOCK DIAGRAM – MAIN Section –



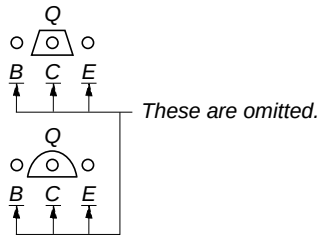
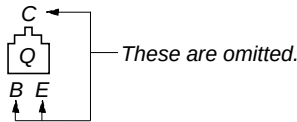
THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

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
(Conductor Side) from the pattern face are indicated.
Parts face side: Parts on the parts face side seen from
(Component Side) the parts face are indicated.

- Indication of transistor.



- Abbreviation
- AR : Argentina model
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- CND : Canadian model
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- E92 : 120V AC area in E model
- EA : Saudi Arabia model
- IT : Italian model
- MX : Mexican model
- SP : Singapore model
- TH : Thai model
- TW : Taiwan model

For Schematic Diagrams.

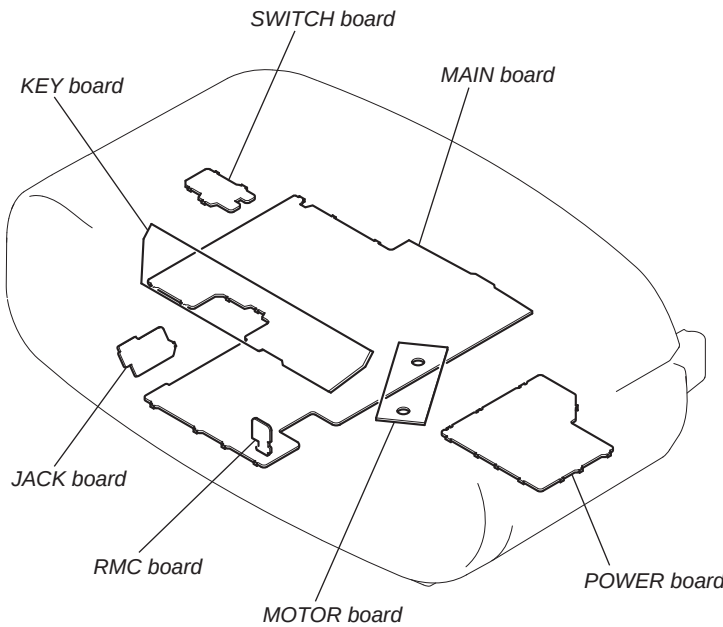
- Note:
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and 1/4 W or less unless otherwise specified.
 - △ : Internal component.
 - : Panel designation.

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

Note:
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

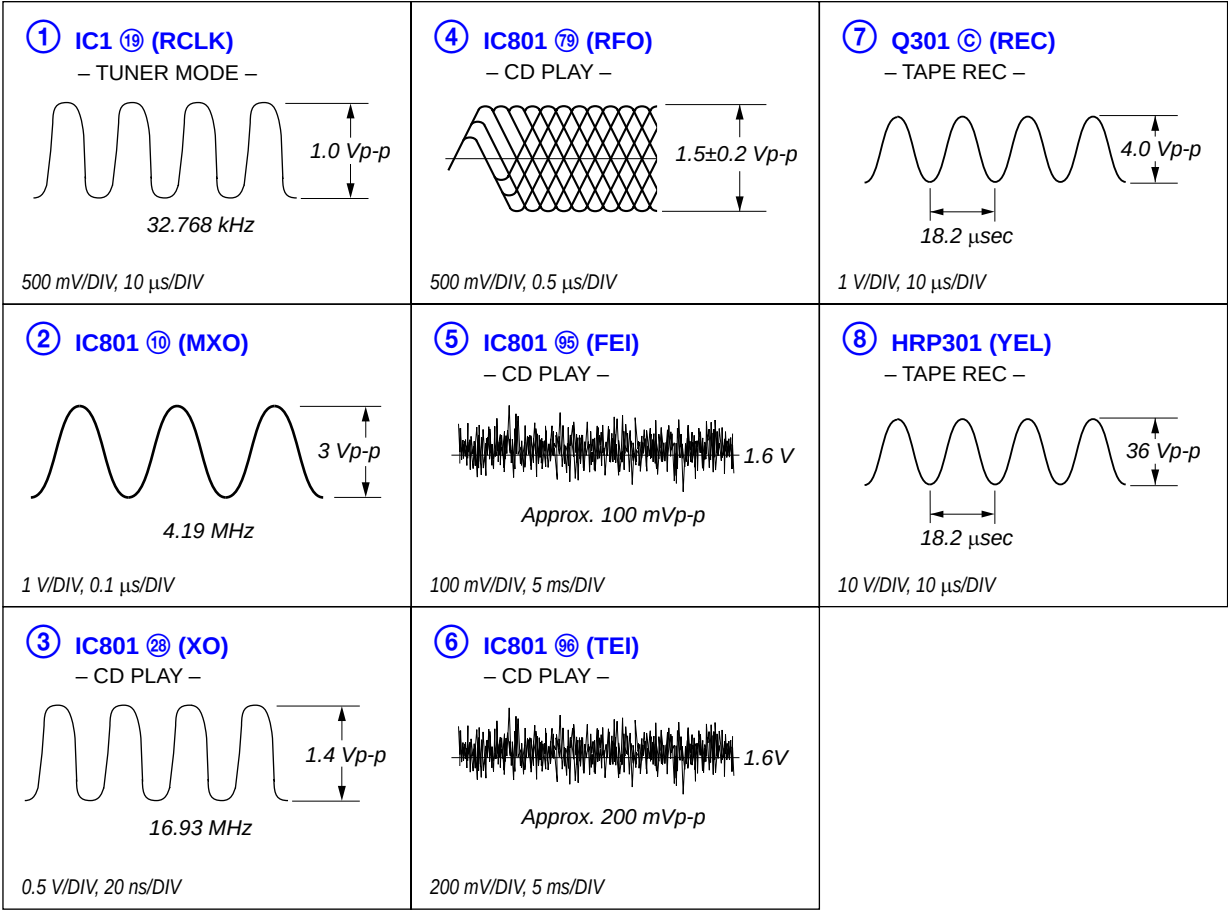
- : B+ Line.
- : Adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- (): AM
- < >: PB
- << >>: REC
- []: CD PLAY
- Voltages are taken with VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production 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
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- EA : Saudi Arabia model
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- MX : Mexican model
- SP : Singapore model
- TH : Thai model
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Circuit Boards Location

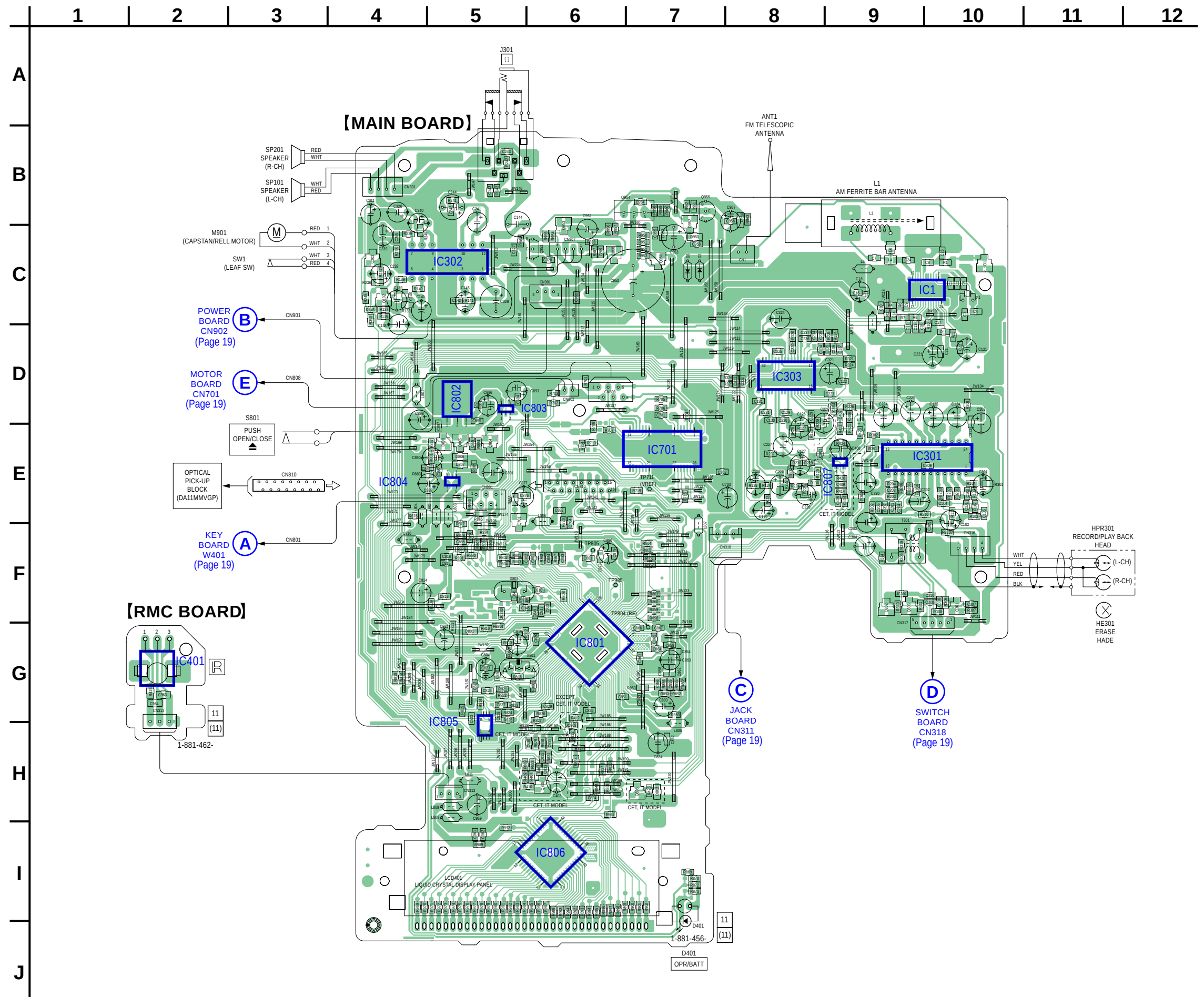


Waveforms

– MAIN Board –



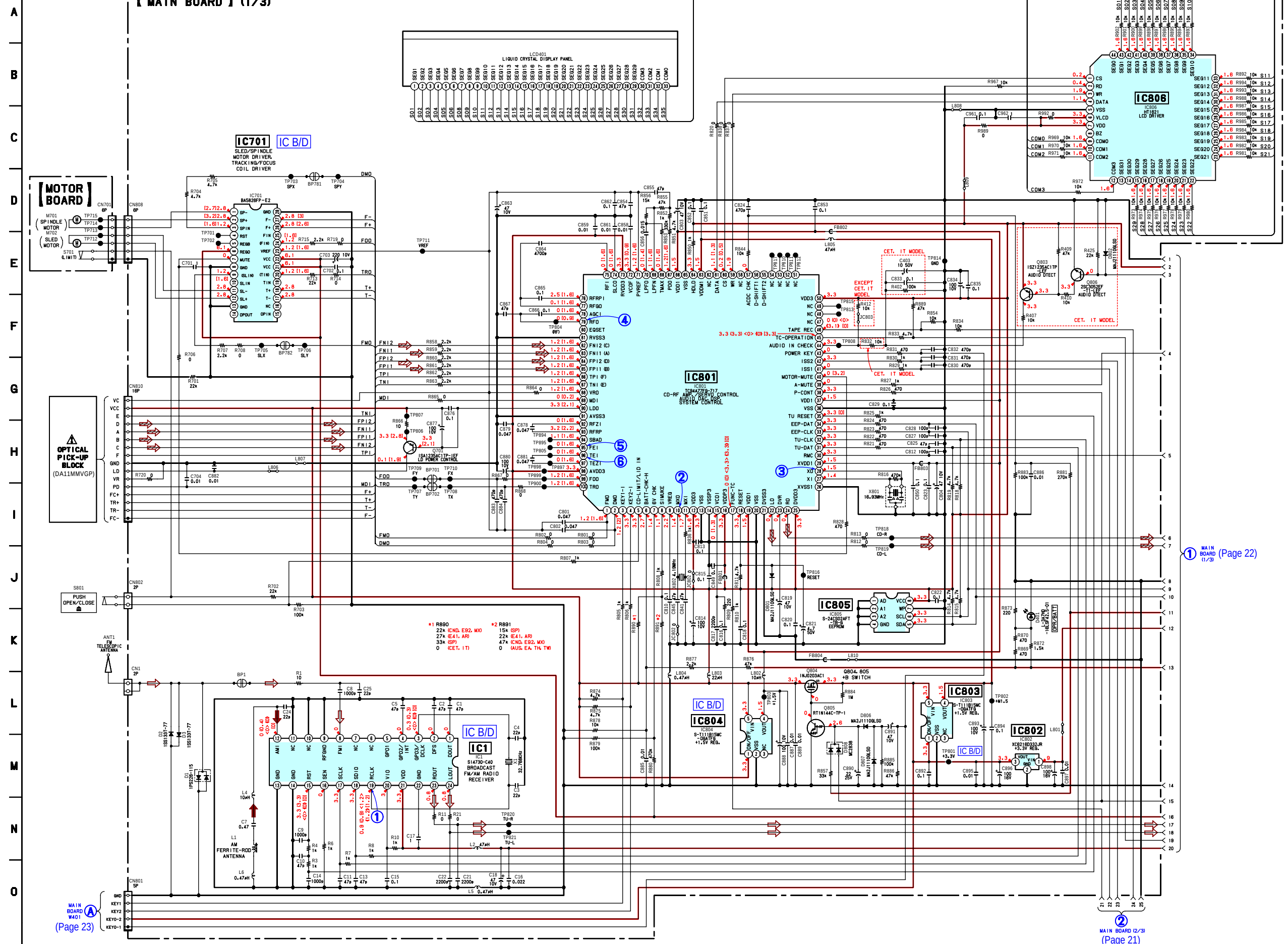
5-3. PRINTED WIRING BOARD – MAIN Section – • See page 17 for Circuit Boards Location. • : Uses unleaded solder.



•



【 MAIN BOARD 】 (1/3)



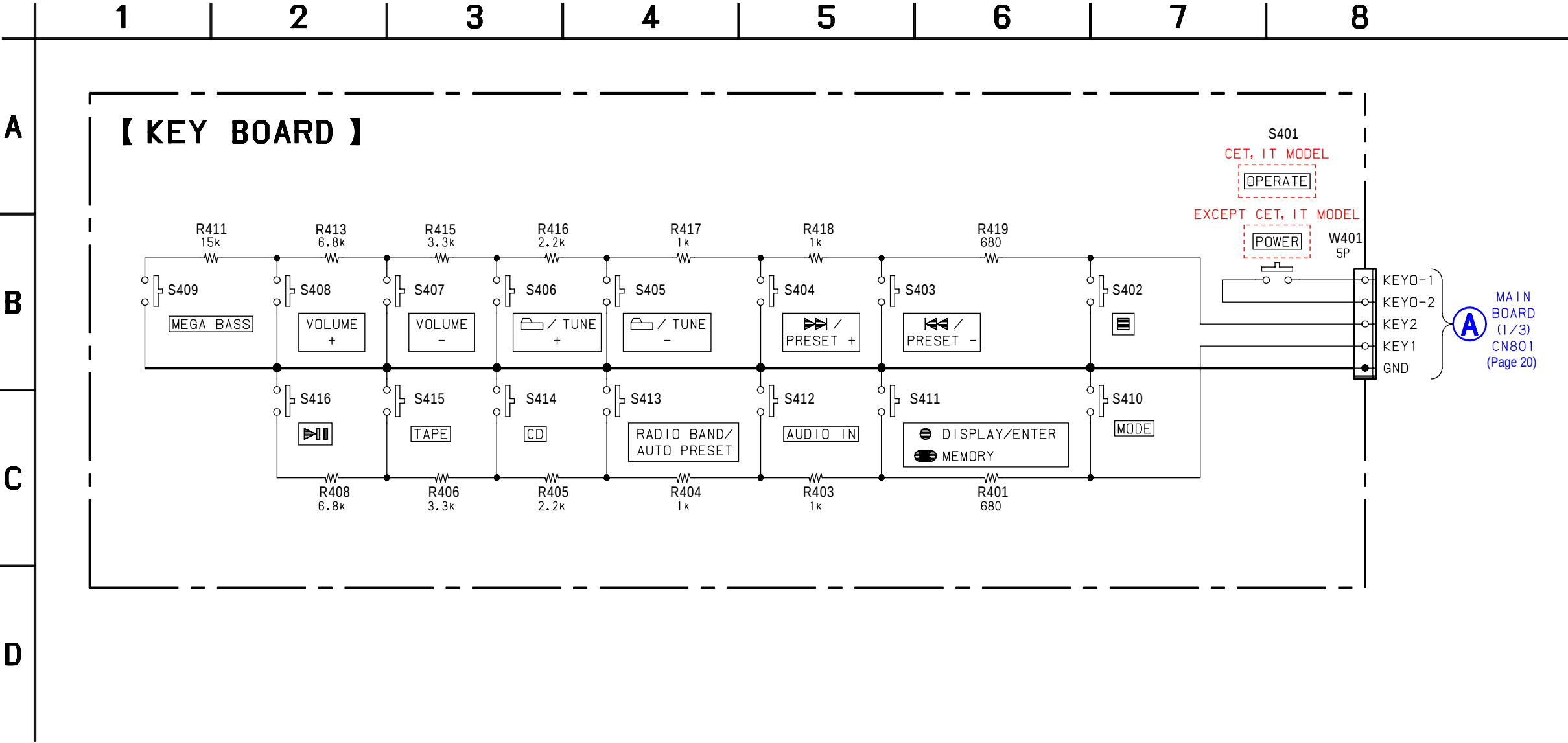
21 21



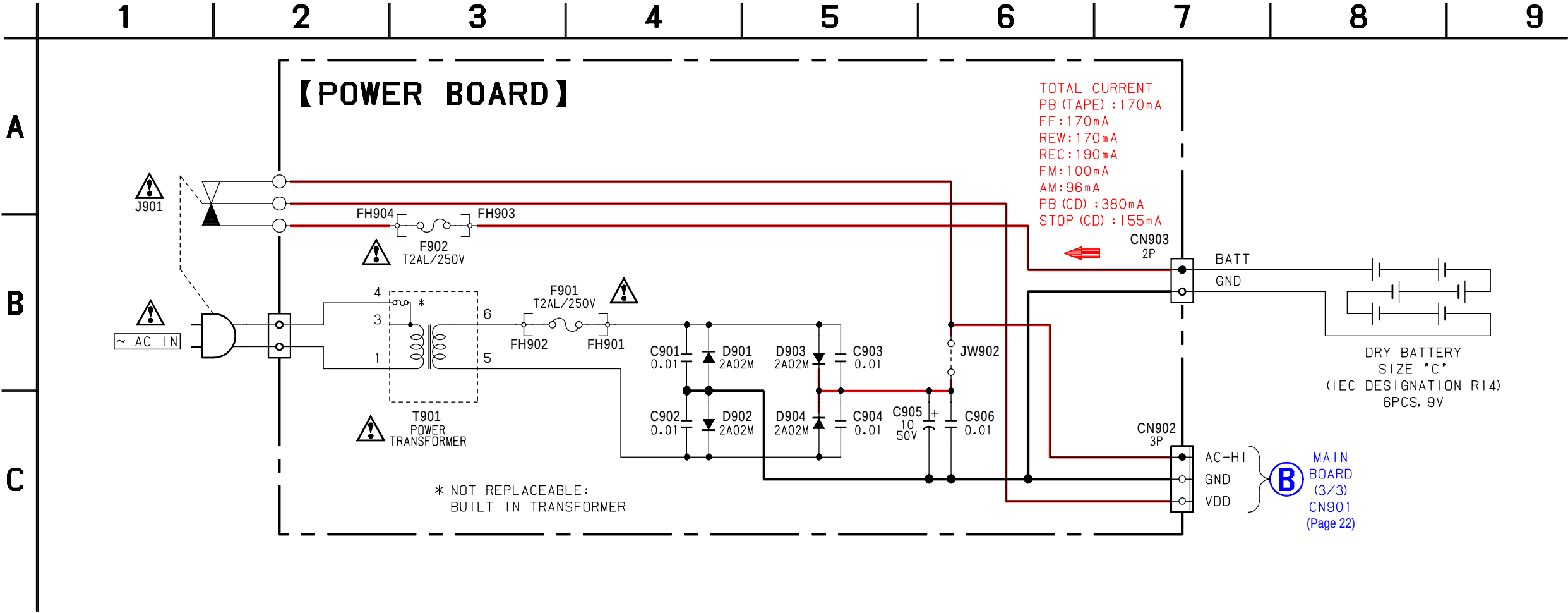
MAIN BOARD (2/3)
(Page 21)



5-8. SCHEMATIC DIAGRAM – KEY Section –

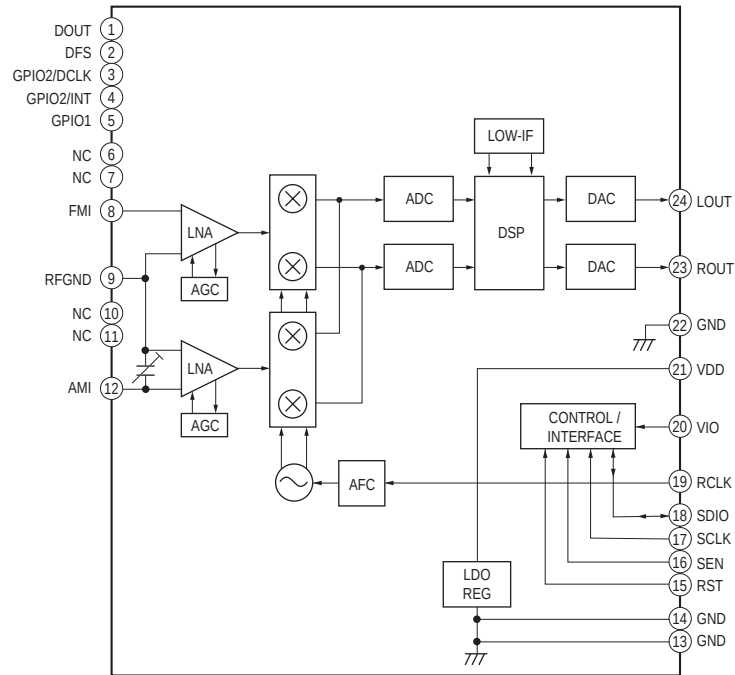


5-9. SCHEMATIC DIAGRAM – POWER Section –

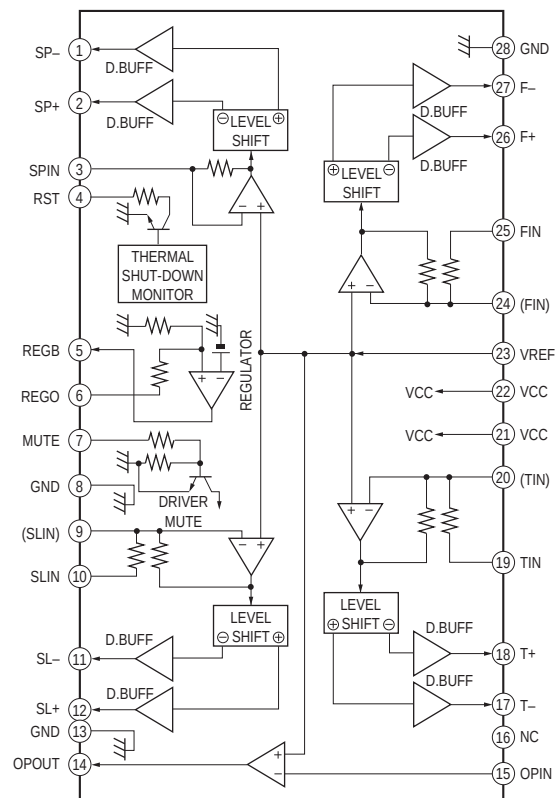


- IC Block Diagrams

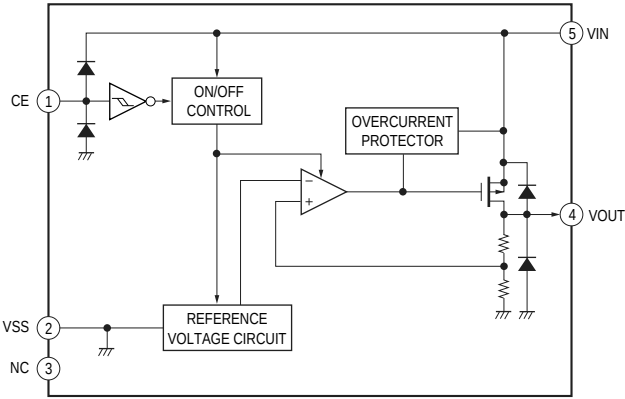
IC1 SI4730-C40 (MAIN Board (1/3))



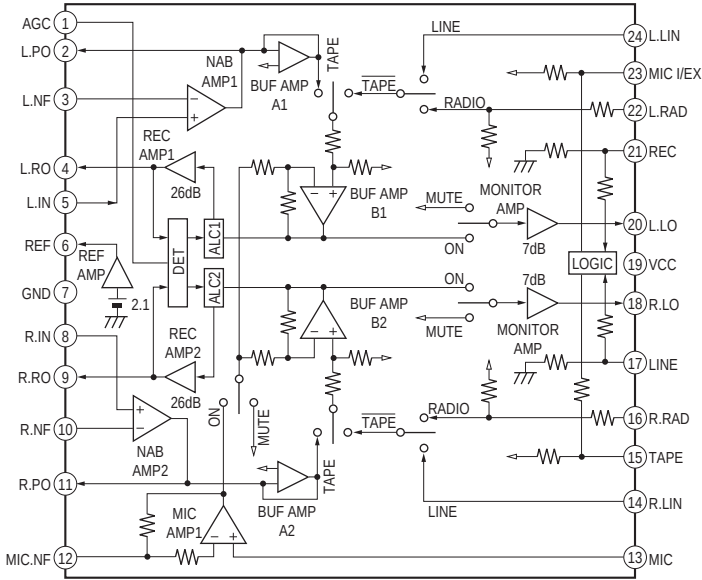
IC701 BA5826HFP-E2 (MAIN Board (1/3))



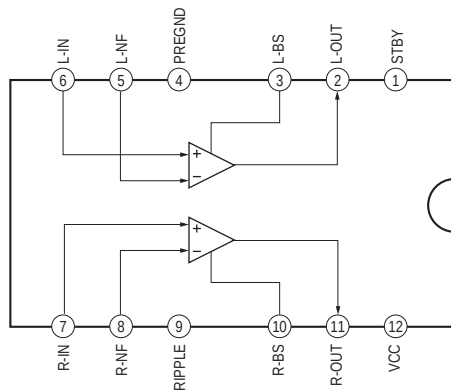
IC803 S-T111B15MC-OGATFG (MAIN Board (1/3))
IC804 S-T111B15MC-OGATFG (MAIN Board (1/3))



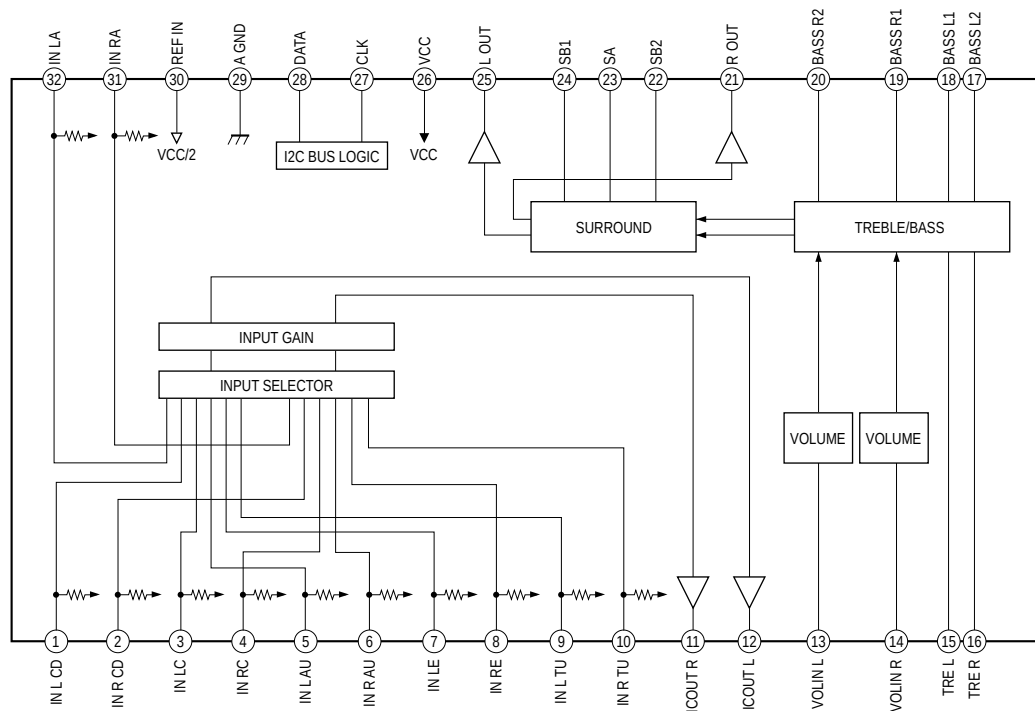
IC301 TA2068NG (MAIN Board (2/3))



IC302 UTC8227S (MAIN Board (3/3))



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



• IC Pin Function Description

MAIN BOARD (1/3) IC801 TC94A77FG-717

(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 (4.19MHz)
11	MXI	I	Sub system oscillation input (4.19MHz)
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 (16.93MHz)
29	XVDD1	—	Power supply (VDD+1.5V (OSC))
30	RMC	I	Sircs signal input
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	I	Audio signal in check signal input
45	TC-OPERATION	I	Tape play detect signal input (L: Play)
46	TAPE REC	I	Tape REC signal input (H: REC)
47 to 49	NC	—	Not used (Open)
50	VDD3	—	Power supply (+3.3V)
51 to 54	NC	—	Not used (Open)
55	D-SHIFT2	O	Clock shift signal output
56	D-SHIFT1	O	Clock shift signal output
57	ACDC CHK	I	AC power check signal input
58	NC	—	Not used (Open)
59	WR	O	LCD driver data write signal output
60	CS	O	LCD driver chip select signal output
61	DATA	O	LCD driver data output

Pin No.	Pin Name	I/O	Description
62	NC	—	Not used (Open)
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
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	FPI2 (D)	I	CD pick-up main beam D signal input
85	FPI1 (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:

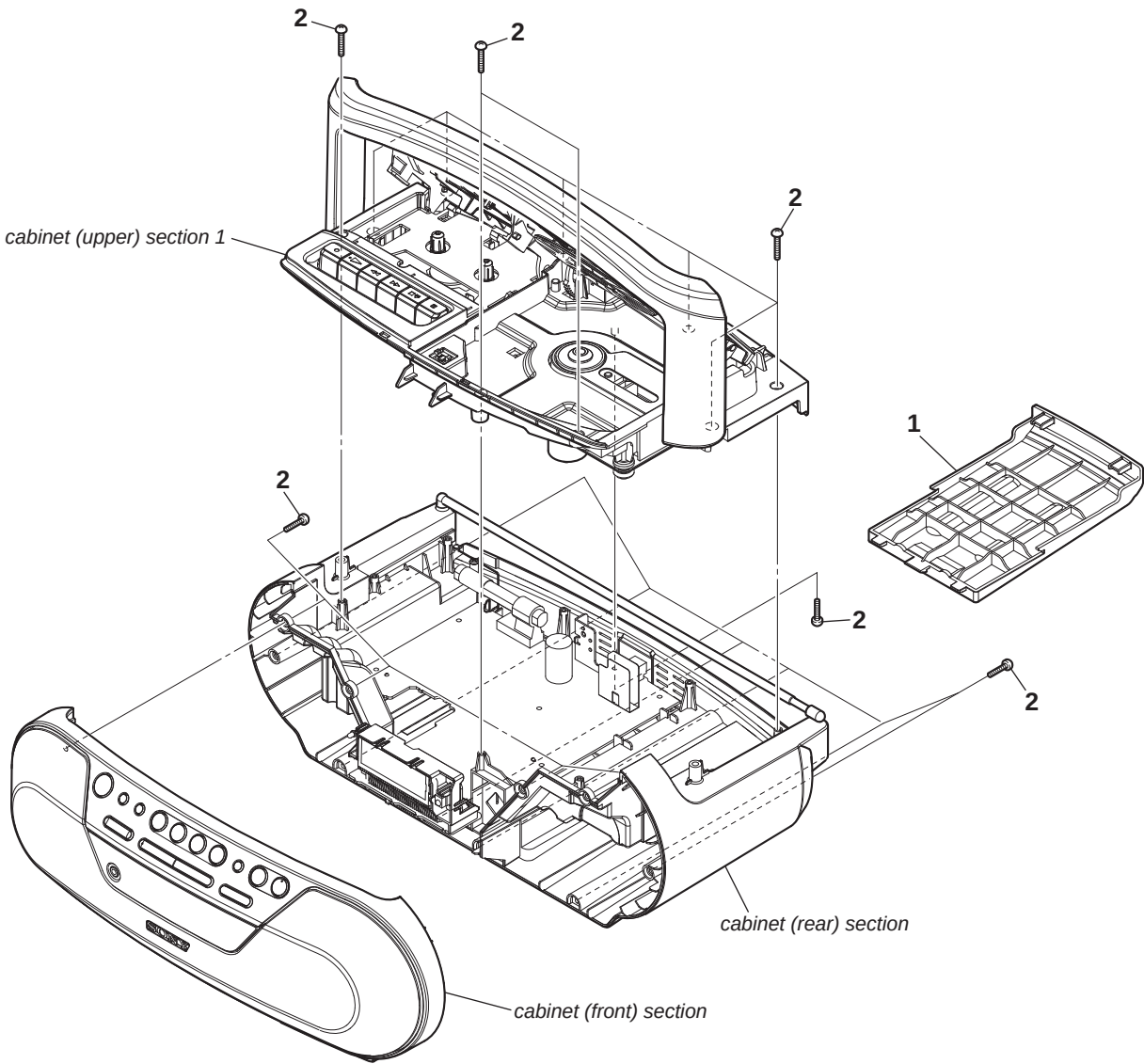
- XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
 ↑ ↑
 Parts Color Cabinet's Color

- Accessories are given in the last of the electrical parts list.
- Abbreviation
AR : Argentina model
AUS : Australian model
CET : East European & Russian model
CND : Canadian model
E41 : 230V AC area in E model
E92 : 120V AC area in E model
EA : Saudi Arabia model
IT : Italian model
MX : Mexican 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.

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

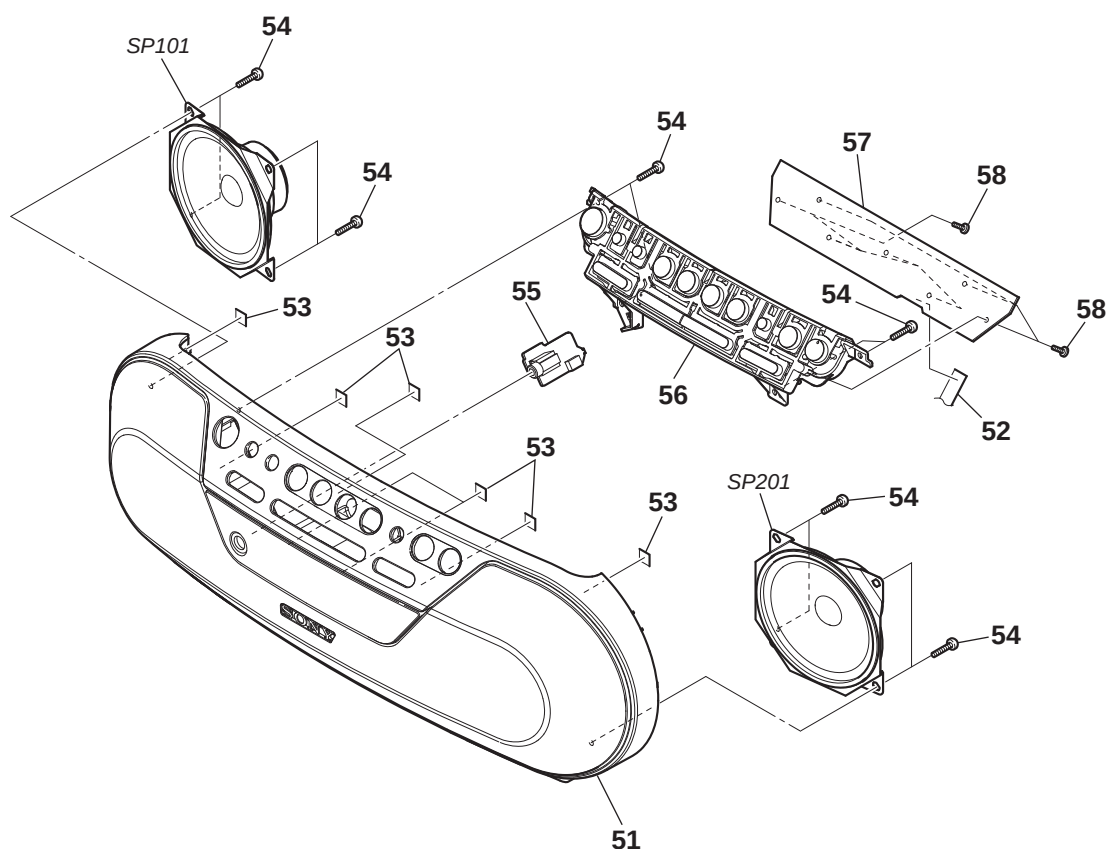
6-1. OVERALL SECTION



Ref. No.	Part No.	Description	Remark
1	4-167-386-11	LID, BATTERY CASE	

Ref. No.	Part No.	Description	Remark
2	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	

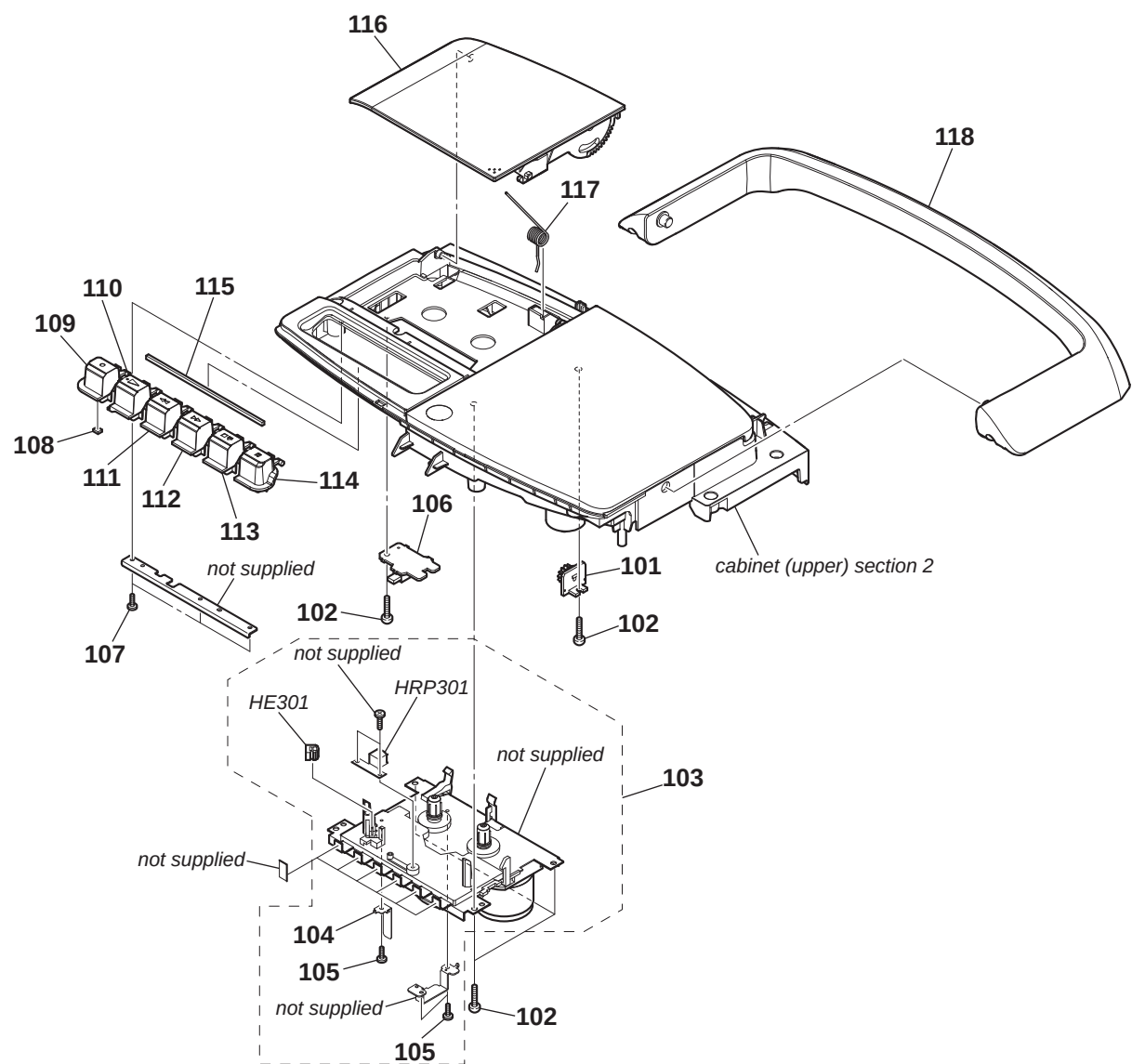
6-2. CABINET (FRONT) SECTION



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-2547-266-1	CABINET (FRONT) ASSY		56	4-167-385-31	BUTTON (CET,IT)	
52	1-831-985-32	CABLE, FLEXIBLE FLAT (5 CORE)		57	A-1765-443-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-1765-444-A	JACK BOARD, COMPLETE		SP201	1-826-280-61	SPEAKER (7.7cm) (R-CH)	
56	4-167-385-21	BUTTON (EXCEPT CET,IT)					

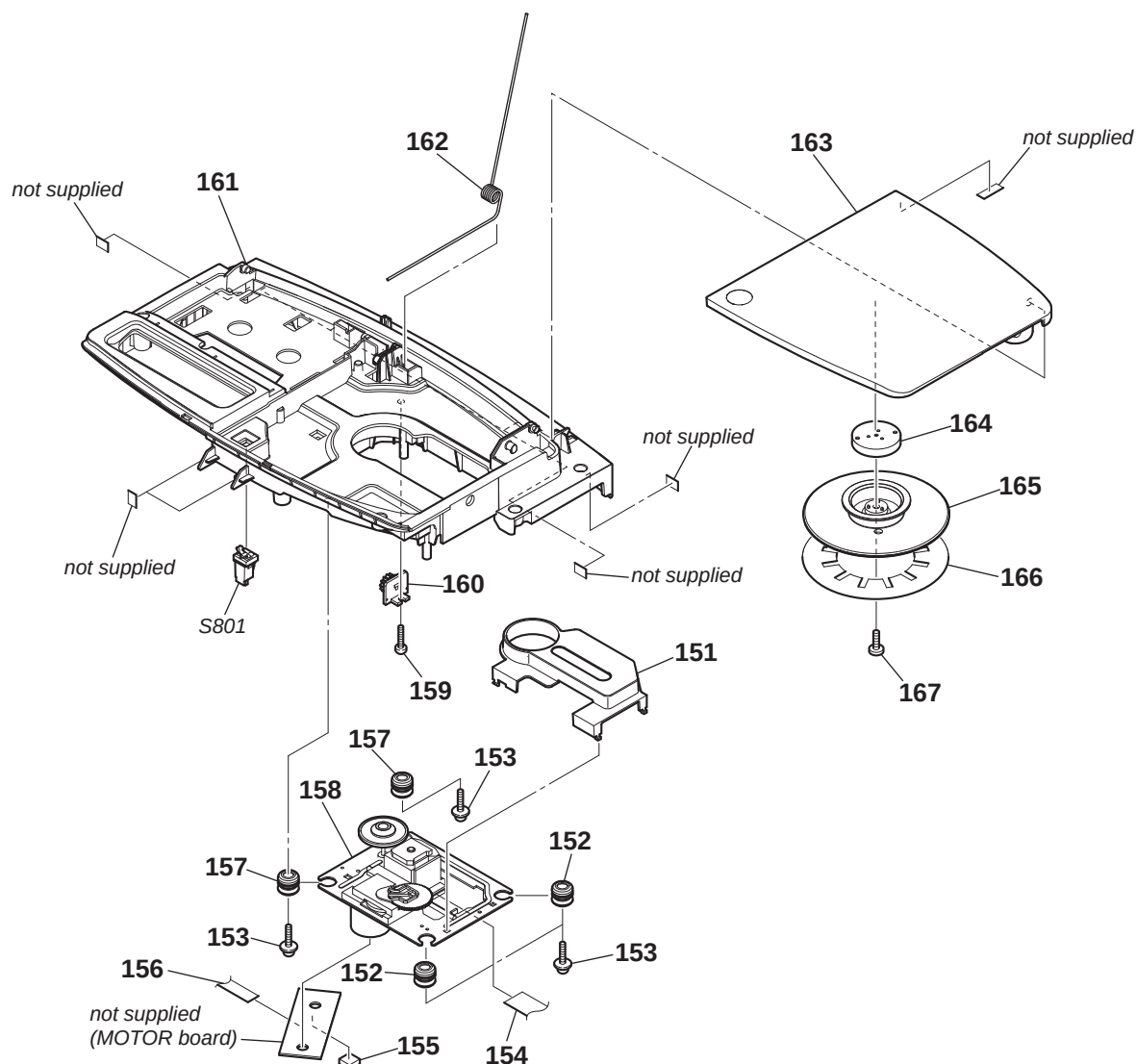
6-3. CABINET (UPPER) SECTION (1)



Ref. No.	Part No.	Description	Remark
101	3-047-468-21	DAMPER	
102	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
103	A-1760-733-A	MD BLOCK ASSY (EXCEPT CET,IT)	
103	A-1761-365-A	MD BLOCK ASSY (CET,IT)	
104	4-167-410-01	LEVER (REC)	
105	3-254-022-01	SCREW	
106	A-1765-456-A	SWITCH BOARD, COMPLETE	
107	3-254-070-01	SCREW	
108	3-831-441-11	CUSHION (B)	
109	4-167-394-11	BUTTON (REC)	
110	4-167-393-11	BUTTON (PLAY)	

Ref. No.	Part No.	Description	Remark
111	4-167-396-11	BUTTON (REW)	
112	4-167-395-11	BUTTON (FF)	
113	4-167-397-11	BUTTON (STOP)	
114	4-167-398-11	BUTTON (PAUSE)	
115	4-183-213-01	CUSHION (CASSETTE BUTTON)	
116	4-167-392-11	LID, CASSETTE	
117	4-167-415-01	SPRING, CASSETTE	
118	4-167-389-11	HANDLE	
HE301	1-500-813-11	HEAD, ERASE (ERASE)	
HRP301	3-266-053-01	HEAD, RP (REC/PB)	

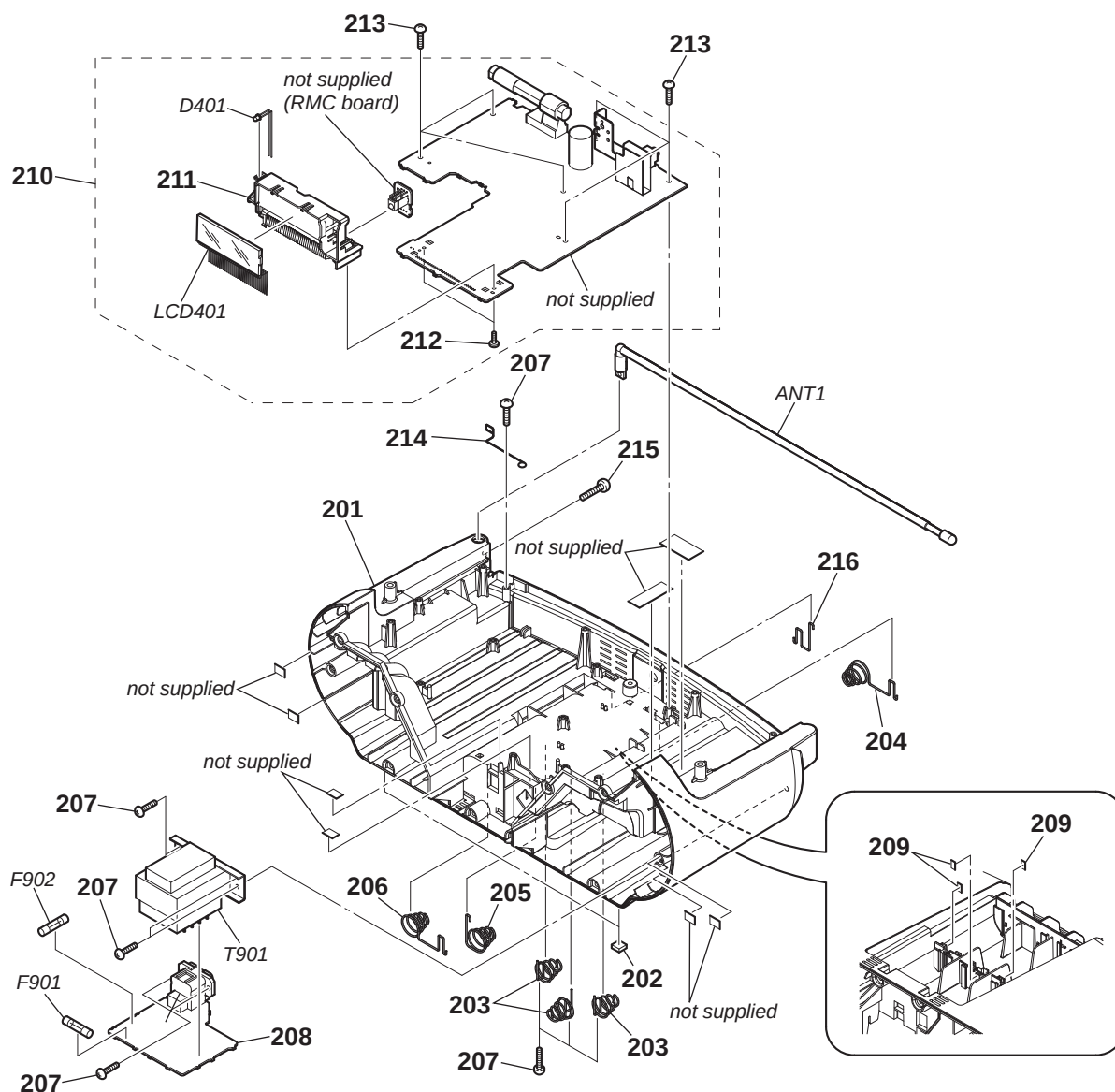
6-4. CABINET (UPPER) SECTION (2)



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	4-167-382-11	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	4-167-390-11	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	Ref. No.	Part No.	Description	Remark
201	4-167-383-21	CABINET (REAR)		210	A-1770-253-A	MAIN BOARD, COMPLETE (CND,E92,MX)	
202	4-167-417-01	FOOT (FRONT), RUBBER		211	4-167-388-01	HOLDER (LCD1027)	
203	3-252-540-01	SPRING (+, -), BATTERY		212	3-254-070-01	SCREW	
204	4-173-526-01	TERMINAL (A (+, -)), BATTERY		213	3-254-151-01	SCREW (B2.6), (+) P TAPPING	
205	4-167-412-01	TERMINAL (-), BATTERY		214	4-167-413-01	TERMINAL, ANTENNA	
206	4-173-527-01	TERMINAL (B (+, -)), BATTERY		215	3-252-833-01	SCREW (M3), (+) P	
207	3-252-827-01	SCREW (B2.6), (+) BV TAPPING		216	4-167-411-01	TERMINAL (+), BATTERY	
208	A-1765-450-A	POWER BOARD, COMPLETE		ANT1	1-754-711-11	ANTENNA, TELESCOPIC (FM)	
		(EXCEPT CND,E92,MX)		D401	6-503-151-01	LED L-3A7HD-16LSF42.5-01 (OPR/BATT)	
208	A-1770-258-A	POWER BOARD, COMPLETE (CND,E92,MX)		△ F901	1-533-468-12	FUSE, GLASS (DIA. 5) (T2AL/250V)	
209	3-831-441-11	CUSHION (B)		△ F902	1-533-468-12	FUSE, GLASS (DIA. 5) (T2AL/250V)	
210	A-1765-446-A	MAIN BOARD, COMPLETE (CET,IT)		LCD401	1-811-084-11	DISPLAY PANEL, LIQUID CRYSTAL	
210	A-1770-222-A	MAIN BOARD, COMPLETE (SP)		△ T901	1-445-818-11	TRANSFORMER, POWER (CND,E92,MX,TW)	
210	A-1770-234-A	MAIN BOARD, COMPLETE (AUS,EA,TH,TW)		△ T901	1-445-820-11	TRANSFORMER, POWER	
210	A-1770-246-A	MAIN BOARD, COMPLETE (E41,AR)				(E41,AUS,AR,CET,EA,IT,SP,TH)	

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C105	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C309	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C120	1-126-960-11	ELECT	1uF	20%	50V	C310	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C121	1-126-960-11	ELECT	1uF	20%	50V	C311	1-126-947-11	ELECT	47uF	20%	35V
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	C330	1-104-662-91	ELECT	22uF	20%	25V
C137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C403	1-126-964-11	ELECT	10uF	20%	50V
C138	1-126-960-11	ELECT	1uF	20%	50V	C404	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C139	1-126-957-11	ELECT	0.22uF	20%	50V	C405	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C140	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C406	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C141	1-126-947-11	ELECT	47uF	20%	35V	C407	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C142	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	C408	1-126-964-11	ELECT	10uF	20%	50V
C143	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C409	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C144	1-126-925-91	ELECT	470uF	20%	10V	C701	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C145	1-104-658-91	ELECT	100uF	20%	10V	C702	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C201	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	C703	1-126-923-91	ELECT	220uF	20%	10V
C202	1-104-658-91	ELECT	100uF	20%	10V	C704	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C203	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C801	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C204	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C802	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C205	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C803	1-126-947-11	ELECT	47uF	20%	35V
C220	1-126-960-11	ELECT	1uF	20%	50V	C804	1-126-947-11	ELECT	47uF	20%	35V
C221	1-126-960-11	ELECT	1uF	20%	50V	C810	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C223	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C812	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C224	1-126-960-11	ELECT	1uF	20%	50V	C813	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C225	1-126-960-11	ELECT	1uF	20%	50V	C814	1-104-658-91	ELECT	100uF	20%	10V
C226	1-126-960-11	ELECT	1uF	20%	50V	C815	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C227	1-126-960-11	ELECT	1uF	20%	50V	C816	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C228	1-126-960-11	ELECT	1uF	20%	50V	C817	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C229	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C818	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C230	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C819	1-126-947-11	ELECT	47uF	20%	35V
C231	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C820	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C234	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C821	1-126-963-11	ELECT	4.7uF	20%	50V
C235	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C822	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C236	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C823	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C237	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C824	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C238	1-126-960-11	ELECT	1uF	20%	50V	C825	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C239	1-126-957-11	ELECT	0.22uF	20%	50V	C827	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C240	1-126-947-11	ELECT	47uF	20%	35V	C828	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C241	1-104-658-91	ELECT	100uF	20%	10V	C829	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C242	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	C830	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C243	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C831	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C244	1-126-925-91	ELECT	470uF	20%	10V	C832	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C245	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C833	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C301	1-104-658-91	ELECT	100uF	20%	10V	C834	1-104-658-91	ELECT	100uF	20%	10V
C302	1-104-658-91	ELECT	100uF	20%	10V	C835	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C303	1-104-658-91	ELECT	100uF	20%	10V						
C304	1-126-947-11	ELECT	47uF	20%	35V						
C305	1-162-962-11	CERAMIC CHIP	470PF	10%	50V						
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C307	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						
C308	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C841	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	CN801	1-784-766-11	CONNECTOR, FFC 5P	
C845	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	CN807	1-815-445-11	PIN, CONNECTOR (PWB) 4P	
C849	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	CN808	1-784-767-11	CONNECTOR, FFC 6P	
C850	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	CN810	1-770-646-11	CONNECTOR, FFC/FPC 16P	
C851	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	CN901	1-815-444-11	PIN, CONNECTOR (PWB) 3P	
C852	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	< DIODE >			
C853	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	D1	8-719-062-51	DIODE 1PS226-115	
C854	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	D2	8-719-991-33	DIODE 1SS133T-77	
C855	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	D3	8-719-991-33	DIODE 1SS133T-77	
C856	1-164-245-11	CERAMIC CHIP 0.015uF 10%	25V	D401	6-503-151-01	LED L-3A7HD-16LSF42.5-01 (OPR/BATT)	
C858	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	D801	6-501-817-01	DIODE MA2J1110GLS0	
C859	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	D802	6-501-817-01	DIODE MA2J1110GLS0 (CET,IT)	
C861	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	D806	6-501-817-01	DIODE MA2J1110GLS0	
C862	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	D807	6-501-817-01	DIODE MA2J1110GLS0	
C863	1-126-947-11	ELECT 47uF 20%	35V	D808	6-500-335-01	DIODE MC2838-T112-1	
C864	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V	D951	6-501-817-01	DIODE MA2J1110GLS0	
C865	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	D952	6-500-334-01	DIODE MC2836-T112-1	
C866	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	D953	8-719-978-33	DIODE DTZ-TT11-6.8B	
C867	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	D954	6-501-719-01	DIODE MAZ8039GHLS0	
C876	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	< FERRITE BEAD >			
C877	1-104-658-91	ELECT 100uF 20%	10V	FB201	1-216-864-11	SHORT CHIP 0 (EXCEPT CET,IT)	
C878	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V	FB201	1-400-979-21	INDUCTOR (EMI FERRITE) (CET,IT)	
C879	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V	FB202	1-216-864-11	SHORT CHIP 0 (EXCEPT CET,IT)	
C880	1-104-658-91	ELECT 100uF 20%	10V	FB202	1-400-979-21	INDUCTOR (EMI FERRITE) (CET,IT)	
C881	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V	FB203	1-216-864-11	SHORT CHIP 0 (EXCEPT CET,IT)	
C882	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	FB203	1-400-979-21	INDUCTOR (EMI FERRITE) (CET,IT)	
C883	1-162-962-11	CERAMIC CHIP 470PF 10%	50V	FB204	1-216-864-11	SHORT CHIP 0 (EXCEPT CET,IT)	
C884	1-162-962-11	CERAMIC CHIP 470PF 10%	50V	FB204	1-400-979-21	INDUCTOR (EMI FERRITE) (CET,IT)	
C885	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	FB205	1-216-864-11	SHORT CHIP 0 (EXCEPT CET,IT)	
C886	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	FB205	1-400-979-21	INDUCTOR (EMI FERRITE) (CET,IT)	
C887	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	FB206	1-216-864-11	SHORT CHIP 0 (EXCEPT CET,IT)	
C888	1-104-658-91	ELECT 100uF 20%	10V	FB206	1-400-979-21	INDUCTOR (EMI FERRITE) (CET,IT)	
C889	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	FB207	1-216-864-11	SHORT CHIP 0 (EXCEPT CET,IT)	
C890	1-104-662-91	ELECT 22uF 20%	25V	FB207	1-400-979-21	INDUCTOR (EMI FERRITE) (CET,IT)	
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	FB802	1-400-981-21	INDUCTOR (EMI FERRITE)	
C893	1-104-658-91	ELECT 100uF 20%	10V	FB803	1-400-979-21	INDUCTOR (EMI FERRITE)	
C894	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	FB804	1-400-981-21	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 UTC8227 S	
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	6-715-263-01	IC TC94A77FG-717	
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	IC806	6-715-273-01	IC HT1621	
C957	1-126-923-91	ELECT 220uF 20%	10V	IC807	8-759-581-11	IC NJM2125F(TE2) (CET,IT)	
C958	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	< JACK >			
C959	1-104-658-91	ELECT 100uF 20%	10V	J301	1-815-325-11	JACK (♂)	
C961	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	< JUMPER RESISTOR >			
C962	1-125-837-91	CERAMIC CHIP 1uF 10%	6.3V	JC301	1-216-864-11	SHORT CHIP 0	
< CONNECTOR >							
CN1	1-815-443-11	PIN, CONNECTOR (PWB) 2P					
CN301	1-815-445-11	PIN, CONNECTOR (PWB) 4P					
CN310	1-815-551-11	PIN, CONNECTOR (PWB) 3P					
CN316	1-815-445-11	PIN, CONNECTOR (PWB) 4P					

CFD-S07CP

MAIN

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
JC801	1-216-864-11	SHORT CHIP	0 (CET,IT)				R132	1-216-836-11	METAL CHIP	18K	5%	1/10W	
JC802	1-216-864-11	SHORT CHIP	0				R134	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
JC803	1-216-864-11	SHORT CHIP	0 (EXCEPT CET,IT)				R136	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
JC804	1-216-864-11	SHORT CHIP	0 (CET,IT)				R137	1-216-821-11	METAL CHIP	1K	5%	1/10W	
		< COIL >					R138	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
L1	1-457-904-11	COIL, BAR ANTENNA (AM)					R139	1-216-821-11	METAL CHIP	1K	5%	1/10W	
L2	1-410-517-11	INDUCTOR	47uH				R140	1-216-811-11	METAL CHIP	150	5%	1/10W	
L4	1-412-006-31	INDUCTOR	10uH				R141	1-216-789-11	METAL CHIP	2.2	5%	1/10W	
L5	1-410-750-41	INDUCTOR	0.47uH				R142	1-216-811-11	METAL CHIP	150	5%	1/10W	
L6	1-412-975-31	INDUCTOR	0.47uH				R145	1-216-833-11	METAL CHIP	10K	5%	1/10W	
L802	1-410-509-11	INDUCTOR	10uH				R202	1-216-807-11	METAL CHIP	68	5%	1/10W	
L803	1-410-513-11	INDUCTOR	22uH				R203	1-216-843-11	METAL CHIP	68K	5%	1/10W	
L804	1-410-750-41	INDUCTOR	0.47uH				R204	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
L805	1-410-517-11	INDUCTOR	47uH				R207	1-216-835-11	METAL CHIP	15K	5%	1/10W	
L811	1-410-509-11	INDUCTOR	10uH				R210	1-216-809-11	METAL CHIP	100	5%	1/10W	
		< LIQUID CRYSTAL DISPLAY >					R223	1-216-837-11	METAL CHIP	22K	5%	1/10W	
LCD401	1-811-084-11	DISPLAY PANEL, LIQUID CRYSTAL					R224	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
		< TRANSISTOR >					R225	1-216-833-11	METAL CHIP	10K	5%	1/10W	
Q102	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF				R226	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
Q202	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF				R228	1-216-833-11	METAL CHIP	10K	5%	1/10W	
Q301	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R				R229	1-216-839-11	METAL CHIP	33K	5%	1/10W	
Q302	8-729-027-46	TRANSISTOR	DTC114YKA-T146				R230	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	
Q303	8-729-027-46	TRANSISTOR	DTC114YKA-T146				R232	1-216-836-11	METAL CHIP	18K	5%	1/10W	
Q701	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF				R234	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
Q803	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF (CET,IT)				R236	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
Q804	6-552-482-01	FET	INJ0203AC1-T112-1				R237	1-216-821-11	METAL CHIP	1K	5%	1/10W	
Q805	8-729-027-46	TRANSISTOR	DTC114YKA-T146				R238	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
Q806	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF (CET,IT)				R239	1-216-821-11	METAL CHIP	1K	5%	1/10W	
Q808	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF				R240	1-216-811-11	METAL CHIP	150	5%	1/10W	
Q951	6-551-444-01	TRANSISTOR	RT1N436C-TP-1				R241	1-216-789-11	METAL CHIP	2.2	5%	1/10W	
Q952	8-729-040-76	TRANSISTOR	KTA1273-Y-AT				R242	1-216-811-11	METAL CHIP	150	5%	1/10W	
Q953	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF				R245	1-216-833-11	METAL CHIP	10K	5%	1/10W	
Q954	8-729-018-99	TRANSISTOR	2SD2394-F				R301	1-216-857-11	METAL CHIP	1M	5%	1/10W	
Q955	8-729-036-86	TRANSISTOR	KTC3203Y-AT				R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
		< RESISTOR >					R304	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R1	1-216-797-11	METAL CHIP	10	5%	1/10W		R305	1-216-817-11	METAL CHIP	470	5%	1/10W	
R3	1-216-821-11	METAL CHIP	1K	5%	1/10W		R306	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R4	1-216-821-11	METAL CHIP	1K	5%	1/10W		R307	1-216-797-11	METAL CHIP	10	5%	1/10W	
R6	1-216-821-11	METAL CHIP	1K	5%	1/10W		R308	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R7	1-216-821-11	METAL CHIP	1K	5%	1/10W		R309	1-216-805-11	METAL CHIP	47	5%	1/10W	
R8	1-216-821-11	METAL CHIP	1K	5%	1/10W		R310	1-216-857-11	METAL CHIP	1M	5%	1/10W	
R10	1-216-821-11	METAL CHIP	1K	5%	1/10W		R311	1-216-857-11	METAL CHIP	1M	5%	1/10W	
R11	1-216-864-11	SHORT CHIP	0				R314	1-216-817-11	METAL CHIP	470	5%	1/10W	
R21	1-216-864-11	SHORT CHIP	0				R315	1-216-817-11	METAL CHIP	470	5%	1/10W	
R102	1-216-807-11	METAL CHIP	68	5%	1/10W		R320	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R103	1-216-843-11	METAL CHIP	68K	5%	1/10W		R321	1-216-809-11	METAL CHIP	100	5%	1/10W	
R104	1-216-827-11	METAL CHIP	3.3K	5%	1/10W		R324	1-216-809-11	METAL CHIP	100	5%	1/10W	
R107	1-216-835-11	METAL CHIP	15K	5%	1/10W		R325	1-216-817-11	METAL CHIP	470	5%	1/10W	
R110	1-216-809-11	METAL CHIP	100	5%	1/10W		R326	1-216-817-11	METAL CHIP	470	5%	1/10W	
R123	1-216-837-11	METAL CHIP	22K	5%	1/10W		R350	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R124	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		R351	1-216-864-11	SHORT CHIP	0			
R125	1-216-833-11	METAL CHIP	10K	5%	1/10W		R402	1-216-845-11	METAL CHIP	100K	5%	1/10W	(CET,IT)
R126	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W		R407	1-216-833-11	METAL CHIP	10K	5%	1/10W	(CET,IT)
R128	1-216-833-11	METAL CHIP	10K	5%	1/10W		R409	1-216-841-11	METAL CHIP	47K	5%	1/10W	(CET,IT)
R129	1-216-839-11	METAL CHIP	33K	5%	1/10W		R410	1-216-833-11	METAL CHIP	10K	5%	1/10W	(CET,IT)
R130	1-216-828-11	METAL CHIP	3.9K	5%	1/10W		R412	1-216-833-11	METAL CHIP	10K	5%	1/10W	(EXCEPT CET,IT)

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R414	1-216-821-11	METAL CHIP	1K	5%	1/10W	(CET,IT)	R837	1-216-864-11	SHORT CHIP	0			
R420	1-216-859-11	METAL CHIP	1.5M	5%	1/10W	(CET,IT)	R838	1-216-864-11	SHORT CHIP	0			
R421	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	(CET,IT)	R844	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R422	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	(CET,IT)	R850	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R423	1-216-837-11	METAL CHIP	22K	5%	1/10W	(CET,IT)	R851	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R424	1-216-837-11	METAL CHIP	22K	5%	1/10W	(CET,IT)	R852	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R425	1-216-837-11	METAL CHIP	22K	5%	1/10W	(CET,IT)	R853	1-216-851-11	METAL CHIP	330K	5%	1/10W	
R701	1-216-837-11	METAL CHIP	22K	5%	1/10W		R854	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R702	1-216-837-11	METAL CHIP	22K	5%	1/10W		R855	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R703	1-216-845-11	METAL CHIP	100K	5%	1/10W		R856	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R704	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R857	1-216-839-11	METAL CHIP	33K	5%	1/10W	
R705	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R858	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R706	1-216-864-11	SHORT CHIP	0				R859	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R707	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		R860	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R708	1-216-864-11	SHORT CHIP	0				R861	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R713	1-216-837-11	METAL CHIP	22K	5%	1/10W		R862	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R714	1-216-864-11	SHORT CHIP	0				R863	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R715	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		R864	1-216-864-11	SHORT CHIP	0			
R719	1-216-864-11	SHORT CHIP	0				R865	1-216-864-11	SHORT CHIP	0			
R720	1-216-864-11	SHORT CHIP	0				R866	1-216-797-11	METAL CHIP	10	5%	1/10W	
R801	1-216-864-11	SHORT CHIP	0				R867	1-216-864-11	SHORT CHIP	0			
R802	1-216-864-11	SHORT CHIP	0				R868	1-216-864-11	SHORT CHIP	0			
R803	1-216-864-11	SHORT CHIP	0				R869	1-216-817-11	METAL CHIP	470	5%	1/10W	
R804	1-216-864-11	SHORT CHIP	0				R870	1-216-818-11	METAL CHIP	560	5%	1/10W	
R805	1-216-821-11	METAL CHIP	1K	5%	1/10W		R872	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R806	1-216-821-11	METAL CHIP	1K	5%	1/10W		R873	1-216-813-11	METAL CHIP	220	5%	1/10W	
R807	1-216-821-11	METAL CHIP	1K	5%	1/10W		R874	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R808	1-216-821-11	METAL CHIP	1K	5%	1/10W		R875	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R809	1-216-813-11	METAL CHIP	220	5%	1/10W		R876	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R810	1-216-821-11	METAL CHIP	1K	5%	1/10W		R877	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R811	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R878	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R812	1-216-864-11	SHORT CHIP	0				R879	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R813	1-216-864-11	SHORT CHIP	0				R880	1-216-853-11	METAL CHIP	470K	5%	1/10W	
R814	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R881	1-216-850-11	METAL CHIP	270K	5%	1/10W	
R815	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R883	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R816	1-216-853-11	METAL CHIP	470K	5%	1/10W		R884	1-216-857-11	METAL CHIP	1M	5%	1/10W	
R818	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R885	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R819	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R886	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R820	1-216-864-11	SHORT CHIP	0				R887	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R821	1-216-817-11	METAL CHIP	470	5%	1/10W		R888	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R822	1-216-817-11	METAL CHIP	470	5%	1/10W		R889	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R823	1-216-817-11	METAL CHIP	470	5%	1/10W		R890	1-216-837-11	METAL CHIP	22K	5%	1/10W	(CND,E92,MX)
R824	1-216-817-11	METAL CHIP	470	5%	1/10W		R890	1-216-838-11	METAL CHIP	27K	5%	1/10W	(E41,AR)
R825	1-216-821-11	METAL CHIP	1K	5%	1/10W		R890	1-216-839-11	METAL CHIP	33K	5%	1/10W	(SP)
R826	1-216-817-11	METAL CHIP	470	5%	1/10W		R890	1-216-864-11	SHORT CHIP	0 (CET,IT)			
R827	1-216-821-11	METAL CHIP	1K	5%	1/10W		R891	1-216-835-11	METAL CHIP	15K	5%	1/10W	(SP)
R828	1-216-817-11	METAL CHIP	470	5%	1/10W		R891	1-216-837-11	METAL CHIP	22K	5%	1/10W	(E41,AR)
R829	1-216-821-11	METAL CHIP	1K	5%	1/10W		R891	1-216-841-11	METAL CHIP	47K	5%	1/10W	(CND,E92,MX)
R830	1-216-821-11	METAL CHIP	1K	5%	1/10W		R891	1-216-864-11	SHORT CHIP	0 (AUS,EA,TH,TW)			
R831	1-216-817-11	METAL CHIP	470	5%	1/10W		R892	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R832	1-216-833-11	METAL CHIP	10K	5%	1/10W	(CET,IT)	R893	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R833	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R894	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R834	1-216-833-11	METAL CHIP	10K	5%	1/10W		R895	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R836	1-216-821-11	METAL CHIP	1K	5%	1/10W		R896	1-216-833-11	METAL CHIP	10K	5%	1/10W	
							R897	1-216-833-11	METAL CHIP	10K	5%	1/10W	

CFD-S07CP

MAIN	MOTOR	POWER	RMC	SWITCH
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Ref. No.	Part No.	Description			Remark
R898	1-216-833-11	METAL CHIP	10K	5%	1/10W
R899	1-216-833-11	METAL CHIP	10K	5%	1/10W
R900	1-216-833-11	METAL CHIP	10K	5%	1/10W
R901	1-216-833-11	METAL CHIP	10K	5%	1/10W
R902	1-216-833-11	METAL CHIP	10K	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
R967	1-216-833-11	METAL CHIP	10K	5%	1/10W
R969	1-216-833-11	METAL CHIP	10K	5%	1/10W
R970	1-216-833-11	METAL CHIP	10K	5%	1/10W
R971	1-216-833-11	METAL CHIP	10K	5%	1/10W
R972	1-216-833-11	METAL CHIP	10K	5%	1/10W
R973	1-216-833-11	METAL CHIP	10K	5%	1/10W
R974	1-216-833-11	METAL CHIP	10K	5%	1/10W
R975	1-216-833-11	METAL CHIP	10K	5%	1/10W
R976	1-216-833-11	METAL CHIP	10K	5%	1/10W
R977	1-216-833-11	METAL CHIP	10K	5%	1/10W
R978	1-216-833-11	METAL CHIP	10K	5%	1/10W
R979	1-216-833-11	METAL CHIP	10K	5%	1/10W
R980	1-216-833-11	METAL CHIP	10K	5%	1/10W
R981	1-216-833-11	METAL CHIP	10K	5%	1/10W
R982	1-216-833-11	METAL CHIP	10K	5%	1/10W
R983	1-216-833-11	METAL CHIP	10K	5%	1/10W
R984	1-216-833-11	METAL CHIP	10K	5%	1/10W
R985	1-216-833-11	METAL CHIP	10K	5%	1/10W
R986	1-216-833-11	METAL CHIP	10K	5%	1/10W
R987	1-216-833-11	METAL CHIP	10K	5%	1/10W
R988	1-216-833-11	METAL CHIP	10K	5%	1/10W
R989	1-216-864-11	SHORT CHIP	0		
R992	1-216-864-11	SHORT CHIP	0		
R993	1-216-833-11	METAL CHIP	10K	5%	1/10W
R994	1-216-833-11	METAL CHIP	10K	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	1-814-254-21	VIBRATOR, CERAMIC (4.19MHz)			

MOTOR BOARD					

< SWITCH >					
S701	1-572-085-21	SWITCH, LEAF (LIMIT)			

Ref. No.	Part No.	Description	Remark			
	A-1765-450-A	POWER BOARD, COMPLETE (EXCEPT	CND,E92,MX)			
	A-1770-258-A	POWER BOARD, COMPLETE (CND,E92,MX)	*****			
		< 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				
		< 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) (EXCEPT CND,E92,MX)				
△ J901	1-540-009-13	INLET, AC (∼ AC IN) (CND,E92,MX)	*****			
		RMC BOARD	(supplied with MAIN BOARD, COMPLETE)			

		< CAPACITOR >				
C963	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C964	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
		< IC >				
IC401	6-600-768-01	IC PNA4823M03S0 (IR)				
		< RESISTOR >				
R426	1-216-821-11	METAL CHIP	1K	5%	1/10W	

	A-1765-456-A	SWITCH BOARD, COMPLETE	*****			
		< CONNECTOR >				
CN318	1-815-446-11	PIN, CONNECTOR (PWB) 5P				
		< SWITCH >				
S301	1-786-126-11	SWITCH, SLIDE (REC/PB)	*****			

Ref. No.	Part No.	Description	Remark
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	1-754-711-11	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 (CND,E92,MX,TW)	
△ T901	1-445-820-11	TRANSFORMER, POWER (E41,AUS,AR,CET,EA,IT,SP,TH)	

ACCESSORIES			

△	1-783-952-21	CORD, POWER (AR)	
△	1-829-433-13	CORD, POWER (TW)	
△	1-834-539-14	CORD, POWER (TH)	
△	1-835-070-12	CORD SET, POWER (EA)	
△	1-835-164-12	CORD SET, POWER (AUS)	
△	1-836-379-12	CORD, POWER (E41,CET,EA,IT,SP)	
△	1-837-541-11	CORD, POWER (CND,E92,MX)	
	3-238-070-01	LID, BATTERY CASE (for RM-CE95A/CE95AD)	
	4-178-175-11	MANUAL, INSTRUCTION (ENGLISH,SPANISH) (E92,MX)	
	4-178-175-21	MANUAL, INSTRUCTION (ENGLISH,FRENCH) (CND)	
	4-178-175-31	MANUAL, INSTRUCTION (ENGLISH) (AUS,IT,TH)	
	4-178-175-41	MANUAL, INSTRUCTION (FRENCH,GERMAN) (IT)	
	4-178-175-51	MANUAL, INSTRUCTION (SPANISH,ITALIAN) (IT)	
	4-178-175-61	MANUAL, INSTRUCTION (DUTCH,PORTUGUESE) (IT)	
	4-178-175-71	MANUAL, INSTRUCTION (ENGLISH, SIMPLIFIED CHINESE) (SP)	
	4-178-175-91	MANUAL, INSTRUCTION (ENGLISH, TRADITIONAL CHINESE) (TW)	
	4-178-176-11	MANUAL, INSTRUCTION (FINNISH,SWEDISH) (CET)	
	4-178-176-21	MANUAL, INSTRUCTION (POLISH,HUNGARIAN) (CET)	
	4-178-176-31	MANUAL, INSTRUCTION (CZECH,SLOVAKIAN) (CET)	
	4-178-176-41	MANUAL, INSTRUCTION (RUSSIAN,UKRAINIAN) (CET)	
	4-178-176-51	MANUAL, INSTRUCTION (ENGLISH,SPANISH) (E41,AR)	
	4-178-176-61	MANUAL, INSTRUCTION (ENGLISH,ARABIC) (EA)	
	A-3172-070-A	REMOTE COMMANDER (RMT-CE95AD) (CET,IT)	
	A-3172-079-A	REMOTE COMMANDER (RMT-CE95A) (EXCEPT CET,IT)	

REVISION HISTORY

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