

# D-E350/E351/E351SR/E353/E355/E356CK

## SERVICE MANUAL

Ver 1.2 2002.06

With SUPPLEMENT-1

With SUPPLEMENT-2



Photo : D-E350

*US Model*

*D-E350/E356CK*

*Canadian Model*

*D-E350/E351/E356CK*

*AEP Model*

*D-E350/E351/E353/E351SR/E356CK*

*UK Model*

*Australian Model*

*D-E351/E356CK*

*E Model*

*D-E350/E351/E351SR/E353/E355/E356CK*

*Chinese Model*

*D-E355*

Model Name Using Similar Mechanism	NEW
CD Mechanism Type	CDM-3125ER
Optical Pick-up Type	DAX-25E

### SPECIFICATIONS

#### System

Compact disc digital audio system

#### Laser diode properties

Material: GaAlAs

Wavelength:  $\lambda = 780$  nm

Emission duration: Continuous

Laser output: Less than 44.6  $\mu$ 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. )

#### Error correction

Sony Super Strategy Cross Interleave Reed Solomon Code

#### D-A conversion

1-bit quartz time-axis control

#### Frequency response

20 - 20 000 Hz  $\pm 3$  dB (measured by JEITA CP-307)

#### Output (at 4.5 V input level)

Headphones (stereo minijack)

Approx. 10 mW + approx. 10 mW at 16  $\Omega$

(Approx. 1 mW + approx. 1 mW at 16  $\Omega^*$ )

\*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 LR6 (size AA) batteries: 3 V DC

- AC power adaptor (DC IN 4.5 V jack):

US, CND, C&SA, MX, TW model:

120 V, 60 Hz

AEP, FR, EE, E13 model: 220 - 230 V, 50/60 Hz

UK model: 230 - 240 V, 50 Hz

AUS model: 240 V, 50 Hz

E33, EA, KR model: 100 - 240 V, 50/60 Hz

HK model: 220 V, 50/60 Hz

AR, CH model: 220 V, 50 Hz

#### Dimensions (w/h/d) (without projecting parts and controls)

Approx. 130.6  $\times$  26.3  $\times$  150.5 mm  
(5  $\frac{1}{4}$   $\times$  1  $\frac{1}{16}$   $\times$  6 in.)

Mass (excluding accessories)

Approx. 190 g (6.8 oz)

Operating temperature

5°C - 35°C (41°F - 95°F)

#### Supplied accessories

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

#### D-E350

Headphones/earphones (1)

#### D-E351

AC power adaptor (1)

Headphones/earphones (1)

AC plug adaptor (1)\*

\*Supplied with EA3 model

#### D-E351SR

AC power adaptor (1)

Headphones/earphones (1)

Active speaker system (1)

#### D-E353

AC power adaptor (1)

Headphones/earphones (1)

Rechargeable battery (2)

Battery carrying case (1)

#### D-E355

AC power adaptor (1)

Headphones/earphones with remote control (1)

Rechargeable battery (2)

Battery carrying case (1)

#### D-E356CK

AC power adaptor (1)

Headphones/earphones (1)

Car connecting pack (1)

Car battery cord (1)

Spiral tube (1)

Velcro tape (2)

Design and specifications are subject to change without notice.

## PORTABLE CD PLAYER

9-873-479-03

2002F0200-1

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**Sony Corporation**

Personal Audio Company

Published by Sony Engineering Corporation

# SONY®

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### • Abbreviation

AUS : Australian	CND : Canadian
FR : French	HK : Hong Kong
AR : Argentina	EA : Saudi Arabia
CH : Chinese	EE : East European
TW : Taiwan	MX : Mexico
KR : Korean	
C&SA : Central and South America	
E13 : AC220-230V area model	
E33 : AC100-240V area model	

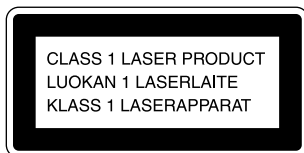
### DANGER

Invisible laser radiation when open and interlock failed or defeated.  
Avoid direct exposure to beam.

### CAUTION

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

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

### Flexible Circuit Board Repairing

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

### Notes on chip component replacement

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

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### 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.

## SERVICING NOTES

### 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 30cm 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 Procedure" (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 ⑥ pin  
When checking FOK, remove the lead wire to disc motor.
- RF signal P-to-P value : 0.45 to 0.65Vp-p

### Laser Diode Checking Methods

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

The following two checking methods for the laser diode are operable.

### Method :

#### Emission of the laser diode is visually checked.

1. Open the upper lid.
2. Push the S801 as shown in Fig. 1 .
3. Check the object lens for confirming normal emission of the laser diode. If not emitting, there is a trouble in the automatic power control circuit or the optical pick-up. During normal operation, the laser diode is turned ON about 2.5 seconds for focus searching.

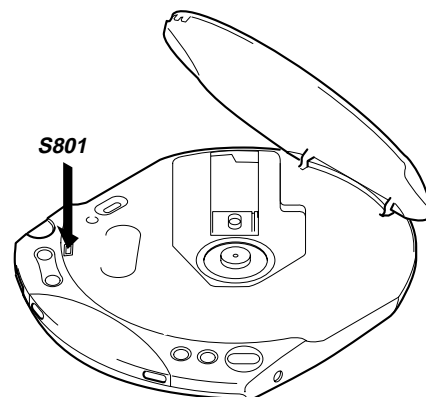
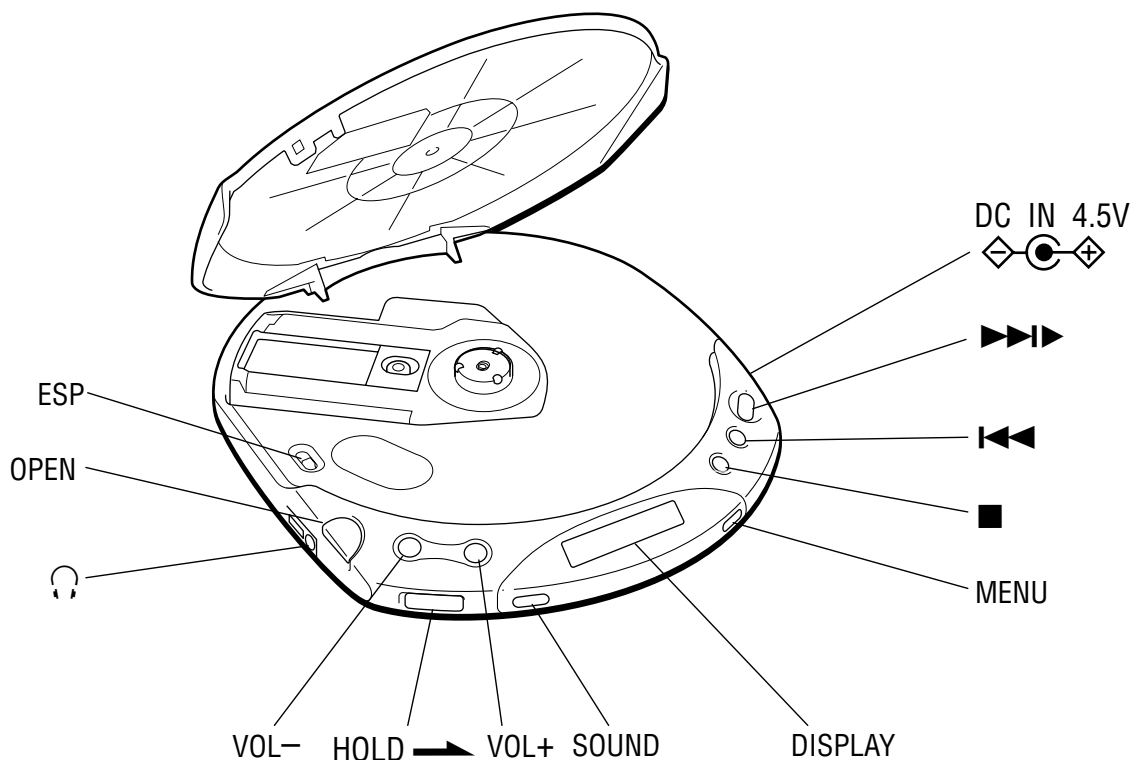


Fig.1 Method to push S801

## SECTION 2 GENERAL

This section is extracted from instruction manual.

### LOCATING THE CONTROLS

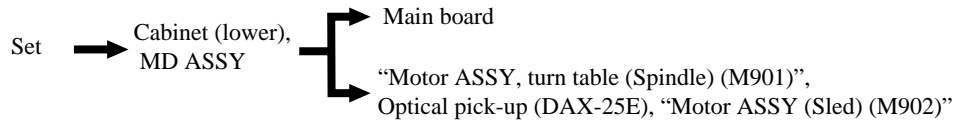


# D-E350/E351/E351SR/E353/E355/E356CK

## SECTION 3

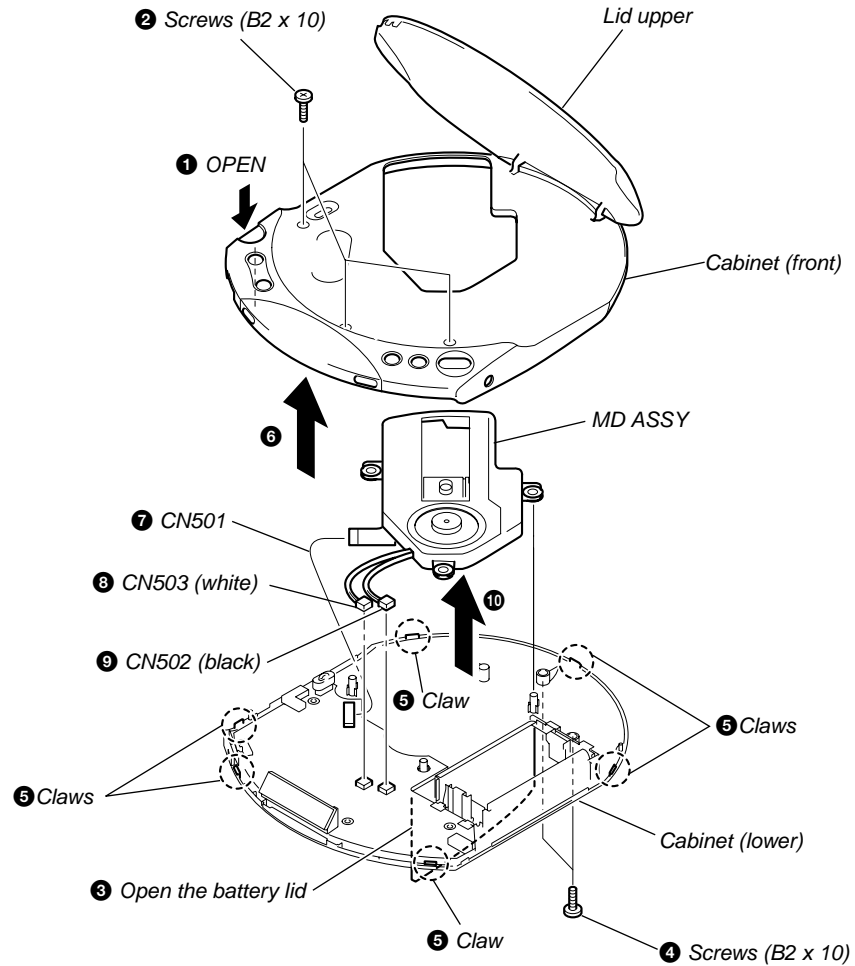
### DISASSEMBLY

- The equipment can be removed using the following procedure.

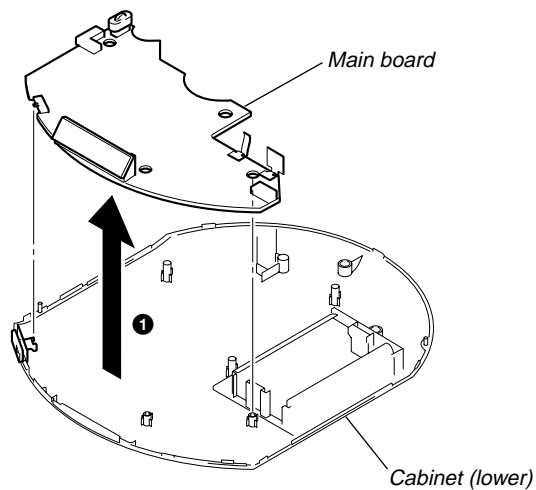


**Note :** Follow the disassembly procedure in the numerical order given.

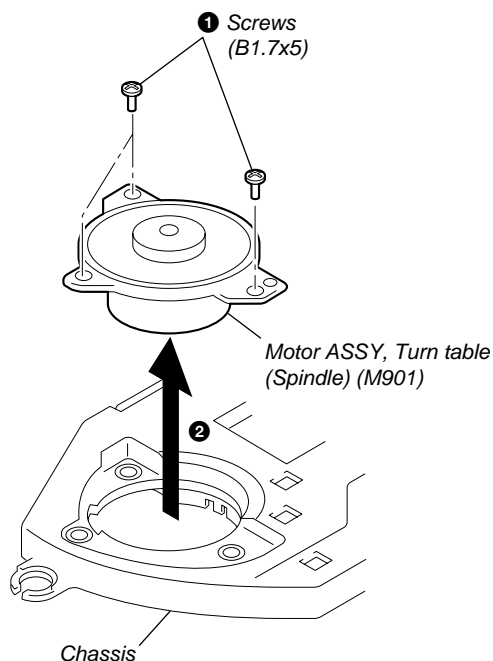
#### 3-1. CABINET (LOWER), MD ASSY



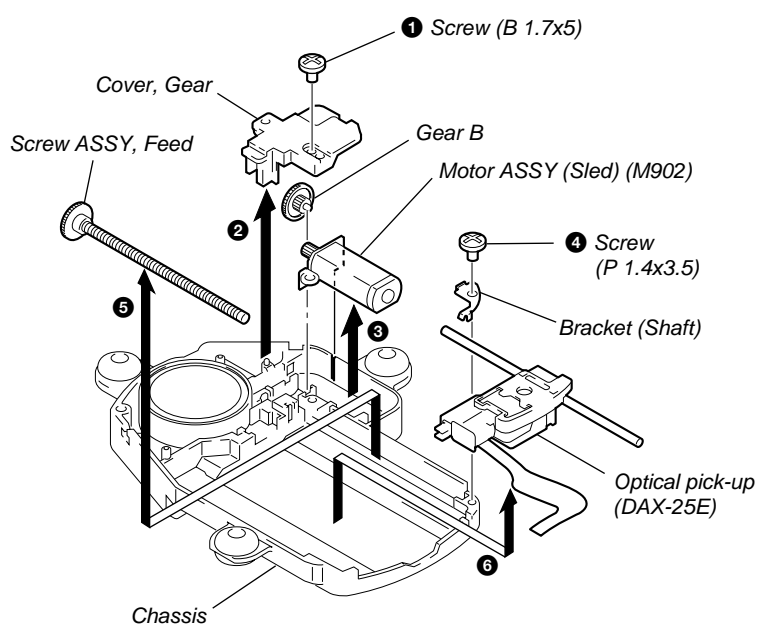
#### 3-2. MAIN BOARD



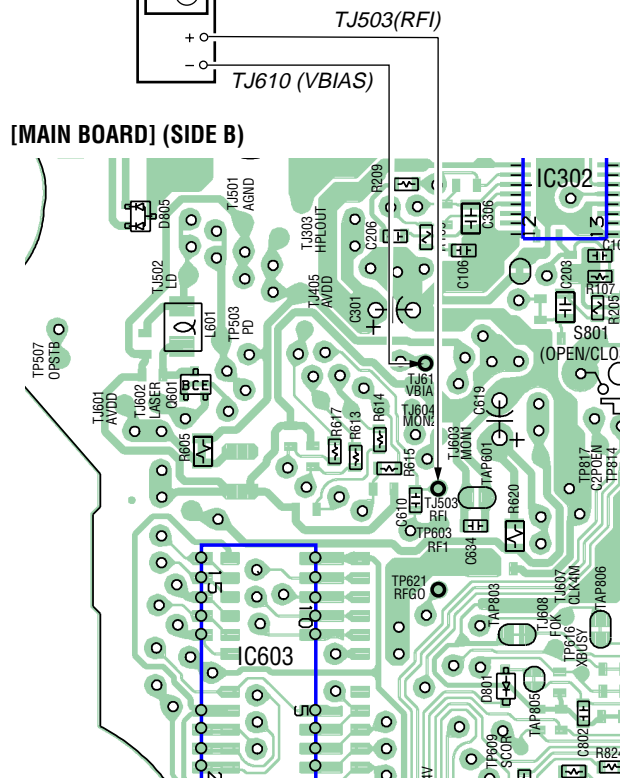
### 3-3. "MOTOR ASSY, TURN TABLE (SPINDLE) (M901)"



### 3-4. "MOTOR ASSY (SLED) (M902)", OPTICAL PICK-UP (DAX-25E)



- VOLUME button : Minimum  
HOLD switch : OFF



# D-E350/E351/E351SR/E353/E355/E356CK

## SECTION 5

## DIAGRAMS

### 5-1. EXPLANATION OF IC TERMINALS

#### IC801 (SYSTEM CONTROL) T5AW5-Z5-M0

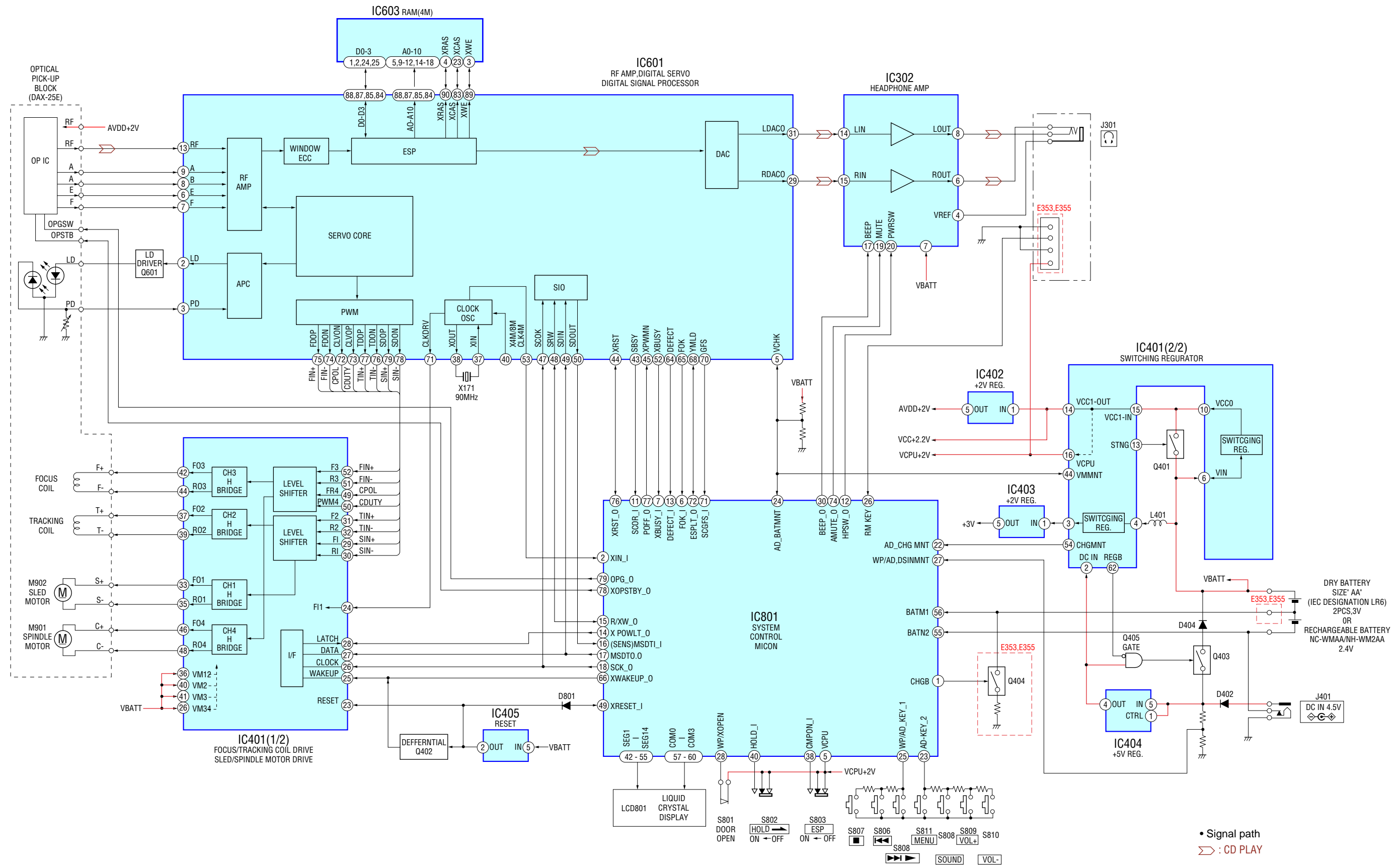
Pin No.	Pin name	I/O	Description
1	GND	–	Ground terminal.
2	XIN	I	System clock input.
3	XOUT	O	Not used (OPEN).
4	TEST	I	Test mode terminal (FiXed to “L”).
5	VCPU	–	Power supply for CPU & I/O.
6	FOK_I	I	Focus OK signal input.
7	XBUSY_I	I	DSP’s auto sequencer status.
8	XRESET_I	I/O	Micon reset terminal.
9	XSTOP_I	I	Not used (FiXed to “L”).
10	DFCT CTRL	O	Not used (OPEN).
11	SCOR_I	I	SCOR pulse input.
12	HPSW_O	O	Headphone IC power switch.
13	DEFECT	O	DEFECT signal output (Not used).
14	XPOWLT_O	O	Power IC’s serial interface latch output.
15	R/XW_O	O	DSP’s serial interface Read/Write signal output.
16	MSDTI	I	Serial interface input.
17	MSDTO	O	Serial interface output.
18	SCK_O	O	Serial interface clock output.
19	AVCPU	–	Power supply for CPU and I/O.
20	VREFH	–	Analog reference voltage for A/D converter.
21	AD_SEL	I	Test mode detection input
22	AD_CHGMNT	I	Charging monitor input.
23	AD_KEY2	I	Key input.
24	AD_BATMNT	I	Battery voltage monitor input.
25	AD_KEY	I	Set’s key detection input.
26	AD_RMKEY	I	Remocon’s key detection input.
27	AD_DCINMNT	I	DC voltage monitoring input.
28	XOPEN_I	I	OPEN switch status detection input.
29	P50	O	Not used (OPEN).
30	BEEP_O	O	BEEP sound
31	TSB	O	Not used (OPEN).
32	VDD_EEPROM	–	Power supply for EEPROM (OPEN).
33	P44	O	Not used (OPEN).
34	XNONCHG_I	I	Charging feature detection
35	P42	O	Not used (OPEN).
36	FRANCE_I	I	France version detection input.
37	X4M/16M_I	I	DRAM size selection terminal (OPEN).
38	CM PON_I	I	ESP switch status detection input.
39	XTSB/PANA-HP	O	Not used (fixed at “L”) (OPEN).
40	HOLD_I	I	HOLD switch status detection input.
41	SEG15	O	Not used (OPEN).
42-55	SEG1-14	O	LCD segment output.
56	SEG0	O	Not used (OPEN).
57-60	COM0-3	O	LCD common output.
61-63	V1-3	–	LCD driver booster.
64	C1	–	LCD driver booster.
65	C0	–	LCD driver booster.

**D-E350/E351/E351SR/E353/E355/E356CK**

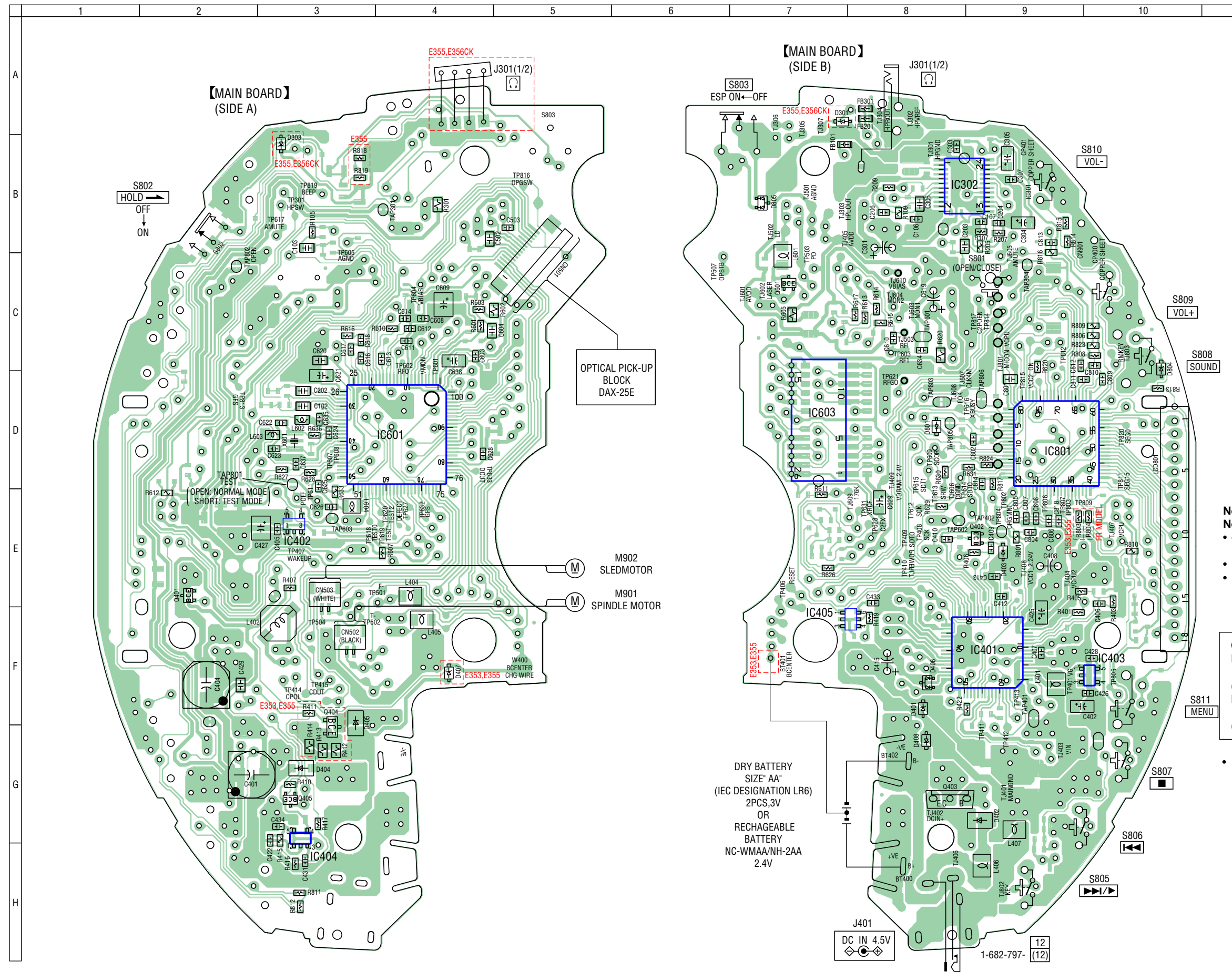
Pin No.	Pin name	I/O	Description
66	XWAKEUP_O	O	Wake-up signal output.
67	PGM STD0	–	Not used (OPEN).
68	PGMSI_I	–	Not used (OPEN).
69	PGMSCK_O	–	Not used (OPEN).
70	P13	O	Not used (OPEN).
71	GFS_I	I	Guard Frame Synchronous signal input.
72	ESPLT_O	O	ESP's serial interface latch output.
73	PGMSEL_O	–	Not used (OPEN).
74	AMUTE_O	O	Mute ON/OFF control output.
75	VCC2ON_O	O	Not used (OPEN).
76	XRST_O	O	System reset output.
77	XPOFF_O	O	DSP's power off output.
78	OPSTBY_O	O	Pick-up's power supply ON/OFF control.
79	OPG4[_O	O	RF IC's gain control.
80	C2POEN_O	O	C2PO enable.



## 5-2. BLOCK DIAGRAMS



5-3. PRINTED WIRING BOARDS



• Semiconductor Location

Ref. No.	Location
D301	A-7
D303	B-3
D401	F-8
D402	G-9
D403	E-9
D404	G-3
D405	F-3
D406	F-8
D407	F-4
D408	G-8
D801	D-8
D804	C-10
D805	B-7
IC302	B-8
IC401	F-9
IC402	E-3
IC403	F-10
IC404	G-3
IC405	F-7
IC601	D-4
IC603	D-7
IC801	D-9
Q401	E-2
Q402	E-9
Q403	G-8
Q404	F-3
Q405	G-3
Q601	C-7

Note on Printed Wiring Boards:  
Note:

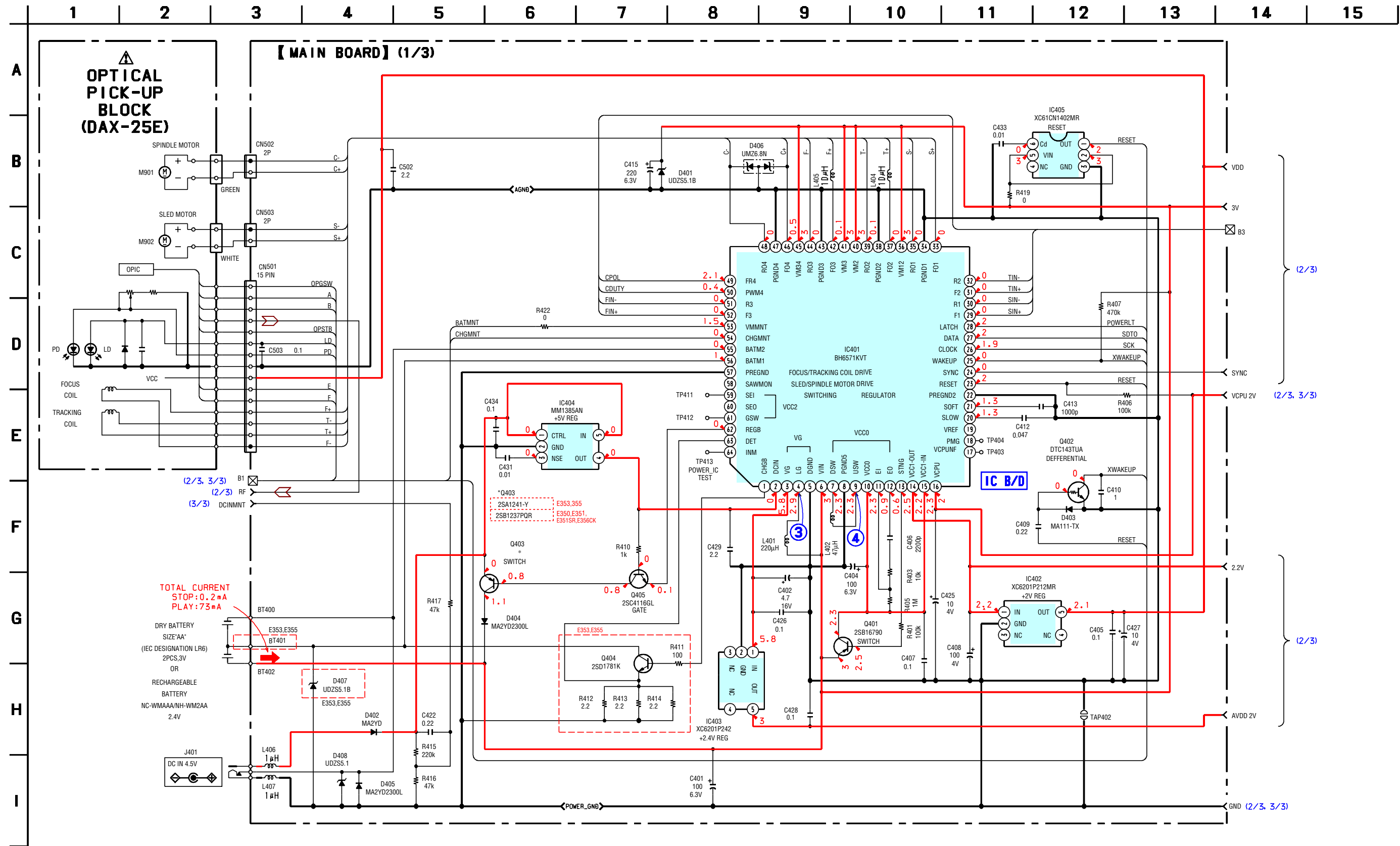
- : parts extracted from the component side.
- : Through hole.
- : Pattern from the side which enables seeing.  
(The other layers' patterns are not indicated.)

Caution:  
Pattern face side : Parts on the pattern face side seen from the pattern face are indicated.  
(Side B)  
Parts face side : Parts on the parts face side seen from the parts face are indicated.  
(Side A)

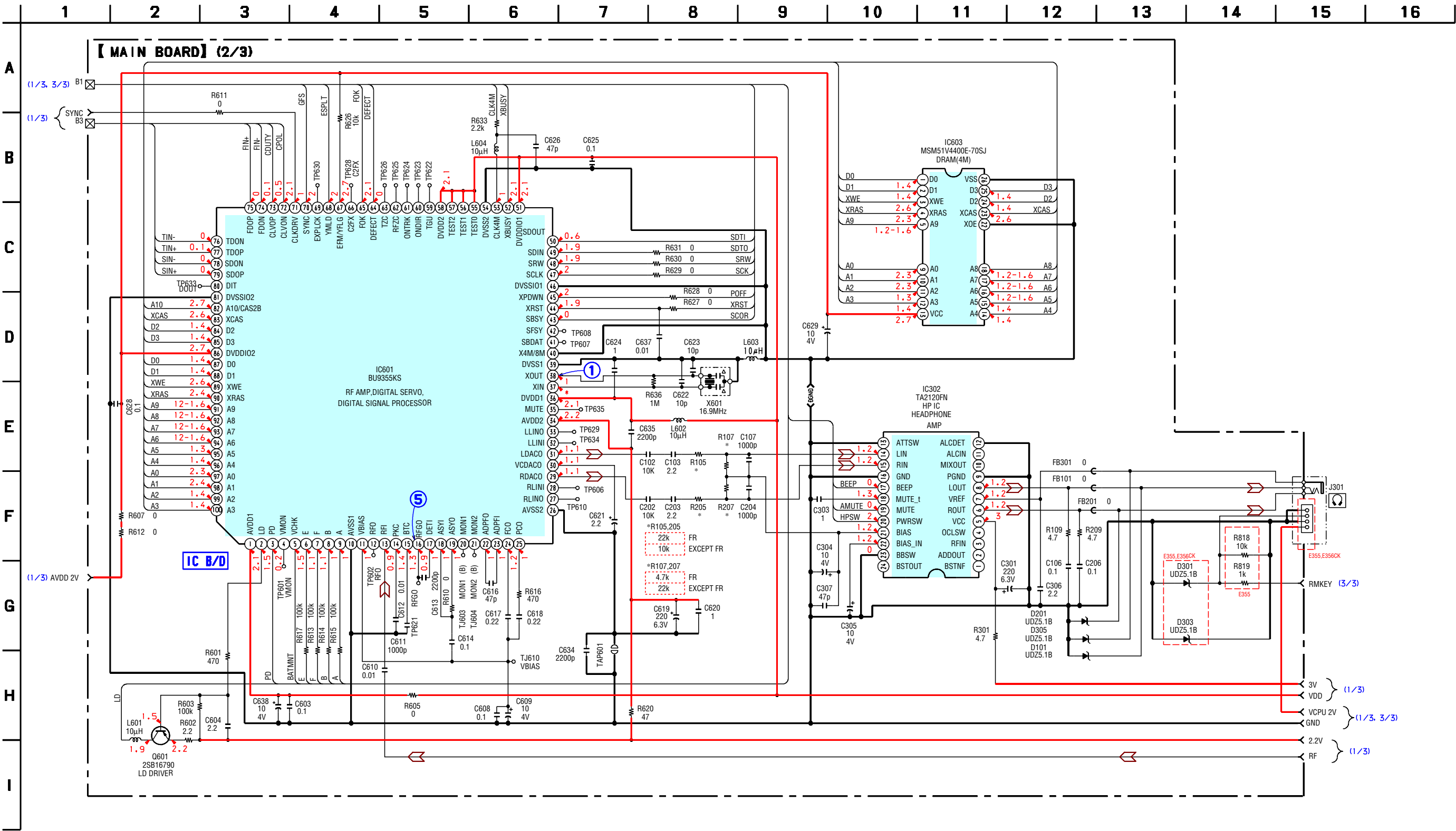
- Abbreviation  
AUS : Australian  
CND : Canadian  
FR : French  
HK : Hong Kong  
AR : Argentina  
EA : Saudi Arabia  
CH : Chinese  
EE : East European  
TW : Taiwan  
MX : Mexico  
KR : Korean  
C&SA : Central and South America  
E13 : AC220-230V area model  
E33 : AC100-240V area model

**5-4. SCHEMATIC DIAGRAM – MAIN SECTION (1/3) –**

- Refer to page 14 for Notes.
- Refer to page 14 for waveforms.
- Refer to page 15 IC for Block Diagrams.

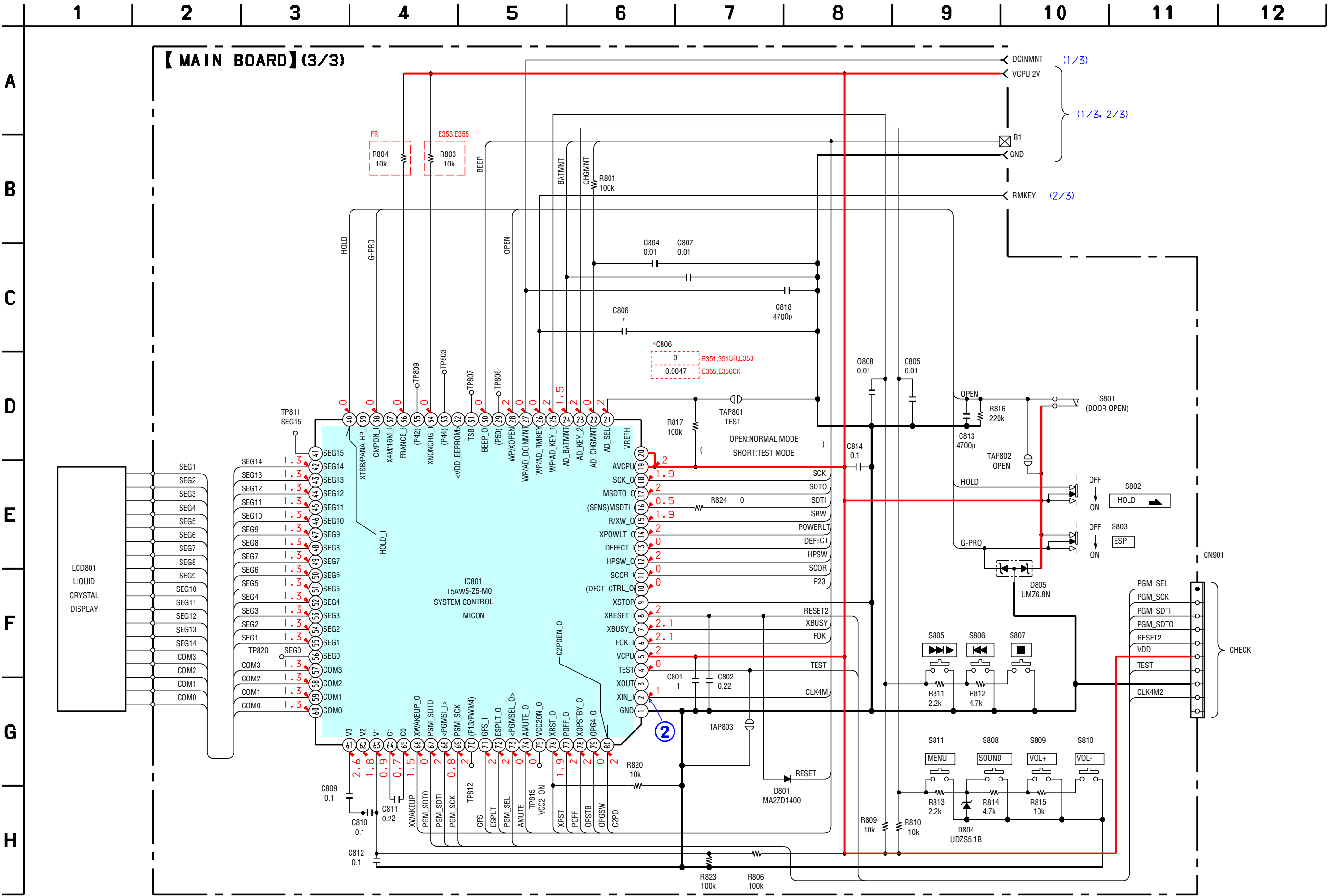


5-5. SCHEMATIC DIAGRAM – MAIN SECTION (2/3) – • Refer to page 14 for Notes. • Refer to page 14 for waveforms.

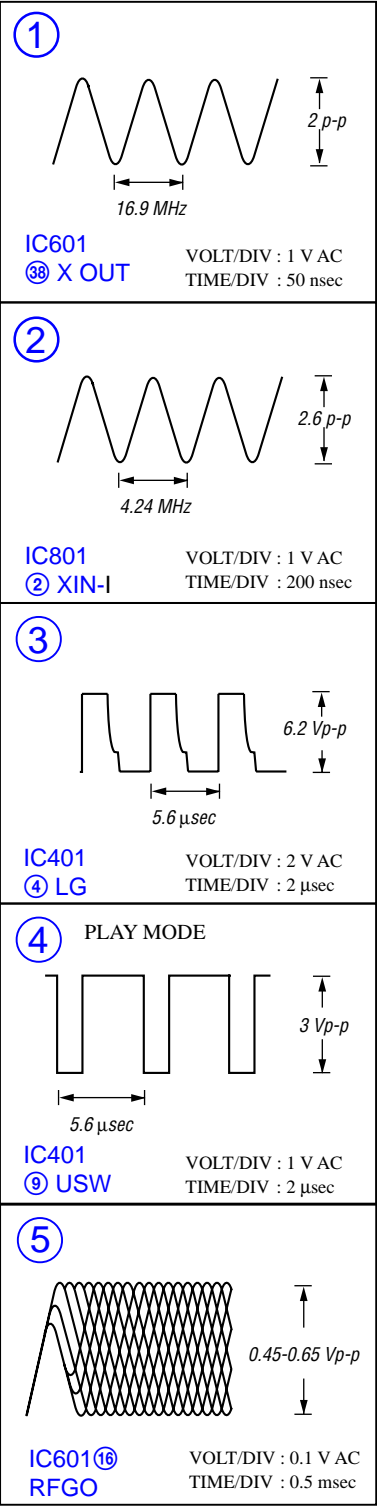




5-6. SCHEMATIC DIAGRAM – MAIN SECTION (3/3) – • Refer to page 14 for Notes. • Refer to page 14 for waveforms.



● Waveforms



- Note:**
- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
  - All resistors are in  $\Omega$  and  $\frac{1}{4}$  W or less unless otherwise specified.
  - $\triangle$  : internal component.

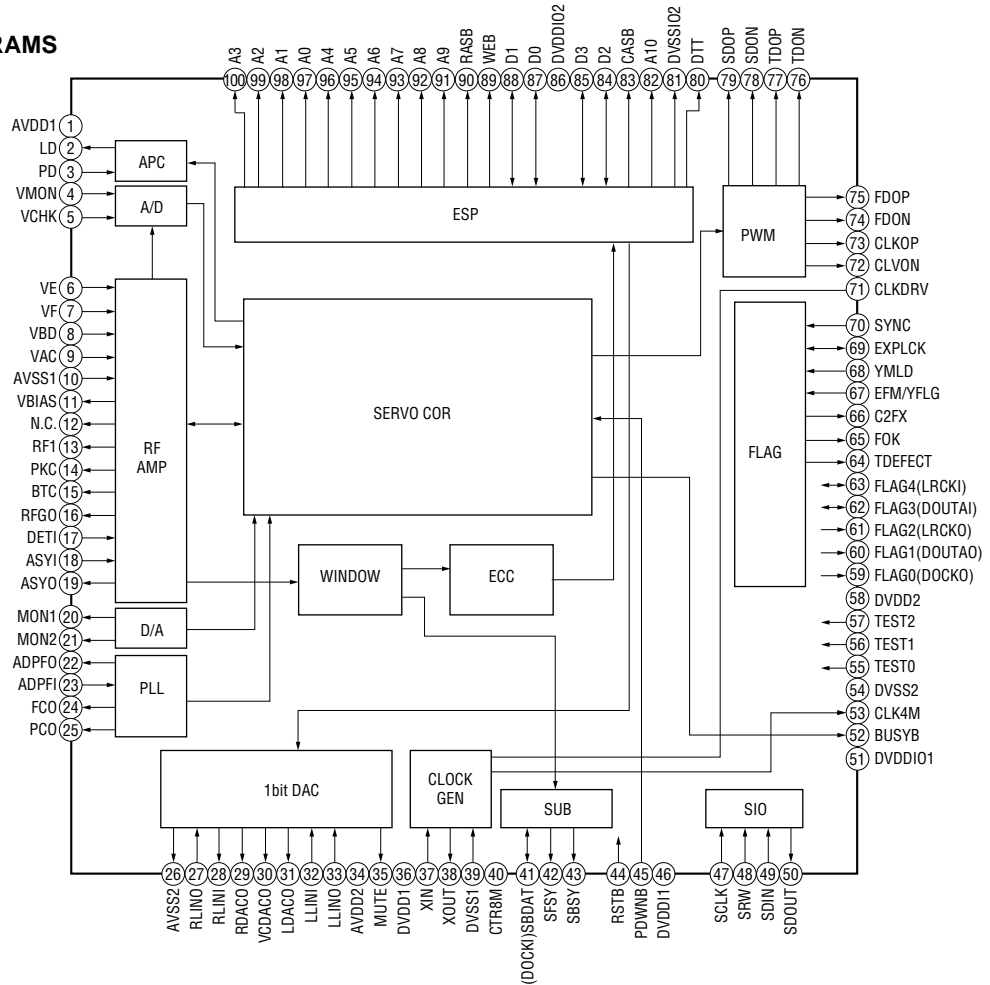
<b>Note:</b> The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.	<b>Note:</b> Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
---	---

- : B+ Line.
- Power voltage is dc 3 V and fed with regulated dc power supply from battery terminal.
- Voltages are dc with respect to ground under no-signal conditions. no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.  
 : CD PLAY

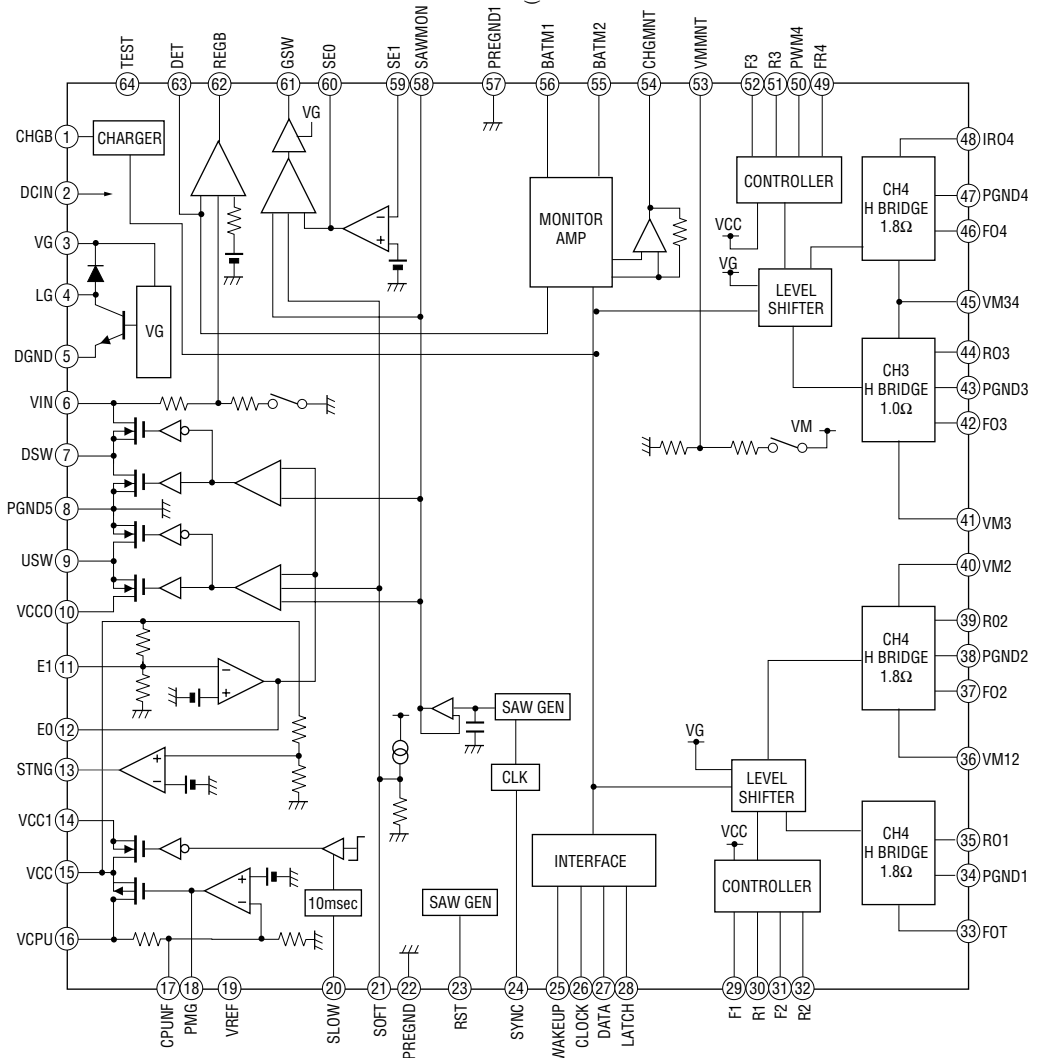
- Abbreviation
  - AUS : Australian
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  - C&SA : Central and South America
  - E13 : AC220-230V area model
  - E33 : AC100-240V area model
  - CND : Canadian
  - HK : Hong Kong
  - EA : Saudi Arabia
  - EE : East European
  - MX : Mexico

● IC BLOCK DIAGRAMS

IC601 BU9355KV



IC401 BH6571KVT



## SECTION 6

### EXPLODED VIEWS

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

↑

•••



↑


Parts color      Cabinet's color
- 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.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
 

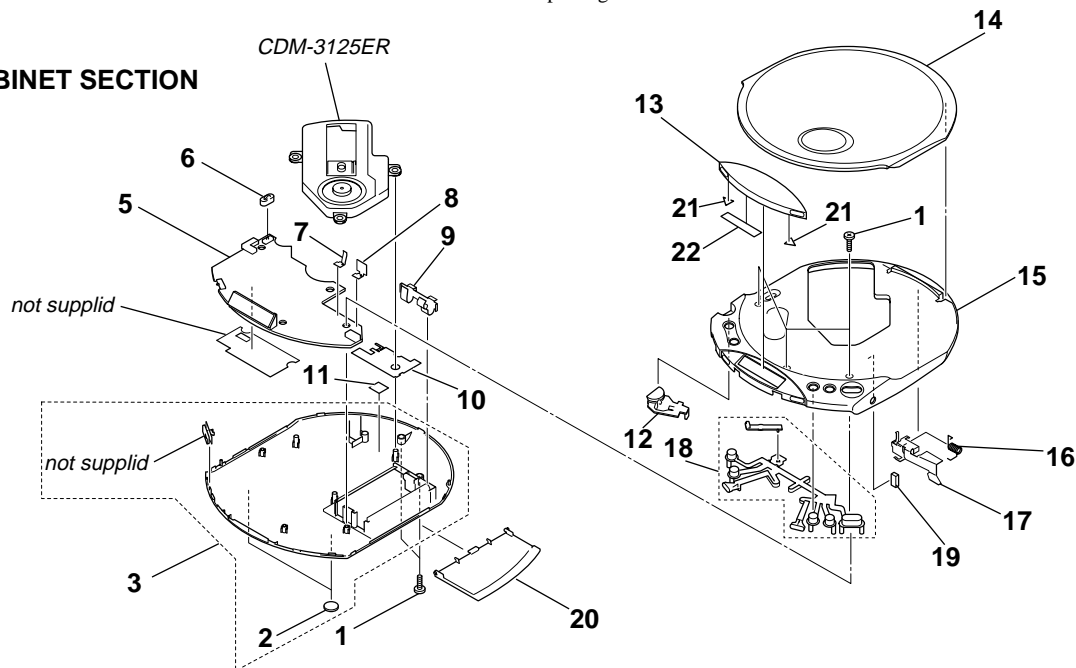
AUS	: Australian	CND	: Canadian
FR	: French	HK	: Hong Kong
AR	: Argentina	EA	: Saudi Arabia
CH	: Chinese	EE	: East European
TW	: Taiwan	MX	: Mexican
KR	: Korean		
CAEP	: Clam shell package		

E92 : Central and South America  
E13 : AC220-230V area model  
E33 : AC100-240V area 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.

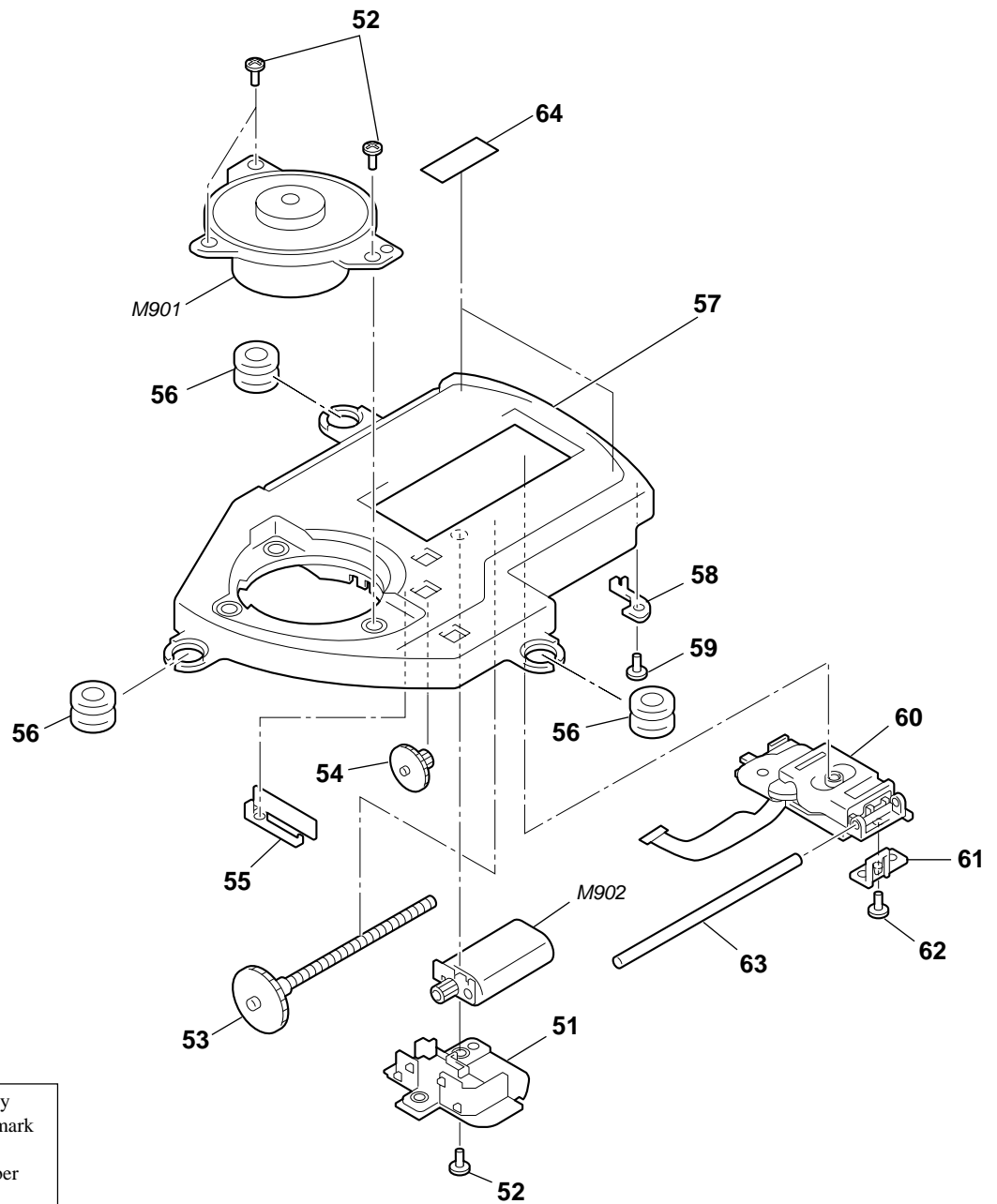
## 6-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-336-395-01	SCREW (B2X10) (G), TAPPING		14	X-3381-505-1	LID ASSY, UPPER (E351)...(BLUE)	
2	4-974-607-21	FOOT, RUBBER		14	X-3381-506-1	LID ASSY, UPPER (E353)...(SILVER)	
3	X-3379-859-4	CABINET (REAR) ASSY		14	X-3381-507-1	LID ASSY, UPPER (E356CK)...(SILVER)	
* 5	A-3021-693-A	MAIN PC BOARD ASSY (E355)		14	X-3381-508-1	LID ASSY, UPPER (E355)...(SILVER)	
* 5	A-3021-694-A	MAIN PC BOARD ASSY (E353)		14	X-3381-509-1	LID ASSY, UPPER (E355)...(BLUE)	
* 5	A-3021-696-A	MAIN PC BOARD ASSY (E350:FR/E351:FR)		14	X-3381-510-1	LID ASSY, UPPER (E351SR)...(SILVER)	
* 5	A-3021-697-A	MAIN PC BOARD ASSY (E350:EXCEPT FR/ E351:EXCEPT FR/E351SR/E356CK EXCEPT US)		14	X-3381-511-1	LID ASSY, UPPER (E350:US)...(RED)	
* 5	A-3021-787-A	MAIN PC BOARD ASSY (E356CK:US)		14	X-3381-512-1	LID ASSY, UPPER (E350:US)...(DARK BLUE)	
6	3-232-612-11	KNOB (JOGGABLE)		14	X-3381-513-1	LID ASSY, UPPER (E350:US)...(ORANGE)	
7	3-231-411-01	TERMINAL (-), BATTERY		14	X-3381-569-1	LID ASSY, UPPER (E351)...(BLACK)	
8	3-222-860-01	TERMINAL (+,-), BATTERY		15	3-231-621-61	CABINET (FRONT)...(SILVER)	
9	3-234-414-01	TERMINAL (LINK), BATTERY		15	3-231-621-71	CABINET (FRONT)...(BLUE)	
10	3-231-657-01	HOLDER (2) (SPRING) (E350:FR/E351SR)		15	3-231-621-81	CABINET (FRONT)...(RED)	
11	3-047-194-01	SHEET (CDM), ADHESIVE		15	3-231-621-91	CABINET (FRONT)...(DARK BLUE)	
12	3-231-620-01	BUTTON (OPEN)...(SILVER)		15	3-238-260-01	CABINET (FRONT)...(ORANGE)	
12	3-231-620-21	BUTTON (OPEN)...(RED)		15	3-238-260-11	CABINET (FRONT)...(BLACK)	
12	3-231-620-61	BUTTON (OPEN)...(BLUE)		16	3-222-862-01	SPRING (TORSION) (EXCEPT E350:FR)	
12	3-231-620-71	BUTTON (OPEN)...(BLACK)		17	3-229-481-01	PLATE (CABINET UPPER), SUPPORT (E350:FR/E351SR)	
12	3-231-620-81	BUTTON (OPEN)...(ORANGE)		17	3-231-469-01	PLATE, SUPPORT (EXCEPT E350:FR/E351SR)	
12	3-231-620-91	BUTTON (OPEN)...(DARK BLUE)		18	3-222-854-31	BUTTON (OPERATE)	
13	3-222-853-21	WINDOW (LCD)...(SILVER,BLUE,BLACK)		19	4-218-592-01	CUSHON	
13	3-222-853-51	WINDOW (LCD)...(RED,DARK BLUE,ORANGE)		20	3-222-856-12	LID, BATTERY CASE	
14	X-3381-502-1	LID ASSY, UPPER (E350)...(SILVER)		21	3-226-948-01	SHEET(2) (LCD WINDOW), ADHESIVE	
14	X-3381-503-1	LID ASSY, UPPER (E350)...(BLUE)		22	3-222-863-12	SHEET(1) (LCD WINDOW), ADHESIVE	
14	X-3381-504-1	LID ASSY, UPPER (E351)...(SILVER)					



6-2. OPTICAL PICK-UP SECTION  
(CDM-3125ER)



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.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-218-821-01	COVER, GEAR		59	3-686-458-03	SCREW (P1.4X3.5), TAPPING	
52	3-318-203-71	SCREW (B1.7X5), TAPPING		⚠ 60	X-3380-950-1	OPTICAL PICK-UP (DAX-25E)	
53	A-3052-902-A	FEED ASSY, SCREW		61	3-235-418-01	RACK	
54	4-218-823-01	GEAR (B)		62	3-348-998-81	SCREW (M1.4)	
55	4-218-825-01	SPRING, SLED		63	4-220-645-01	SHAFT, STANDARD	
56	4-222-765-01	INSULATOR		64	3-223-073-21	SPACER (A)	
57	3-235-420-01	CHASSIS		M901	A-3052-904-A	MOTOR ASSY, TURN TABLE (SPINDLE)	
58	4-218-827-01	RETAINER, SHAFT		M902	A-3328-627-A	MOTOR ASSY (SLED)(including GEAR)	

MAIN

SECTION 7  
ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS  
All resistors are in ohms  
METAL : Metal-film resistor  
METAL OXIDE :Metal oxide-film resistor  
F : nonflammable
- Items marked “ \* ”are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS  
In each case, u :  $\mu$  , for example :  
uA..... :  $\mu$  A..... , uPA..... :  $\mu$  PA.....  
uPB..... :  $\mu$  PB..... , uPC..... :  $\mu$  PC.....  
uPD..... :  $\mu$  PD.....
- CAPACITORS  
uF :  $\mu$  F
- COILS  
uH :  $\mu$  H
- Abbreviation  
CND : Canadian                    AUS : Australian  
FR : French                        HK : Hong Kong  
AR : Argentina                    JE : Tourist  
G : German                        EA : Saudi Arabia  
CH : Chinese                      EE : East European  
MX : Mexican                      KR : Korean  
CAEP : Clam shell package  
E92 : Central and South America  
E13 : AC220-230V area model  
E33 : AC100-240V area model

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

Les composants identifiés par une marque  $\Delta$  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.

Last digit:-12

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-3021-693-A	MAIN PC BOARD ASSY (E355)		C427	1-135-259-11	TANTAL. CHIP 10uF 20%	6.3V
*	A-3021-694-A	MAIN PC BOARD ASSY (E353)		C428	1-164-156-11	CERAMIC CHIP 0.1uF	25V
*	A-3021-696-A	MAIN PC BOARD ASSY (E350:FR/E351:FR)		C429	1-164-505-11	CERAMIC CHIP 2.2uF	16V
*	A-3021-697-A	MAIN PC BOARD ASSY (E350:EXCEPT FR/ E351:EXCEPT FR/E351SR/E356CK:EXCEPT US)		C431	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
*	A-3021-787-A	MAIN PC BOARD ASSY (E356CK:US)		C433	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
		*****		C434	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C502	1-164-505-11	CERAMIC CHIP 2.2uF	16V
	3-222-860-01	TERMINAL (+.-), BATTERY		C503	1-164-156-11	CERAMIC CHIP 0.1uF	25V
	3-231-411-01	TERMINAL (-), BATTERY		C603	1-164-156-11	CERAMIC CHIP 0.1uF	25V
	3-234-414-01	TERMINAL (LINK), BATTERY (E353/E355)		C604	1-164-505-11	CERAMIC CHIP 2.2uF	16V
	A-3174-291-A	TERMINAL, (LINK) SUB ASSY (E353/E355)		C608	1-164-156-11	CERAMIC CHIP 0.1uF	25V
		<CAPACITOR>		C609	1-135-259-11	TANTAL. CHIP 10uF 20%	6.3V
C102	1-216-833-11	METAL CHIP 10K 5%	1/16W	C610	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C103	1-164-505-11	CERAMIC CHIP 2.2uF	16V	C611	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C106	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C612	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C107	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C613	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C202	1-216-833-11	METAL CHIP 10K 5%	1/16W	C614	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C203	1-164-505-11	CERAMIC CHIP 2.2uF	16V	C616	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C204	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C617	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V
C206	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C618	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V
C301	1-126-369-11	ELECT 220uF 20%	6.3V	C619	1-126-369-11	ELECT 220uF 20%	6.3V
C303	1-115-156-11	CERAMIC CHIP 1uF	10V	C620	1-115-156-11	CERAMIC CHIP 1uF	10V
C304	1-135-259-11	TANTAL. CHIP 10uF 20%	6.3V	C621	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C305	1-135-259-11	TANTAL. CHIP 10uF 20%	6.3V	C622	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V
C306	1-164-505-11	CERAMIC CHIP 2.2uF	16V	C623	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V
C307	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	C624	1-115-156-11	CERAMIC CHIP 1uF	10V
C401	1-165-456-21	ELECT 100uF 20%	6.3V	C625	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C402	1-107-686-11	TANTAL. CHIP 4.7uF 20%	16V	C626	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C404	1-165-456-21	ELECT 100uF 20%	6.3V	C628	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C405	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C629	1-135-259-11	TANTAL. CHIP 10uF 20%	6.3V
C406	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V	C634	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C407	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C635	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C408	1-124-584-00	ELECT 100uF 20%	10V	C637	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C409	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V	C638	1-135-259-11	TANTAL. CHIP 10uF 20%	6.3V
C410	1-115-156-11	CERAMIC CHIP 1uF	10V	C801	1-115-156-11	CERAMIC CHIP 1uF	10V
C412	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V	C802	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V
C413	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C804	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C415	1-126-369-11	ELECT 220uF 20%	6.3V	C805	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C422	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V	C806	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C425	1-135-259-11	TANTAL. CHIP 10uF 20%	6.3V				(E355/E356CK)
C426	1-164-156-11	CERAMIC CHIP 0.1uF	25V				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C806	1-216-864-11	METAL CHIP	0 5% 1/16W (E350/E351/E351SR/E353)	L402	1-419-403-41	INDUCTOR	47uH
C807	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	L404	1-414-398-11	INDUCTOR	10uH
C808	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	L405	1-414-398-11	INDUCTOR	10uH
C809	1-164-156-11	CERAMIC CHIP	0.1uF 25V	L406	1-414-392-41	INDUCTOR	1uH
C810	1-164-156-11	CERAMIC CHIP	0.1uF 25V	L407	1-414-392-41	INDUCTOR	1uH
C811	1-115-467-11	CERAMIC CHIP	0.22uF 10% 10V	L601	1-469-967-21	INDUCTOR	10uH
C812	1-164-156-11	CERAMIC CHIP	0.1uF 25V	L602	1-469-570-21	INDUCTOR	10uH
C813	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	L603	1-469-570-21	INDUCTOR	10uH
C814	1-164-156-11	CERAMIC CHIP	0.1uF 25V	L604	1-469-570-21	INDUCTOR	10uH
C818	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	<LIQUID CRYSTAL DISPLAY>			
<CONNECTOR>				LCD801	1-804-248-11	DISPLAY PANEL, LIQUID CRYSTAL	
* CN501	1-816-237-21	CONNECTOR 15P		<TRANSISTOR>			
CN502	1-784-342-11	HOUSING, CONNECTOR 2P		Q401	8-729-054-79	TRANSISTOR	2SB167900LSO
CN503	1-784-342-21	HOUSING, CONNECTOR 2P		Q402	8-729-029-10	TRANSISTOR	DTC143TUA-T106
<DIODE>				Q403	6-550-069-01	TRANSISTOR	2SB1237PQR (E350/E351/ E351SR/E356CK)
D301	8-719-069-54	DIODE	UDZSTE17-5.1B(E355, E356CK)	Q403	8-729-052-27	TRANSISTOR	2SA1241-Y(LBSONY) (E353/ E355)
D303	8-719-069-54	DIODE	UDZSTE17-5.1B(E355, E356CK)	Q404	8-729-921-73	TRANSISTOR	2SD1781K-T146-QR (E353/ E355)
D401	8-719-069-54	DIODE	UDZSTE17-5.1B	Q405	8-729-231-74	TRANSISTOR	2SC4116-GL
D402	8-719-085-43	DIODE	MA2YD2300LSO	Q601	8-729-054-79	TRANSISTOR	2SB167900LSO
D403	8-719-988-61	DIODE	1SS355TE-17 (E353/E355)	<RESISTOR>			
D404	8-719-085-43	DIODE	MA2YD2300LSO	R105	1-216-833-11	METAL CHIP	10K 5% 1/16W (EXCEPT FR)
D405	8-719-085-43	DIODE	MA2YD2300LSO	R105	1-216-837-11	METAL CHIP	22K 5% 1/16W (FR)
D406	8-719-081-42	DIODE	UMZ6.8N-T106	R107	1-216-829-11	METAL CHIP	4.7K 5% 1/16W (FR)
D407	8-719-069-54	DIODE	UDZSTE17-5.1B(E353/E355)	R107	1-216-837-11	METAL CHIP	22K 5% 1/16W (EXCEPT FR)
D408	8-719-069-54	DIODE	UDZSTE17-5.1B(E353/E355)	R109	1-216-793-11	RES-CHIP	4.7 5% 1/10W
D801	8-719-072-70	DIODE	MA2ZD14001SO	R205	1-216-833-11	METAL CHIP	10K 5% 1/16W (EXCEPT FR)
D804	8-719-069-54	DIODE	UDZSTE17-5.1B(E353/E355)	R205	1-216-837-11	METAL CHIP	22K 5% 1/16W (FR)
D805	8-719-069-54	DIODE	UDZSTE17-5.1B(E353/E355)	R207	1-216-829-11	METAL CHIP	4.7K 5% 1/16W (FR)
<FERRITE BEAD>				R207	1-216-837-11	METAL CHIP	22K 5% 1/16W (EXCEPT FR)
FB101	1-500-234-11	FERRITE	OUH	R209	1-216-793-11	RES-CHIP	4.7 5% 1/10W
FB201	1-500-234-11	FERRITE	OUH	R301	1-216-308-00	METAL CHIP	4.7 5% 1/10W
FB301	1-500-234-11	FERRITE	OUH	R401	1-216-845-11	METAL CHIP	100K 5% 1/16W
<IC>				R403	1-216-833-11	METAL CHIP	10K 5% 1/16W
IC302	8-759-681-65	IC	TA2120FN(EL)	R405	1-216-857-11	METAL CHIP	1M 5% 1/16W
IC401	6-701-638-01	IC	BH6571KVT	R406	1-216-845-11	METAL CHIP	100K 5% 1/16W
IC402	6-701-639-01	IC	XC6201P212MR	R407	1-216-853-11	METAL CHIP	470K 5% 1/16W
IC403	6-701-031-01	IC	MSP3411G-QA-B10	R410	1-216-821-11	METAL CHIP	1K 5% 1/16W
IC404	6-701-882-01	IC	MM1385ANLE	R411	1-216-809-11	METAL CHIP	100 5% 1/16W (E353/E355)
IC405	8-759-827-34	IC	XC61CN1402MR	R412	1-216-298-00	METAL CHIP	2.2 5% 1/10W (E353/E355)
IC601	6-701-637-01	IC	BU9355KV	R413	1-216-298-00	METAL CHIP	2.2 5% 1/10W (E353/E355)
IC603	8-759-832-04	IC	MSM51V4400E-70SJ7FS1	R414	1-216-298-00	METAL CHIP	2.2 5% 1/10W (E353/E355)
IC801	6-801-020-01	IC	T5AW5-Z5-M0	<INDUCTOR>			
<JACK>				L401	1-414-406-41	INDUCTOR	220uH
J301	1-815-088-41	JACK, HEADPHONE (⌀) (E355/E356CK)					
J301	1-815-135-31	JACK, HEADPHONE (⌀) (EXCEPT E355, E356CK)					
J401	1-778-153-21	JACK,DC(POLARITY UNIFIED TYPE) (DC IN 4.5V)					

# D-E350/E351/E351SR/E353/E355/E356CK

Ver 1.1 2002.05

## MAIN

Ref. No.	Part No.	Description	Remark		
R415	1-216-849-11	METAL CHIP	220K	5%	1/16W
R416	1-216-841-11	METAL CHIP	47K	5%	1/16W
R417	1-216-841-11	METAL CHIP	47K	5%	1/16W
R419	1-216-864-11	METAL CHIP	0	5%	1/16W
R422	1-216-864-11	METAL CHIP	0	5%	1/16W
R601	1-216-817-11	METAL CHIP	470	5%	1/16W
R602	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R603	1-216-845-11	METAL CHIP	100K	5%	1/16W
R605	1-216-295-00	SHORT 0			
R607	1-216-864-11	METAL CHIP	0	5%	1/16W
R610	1-216-864-11	METAL CHIP	0	5%	1/16W
R611	1-216-864-11	METAL CHIP	0	5%	1/16W
R612	1-216-864-11	METAL CHIP	0	5%	1/16W
R613	1-216-845-11	METAL CHIP	100K	5%	1/16W
R614	1-216-845-11	METAL CHIP	100K	5%	1/16W
R615	1-216-845-11	METAL CHIP	100K	5%	1/16W
R616	1-216-817-11	METAL CHIP	470	5%	1/16W
R617	1-216-845-11	METAL CHIP	100K	5%	1/16W
R620	1-216-805-11	METAL CHIP	47	5%	1/16W
R626	1-216-833-11	METAL CHIP	10K	5%	1/16W
R627	1-216-864-11	METAL CHIP	0	5%	1/16W
R628	1-216-864-11	METAL CHIP	0	5%	1/16W
R629	1-216-864-11	METAL CHIP	0	5%	1/16W
R630	1-216-864-11	METAL CHIP	0	5%	1/16W
R631	1-216-864-11	METAL CHIP	0	5%	1/16W
R633	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R636	1-216-857-11	METAL CHIP	1M	5%	1/16W
R801	1-216-845-11	METAL CHIP	100K	5%	1/16W
R803	1-216-833-11	METAL CHIP	10K	5%	1/16W (E353/E355)
R804	1-216-833-11	METAL CHIP	10K	5%	1/16W (FR)
R806	1-216-845-11	METAL CHIP	100K	5%	1/16W
R809	1-218-871-11	METAL CHIP	10K	1%	1/10W
R810	1-218-871-11	METAL CHIP	10K	1%	1/10W
R811	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R812	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R813	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R814	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R815	1-216-833-11	METAL CHIP	10K	5%	1/16W
R816	1-216-849-11	METAL CHIP	220K	5%	1/16W
R817	1-216-845-11	METAL CHIP	100K	5%	1/16W
R818	1-218-871-11	METAL CHIP	10K	1%	1/10W (E355)
R819	1-216-821-11	METAL CHIP	1K	5%	1/16W (E355)
R820	1-216-833-11	METAL CHIP	10K	5%	1/16W
R823	1-216-845-11	METAL CHIP	100K	5%	1/16W
R824	1-216-864-11	METAL CHIP	0	5%	1/16W
		<SWITCH>			
S801	1-692-440-11	SWITCH, PUSH (DOOR OPEN)			
S802	1-762-078-11	SWITCH, SLIDE (HOLD→)			
S803	1-786-274-11	SWITCH, SLIDE (ESP)			
S805	1-786-050-21	SWITCH, KEY BOARD (▶▶▶▶)			
S806	1-786-050-21	SWITCH, KEY BOARD (◀◀◀◀)			
S807	1-786-050-21	SWITCH, KEY BOARD (■)			

Ref. No.	Part No.	Description	Remark
S808	1-786-276-11	SWITCH, PUSH (1 KEY) (SOUND)	
S809	1-786-050-21	SWITCH, KEY BOARD (VOL+)	
S810	1-786-050-21	SWITCH, KEY BOARD (VOL-)	
S811	1-786-276-11	SWITCH, PUSH (1 KEY) (MENU)	
		<VIBLATOR>	
X601	1-795-561-21	VIBRATOR, CERAMIC (16.9MHz)	
		*****	
		MISCELLANEOUS	
		*****	
△ 60	X-3380-950-1	OPTICAL PICK-UP (DAX-25E)	
M901	A-3052-904-A	MOTOR ASSY, TURN TABLE (SPINDLE)	
M902	A-3328-627-A	MOTOR ASSY (SLED)(including GEAR)	
		*****	
		ACCESSORIES	
		*****	
	1-251-696-11	CONNECTING PACK, CAR (E356CK)	
	1-251-824-21	CONNECTING PACK, CAR (CPA-7) (E356CK)	
△	1-467-550-26	ADAPTOR, AC (AC-E455A) (E351:EA)	
△	1-476-716-11	ADAPTOR, AC (AC-E455) (E351:E33)	
△	1-477-140-11	ADAPTOR, AC (AC-ES455) (E355:KR)	
△	1-476-845-11	ADAPTOR, AC (AC-ES455) (E351:AEP,CAEP,E13,EE,FR/E351SR:AEP/E353: AEP/E355:E13/E356CK:AEP)	
△	1-476-846-11	ADAPTOR, AC (AC-ES455) (E355:HK)	
△	1-476-847-11	ADAPTOR, AC (AC-ES455) (E355:CH)	
△	1-476-848-11	ADAPTOR, AC (AC-ES455) (E351:UK/E356CK:UK)	
△	1-476-849-11	ADAPTOR, AC (AC-ES455) (E351:AR)	
△	1-476-850-11	ADAPTOR, AC (AC-ES455) (E351:AUS/E356CK:AUS)	
△	1-476-851-11	ADAPTOR, AC (AC-ES455) (E351:MX/ E351SR:MX/E356CK:MX)	
	1-477-066-11	REMOTE CONTROL UNIT (E355)	
	1-477-067-11	COMMANDER, ROTARY (E356CK:US)	
△	1-477-136-11	ADAPTOR, AC (AC-ES454)(E351:CND,E92,TW/ E356CK:CND,E92,US)	
	1-542-496-11	HEAD PHONE (MDR-G051LP) (E350:US,CND)	
△	1-569-007-21	ADAPTOR, CONVERSION 2P (E351:EA)	
	1-756-158-51	BATTERY PACK (NC-WMAA) (E355)	
	1-756-158-61	BATTERY PACK (E353:AEP)	
	1-792-970-11	CORD, CAR BATTERY (DCC-E2455) (E356CK)	
	3-237-760-11	MANUAL, INSTRUCTION (SPANISH) (E350:AEP,CAEP/E351:AEP,AR,CAEP,E92,MX/E351SR/ E356CK:AEP,E92,MX)	
	3-237-760-21	MANUAL, INSTRUCTION (ENGLISH) (E350:CND,AEP,CAEP,E,EE/ E351: AEP,AR,AUS,CAEP,CND,E92,EA,EE,MX,UK, E351SR/E356CK:AEP,AUS,CND,E92,MX,UK)	
	3-237-760-31	MANUAL, INSTRUCTION (FRENCH) (E350:CND,AEP,CAEP,FR/E351:AEP,CAEP,CND, FR/E356CK:AEP,CND)	
	3-237-760-41	MANUAL, INSTRUCTION (DUTCH) (E350:AEP,CAEP,EE/E351:AEP,CAEP,EE/E356CK:AEP)	
	3-237-760-51	MANUAL, INSTRUCTION (SWEDISH) (E350:AEP,CAEP/E351:AEP,CAEP/E356CK:AEP)	
	3-237-760-61	MANUAL, INSTRUCTION (PORTUGUESE) (E350:EE/E351:EE)	
	3-237-760-71	MANUAL, INSTRUCTION (GERMAN) (E350:AEP,CAEP/E351:AEP,CAEP/E356CK:AEP)	
	3-237-760-81	MANUAL, INSTRUCTION (ITALIAN) (E350:AEP,CAEP/E351:AEP,CAEP/E356CK:AEP)	

<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>
	3-237-760-91	MANUAL, INSTRUCTION (FINNISH) (E350:AEP,CAEP/E351:AEP,CAEP/E356CK:AEP)			3-238-108-61	MANUAL, INSTRUCTION (PORTUGUESE) (E353)	
	3-237-761-11	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (E350:E/E351:E13,TW)			3-238-108-71	MANUAL, INSTRUCTION (GERMAN) (E353:AEP)	
	3-237-761-21	MANUAL, INSTRUCTION (ENGLISH) (E351:E13,TW)			3-238-108-81	MANUAL, INSTRUCTION (ITALIAN) (E353:AEP)	
	3-237-762-11	MANUAL, INSTRUCTION (RUSSIAN) (E350:EE/ E351:EE)			3-238-108-91	MANUAL, INSTRUCTION (FINNISH) (E353:AEP)	
	3-237-762-21	MANUAL, INSTRUCTION (CZECH) (E350:EE/ E351:EE)			3-238-109-11	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (E355:E13,HK)	
	3-237-762-31	MANUAL, INSTRUCTION (HUNGARIAN) (E350:EE/E351:EE)			3-238-109-21	MANUAL, INSTRUCTION (ENGLISH) (E355:CH,E13,HK)	
	3-237-762-41	MANUAL, INSTRUCTION (POLISH) (E350:AEP,CAEP/E351:AEP,CAEP,E92/ E356CK:AEP,E92)			3-238-109-31	MANUAL, INSTRUCTION (SIMPLIFIED CHINESE) (E355:CH)	
	3-237-762-51	MANUAL, INSTRUCTION (SLOVAK) (E350:EE/ E351:EE)			3-238-110-11	MANUAL, INSTRUCTION (KOREAN) (E355:KR)	
	3-237-762-61	MANUAL, INSTRUCTION (ENGLISH) (E350:US/ E356CK:US)			3-241-136-11	MANUAL, INSTRUCTION (E356CK:US)	
	3-238-108-11	MANUAL, INSTRUCTION (SPANISH) (E353)			8-954-007-92	RECEIVER, EAR MDR-027LP (E356CK:US)	
	3-238-108-21	MANUAL, INSTRUCTION (ENGLISH) (E353)			8-954-008-97	RECEIVER,EAR MDR-E808SP (E355)	
	3-238-108-31	MANUAL, INSTRUCTION (FRENCH) (E353:AEP)			8-954-008-93	RECEIVER,EAR MDR-E808LP (E350:AEP,CAEP,E,EE,FR/E351/ E351SR:AEP,MX/E353/ E356CK:AEP,AUS,CND,E92,MX,UK)	
	3-238-108-41	MANUAL, INSTRUCTION (DUTCH) (E353:AEP)			8-988-044-90	SPEAKER SYSTEM SRS-A5 (E351SR:AEP,MX)	
	3-238-108-51	MANUAL, INSTRUCTION (SWEDISH) (E353:AEP)					

MEMO

# D-E350/E351/E351SR/E353/E355/E356CK

**SONY**

## SERVICE MANUAL

2002.05

*US Model*

*D-E350/E356CK*

*Canadian Model*

*D-E350/E351/E356CK*

*AEP Model*

*D-E350/E351/E353/E351SR/E356CK*

*UK Model*

*Australian Model*

*D-E351/E356CK*

*E Model*

*D-E350/E351/E351SR/E353/E355/E356CK*

*Chinese Model*

*D-E355*

## SUPPLEMENT - 1

File this Supplement with the Service Manual.

Subject :

- CHANGE OF MAIN BOARD

(ECN-CDA01767/CDE01060)

## D-E350/E351/E351SR/E353/E355/E356CK

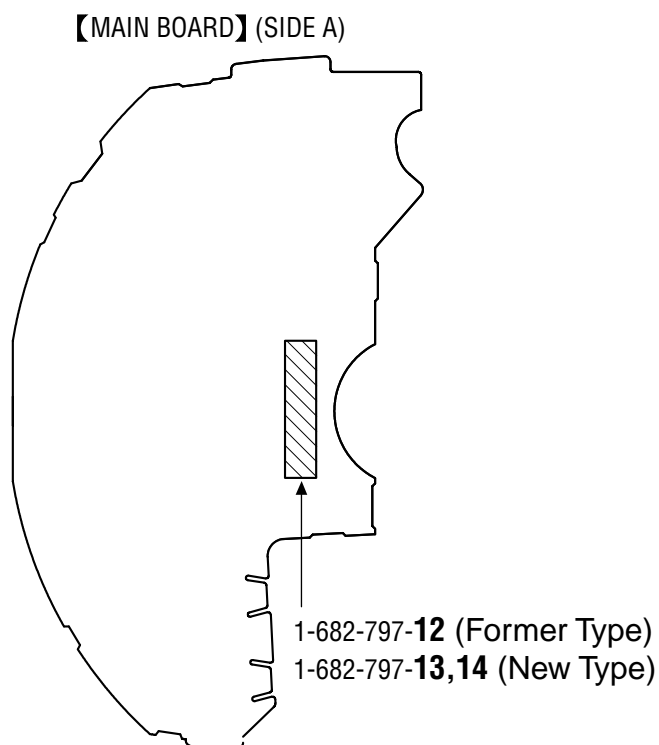
### ● CHANGE OF MAIN BOARD

The main board have been changed.

Printed wiring board,schematic diagram and electrical parts list of new type are described in this Supplement-1.

Refer to original service manual (9-873-479-01) previously issued for the other information.

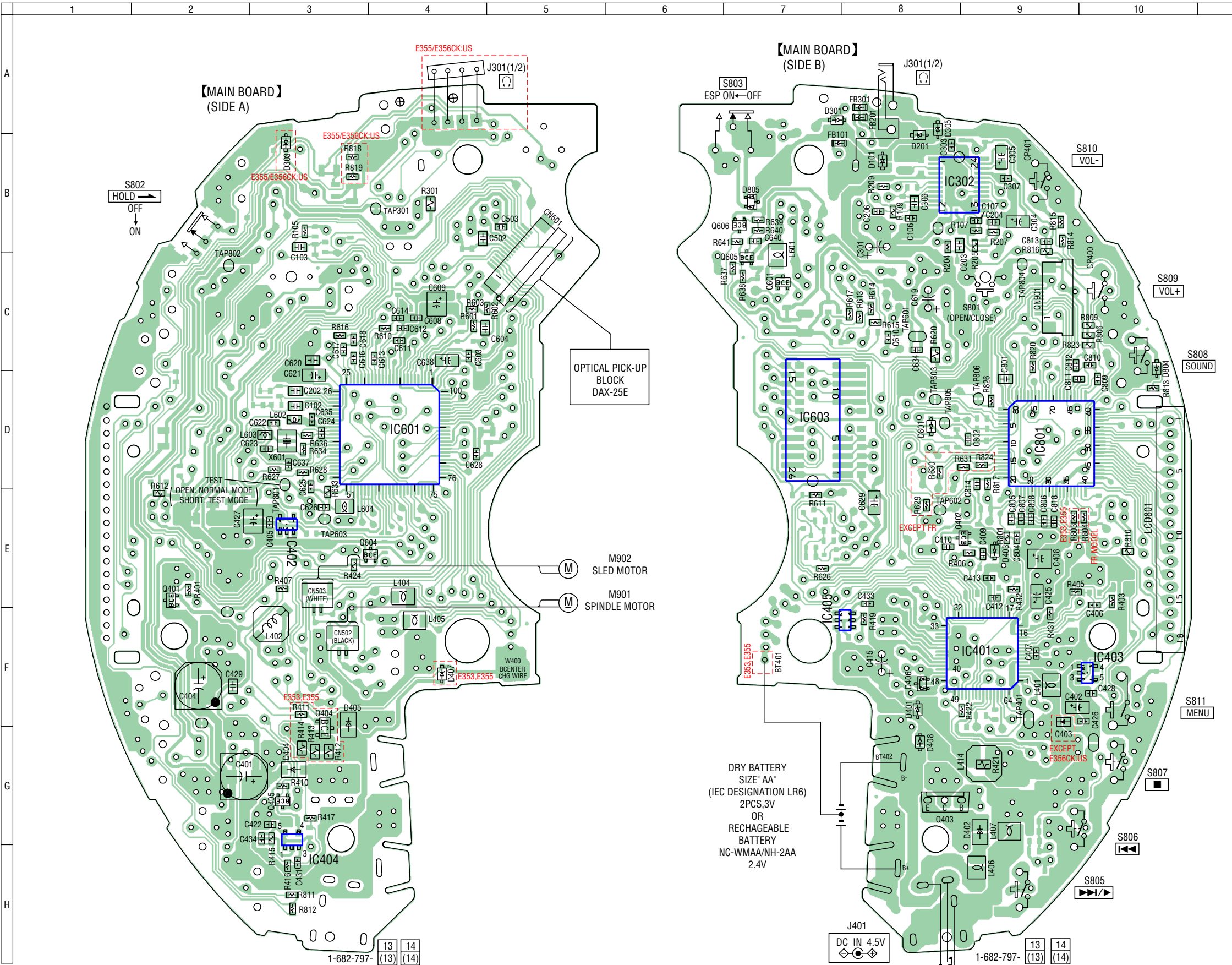
### NEW TYPE IDENTIFICATION





PRINTED WIRING BOARDS

Last digit:-13,-14



• Semiconductor Location

Ref. No.	Location
D101	A-8
D201	A-8
D301	A-7
D305	B-3
D401	A-8
D402	F-8
D403	G-9
D404	E-9
D405	G-3
D406	F-3
D407	F-8
D408	F-4
D801	G-8
D804	D-8
D805	C-10
IC302	B-8
IC401	F-9
IC402	E-3
IC403	F-10
IC404	G-3
IC405	F-7
IC601	D-4
IC603	D-7
IC801	D-9
Q401	E-2
Q402	E-9
Q403	G-8
Q404	F-3
Q405	G-3
Q601	C-7
Q604	E-3
Q605	B-7
Q606	B-7

Note on Printed Wiring Boards:

- Note:
- : parts extracted from the component side.
  - : Through hole.
  - : 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 side seen from the pattern face are indicated.

(Side B) pattern face are indicated.

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

(Side A)

- Abbreviation
- AUS : Australian
  - CND : Canadian
  - FR : French
  - HK : Hong Kong
  - AR : Argentina
  - EA : Saudi Arabia
  - CH : Chinese
  - EE : East European
  - TW : Taiwan
  - MX : Mexican
  - KR : Korean
  - C&SA : Central and South America
  - E13 : AC220-230V area model
  - E33 : AC100-240V area model

**SCHEMATIC DIAGRAM – MAIN SECTION (1/3) –**

**Last digit:-13,-14**

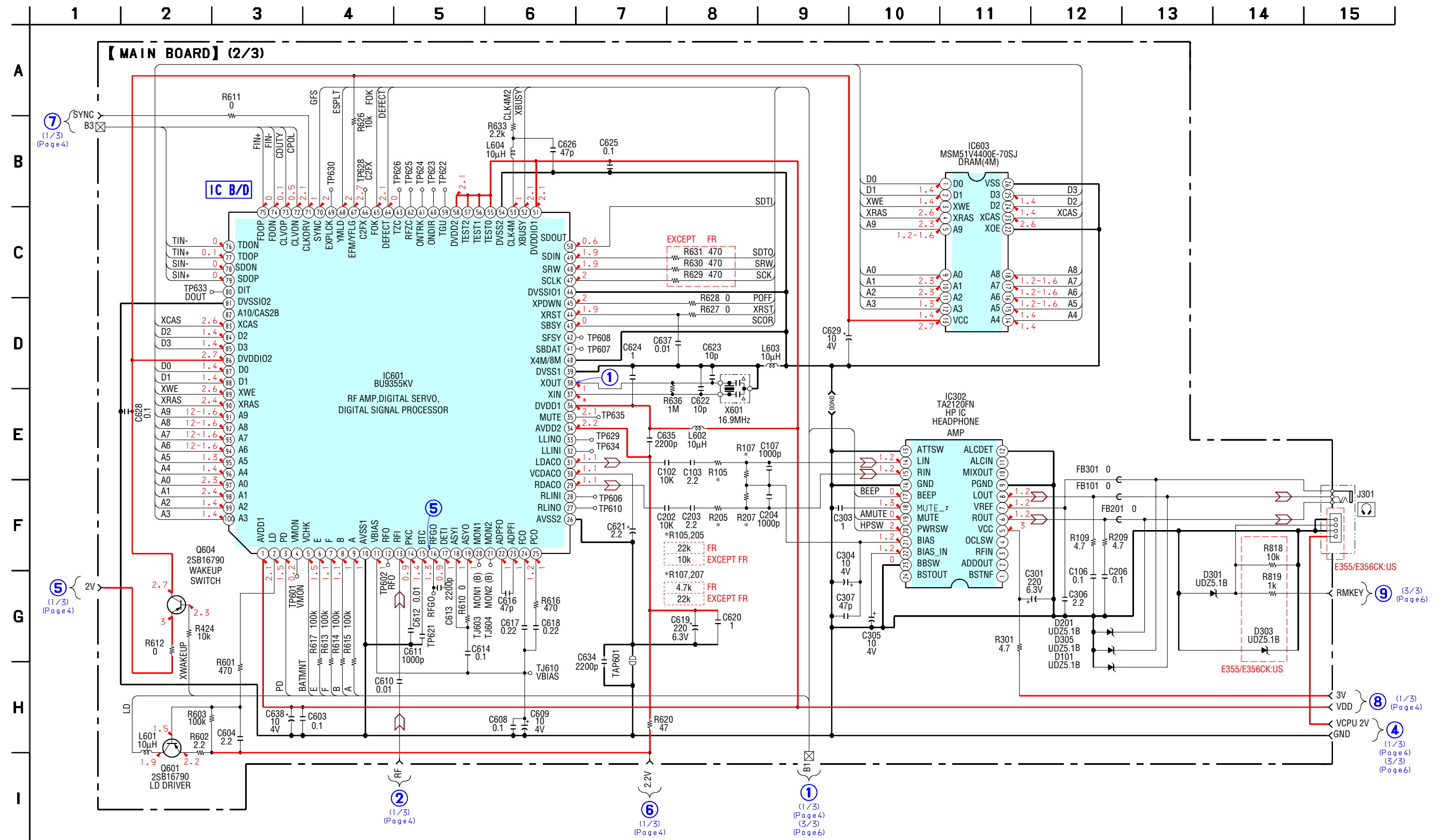
- Refer to Service Manual page 14 for Notes.
- Refer to Service Manual page 15 for IC Block diagrams.
- Refer to Service Manual page 14 for Waveforms.



**SCHEMATIC DIAGRAM – MAIN SECTION (2/3) –**

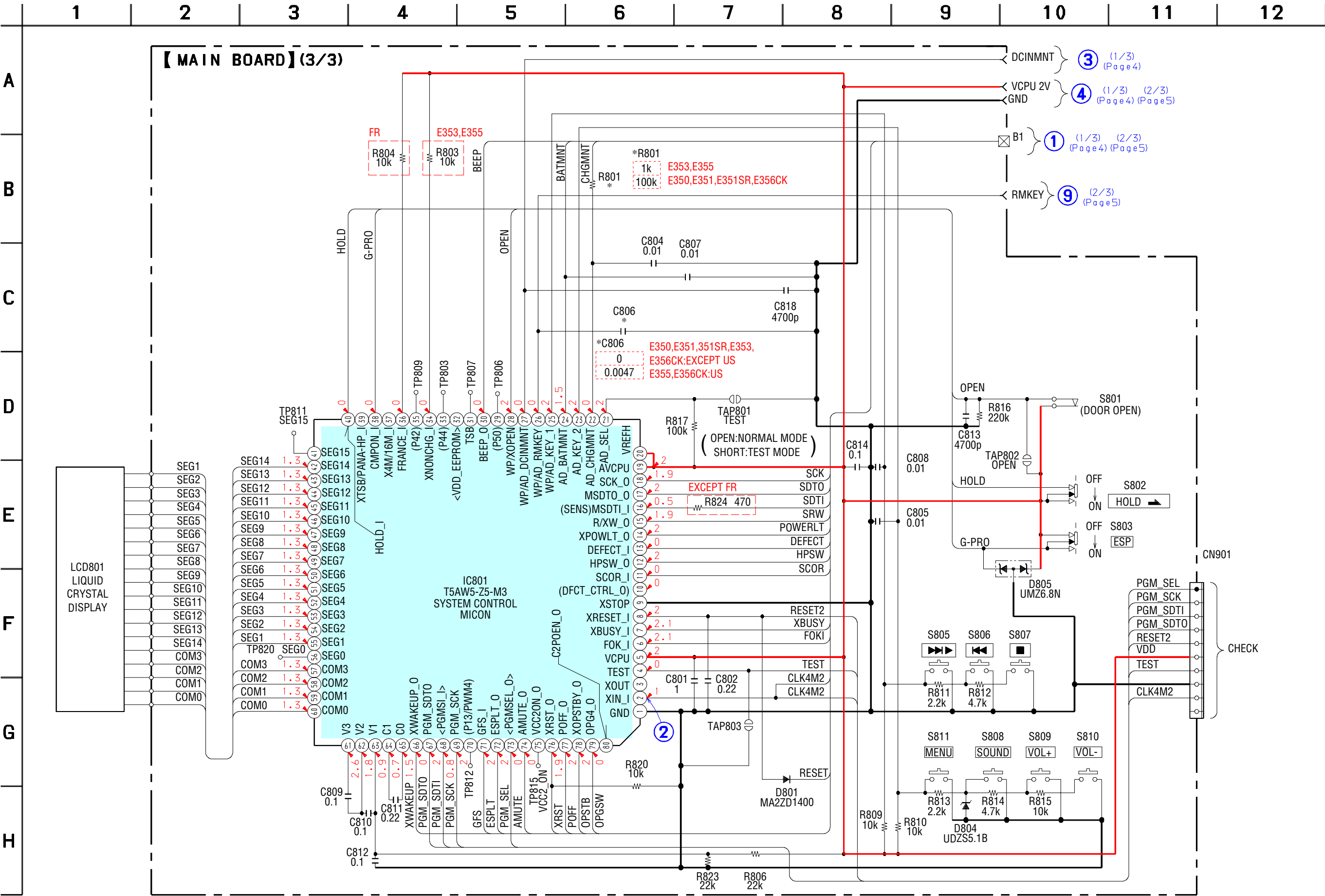
- Refer to Service Manual page 14 for Notes.
- Refer to Service Manual page 14 for Waveforms.

**Last digit:-13,-14**





Last digit:-13,-14



# D-E350/E351/E351SR/E353/E355/E356CK

## ELECTRICAL PARTS LIST

**MAIN**

### NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS  
All resistors are in ohms  
METAL : Metal-film resistor  
METAL OXIDE :Metal oxide-film resistor  
F : nonflammable
- Items marked “ \* ”are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS  
In each case, u :  $\mu$ , for example :  
uA.... :  $\mu$  A.... , uPA.... :  $\mu$  PA....  
uPB.... :  $\mu$  PB.... , uPC.... :  $\mu$  PC....  
uPD.... :  $\mu$  PD....
- CAPACITORS  
uF :  $\mu$  F
- COILS  
uH :  $\mu$  H
- Abbreviation  
FR : French

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

Les composants identifiés par une marque  $\Delta$  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.

### Last digit:-13,-14





Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-3021-693-A	MAIN BOARD, COMPLETE (E355)		C422	1-115-467-11	CERAMIC CHIP 0.22uF	10%
*	A-3021-694-A	MAIN BOARD, COMPLETE (E353)		C425	1-135-201-11	TANTALUM CHIP 10uF	20%
*	A-3021-696-A	MAIN BOARD, COMPLETE (E350:FR/E351:FR)		C426	1-164-156-11	CERAMIC CHIP 0.1uF	25V
*	A-3021-697-A	MAIN BOARD, COMPLETE (E350:EXCEPT FR/E351:EXCEPT FR/E351SR/E356CK:EXCEPT US)		C427	1-135-201-11	TANTALUM CHIP 10uF	20%
		*****		C428	1-164-156-11	CERAMIC CHIP 0.1uF	25V
*	A-3021-787-A	MAIN BOARD, COMPLETE (E356CK:US)		C429	1-164-505-11	CERAMIC CHIP 2.2uF	16V
		*****		C431	1-162-970-11	CERAMIC CHIP 0.01uF	10%
				C433	1-162-970-11	CERAMIC CHIP 0.01uF	10%
	3-222-860-01	TERMINAL (+,-), BATTERY					
	3-231-411-01	TERMINAL (-), BATTERY		C434	1-164-156-11	CERAMIC CHIP 0.1uF	25V
	3-234-414-01	TERMINAL (RELAY), BATTERY (E353/E355)		C502	1-164-505-11	CERAMIC CHIP 2.2uF	16V
	3-240-044-02	LEAF, COPPER (EXCEPT E356CK:US)		C503	1-164-156-11	CERAMIC CHIP 0.1uF	25V
	A-3174-291-A	TERMINAL, (LINK) SUB ASSY (E353/E355)		C603	1-164-156-11	CERAMIC CHIP 0.1uF	25V
		<CAPACITOR>		C604	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C102	1-216-833-11	METAL CHIP 10K 5%	1/16W	C608	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C103	1-164-505-11	CERAMIC CHIP 2.2uF	16V	C609	1-135-201-11	TANTALUM CHIP 10uF	20%
C106	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C610	1-162-970-11	CERAMIC CHIP 0.01uF	10%
C107	1-162-964-11	CERAMIC CHIP 0.001uF	10%	C611	1-162-964-11	CERAMIC CHIP 0.001uF	10%
C202	1-216-833-11	METAL CHIP 10K 5%	1/16W	C612	1-162-970-11	CERAMIC CHIP 0.01uF	10%
C203	1-164-505-11	CERAMIC CHIP 2.2uF	16V	C613	1-162-966-11	CERAMIC CHIP 0.0022uF	10%
C204	1-162-964-11	CERAMIC CHIP 0.001uF	10%	C614	1-107-826-11	CERAMIC CHIP 0.1uF	10%
C206	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C616	1-162-923-11	CERAMIC CHIP 47PF	5%
C301	1-126-369-11	ELECT 220uF	20%	C617	1-115-467-11	CERAMIC CHIP 0.22uF	10%
C303	1-115-156-11	CERAMIC CHIP 1uF	10V	C618	1-115-467-11	CERAMIC CHIP 0.22uF	10%
C304	1-135-201-11	TANTALUM CHIP 10uF	20%	C619	1-126-369-11	ELECT 220uF	20%
C305	1-135-201-11	TANTALUM CHIP 10uF	20%	C620	1-115-156-11	CERAMIC CHIP 1uF	10V
C306	1-164-505-11	CERAMIC CHIP 2.2uF	16V	C621	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C307	1-162-923-11	CERAMIC CHIP 47PF	5%	C622	1-162-915-11	CERAMIC CHIP 10PF	0.5PF
C401	1-165-456-21	ELECT 100uF	20%	C623	1-162-915-11	CERAMIC CHIP 10PF	0.5PF
C402	1-107-686-11	TANTAL. CHIP 4.7uF	20%	C624	1-115-156-11	CERAMIC CHIP 1uF	10V
C403	8-719-988-61	DIODE 1SS355TE-17 (EXCEPT E356CK:US)		C625	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C404	1-165-456-21	ELECT 100uF	20%	C626	1-162-923-11	CERAMIC CHIP 47PF	5%
C405	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C628	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C406	1-162-966-11	CERAMIC CHIP 0.0022uF	10%	C629	1-135-201-11	TANTALUM CHIP 10uF	20%
C407	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C634	1-162-966-11	CERAMIC CHIP 0.0022uF	10%
C408	1-110-569-21	TANTAL. CHIP 47uF	20%	C635	1-162-966-11	CERAMIC CHIP 0.0022uF	10%
C409	1-115-467-11	CERAMIC CHIP 0.22uF	10%	C637	1-162-970-11	CERAMIC CHIP 0.01uF	10%
C410	1-115-156-11	CERAMIC CHIP 1uF	10V	C638	1-135-201-11	TANTALUM CHIP 10uF	20%
C412	1-165-176-11	CERAMIC CHIP 0.047uF	10%	C640	1-125-837-91	CERAMIC CHIP 1uF	10%
C413	1-162-964-11	CERAMIC CHIP 0.001uF	10%	C801	1-115-156-11	CERAMIC CHIP 1uF	10V
C415	1-126-369-11	ELECT 220uF	20%	C802	1-115-467-11	CERAMIC CHIP 0.22uF	10%
				C804	1-162-970-11	CERAMIC CHIP 0.01uF	10%

# D-E350/E351/E351SR/E353/E355/E356CK

## MAIN

Ref. No.	Part No.	Description	Remark
C805	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C806	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V	
		(E355/E356CK:US)	
C806	1-216-864-11	METAL CHIP 0 5% 1/16W	
		(E350/E351/E351SR/E353/E356CK:EXCEPT US)	
C807	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C808	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C809	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C810	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C811	1-115-467-11	CERAMIC CHIP 0.22uF 10% 10V	
C812	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
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	
		<CONNECTOR>	
* CN501	1-816-237-21	CONNECTOR 15P	
CN502	1-784-342-11	HOUSING, CONNECTOR 2P	
CN503	1-784-342-21	HOUSING, CONNECTOR 2P	
		<DIODE>	
D101	8-719-069-54	DIODE UDZSTE-175.1B	
D201	8-719-069-54	DIODE UDZSTE-175.1B	
D301	8-719-069-54	DIODE UDZSTE-175.1B	
D303	8-719-069-54	DIODE UDZSTE-175.1B (E355/E356CK:US)	
D305	8-719-069-54	DIODE UDZSTE-175.1B	
D401	8-719-069-54	DIODE UDZSTE-175.1B	
D402	8-719-085-43	DIODE MA2YD2300LSO	
D403	8-719-404-50	DIODE MA111-TX	
D404	8-719-085-43	DIODE MA2YD2300LSO	
D405	8-719-085-43	DIODE MA2YD2300LSO	
D406	8-719-081-42	DIODE UMZ6.8N-T106	
D407	8-719-069-54	DIODE UDZSTE-175.1B (E353/E355)	
D408	8-719-069-54	DIODE UDZSTE-175.1B	
D801	8-719-072-70	DIODE MA2ZD14001S0	
D804	8-719-069-54	DIODE UDZSTE-175.1B	
D805	8-719-081-42	DIODE UMZ6.8N-T106	
		<FERRITE BEAD>	
FB101	1-500-234-22	FERRITE 0UH	
FB201	1-500-234-22	FERRITE 0UH	
FB301	1-500-234-22	FERRITE 0UH	
		<IC>	
IC302	8-759-681-65	IC TA2120FN(EL)	
IC401	6-701-638-01	IC BH6571KVT	
IC402	6-701-639-01	IC XC6201P212MR	
IC403	6-702-031-01	IC XC6201P242MR	
IC404	6-701-882-01	IC MM1385ANLE	
IC405	8-759-827-34	IC XC61CN1402MR	
IC601	6-701-637-01	IC BU9355KV	
IC603	8-759-832-04	IC MSM51V4400E-70SJ7FS1	
IC801	6-801-023-01	IC T5AW5-Z5-M3	
		<JACK>	
J301	1-815-088-41	JACK, HEADPHONE (㊤) (E355/E356CK:US)	

Ref. No.	Part No.	Description	Remark
J301	1-815-135-32	JACK, HEADPHONE (㊤)	
		(E350/E351/E351SR/E353/E356CK:EXCEPT US)	
J401	1-778-153-21	JACK,DC(POLARITY UNIFIED TYPE)	
		(DC IN 4.5V)	
		<INDUCTOR>	
L401	1-414-406-41	INDUCTOR 220uH	
L402	1-419-403-41	INDUCTOR 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	
L601	1-469-967-21	INDUCTOR 10uH	
L602	1-469-570-21	INDUCTOR 10uH	
L603	1-469-570-21	INDUCTOR 10uH	
L604	1-469-570-21	INDUCTOR 10uH	
		<LIQUID CRYSTAL DISPLAY>	
LCD801	1-804-248-11	DISPLAY PANEL, LIQUID CRYSTAL	
		<TRANSISTOR>	
Q401	8-729-054-79	TRANSISTOR 2SB167900LSO	
Q402	8-729-029-10	TRANSISTOR DTC143TUA-T106	
Q403	6-550-070-01	TRANSISTOR 2SB1237TV2PQR	
		(E350/E351/E351SR/E356CK)	
Q403	8-729-052-27	TRANSISTOR 2SA1241-Y(LBSONY)	
		(E353/E355)	
Q404	8-729-921-73	TRANSISTOR 2SD1781K-T146-QR	
		(E353/E355)	
Q405	8-729-231-74	TRANSISTOR 2SC4116-GL	
Q601	8-729-054-79	TRANSISTOR 2SB167900LSO	
Q604	8-729-054-79	TRANSISTOR 2SB167900LSO	
Q605	8-729-231-74	TRANSISTOR 2SC4116-GL	
Q606	8-729-054-79	TRANSISTOR 2SB167900LSO (EXCEPT FR)	
		<RESISTOR>	
R105	1-216-833-11	METAL CHIP 10K 5% 1/16W	
		(EXCEPT FR)	
R105	1-216-837-11	METAL CHIP 22K 5% 1/16W	
		(FR)	
R107	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
		(FR)	
R107	1-216-837-11	METAL CHIP 22K 5% 1/16W	
		(EXCEPT FR)	
R109	1-216-793-11	RES-CHIP 4.7 5% 1/10W	
R205	1-216-833-11	METAL CHIP 10K 5% 1/16W	
		(EXCEPT FR)	
R205	1-216-837-11	METAL CHIP 22K 5% 1/16W	
		(FR)	
R207	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
		(FR)	
R207	1-216-837-11	METAL CHIP 22K 5% 1/16W	
		(EXCEPT FR)	
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% 1/16W	
R403	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R405	1-216-857-11	METAL CHIP 1M 5% 1/16W	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R406	1-216-845-11	METAL CHIP	100K	5%	1/16W	R811	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R407	1-216-853-11	METAL CHIP	470K	5%	1/16W	R812	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R410	1-216-821-11	METAL CHIP	1K	5%	1/16W	R813	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R411	1-216-809-11	METAL CHIP	100	5%	1/16W	R814	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
					(E353/E355)	R815	1-216-833-11	METAL CHIP	10K	5%	1/16W
R412	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R816	1-216-849-11	METAL CHIP	220K	5%	1/16W
					(E353/E355)	R817	1-216-845-11	METAL CHIP	100K	5%	1/16W
R413	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R818	1-218-871-11	METAL CHIP	10K	1%	1/10W
					(E353/E355)						(E355/E356CK:US)
R414	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R819	1-216-821-11	METAL CHIP	1K	5%	1/16W
					(E353/E355)						(E355/E356CK:US)
R415	1-216-849-11	METAL CHIP	220K	5%	1/16W	R820	1-216-833-11	METAL CHIP	10K	5%	1/16W
R416	1-216-841-11	METAL CHIP	47K	5%	1/16W						
R417	1-216-841-11	METAL CHIP	47K	5%	1/16W	R823	1-216-837-11	METAL CHIP	22K	5%	1/16W
R419	1-216-864-11	METAL CHIP	0	5%	1/16W	R824	1-216-817-11	METAL CHIP	470	5%	1/16W
											(EXCEPT FR)
R422	1-216-864-11	METAL CHIP	0	5%	1/16W			<SWITCH>			
R424	1-216-833-11	METAL CHIP	10K	5%	1/16W	S801	1-762-003-11	SWITCH, PUSH (DOOR OPEN)			
R431	1-216-845-11	METAL CHIP	100K	5%	1/16W	S802	1-762-078-11	SWITCH, SLIDE (HOLD  )			
R601	1-216-817-11	METAL CHIP	470	5%	1/16W	S803	1-786-274-11	SWITCH, SLIDE (ESP)			
R602	1-216-789-11	METAL CHIP	2.2	5%	1/16W	S805	1-786-050-21	SWITCH, KEY BOARD (  )			
R603	1-216-845-11	METAL CHIP	100K	5%	1/16W	S806	1-786-050-21	SWITCH, KEY BOARD (  )			
R610	1-216-864-11	METAL CHIP	0	5%	1/16W						
R611	1-216-864-11	METAL CHIP	0	5%	1/16W	S807	1-786-050-21	SWITCH, KEY BOARD (  )			
R612	1-216-864-11	METAL CHIP	0	5%	1/16W	S808	1-786-276-11	SWITCH, PUSH (1 KEY) (SOUND)			
R613	1-216-845-11	METAL CHIP	100K	5%	1/16W	S809	1-786-050-21	SWITCH, KEY BOARD (VOL+)			
R614	1-216-845-11	METAL CHIP	100K	5%	1/16W	S810	1-786-050-21	SWITCH, KEY BOARD (VOL-)			
R615	1-216-845-11	METAL CHIP	100K	5%	1/16W	S811	1-786-276-11	SWITCH, PUSH (1 KEY) (MENU)			
R616	1-216-817-11	METAL CHIP	470	5%	1/16W			<VIBLATOR>			
R617	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R620	1-216-805-11	METAL CHIP	47	5%	1/16W	X601	1-795-561-21	VIBRATOR, CERAMIC (16.9MHz)			
											*****
R626	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R627	1-216-864-11	METAL CHIP	0	5%	1/16W						
R628	1-216-864-11	METAL CHIP	0	5%	1/16W						
R629	1-216-817-11	METAL CHIP	470	5%	1/16W						
					(EXCEPT FR)						
R630	1-216-817-11	METAL CHIP	470	5%	1/16W						
					(EXCEPT FR)						
R631	1-216-817-11	METAL CHIP	470	5%	1/16W						
					(EXCEPT FR)						
R633	1-216-825-11	METAL CHIP	2.2K	5%	1/16W						
R636	1-216-857-11	METAL CHIP	1M	5%	1/16W						
R637	1-216-837-11	METAL CHIP	22K	5%	1/16W						
R638	1-216-837-11	METAL CHIP	22K	5%	1/16W						
R639	1-216-837-11	METAL CHIP	22K	5%	1/16W						
R640	1-216-837-11	METAL CHIP	22K	5%	1/16W						
R641	1-216-837-11	METAL CHIP	22K	5%	1/16W						
R801	1-216-821-11	METAL CHIP	1K	5%	1/16W						
					(E353/E355)						
R801	1-216-845-11	METAL CHIP	100K	5%	1/16W						
					(E350/E351/E351SR/E356CK)						
R803	1-216-833-11	METAL CHIP	10K	5%	1/16W						
					(E353/E355)						
R804	1-216-833-11	METAL CHIP	10K	5%	1/16W						
					(FR)						
R806	1-216-837-11	METAL CHIP	22K	5%	1/16W						
R809	1-218-871-11	METAL CHIP	10K	1%	1/10W						
R810	1-218-871-11	METAL CHIP	10K	1%	1/10W						

MEMO



# D-E350/E351/E351SR/E353/E355/E356CK

**SONY**

## SERVICE MANUAL

2002.06

*US Model*

*D-E350/E356CK*

*Canadian Model*

*D-E350/E351/E356CK*

*AEP Model*

*D-E350/E351/E353/E351SR/E356CK*

*UK Model*

*Australian Model*

*D-E351/E356CK*

*E Model*

*D-E350/E351/E351SR/E353/E355/E356CK*

*Chinese Model*

*D-E355*

## SUPPLEMENT - 2

File this Supplement with the Service Manual.

Subject :

- CHANGE OF MAIN BOARD FOR D-E350 (US MODEL)

## D-E350/E351/E351SR/E353/E355/E356CK

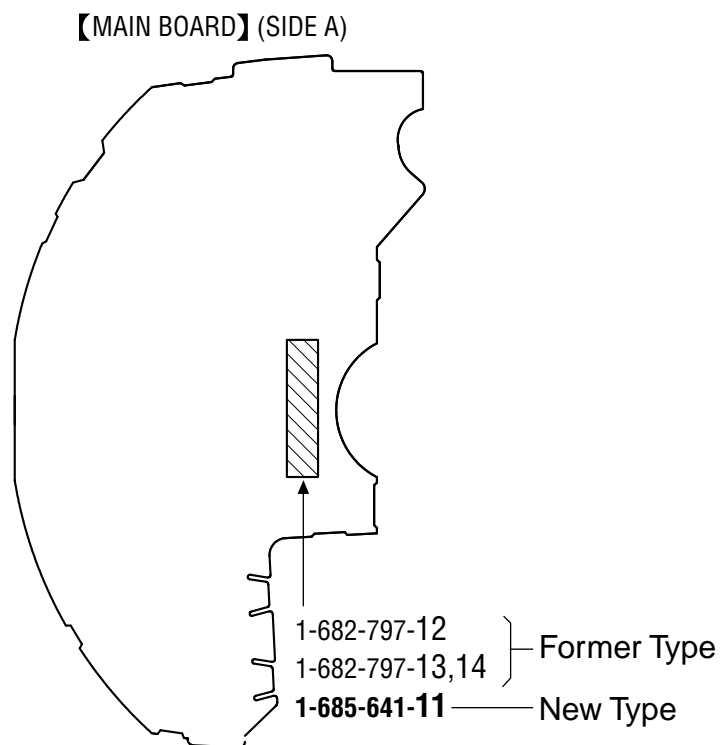
### ● MAIN BOARD CHANGE FOR D-E350 (US MODEL)

The main board of the D-E350 (US model) have been changed.

Printed wiring board, schematic diagram, exploded views and electrical parts list of cost reduction model are described in this Supplement-2.

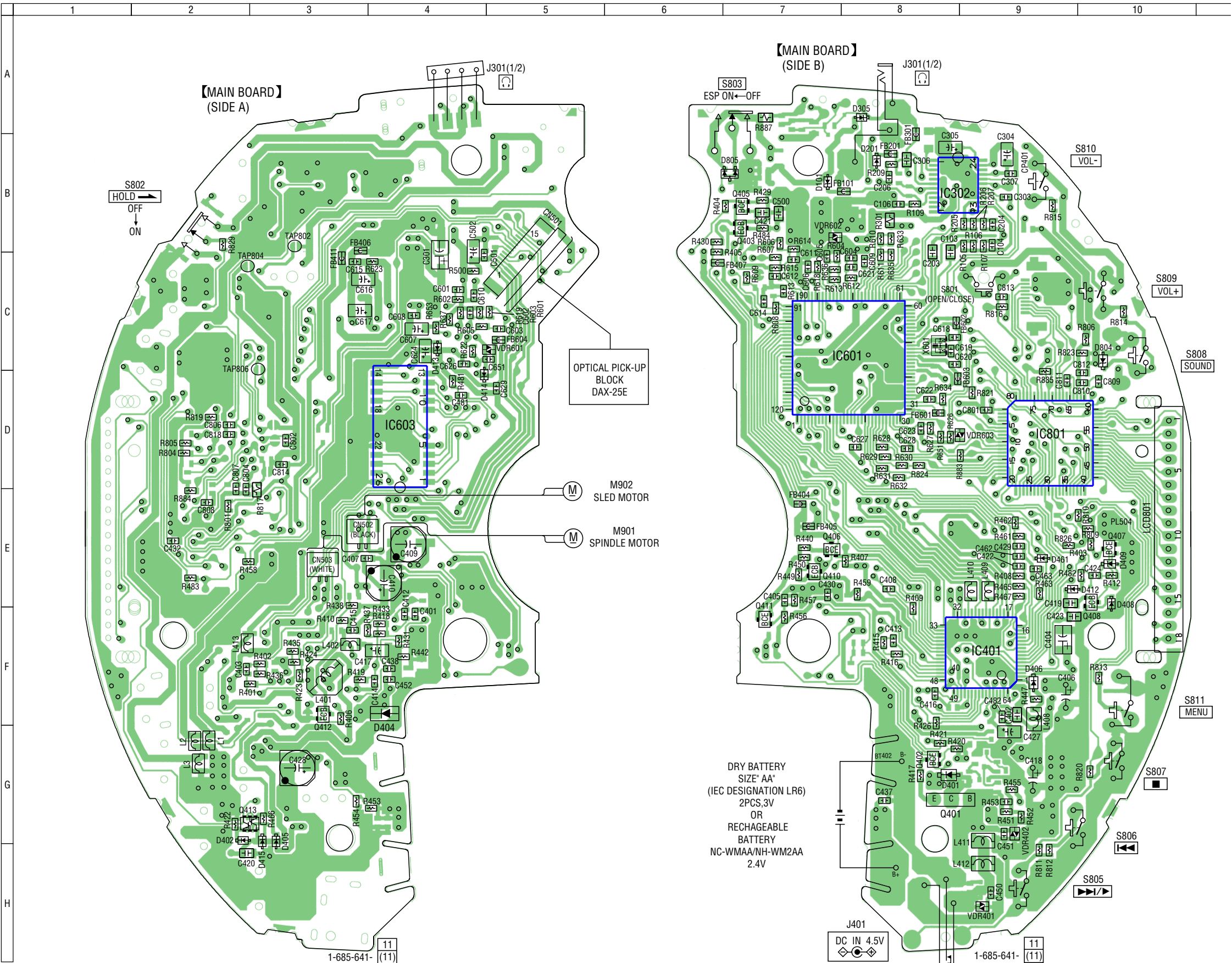
Refer to original service manual (9-873-479-01) previously issued for the other information.

### NEW TYPE IDENTIFICATION (D-E350 : US)



PRINTED WIRING BOARDS

New Type (D-E350 : US)



• Semiconductor Location

Ref. No.	Location
D101	B-7
D201	B-8
D305	A-8
D401	G-8
D402	G-2
D404	F-4
D405	G-3
D406	F-9
D408	E-10
D409	E-10
D412	E-9
D413	C-4
D414	D-4
D415	H-3
D461	E-9
D804	C-10
D805	B-7
IC302	B-8
IC401	F-9
IC601	C-7
IC603	D-4
IC801	D-9
Q401	G-8
Q402	G-8
Q403	B-7
Q405	B-7
Q406	E-7
Q407	E-10
Q408	E-10
Q410	E-7
Q411	F-7
Q412	F-3
Q413	G-2

Note:

- : parts extracted from the component side.
- : Through hole.
- ⋯ : 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.

(Side B)

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

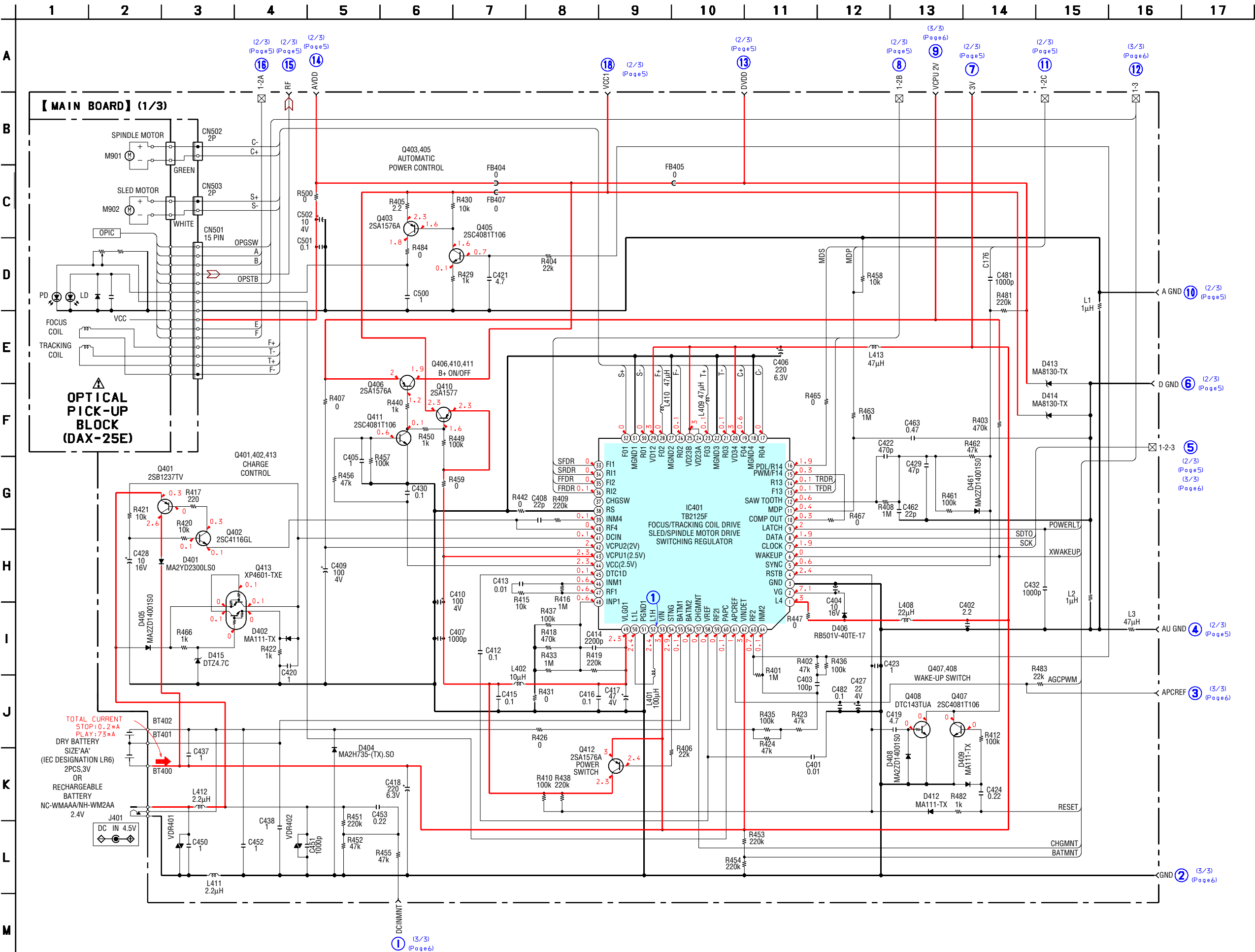
(Side A)

D-E350/E351/E351SR/E353/E355/E356CK

SCHEMATIC DIAGRAM – MAIN SECTION (1/3) –

- Refer to page 7 for Notes.
- Refer to page 7 for Waveforms.

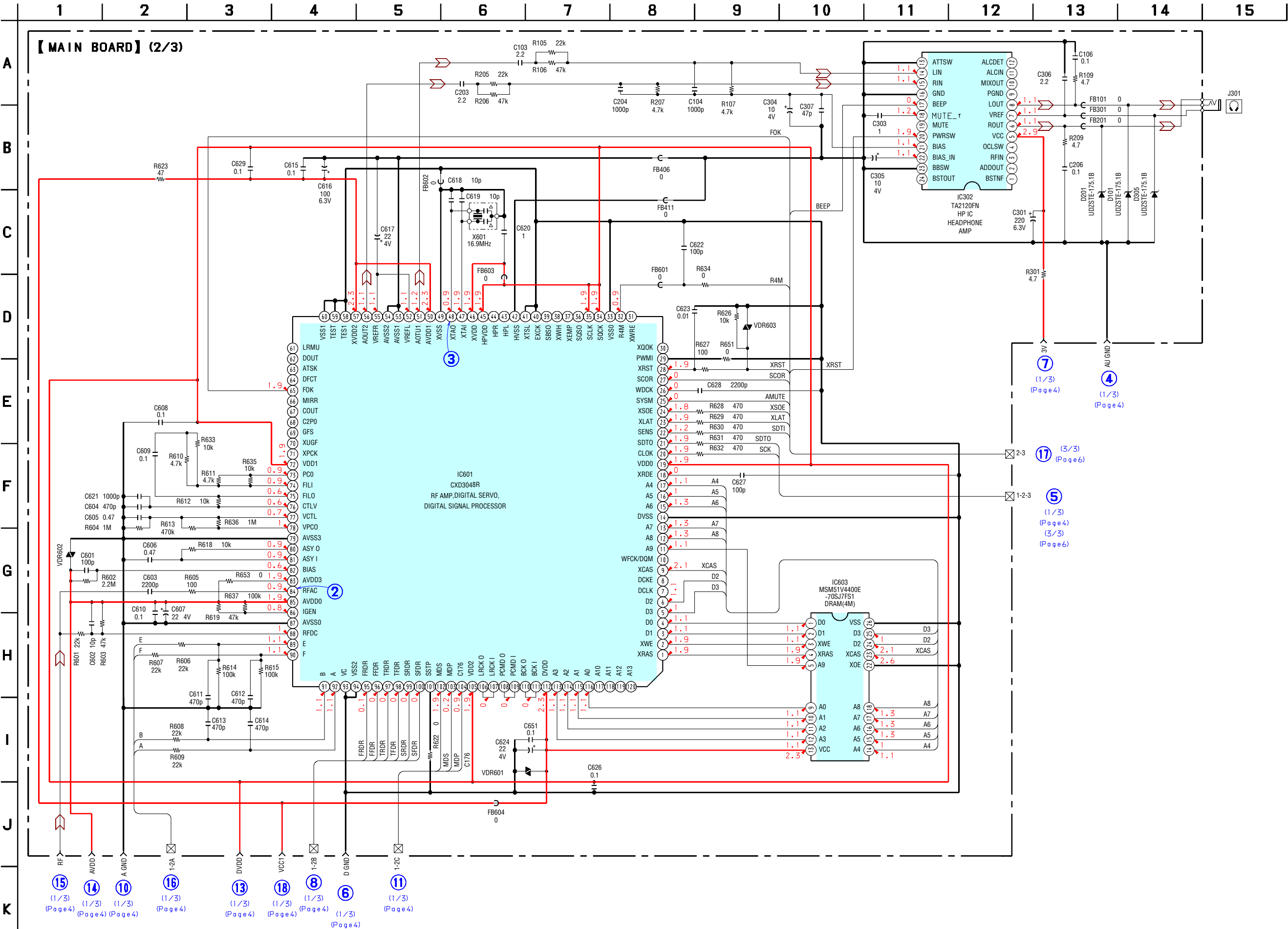
New Type (D-E350 : US)



SCHEMATIC DIAGRAM – MAIN SECTION (2/3) –

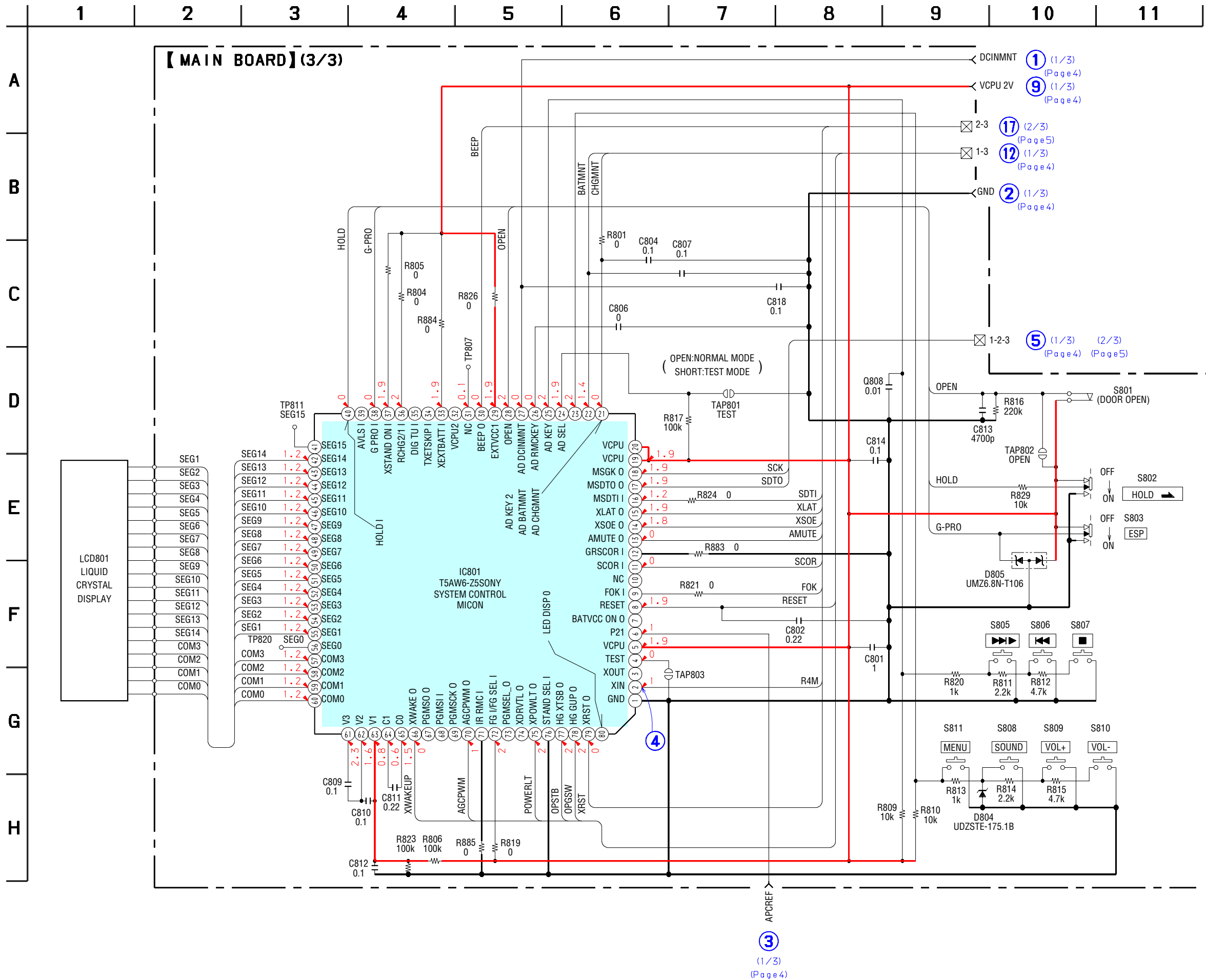
- Refer to page 7 for Notes.
- Refer to page 7 for Waveforms.

New Type (D-E350 : US)

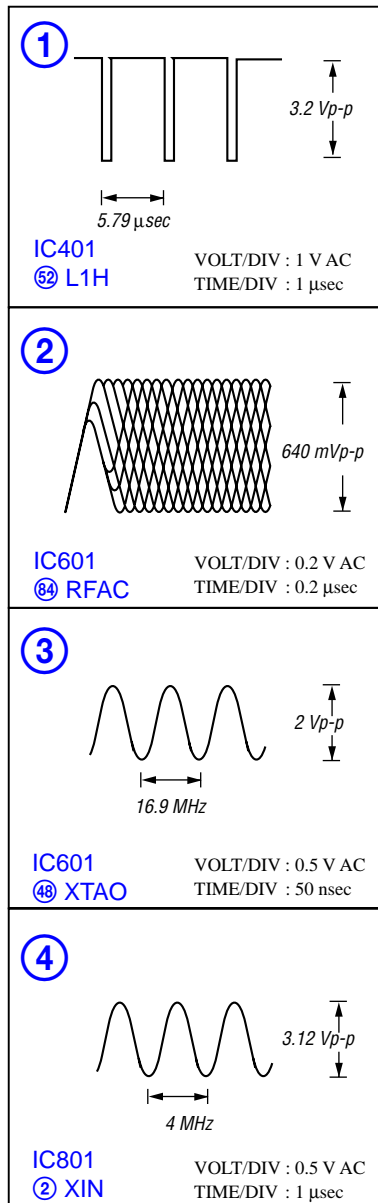




New Type (D-E350 : US)



## ● Waveforms



### Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
- $\Delta$  : internal component.

### Note:

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

### Note:

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

- — : B+ Line.
- Power voltage is dc 3 V and fed with regulated dc power supply from battery terminal.
- Voltages are dc with respect to ground under no-signal conditions. no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.

$\Sigma$  : CD PLAY

## EXPLODED VIEWS

NOTE :



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


↑

•••

↑

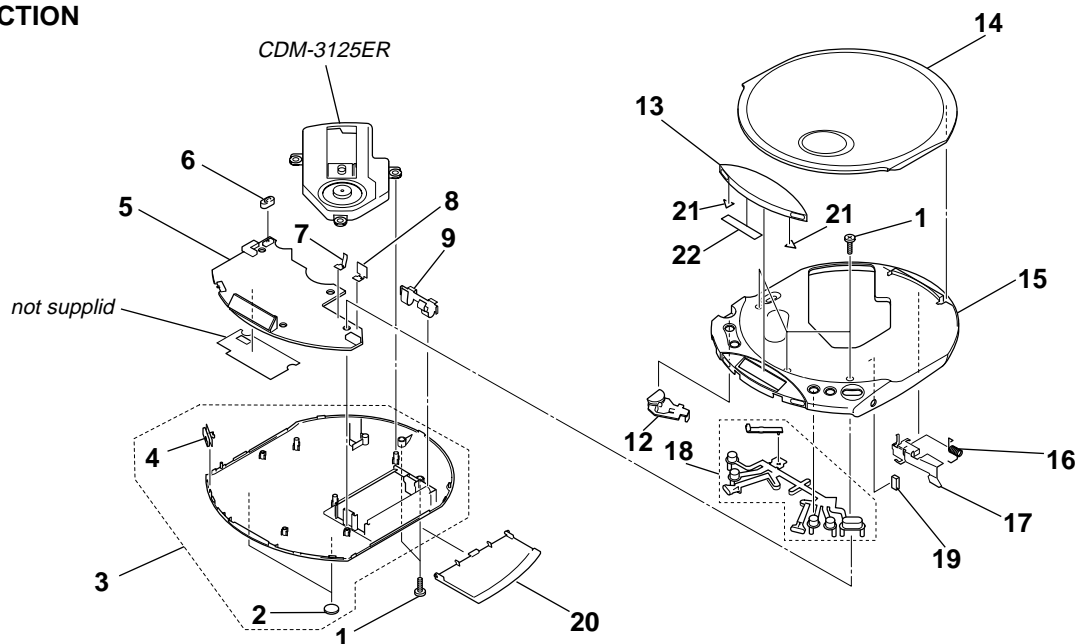
Parts color    Cabinet's color
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

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.

**New Type (D-E350 : US)**

## CABINET SECTION



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1	3-336-395-01	SCREW (B2X10) (G), TAPPING	
2	4-974-607-11	FOOT, RUBBER	
3	X-3380-861-3	CABINET (REAR) ASSY	
4	3-222-857-01	KNOB (HOLD)	
* 5	A-3178-733-A	MAIN BOARD, COMPLETE	
6	3-232-612-01	KNOB (JOGGABLE)	
7	3-231-411-01	TERMINAL (-), BATTERY	
8	3-222-860-01	TERMINAL (+,-), BATTERY	
9	3-231-676-01	TERMINAL (LINK 4), BATTERY	
12	3-222-855-01	BUTTON (OPEN) (SILVER)	
12	3-222-855-31	BUTTON (OPEN) (RED)	
12	3-222-855-71	BUTTON (OPEN) (BLUE)	
12	3-222-855-91	BUTTON (OPEN) (ORANGE)	
12	3-239-460-11	BUTTON (OPEN) (DARK BLUE)	
13	3-222-853-01	WINDOW (LCD) (SILVER,BLUE)	
13	3-222-853-81	WINDOW (LCD) (RED, DARK BLUE, ORANGE)	
14	X-3381-531-1	LID ASSY, UPPER (SILVER)	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
14	X-3381-532-1	LID ASSY, UPPER (BLUE)	
14	X-3381-533-1	LID ASSY, UPPER (ORANGE)	
14	X-3381-534-1	LID ASSY, UPPER (RED)	
14	X-3381-535-1	LID ASSY, UPPER (DARK BLUE)	
15	3-238-261-01	CABINET (FRONT) (SILVER)	
15	3-238-261-11	CABINET (FRONT) (BLUE)	
15	3-238-261-31	CABINET (FRONT) (RED)	
15	3-238-261-41	CABINET (FRONT) (DARK BLUE)	
15	3-238-261-51	CABINET (FRONT) (ORANGE)	
16	3-222-862-01	SPRING (TORSION)	
17	3-231-469-01	PLATE, SUPPORT	
18	3-222-854-21	BUTTON (OPERATE)	
19	4-218-592-21	CUSHION	
20	3-222-856-02	LID, BATTERY CASE	
21	3-226-948-01	SHEET(2)(LCD WINDOW), ADHESIVE	
22	3-222-863-12	SHEET(1)(LCD WINDOW), ADHESIVE	



## ELECTRICAL PARTS LIST

## NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS  
All resistors are in ohms  
METAL : Metal-film resistor  
METAL OXIDE : Metal oxide-film resistor  
F : nonflammable
- Items marked “ \* ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

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

Les composants identifiés par une marque  $\Delta$  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.

## New Type (D-E350 : US)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-3178-733-A	MAIN BOARD, COMPLETE *****		C422	1-162-962-11	CERAMIC CHIP 470PF	10% 50V
	3-222-858-01	HOLDER, LCD		C423	1-109-982-11	CERAMIC CHIP 1uF	10% 10V
	3-244-912-01	SHEET (A), COPPER		C424	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V
	3-244-913-01	SHEET (B), COPPER		C427	1-104-847-11	TANTAL. CHIP 22uF	20% 4V
	3-222-860-01	TERMINAL (+.-), BATTERY		C428	1-135-854-21	ELECT CHIP 10uF	20% 16V
	3-231-411-01	TERMINAL (-), BATTERY		C429	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
	<CAPACITOR>			C430	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C103	1-164-505-11	CERAMIC CHIP 2.2uF	16V	C432	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C104	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C437	1-115-156-11	CERAMIC CHIP 1uF	10V
C106	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C438	1-115-156-11	CERAMIC CHIP 1uF	10V
C203	1-164-505-11	CERAMIC CHIP 2.2uF	16V	C450	1-115-156-11	CERAMIC CHIP 1uF	10V
C204	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C451	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C206	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C452	1-115-156-11	CERAMIC CHIP 1uF	10V
C301	1-100-053-21	CAP, ELECT 220uF		C453	1-115-467-11	CERAMIC CHIP 0.22uF	10% 10V
C303	1-115-156-11	CERAMIC CHIP 1uF	10V	C462	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C304	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V	C463	1-125-891-11	CERAMIC CHIP 0.47uF	10% 10V
C305	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V	C481	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C306	1-164-505-11	CERAMIC CHIP 2.2uF	16V	C482	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C307	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C500	1-109-982-11	CERAMIC CHIP 1uF	10% 10V
C401	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C501	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C402	1-164-505-11	CERAMIC CHIP 2.2uF	16V	C502	1-135-259-11	TANTAL. CHIP 10uF	20% 6.3V
C403	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	C601	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C404	1-104-913-11	TANTAL. CHIP 10uF	20% 16V	C602	1-162-915-11	CERAMIC CHIP 10PF	0.5PF 50V
C405	1-115-156-11	CERAMIC CHIP 1uF	10V	C603	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
C406	1-126-369-11	ELECT 220uF	20% 6.3V	C604	1-162-962-11	CERAMIC CHIP 470PF	10% 50V
C407	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C605	1-125-891-11	CERAMIC CHIP 0.47uF	10% 10V
C408	1-162-919-11	CERAMIC CHIP 22PF	5% 50V	C606	1-125-891-11	CERAMIC CHIP 0.47uF	10% 10V
C409	1-113-689-11	ELECT CHIP 100uF	20% 4V	C607	1-104-847-11	TANTAL. CHIP 22uF	20% 4V
C410	1-113-689-11	ELECT CHIP 100uF	20% 4V	C608	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C412	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C609	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C413	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C610	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C414	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V	C611	1-162-962-11	CERAMIC CHIP 470PF	10% 50V
C415	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C612	1-162-962-11	CERAMIC CHIP 470PF	10% 50V
C416	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C613	1-162-962-11	CERAMIC CHIP 470PF	10% 50V
C417	1-110-569-21	TANTAL. CHIP 47uF	20% 4V	C614	1-162-962-11	CERAMIC CHIP 470PF	10% 50V
C418	1-126-369-11	ELECT 220uF	20% 6.3V	C615	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C419	1-127-760-11	CERAMIC CHIP 4.7uF	10% 6.3V	C616	1-128-964-91	TANTAL. CHIP 100uF	20% 6.3V
C420	1-109-982-11	CERAMIC CHIP 1uF	10% 10V	C617	1-104-847-11	TANTAL. CHIP 22uF	20% 4V
C421	1-127-760-11	CERAMIC CHIP 4.7uF	10% 6.3V	C618	1-162-915-11	CERAMIC CHIP 10PF	0.5PF 50V
				C619	1-162-915-11	CERAMIC CHIP 10PF	0.5PF 50V
				C620	1-115-156-11	CERAMIC CHIP 1uF	10V

# D-E350/E351/E351SR/E353/E355/E356CK

## MAIN

Ref. No.	Part No.	Description	Remark		
C621	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C622	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C623	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C624	1-104-847-11	TANTAL. CHIP	22uF	20%	4V
C626	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C627	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C628	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C629	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C651	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C801	1-115-156-11	CERAMIC CHIP	1uF		10V
C802	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C804	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C806	1-216-864-11	METAL CHIP	0	5%	1/16W
C807	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C808	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C809	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C810	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C811	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C812	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C813	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C814	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C818	1-164-156-11	CERAMIC CHIP	0.1uF		25V
<CONNECTOR>					
* CN501	1-816-237-21	CONNECTOR, FFC/FPC (ZIF) 15P			
CN502	1-784-342-11	HOUSING, CONNECTOR 2P			
CN503	1-784-342-21	HOUSING, CONNECTOR 2P			
<DIODE>					
D101	8-719-069-54	DIODE	UDZSTE-175.1B		
D201	8-719-069-54	DIODE	UDZSTE-175.1B		
D305	8-719-069-54	DIODE	UDZSTE-175.1B		
D401	8-719-085-43	DIODE	MA2YD2300LS0		
D402	8-719-404-50	DIODE	MA111-TX		
D404	8-719-067-42	DIODE	MA2H735-(TX).S0		
D405	8-719-072-70	DIODE	MA2ZD14001S0		
D406	8-719-058-24	DIODE	RB501V-40TE-17		
D408	8-719-072-70	DIODE	MA2ZD14001S0		
D409	8-719-404-50	DIODE	MA111-TX		
D412	8-719-404-50	DIODE	MA111-TX		
D413	8-719-420-87	DIODE	MA8130		
D414	8-719-420-87	DIODE	MA8130		
D415	8-719-976-96	DIODE	DTZ4.7C		
D461	8-719-072-70	DIODE	MA2ZD14001S0		
D804	8-719-069-54	DIODE	UDZSTE-175.1B		
D805	8-719-081-42	DIODE	UMZ6.8N-T106		
<FERRITE BEAD>					
FB101	1-500-234-22	FERRITE	0uH		
FB201	1-500-234-22	FERRITE	0uH		
FB301	1-500-234-22	FERRITE	0uH		
FB404	1-414-760-21	FERRITE	0uH		
FB405	1-414-760-21	FERRITE	0uH		
FB406	1-216-864-11	METAL CHIP	0	5%	1/16W
FB407	1-216-864-11	METAL CHIP	0	5%	1/16W
FB411	1-216-864-11	METAL CHIP	0	5%	1/16W
FB601	1-414-760-21	FERRITE	0uH		
FB602	1-414-760-21	FERRITE	0uH		

Ref. No.	Part No.	Description	Remark		
FB603	1-414-760-21	FERRITE	0uH		
FB604	1-414-760-21	FERRITE	0uH		
<IC>					
IC302	8-759-681-65	IC	TA2120FN(EL)		
IC401	6-702-670-01	IC	TB2125(O.VP)		
IC601	8-752-419-91	IC	CXD3048R		
IC603	8-759-832-04	IC	MSM51V4400E-70SJ7FS1		
IC801	6-801-954-01	IC	T5AW6-Z5SONY		
<JACK>					
J301	1-815-135-32	JACK, HEADPHONE (㊂)			
J401	1-778-153-21	JACK,DC(POLARITY UNIFIED TYPE)	(DC IN 4.5V)		
<INDUCTOR>					
L1	1-410-993-42	INDUCTOR	1uH		
L2	1-410-993-42	INDUCTOR	1uH		
L3	1-400-145-21	INDUCTOR	47uH		
L401	1-419-188-21	INDUCTOR	100uH		
L402	1-469-525-91	INDUCTOR	10uH		
L408	1-414-400-41	INDUCTOR	22uH		
L409	1-469-527-91	INDUCTOR	47uH		
L410	1-469-527-91	INDUCTOR	47uH		
L411	1-412-054-21	INDUCTOR	2.2uH		
L412	1-412-054-21	INDUCTOR	2.2uH		
L413	1-414-402-11	INDUCTOR	47uH		
<LIQUID CRYSTAL DISPLAY>					
LCD801	1-804-248-11	DISPLAY PANEL, LIQUID CRYSTAL			
<TRANSISTOR>					
Q401	6-550-070-01	TRANSISTOR	2SB1237TV2PQR		
Q402	8-729-231-74	TRANSISTOR	2SC4116-GL		
Q403	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR		
Q405	8-729-905-40	TRANSISTOR	2SC4081T106		
Q406	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR		
Q407	8-729-905-40	TRANSISTOR	2SC4081T106		
Q408	8-729-029-10	TRANSISTOR	DTC143TUA-T106		
Q410	8-729-922-10	TRANSISTOR	2SA1577-QR		
Q411	8-729-905-40	TRANSISTOR	2SC4081T106		
Q412	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR		
Q413	8-729-427-74	TRANSISTOR	XP4601		
<RESISTOR>					
R105	1-216-837-11	METAL CHIP	22K	5%	1/16W
R106	1-216-841-11	METAL CHIP	47K	5%	1/16W
R107	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R109	1-216-793-11	RES-CHIP	4.7	5%	1/10W
R205	1-216-837-11	METAL CHIP	22K	5%	1/16W
R206	1-216-841-11	METAL CHIP	47K	5%	1/16W
R207	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
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	1-216-857-11	METAL CHIP	1M	5%	1/16W
R402	1-216-841-11	METAL CHIP	47K	5%	1/16W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R403	1-216-853-11	METAL CHIP	470K	5%	1/16W	R606	1-216-837-11	METAL CHIP	22K	5%	1/16W
R404	1-216-837-11	METAL CHIP	22K	5%	1/16W	R607	1-216-837-11	METAL CHIP	22K	5%	1/16W
R405	1-216-789-11	METAL CHIP	2.2	5%	1/16W	R608	1-216-837-11	METAL CHIP	22K	5%	1/16W
R406	1-216-837-11	METAL CHIP	22K	5%	1/16W	R609	1-216-837-11	METAL CHIP	22K	5%	1/16W
R407	1-216-864-11	METAL CHIP	0	5%	1/16W	R610	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R408	1-216-857-11	METAL CHIP	1M	5%	1/16W	R611	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R409	1-216-849-11	METAL CHIP	220K	5%	1/16W	R612	1-216-833-11	METAL CHIP	10K	5%	1/16W
R410	1-216-845-11	METAL CHIP	100K	5%	1/16W	R613	1-216-853-11	METAL CHIP	470K	5%	1/16W
R412	1-216-845-11	METAL CHIP	100K	5%	1/16W	R614	1-216-845-11	METAL CHIP	100K	5%	1/16W
R415	1-216-833-11	METAL CHIP	10K	5%	1/16W	R615	1-216-845-11	METAL CHIP	100K	5%	1/16W
R416	1-216-857-11	METAL CHIP	1M	5%	1/16W	R618	1-216-833-11	METAL CHIP	10K	5%	1/16W
R417	1-216-813-11	METAL CHIP	220	5%	1/16W	R619	1-216-841-11	METAL CHIP	47K	5%	1/16W
R418	1-218-911-11	METAL CHIP	470K	1%	1/10W	R622	1-216-864-11	METAL CHIP	0	5%	1/16W
R419	1-218-903-11	METAL CHIP	220K	1%	1/10W	R623	1-216-805-11	METAL CHIP	47	5%	1/16W
R420	1-216-833-11	METAL CHIP	10K	5%	1/16W	R626	1-216-833-11	METAL CHIP	10K	5%	1/16W
R421	1-216-833-11	METAL CHIP	10K	5%	1/16W	R627	1-216-809-11	METAL CHIP	100	5%	1/16W
R422	1-216-821-11	METAL CHIP	1K	5%	1/16W	R628	1-216-817-11	METAL CHIP	470	5%	1/16W
R423	1-216-841-11	METAL CHIP	47K	5%	1/16W	R629	1-216-817-11	METAL CHIP	470	5%	1/16W
R424	1-216-841-11	METAL CHIP	47K	5%	1/16W	R630	1-216-817-11	METAL CHIP	470	5%	1/16W
R426	1-216-864-11	METAL CHIP	0	5%	1/16W	R631	1-216-817-11	METAL CHIP	470	5%	1/16W
R429	1-216-821-11	METAL CHIP	1K	5%	1/16W	R632	1-216-817-11	METAL CHIP	470	5%	1/16W
R430	1-216-833-11	METAL CHIP	10K	5%	1/16W	R633	1-216-833-11	METAL CHIP	10K	5%	1/16W
R431	1-216-864-11	METAL CHIP	0	5%	1/16W	R634	1-216-864-11	METAL CHIP	0	5%	1/16W
R433	1-216-857-11	METAL CHIP	1M	5%	1/16W	R635	1-216-833-11	METAL CHIP	10K	5%	1/16W
R435	1-216-845-11	METAL CHIP	100K	5%	1/16W	R636	1-216-857-11	METAL CHIP	1M	5%	1/16W
R436	1-216-845-11	METAL CHIP	100K	5%	1/16W	R637	1-216-845-11	METAL CHIP	100K	5%	1/16W
R437	1-218-895-11	METAL CHIP	100K	1%	1/10W	R651	1-216-864-11	METAL CHIP	0	5%	1/16W
R438	1-216-849-11	METAL CHIP	220K	5%	1/16W	R653	1-216-864-11	METAL CHIP	0	5%	1/16W
R440	1-216-821-11	METAL CHIP	1K	5%	1/16W	R801	1-216-864-11	METAL CHIP	0	5%	1/16W
R442	1-216-295-91	SHORT CHIP	0			R804	1-216-864-11	METAL CHIP	0	5%	1/16W
R447	1-216-864-11	METAL CHIP	0	5%	1/16W	R805	1-216-864-11	METAL CHIP	0	5%	1/16W
R449	1-216-845-11	METAL CHIP	100K	5%	1/16W	R806	1-216-845-11	METAL CHIP	100K	5%	1/16W
R450	1-216-821-11	METAL CHIP	1K	5%	1/16W	R809	1-218-871-11	METAL CHIP	10K	1%	1/10W
R451	1-218-903-11	METAL CHIP	220K	1%	1/10W	R810	1-218-871-11	METAL CHIP	10K	1%	1/10W
R452	1-218-887-11	METAL CHIP	47K	1%	1/10W	R811	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R453	1-218-903-11	METAL CHIP	220K	1%	1/10W	R812	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R454	1-218-903-11	METAL CHIP	220K	1%	1/10W	R813	1-216-821-11	METAL CHIP	1K	5%	1/16W
R455	1-216-841-11	METAL CHIP	47K	5%	1/16W	R814	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R456	1-216-841-11	METAL CHIP	47K	5%	1/16W	R815	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R457	1-216-845-11	METAL CHIP	100K	5%	1/16W	R816	1-216-849-11	METAL CHIP	220K	5%	1/16W
R458	1-216-833-11	METAL CHIP	10K	5%	1/16W	R817	1-216-845-11	METAL CHIP	100K	5%	1/16W
R459	1-216-864-11	METAL CHIP	0	5%	1/16W	R819	1-216-864-11	METAL CHIP	0	5%	1/16W
R461	1-216-845-11	METAL CHIP	100K	5%	1/16W	R820	1-216-821-11	METAL CHIP	1K	5%	1/16W
R462	1-216-841-11	METAL CHIP	47K	5%	1/16W	R821	1-216-864-11	METAL CHIP	0	5%	1/16W
R463	1-216-857-11	METAL CHIP	1M	5%	1/16W	R823	1-216-845-11	METAL CHIP	100K	5%	1/16W
R465	1-216-864-11	METAL CHIP	0	5%	1/16W	R824	1-216-864-11	METAL CHIP	0	5%	1/16W
R466	1-216-821-11	METAL CHIP	1K	5%	1/16W	R826	1-216-864-11	METAL CHIP	0	5%	1/16W
R467	1-216-864-11	METAL CHIP	0	5%	1/16W	R829	1-218-871-11	METAL CHIP	10K	1%	1/10W
R481	1-218-903-11	METAL CHIP	220K	1%	1/10W	R883	1-216-864-11	METAL CHIP	0	5%	1/16W
R482	1-216-821-11	METAL CHIP	1K	5%	1/16W	R884	1-216-864-11	METAL CHIP	0	5%	1/16W
R483	1-216-837-11	METAL CHIP	22K	5%	1/16W	R885	1-216-864-11	METAL CHIP	0	5%	1/16W
R484	1-216-864-11	METAL CHIP	0	5%	1/16W						
R500	1-216-864-11	METAL CHIP	0	5%	1/16W			<SWITCH>			
R601	1-216-837-11	METAL CHIP	22K	5%	1/16W	S801	1-762-003-11	SWITCH, PUSH (DOOR OPEN)			
R602	1-216-861-11	METAL CHIP	2.2M	5%	1/16W	S802	1-762-078-11	SWITCH, SLIDE (HOLD→)			
R603	1-216-841-11	METAL CHIP	47K	5%	1/16W	S803	1-786-274-11	SWITCH, SLIDE (ESP)			
R604	1-216-857-11	METAL CHIP	1M	5%	1/16W	S805	1-786-050-21	SWITCH, KEY BOARD (▶▶▶▶)			
R605	1-216-809-11	METAL CHIP	100	5%	1/16W	S806	1-786-050-21	SWITCH, KEY BOARD (◀◀◀◀)			

D-E350/E351/E351SR/E353/E355/E356CK

Ref. No.	Part No.	Description	Remark
S807	1-786-050-21	SWITCH, KEY BOARD (■)	
S808	1-786-276-11	SWITCH, PUSH (1 KEY) (SOUND)	
S809	1-786-050-21	SWITCH, KEY BOARD (VOL+)	
S810	1-786-050-21	SWITCH, KEY BOARD (VOL -)	
S811	1-786-276-11	SWITCH, PUSH (1 KEY) (MENU)	
<VARISTOR>			
VDR401	1-801-862-11	VARISTOR, CHIP	
VDR402	1-801-862-11	VARISTOR, CHIP	
VDR601	1-801-862-11	VARISTOR, CHIP	
VDR602	1-801-862-11	VARISTOR, CHIP	
VDR603	1-801-862-11	VARISTOR, CHIP	
<VIBLATOR>			
X601	1-795-561-21	VIBRATOR, CERAMIC (16.9MHz)	
*****			
ACCESSORIES			
*****			
	3-237-762-61	MANUAL, INSTRUCTION (ENGLISH)	
	8-953-273-83	RECEIVER,EAR MDR-G051LP	

MEMO

## REVISION HISTORY

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