

CDP-X202ES

SERVICE MANUAL

F010

US Model
Canadian Model
AEP Model
E Model
Australian Model



Model Name Using Similar Mechanism	NEW
CD Mechanism Type	CDM25-5BD10
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 \pm 0.3 dB
Signal-to-noise ratio	More than 116 dB
Dynamic range	More than 100 dB
Harmonic distortion	Less than 0.0023 %
Channel separation	More than 110 dB

Outputs

LINE OUT (FIXED)	Output level 2 V (at 50 kilo-ohms) Load impedance over 10 kilo-ohms
LINE OUT (VARIABLE)	Output level max. 2 V (at 50 kilo-ohms) Load impedance over 50 kilo-ohms
DIGITAL OUT (OPTICAL)	Wave length 660 nm Output level -18 dBm
PHONES (stereo phone jack)	Output level max. 28 mW Load impedance 32 ohms

General

Power requirements	
Continental European model:	220 V - 230 V AC, 50/60 Hz
Canadian model:	120 V AC, 60 Hz
UK and Australian model:	240 V AC, 50 Hz
Other country models:	110 - 120 or 220 - 240 V AC, 50/60 Hz
Power consumption	16 W

Dimensions (approx., including projections)

430 x 110 x 340 mm (w/h/d)
(17 x 4 ³/₈ x 13 ¹/₂ inches)

Mass (approx.) 5.8 kg (12 lbs 13 oz)

Remote commander

Remote control system Infrared control
Power requirements 3 V DC with two R6 (size AA) batteries

Dimensions (approx., including projections)

62 x 17 x 175 mm (w/h/d)
(2 ¹/₂ x ²³/₃₂ x 7 inches)

Mass (approx.) 135 g (5 oz)

Design and specifications are subject to change without notice.



COMPACT DISC PLAYER
SONY[®]

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

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

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

The following caution label is located in the side of the unit.

CAUTION	: INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM
ADVARSEL	: USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSÅFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSÆTTELSE FOR STRÅLING
VARO!	: AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE
VARNING	: LASERSTRÅLING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD
ADVARSEL	: USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN

For the customers in Canada

CAUTION



TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

THIS APPARATUS COMPLIES WITH THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS SET OUT IN RADIO INTERFERENCE REGULATIONS.


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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.

ATTENTION AU COMPOSANT AYANT RAPPORT À 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.

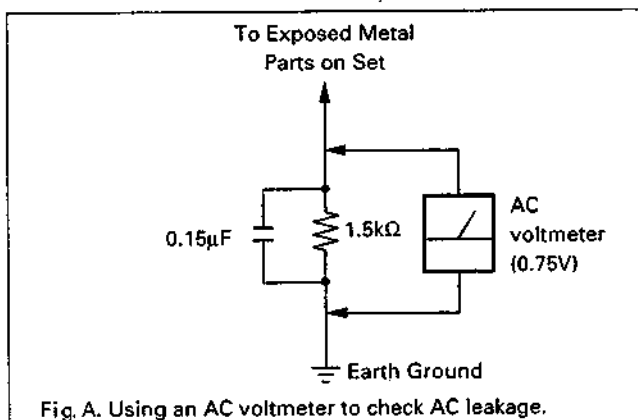
SAFETY CHECK-OUT

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

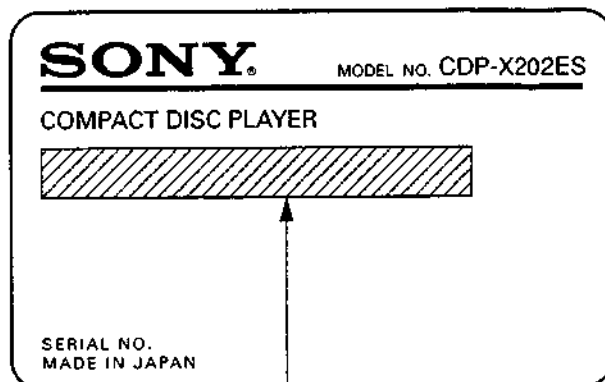
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microamperes). Leakage current can be measured by any one of three methods.

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)



MODEL IDENTIFICATION

- SPECIFICATION LABEL -



US, Canadian MODEL : AC120V, 60Hz, 16W
 Australian MODEL : AC240V, 50Hz,
 AEP Model : AC220 — 230V, 50/60Hz, 16W
 E MODEL : AC110 — 120V, 220 — 240V, 50/60Hz, 16W

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

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts. The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

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

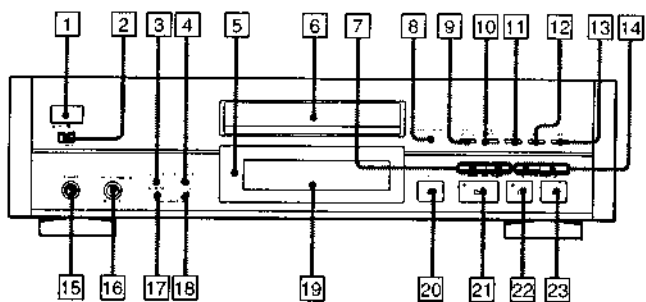
SECTION 1 GENERAL

This section is extracted from instruction manual.

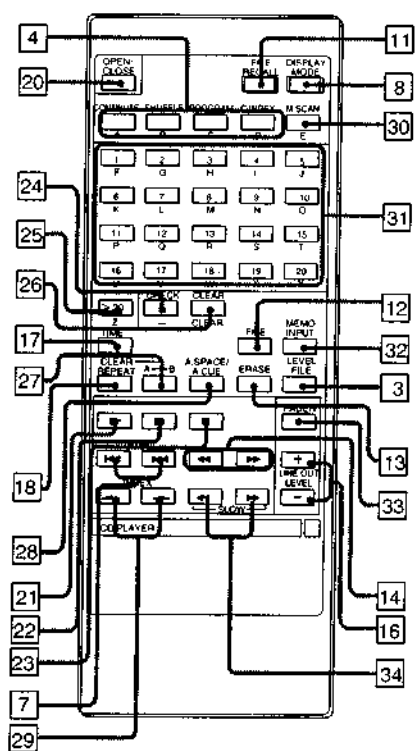
Identifying the Parts

Refer to the pages indicated in parentheses for details.

Front Panel/ Remote Commander



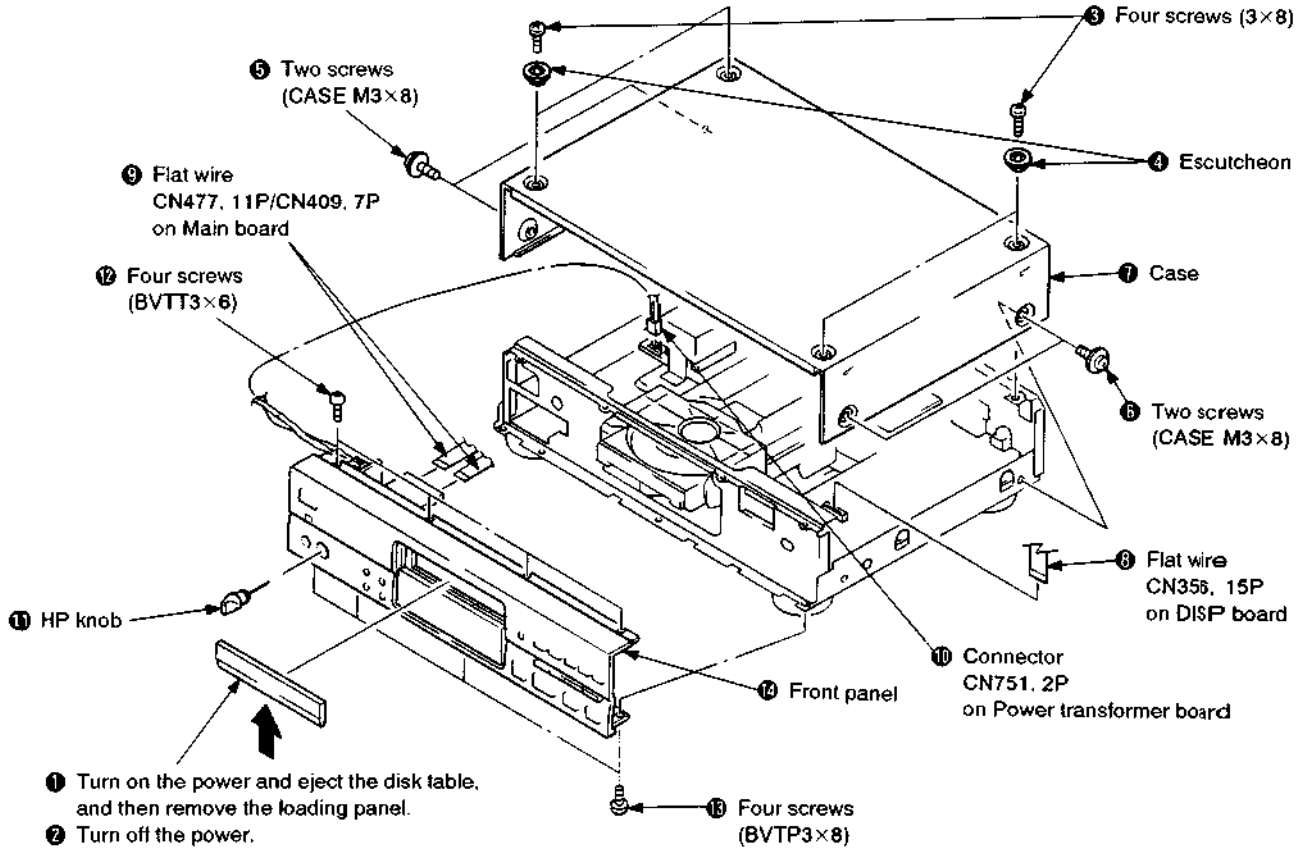
- 1 POWER switch (18)
- 2 TIMER switch (92)
- 3 LEVEL FILE button (90)
- 4 PLAY MODE button
 - On the remote commander:
 - CONTINUE button (18)
 - SHUFFLE button (28)
 - PROGRAM button (34, 48)
 - C.INDEX button (76)
- 5 Remote sensor
- 6 Disc tray
- 7 ◀▶ (AMS*) buttons (22)
- 8 DISPLAY MODE button (20)
- 9 EDIT/TIME FADE button (58, 64)
- 10 PEAK SEARCH button (66)
- 11 FILE RECALL button (84, 88)
- 12 FILE (custom file) button (70, 74, 76, 82, 86)
- 13 ERASE button (80, 84, 88)
- 14 ◀▶▶▶ (manual search) buttons (24)
- 15 PHONES jack (18)
- 16 LINE OUT/PHONE LEVEL control (18, 90)
 - (LINE OUT LEVEL +/- buttons on the remote commander)
- 17 TIME/MEMO button (20)
- 18 REPEAT button (40)
- 19 Display
- 20 ▲ OPEN/CLOSE button (18)
- 21 ▶ (play) button and indicator (18)
- 22 || (pause) button and indicator (18)
- 23 ■ (stop) button (18)
- 24 CHECK (program check) button (36)
- 25 >20 button (22)
- 26 CLEAR button (30, 32, 34, 36)
- 27 A↔B button (42)
- 28 A.SPACE/A.CUE button (26)
- 29 ←/→ INDEX buttons (24, 78)
- 30 M.SCAN button (38)
- 31 Numeric buttons (22)
- 32 MEMO INPUT button (72)
- 33 FADER button (44)
- 34 ◀▶▶▶ SLOW buttons (24)



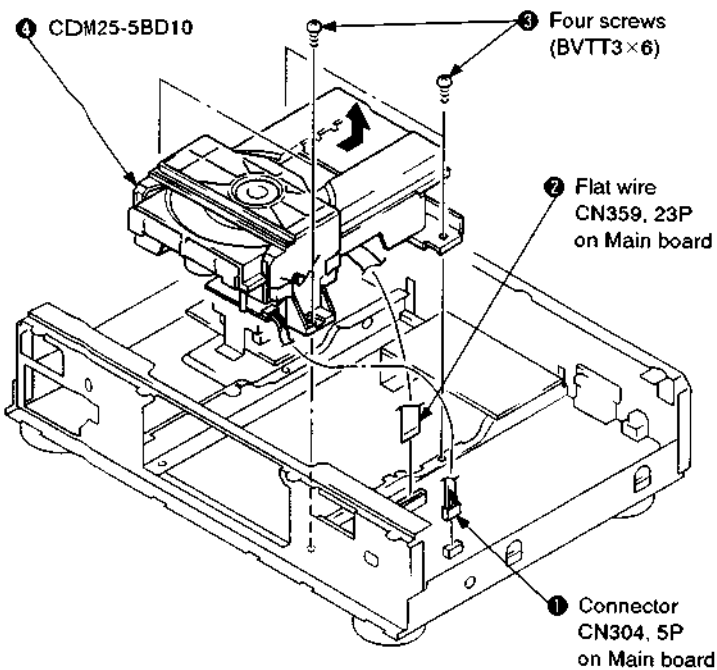
* AMS is the abbreviation of Automatic Music Sensor.

SECTION 2 DISASSEMBLY

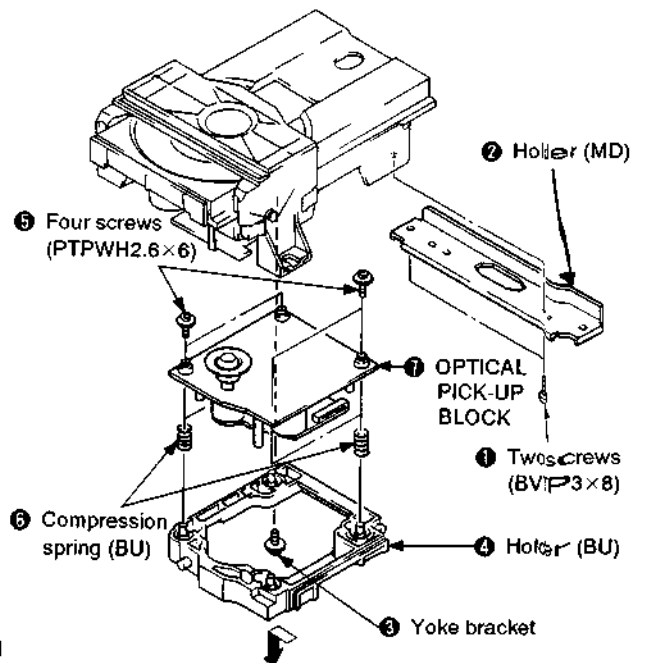
2-1. REMVAL OF FRONT PANEL AND CASE ASSEMBLIES



2-2. REMVAL OF CDM25-5BD10



2-3. REMVAL OF OPTICAL PICK-UP BLOCK ASSEMBLY

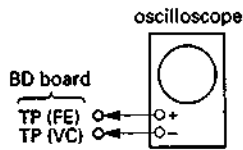


SECTION 3 ELECTRICAL BLOCK CHECKING

Note :

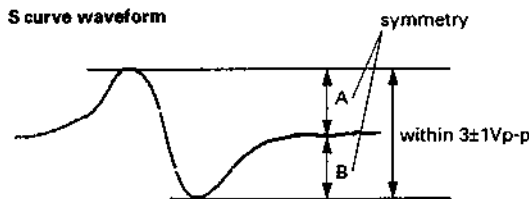
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal 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 $3 \pm 1 V_{p-p}$.

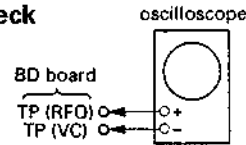


5. After check, remove the lead wire connected in step 2.

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

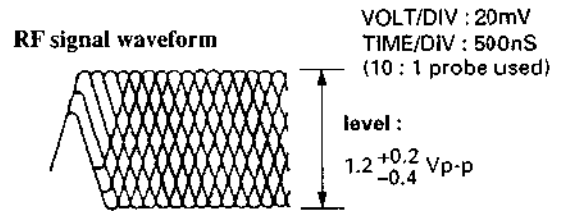


Procedure :

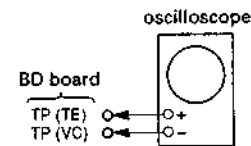
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

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



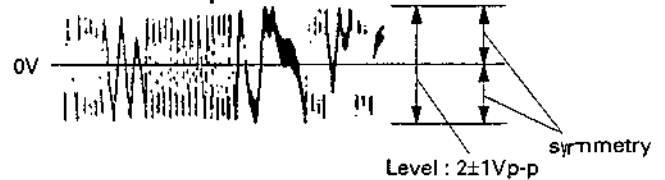
E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) (on main board) 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.

Traverse oscilloscope



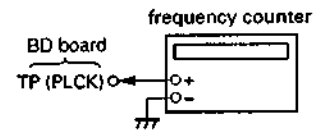
6. Remove the lead wire connected in step 1.

SECTION 4 IC PIN FUNCTIONS

RF PLL Free-run Frequency Check

Procedure :

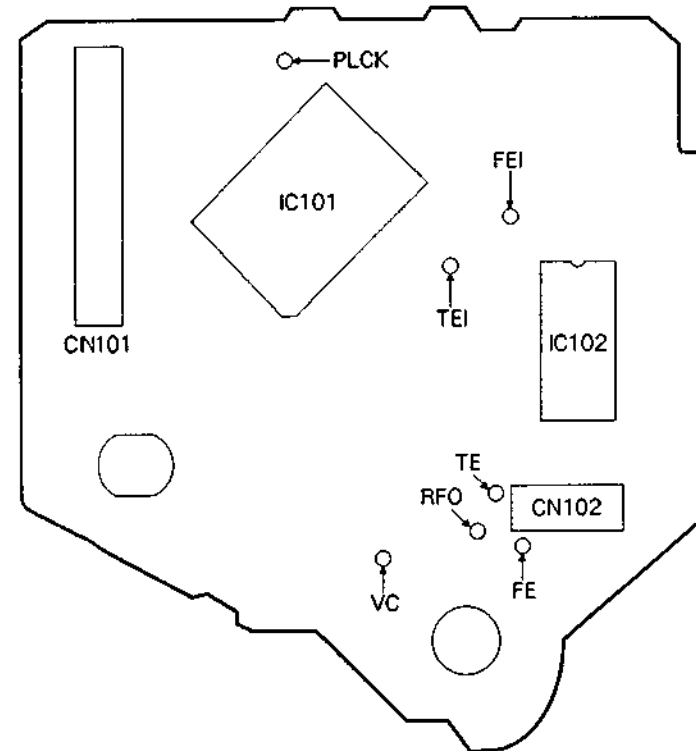
1. Connect frequency counter to test point (PLCK) with lead wire.



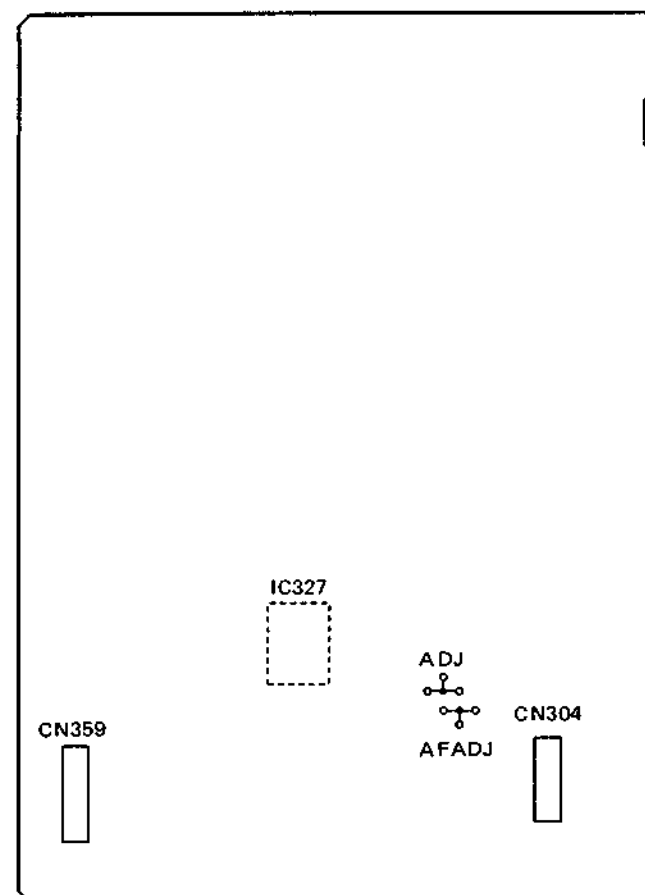
2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

Checking Location :

[BD BOARD] – Conductor Side –



[MAIN BOARD] – Component Side –



• IC327 main system controller (M37451M8-334FP)

Functions effected by the captioned controller include IC101 (RF signal processing, servo, DSP), and loading control in the CD unit, data exchange with IC801 (Display, key control), audio bus entry, etc.

Pin No.	Pin Name	I/O	Description
1,2	N.C.	–	No connection
3	CNIN	I	Count input from CXD2515Q (IC101)
4	QINT	O	Command output pulse output terminal
5	M/F	I/O	Master/File command select input/output
6	SACK	O	Command acknowledge output
7	MREQ	I	Command request input
8–11	CMD3–CMD0	I/O	Master micro-computer inter-face 3-0
12	CLK	O	Data clock signal output to CXD2515Q (IC101)
13	XLT	O	Data latch pulse signal output to CXD2515Q (IC101)
14	DATA	O	Data signal output to CXD2515Q (IC101)
15	ATT	O	Attenuate data signal output to CXD2567M (IC301)
16	SHIFT	O	Attenuate data clock signal output to CXD2567M (IC301)
17	LATCH	O	Attenuate data latch pulse signal output to CXD2567M (IC301)
18	LDON	O	Laser diode ON/OFF signal output
19	SCOR	I	SCOR signal input from CXD2515Q (IC101)
20–24	N.C.	–	No connection
25	CNVSS	–	Power terminal (GND)
26	RESET	I	Reset signal input
27	N.C.	–	No connection
28	XIN	I	Clock input (10 MHz)
29	XOUT	O	Clock output
30,31	N.C.	–	No connection
32	GND	–	Power terminal (GND)
33	N.C.	–	No connection
34	MUTE	O	Muting signal output (Digital mute)
35	WE	O	Write enable output to 64k-bit static RAM (IC325)
36–40	A12–A8	O	Address output to 64k-bit static RAM (IC325)
41	N.C.	–	No connection
42–49	A7–A0	O	Address output to 64k-bit static RAM (IC325)
50–57	D7–D0	I/O	Data input and output to 64k-bit static RAM (IC325)
58	SENSE	I	Sense signal input from CXD2515Q (IC101)
59	GFS	I	GFS monitor input from CXD2515Q (IC101)
60	FOK	I	FOK monitor input from CXD2515Q (IC101)
61	ADJ	I	Test mode terminal ("L": test mode)
62	AFADJ	I	Test mode terminal for adjustment ("L": test mode)
63	INSW	I	Loading-in switch input
64	OUTSW	I	Loading-out switch output
65	VLEVEL	I	Remote control volume level input
66	VOLUP	O	Remote control volume control output (Volume up)
67	VOLDWN	O	Remote control volume control output (Volume down)
68,69	VREF	–	Power terminal (+5V)
70	AVSS	–	Power terminal (GND)
71	AVCC	–	Power terminal (+5V)
72	VCC	–	Power terminal (+5V)
73	GND	–	Power terminal (GND)

Pin No.	Pin Name	I/O	Description
74	SCLK	O	Read data clock signal output to CXD2515Q (IC101)
75	SQCK	O	Read data sub code clock output to CXD2515Q (IC101)
76	VOLLED	O	Remote control volume LED output
77	SUBQ	I	Sub code data input to CXD2515Q (IC101)
78	LODIN	O	Loading motor drive signal output (Load-in)
79	LODOUT	O	Loading motor drive signal output (Load-out)
80	N.C.	-	No connection

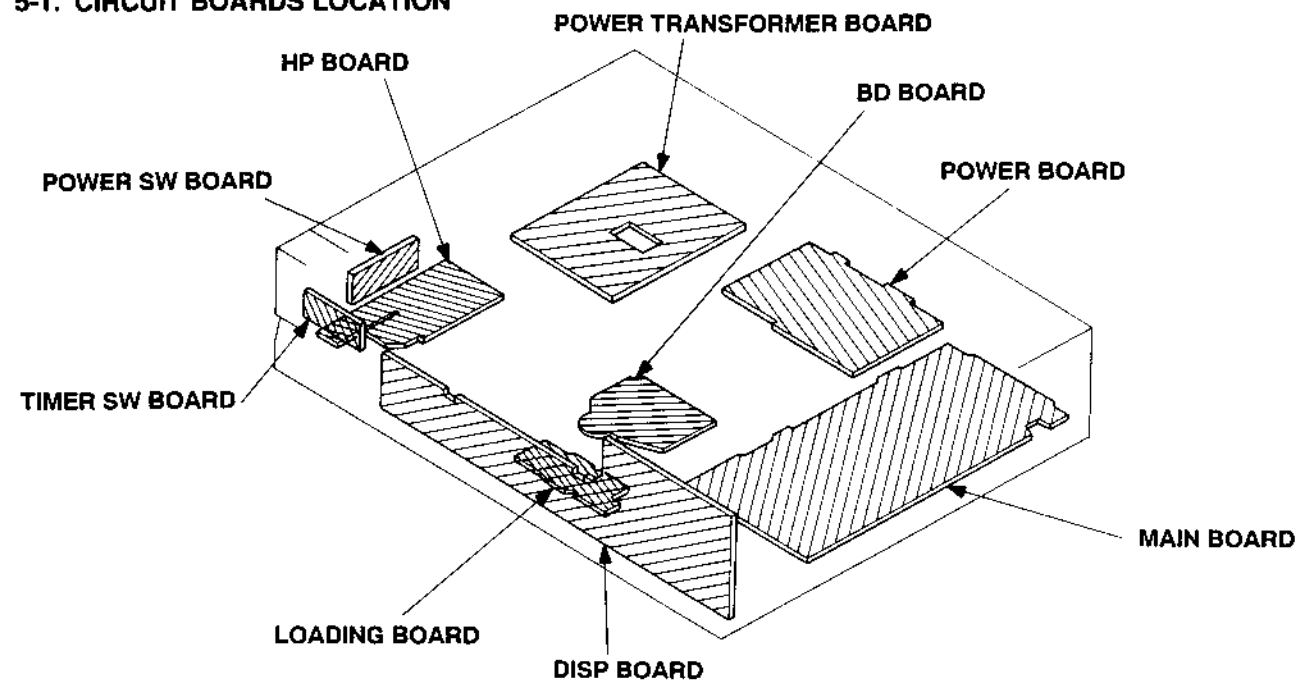
• **IC801 SUB-SYSTEM CONTROLLER (MSC62408-100GS-V1K)**

Exchanges data with IC327 (main system control microcomputer), controls display tube driving, performs key inputs/outputs, etc.

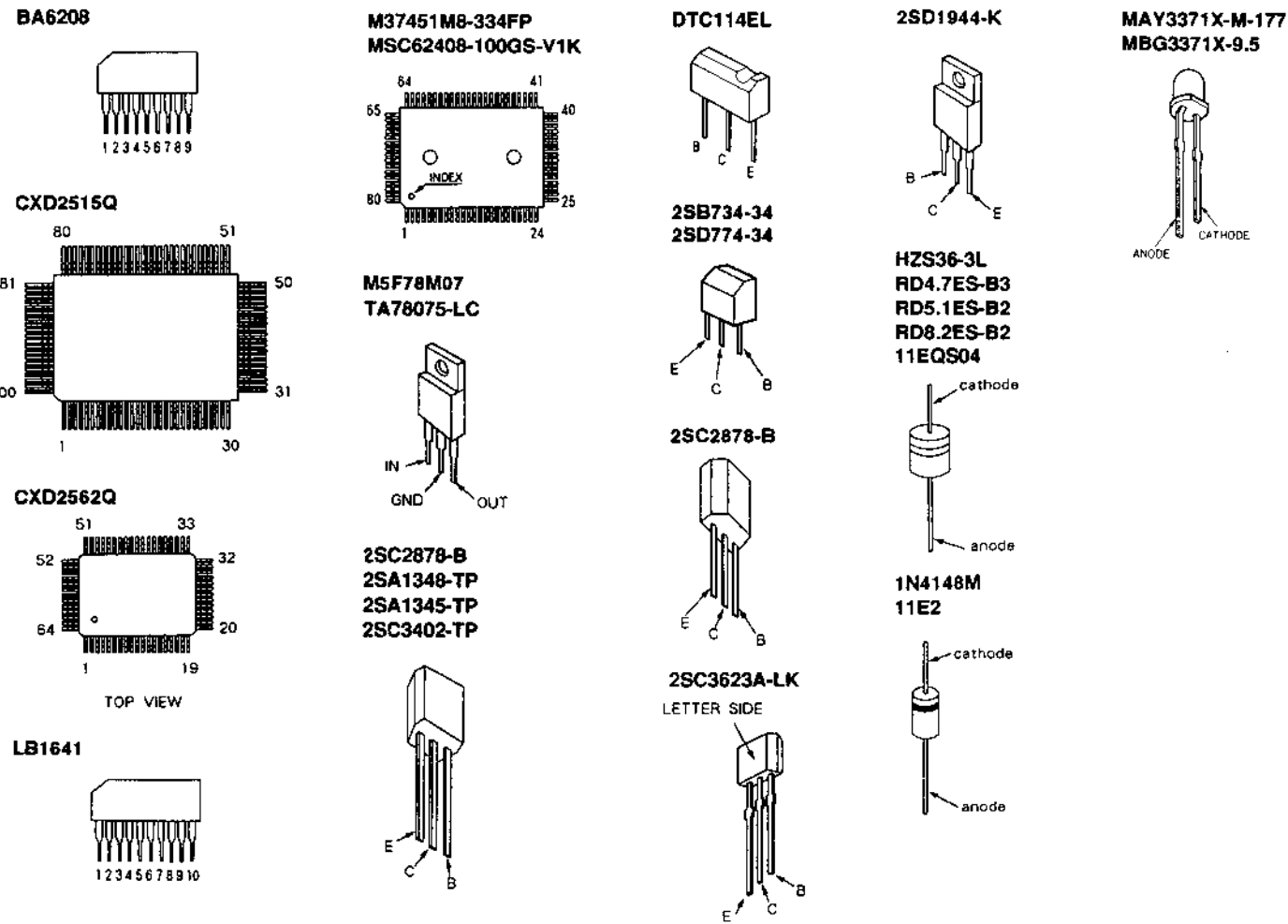
Pin No.	Pin Name	I/O	Description
1	SCAN6	O	Key scan control signal output. (No connection)
2	TIMER	I	Timer switch control input.
3-9	KEY0 - KEY6	I	Key inputs. (9 pin: Connected to the GND)
10-13	CMD0 - CMD3	I/O	Data exchange input/output pin with the main system control (IC327).
14	M.REQ	O	Command request output to the main system control (IC327)
15	S.ACK	I	Command acknowledge input from the main system control (IC327)
16	M/F	I/O	Master/file command select signal input/output pin with the main system control (IC327)
17	RMIN	I	Remote control signal input from the sensor (IC802) of the remote control.
18	997X/ES	I	Model selecting port. Fixed at "H" in this unit.
19	Q.INT	I	Command pulse input from the main system control (IC327).
20	RESET	I	Reset signal input. "L": RESET
21	TEST	I	Not used. Connected to the GND in this unit.
22	-	-	Non connection.
23	TEST	I	Test mode setting pin. Carries out various operation tests when "L" during POWER ON.
24-27	NC	-	Non connection.
28	PAUSE	O	Output for driving the PAUSE display LED.
29	PLAY	O	Output for driving the PLAY display LED.
30	OSC1	I	Clock input. (4.19MHz)
31	OSC0	O	Clock output.
32	Vss	-	GND pin.
33-34	T0 - T11	O	Grid driving output to the fluorescent display tube (FLD801).
45-48	S28 - S25	O	Segment driving output to the fluorescent display tube (FLD801).
49	VFLT	I	Voltage input pin (+35V) for the fluorescent display tube (FLD801).
50-73	S24 - S1	I	Segment driving output to the fluorescent display tube (FLD801).
74	VDD	-	Power supply pin. (+5V)
75-80	SCAN0 - SCAN5	O	Key scan control signal output. (78 to 80 pins: No connection)

SECTION 5 DIAGRAMS

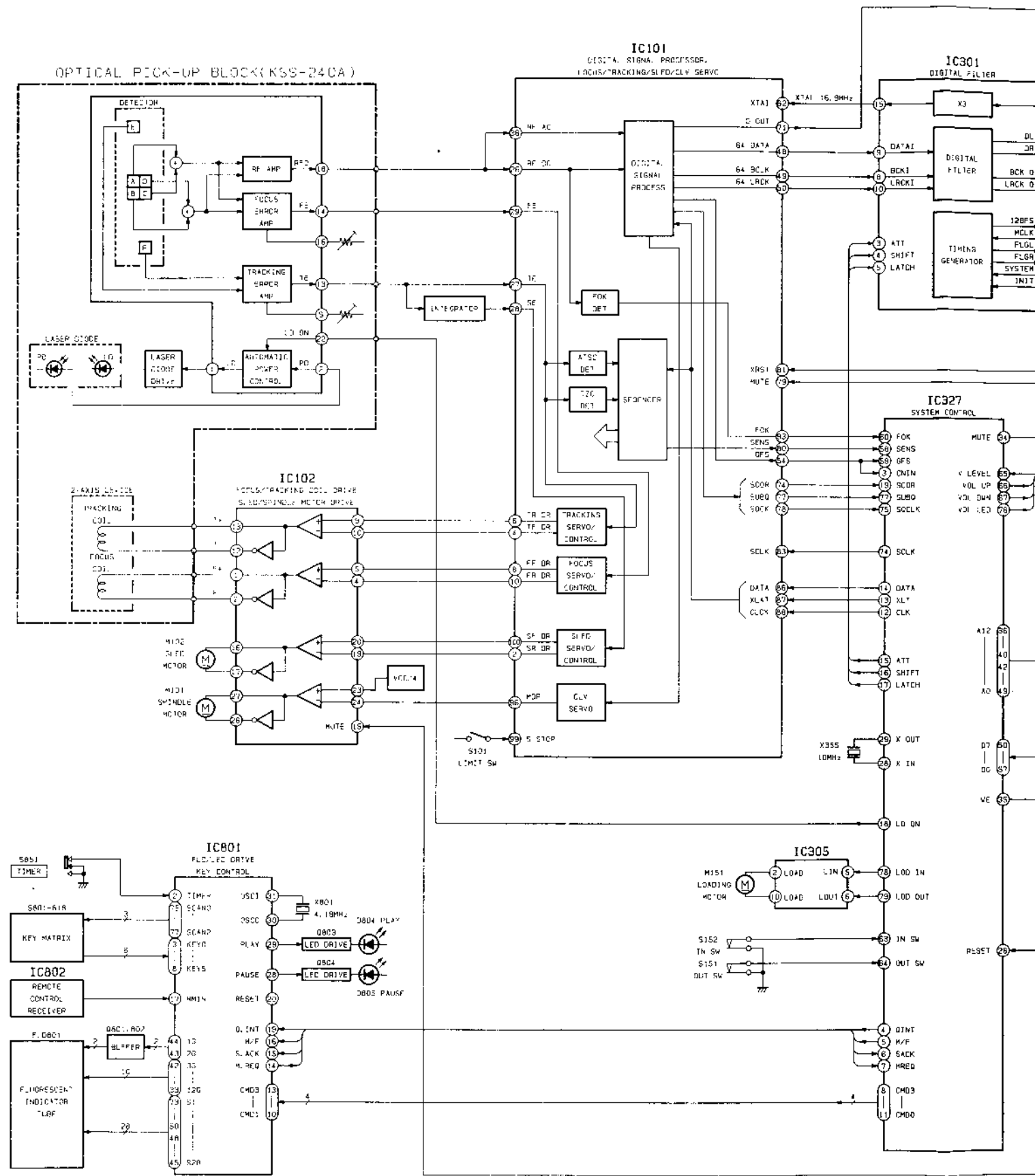
5-1. CIRCUIT BOARDS LOCATION

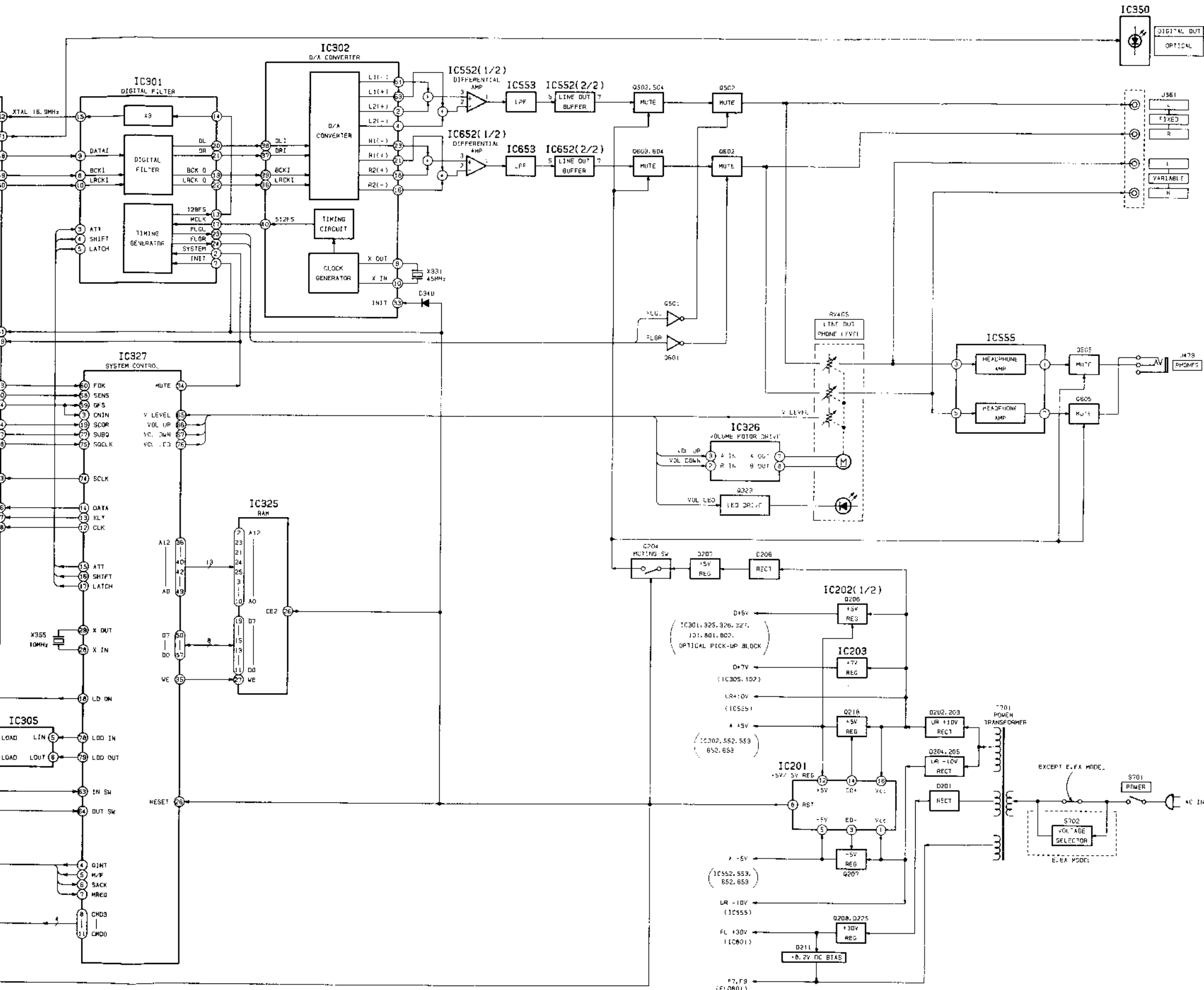


5-2. SEMICONDUCTOR LEAD LAYOUTS



5-3. BLOCK DIAGRAM





5-4. PRINTED WIRING BOARDS

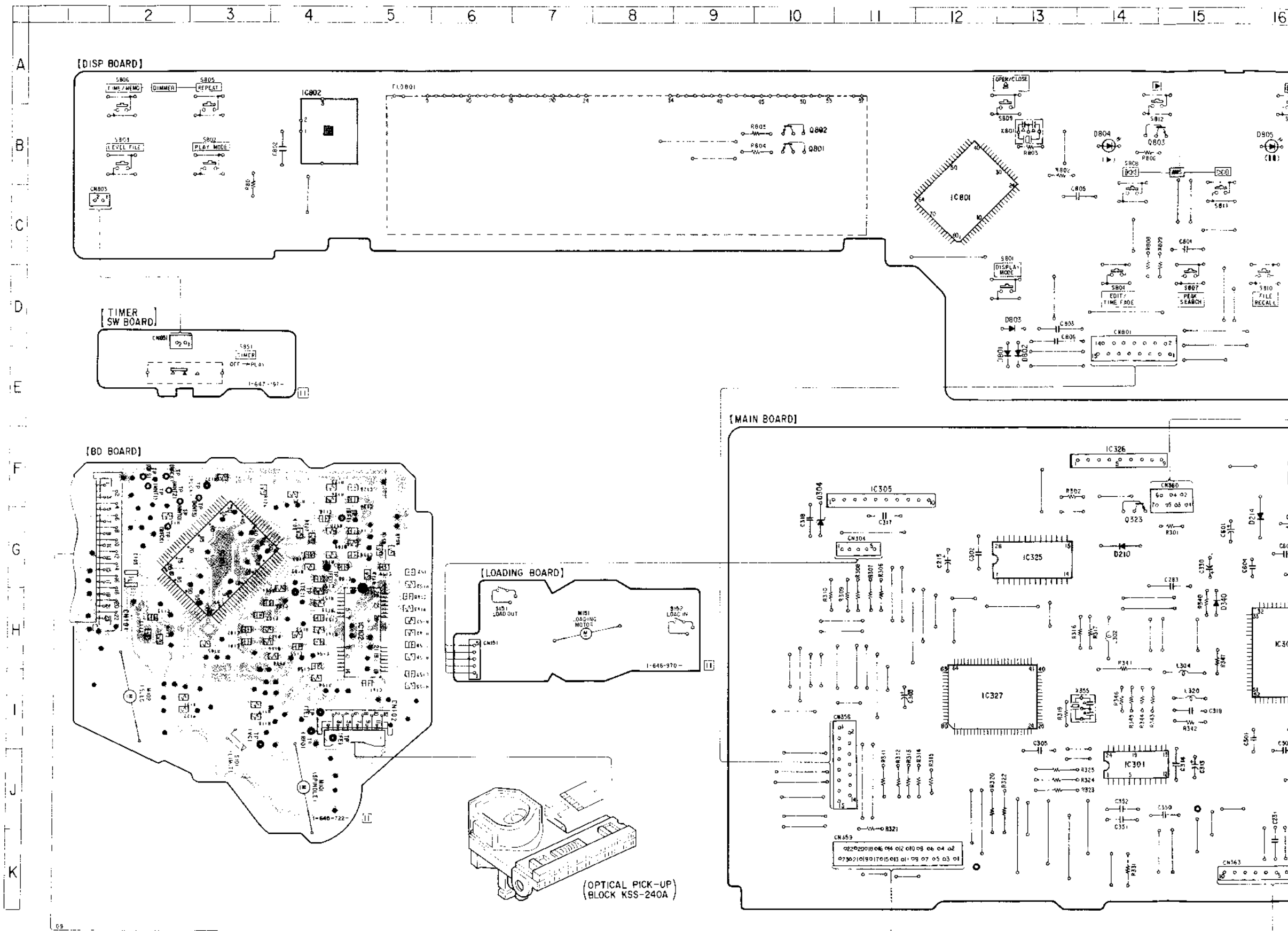
• See page 11 for Circuit Boards Location and Semiconductor Lead Layouts.

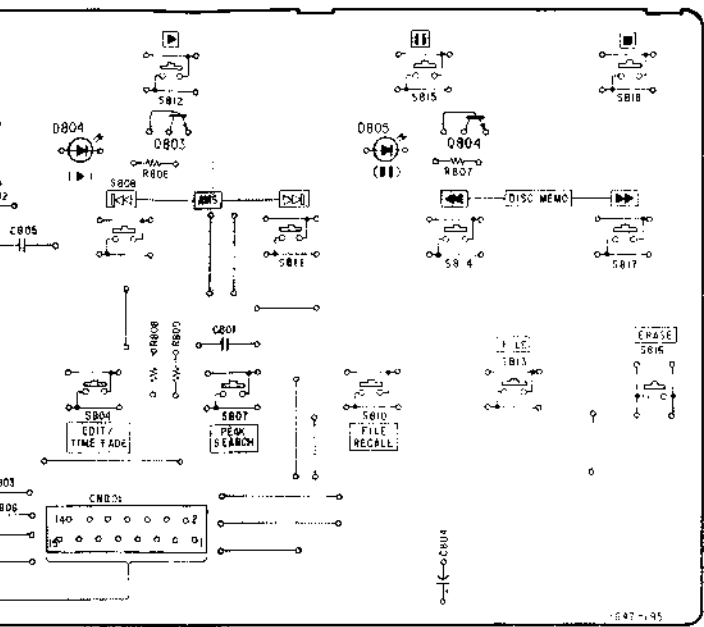
SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D201	G-25	Q204	J-23
D202	F-23	Q206	I-26
D203	F-23	Q207	I-25
D204	F-24	Q208	G-26
D205	F-24	Q218	I-24
D206	I-23	Q323	G-14
D207	I-23	Q501	F-18
D210	G-14	Q502	F-21
D211	F-26	Q503	H-20
D214	G-16	Q504	H-20
D225	G-26	Q505	K-21
D304	G-10	Q601	F-16
D322	J-24	Q602	F-21
D340	H-15	Q603	G-20
D801	E-13	Q604	H-20
D802	E-13	Q605	K-21
D803	D-13	Q801	B-10
D804	C-14	Q802	B-10
D805	B-16	Q803	B-15
		Q804	B-17
IC101	G-3		
IC102	H-5		
IC201	I-25		
IC202	H-25		
IC203	J-26		
IC301	J-14		
IC302	H-16		
IC305	F-11		
IC325	G-13		
IC326	F-14		
IC327	I-12		
IC350	G-21		
IC552	J-19		
IC553	I-19		
IC555	K-20		
IC652	G-19		
IC653	H-19		
IC801	C-12		
IC802	B-4		

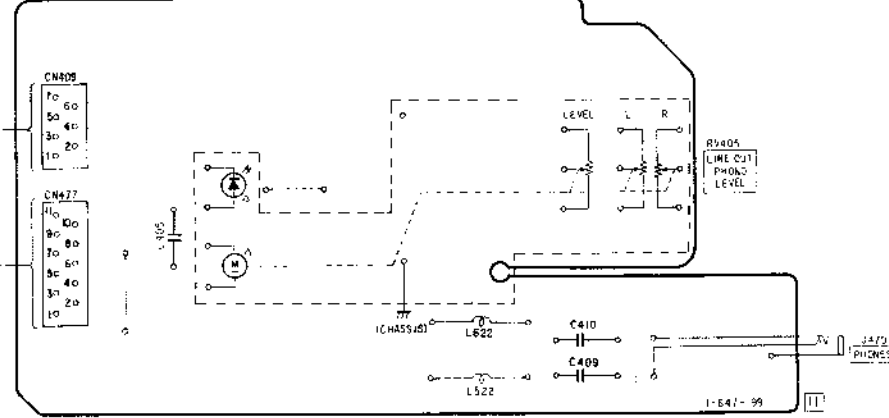
Notes on printed wiring boards:

- ○ — : Indicated a lead wire mounted on the component side
- ● : Through hole
- ▨ : Pattern from the side which enables seeing

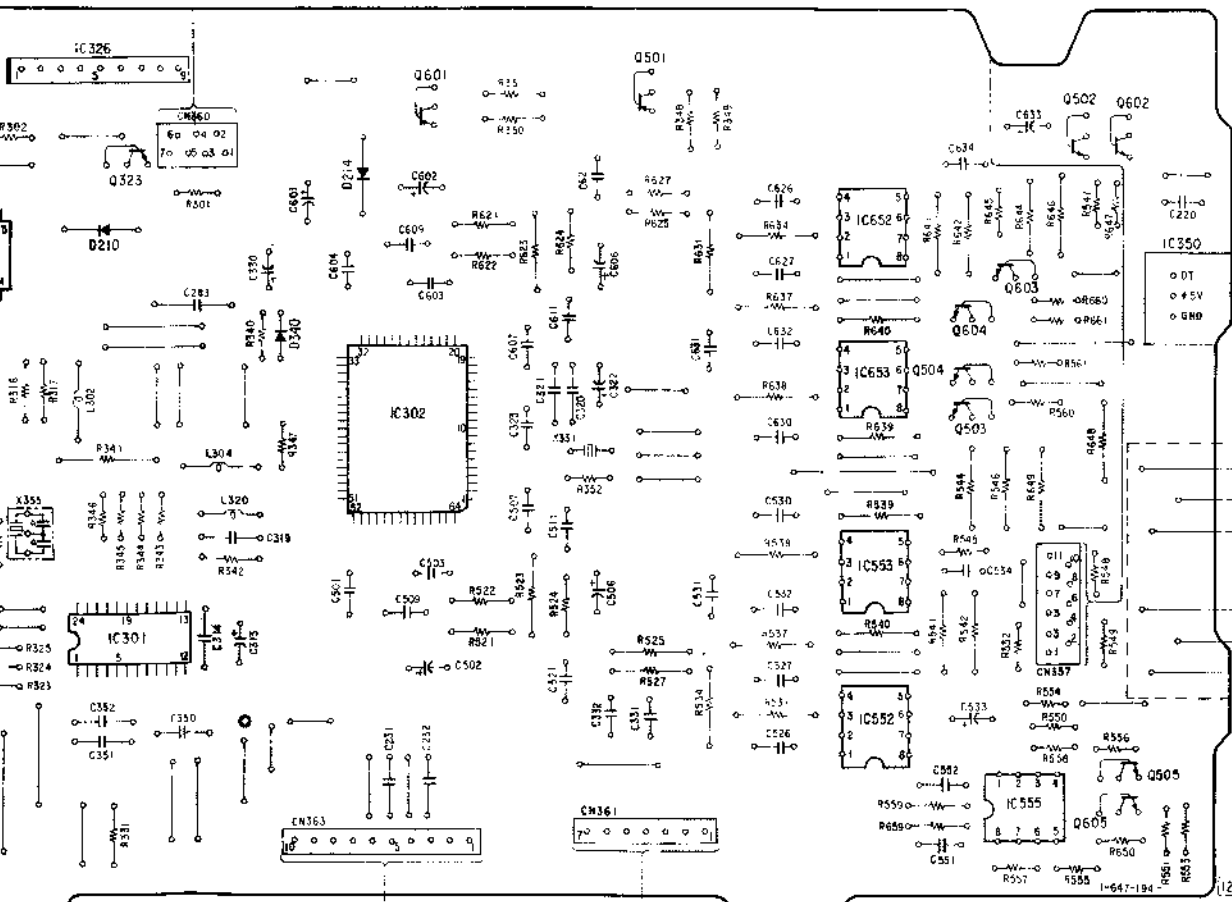
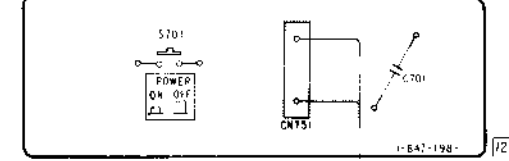




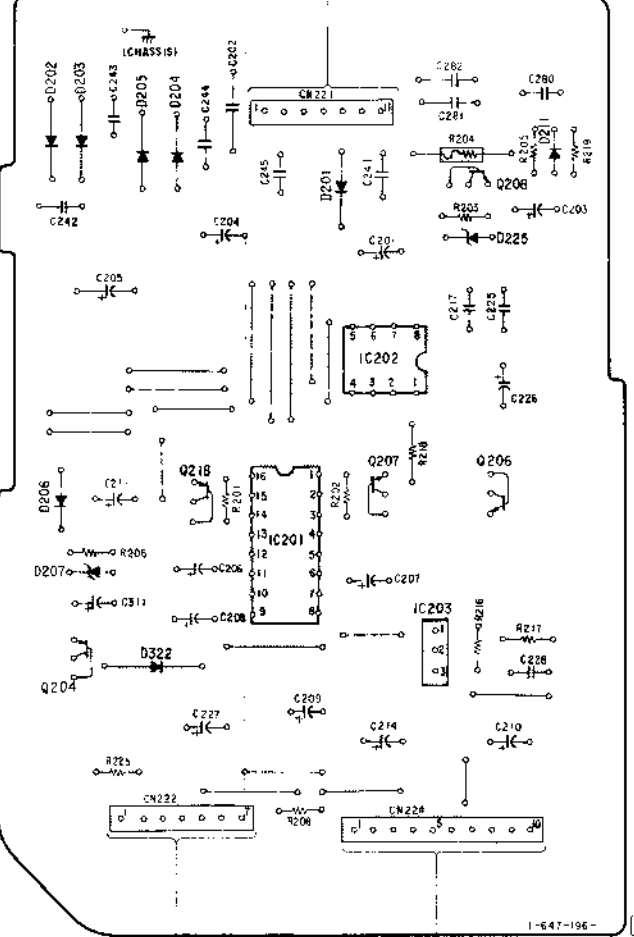
[H.P. BOARD]



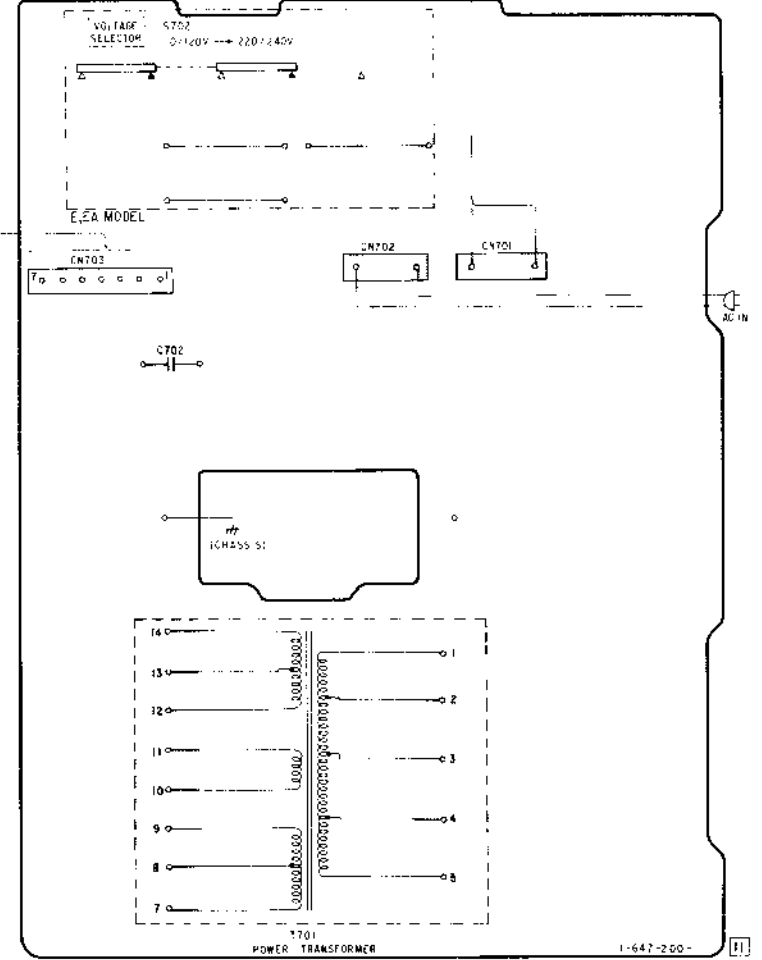
[POWER SW BOARD]



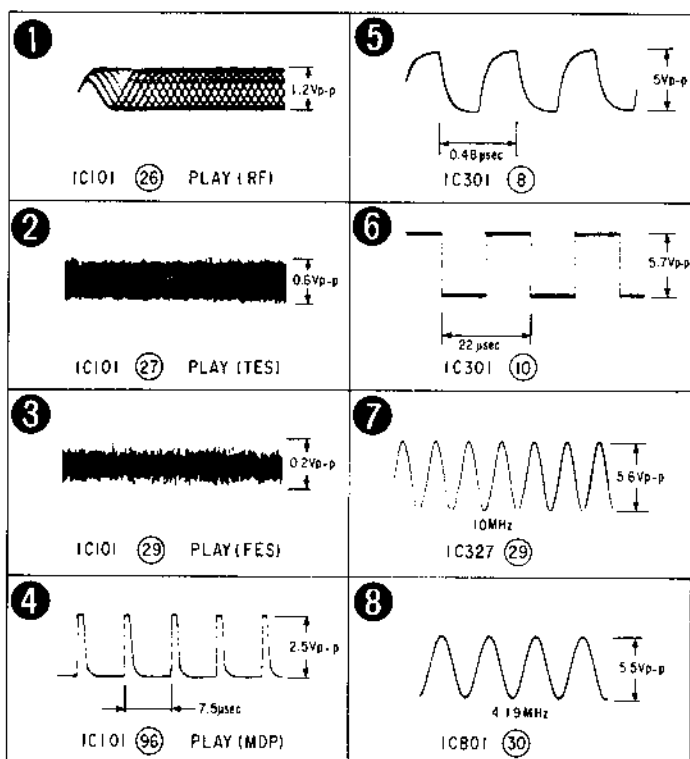
[POWER BOARD]



[POWER TRANSFORMER BOARD]



5-5. SCHEMATIC DIAGRAM
• See page 24 for IC Block Diagrams.



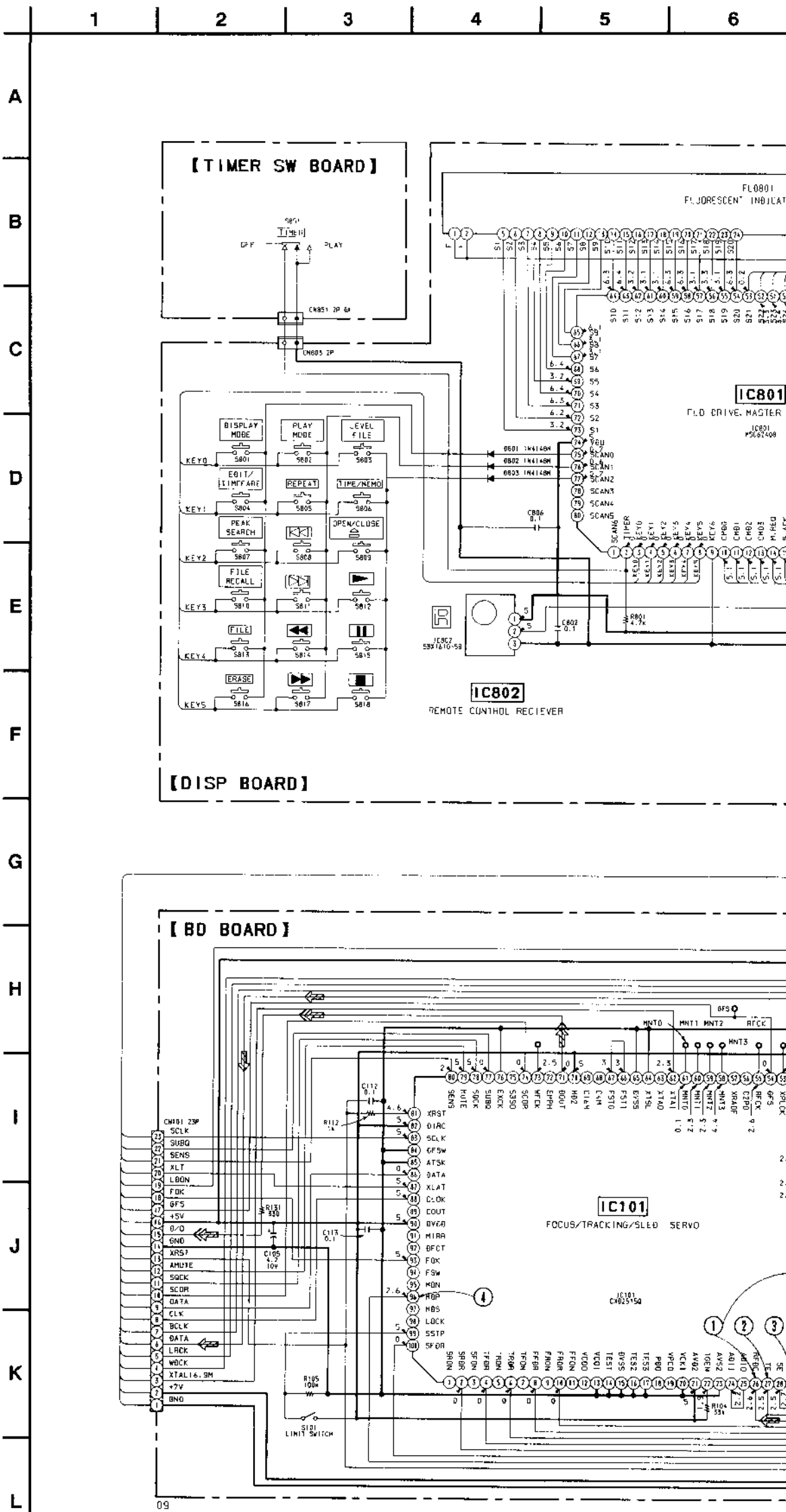
Notes on schematic diagram:

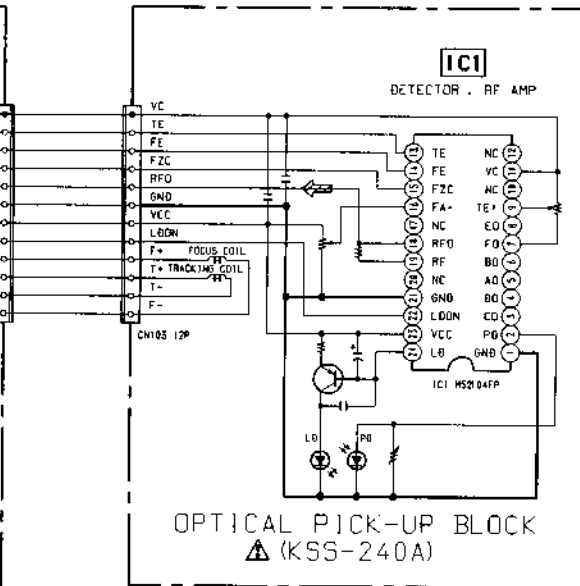
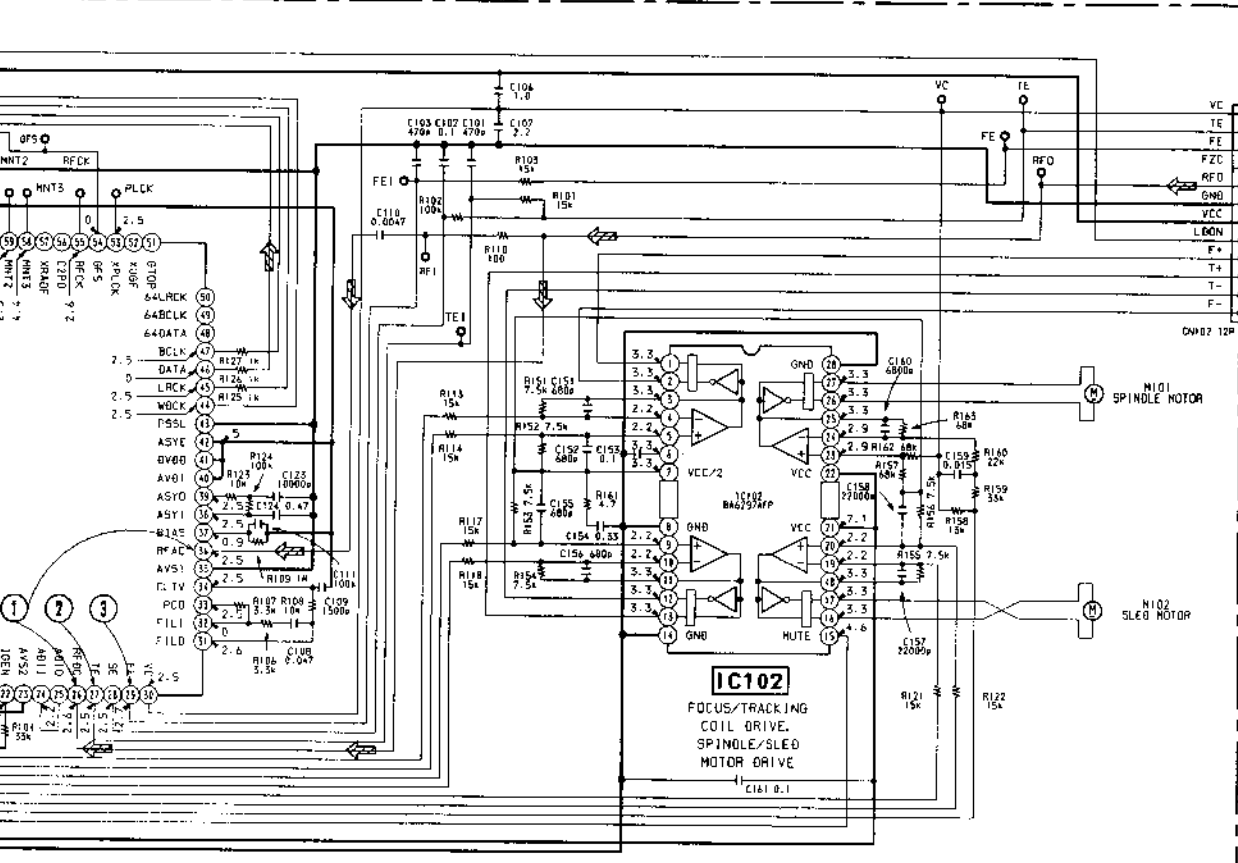
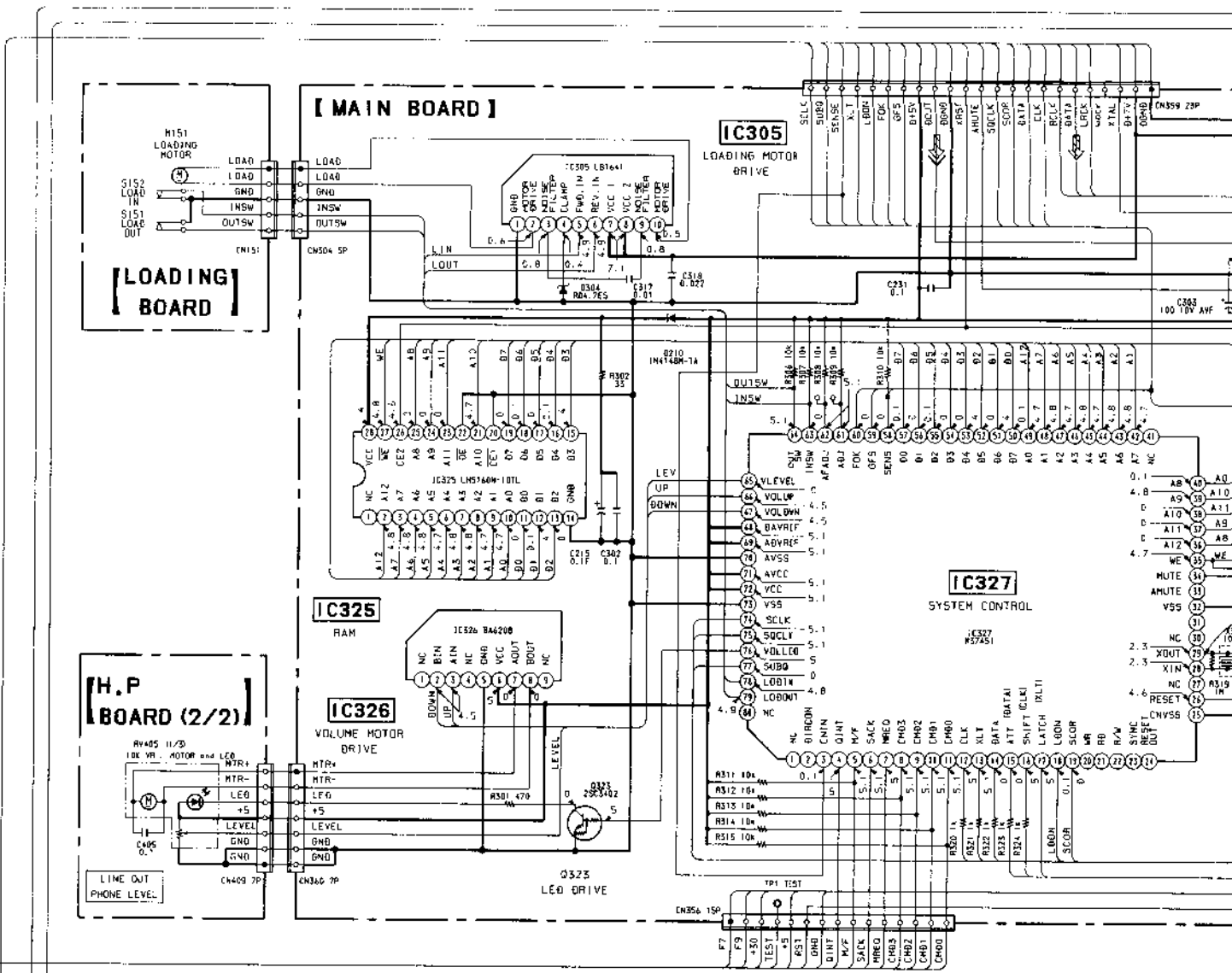
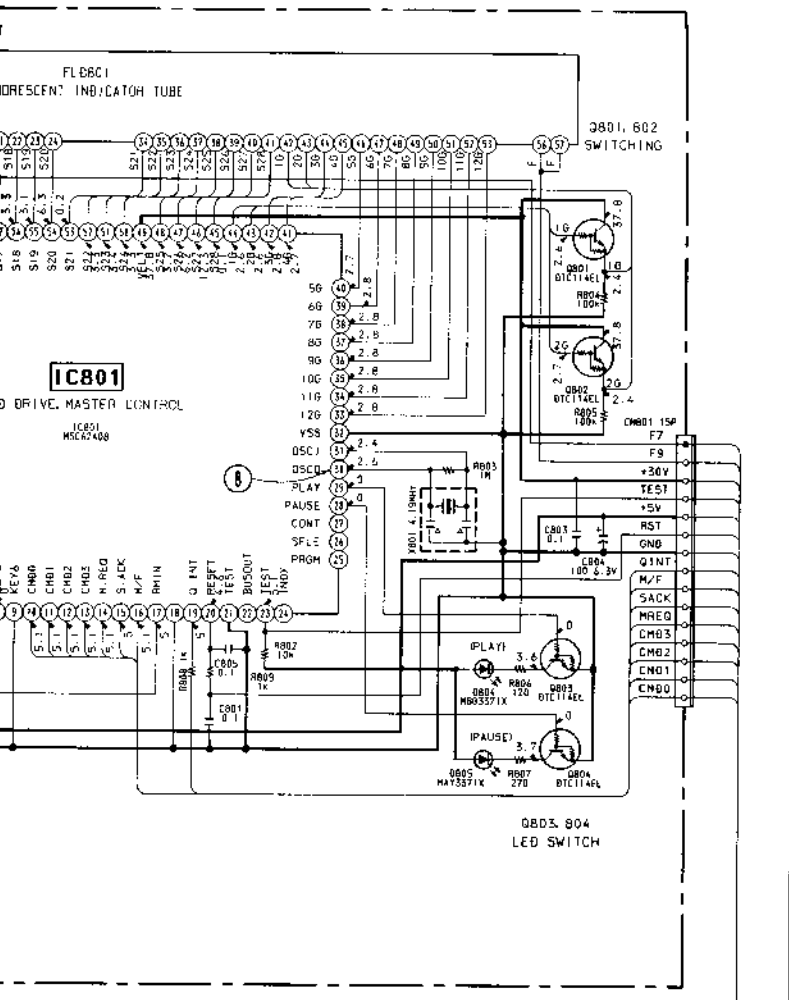
- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums
- All resistors are in ohms, 1/4W or less unless otherwise noted
- Δ : Internal component
- % : Indicates permissible margin
- : Fuse resistor

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

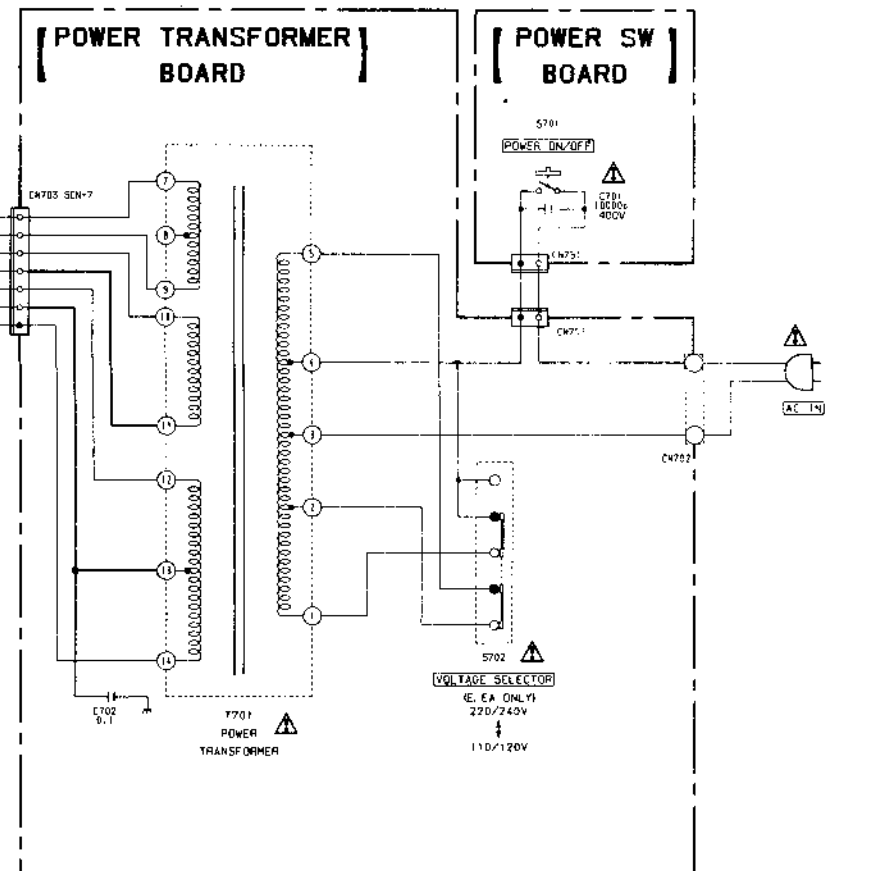
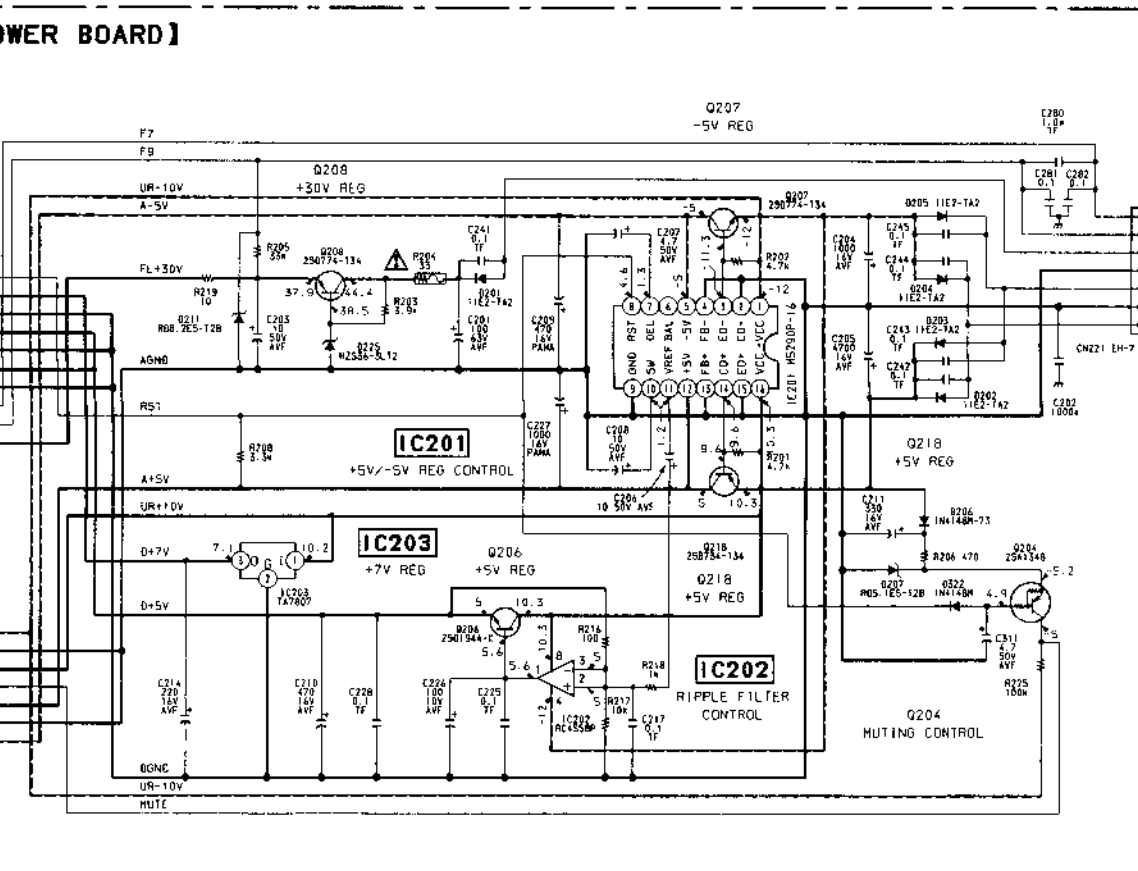
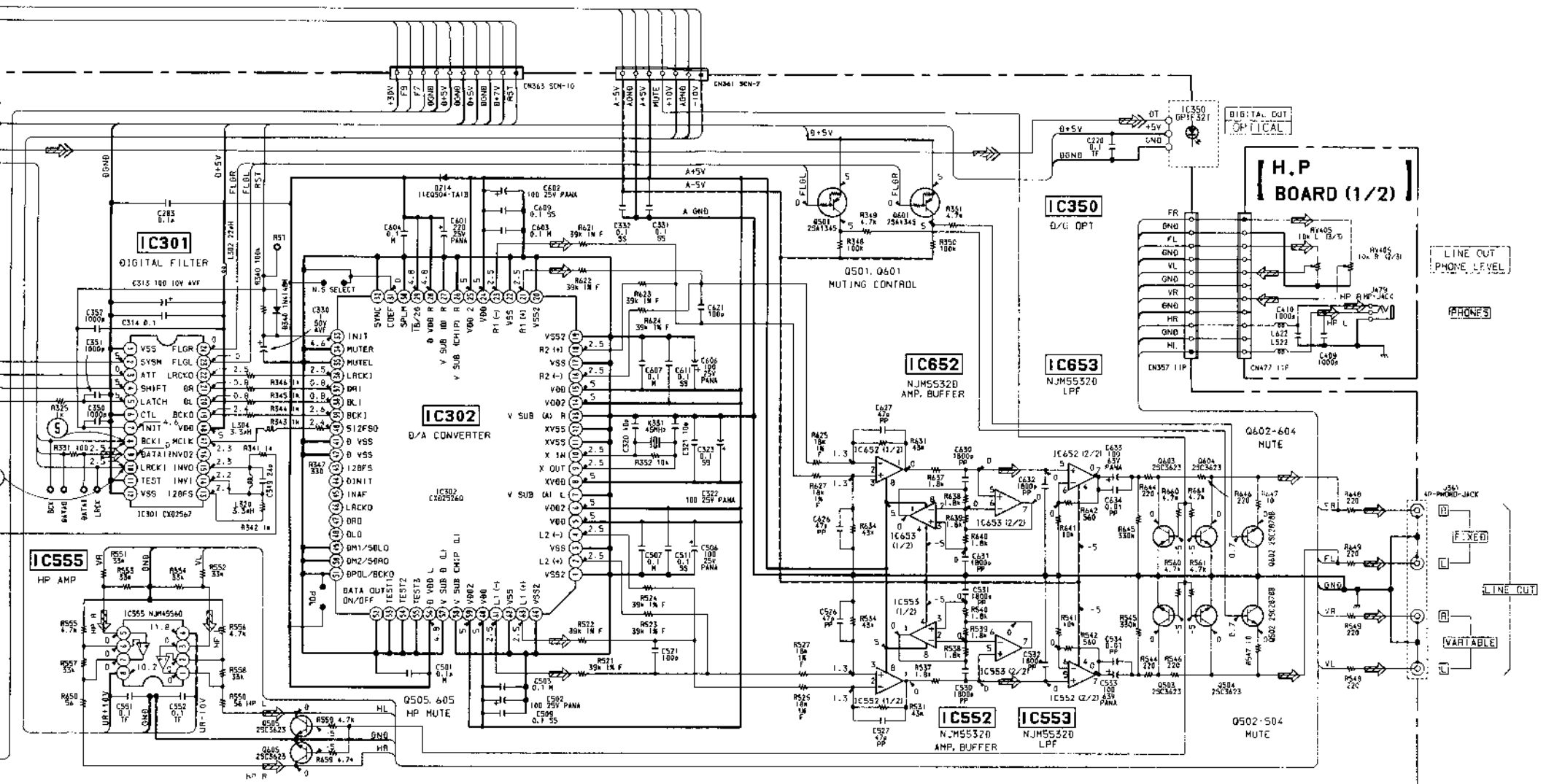
Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ line
- : B- line
- : Adjustment for repair
- Voltage are dc with respect to ground under no-signal conditions.
- no mark : STOP
- () : PLAY
- Voltages are taken with a VOM (input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
- : CD



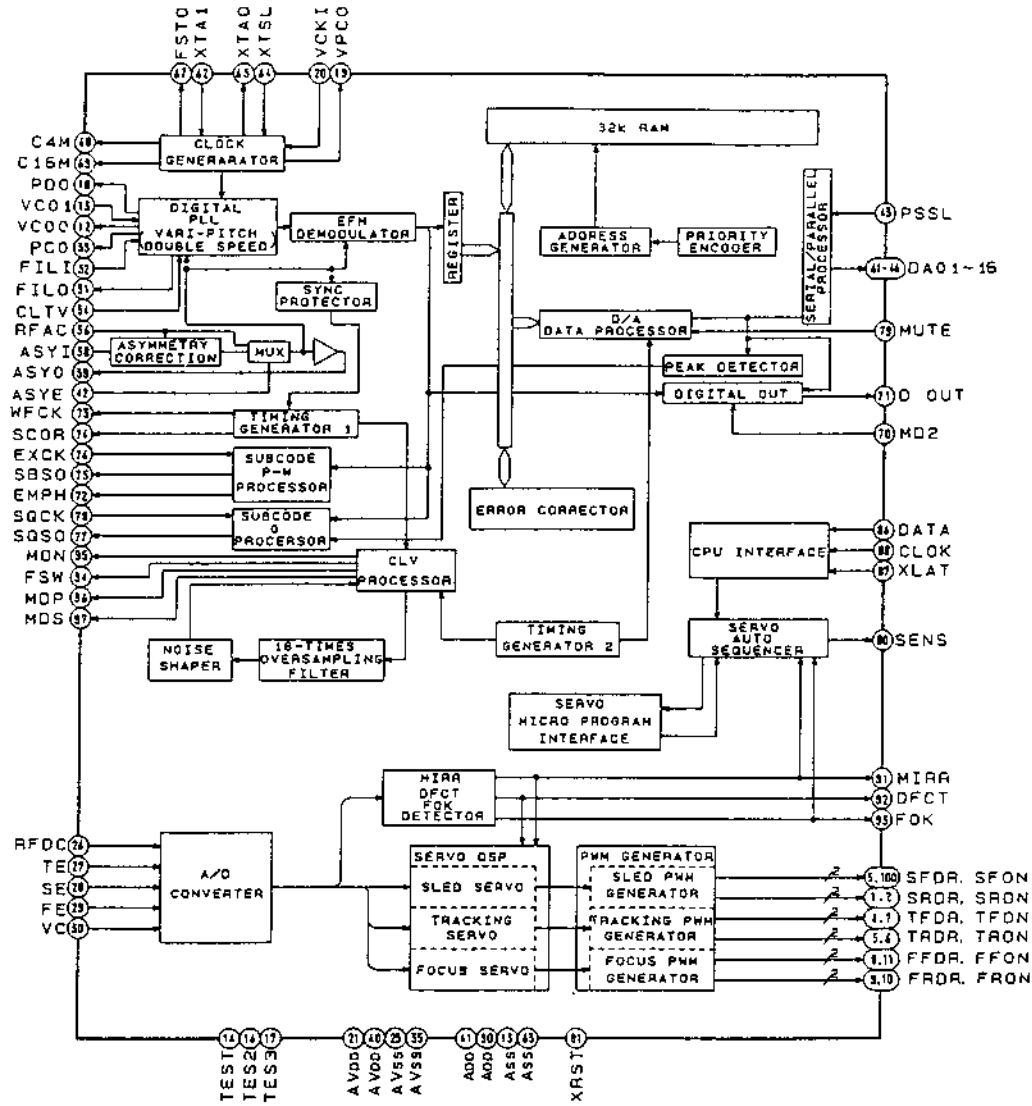


19 20 21 22 23 24 25 26 27 28 29

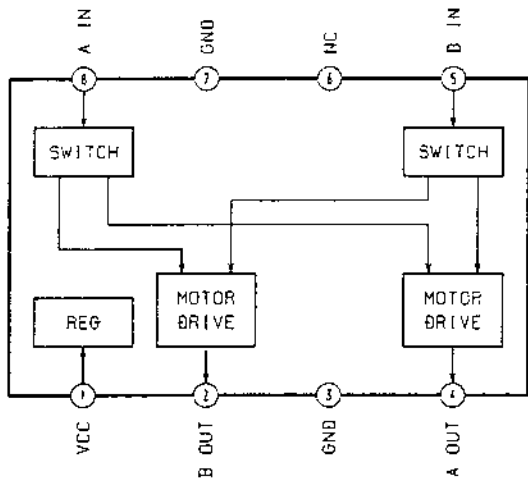


5-6. IC BLOCK DIAGRAM

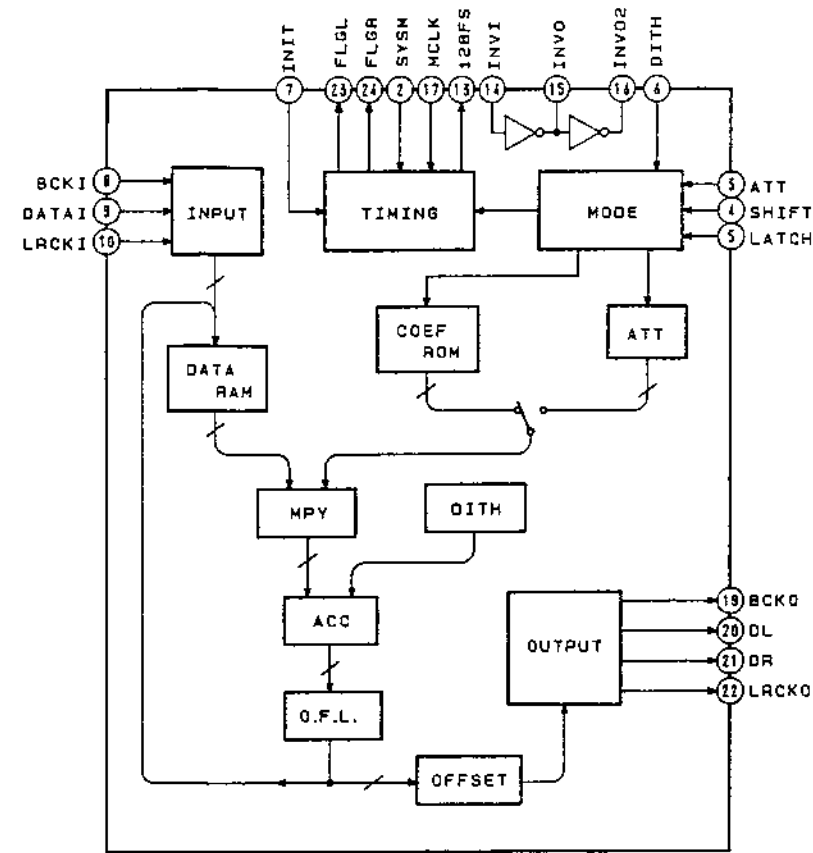
IC101 CXD2515Q



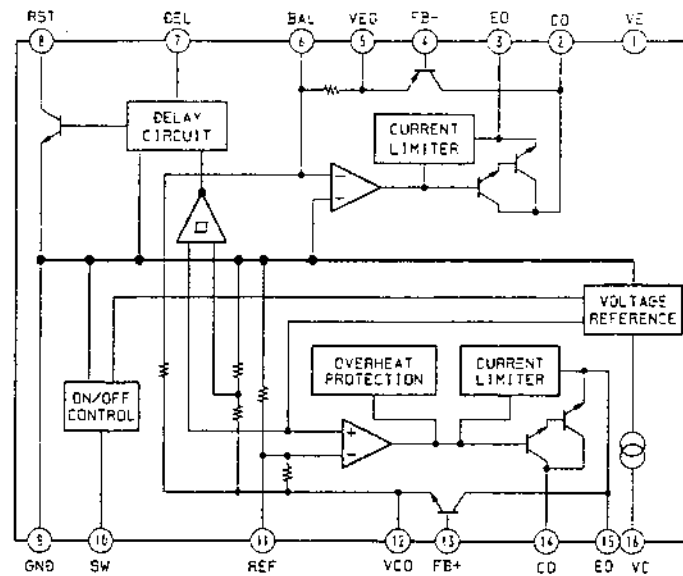
IC326 BA6208



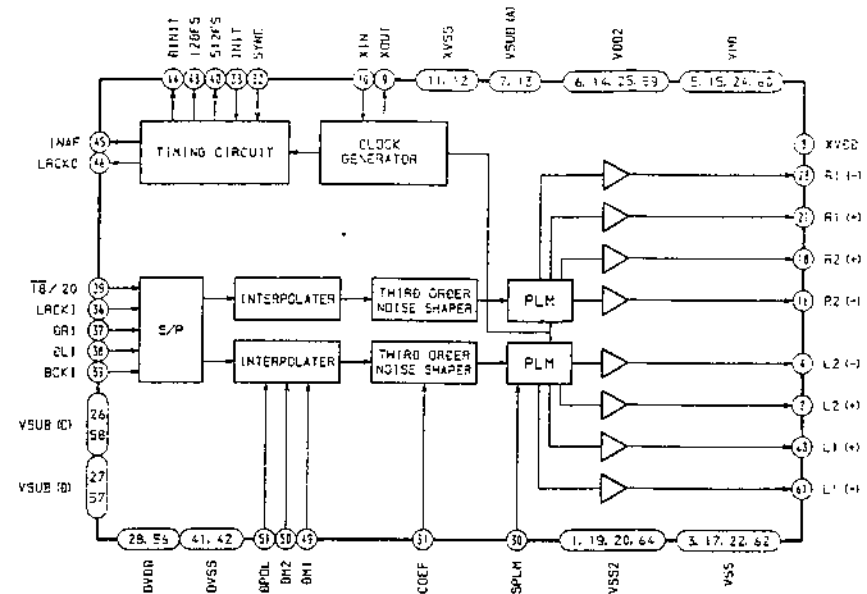
IC301 CXD2567M



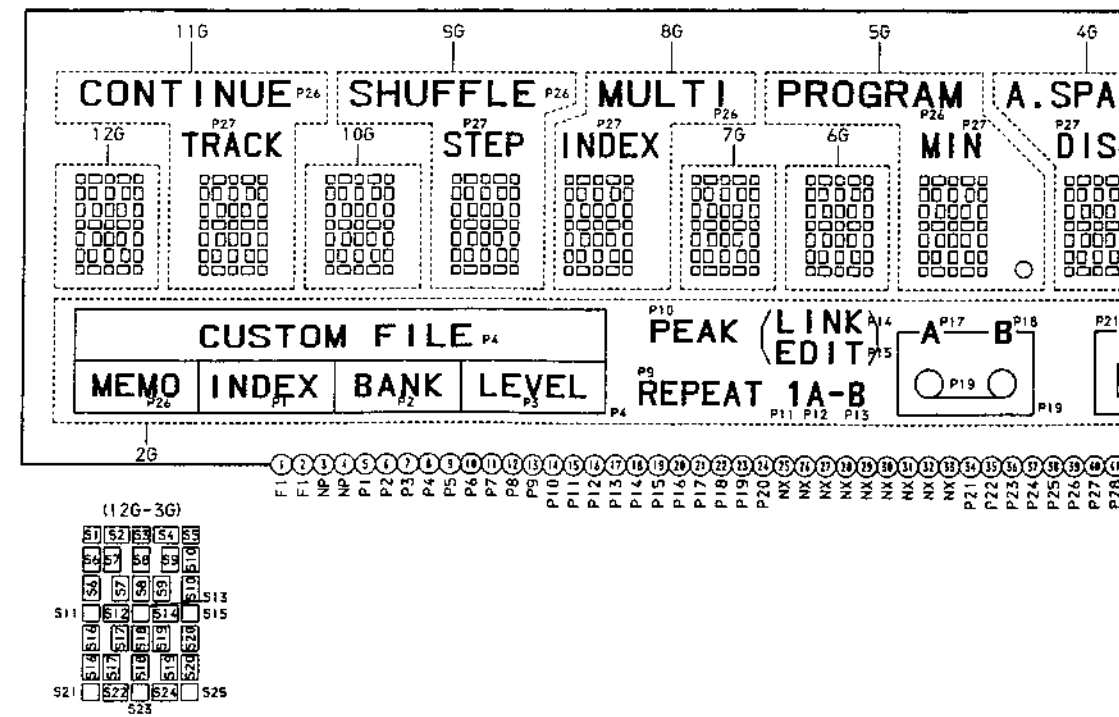
IC201 M5290P-16



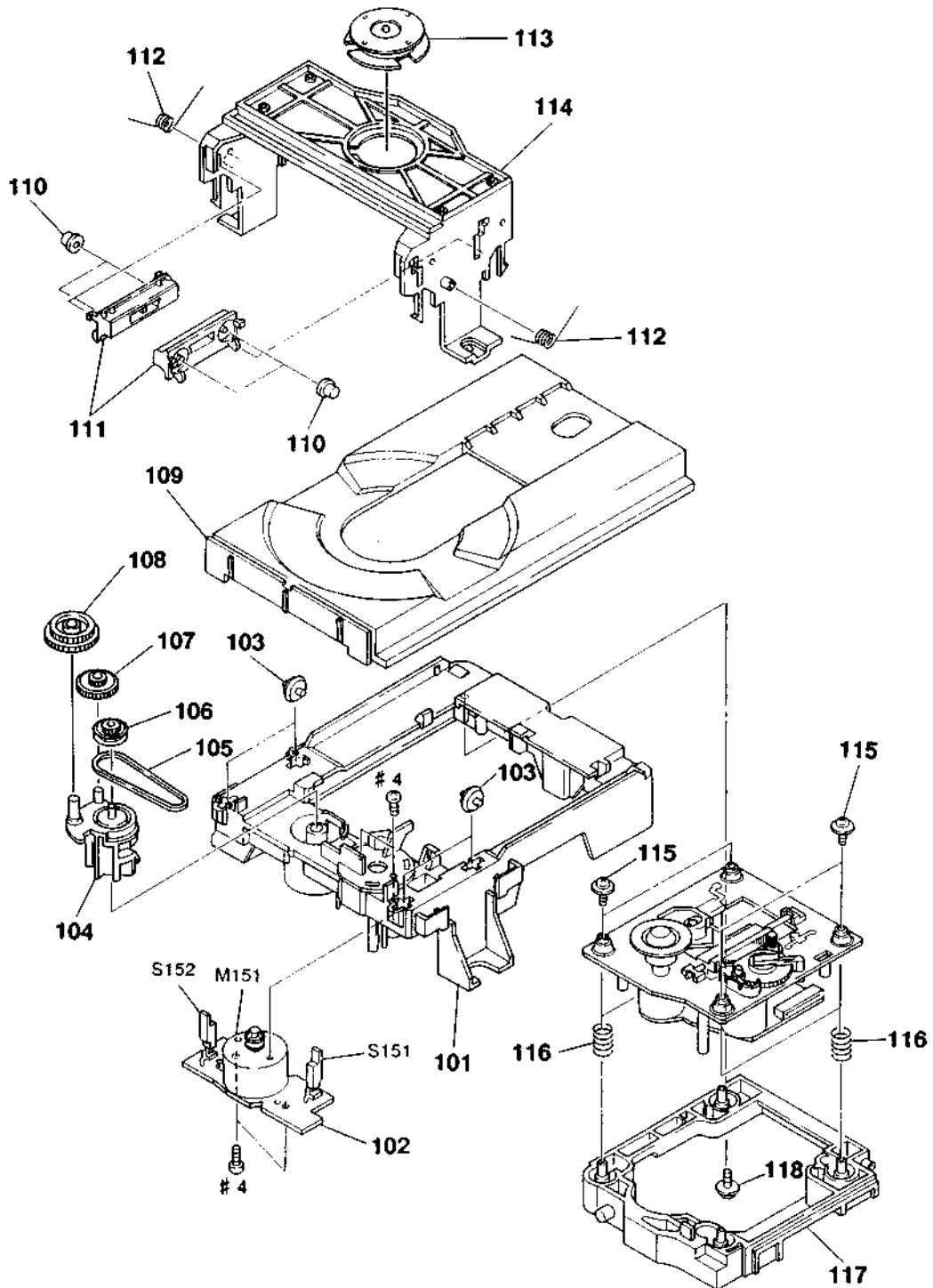
IC302 CXD2562Q



FLD801 FLUORESCENT INDICATOR TUBE



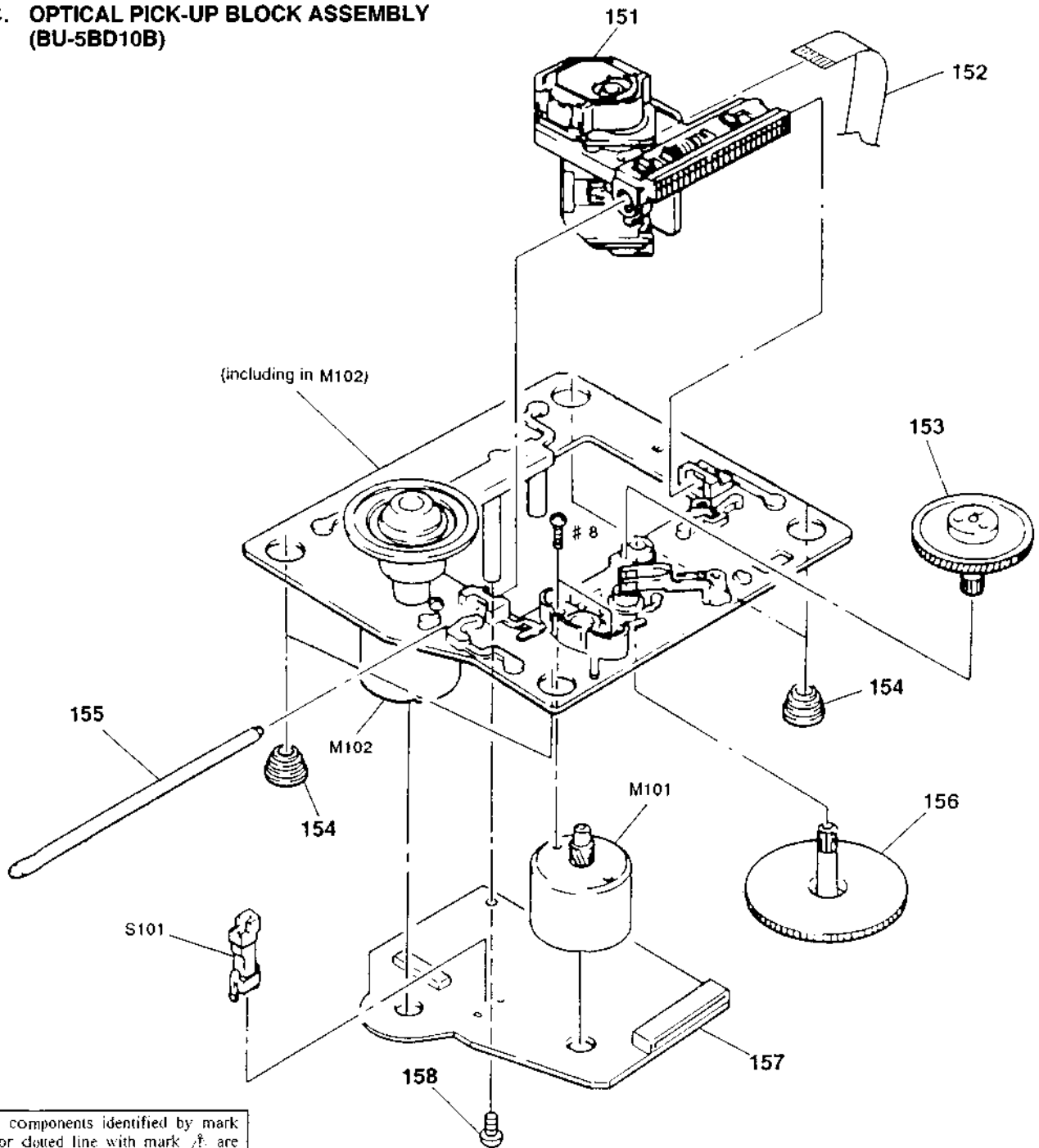
6-3. CDM25-5BD10






Ref. No.	Part No.	Description
* 101	4-954-190-01	BASE (MD)
* 102	1-646-970-11	LOADING BOARD
103	4-954-193-01	ROLLER (A)
104	4-933-109-01	CAM
105	4-927-649-01	BELT
106	4-927-651-01	PULLEY (S)
107	4-927-628-01	GEAR (C)
108	4-933-107-01	GEAR (PL)
109	4-954-191-01	TABLE, DISK
110	4-954-194-01	ROLLER (B)
111	4-954-199-01	PLATE, SLIDE


Ref. No.	Part No.	Description	Remark
112	4-954-195-02	SPRING, TORSION	
* 113	1-452-538-11	MAGNET	
* 114	4-954-192-01	HOLDER (M)	
115	4-933-134-01	SCREW (+PTPWH M2, 6X6)	
116	4-948-503-01	SPRING (BU), COMPRESSION	
117	4-933-129-01	HOLDER (BU)	
* 118	4-917-583-21	BRACKET, YOKE	
M151	A-4604-363-A	MOTOR (L) ASSY	
S151	1-572-086-11	SWITCH, LEAF	
S152	1-572-086-11	SWITCH, LEAF	

6-4. OPTICAL PICK-UP BLOCK ASSEMBLY
(BU-5BD10B)



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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	151	8-848-144-11 DEVICE, OPTICAL KSS-240A		*	157	A-4649-432-A BD BOARD, COMPLETE	
	152	1-575-001-11 WIRE, FLAT TYPE (12 CORE)			158	4-951-620-01 SCREW (2. 6X8), +BVTP	
	153	4-917-567-01 GEAR (M)			M101	X-4917-504-1 MOTOR ASSY (SLID)	
	154	4-951-940-01 INSULATOR (BU)			M102	X-4917-523-3 BASE (OUTSERT) ASSY (SPINDLE MOTO)	
	155	4-917-565-01 SHAFT, SLED			S101	1-572-085-11 SWITCH, LEAF (LIMIT IN)	
	156	4-917-564-01 GEAR (P), FLATNESS					

DISP H.P LOADING

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< CAPACITOR >							
C801	1-164-159-11	CERAMIC 0.1uF	50V	S806	1-554-303-21	SWITCH, TACTILE (TIME/MEMO)	
C802	1-164-159-11	CERAMIC 0.1uF	50V	S807	1-554-303-21	SWITCH, TACTILE (PEAK SEARCH)	
C803	1-164-159-11	CERAMIC 0.1uF	50V	S808	1-554-303-21	SWITCH, TACTILE (←←)	
C804	1-126-177-11	ELECT 100uF	20% 10V	S809	1-554-303-21	SWITCH, TACTILE (OPEN/CLOSE △)	
C805	1-164-159-11	CERAMIC 0.1uF	50V	S810	1-554-303-21	SWITCH, TACTILE (FILE RECALL)	
C806	1-164-159-11	CERAMIC 0.1uF	50V	S811	1-554-303-21	SWITCH, TACTILE (←←)	
< CONNECTOR >							
* CN801	1-568-858-11	SOCKET, CONNECTOR 15P		S812	1-554-303-21	SWITCH, TACTILE (▶)	
* CN803	1-568-951-11	PIN, CONNECTOR 2P		S813	1-554-303-21	SWITCH, TACTILE (FILE)	
< DIODE >							
D801	8-719-987-63	DIODE 1N4148M		S814	1-554-303-21	SWITCH, TACTILE (←←)	
D802	8-719-987-63	DIODE 1N4148M		S815	1-554-303-21	SWITCH, TACTILE (■)	
D803	8-719-987-63	DIODE 1N4148M		S816	1-554-303-21	SWITCH, TACTILE (ERASE)	
D804	8-719-987-93	LED MBG3371X-9.5		S817	1-554-303-21	SWITCH, TACTILE (▶▶)	
D805	8-719-971-52	LED MAY3371X-M-177		S818	1-554-303-21	SWITCH, TACTILE (■)	
< INDICATOR >				< VIBRATOR >			
FLD801	1-517-128-11	INDICATOR TUBE, FLUORESCENT		X801	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)	
< IC >							
IC801	8-759-167-73	IC MSC62408-100GS-V1K		*****			
IC802	8-741-100-48	IC SBX1610-59		* 1-647-199-11	H. P BOARD		
< TRANSISTOR >				*****			
Q801	8-729-900-45	TRANSISTOR DTC114EF		< CAPACITOR >			
Q802	8-729-900-45	TRANSISTOR DTC114EF		C405	1-164-159-11	CERAMIC 0.1uF	50V
Q803	8-729-900-45	TRANSISTOR DTC114EF		C409	1-162-294-31	CERAMIC 0.001uF	10% 50V
Q804	8-729-900-45	TRANSISTOR DTC114EF		C410	1-162-294-31	CERAMIC 0.001uF	10% 50V
< RESISTOR >				< CONNECTOR >			
R801	1-249-425-11	CARBON 4.7K 5% 1/4W		* CN409	1-568-850-11	SOCKET, CONNECTOR 7P	
R802	1-249-429-11	CARBON 10K 5% 1/4W		* CN477	1-568-854-11	SOCKET, CONNECTOR 11P	
R803	1-247-903-91	CARBON 1M 5% 1/4W		< JACK >			
R804	1-249-441-11	CARBON 100K 5% 1/4W		J479	1-750-162-61	JACK (LARGE TYPE) (PHONES)	
R805	1-249-441-11	CARBON 100K 5% 1/4W		< COIL >			
R806	1-249-406-11	CARBON 120 5% 1/4W		L522	1-412-473-41	INDUCTOR 0uH	
R807	1-249-410-11	CARBON 270 5% 1/4W		L622	1-412-473-41	INDUCTOR 0uH	
R808	1-249-417-11	CARBON 1K 5% 1/4W		< VARIABLE RESISTOR >			
R809	1-249-417-11	CARBON 1K 5% 1/4W		RV405	1-241-304-12	RES, VAR. CARBON 10KX3	(LINE OUT PHONE LEVEL)
< SWITCH >				*****			
S801	1-554-303-21	SWITCH, TACTILE (DISPLAY MODE)		* 1-646-970-11	LOADING BOARD		
S802	1-554-303-21	SWITCH, TACTILE (PLAY MODE)		*****			
S803	1-554-303-21	SWITCH, TACTILE (LEVEL FILE)		< CONNECTOR >			
S804	1-554-303-21	SWITCH, TACTILE (EDIT/TIME FADE)		* CN151	1-568-943-11	PIN, CONNECTOR 5P	
S805	1-554-303-21	SWITCH, TACTILE (REPEAT)					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< SWITCH >					
S151	1-572-086-11	SWITCH, LEAF (LOAD OUT)		C601	1-126-024-11	ELECT 220uF 20%	25V
S152	1-572-086-11	SWITCH, LEAF (LOAD IN)		C602	1-126-052-11	ELECT 100uF 20%	25V
				C603	1-130-495-00	MYLAR 0.1uF 5%	50V
				C604	1-130-495-00	MYLAR 0.1uF 5%	50V
				C606	1-126-052-11	ELECT 100uF 20%	25V

*	A-4649-599-A	MAIN BOARD, COMPLETE		C607	1-130-495-00	MYLAR 0.1uF 5%	50V
		*****		C609	1-162-806-11	CERAMIC 0.1uF 10%	50V
				C611	1-162-806-11	CERAMIC 0.1uF 10%	50V
		< CAPACITOR >		C621	1-110-335-11	MYLAR 100PF 5%	50V
C215	1-125-622-11	CAP, DOUBLE LAYERS 0.10F		C626	1-136-270-11	FILM 47PF 5%	630V
C220	1-136-165-00	FILM 0.1uF 5%	50V	C627	1-136-270-11	FILM 47PF 5%	630V
C231	1-164-159-11	CERAMIC 0.1uF	50V	C630	1-136-192-11	FILM 0.0018uF 2%	100V
C232	1-164-159-11	CERAMIC 0.1uF	50V	C631	1-136-192-11	FILM 0.0018uF 2%	100V
C233	1-164-159-11	CERAMIC 0.1uF	50V	C632	1-136-192-11	FILM 0.0018uF 2%	100V
C302	1-164-159-11	CERAMIC 0.1uF	50V	C633	1-126-077-11	ELECT 100uF 20%	63V
C303	1-126-101-11	ELECT 100uF 20%	16V	C634	1-130-297-91	FILM 0.01uF 5%	100V
C305	1-164-159-11	CERAMIC 0.1uF	50V			< CONNECTOR >	
C313	1-126-101-11	ELECT 100uF 20%	16V	* CN304	1-568-954-11	PIN, CONNECTOR 5P	
C314	1-164-159-11	CERAMIC 0.1uF	50V	* CN356	1-568-834-11	SOCKET, CONNECTOR 15P	
C317	1-162-306-11	CERAMIC 0.01uF 20%	16V	* CN357	1-568-830-11	SOCKET, CONNECTOR 11P	
C318	1-161-494-00	CERAMIC 0.022uF	25V	* CN359	1-568-839-11	SOCKET, CONNECTOR 23P	
C319	1-162-208-31	CERAMIC 24PF 5%	50V	* CN360	1-568-826-11	SOCKET, CONNECTOR 7P	
C320	1-162-199-31	CERAMIC 10PF 5%	50V			< DIODE >	
C321	1-162-199-31	CERAMIC 10PF 5%	50V	D210	8-719-987-63	DIODE IN4148M	
C322	1-126-052-11	ELECT 100uF 20%	25V	D214	8-719-210-21	DIODE 11EQS04	
C323	1-162-806-11	CERAMIC 0.1uF 10%	50V	D304	8-719-109-82	DIODE RD4.7ES-B3	
C330	1-124-791-11	ELECT 1.0uF 20%	100V	D340	8-719-987-63	DIODE IN4148M	
C331	1-162-806-11	CERAMIC 0.1uF 10%	50V			< IC >	
C332	1-162-806-11	CERAMIC 0.1uF 10%	50V	IC301	8-752-356-03	IC CXD2567M	
C350	1-162-294-31	CERAMIC 0.001uF 10%	50V	IC302	8-759-044-10	IC CXD2562Q	
C351	1-162-294-31	CERAMIC 0.001uF 10%	50V	IC305	8-759-822-09	IC LB1641	
C501	1-130-495-00	MYLAR 0.1uF 5%	50V	IC325	8-759-512-81	IC LH5160N-10L	
C502	1-126-052-11	ELECT 100uF 20%	25V	IC326	8-759-962-08	IC BA6208	
C503	1-130-495-00	MYLAR 0.1uF 5%	50V	IC327	8-759-176-97	IC M37451M8-334FP	
C506	1-126-052-11	ELECT 100uF 20%	25V	IC350	8-749-921-12	IC GP1F32T	
C507	1-130-495-00	MYLAR 0.1uF 5%	50V	IC552	8-759-982-03	IC RC5532D-D	
C509	1-162-806-11	CERAMIC 0.1uF 10%	50V	IC553	8-759-982-03	IC RC5532D-D	
C511	1-162-806-11	CERAMIC 0.1uF 10%	50V	IC555	8-759-981-85	IC RC4556D	
C521	1-110-335-11	MYLAR 100PF 5%	50V	IC652	8-759-982-03	IC RC5532D-D	
C526	1-136-270-11	FILM 47PF 5%	630V	IC653	8-759-982-03	IC RC5532D-D	
C527	1-136-270-11	FILM 47PF 5%	630V			< JACK >	
C530	1-136-192-11	FILM 0.0018uF 2%	100V	J361	1-569-443-21	JACK, PIN 4P (LINE OUT)	
C531	1-136-192-11	FILM 0.0018uF 2%	100V			< COIL >	
C532	1-136-192-11	FILM 0.0018uF 2%	100V	L302	1-410-513-11	INDUCTOR 22uH	
C533	1-126-077-11	ELECT 100uF 20%	63V	L304	1-408-403-00	INDUCTOR 3.3uH	
C534	1-130-297-91	FILM 0.01uF 5%	100V				
C551	1-136-165-00	FILM 0.1uF 5%	50V				
C552	1-136-165-00	FILM 0.1uF 5%	50V				

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L320	1-408-403-00	INDUCTOR	3. 3uH	R352	1-249-429-11	CARBON	10K 5% 1/4W
		< TRANSISTOR >		R521	1-215-459-00	METAL	39K 1% 1/6W
Q323	8-729-900-80	TRANSISTOR	DTA114ES	R522	1-215-459-00	METAL	39K 1% 1/6W
Q501	8-729-900-65	TRANSISTOR	DTA144ES	R523	1-215-459-00	METAL	39K 1% 1/6W
Q502	8-729-201-05	TRANSISTOR	2SC2878-B	R524	1-215-459-00	METAL	39K 1% 1/6W
Q503	8-729-141-30	TRANSISTOR	2SC3623A-LK	R525	1-215-451-00	METAL	18K 1% 1/6W
Q504	8-729-141-30	TRANSISTOR	2SC3623A-LK	R527	1-215-451-00	METAL	18K 1% 1/6W
Q505	8-729-141-30	TRANSISTOR	2SC3623A-LK	R531	1-259-467-11	CARBON	43K 5% 1/4W
Q601	8-729-900-65	TRANSISTOR	DTA144ES	R534	1-259-467-11	CARBON	43K 5% 1/4W
Q602	8-729-201-05	TRANSISTOR	2SC2878-B	R537	1-247-716-11	CARBON	1. 8K 5% 1/4W
Q603	8-729-141-30	TRANSISTOR	2SC3623A-LK	R538	1-247-716-11	CARBON	1. 8K 5% 1/4W
Q604	8-729-141-30	TRANSISTOR	2SC3623A-LK	R539	1-247-716-11	CARBON	1. 8K 5% 1/4W
Q605	8-729-141-30	TRANSISTOR	2SC3623A-LK	R540	1-247-716-11	CARBON	1. 8K 5% 1/4W
		< RESISTOR >		R541	1-247-725-11	CARBON	10K 5% 1/4W
R301	1-249-413-11	CARBON	470 5% 1/4W	R542	1-247-710-11	CARBON	560 5% 1/4W
R302	1-249-399-11	CARBON	33 5% 1/4W	R544	1-247-704-11	CARBON	220 5% 1/4W
R306	1-249-429-11	CARBON	10K 5% 1/4W	R545	1-259-488-81	CARBON	330K 5% 1/6W
R307	1-249-429-11	CARBON	10K 5% 1/4W	R546	1-247-704-11	CARBON	220 5% 1/4W
R308	1-249-429-11	CARBON	10K 5% 1/4W	R547	1-249-393-11	CARBON	10 5% 1/4W
R309	1-249-429-11	CARBON	10K 5% 1/4W	R548	1-249-409-11	CARBON	220 5% 1/4W
R310	1-249-429-11	CARBON	10K 5% 1/4W	R549	1-249-409-11	CARBON	220 5% 1/4W
R311	1-249-429-11	CARBON	10K 5% 1/4W	R550	1-249-402-11	CARBON	56 5% 1/4W
R312	1-249-429-11	CARBON	10K 5% 1/4W	R551	1-249-435-11	CARBON	33K 5% 1/4W
R313	1-249-429-11	CARBON	10K 5% 1/4W	R552	1-249-435-11	CARBON	33K 5% 1/4W
R314	1-249-429-11	CARBON	10K 5% 1/4W	R553	1-249-435-11	CARBON	33K 5% 1/4W
R315	1-249-429-11	CARBON	10K 5% 1/4W	R554	1-249-435-11	CARBON	33K 5% 1/4W
R316	1-249-429-11	CARBON	10K 5% 1/4W	R555	1-249-425-11	CARBON	4. 7K 5% 1/4W
R317	1-249-429-11	CARBON	10K 5% 1/4W	R556	1-249-425-11	CARBON	4. 7K 5% 1/4W
R319	1-247-903-91	CARBON	1M 5% 1/4W	R557	1-249-435-11	CARBON	33K 5% 1/4W
R320	1-249-417-11	CARBON	1K 5% 1/4W	R558	1-249-435-11	CARBON	33K 5% 1/4W
R321	1-249-417-11	CARBON	1K 5% 1/4W	R559	1-249-425-11	CARBON	4. 7K 5% 1/4W
R322	1-249-417-11	CARBON	1K 5% 1/4W	R560	1-249-425-11	CARBON	4. 7K 5% 1/4W
R323	1-249-417-11	CARBON	1K 5% 1/4W	R561	1-249-425-11	CARBON	4. 7K 5% 1/4W
R324	1-249-417-11	CARBON	1K 5% 1/4W	R621	1-215-459-00	METAL	39K 1% 1/6W
R325	1-249-417-11	CARBON	1K 5% 1/4W	R622	1-215-459-00	METAL	39K 1% 1/6W
R331	1-249-405-11	CARBON	100 5% 1/4W	R623	1-215-459-00	METAL	39K 1% 1/6W
R340	1-249-441-11	CARBON	100K 5% 1/4W	R624	1-215-459-00	METAL	39K 1% 1/6W
R341	1-249-417-11	CARBON	1K 5% 1/4W	R625	1-215-451-00	METAL	18K 1% 1/6W
R342	1-249-417-11	CARBON	1K 5% 1/4W	R627	1-215-451-00	METAL	18K 1% 1/6W
R343	1-249-417-11	CARBON	1K 5% 1/4W	R631	1-259-467-11	CARBON	43K 5% 1/4W
R344	1-249-417-11	CARBON	1K 5% 1/4W	R634	1-259-467-11	CARBON	43K 5% 1/4W
R345	1-249-417-11	CARBON	1K 5% 1/4W	R637	1-247-716-11	CARBON	1. 8K 5% 1/4W
R346	1-249-417-11	CARBON	1K 5% 1/4W	R638	1-247-716-11	CARBON	1. 8K 5% 1/4W
R347	1-249-411-11	CARBON	330 5% 1/4W	R639	1-247-716-11	CARBON	1. 8K 5% 1/4W
R348	1-249-441-11	CARBON	100K 5% 1/4W	R640	1-247-716-11	CARBON	1. 8K 5% 1/4W
R349	1-249-425-11	CARBON	4. 7K 5% 1/4W	R641	1-247-725-11	CARBON	10K 5% 1/4W
R350	1-249-441-11	CARBON	100K 5% 1/4W	R642	1-247-710-11	CARBON	560 5% 1/4W
R351	1-249-425-11	CARBON	4. 7K 5% 1/4W	R644	1-247-704-11	CARBON	220 5% 1/4W
				R645	1-259-488-81	CARBON	330K 5% 1/6W
				R646	1-247-704-11	CARBON	220 5% 1/4W

MAIN POWER POWER SW

Ref. No.	Part No.	Description	Remark
R647	1-249-393-11	CARBON 10 5% 1/4W	
R648	1-247-704-11	CARBON 220 5% 1/4W	
R649	1-247-704-11	CARBON 220 5% 1/4W	
R650	1-249-402-11	CARBON 56 5% 1/4W	
R659	1-249-425-11	CARBON 4.7K 5% 1/4W	
R660	1-249-425-11	CARBON 4.7K 5% 1/4W	
R661	1-249-425-11	CARBON 4.7K 5% 1/4W	
< VIBRATOR >			
X331	1-579-161-11	VIBRATOR, CRYSTAL (45MHz)	
X355	1-577-377-11	VIBRATOR, CERAMIC (10MHz)	

*	A-4649-598-A	POWER BOARD, COMPLETE	

*	4-941-237-01	HEAT SINK	
< CAPACITOR >			
C201	1-124-130-00	ELECT 100uF 20% 63V	
C202	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C203	1-126-059-11	ELECT 10uF 20% 50V	
C204	1-124-360-00	ELECT 1000uF 20% 16V	
C205	1-124-523-11	ELECT 4700uF 20% 16V	
C206	1-126-059-11	ELECT 10uF 20% 50V	
C207	1-123-369-00	ELECT 4.7uF 20% 50V	
C208	1-126-059-11	ELECT 10uF 20% 50V	
C209	1-126-026-11	ELECT 470uF 20% 16V	
C210	1-126-103-11	ELECT 470uF 20% 16V	
C211	1-126-541-11	ELECT 330uF 20% 16V	
C214	1-124-120-11	ELECT 220uF 20% 25V	
C217	1-136-165-00	FILM 0.1uF 5% 50V	
C225	1-136-165-00	FILM 0.1uF 5% 50V	
C226	1-126-101-11	ELECT 100uF 20% 16V	
C227	1-126-677-51	ELECT 1000uF 20% 16V	
C228	1-136-165-00	FILM 0.1uF 5% 50V	
C241	1-136-165-00	FILM 0.1uF 5% 50V	
C242	1-136-165-00	FILM 0.1uF 5% 50V	
C243	1-136-165-00	FILM 0.1uF 5% 50V	
C244	1-136-165-00	FILM 0.1uF 5% 50V	
C245	1-136-165-00	FILM 0.1uF 5% 50V	
C280	1-136-177-00	FILM 1uF 5% 50V	
C281	1-164-159-11	CERAMIC 0.1uF 50V	
C282	1-164-159-11	CERAMIC 0.1uF 50V	
C311	1-123-369-00	ELECT 4.7uF 20% 50V	
< CONNECTOR >			
* CN221	1-564-510-11	PLUG, CONNECTOR 7P	
* CN222	1-564-510-21	PLUG, CONNECTOR 7P	

Ref. No.	Part No.	Description	Remark
* CN224	1-564-513-11	PLUG, CONNECTOR 10P	
< DIODE >			
D201	8-719-200-02	DIODE 10E2	
D202	8-719-200-02	DIODE 10E2	
D203	8-719-200-02	DIODE 10E2	
D204	8-719-200-02	DIODE 10E2	
D205	8-719-200-02	DIODE 10E2	
D206	8-719-987-63	DIODE 1N4148M	
D207	8-719-109-85	DIODE RD5. 1ES-B2	
D211	8-719-110-08	DIODE RD8. 2ES-B2	
D225	8-719-934-31	DIODE HZS36-3L	
D322	8-719-987-63	DIODE 1N4148M	
< IC >			
IC201	8-759-630-21	IC M5290P-16	
IC202	8-759-145-58	IC uPC4558C	
IC203	8-759-605-00	IC M5F78M07L	
< TRANSISTOR >			
Q204	8-729-900-61	TRANSISTOR DTA114ES	
Q206	8-729-905-67	TRANSISTOR 2SD1944-K	
Q207	8-729-140-96	TRANSISTOR 2SD774-34	
Q208	8-729-140-96	TRANSISTOR 2SD774-34	
Q218	8-729-140-97	TRANSISTOR 2SB734-34	
< RESISTOR >			
R201	1-259-444-11	CARBON 4.7K 5% 1/6W	
R202	1-259-444-11	CARBON 4.7K 5% 1/6W	
R203	1-249-424-11	CARBON 3.9K 5% 1/4W	
△R204	1-212-869-00	FUSIBLE 33 5% 1/4W F	
R205	1-249-435-11	CARBON 33K 5% 1/4W	
R206	1-249-413-11	CARBON 470 5% 1/4W	
R208	1-259-440-11	CARBON 3.3K 5% 1/6W	
R216	1-259-404-11	CARBON 100 5% 1/6W	
R217	1-259-452-11	CARBON 10K 5% 1/6W	
R218	1-259-428-11	CARBON 1K 5% 1/6W	
R219	1-249-393-11	CARBON 10 5% 1/4W	
R225	1-249-441-11	CARBON 100K 5% 1/4W	

*	1-647-198-12	POWER SW BOARD	

< CAPACITOR >			
△C701	1-161-744-00	CERAMIC 0.01uF 400V	
< CONNECTOR >			
CN751	1-690-123-51	REED (WITH CONNECTOR) (2 CORE)	

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< SWITCH >				ACCESSORIES & PACKING MATERIALS *****	
△S701	1-572-267-51	SWITCH, PUSH (AC POWER) (1 KEY) (POWER ON/OFF)			1-465-593-11	REMOTE COMMANDER (RM-D991)	
		*****		△	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
*	1-647-200-12	POWER TRANSFORMER BOARD *****		△	1-569-008-11	ADAPTER, CONVERSION 2P (EA)	
		< CAPACITOR >			1-558-271-11	CORD, CONNECTION	
C702	1-164-159-11	CERAMIC 0.1uF 50V			1-590-925-31	CORD, CONNECTION	
		< CONNECTOR >			3-707-584-01	COVER, BATTERY	
CN701	1-564-321-00	PIN, CONNECTOR 2P			3-755-832-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/SPANISH/CHINESE) (Canadian, AEP, E, EA, AUS)	
* CN702	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P			3-755-832-21	MANUAL, INSTRUCTION (ENGLISH) (US)	
		< SWITCH >			3-755-832-41	MANUAL, INSTRUCTION (GERMAN/DUTCH/ITALIAN/PORTUGUESE) (AEP)	
△S702	1-571-722-11	SWITCH, VOLTAGE SELECTION (E, EA)			3-755-832-71	MANUAL, INSTRUCTION (GERMAN) (G)	
		*****		*	4-944-761-02	CUSHION	
*	1-647-197-11	TIMER SW BOARD *****			4-956-951-21	INDIVIDUAL CARTON	
		< SWITCH >			4-958-936-01	SPACER	
S851	1-570-157-51	SWITCH, SLIDE (TIMER)			*****		
		*****			HARDWARE LIST *****		
		MISCELLANEOUS *****		#1	7-621-255-15	SCREW +P 2X3	
△62	1-559-583-21	CORD, POWER (US, Canadian)		#2	7-682-547-09	SCREW +B 3X6	
△	1-575-651-21	CORD, POWER (AEP, G)		#3	7-682-548-09	SCREW +BVTT 3X8 (S)	
△	1-696-027-11	CORD, POWER (E, EA)		#4	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
△	1-696-845-11	CORD, POWER (AUS)		#5	7-685-871-01	SCREW +BVTT 3X6 (S)	
63	1-696-995-11	WIRE (FLAT TYPE) (11 CORE)					
64	1-696-998-11	WIRE (FLAT TYPE) (23 CORE)					
65	1-696-996-11	WIRE (FLAT TYPE) (7 CORE)					
66	1-696-997-11	WIRE (FLAT TYPE) (15 CORE)					
* 113	1-452-538-11	MAGNET					
△151	8-848-144-11	DEVICE, OPTICAL KSS-240A					
152	1-575-001-11	WIRE, FLAT TYPE (12 CORE)					
M101	X-4917-504-1	MOTOR ASSY (SLIDE)					
M102	X-4917-523-3	BASE (OUTSERT) ASSY (SPINDLE MOTOR)					
M151	A-4604-363-A	MOTOR (L) ASSY					
△T701	1-423-491-11	TRANSFORMER, POWER (US, Canadian)					
△	1-423-493-11	TRANSFORMER, POWER (AEP, G, AUS)					
△	1-423-494-11	TRANSFORMER, POWER (E, EA)					

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