

D-EJ775

SERVICE MANUAL

Ver 1.2 2002.09



Canadian Model
AEP Model
UK Model
E Model
Australian Model
Chinese Model
Tourist Model

Model Name Using Similar Mechanism	D-EJ955
CD Mechanism Type	CDM-3325ES
Optical Pick-up Name	DAX-25E

SPECIFICATIONS

System

Compact disc digital audio system

Laser diode properties

Material: GaAlAs

Wavelength: $\lambda = 780 \text{ nm}$

Emission duration: Continuous

Laser output: Less than $44.6 \mu\text{W}$

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

D-A conversion

1-bit quartz time-axis control

Frequency response

40 - 20 000 Hz $^{+1}_{-5}$ dB (measured by JEITA CP-307)

Output (at 4.5 V input level)

Headphones (stereo minijack)

Approx. 5 mW + Approx. 5 mW at 16 Ω

(Approx. 0.5 mW + Approx. 0.5 mW at 16 Ω)*

*For the customers in France

Power requirements

For the area code of the model you purchased, check the upper left side of the bar code on the package.

- Two Sony NC-WMAA rechargeable batteries: 2.4 V DC
- Sony NH-WM2AA rechargeable batteries: 2.4 V DC
- Two LR6 (size AA) batteries: 3 V DC
- AC power adaptor (DC IN 4.5 V jack):
Canadian and Taiwan models:
120 V, 60 Hz

AEP and E13 models:

220 - 230 V, 50/60 Hz

UK model: 230 - 240 V, 50 Hz

Australian model: 240 V, 50 Hz

Tourist, E33 and Korean models: 100 - 240 V, 50/60 Hz

Hong Kong model: 220 V, 50/60 Hz

Chinese model: 220 V, 50 Hz

Battery life* (approx. hours)

(When you use the CD player on a flat and stable surface.)

Playing time varies depending on how the CD player is used.

When using	G-PROTECTION function	
	on	off
Two NC-WMAA (charged for about 3 hours**)	12	8
NH-WM2AA (charged for about 5 hours**)	22	17
Two Sony alkaline batteries LR6(SG) (produced in Japan)	41	29

* Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association).

** Charging time varies depending on how the rechargeable battery is used.

Operating temperature

5°C - 35°C (41°F - 95°F)

Dimensions (w/h/d) (excluding projecting parts and controls)

Approx. 136.0 × 19.8 × 136.0 mm
(5 $\frac{3}{8}$ × 2 $\frac{5}{32}$ × 5 $\frac{3}{8}$ in.)

Mass (excluding accessories)

Approx. 160 g (5.7 oz.)

Supplied accessories

For the area code of the location in which you purchased the CD player, check the upper left side of the bar code on the package.

- AC power adaptor (1)
- Headphones/earphones with remote control (1)
- Rechargeable batteries (2)
- Battery carrying case (1)
- AC plug adaptor (1)*¹

*¹ Supplied with Tourist and E33 models

Design and specifications are subject to change without notice.

- Abbreviation
E13: 220 - 230 V AC area in E model
E33: 100 - 240 V AC area in E model

PORTABLE CD PLAYER

9-873-592-03

200210500-1

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Sony Corporation

Personal Audio Company

Published by Sony Engineering Corporation

SONY®

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On AC power adaptor

- Use only the AC power adaptor supplied or recommended in "Accessories (supplied/optional)." Do not use any other AC power adaptor. It may cause a malfunction.

Polarity of the plug



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 the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION

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

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

SAFETY-RELATED COMPONENT WARNING!!

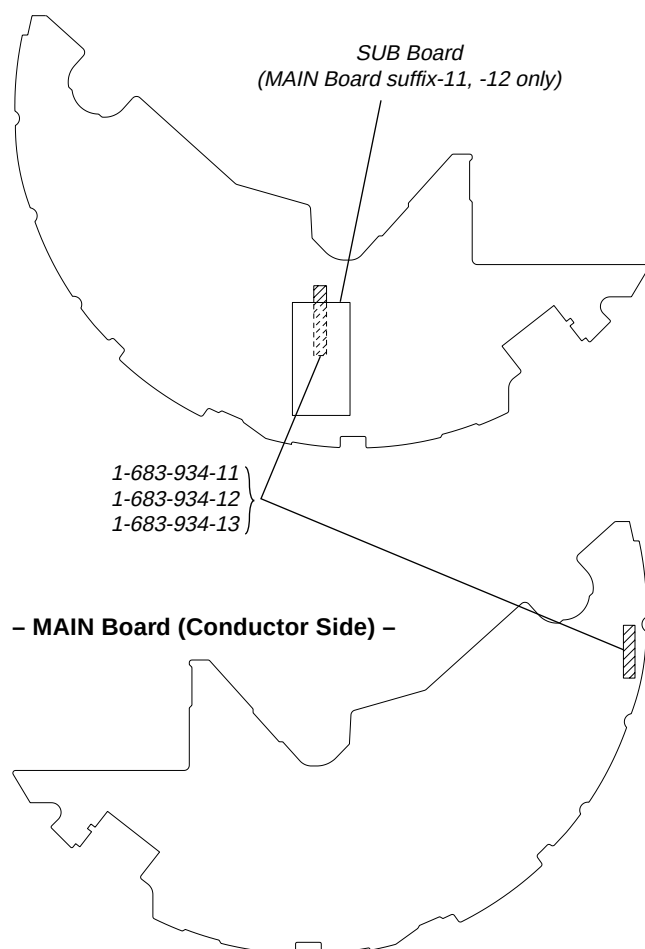
COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

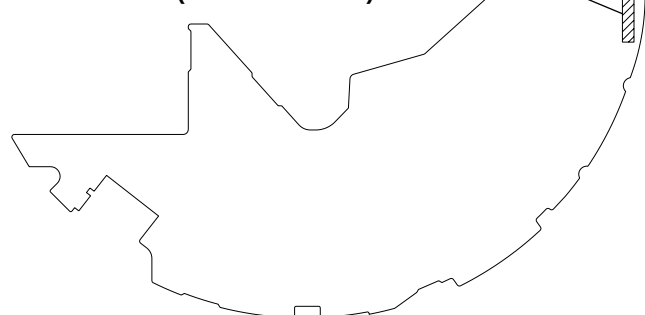
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE $\triangle$ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 SERVICING NOTES

MAIN BOARD IDENTIFICATION – MAIN Board (Component Side) –



– MAIN Board (Conductor Side) –



ABOUT CD-Rs/CD-RWs

This CD player can play CD-Rs/CD-RWs recorded in the CD-DA format*, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

* CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for the Audio CDs.

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

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown 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 pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

BEFORE REPLACING THE OPTICAL PICK-UP BLOCK

Please be sure to check thoroughly the parameters as per the "Optical Pick-Up Block Checking Procedures" (Part No.: 9-960-027-11) issued separately before replacing the optical pick-up block. Note and specifications required to check are given below.

- FOK output: IC601 ⑨ pin
When checking FOK, remove the lead wire to disc motor.
- RF signal P-to-P value: 0.4 to 1 Vp-p

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

During normal operation of the equipment, emission of the laser diode is prohibited unless the upper lid is closed while turning ON the S801. (push switch type)

The following checking method for the laser diode is operable.

• Method:

Emission of the laser diode is visually checked.

1. Open the upper lid.
2. With a disc not set, turn on the S801 with a screwdriver having a thin tip as shown in Fig.1.
3. Press the key.
4. Observing the objective lens, check that the laser diode emits light.

When the laser diode does not emit light, automatic power control circuit or optical pickup is faulty.

In this operation, the objective lens will move up and down 5 times along with inward motion for the focus search.

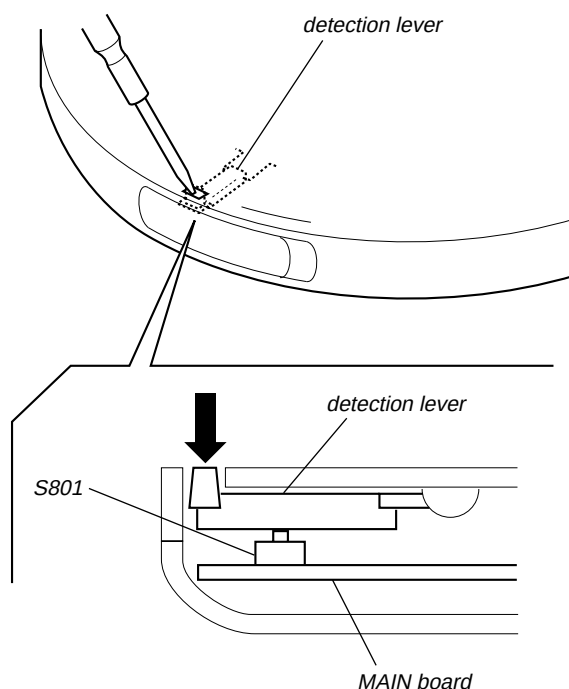


Fig. 1 Method to push the S804

SERVICE MODE

In the Service mode, this set can check the following.

1. Service Mode Setting Method

To set the service mode, perform as follows.

- 1) Make sure that the power is not turned on.
- 2) Check for the following states:

HOLD switch (S802)	 OFF
SOUND switch (S808)	 OFF
G*PROTECTION switch (S803)	 ON
- 3) Short the solder bridge at the TAP801 (TEST) and TAP802 (OPEN) on the MAIN board (see Fig. 2).
- 4) Turn the power on.

– MAIN Board (Component Side) –

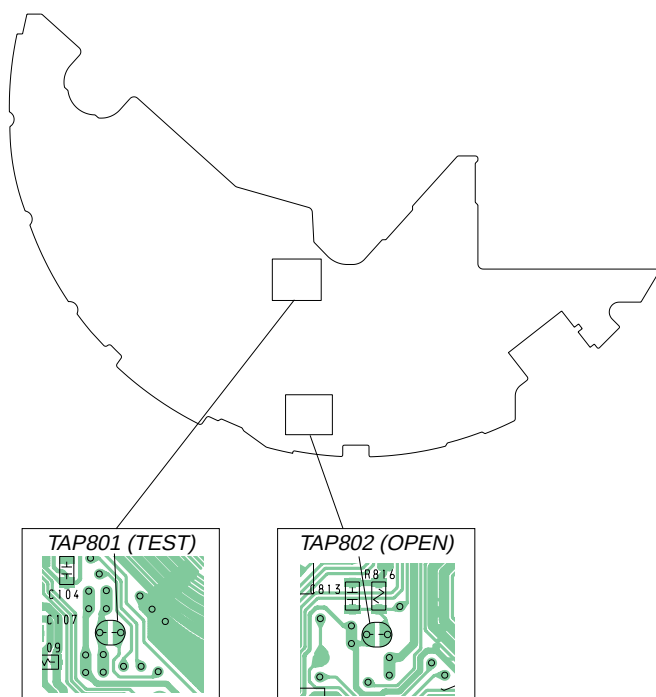
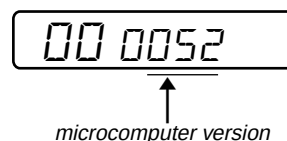


Fig. 2

2. Operation in Service Mode

When the Service mode is set, the LCD on the remote commander displays the microcomputer version.



3. Operation of Buttons in Service Mode

The following operation can be checked by operating the buttons on the set and remote commander.

- **▶▶▶▶ / ◀◀◀◀** keys on the set or remote commander
Tracking/sled servo off
Focus search Spindle servo on

Note: Do not look directly at the laser beam from the optical pick-up.

- **VOL + / VOL -** keys on the set or remote commander
Tracking servo off
Optical pick-up movement (outward or inward)

Note: Do not move forcibly the optical pick-up exceeding the most-out-side or most-inside track.

- **■** key on the set or remote commander
All servos (focus/tracking/sled) off
- **MENU** key on the set
Spindle speed change
Tracking/sled servo on
- **SOUND** key on the set
Servo auto adjustment

4. Service Mode Releasing Method

To release the service mode, perform as follows.

- 1) Turn the power off.
- 2) Open the solder bridge at the TAP801 (TEST) and TAP802 (OPEN) on the MAIN board.

Note: Remove the solder completely.

SECTION 2
GENERAL

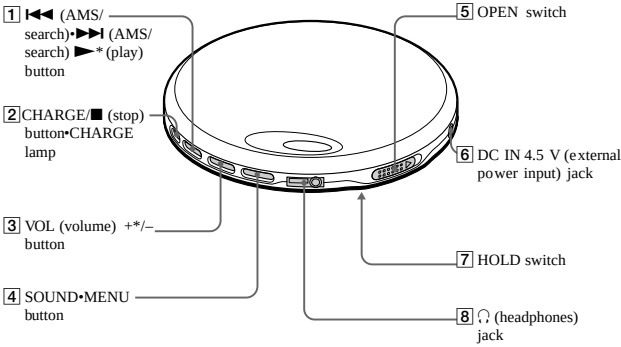
This section is extracted from instruction manual.

Getting started

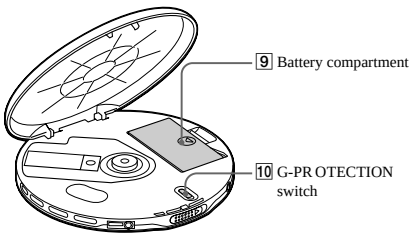
Locating the controls

For details, see pages in parentheses.

CD player (front)

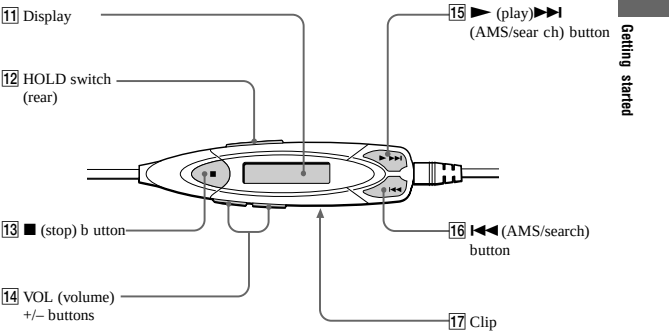


CD player (inside)



*The button has a tactile dot.

Remote control



Note

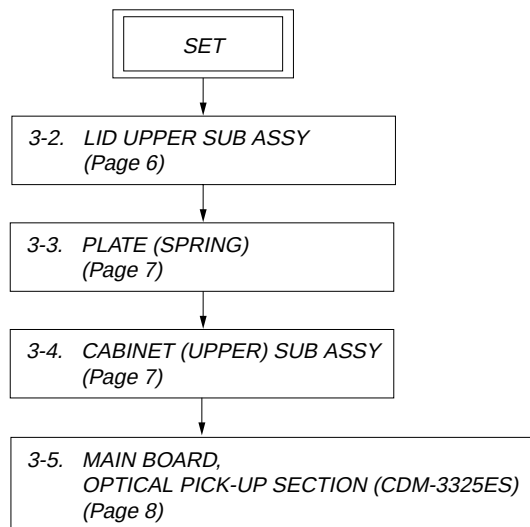
Use only the supplied remote control. You cannot operate this CD player with the remote control supplied with other CD players.

Getting started

SECTION 3 DISASSEMBLY

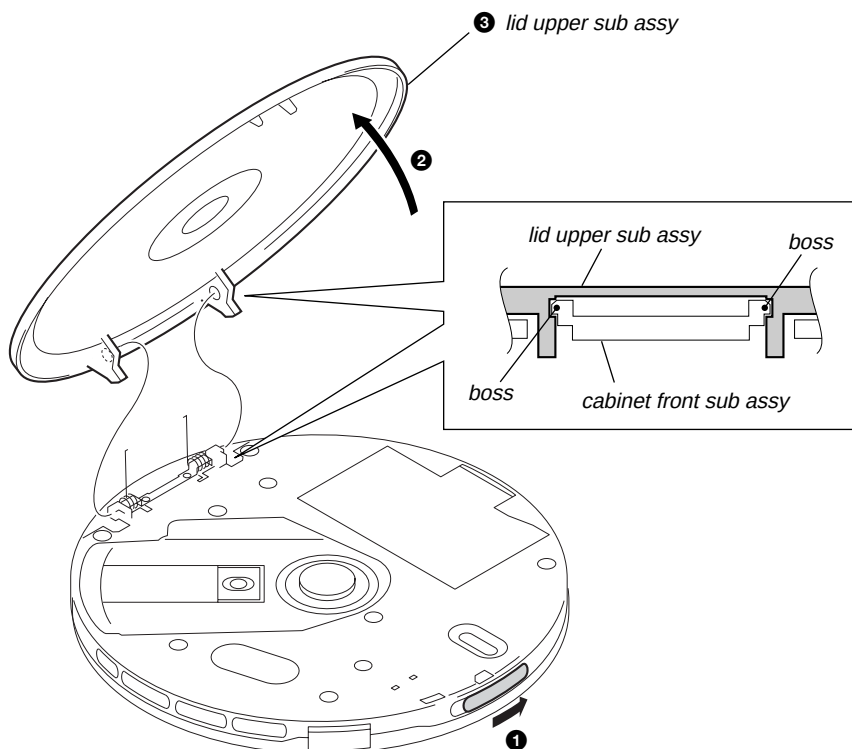
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

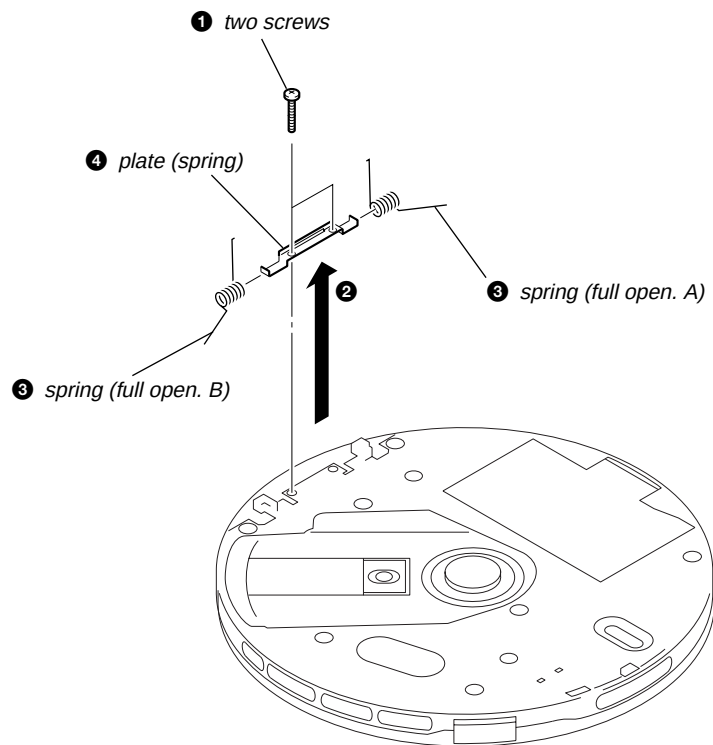


Note: Follow the disassembly procedure in the numerical order given.

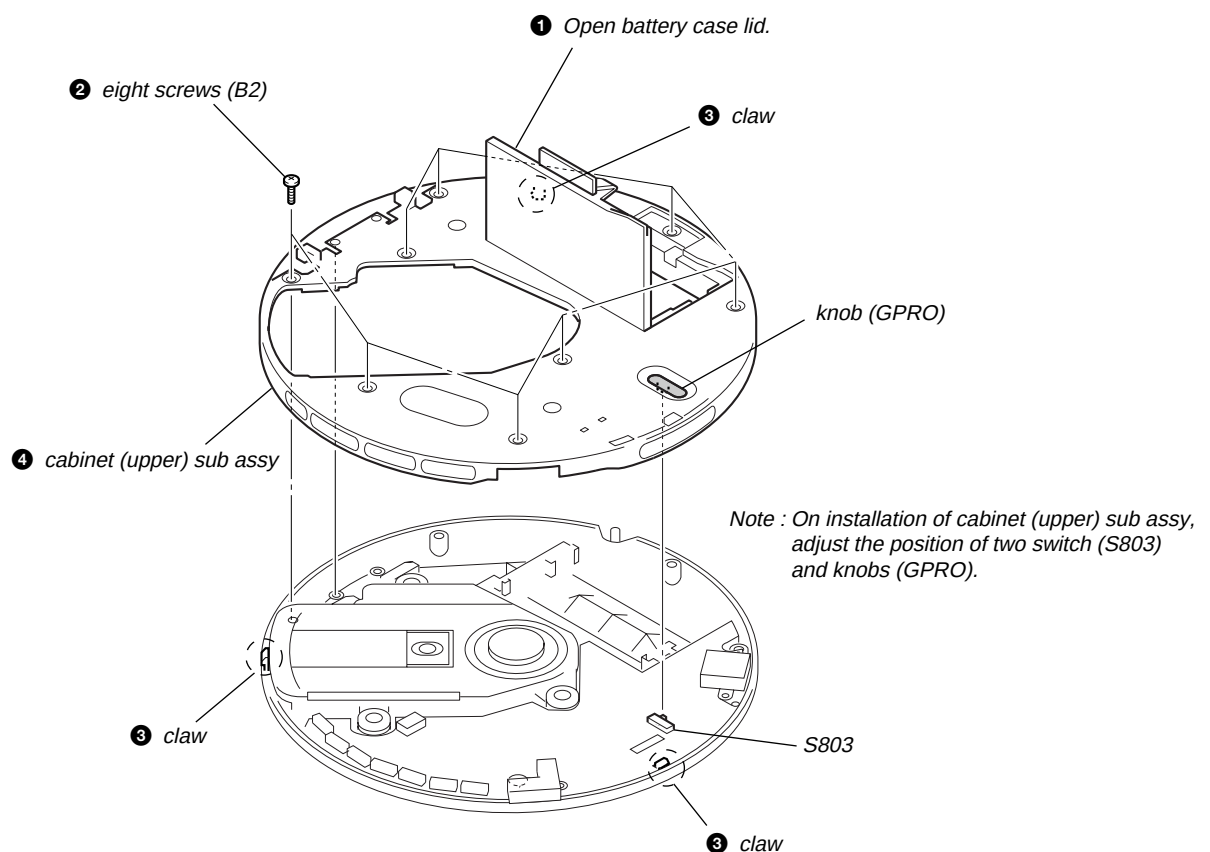
3-2. LID UPPER SUB ASSY



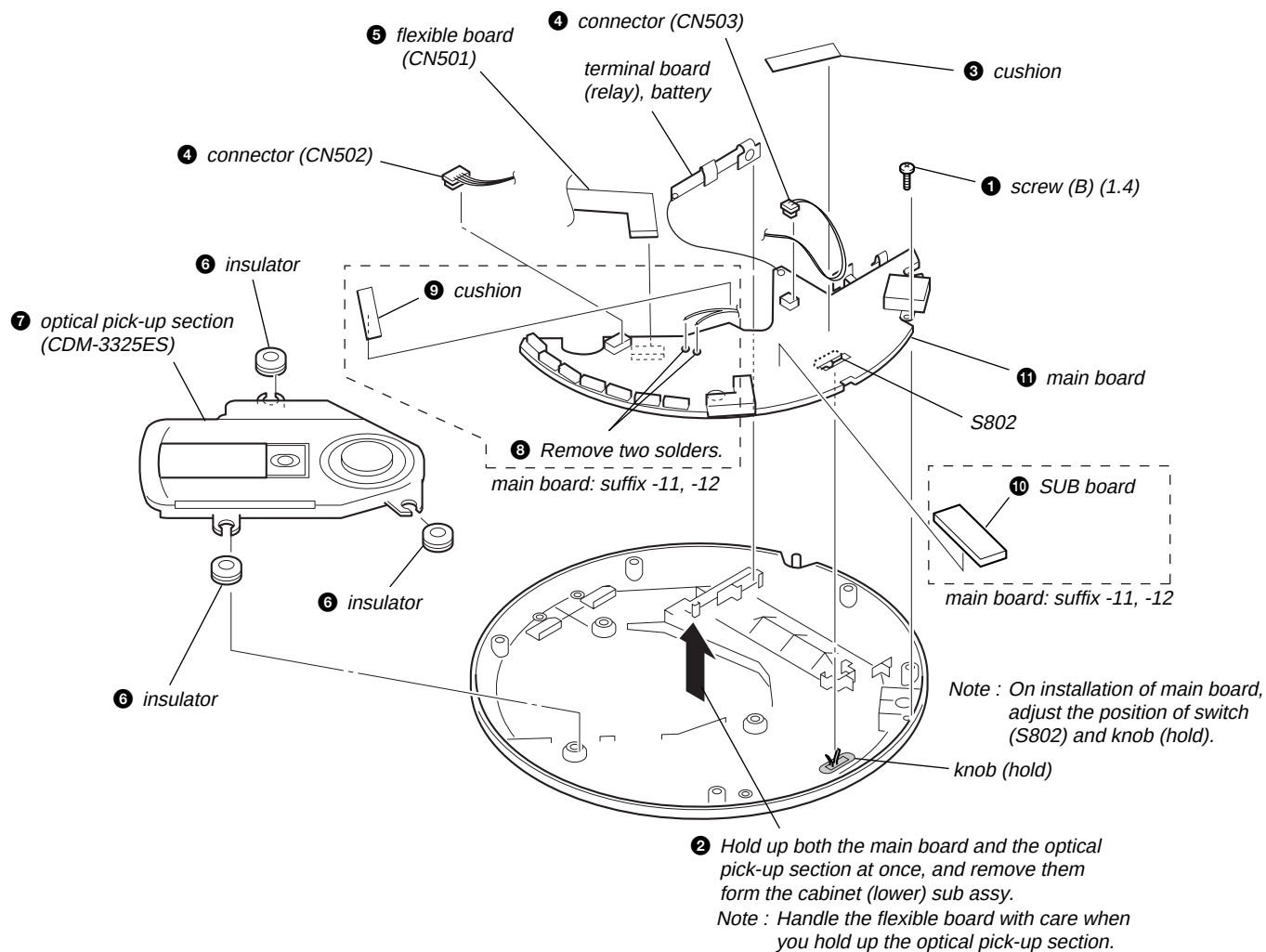
3-3. PLATE (SPRING)



3-4. CABINET (UPPER) SUB ASSY



3-5. MAIN BOARD OPTICAL PICK-UP SECTION (CDM-3325ES)



SECTION 4 ELECTRICAL ADJUSTMENTS

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

PRECAUTIONS FOR ADJUSTMENT

1. Perform adjustment in the order given.
2. Use YEDS-18 disc (Part No.: 3-702-101-01) unless otherwise indicated.
3. Power supply voltage requirement: DC4.5 V in DC IN jack.
(J401)

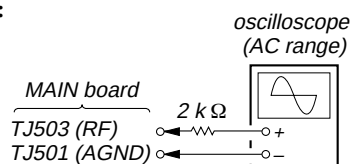
VOLUME : Minimum
[SOUND] switch : OFF
[HOLD] switch : OFF
[G•PROTECTION] switch : ON

FOCUS BIAS CHECK

Condition:

- Hold the set in horizontal state.

Connection:

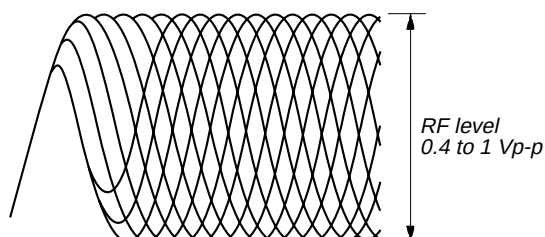


Procedure:

1. Connect the oscilloscope to the test points TJ503 (RF) and TJ501 (AGND) on the MAIN board.
2. Set a disc. (YEDS-18)
3. Press the **[▶▶▶]** key on the remote commander.
4. Check the oscilloscope waveform is as shown below.
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 : 100 mV (With the 10:1 probe in use)
 TIME/DIV : 500 ns



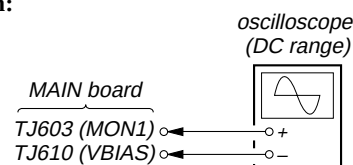
To watch the eye pattern, set the oscilloscope to AC range and increase the vertical sensitivity of the oscilloscope for easy watching.

5. Stop revolving of the disc motor by pressing the **[■]** button.

Connection and Checking Location: MAIN Board
 (See page 10)

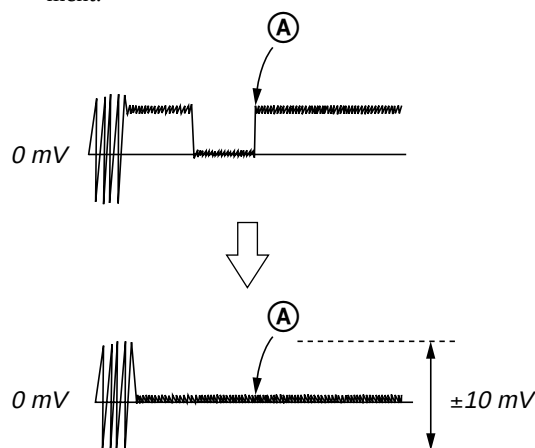
EF ALIGNMENT ADJUSTMENT (for microcomputer version 052 or 057 only)

Connection:



Procedure:

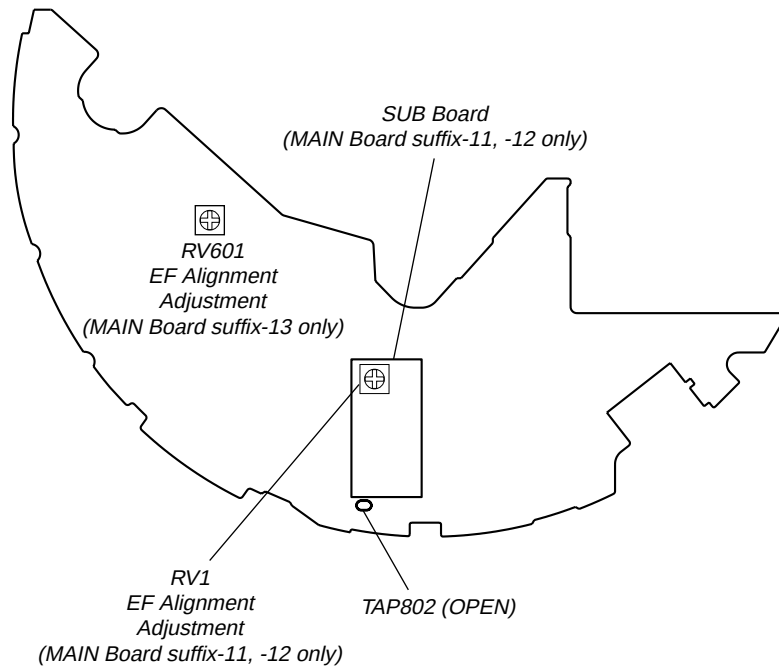
1. Short the solder bridge of TAP802 (OPEN) on the MAIN board.
2. Connect the TP514 (OPGSW) and TJ405 (AVDD) on the MAIN board using a lead wire.
3. Connect the TJ805 (AD SEL) and TJ401 (MAINGND) on the MAIN board using a lead wire.
4. Turn on the power (DC 4.5V).
5. Turn on the **[HOLD]** switch.
6. Press the **[▶▶▶]** key on the remote commander, and check that "0088" is displayed on the remote commander.
7. Press the **[◀◀◀]** key on the remote commander, and check that "0087" is displayed on the remote commander.
8. Remove a lead wire from the TJ805 (AD SEL) and TJ401 (MAIN GND) on the MAIN board. At this time, check that "00" is displayed on the remote commander.
9. Connect the oscilloscope to the TJ603 (MON1) and TJ610 (VBIAS) on the MAIN board.
10. Adjust the SUB board, RV1 (MAIN board suffix-11, -12) or MAIN board, RV601 (MAIN board suffix-13) so that the voltage at part (A) of the oscilloscope is $\pm 10\text{mV}$.
If "no disc" is displayed on the remote commander, press the **[▶▶▶]** key on the remote commander and make readjustment.



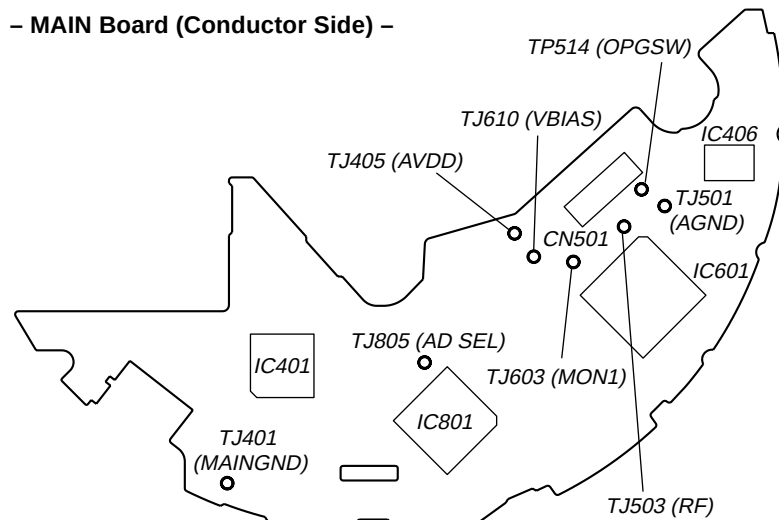
Connection and Adjustment Location: MAIN/SUB Boards
 (See page 10)

Connecting and Checking/Adjustment Location:

– MAIN (Conductor Side)/SUB Boards –



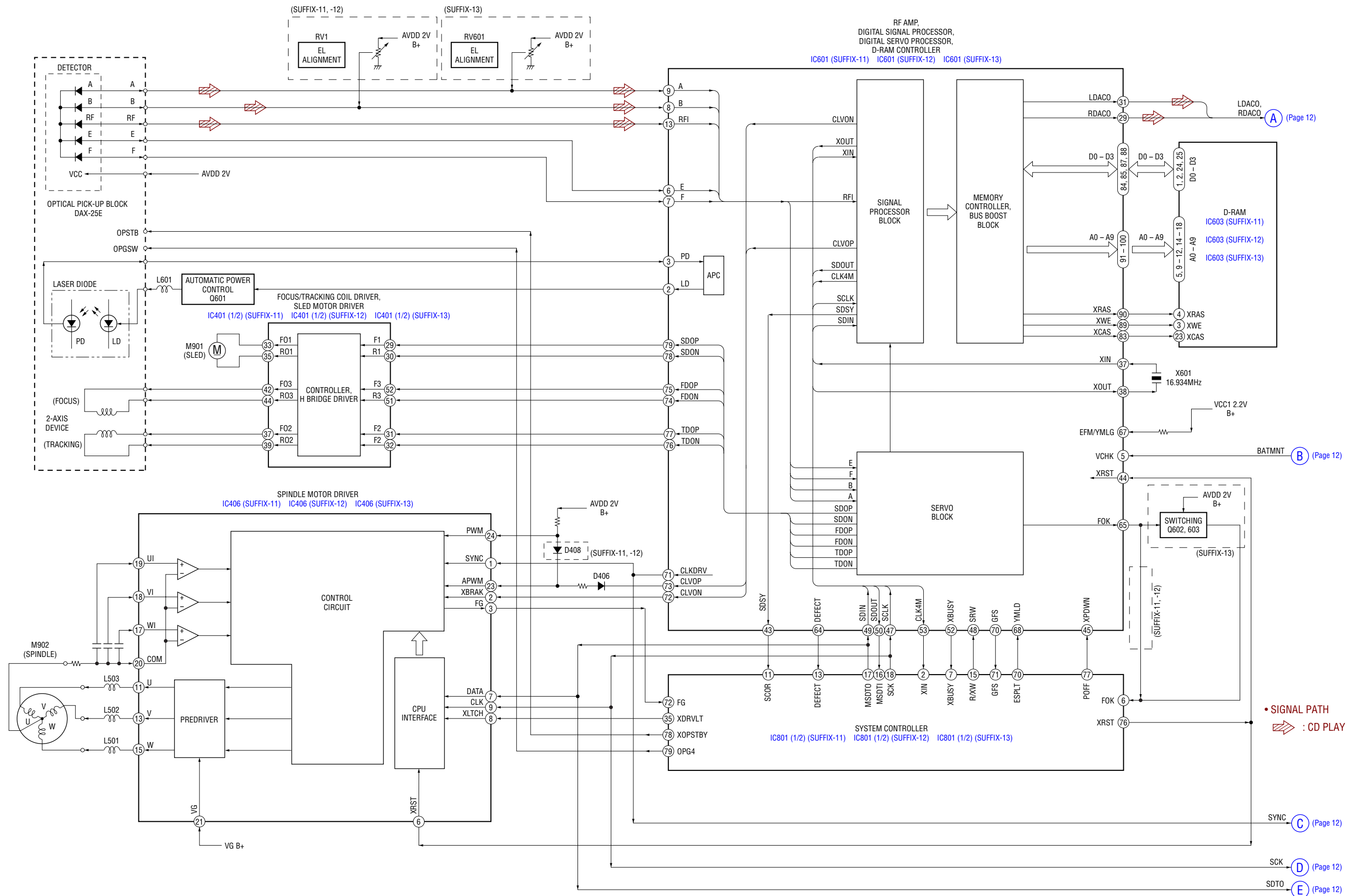
– MAIN Board (Conductor Side) –



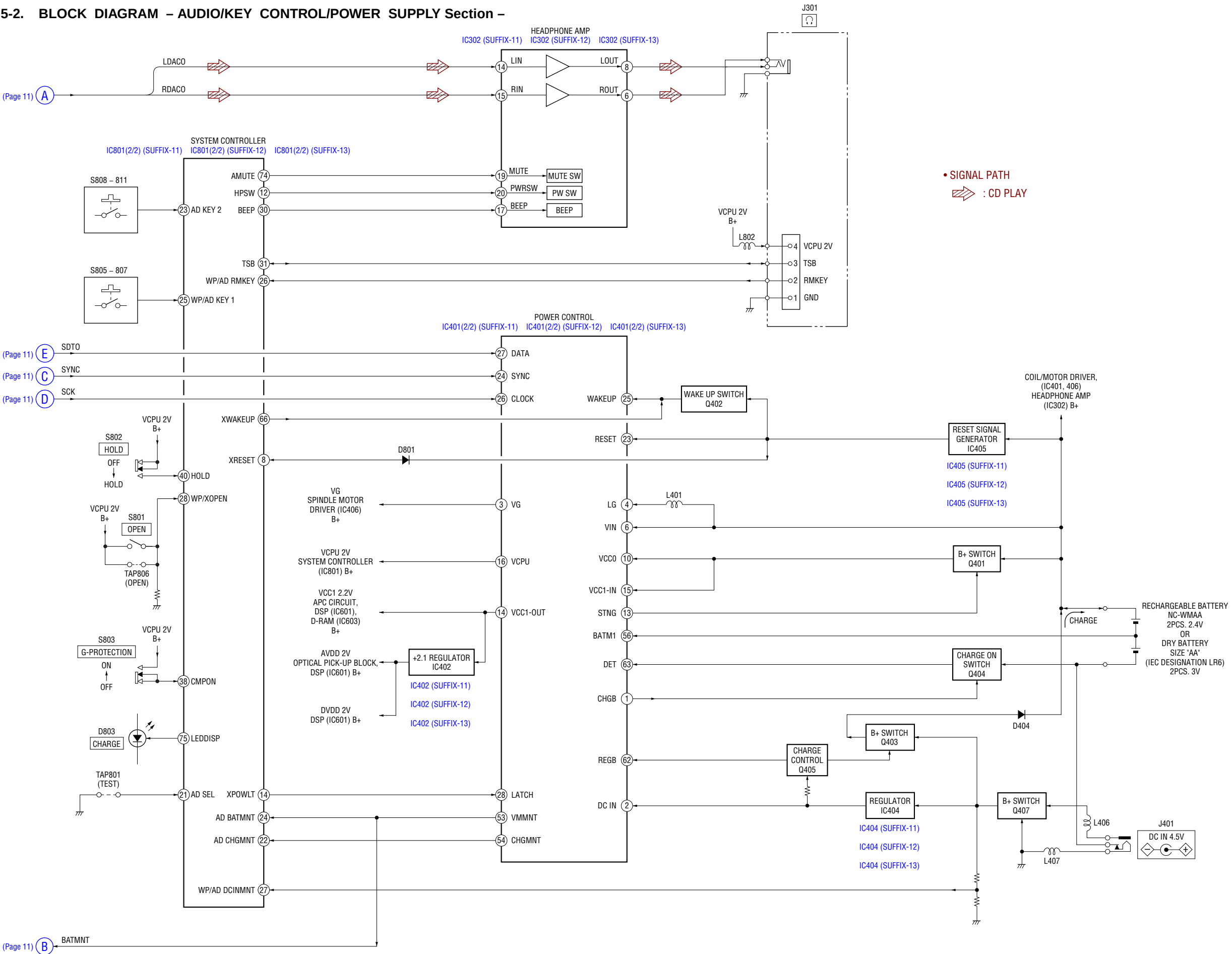
Remark: Only microcomputer version 052 or 057 MAIN board having SUB board for EF Alignment Adjustment.

SECTION 5 DIAGRAMS

5-1. BLOCK DIAGRAM – SERVO Section –



5-2. BLOCK DIAGRAM – AUDIO/KEY CONTROL/POWER SUPPLY Section –



5-3. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

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.

- Abbreviation
FR : French model

Note on Schematic Diagram:

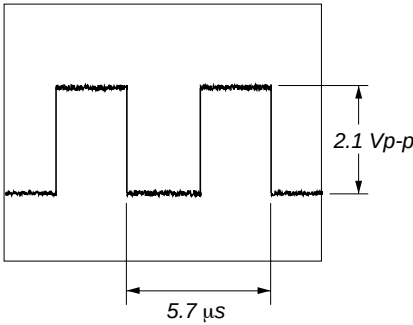
- All capacitors are in μF unless otherwise noted. pF : μF
- 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- % : indicates tolerance.
- □ : panel designation.

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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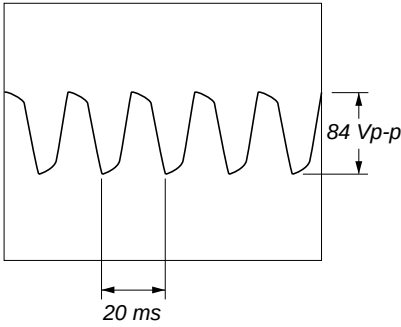
- — : B+ Line.
- Total current is measured with CD installed.
- Power voltage is dc 4.5 V and fed with regulated dc power supply from DC IN 4.5V jack (J401).
- Voltages and waveforms are dc with respect to ground in CD play mode.
no mark : CD PLAY
- Voltages are taken with a VOM (Input impedance 10 M 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.
⇒ : CD PLAY
- Abbreviation
FR : French model

• Waveforms

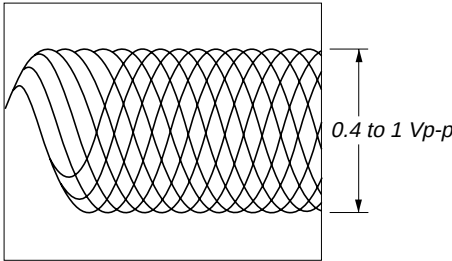
① IC406 ① (SYNC)



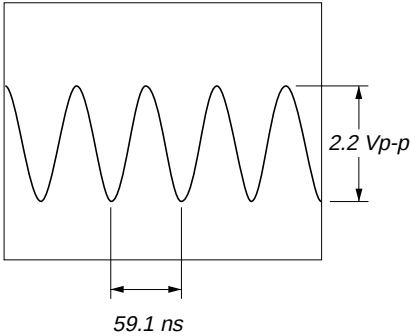
② IC406 ⑨ (CLK)



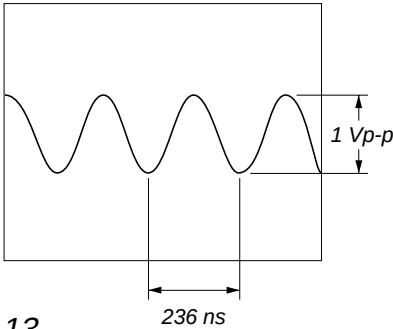
③ IC601 ⑬ (RFI)



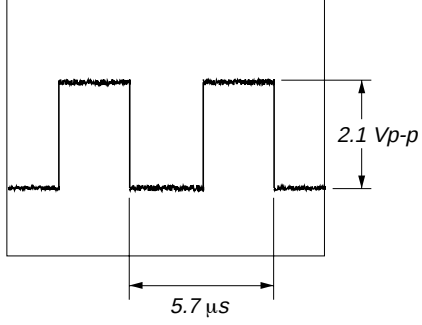
④ IC601 ⑳ (XOUT)



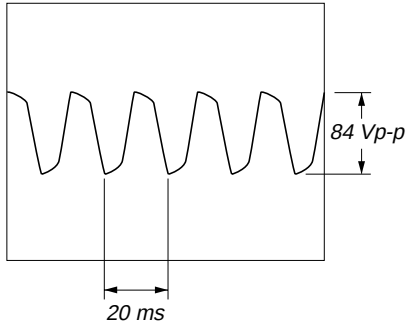
⑤ IC601 ㉓ (CLK4M)



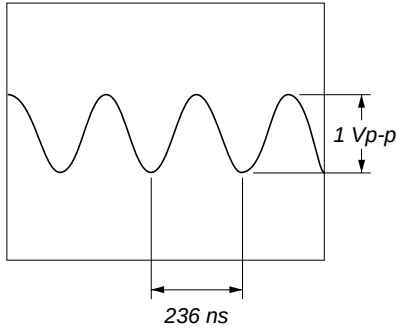
⑥ IC601 ㉗ (CLKDRV)



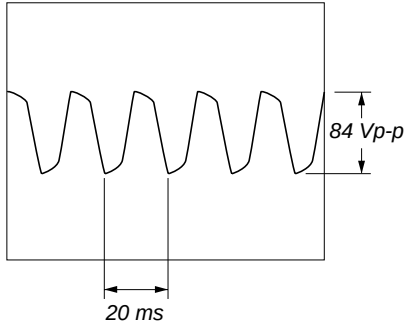
⑦ IC401 ㉞ (CLOCK)



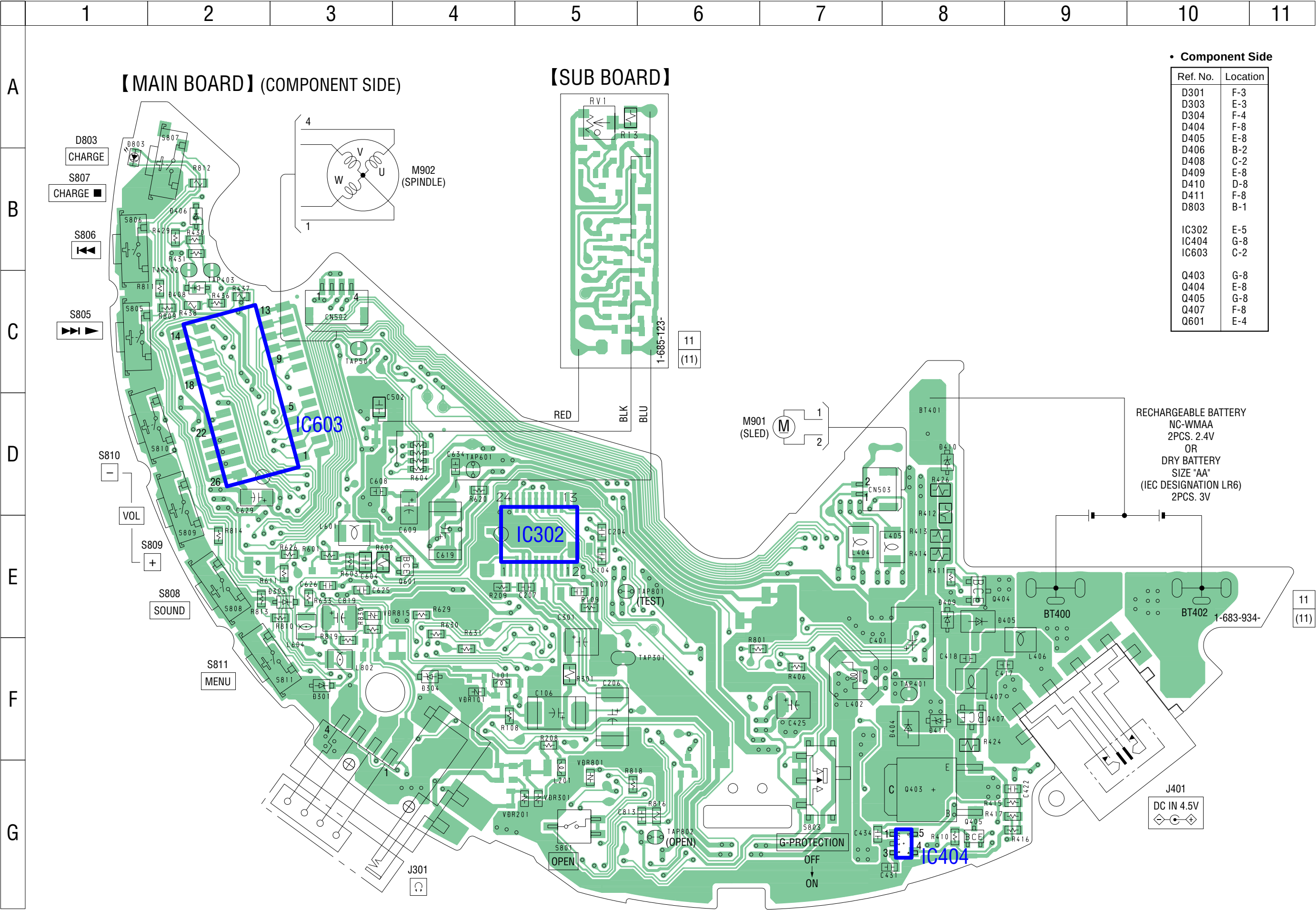
⑧ IC801 ② (XIN)



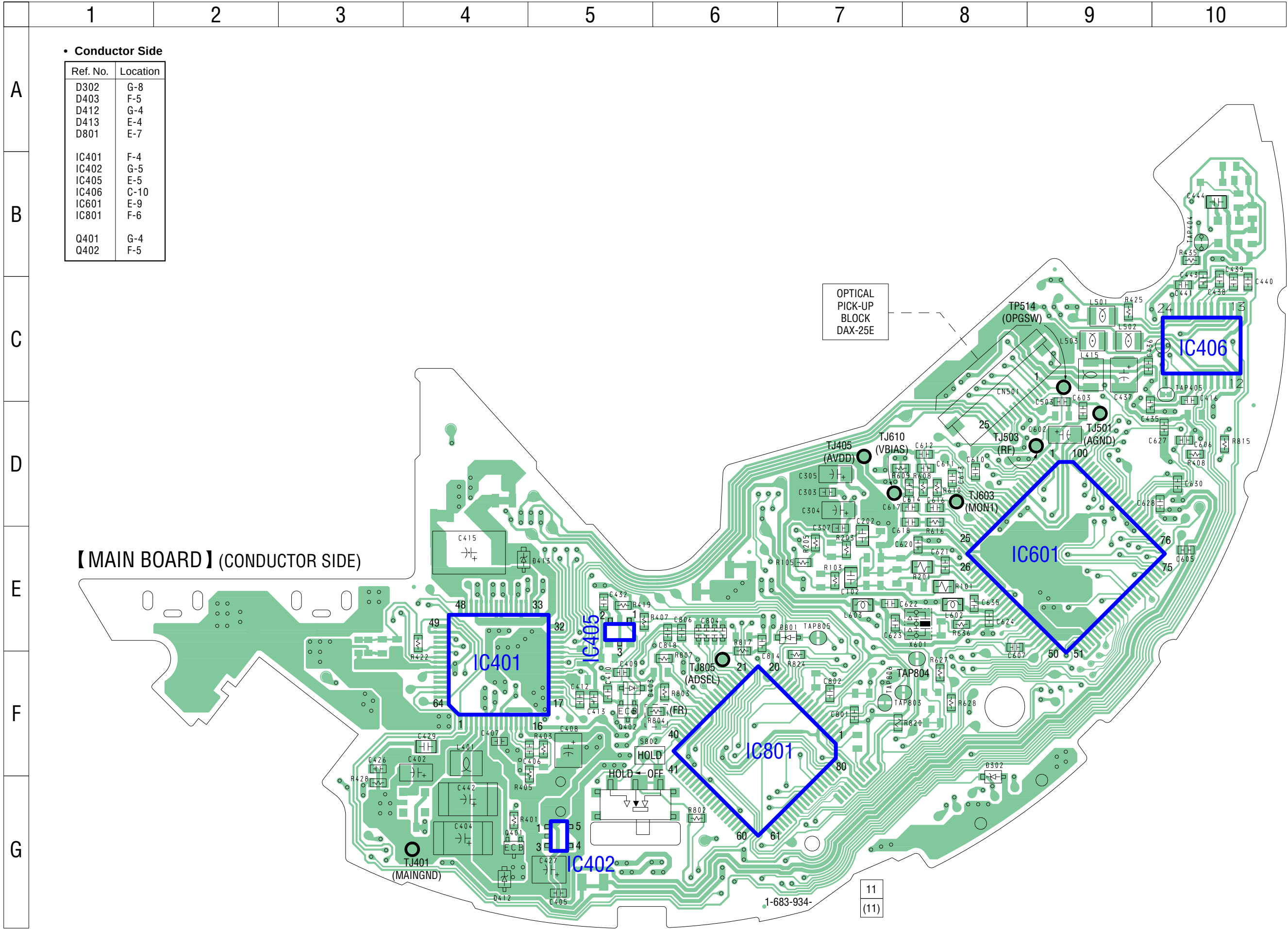
⑨ IC801 ㉞ (SCK)



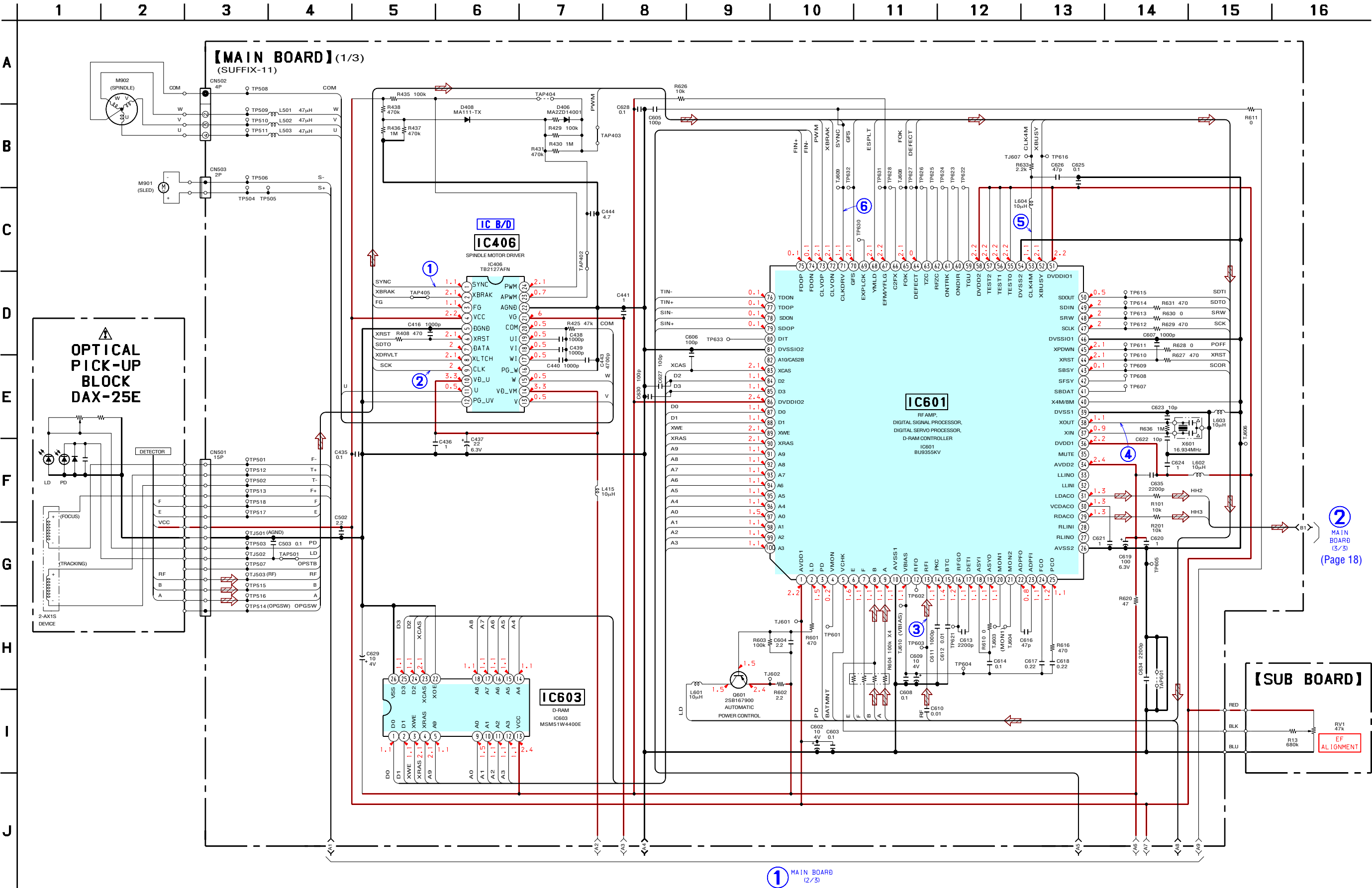
5-4. PRINTED WIRING BOARDS – MAIN (Component Side) (Suffix-11)/SUB Boards –



5-5. PRINTED WIRING BOARD – MAIN Board (Conductor Side) (Suffix-11) –



5-6. SCHEMATIC DIAGRAM – MAIN (1/3) (Suffix-11)/SUB Boards – • See page 13 for Waveforms. • See page 29 for IC Block Diagram.



1 MAIN BOARD (2/3) (Page 17)

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

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

MAIN BOARD (2/3)
(SUFFIX-11)

IC401
POWER CONTROL,
FOCUS/TRACKING COIL DRIVER,
SLED MOTOR DRIVER
IC401
BH6571KVT

IC402
XC6201P212MR
+2.1V REGULATOR

IC404
REGULATOR
IC404
MM1385AN

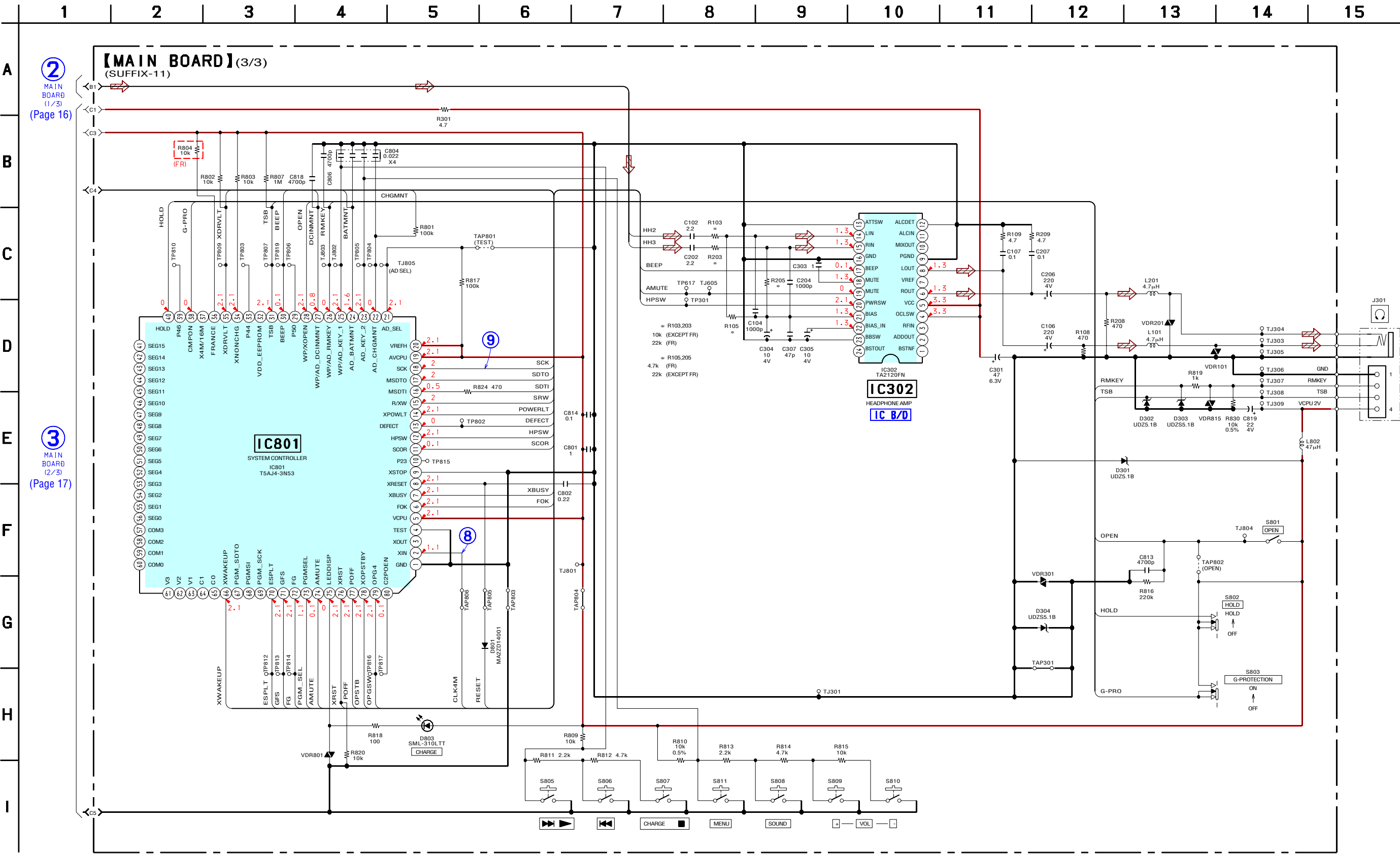
IC405
RESET SIGNAL
GENERATOR
IC405
XC61CN1402MR

RECHARGEABLE BATTERY
NC-WMAA
2PCS. 2.4V
OR
DRY BATTERY
SIZE"AA"
(IEC DESIGNATION LR6)
2PCS. 3V

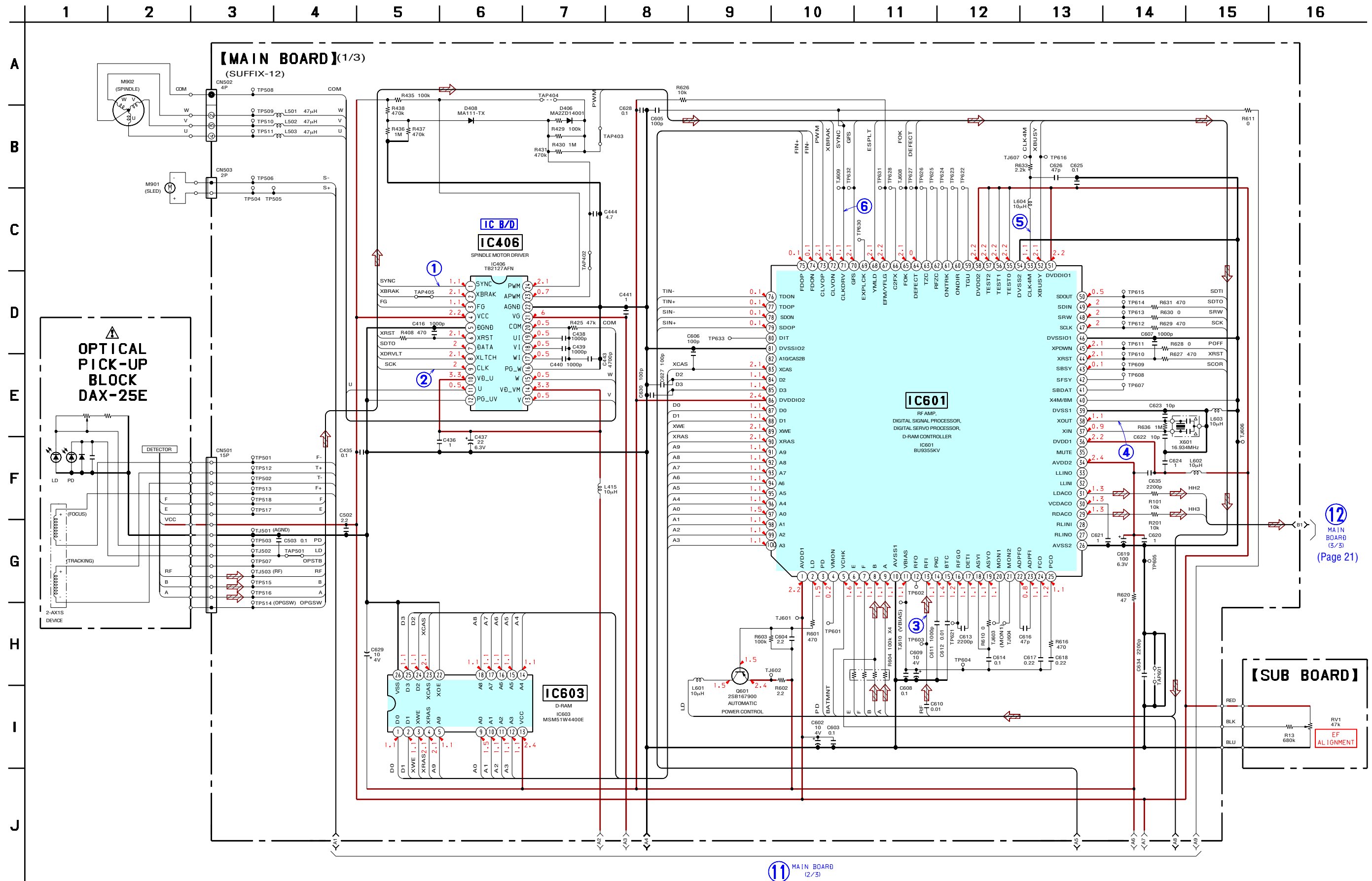
• TOTAL CURRENT
CD PLAY: 60mA
FF/FR: 75mA

MAIN BOARD (3/3)
(Page 18)

5-8. SCHEMATIC DIAGRAM – MAIN Board (3/3) (Suffix-11) – • See page 13 for Waveforms. • See page 29 for IC Block Diagram.



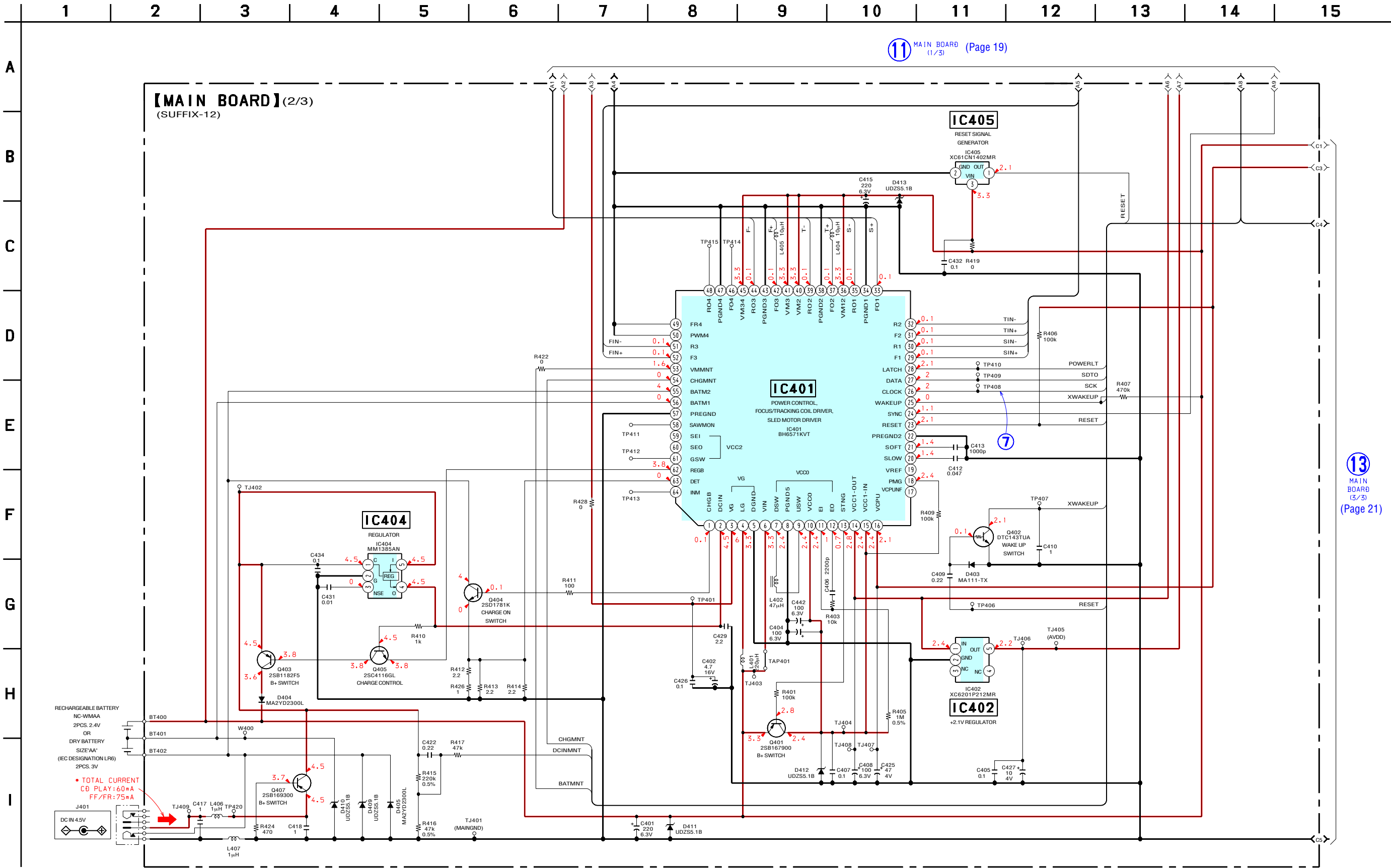
5-9. SCHEMATIC DIAGRAM – MAIN (1/3) (Suffix-12)/SUB Boards – • See page 13 for Waveforms. • See page 29 for IC Block Diagram.



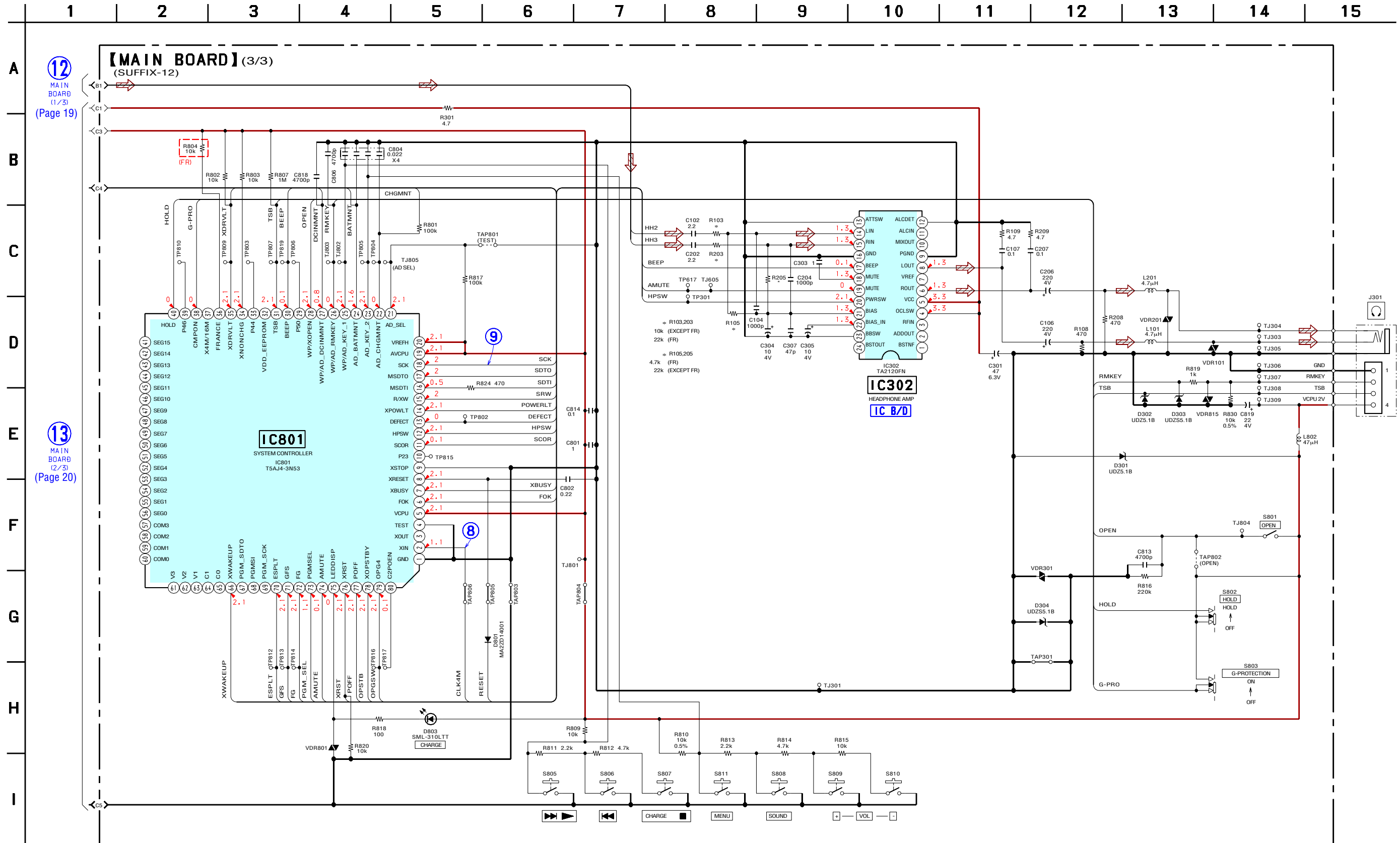
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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

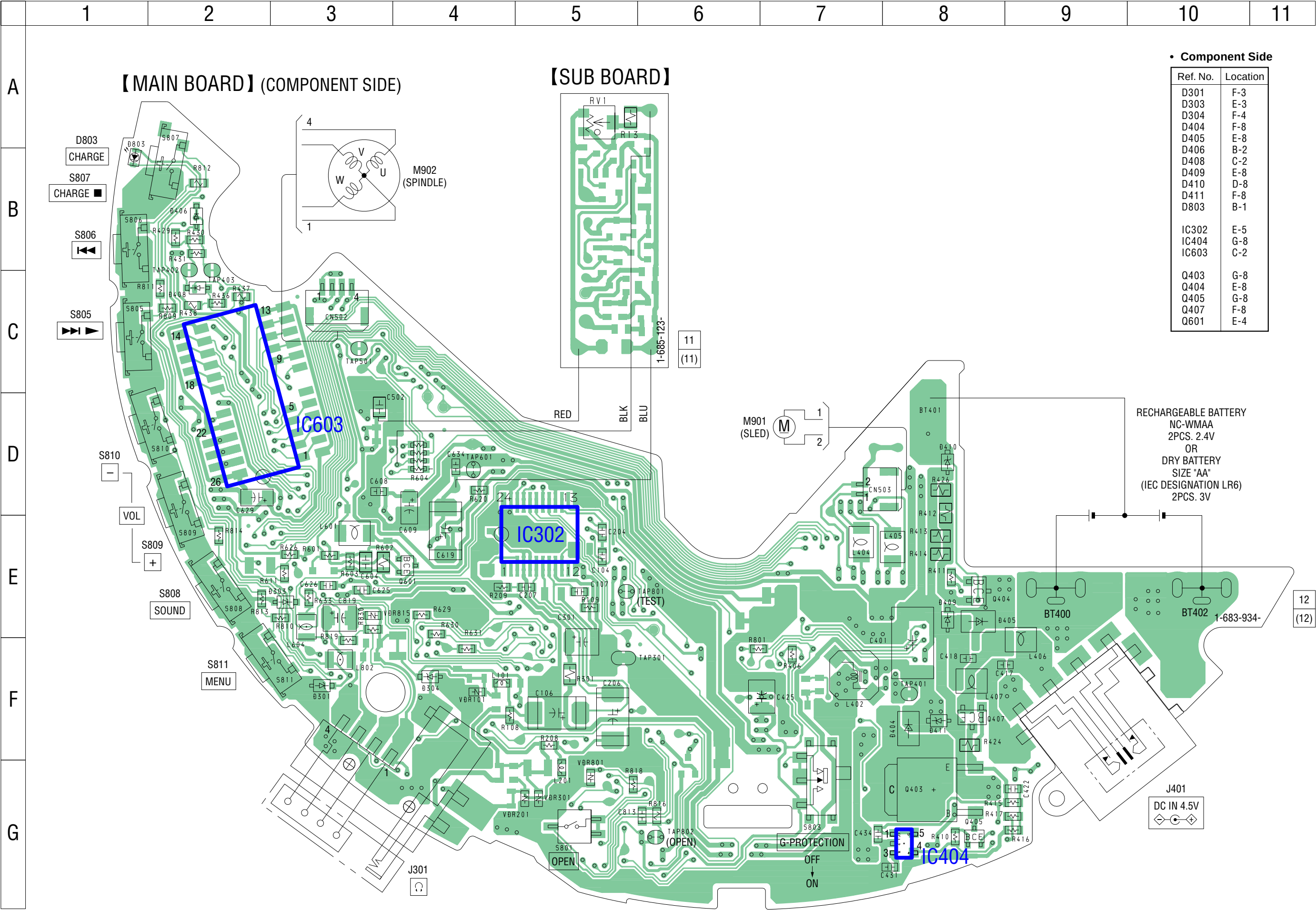
5-10. SCHEMATIC DIAGRAM – MAIN Board (2/3) (Suffix-12) – • See page 13 for Waveform.



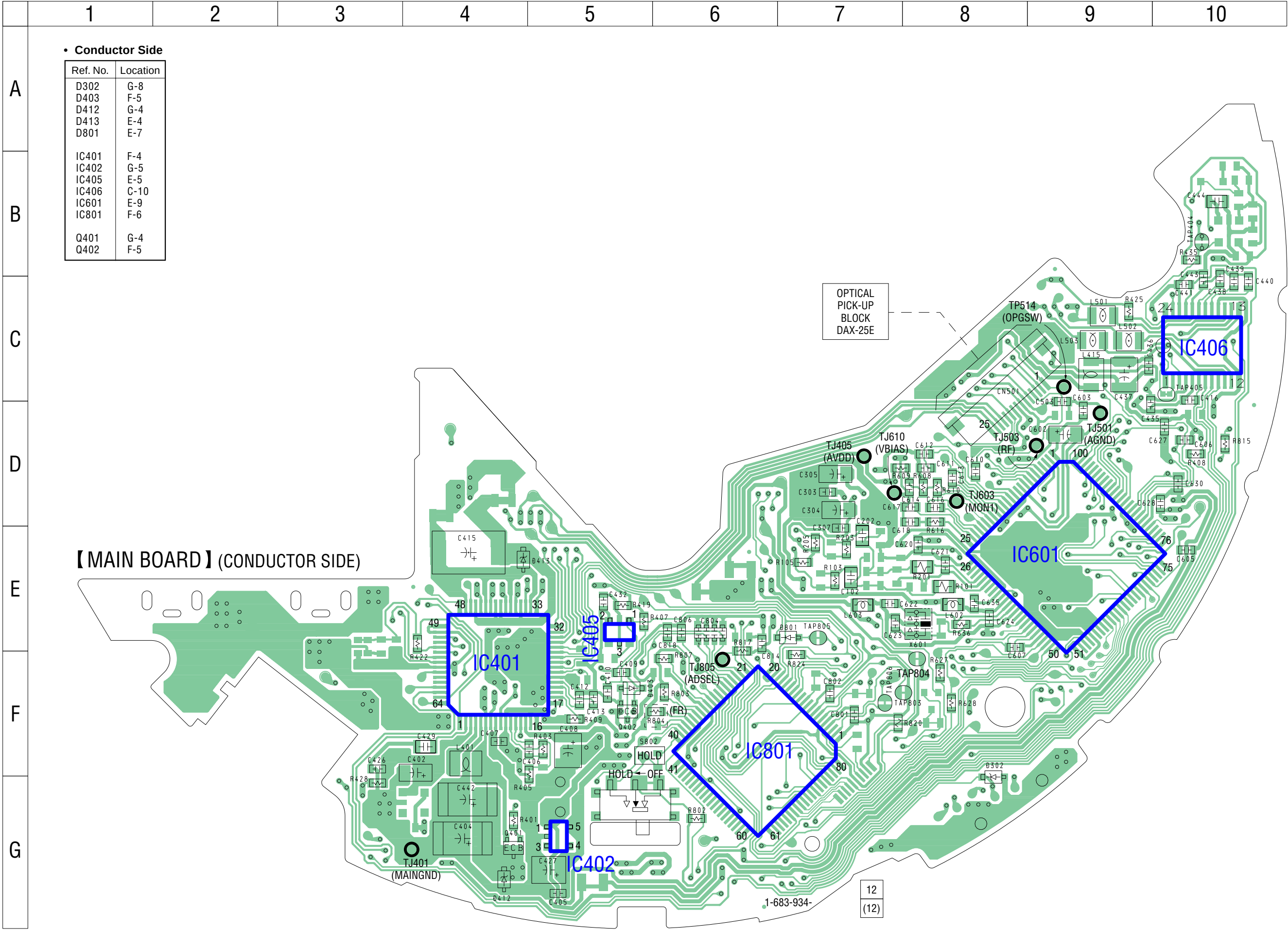
5-11. SCHEMATIC DIAGRAM – MAIN Board (3/3) (Suffix-12) – • See page 13 for Waveforms. • See page 29 for IC Block Diagram.



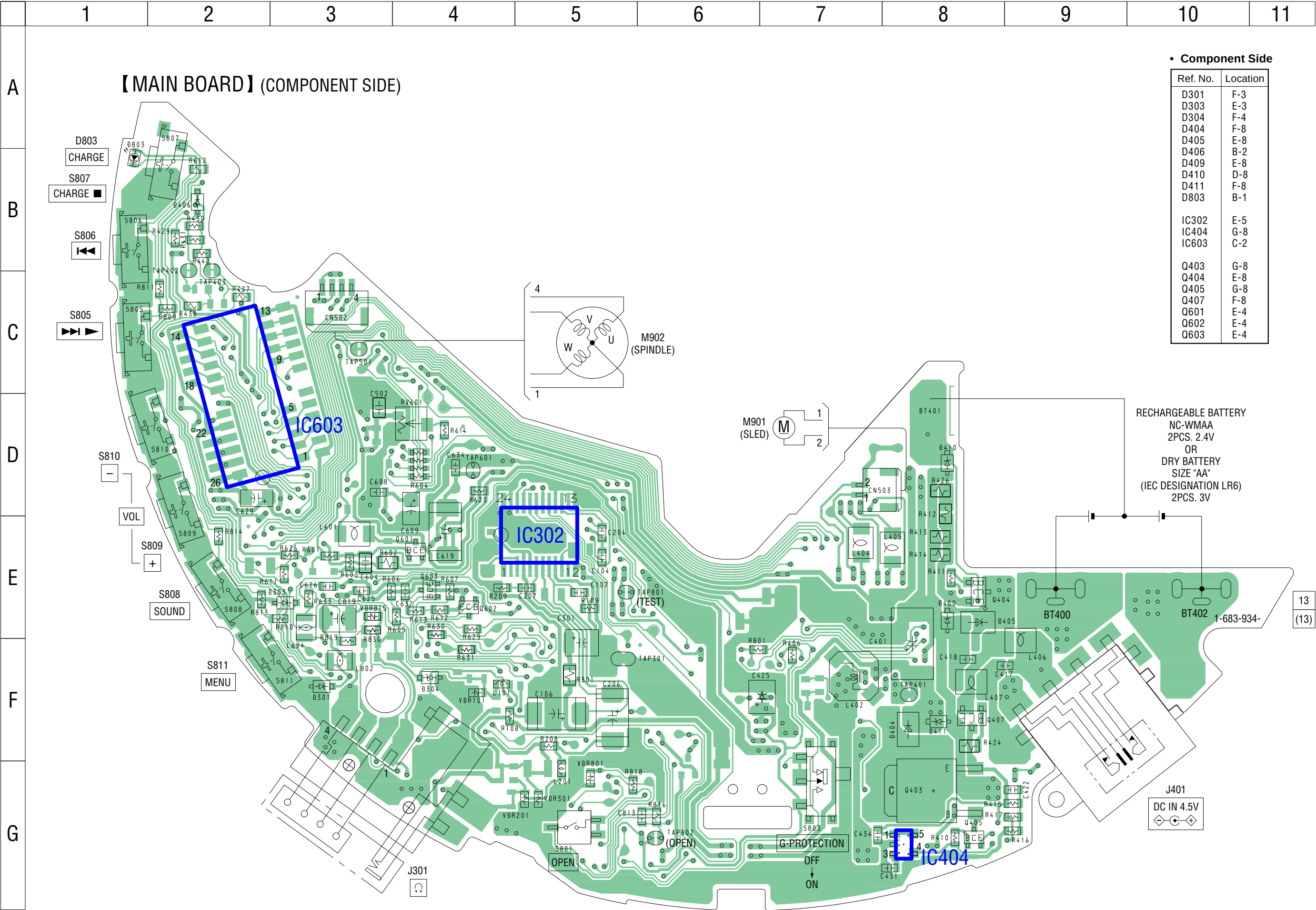
5-12. PRINTED WIRING BOARDS – MAIN (Component Side) (Suffix-12)/SUB Boards –



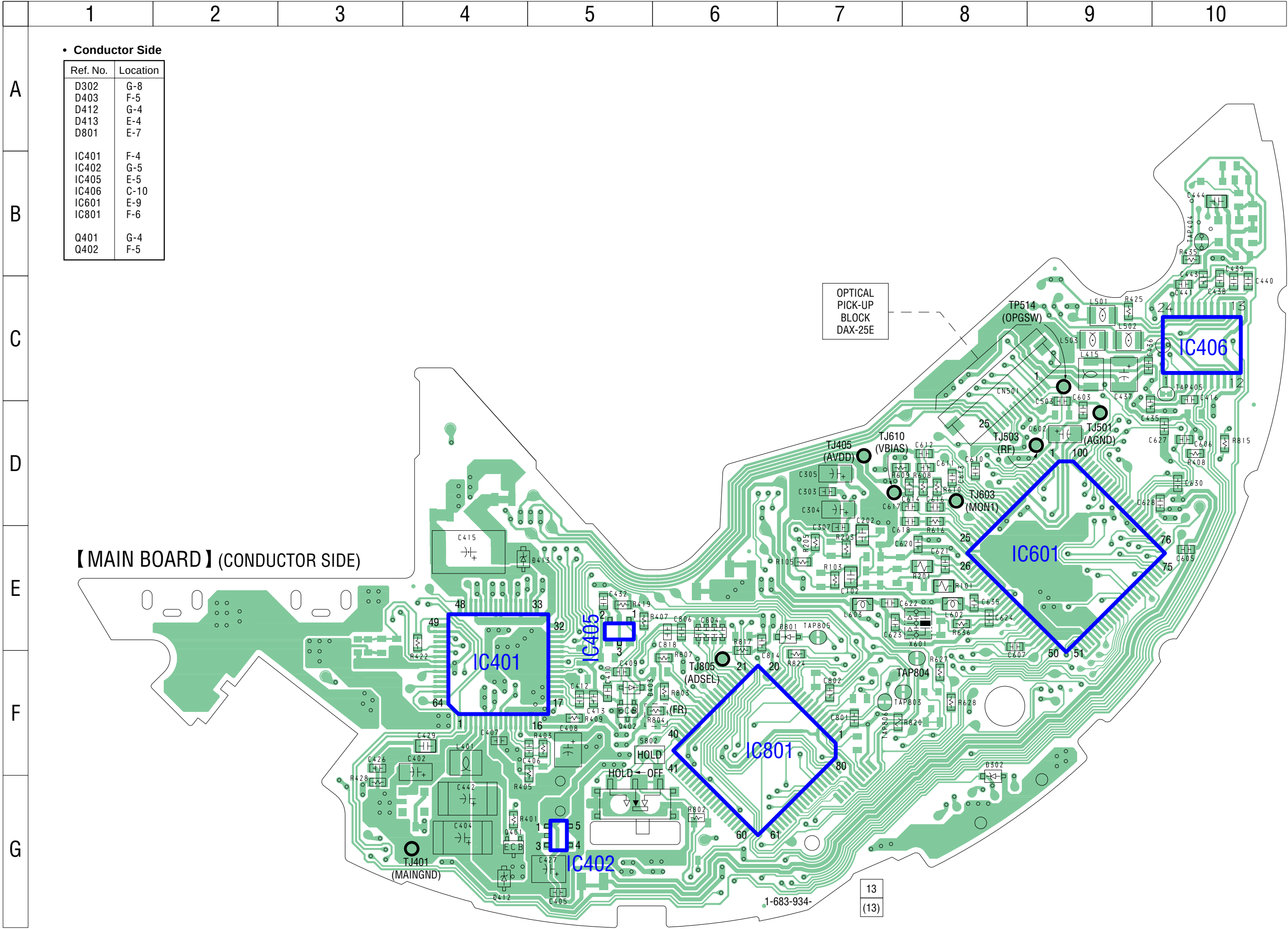
5-13. PRINTED WIRING BOARD – MAIN Board (Conductor Side) (Suffix-12) –



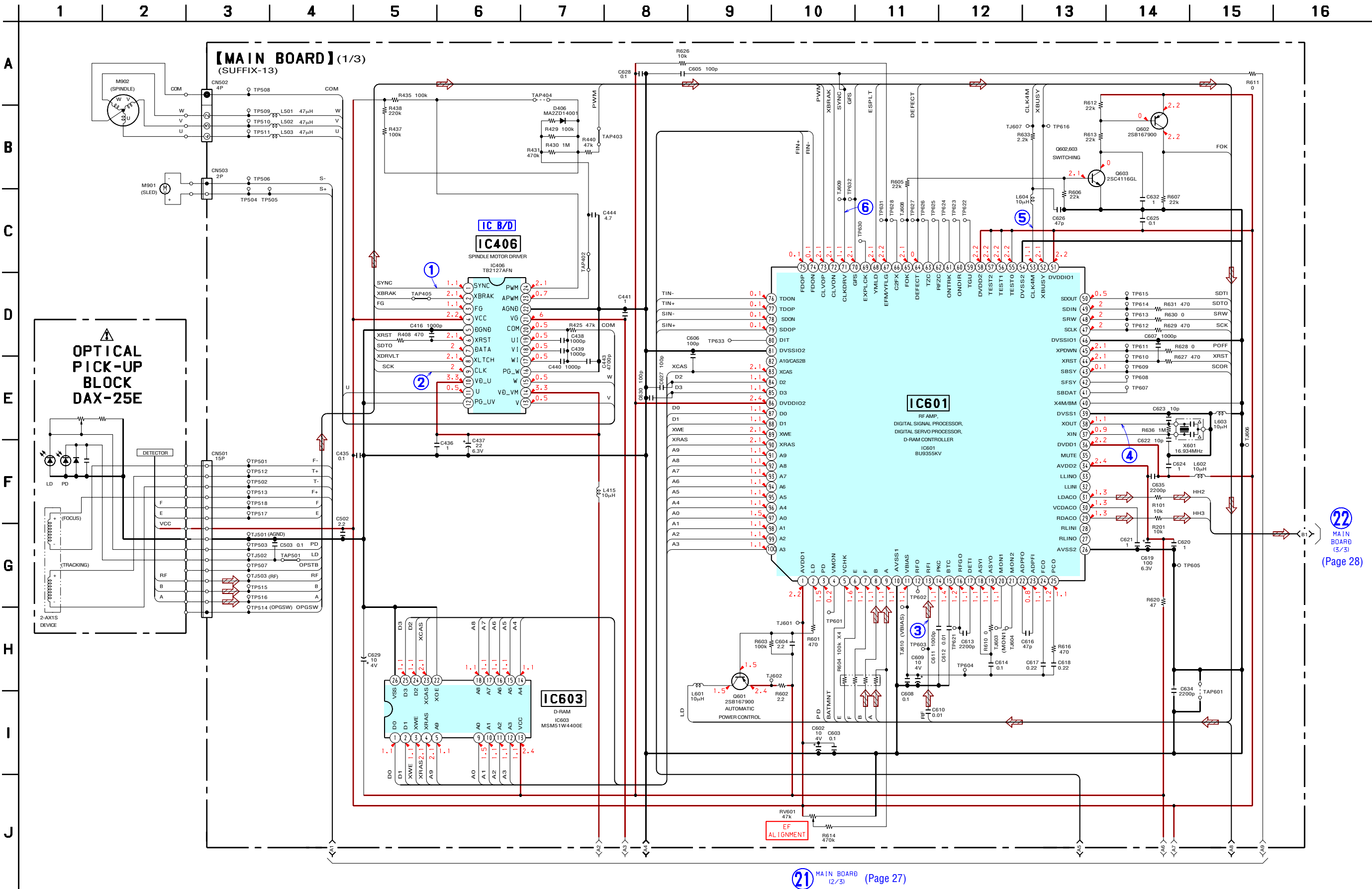
5-14. PRINTED WIRING BOARD – MAIN Board (Component Side) (Suffix-13) –



5-15. PRINTED WIRING BOARD – MAIN Board (Conductor Side) (Suffix-13) –



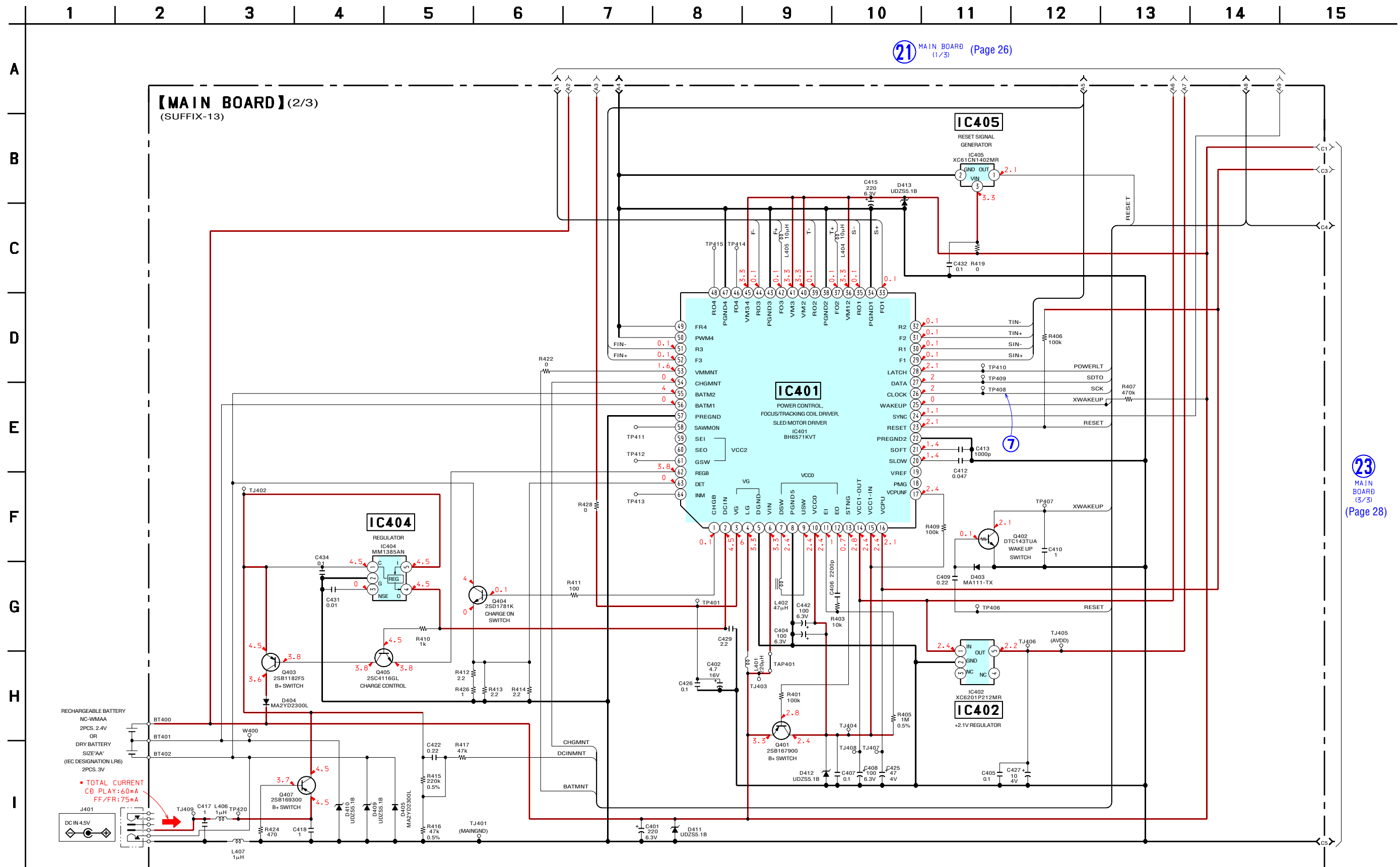
5-16. SCHEMATIC DIAGRAM – MAIN Board (1/3) (Suffix-13) – • See page 13 for Waveforms. • See page 29 for IC Block Diagram.



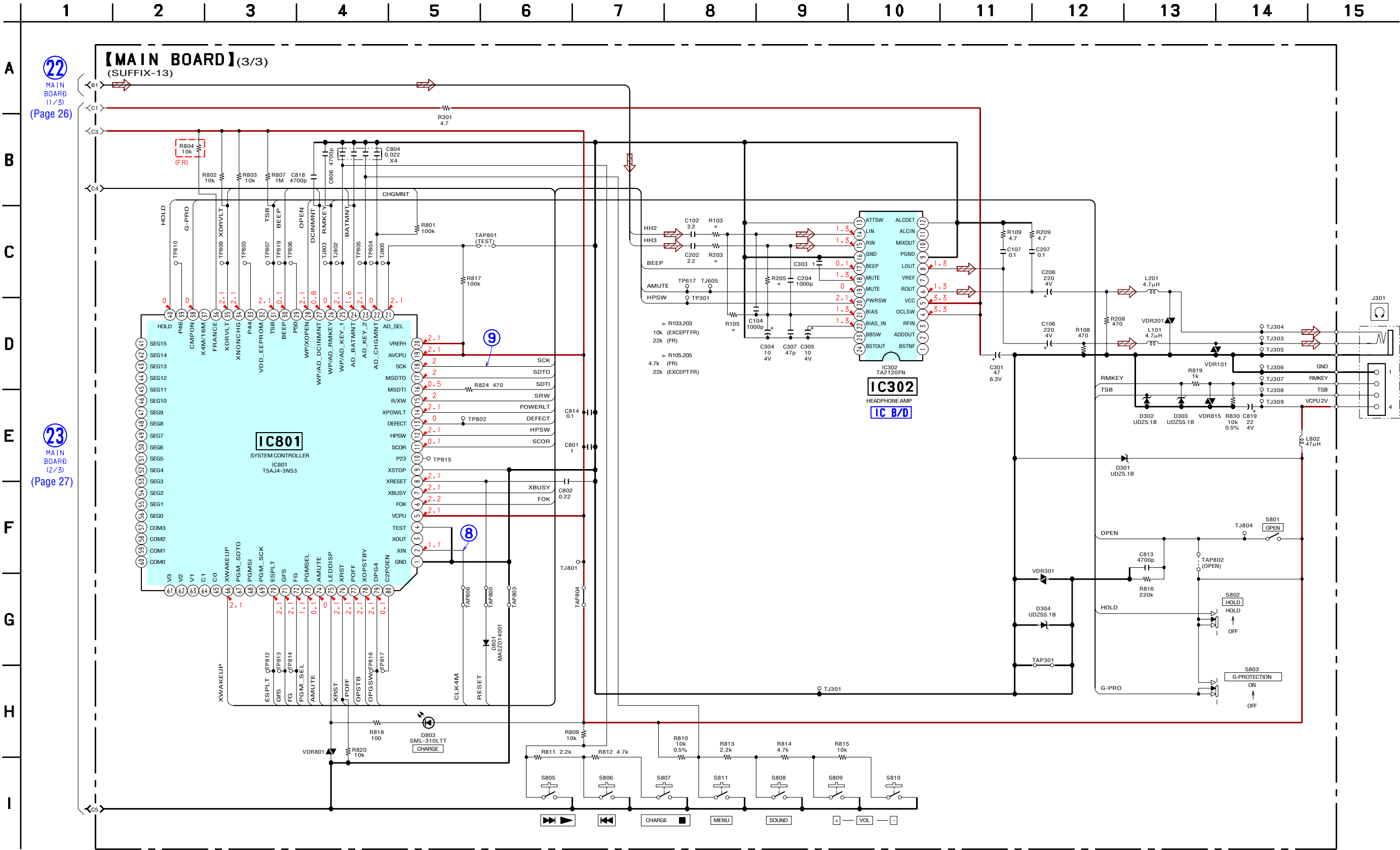
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

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

5-17. SCHEMATIC DIAGRAM – MAIN Board (2/3) (Suffix-13) – • See page 13 for Waveform.

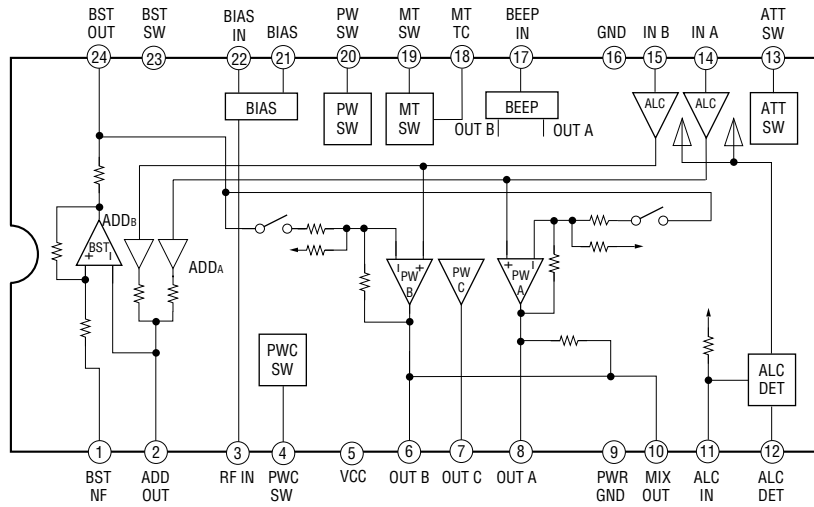


5-18. SCHEMATIC DIAGRAM – MAIN Board (3/3) (Suffix-13) – • See page 13 for Waveforms. • See page 29 for IC Block Diagram.

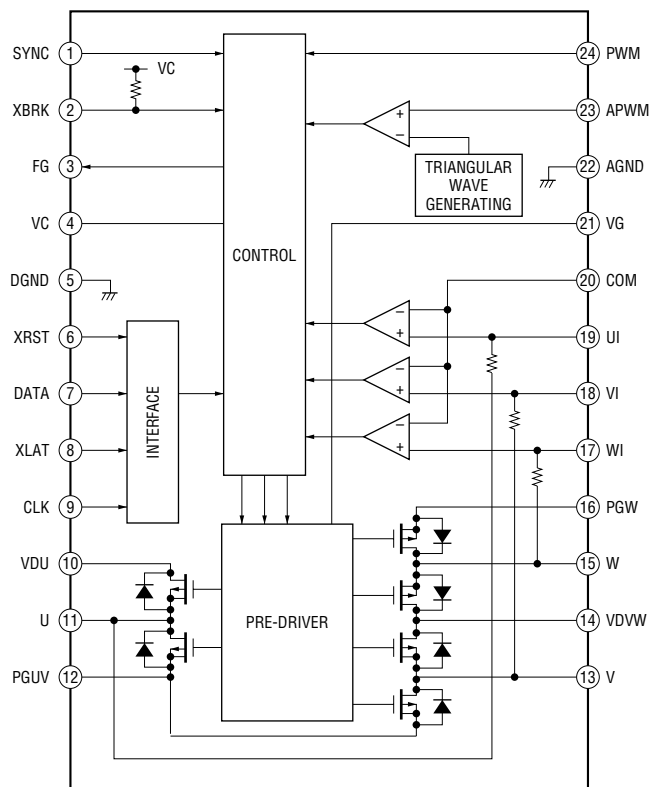


• IC Block Diagrams

IC302 TA2120FN (EL)



IC406 TB2127AFN (EL)



5-19. IC PIN FUNCTION DESCRIPTION

• IC801 T5AJ4-3N53 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	GND	—	Ground terminal
2	XIN	I	System clock input from the DSP
3	XOUT	O	High frequency oscillator output terminal Not used
4	TEST	I	Test terminal for IC Not used
5	VCPU	—	Power supply terminal (+2V)
6	FOK	I	Focus OK signal input from the DSP “L”: NG, “H”: OK
7	XBUSY	I	Auto sequencer status signal input from the DSP
8	XRESET	I	System reset signal input from the power control “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
9	XSTOP	I	Not used
10	P23	O	Serial data latch signal output terminal Not used
11	SCOR	I	Subcode sync (S0+S1) detection signal input from the DSP
12	HPSW	O	Drive signal output to the headphone amplifier “H”: on
13	DEFECT	I	Defect signal input from the DSP
14	XPOWLT	O	Serial data latch pulse signal output to the power control
15	R/XW	O	Serial data read/write signal output to the DSP
16	MSDTI	I	Serial data input from the DSP
17	MSDTO	O	Serial data output to the power control, spindle motor driver and DSP
18	SCK	O	Serial data transfer clock signal output to the power control, spindle motor driver and DSP
19	VCPU	—	Power supply terminal (+2V)
20	VREFH	I	Reference voltage (+2V) input terminal
21	AD SEL	I	Test terminal (A/D input) “L”: test
22	AD CHGMNT	I	Battery charge voltage detection signal input from the power control (A/D input)
23	AD KEY 2	I	Key input terminal (A/D input)
24	AD BATMNT	I	Battery voltage detection signal input from the power control (A/D input)
25	WP/AD KEY 1	I	Key input terminal (A/D input)
26	WP/AD RMKEY	I	Key input from the headphone with remote commander (A/D input)
27	WP/AD DCINMNT	I	DC input voltage detection signal input (A/D input)
28	WP/XOPEN	I	CD lid open/close detection switch input terminal “L”: CD lid open The stop status is reset with the falling edge of input signal
29	P50	O	Not used
30	BEEP	O	Beep sound output to the headphone amplifier
31	TSB	I/O	Communication two-way data bus with the headphone with remote commander
32	VDD EEPROM	—	Power supply terminal Not used
33	P44	O	Not used
34	XNONCHG	I	Charging feature detection signal input terminal Not used
35	XDRVLT	O	Serial data latch pulse signal output to the spindle motor driver
36	FRANCE	I	Destination setting terminal for French model only (fixed at “H”)
37	X4M/16M	I	D-RAM size setting terminal “L”: 4M bits, “H”: 16M bits Not used
38	CMPON	I	G-PROTECTION switch input terminal “H”: on
39	P46	O	Not used
40	HOLD	I	HOLD switch input terminal “H”: hold on
41 to 56	SEG15 to SEG0	O	Segment drive signal output terminal for the liquid crystal display Not used
57 to 60	COM3 to COM0	O	Common drive signal output terminal for the liquid crystal display Not used
61 to 63	V3 to V1	O	Liquid crystal display drive bias control signal output terminal Not used

Pin No.	Pin Name	I/O	Description
64, 65	C1, C0	—	Terminal for doubler circuit capacitor connection to develop liquid crystal display drive voltage Not used
66	XWAKEUP	O	Wakeup control signal output to the power control (for system standby reset) “L”: wakeup The stop status is reset with the falling edge of input signal
67	PGM SDTO	O	Not used
68	PGMSI	I	Not used
69	PGM SCK	O	Not used
70	ESPLT	O	ESP serial data latch pulse signal output to the DSP
71	GFS	I	Guard frame synchronous signal input from the DSP
72	FG	I	FG pulse signal input from the spindle motor driver
73	PGMSEL	O	Not used
74	AMUTE	O	Analog muting on/off control signal output to the headphone amplifier “H”: muting on
75	LEDDISP	O	Charge LED drive signal output “L”: LED on
76	XRST	O	Reset signal output to the spindle motor driver and DSP “L”: reset
77	POFF	O	Power off mode control signal output to the DSP “L”: power off mode
78	XOPSTBY	O	Power on/off control signal output to the optical pick-up “H”: power on
79	OPG4	O	CD-RW gain control signal output to the optical pick-up “H”: gain up
80	C2POEN	O	Not used

SECTION 6

EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)

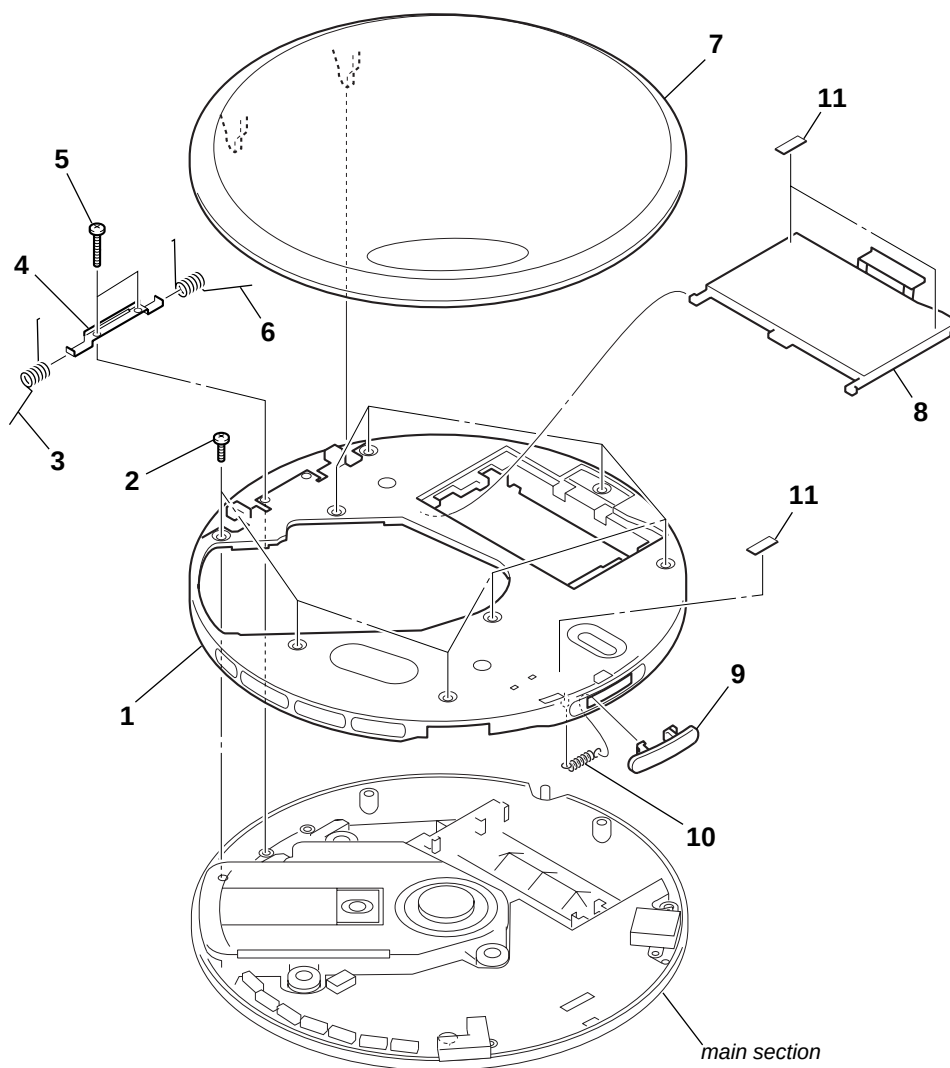
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.
- Refer to “SERVICING NOTES” (page 3) for identification of MAIN board.

- Abbreviation
FR : French model
JE : Tourist model

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

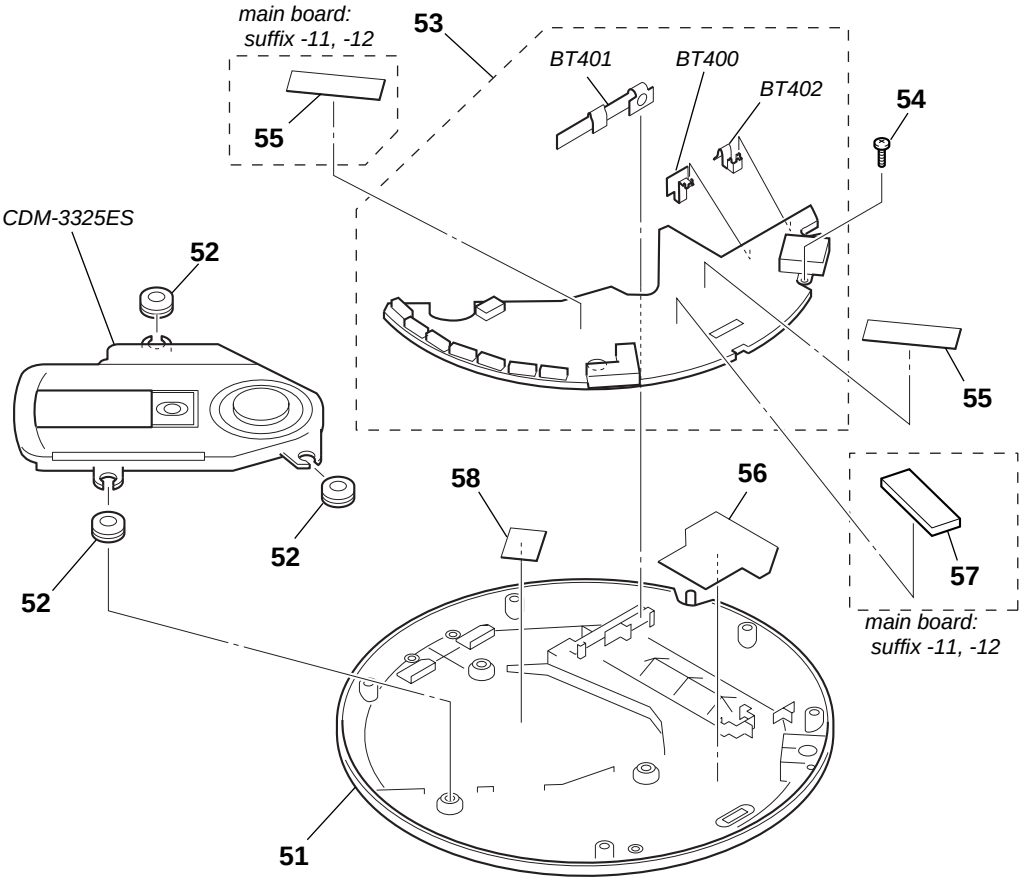
Les composants identifiés par une
marque  sont critiques pour la
sécurité
Ne les remplacer que par une pièce
portant le numéro spécifié

6-1. CABINET SECTION



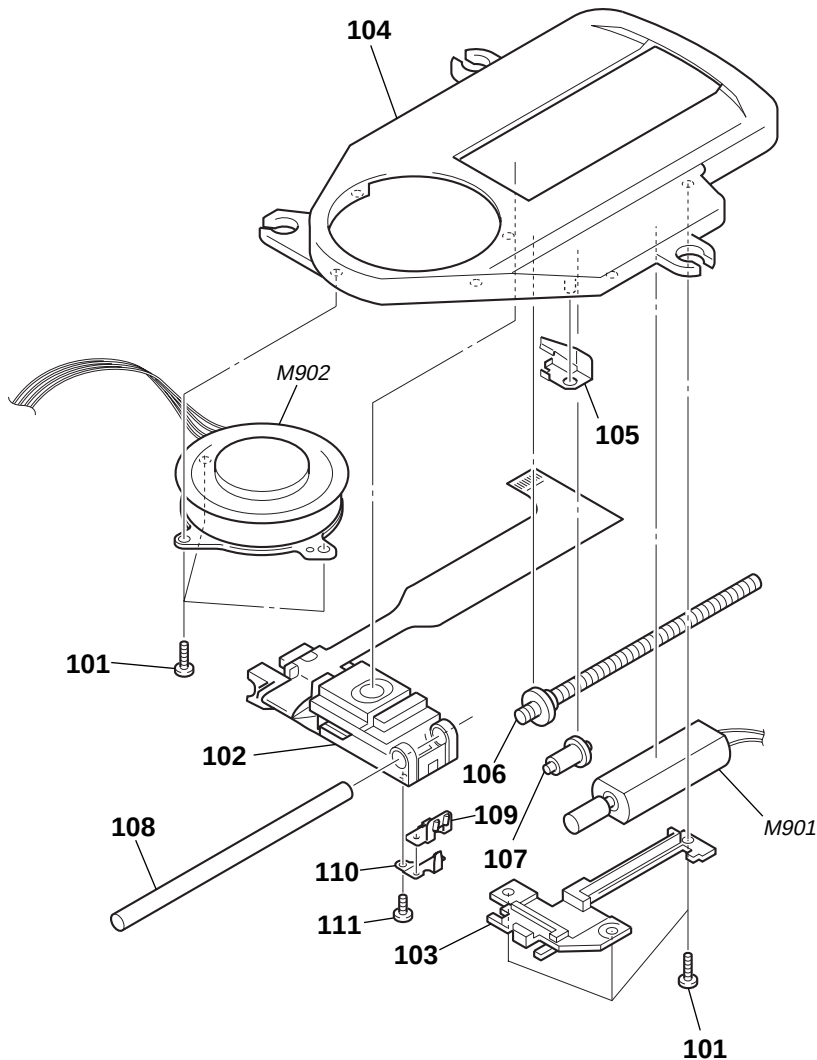
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1	X-3381-717-1	CABINET (UPPER) SUB ASSY		7	X-3382-098-1	LID UPPER SUB ASSY (for SILVER)	
2	4-908-792-71	SCREW (B2)		7	X-3382-099-1	LID UPPER SUB ASSY (for BLUE)	
3	3-239-268-01	SPRING (FULL OPEN. B)		7	X-3382-100-1	LID UPPER SUB ASSY (for PINK)	
4	3-239-266-01	PLATE (SPRING)		8	3-239-259-01	LID, BATTERY CASE	
5	3-240-296-01	SCREW, TAPPING		9	3-239-262-01	KNOB (OPEN)	
6	3-239-267-01	SPRING (FULL OPEN. A)		10	3-233-998-01	SPRING, TENSION	
				11	3-223-073-21	SPACER (A)	

6-2. MAIN SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3381-716-1	CABINET (LOWER) SUB ASSY		56	3-242-154-01	LEAF, COPPER	
52	3-234-106-01	INSULATOR		57	1-685-123-11	SUB BOARD	
* 53	A-3021-812-A	MAIN BOARD, COMPLETE (EXCEPT FR, JE)		58	3-047-194-01	SHEET (CDM), ADHESIVE	
* 53	A-3021-760-A	MAIN BOARD, COMPLETE (FR)		BT400	3-239-264-01	TERMINAL (+), BATTERY	
* 53	A-3021-759-A	MAIN BOARD, COMPLETE (JE)		BT401	3-239-263-01	TERMINAL BOARD (RELAY), BATTERY	
54	3-318-201-01	SCREW (B) (1.4X3), TAPPING		BT402	3-239-265-01	TERMINAL (-), BATTERY	
55	3-577-414-01	SPACER					

6-3. OPTICAL PICK-UP SECTION
(CDM-3325ES)



The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-318-203-62	SCREW (B1.7X4), TAPPING		108	3-221-475-01	SHAFT, STANDARD	
△ 102	X-3380-950-1	OPTICAL PICK-UP (DAX-25E)		109	3-222-298-01	RACK	
103	3-221-473-01	COVER, GEAR		110	3-222-299-01	SPRING, RACK RETAINER	
104	3-221-472-02	CHASSIS		111	3-348-998-81	SCREW (M1.4)	
105	3-221-474-01	SPRING, SLED		M901	A-3052-733-A	MOTOR ASSY, SLED	
106	A-3052-734-A	FEED ASSY, SCREW		M902	A-3052-735-A	MOTOR ASSY, TURN TABLE (SPINDLE)	
107	3-221-268-01	GEAR (B)					

SECTION 7

ELECTRICAL PARTS LIST

MAIN (SUFFIX-11)

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Refer to "SERVICING NOTES" (page 3) for identification of MAIN board.
- Abbreviation

AUS : Australian model

CH : Chinese model

CND : Canadian model

E13 : 220 – 230 V AC area in E model

E33 : 100 – 240 V AC area in E model

EE : East European model

FR : French model

HK : Hong Kong model

JE : Tourist model

KR : Korean model

TW : Taiwan model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-3021-759-A	MAIN BOARD, COMPLETE (SUFFIX-11) (JE)		C429	1-164-505-11	CERAMIC CHIP 2.2uF	16V
*	A-3021-760-A	MAIN BOARD, COMPLETE (SUFFIX-11) (FR)		C431	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
*	A-3021-812-A	MAIN BOARD, COMPLETE (SUFFIX-11)		C432	1-164-156-11	CERAMIC CHIP 0.1uF	25V
		(EXCEPT FR, JE)					
		*****		C434	1-164-156-11	CERAMIC CHIP 0.1uF	25V
		< BATTERY TERMINAL >		C435	1-164-156-11	CERAMIC CHIP 0.1uF	25V
BT400	3-239-264-01	TERMINAL (+), BATTERY		C436	1-115-156-11	CERAMIC CHIP 1uF	10V
BT401	3-239-263-01	TERMINAL BOARD (RELAY), BATTERY		C437	1-104-852-11	TANTALUM CHIP 22uF	20% 6.3V
BT402	3-239-265-01	TERMINAL (-), BATTERY		C438	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
		< CAPACITOR >		C439	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C102	1-164-505-11	CERAMIC CHIP 2.2uF	16V	C440	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C104	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C441	1-115-156-11	CERAMIC CHIP 1uF	10V
C106	1-125-899-11	TANTALUM CHIP 220uF	20% 4V	C442	1-111-253-11	TANTALUM CHIP 100uF	20% 6.3V
C107	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C443	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V
C202	1-164-505-11	CERAMIC CHIP 2.2uF	16V	C444	1-117-720-11	CERAMIC CHIP 4.7uF	10V
C204	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C502	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C206	1-125-899-11	TANTALUM CHIP 220uF	20% 4V	C503	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C207	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C602	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C301	1-110-569-11	TANTALUM CHIP 47uF	20% 6.3V	C603	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C303	1-115-156-11	CERAMIC CHIP 1uF	10V	C604	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C304	1-135-201-11	TANTALUM CHIP 10uF	20% 4V	C605	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C305	1-135-201-11	TANTALUM CHIP 10uF	20% 4V	C606	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C307	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C607	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C401	1-117-887-11	TANTALUM CHIP 220uF	20% 6.3V	C608	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C402	1-107-686-11	TANTALUM CHIP 4.7uF	20% 16V	C609	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C404	1-111-253-11	TANTALUM CHIP 100uF	20% 6.3V	C610	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C405	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C611	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C406	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V	C612	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C407	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C613	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C408	1-128-964-11	TANTALUM CHIP 100uF	20% 6.3V	C614	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C409	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V	C616	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C410	1-115-156-11	CERAMIC CHIP 1uF	10V	C617	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V
C412	1-165-176-11	CERAMIC CHIP 0.047uF	10% 16V	C618	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V
C413	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C619	1-111-253-11	TANTALUM CHIP 100uF	20% 6.3V
C415	1-117-887-11	TANTALUM CHIP 220uF	20% 6.3V	C620	1-115-156-11	CERAMIC CHIP 1uF	10V
C416	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C621	1-115-156-11	CERAMIC CHIP 1uF	10V
C417	1-115-156-11	CERAMIC CHIP 1uF	10V	C622	1-162-915-11	CERAMIC CHIP 10PF	0.5PF 50V
C418	1-115-156-11	CERAMIC CHIP 1uF	10V	C623	1-162-915-11	CERAMIC CHIP 10PF	0.5PF 50V
C422	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V	C624	1-115-156-11	CERAMIC CHIP 1uF	10V
C425	1-104-908-11	TANTALUM CHIP 47uF	20% 4V	C625	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C426	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C626	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C427	1-135-201-11	TANTALUM CHIP 10uF	20% 4V	C627	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
				C628	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C629	1-135-201-11	TANTALUM CHIP 10uF	20% 4V

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

In each case, u: μ , for example:uA. . : μ A. . uPA. . : μ PA. .uPB. . : μ PB. . uPC. . : μ PC. .uPD. . : μ PD. .

CAPACITORS

uF: μ F

COILS

uH: μ H

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

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

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

MAIN (SUFFIX-11)

Ref. No.	Part No.	Description	Remark
C630	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C634	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C635	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C801	1-115-156-11	CERAMIC CHIP 1uF	10V
C802	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V
C804	1-127-576-21	CAP, CHIP CERAMIC	22000PF B
C806	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C813	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C814	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C818	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C819	1-104-847-11	TANTALUM CHIP 22uF 20%	4V
< CONNECTOR >			
* CN501	1-815-832-21	CONNECTOR, FFC/FPC (ZIF) 15P	
* CN502	1-785-877-21	HOUSING, CONNECTOR 4P	
CN503	1-784-342-21	HOUSING, CONNECTOR 2P	
< DIODE >			
D301	8-719-069-54	DIODE UDZSTE-175.1B	
D302	8-719-069-54	DIODE UDZSTE-175.1B	
D303	8-719-069-54	DIODE UDZSTE-175.1B	
D304	8-719-069-54	DIODE UDZSTE-175.1B	
D403	8-719-404-50	DIODE MA111-TX	
D404	8-719-085-43	DIODE MA2YD2300LSO	
D405	8-719-085-43	DIODE MA2YD2300LSO	
D406	8-719-072-70	DIODE MA2ZD14001SO	
D408	8-719-404-50	DIODE MA111-TX	
D409	8-719-069-54	DIODE UDZSTE-175.1B	
D410	8-719-069-54	DIODE UDZSTE-175.1B	
D411	8-719-069-54	DIODE UDZSTE-175.1B	
D412	8-719-069-54	DIODE UDZSTE-175.1B	
D413	8-719-069-54	DIODE UDZSTE-175.1B	
D801	8-719-072-70	DIODE MA2ZD14001SO	
D803	8-719-064-07	LED SML-310LTT (CHARGE)	
< IC >			
IC302	8-759-522-87	IC TA2120FN (EL)	
IC401	6-701-638-01	IC BH6571KVT	
IC402	6-701-639-01	IC XC6201P212MR	
IC404	6-701-882-01	IC MM1385ANLE	
IC405	8-759-827-34	IC XC61CN1402MR	
IC406	6-701-860-01	IC TB2127AFN (EL)	
IC601	6-701-637-01	IC BU9355KV	
IC603	8-759-679-04	IC MSM51W4400E	
IC801	6-801-347-01	IC T5AJ4-3N53	
< JACK >			
J301	1-815-088-61	JACK, HEADPHONE (♂)	
J401	1-793-156-31	JACK, DC (DC IN 4.5V)	
< COIL >			
L101	1-412-987-41	INDUCTOR 4.7uH	
L201	1-412-987-41	INDUCTOR 4.7uH	
L401	1-414-406-41	INDUCTOR 220uH	
L402	1-419-403-41	CHOKE COIL 47uH	
L404	1-414-398-11	INDUCTOR 10uH	
L405	1-414-398-11	INDUCTOR 10uH	

Ref. No.	Part No.	Description	Remark
L406	1-414-392-41	INDUCTOR 1uH	
L407	1-414-392-41	INDUCTOR 1uH	
L415	1-414-398-11	INDUCTOR 10uH	
L501	1-469-527-11	INDUCTOR 47uH	
L502	1-469-527-11	INDUCTOR 47uH	
L503	1-469-527-11	INDUCTOR 47uH	
L601	1-414-398-11	INDUCTOR 10uH	
L602	1-469-570-21	INDUCTOR 10uH	
L603	1-469-570-21	INDUCTOR 10uH	
L604	1-469-525-11	INDUCTOR 10uH	
L802	1-469-527-11	INDUCTOR 47uH	
< TRANSISTOR >			
Q401	8-729-054-79	TRANSISTOR 2SB167900LSO	
Q402	8-729-029-10	TRANSISTOR DTC143TUA-T106	
Q403	8-729-921-95	TRANSISTOR 2SB1182F5-QR-TLQR	
Q404	8-729-921-80	TRANSISTOR 2SD1781K-T146-QR	
Q405	8-729-231-75	TRANSISTOR 2SC4116GL-TE85L	
Q407	6-550-071-01	TRANSISTOR 2SB169300LSO	
Q601	8-729-054-79	TRANSISTOR 2SB167900LSO	
< RESISTOR >			
R101	1-216-833-11	METAL CHIP 10K 5%	1/10W
R103	1-216-833-11	METAL CHIP 10K 5%	1/10W (EXCEPT FR)
R103	1-216-837-11	METAL CHIP 22K 5%	1/10W (FR)
R105	1-216-837-11	METAL CHIP 22K 5%	1/10W (EXCEPT FR)
R105	1-216-829-11	METAL CHIP 4.7K 5%	1/10W (FR)
R108	1-216-817-11	METAL CHIP 470 5%	1/10W
R109	1-216-793-11	RES-CHIP 4.7 5%	1/10W
R201	1-216-833-11	METAL CHIP 10K 5%	1/10W
R203	1-216-833-11	METAL CHIP 10K 5%	1/10W (EXCEPT FR)
R203	1-216-837-11	METAL CHIP 22K 5%	1/10W (FR)
R205	1-216-837-11	METAL CHIP 22K 5%	1/10W (EXCEPT FR)
R205	1-216-829-11	METAL CHIP 4.7K 5%	1/10W (FR)
R208	1-216-817-11	METAL CHIP 470 5%	1/10W
R209	1-216-793-11	RES-CHIP 4.7 5%	1/10W
R301	1-216-308-00	METAL CHIP 4.7 5%	1/10W
R401	1-216-845-11	METAL CHIP 100K 5%	1/10W
R403	1-216-833-11	METAL CHIP 10K 5%	1/10W
R405	1-216-857-11	METAL CHIP 1M 5%	1/10W
R406	1-216-845-11	METAL CHIP 100K 5%	1/10W
R407	1-216-853-11	METAL CHIP 470K 5%	1/10W
R408	1-216-817-11	METAL CHIP 470 5%	1/10W
R410	1-216-821-11	METAL CHIP 1K 5%	1/10W
R411	1-216-809-11	METAL CHIP 100 5%	1/10W
R412	1-216-298-00	METAL CHIP 2.2 5%	1/10W
R413	1-216-298-00	METAL CHIP 2.2 5%	1/10W
R414	1-216-298-00	METAL CHIP 2.2 5%	1/10W
R415	1-218-903-11	METAL CHIP 220K 0.5%	1/16W
R416	1-218-887-11	METAL CHIP 47K 0.5%	1/16W
R417	1-216-841-11	METAL CHIP 47K 5%	1/10W

MAIN (SUFFIX-11)

MAIN (SUFFIX-12)

Ref. No.	Part No.	Description	Remark		
R419	1-216-864-11	METAL CHIP	0	5%	1/10W
R422	1-216-864-11	METAL CHIP	0	5%	1/10W
R424	1-216-041-00	METAL CHIP	470	5%	1/10W
R425	1-216-841-11	METAL CHIP	47K	5%	1/10W
R426	1-217-671-11	RES-CHIP	1	5%	1/10W
R428	1-216-864-11	METAL CHIP	0	5%	1/10W
R429	1-216-845-11	METAL CHIP	100K	5%	1/10W
R430	1-216-857-11	METAL CHIP	1M	5%	1/10W
R431	1-216-853-11	METAL CHIP	470K	5%	1/10W
R435	1-216-845-11	METAL CHIP	100K	5%	1/10W
R436	1-216-857-11	METAL CHIP	1M	5%	1/10W
R437	1-216-853-11	METAL CHIP	470K	5%	1/10W
R438	1-216-853-11	METAL CHIP	470K	5%	1/10W
R601	1-216-817-11	METAL CHIP	470	5%	1/10W
R602	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R603	1-216-845-11	METAL CHIP	100K	5%	1/10W
R604	1-233-810-21	RES, NETWORK	100K (3216)		
R610	1-216-864-11	METAL CHIP	0	5%	1/10W
R611	1-216-864-11	METAL CHIP	0	5%	1/10W
R616	1-216-817-11	METAL CHIP	470	5%	1/10W
R620	1-216-805-11	METAL CHIP	47	5%	1/10W
R626	1-216-833-11	METAL CHIP	10K	5%	1/10W
R627	1-216-817-11	METAL CHIP	470	5%	1/10W
R628	1-216-864-11	METAL CHIP	0	5%	1/10W
R629	1-216-817-11	METAL CHIP	470	5%	1/10W
R630	1-216-864-11	METAL CHIP	0	5%	1/10W
R631	1-216-817-11	METAL CHIP	470	5%	1/10W
R633	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R636	1-216-857-11	METAL CHIP	1M	5%	1/10W
R801	1-216-845-11	METAL CHIP	100K	5%	1/10W
R802	1-216-833-11	METAL CHIP	10K	5%	1/10W
R803	1-216-833-11	METAL CHIP	10K	5%	1/10W
R804	1-216-833-11	METAL CHIP	10K	5%	1/10W (FR)
R807	1-216-857-11	METAL CHIP	1M	5%	1/10W
R809	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R810	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R811	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R812	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R813	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R814	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R815	1-216-833-11	METAL CHIP	10K	5%	1/10W
R816	1-216-849-11	METAL CHIP	220K	5%	1/10W
R817	1-216-845-11	METAL CHIP	100K	5%	1/10W
R818	1-216-809-11	METAL CHIP	100	5%	1/10W
R819	1-216-821-11	METAL CHIP	1K	5%	1/10W
R820	1-216-833-11	METAL CHIP	10K	5%	1/10W
R824	1-216-817-11	METAL CHIP	470	5%	1/10W
R830	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
< SWITCH >					
S801	1-762-805-41	SWITCH, PUSH (1 KEY) (OPEN)			
S802	1-762-078-11	SWITCH, SLIDE (HOLD)			
S803	1-762-078-11	SWITCH, SLIDE (G-PROTECTION)			
S805	1-771-248-11	SWITCH, TACTILE (▶▶▶▶)			
S806	1-771-248-11	SWITCH, TACTILE (◀◀◀)			
S807	1-771-248-11	SWITCH, TACTILE (■, CHARGE)			

Ref. No.	Part No.	Description	Remark		
S808	1-771-248-11	SWITCH, TACTILE (SOUND)			
S809	1-771-248-11	SWITCH, TACTILE (VOL +)			
S810	1-771-248-11	SWITCH, TACTILE (VOL -)			
S811	1-771-248-11	SWITCH, TACTILE (MENU)			
< VARISTOR >					
VDR101	1-804-499-21	VARISTOR, CHIP			
VDR201	1-804-499-21	VARISTOR, CHIP			
VDR301	1-804-499-21	VARISTOR, CHIP			
VDR801	1-801-862-11	VARISTOR, CHIP			
VDR815	1-804-499-21	VARISTOR, CHIP			
< VIBRATOR >					
X601	1-795-218-21	VIBRATOR, CERAMIC (16.934MHz)			

*	A-3021-759-A	MAIN BOARD, COMPLETE (SUFFIX-12) (JE)			
*	A-3021-760-A	MAIN BOARD, COMPLETE (SUFFIX-12) (FR)			
*	A-3021-812-A	MAIN BOARD, COMPLETE (SUFFIX-12) (EXCEPT FR, JE)			

< BATTERY TERMINAL >					
BT400	3-239-264-01	TERMINAL (+), BATTERY			
BT401	3-239-263-01	TERMINAL BOARD (RELAY), BATTERY			
BT402	3-239-265-01	TERMINAL (-), BATTERY			
< CAPACITOR >					
C102	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C104	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C106	1-125-899-11	TANTALUM CHIP	220uF	20%	4V
C107	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C202	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C204	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C206	1-125-899-11	TANTALUM CHIP	220uF	20%	4V
C207	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C301	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V
C303	1-115-156-11	CERAMIC CHIP	1uF		10V
C304	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C305	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C307	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C401	1-117-887-11	TANTALUM CHIP	220uF	20%	6.3V
C402	1-107-686-11	TANTALUM CHIP	4.7uF	20%	16V
C404	1-111-253-11	TANTALUM CHIP	100uF	20%	6.3V
C405	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C406	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C407	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C408	1-128-964-11	TANTALUM CHIP	100uF	20%	6.3V
C409	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C410	1-115-156-11	CERAMIC CHIP	1uF		10V
C412	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C413	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C415	1-117-887-11	TANTALUM CHIP	220uF	20%	6.3V
C416	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C417	1-115-156-11	CERAMIC CHIP	1uF		10V
C418	1-115-156-11	CERAMIC CHIP	1uF		10V
C422	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C425	1-104-908-11	TANTALUM CHIP	47uF	20%	4V
C426	1-164-156-11	CERAMIC CHIP	0.1uF		25V

MAIN (SUFFIX-12)

Ref. No.	Part No.	Description	Remark	
C427	1-135-201-11	TANTALUM CHIP 10uF	20%	4V
C429	1-164-505-11	CERAMIC CHIP 2.2uF		16V
C431	1-162-970-11	CERAMIC CHIP 0.01uF	10%	25V
C432	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C434	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C435	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C436	1-115-156-11	CERAMIC CHIP 1uF		10V
C437	1-104-852-11	TANTALUM CHIP 22uF	20%	6.3V
C438	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V
C439	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V
C440	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V
C441	1-115-156-11	CERAMIC CHIP 1uF		10V
C442	1-111-253-11	TANTALUM CHIP 100uF	20%	6.3V
C443	1-162-968-11	CERAMIC CHIP 0.0047uF	10%	50V
C444	1-117-720-11	CERAMIC CHIP 4.7uF		10V
C502	1-164-505-11	CERAMIC CHIP 2.2uF		16V
C503	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C602	1-135-201-11	TANTALUM CHIP 10uF	20%	4V
C603	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C604	1-164-505-11	CERAMIC CHIP 2.2uF		16V
C605	1-162-927-11	CERAMIC CHIP 100PF	5%	50V
C606	1-162-927-11	CERAMIC CHIP 100PF	5%	50V
C607	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V
C608	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C609	1-135-201-11	TANTALUM CHIP 10uF	20%	4V
C610	1-162-970-11	CERAMIC CHIP 0.01uF	10%	25V
C611	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V
C612	1-162-970-11	CERAMIC CHIP 0.01uF	10%	25V
C613	1-162-966-11	CERAMIC CHIP 0.0022uF	10%	50V
C614	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V
C616	1-162-923-11	CERAMIC CHIP 47PF	5%	50V
C617	1-115-467-11	CERAMIC CHIP 0.22uF	10%	10V
C618	1-115-467-11	CERAMIC CHIP 0.22uF	10%	10V
C619	1-111-253-11	TANTALUM CHIP 100uF	20%	6.3V
C620	1-115-156-11	CERAMIC CHIP 1uF		10V
C621	1-115-156-11	CERAMIC CHIP 1uF		10V
C622	1-162-915-11	CERAMIC CHIP 10PF	0.5PF	50V
C623	1-162-915-11	CERAMIC CHIP 10PF	0.5PF	50V
C624	1-115-156-11	CERAMIC CHIP 1uF		10V
C625	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C626	1-162-923-11	CERAMIC CHIP 47PF	5%	50V
C627	1-162-927-11	CERAMIC CHIP 100PF	5%	50V
C628	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C629	1-135-201-11	TANTALUM CHIP 10uF	20%	4V
C630	1-162-927-11	CERAMIC CHIP 100PF	5%	50V
C634	1-162-966-11	CERAMIC CHIP 0.0022uF	10%	50V
C635	1-162-966-11	CERAMIC CHIP 0.0022uF	10%	50V
C801	1-115-156-11	CERAMIC CHIP 1uF		10V
C802	1-115-467-11	CERAMIC CHIP 0.22uF	10%	10V
C804	1-127-576-21	CAP, CHIP CERAMIC	22000PF B	
C806	1-162-968-11	CERAMIC CHIP 0.0047uF	10%	50V
C813	1-162-968-11	CERAMIC CHIP 0.0047uF	10%	50V
C814	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C818	1-162-968-11	CERAMIC CHIP 0.0047uF	10%	50V
C819	1-104-847-11	TANTALUM CHIP 22uF	20%	4V

Ref. No.	Part No.	Description	Remark
< CONNECTOR >			
* CN501	1-815-832-21	CONNECTOR, FFC/FPC (ZIF) 15P	
* CN502	1-785-877-21	HOUSING, CONNECTOR 4P	
CN503	1-784-342-21	HOUSING, CONNECTOR 2P	
< DIODE >			
D301	8-719-069-54	DIODE UDZSTE-175.1B	
D302	8-719-069-54	DIODE UDZSTE-175.1B	
D303	8-719-069-54	DIODE UDZSTE-175.1B	
D304	8-719-069-54	DIODE UDZSTE-175.1B	
D403	8-719-404-50	DIODE MA111-TX	
D404	8-719-085-43	DIODE MA2YD2300LSO	
D405	8-719-085-43	DIODE MA2YD2300LSO	
D406	8-719-072-70	DIODE MA2ZD14001SO	
D408	8-719-404-50	DIODE MA111-TX	
D409	8-719-069-54	DIODE UDZSTE-175.1B	
D410	8-719-069-54	DIODE UDZSTE-175.1B	
D411	8-719-069-54	DIODE UDZSTE-175.1B	
D412	8-719-069-54	DIODE UDZSTE-175.1B	
D413	8-719-069-54	DIODE UDZSTE-175.1B	
D801	8-719-072-70	DIODE MA2ZD14001SO	
D803	8-719-064-07	LED SML-310LTT (CHARGE)	
< IC >			
IC302	8-759-522-87	IC TA2120FN (EL)	
IC401	6-701-638-01	IC BH6571KVT	
IC402	6-701-639-01	IC XC6201P212MR	
IC404	6-701-882-01	IC MM1385ANLE	
IC405	8-759-827-34	IC XC61CN1402MR	
IC406	6-701-860-01	IC TB2127AFN (EL)	
IC601	6-701-637-01	IC BU9355KV	
IC603	8-759-679-04	IC MSM51W4400E	
IC801	6-801-347-01	IC T5AJ4-3N53	
< JACK >			
J301	1-815-088-61	JACK, HEADPHONE (㊂)	
J401	1-793-156-31	JACK, DC (DC IN 4.5V)	
< COIL >			
L101	1-412-987-41	INDUCTOR 4.7uH	
L201	1-412-987-41	INDUCTOR 4.7uH	
L401	1-414-406-41	INDUCTOR 220uH	
L402	1-419-403-41	CHOKE COIL 47uH	
L404	1-414-398-11	INDUCTOR 10uH	
L405	1-414-398-11	INDUCTOR 10uH	
L406	1-414-392-41	INDUCTOR 1uH	
L407	1-414-392-41	INDUCTOR 1uH	
L415	1-414-398-11	INDUCTOR 10uH	
L501	1-469-527-11	INDUCTOR 47uH	
L502	1-469-527-11	INDUCTOR 47uH	
L503	1-469-527-11	INDUCTOR 47uH	
L601	1-414-398-11	INDUCTOR 10uH	
L602	1-469-570-21	INDUCTOR 10uH	
L603	1-469-570-21	INDUCTOR 10uH	
L604	1-469-525-11	INDUCTOR 10uH	
L802	1-469-527-11	INDUCTOR 47uH	

MAIN (SUFFIX-12)

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
< TRANSISTOR >						R436	1-216-857-11	METAL CHIP	1M	5%	1/10W
Q401	8-729-054-79	TRANSISTOR	2SB167900LSO			R437	1-216-853-11	METAL CHIP	470K	5%	1/10W
Q402	8-729-029-10	TRANSISTOR	DTC143TUA-T106			R438	1-216-853-11	METAL CHIP	470K	5%	1/10W
Q403	8-729-921-95	TRANSISTOR	2SB1182F5-QR-TLQR			R601	1-216-817-11	METAL CHIP	470	5%	1/10W
Q404	8-729-921-80	TRANSISTOR	2SD1781K-T146-QR			R602	1-216-298-00	METAL CHIP	2.2	5%	1/10W
Q405	8-729-231-75	TRANSISTOR	2SC4116GL-TE85L			R603	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q407	6-550-071-01	TRANSISTOR	2SB169300LSO			R604	1-233-810-21	RES, NETWORK	100K (3216)		
Q601	8-729-054-79	TRANSISTOR	2SB167900LSO			R610	1-216-864-11	METAL CHIP	0	5%	1/10W
< RESISTOR >						R611	1-216-864-11	METAL CHIP	0	5%	1/10W
R101	1-216-833-11	METAL CHIP	10K	5%	1/10W	R616	1-216-817-11	METAL CHIP	470	5%	1/10W
R103	1-216-833-11	METAL CHIP	10K	5%	1/10W	R620	1-216-805-11	METAL CHIP	47	5%	1/10W
R103	1-216-837-11	METAL CHIP	22K	5%	1/10W (EXCEPT FR)	R626	1-216-833-11	METAL CHIP	10K	5%	1/10W
R105	1-216-837-11	METAL CHIP	22K	5%	1/10W (FR)	R627	1-216-817-11	METAL CHIP	470	5%	1/10W
R105	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (EXCEPT FR)	R628	1-216-864-11	METAL CHIP	0	5%	1/10W
R108	1-216-817-11	METAL CHIP	470	5%	1/10W (FR)	R629	1-216-817-11	METAL CHIP	470	5%	1/10W
R109	1-216-793-11	RES-CHIP	4.7	5%	1/10W	R630	1-216-864-11	METAL CHIP	0	5%	1/10W
R201	1-216-833-11	METAL CHIP	10K	5%	1/10W	R631	1-216-817-11	METAL CHIP	470	5%	1/10W
R203	1-216-833-11	METAL CHIP	10K	5%	1/10W	R633	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R203	1-216-837-11	METAL CHIP	22K	5%	1/10W (EXCEPT FR)	R636	1-216-857-11	METAL CHIP	1M	5%	1/10W
R205	1-216-837-11	METAL CHIP	22K	5%	1/10W (FR)	R801	1-216-845-11	METAL CHIP	100K	5%	1/10W
R205	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (EXCEPT FR)	R802	1-216-833-11	METAL CHIP	10K	5%	1/10W
R208	1-216-817-11	METAL CHIP	470	5%	1/10W	R803	1-216-833-11	METAL CHIP	10K	5%	1/10W
R209	1-216-793-11	RES-CHIP	4.7	5%	1/10W	R804	1-216-833-11	METAL CHIP	10K	5%	1/10W (FR)
R301	1-216-308-00	METAL CHIP	4.7	5%	1/10W	R807	1-216-857-11	METAL CHIP	1M	5%	1/10W
R401	1-216-845-11	METAL CHIP	100K	5%	1/10W	R809	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R403	1-216-833-11	METAL CHIP	10K	5%	1/10W	R810	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R405	1-216-857-11	METAL CHIP	1M	5%	1/10W	R811	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R406	1-216-845-11	METAL CHIP	100K	5%	1/10W	R812	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R407	1-216-853-11	METAL CHIP	470K	5%	1/10W	R813	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R408	1-216-817-11	METAL CHIP	470	5%	1/10W	R814	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R409	1-216-845-11	METAL CHIP	100K	5%	1/10W	R815	1-216-833-11	METAL CHIP	10K	5%	1/10W
R410	1-216-821-11	METAL CHIP	1K	5%	1/10W	R816	1-216-849-11	METAL CHIP	220K	5%	1/10W
R411	1-216-809-11	METAL CHIP	100	5%	1/10W	R817	1-216-845-11	METAL CHIP	100K	5%	1/10W
R412	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R818	1-216-809-11	METAL CHIP	100	5%	1/10W
R413	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R819	1-216-821-11	METAL CHIP	1K	5%	1/10W
R414	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R820	1-216-833-11	METAL CHIP	10K	5%	1/10W
R415	1-218-903-11	METAL CHIP	220K	0.5%	1/16W	R824	1-216-817-11	METAL CHIP	470	5%	1/10W
R416	1-218-887-11	METAL CHIP	47K	0.5%	1/16W	R830	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R417	1-216-841-11	METAL CHIP	47K	5%	1/10W	< SWITCH >					
R419	1-216-864-11	METAL CHIP	0	5%	1/10W	S801	1-762-805-41	SWITCH, PUSH (1 KEY) (OPEN)			
R422	1-216-864-11	METAL CHIP	0	5%	1/10W	S802	1-762-078-11	SWITCH, SLIDE (HOLD)			
R424	1-216-041-00	METAL CHIP	470	5%	1/10W	S803	1-762-078-11	SWITCH, SLIDE (G-PROTECTION)			
R425	1-216-841-11	METAL CHIP	47K	5%	1/10W	S805	1-771-248-11	SWITCH, TACTILE (▶▶▶▶)			
R426	1-217-671-11	RES-CHIP	1	5%	1/10W	S806	1-771-248-11	SWITCH, TACTILE (◀◀◀◀)			
R428	1-216-864-11	METAL CHIP	0	5%	1/10W	S807	1-771-248-11	SWITCH, TACTILE (■, CHARGE)			
R429	1-216-845-11	METAL CHIP	100K	5%	1/10W	S808	1-771-248-11	SWITCH, TACTILE (SOUND)			
R430	1-216-857-11	METAL CHIP	1M	5%	1/10W	S809	1-771-248-11	SWITCH, TACTILE (VOL +)			
R431	1-216-853-11	METAL CHIP	470K	5%	1/10W	S810	1-771-248-11	SWITCH, TACTILE (VOL -)			
R435	1-216-845-11	METAL CHIP	100K	5%	1/10W	S811	1-771-248-11	SWITCH, TACTILE (MENU)			
< VARISTOR >						< VARISTOR >					
VDR101	1-804-499-21	VARISTOR, CHIP				VDR101	1-804-499-21	VARISTOR, CHIP			
VDR201	1-804-499-21	VARISTOR, CHIP				VDR201	1-804-499-21	VARISTOR, CHIP			
VDR301	1-804-499-21	VARISTOR, CHIP				VDR301	1-804-499-21	VARISTOR, CHIP			
VDR801	1-801-862-11	VARISTOR, CHIP				VDR801	1-801-862-11	VARISTOR, CHIP			
VDR815	1-804-499-21	VARISTOR, CHIP				VDR815	1-804-499-21	VARISTOR, CHIP			

MAIN (SUFFIX-12)

MAIN (SUFFIX-13)

Ref. No.	Part No.	Description	Remark
< VIBRATOR >			
X601	1-795-218-21	VIBRATOR, CERAMIC (16.934MHz)	

*	A-3021-759-A	MAIN BOARD, COMPLETE (SUFFIX-13) (JE)	
*	A-3021-760-A	MAIN BOARD, COMPLETE (SUFFIX-13) (FR)	
*	A-3021-812-A	MAIN BOARD, COMPLETE (SUFFIX-13) (EXCEPT FR, JE)	

< BATTERY TERMINAL >			
BT400	3-239-264-01	TERMINAL (+), BATTERY	
BT401	3-239-263-01	TERMINAL BOARD (RELAY), BATTERY	
BT402	3-239-265-01	TERMINAL (-), BATTERY	
< CAPACITOR >			
C102	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C104	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C106	1-125-899-11	TANTALUM CHIP 220uF	20% 4V
C107	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C202	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C204	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C206	1-125-899-11	TANTALUM CHIP 220uF	20% 4V
C207	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C301	1-110-569-11	TANTALUM CHIP 47uF	20% 6.3V
C303	1-115-156-11	CERAMIC CHIP 1uF	10V
C304	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C305	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C307	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C401	1-117-887-11	TANTALUM CHIP 220uF	20% 6.3V
C402	1-107-686-11	TANTALUM CHIP 4.7uF	20% 16V
C404	1-111-253-11	TANTALUM CHIP 100uF	20% 6.3V
C405	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C406	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C407	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C408	1-128-964-11	TANTALUM CHIP 100uF	20% 6.3V
C409	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V
C410	1-115-156-11	CERAMIC CHIP 1uF	10V
C412	1-165-176-11	CERAMIC CHIP 0.047uF	10% 16V
C413	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C415	1-117-887-11	TANTALUM CHIP 220uF	20% 6.3V
C416	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C417	1-115-156-11	CERAMIC CHIP 1uF	10V
C418	1-115-156-11	CERAMIC CHIP 1uF	10V
C422	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V
C425	1-104-908-11	TANTALUM CHIP 47uF	20% 4V
C426	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C427	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C429	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C431	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C432	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C434	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C435	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C436	1-115-156-11	CERAMIC CHIP 1uF	10V
C437	1-104-852-11	TANTALUM CHIP 22uF	20% 6.3V
C438	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C439	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C440	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V

Ref. No.	Part No.	Description	Remark
C441	1-115-156-11	CERAMIC CHIP 1uF	10V
C442	1-111-253-11	TANTALUM CHIP 100uF	20% 6.3V
C443	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V
C444	1-117-720-11	CERAMIC CHIP 4.7uF	10V
C502	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C503	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C602	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C603	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C604	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C605	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C606	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C607	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C608	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C609	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C610	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C611	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C612	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C613	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C614	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C616	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C617	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V
C618	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V
C619	1-111-253-11	TANTALUM CHIP 100uF	20% 6.3V
C620	1-115-156-11	CERAMIC CHIP 1uF	10V
C621	1-115-156-11	CERAMIC CHIP 1uF	10V
C622	1-162-915-11	CERAMIC CHIP 10PF	0.5PF 50V
C623	1-162-915-11	CERAMIC CHIP 10PF	0.5PF 50V
C624	1-115-156-11	CERAMIC CHIP 1uF	10V
C625	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C626	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C627	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C628	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C629	1-135-201-11	TANTALUM CHIP 10uF	20% 4V
C630	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C632	1-115-156-11	CERAMIC CHIP 1uF	10V
C634	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C635	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C801	1-115-156-11	CERAMIC CHIP 1uF	10V
C802	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V
C804	1-127-576-21	CAP, CHIP CERAMIC	22000PF B
C806	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V
C813	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V
C814	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C818	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V
C819	1-104-847-11	TANTALUM CHIP 22uF	20% 4V
< CONNECTOR >			
* CN501	1-815-832-21	CONNECTOR, FFC/FPC (ZIF) 15P	
* CN502	1-785-877-21	HOUSING, CONNECTOR 4P	
CN503	1-784-342-21	HOUSING, CONNECTOR 2P	
< DIODE >			
D301	8-719-069-54	DIODE UDZSTE-175.1B	
D302	8-719-069-54	DIODE UDZSTE-175.1B	
D303	8-719-069-54	DIODE UDZSTE-175.1B	
D304	8-719-069-54	DIODE UDZSTE-175.1B	
D403	8-719-404-50	DIODE MA111-TX	

MAIN (SUFFIX-13)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D404	8-719-085-43	DIODE MA2YD2300LS0		R103	1-216-833-11	METAL CHIP 10K 5%	1/10W (EXCEPT FR)
D405	8-719-085-43	DIODE MA2YD2300LS0		R103	1-216-837-11	METAL CHIP 22K 5%	1/10W (FR)
D406	8-719-072-70	DIODE MA2ZD14001S0		R105	1-216-837-11	METAL CHIP 22K 5%	1/10W (EXCEPT FR)
D409	8-719-069-54	DIODE UDZSTE-175.1B		R105	1-216-829-11	METAL CHIP 4.7K 5%	1/10W (FR)
D410	8-719-069-54	DIODE UDZSTE-175.1B					
D411	8-719-069-54	DIODE UDZSTE-175.1B		R108	1-216-817-11	METAL CHIP 470 5%	1/10W
D412	8-719-069-54	DIODE UDZSTE-175.1B		R109	1-216-793-11	RES-CHIP 4.7 5%	1/10W
D413	8-719-069-54	DIODE UDZSTE-175.1B		R201	1-216-833-11	METAL CHIP 10K 5%	1/10W
D801	8-719-072-70	DIODE MA2ZD14001S0		R203	1-216-833-11	METAL CHIP 10K 5%	1/10W (EXCEPT FR)
D803	8-719-064-07	LED SML-310LTT (CHARGE)		R203	1-216-837-11	METAL CHIP 22K 5%	1/10W (FR)
< IC >							
IC302	8-759-522-87	IC TA2120FN (EL)					
IC401	6-701-638-01	IC BH6571KVT					
IC402	6-701-639-01	IC XC6201P212MR					
IC404	6-701-882-01	IC MM1385ANLE		R205	1-216-837-11	METAL CHIP 22K 5%	1/10W (EXCEPT FR)
IC405	8-759-827-34	IC XC61CN1402MR		R205	1-216-829-11	METAL CHIP 4.7K 5%	1/10W (FR)
IC406	6-701-860-01	IC TB2127AFN (EL)					
IC601	6-701-637-01	IC BU9355KV		R208	1-216-817-11	METAL CHIP 470 5%	1/10W
IC603	8-759-679-04	IC MSM51W4400E		R209	1-216-793-11	RES-CHIP 4.7 5%	1/10W
IC801	6-801-347-01	IC T5AJ4-3N53		R301	1-216-308-00	METAL CHIP 4.7 5%	1/10W
< JACK >							
J301	1-815-088-61	JACK, HEADPHONE (㉿)		R401	1-216-845-11	METAL CHIP 100K 5%	1/10W
J401	1-793-156-31	JACK, DC (DC IN 4.5V)		R403	1-216-833-11	METAL CHIP 10K 5%	1/10W
< COIL >				R405	1-216-857-11	METAL CHIP 1M 5%	1/10W
L101	1-412-987-41	INDUCTOR 4.7uH		R406	1-216-845-11	METAL CHIP 100K 5%	1/10W
L201	1-412-987-41	INDUCTOR 4.7uH		R407	1-216-853-11	METAL CHIP 470K 5%	1/10W
L401	1-414-406-41	INDUCTOR 220uH					
L402	1-419-403-41	CHOKE COIL 47uH		R408	1-216-817-11	METAL CHIP 470 5%	1/10W
L404	1-414-398-11	INDUCTOR 10uH		R409	1-216-845-11	METAL CHIP 100K 5%	1/10W
L405	1-414-398-11	INDUCTOR 10uH		R410	1-216-821-11	METAL CHIP 1K 5%	1/10W
L406	1-414-392-41	INDUCTOR 1uH		R411	1-216-809-11	METAL CHIP 100 5%	1/10W
L407	1-414-392-41	INDUCTOR 1uH		R412	1-216-298-00	METAL CHIP 2.2 5%	1/10W
L415	1-414-398-11	INDUCTOR 10uH					
L501	1-469-527-11	INDUCTOR 47uH		R413	1-216-298-00	METAL CHIP 2.2 5%	1/10W
L502	1-469-527-11	INDUCTOR 47uH		R414	1-216-298-00	METAL CHIP 2.2 5%	1/10W
L503	1-469-527-11	INDUCTOR 47uH		R415	1-218-903-11	METAL CHIP 220K 0.5%	1/16W
L601	1-414-398-11	INDUCTOR 10uH		R416	1-218-887-11	METAL CHIP 47K 0.5%	1/16W
L602	1-469-570-21	INDUCTOR 10uH		R417	1-216-841-11	METAL CHIP 47K 5%	1/10W
L603	1-469-570-21	INDUCTOR 10uH					
L604	1-469-525-11	INDUCTOR 10uH		R419	1-216-864-11	METAL CHIP 0 5%	1/10W
L802	1-469-527-11	INDUCTOR 47uH		R422	1-216-864-11	METAL CHIP 0 5%	1/10W
< TRANSISTOR >				R424	1-216-041-00	METAL CHIP 470 5%	1/10W
Q401	8-729-054-79	TRANSISTOR 2SB167900LS0		R425	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q402	8-729-029-10	TRANSISTOR DTC143TUA-T106		R426	1-217-671-11	RES-CHIP 1 5%	1/10W
Q403	8-729-921-95	TRANSISTOR 2SB1182F5-QR-TLQR					
Q404	8-729-921-80	TRANSISTOR 2SD1781K-T146-QR		R428	1-216-864-11	METAL CHIP 0 5%	1/10W
Q405	8-729-231-75	TRANSISTOR 2SC4116GL-TE85L		R429	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q407	6-550-071-01	TRANSISTOR 2SB169300LS0		R430	1-216-857-11	METAL CHIP 1M 5%	1/10W
Q601	8-729-054-79	TRANSISTOR 2SB167900LS0		R431	1-216-853-11	METAL CHIP 470K 5%	1/10W
Q602	8-729-054-79	TRANSISTOR 2SB167900LS0		R435	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q603	8-729-231-75	TRANSISTOR 2SC4116GL-TE85L					
< RESISTOR >				R437	1-216-845-11	METAL CHIP 100K 5%	1/10W
R101	1-216-833-11	METAL CHIP 10K 5%	1/10W	R438	1-216-849-11	METAL CHIP 220K 5%	1/10W
				R440	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R601	1-216-817-11	METAL CHIP 470 5%	1/10W
				R602	1-216-298-00	METAL CHIP 2.2 5%	1/10W
				R603	1-216-845-11	METAL CHIP 100K 5%	1/10W
				R604	1-233-810-21	RES, NETWORK 100K (3216)	
				R605	1-216-837-11	METAL CHIP 22K 5%	1/10W
				R606	1-216-837-11	METAL CHIP 22K 5%	1/10W
				R607	1-216-837-11	METAL CHIP 22K 5%	1/10W
				R610	1-216-864-11	METAL CHIP 0 5%	1/10W
				R611	1-216-864-11	METAL CHIP 0 5%	1/10W

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
	3-239-300-41	MANUAL, INSTRUCTION (POLISH) (EE)	
	3-239-300-51	MANUAL, INSTRUCTION (SLOVAKIAN) (EE)	
	3-239-300-61	MANUAL, INSTRUCTION (KOREAN) (KR)	
	8-954-008-91	RECEIVER,EAR MDR-E808SP/C1 SET	

REVISION HISTORY

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