XP-ZV700/ZV701/ZV702

SERVICE MANUAL

Ver. 1.0   2005.01

AEP Model
XP-ZV700/ZV701/ZV702

E Model
XP-ZV700/ZV701

Photo: XP-ZV700

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Model Name Using Similar Mechanism	NEW
CD Mechanism Type	CDM-3325ERV
Optical Pick-Up Name	DAX-25EV

SPECIFICATIONS

System
Compact disc digital audio system

Laser diode properties
Material: GaAlAs
Wavelength: λ = 770 - 800 nm
Emission duration: Continuous
Laser output: Less than 44.6 µW
(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
20 - 20 000 Hz $^{+1}_{-2}$ dB (measured by JEITA)

Output (at 3 V input level)
Headphones (stereo minijack)
Approx. 5 mW + Approx. 5 mW at 16 Ω
(Approx. 1.5 mW + Approx. 1.5 mW at 16 Ω)*
*For the customers in AEP model

Power requirements
- LR6 (size AA) battery: 1.5 V DC × 1

- Sony NH-7WMAA rechargeable battery: 1.2 V DC × 1*
- Sony NH-AA-B2D rechargeable battery: 2,300 mAh
- AC power adaptor (DC IN 3 V jack): 100 - 240 V, 50/60 Hz

* Except ZV700: AEP model. For the area code of the model you purchased, check the upper left side of the bar code on the package.

Battery life [1]

When using one alkaline battery [2]

	E•A•S•S GP	
	"EASS GP 1"	"EASS GP 2"
Audio CD	22	20
ATRAC CD [3]	41	38
MP3 CD [4]	26	24

When using one NH-7WMAA rechargeable battery (charged for about 5 hours [5] [6])

	E•A•S•S GP	
	"EASS GP 1"	"EASS GP 2"
Audio CD	10	9
ATRAC CD [3]	17	15
MP3 CD [4]	12	11

1) Measured value using the JEITA (Japan Electronics and Information Technology Industries Association)
Playing time shown is approximate hours, when you use the player on a flat and stable surface and "POWER SAVE" is set to "ON" .
This value varies depending on how the player is used.
2) When using a Sony LR6 (SG) alkaline battery (produced in Japan)

PORTABLE CD PLAYER

AIWA

XP-ZV700/ZV701/ZV702

3)Recorded at 48kbps
4)Recorded at 128kbps
5)Charging time varies depending on how the
rechargeable battery is used.
6)Except ZV700: AEP model

Operating temperature
5°C - 35°C (41°F - 95°F)
Dimensions (w/h/d) (excluding projecting parts and controls)
Approx. 137.8 × 25.0 × 137.8 mm (5 $\frac{1}{2}$ × 1 ×
5 $\frac{1}{2}$ in.)
Mass (excluding accessories)
Approx. 179 g (6.4 oz.)

Supplied Accessories

AC power adaptor (ZV700: AEP model*)
Earphones (ZV700: E18 and ZV701: E18 models only*)
Earphones (Other models)
Remote (ZV701: E18 and ZV702 models only*)
Clamp filter (ZV700: AEP model only*)
Rechargeable battery (ZV701: E18 model only*)
Battery carrying case (ZV701: E18 model only*)
CD-ROM (SonicStage)
Operating instructions
Installation/Operating Guide

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

Design and specifications are subject to change
without notice.

• Abbreviation
E18: Singapore model

TABLE OF CONTENTS

Notes on the AC power adaptor
• Disconnect all power sources when the player is
not to be used for a long time.
• Use only the AC power adaptor supplied. If
your player is not supplied with the one, use an
AC-E30HG AC power adaptor (not available in
Australian and Argentina). If you use any other AC
power adaptor, malfunction may occur.

Polarity of the plug
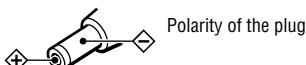
• Do not touch the AC power adaptor with wet
hands.
• Connect the AC power adaptor to an easily
accessible AC outlet. Should you notice an
abnormality in the AC power adaptor, disconnect it
from the AC outlet immediately.

Notes on chip component replacement
• Never reuse a disconnected chip component.
• Notice that the minus side of a tantalum capacitor may be dam-
aged by heat.
Flexible Circuit Board Repairing
• Keep the temperature of the soldering iron around 270 ˚C dur-
ing 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 ra-
diation exposure.

SAFETY-RELATED COMPONENT WARNING!!

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

SECTION 1
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 break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

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

NOTES ON LASER DIODE EMISSION CHECK

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

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

🗲 : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

OPERATION CHECK WHEN THE LID IS OPEN

In performing the repair with the power supplied to the set, removing the JACK board causes the set to be disabled.

In such a case, make a solder bridge to short SL501 (OPEN) on the JACK board in advance.

– JACK Board (Component Side) –
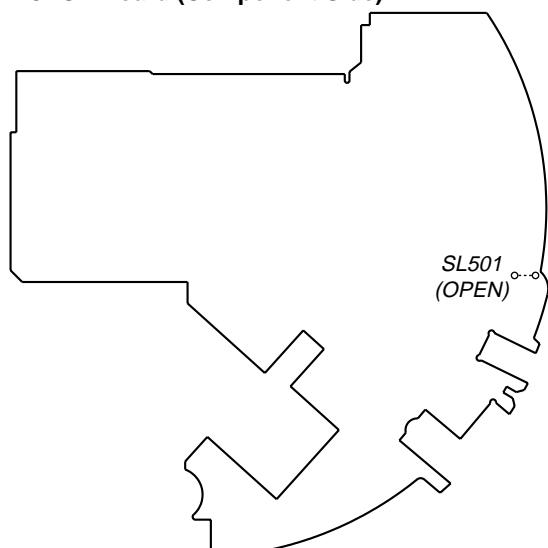
LASER DIODE AND FOCUS SEARCH OPERATION CHECK

During normal operation of the equipment, emission of the laser diode is prohibited unless the upper lid is closed while turning ON the S502. (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 S502 with a screwdriver having a thin tip as shown in Fig.1.
  3. Press the ▶︎❚❚ ENTER button.
  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 pick-up is faulty.
     In this operation, the objective lens will move up and down 2 times along with inward motion for the focus search.
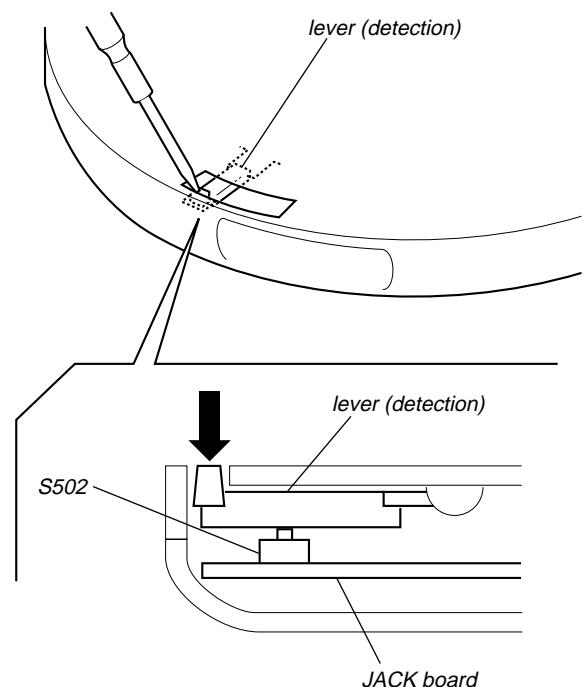

Fig. 1 Method to push the S502

NOTES ON REPLACEMENT OF CSP (CHIP SIZE PACKAGE) IC

Replacement of CXR711260-212H2 (IC603) used in this set requires a special tool.

XP-ZV700/ZV701/ZV702

Providing the required system environment

System requirements

The following system environment is required in order to use the SonicStage Ver. 2.3.

Computer	IBM PC/AT or Compatible
	• CPU: Pentium II 400 MHz or higher (Pentium III 450 MHz or higher is recommended.) • Hard disk drive space: 200 MB or more (1.5 GB or more is recommended) (The amount space will vary according to Windows version and the number of music files stored on the hard disk.) • RAM: 64 MB or more (128 MB or more is recommended)
	Others • CD drive (capable of digital playback by WDM) • Sound Board • USB port (supports USB (previously USB 1.1))
Operating System	Factory installed: Windows XP Media Center Edition 2005/Windows XP Media Center Edition 2004/Windows XP Media Center Edition/Windows XP Professional/Windows XP Home Edition/Windows 2000 Professional/Windows Millennium Edition/Windows 98 Second Edition
Display	High Color (16 bit) or higher, 800 × 600 dots or better (1024 × 768 dots or better is recommended)
Others	• Internet access: for Web registration, EMD services and CDDB • Windows Media Player (version 7.0 or higher) installed for playing WMA files

This software is not supported by the following environments:

• OSs other than the indicated above
• Personally constructed PCs or operating systems
• An environment that is an upgrade of the original manufacturer-installed operating system
• Multi-boot environment
• Multi-monitor environment
• Macintosh

Notes

• We do not ensure trouble-free operation on all computers that satisfy the system requirements.
• The NTFS format of Windows XP/Windows 2000 Professional can be used only with the standard (factory) settings.
• We do not ensure trouble-free operation of the system suspend, sleep, or hibernation function on all computers.
• For Windows 2000 Professional users, install Service Pack 3 or later before using the software.

COLOR VARIATION

Model	Destination	BLACK	WHITE
XP-ZV700	AEP	●	●
	E	●	●
XP-ZV701	AEP	●	●
	E	●	
XP-ZV702	AEP	●	●

Guide to Parts and Controls

CD player
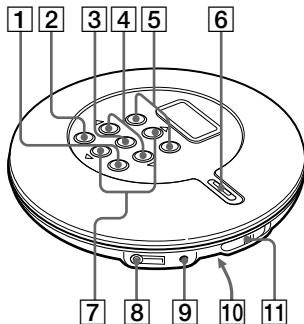
Remote (ZV702 and ZV701: E18 models only*)
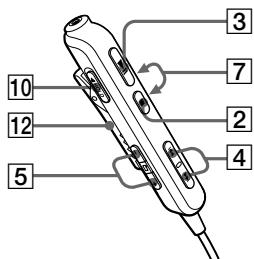
* For the area code of the model you purchased, check the upper left side of the bar code on the package.

• Abbreviation
E18: Singapore model

Display

1 SEARCH button

2 CD player:
ZV700: AEP model:
■button
Other models:
■/CHG button
26)
Remote:
■button

3 CD player:
►❚❚ (play/pause)*/ENTER button
Remote:
►❚❚ (play/pause)* button

4 |◄◄ /►►| buttons

5 ⬚ +/– buttons

6 DISPLAY/MENU button
21, 23, 25)

7 CD player:
VOL +/–•△/▽buttons
VOL +/–
△/▽
Remote:
VOL +/–

8 ⌒ (headphones) jack

9 DC IN 3 V jack

10 HOLD switch (on the back of the CD player)

11 OPEN switch

12 Clip

* This button has a tactile dot.
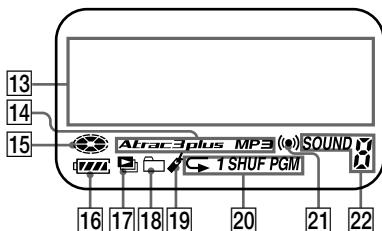
13 Character information display

14 Atrac3plus/MP3 indicator

15 Disc indicator

16 Battery indicator

17 Play list indicator

18 Group indicator

19 Bookmark indicator

20 Play mode indicator

21 Timer indicator

22 Sound indicator

SECTION 3
DISASSEMBLY

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

3-1. DISASSEMBLY FLOW
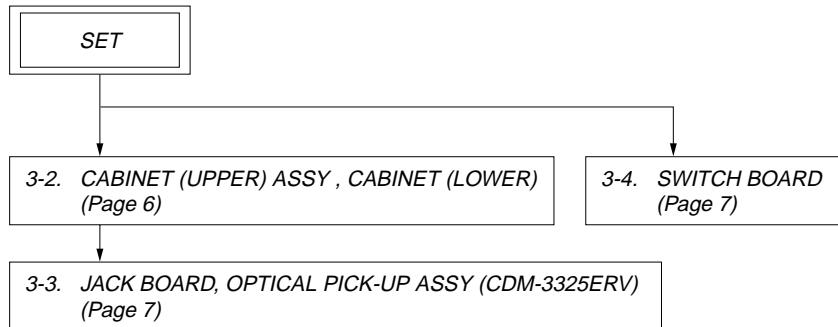
Note: Follow the disassembly procedure in the numerical order given.

3-2. CABINET (UPPER) ASSY, CABINET (LOWER)
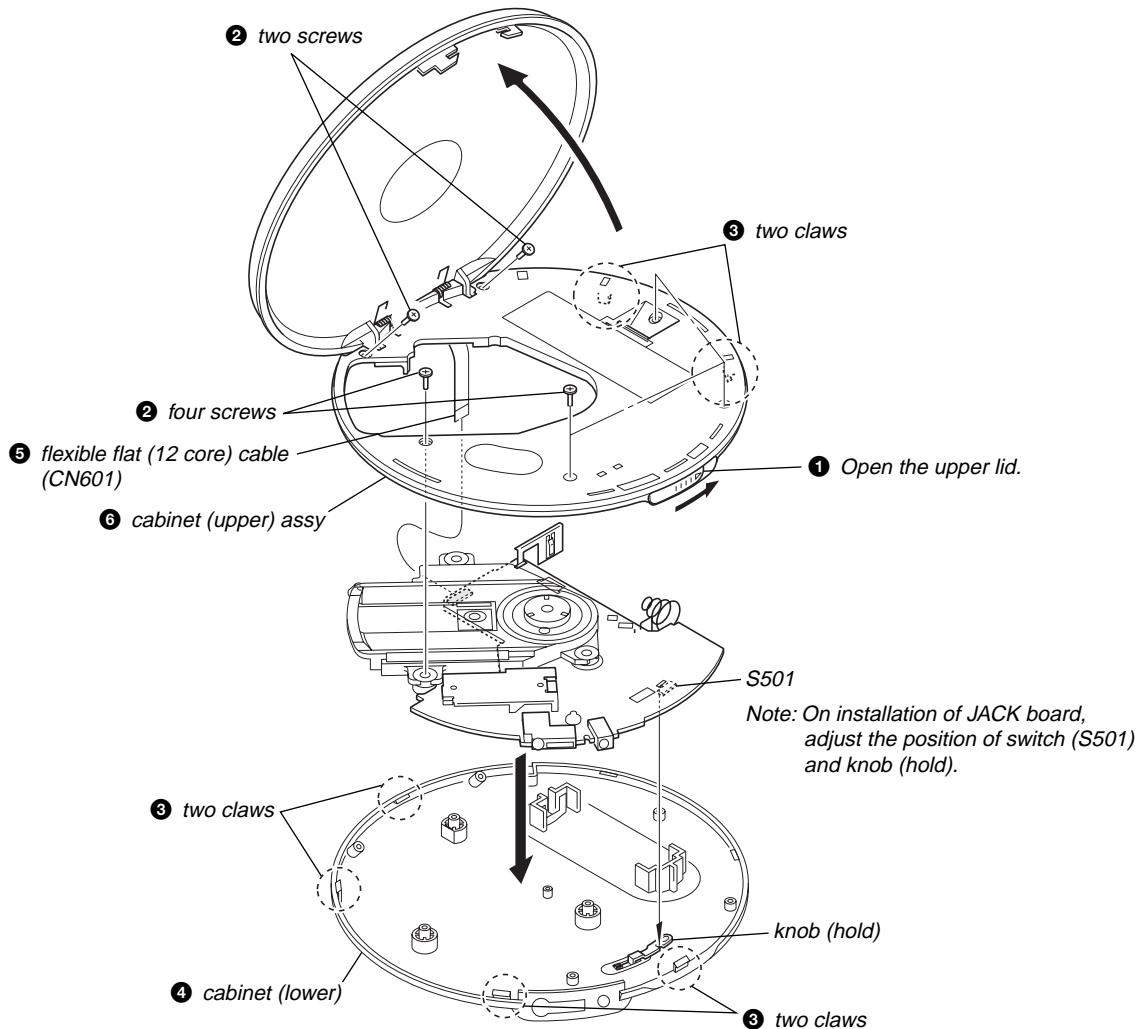
3-3. JACK BOARD, OPTICAL PICK-UP ASSY (CDM-3325ERV)

❹ insulator

❺ optical pick-up assy (CDM-3325ERV)

❷ two connectors (CN401, CN402)

❹ insulator

❹ insulator

❶ OP flexible board (CN601)

❸ JACK board

3-4. SWITCH BOARD

❾ button (operation)

❽ button (menu)

❻ liquid crystal display panel (LCD1001) (CN1001)

❺ flexible flat (12 core) cable (CN1002)

❼ SWITCH board

❸ claw

❹ cover (SW PWB)

❶ Open the upper lid.

❷ eight screws
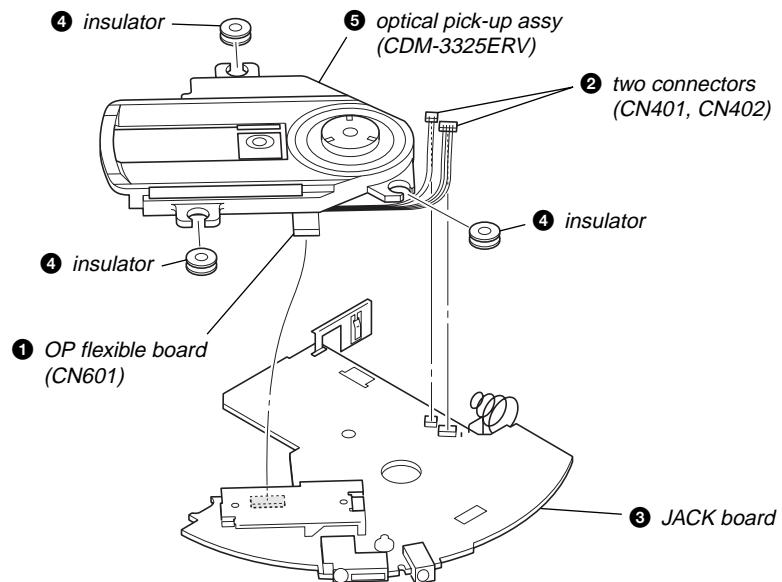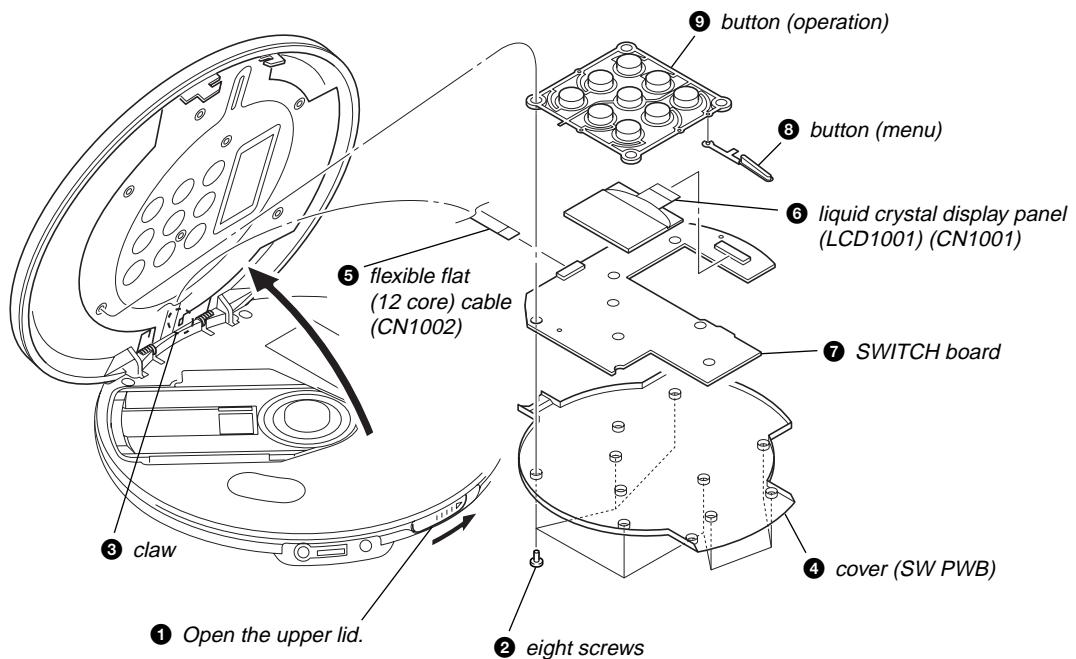
SECTION 4
DIAGRAMS

• **Note for Printed Wiring Boards and Schematic Diagrams**

Note on Printed Wiring Boards.
• ○———— : parts extracted from the component side.
• ———— : parts extracted from the conductor side.
• ● : Through hole.
• △ : internal component
• ▭ : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

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

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

• EGL board is multi-layer printed board.
However, the patterns of intermediate-layer have not been included in the diagram.

＊ Replacement of IC603 used in this set requires a special tool.

• Lead Layouts
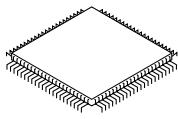
Lead layout of conventional IC   CSP (chip size package)
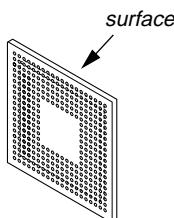
surface

Note on Schematic Diagrams.
• All capacitors are in µF unless otherwise noted. (p: pF)
50 WV or less are not indicated except for electrolytics
and tantalums.
• All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise
specified.
• △ : internal tolerance.
• ▭ : panel designation.

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

• ▬▬ : B+ Line.
• Power voltage is dc 1.5 V and fed with regulated dc power
supply from battery terminal.
• Voltages and waveforms are dc with respect to ground
under no-signal conditions.
no mark : CD PLAY
• Voltages are taken with a VOM (Input impedance 10 MΩ).
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

＊ Replacement of IC603 used in this set requires a special tool.

4-1. PRINTED WIRING BOARD – EGL BOARD –   :Uses unleaded solder.

	1	2	3	4	5	6	7	8	9	10

【EGL BOARD】(SIDE A)

【EGL BOARD】(SIDE B)

(A) JACK BOARD
CN501
(Page 11)

IC1602

R407

R606   R406

C639

C680

ZV700: E/
ZV701: E

R670

X601

C627

C695

C644

C632   C619

C662   C631   C629

C667   R647   R623   R621

                                                     R624
                                                  R625
                                              C617

R631   R614

ZV700: E/
ZV701: E

IC604

C687

R630

C686

1   50

25   26

VDR601   R618 C607   R632   C676   C675

CN9002

R602

R610

IC603
*

C678

C664

C646 R653 R613
R644

C659 C663   C677
R642
C610   R604
C603

C624   C626   R636   R637 C609
          R629
R669 C618   R628 C649 C654
C642 C648   R635   C655   C608
     R634   C650   R608
       R656   R655   R639
             R649
        R651   R650

CN601

OPTICAL
PICK-UP
BLOCK
(DAX-25EV)

C602   RB601

C601

R603

1

15

1

50   26

1   25

12
(12)

12
(12)

1-864-385-   1-864-385-

XP-ZV700/ZV701/ZV702

9   9

XP-ZV700/ZV701/ZV702

4-2. SCHEMATIC DIAGRAM — EGL BOARD — • See page 16 for Waveforms. • See page 16 for IC Pin Function Description.
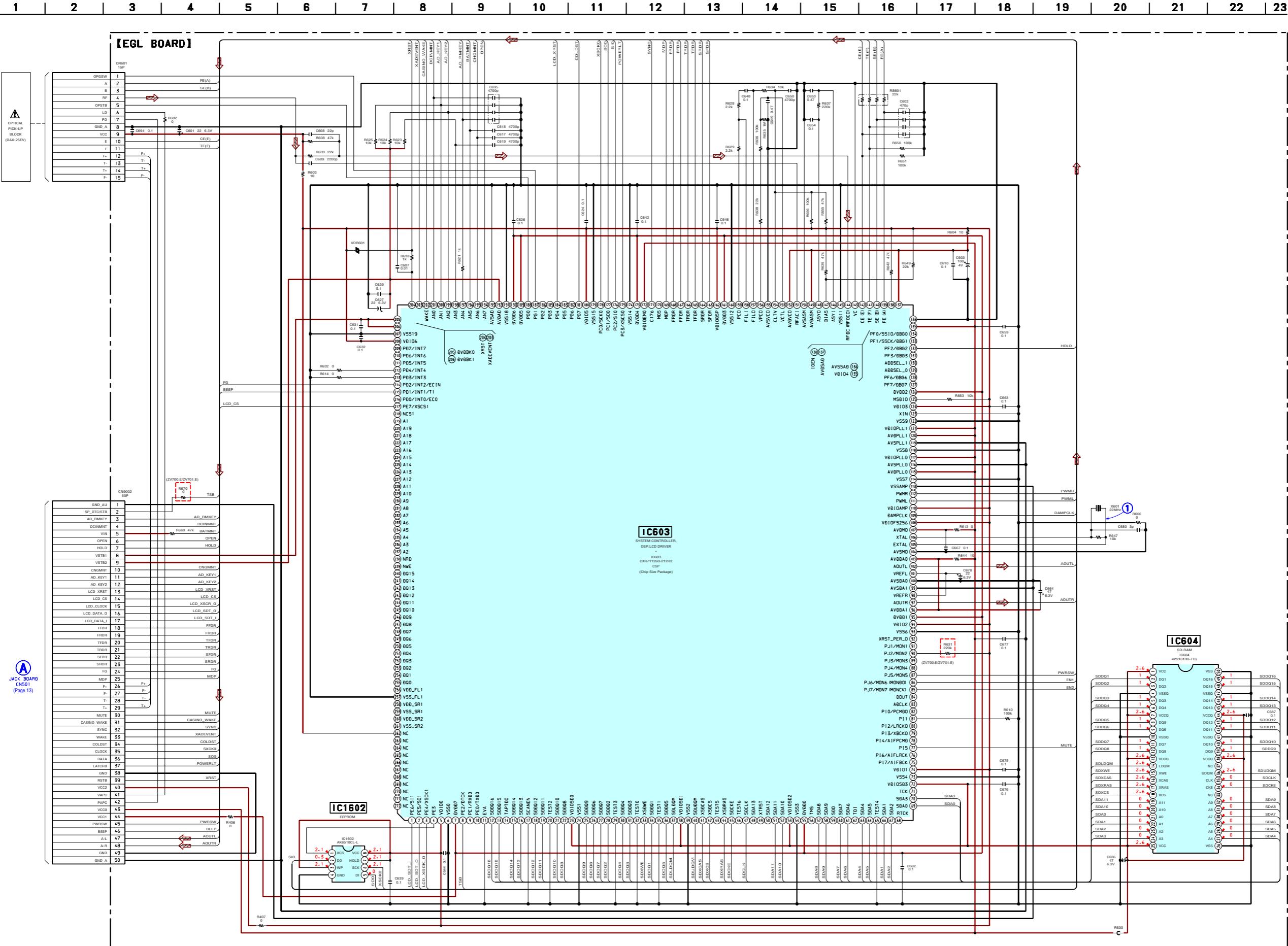
【EGL BOARD】

IC603
SYSTEM CONTROLLER,
DSP,LCD DRIVER

IC603
CXR711260-212H2
DSP
(Chip Size Package)

IC1602
EEPROM

IC1602
AK6510CL-L

IC604
SD-RAM

IC604
42S1/6100-7T0

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

4-3. PRINTED WIRING BOARD – JACK BOARD (COMPONENT SIDE) – 【4r】 :Uses unleaded solder.

【JACK BOARD】(COMPONENT SIDE)

- **Semiconductor Location**

Ref. No.	Location
D302	F-7
D401	A-7
D402	E-7
D404	C-6
D405	C-7
D407	C-7
D411	C-6
IC301	H-4
IC501	D-8
Q401	B-7
Q402	E-7
Q401	B-7
Q402	E-7
Q404	A-6
Q408	D-6
Q410	D-7
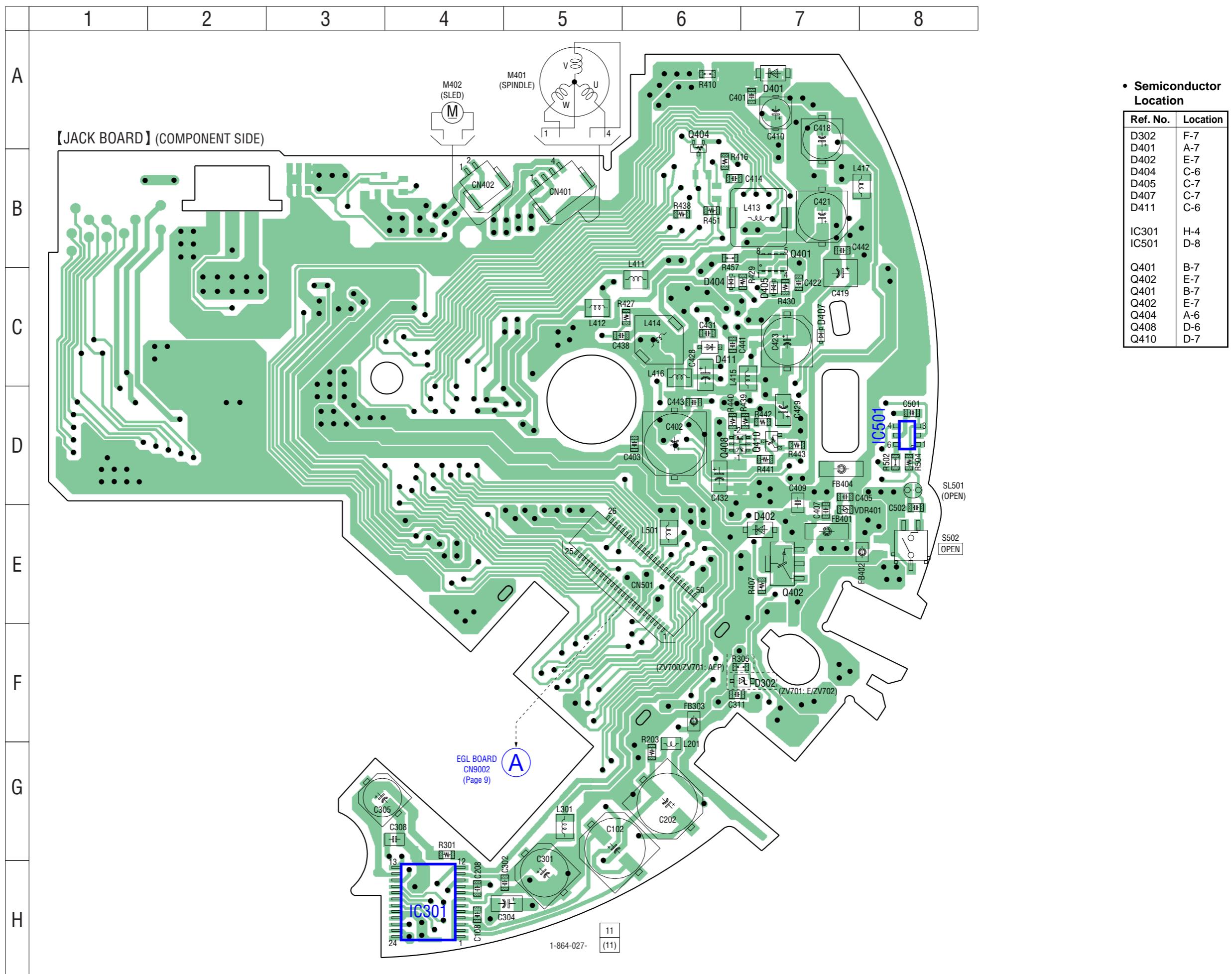
4-4. PRINTED WIRING BOARD – JACK BOARD (CONDUCTOR SIDE) – 🔲 **:Uses unleaded solder.**

【JACK BOARD】(CONDUCTOR SIDE)

DRY BATTERY
SIZE "AA"
(IEC DESIGNATION LR6)
1PC 1.5V

(EXCEPT ZV700: AEP)
RECHARGEABLE
BATTERY
NH-7WMAA 1PC 1.2V 700 mAh
(NH-AA-B2D 1PC 1.2V 2300 mAh)

IC401

EXCEPT ZV700:AEP

S501
HOLD
HOLD
OFF

(ZV701: E/ZV702)

(ZV701: E/ZV702)

(ZV701: E/ZV702)

(ZV701: E/ZV702)

J402
DC IN 3V

J301

SWITCH
BOARD
CN1002
(Page 14)

CN601

• **Semiconductor Location**

Ref. No.	Location
D101	F-3
D201	G-3
D301	E-3
D303	E-2
D304	E-2
D403	B-3
D406	C-2
D408	D-2
D412	B-2
IC401	C-3
Q403	B-2
Q409	D-4

1-864-027-
11
(11)

4-5. SCHEMATIC DIAGRAM – JACK BOARD –   • See page 16 for Waveforms.   • See page 16 for IC Block Diagram.   • See page 16 for IC Pin Function Description.
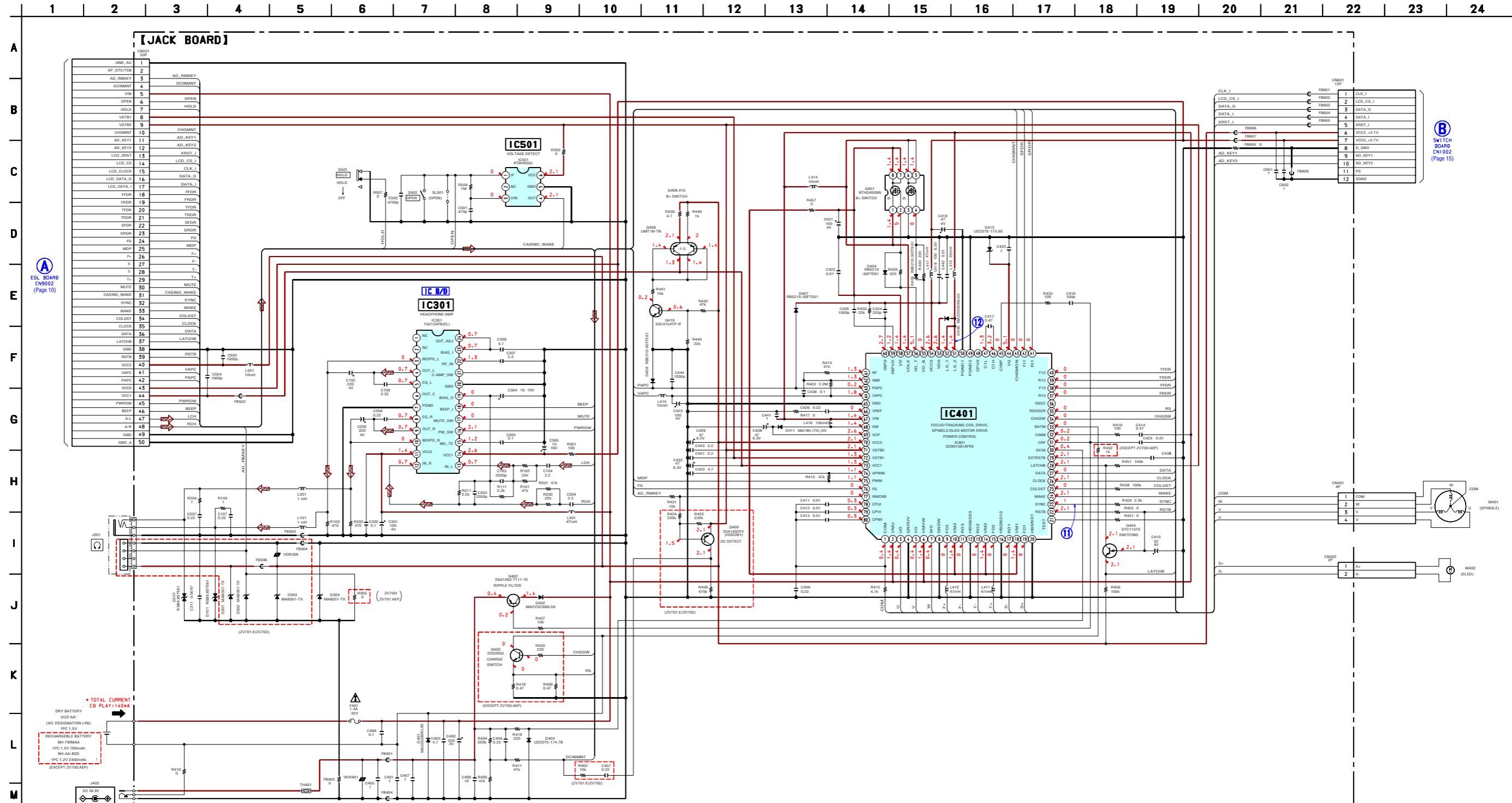
4-6. PRINTED WIRING BOARD – SWITCH BOARD – :Uses unleaded solder.

【SWITCH BOARD】

S1001
🔆 −

S1009
▲
VOL+

S1002
🔆 +

S1007
● DISPLAY
■ MENU

S1003
◄ ◄◄

S1005
►❚❚
ENTER

S1004
►►❚ ►

S1008
CHG ■ ■
EXCEPT   (ZV700:AEP)
(ZV700:AEP)

S1010
▼
VOL−

S1011
SEARCH

LCD1001
LIQUID CRYSTAL DISPLAY

CN1001

VDR1001 C1001

C1002 C1011 C1005 C1004 C1003
C1012 C1010 C1006 C1007 C1008

R1001 R1002 R1003 R1004 R1005

CN1002

R1135

R1102 R1101

R1103

R1106 R1105

R1113 R1109

R1114

R1104
R1108
R1107
R1110
R1111
R1112

1-864-579-

11
(11)

4-7. SCHEMATIC DIAGRAM – SWITCH BOARD –

【SWITCH BOARD】

1	2	3	4	5	6	7	8	9	10	11

A

CN1001
23P

CN1002
12P

B

JACK BOARD

SCK	1
CSB	2
SDI	3
SDO	4
RSTB	5
VDD	6
VSS	7
VREF	8
VCIN	9
CP1	10
CN1	11
CP2	12
CN2	13
CP3	14
CN3	15
VSSL	16
VCOUT	17
VLCIN	18
V1	19
V2	20
V3	21
V4	22
V5	23

LCD1001
LIQUID
CRYSTAL
DISPLAY

R1001 1k
R1002 1k
R1003 1k
R1004 1k
R1005 1k

1	CLK_I
2	LCD_CS_I
3	DATA_O
4	DATA_I
5	LCD_XRST
6	VCC2_+2.1V
7	VCC0_+2.7V
8	D_GND
9	AD_KEY1
10	AD_KEY2
11	PS
12	SGND

B
JACK BOARD
CN601
(Page 13)

C1001 0.1

C1002 0.1

VDR1001

C

C1012 0.22
C1011 0.22
C1010 0.22
C1008 0.47
C1007 0.22
C1006 0.22
C1005 0.22
C1004 0.22
C1003 0.22

R1113 47k   R1101 10k   R1105 2.2k
R1114 4.7k   R1102 4.7k   R1103 2.2k   R1106 4.7k   R1109 1k

S1011
SEARCH

S1001
–

S1002
+

S1003
◀ ◀◀

S1004
▶▶ ▶

S1005
▶❚❚
ENTER

R1107 10k   R1111 2.2k
R1104 22k   R1108 22k   R1110 2.2k   R1112 22k

D

S1010
VOL -
▼

S1009
▲
VOL +

S1008
CHG
EXCEPT
(ZV700:AEP)

■
(ZV700:AEP)

S1007
● DISPLAY
MENU

R1135
0

E

• IC Block Diagram

– JACK Board –

IC301 TA2152FN (EL)
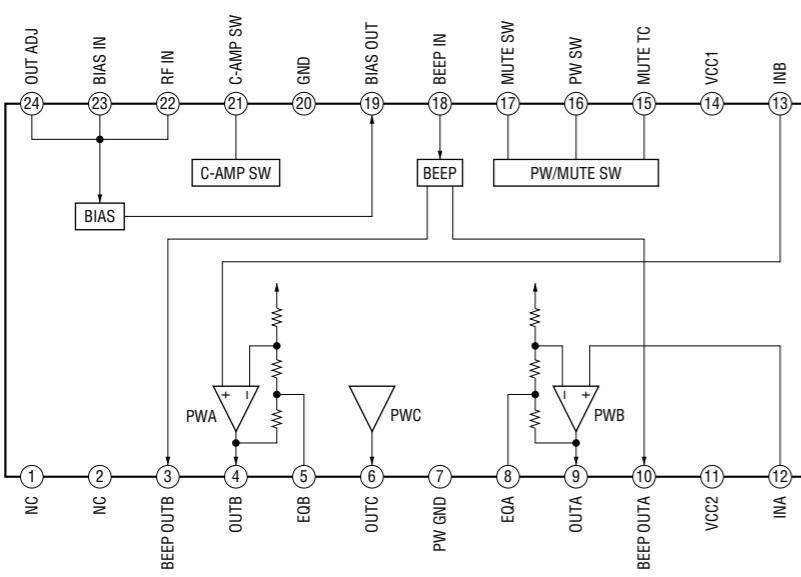
• Waveforms

– EGL Board –

① **X601**

1.1 Vp-p

45.5 ns

500 mV/DIV, 20 ns/DIV

– JACK Board –
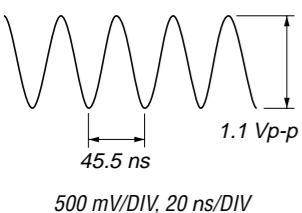
⑪ **IC401 ㉓ (SYNC)**
(CD play mode)

2.1 Vp-p

2.8 μs

1 V/DIV, 1 μs/DIV

⑫ **IC401 �51 (LO_2), �52 (LO_1)**

2.7 Vp-p

2.8 μs

1 V/DIV, 1 μs/DIV
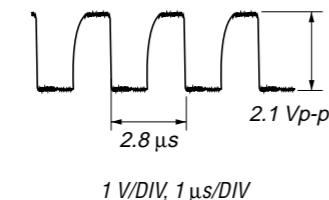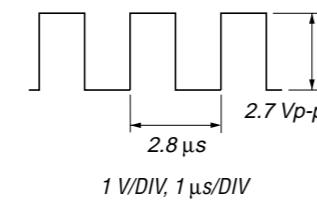
• IC Pin Function Description
EGL BOARD IC603 CXR711260-212H2 (SYSTEM CONTROLLER, DSP, LCD DRIVER)

Pin No.	Pin Name	I/O	Description
1	PE6/SI1	I	Serial data input from the liquid crystal display
2	PE5/SO1	O	Serial data output to the liquid crystal display
3	PE4/XSCK1	O	Serial clock signal output to the liquid crystal display
4	PE3	O	Chip select signal output to the EEPROM
5	VDIO0	—	Power supply terminal (+2.1V)
6	VSS0	—	Ground terminal
7	DVDD7	—	Power supply terminal (+1.3V)
8	PE2/DTCK	I/O	Not used
9	PE1/RXD0	I	Not used
10	PE0/TXD0	O	Not used
11	EVA	—	Not used
12, 13	SDDQ16, SDDQ15	I/O	Two-way data bus with the SD-RAM
14	TAPTDO	—	Not used
15, 16	SDDQ14, SDDQ13	I/O	Two-way data bus with the SD-RAM
17	SCANEN	—	Not used
18, 19	SDDQ12, SDDQ11	I/O	Two-way data bus with the SD-RAM
20	TEST2	—	Not used
21, 22	SDDQ10, SDDQ8	I/O	Two-way data bus with the SD-RAM
23	VDIOSD0	—	Power supply terminal (+2.7V)
24	VSS1	—	Ground terminal
25 to 28	SDDQ9, SDDQ6, SDDQ7, SDDQ2	I/O	Two-way data bus with the SD-RAM
29	TEST3	—	Not used
30, 31	SDDQ4, SDDQ3	I/O	Two-way data bus with the SD-RAM
32	TEST0	—	Not used
33	XSDWE	O	Write enable signal output to the SD-RAM
34	SDDQ1	I/O	Two-way data bus with the SD-RAM
35	TEST1	—	Not used
36	SDDQ5	I/O	Two-way data bus with the SD-RAM
37	SDLDQM	O	Lower byte input/output mask signal to the SD-RAN
38	VDIOSD1	—	Power supply terminal (+2.7V)
39	VSS2	—	Ground terminal
40	SDUDQM	O	Upper byte input/output mask signal to the SD-RAN
41	XSDCAS	O	Column address strobe signal to the SD-RAN
42	XSDCS	O	Chip select signal to the SD-RAN
43	TEST5	—	Not used
44	XSDRAS	O	Row address strobe signal to the SD-RAN
45	SDCKE	O	Clock enable signal to the SD-RAN
46	TEST6	—	Not used
47	SDCLK	O	Clock signal to the SD-RAN
48	SDA13	O	Address signal to the SD-RAN
49	XTRST	—	Not used
50 to 52	SDA12 to SDA10	O	Address signal to the SD-RAN
53	VDIOSD2	—	Power supply terminal (+2.7V)
54	VSS3	—	Ground terminal
55	DVDD0	—	Power supply terminal (+1.3V)
56	TMS	—	Not used

Pin No.	Pin Name	I/O	Description
57, 58	SDA8, SDA9	O	Address signal to the SD-RAN
59	TDO	—	Not used
60, 61	SDA7, SDA6	O	Address signal to the SD-RAN
62	TDI	—	Not used
63, 64	SDA5, SDA4	O	Address signal to the SD-RAN
65	TEST4	—	Not used
66, 67	SDA1, SDA2	O	Address signal to the SD-RAN
68	RTCK	—	Not used
69, 70	SDA0, SDA3	O	Address signal to the SD-RAN
71	TCK	—	Not used
72	VDIOSD3	—	Power supply terminal (+2.7V)
73	VSS4	—	Ground terminal
74	VDIO1	—	Power supply terminal (+2.1V)
75	PI7/AIFBCK	—	Not used
76	PI6/AIFLRCK	—	Not used
77	PI5	O	Muting on/off control signal output to the headphone amplifier　"H": muting on
78	PI4/AIFPCMD	—	Not used
79	PI3/XBCKO	—	Not used
80	PI2/LRCKO	—	Not used
81	PI1	—	Not used
82	PI0/PCMDO	—	Not used
83	ADCLK	—	Not used
84	DOUT	—	Not used
85	PJ7/MON7 (MONCK)	—	Not used
86	PJ6/MON6 (MONDO)	—	Not used
87	PJ5/MON5	O	Amplifier power on/off control signal output to the headphone amplifier "H": amplifier power on
88 to 91	PJ4/MON4 to PJ1/MON1	—	Not used
92	XRST_PWR_O	—	Not used
93	VSS6	—	Ground terminal
94	VDIO2	—	Power supply terminal (+2.1V)
95	DVDD1	—	Power supply terminal (+1.3V)
96	AVDDA1	—	Power supply terminal (+2.7V)
97	AOUTR	O	Analog audio signal output to the headphone amplifier (R-ch)
98	VREFR	O	Reference voltage output terminal (R-ch)
99, 100	AVSDA1, AVSDA0	—	Ground terminal
101	VREFL	O	Reference voltage output terminal (L-ch)
102	AOUTL	O	Analog audio signal output to the headphone amplifier (L-ch)
103	AVDDA0	—	Power supply terminal (+2.7V)
104	AVSMO	—	Ground terminal
105	EXTAL	O	System clock output terminal (22MHz)
106	XTAL	I	System clock input terminal (22MHz)
107	AVDMO	—	Power supply terminal (+2.7V)
108	VDIOFS256	—	Power supply terminal (+2.1V)
109	DAMPCLK	—	Not used
110	VDIOAMP	—	Power supply terminal (+2.1V)
111	PWML	—	Not used
112	PWMR	—	Not used
113	VSSAMP	—	Ground terminal

Pin No.	Pin Name	I/O	Description
114	VSS7	—	Ground terminal
115	AVDPLL0	—	Power supply terminal (+2.7V)
116	AVSPLL0	—	Ground terminal
117	VDIOPLL0	—	Power supply terminal (+2V)
118	VSS8	—	Ground terminal
119	AVSPLL1	—	Ground terminal
120	AVDPLL1	—	Power supply terminal (+2.7V)
121	VDIOPLL1	—	Power supply terminal (+2V)
122	VSS9	—	Ground terminal
123	XIN	—	Not used
124	VDIO3	—	Power supply terminal (+2.1V)
125	MSDIO	—	Not used
126	DVDD2	—	Power supply terminal (+1.3V)
127, 128	PF7/DBG7, PF6/DBG6	—	Not used
129, 130	ADDSEL_0, ADDSEL_1	—	Not used
131	PF3/DBG3	—	Not used
132	PF2/DBG2	I	HOLD switch input terminal "L": hold on
133	PF1/SSCK/DBG1	—	Not used
134	PF0/SSIO/DBG0	—	Not used
135	VDIO4	—	Power supply terminal (+2V)
136	AVSSAD	—	Ground terminal
137	AVDSAD	—	Power supply terminal (+2.1V)
138	IGEN	I	Stabilized current input for operational amplifiers
139	FE (A)	I	A signal input from the optical pick-up block
140	SE (B)	I	B signal input from the optical pick-up block
141	TE (F)	I	F signal input from the optical pick-up block
142	CE (E)	I	E signal input from the optical pick-up block
143	VC	I	Middle point voltage input terminal Not used
144	RFDC (RFDCO)	I	RF signal input from the optical pick-up block
145	VSS11	—	Ground terminal
146	ASYI	I	Asymmetry comparator voltage input terminal
147	BIAS	I	Asymmetry circuit constant current input terminal
148	ASYO	O	EFM full-swing output terminal
149	AVDASM	—	Power supply terminal (+2.1V)
150	AVSASM	—	Ground terminal
151	RFACI	I	EFM signal input from the optical pick-up
152	AVDVCO	—	Power supply terminal (+2.1V)
153	VCTL	I	VCO control voltage input terminal for the wideband EFM PLL
154	CLTV	I	Internal VCO control voltage input terminal
155	AVSVCO	—	Ground terminal
156	VPCO	O	Charge pump output terminal for the wideband EFM PLL
157	FILO	O	Filter output for master PLL
158	FILI	I	Filter input for master PLL
159	PCO	O	Charge pump output for master PLL
160	VSS12	—	Ground terminal
161	DVDD3	—	Power supply terminal (+1.3V)
162	VDIODSP	—	Power supply terminal (+2V)
163	SFDR	O	Sled servo drive signal (+) output to the motor/coil drive
164	SRDR	O	Sled servo drive signal (-) output to the motor/coil drive

Pin No.	Pin Name	I/O	Description
165	TFDR	O	Tracking servo drive signal (+) output to the motor/coil drive
166	TRDR	O	Tracking servo drive signal (-) output to the motor/coil drive
167	FFDR	O	Focus servo drive signal (+) output to the motor/coil drive
168	FRDR	O	Focus servo drive signal (–) output to the motor/coil drive
169	MDP	O	Spindle motor servo drive signal output to the motor/coil drive
170	MDS	—	Not used
171	C176	O	176.4 kHz clock signal output to the motor/coil drive
172	VDIOEM0	—	Power supply terminal (+2V)
173	DVDD4	—	Power supply terminal (+1.3V)
174	VSS14	—	Ground terminal
175	PC3/XSCS0	O	Command latch signal output to the power control
176	PC2/SI0	I	Serial data input from the EEPROM
177	PC1/SO0	O	Serial data output to the power control and EEPROM
178	PC0/SCK0	O	Serial clock signal output to the power control and EEPROM
179	VSS15	—	Ground terminal
180	VDIO5	—	Power supply terminal (+2V)
181	PG7	O	Cold start flag input from the power control
182, 183	PG6, PG5	—	Not used
184	PG4	O	Reset signal output to the liquid crystal display
185, 186	PG3, PG2	—	Not used
187	PG1	O	Standby signal output to the optical pick-up block
188	PG0	O	RF gain-up signal output for CD-RW to the optical pick-up block
189, 190	DVDD5, DVDD6	—	Power supply terminal (+1.3V)
191	VSS18	—	Ground terminal
192	AVDAD	—	Power supply terminal (+2V)
193	AVSAD	—	Ground terminal
194	AN7	I	CD lid open/close switch input terminal "L": close, "H": open
195	AN6	I	Charge voltage monitor input from the power control
196	AN5	I	Battery voltage monitor input terminal
197	AN4	I	Wake up signal input from the power control Remote commander key input terminal (ZV701: E/ZV702 models only)
198	AN3	—	Not used
199, 200	AN2, AN1	I	Top panel key input terminal (A/D input)
201	AN0	I	DCIN voltage monitor input terminal
202	WAKE	I	Wake up signal input terminal
203	XADEVENT	O	Wake up signal output to the power control
204	XRST	I	System reset signal input from the power control
205, 206	DVDBK0, DVDBK1	—	Power supply terminal (+1.2V)
207	VSS19	—	Ground terminal
208	VDIO6	—	Power supply terminal (+2V)
209 to 213	PD7/INT7 to PD3/INT3	—	Not used
214	PD2/INT2/ECIN	I	FG signal input from the motor/coil drive
215	PD1/INT1/T1	O	Beep signal output to the headphone amplifier
216	PD0/INT0/EC0	—	Not used
217	PE7/XSCS1	O	Command latch signal output to the liquid crystal display
218	NCS1	—	Not used
219 to 237	A0, A19 to A1	—	Not used
238	NRD	—	Not used
239	NWE	—	Not used

Pin No.	Pin Name	I/O	Description
240 to 255	DQ15 to DQ0	—	Not used
256	VDD_FL1	—	Power supply terminal Not used
257	VSS_FL1	—	Ground terminal
258	VDD_SR1	—	Power supply terminal Not used
259	VSS_SR1	—	Ground terminal
260	VDD_SR2	—	Power supply terminal Not used
261	VSS_SR2	—	Ground terminal
262 to 272	NC	—	Not used

JACK BOARD IC401 SC901591AFR2
(FOCUS/TRACKING COIL DRIVE, SPINDLE/SLED MOTOR DRIVE, POWER CONTROL)

Pin No.	Pin Name	I/O	Description
1	COM	I	Comparator (U/V/W) negative pole input terminal
2	VMU	—	Power supply terminal (for spindle motor drive U phase)
3	UO	O	Spindle motor drive U phase output terminal
4	GNDUV	—	Ground terminal (for spindle motor drive U/V phase)
5	VO	O	Spindle motor drive V phase output terminal
6	VMVW	—	Power supply terminal (for spindle motor drive V/W phase)
7	WO	O	Spindle motor drive V phase output terminal
8	GNDW	—	Ground terminal (for spindle motor drive W phase)
9	FO3	O	Focus coil drive signal (+) output terminal
10	VM3	—	Power supply terminal (for focus coil drive)
11	RO3	O	Focus coil drive signal (–) output terminal
12	HBGND23	—	Ground terminal (for focus/tracking coil drive)
13	RO2	O	Tracking coil drive signal (–) output terminal
14	VM2	—	Power supply terminal (for tracking coil drive)
15	FO2	O	Tracking coil drive signal (+) output terminal
16	HBGND12	—	Ground terminal (for tracking coil drive and sled motor drive)
17	RO1	O	Sled motor drive signal (–) output terminal
18	VM1	—	Power supply terminal (for sled motor drive)
19	FO1	O	Sled motor drive signal (+) output terminal
20	HBGND1	—	Ground terminal (for sled motor drive)
21	TEST	—	Test mode terminal
22	RSTB	O	System reset signal output to the system controller
23	SYNC	I	176.4 kHz clock signal input from the system controller
24	WAKE	I	Wake up signal input from the system controller
25	COLDST	O	Cold start flag output to the system controller
26	CLOCK	I	Serial clock signal input from the system controller
27	DATA	I	Serial data input from the system controller
28	LATCHB	I	Command latch signal input from the system controller
29	EXTRSTB	I	External reset signal input terminal Not used
30	DCIN	—	AC adapter power supply connection terminal
31	CRF	O	Battery charge circuit error amplifier output for rechargeable battery
32	CINM	I	Battery charge circuit error amplifier invert input for rechargeable battery
33	BATM	—	Rechargeable battery minus terminal (Except ZV700: AEP models only)
34	CHGSW	O	Battery charge control transistor drive signal output for rechargeable battery (Except ZV700: AEP models only)
35	RSOSCR	—	Connection terminal of sense resistor and external resistor for internal oscillation circuit (Except ZV700: AEP models only)
36	OSCC	—	External capacitor connection terminal for internal oscillation circuit
37	RI3	I	Focus servo drive signal (–) input from the system controller
38	FI3	I	Focus servo drive signal (+) input from the system controller
39	RI2	I	Tracking servo drive signal (–) input from the system controller
40	FI2	I	Tracking servo drive signal (+) input from the system controller
41	RI1	I	Sled servo drive signal (–) input from the system controller
42	FI1	I	Sled servo drive signal (+) input from the system controller
43	CHGMON	O	Charge voltage monitor output to the system controller
44	VG	O	VG power supply output terminal (+5V) Not used
45	CINP	I	Battery charge circuit error amplifier non-invert input for rechargeable battery

Pin No.	Pin Name	I/O	Description
46	C1H	—	Capacitor connection terminal for charge pump (high side) of VG power supply circuit
47	C1L	—	Capacitor connection terminal for charge pump (low side) of VG power supply circuit
48	CPVO	I	Check terminal for phase compensation VCC0 power supply phase
49, 50	PGND2, PGND1	—	Ground terminal (for VCC0 switching power supply circuit)
51, 52	LO_2, LO_1	—	Coil connection terminal for VCC0 switching power supply circuit
53	VO0	O	VO0 voltage output terminal of switching power supply circuit Not used
54	VCC0	O	VCC0 power supply voltage output terminal (+2.7V)
55	VD_B	O	FET (bottom side) drive signal output for VD switching power supply circuit
56	VD_T	O	FET (top side) drive signal output for VD switching power supply circuit
57	VDLX	—	Coil connection terminal for VD switching power supply circuit
58	VD	I	Feed back voltage input terminal of VD switching power supply circuit
59	INPVD	I	Error amplifier non-invert input of VD switching power supply circuit
60	INP0	I	Error amplifier non-invert input of VCC0 switching power supply circuit
61	RF	—	Error amplifier connection terminal of APC circuit
62	INM	O	Error amplifier output terminal of APC circuit
63	PAPC	I	Feed back voltage input terminal of APC circuit
64	VAPC	O	Voltage output terminal of APC circuit
65	GND	—	Ground terminal
66	VREF	O	Reference voltage output terminal
67	VIN	—	Dry battery connection terminal
68	SW	—	Coil connection terminal for VCP power supply circuit
69	VCP	O	Voltage output terminal of VCP power supply circuit
70	VCC2	O	VCC2 power supply voltage output terminal (+2.1V)
71	VSTB2	O	Standby power supply (2) output terminal (+2V)
72	VSTB1	O	Standby power supply (1) output terminal (+1.2V)
73	VCC1	O	VCC1 power supply voltage output terminal (+1.3V)
74, 75	APWM, PWM	I	Spindle motor servo drive signal input from the system controller
76	FG	O	FG signal output to the system controller
77	RMCRB	O	Wake up signal output to the system controller
78	CPUI	I	Comparator (U) positive pole input terminal
79	CPVI	I	Comparator (V) positive pole input terminal
80	CPWI	I	Comparator (W) positive pole input terminal

SECTION 5
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
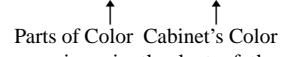
  Parts of Color   Cabinet's Color
- Accessories are given in the last of the electrical parts list.
- Refer to "COLOR VARIATION" in the "SERVICING NOTES" (page 4) about color variation of model and destination.

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

5-1. CABINET (UPPER) SECTION

cabinet (upper) assy section

cabinet (lower) section
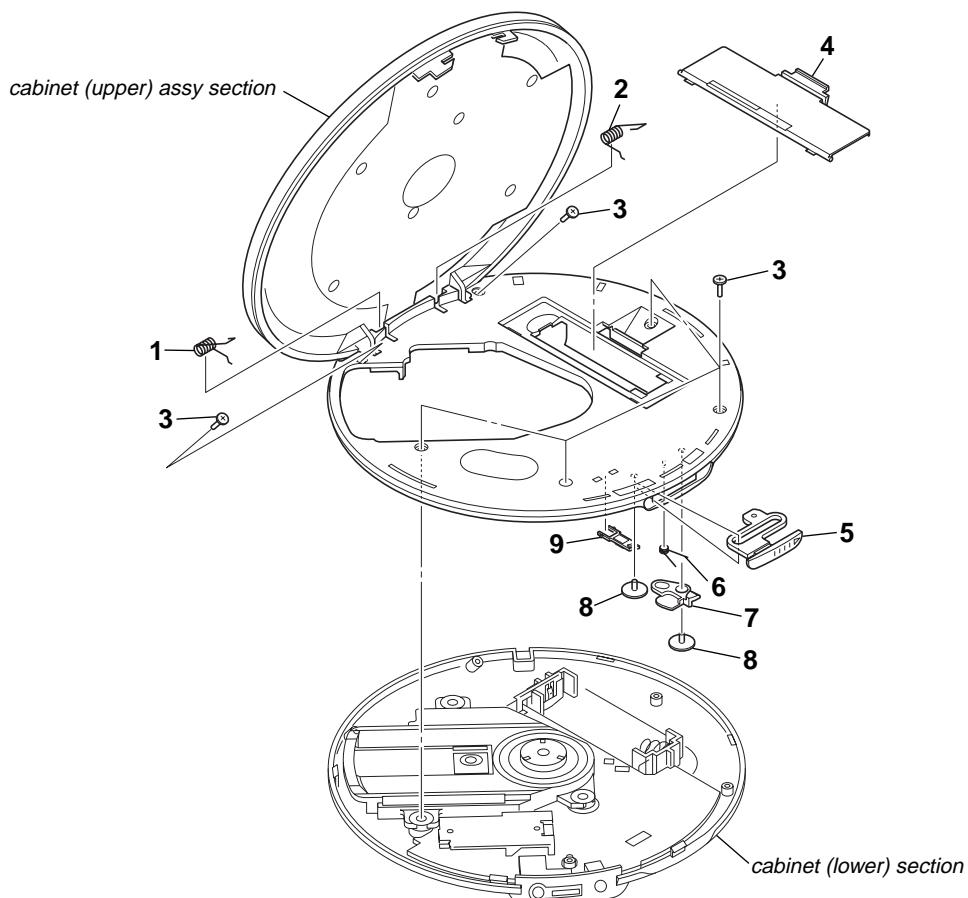
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	2-342-680-01	SPRING (FULL OPEN L)		5	2-187-912-31	KNOB (OPEN) (BLACK)	
2	2-342-679-01	SPRING (FULL OPEN R)		6	2-187-914-01	SPRING (OPEN)	
3	3-254-058-11	SCREW		7	2-187-913-01	LEVER (OPEN)	
4	2-188-316-21	LID, BATTERY CASE (WHITE)		8	3-034-792-11	SCREW, TAPPING (B2.0)	
4	2-188-316-31	LID, BATTERY CASE (BLACK)		9	3-261-240-02	LEVER (DETECTION)	
5	2-187-912-21	KNOB (OPEN) (WHITE)					

5-2. CABINET (UPPER) ASSY SECTION

Ref. No.	Part No.	Description	Remark
51	X-2050-970-1	CABINET (UPPER) SUB ASSY (W) (WHITE)	(ZV700: E)
51	X-2050-971-1	CABINET (UPPER) SUB ASSY (B) (BLACK)	(ZV700: E)
51	X-2050-973-1	CABINET (UPPER) SUB ASSY (W) (WHITE)	(ZV701)
51	X-2050-974-1	CABINET (UPPER) SUB ASSY (B) (BLACK)	(ZV701: AEP)
51	X-2050-975-1	CABINET (UPPER) SUB ASSY (W) (WHITE)	(ZV702)
51	X-2050-976-1	CABINET (UPPER) SUB ASSY (B) (BLACK)	(ZV702)
51	X-2050-977-1	CABINET (UPPER) SUB ASSY (W) (WHITE)	(ZV700: AEP)

Ref. No.	Part No.	Description	Remark
51	X-2050-978-1	CABINET (UPPER) SUB ASSY (B) (BLACK)	(ZV700: AEP)
52	2-189-517-01	BUTTON (OPERATION) (GROUP –, VOL +, GROUP +, �◄◄ , ►II ENTER, ►►I, ■, VOL –, SEARCH)	
53	2-342-711-01	SHEET (MENU), INSULATING	
54	A-1083-828-A	SWITCH BOARD, COMPLETE	
55	1-829-981-11	CABLE, FLEXIBLE FLAT (12 CORE)	
56	2-189-518-01	COVER (SW PWB) (WHITE)	
56	2-189-518-11	COVER (SW PWB) (BLACK)	
57	3-254-082-01	SCREW	
58	2-342-710-01	SHEET (OPERATION), INSULATING	
LCD1001	1-805-689-11	DISPLAY PANEL, LIQUID CRYSTAL	

5-3. CABINET (LOWER) SECTION
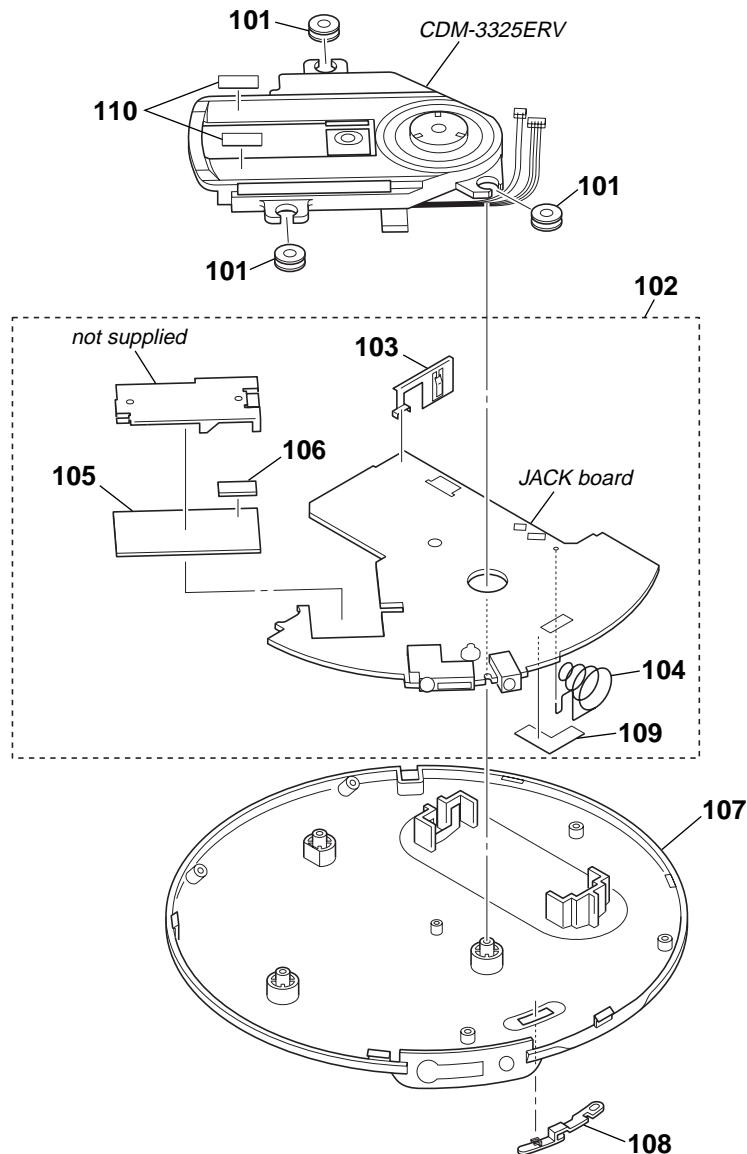
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-245-331-02	INSULATOR		104	2-187-917-11	SPRING (–), COIL (ZV700: AEP)	
102	A-1083-829-A	JACK BOARD, COMPLETE (Including EGL BOARD, COMPLETE) (ZV702)		105	A-1083-904-A	EGL BOARD, COMPLETE (Included in JACK BOARD, COMPLETE) (ZV700: AEP/ZV701: AEP/ZV702)	
102	A-1083-831-A	JACK BOARD, COMPLETE (Including EGL BOARD, COMPLETE) (ZV700: E)		105	A-1083-905-A	EGL BOARD, COMPLETE (Included in JACK BOARD, COMPLETE) (ZV700: E/ZV701: E)	
102	A-1083-832-A	JACK BOARD, COMPLETE (Including EGL BOARD, COMPLETE) (ZV701: AEP)		106	2-589-207-01	SHIELD, CUSHION	
102	A-1083-833-A	JACK BOARD, COMPLETE (Including EGL BOARD, COMPLETE) (ZV700: AEP)		107	2-187-915-51	CABINET (LOWER) (WHITE)	
102	A-1083-835-A	JACK BOARD, COMPLETE (Including EGL BOARD, COMPLETE) (ZV701: E)		107	2-187-915-61	CABINET (LOWER) (BLACK)	
				108	2-188-315-21	KNOB (HOLD) (WHITE)	
103	2-187-916-01	TERMINAL BOARD (+) (EXCEPT ZV700: AEP)		108	2-188-315-31	KNOB (HOLD) (BLACK)	
103	2-187-916-11	TERMINAL BOARD (+) (ZV700: AEP)		109	2-590-110-01	INSULATING SHEET (HOLD)	
104	2-187-917-01	SPRING (–), COIL (EXCEPT ZV700: AEP)		110	3-266-622-01	SHEET (CDM)	

5-4. OPTICAL PICK-UP SECTION (CDM-3325ERV)
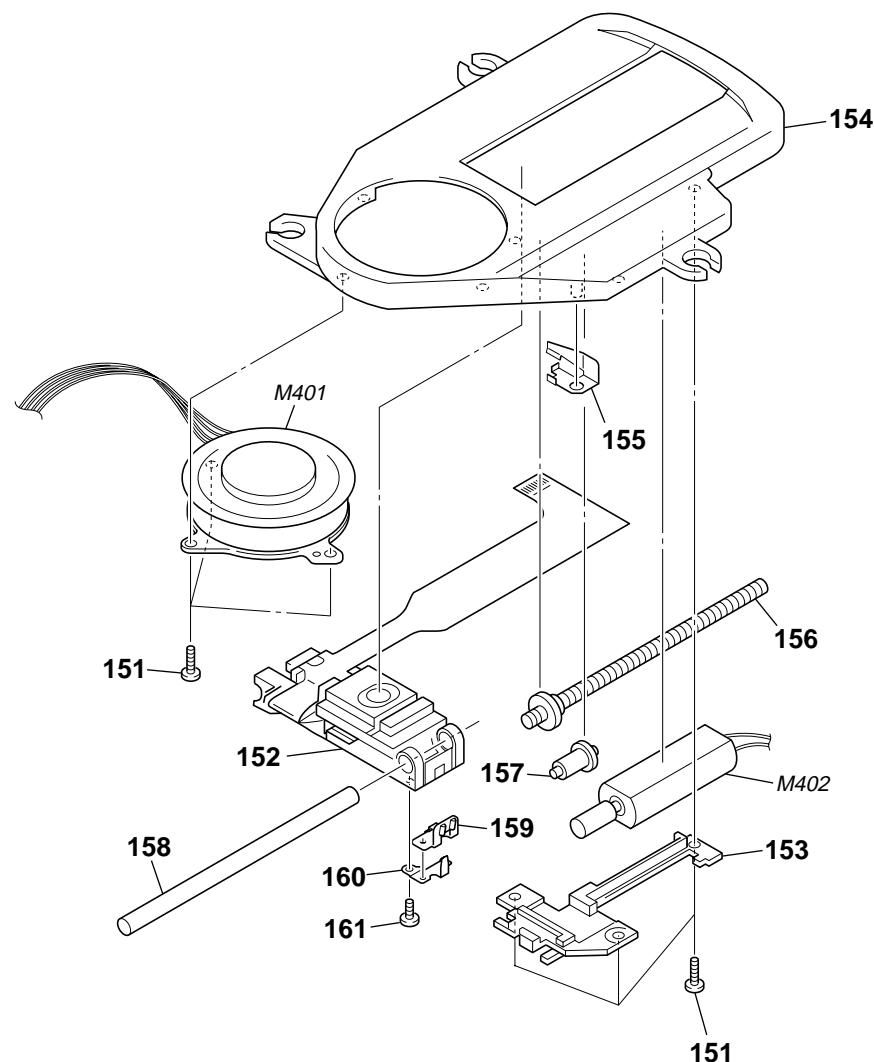
| Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark
151	3-318-203-61	SCREW (B1.7X4), TAPPING			158	3-221-475-01	SHAFT, STANDARD	
⚠ 152	X-3383-995-1	OPTICAL PICK-UP (DAX-25EV)			159	3-222-298-01	RACK	
153	3-221-473-01	COVER, GEAR			160	3-222-299-01	SPRING, RACK RETAINER	
154	3-221-472-02	CHASSIS			161	3-348-998-31	SCREW (M1.4X2.5), TAPPING, PAN	
155	3-221-474-01	SPRING, SLED			M401	A-1061-632-A	TABLE ASSY, TURN (SPINDLE)	
156	A-1061-631-A	SCREW (FEED) ASSY			M402	A-1061-630-A	MOTOR ASSY, SLED	
157	3-221-268-01	GEAR (B)						

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

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- 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: μ, for example:
  uA. . : μA. .   uPA. . : μPA. .
  uPB. . : μPB. .   uPC. . : μPC. .
  uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

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

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

- Abbreviation
  E18 : Singapore model
  E33 : Chilean and Peruvian model
- Refer to "COLOR VARIATION" in the "SERVICING NOTES" (page 4) about color variation of model and destination.

Ref. No.	Part No.	Description				Remark
	A-1083-904-A	EGL BOARD, COMPLETE				
		(ZV700: AEP/ZV701: AEP/ZV702: AEP)				
	A-1083-905-A	EGL BOARD, COMPLETE (ZV700: E/ZV701: E)				
		********************				
		(Included in JACK BOARD, COMPLETE)				
		< CAPACITOR >				
C601	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V	
C602	1-112-063-11	CERAMIC CHIP	470PF	10%	50V	
C603	1-100-661-11	TANTALUM CHIP	100uF	20%	4V	
C607	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	
C608	1-164-858-11	CERAMIC CHIP	22PF	5%	50V	
C609	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V	
C610	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C617	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V	
C618	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V	
C619	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V	
C624	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C626	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C627	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V	
C629	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C631	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C632	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C639	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C642	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C644	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C646	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C648	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C649	1-100-415-11	CERAMIC CHIP	0.47uF	10%	6.3V	
C650	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V	
C653	1-100-415-11	CERAMIC CHIP	0.47uF	10%	6.3V	
C654	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C659	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C662	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C663	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C664	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V	
C667	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C675	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C676	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C677	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C678	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V	
C680	1-164-843-11	CERAMIC CHIP	3PF	0.25PF	50V	
C686	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V	
C687	1-107-820-11	CERAMIC CHIP	0.1uF		16V	
C694	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C695	1-100-945-11	CERAMIC CHIP	4700PF	10%	25V	

Ref. No.	Part No.	Description				Remark
		< CONNECTOR >				
CN601	1-818-130-11	CONNECTOR, FFC/FPC (ZIF) 15P				
CN9002	1-818-892-11	CONNECTOR, BOARD TO BOARD 50P				
		< IC >				
@ IC603	1-789-071-21	MOUNTED PC BOARD (CXR711260-212H2)				
IC604	6-707-833-01	IC 42S16100-7TG				
IC1602	6-702-355-01	IC AK6510CL-L				
		< RESISTOR/FERRITE BEAD >				
R406	1-218-990-11	SHORT CHIP	0			
R407	1-218-990-11	SHORT CHIP	0			
R602	1-218-990-11	SHORT CHIP	0			
R603	1-218-929-11	RES-CHIP	10	5%	1/16W	
R604	1-218-929-11	RES-CHIP	10	5%	1/16W	
R606	1-218-990-11	SHORT CHIP	0			
R608	1-218-973-11	RES-CHIP	47K	5%	1/16W	
R609	1-218-969-11	RES-CHIP	22K	5%	1/16W	
R610	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R613	1-218-990-11	SHORT CHIP	0			
R614	1-218-990-11	SHORT CHIP	0			
R618	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R621	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R623	1-208-911-11	METAL CHIP	10K	0.5%	1/16W	
R624	1-208-911-11	METAL CHIP	10K	0.5%	1/16W	
R625	1-208-911-11	METAL CHIP	10K	0.5%	1/16W	
R628	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	
R629	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	
R630	1-400-461-21	FERRITE, EMI (SMD) (1005)				
R631	1-208-943-11	METAL CHIP	220K	0.5%	1/16W	
					(ZV700: E/ZV701: E)	
R632	1-218-990-11	SHORT CHIP	0			
R634	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R635	1-218-989-11	RES-CHIP	1M	5%	1/16W	
R636	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R637	1-218-981-11	RES-CHIP	220K	5%	1/16W	
R638	1-218-969-11	RES-CHIP	22K	5%	1/16W	
R639	1-218-973-11	RES-CHIP	47K	5%	1/16W	
R642	1-218-973-11	RES-CHIP	47K	5%	1/16W	
R644	1-218-929-11	RES-CHIP	10	5%	1/16W	
R647	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R649	1-218-969-11	RES-CHIP	22K	5%	1/16W	
R650	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R651	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R653	1-218-965-11	RES-CHIP	10K	5%	1/16W	

@ Replacement of IC603 used in this set requires a special tool.

XP-ZV700/ZV701/ZV702

EGL JACK

Ref. No.	Part No.	Description			Remark
R655	1-218-973-11	RES-CHIP	47K	5%	1/16W
R656	1-218-977-11	RES-CHIP	100K	5%	1/16W
R669	1-218-973-11	RES-CHIP	47K	5%	1/16W
R670	1-218-990-11	SHORT CHIP	0 (ZV700: E/ZV701: E)		
		< COMPOSITION CIRCUIT BLOCK >			
RB601	1-233-969-11	RES, NETWORK (CHIP TYPE) 22K			
		< VARISTOR >			
VDR601	1-801-862-11	VARISTOR, CHIP (1608)			
		< VIBRATOR >			
X601	1-795-392-21	VIBRATOR, CERAMIC (22MHz)			

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	A-1083-829-A	JACK BOARD, COMPLETE (ZV702)			
	A-1083-831-A	JACK BOARD, COMPLETE (ZV700: E)			
	A-1083-832-A	JACK BOARD, COMPLETE (ZV701: AEP)			
	A-1083-833-A	JACK BOARD, COMPLETE (ZV700: AEP)			
	A-1083-835-A	JACK BOARD, COMPLETE (ZV701: E)			

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(Including EGL BOARD, COMPLETE)

2-187-916-01	TERMINAL BOARD (+) (EXCEPT ZV700: AEP)
2-187-916-11	TERMINAL BOARD (+) (ZV700: AEP)
2-187-917-01	SPRING (–), COIL (EXCEPT ZV700: AEP)
2-187-917-11	SPRING (–), COIL (ZV700: AEP)
2-589-207-01	SHIELD, CUSHION
2-590-110-01	INSULATING SHEET (HOLD)

< CAPACITOR >

Ref. No.	Part No.	Description			Remark
C102	1-126-246-11	ELECT CHIP	220uF	20%	4V
C103	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C104	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C107	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C108	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C202	1-126-246-11	ELECT CHIP	220uF	20%	4V
C203	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C204	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C207	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C208	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C301	1-126-209-11	ELECT CHIP	100uF	20%	4V
C302	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C303	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C304	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C305	1-124-779-00	ELECT CHIP	10uF	20%	16V
C307	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C308	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C311	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C401	1-115-156-11	CERAMIC CHIP	1uF		10V
C402	1-126-246-11	ELECT CHIP	220uF	20%	4V
C403	1-100-507-11	CERAMIC CHIP	4.7uF	20%	6.3V
C404	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C405	1-115-156-11	CERAMIC CHIP	1uF		10V
C406	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C407	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C409	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V

Ref. No.	Part No.	Description			Remark
C410	1-128-003-11	ELECT CHIP	22uF	20%	4V
C411	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C412	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C414	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C416	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C417	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C418	1-126-208-21	ELECT CHIP	47uF	20%	4V
C419	1-128-964-11	TANTALUM CHIP	100uF	20%	6.3V
C420	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C421	1-126-209-11	ELECT CHIP	100uF	20%	4V
C422	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C423	1-126-209-11	ELECT CHIP	100uF	20%	4V
C425	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C426	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C428	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V
C429	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V
C431	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C432	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V
C433	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C434	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C435	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C436	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C437	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V (ZV701: E/ZV702)
C438	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C439	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C441	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C442	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C443	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C444	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C501	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C502	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C503	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C504	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C601	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C602	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V

< CONNECTOR >

Ref. No.	Part No.	Description
CN401	1-785-877-21	HOUSING, CONNECTOR 4P
CN402	1-784-342-21	HOUSING, CONNECTOR 2P
CN501	1-818-893-11	CONNECTOR, BOARD TO BOARD 50P
CN601	1-573-352-11	CONNECTOR, FFC/FPC 12P

< DIODE >

Ref. No.	Part No.	Description
D101	8-719-083-04	DIODE RSB6.8STE61
D201	8-719-083-04	DIODE RSB6.8STE61
D301	8-719-422-37	DIODE MA8051 (ZV701: E/ZV702)
D302	8-719-422-37	DIODE MA8051 (ZV701: E/ZV702)
D303	8-719-422-37	DIODE MA8051 (ZV701: E/ZV702)
D304	8-719-422-37	DIODE MA8051
D401	6-500-483-01	DIODE MA22D2800LS0
D402	8-719-085-43	DIODE MA2YD2300LS0
D403	8-719-083-60	DIODE UDZSTE-174.7B
D404	6-500-540-01	DIODE RB521S-30FTE61
D405	6-500-540-01	DIODE RB521S-30FTE61
D406	6-500-483-01	DIODE MA22D2800LS0
D407	6-500-540-01	DIODE RB521S-30FTE61

Ref. No.	Part No.	Description		Remark
D408	6-500-540-01	DIODE	RB521S-30FTE61	
D411	8-719-071-87	DIODE	MA785- (TX), SO	
D412	8-719-069-55	DIODE	UDZSTE-175.6B	

< FUSE >

⚠ F401	1-576-406-21	FUSE (1.4A/32V)		

< FERRITE BEAD/SHORT >

Ref. No.	Part No.	Description	
FB303	1-414-813-11	FERRITE, EMI (SMD) (2012)	
FB304	1-414-553-11	FERRITE, EMI (SMD) (2012) (ZV701: E/ZV702)	
FB306	1-500-234-22	BEAD, FERRITE (CHIP) (1608)(ZV701: E/ZV702)	
FB401	1-500-451-11	FERRITE, EMI (SMD) (4516)	
FB402	1-216-295-00	SHORT CHIP	0
FB404	1-500-451-11	FERRITE, EMI (SMD) (4516)	
FB502	1-500-234-22	BEAD, FERRITE (CHIP) (1608)	
FB601	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB602	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB603	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB604	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB605	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB606	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB607	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB608	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB609	1-216-864-11	SHORT CHIP	0

< IC >

IC301	6-700-702-01	IC	TA2152FN (EL)
IC401	6-707-304-01	IC	SC901591AFR2
IC501	6-707-315-01	IC	RT8H055C-T1

< JACK >

J301	1-818-805-11	JACK (Ω) (ZV701: E/ZV702)	
J301	1-818-810-11	JACK (Ω) (ZV700/ZV701: AEP)	
J402	1-816-936-41	JACK, DC (DC IN 3V)	

< COIL >

L101	1-400-135-11	INDUCTOR	1uH
L201	1-400-135-11	INDUCTOR	1uH
L301	1-400-145-21	INDUCTOR	47uH
L411	1-400-145-21	INDUCTOR	47uH
L412	1-400-145-21	INDUCTOR	47uH
L413	1-416-669-61	INDUCTOR	22uH (ZV701: E/ZV702)
L413	1-419-354-21	INDUCTOR	22uH (ZV700/ZV701: AEP)
L414	1-428-912-21	INDUCTOR	10uH
L415	1-469-967-21	INDUCTOR	10uH
L416	1-400-317-21	INDUCTOR	100uH
L417	1-400-145-21	INDUCTOR	47uH
L501	1-469-967-21	INDUCTOR	10uH

< TRANSISTOR >

Q401	6-550-859-01	FET	NTHD4508NT1G
Q402	6-550-760-01	TRANSISTOR	2SA1363-T111-1E
Q403	6-550-364-01	TRANSISTOR	2SD2652T106 (EXCEPT ZV700: AEP)
Q404	6-551-139-01	TRANSISTOR	DTC115TE-TL
Q408	8-729-055-85	TRANSISTOR	UMT1N-TN

Ref. No.	Part No.	Description		Remark
Q409	6-550-232-01	TRANSISTOR	2SA2029T2LQ/R (ZV701: E/ZV702)	
Q410	8-729-602-21	TRANSISTOR	2SC4154-F	

< RESISTOR >

Ref. No.	Part No.	Description			
R101	1-216-841-11	METAL CHIP	47K	5%	1/10W
R102	1-216-837-11	METAL CHIP	22K	5%	1/10W
R103	1-216-817-11	METAL CHIP	470	5%	1/10W
R104	1-218-446-11	METAL CHIP	1	5%	1/10W
R111	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R201	1-216-841-11	METAL CHIP	47K	5%	1/10W
R202	1-216-837-11	METAL CHIP	22K	5%	1/10W
R203	1-216-817-11	METAL CHIP	470	5%	1/10W
R204	1-218-446-11	METAL CHIP	1	5%	1/10W
R211	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R301	1-216-809-11	METAL CHIP	100	5%	1/10W
R305	1-216-864-11	SHORT CHIP	0 (ZV700/ZV701: AEP)		
R402	1-216-833-11	METAL CHIP	10K	5%	1/10W (ZV701: E/ZV702)
R403	1-216-861-11	METAL CHIP	2.2M	5%	1/10W
R404	1-216-849-11	METAL CHIP	220K	5%	1/10W
R405	1-216-841-11	METAL CHIP	47K	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R409	1-245-455-21	METAL CHIP	0.47	1%	1/5W (EXCEPT ZV700: AEP)
R410	1-216-864-11	SHORT CHIP	0		
R411	1-216-841-11	METAL CHIP	47K	5%	1/10W
R412	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R413	1-216-841-11	METAL CHIP	47K	5%	1/10W
R415	1-216-841-11	METAL CHIP	47K	5%	1/10W
R416	1-216-809-11	METAL CHIP	100	5%	1/10W
R417	1-216-864-11	SHORT CHIP	0		
R418	1-245-455-21	METAL CHIP	0.47	1%	1/5W (EXCEPT ZV700: AEP)
R419	1-216-813-11	METAL CHIP	220	5%	1/10W
R420	1-216-813-11	METAL CHIP	220	5%	1/10W (EXCEPT ZV700: AEP)
R421	1-218-871-11	METAL CHIP	10K	0.50%	1/10W
R423	1-216-809-11	METAL CHIP	100	5%	1/10W
R424	1-216-849-11	METAL CHIP	220K	5%	1/10W (ZV701: E/ZV702)
R425	1-216-849-11	METAL CHIP	220K	5%	1/10W (ZV701: E/ZV702)
R426	1-216-853-11	METAL CHIP	470K	5%	1/10W (ZV701: E/ZV702)
R428	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R429	1-216-813-11	METAL CHIP	220	5%	1/10W
R430	1-216-813-11	METAL CHIP	220	5%	1/10W
R431	1-216-864-11	SHORT CHIP	0		
R432	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT ZV700: AEP)
R433	1-216-837-11	METAL CHIP	22K	5%	1/10W
R438	1-216-845-11	METAL CHIP	100K	5%	1/10W
R439	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R440	1-216-821-11	METAL CHIP	1K	5%	1/10W
R441	1-216-833-11	METAL CHIP	10K	5%	1/10W
R442	1-216-841-11	METAL CHIP	47K	5%	1/10W
R443	1-216-837-11	METAL CHIP	22K	5%	1/10W
R451	1-216-845-11	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R455	1-216-864-11	SHORT CHIP	0		
R456	1-216-845-11	METAL CHIP	100K	5%	1/10W
R457	1-216-864-11	SHORT CHIP	0		
R502	1-216-864-11	SHORT CHIP	0		
R504	1-216-857-11	METAL CHIP	1M	5%	1/10W
R507	1-216-864-11	SHORT CHIP	0		
		< SWITCH >			
S501	1-572-922-11	SWITCH, SLIDE (HOLD)			
S502	1-762-805-41	SWITCH, PUSH (1 KEY) (OPEN)			
		< THERMISTOR >			
TH401	1-805-719-11	THERMISTOR, POSITIVE			
		< VARISTOR >			
VDR309	1-801-862-11	VARISTOR, CHIP (1608) (ZV701: E/ZV702)			
VDR401	1-801-864-21	VARISTOR, CHIP (1608)			

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| | A-1083-828-A | SWITCH BOARD, COMPLETE | | | |

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	1-829-981-11	CABLE, FLEXIBLE FLAT (12 CORE)			
		< CAPACITOR >			
C1001	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1002	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1003	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1004	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1005	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1006	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1007	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1008	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C1010	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1011	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C1012	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
		< CONNECTOR >			
CN1001	1-778-171-21	CONNECTOR, FFC/FPC (ZIF) 23P			
CN1002	1-778-160-11	CONNECTOR, FFC/FPC (ZIF) 12P			
		< LIQUID CRYSTAL DISPLAY >			
LCD1001	1-805-689-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< RESISTOR >			
R1001	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1002	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1003	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1004	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1005	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1101	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1102	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1103	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1104	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1105	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1107	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1108	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1109	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1110	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1111	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1112	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1113	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1114	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1135	1-216-864-11	SHORT CHIP	0		
		< SWITCH >			
S1001	1-786-650-21	SWITCH, TACTILE (GROUP –)			
S1002	1-786-650-21	SWITCH, TACTILE (GROUP+)			
S1003	1-786-650-21	SWITCH, TACTILE (◄, I◄◄)			
S1004	1-786-650-21	SWITCH, TACTILE (►►I, ►)			
S1005	1-786-650-21	SWITCH, TACTILE (►II, ENTER)			
S1007	1-786-650-21	SWITCH, TACTILE (DISPLAY, MENU)			
S1008	1-786-650-21	SWITCH, TACTILE (CHG, ■)			
		(EXCEPT ZV700: AEP)			
S1008	1-786-650-21	SWITCH, TACTILE (■) (ZV700: AEP)			
S1009	1-786-650-21	SWITCH, TACTILE (▲, VOL +)			
S1010	1-786-650-21	SWITCH, TACTILE (VOL –, ▼)			
S1011	1-786-650-21	SWITCH, TACTILE (SEARCH)			
		< VARISTOR >			
VDR1001	1-801-862-11	VARISTOR, CHIP (1608)			

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MISCELLANEOUS

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⚠152	X-3383-995-1	OPTICAL PICK-UP (DAX-25EV)			
M401	A-1061-632-A	TABLE ASSY, TURN (SPINDLE)			
M402	A-1061-630-A	MOTOR ASSY, SLED			

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ACCESSORIES

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⚠	1-569-007-12	ADAPTOR, CONVERSION 2P (ZV700: E33)			
	2-348-288-11	MANUAL, INSTRUCTION (ENGLISH)			
	2-348-288-21	MANUAL, INSTRUCTION (FRENCH, SPANISH)			
		(EXCEPT ZV700: E18/ZV701: E18)			
	2-348-288-31	MANUAL, INSTRUCTION (GERMAN, ITALIAN, HUNGARIAN) (ZV700: AEP/ZV701: AEP/ZV702)			
	2-348-288-41	MANUAL, INSTRUCTION (POLISH, CZECH, RUSSIAN) (ZV700: AEP/ZV701: AEP/ZV702)			
	2-348-288-51	MANUAL, INSTRUCTION (SIMPLIFIED CHINESE) (ZV700: E18/ZV701: E18)			
	2-348-289-11	MANUAL (SS), INSTRUCTION (Installation/Operating Guide) (ENGLISH)			
	2-348-289-21	MANUAL (SS), INSTRUCTION (Installation/Operating Guide) (SPANISH) (EXCEPT ZV700: E18/ZV701: E18)			
	2-348-289-31	MANUAL (SS), INSTRUCTION (Installation/Operating Guide) (FRENCH) (ZV700: AEP/ZV701: AEP/ZV702)			
	2-348-289-41	MANUAL (SS), INSTRUCTION (Installation/Operating Guide) (GERMAN, ITALIAN, HUNGARIAN) (ZV700: AEP/ZV701: AEP/ZV702)			

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

Ref. No.	Part No.	Description	Remark
	2-348-289-51	MANUAL (SS), INSTRUCTION (Installation/Operating Guide) (POLISH, CZECH, RUSSIAN) (ZV700: AEP/ZV701: AEP/ZV702)	
	2-348-289-61	MANUAL (SS), INSTRUCTION (Installation/Operating Guide) (SIMPLIFIED CHINESE) (ZV700: E18/ZV701: E18)	
⚠ 501	1-478-848-11	ADAPTOR, AC (AC-ES3010K2) (ZV700: E18/ZV701/ZV702)	
⚠ 501	1-478-853-12	ADAPTOR, AC (AC-ES3010K2) (ZV700: E33)	
502	1-542-514-13	HEADPHONE (HP-M070) (for BLACK) (ZV700: E18)	
502	1-542-514-21	HEADPHONE (HP-M070) (for WHITE) (ZV700: E18)	
502	1-542-529-21	HEADPHONE (HP-M170) (for WHITE)(ZV701: E)	
503	8-912-734-90	EARPHONES HP-SC021SP/WC SET (for WHITE) (ZV702)	
503	8-912-737-90	EARPHONES HP-SC021LP/WC SET (for WHITE) (ZV700: E33, AEP/ZV701: AEP)	
503	8-912-739-90	HEADPHONE HP-SC021SP/BC SET (for BLACK) (ZV702)	
503	8-912-740-90	HEADPHONE HP-SC021LP/BC SET (for BLACK) (ZV700: E33, AEP/ZV701: AEP)	
504	1-478-544-11	REMOTE COMMANDER (RM-Z1C006) (for BLACK) (ZV702)	
504	1-478-544-21	REMOTE COMMANDER (RM-Z1C006) (for WHITE) (ZV701: E18/ZV702)	
505	1-543-798-31	FILTER, CLAMP (FERRITE CORE) (ZV700: AEP)	
506	1-756-317-22	BATTERY, NICKEL HYDROGEN (NH-7WMAA) (ZV701: E18)	
507	3-223-571-01	CASE, BATTERY CARRYING (ZV701: E18)	
508	X-2055-011-1	APPLICATION (SS2.3) (CD-ROM) ASSY (SonicStage)(in envelope)	
508	X-2055-012-1	APPLICATION (SS2.3) (CD-ROM) ASSY (SonicStage)(in polyethylene bag)	
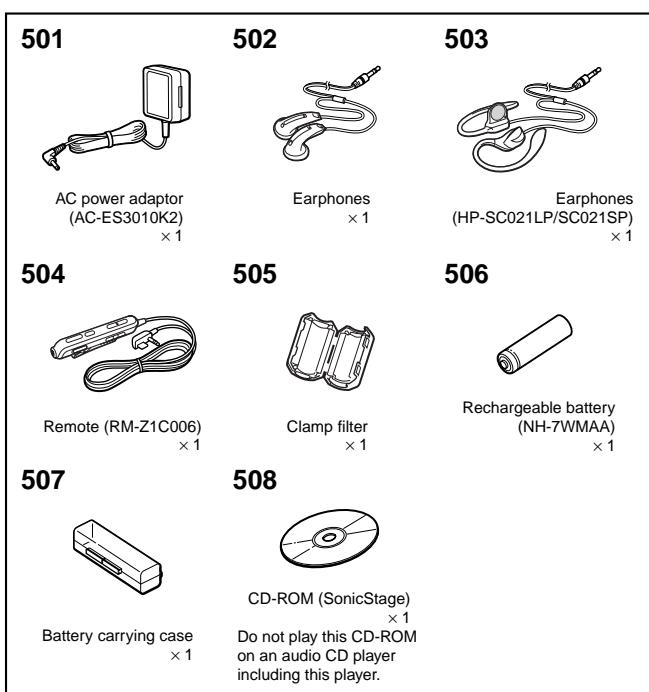
501 AC power adaptor (AC-ES3010K2) × 1

502 Earphones × 1

503 Earphones (HP-SC021LP/SC021SP) × 1

504 Remote (RM-Z1C006) × 1

505 Clamp filter × 1

506 Rechargeable battery (NH-7WMAA) × 1

507 Battery carrying case × 1

508 CD-ROM (SonicStage) × 1
Do not play this CD-ROM on an audio CD player including this player.

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

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2005.01	New