

# D-SJ01

## SERVICE MANUAL

Ver 1.0 2000. 01



*US Model  
Canadian Model  
AEP Model  
UK Model  
E Model  
Australian Model*

Model Name Using Similar Mechanism	D-E01/EJ01
CD Mechanism Type	CDM-3022EBG
Optical Pick-up Name	DAX-22EG

### SPECIFICATIONS

#### System

Compact disc digital audio system

#### Laser diode properties

Material: GaAlAs

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

Emission duration: Continuous

Laser output: Less than  $44.6 \mu\text{W}$  (This output is the value measured at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

#### D-A conversion

1-bit quartz time-axis control

#### Frequency response

20 - 20,000 Hz  $\pm 1/-2 \text{ dB}$

(measured by EIAJ CP-307)

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

Headphones (stereo minijack)

Approx. 5 mW + Approx. 5 mW  
at 16 ohms

#### Power requirements

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

- Two Sony NC-WMAA rechargeable batteries: 2.4 V DC
- Two LR6 (size AA) batteries: 3 V DC
- AC power adaptor (DC IN 4.5 V jack):
  - US, CND model: 120 V, 60 Hz
  - AEP, E13 model: 220 - 230 V, 50/60 Hz
  - UK model: 230 - 240V, 50 Hz
  - AUS model: 240 V, 50 Hz
  - E33 model: 100 - 240 V, 50/60 Hz
- Sony DCC-E245 car battery cord for use on car battery: 4.5 V DC

#### Battery life \* (approx. hours)

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

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

When using	G-PROTECTION function	
	off	on
Two NC-WMAA (charged for about 2.5 hours**)	12	11
NH-WM2AA (charged for about 4 hours**)	25	23
Two alkaline batteries LR6	40	37

\* Measured value by the standard of EIAJ (Electronic Industries Association of Japan).

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

– Continued on next page –

## PORTABLE CD PLAYER

# SONY®



#### Operating temperature

5°C - 35°C (41°F - 95°F)

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

Approx. 143.2 × 31 × 152.5 mm

(5 3/4 × 1 1/4 × 6 1/8 in.)

#### Mass (excluding accessories)

Approx. 320 g (11.3 oz.)

#### Supplied accessories

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

- AC power adaptor AC-E455 (1)
- Headphones/earphones with remote control
- MDR-W014LP (1) (Except CND model)
- MDR-G051LP (1) (CND model only)
- Rechargeable batteries NC-WMAA (1)
- Battery carrying case (1)
- Carrying case (1)
- Battery case (1)
- AC plug adaptor (1) \*\*
- \*\* Supplied with E33 model only

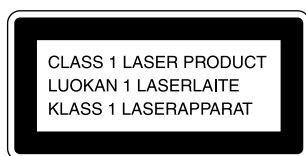
Design and specifications are subject to change without notice.

#### • Abbreviation

- CND : Canadian model
- E13 : AC 220-230V area in E model
- AUS : Australian model
- E33 : AC 100-240V area in E model

### CAUTION

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



This Compact Disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT table is located on the bottom exterior.

#### Flexible Circuit Board Repairing

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

#### Notes on Chip Component Replacement

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

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### SAFETY-RELATED COMPONENT WARNING!!

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

### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

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

## SECTION 1 SERVICE NOTE

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

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

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

### • NOTES ON LASER DIODE EMISSION CHECK

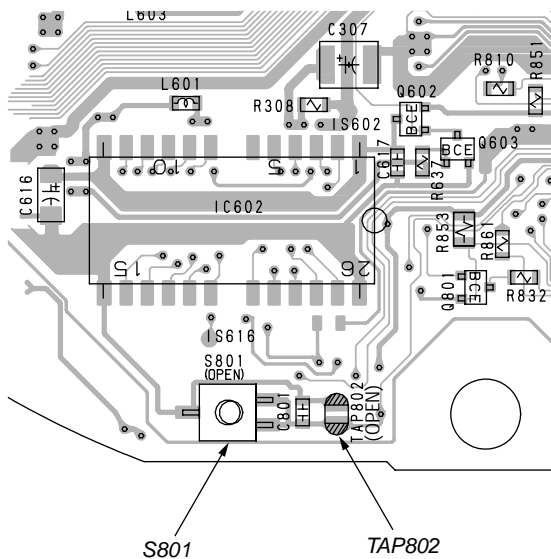
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

### • To Check the Laser Diode and Focus Search Operation

Open the upper panel. Turn on the power without a disc while the main board S801 (OPEN) is ON (or TAP802 is shorted). Then, observe the objective lens and check that the following operations are performed.

1. Scattered light of laser beams is seen.
2. Check for vertical movements (five) of the objective lens (with movement of the PU on the inner circumference).

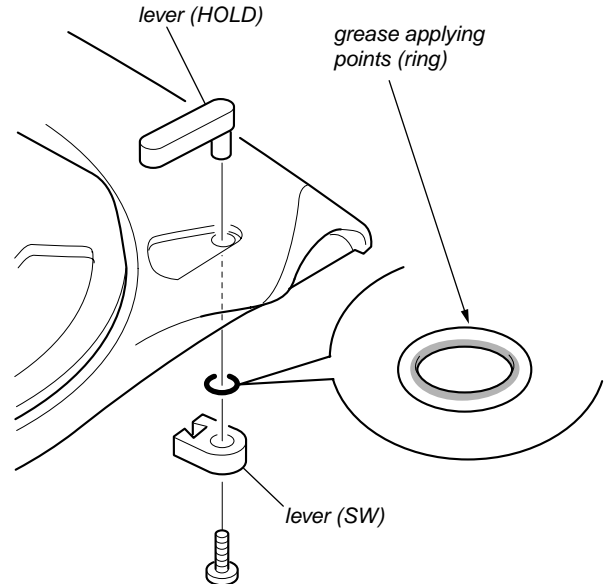
— main board (side A) —



### • Moisture Resistant Treatment

Be sure to perform the following work when the cabinet and ring have been replaced in servicing :

Apply SONY grease SGL-505 (7-662-010-04) to the ring at the points specified in the figure with an applicator or other means.



### • Before Replacing the Optical Pick-Up Block

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

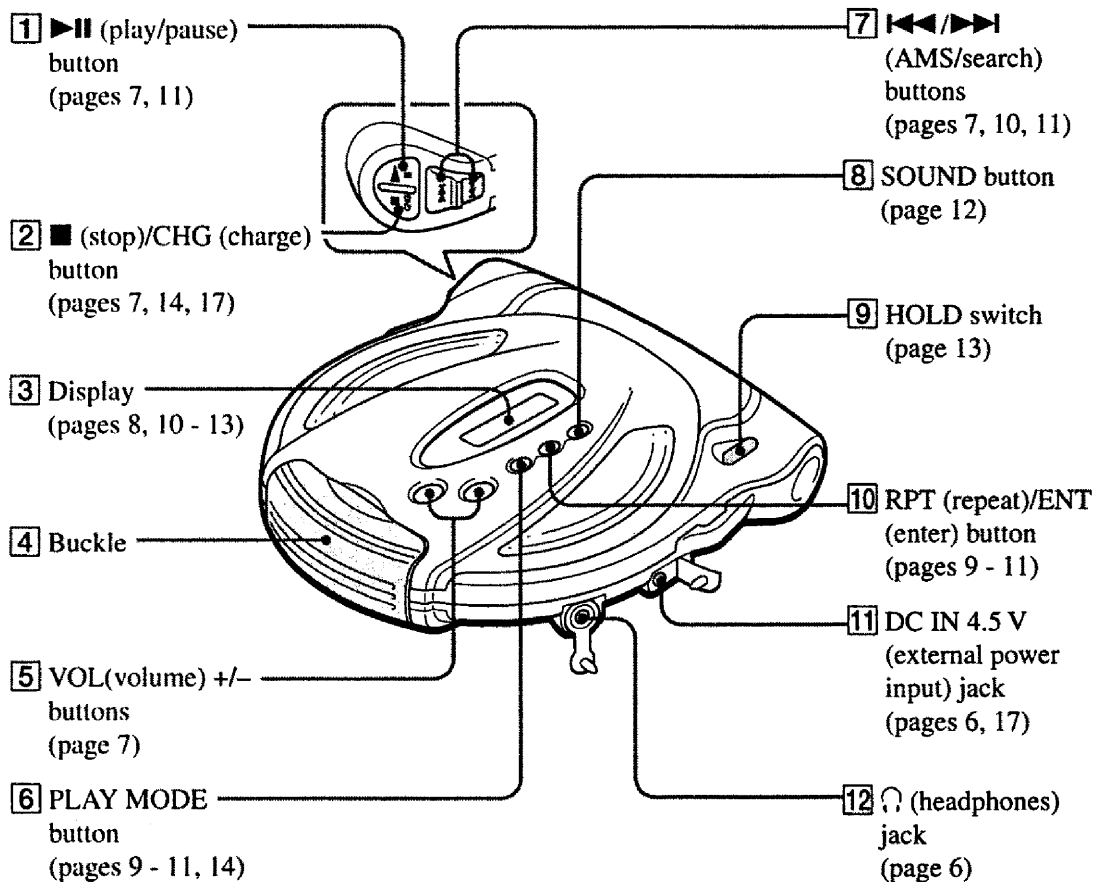
- FOK output : IC601 ③⑤ pin  
When checking FOK, remove the lead wire to disc motor.  
When checking FOK value, remove the lead wire to disc motor.
- RF signal P-to-P value : 0.35 - 0.65 V<sub>p-p</sub>
- The repairing grating holder is impossible.

## Getting started

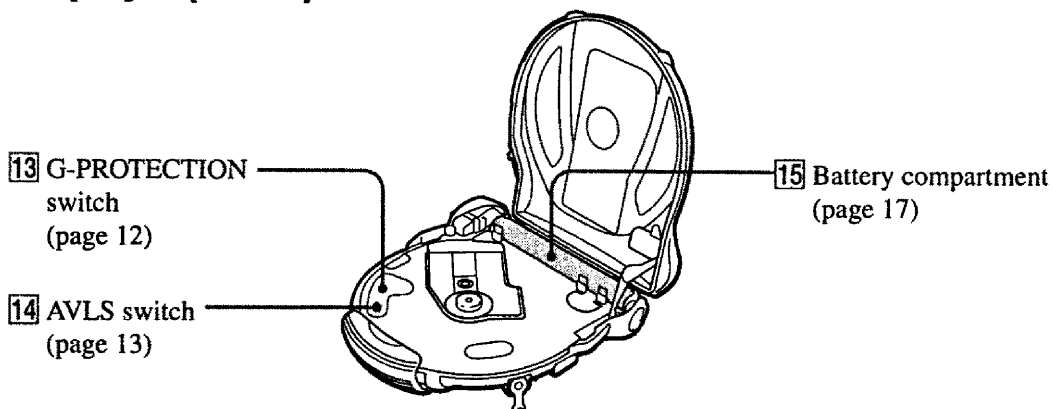
### Locating the Controls

For details, see pages in parentheses.

#### CD player (front)



#### CD player (inside)



## Playing a CD

You can also use rechargeable batteries, dry batteries and a car battery as a power source.

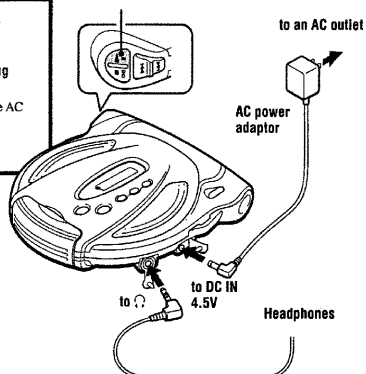
### 1. Connect your CD player.

- 1 Connect the AC power adaptor.
- 2 Connect the headphones.

For models supplied with the AC plug adaptor

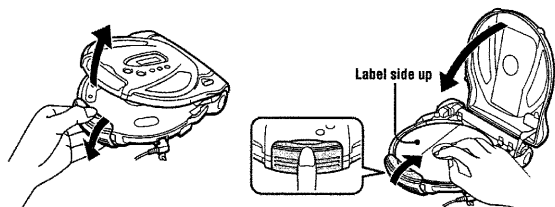
If the AC power adaptor does not fit the AC outlet, use the AC plug adaptor.

▶II button



### 2. Insert a CD.

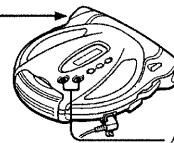
- 1 Unfasten the buckle.
- 2 Open the lid.
- 3 Fit the CD on the pivot and close the lid.
- 4 Fasten the buckle securely.



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### 3. Play a CD.

Press ▶II.



Adjust the volume by pressing VOL + or -.

Playing a CD

To	Press
Play/Pause	▶II
Stop	■/CHG*2
Find the beginning of the current track (AMS*1)	◀◀ once quickly*2
Find the beginning of the previous tracks (AMS)	◀◀ repeatedly*2
Find the beginning of the next track (AMS)	▶▶ once quickly*2
Find the beginning of the succeeding tracks (AMS)	▶▶ repeatedly*2
Go backwards quickly	Hold down ◀◀*2
Go forward quickly	Hold down ▶▶*2

\*1 Automatic Music Sensor

\*2 These operations can be done during both play and pause.

(Continued)

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### About the display

- When you press ▶II after changing the CD or turning off and on the player, the total number of tracks in the CD and total playing time appear for about two seconds.
- During play, the track number and the elapsed playing time of the current track appear.
- Between tracks, the time to the beginning of the next track appears with the “-” indication.
- During pause, the elapsed playing time flashes.

### If the volume level does not increase

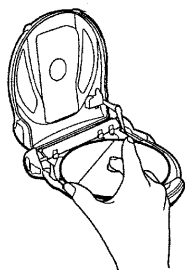
Is AVLS set to “LIMIT”? Set AVLS to “NORM.” For details, see “Protecting your hearing (AVLS).”

### Playback starts from the point you stopped

Your CD player can recall the playback point where you stopped and then resume playing from the same place (resume function). There is no ON/OFF switch of the resume function on this CD player.

### Removing the CD

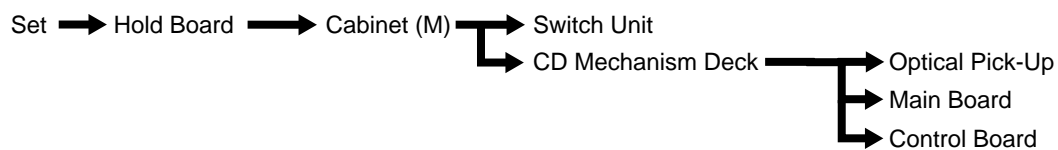
Remove the CD while pressing the pivot in the center of the tray.



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## SECTION 3 DISASSEMBLY

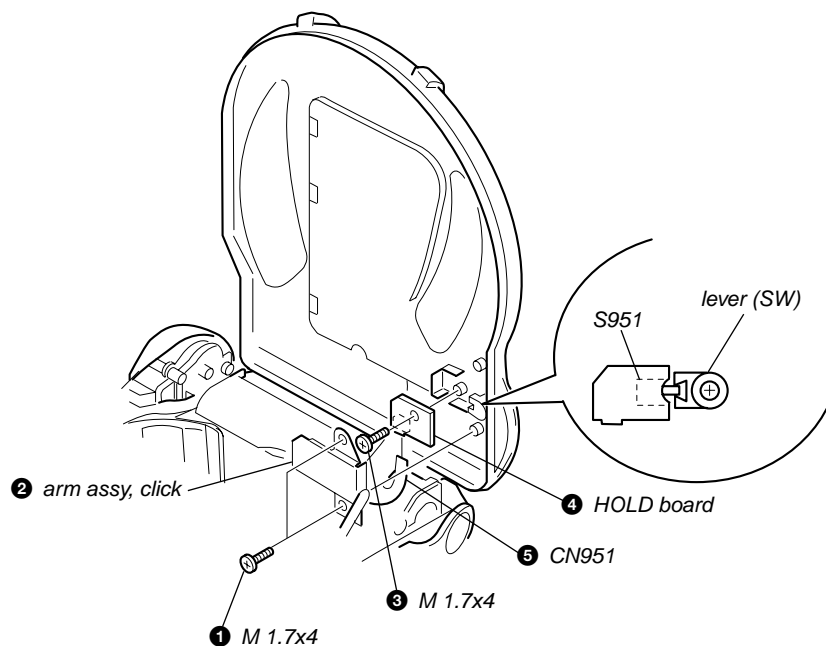
- This equipment can be removed using the following procedure.



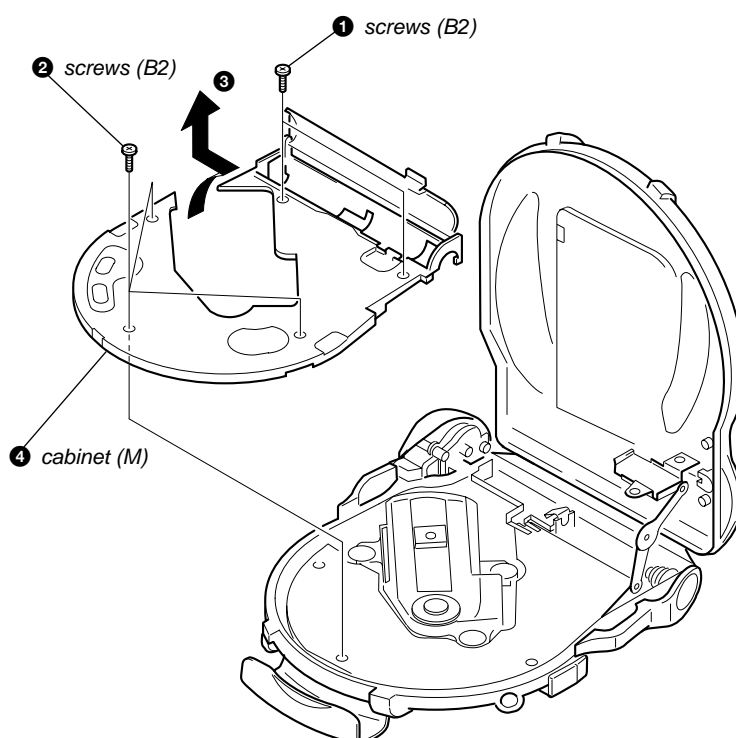
**Note :** Follow the disassembly procedure in the numerical order given.

### 3-1. HOLD BOARD

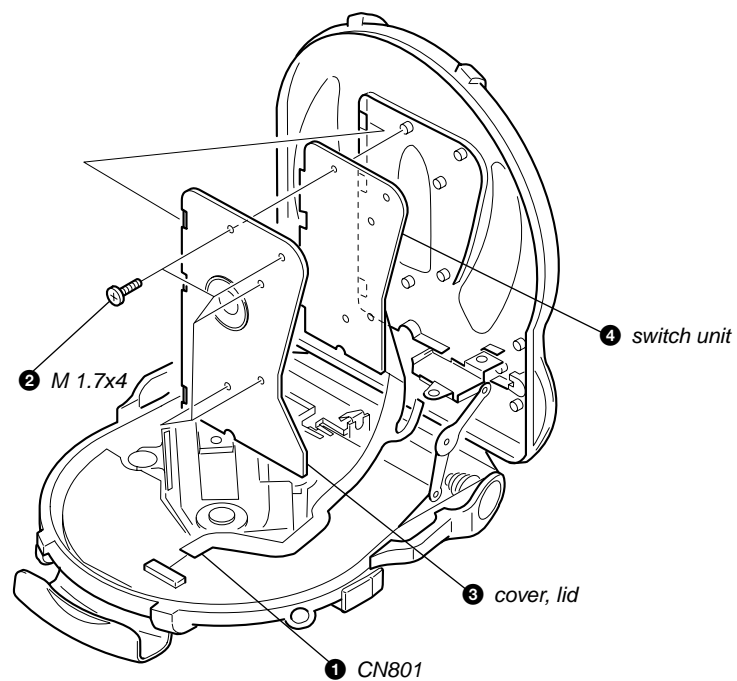
**Note :** When installing, fit the lever (SW) and switch (S951)



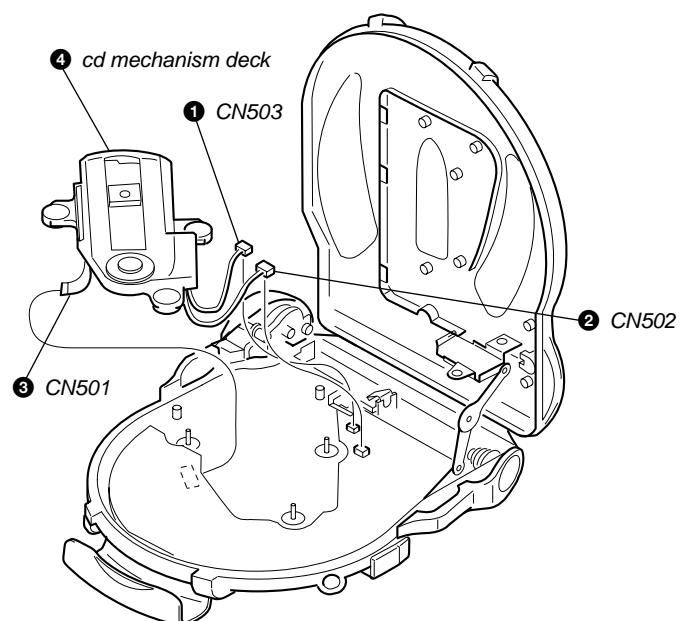
### 3-2. CABINET (M)



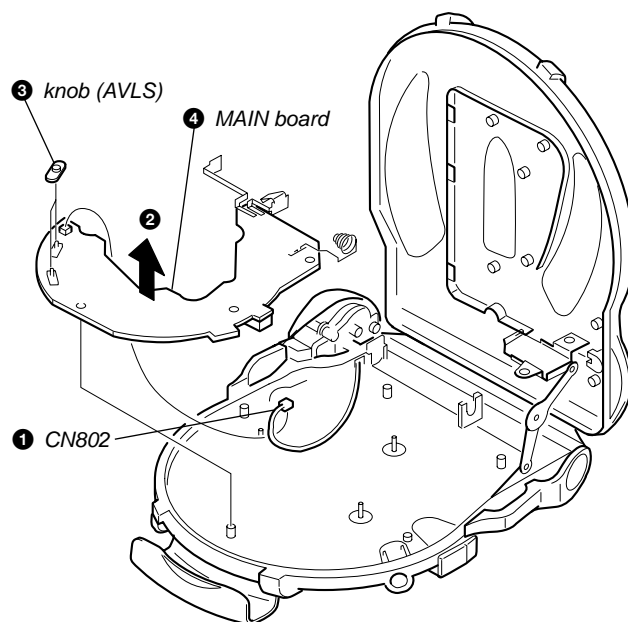
### 3-3. SWITCH UNIT



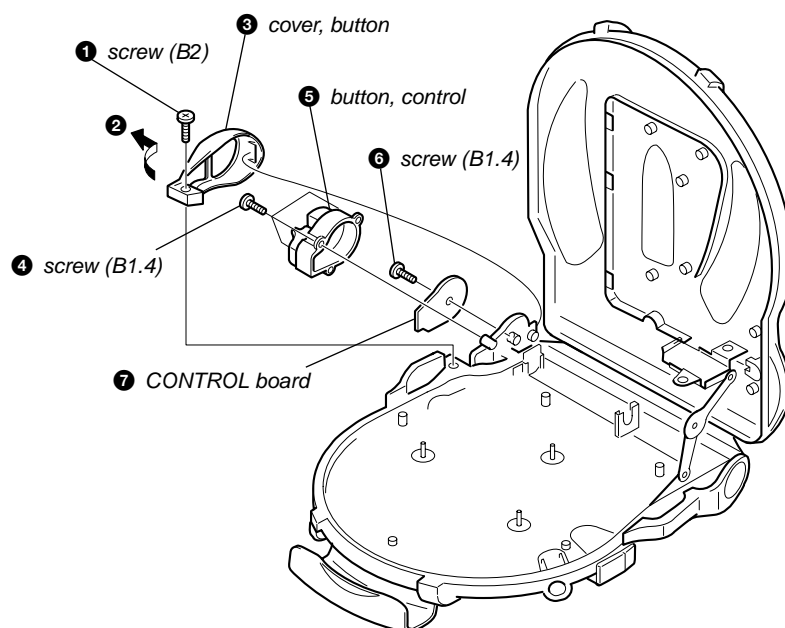
### 3-4. CD MECHANISM DECK



### 3-5. MAIN BOARD

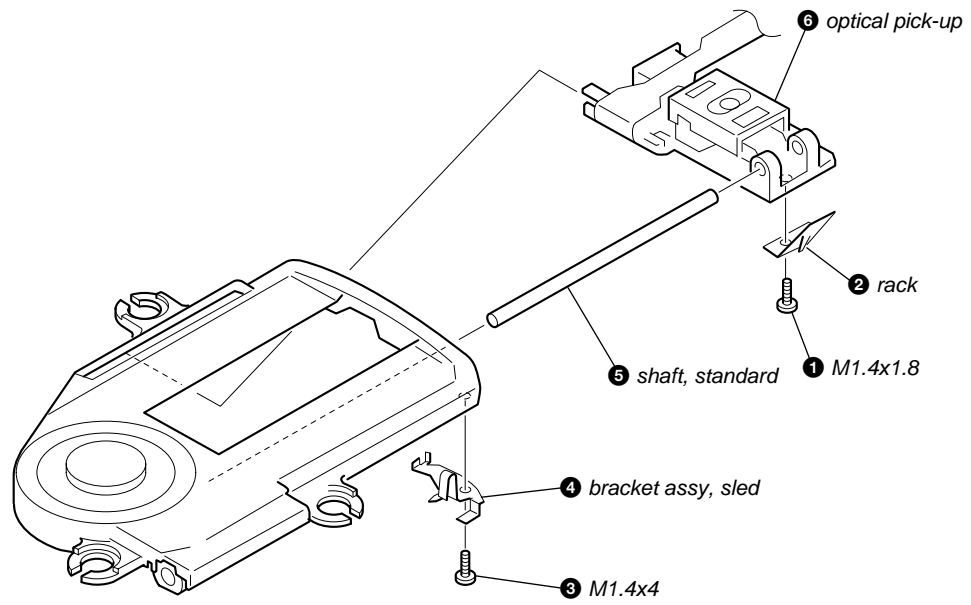


### 3-6. CONTROL BOARD





### 3-7. OPTICAL PICK-UP



## SECTION 4 TEST MODE

### 4-1. GENERAL INFORMATION

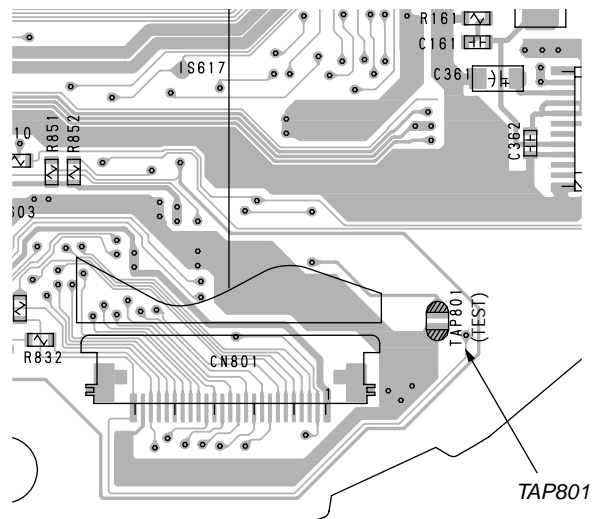
In this set, the functions and audio capabilities can be checked by entering the TEST MODE.

### 4-2. TEST MODE

#### 4-2-1. Setting the Test Mode

- Switch positions  
OPEN switch : OPEN  
HOLD switch : OFF  
AVLS switch : OFF
- With external power supply disconnected. (power is not applied to the set)
- Solder across the TEST terminals (TAP801). (pin ⑭, IC801 (SEL) is grounded)
- Connect an external power supply.

Thus, the set is switched to the test mode.



#### 4-2-2. Releasing the Test Mode

- Be sure to disconnect the external power supply and remove the solder bridge at the TEST terminals connected before in setting.
- The set thus becomes available for normal operation.

#### 4-2-3. Contents of Test Mode

① When a specific key is operated:

KEY	Contents of the operation. ((LCD DISPLAY))
	Spindle on. Tracking servo off. ((UP 00 03))
	All servo off. Mute on. ((10 different displays are repeatedly presented.))
	Moves the pick-up to the outside (with the open switch open). Tracking servo off. Mute on. ((Among 10 different displays, the display when the key is pressed is held.))
	Moves the pick-up to the inside (with the open switch open). Tracking servo off. Mute on. ((Among 10 different displays, the display when the key is pressed is held.))

② In play mode

• Press the play key:

KEY	Contents of the operation. ((LCD DISPLAY))
	Tracking servo on. Mute off.  Each time this key is pressed, the display changes as follows: x1 speed → x2 speed → x3 speed → x4 speed → x1 speed (( 01 00 01)) ((02 00 02)) ((03 00 03)) ((04 00 04))
	Each time this key is pressed, the display changes as follows: Tracking gain up. Emphasis on. LCD back light on ↔ Tracking gain down. Emphasis off. LCD back light off
	Headphone ATT 0dB
	Headphone ATT -35dB

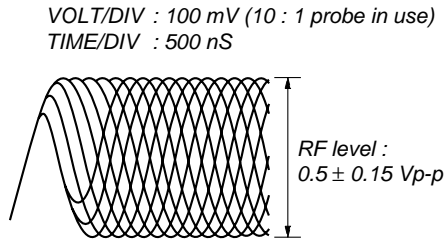
SECTION 5  
ELECTRICAL ADJUSTMENTS

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

5-1. FOCUS BIAS CHECK

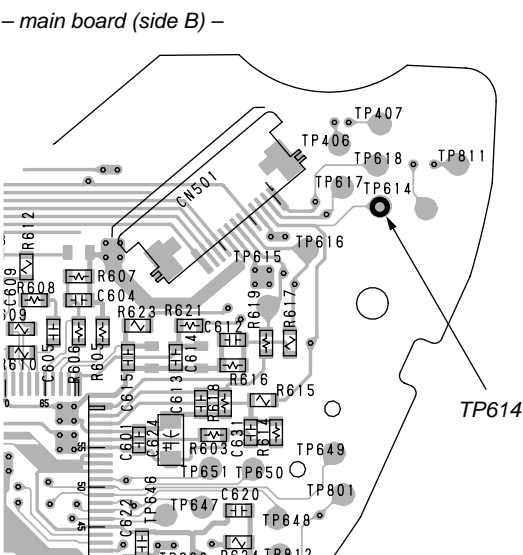
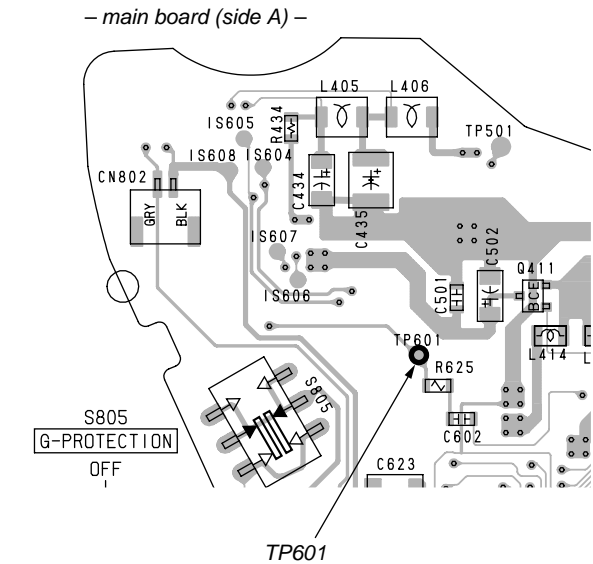
1. Connect the oscilloscope between TP614 (RF) or TP601 (RF) and GND on main board.
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the **▶II** button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)  
A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

- RF signal reference waveform (eye pattern)



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

Test Points:



SECTION 6  
DIAGRAMS

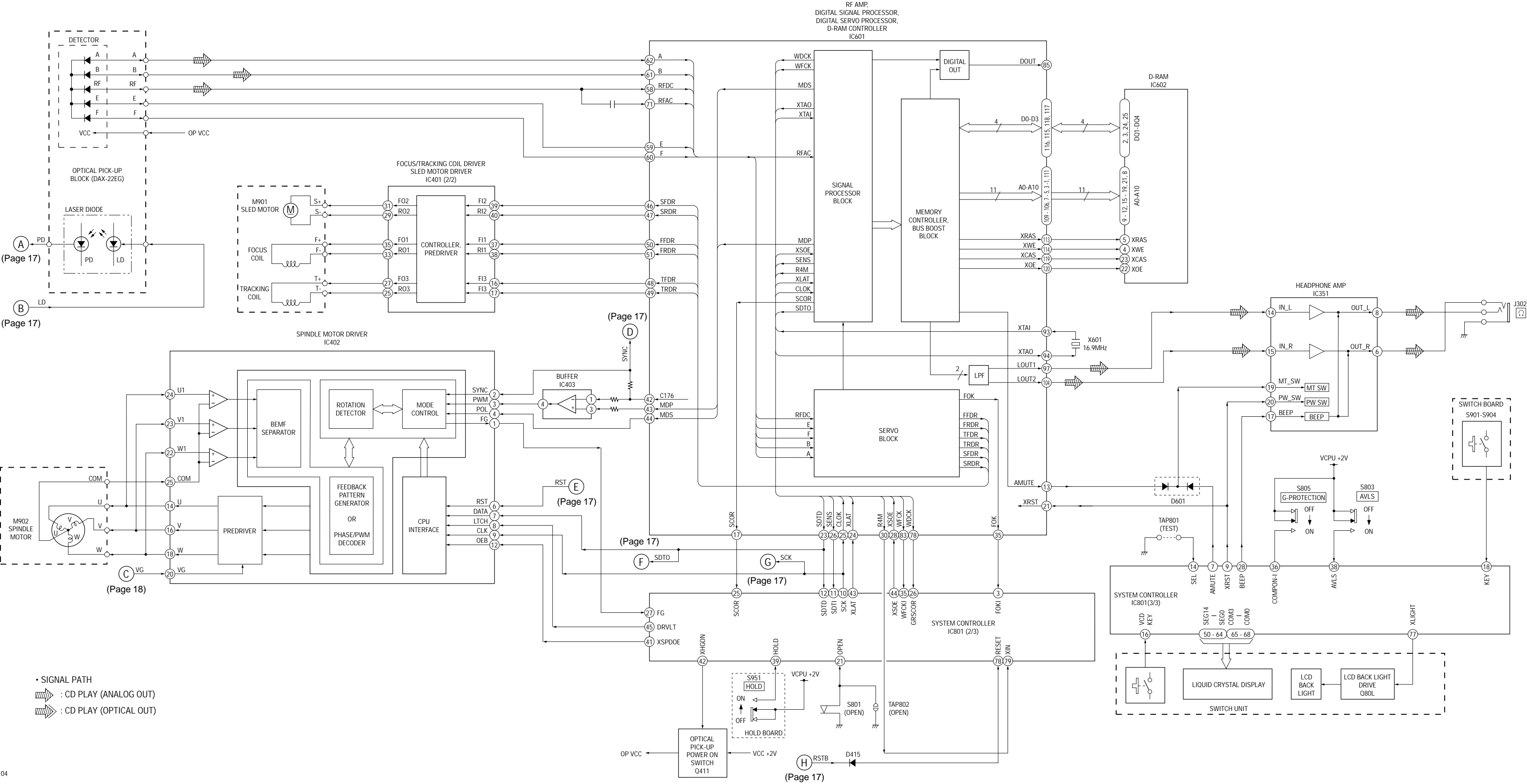
6-1. IC PIN DESCRIPTION

• IC801 TMP88CM22F (SYSTEM CONTROLLER)

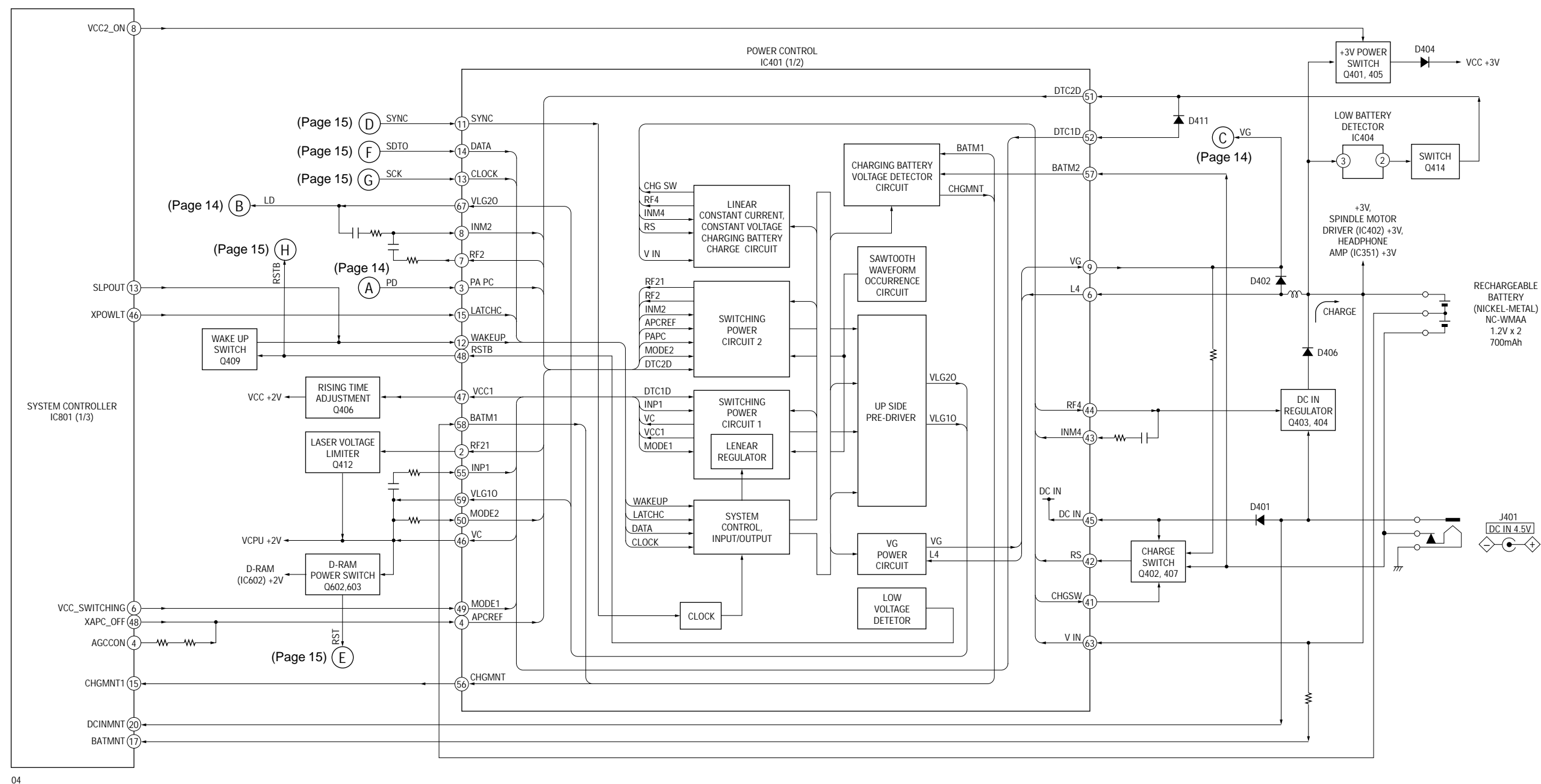
Pin No.	Pin Name	I/O	Pin Description
1	VSS	I	Ground
2	IRPMC	I	Fixed at L.
3	FOKI	I	Focus OK signal input from digital servo processor (IC601).
4	AGCCON	O	AGC control pulse output
5	XLEDDISP	O	CHG/HOLD LED control signal output
6	VCC SWITCHING	O	Control signal output for Switching power supply circuit.
7	AMUTE	O	Analog audio muting ON/OFF signal control signal output (H: Mute ON)
8	VCC2 ON	O	VCC2 voltage control output
9	XRST	O	Reset signal output to CXD3027R (IC601). (L: Reset)
10	SCK	O	Serial data transfer clock signal output to CXD3027R (IC601).
11	SDTI	I	Serial data input from CXD3027R (IC601).
12	SDTO	O	Serial data output to CXD3027R (IC601).
13	SLPOUT	O	WAKE-UP control signal output (for system standby reset)
14	SEL	I	Plug-in detection signal input of LINE OUT/OPTICAL OUT jack.
15	CHGMNT1	I	Battery charge voltage detection input from power control IC (IC401).
16	VCDKEY	I	Fixed at H.
17	BATMNT	I	Battery voltage detection input
18	KEY	I	Key input from switch unit (A/D input)
19	RMKEY (NC)	I	Key input from headphones with remote controller (A/D input). Fixed at L.
20	DCINMNT	I	DC input voltage detection input (A/D input) DC input jack use/no-use detect input
21	OPEN	I	CD door open/close detection input
22	VREFL	I	Reference voltage (0 V) input for A/D converter.
23	VREFH	I	Reference voltage (+2 V) input for A/D converter.
24	VDD	—	Power supply pin (+2 V)
25	SCOR	I	Sub code sync detection input from CXD3027R (IC601).
26	GRSCOR	I	GRSCOR signal input
27	FG	I	FG pulse input
28	BEEP	O	Beep sound output to headphone AMP (IC351).
29	NC	—	Not used. (Open)
30	RMSCK (NC)	O	Communication clock. Not used.
31	RMDATI (NC)	I	Communication data bus of headphones with remote controller. Not used.
32	RMDATO (NC)	O	Communication data bus of headphones with remote controller. Not used.
33	RMRW (NC)	O	Read/write control signal output to headphones with remote. (L: Read, H: Write) Not used.
34	RMLAT (NC)	O	Serial data latch pulse output to headphones with remote. Not used.
35	WFCKI	I	WFCK input
36	COMPON I	I	Key input from G-protection switch (S805).
37	XNTSC I	I	Not used. Fixed at H.
38	AVLS	I	AVLS (Automatic Volume Limiter System) switch input (L: Normal, H: Limit)
39	HOLD	I	HOLD switch input (L: HOLD on, H: HOLD off)
40	EX BATT (NC)	I	EXT BATT plug-in detection input Not used
41	DRVRST	O	Spindle motor driver control signal output
42	XOE	O	Optical pick-up VCC control signal output (L: on)
43	XLAT	O	Serial data latch pulse output to D-RAM controller (IC601). (for ESP)
44	XSOE	O	Output enable signal output (for ESP)
45	DRVLT	O	Spindle motor driver latch output
46	XPOWLT	O	Latch output to VCD control IC.
47	XDOUTON (NC)	O	DIGITAL OUT LED control signal output Not used
48	XAPC OFF	O	APC mute signal output (L: mute)
49	XVRST (NC)	—	Not used. (Open)
50 – 52	SEG14 – 12	O	LCD drive segment output (Open)

Pin No.	Pin Name	I/O	Pin Description
53 – 56	SEG11 – 8	O	LCD drive segment output (Open)
57 – 64	SEG7 – 0	O	LCD drive segment output (Open)
65 – 68	COM3 – 0	O	LCD drive common output (Open)
69 – 71	V3 – 1	O	LCD drive bias output (Open)
72, 73	C1, 0	O	Capacitor connected terminal of LCD driver for voltage-up.
74	STOP	O	Stop signal output to VCD control IC. (Connect to ground.)
75	TEST	I	Test terminal for IC. Fixed at L.
76	XHPSW (NC)	O	Headphone AMP ON/OFF control signal output. Not used
77	XLIGHT	O	LCD back light control signal output to LCD.
78	RESET	I	System reset signal input from power control IC (IC401). (L: Reset)
79	XIN	I	Oscillation input
80	XOUT	O	Oscillation output (Open)

6-2. BLOCK DIAGRAM — CD SECTION —

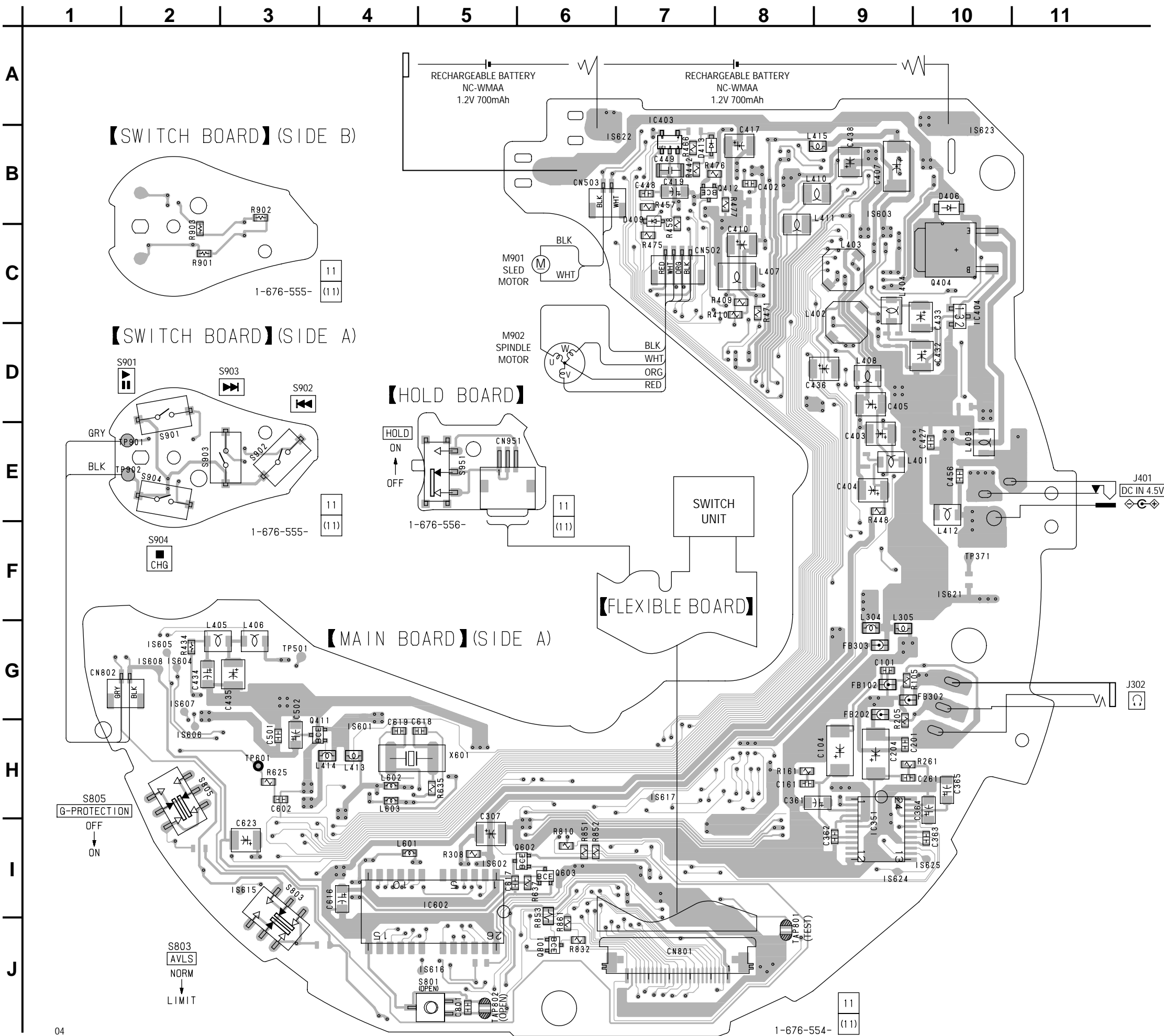


## 6-3. BLOCK DIAGRAM — POWER SUPPLY SECTION —



04

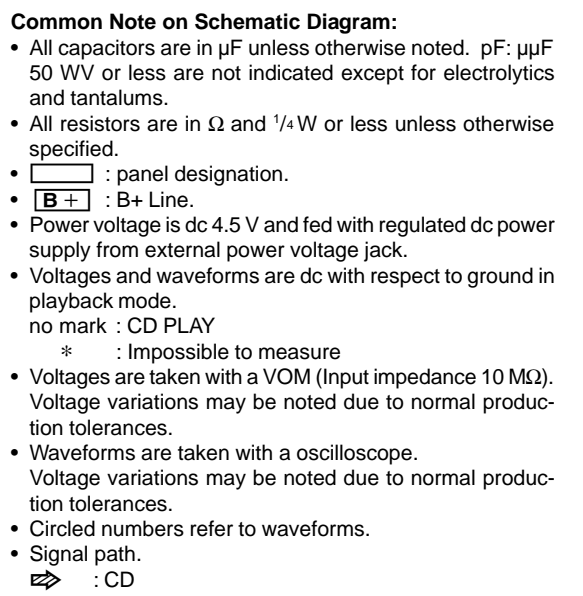
#### 6-4. PRINTED WIRING BOARDS — MAIN SECTION —



- **Semiconductor Location**

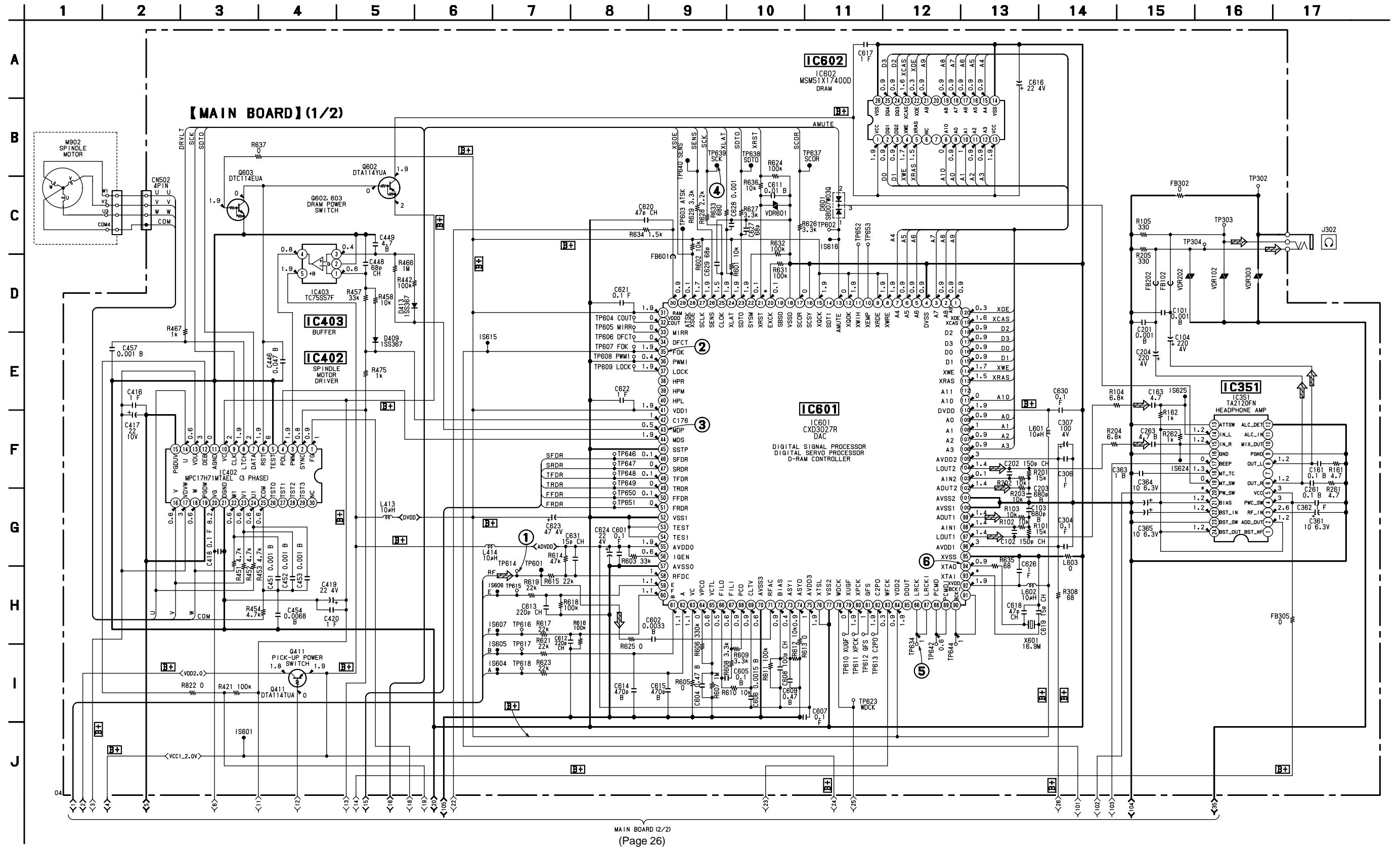
Ref. No.	Location	Ref. No.	Location
(D401)	D-10	(IC801)	I-7
(D402)	C-8		
(D403)	C-8	(Q401)	F-9
(D404)	E-9	(Q402)	B-10
(D405)	E-10	(Q403)	D-10
D406	B-10	Q404	C-10
D409	C-7	(Q405)	E-9
(D411)	C-10	(Q406)	B-9
(D412)	B-8	(Q407)	E-10
D413	B-7	(Q409)	C-8
(D414)	D-10	Q411	H-3
(D415)	H-6	Q412	B-8
(D601)	J-5	(Q414)	C-10
		Q602	I-5
IC351	I-9	Q603	I-6
(IC401)	C-9	Q801	J-6
(IC402)	B-7		
IC403	B-7	(VDR102)	G-9
IC404	D-10	(VDR202)	H-9
(IC601)	I-4	(VDR303)	H-9
IC602	I-5	(VDR601)	J-4

( ) : SIDE B



6-5. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) —

- Refer to page 25 for Waveforms.
- Refer to page 27 for IC Block Diagrams.



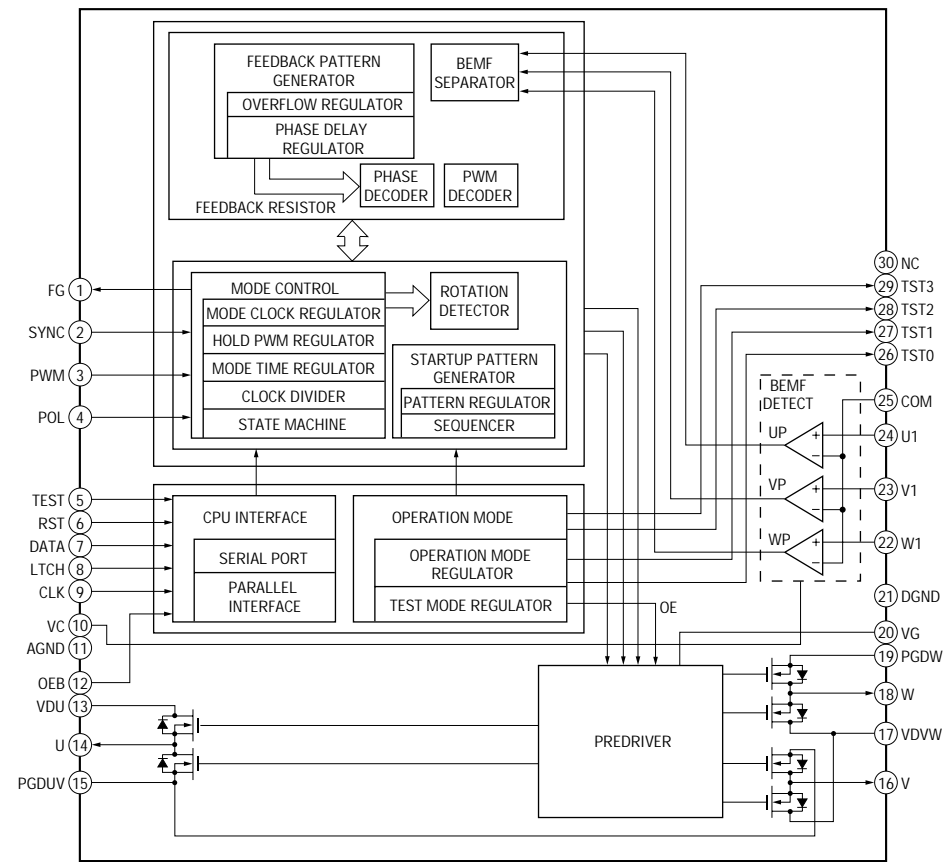
MAIN BOARD (2/2)  
(Page 26)



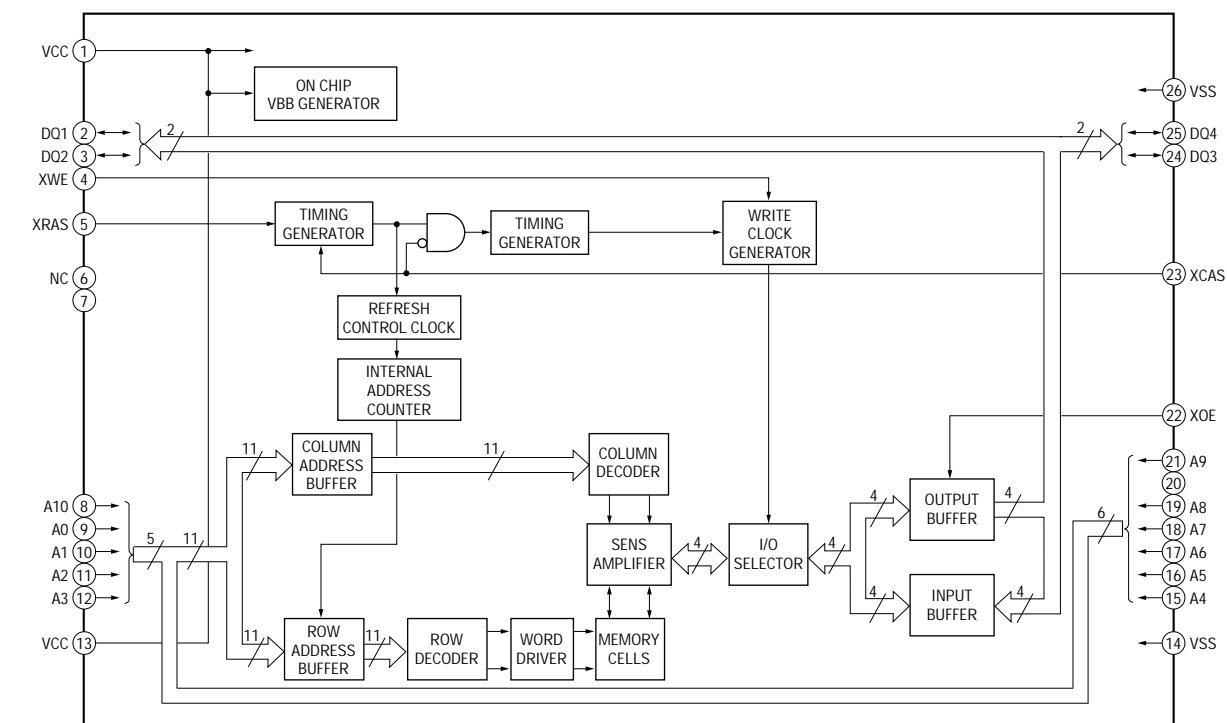


6-7. IC Block Diagrams

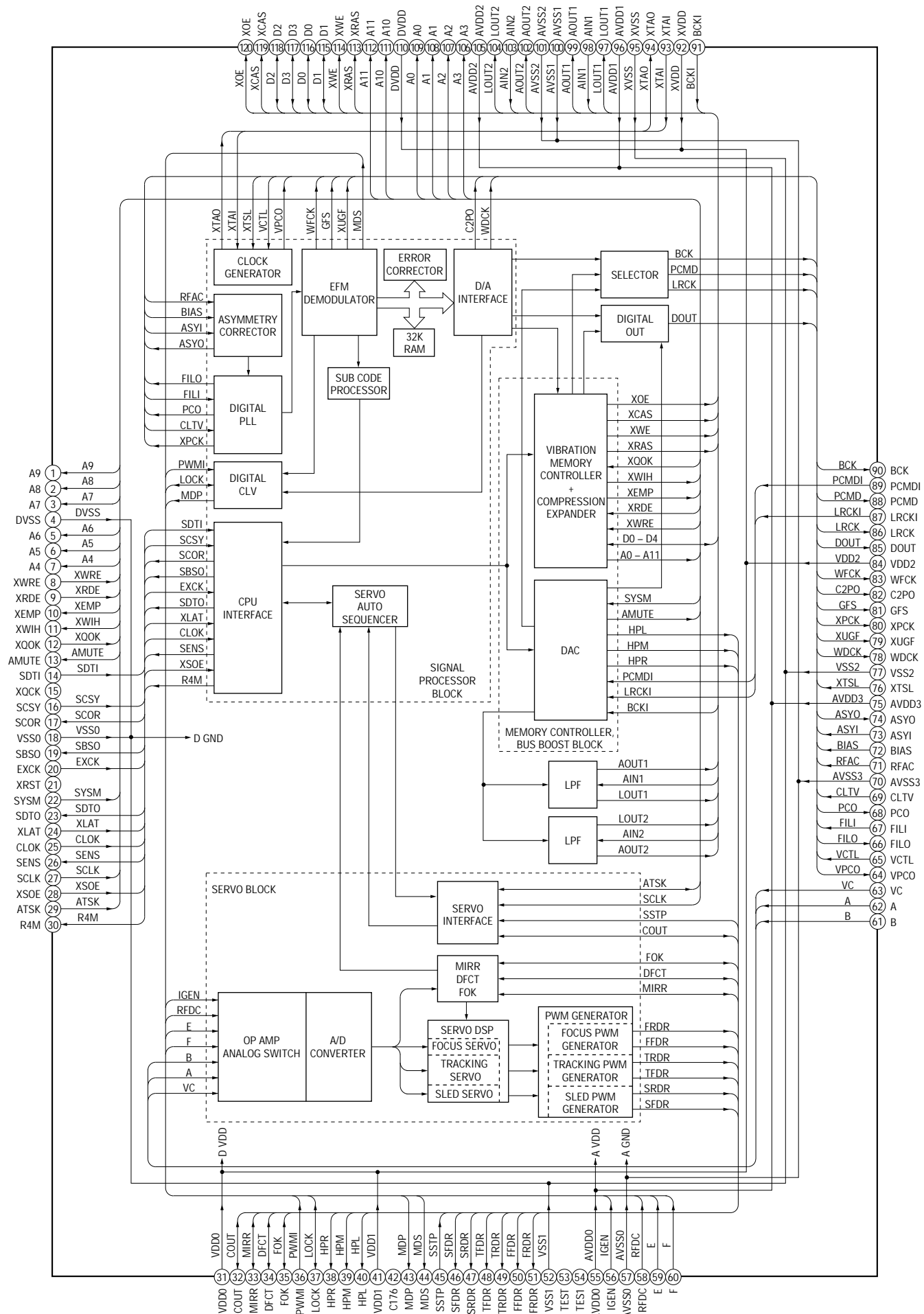
IC402 MPC17H71MTAEL



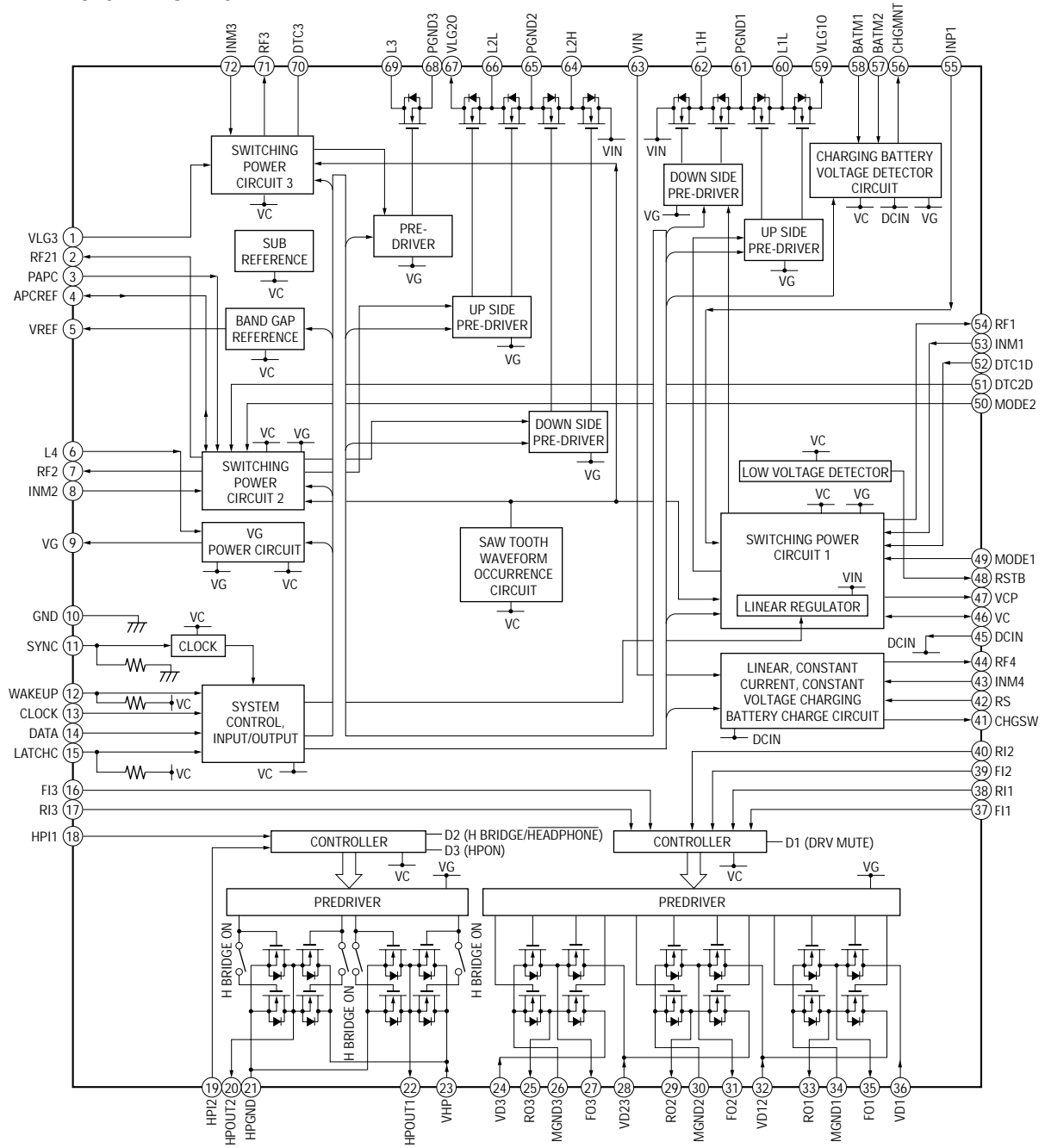
IC602 MSM51X17400D-10TFSR1



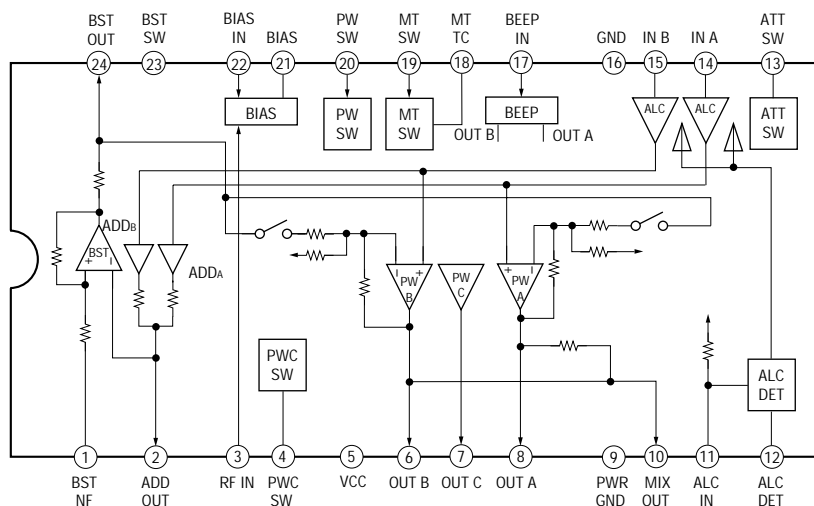
IC601 CXD3027R



## IC401 MPC17A52FTA



## IC351 TA2120FN



## SECTION 7 EXPLODED VIEWS

### NOTE:

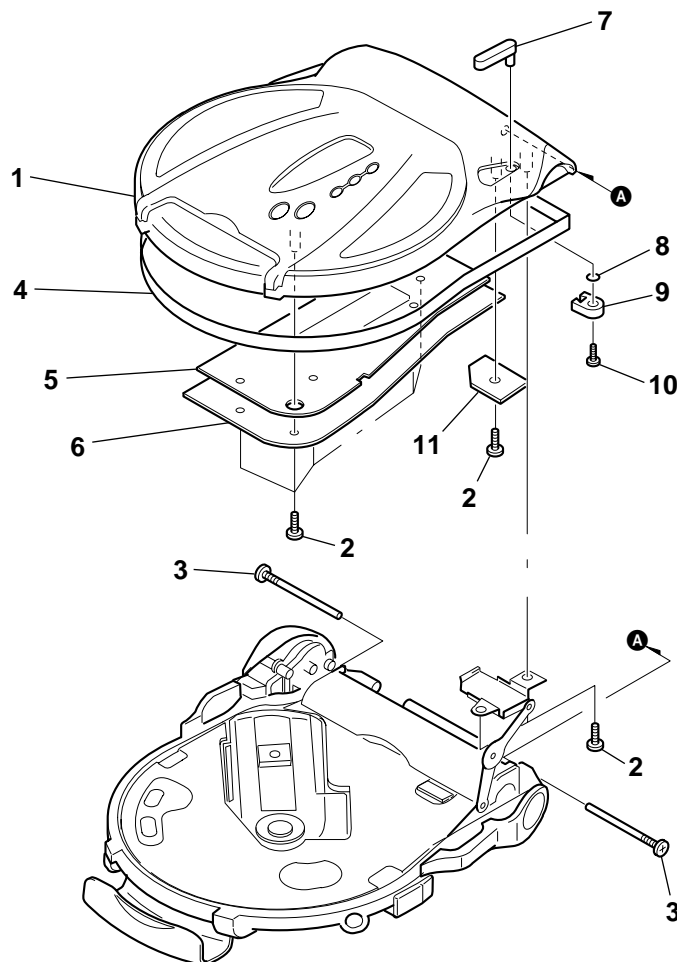
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Accessories and packing materials are given in the last of this parts list.
- Abbreviation  
 AUS : Australian model  
 CND : Canadian model  
 E33 : AC 100-240V area in E model  
 E13 : AC 220-230V area in E model

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

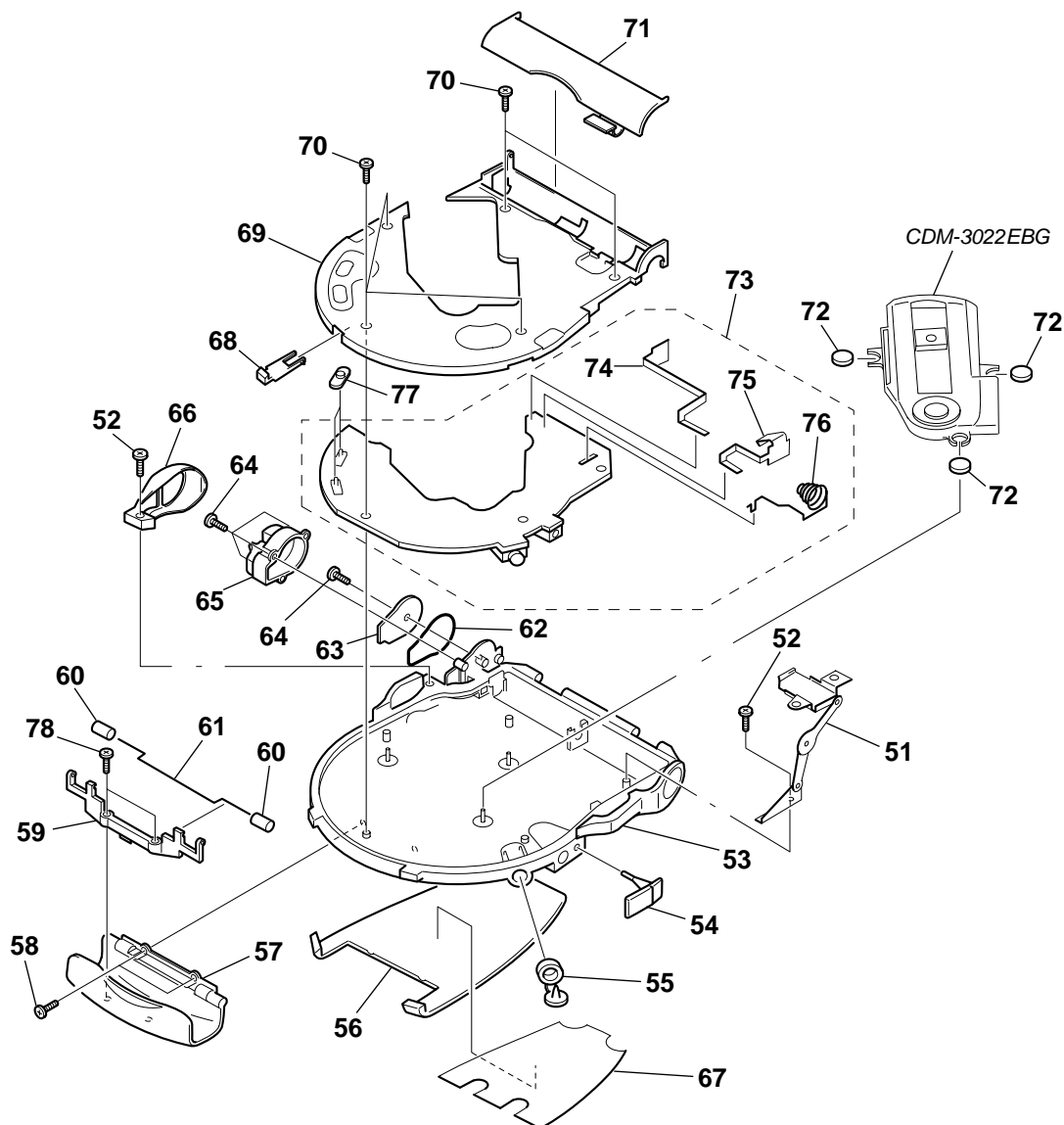
Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

### 7-1. CABINET (UPPER) SECTION



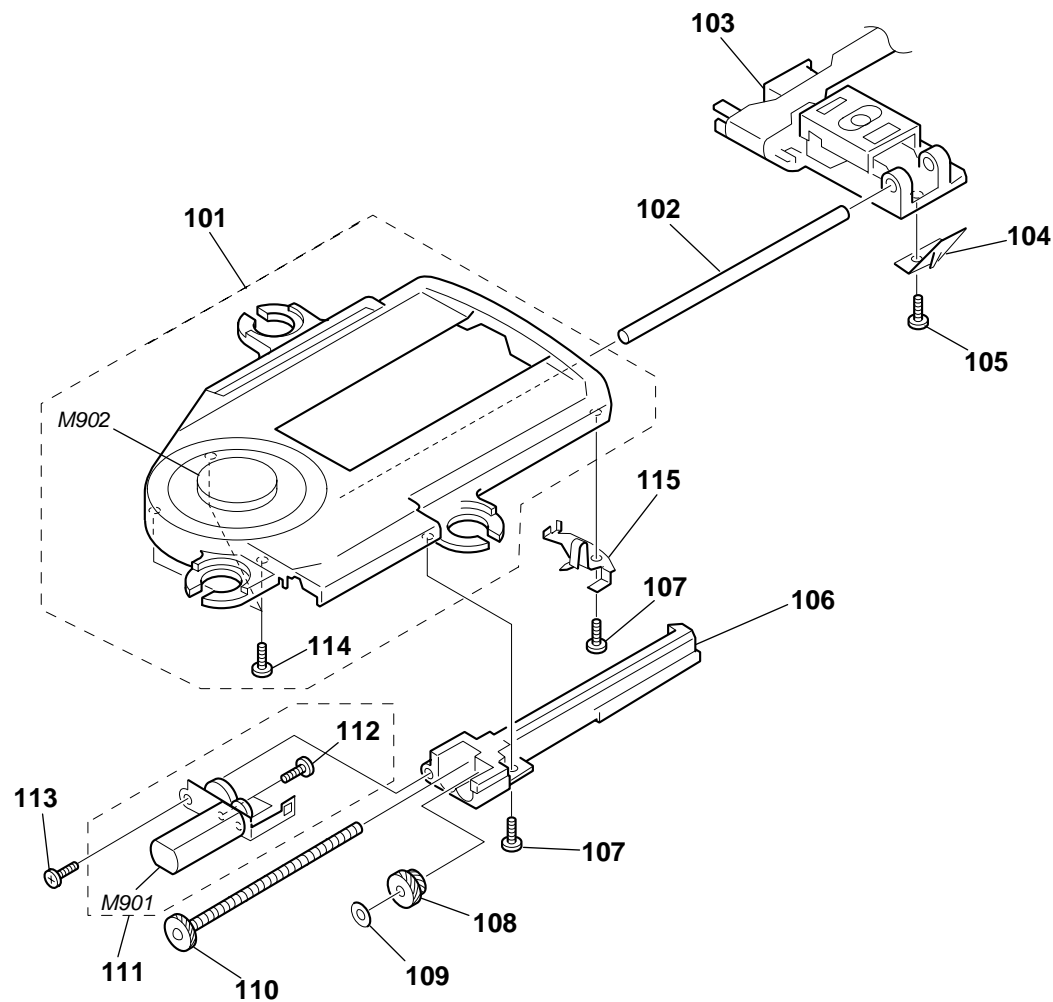
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-3379-025-1	LID ASSY, UPPER		7	4-225-295-01	LEVER (HOLD)	
2	3-713-791-01	SCREW (M1.7X4), TAPPING, P2		8	3-326-560-02	RING (DIA. 2.5XDIA. 4.5), O	
3	3-326-536-11	SCREW, TAPPING		9	4-225-296-01	LEVER (SW)	
4	4-225-308-01	PACKING (UPPER LID)		10	3-043-748-01	SCREW (B1.4)	
5	1-418-630-11	SWITCH UNIT		* 11	1-676-556-11	HOLD BOARD	
6	4-225-318-01	COVER, LID					

## 7-2. CABINET (REAR) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4952-423-1	ARM ASSY, CLICK		64	3-043-748-01	SCREW (B1.4)	
52	4-908-792-61	SCREW (B2)		65	4-225-312-01	BUTTON, CONTROL	
53	4-225-305-01	CABINET (REAR)		66	4-225-319-01	COVER, BUTTON	
54	4-225-306-01	PACKING (DC-IN)		67	3-044-224-01	SHEET (REAR), ADHESIVE	
55	3-326-520-01	PACKING, HP JACK		68	4-225-324-01	LEVER (OPEN)	
56	4-225-315-01	PLATE (REAR), ORNAMENTAL (US,CND,E13,E33,AUS)		69	4-225-320-01	CABINET (M)	
56	4-225-315-11	PLATE (REAR), ORNAMENTAL (AEP,UK)		70	4-908-792-91	SCREW (B2)	
57	X-4952-422-1	BUCKLE ASSY		71	4-225-307-01	LID, BATTERY CASE	
58	4-908-792-61	SCREW (B2)		72	4-221-927-11	INSULATOR	
59	4-225-317-01	RETAINER, ROLLER		73	A-3323-442-A	MAIN BOARD, COMPLETE	
60	4-225-316-01	ROLLER		74	4-225-309-01	TERMINAL (+), BATTERY	
61	4-225-323-01	SHAFT, ROLLER		75	4-225-311-01	PLATE, CHARGE DETECTION	
62	4-225-321-01	PACKING (OPE)		76	4-225-310-01	TERMINAL (-), BATTERY	
* 63	1-676-555-11	SWITCH BOARD		77	4-225-304-01	KNOB (AVLS)	
				78	3-704-197-61	SCREW (M1.4X4.0), LOCKING	

**7-3. CD MECHANISM DECK SECTION**  
**(CDM-3022EBG)**



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-3328-418-A	CHASSIS ASSY (INCLUDING M902)		109	3-338-645-31	WASHER (0.8-2.5)	
102	4-220-645-01	SHAFT, STANDARD		110	A-3328-298-A	SCREW ASSY, FEED	
$\triangle$ 103	X-3378-495-1	DAX-22EG RP ASSY		111	A-3328-299-A	MOTOR BLOCK ASSY, SLED (INCLUDING M901)	
104	4-220-646-01	RACK		112	4-964-564-01	SCREW (M1.2X1.6)	
105	3-704-197-92	SCREW (M1.4X1.8), LOCKING		113	3-686-458-03	SCREW (P1.4X3.5), TAPPING	
106	X-4951-687-1	BASE ASSY, SLED		114	4-973-631-31	SCREW	
107	3-348-998-61	SCREW (M1.4X4), TAPPING, PAN		115	X-4951-688-1	BRACKET ASSY, SLED	
108	4-220-648-01	GEAR (C)					

# SECTION 8 ELECTRICAL PARTS LIST

**HOLD**

**MAIN**

## NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- RESISTORS  
All resistors are in ohms.  
METAL: Metal-film resistor.  
METAL OXIDE: Metal oxide-film resistor.  
F: nonflammable
- Abbreviation  
AUS : Australian model  
CND : Canadian model  
E33 : AC 100-240V area in E model  
FR : French model  
E13 : AC 220-230V area in E model

- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS  
In each case, u :  $\mu$ , for example:  
uA.. :  $\mu$ A.. uPA.. :  $\mu$ PA..  
uPB.. :  $\mu$ PB.. uPC.. :  $\mu$ PC.. uPD.. :  $\mu$ PD..
- CAPACITORS  
uF :  $\mu$ F
- COILS  
uH :  $\mu$ H

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-676-556-11	HOLD BOARD *****		C408	1-109-982-11	CERAMIC CHIP 1uF 10%	10V
		< CONNECTOR >		C409	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V
CN951	1-793-937-21	CONNECTOR, FFC/FPC 3P  < SWITCH >		C410	1-110-569-11	TANTAL. CHIP 47uF 20%	4V
S951	1-762-078-11	SWITCH, SLIDE (HOLD) *****		C412	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
	A-3323-442-A	MAIN BOARD, COMPLETE *****		C413	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
	4-225-309-01	TERMINAL (+), BATTERY		C414	1-104-913-11	TANTAL. CHIP 10uF 20%	16V
	4-225-310-01	TERMINAL (-), BATTERY		C415	1-115-566-11	CERAMIC CHIP 4.7uF 10%	10V
	4-225-311-01	PLATE, CHARGE DETECTION  < CAPACITOR >		C416	1-115-156-11	CERAMIC CHIP 1uF	10V
C101	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C417	1-104-852-11	TANTAL. CHIP 22uF 20%	10V
C102	1-164-217-11	CERAMIC CHIP 150PF 5%	50V	C418	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C103	1-162-963-11	CERAMIC CHIP 680PF 10%	50V	C419	1-104-847-11	TANTAL. CHIP 22uF 20%	4V
C104	1-125-899-11	TANTAL. CHIP 220uF 20%	4V	C420	1-115-156-11	CERAMIC CHIP 1uF	10V
C161	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C421	1-113-682-11	TANTAL. CHIP 33uF 20%	10V
C163	1-115-566-11	CERAMIC CHIP 4.7uF 10%	10V	C422	1-162-960-11	CERAMIC CHIP 220PF 10%	50V
C201	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C423	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C202	1-164-217-11	CERAMIC CHIP 150PF 5%	50V	C424	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C203	1-162-963-11	CERAMIC CHIP 680PF 10%	50V	C425	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V
C204	1-125-899-11	TANTAL. CHIP 220uF 20%	4V	C426	1-104-851-11	TANTAL. CHIP 10uF 20%	10V
C261	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C427	1-115-156-11	CERAMIC CHIP 1uF	10V
C263	1-115-566-11	CERAMIC CHIP 4.7uF 10%	10V	C428	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C304	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C429	1-113-682-11	TANTAL. CHIP 33uF 20%	10V
C306	1-115-156-11	CERAMIC CHIP 1uF	10V	C430	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C307	1-127-569-11	TANTAL. CHIP 100uF 20%	4V	C431	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C361	1-135-259-11	TANTAL. CHIP 10uF 20%	6.3V	C432	1-110-569-11	TANTAL. CHIP 47uF 20%	6.3V
C362	1-115-156-11	CERAMIC CHIP 1uF	10V	C433	1-104-752-11	TANTAL. CHIP 33uF 20%	6.3V
C363	1-125-837-11	CERAMIC CHIP 1uF 10%	6.3V	C434	1-104-847-11	TANTAL. CHIP 22uF 20%	4V
C364	1-135-259-11	TANTAL. CHIP 10uF 20%	6.3V	C435	1-110-569-11	TANTAL. CHIP 47uF 20%	6.3V
C365	1-135-259-11	TANTAL. CHIP 10uF 20%	6.3V	C436	1-104-752-11	TANTAL. CHIP 33uF 20%	6.3V
C401	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V	C437	1-125-838-11	CERAMIC CHIP 2.2uF 10%	6.3V
C402	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C438	1-110-569-11	TANTAL. CHIP 47uF 20%	4V
C403	1-104-752-11	TANTAL. CHIP 33uF 20%	6.3V	C442	1-115-156-11	CERAMIC CHIP 1uF	10V
C404	1-104-752-11	TANTAL. CHIP 33uF 20%	6.3V	C443	1-115-156-11	CERAMIC CHIP 1uF	10V
C405	1-104-752-11	TANTAL. CHIP 33uF 20%	6.3V	C444	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V
C406	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C446	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V
C407	1-125-899-11	TANTAL. CHIP 220uF 20%	4V	C448	1-162-925-11	CERAMIC CHIP 68PF 5%	50V
				C449	1-115-566-11	CERAMIC CHIP 4.7uF 10%	10V
				C451	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
				C452	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
				C453	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
				C454	1-162-969-11	CERAMIC CHIP 0.0068uF 10%	25V
				C456	1-115-156-11	CERAMIC CHIP 1uF	10V
				C457	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
				C462	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
				C501	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C502	1-104-847-11	TANTAL. CHIP 22uF 20%	4V

# MAIN

Ref. No.	Part No.	Description	Remark
C601	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C602	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V
C604	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V
C605	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C606	1-162-965-11	CERAMIC CHIP 0.0015uF 10%	50V
C607	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C608	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C609	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V
C611	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C612	1-164-230-11	CERAMIC CHIP 220PF 5%	50V
C613	1-164-230-11	CERAMIC CHIP 220PF 5%	50V
C614	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
C615	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
C616	1-104-847-11	TANTAL. CHIP 22uF 20%	4V
C617	1-115-156-11	CERAMIC CHIP 1uF	10V
C618	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C619	1-162-917-11	CERAMIC CHIP 15PF 5%	50V
C620	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C621	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C622	1-115-156-11	CERAMIC CHIP 1uF	10V
C623	1-110-569-11	TANTAL. CHIP 47uF 20%	4V
C624	1-104-847-11	TANTAL. CHIP 22uF 20%	4V
C626	1-115-156-11	CERAMIC CHIP 1uF	10V
C627	1-162-925-11	CERAMIC CHIP 68PF 5%	50V
C628	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C629	1-162-925-11	CERAMIC CHIP 68PF 5%	50V
C630	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C631	1-162-917-11	CERAMIC CHIP 15PF 5%	50V
C801	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C802	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V
C803	1-117-720-11	CERAMIC CHIP 4.7uF	10V
C804	1-165-128-11	CERAMIC CHIP 0.22uF	16V
C805	1-165-128-11	CERAMIC CHIP 0.22uF	16V
C806	1-165-128-11	CERAMIC CHIP 0.22uF	16V
C807	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C809	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C811	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C812	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C851	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
< CONNECTOR >			
CN501	1-573-922-21	CONNECTOR, FFC/FPC (ZIF) 13P	
* CN502	1-785-877-21	HOUSING, CONNECTOR 4P	
CN503	1-784-342-21	HOUSING, CONNECTOR 2P	
* CN801	1-573-934-21	CONNECTOR, FFC/FPC (ZIF) 25P	
CN802	1-784-342-21	HOUSING, CONNECTOR 2P	
< DIODE >			
D401	8-719-049-09	DIODE 1SS367-T3SONY	
D402	8-719-058-24	DIODE RB501V-40TE-17	
D403	8-719-977-40	DIODE UDZ-TE-17-13B	
D404	8-719-049-09	DIODE 1SS367-T3SONY	
D405	8-719-077-01	DIODE CRS03(TE85L)	

Ref. No.	Part No.	Description	Remark
D406	8-719-077-01	DIODE CRS03(TE85L)	
D409	8-719-049-09	DIODE 1SS367-T3SONY	
D411	8-719-049-09	DIODE 1SS367-T3SONY	
D412	8-719-049-09	DIODE 1SS367-T3SONY	
D413	8-719-049-09	DIODE 1SS367-T3SONY	
D414	8-719-049-09	DIODE 1SS367-T3SONY	
D415	8-719-049-09	DIODE 1SS367-T3SONY	
D601	8-719-988-78	DIODE SB007W03Q	
< FERRITE BEAD >			
FB102	1-414-813-11	FERRITE BEAD INDUCTOR	
FB202	1-414-813-11	FERRITE BEAD INDUCTOR	
FB302	1-216-295-00	SHORT	0
FB303	1-216-295-00	SHORT	0
FB305	1-216-295-00	SHORT	0
FB601	1-414-760-21	FERRITE BEAD INDUCTOR	
< IC >			
IC351	8-759-522-87	IC TA2120FN(EL)	
IC401	8-759-655-73	IC MPC17A52ZFTA	
IC402	8-759-594-58	IC MPC17H71MTAEL	
IC403	8-759-594-55	IC TC75S57F(TE85R)	
IC404	8-759-653-10	IC XC61AN2402MR	
IC601	8-752-398-18	IC CXD3027R	
IC602	8-759-594-56	IC MSM51X17400D-10TFSR1	
IC801	8-759-658-94	IC TMP88CM22F-1A60	
< JACK >			
J302	1-778-224-11	JACK (SMALL TYPE) (WATERPROOF) (㊦)	
J401	1-568-907-11	JACK, DC (POLARITY UNIFIED TYPE)	(DC IN 4.5V)
< COIL >			
L304	1-216-295-00	SHORT	0
L305	1-216-295-00	SHORT	0
L401	1-414-398-11	INDUCTOR	10uH
L402	1-419-189-21	INDUCTOR	150uH
L403	1-419-188-21	INDUCTOR	100uH
L404	1-414-398-11	INDUCTOR	10uH
L405	1-414-404-41	INDUCTOR	100uH
L406	1-414-404-41	INDUCTOR	100uH
L407	1-414-435-21	INDUCTOR	220uH
L408	1-414-404-41	INDUCTOR	100uH
L409	1-414-392-41	INDUCTOR	1uH
L410	1-414-402-11	INDUCTOR	47uH
L411	1-414-402-11	INDUCTOR	47uH
L412	1-414-392-41	INDUCTOR	1uH
L413	1-412-006-31	INDUCTOR CHIP	10uH
L414	1-412-006-31	INDUCTOR CHIP	10uH
L415	1-412-006-31	INDUCTOR CHIP	10uH
L601	1-414-521-11	INDUCTOR CHIP	10uH
L602	1-414-521-11	INDUCTOR CHIP	10uH
L603	1-216-864-11	METAL CHIP	0

5% 1/16W



Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
< TRANSISTOR >							R422	1-216-845-11	METAL CHIP	100K	5%	1/16W	
Q401	8-729-023-89	FET 2SJ305(TE85L)					R423	1-216-857-11	METAL CHIP	1M	5%	1/16W	
	8-729-921-73	TRANSISTOR 2SD1781K-QR					R424	1-216-837-11	METAL CHIP	22K	5%	1/16W	
	8-729-231-74	TRANSISTOR 2SC4116-GL					R426	1-216-861-11	METAL CHIP	2.2M	5%	1/16W	
	8-729-921-93	TRANSISTOR 2SB1182F5-QR					R427	1-216-837-11	METAL CHIP	22K	5%	1/16W	
	8-729-029-14	TRANSISTOR DTC144EUA-T106											
Q406	8-729-047-36	FET CPH3303-TL					R428	1-216-833-11	RES-CHIP	10K	5%	1/16W	
	8-729-028-26	FET 2SK1829(TE85L)					R429	1-216-864-11	METAL CHIP	0	5%	1/16W	
	8-729-029-10	TRANSISTOR DTC143TUA-T106					R430	1-216-841-11	METAL CHIP	47K	5%	1/16W	
	8-729-028-74	TRANSISTOR DTA114TUA-T106					R433	1-216-839-11	METAL CHIP	33K	5%	1/16W	
	8-729-230-60	TRANSISTOR 2SA1586-YG					R434	1-216-864-11	METAL CHIP	0	5%	1/16W	
Q414	8-729-231-74	TRANSISTOR 2SC4116-GL					R436	1-216-864-11	METAL CHIP	0	5%	1/16W	
	8-729-028-76	TRANSISTOR DTA114YUA-T106					R438	1-216-864-11	METAL CHIP	0	5%	1/16W	
	8-729-907-00	TRANSISTOR DTC114EU					R439	1-216-864-11	METAL CHIP	0	5%	1/16W	
	Q801	8-729-028-83	TRANSISTOR DTA124EUA-T106					R440	1-216-864-11	METAL CHIP	0	5%	1/16W
								R441	1-216-864-11	METAL CHIP	0	5%	1/16W
< RESISTOR >							R442	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R101	1-218-875-11	METAL CHIP	15K	0.5%	1/16W		R443	1-216-833-11	RES-CHIP	10K	5%	1/16W	
	1-218-871-11	METAL CHIP	10K	0.5%	1/16W		R444	1-216-861-11	METAL CHIP	2.2M	5%	1/16W	
	1-218-871-11	METAL CHIP	10K	0.5%	1/16W		R445	1-216-864-11	METAL CHIP	0	5%	1/16W	
	1-216-831-11	METAL CHIP	6.8K	5%	1/16W		R446	1-218-887-11	METAL CHIP	47K	0.5%	1/16W	
	1-216-815-11	METAL CHIP	330	5%	1/16W		R447	1-218-879-11	METAL CHIP	22K	0.5%	1/16W	
R161	1-216-793-11	RES-CHIP	4.7	5%	1/16W		R448	1-216-864-11	METAL CHIP	0	5%	1/16W	
	1-216-821-11	METAL CHIP	1K	5%	1/16W		R450	1-216-845-11	METAL CHIP	100K	5%	1/16W	
	1-218-875-11	METAL CHIP	15K	0.5%	1/16W		R451	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
	1-218-871-11	METAL CHIP	10K	0.5%	1/16W		R452	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
	1-218-871-11	METAL CHIP	10K	0.5%	1/16W		R453	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R204	1-216-831-11	METAL CHIP	6.8K	5%	1/16W		R454	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
	1-216-815-11	METAL CHIP	330	5%	1/16W		R455	1-216-853-11	METAL CHIP	470K	5%	1/16W	
	1-216-793-11	RES-CHIP	4.7	5%	1/16W		R457	1-218-883-11	METAL CHIP	33K	0.5%	1/16W	
	1-216-821-11	METAL CHIP	1K	5%	1/16W		R458	1-218-871-11	METAL CHIP	10K	0.5%	1/16W	
	1-216-833-11	RES-CHIP	10K	5%	1/16W		R461	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R308	1-216-807-11	METAL CHIP	68	5%	1/16W		R464	1-216-833-11	RES-CHIP	10K	5%	1/16W	
	1-216-853-11	METAL CHIP	470K	5%	1/16W		R465	1-216-841-11	METAL CHIP	47K	5%	1/16W	
	1-216-841-11	METAL CHIP	47K	5%	1/16W		R466	1-216-857-11	METAL CHIP	1M	5%	1/16W	
	1-218-903-11	METAL CHIP	220K	0.5%	1/16W		R467	1-216-821-11	METAL CHIP	1K	5%	1/16W	
	1-218-888-11	METAL CHIP	51K	0.5%	1/16W		R469	1-216-853-11	METAL CHIP	470K	5%	1/16W	
R405	1-218-887-11	METAL CHIP	47K	0.5%	1/16W		R471	1-216-861-11	METAL CHIP	2.2M	5%	1/16W	
	1-218-889-11	METAL CHIP	56K	0.5%	1/16W		R474	1-218-879-11	METAL CHIP	22K	0.5%	1/16W	
	1-216-839-11	METAL CHIP	33K	5%	1/16W		R475	1-216-821-11	METAL CHIP	1K	5%	1/16W	
	1-216-841-11	METAL CHIP	47K	5%	1/16W		R476	1-216-851-11	METAL CHIP	330K	5%	1/16W	
	1-216-833-11	RES-CHIP	10K	5%	1/16W		R477	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R410	1-216-833-11	RES-CHIP	10K	5%	1/16W		R479	1-216-841-11	METAL CHIP	47K	5%	1/16W	
	1-216-847-11	METAL CHIP	150K	5%	1/16W		R601	1-216-833-11	RES-CHIP	10K	5%	1/16W	
	1-216-839-11	METAL CHIP	33K	5%	1/16W		R602	1-216-833-11	RES-CHIP	10K	5%	1/16W	
	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		R603	1-216-839-11	METAL CHIP	33K	5%	1/16W	
	1-216-833-11	RES-CHIP	10K	5%	1/16W		R605	1-216-864-11	METAL CHIP	0	5%	1/16W	
R417	1-216-811-11	METAL CHIP	150	5%	1/16W		R606	1-216-851-11	METAL CHIP	330K	5%	1/16W	
	1-216-304-11	METAL CHIP	3.3	5%	1/10W		R607	1-216-857-11	METAL CHIP	1M	5%	1/16W	
	1-216-298-00	METAL CHIP	2.2	5%	1/10W		R608	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
	1-216-298-00	METAL CHIP	2.2	5%	1/10W		R609	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
	1-216-845-11	METAL CHIP	100K	5%	1/16W		R610	1-216-833-11	RES-CHIP	10K	5%	1/16W	
						R611	1-216-845-11	METAL CHIP	100K	5%	1/16W		
						R612	1-216-833-11	RES-CHIP	10K	5%	1/16W		

# MAIN

# SWITCH

Ref. No.	Part No.	Description	Remark		
R613	1-216-864-11	METAL CHIP	0	5%	1/16W
R614	1-216-841-11	METAL CHIP	47K	5%	1/16W
R615	1-216-837-11	METAL CHIP	22K	5%	1/16W
R616	1-216-845-11	METAL CHIP	100K	5%	1/16W
R617	1-216-837-11	METAL CHIP	22K	5%	1/16W
R618	1-216-845-11	METAL CHIP	100K	5%	1/16W
R619	1-216-837-11	METAL CHIP	22K	5%	1/16W
R621	1-216-837-11	METAL CHIP	22K	5%	1/16W
R623	1-216-837-11	METAL CHIP	22K	5%	1/16W
R624	1-216-845-11	METAL CHIP	100K	5%	1/16W
R625	1-216-864-11	METAL CHIP	0	5%	1/16W
R626	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R627	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R628	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R629	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R631	1-216-845-11	METAL CHIP	100K	5%	1/16W
R632	1-216-845-11	METAL CHIP	100K	5%	1/16W
R633	1-216-819-11	METAL CHIP	680	5%	1/16W
R634	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R635	1-216-807-11	METAL CHIP	68	5%	1/16W
R636	1-216-833-11	RES-CHIP	10K	5%	1/16W
R637	1-216-864-11	METAL CHIP	0	5%	1/16W
R801	1-216-845-11	METAL CHIP	100K	5%	1/16W
R802	1-216-833-11	RES-CHIP	10K	5%	1/16W
R803	1-216-864-11	METAL CHIP	0	5%	1/16W
R804	1-216-864-11	METAL CHIP	0	5%	1/16W
R807	1-216-845-11	METAL CHIP	100K	5%	1/16W
R808	1-216-845-11	METAL CHIP	100K	5%	1/16W
R809	1-216-833-11	RES-CHIP	10K	5%	1/16W
R810	1-216-833-11	RES-CHIP	10K	5%	1/16W
R811	1-216-837-11	METAL CHIP	22K	5%	1/16W
R813	1-216-833-11	RES-CHIP	10K	5%	1/16W
R814	1-216-833-11	RES-CHIP	10K	5%	1/16W
R815	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R817	1-216-864-11	METAL CHIP	0	5%	1/16W
R819	1-216-864-11	METAL CHIP	0	5%	1/16W
R820	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R821	1-216-821-11	METAL CHIP	1K	5%	1/16W
R822	1-216-864-11	METAL CHIP	0	5%	1/16W
R824	1-216-819-11	METAL CHIP	680	5%	1/16W
R825	1-216-849-11	METAL CHIP	220K	5%	1/16W
R830	1-216-843-11	METAL CHIP	68K	5%	1/16W
R831	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R832	1-216-821-11	METAL CHIP	1K	5%	1/16W
R851	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R852	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R853	1-216-295-00	SHORT	0		
R854	1-216-864-11	METAL CHIP	0	5%	1/16W
R861	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
< SWITCH >					
S801	1-762-805-41	SWITCH, PUSH (1 KEY) (OPEN)			
S803	1-570-711-11	SWITCH, SLIDE (AVLS)			

Ref. No.	Part No.	Description	Remark		
S805	1-570-711-11	SWITCH, SLIDE (G-PROTECTION)			
< VARISTOR >					
VDR102	1-801-862-11	VARISTOR, CHIP			
VDR202	1-801-862-11	VARISTOR, CHIP			
VDR303	1-801-862-11	VARISTOR, CHIP			
VDR601	1-801-862-11	VARISTOR, CHIP			
< VIBRATOR >					
X601	1-767-605-11	VIBRATOR, LITHIUM TANTALATE (16.9MHz)			
*****					
*	1-676-555-11	SWITCH BOARD			
*****					
	1-792-590-11	LEAD (WITH CONNECTOR)			
< RESISTOR >					
R901	1-216-821-11	METAL CHIP	1K	5%	1/16W
R902	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R903	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
< SWITCH >					
S901	1-771-721-21	SWITCH, TACTILE (▶▶▶)			
S902	1-771-721-21	SWITCH, TACTILE (▶▶▶)			
S903	1-771-721-21	SWITCH, TACTILE (▶▶▶)			
S904	1-771-721-21	SWITCH, TACTILE (■ CHG)			
*****					
MISCELLANEOUS					
*****					
5	1-418-630-11	SWITCH UNIT			
101	A-3328-418-A	CHASSIS ASSY (INCLUDING M902)			
△ 103	X-3378-495-1	DAX-22EG RP ASSY			
111	A-3328-299-A	MOTOR BLOCK ASSY, SLED (INCLUDING M901)			
*****					

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

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

Ref. No.	Part No.	Description	Remark
	ACCESSORIES & PACKING MATERIALS		
	*****		
△	1-418-261-11	ADAPTOR, AC (AC-E455F) (AEP,E13)	
△	1-418-264-11	ADAPTOR, AC (AC-E455A) (AUS)	
△	1-467-009-21	ADAPTOR, AC (AC-E455) (US,CND)	
△	1-467-550-24	ADAPTOR, AC (AC-E455A) (E33)	
△	1-473-115-11	ADAPTOR, AC (AC-E455D) (UK)	
△	1-569-007-11	ADAPTOR, CONVERSION 2P (E33)	
	1-756-035-51	BATTERY PACK (NC-WMAA) (E13,E33,AUS)	
	1-756-035-61	BATTERY PACK (NC-WMAA) (AEP,UK)	
	1-756-035-71	BATTERY PACK (NC-WMAA) (US,CND)	
	3-044-223-01	BELT, STRAP	
	3-047-839-11	MANUAL, INSTRUCTION (ENGLISH) (US)	
	3-868-143-11	MANUAL, INSTRUCTION (SPANISH) (AEP,E33)	
	3-868-143-21	MANUAL, INSTRUCTION (ENGLISH)	
	3-868-143-31	MANUAL, INSTRUCTION (FRENCH) (CND,AEP)	
	3-868-143-41	MANUAL, INSTRUCTION (DUTCH) (AEP)	
	3-868-143-51	MANUAL, INSTRUCTION (SWEDISH) (AEP)	
	3-868-143-61	MANUAL, INSTRUCTION (PORTUGUESE) (AEP)	
	3-868-143-71	MANUAL, INSTRUCTION (GERMAN) (AEP)	
	3-868-143-81	MANUAL, INSTRUCTION (ITALIAN) (AEP)	
	3-868-143-91	MANUAL, INSTRUCTION (FINNISH) (AEP)	
	3-868-144-11	MANUAL, INSTRUCTION (CHINESE) (E13)	
	8-953-273-83	RECEIVER, EAR MDR-G051LP (CND)	
	8-953-284-91	HEADPHONE MDR-W014LP (EXCEPT CND)	

The components identified by mark △ or dotted line with mark. △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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