

CDP-711/711E

SERVICE MANUAL

AEP Model
E Model
Australian Model
CDP-711
UK Model
CDP-711E

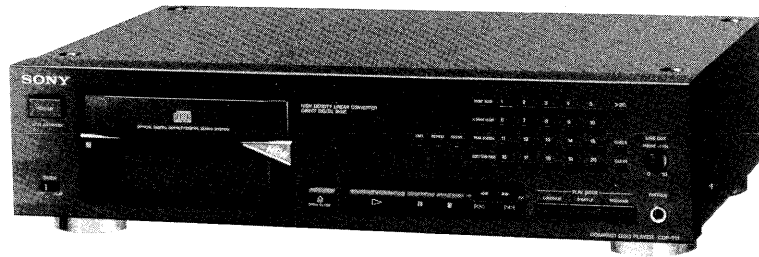


Photo : CDP-711

Model Name Using Similar Mechanism	NEW
CD Mechanism	CDM25-5BD10B
Optical Pick-Up Block Type	BU-5BD10B

SPECIFICATIONS

Compact disc player

Laser	Semiconductor laser
Wavelength	780–790 nm
Frequency response	2 Hz to 20 kHz ± 0.5 dB
Signal-to-noise ratio	More than 111 dB
Dynamic range	More than 98 dB
Harmonic distortion	Less than 0.0027%
Channel separation	More than 105 dB

Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms
LINE OUT (VARIABLE) (phono jacks)	Output level max. 2 V (at 50 kilohms) Load impedance over 50 kilohms
DIGITAL OUT (OPTICAL) (optical output connector)	Wave length 660 nm Output level -18 dBm
PHONES (stereo phone jack)	Output level max. 10 mW Load impedance 32 ohms

General

Power requirements	European model: 220 V – 230 V AC, 50/60 Hz Australian model: 240 V AC, 50/60Hz For other countries: 110 – 120 V, 220 – 240 V AC, adjustable, 50/60 Hz
Power consumption	13 W
Dimensions (approx., including projections)	430 x 110 x 295 mm
(Mass(approx.))	4.1kg

Remote commander

Remote control system	Infrared control
Power requirements	3 V DC with two R6 (size AA) batteries
Dimensions (approx., including projections)	62 x 18 x 175 mm (w/h/d)
Mass (approx.)	130g

Supplied accessories

Audio cord	(1) (2 phono plugs – 2 phono plugs)
Remote commander	(1)
Sony SUM-3 (NS) batteries	(2)

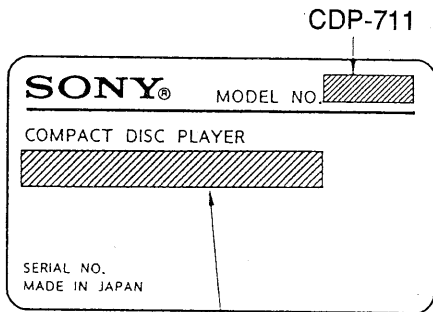
Design and specifications are subject to change without notice.

COMPACT DISC PLAYER
SONY[®]

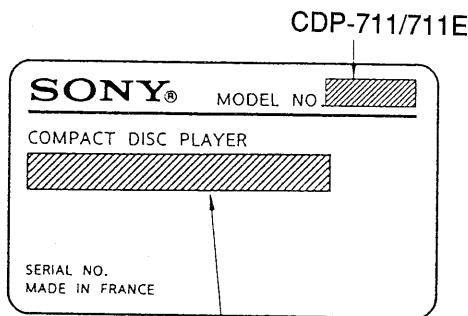
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MODEL IDENTIFICATION —Model Number Label—



AEP model : AC220-230V ~50/60Hz
 Australian model : AC 240V ~50/60Hz
 E, Saudi Arabia model : AC 100-120V, 220-240V,
 ~50/60Hz



AEP, Germany model : AC220-230V ~50/60Hz
 UK model : AC240V ~50/60Hz

SAFETY-RELATED COMPONENT WARNING!!

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

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 changed electrostatic load, etc. on clothing and the human body.

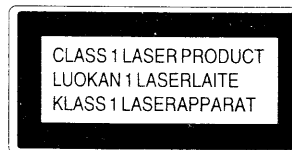
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

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

NOTES ON LASER DIODE EMISSION CHECK

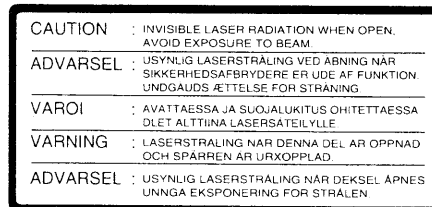
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30 cm away from the objective lens.

For the United Kingdom and European countries.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

The following caution label is located inside of the unit.



RAPPORT A LA SÉCURITÉ!

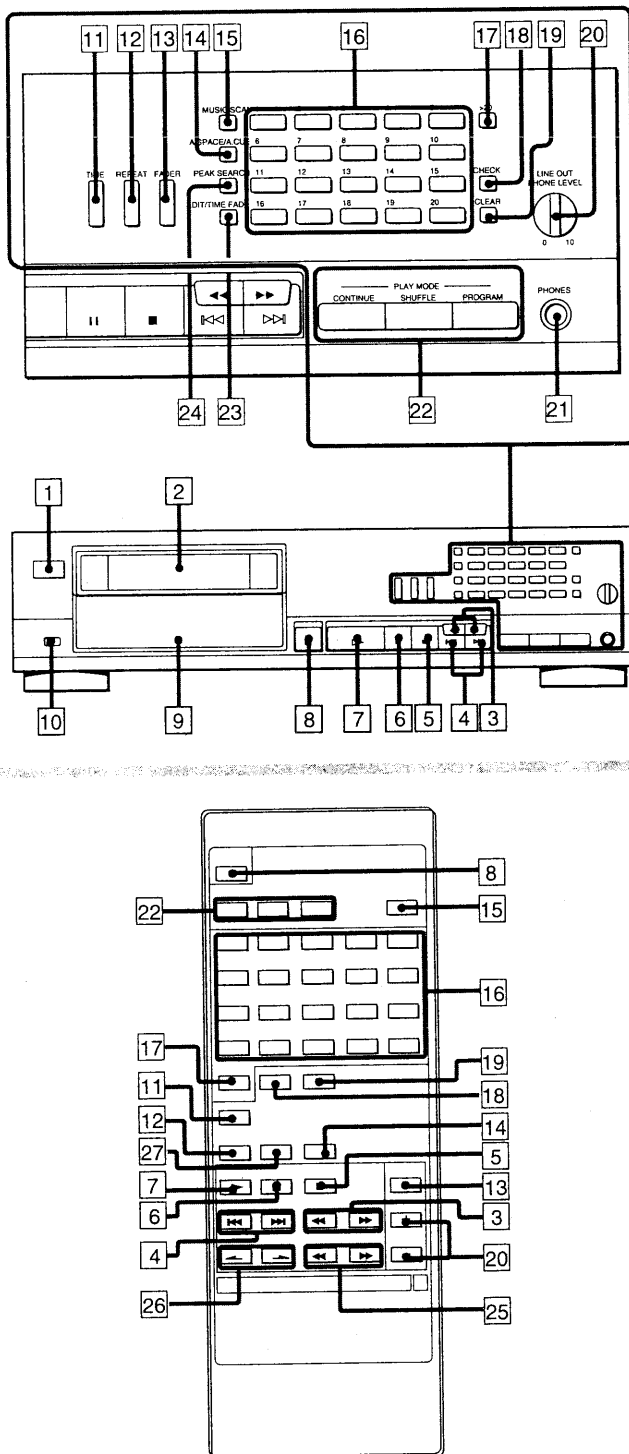
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

Identifying the Parts

Refer to the pages indicated in parentheses for details.

Front Panel/ Remote Commander



- 1 POWER switch (16)
- 2 Disc tray (16)
- 3 ◀▶▶▶ (manual search) buttons (22, 44)
- 4 ◀▶▶▶ (AMS*) buttons (20, 34, 48)
- 5 ■ (stop) button (16)
- 6 || (pause) button (16)
- 7 ▶ (play) button (16)
- 8 ▲ OPEN/CLOSE button (16)
- 9 Display window (16)
- 10 TIMER switch (56)
- 11 TIME button (18)
- 12 REPEAT button (40)
(CLEAR REPEAT button on the remote commander)
- 13 FADER button (44)
- 14 A.SPACE/A.CUE button (24)
- 15 MUSIC SCAN button (38)
(M.SCAN button on the remote commander)
- 16 Numeric buttons (20, 28, 32, 46)
- 17 >20 (over 20) button (20)
- 18 CHECK (program check) button (36)
- 19 CLEAR (program clear) button (28, 30, 36)
- 20 LINE OUT/PHONE LEVEL control (12, 16)
(LINE OUT LEVEL +/- buttons on the remote commander)
- 21 PHONES jack
- 22 Play mode buttons
CONTINUE button (26, 30)
SHUFFLE button (26, 28, 30)
PROGRAM button (32, 34)
- 23 EDIT/TIME FADE button (46, 48, 52)
- 24 PEAK SEARCH button (54)
- 25 ◀▶▶▶ SLOW (low speed manual search buttons) (22)
- 26 ◀ ▶ INDEX buttons (22)
- 27 A ↔ B button (42)

* AMS is the abbreviation of Automatic Music Sensor.

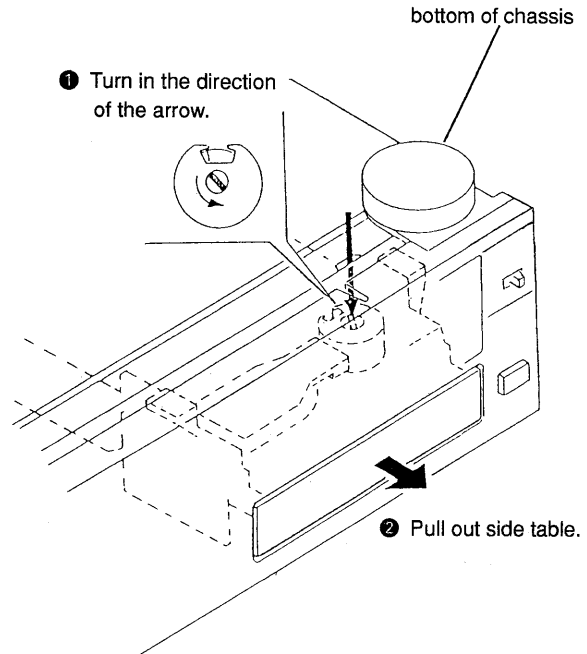
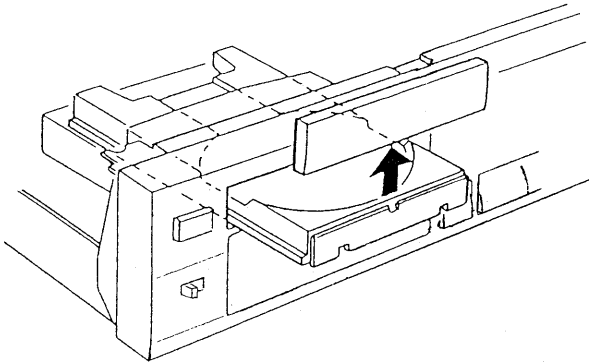
SECTION 2 DISASSEMBLY

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

2-1. FRONT PANEL REMOVAL

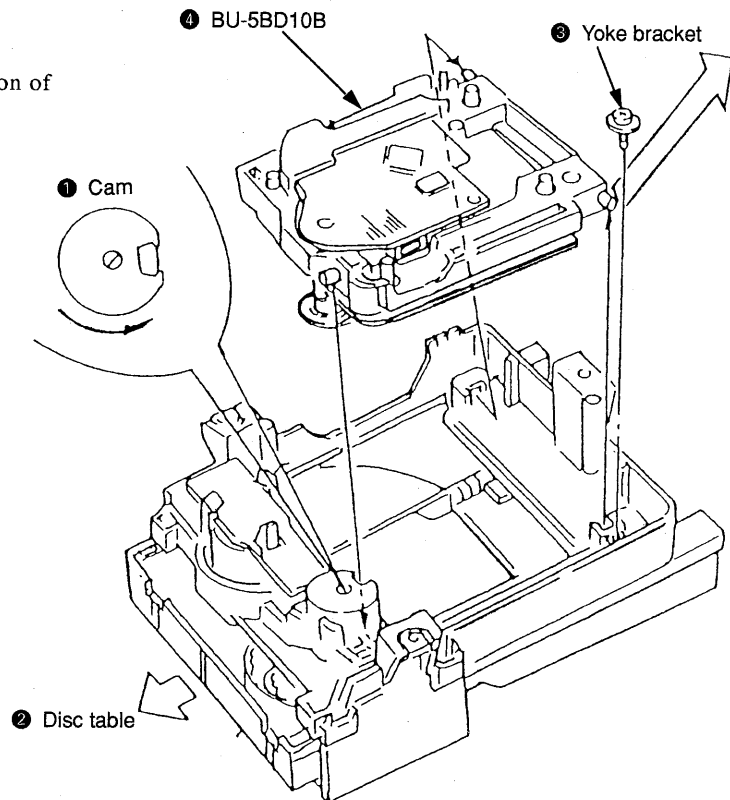
• When removing the front panel assembly on electric power failure, first open the loading block by turning cam with a screwdriver as shown in the figure, next pull out the loading block with hand, and remove the loading panel as shown in the figure, Then remove the front panel assembly.

③ Remove loading panel in the arrow direction.



2-2. MD (BU-5BD10B) REMOVAL

- ① Turn the cam to the direction of arrow (Counter clock wise) by minus screw driver.
- ② Take off the disc table.
- ③ Remove the yoke bracket.
- ④ Remove the MD (BU-5BD10B) to the direction of arrow.

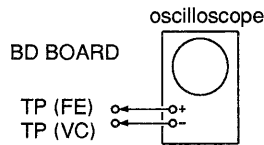


SECTION 3 ELECTRICAL BLOCK CHECKING

Note :

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-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 when the signal level is low than specified value with the following checks.

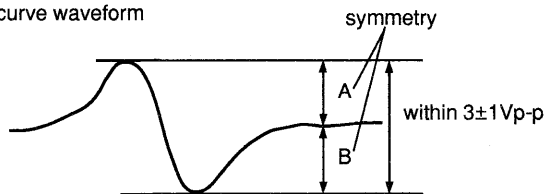
S-Curve Check



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. Turned 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 $3 \pm 1Vp-p$.

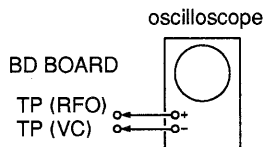
S-curve waveform



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 waveform.

RF Level Check



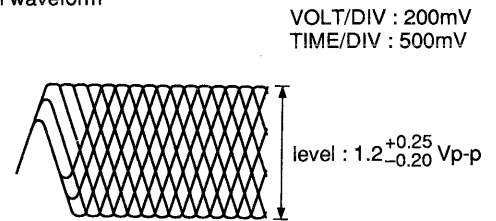
Procedure :

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.

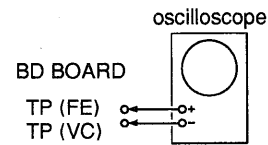
Note :

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

RF signal waveform



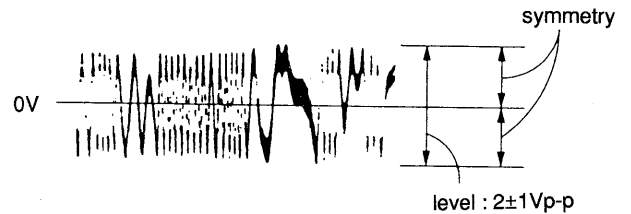
E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TEI) to (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.

Traverse waveform

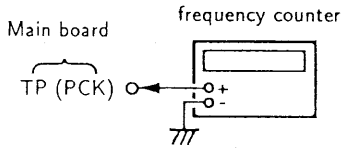


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

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

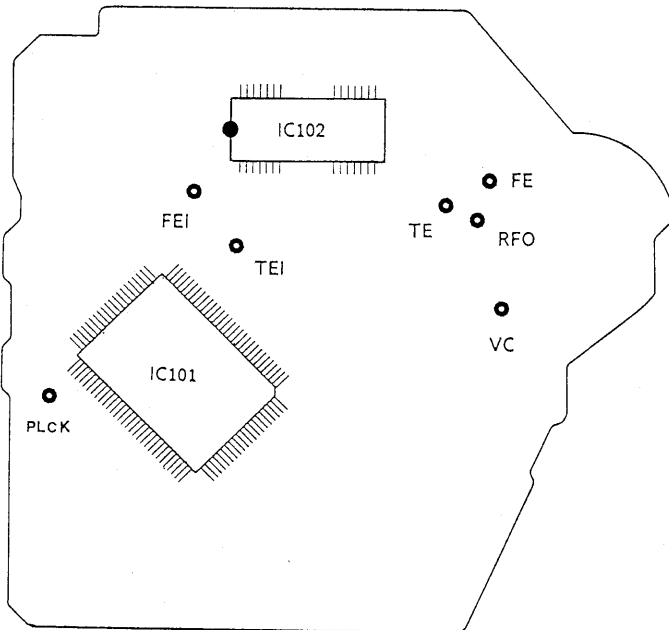


2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

Adjustment Location :

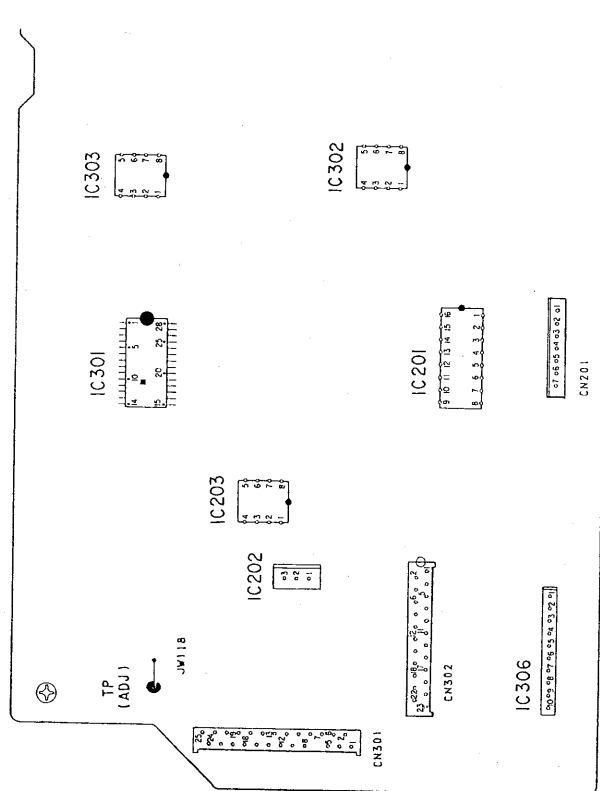
[BD BOARD]

—Conductor side—



[MAIN BOARD]

—Conductor side—



SECTION 4 DIAGRAMS

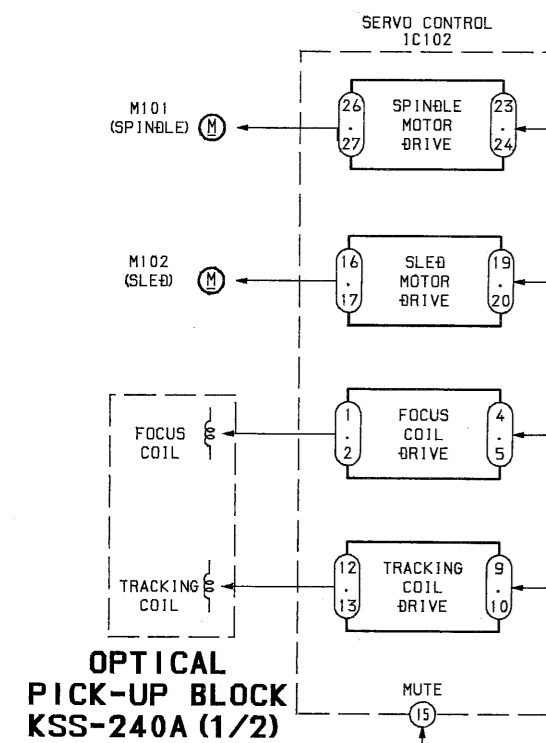
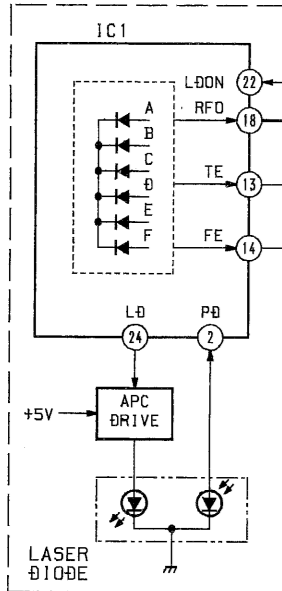
4-1. IC PIN FUNCTION

• IC401 (CXD82316)

Pin No.	Pin Name	I/O	Description
1	INSW	I	Loading in switch
2	RECOM	I	Remote commander input
3	SUBQ	I	SUB-Q serial data
4	AMUTE	O	Audio mute out "H" : MUTE
5	LDON	O	Laser ON/OFF "H" : ON
6	XLT	O	IC101(CXD2515Q) data latch pulse
7	SQCLK	O	SUB-Q read clock
8	CLK	O	IC101(CXD2515Q), IC301(CXD2565M) serial data clock
9	PRGL	O	IC301(CXD2565M) data latch pulse
10	DATA	O	IC101(CXD2515Q), IC301(CXD2565M) data
11~15	—	—	Not used (open)
16	DSPSEL	I	0V
17	LDOUT	O	Loading out output
18	LDIN	O	Loading in output
19	RV -	O	Remote commander Volume -
20	RV +	O	Remote commander Volume +
21	6/8DISP	O	6 Display "H", 8 Display "L"
22	TEST	O	AFADJ, ADJ mode terminal
23~29	KEY1~KEY7	I	Key A/D input 1~7
30	RST	I	RESET input
31	EXTAL	I	Main system clock connection
32	XTAL	—	Main system clock connection
33	Vss	I	0V
34	RVLED	O	Remote commander volume LED
35~41	—	—	Not used (open)
42~61	P20~P1	O	Display segment 20~1
62	P21	O	Display segment 21
63~70	1G~8G	O	Display grid 1~8
71	V _{FDP}	I	-30V Display grid segment low voltage
72	V _{DD}	I	5V
73	NC	I	5V
74	TIMER	I	Timer start switch
75	SCLK	O	SSP data read clock
76	GFS	I	GFS input
77	FOK	I	FOK input
78	SCOR	I	SUB-Q sync input
79	SENSE	I	SSP, DSP sense input
80	OUTSW	I	Loading out switch

4-2. BLOCK DIAGRAM

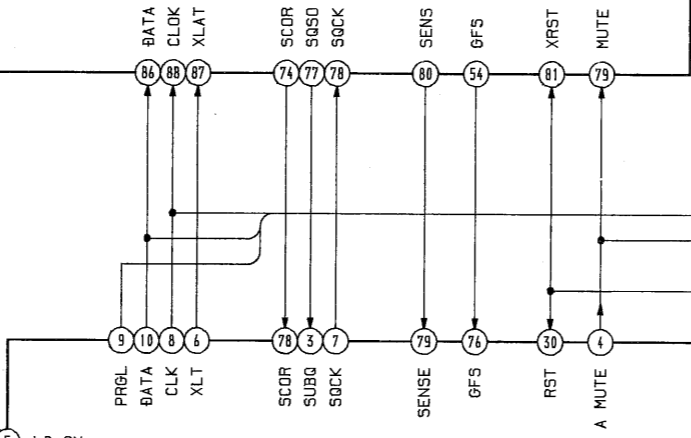
OPTICAL PICK-UP BLOCK KSS-240A (1/2)



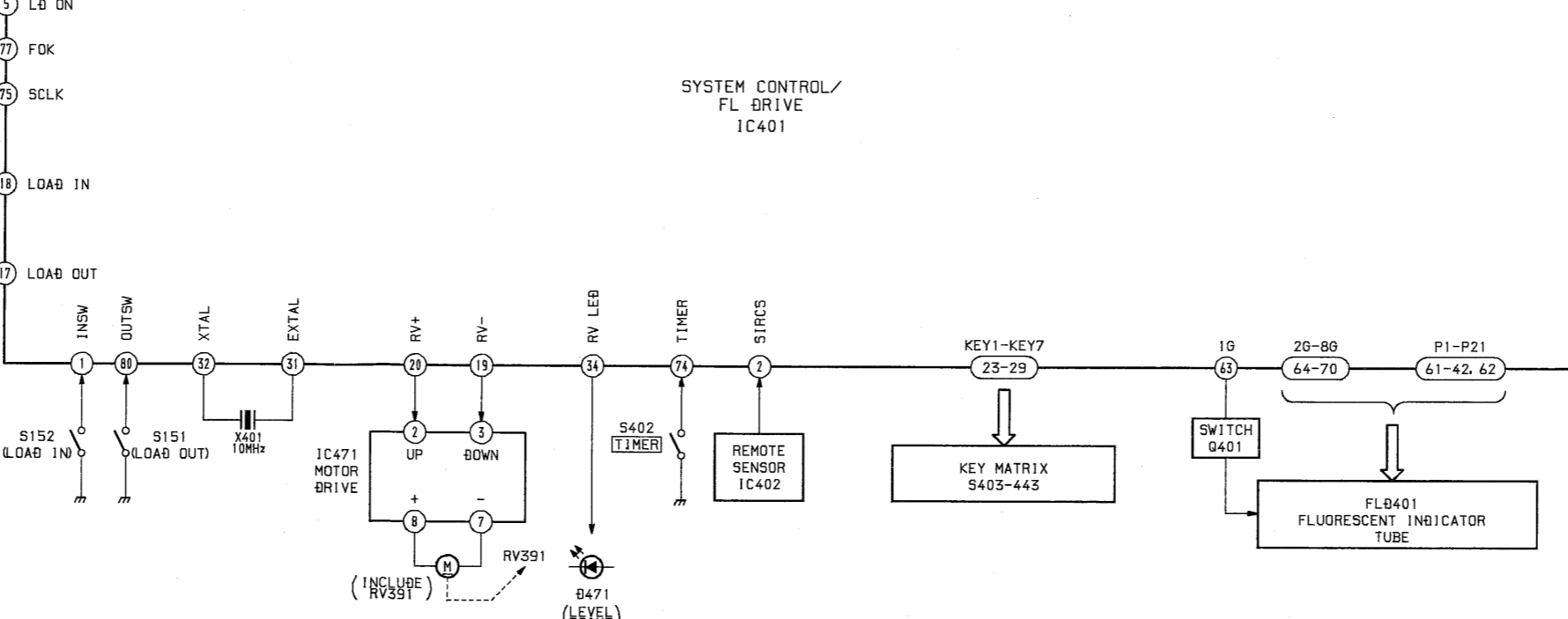
OPTICAL PICK-UP BLOCK KSS-240A (1/2)



FOCUS, TRACKING/SLEW, SPINDLE SERVO EFM COMPARATOR IC101

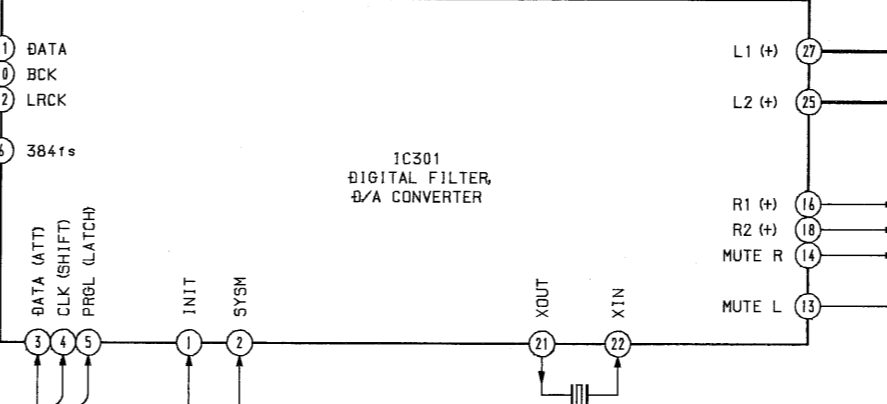


SYSTEM CONTROL/FL DRIVE IC401

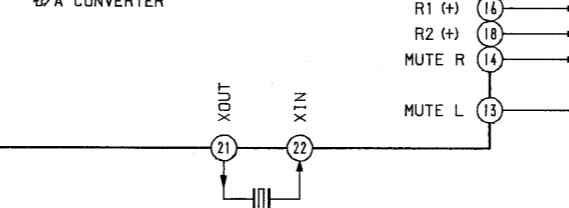


OPTICAL OUT IC305

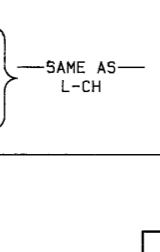
DIGITAL OUT (OPTICAL)



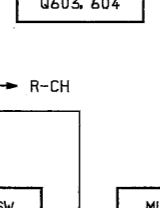
IC301 DIGITAL FILTER &/A CONVERTER



AUDIO AMP IC302



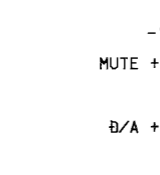
MUTE Q603, 604



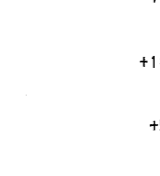
MUTE SW Q601



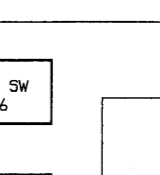
MUTE SW Q301



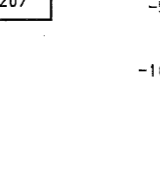
REG. Q208



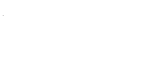
REG. IC203, Q204



+7V REG. IC202



+5V REG. Q203



-5V REG. Q202

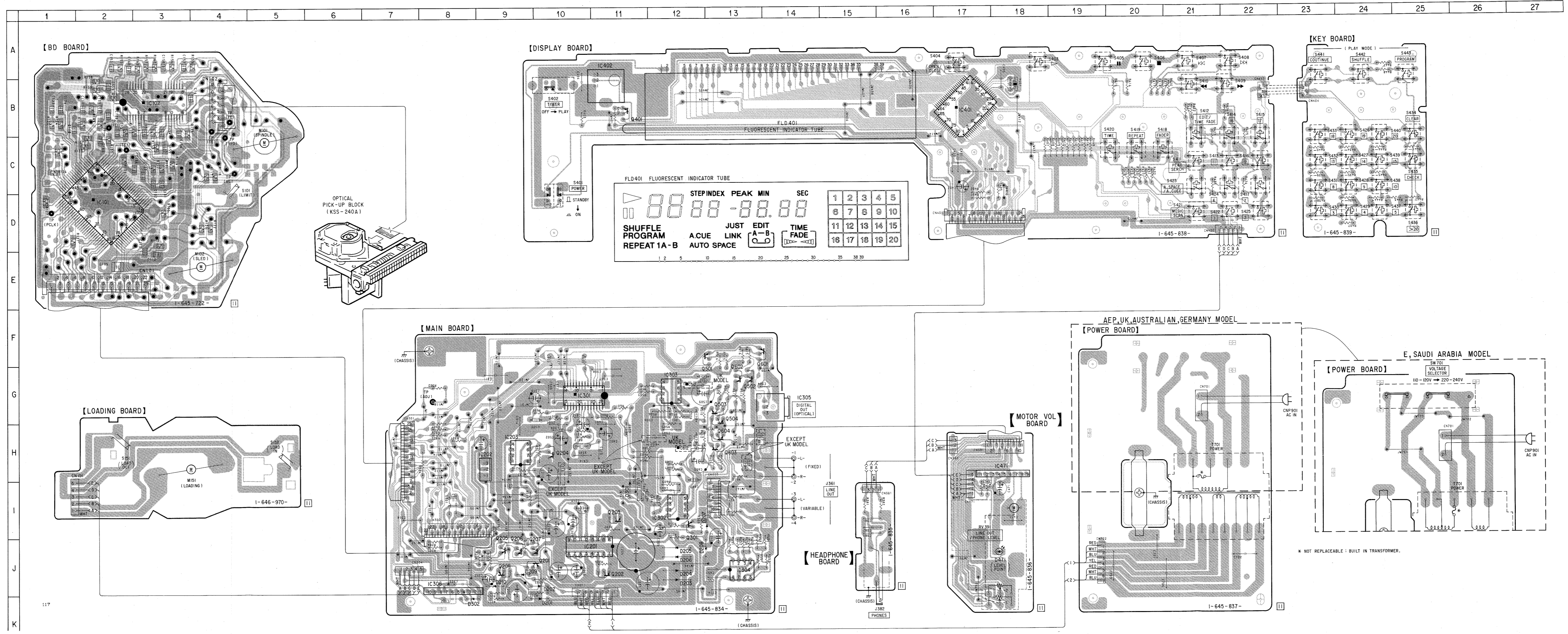
• See page 19 for Semiconductor Lead Layouts

4-3. PRINTED WIRING BOARDS

Note on Printed Wiring Boards:
 • : parts mounted on the conductor side.
 • : Through hole.
 • : Pattern on the side which is seen.
 • : Pattern of the rear side.

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D201	K-10	IC401	B-17
D202	J-10	IC402	I-11
D203	J-12	IC471	H-18
D204	J-12		
D205	J-12	Q201	J-9
D206	J-12	Q202	J-11
D207	I-12	Q203	I-11
D208	J-12	Q204	H-10
D209	J-9	Q205	J-9
D210	J-9	Q206	J-9
D301	I-11	Q207	J-9
D302	K-8	Q208	J-9
D471	J-8	Q301	I-12
		Q401	B-12
IC101	D-2	Q501	F-13
IC102	B-3	Q502	G-13
IC201	J-10	Q503	G-13
IC202	H-9	Q504	G-13
IC203	H-9	Q601	F-13
IC301	G-10	Q602	G-13
IC302	I-12	Q603	H-13
IC303	G-12	Q604	H-13
IC304	J-13		
IC305	G-14		
IC306	J-8		

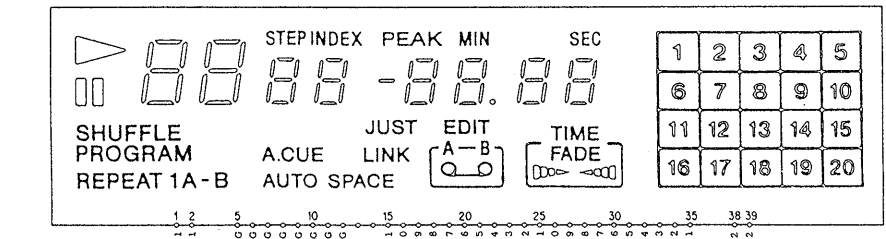


4-4. SCHEMATIC DIAGRAM

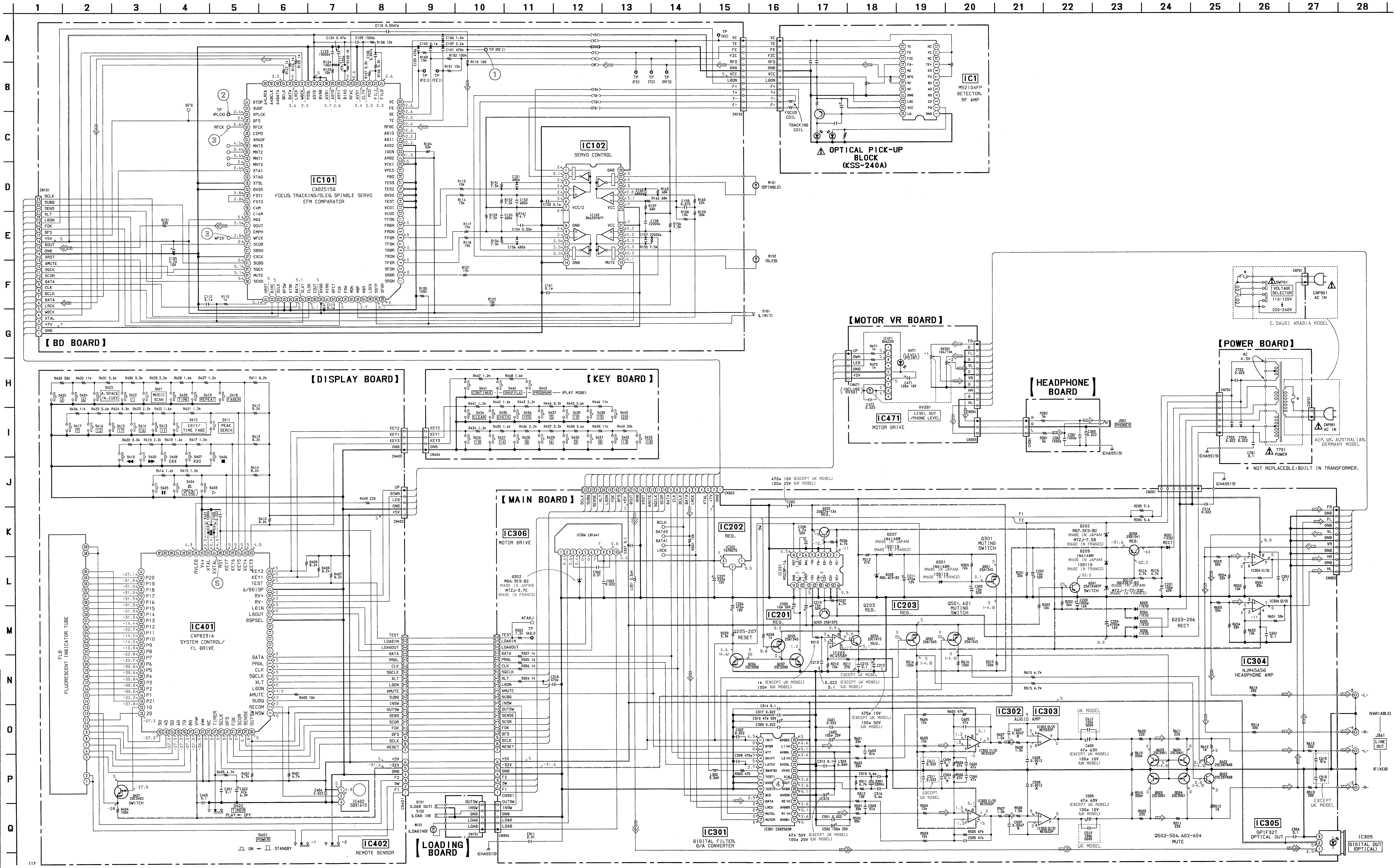
Note on Schematic Diagram:

- Note:**
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums...
 - All resistors are in Ω and 1/4W or less unless otherwise specified.
 - Δ : Internal component.
 - \ominus : B+ Line
 - \ominus : B- Line
 - Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
 - no mark : STOP
 - () : PLAY
 - Voltages are taken with a VOM (50k Ω/V).
 - Voltage variations may be noted due to normal production tolerances.
 - Waveforms are taken with an oscilloscope.
 - Circuit numbers refer to waveforms.
 - signal path.
 - \Rightarrow : CD
 - \Rightarrow : digital out

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

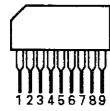


SEG	8G	7G	6G	5G	4G	3G	2G	1G
SEG 1	▷			A. CUE	AUTO			20
SEG 2	00			SPACE				19
SEG 3	SHUFFLE	INDEX	JUST	MIN				18
SEG 4	PROGRAM	STEP	LINK					17
SEG 5								16
SEG 6								15
SEG 7								14
SEG 8								13
SEG 9								12
SEG 10								11
SEG 11								10
SEG 12								9
SEG 13								8
SEG 14								7
SEG 15								6
SEG 16								5
SEG 17	REPEAT				A			4
SEG 18	1				B			3
SEG 19	A-				EDIT			2
SEG 20	B				PEAK			1
SEG 21								

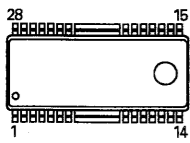


• Semiconductor Lead Layouts

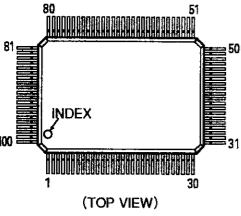
BA6208



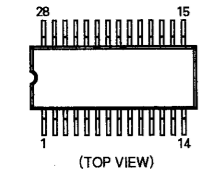
BA6297AFP



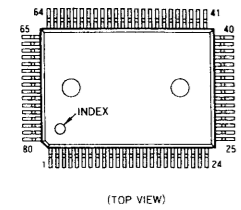
CXD2515Q



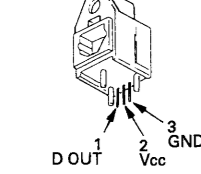
CXD2565M-1



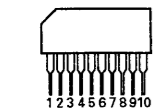
CXP8216-007Q



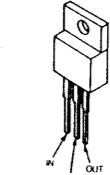
GP1F32T



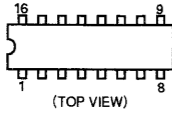
LB1641



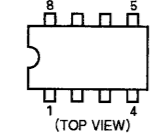
M5F78M07L



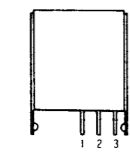
M5290P-16



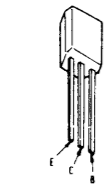
NE5532P
NJM4565D



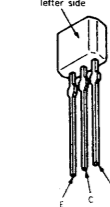
SBX1610-59



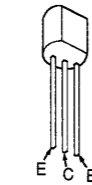
DTA144ES
DTC114ES
DTS143TS
2SC1815-Y



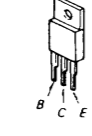
DTC114ES
2SA1175-HFE



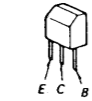
2SB1041
2SC2878-AB



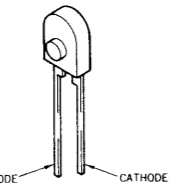
2SB1094-LK



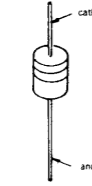
2SD774-34



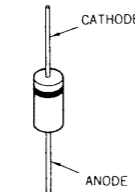
BR4361F



MTZJ-33C
MTZJ-4.7C
MTZJ-7.5B
RD3.3ESB2
RD5.6ESB2
RD7.5ESB2
11ES2
1SS119

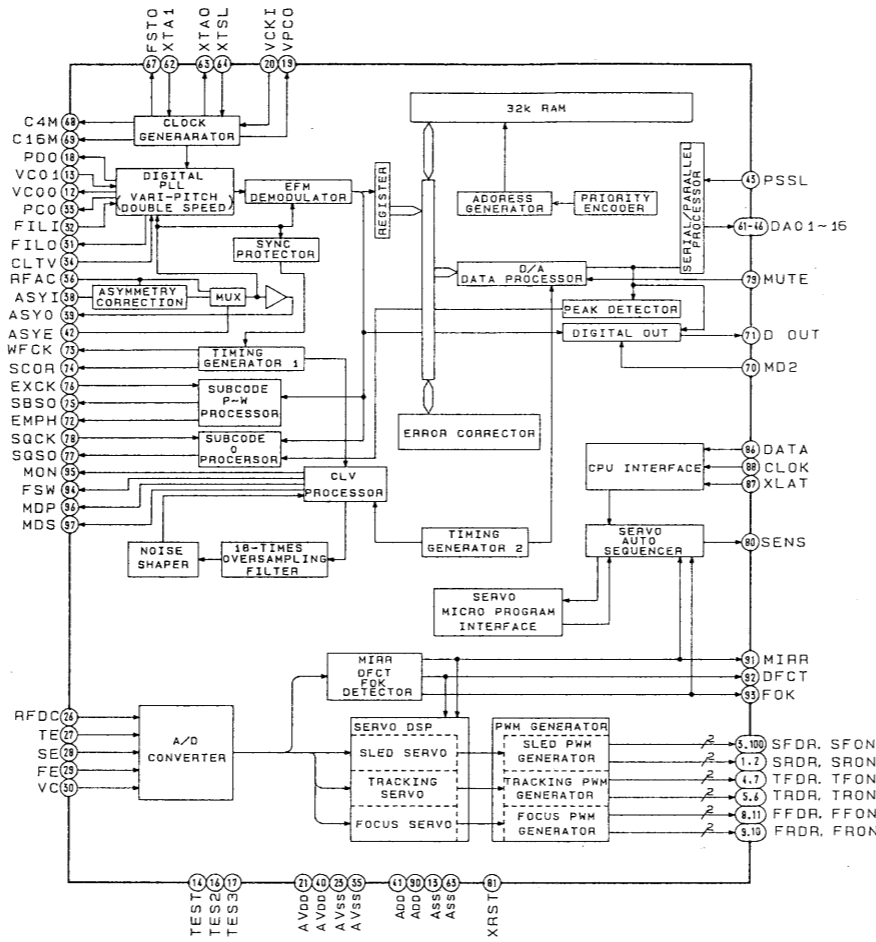


RD4.3ESB2
1N4148M

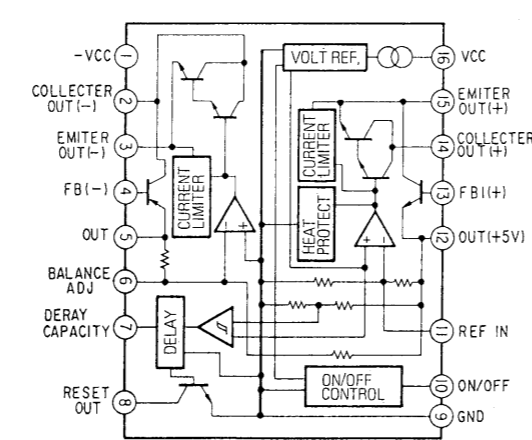


• IC Block Diagrams

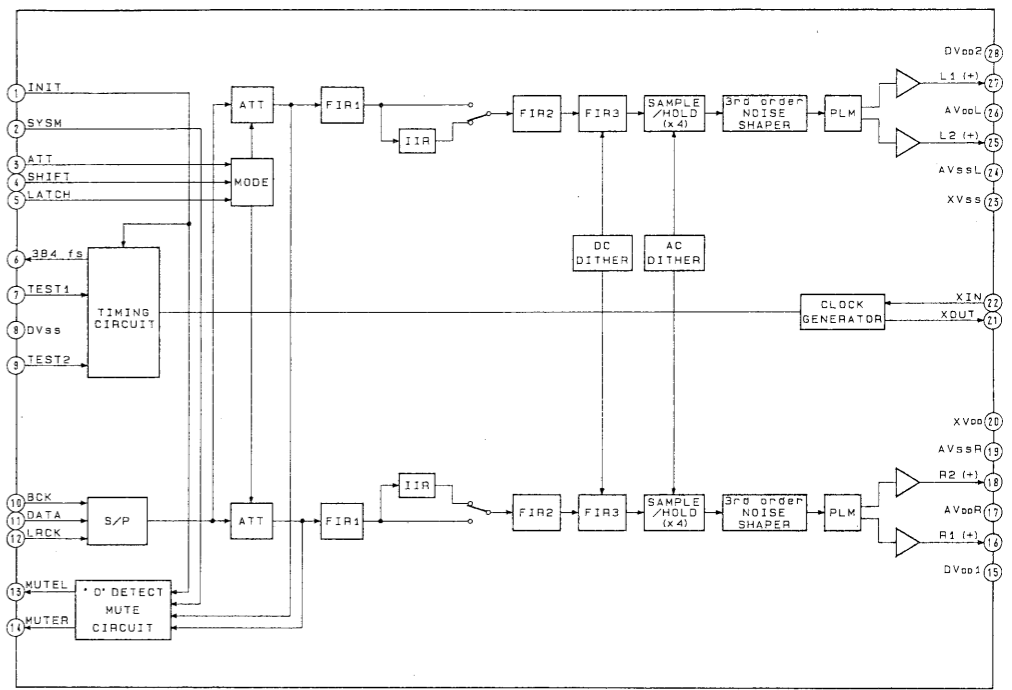
IC101 CXD2515Q



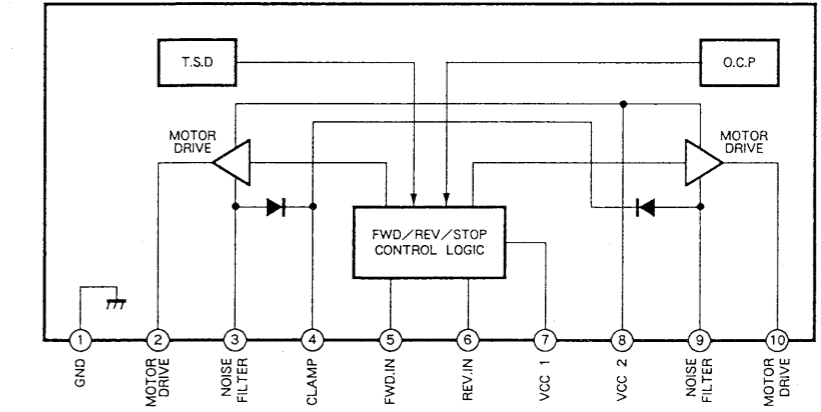
IC201 M5290P-16



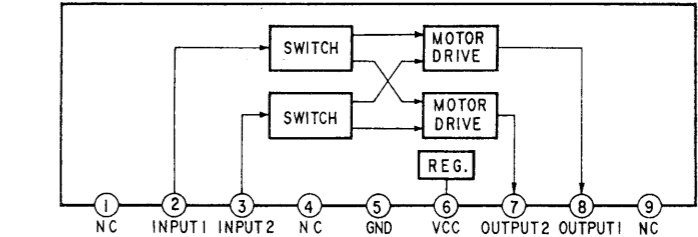
IC301 CXD2565M



IC306 LB1641



IC471 BA6208



SECTION 5 EXPLODED VIEWS

NOTE :

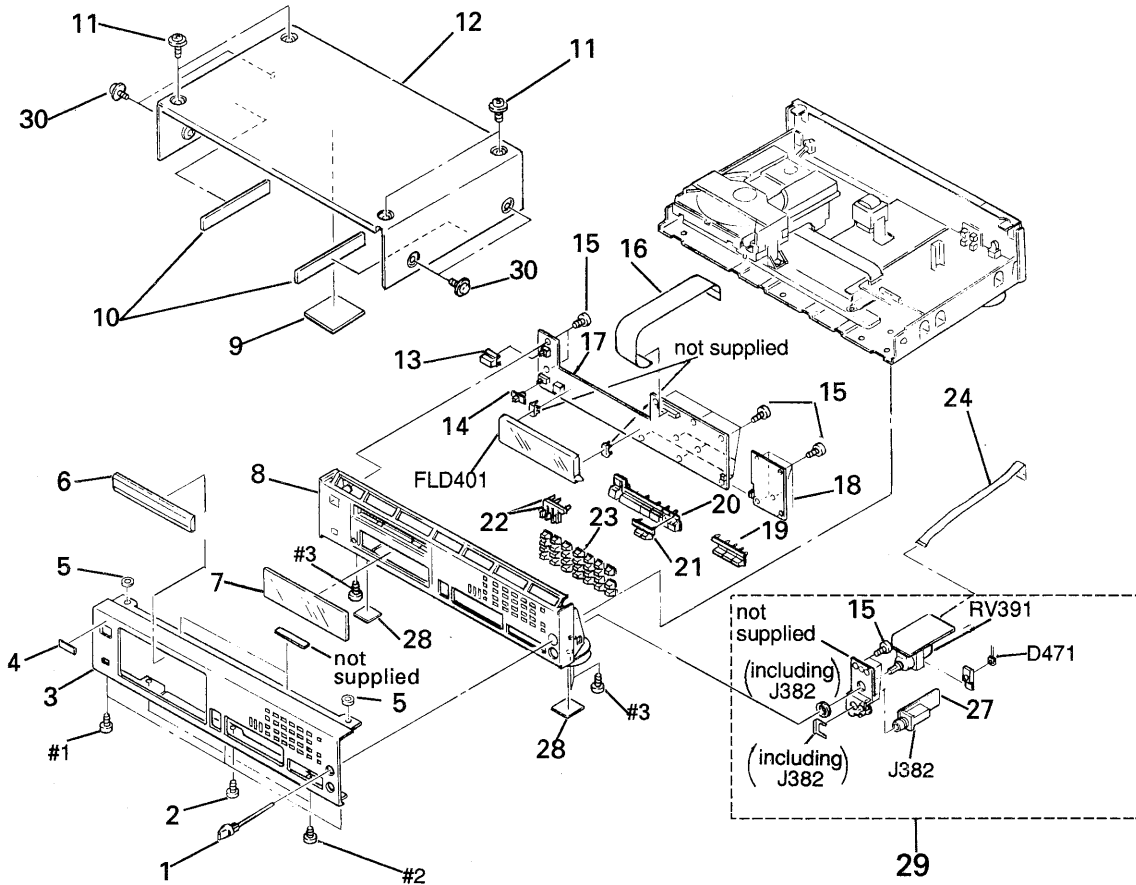
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color indication of Appearance Parts Example :
KONB, BALANCE (WHITE)...(RED)

↑ ↑
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.
- Then 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
EA : Saudi Arabia model
AUS : Australian model

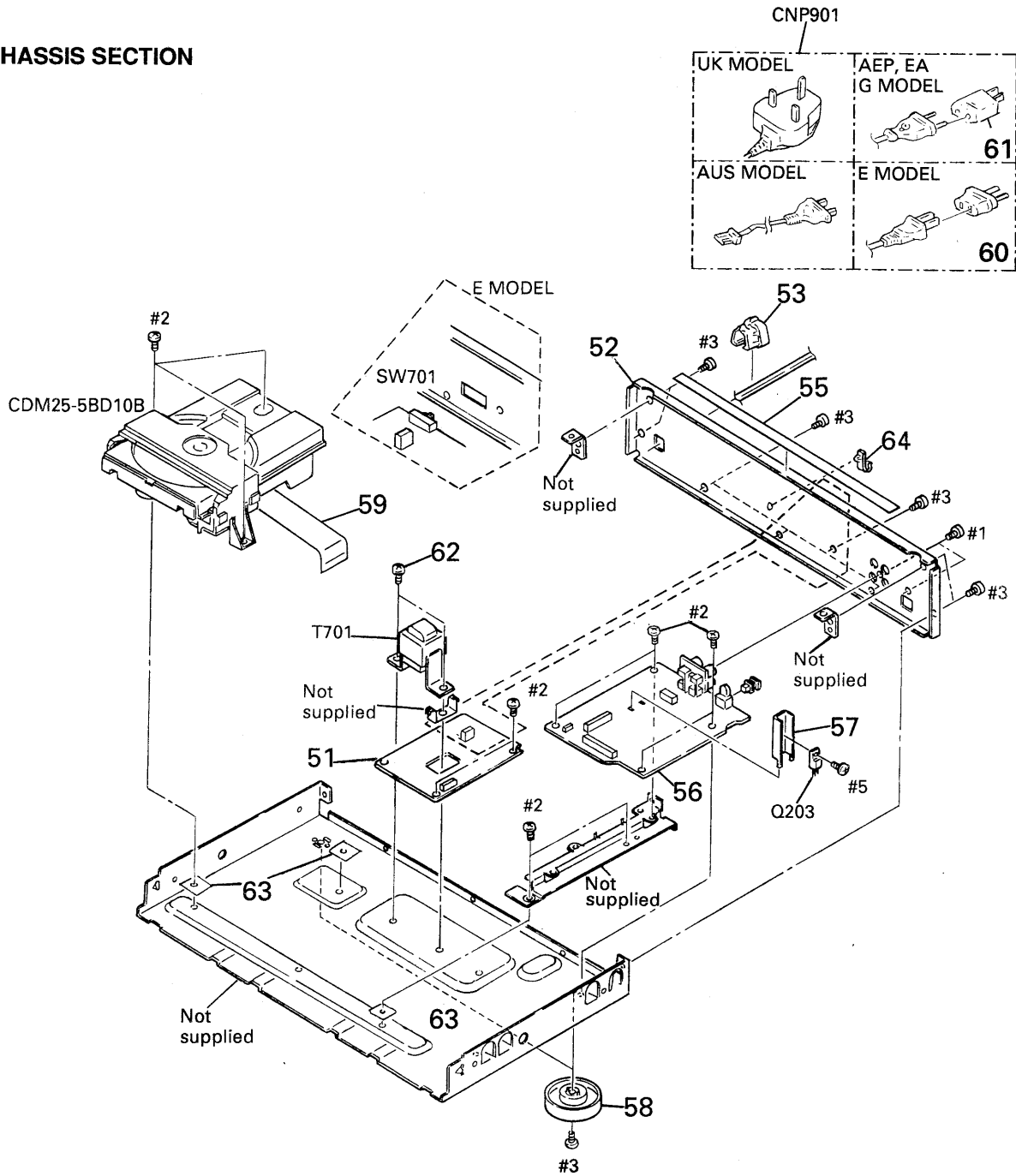
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

(1) FRONT PANEL ASS'Y AND CASE SECTION



Ref. No.	Parts No.	Description	Remark	Ref. No.	Parts No.	Description	Remark
1	A-4660-383-A	KNOB (VOL) ASSY		20	4-955-931-11	BUTTON (PLAY)	
2	3-703-685-21	SCREW (+BV 3X8)		21	4-955-932-11	BUTTON (MMS)	
3	4-955-930-01	PANEL, FRONT (711E)		22	4-955-934-11	BUTTON (FILE)	
3	4-955-930-51	PANEL, FRONT (711)		23	4-955-935-11	BUTTON (20 KEY)	
4	4-908-848-01	EMBLEM, SONY		24	1-696-761-11	WIRE (FLAT TYPE) (11 CORE)	
5	4-955-939-31	WASHER (CASE)		*25	1-645-836-11	MOTOR VOL BOARD	
6	4-955-928-21	PANEL, LOADING		*27	1-645-835-11	HP BOARD	
7	4-955-929-11	PLATE, INDICATION		28	4-956-890-11	CUSHION	
8	X-4943-372-1	BASE ASSY, PANEL		*29	A-4660-300-A	RV ASSY	
* 9	4-922-943-01	DUMPER		30	3-704-366-01	SCREW (CASE) (M3X8)	
10	4-929-561-01	CUSHION (CASE)		D471	8-719-970-49	DIODE BR4361F	
11	3-363-099-01	SCREW (CASE 3 TP2)		FLD401	1-519-757-11	INDICATOR TUBE, FLUORESCENT	
12	4-929-529-01	CASE		J382	1-568-519-41	JACK, LARGE TYPE (PHONES)	
13	4-947-034-01	BUTTON (POWER)		RV391	1-238-974-11	RES, VAR, CARBON 10K/10K (LEVEL OUT/PHONE LEVEL)	
14	4-922-518-11	KNOB (TIMER)					
15	4-951-620-01	SCREW (2.6X8), +BVTP					
16	1-696-759-11	WIRE (FLAT TYPE) (25 CORE)					
17	A-4649-579-A	DISP BOARD, COMPLETE					
18	A-4649-580-A	FUNCTION BOARD, COMPLETE					
19	4-955-933-11	BUTTON (MODE 3)					

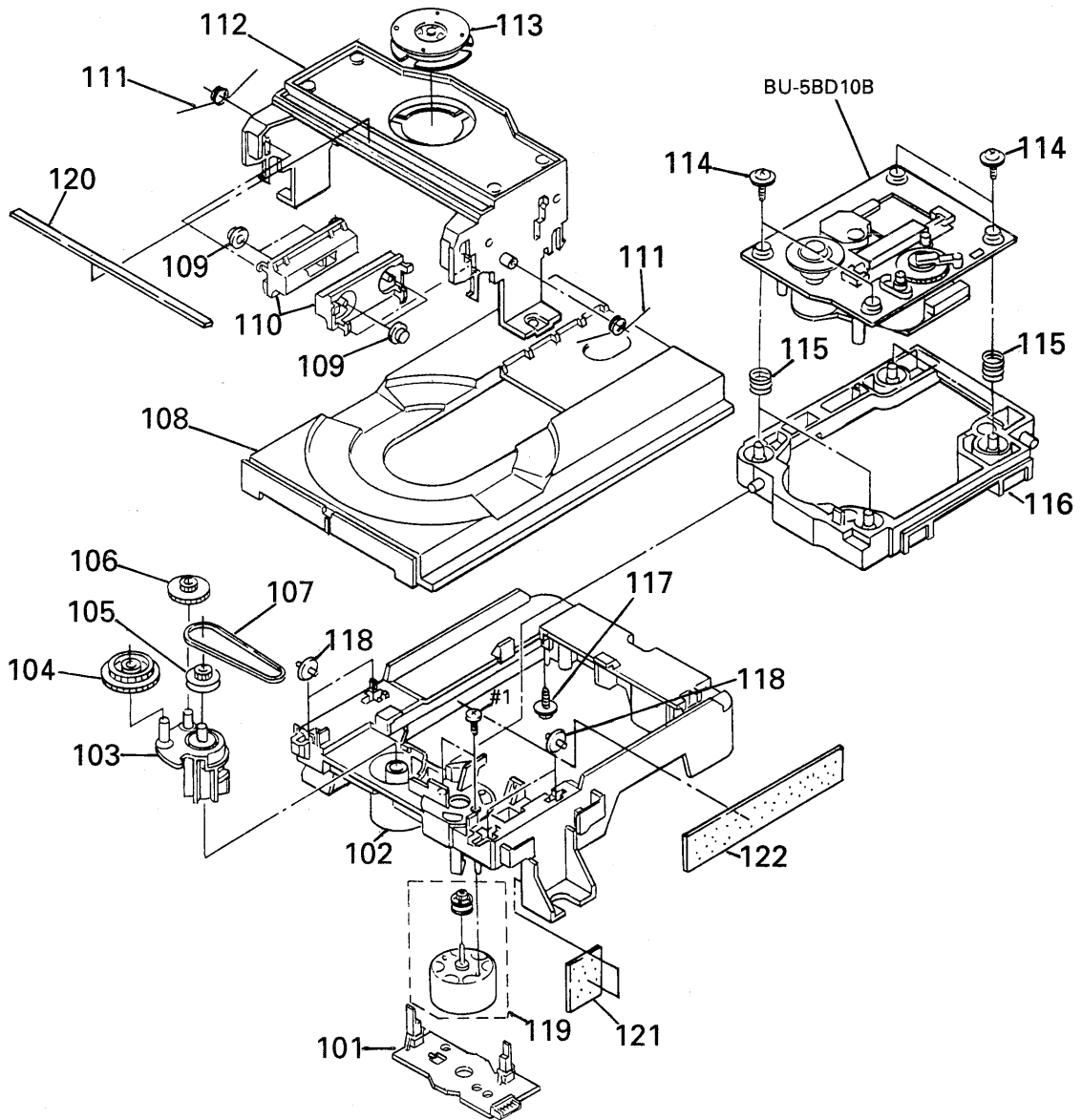
(2) CHASSIS SECTION



Ref. No.	Parts No.	Description	Remark
*51	1-645-837-11	POWER BOARD	
52	4-955-942-01	PANEL, BACK (AEP) (MADE IN JAPAN)	
52	4-955-942-11	PANEL, BACK (AUS) (MADE IN JAPAN)	
52	4-955-942-31	PANEL, BACK (E) (MADE IN JAPAN)	
*52	4-955-858-41	PANEL, BACK (AEP) (MADE IN FRANCE)	
*52	4-955-858-51	PANEL, BACK (711E)	
*53	3-703-244-00	BUSHING (2104), CORD (711:AEP, EA, AUS, G/711E)	
*53	3-703-571-11	BUSHING (S) (4516), CORD (711:E)	
*55	4-927-653-01	SHEET (F/P)	
56	A-4649-578-A	MAIN BOARD, COMPLETE (711)	
*56	A-4649-659-A	MAIN BOARD, COMPLETE (711E)	
57	3-309-144-21	HEAT SINK (711)	
57	4-941-237-01	HEAT SINK (711E)	
58	4-956-885-11	FOOT (F58175S2W) (711)	
58	X-4941-014-1	FOOT ASSY (711E)	
59	1-696-760-11	WIRE (FLAT TYPE) (23 CORE)	
60	1-569-007-11	ADAPTER, CONVERSION 2P (E)	

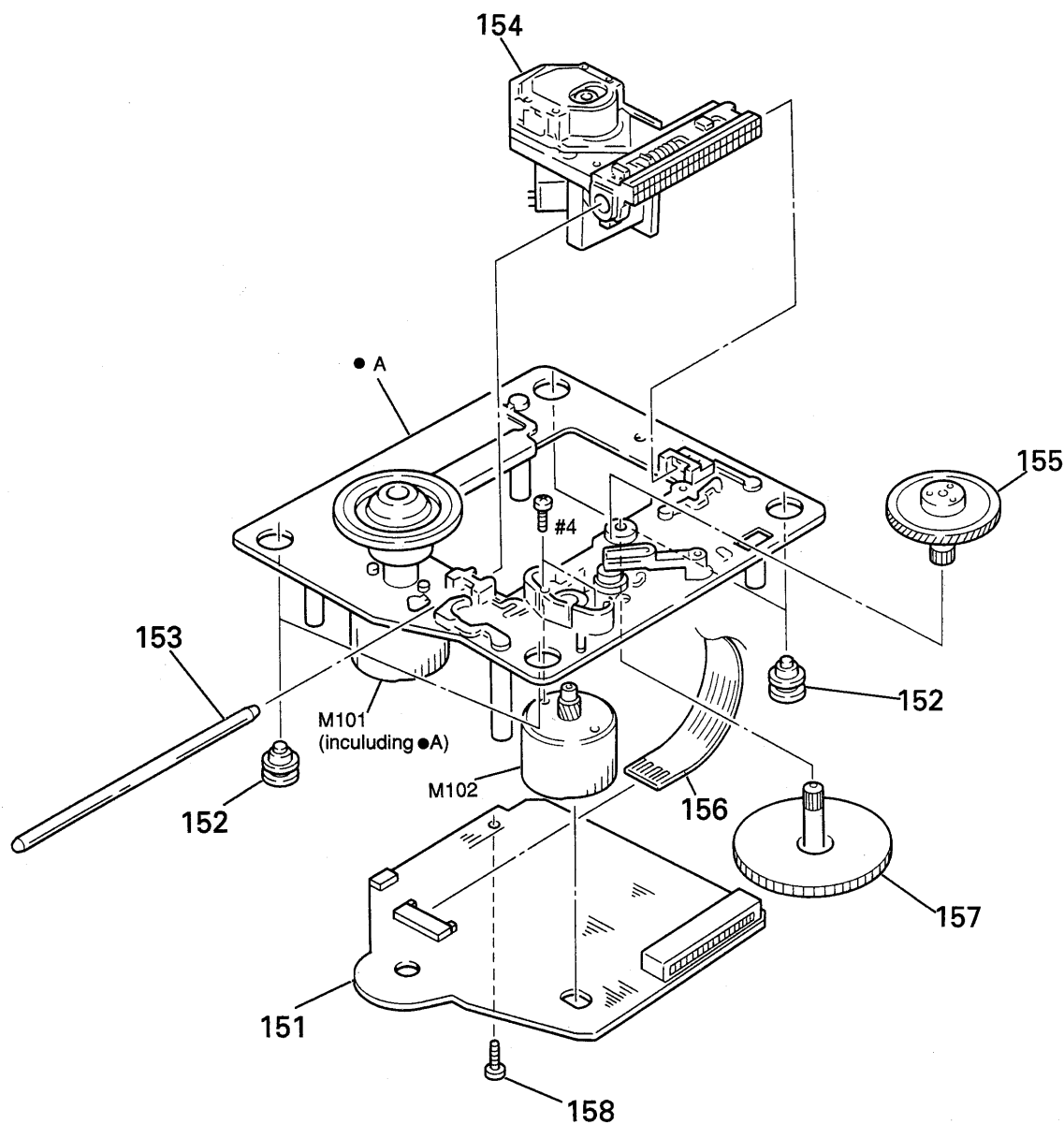
Ref. No.	Parts No.	Description	Remark
61	1-569-008-11	ADAPTER, CONVERSION 2P (EA)	
62	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
63	4-959-062-01	SHEET (CDM) (711E)	
*64	4-949-235-01	HOOK (711) (MADE IN JAPAN)	
CNP901△	1-696-027-11	CORD, POWER (E)	
CNP901△	1-696-845-11	CORD, POWER (AUS)	
CNP901△	1-696-907-11	CORD, POWER (711E)	
CNP901△	1-575-651-21	CORD, POWER (AEP/EA)	
T701△	1-423-518-11	TRANSFORMER, POWER (E/EA)	
T701△	1-423-604-11	TRANSFORMER, POWER (711E)	
T701△	1-449-922-11	TRANSFORMER, POWER (AEP, AUS) (MADE IN JAPAN)	
T701△	1-449-925-11	TRANSFORMER, POWER (AEP) (MADE IN FRANCE)	
Q203	8-729-141-83	TRANSISTOR 2SB1094-LK	

(3) CD MECHANISM SECTION (CDM25-5BD10B)



<u>Ref. No.</u>	<u>Parts No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Parts No.</u>	<u>Description</u>	<u>Remark</u>
*101	1-646-970-11	LOADING BOARD		*113	1-452-538-11	MAGNET	
*102	4-954-190-01	BASE (MD)		114	4-933-134-01	SCREW (+PTPWH M2.6X6)	
103	4-933-109-01	CAM		115	4-948-503-01	SPRING (BU), COMPRESSION	
104	4-933-107-01	GEAR (PL)					
105	4-927-651-01	PULLEY (S)		116	4-933-129-01	HOLDER (BU)	
106	4-927-628-01	GEAR (C)		*117	4-917-583-21	BRACKET, YOKE	
107	4-927-649-01	BELT		118	4-954-193-01	ROLLER (A)	
108	4-954-191-01	TABLE, DISK		119	A-4604-363-A	MOTOR (L) ASSY	
109	4-954-194-01	ROLLER (B)		120	4-959-061-01	DUMPER (711E)	
110	4-954-199-01	PLATE, SLIDE		121	4-959-121-01	DUMPER (711E)	
111	4-954-195-02	SPRING, TORSION		122	4-959-077-01	DUMPER (711E)	
*112	4-954-192-01	HOLDER (M)					

(4) OPTICAL PICK-UP BLOCK (BU-5BD10B)



<u>Ref. No.</u>	<u>Parts No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Parts No.</u>	<u>Description</u>	<u>Remark</u>
*151	A-4649-432-A	BD BOARD COMPLETE		156	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
152	4-951-940-01	INSULATOR (BU)		157	4-917-564-01	GEAR (P), FLATNESS	
153	4-917-565-01	SHAFT, SLED		158	4-951-620-01	SCREW (2.6X8), +BVTP	
154	8-848-144-11	DEVICE, OPTICAL KSS-240A		M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
155	4-917-567-01	GEAR (M)		M102	X-4917-504-1	MOTOR ASSY (SLED)	

SECTION 6

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : metal-film resistor.
METAL OXIDE : Metal oxide-film resistor.
F : nonflammable

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

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

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

Ref. No.	Parts No.	Description	Remark	Ref. No.	Parts No.	Description	Remark
*	1-646-970-11	LOADING BOARD *****		C304	1-164-159-11	CERAMIC	0.1uF 50V
		< CONNECTOR >		C305	1-126-059-11	ELECT	10uF 20% 50V
*CN151	1-568-943-11	PIN, CONNECTOR 5P < SWITCH >		C307	1-161-494-00	CERAMIC	0.022uF 25V
S151	1-572-086-11	SWITCH, LEAF (LOAD OUT)		C308	1-162-290-31	CERAMIC	470PF 10% 50V
S152	1-572-086-11	SWITCH, LEAF (LOAD IN)		C309	1-161-494-00	CERAMIC	0.022uF 25V
*****				C310	1-124-910-11	ELECT	47uF 20% 50V
*	A-4649-578-A	MAIN BOARD, COMPLETE (711)		C311	1-162-306-11	CERAMIC	0.01uF 20% 16V
*	A-4649-659-A	MAIN BOARD, COMPLETE (711E) *****		C312	1-164-159-11	CERAMIC	0.1uF 50V
		< CAPACITOR >		C313	1-124-910-11	ELECT	47uF 20% 50V (711)
*	3-309-144-21	HEAT SINK (711)		C313	1-124-748-11	ELECT	100uF 25V (711E)
*	4-941-237-01	HEAT SINK (711E)		C314	1-164-159-11	CERAMIC	0.1uF 50V
	7-685-871-01	SCREW +BVT 3X6 (S) (711)		C315	1-162-196-31	CERAMIC	5.6PF 10% 50V
*	7-682-547-09	SCREW +B 3X6 (711E)		C316	1-162-196-31	CERAMIC	5.6PF 10% 50V
		< CAPACITOR >		C317	1-161-494-00	CERAMIC	0.022uF 25V
C201	1-124-572-11	ELECT	100uF 20% 63V	C318	1-162-290-31	CERAMIC	470PF 10% 50V
C202	1-126-059-11	ELECT	10uF 20% 50V	C501	1-161-494-00	CERAMIC	0.022uF 25V
C203	1-126-013-11	ELECT	1000uF 20% 16V	C502	1-124-478-11	ELECT	100uF 20% 25V
C204	1-126-016-11	ELECT	4700uF 20% 16V	C503	1-102-497-91	CERAMIC	91PF 5% 50V
C205	1-124-997-11	ELECT	470uF 20% 10V (711)	C504	1-130-495-00	MYLAR	0.1uF 5% 50V
C205	1-124-478-11	ELECT	100uF 25V (711E)	C505	1-162-215-31	CERAMIC	47PF 5% 50V
C206	1-124-997-11	ELECT	470uF 20% 10V	C506	1-162-215-31	CERAMIC	47PF 5% 50V
C207	1-126-101-11	ELECT	100uF 20% 16V	C507	1-130-479-00	MYLAR	0.0047uF 5% 50V
C208	1-126-163-11	ELECT	4.7uF 20% 50V	C508	1-130-472-00	MYLAR	0.0012uF 5% 50V
C209	1-126-059-11	ELECT	10uF 20% 50V	C509	1-124-918-11	ELECT	47uF 20% 63V (711)
C210	1-126-059-11	ELECT	10uF 20% 50V	C509	1-123-388-00	ELECT	100uF 20% 100V (711E)
C211	1-124-997-11	ELECT	470uF 20% 10V	C510	1-102-497-91	CERAMIC	91PF 5% 50V (711)
C212	1-124-997-11	ELECT	470uF 20% 10V (711)	C511	1-161-494-00	CERAMIC	0.022uF 25V
C212	1-126-052-11	ELECT	100uF 50V (711E)	C512	1-107-169-00	MICA	100PF 5% 500V (711E)
C213	1-161-494-00	CERAMIC	0.022uF 25V (711)	C551	1-164-159-11	CERAMIC	0.1uF 50V
C213	1-164-159-11	CERAMIC	0.1uF 50V (711E)	C601	1-161-494-00	CERAMIC	0.022uF 25V
C214	1-161-494-00	CERAMIC	0.022uF 25V	C602	1-124-478-11	ELECT	100uF 20% 25V
C215	1-164-159-11	CERAMIC	0.1uF 50V	C603	1-102-497-91	CERAMIC	91PF 5% 50V
C301	1-164-159-11	CERAMIC	0.1uF 50V	C604	1-130-495-00	MYLAR	0.1uF 5% 50V
C302	1-162-306-11	CERAMIC	0.01uF 20% 16V	C605	1-162-215-31	CERAMIC	47PF 5% 50V
C303	1-161-494-00	CERAMIC	0.022uF 25V	C606	1-162-215-31	CERAMIC	47PF 5% 50V
				C607	1-130-479-00	MYLAR	0.0047uF 5% 50V
				C608	1-130-472-00	MYLAR	0.0012uF 5% 50V
				C609	1-124-918-11	ELECT	47uF 20% 63V (711)
				C609	1-123-388-00	ELECT	100uF 20% 100V (711E)
				C610	1-102-497-91	CERAMIC	91PF 5% 50V (711)
				C611	1-161-494-00	CERAMIC	0.022uF 25V

MAIN

Ref. No.	Parts No.	Description	Remark	Ref. No.	Parts No.	Description	Remark
C612	1-107-169-00	MICA	100PF 5% 500V (711E)	Q208	8-729-019-64	TRANSISTOR	2SB1041
C651	1-164-159-11	CERAMIC	0.1uF 50V	Q301	8-729-900-65	TRANSISTOR	DTA144ES
< CONNECTOR >				Q501	8-729-900-65	TRANSISTOR	DTA144ES
*CN201	1-564-510-11	PLUG, CONNECTOR 7P		Q502	8-729-231-55	TRANSISTOR	2SC2878-AB
CN301	1-695-874-21	CONNECTOR, FFC/FPC 25P		Q503	8-729-900-74	TRANSISTOR	DTC143TS
*CN302	1-568-839-11	SOCKET, CONNECTOR 23P		Q504	8-729-900-74	TRANSISTOR	DTC143TS
*CN303	1-568-830-11	SOCKET, CONNECTOR 11P		Q601	8-729-900-65	TRANSISTOR	DTA144ES
*CN304	1-568-954-11	PIN, CONNECTOR 5P		Q602	8-729-231-55	TRANSISTOR	2SC2878-AB
< DIODE >				Q603	8-729-900-74	TRANSISTOR	DTC143TS
D201	8-719-200-82	DIODE	11ES2	Q604	8-729-900-74	TRANSISTOR	DTC143TS
D202	8-719-110-03	DIODE	RD7. 5ESB2	< RESISTOR >			
D203	8-719-200-82	DIODE	11ES2	R201	1-249-435-11	CARBON	33K 5% 1/4W
D204	8-719-200-82	DIODE	11ES2	R202	1-249-438-11	CARBON	56K 5% 1/4W
D205	8-719-200-82	DIODE	11ES2	R203	1-249-429-11	CARBON	10K 5% 1/4W
D206	8-719-200-82	DIODE	11ES2	R204	1-249-390-11	CARBON	5.6 5% 1/6W F
D207	8-719-987-63	DIODE	1N4148M	R205	1-249-390-11	CARBON	5.6 5% 1/6W F
D208	8-719-109-89	DIODE	RD5. 6ESB2	R206	1-249-425-11	CARBON	4.7K 5% 1/4W F
D209	8-719-987-63	DIODE	1N4148M	R207	1-249-425-11	CARBON	4.7K 5% 1/4W F
D210	8-719-110-78	DIODE	RD33ESB2	R208	1-249-417-11	CARBON	1K 5% 1/4W F
D301	8-719-987-63	DIODE	1N4148M	R209	1-249-423-11	CARBON	3.3K 5% 1/4W F
D302	8-719-109-75	DIODE	RD4. 3ESB2	R210	1-249-429-11	CARBON	10K 5% 1/4W
< IC >				R211	1-249-410-11	CARBON	270 5% 1/4W F
IC201	8-759-630-21	IC	M5290P-16	R212	1-249-413-11	CARBON	470 5% 1/4W F
IC202	8-759-605-00	IC	M5F78M07L	R213	1-249-417-11	CARBON	1K 5% 1/4W F (711)
IC203	8-759-145-58	IC	uPC4558C	R213	1-249-441-11	CARBON	100K 1/4W (711E)
IC301	8-752-360-60	IC	CXD2565M-1	R214	1-249-425-11	CARBON	4.7K 5% 1/4W F
IC302	8-759-900-72	IC	NE5532P	R215	1-249-425-11	CARBON	4.7K 5% 1/4W F
IC303	8-759-900-72	IC	NE5532P	R301	1-249-405-11	CARBON	100 5% 1/4W F
IC304	8-759-167-88	IC	NJM4565D	R302	1-249-418-11	CARBON	1.2K 5% 1/4W F
IC305	8-749-921-12	IC	GP1F32T	R303	1-249-413-11	CARBON	470 5% 1/4W F
IC306	8-759-822-09	IC	LB1641	R304	1-249-417-11	CARBON	1K 5% 1/4W F
< JACK >				R305	1-249-417-11	CARBON	1K 5% 1/4W F
*J361	1-569-443-11	JACK, PIN 4P (LINE OUT)		R306	1-249-417-11	CARBON	1K 5% 1/4W F
< COIL >				R307	1-249-417-11	CARBON	1K 5% 1/4W F
L301	1-408-403-00	INDUCTOR	3.3uH	R309	1-249-429-11	CARBON	10K 5% 1/4W
L302	1-408-403-00	INDUCTOR	3.3uH	R310	1-249-441-11	CARBON	100K 5% 1/4W
L303	1-410-970-11	INDUCTOR	6.8uH	R311	1-249-425-11	CARBON	4.7K 5% 1/4W F
< TRANSISTOR >				R312	1-249-405-11	CARBON	100 5% 1/4W F
Q201	8-729-119-76	TRANSISTOR	2SA1175-HFE	R501	1-249-436-11	CARBON	39K 5% 1/4W
Q202	8-729-140-96	TRANSISTOR	2SD774-34	R502	1-249-436-11	CARBON	39K 5% 1/4W
Q203	8-729-141-83	TRANSISTOR	2SB1094-LK	R503	1-249-431-11	CARBON	15K 5% 1/4W
Q204	8-729-281-52	TRANSISTOR	2SC1815-Y	R504	1-249-431-11	CARBON	15K 5% 1/4W
Q205	8-729-900-65	TRANSISTOR	DTA144ES	R505	1-249-437-11	CARBON	47K 5% 1/4W
Q206	8-729-900-89	TRANSISTOR	DTC144ES	R506	1-249-437-11	CARBON	47K 5% 1/4W
Q207	8-729-900-89	TRANSISTOR	DTC144ES	R507	1-249-419-11	CARBON	1.5K 5% 1/4W F
				R508	1-249-419-11	CARBON	1.5K 5% 1/4W F
				R509	1-249-409-11	CARBON	220 5% 1/4W F
				R510	1-247-891-00	CARBON	330K 5% 1/4W
				R511	1-249-409-11	CARBON	220 5% 1/4W F
				R512	1-249-393-11	CARBON	10 5% 1/4W F

Ref. No.	Parts No.	Description			Remark
R513	1-249-411-11	CARBON	330	5%	1/4W
R514	1-249-411-11	CARBON	330	5%	1/4W
R515	1-249-425-11	CARBON	4.7K	5%	1/4W F
R516	1-249-441-11	CARBON	100K	5%	1/4W
R551	1-249-435-11	CARBON	33K	5%	1/4W
R552	1-249-429-11	CARBON	10K	5%	1/4W
R553	1-249-435-11	CARBON	33K	5%	1/4W
R554	1-249-435-11	CARBON	33K	5%	1/4W
R601	1-249-436-11	CARBON	39K	5%	1/4W
R602	1-249-436-11	CARBON	39K	5%	1/4W
R603	1-249-431-11	CARBON	15K	5%	1/4W
R604	1-249-431-11	CARBON	15K	5%	1/4W
R605	1-249-437-11	CARBON	47K	5%	1/4W
R606	1-249-437-11	CARBON	47K	5%	1/4W
R607	1-249-419-11	CARBON	1.5K	5%	1/4W F
R608	1-249-419-11	CARBON	1.5K	5%	1/4W F
R609	1-249-409-11	CARBON	220	5%	1/4W F
R610	1-247-891-00	CARBON	330K	5%	1/4W
R611	1-249-409-11	CARBON	220	5%	1/4W F
R612	1-249-393-11	CARBON	10	5%	1/4W F
R613	1-249-411-11	CARBON	330	5%	1/4W
R614	1-249-411-11	CARBON	330	5%	1/4W
R615	1-249-425-11	CARBON	4.7K	5%	1/4W F
R616	1-249-441-11	CARBON	100K	5%	1/4W
R651	1-249-435-11	CARBON	33K	5%	1/4W
R652	1-249-429-11	CARBON	10K	5%	1/4W
R653	1-249-435-11	CARBON	33K	5%	1/4W
R654	1-249-435-11	CARBON	33K	5%	1/4W
< VIBRATOR >					
X301	1-579-834-11	VIBRATOR, CRYSTAL (33MHz)			

* A-4649-579-A	DISP BOARD, COMPLETE				

< CAPACITOR >					
C401	1-164-159-11	CERAMIC	0.1uF		50V
C402	1-126-154-11	ELECT	47uF	20%	6.3V
C403	1-164-159-11	CERAMIC	0.1uF		50V
C404	1-161-494-00	CERAMIC	0.022uF		25V
C405	1-161-494-00	CERAMIC	0.022uF		25V
< CONNECTOR >					
CN401	1-695-874-21	CONNECTOR, FFC/FPC 25P			
CN403	1-750-194-11	CONNECTOR 4P			
< FLUORECENT INDICATOR >					
FLD401	1-519-757-11	INDICATOR TUBE, FLUORESCENT			
< IC >					

Ref. No.	Parts No.	Description			Remark
IC401	8-752-839-98	IC	CXP82316-007Q		
IC402	8-741-100-48	IC	SBX1610-59		
< TRANSISTOR >					
Q401	8-729-900-80	TRANSISTOR	DTC114ES		
< RESISTOR >					
R401	1-249-425-11	CARBON	4.7K	5%	1/4W F
R402	1-249-425-11	CARBON	4.7K	5%	1/4W F
R403	1-249-425-11	CARBON	4.7K	5%	1/4W F
R404	1-249-441-11	CARBON	100K	5%	1/4W
R405	1-249-429-11	CARBON	10K	5%	1/4W
R407	1-249-428-11	CARBON	8.2K	5%	1/4W F
R408	1-249-428-11	CARBON	8.2K	5%	1/4W F
R409	1-249-428-11	CARBON	8.2K	5%	1/4W F
R410	1-249-428-11	CARBON	8.2K	5%	1/4W F
R411	1-249-428-11	CARBON	8.2K	5%	1/4W F
R412	1-249-428-11	CARBON	8.2K	5%	1/4W F
R413	1-249-428-11	CARBON	8.2K	5%	1/4W F
R414	1-249-428-11	CARBON	8.2K	5%	1/4W F
R415	1-249-418-11	CARBON	1.2K	5%	1/4W F
R416	1-247-836-11	CARBON	1.6K	5%	1/4W
R417	1-249-418-11	CARBON	1.2K	5%	1/4W F
R418	1-247-836-11	CARBON	1.6K	5%	1/4W
R419	1-249-421-11	CARBON	2.2K	5%	1/4W F
R420	1-249-423-11	CARBON	3.3K	5%	1/4W F
R421	1-249-418-11	CARBON	1.2K	5%	1/4W F
R422	1-247-836-11	CARBON	1.6K	5%	1/4W
R423	1-249-421-11	CARBON	2.2K	5%	1/4W F
R424	1-249-423-11	CARBON	3.3K	5%	1/4W F
R425	1-249-426-11	CARBON	5.6K	5%	1/4W
R426	1-247-856-00	CARBON	11K	5%	1/4W
R427	1-249-418-11	CARBON	1.2K	5%	1/4W F
R428	1-247-836-11	CARBON	1.6K	5%	1/4W
R429	1-249-421-11	CARBON	2.2K	5%	1/4W F
R430	1-249-423-11	CARBON	3.3K	5%	1/4W F
R431	1-249-426-11	CARBON	5.6K	5%	1/4W
R432	1-247-856-00	CARBON	11K	5%	1/4W
R433	1-249-435-11	CARBON	33K	5%	1/4W
R449	1-249-409-11	CARBON	220	5%	1/4W F
< SWITCH >					
S401	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)			
S402	1-570-157-51	SWITCH, SLIDE (TIMER)			
S403	1-554-303-21	SWITCH, TACTILE (>)			
S404	1-554-303-21	SWITCH, TACTILE (△ OPEN/CLOSE)			
S405	1-554-303-21	SWITCH, TACTILE (■)			
S406	1-554-303-21	SWITCH, TACTILE (■)			
S407	1-554-303-21	SWITCH, TACTILE (K<<)			
S408	1-554-303-21	SWITCH, TACTILE (>>)			

DISP	FUNCTION	H. P.	MOTOR VOL
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Ref. No.	Parts No.	Description	Remark
S409	1-554-303-21	SWITCH, TACTILE (▶▶)	
S410	1-554-303-21	SWITCH, TACTILE (◀◀)	
S411	1-554-303-21	SWITCH, TACTILE (PEAK SERCH)	
S412	1-554-303-21	SWITCH, TACTILE (EDIT/TIME FADE)	
S413	1-554-303-21	SWITCH, TACTILE (11)	
S414	1-554-303-21	SWITCH, TACTILE (16)	
S415	1-554-303-21	SWITCH, TACTILE (17)	
S416	1-554-303-21	SWITCH, TACTILE (12)	
S417	1-554-303-21	SWITCH, TACTILE (7)	
S418	1-554-303-21	SWITCH, TACTILE (FADER)	
S419	1-554-303-21	SWITCH, TACTILE (REPEAT)	
S420	1-554-303-21	SWITCH, TACTILE (TIME)	
S421	1-554-303-21	SWITCH, TACTILE (MUSIC SCAN)	
S422	1-554-303-21	SWITCH, TACTILE (1)	
S423	1-554-303-21	SWITCH, TACTILE (A. SPACE/A. CUEE)	
S424	1-554-303-21	SWITCH, TACTILE (6)	
S425	1-554-303-21	SWITCH, TACTILE (2)	
< VIBRATOR >			
X401	1-579-175-11	VIBRATOR, CERAMIC (10MHz)	

*	A-4649-580-A	FUNCTION BOARD, COMPLETE	

< CONNECTOR >			
CN404	1-750-185-11	CONNECTOR 4P	
< RESISTOR >			
R434	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R435	1-247-836-11	CARBON 1.6K 5% 1/4W	
R436	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R437	1-249-423-11	CARBON 3.3K 5% 1/4W F	
R438	1-249-426-11	CARBON 5.6K 5% 1/4W	
R439	1-247-856-00	CARBON 11K 5% 1/4W	
R440	1-249-435-11	CARBON 33K 5% 1/4W	
R441	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R442	1-247-836-11	CARBON 1.6K 5% 1/4W	
R443	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R444	1-249-423-11	CARBON 3.3K 5% 1/4W F	
R445	1-249-426-11	CARBON 5.6K 5% 1/4W	
R446	1-247-856-00	CARBON 11K 5% 1/4W	
R447	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R448	1-247-836-11	CARBON 1.6K 5% 1/4W	
< SWITCH >			
S426	1-554-303-21	SWITCH, TACTILE (19)	
S427	1-554-303-21	SWITCH, TACTILE (14)	
S428	1-554-303-21	SWITCH, TACTILE (9)	
S429	1-554-303-21	SWITCH, TACTILE (4)	
S430	1-554-303-21	SWITCH, TACTILE (3)	

Ref. No.	Parts No.	Description	Remark
S431	1-554-303-21	SWITCH, TACTILE (8)	
S432	1-554-303-21	SWITCH, TACTILE (13)	
S433	1-554-303-21	SWITCH, TACTILE (18)	
S434	1-554-303-21	SWITCH, TACTILE (CLEAR)	
S435	1-554-303-21	SWITCH, TACTILE (CHECK)	
S436	1-554-303-21	SWITCH, TACTILE (720)	
S437	1-554-303-21	SWITCH, TACTILE (5)	
S438	1-554-303-21	SWITCH, TACTILE (10)	
S439	1-554-303-21	SWITCH, TACTILE (15)	
S440	1-554-303-21	SWITCH, TACTILE (20)	
S441	1-554-303-21	SWITCH, TACTILE (COUTINUE)	
S442	1-554-303-21	SWITCH, TACTILE (SHUFFLE)	
S443	1-554-303-21	SWITCH, TACTILE (PROGRAM)	

*	1-645-835-11	H.P. BOARD	

< CAPACITOR >			
C381	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C382	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C383	1-161-494-00	CERAMIC 0.022uF 25V	
< JACK >			
J382	1-568-519-41	JACK, LARGE TYPE (PHONES)	
< RESISTOR >			
R381	1-249-402-11	CARBON 56 5% 1/4W F	
R382	1-249-402-11	CARBON 56 5% 1/4W F	

*	1-645-836-11	MOTOR VOL BOARD	

*	4-922-980-01	HOLDER (LED)	
< CAPACITOR >			
C471	1-124-994-11	ELECT 100uF 20% 10V	
C472	1-161-494-00	CERAMIC 0.022uF 25V	
< CONNECTOR >			
*CN391	1-568-854-11	SOCKET, CONNECTOR 11P	
*CN471	1-568-943-11	PIN, CONNECTOR 5P	
< DIODE >			
D471	8-719-970-49	DIODE BR4361F	
< IC >			
IC471	8-759-962-08	IC BA6208	
< RESISTOR >			

Ref. No.	Parts No.	Description	Remark
R471	1-249-417-11	CARBON 1K 5%	1/4W F
R472	1-249-417-11	CARBON 1K 5%	1/4W F
< VARIABLE RESISTOR >			
RV391	1-238-974-11	RES, VAR, CARBON 10K/10K (LEVEL OUT/PHONE LEVEL)	

*	1-645-837-11	POWER BOARD *****	
< CAPACITOR >			
C701	1-164-159-11	CERAMIC 0.1uF	50V
C702	1-161-494-00	CERAMIC 0.022uF	25V
C703	1-161-494-00	CERAMIC 0.022uF	25V
C704	1-161-494-00	CERAMIC 0.022uF	25V
< CONNECTOR >			
*CN701	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P	
< TRANSFORMER >			
T701	1-423-518-11	TRANSFORMER, POWER (E/EA) (MADE IN JAPAN)	
T701	1-423-604-11	TRANSFORMER, POWER (711E)	
T701	1-449-922-11	TRANSFORMER, POWER (AEP, AUS) (MADE IN JAPAN)	
T701	1-449-925-11	TRANSFORMER, POWER (AEP) (MADE IN FRANCE)	
< SWITCH >			
SW701	1-571-722-11	SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR) (E/EA)	

MISCELLANEOUSL *****			
*	1-452-538-11	MAGNET	
	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
	1-696-759-11	WIRE (FLAT TYPE) (25 CORE)	
	1-696-761-11	WIRE (FLAT TYPE) (11 CORE)	
	1-696-760-11	WIRE (FLAT TYPE) (23 CORE)	
	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
	1-569-008-11	ADAPTER, CONVERSION 2P (EA)	
	8-848-144-11	DEVICE, OPTICAL KSS-240A	
CNP901	1-696-027-11	CORD, POWER (E)	
CNP901	1-696-845-11	CORD, POWER (AUS)	
CNP901	1-696-907-11	CORD, POWER (711E)	
CNP901	1-575-651-21	CORD, POWER (AEP, EA, G) (MADE IN FRANCE)	
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	

Ref. No.	Parts No.	Description	Remark
ACCESSORY & PACKING MATERIAL *****			
	1-465-594-11	REMOTE COMMANDER (RM-D791)	
	1-558-271-11	CORD, CONNECTION (711)	
	1-590-925-31	CORD, CONNECTION (711E)	
	3-707-584-01	COVER, BATTERY	
	3-756-109-11	MANUAL, INSTRUCTION (E, AUS) (ENGLISH, FRENCH, SPANISH, CHINESE)	
	3-756-109-51	MANUAL, INSTRUCTION (AEP, UK) (ENGLISH, FRENCH, SPANISH)	
	3-756-109-61	MANUAL, INSTRUCTION (AEP) (GERMAN, ITALIAN, DUTCH, PORTUGUESE)	
	3-756-109-81	MANUAL, INSTRUCTION (GERMANY) (GERMAN)	
	4-941-925-01	CUSHION	
*	4-955-664-21	INDIVIDUAL CARTON (711) (MADE IN FRANCE)	
	4-955-664-41	INDIVIDUAL CARTON (711E)	
*	4-956-947-41	INDIVIDUAL CARTON (711) (MADE IN JAPAN)	

HARDWARE LIST

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#2	7-685-871-01	SCREW +BVTT 3X6 (S)
#3	7-682-548-09	SCREW +BVTT 3X8 (S)
#4	7-621-255-15	SCREW +P 2X3
#5	7-685-871-01	SCREW +B 3X6 (S) (CZN-N)

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

