

CDP-497

SERVICE MANUAL

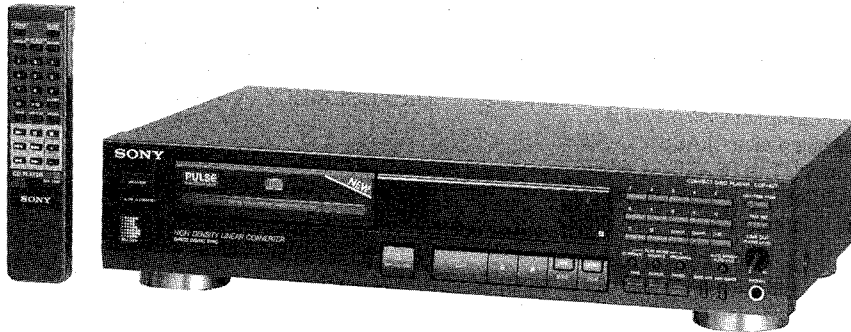


Photo: AEP Model

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

Model Name Using Similar Mechanism	CDP-295
CD Mechanism Type	CDM14-5BD8A
Optical Pick-Up Block Type	BU-5BD8A

SPECIFICATIONS

Compact disc player

Frequency response	2 Hz to 20 kHz $\pm$ 0.5 dB
Signal-to-noise ratio	More than 100dB
Dynamic range	More than 98 dB
Harmonic distortion	Less than 0.0035%
Channel separation	More than 100 dB

Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2V (at 50 kilohms) Load impedance over 10 kilohms
LINE OUT (VARIABLE) (phono jack) (only for the UK and AEP model)	Output level max. 2V (at 50 kilohms) Load impedance over 50 kilohms
PHONES (stereo phone jack)	Output level max. 10 mW Load impedance 32 ohms

General

Power requirements	AEP model: 220V — 230V AC, 50/60Hz UK, Australian model: 240V AC, 50/60 Hz US, Canadian model: 120V AC, 60 Hz E model: 110 — 120V/220 — 240V AC, adjustable with the voltage selector, 50/60 Hz Power consumption 12W
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Dimensions (approx., including projections)	430 $\times$ 100 $\times$ 295 mm (w/h/d) (17 $\times$ 4 $\times$ 11 5/8 inches)
Weight (approx.)	3.5 kg (7 lbs 12 oz)

Remote commander

(AEP, G, UK model: RM-D597

US, Canadian, E, Australian model: RM-D297)

Remote control system	Infrared control
Power requirements	3V DC with two R6 (size AA) batteries
Dimensions (approx., including projections)	40 $\times$ 20 $\times$ 175 mm (w/h/d) (1 5/8 $\times$ 13/16 $\times$ 7 inches)
Weight (approx.)	95g (4oz)

Supplied accessories

Audio cord	(1) (2 phono plugs — 2 phono plugs)
Remote commander	(1)
R6 (AA) batteries	(2)

Design and specifications are subject to change without notice.

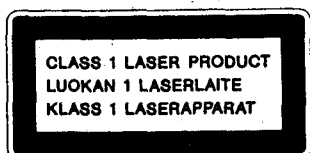
COMPACT DISC PLAYER
SONY®



1. Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous

For the United Kingdom and European countries



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

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!

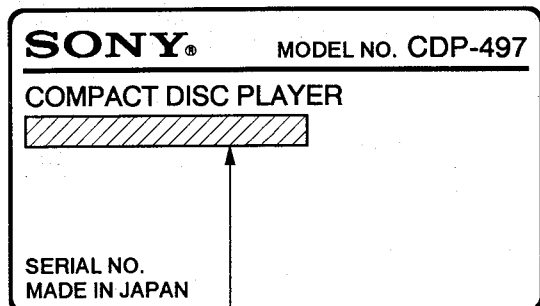
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE $\triangle$ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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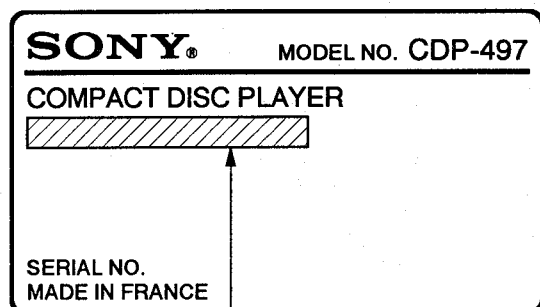
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MODEL IDENTIFICATION

— SPECIFICATION LABEL —



US, Canadian MODEL: AC:120V 60Hz 12W
 AEP MODEL: AC:220-230V~ 50/60Hz
 Australian MODEL: AC:240V~ 50/60Hz
 E MODEL: AC:110-120, 220-240V~
 50/60Hz 12W



AEP MODEL: AC:220-230V~ 50/60Hz
 UK MODEL: AC:240V~ 50/60Hz

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal part to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

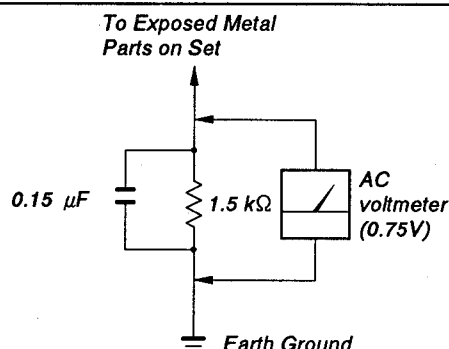


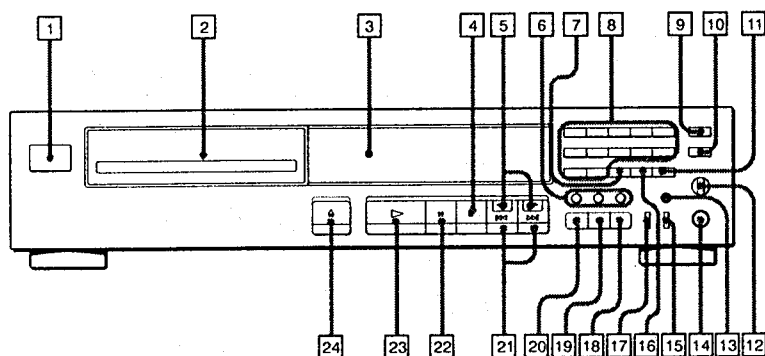
Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1

GENERAL

Identifying the Parts

Front Panel



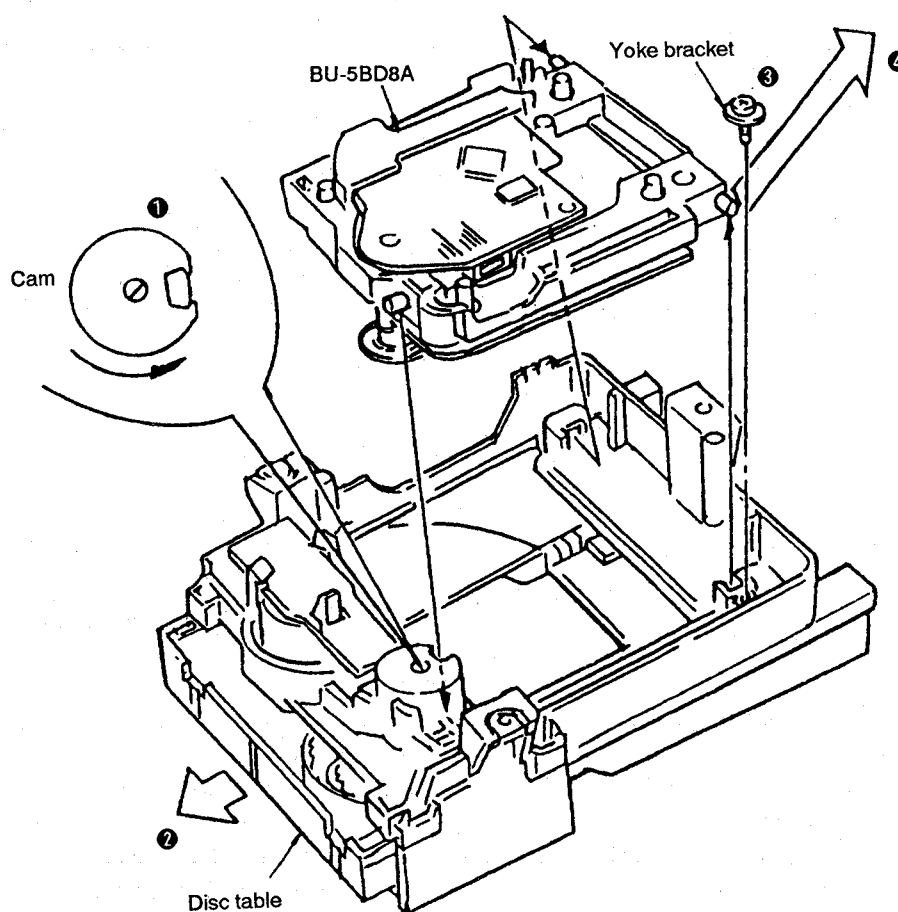
- 1 POWER switch
- 2 Disc tray
- 3 Display window
- 4 ■ (stop) button
- 5 ◀▶ (manual search) buttons
- 6 Play mode buttons
 - CONTINUE button
 - SHUFFLE button
 - PROGRAM button
- 7 CHECK (program check) button
- 8 Numeric buttons
- 9 EDIT/TIME FADE button
- 10 TIME SET button
- 11 > 12 (over 12) button
- 12 LINE OUT/PHONE LEVEL control
(for the model for the United Kingdom and European countries)
- PHONE LEVEL control
(for the model for other countries)
- 13 AUTO SPACE/AUTO CUE button
- 14 PHONES jack
- 15 PEAK SEARCH button
- 16 CLEAR (program clear) button
- 17 MUSIC SCAN button
- 18 FADER button
- 19 REPEAT button
- 20 TIME button
- 21 ◀▶ (AMS*) buttons
- 22 || (pause) button
- 23 ▶ (play) button
- 24 ▲ OPEN/CLOSE button

* AMS is the abbreviation of Automatic Music Sensor.

SECTION 2 DISASSEMBLY

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

- ❶ Turn the cam to the direction of arrow (Counter clock wise) by minus screw driver.
- ❷ Take off the disc table.
- ❸ Remove the yoke bracket.
- ❹ Remove the MD (BU-5BD8A) to the direction of arrow.

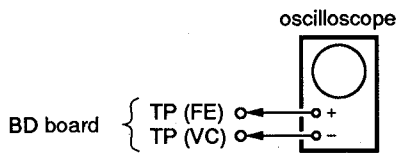


SECTION 3

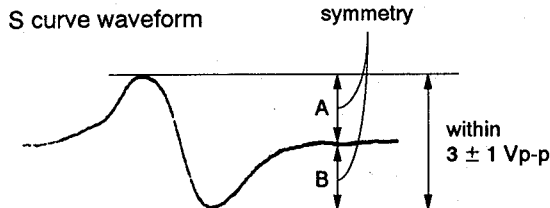
ELECTRICAL BLOCK CHECKING

Note:

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YDES-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than $10M\Omega$ impedance.
4. Clean an object lens by an applicator with neutral detergent with the signal level is low than specified value with the following checks.

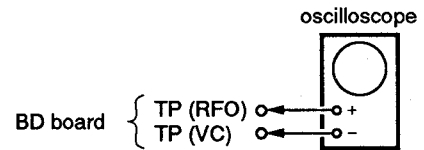
S Curve Check**Procedure:**

1. Connect oscilloscope to test point TP (FE) on BD board.
2. Connect between test point TP (FEI) and TP (VC) by lead wire.
3. Turn Power switch on and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3 ± 1 Vp-p.



5. After check, remove the lead wire connected in step 2.

- Note:**
- Try to measure several times to make sure that the ratio of A:B or B:A is more than 10:7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check**Procedure:**

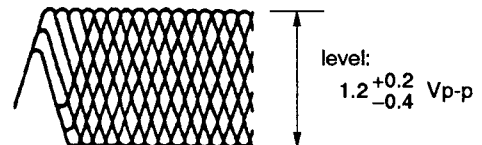
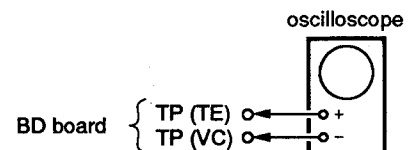
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note:

Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.

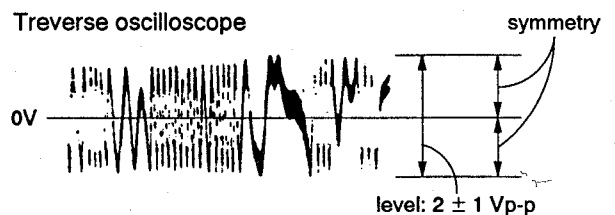
RF signal waveform

VOLT/DIV: 200 mV
TIME/DIV: 500 nS

**E-F Balance Check****Procedure:**

1. Connect test point TP (ADJ) to ground and TP (TEI) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TE) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

Treverse oscilloscope



6. Remove the lead wire connected in step 1.

SECTION 4

DIAGRAMS

4-1. PIN FUNCTIONS

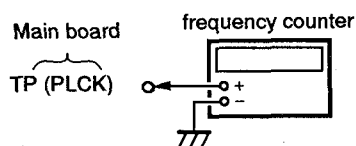
• IC101 (CXD2501Q) PIN FUNCTION

Pin No.	Pin Name	I/O	Function
1	ADII	I	A/D signal input.
2	ADIO	O	Analog switch output.
3	RF	I	RF signal input.
4	TE	I	Tracking error signal input.
5	SE	I	SE signal input.
6	NC		Not used.
7	FE	I	Focus error signal input.
8	VC	I	Center voltage (2.5V) input.
9	DVss		Digital GND.
10	NC		Not used.
11	ATSK		
12	NC		
13	DFSW	I	Prevents the DFCT circuit from operating at "H".
14	DFCT	O	DFCT signal output.
15	XTAL	I	Master clock signal input.
16	NC		Not used.
17	XTSL	I	Frequency switching of input master clock signal. 22 MHz at "H". 11 MHz at "L".
18	LOCK	I	Lock signal input.
19	FOK	O	Focus OK signal output.
20	MIRR	O	Mirror signal output.
21	CLK	I	Clock signal when transmitting data from micro processor.
22	NC		Not used.
23	XLT	I	Latch signal when transmitting data from micro processor.
24	DATA	I	Data from micro processor.
25	COUT	O	Track jump number count signal output.
26	NC		Not used.
27	DVDD		Digital +5V.
28	NC		Not used.
29	SENS	O	SENS signal output.
30	SCLK	I	Serial data reading clock.
31	NC		Not used.
32	DIRC	I	DIRC signal input.
33	XRST	I	Reset signal input.
34	SOCK		Not used.
35	XOLT		
36	SOUT		
37	NC		
38	SFDR	O	Sled drive signal output (FWD).
39	SRON		Not used.
40	SRDR	O	Sled drive signal output (REVERSE).
41	SFON		Not used.
42	NC		
43	DVss		Digital GND.
44	NC		Not used.

RF PLL Free-run Frequency Check

Procedure:

1. Connect frequency counter to test point (PLCK) with lead wire.



2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218 MHz.

Focus/Tracking Gain

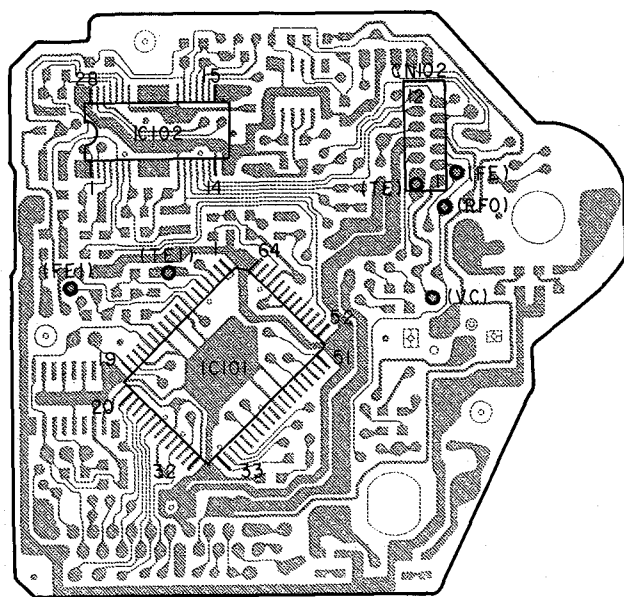
This gain has a margin, so even if it is slightly off.

There is no problem.

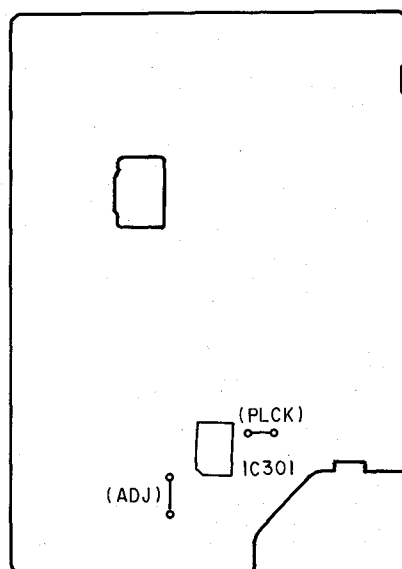
Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

[BD BOARD] — Conductor Side —



[MAIN BOARD] — Component Side —



Pin No.	Pin Name	I/O	Function
45	TEST		Fixed at "L".
46	NC		Not used.
47	TRDF	O	Tracking drive signal output (FWD).
48	TRON		Not used.
49	TRDR	O	Tracking drive signal output (REVERSE).
50	TFON		Not used.
51	FFDR	O	Focus drive signal output (FWD).
52	FRON		Not used.
53	FRDR	O	Focus drive signal output (REVERSE).
54	FFON		Not used.
55	NC		
56	SSTP	I	Limit switch detection.
57	NC		Not used.
58	CDS	I	Used at "H".
59	NC		Not used.
60	DVDD		Digital +5V.
61	AVDD		Analog +5V.
62	IGEN		Input for the ope-amp current supply.
63	NC		Not used.
64	AVss		Analog GND.

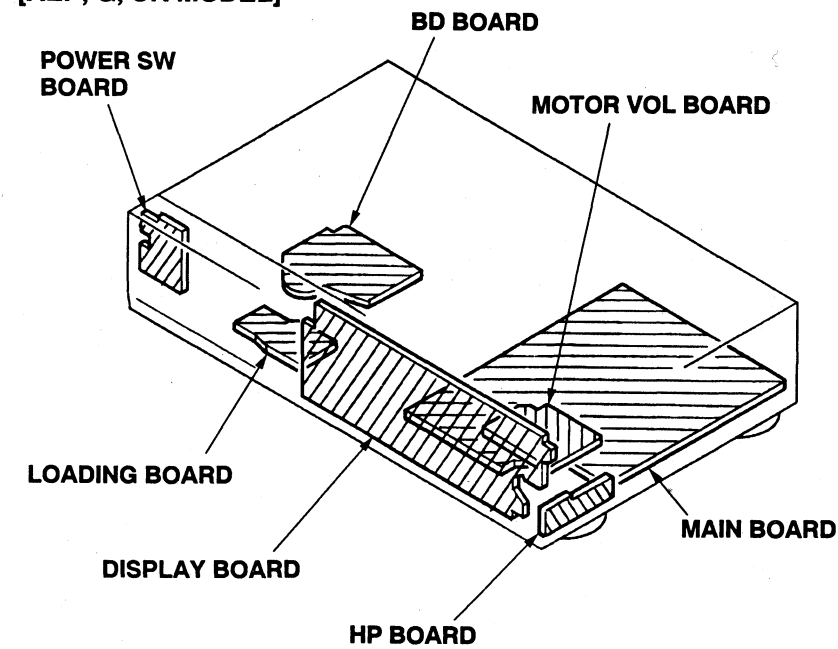
• IC301 (CXD2500QA) PIN FUNCTION

Pin No.	Pin Name	I/O	Function
1	FOK	I	Focus OK input pin. Used for SENS output and servo auto sequencer.
2	FSW	O	Spindle motor output filter switching output.
3	MON	O	Spindle motor ON-OFF control output.
4	MDP	O	Spindle motor servo control.
5	MDS	O	Spindle motor servo control.
6	LOCK	O	Samples GFS at 460 Hz, and outputs H when GFS is H. Outputs L if L continues eight times.
7	NC	—	
8	VCOO	O	Oscillation circuit output for analog EFM PLL.
9	VCOI	I	Oscillation circuit input for analog EFM PLL. f _{LOCK} =8.6436 MHz.
10	TEST	I	TEST pin. Normally GND.
11	PDO	O	Charge pump output for analog EFM and PLL.
12	Vss		GND
13	NC	—	
14	NC	—	
15	NC	—	
16	VPCO	O	PLL charge pump output for variable pitch.
17	VCKI	I	Clock input from the external VCO for variable pitch. f _{Ccenter} =16.9344 MHz.
18	FILO	O	Filter output for master PLL (Slave=Digital PLL).
19	FILI	I	Filter input for master PLL.
20	PCO	O	PLL charge pump output for master PLL.
21	AVss		Analog GND
22	CLTV	I	Master VCO control voltage input.
23	AVDD		Analog power supply (+5V)
24	RF	I	EFM signal input.
25	BIAS	I	Asymmetry circuit regulated current input.
26	ASYI	I	Asymmetry comparative voltage input.
27	ASYO	O	EFM full swing output (L=Vss, H=VDD)
28	ASYE	I	L:Asymmetry circuit OFF H:Asymmetry circuit ON.
29	NC	—	Not used.
30	PSSL	I	Audio data output mode switching input. Serial output at L, parallel output at H.
31	WDCK	O	D/A interface for 48 bit slot. Word-clock f=2Fs.
32	LRCK	O	D/A interface for 48 bit slot. LR clock f=Fs.
33	VDD		Power supply (+5V).
34	DA16	O	DA16 (MSB) output when PSSL=1. 48 bit slot serial data when PSSL=0 (2s'COMP, MSB first).
35	DA15	O	DA15 output when PSSL=1. 48 bit slot bit clock when PSSL=0.
36	DA14	O	DA14 output when PSSL=1. 64 bit slot serial data when PSSL=0 (2s'COMP, LSB first)
37	DA13	O	DA13 output when PSSL=1. 64 bit slot bit clock when PSSL=0.
38	DA12	O	DA12 output when PSSL=1. 64 bit slot LR clock when PSSL=0.
39	DA11	O	DA11 output when PSSL=1. GTOF output when PSSL=0.
40	AD10	O	DA10 output when PSSL=1. XUGF output when PSSL=0.
41	DA09	O	DA09 output when PSSL=1. XPLCK output when PSSL=0.
42	DA08	O	DA08 output when PSSL=1. GFS output when PSSL=0.
43	DA07	O	DA07 output when PSSL=1. RFCK output when PSSL=0.
44	DA06	O	DA06 output when PSSL=1. C2P0 output when PSSL=0.
45	DA05	O	DA05 output when PSSL=1. XRAOF output when PSSL=0.

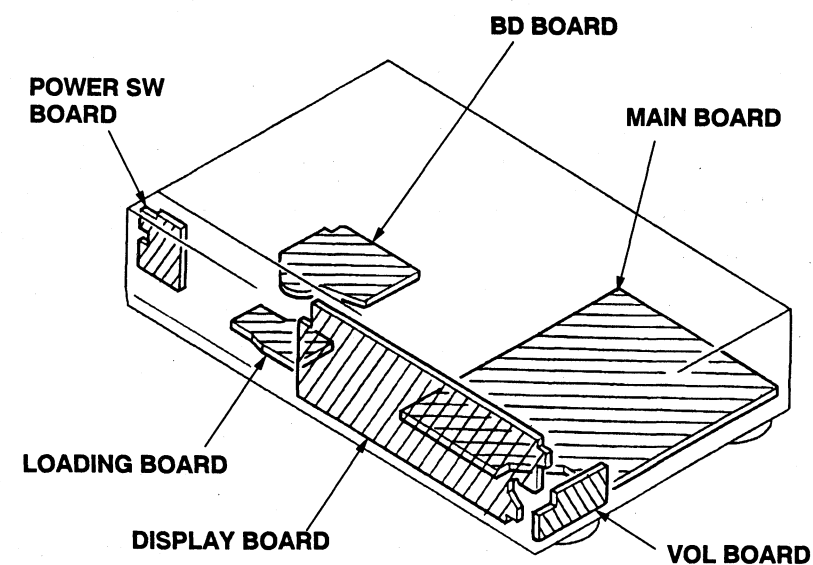
Pin No.	Pin Name	I/O	Function
46	DA04	O	DA04 output when PSSL=1. MNT3 output when PSSL=0.
47	DA03	O	DA03 output when PSSL=1. MNT2 output when PSSL=0.
48	DA02	O	DA02 output when PSSL=1. MNT1 output when PSSL=0.
49	DA01	O	DA01 output when PSSL=1. MNT0 output when PSSL=0.
50	APTR	O	Aperture correction control output. H when Rch.
51	APTL	O	Aperture correction control output. H when Lch.
52	Vss		GND
53	XTAI	I	16.9344 MHz crystal oscillation circuit input. Or 33.8688 MHz input.
54	XTAO	O	16.9344 MHz crystal oscillation circuit input.
55	XTSL	I	Crystal selection input pin. Set to L when crystal is 16.9344 MHz. Set to H when 33.8688 MHz.
56	FSTT	O	2/3 frequency division output of Pins ③ and ④. Will not change by variable pitch.
57	C4M	O	4.2336 MHz output. Varies simultaneously with pitch.
58	C16M	O	16.9344 MHz output. Varies simultaneously with pitch.
59	MD2	I	Digital-Out ON/OFF control. ON at H, OFF at L.
60	DOUT	O	Digital-Out output pin.
61	EMPH	O	Outputs H if emphasis is present in the playback disc. Outputs L when it is absent.
62	WFCk	O	WFCk (Write Frame Clock) output.
63	SCOR	O	Outputs H when either sub-code sync S0 or S1 has been detected.
64	SBSO	O	SubP to W serial output.
65	EXCK	I	SBSO read-out clock input.
66	SQSO	O	SubQ 80 bit and PCM peak level data 16 bit output.
67	SQCK	I	SQSO read-out clock input.
68	MUTE	I	Mute at H, release at L.
69	SENS	—	SENS output. Outputs to CPU.
70	XRST	I	System reset. Resets at "L".
71	DATA	I	Serial data input from CPU.
72	XLAT	I	Latch input from CPU. Latches the serial data at falling.
73	VDD		Power supply (+5V).
74	CLOCK	I	Serial data transmission clock input from CPU.
75	SEIN	I	SENS input from SSP.
76	CNIN	I	Track jump number count signal input.
77	DATO	O	Outputs the serial data to SSP.
78	XLTO	O	Outputs the serial data latch to SSP. Latches at falling.
79	CLKO	O	Outputs the serial data transmission clock to SSP.
80	MIRR	I	Mirror signal input. Uses for a jump above 128 track with auto sequencer. 1, 0

4-2. CIRCUIT BOARDS LOCATION

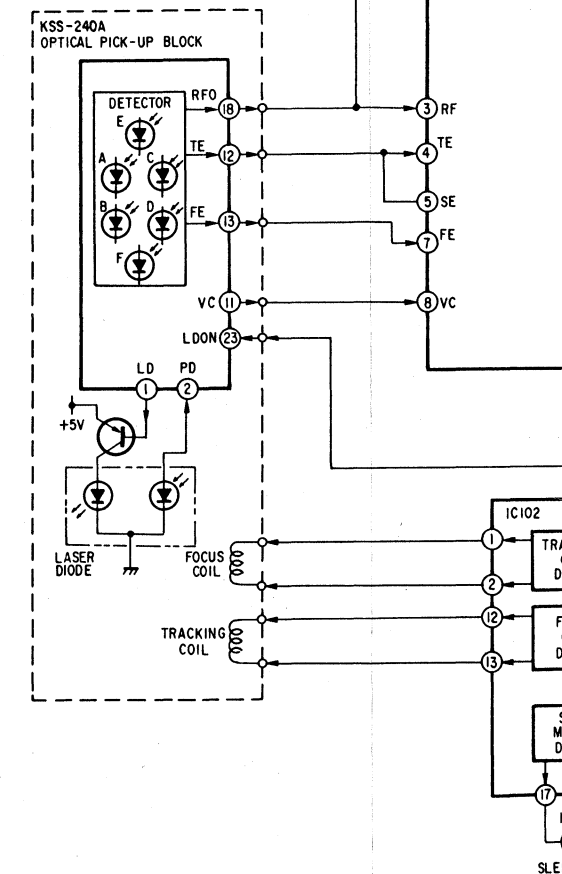
[AEP, G, UK MODEL]



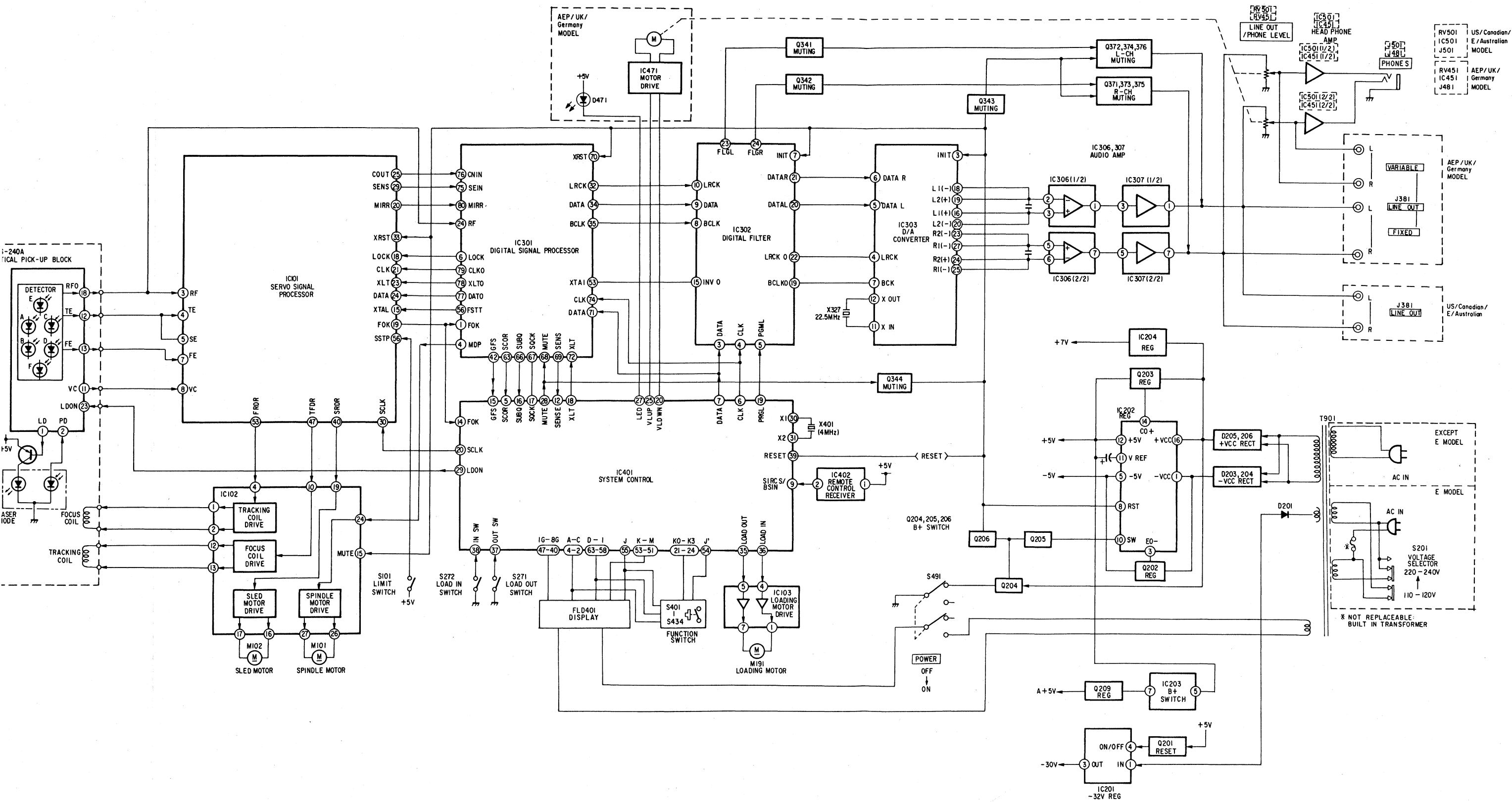
[US, Canadian, E, Australian MODEL]



4-3. BLOCK DIAGRAM



BLOCK DIAGRAM



4-4. PRINTED WIRING BOARDS — MAIN BLOCK —

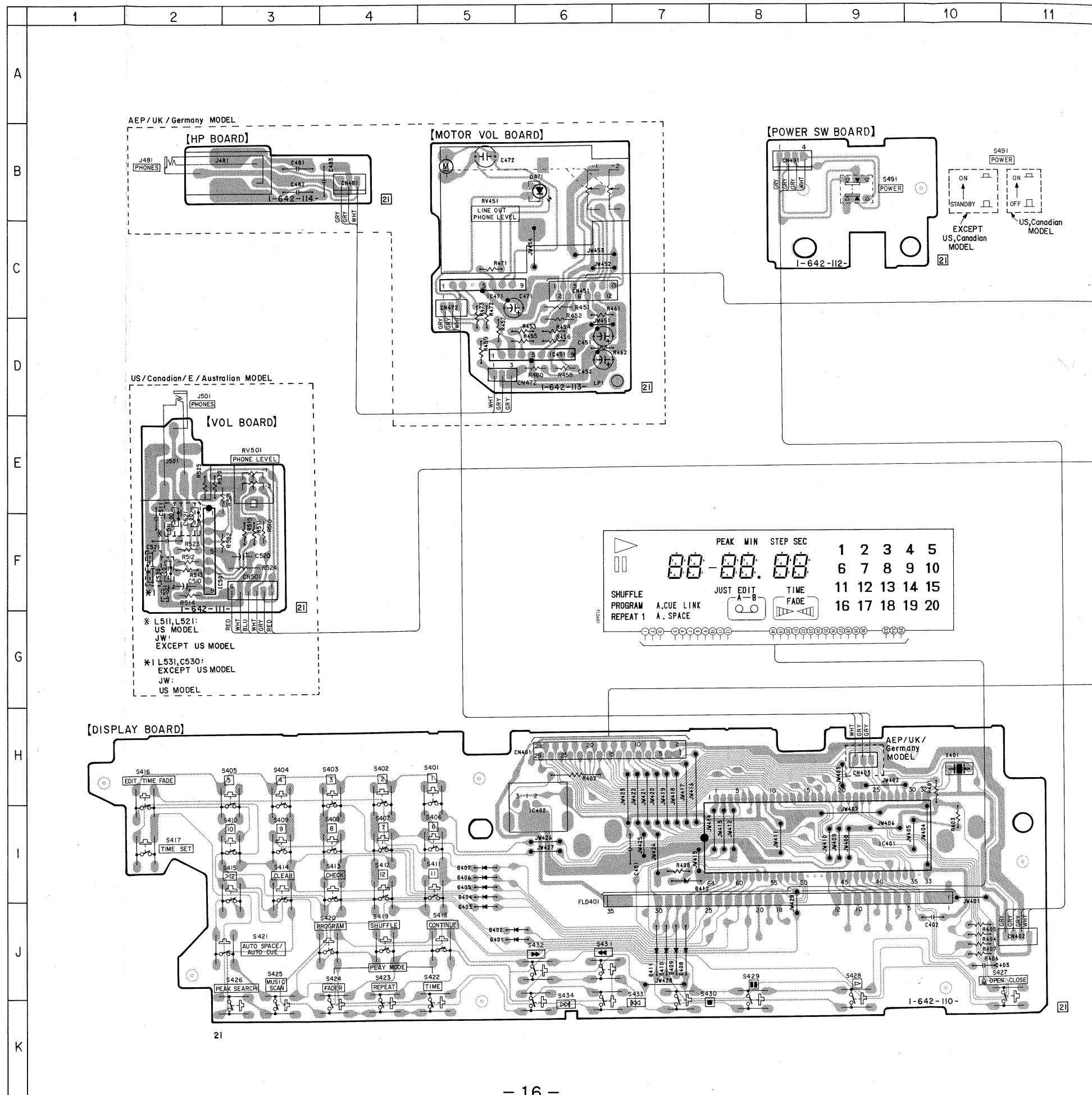
- "Semiconductor Laed Layouts" is inserted on page 23.

• SEMICONDUCTORS LOCATION

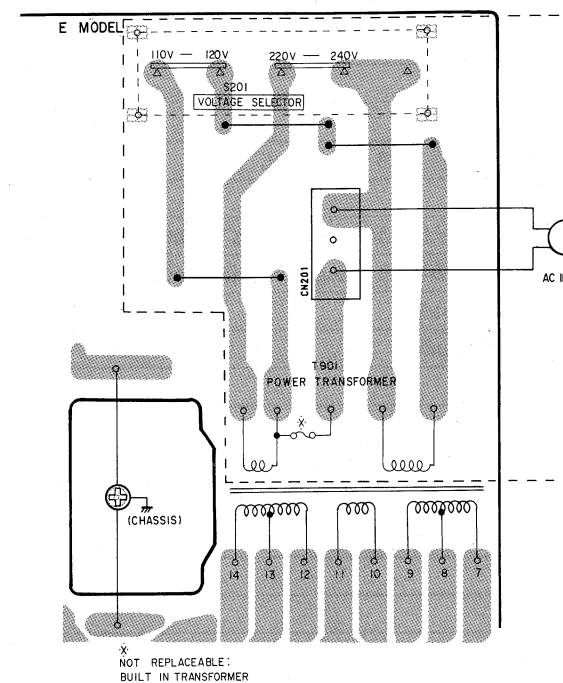
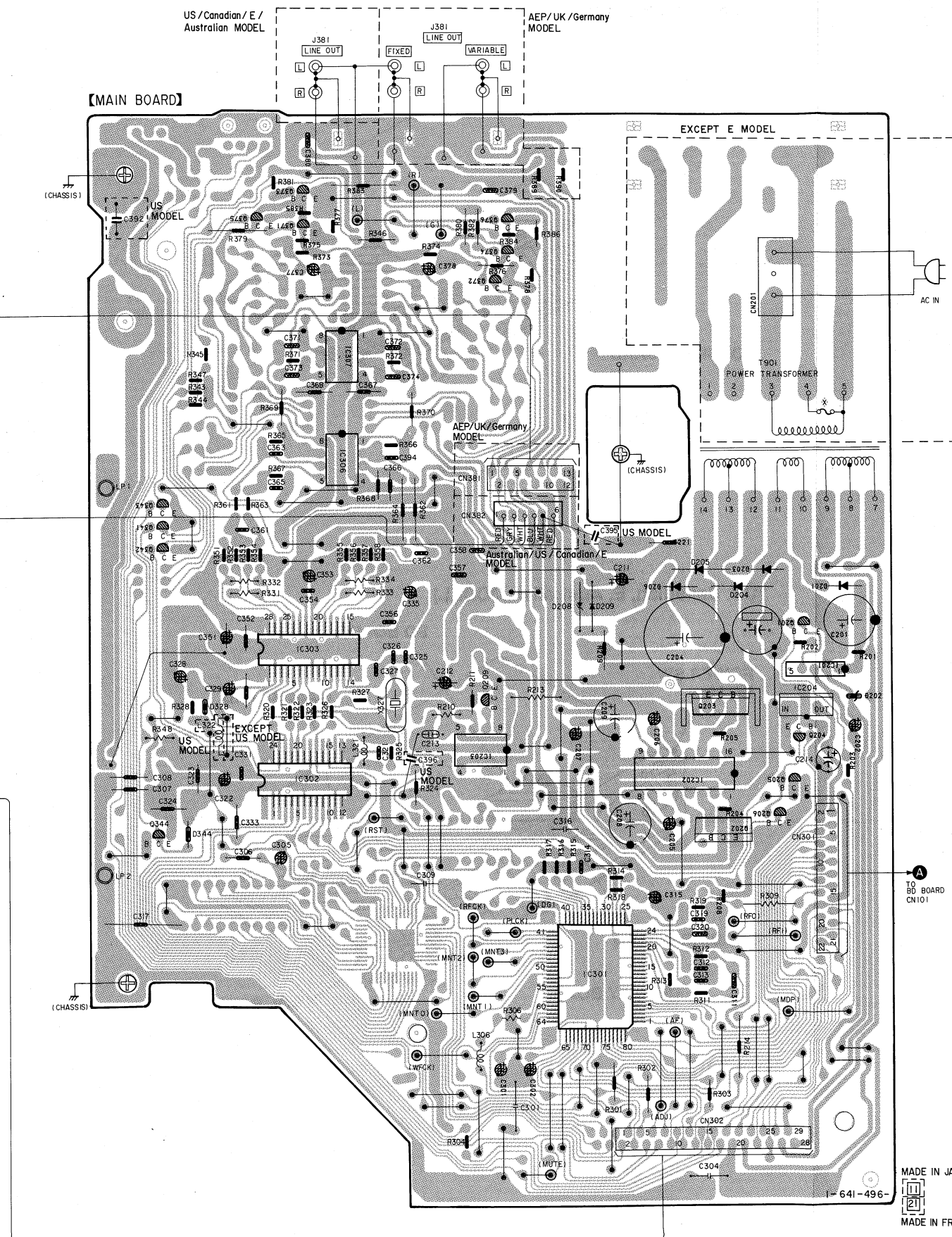
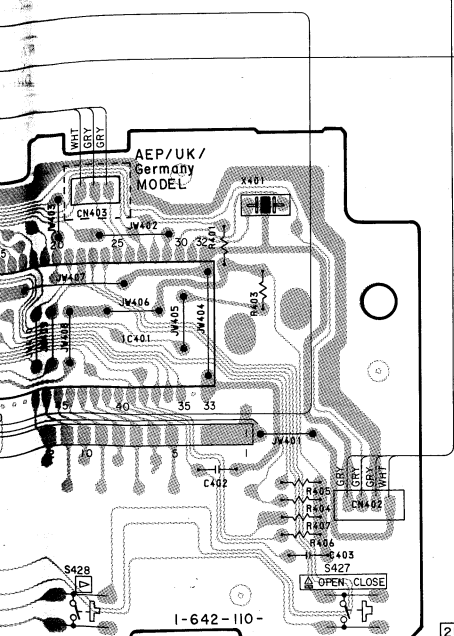
Ref. No.	Location
D201	F-18
D202	G-18
D203	F-18
D204	F-17
D205	F-17
D206	F-17
D208	F-16
D209	F-16
D328	G-13
D344	H-13
D401	J-5
D402	J-5
D403	J-5
D404	J-5
D405	J-5
D406	I-5
D407	I-5
D408	J-7
D409	J-7
D410	J-7
D411	J-7
D412	J-7
D471	B-6
IC201	F-18
IC202	G-17
IC203	G-15
IC204	G-18
IC301	I-16
IC302	G-14
IC303	F-14
IC306	E-14
IC307	D-14
IC401	I-9
IC402	I-6
IC451	D-6
IC471	C-5
IC501	F-2
Q201	F-18
Q202	H-17
Q203	G-17
Q204	G-18
Q205	G-18
Q206	H-18
Q209	G-15
Q341	E-13
Q342	E-13
Q343	E-13
Q344	H-13
Q371	C-14
Q372	C-15
Q373	C-14
Q374	C-15
Q375	C-13
Q376	C-15

Note:

- — : indicated a lead wire mounted on the component side.



1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20



MADE IN JAPAN
[11]
[21]
MADE IN FRANCE

- "IC Block Diagrams" is inserted on page 25 to page 26.





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

1

4 MHz

4 V_{p-p}

IC401 ③ (PLAY or STOP)

2

4 MHz

5.4 V_{p-p}

IC401 ④ (PLAY or STOP)

3

7.6 μsec

2.5 V_{p-p}

IC301 ④ (PLAY)

4

23 μsec

5 V_{p-p}

IC301 ⑤ (PLAY or STOP)

5

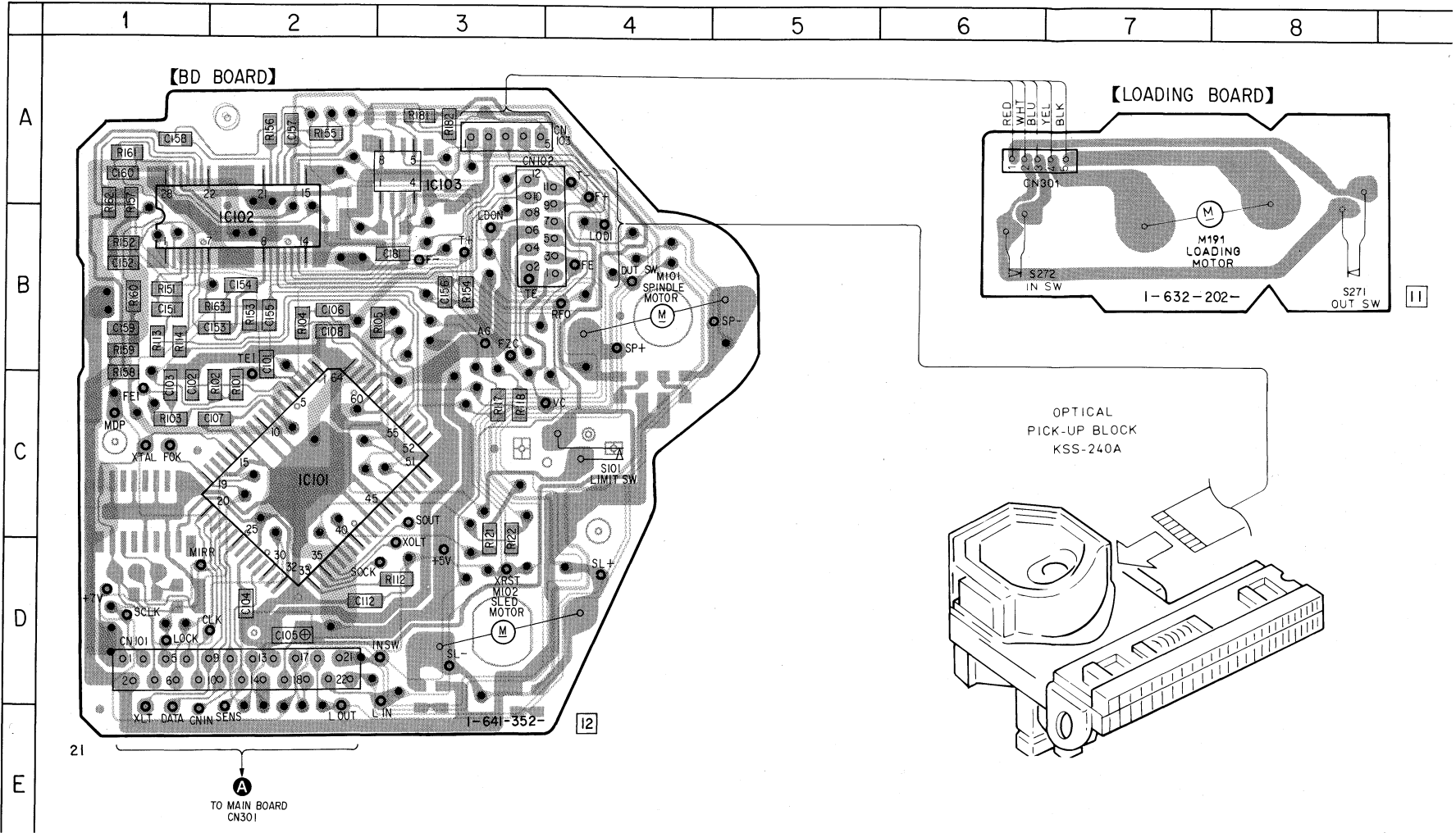
0.48 μsec

5 V_{p-p}

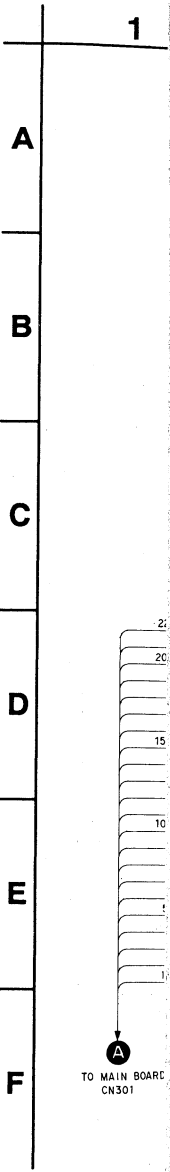
IC301 ⑥ (PLAY or STOP)

- All capacitors in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/4W chip resistors 1/10W or less unless otherwise noted.
- $\triangle$: internal component.
-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages are DC between measurement points and ground under no-signal (STOP) conditions.
- no mark : STOP
- Voltages are taken with a VOM (input impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path
 : CD

4-6. PRINTED WIRING BOARDS — MD BLOCK —

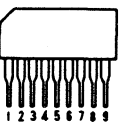


4-7. SCH
• "IC Block"

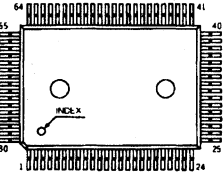


4-8. SEMICONDUCTOR LEAD LAYOUTS

BA6208
RC4556S

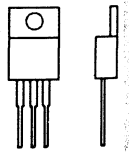


CXD2500AQ

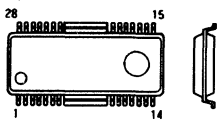


MARKING SIDE VIEW

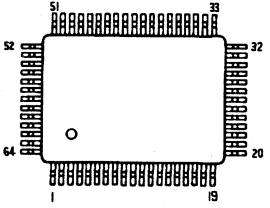
M5F780



BA6297FP



CXD2501Q



TOP VIEW

M52931



Note:

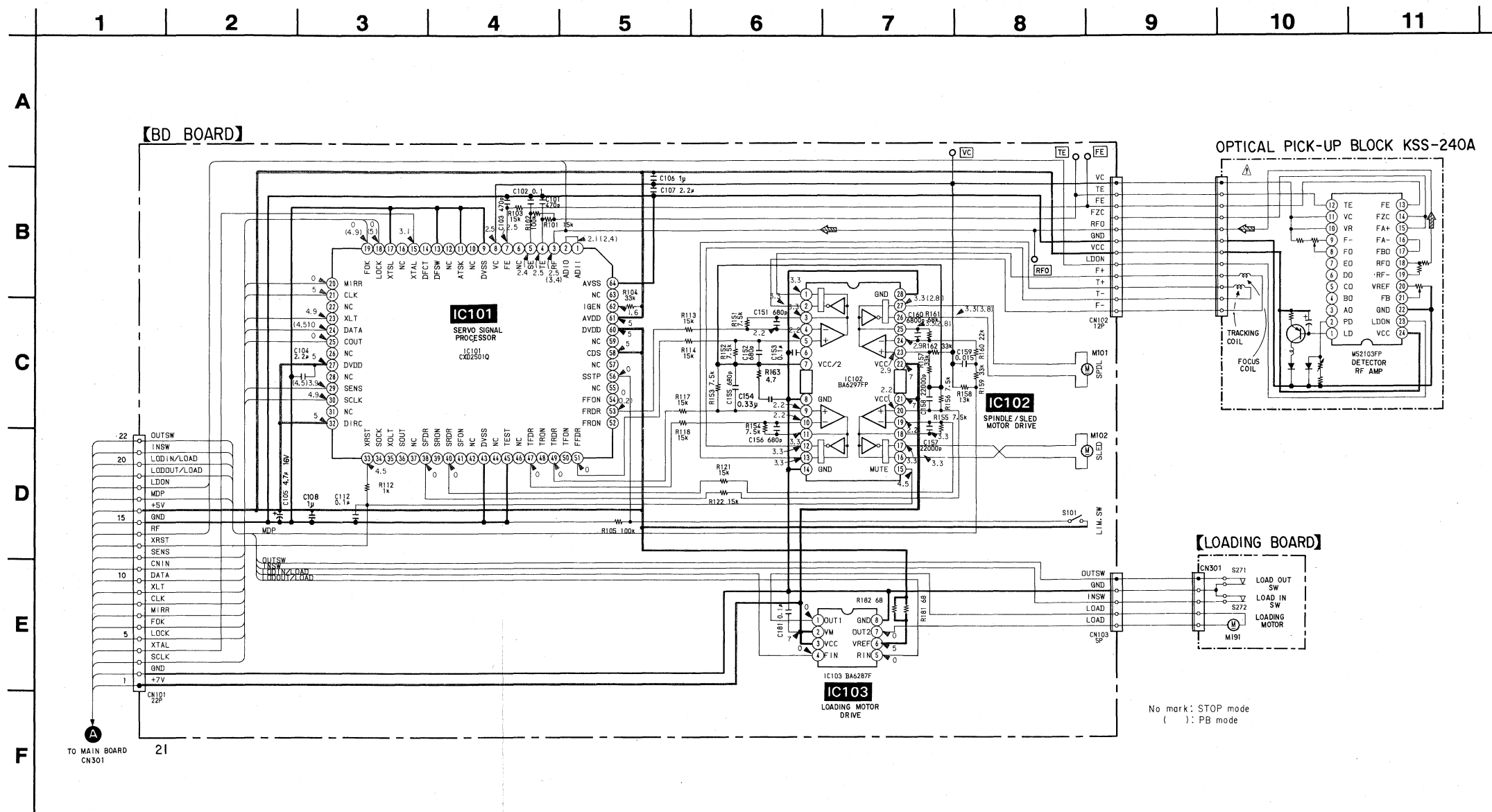
- — : indicated a lead wire mounted on the component side.
- ■ : parts mouted on the conductor side.
- ● : Through hole.
- ■ : Pattern from the side which enables seeing.
- ■ : Pattern of the rear side.

• SEMICONDUCTORS LOCATION

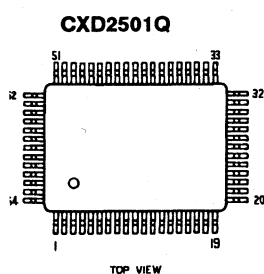
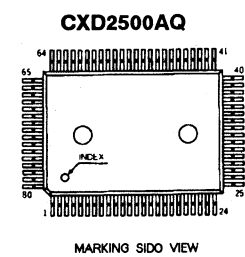
Ref. No.	Location
IC101	C-2
IC102	B-2
IC103	A-3

4-7. SCHEMATIC DIAGRAMS — MD BLOCK —

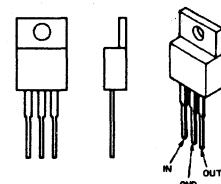
● "IC Block Diagrams" is inserted on page 25 to page 26.



AD LAYOUTS



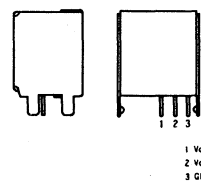
M5F7807



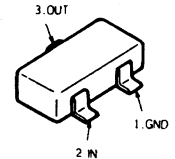
M5293L



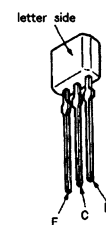
GP1U52XB



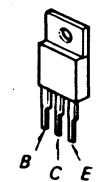
DTA144ES
DTC144ES



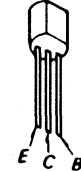
2SA1175-HFE



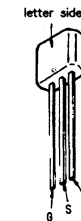
2SB1094-LK



2SC1815-Y
2SC2878-AB



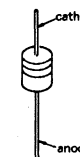
2SC3623A-LK



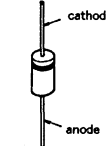
2SD774-34



RD5.6ES-B2
RD7.5ES-B2
WG713A
11ES2



1N4148M

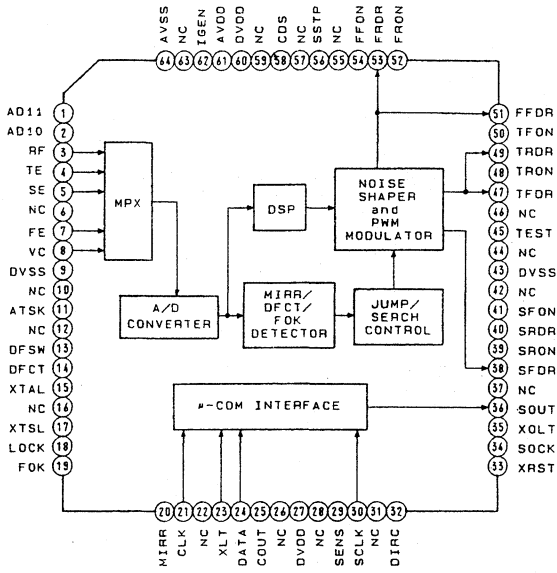


BR4361F

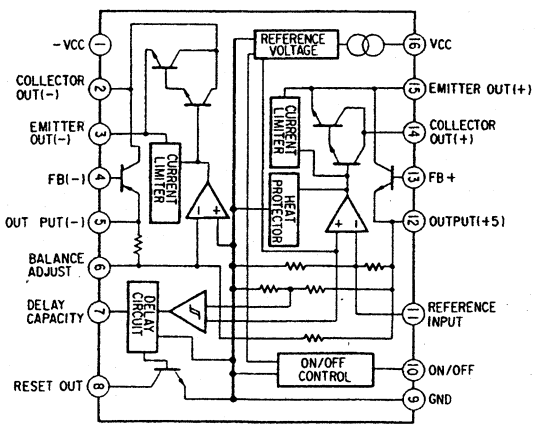


4-9. IC BLOCK DIAGRAMS

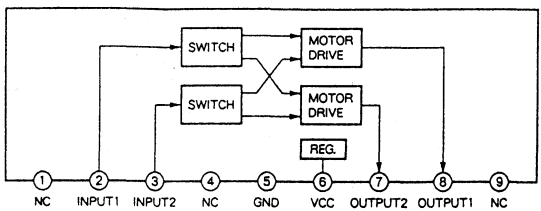
IC101 CXD2501Q



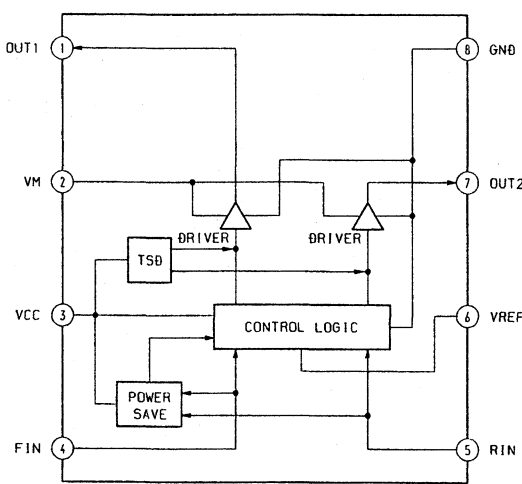
IC202 M5290P-16



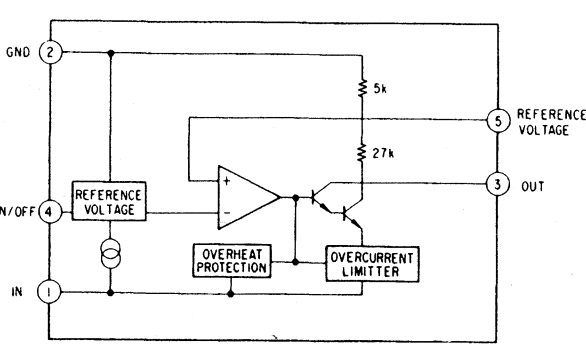
IC471 BA6208



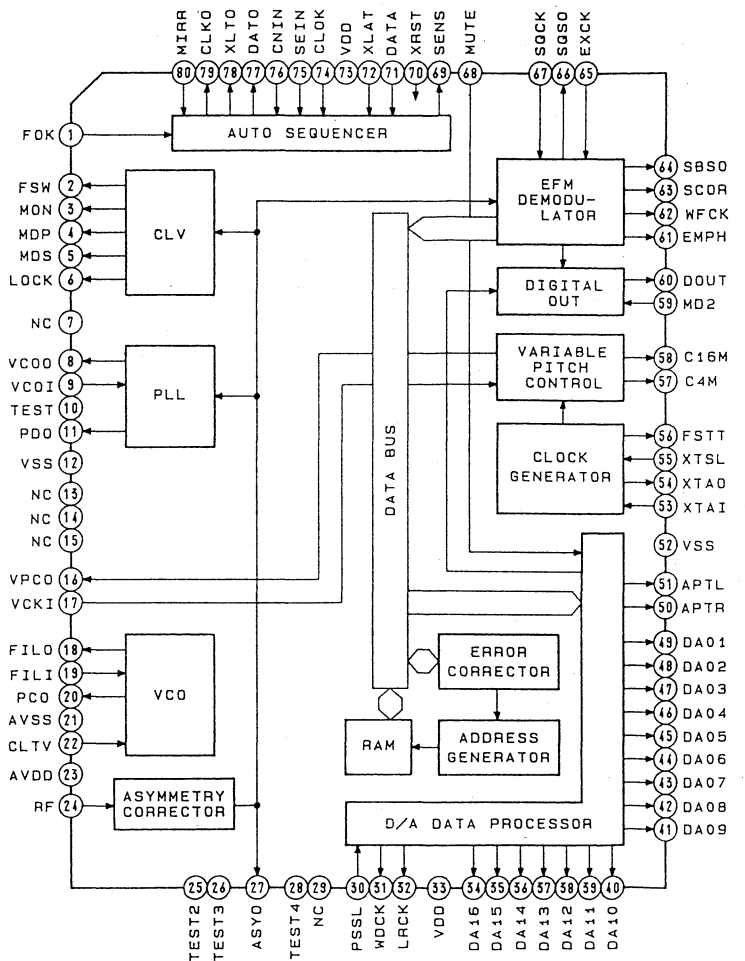
IC103 BA6287F



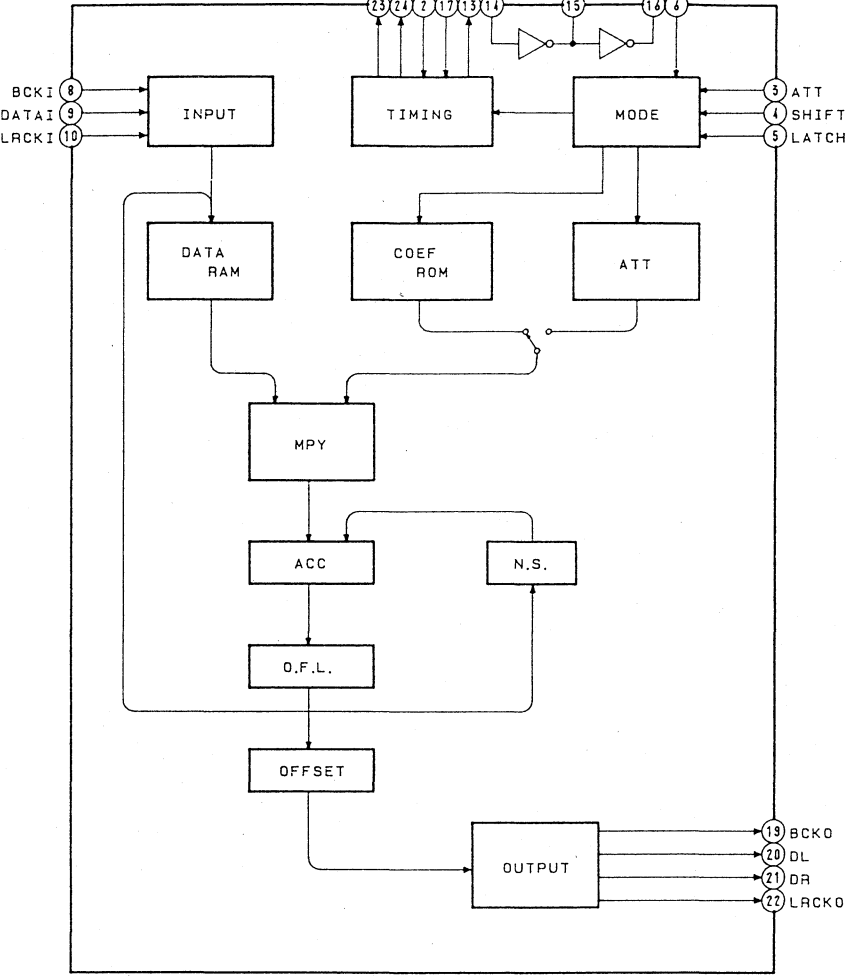
IC201 M5293L



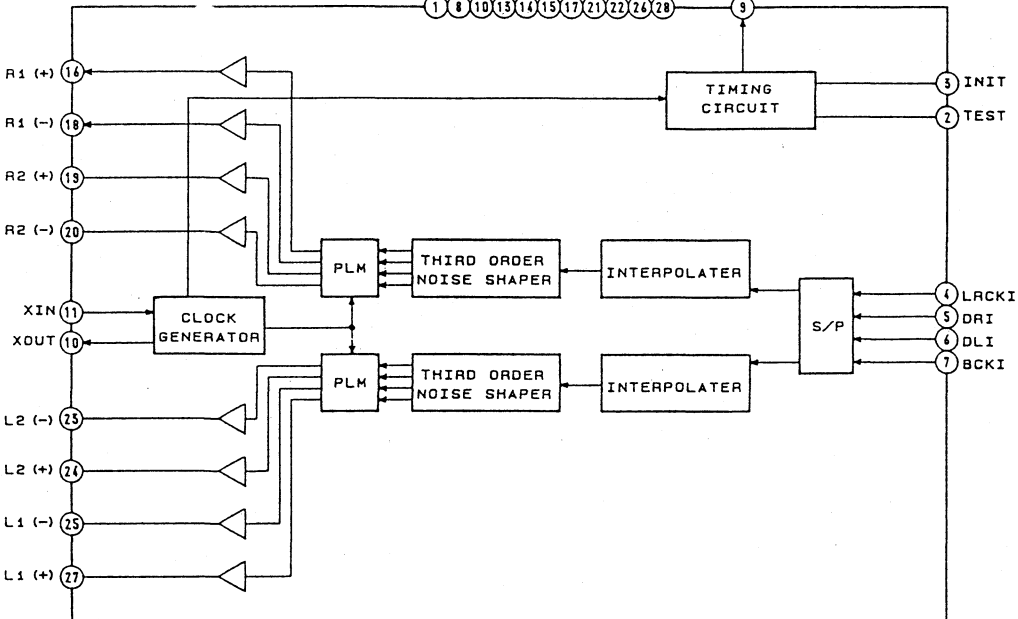
IC301 CXD2500AQ



IC302 CXD2560M



IC303 CXD2561AM



SECTION 5 EXPLODED VIEWS

Note:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) ... (RED)

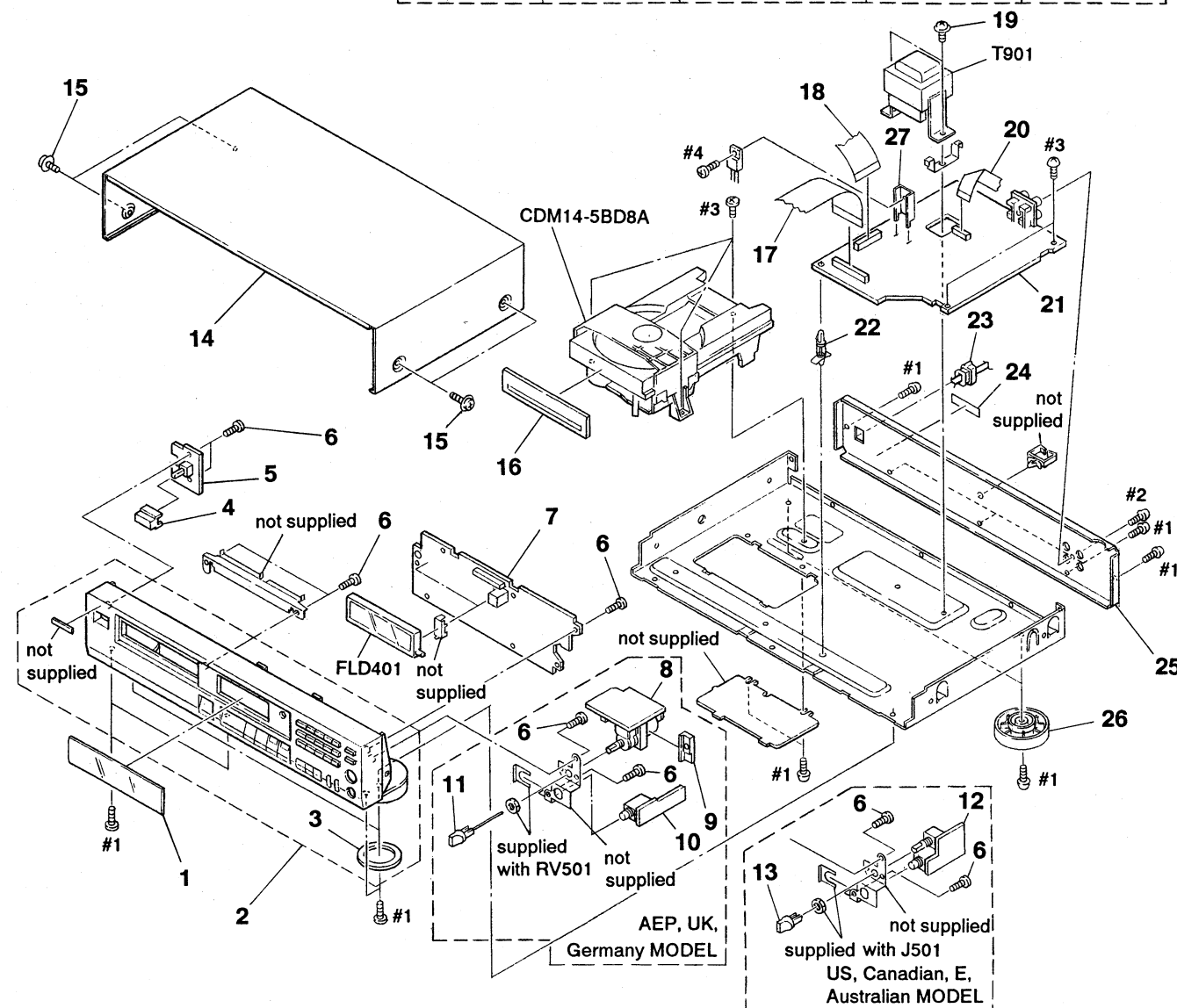
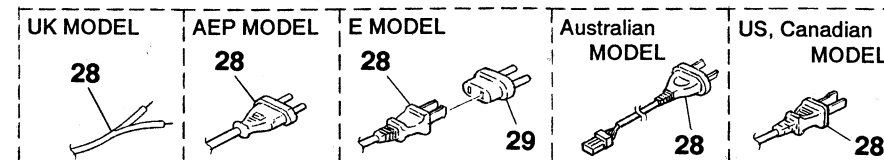
↑ ↑
Parts color Cabinet's color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.
- G: Germany MODEL

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

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

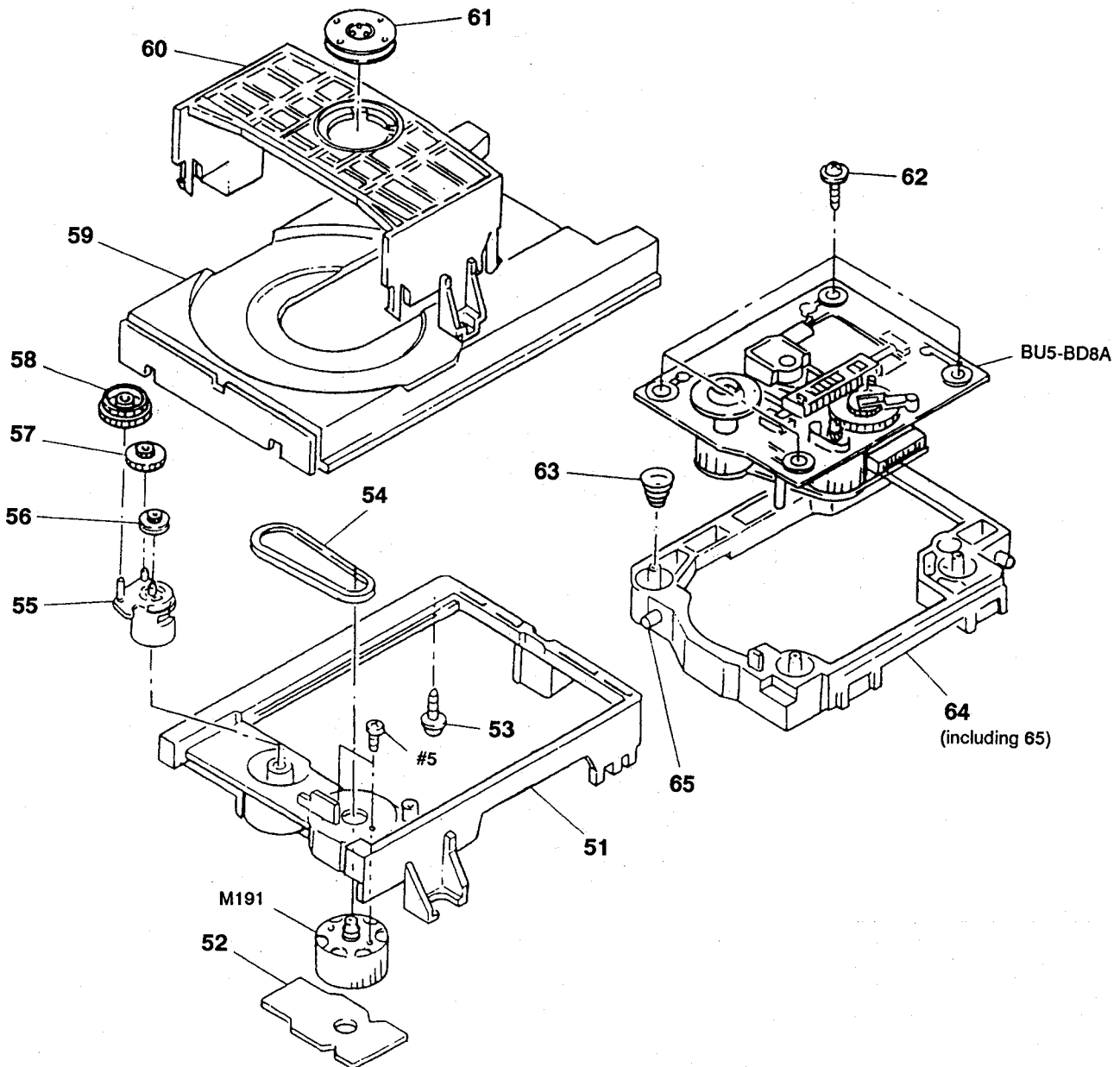
5-1. CABINET SECTION



Ref.No	Part No.	Description	Remark
1	4-947-030-01	PLATE, INDICATION	
2	X-4941-873-3	PANEL ASSY, FRONT (MADE IN FRANCE)	
2	X-4942-176-2	PANEL ASSY, FRONT (E)	
2	X-4942-195-2	PANEL ASSY, FRONT (US, Canadian, Australian)	
2	X-4942-196-2	PANEL ASSY, FRONT (MADE IN JAPAN:AEP)	
3	4-923-836-11	CUSHION (EXCEPT E)	
* 3	4-925-389-01	CUSHION (E)	
4	4-947-034-03	BUTTON (POWER)	
* 5	1-642-112-11	POWER SW BOARD	
6	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
* 7	A-4617-974-A	DISPLAY BOARD, COMPLETE (US, Canadian, E, Australian)	
* 7	A-4649-179-A	DISPLAY BOARD, COMPLETE (MADE IN JAPAN:AEP)	
* 7	A-4617-988-A	DISPLAY BOARD, COMPLETE (MADE IN FRANCE)	
* 8	1-642-113-11	MOTOR VOL BOARD (AEP, G, UK)	
* 9	4-922-980-01	HOLDER (LED) (AEP, G, UK)	
* 10	1-642-114-11	HP BOARD (AEP, G, UK)	
11	A-4604-897-A	KNOB (VOL) ASSY (MADE IN JAPAN:AEP)	
11	A-4604-928-A	KNOB (VOL) ASSY (MADE IN FRANCE)	
* 12	1-642-111-11	VOL BOARD (US, Canadian, E, Australian)	
13	4-950-189-01	KNOB (A) (VOL) (US, Canadian, E, Australian)	
14	4-929-035-31	CASE	
15	3-363-099-01	SCREW (CASE +3X8 TP2) (MADE IN FRANCE)	
15	3-704-366-01	SCREW (CASE) (M3X8) (MADE IN JAPAN)	
16	4-947-031-01	PANEL, LOADING (MADE IN JAPAN)	
16	4-947-031-11	PANEL, LOADING (MADE IN FRANCE)	
17	1-690-584-11	WIRE, FLAT TYPE (29 CORE) (MADE IN JAPAN)	
17	1-690-584-31	WIRE, FLAT TYPE (29 CORE) (MADE IN FRANCE)	
18	1-575-002-11	WIRE, FLAT TYPE (22 CORE)	
19	4-886-821-11	SCREW, S TIGHT, +PTWH 3X6	
20	1-690-392-11	WIRE, FLAT TYPE (13 CORE) (AEP, G, UK)	

Ref.No	Part No.	Description	Remark
* 21	A-4617-976-A	MAIN BOARD, COMPLETE (US, Canadian, Australian)	
* 21	A-4617-990-A	MAIN BOARD, COMPLETE (MADE IN FRANCE)	
* 21	A-4649-172-A	MAIN BOARD, COMPLETE (E)	
* 21	A-4649-182-A	MAIN BOARD, COMPLETE (MADE IN JAPAN:AEP)	
* 22	4-924-098-01	HOLDER, PC BOARD	
* 23	3-703-244-00	BUSHING (2104), CORD (MADE IN JAPAN:US, Canadian, AEP, Australian)	
* 23	3-703-571-11	BUSHING (S) (4516), CORD (E)	
23	4-946-787-01	BUSHING, CORD (MADE IN FRANCE)	
* 24	4-941-548-01	LABEL, CLASS 1 (EXCEPT US, Canadian, Australian)	
* 25	4-947-033-12	PANEL, BACK (MADE IN JAPAN:AEP)	
* 25	4-947-033-32	PANEL, BACK (E)	
* 25	4-947-033-42	PANEL, BACK (MADE IN FRANCE)	
* 25	4-947-033-52	PANEL, BACK (US)	
* 25	4-947-033-61	PANEL, BACK (Canadian)	
* 25	4-947-033-22	PANEL, BACK (Australian)	
26	4-943-148-32	FOOT (F58175SW) (US, Canadian, Australian)	
27	4-902-345-01	HEAT SINK	
28	1-574-127-31	CORD, POWER (MADE IN FRANCE:AEP, G)	
Δ 28	1-574-390-31	CORD, POWER (UK)	
Δ 28	1-575-651-21	CORD, POWER (MADE IN JAPAN:AEP)	
Δ 28	1-575-653-21	CORD, POWER (E)	
Δ 28	1-590-836-11	CORD, POWER (US, Canadian)	
Δ 28	1-574-358-31	CORD, POWER (WITH CONNECTOR) (Australian)	
Δ 29	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
Δ T901	1-449-921-11	TRANSFORMER, POWER (US, Canadian)	
Δ T901	1-449-922-11	TRANSFORMER, POWER (MADE IN JAPAN:AEP, Australian)	
Δ T901	1-449-923-11	TRANSFORMER, POWER (E)	
Δ T901	1-449-925-11	TRANSFORMER, POWER (MADE IN FRANCE)	
FLD401	1-519-681-11	INDICATOR TUBE, FLUORESCENT	

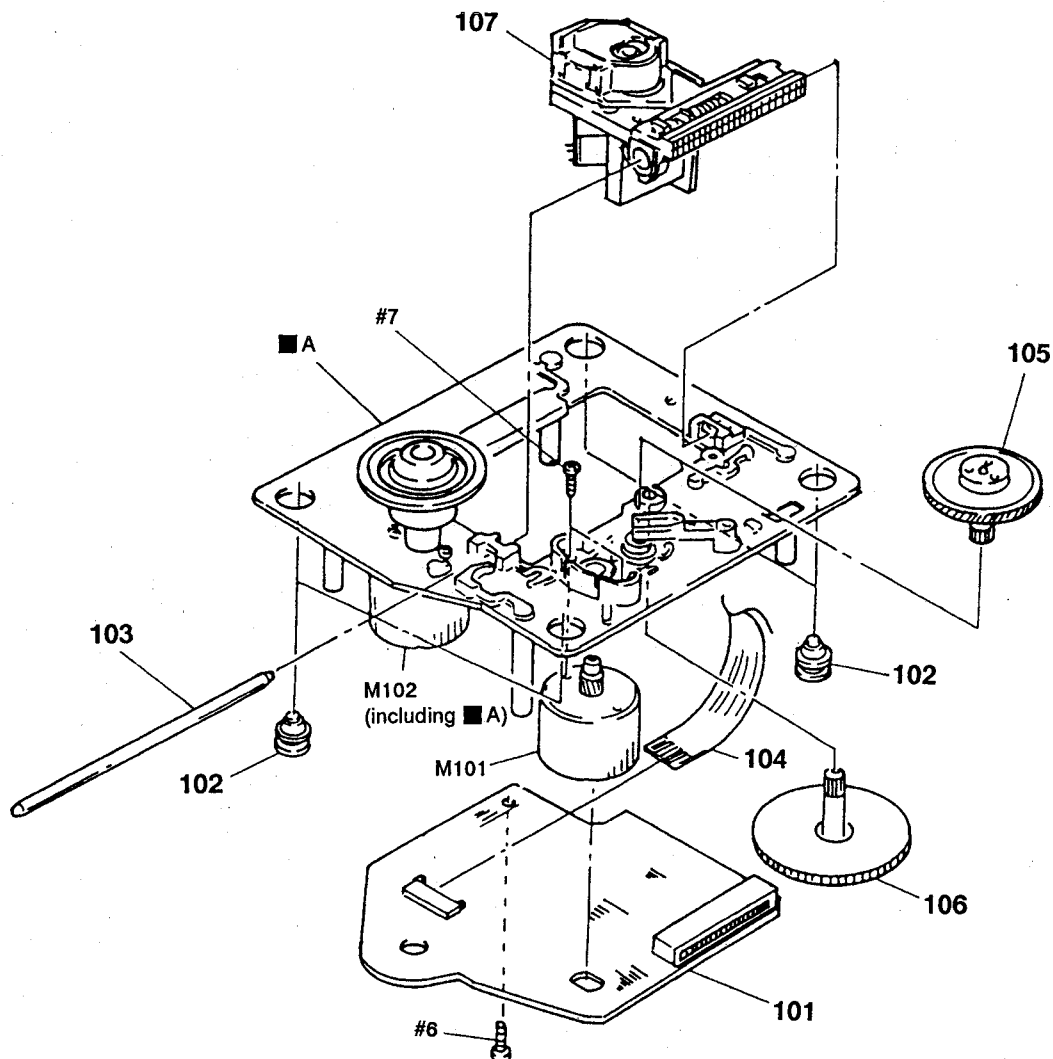
5-2. MD SECTION (CDM14-5BD8A)



Ref.No	Part No.	Description	Remark
51	4-933-111-04	CHASSIS (MD) (MADE IN JAPAN)	
51	4-933-111-11	CHASSIS (MD) (MADE IN FRANCE)	
* 52	1-632-202-11	LOADING BOARD	
* 53	4-917-583-21	BRACKET, YOKE	
54	4-927-649-01	BELT	
55	4-933-109-02	CAM	
56	4-927-651-01	PULLEY (S)	
57	4-927-628-02	GEAR (C)	
58	4-933-107-02	GEAR (PL)	
59	4-933-112-02	TABLE, DISK (MADE IN JAPAN)	
59	4-933-112-11	TABLE, DISK (MADE IN FRANCE)	

Ref.No	Part No.	Description	Remark
60	4-933-110-02	HOLDER (MG) (MADE IN JAPAN)	
60	4-933-110-11	HOLDER (MG) (MADE IN FRANCE)	
* 61	1-452-538-11	MAGNET	
62	4-933-134-01	SCREW (+PTPWH M2. 6X6)	
63	4-917-541-01	SPRING (B) (MADE IN FRANCE)	
63	4-948-503-01	SPRING (BU), COMPRESSION	(MADE IN JAPAN)
64	4-933-129-04	HOLDER (BU) (MADE IN JAPAN)	
64	4-933-129-12	HOLDER (BU) (MADE IN FRANCE)	
65	4-933-108-01	SHAFT (CAM)	
M191	A-4604-363-A	MOTOR (L) ASSY (LOADING)	

5-3. PIC-UP BLOCK (BU5BD8A)



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.

<u>Ref.No</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref.No</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
* 101	A-4617-977-A	BD BOARD, COMPLETE (MADE IN JAPAN)		106	4-917-564-03	GEAR (P), FLATNESS	
* 101	A-4617-986-A	BD BOARD, COMPLETE (MADE IN FRANCE)		△107	8-848-144-01	DEVICE, OPTICAL KSS-240A	(MADE IN JAPAN)
102	4-933-126-01	INSULATOR (A)		△107	8-848-144-51	DEVICE, OPTICAL KSS-240A	(MADE IN FRANCE)
103	4-917-565-01	SHAFT, SLED					
104	1-575-001-11	WIRE, FLAT TYPE (12 CORE)		M101	X-4917-504-1	MOTOR ASSY (SLED)	
105	4-917-567-02	GEAR (M)		M102	X-4917-523-3	MOTOR ASSY (SPINDLE)	

SECTION 6

ELECTRICAL PARTS LIST

BD

DISPLAY

Note:

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

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

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

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- G: Germany 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: μ , for example:
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...
- CAPACITORS
uF: μ F
- COILS
uH: μ H
- Hardware (# mark) list is given in the last of this parts list.

Ref.No	Part No.	Description	Remark
*	A-4617-977-A	BD BOARD, COMPLETE (MADE IN JAPAN)	
*	A-4617-986-A	BD BOARD, COMPLETE (MADE IN FRANCE)	

< CAPACITOR >			
C101	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C102	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C103	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C104	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C105	1-135-155-21	TANTALUM CHIP 4.7uF	10% 16V
C106	1-164-346-11	CERAMIC CHIP 1uF	16V
C107	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C108	1-164-346-11	CERAMIC CHIP 1uF	16V
C112	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C151	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C152	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C153	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C154	1-164-336-11	CERAMIC CHIP 0.33uF	25V
C155	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C156	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C157	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V
C158	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V
C159	1-163-023-00	CERAMIC CHIP 0.015uF	5% 50V
C160	1-163-019-00	CERAMIC CHIP 0.0068uF	10% 50V
C181	1-163-038-00	CERAMIC CHIP 0.1uF	25V
< CONNECTOR >			
CN101	1-568-796-11	SOCKET, CONNECTOR 22P	
CN102	1-568-795-11	SOCKET, CONNECTOR 12P	
CN103	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P	
< IC >			
IC101	8-752-344-48	IC CXD2501Q	
IC102	8-759-040-80	IC BA6297FP-T1	
IC103	8-759-040-83	IC BA6287F-T1	
< RESISTOR >			
R101	1-216-077-00	METAL CHIP 15K 5%	1/10W
R102	1-216-097-00	METAL CHIP 100K 5%	1/10W
R103	1-216-077-00	METAL CHIP 15K 5%	1/10W
R104	1-216-085-00	METAL CHIP 33K 5%	1/10W
R105	1-216-097-00	METAL CHIP 100K 5%	1/10W
R112	1-216-049-00	METAL CHIP 1K 5%	1/10W
R113	1-216-077-00	METAL CHIP 15K 5%	1/10W

Ref.No	Part No.	Description	Remark
R114	1-216-077-00	METAL CHIP 15K 5%	1/10W
R117	1-216-077-00	METAL CHIP 15K 5%	1/10W
R118	1-216-077-00	METAL CHIP 15K 5%	1/10W
R121	1-216-077-00	METAL CHIP 15K 5%	1/10W
R122	1-216-077-00	METAL CHIP 15K 5%	1/10W
R151	1-216-070-00	METAL CHIP 7.5K 5%	1/10W
R152	1-216-070-00	METAL CHIP 7.5K 5%	1/10W
R153	1-216-070-00	METAL CHIP 7.5K 5%	1/10W
R154	1-216-070-00	METAL CHIP 7.5K 5%	1/10W
R155	1-216-070-00	METAL CHIP 7.5K 5%	1/10W
R156	1-216-070-00	METAL CHIP 7.5K 5%	1/10W
R157	1-216-085-00	METAL CHIP 33K 5%	1/10W
R158	1-216-076-00	METAL CHIP 13K 5%	1/10W
R159	1-216-085-00	METAL CHIP 33K 5%	1/10W
R160	1-216-081-00	METAL CHIP 22K 5%	1/10W
R161	1-216-093-00	METAL CHIP 68K 5%	1/10W
R162	1-216-085-00	METAL CHIP 33K 5%	1/10W
R163	1-216-308-00	METAL CHIP 4.7 5%	1/10W
R181	1-216-021-00	METAL CHIP 68 5%	1/10W
R182	1-216-021-00	METAL CHIP 68 5%	1/10W
< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	

*	A-4617-974-A	DISPLAY BOARD, COMPLETE (US, Canadian, E, Australian)	
*	A-4649-179-A	DISPLAY BOARD, COMPLETE (MADE IN JAPAN:AEP)	
	A-4617-988-A	DISPLAY BOARD, COMPLETE (MADE IN FRANCE)	

< CAPACITOR >			
C401	1-164-159-11	CERAMIC 0.1uF	50V
C402	1-164-159-11	CERAMIC 0.1uF	50V
C403	1-164-159-11	CERAMIC 0.1uF	50V
< CONNECTOR >			
* CN401	1-568-844-11	SOCKET, CONNECTOR 29P	
< DIODE >			
D401	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
D401	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	

DISPLAY

LOADING

Ref.No	Part No.	Description	Remark
D402	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
D402	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	
D403	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
D403	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	
D404	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
D404	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	
D405	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
D405	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	
D406	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
D406	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	
D407	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
D407	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	
D408	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
D408	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	
D409	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
D409	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	
D410	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
D410	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	
D411	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
D411	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	
D412	8-719-121-24	DIODE RD9.1ES-L (MADE IN JAPAN)	
D412	8-719-921-69	DIODE MTZJ-T-77-9.1 (MADE IN FRANCE)	

< FLUORESCENT INDICATOR >

FLD401 1-519-681-11 INDICATOR TUBE, FLUORESCENT

< IC >

IC401 8-759-061-40 IC uPD75216ACW-C73
 IC402 8-749-920-83 IC GP1U52XB

< RESISTOR >

R401	1-249-435-11	CARBON	33K	5%	1/4W
R402	1-249-435-11	CARBON	33K	5%	1/4W
R403	1-249-435-11	CARBON	33K	5%	1/4W
R404	1-249-435-11	CARBON	33K	5%	1/4W
R405	1-249-435-11	CARBON	33K	5%	1/4W
R406	1-249-425-11	CARBON	4.7K	5%	1/4W
R407	1-249-425-11	CARBON	4.7K	5%	1/4W
R408	1-249-439-11	CARBON	68K	5%	1/4W

< SWITCH >

S401	1-554-303-21	SWITCH, TACTILE (1)
S402	1-554-303-21	SWITCH, TACTILE (2)
S403	1-554-303-21	SWITCH, TACTILE (3)
S404	1-554-303-21	SWITCH, TACTILE (4)
S405	1-554-303-21	SWITCH, TACTILE (5)
S406	1-554-303-21	SWITCH, TACTILE (6)
S407	1-554-303-21	SWITCH, TACTILE (7)
S408	1-554-303-21	SWITCH, TACTILE (8)
S409	1-554-303-21	SWITCH, TACTILE (9)

Ref.No	Part No.	Description	Remark
S410	1-554-303-21	SWITCH, TACTILE (10)	
S411	1-554-303-21	SWITCH, TACTILE (11)	
S412	1-554-303-21	SWITCH, TACTILE (12)	
S413	1-554-303-21	SWITCH, TACTILE (CHECK)	
S414	1-554-303-21	SWITCH, TACTILE (CLEAR)	
S415	1-554-303-21	SWITCH, TACTILE (>12)	
S416	1-554-303-21	SWITCH, TACTILE (EDIT/TIME FADE)	
S417	1-554-303-21	SWITCH, TACTILE (TIME SET)	
S418	1-554-303-21	SWITCH, TACTILE (CONTINUE)	
S419	1-554-303-21	SWITCH, TACTILE (SHUFFLE)	
S420	1-554-303-21	SWITCH, TACTILE (PROGRAM)	
S421	1-554-303-21	SWITCH, TACTILE (AUTO SPACE/AUTO CUE)	
S422	1-554-303-21	SWITCH, TACTILE (TIME)	
S423	1-554-303-21	SWITCH, TACTILE (REPEAT)	
S424	1-554-303-21	SWITCH, TACTILE (FADER)	
S425	1-554-303-21	SWITCH, TACTILE (MUSIC SCAN)	
S426	1-554-303-21	SWITCH, TACTILE (PEAK SEARCH)	
S427	1-554-303-21	SWITCH, TACTILE (▲ OPEN/CLOSE)	
S428	1-554-303-21	SWITCH, TACTILE (>)	
S429	1-554-303-21	SWITCH, TACTILE (■)	
S430	1-554-303-21	SWITCH, TACTILE (■)	
S431	1-554-303-21	SWITCH, TACTILE (◀)	
S432	1-554-303-21	SWITCH, TACTILE (▶)	
S433	1-554-303-21	SWITCH, TACTILE (◀)	
S434	1-554-303-21	SWITCH, TACTILE (▶)	

< VIBRATOR >

X401 1-577-082-11 VIBRATOR, CERAMIC
 (MADE IN JAPAN:US,Canadian,E,Australian,MADE IN FRANCE)
 X401 1-577-358-21 VIBRATOR, CERAMIC (4MHZ)
 (MADE IN JAPAN:AEP)

* 1-632-202-11 LOADING BOARD

< CONNECTOR >

* CN301 1-564-707-11 PIN, CONNECTOR (SMALL TYPE) 5P

< SWITCH >

S271 1-572-086-11 SWITCH, LEAF (LOAD OUT)
 S272 1-572-086-11 SWITCH, LEAF (LOAD IN)

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

MAIN

Ref.No	Part No.	Description	Remark
*	A-4617-976-A	MAIN BOARD, COMPLETE (US, Canadian, Australian)	
*	A-4649-182-A	MAIN BOARD, COMPLETE (MADE IN JAPAN:AEP)	
*	A-4649-172-A	MAIN BOARD, COMPLETE (E)	
*	A-4617-990-A	MAIN BOARD, COMPLETE (MADE IN FRANCE)	

	1-571-722-11	SWITCH, VOLTAGE SELECTION (E)	
	4-902-345-01	HEAT SINK	
	7-682-547-09	SCREW +B 3X6	
< CAPACITOR >			
C201	1-124-572-11	ELECT	100uF 20% 63V
C202	1-126-059-11	ELECT	10uF 20% 50V (MADE IN JAPAN)
C202	1-124-907-11	ELECT	10uF 20% 50V (MADE IN FRANCE)
C203	1-124-360-00	ELECT	1000uF 20% 16V
C204	1-126-937-11	ELECT	4700uF 20% 16V (MADE IN JAPAN)
C204	1-124-898-11	ELECT	4700uF 20% 16V (MADE IN FRANCE)
C205	1-126-163-11	ELECT	4.7uF 20% 50V (MADE IN JAPAN)
C205	1-124-927-11	ELECT	4.7uF 20% 100V (MADE IN FRANCE)
C206	1-126-059-11	ELECT	10uF 20% 50V (MADE IN JAPAN)
C206	1-124-907-11	ELECT	10uF 20% 50V (MADE IN FRANCE)
C207	1-126-059-11	ELECT	10uF 20% 50V (MADE IN JAPAN)
C207	1-124-907-11	ELECT	10uF 20% 50V (MADE IN FRANCE)
C208	1-124-997-11	ELECT	470uF 20% 10V (MADE IN JAPAN)
C208	1-124-472-11	ELECT	470uF 20% 10V (MADE IN FRANCE)
C209	1-124-997-11	ELECT	470uF 20% 10V (MADE IN JAPAN)
C209	1-124-472-11	ELECT	470uF 20% 10V (MADE IN FRANCE)
C211	1-124-997-11	ELECT	470uF 20% 10V (MADE IN JAPAN)
C211	1-124-472-11	ELECT	470uF 20% 10V (MADE IN FRANCE)
C212	1-124-997-11	ELECT	470uF 20% 10V (MADE IN JAPAN)
C212	1-124-472-11	ELECT	470uF 20% 10V (MADE IN FRANCE)
C213	1-130-487-00	MYLAR	0.022uF 5% 50V
C214	1-126-023-11	ELECT	100uF 20% 16V (MADE IN JAPAN)

Ref.No	Part No.	Description	Remark
C214	1-126-101-11	ELECT	100uF 20% 16V (MADE IN FRANCE)
C221	1-164-159-11	CERAMIC	0.1uF 50V
C301	1-126-022-11	ELECT	47uF 20% 16V (MADE IN JAPAN)
C301	1-124-477-11	ELECT	47uF 20% 25V (MADE IN FRANCE)
C302	1-126-301-11	ELECT	1uF 20% 50V (MADE IN JAPAN)
C302	1-124-903-11	ELECT	1uF 20% 50V (MADE IN FRANCE)
C303	1-164-159-11	CERAMIC	0.1uF 50V
C304	1-164-159-11	CERAMIC	0.1uF 50V
C305	1-126-022-11	ELECT	47uF 20% 16V (MADE IN JAPAN)
C305	1-124-477-11	ELECT	47uF 20% 25V (MADE IN FRANCE)
C306	1-164-159-11	CERAMIC	0.1uF 50V
C307	1-164-159-11	CERAMIC	0.1uF 50V
C308	1-164-159-11	CERAMIC	0.1uF 50V
C309	1-164-159-11	CERAMIC	0.1uF 50V
C311	1-130-491-00	MYLAR	0.047uF 5% 50V
C312	1-161-374-11	CERAMIC	0.0015uF 20% 50V
C313	1-161-494-00	CERAMIC	0.022uF 25V
C314	1-162-306-11	CERAMIC	0.01uF 20% 16V
C315	1-126-300-11	ELECT	0.47uF 20% 50V (MADE IN JAPAN)
C315	1-124-902-00	ELECT	0.47uF 20% 50V (MADE IN FRANCE)
C316	1-161-494-00	CERAMIC	0.022uF 25V
C317	1-164-159-11	CERAMIC	0.1uF 50V
C319	1-162-282-31	CERAMIC	100PF 10% 50V
C320	1-130-483-00	MYLAR	0.01uF 5% 50V
C321	1-162-208-31	CERAMIC	24PF 5% 50V
C322	1-126-022-11	ELECT	47uF 20% 16V (MADE IN JAPAN)
C322	1-124-477-11	ELECT	47uF 20% 25V (MADE IN FRANCE)
C323	1-164-159-11	CERAMIC	0.1uF 50V
C324	1-164-159-11	CERAMIC	0.1uF 50V
C325	1-162-205-31	CERAMIC	18PF 5% 50V
C326	1-162-205-31	CERAMIC	18PF 5% 50V
C327	1-161-494-00	CERAMIC	0.022uF 25V
C328	1-126-059-11	ELECT	10uF 20% 50V (MADE IN JAPAN)
C328	1-124-907-11	ELECT	10uF 20% 50V (MADE IN FRANCE)
C329	1-126-022-11	ELECT	47uF 20% 16V (MADE IN JAPAN)
C329	1-124-477-11	ELECT	47uF 20% 25V (MADE IN FRANCE)
C331	1-161-494-00	CERAMIC	0.022uF 25V

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

MAIN

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
C332	1-164-159-11	CERAMIC	0.1uF 50V	* CN381	1-568-832-11	SOCKET, CONNECTOR 13P (AEP,G,UK)	
C333	1-162-294-31	CERAMIC	0.001uF 10% 50V	* CN382	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P (US, Canadian, E, Australian)	
C351	1-126-022-11	ELECT	47uF 20% 16V (MADE IN JAPAN)	< DIODE >			
C351	1-124-477-11	ELECT	47uF 20% 25V (MADE IN FRANCE)	D201	8-719-200-82	DIODE 11ES2	
C352	1-164-159-11	CERAMIC	0.1uF 50V	D202	8-719-110-03	DIODE RD7.5ES-B2 (MADE IN JAPAN)	
C353	1-126-022-11	ELECT	47uF 20% 16V (MADE IN JAPAN)	D202	8-719-923-49	DIODE MTZJ-T-77-7.5 (MADE IN FRANCE)	
				D203	8-719-200-82	DIODE 11ES2	
C353	1-124-477-11	ELECT	47uF 20% 25V (MADE IN FRANCE)	D204	8-719-200-82	DIODE 11ES2	
C354	1-161-494-00	CERAMIC	0.022uF 25V	D205	8-719-200-82	DIODE 11ES2	
C355	1-126-022-11	ELECT	47uF 20% 16V (MADE IN JAPAN)	D206	8-719-200-82	DIODE 11ES2	
C355	1-124-477-11	ELECT	47uF 20% 25V (MADE IN FRANCE)	D208	8-719-109-89	DIODE RD5.6ES-B2	
C356	1-164-159-11	CERAMIC	0.1uF 50V	D209	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
C357	1-130-495-00	MYLAR	0.1uF 5% 50V	D209	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	
C358	1-130-495-00	MYLAR	0.1uF 5% 50V	D328	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
C361	1-162-289-31	CERAMIC	390PF 10% 50V	D328	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	
C362	1-162-289-31	CERAMIC	390PF 10% 50V	D344	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)	
C363	1-162-285-31	CERAMIC	180PF 10% 50V	D344	8-719-987-06	DIODE WG713A (MADE IN FRANCE)	
				< IC >			
C364	1-162-285-31	CERAMIC	180PF 10% 50V	IC201	8-759-633-42	IC M5293L	
C365	1-162-285-31	CERAMIC	180PF 10% 50V	IC202	8-759-630-21	IC M5290P-16	
C366	1-162-285-31	CERAMIC	180PF 10% 50V	IC203	8-759-945-58	IC RC4558P	
C367	1-161-494-00	CERAMIC	0.022uF 25V	IC204	8-759-604-86	IC M5F7807	
C368	1-161-494-00	CERAMIC	0.022uF 25V	IC301	8-752-337-26	IC CXD2500AQ	
C371	1-130-479-00	MYLAR	0.0047uF 5% 50V	IC302	8-752-342-65	IC CXD2560M	
C372	1-130-479-00	MYLAR	0.0047uF 5% 50V	IC303	8-752-349-01	IC CXD2561AM	
C373	1-130-472-00	MYLAR	0.0012uF 5% 50V	IC306	8-759-503-91	IC TL082ACP	
C374	1-130-472-00	MYLAR	0.0012uF 5% 50V	IC307	8-759-945-58	IC RC4558P	
C377	1-126-022-11	ELECT	47uF 20% 16V (MADE IN JAPAN)	< JACK >			
C377	1-124-477-11	ELECT	47uF 20% 25V (MADE IN FRANCE)	J381	1-569-442-11	JACK, PIN 2P (LINE OUT) (US, Canadian, E, Australian)	
C378	1-126-022-11	ELECT	47uF 20% 16V (MADE IN JAPAN)	* J381	1-569-443-11	JACK, PIN 4P (LINE OUT) (AEP,G,UK)	
C378	1-124-477-11	ELECT	47uF 20% 25V (MADE IN FRANCE)	< COIL >			
C379	1-130-473-00	MYLAR	0.0015uF 5% 50V	L306	1-408-403-00	INDUCTOR 3.3uH	
C380	1-130-473-00	MYLAR	0.0015uF 5% 50V	L321	1-408-403-00	INDUCTOR 3.3uH	
				L322	1-408-403-00	INDUCTOR 3.3uH (US)	
C392	1-164-159-11	CERAMIC	0.1uF 50V (US)	< TRANSISTOR >			
C395	1-164-159-11	CERAMIC	0.1uF 50V (US)	Q201	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C396	1-164-159-11	CERAMIC	0.1uF 50V (US)	Q202	8-729-140-96	TRANSISTOR 2SD774-34	
< CONNECTOR >				Q203	8-729-141-83	TRANSISTOR 2SB1094-LK	
* CN201	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P		Q204	8-729-900-65	TRANSISTOR DTA144ES	
* CN301	1-568-822-11	SOCKET, CONNECTOR 22P		Q205	8-729-900-89	TRANSISTOR DTC144ES	
* CN302	1-568-844-11	SOCKET, CONNECTOR 29P		Q206	8-729-900-89	TRANSISTOR DTC144ES	
				Q209	8-729-281-52	TRANSISTOR 2SC1815-Y	
				Q341	8-729-900-65	TRANSISTOR DTA144ES	
				Q342	8-729-900-65	TRANSISTOR DTA144ES	

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

MAIN

Ref.No	Part No.	Description	Remark
Q343	8-729-900-65	TRANSISTOR DTA144ES	
Q344	8-729-900-89	TRANSISTOR DTC144ES	
Q371	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q372	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q373	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q374	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q375	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q376	8-729-231-55	TRANSISTOR 2SC2878-AB	

< RESISTOR >

R201	1-249-435-11	CARBON	33K	5%	1/4W
R202	1-249-438-11	CARBON	56K	5%	1/4W
R203	1-249-429-11	CARBON	10K	5%	1/4W
R204	1-249-425-11	CARBON	4.7K	5%	1/4W
R205	1-249-425-11	CARBON	4.7K	5%	1/4W
R208	1-249-423-11	CARBON	3.3K	5%	1/4W
R209	1-249-413-11	CARBON	470	5%	1/4W
R210	1-249-429-11	CARBON	10K	5%	1/4W
R211	1-249-410-11	CARBON	270	5%	1/4W
R213	1-249-417-11	CARBON	1K	5%	1/4W
R214	1-249-417-11	CARBON	1K	5%	1/4W
R301	1-249-417-11	CARBON	1K	5%	1/4W
R302	1-249-417-11	CARBON	1K	5%	1/4W
R303	1-249-421-11	CARBON	2.2K	5%	1/4W
R304	1-249-417-11	CARBON	1K	5%	1/4W
R306	1-249-413-11	CARBON	470	5%	1/4W
R309	1-249-405-11	CARBON	100	5%	1/4W
R311	1-249-423-11	CARBON	3.3K	5%	1/4W
R312	1-249-429-11	CARBON	10K	5%	1/4W
R313	1-249-423-11	CARBON	3.3K	5%	1/4W
R314	1-249-429-11	CARBON	10K	5%	1/4W
R315	1-249-417-11	CARBON	1K	5%	1/4W
R316	1-249-417-11	CARBON	1K	5%	1/4W
R317	1-249-419-11	CARBON	1.5K	5%	1/4W
R318	1-249-441-11	CARBON	100K	5%	1/4W
R319	1-247-903-00	CARBON	1M	5%	1/4W
R320	1-249-417-11	CARBON	1K	5%	1/4W
R321	1-249-417-11	CARBON	1K	5%	1/4W
R322	1-249-417-11	CARBON	1K	5%	1/4W
R323	1-249-417-11	CARBON	1K	5%	1/4W
R324	1-249-417-11	CARBON	1K	5%	1/4W
R325	1-249-417-11	CARBON	1K	5%	1/4W
R326	1-249-417-11	CARBON	1K	5%	1/4W
R327	1-247-903-00	CARBON	1M	5%	1/4W
R328	1-249-429-11	CARBON	10K	5%	1/4W
R331	1-249-429-11	CARBON	10K	5%	1/4W
R332	1-249-429-11	CARBON	10K	5%	1/4W
R333	1-249-429-11	CARBON	10K	5%	1/4W
R334	1-249-429-11	CARBON	10K	5%	1/4W
R343	1-249-441-11	CARBON	100K	5%	1/4W

Ref.No	Part No.	Description	Remark
R344	1-249-441-11	CARBON	100K 5% 1/4W
R345	1-249-425-11	CARBON	4.7K 5% 1/4W
R346	1-249-425-11	CARBON	4.7K 5% 1/4W
R347	1-249-441-11	CARBON	100K 5% 1/4W
R348	1-249-429-11	CARBON	10K 5% 1/4W
R351	1-249-428-11	CARBON	8.2K 5% 1/4W
R352	1-249-428-11	CARBON	8.2K 5% 1/4W
R353	1-249-428-11	CARBON	8.2K 5% 1/4W
R354	1-249-428-11	CARBON	8.2K 5% 1/4W
R355	1-249-428-11	CARBON	8.2K 5% 1/4W
R356	1-249-428-11	CARBON	8.2K 5% 1/4W
R357	1-249-428-11	CARBON	8.2K 5% 1/4W
R358	1-249-428-11	CARBON	8.2K 5% 1/4W
R361	1-249-423-11	CARBON	3.3K 5% 1/4W
R362	1-249-423-11	CARBON	3.3K 5% 1/4W
R363	1-249-423-11	CARBON	3.3K 5% 1/4W
R364	1-249-423-11	CARBON	3.3K 5% 1/4W
R365	1-249-430-11	CARBON	12K 5% 1/4W
R366	1-249-430-11	CARBON	12K 5% 1/4W
R367	1-249-430-11	CARBON	12K 5% 1/4W
R368	1-249-430-11	CARBON	12K 5% 1/4W
R369	1-249-419-11	CARBON	1.5K 5% 1/4W
R370	1-249-419-11	CARBON	1.5K 5% 1/4W
R371	1-249-419-11	CARBON	1.5K 5% 1/4W
R372	1-249-419-11	CARBON	1.5K 5% 1/4W
R373	1-247-887-00	CARBON	220K 5% 1/4W
R374	1-247-887-00	CARBON	220K 5% 1/4W
R375	1-249-409-11	CARBON	220 5% 1/4W
R376	1-249-409-11	CARBON	220 5% 1/4W
R377	1-249-409-11	CARBON	220 5% 1/4W
R378	1-249-409-11	CARBON	220 5% 1/4W
R379	1-249-425-11	CARBON	4.7K 5% 1/4W
R380	1-249-425-11	CARBON	4.7K 5% 1/4W
R381	1-249-425-11	CARBON	4.7K 5% 1/4W
R382	1-249-425-11	CARBON	4.7K 5% 1/4W
R383	1-249-413-11	CARBON	470 5% 1/4W
R384	1-249-413-11	CARBON	470 5% 1/4W
R385	1-249-393-11	CARBON	10 5% 1/4W
R386	1-249-393-11	CARBON	10 5% 1/4W
R389	1-249-413-11	CARBON	470 5% 1/4W (AEP, G, UK)
R390	1-249-413-11	CARBON	470 5% 1/4W (AEP, G, UK)

< SWITCH >

△S201 1-571-722-11 SWITCH, VOLTAGE SELECTION (E)

< VIBRATOR >

X327 1-579-314-11 VIBRATOR, CRYSTAL (22.5MHZ)

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.

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

POWER SW

VOL

HP

MOTOR VOL

Ref.No	Part No.	Description	Remark
*	1-642-112-11	POWER SW BOARD *****	
		< CONNECTOR >	
CN491	1-506-469-11	CONNECTOR 4P, MALE	
		< SWITCH >	
S491	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)	

*	1-642-111-11	VOL BOARD (US, Canadian, E, Australian) *****	
		< CAPACITOR >	
C510	1-124-994-11	ELECT 100uF 20% 10V (US, Canadian, E, Australian)	
C511	1-162-290-31	CERAMIC 470PF 10% 50V (US, Canadian, E, Australian)	
C520	1-124-994-11	ELECT 100uF 20% 10V (US, Canadian, E, Australian)	
C521	1-162-290-31	CERAMIC 470PF 10% 50V (US, Canadian, E, Australian)	
C530	1-164-159-11	CERAMIC 0.1uF 50V (Canadian, E, Australian)	
		< CONNECTOR >	
* CN501	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P (US, Canadian, E, Australian)	
		< IC >	
IC501	8-759-981-89	IC RC4556S (US, Canadian, E, Australian)	
		< JACK >	
J501	1-568-519-41	JACK, LARGE TYPE (US, Canadian, E, Australian)	
		< COIL >	
L511	1-421-972-11	COIL, LINE FILTER (US)	
L521	1-421-972-11	COIL, LINE FILTER (US)	
L531	1-421-972-11	COIL, LINE FILTER (Canadian, E, Australian)	
		< RESISTOR >	
R510	1-249-435-11	CARBON 33K 5% 1/4W (US, Canadian, E, Australian)	
R511	1-249-431-11	CARBON 15K 5% 1/4W (US, Canadian, E, Australian)	
R512	1-249-438-11	CARBON 56K 5% 1/4W (US, Canadian, E, Australian)	
R513	1-249-402-11	CARBON 56 5% 1/4W (US, Canadian, E, Australian)	

Ref.No	Part No.	Description	Remark
R514	1-249-399-11	CARBON 33 5% 1/4W (US, Canadian, E, Australian)	
R515	1-249-432-11	CARBON 18K 5% 1/4W (US, Canadian, E, Australian)	
R520	1-249-435-11	CARBON 33K 5% 1/4W (US, Canadian, E, Australian)	
R521	1-249-431-11	CARBON 15K 5% 1/4W (US, Canadian, E, Australian)	
R522	1-249-438-11	CARBON 56K 5% 1/4W (US, Canadian, E, Australian)	
R523	1-249-402-11	CARBON 56 5% 1/4W (US, Canadian, E, Australian)	
R524	1-249-399-11	CARBON 33 5% 1/4W (US, Canadian, E, Australian)	
R525	1-249-432-11	CARBON 18K 5% 1/4W (US, Canadian, E, Australian)	
		< VARIABLE RESISTOR >	
RV501	1-241-778-11	RES, VAR, CARBON 20K/20K (PHONE LEVEL) (US, Canadian, E, Australian)	

*	1-642-114-11	HP BOARD (AEP, G, UK) *****	
		< CAPACITOR >	
C481	1-162-290-31	CERAMIC 470PF 10% 50V (AEP, G, UK)	
C482	1-162-290-31	CERAMIC 470PF 10% 50V (AEP, G, UK)	
C483	1-164-159-11	CERAMIC 0.1uF 50V (AEP, G, UK)	
		< CONNECTOR >	
CN481	1-506-468-11	CONNECTOR 3P, MALE (AEP, G, UK)	
		< JACK >	
J481	1-568-519-41	JACK, LARGE TYPE (AEP, G, UK)	

*	1-642-113-11	MOTOR VOL BOARD (AEP, G, UK) *****	
*	4-922-980-01	HOLDER (LED) (AEP, G, UK)	
		< CAPACITOR >	
C451	1-124-994-11	ELECT 100uF 20% 10V (MADE IN JAPAN:AEP)	
C451	1-124-443-00	ELECT 100uF 20% 10V (MADE IN FRANCE)	
C452	1-124-994-11	ELECT 100uF 20% 10V (MADE IN JAPAN:AEP)	

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

MOTOR VOL

Ref.No	Part No.	Description	Remark
C452	1-124-443-00	ELECT	100uF 20% 10V (MADE IN FRANCE)
C471	1-124-994-11	ELECT	100uF 20% 10V (MADE IN JAPAN:AEP)
C471	1-124-443-00	ELECT	100uF 20% 10V (MADE IN FRANCE)
C472	1-124-277-11	ELECT	4.7uF 20% 35V (AEP, G, UK)

< CONNECTOR >

- * CN451 1-568-832-11 SOCKET, CONNECTOR 13P (AEP, G, UK)
 * CN472 1-568-941-11 PIN, CONNECTOR 3P (AEP, G, UK)

< DIODE >

D471 8-719-970-49 DIODE BR4361F (AEP, G, UK)

< IC >

IC451 8-759-981-89 IC RC4556S (AEP, G, UK)
 IC471 8-759-962-08 IC BA6208 (AEP, G, UK)

< RESISTOR >

R451	1-249-435-11	CARBON	33K 5%	1/4W (AEP, G, UK)
R452	1-249-435-11	CARBON	33K 5%	1/4W (AEP, G, UK)
R453	1-249-432-11	CARBON	18K 5%	1/4W (AEP, G, UK)
R454	1-249-432-11	CARBON	18K 5%	1/4W (AEP, G, UK)
R455	1-249-431-11	CARBON	15K 5%	1/4W (AEP, G, UK)
R456	1-249-431-11	CARBON	15K 5%	1/4W (AEP, G, UK)
R457	1-249-438-11	CARBON	56K 5%	1/4W (AEP, G, UK)
R458	1-249-438-11	CARBON	56K 5%	1/4W (AEP, G, UK)
R459	1-249-402-11	CARBON	56 5%	1/4W (AEP, G, UK)
R460	1-249-402-11	CARBON	56 5%	1/4W (AEP, G, UK)
R461	1-249-399-11	CARBON	33 5%	1/4W (AEP, G, UK)
R462	1-249-399-11	CARBON	33 5%	1/4W (AEP, G, UK)
R471	1-249-411-11	CARBON	330 5%	1/4W (AEP, G, UK)
R472	1-249-417-11	CARBON	1K 5%	1/4W (AEP, G, UK)
R473	1-249-417-11	CARBON	1K 5%	1/4W (AEP, G, UK)

Ref.No	Part No.	Description	Remark
		< VARIABLE RESISTOR >	

RV451 1-241-343-11 RES, VAR, CARBON 10K/10K
 (LINE OUT, PHONE LEVEL) (AEP, G, UK)

MISCELLANEOUS

17	1-690-584-11	WIRE, FLAT TYPE (29 CORE)	(MADE IN JAPAN)
17	1-690-584-31	WIRE, FLAT TYPE (29 CORE)	(MADE IN FRANCE)
18	1-575-002-11	WIRE, FLAT TYPE (22 CORE)	
20	1-690-392-11	WIRE, FLAT TYPE (13 CORE)	(AEP, G, UK)
△ 28	1-574-127-31	CORD, POWER (MADE IN FRANCE:AEP, G)	
△ 28	1-574-358-31	CORD, POWER (WITH CONNECTOR)	(Australian)
△ 28	1-574-390-31	CORD, POWER (MADE IN FRANCE:UK)	
△ 28	1-575-651-21	CORD, POWER (MADE IN JAPAN:AEP)	
△ 28	1-575-653-21	CORD, POWER (E)	
△ 28	1-590-836-11	CORD, POWER (US, Canadian)	
29	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
* 61	1-452-538-11	MAGNET	
104	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
△ 107	8-848-144-01	DEVICE, OPTICAL KSS-240A	(MADE IN JAPAN)
△ 107	8-848-144-51	DEVICE, OPTICAL KSS-240A	(MADE IN FRANCE)

FLD401	1-519-681-11	INDICATOR TUBE, FLUORESCENT	
M101	X-4917-504-1	MOTOR ASSY (SLED)	
M102	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M191	A-4604-363-A	MOTOR (L) ASSY (LOADING)	
△ T901	1-449-921-11	TRANSFORMER, POWER (US, Canadian)	
△ T901	1-449-922-11	TRANSFORMER, POWER	(MADE IN JAPAN:AEP, Australian)
△ T901	1-449-923-11	TRANSFORMER, POWER (E)	
△ T901	1-449-925-11	TRANSFORMER, POWER (MADE IN FRANCE)	

ACCESSORIES & PACKING MATERIALS

1-465-867-11	REMOTE COMMANDER (RM-D597)	(AEP, G, UK)
1-465-868-11	REMOTE COMMANDER (RM-D297)	(US, Canadian, E, Australian)
1-558-271-11	CORD, CONNECTION	
2-181-754-01	COVER, BATTERY	
3-754-386-11	MANUAL, INSTRUCTION (ENGLISH, F, E, P)	(MADE IN JAPAN:Canadian, AEP, UK, E, Australian)
3-754-386-21	MANUAL, INSTRUCTION (ENGLISH) (US)	
3-754-386-41	MANUAL, INSTRUCTION (D, I, NL, S)	(AEP)
3-754-386-51	MANUAL, INSTRUCTION (ENGLISH, F, E, P)	(MADE IN FRANCE:AEP, UK)

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 Ne les remplacer que par une pièce portant le numéro spécifié.

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<u>Ref.No</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
	3-754-386-61	MANUAL, INSTRUCTION (D, I, NL, S) (MADE IN FRANCE:AEP)	
*	3-754-386-81	MANUAL, INSTRUCTION (D) (G)	
*	4-925-389-01	CUSHION (MADE IN JAPAN)	
*	4-929-506-02	CUSHION (MADE IN FRANCE)	
*	4-941-548-01	LABEL, CLASS 1 (EXCEPT US, Canadian, Australian)	
*	4-948-880-02	INDIVIDUAL CARTON (MADE IN FRANCE)	
*	4-950-870-02	INDIVIDUAL CARTON (MADE IN JAPAN)	

HARDWARE LIST

#1	7-682-548-09	SCREW +BVT 3X8 (S)
#2	7-685-646-79	SCREW +BVT 3X8 TYPE2 N-S
#3	7-682-547-04	SCREW +BVT 3X6 (S)
#4	7-682-547-09	SCREW +B 3X6
#5	7-621-775-10	SCREW +B 2.6X4
#6	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S
#7	7-621-255-15	SCREW +P 2X3

D: GERMAN F: FRANCH NL: DUTCH S: SWEDISH
E: SPANISH I: ITALIAN P: PORTUGUESE

<u>Ref.No</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
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