

JVC

SERVICE MANUAL

PORTABLE CD PLAYER

XL-PM11/XL-PM1



Area Suffix

XL-PM11

C ----- Canada

Area Suffix

XL-PM1

J ----- U.S.A.

C ----- Canada

B ----- U.K.

E ----- Continental Europe

Model XL-PM11 is an exclusive use for Canada. As for the difference between XL-PM11 and XL-PM1, the packing specification is different.

| | XL-PM11 | XL-PM1 |
|---------|----------|--------------|
| PACKING | Gift box | Blister pack |

Contents

| | | | |
|-------------------------------------|-----|--------------------------------|----------|
| Safety Precautions | 1-2 | Explanation of MP3 | 1-8 |
| Important for laser products | 1-3 | Description of major ICs | 1-9 |
| Preventing static electricity | 1-4 | Parts list | 1-13 ~18 |
| Disassembly method | 1-5 | | |
| Troubleshooting | 1-7 | | |

Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (\triangle) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

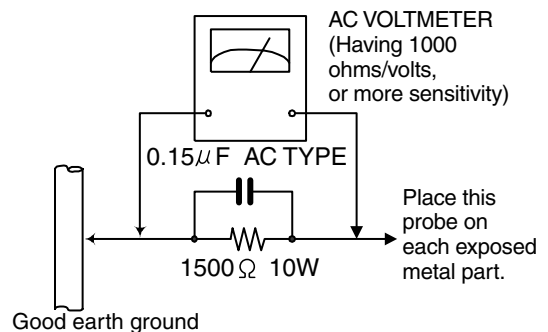
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).

- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

CAUTION

Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (\blacksquare), diode (\blacksquare) and ICP (\bullet) or identified by the " \triangle " mark nearby are critical for safety.

When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer. (Except the J and C version)

Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The compact disc player uses invisible laserradiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

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

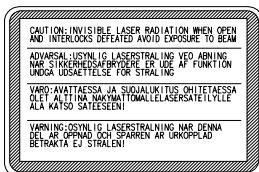


CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

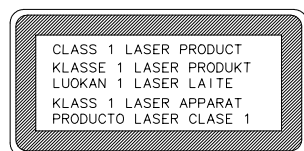
Reproduction and position of labels

B, E version

WARNING LABEL



CLASS 1 LASER PRODUCT



(Cabinet -bottom)



(Cabinet -door/ inside)



J, C version

DHHS LABEL



Preventing static electricity

1. Grounding to prevent damage by static electricity

Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

2. About the earth processing for the destruction prevention by static electricity

In the equipment which uses optical pick-up (laser diode), optical pick-up is destroyed by the static electricity of the work environment.

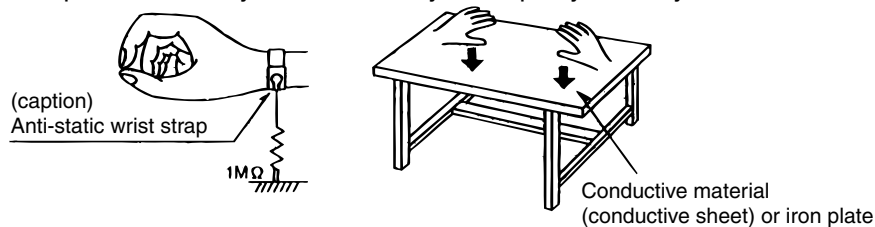
Be careful to use proper grounding in the area where repairs are being performed.

2-1 Ground the workbench

Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

2-2 Ground yourself

Use an anti-static wrist strap to release any static electricity built up in your body.



3. Handling the optical pickup

1. In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)

2. Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

4. Handling the traverse unit (optical pickup)

1. Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.

2. Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.

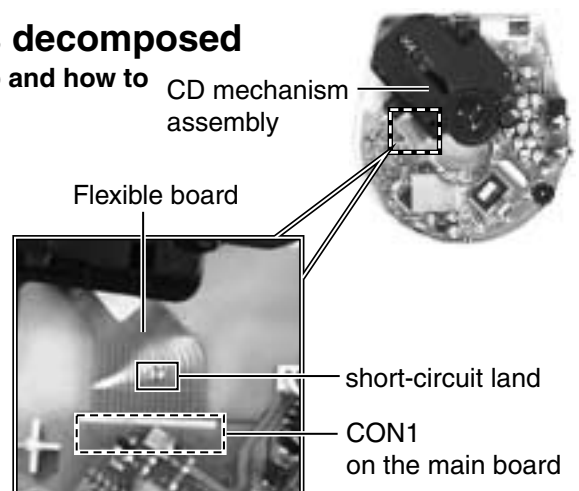
3. Handle the flexible cable carefully as it may break when subjected to strong force.

4. It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

Attention when CD mechanism assembly is decomposed

***Please refer to "Disassembly method" in the text for pick-up and how to detach the CD mechanism assembly.**

1. Remove the door & middle cabinet.
2. Solder the short-circuit land on the flexible board, before the flexible board is removed from connector CON1 on the main board.
(When the flexible board is removed without putting up solder, the CD mechanism assembly might destroy.)
3. Please unsolder the short-circuit land after connecting the flexible board with the CON1 on the main board, when you install CD mechanism assembly in the substrate.



Disassembly method

■ Removing the cabinet -door & cabinet -middle (See Fig.1 to 4)

1. Remove the two screws **A** attaching the cabinet -door on the back of the body.
2. Remove the two screws **B** on the cabinet -bottom.
3. Remove the three screws **C** attaching the cabinet -middle and remove the cabinet -middle from the cabinet -bottom.

ONE POINT: Flexible board is bonded with couple-face tapes internally in the cabinet -middle.

4. Disconnect the flexible board from connector FRW000 on the main board, and remove the cabinet -door with cabinet -middle.

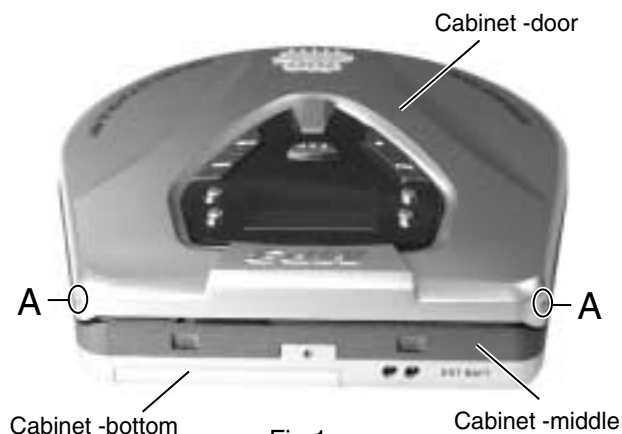


Fig.1



Fig.2 (The photograph is one of the B and E version.)

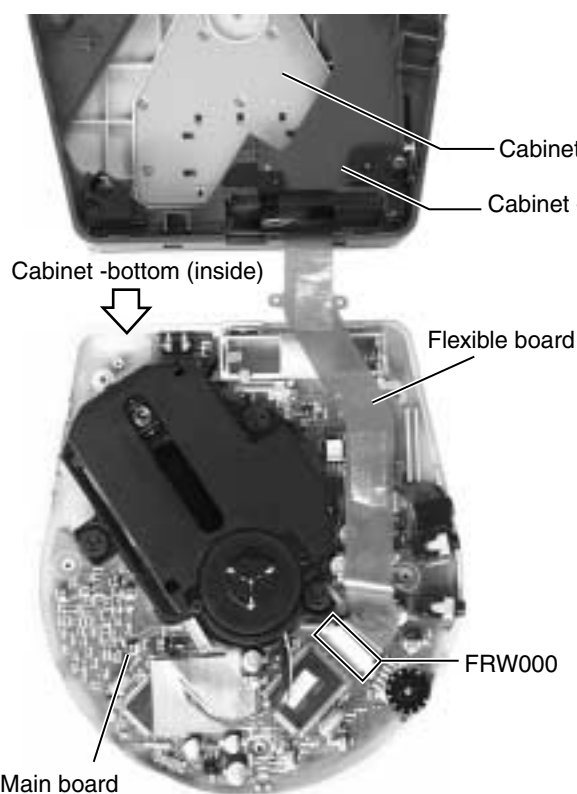


Fig.4

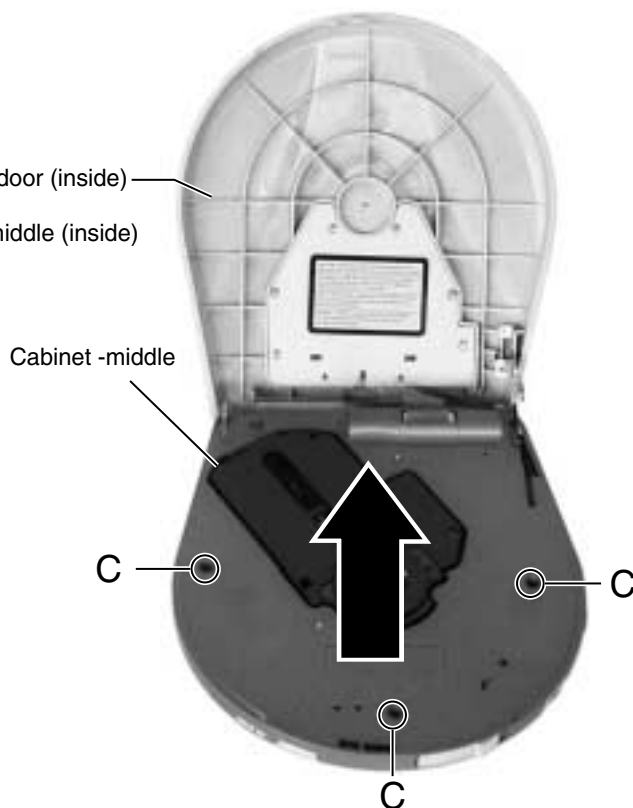
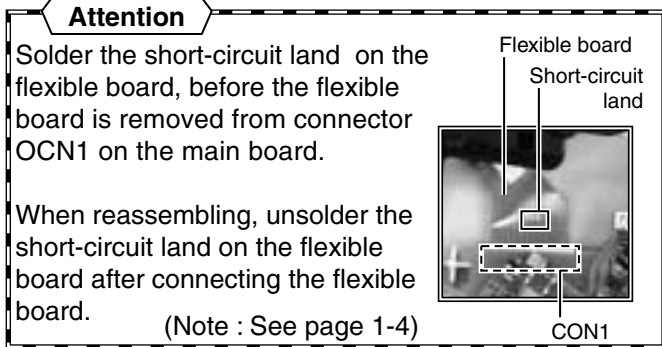


Fig.3 (The photograph is one of the B and E version.)

■ Removing the CD mechanism (See Fig.5)

- Prior to performing the following procedure, remove the cabinet -door and cabinet -middle.

1. Disconnect the harness(motor) from connector CON2(MOW000) on the main board .
2. Disconnect the flexible board(pick-up) from connector CON1 on the main board and remove the CD mechanism.



ONE POINT : Flexible board is bonded with a couple-face tape on the bottom cabinet.

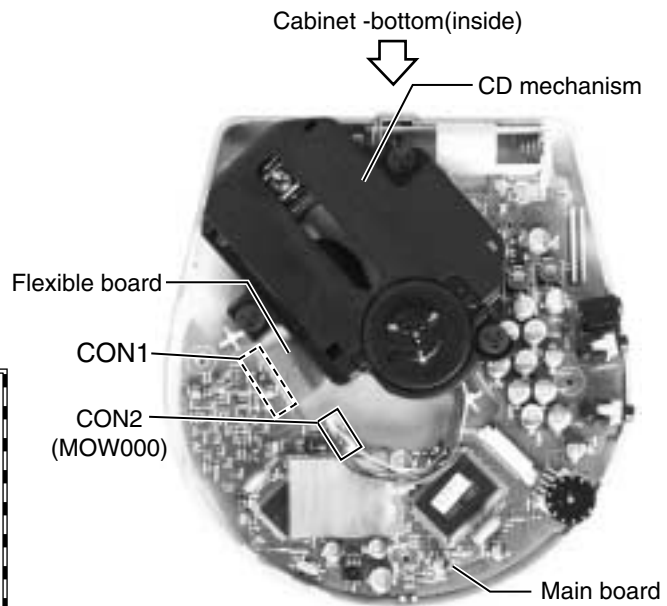


Fig.5

■ Removing the main board & EXT battery terminal board (See Fig.6)

- Prior to performing the following procedure, remove the cabinet -door, cabinet -middle and CD mechanism.

1. Remove the screw **D** attaching the EXT battery terminal board, and remove the main board with the EXT battery terminal board.

■ Removing the system control board (See Fig.7a and 7b)

- Prior to performing the following procedure, remove the cabinet -door and cabinet -middle.

1. Remove the eight screws **E** attaching the metal cover (Peel off the warning label if necessary).
2. Remove the metal cover and system control board.
3. Disconnect the flexible board from connector CON4 on the system control board.

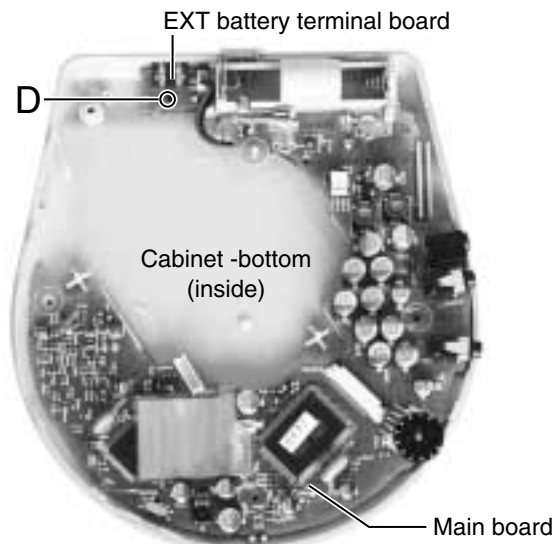


Fig.6

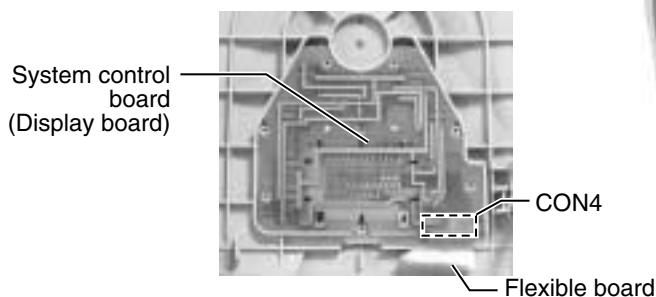


Fig.7b

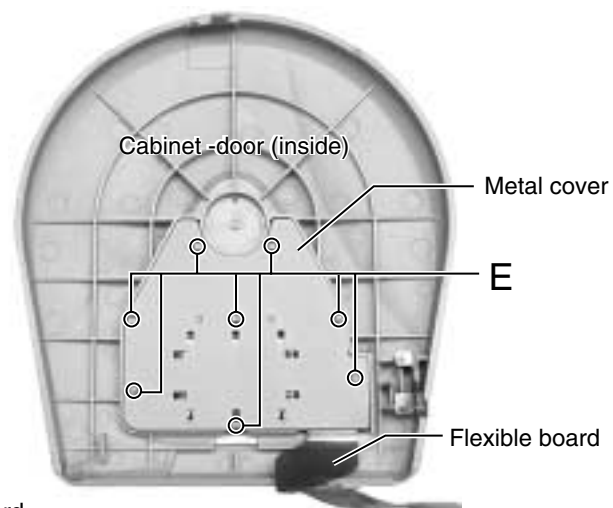
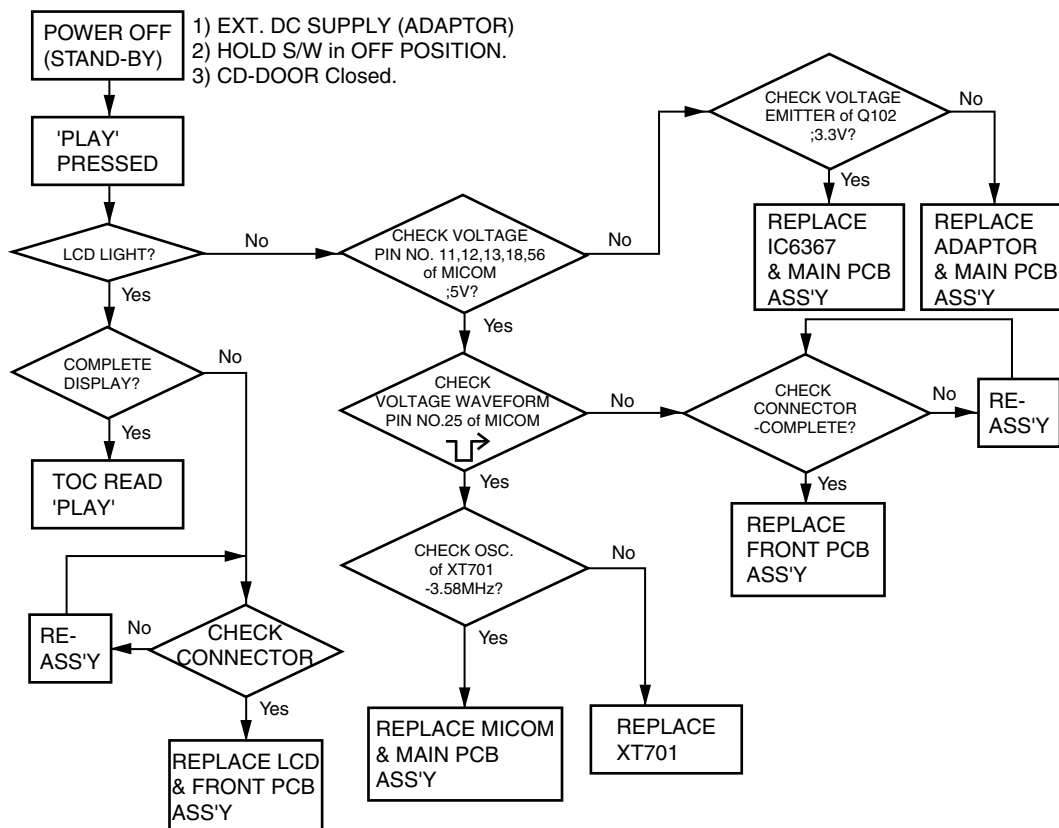


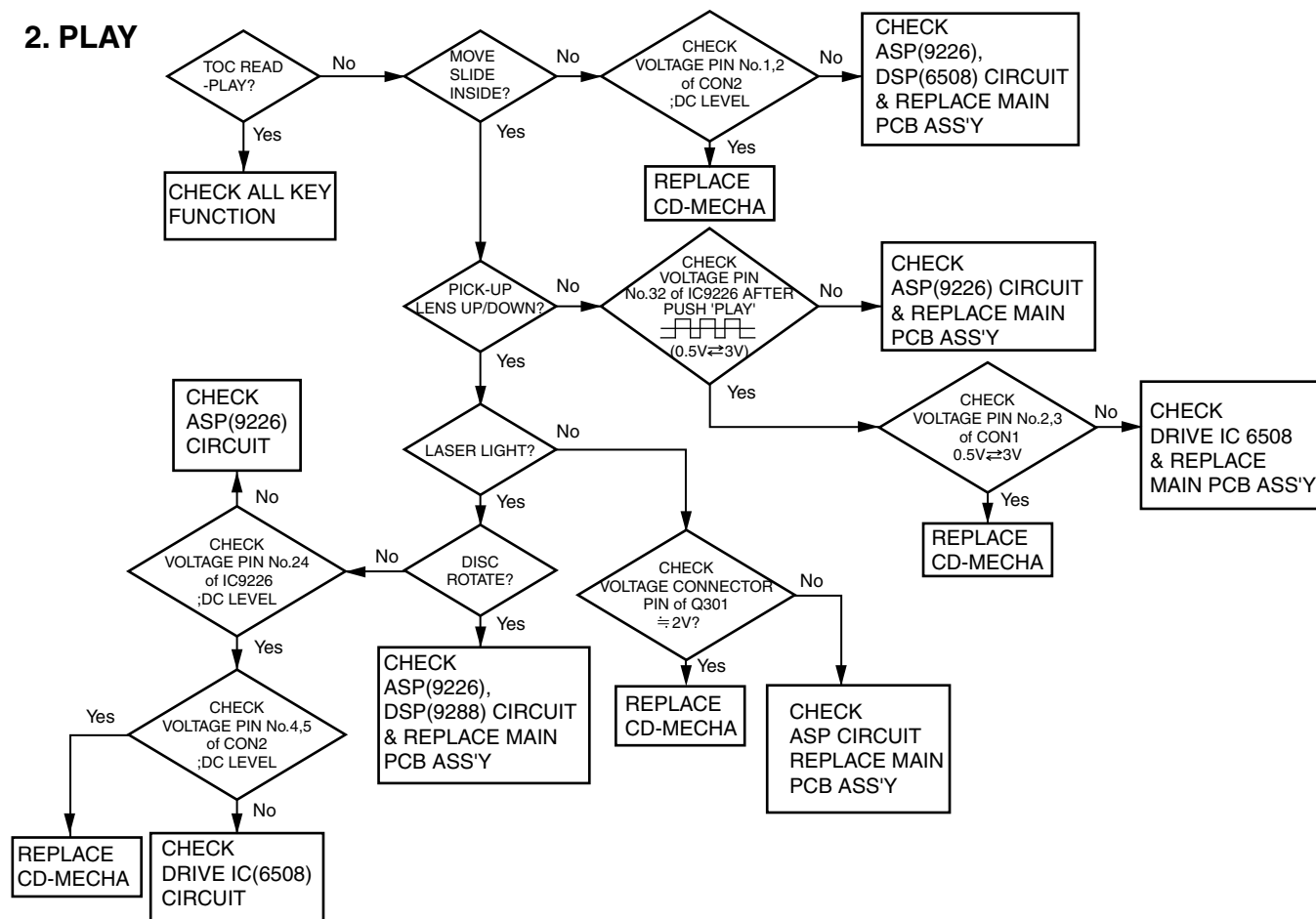
Fig.7a

Troubleshooting

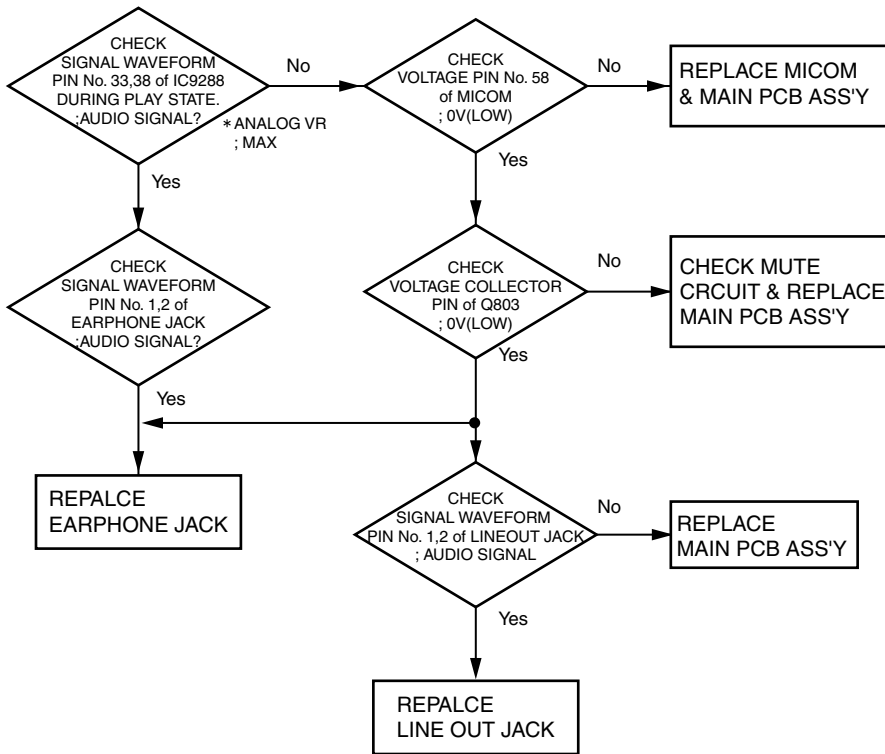
1. POWER / KEY



2. PLAY



3. AUDIO OUTPUT (LINE OUT, EARPHONE OUT)



Explanation of MP3

MP3 (MPEG-1 Audio Layer 3)

An audio compression format that is part of the MPEG-1 specification, which was standardized by the Moving Picture Experts Group, a working group of ISO (International Organization for Standardization), in 1992.

MPEG-1, which is used by VideoCDs, etc., refers to the international standard for audio/video compression technology and its format. The audio part of the standard is known as MPEG-1Audio (ISO/IEC 11172-3).

MPEG-1 Audio is an audio coding system that can efficiently compress sound by discarding frequencies below the range of human hearing(1), as well as sound which is masked(2). MPEG-1Audio is divided into three layers: Layer 1, Layer 2 and Layer 3. The higher the Layer number, the higher the compression rate and the better the sound quality.

32 kHz, 44.1 kHz and 48 kHz sampling rates are supported. Monaural and 2-channel stereo can be compressed to 32-448 kbps with Layer 1, 32-384 kbps with Layer 2 and 32-320kbps with Layer 3.

The following is a summary of each Layer:

Layer 3

To create efficiently compressed audio data that is perceptually the same as the original, the following modes have been added to Layer 2.

MDCT (Modified Diskrete Cosine Transform) for subdivision of bandwidth.

Huffman coding that assigns the short bit to the data that frequently appears, and the long bit to the data that does not appear much.

MS (Middle/Side) stereo coding(3) that divides the stereo signal into the sum signal (L+R) and the difference signal (L-R).

(1) The human ear cannot detect sound above or below 3 kHz in the silent situation.

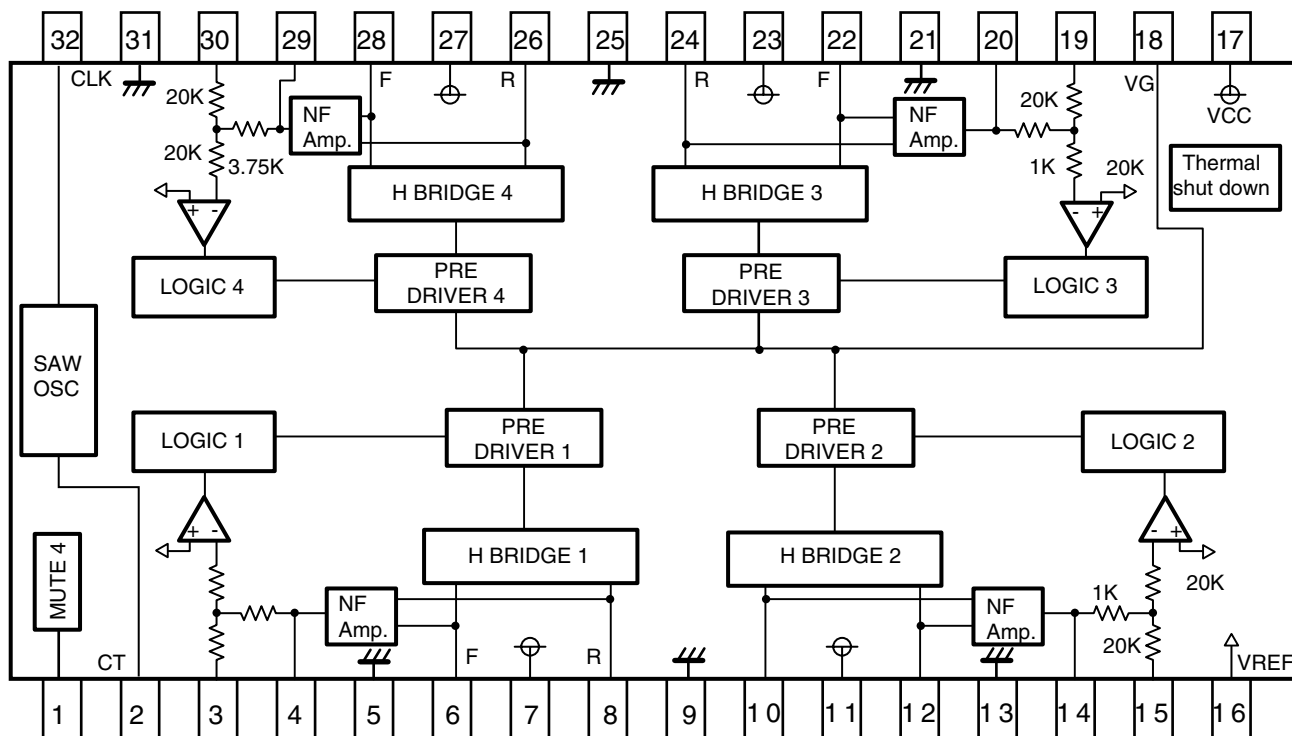
(2) Auditory masking is the phenomenon where low-frequency sound that occurs immediately after a loud sound cannot be heard by the human ear.

(3) Joint stereo coding that compresses 2 channels separately or recognizes only the scale factor of each channel that is compressed by monaural encoding is used in Layer 1 and 2.

Description of major ICs

■ BH6508FS (IC6508) : Motor driver

1. Block diagram



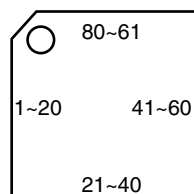
2. Pin function

| Pin No. | Symbol | Function | Pin No. | Symbol | Function |
|---------|----------|------------------------------------|---------|----------|-----------------------------------|
| 1 | MUTE 4 | Mute terminal | 17 | VCC | Control circuit power supply |
| 2 | CT | Triangular wave output terminal | 18 | VG | Pre-drive circuit power supply |
| 3 | IN 1 | CH1 Control signal input terminal | 19 | IN3 | CH3 Control signal input terminal |
| 4 | CN 1 | CH1 Feedback filter terminal | 20 | CN3 | CH3 Feedback filter terminal |
| 5 | POWGND 1 | Ground for power and analog block | 21 | POWGND3 | Ground for power block |
| 6 | OUT_IF | CH1 Non-inverted output terminal | 22 | OUT_3F | CH3 Non-inverted output terminal |
| 7 | POWVCC 1 | Vcc for power block | 23 | POWVCC3 | Vcc for power block |
| 8 | OUT_1R | CH1 Inverted output terminal | 24 | OUT_3R | CH3 inverted output terminal |
| 9 | POWGND12 | Ground for power block | 25 | POWGND34 | Ground for power block |
| 10 | OUT_2R | CH2 Inverted output terminal | 26 | OUT_4R | CH4 inverted output terminal |
| 11 | POWVCC2 | Vcc for power block | 27 | POWVCC4 | Vcc for power block |
| 12 | OUT_2F | CH2 Non-inverted output terminal | 28 | OUT_4F | CH4 Non-inverted output terminal |
| 13 | POWGND 2 | Ground for power and digital block | 29 | CN4 | CH4 Feedback filter terminal |
| 14 | CN 2 | CH2 Feedback filter terminal | 30 | IN4 | CH4 Control signal input terminal |
| 15 | IN 2 | CH2 Control signal input terminal | 31 | POWGND4 | Ground for power block |
| 16 | VREF | Reference voltage input terminal | 32 | CLK | External clock input terminal |

Note: Nin-inverted output and inverted output if driver are the polarity to an input terminal.

■ KS9288 (IC9288) : DSP/ ESP

1.Pin layout



2. Pin function

(1/2)

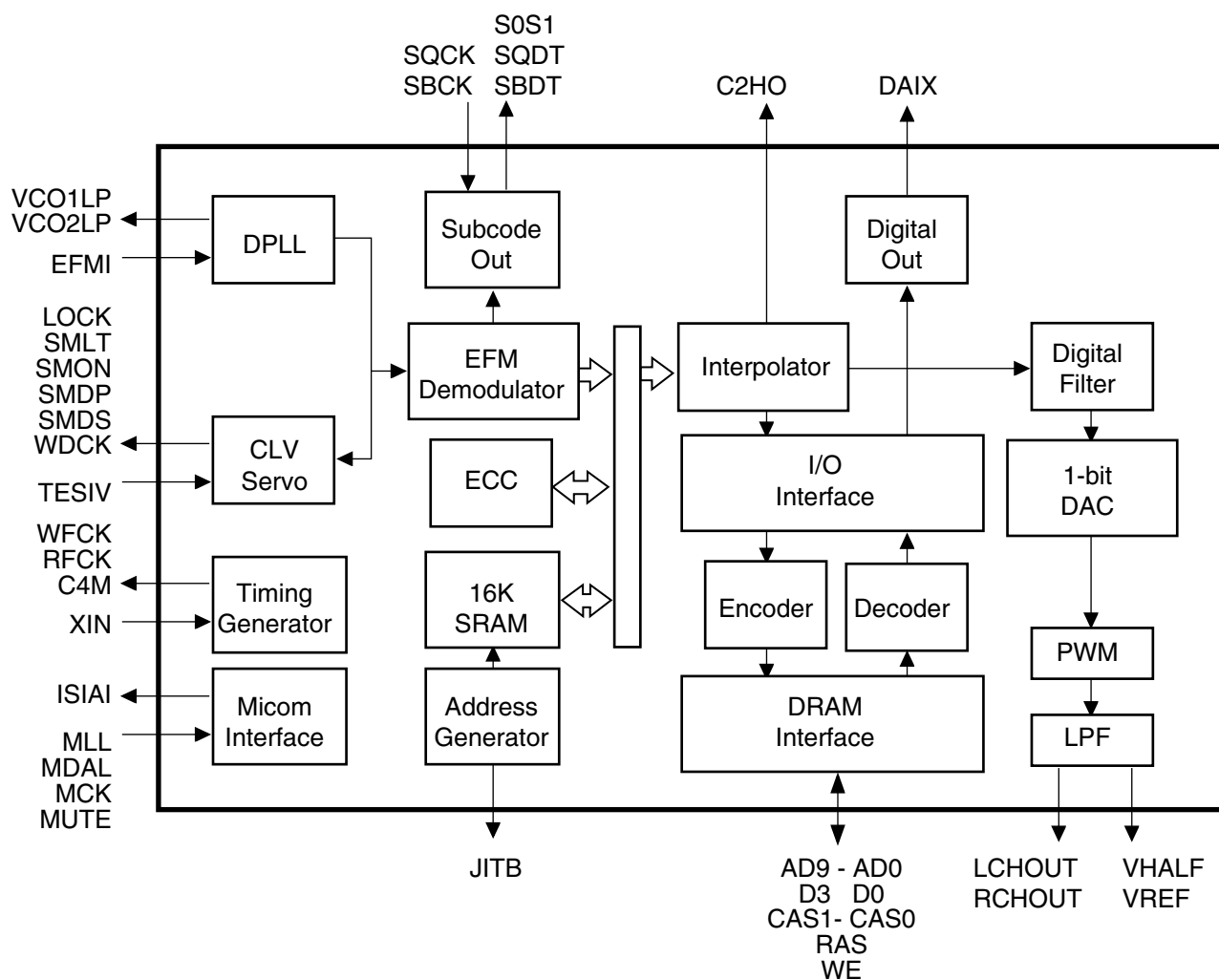
| Pin No. | Symbol | I/O | Function |
|---------|----------|-----|---|
| 1 | VDD_PLL | - | Analog Power for DPLL |
| 2 | VSSA_PLL | - | Analog Ground for DPLL |
| 3 | VBBA_PLL | - | Analog Bulk Bias Ground for DPLL |
| 4 | VCO1LF | O | Pump out for VCO1 |
| 5 | VCO2LF | O | Pump out for VCO2 |
| 6 | VSSD_PLL | - | Digital Ground Separated Bulk Bias for DPLL |
| 7 | VDDD_PLL | - | Digital Power Separated Bulk Bias for DPLL |
| 8 | PBCK | - | VCO1/2 clock output (4.3218MHz) |
| 9 | VDDD1 | - | Digital Power |
| 10 | XIN | I | X'tal oscillator input (16,9344MHz) |
| 11 | XOUT | O | X'tal oscillator output |
| 12 | VSSD1 | - | Digital Power |
| 13 | TEST0 | I | Test input |
| 14 | EFMI | I | EFM signal input |
| 15 | LOCK | O | CLV Servo locking status output |
| 16 | SMEF | O | LPF time constant control of the spindle servo error signal |
| 17 | SMON | O | ON/OFF control signal for spindle servo |
| 18 | SMDP | O | Phase control output for Spindle Motor drive |
| 19 | SMDS | O | Speed control output for Spindle Motor drive |
| 20 | WDCK | O | Word clock output (X1: 88.2KHz, X2: 176.4KHz) |
| 21 | VDDD2 | - | Digital Power |
| 22 | TESTV | I | Various Test input |
| 23 | WFCK | O | Write base clock output |
| 24 | LKFS | O | The Lock status output of frame sync |
| 25 | RESETB | I | System Reset at 'L' |
| 26 | MLT | I | Latch signal input from Micom |
| 27 | MDAT | I | Serial data input from Micom |
| 28 | MCK | I | Serial data receiving clock input from Micom |
| 29 | ISTAT | O | The internal stats output to Micom |
| 30 | SOS1 | I/O | Subcode sync signal (S0+S1) output |
| 31 | SQCK | I | Subcode-Q data transferring bit clock input |
| 32 | SQDT | O | Subcode-Q data serial output |
| 33 | LCHOUT | O | Left-Channel audio output through DAC |
| 34 | VDDA_DAC | - | Analog Power for DAC |
| 35 | VHALF | O | Reference Voltage output for bypass |
| 36 | VREF | O | Reference Voltage output for bypass |
| 37 | VSSA_DAC | - | Analog Power for DAC |
| 38 | RCHOUT | O | Right-Channel audio output through DAC |
| 39 | VDDD_DAC | - | Digital Power for DAC |
| 40 | VSSD_DAC | - | Digital Ground for DAC |
| 41 | TEST1 | I | Test Input |
| 42 | TEST2 | I | Test Input |
| 43 | TEST3 | I | Test Input |
| 44 | MUTE | I | System mute at 'H' |
| 45 | SBCK | I | Subcode data transferring bit clock |
| 46 | SBDT | I/O | Subcode data serial output |
| 47 | C4M | O | 4.2336MHz clock output |
| 48 | VSSD2 | - | Digital Ground |
| 49 | VDDD3 | - | Digital Power |
| 50 | DATX | O | Digital audio data output |
| 51 | JITB | I/O | Internal SRAM filter margin status output |
| 52 | C2PO | I/O | C2 Pointer output |

2. Pin function

(2/2)

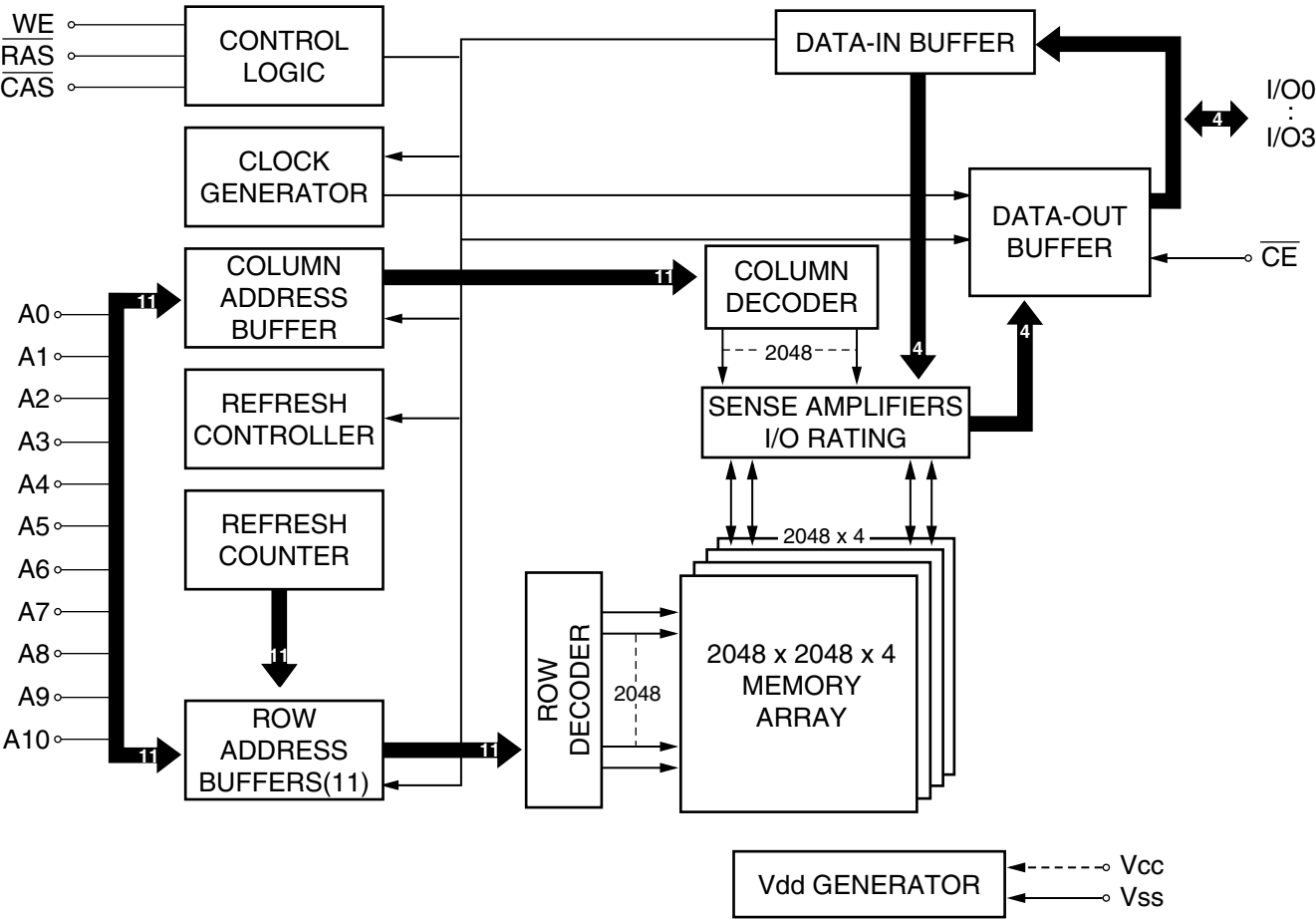
| Pin No. | Symbol | I/O | Function |
|---------|------------|-----|---|
| 53 | RFCK | I/O | Read base clock output |
| 54~59 | MNT0~5 | I/O | Monitoring signal output |
| 60 | VSSD3 | - | Digital Ground |
| 61 | VDDD4 | - | Digital Power |
| 62 | D0 | I/O | DRAM data Input/Output 0 |
| 63 | D1 | I/O | DRAM data Input/Output 1 |
| 64 | WE | O | DRAM Write Enable output (active Low) |
| 65 | RAS | O | DRAM Row Address Selection output (active Low) |
| 66 | D2 | I/O | DRAM data Input/Output 2 |
| 67 | D3 | I/O | DRAM data Input/Output 3 |
| 68 | CAS0 | O | DRAM Column Address Selection output 0 (active Low) |
| 69 | CAS1(AD10) | O | DRAM Column Address Selection output 1 (active Low) |
| 70 | AD8 | O | DRAM Address output 8 |
| 71 | AD7 | O | DRAM Address output 7 |
| 72 | AD6 | O | DRAM Address output 6 |
| 73 | AD5 | O | DRAM Address output 5 |
| 74 | AD4 | O | DRAM Address output 4 |
| 75 | AD9 | O | DRAM Address output 9 |
| 76 | AD0 | O | DRAM Address output 0 |
| 77 | AD1 | O | DRAM Address output 1 |
| 78 | AD2 | O | DRAM Address output 2 |
| 79 | AD3 | O | DRAM Address output 3 |
| 80 | VSSD4 | - | Digital Ground |

3. Block diagram



M11L1644 (IC1644) : DRAM

1. Block diagram

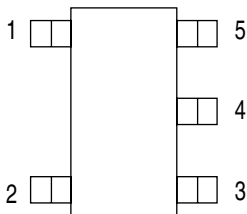


2. Pin function

| Pin No. | Symbol | I/O | Function |
|----------------|-----------|-----|--|
| 3~11, 14~19, 7 | A0~A10 | I | Address Input Row Address : A0~A10 Column Address : A0~A10 |
| 5 | RAS | I | Row Address Strobe |
| 21 | CAS | I | Column Address Strobe |
| 4 | WE | I | Write Enable |
| 20 | OE | I | Output Enable |
| 2, 3,22, 23 | I/O0~I/O3 | I/O | Data Input/ Ountput |
| 1, 12 | Vcc | | Power (5V or 3.3V) |
| 13, 24 | Vss | | Ground |
| 6 | NC | - | No Connect |

XC6367 (IC6367, 63670) : Regulator

1. Pin layout



2. Pin function

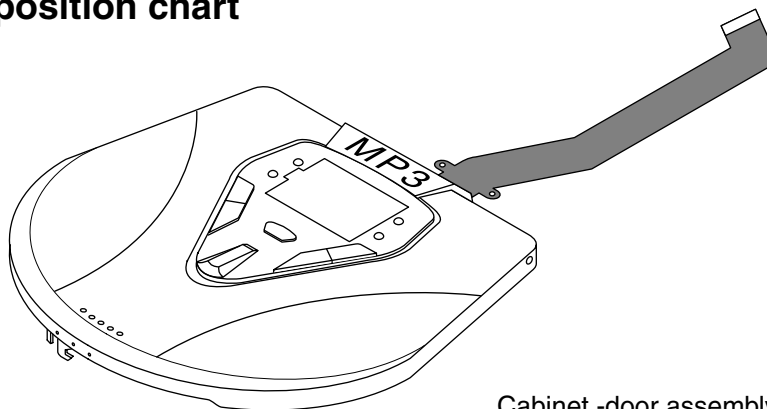
| Pin No. | Symbol | Function |
|---------|--------|--------------------------------|
| 1 | EXT | External transistor connection |
| 2 | GND | Ground |
| 3 | CE | Chip enable |
| 4 | VDD | Power supply |
| 5 | VOUT | Voltage output |

Parts list

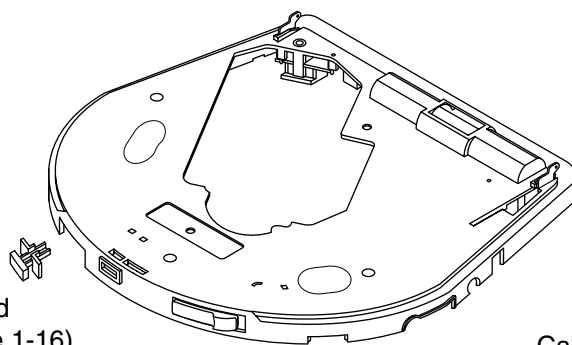
Block No.

| | | | |
|---|---|---|---|
| M | 1 | M | M |
|---|---|---|---|

■Integrated decomposition chart

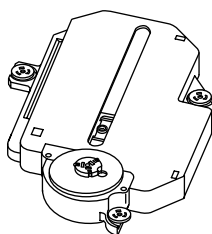


Cabinet -door assembly
(See page 1-14)



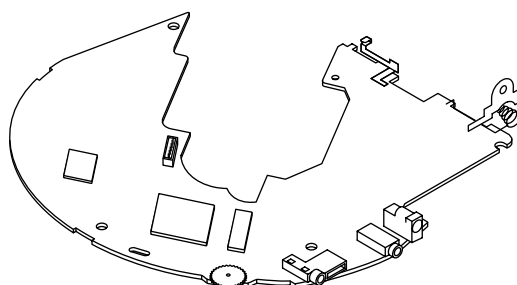
Knob -hold
(See page 1-16)

Cabinet -middle assembly
(See page 1-14)



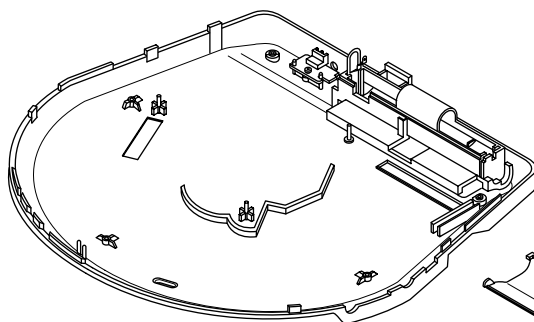
CD mechanism assembly
(See page 1-15)

Main board assembly
(See page 1-15)

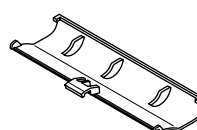


Holder -battery
(See page 1-16)

Cabinet -bottom assembly
(See page 1-16)



Lid -battery
(See page 1-16)



■ Cabinet -door assembly



(XL-PM1)

| | Parts number | Parts name | Description | Area suffix |
|--|--------------|---------------|------------------|-------------|
| | AH64-01527A | CABINET -DOOR | WITH FRONT BOARD | ALL |

(XL-PM11C)

| | Parts number | Parts name | Description | Area suffix |
|--|--------------|---------------|------------------|-------------|
| | AH64-01527B | CABINET -DOOR | WITH FRONT BOARD | C |

■ Cabinet -middle assembly



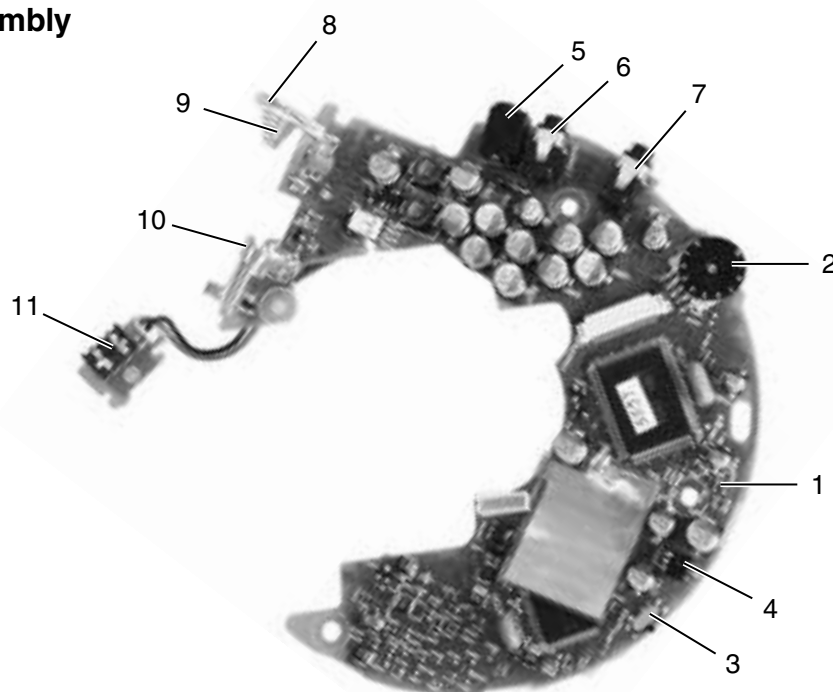
| | Parts number | Parts name | Description | Area suffix |
|--|--------------|-----------------|-------------|-------------|
| | AH64-01528A | CABINET -MIDDLE | WITH RIBBON | ALL |

■ CD mechanism assembly



| | Parts number | Parts name | Description | Area suffix |
|--|--------------|-------------------|-----------------|-------------|
| | AH59-00968A | CD MECHANISM ASSY | MECH+ RUBBER CD | ALL |

■ Main board assembly



| | Parts number | Parts name | Description | Area suffix |
|----|--------------|--------------------|-------------|-------------|
| 1 | AH92-01161A | MAIN BOARD ASSY | PCB MAIN | ALL |
| 2 | 2102-001063 | VR -ROTARY | VOLUME | ALL |
| 3 | 3408-001038 | SWITCH -SLIDE | HOLD S/W | ALL |
| 4 | 3409-001004 | SWITCH-DETECTOR | DOOR - S/W | ALL |
| 5 | 3722-001525 | JACK -DC POWER | | ALL |
| 6 | 3722-001525 | JACK -LINE OUT | | ALL |
| 7 | 3722-001493 | JACK -PHONE | | ALL |
| 8 | AH61-00595A | BRACKET -BATTERY.P | | ALL |
| 9 | AH61-00600A | SPRING -BATTERY | | ALL |
| 10 | AH61-00594A | BRACKET-CHARGER | | ALL |
| 11 | 3710-001696 | CONNECTOR - SOCKET | | ALL |

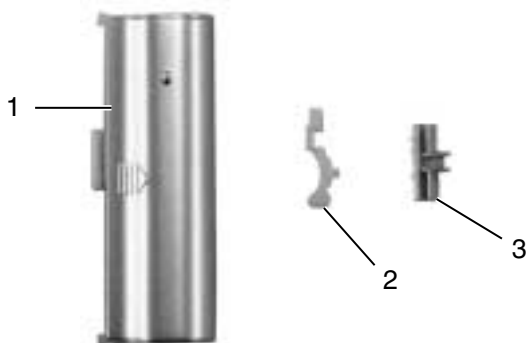
■ Cabinet -bottom assembly



Does not contain
the bottom side label.

| | Parts number | Parts name | Description | Area suffix |
|--|--------------|-----------------|--------------------|-------------|
| | AH64-01529A | CABINET -BOTTOM | WITH BATTERY COVER | ALL |

■ Other parts



| | Parts number | Parts name | Description | Area suffix |
|---|--------------|-----------------|----------------|-------------|
| 1 | AH64-01021A | LID -BATTERY | BATTERY -COVER | ALL |
| 2 | AH61-00734A | HOLDER -BATTERY | | ALL |
| 3 | AH64-01029A | KNOB -HOLD | | ALL |

■ Labels

| | Parts number | Parts name | Description | Area suffix |
|--|--------------|----------------|------------------------|-------------|
| | AH68-50482B | LABEL -CLASS 1 | BOTTOM SIDE | B, E |
| | AH68-00875A | LABEL -RATING | BOTTOM SIDE | J, C |
| | AH68-00875B | LABEL -RATING | BOTTOM SIDE | E |
| | AH68-00875D | LABEL -RATING | BOTTOM SIDE | B |
| | AH68-50275D | LABEL -WARNING | CABINET -MIDDLE INSIDE | B, E |
| | AH68-00907A | LABEL -DHHS | BOTTOM SIDE | J, C |

(XL-PM11C)

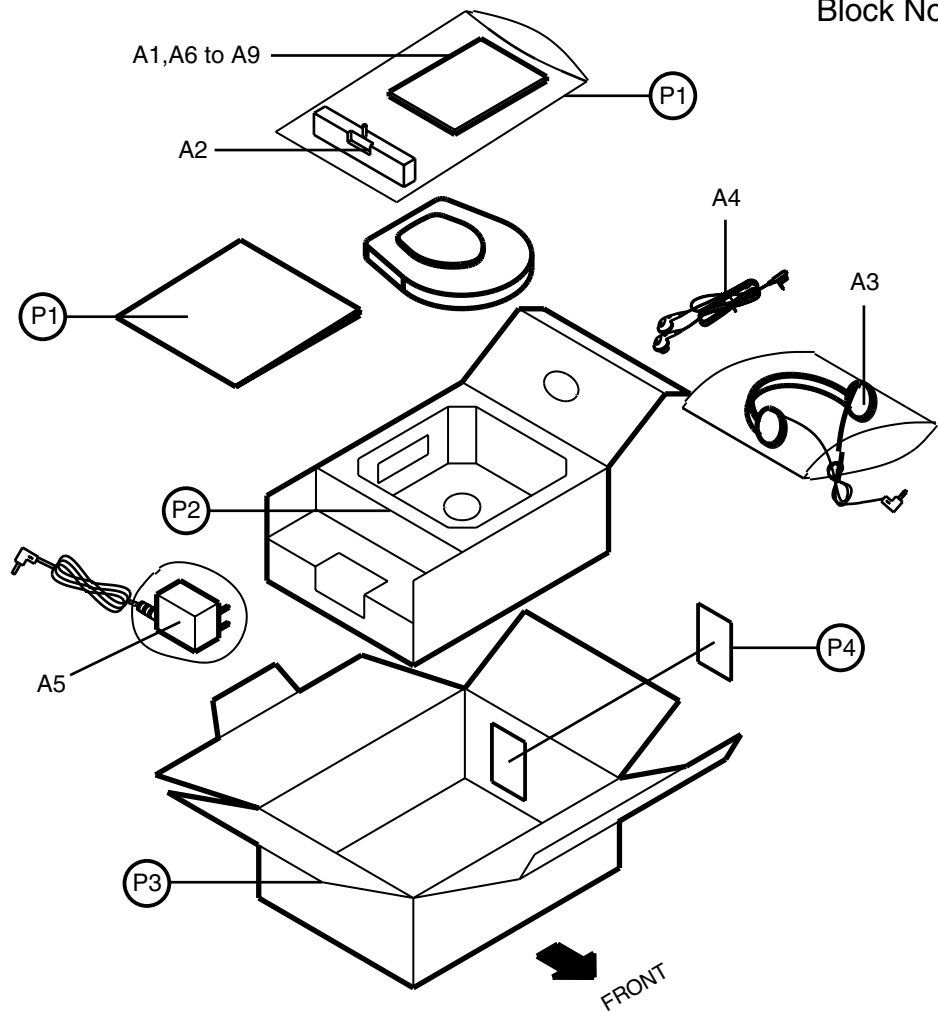
| | Parts number | Parts name | Description | Area suffix |
|--|--------------|---------------|-------------|-------------|
| | AH68-00875C | LABEL -RATING | BOTTOM SIDE | C |

Packing materials and accessories parts list

■ Gift box (XL-PM11C/ XL-PM1B/ XL-PM1E)

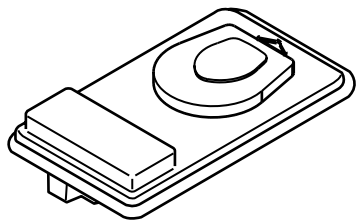
Block No. M 3 M M

Block No. M 5 M M



■ Blister (XL-PM1J/ XL-PM1C)

No do after-sales service of blister pack packing.



■ Parts list (Packing)

Block No. M3MM

| Item | Parts number | Parts name | Q'ty | Description | Area |
|------|--------------|----------------|------|-------------|-----------|
| P1 | AH69-00359A | PE-BAG | 2 | HDPE | ALL |
| P2 | AH69-00538A | PAD-CUSHION | 1 | SW-1 | 11C, B, E |
| P3 | AH69-00538B | PACKING-CASE | 1 | SW-1 | 11C |
| | AH69-00538C | PACKING-CASE | 1 | SW-1 | B, E |
| P4 | AH68-00930A | LABEL-GIFT BOX | 1 | ART PAPER | 11C, B, E |

■ Parts list (Accessories)

Block No. M5MM

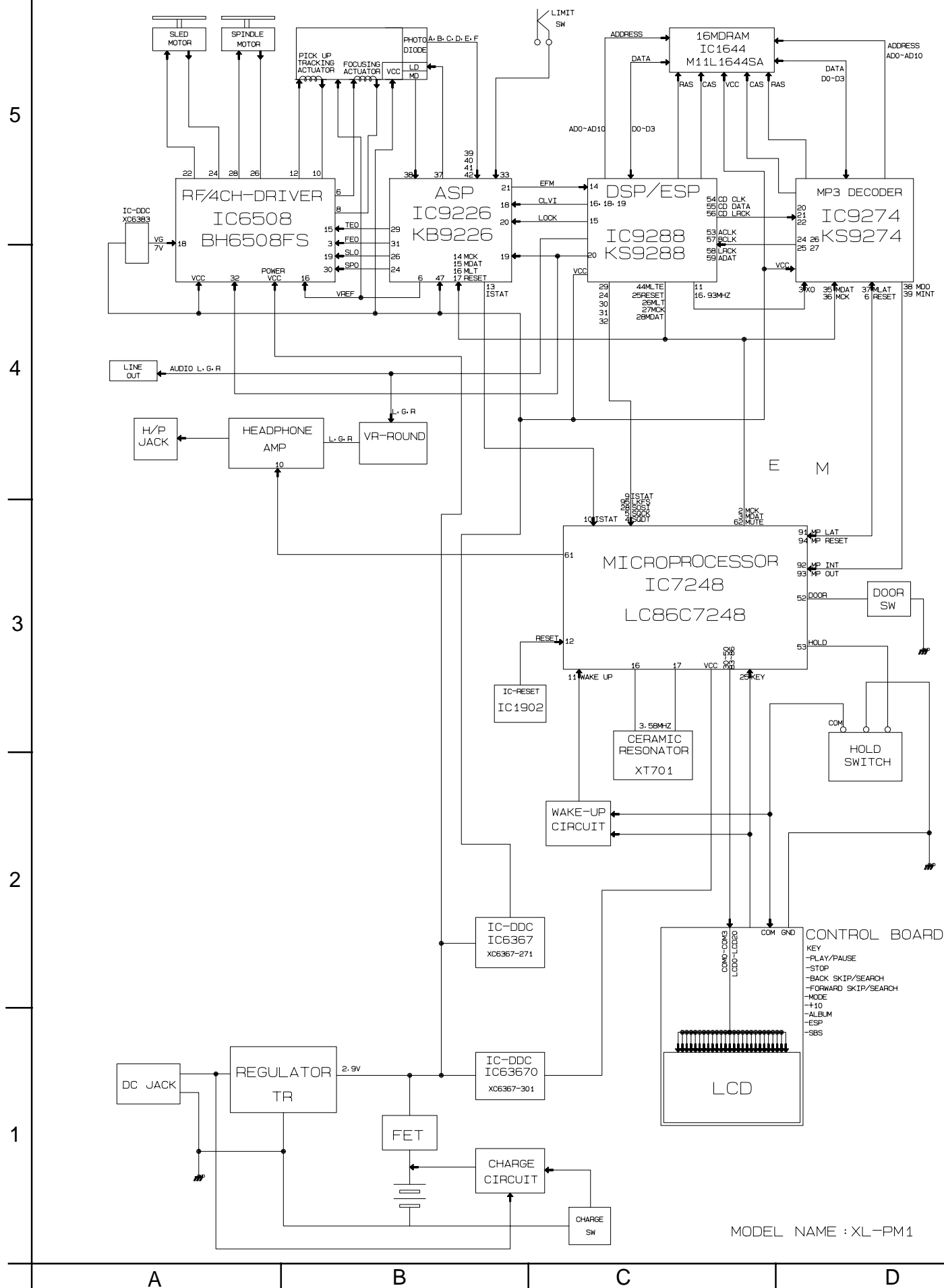
| Item | Parts number | Parts name | Q'ty | Description | Area |
|------|--------------|-------------------|------|--------------------------------|-----------|
| A1 | AH68-00944C | INSTRUCTIONS | 1 | EN/FR | C, 11C |
| | AH68-00944E | INSTRUCTIONS | 1 | EN/SP/NL/GE/IT/ FR/SW/FI/DA | E |
| | AH68-00944D | INSTRUCTIONS | 1 | EN | J, B |
| A2 | AH64-01082A | CASE-BATTERY | 1 | ASSY | ALL |
| A3 | AH30-00016A | HEAD-PHONE | 1 | OVER HEAD | J, C, 11C |
| A4 | AH30-00015A | EAR-PHONE | 1 | INNER EAR | B, E |
| A5 | AH44-00022A | AC-ADAPTER | 1 | AA-R4510 | J, C, 11C |
| | AH44-00021A | AC-ADAPTER | 1 | AA-R4511 | E |
| | AH44-00020A | AC-ADAPTER | 1 | AA-R4512 | B |
| A6 | BT-51626-1 | WARRANTY CARD | 1 | | J |
| | BT-52004-1 | WARRANTY CARD | 1 | | C |
| | BT-54008-2 | WARRANTY CARD | 1 | | B, E |
| A7 | BT-20071B | SVC LIST | 1 | | C |
| A8 | BT-20044G | S.INST SHEET | 1 | | J |
| | E43486-340B | S.INST SHEET | 1 | | B |
| A9 | BT-51020-2 | REGISTRATION CARD | 1 | | J |

< M E M O >

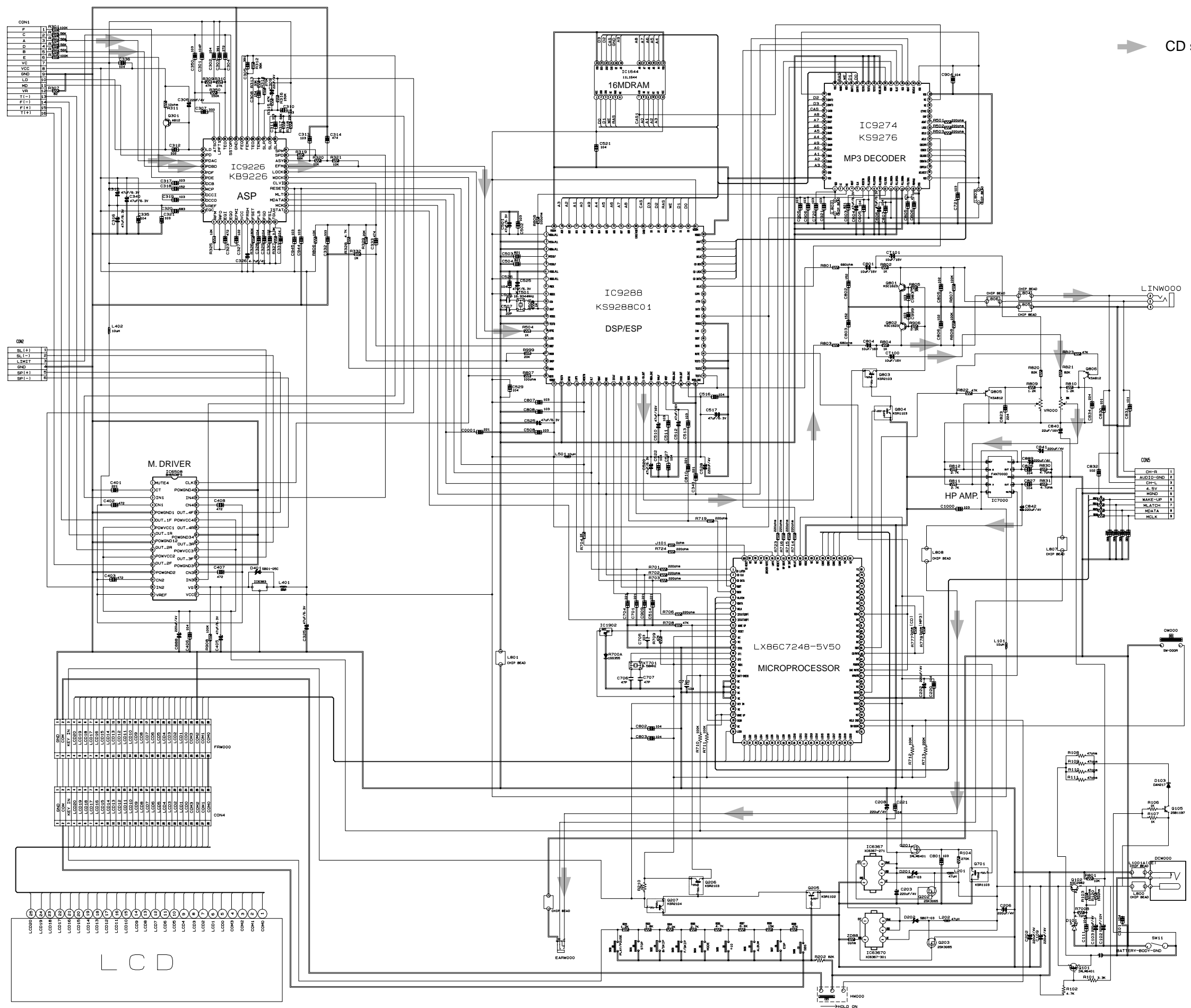


VICTOR COMPANY OF JAPAN, LIMITED
PERSONAL & MOBILE NETWORK BUSINESS UNIT. 10-1, 1chome, Ohwatari-machi, Maebashi-city, 371-8543, Japan

Block diagram



Standard schematic diagram



➔ CD signal

A

B

C

D

E

F

G


JVC

Manual Change Information

SUBJECT : Part number change**Date : 23th. JUL. 2001**

The following parts have been changed. Please note these new parts in your service manual.

We suggest that you order the parts concerned as apares.

Parts identified by the  symbol are critical for safety. Replace only with specified part numbers.

| Model & Manual No. | Location | Reference Information | Performed at factory |
|---------------------------|------------|-----------------------|----------------------|
| XL-PM11/XL-PM1 J/C/B/E | Parts list | ----- | #1~ |
| (No.21018) | | | |
| CD-ROM No. SML200107 | | | |

| Page | Item | Old parts | Parts No. | Parts Name | FOB (New Parts) | Itg | Rsn | Note |
|------|------------------------------|-------------|-------------|---------------|--------------------|-----|-----|------|
| 1-15 | Main Board assembly #6 | 3722-001525 | 3722-001493 | Jack Line out | ---- | D | G | |

COMMENTS :**ATTACHMENT**

- (x) NONE () COMPONENT / PWBLAYOUT
 () SCHEMATIC DIAGRAM () ADJUSTMENT PROCEDURE
 () EXPLODED VIEW

INTERCHANGEABILITY

- A. Completely interchangeable.
 B. Previous part can be used for new set, but new part can not be used for previous set.
 C. New part can be used for previous set, but previous part can not be used for new set.
 D. Not interchangeable.
 E. Addition
 F. Deletion

REASON FOR CHANGE

- A. To improve performance.
 B. To improve reliability.
 C. To improve safety.
 D. To improductivity
 E. Standardization of part.
 F. For your demand.
 G. Correction of misprint.
 H. Others.