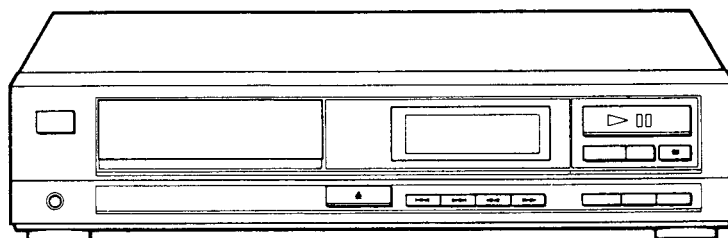


CDP-110

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model



SPECIFICATIONS

COMPACT DISC PLAYER

System Compact disc digital audio system

Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output: max. 44.6 μ W*¹

*¹ This output is the value measured at a distance of about 200mm from the objective lens surface on the optical pick-up Block.

- Laser output: max. 0.4mW*²

*² This output is the value measured at a distance of about 1.6mm from the objective lens surface on the optical pick-up Block.

Frequency response

US, Canadian model: 2 Hz – 20 kHz (± 0.5 dB).
AEP, UK model: 2 Hz – 20 kHz (± 0.5 dB).

Signal to noise ratio

More than 95 dB

Dynamic range

More than 93 dB

Harmonic distortion

Less than 0.005% (at 1 kHz)

Channel separation

More than 90 dB

Wow and flutter

Below measurable limit ($\pm 0.001\%$ W PEAK)

	Type	Output level	Load impedance
LINE OUT	Phono jack	2 V (50 kilohms)	more than 10 kilohms
HEADPHONES	Stereo jack	4.5 mW (32 ohms)	—

Model Name Using Similar Mechanism

CDP-310

Mechanism Type

CDM6A-5

General

Power requirements

UK model: 240V AC, 50/60Hz
AEP model: 220V AC, 50/60Hz
US, Canadian model: 120 VAC, 60Hz

Power consumption

12 W

Dimensions

Approx. 430 × 100 × 335 mm (w/h/d)

(17 × 4 × 13¹/₄ inches)

including projecting parts and controls

Weight

US, Canadian model: Approx 4.6kg (10 lbs 2 oz), net.

AEP, UK model: Approx 4.7kg (10 lbs 6 oz), net.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND 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 A LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHEMATIQUES 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.

COMPACT DISC PLAYER
SONY®

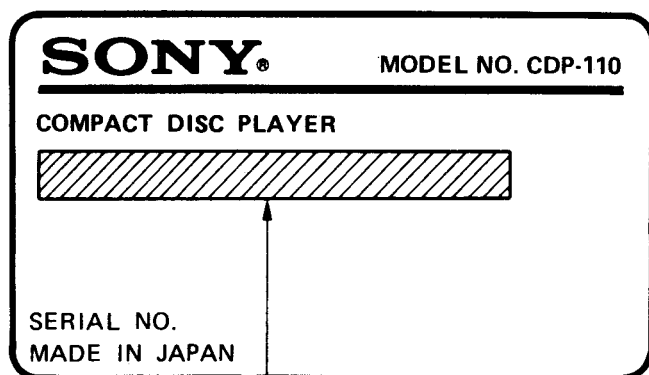


FEATURES

- PROGRAM play for playing the selections in a desired order.
- SHUFFLE play for playing the selections in a random order.
- REPEAT function for a single selection, the whole disc, PROGRAM play, or SHUFFLE play.
- AUTO SPACE function for creating a blank space of 3 seconds between each selection.
- Easy-to-read display window shows the selection number being played, elapsed playing time, and the remaining time.
- The selections for REPEAT and SHUFFLE play, and the AUTO SPACE function are also indicated.

MODEL IDENTIFICATION

— Printed Specifications on Jack Plate —



US, Canadian model: AC: 120V 60Hz 12W
AEP model: AC: 220V 50/60Hz 12W
UK model: AC: 240V 50/60Hz 12W

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TROUBLESHOOTING

The following checks will assist in the correction of most problems which you may encounter with your unit. Before going through the check list below, first refer back to the connection and operating procedures. Should any problem persist after you have made these checks, consult your nearest Sony service facility.

Symptom	Cause	Countermeasures
Play does not begin.	The disc is incorrectly inserted.	Insert the disc correctly.
	The disc is extremely dirty.	Clean the disc.
	The disc is inserted upside down.	Insert the disc with the label surface up.
	▶ (on the remote commander) has been pressed.	Press ▶ (on the remote commander) again to release pause.
	Moisture condensation.	Leave the player turned on for about an hour.

SAFETY CHECK-OUT (US Model)

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 0.5 mA (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 0.75 V, 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 2 V AC range are suitable. (See Fig. A)

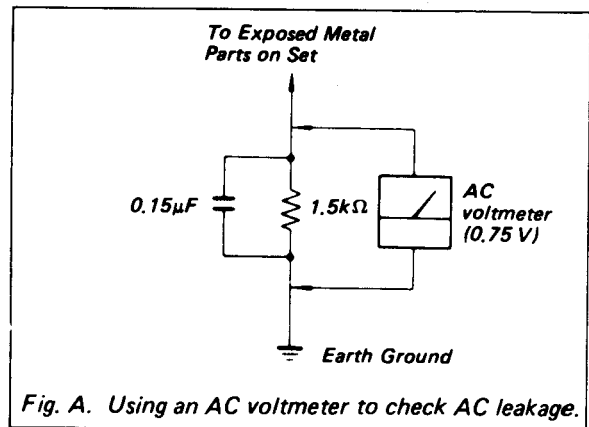


Fig. A. Using an AC voltmeter to check AC leakage.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

CAUTION

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

1. Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output: max. 44.6 μ W*

* This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.

2. During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit. If there is a breakdown in the APC circuit (including laser diode), replace the entire Optical Pick-up Block (including APC board).

BESKYTTELSE AF ØJNE MOD LASERSTRÅLING UNDER SERVICE

I dette apparat anvendes laserlys. Derfor skal nedenstående instruktioner nøje følges under service.

Følg iverigt instruktionerne i servicemanualen.

ADVARSEL!!

Under service må øjnene ikke komme nær objektiv-linsen på den optiske pick-up enhed. I tilfælde af at det er nødvendigt at kontrollere udsendelsen af laserlys, skal det ske i en afstand af mere end 25 cm fra den optiske pick-up.

1. Laser-dioe data

- Materiale: GaAlAs
- Bølgelængde: 780 nm
- Udstråling: Kontinuerlig
- Laseroutput: Max. 0,4 mW*

* Målt i 1,6 mm afstand fra overfladen af objektiv-linsen på den optiske pick-up enhed.

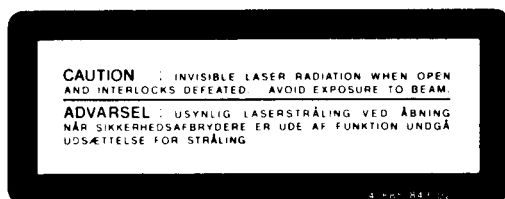
- Klassifikation: Klasse IIIb.

2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laser-dioden) bryder ned, skal hele den optiske pick-up enhed (incl. APC printkortet) udskiftes.

LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

1. Advarsel Mærkning



VAROITUS: Laite sisältää, laserdiodin, joka lähettää (näkyvätöntä) silmille vaarallista lasersäteilyä.

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

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

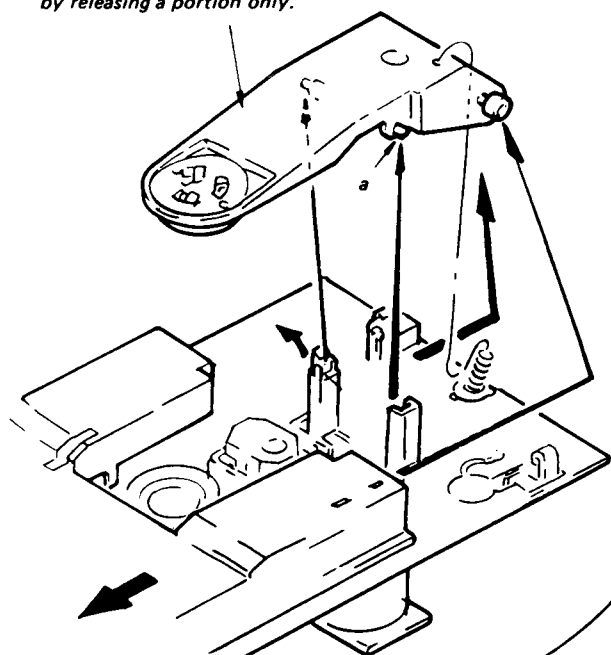
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

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

NOTES ON CHECKING LASER DIODE LIGHT EMISSION

The laser beam on this set is converged by the objective lens in the optical block so that it focuses on the disc reflective surface. Therefore, when checking light emission of the laser diode, be sure to keep the eyes more than 30 cm away from the objective lens.

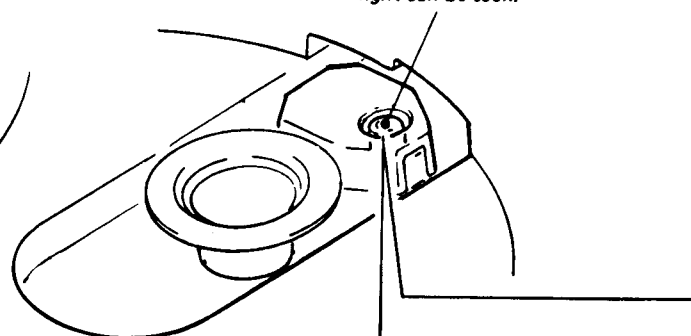
- 1 Release chucking arm.
This figure shows the entire chucking arm released, but checking can be done by releasing a portion only.



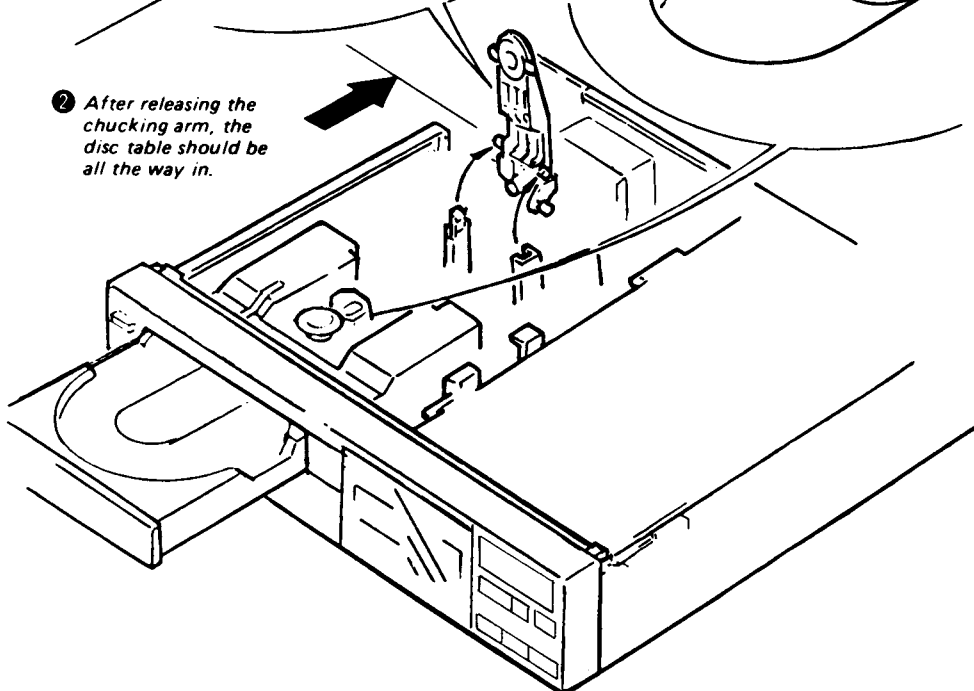
CHECKING LASER DIODE AND FOCUS SEARCH OPERATION

Check if the following operation is performed by looking at the objective lens after releasing the chucking arm and turning the POWER switch on. (Optical block should be at the innermost circumference when checking.)

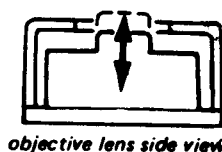
- 2 When the POWER switch is turned on, diffused laser light can be seen.



- 3 After releasing the chucking arm, the disc table should be all the way in.



- 4 Objective lens moves up and down (2 - 3 times)

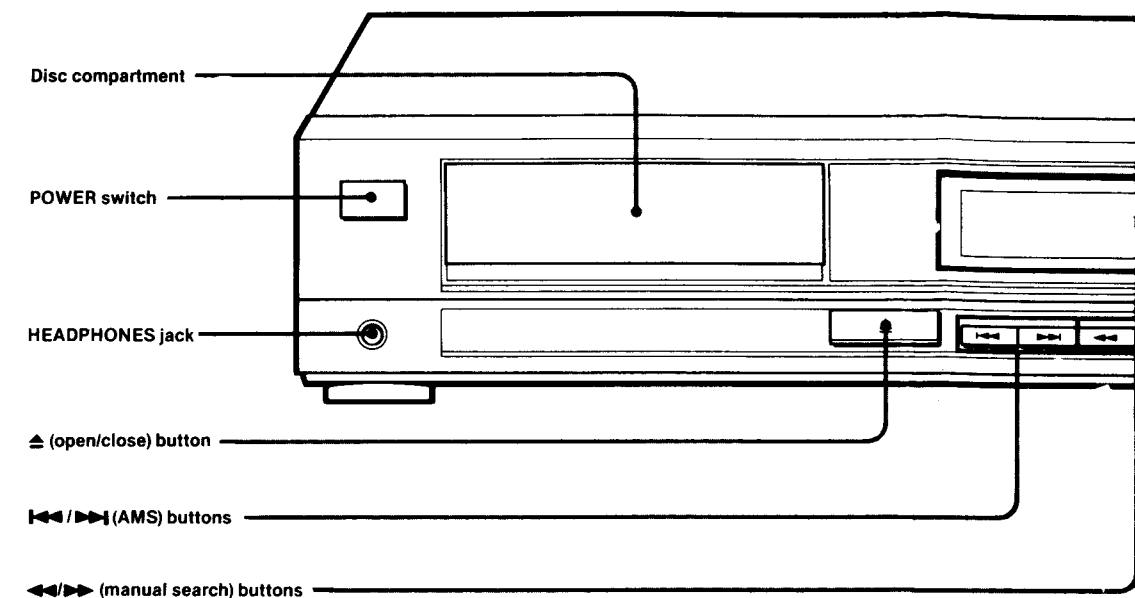


objective lens side view

1-1. FUNCTION OF CONTROLS

SECTION 1 OUTLINE

FRONT PANEL



DISPLAY WINDOW

RMS (program) indicator

Lights up during PROGRAM play.

DISC indicator

Lights up when the disc compartment is closed with a disc in place or when the disc compartment is open.

▶ indicator

Lights up while playing.

▶ || indicator

Lights up when play is paused.

Track (selection) indicator

Shows the track number of the selection being played. When the disc compartment is closed with a disc in place, this indicator shows the total selection number of the disc.

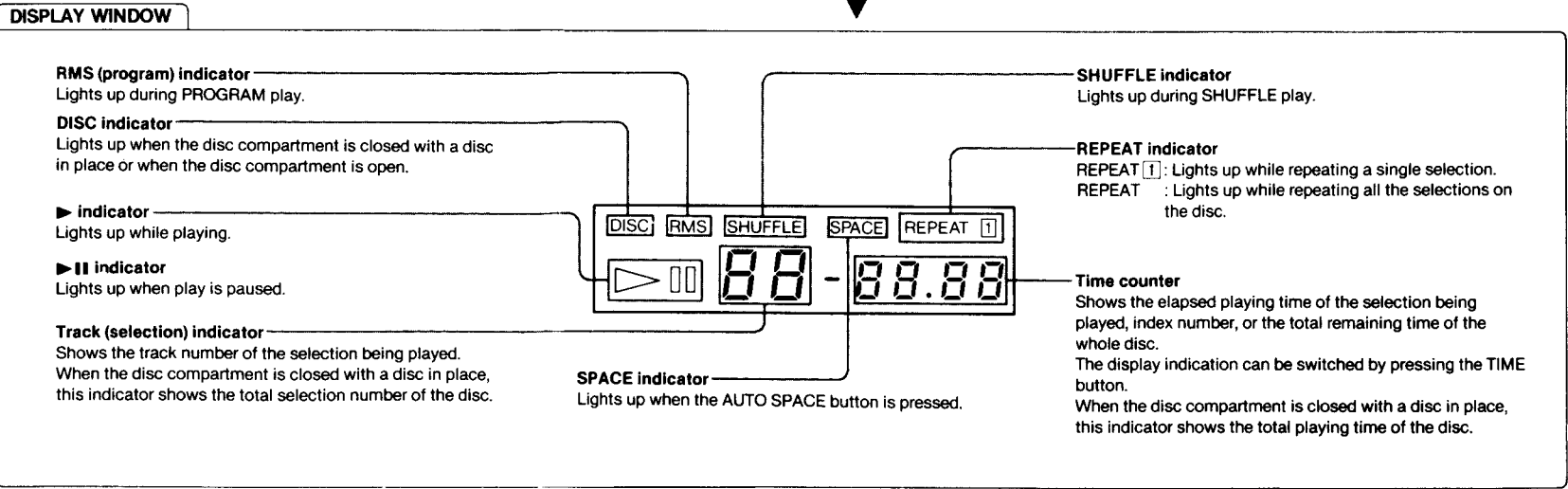
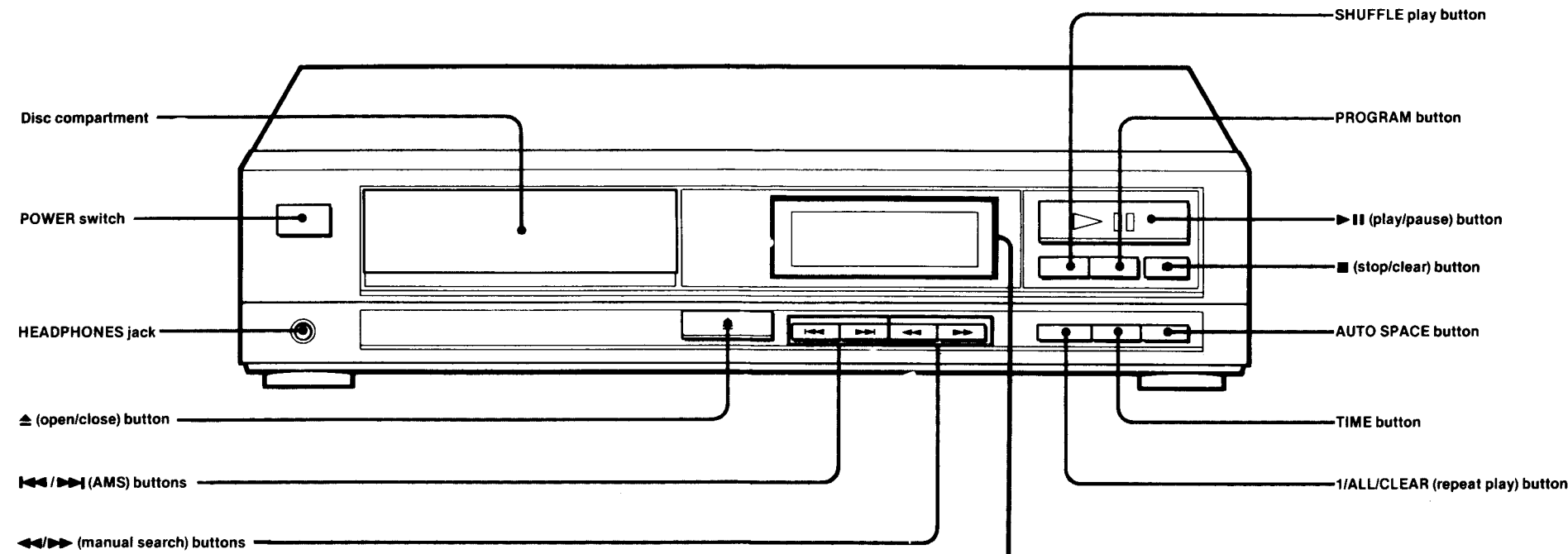
SPACE indicator

Lights up when the AUTO

SECTION 1
OUTLINE

1-1. FUNCTION OF CONTROLS

FRONT PANEL



SECTION 2 ADJUSTMENTS

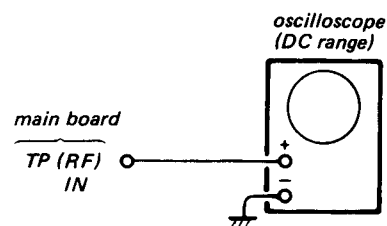
ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use test disc YEDS-1, YEDS-18 unless otherwise indicated.
3. Use the oscilloscope with more than 10 M Ω impedance.
4. Make a test mode by grounding AF ADJ test terminal near IC5 as shown below.

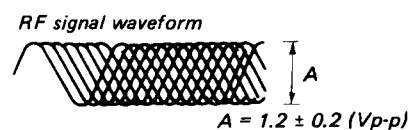
Focus Bias Adjustment

This adjustment should be made when replacing TOP (T-type Optical Pick-up).

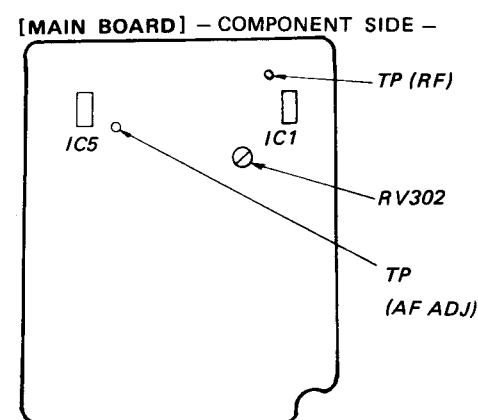
Procedure:



1. Connect oscilloscope to test points TP (RF).
2. Turn POWER switch on.
3. Put disc (YEDS-1 or YEDS-18) in and press ► button.
4. Adjust RV302 for an optimum waveform eye pattern or so that the peak is maximum. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.



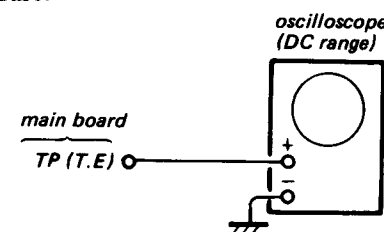
Adjustment Location: main board



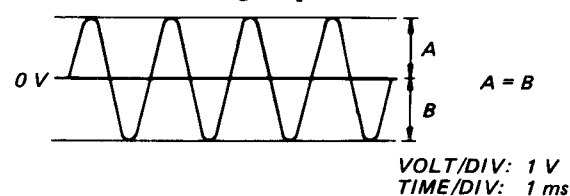
E-F Balance Adjustment

This adjustment should be made when replacing TOP (T-type Optical Pick-up).

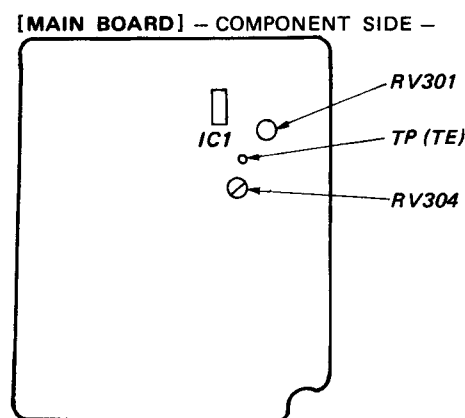
Procedure:



1. Connect oscilloscope to test point TP (T E).
2. Turn RV304 fully counterclockwise (minimum).
3. Turn POWER switch on.
4. Put disk (YEDS-1 or YEDS-18) in and press ► or ▲ button.
5. Adjust RV301 so that the traverse waveform is symmetrical above and below the base line.
6. Set RV304 to its original position.

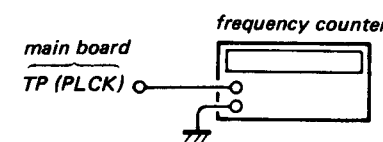


Adjustment Location: main board



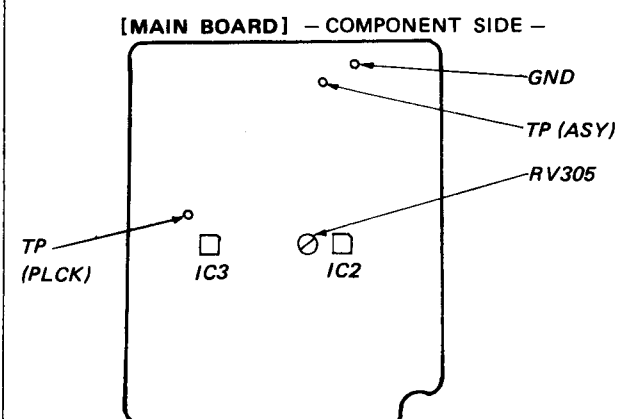
RF PLL Frequency Adjustment/Lock Frequency Check

Procedure:



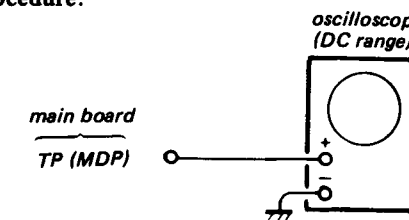
1. Connect test point (ASY) to ground with jumper wire.
2. Turn POWER switch on.
3. Adjust RV305 so that the reading on frequency counter is 4.3218 MHz.
4. Remove lead wire connecting TP(ASY) and ground.
5. Put disc (YEDS-1 or YEDS-18) in and press ► button.
6. Confirm that the reading on frequency counter is 4.3218 MHz at TP (PLCK).

Adjustment Location: main board

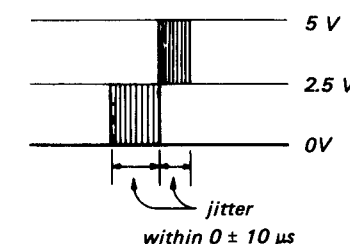


CLV Phase Lock Check

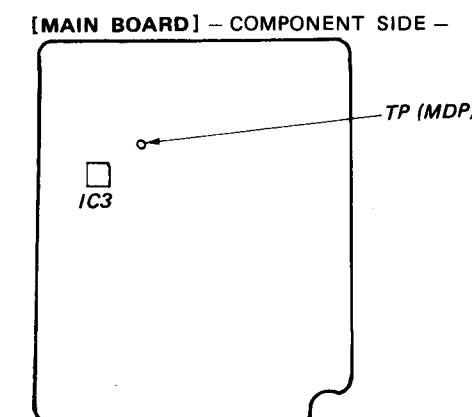
Procedure:



1. Connect oscilloscope to test point TP (MDP).
2. Turn POWER switch on.
3. Put disc (YEDS-1 or YEDS-18) in and press ► button.
4. Check that the waveform is as shown in the figure below.



Adjustment Location: main board



Remove grounding wire from AF ADJ test terminal after the adjustments.

REFERENCE

Focus/Tracking G

A frequency order to perform. However, this slightly off, there perform this adjust.

Focus/tracking up (vertical and noise and mecha operates.

However, as th the point where b

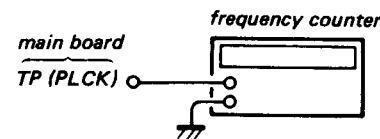
- When gain is device operates
- When gain is mechanical sho
- When gain adj appear.

Symptoms

- The time until m becomes longer f →►PLAY or aut selection (◀▶) pressed. (Normal about 2 seconds).
- Music does not st disc continues to for STOP →►PL automatic selecti ►▶ buttons pres
- Disc table opens after STOP →►P
- Sound is interrup ing PLAY. Or ti er display stops p ing.
- More poise durin device operation.

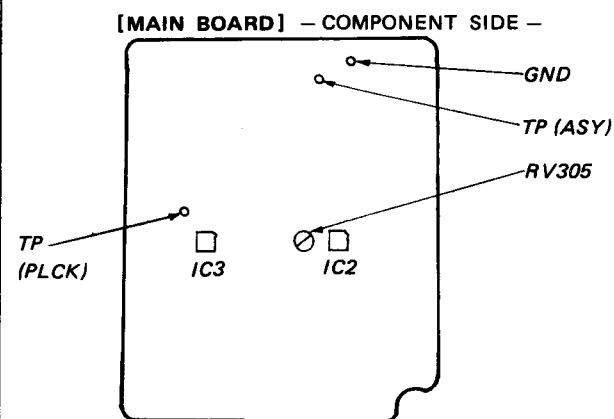
RF PLL Frequency Adjustment/Lock Frequency Check

Procedure:



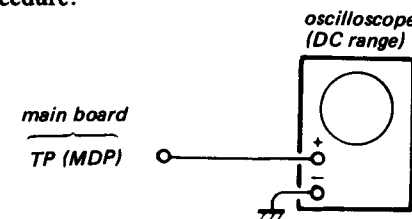
1. Connect test point (ASY) to ground with jumper wire.
2. Turn POWER switch on.
3. Adjust RV305 so that the reading on frequency counter is 4.3218 MHz.
4. Remove lead wire connecting TP(ASY) and ground.
5. Put disc (YEDS-1 or YEDS-18) in and press ► button.
6. Confirm that the reading on frequency counter is 4.3218 MHz at TP (PLCK).

Adjustment Location: main board

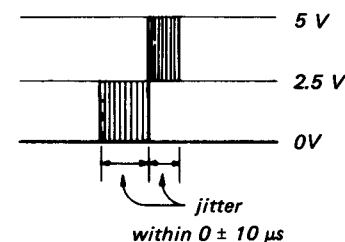


CLV Phase Lock Check

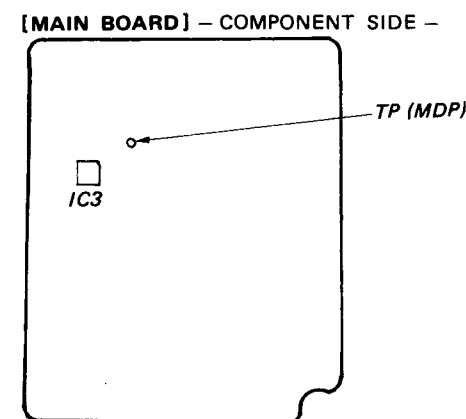
Procedure:



1. Connect oscilloscope to test point TP (MDP).
2. Turn POWER switch on.
3. Put disc(YEDS-1 or YEDS-18) in and press ► button.
4. Check that the waveform is as shown in the figure below.



Adjustment Location: main board



Remove grounding wire from AF ADJ test terminal after the adjustments.

REFERENCE

Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operates.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

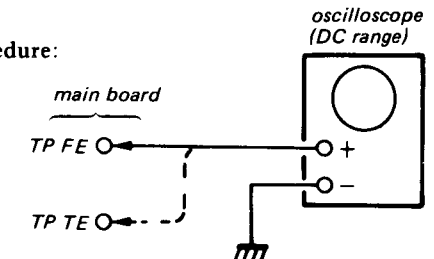
	Gain	Focus	Tracking
Symptoms			
• The time until music starts becomes longer for STOP → ►PLAY or automatic selection (◄◄ ►► buttons pressed. (Normally takes about 2 seconds.)		low	low or high
• Music does not start and disc continues to rotate for STOP → ►PLAY or automatic selection (◄◄ ►► buttons pressed.)		—	low
• Disc table opens shortly after STOP → ►PLAY.		low or high	—
• Sound is interrupted during PLAY. Or time counter display stops progressing.		—	low
• More poise during 2-axis device operation.		high	high

The following is a simple adjustment method.

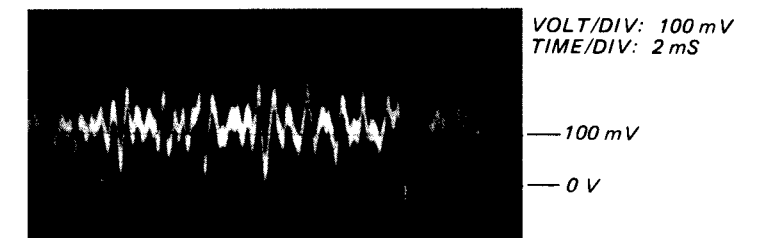
— Simple Adjustment —

Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

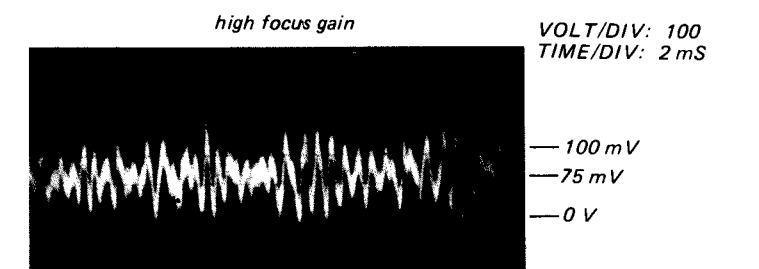
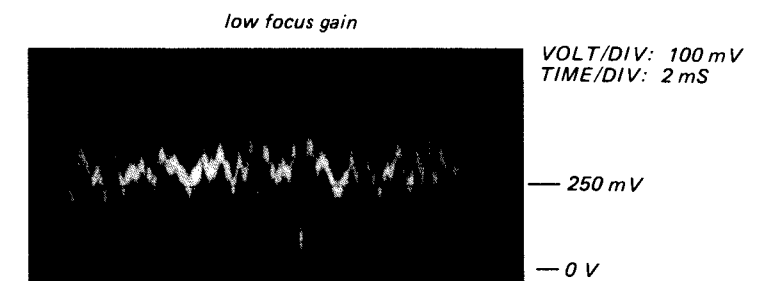
Procedure:



1. Keep the set horizontal.
(If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.)
2. Insert disc (YEDS-1) and press ►PLAY button.
3. Connect oscilloscope to main amp board TP FE.
4. Adjust RV303 so that the waveform is as shown in the figure below. (focus gain adjustment)

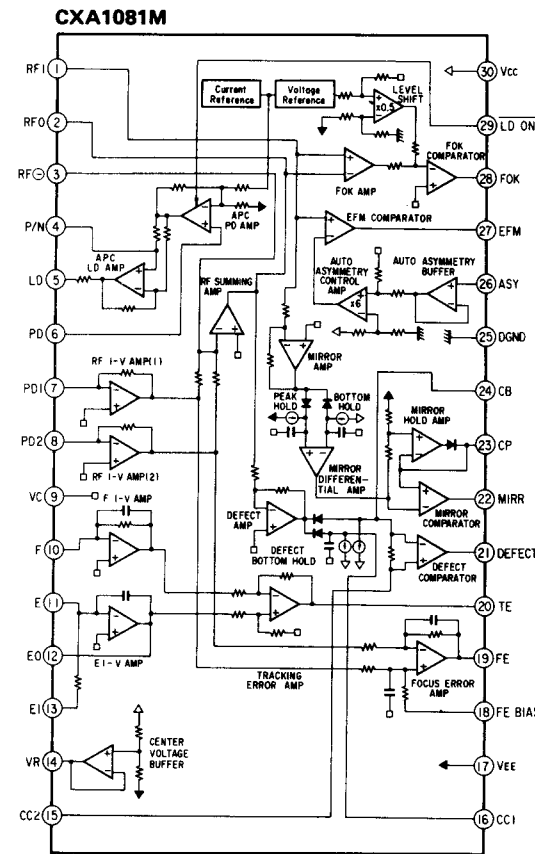


- Inccorrent Examples (DC level changes more than on adjusted waveform)

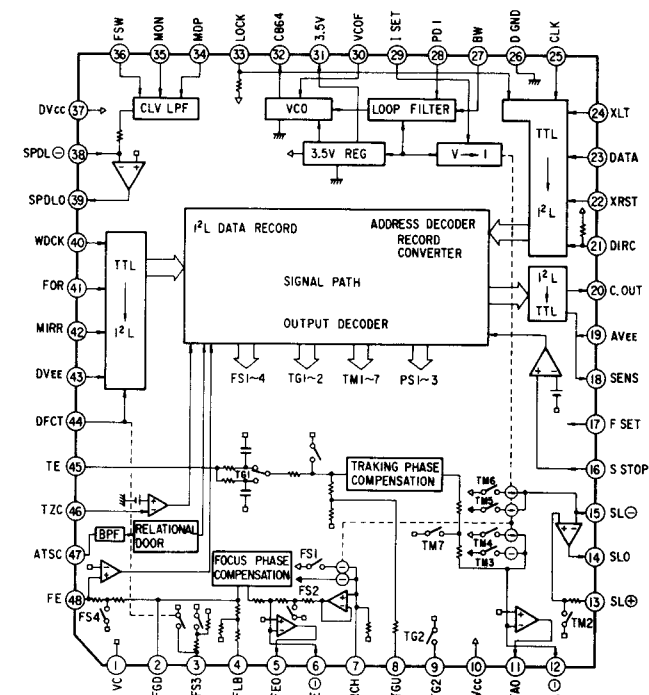


SECTION 3 DIAGRAMS

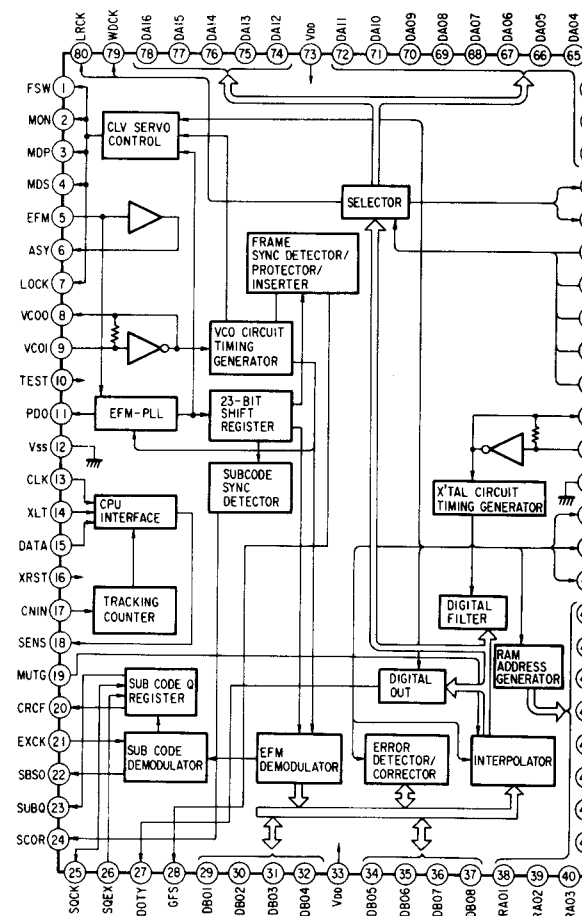
3-1. IC BLOCK DIAGRAMS



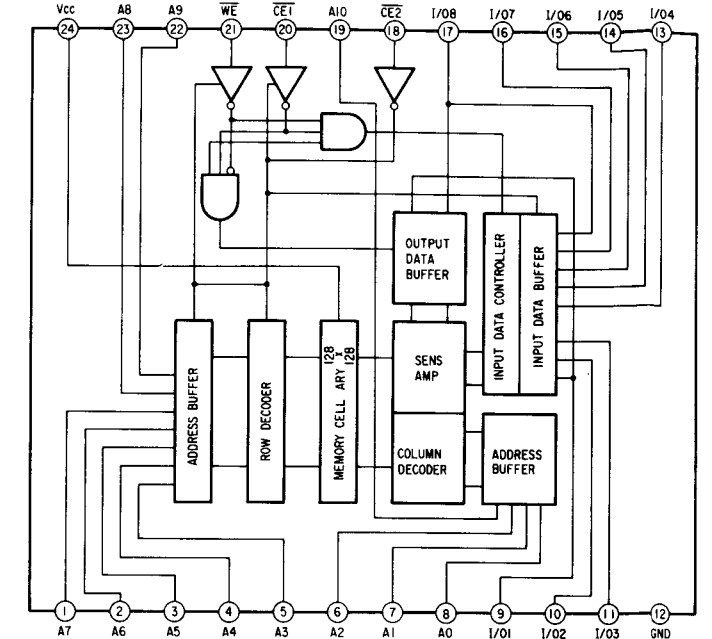
CXA1082AQ



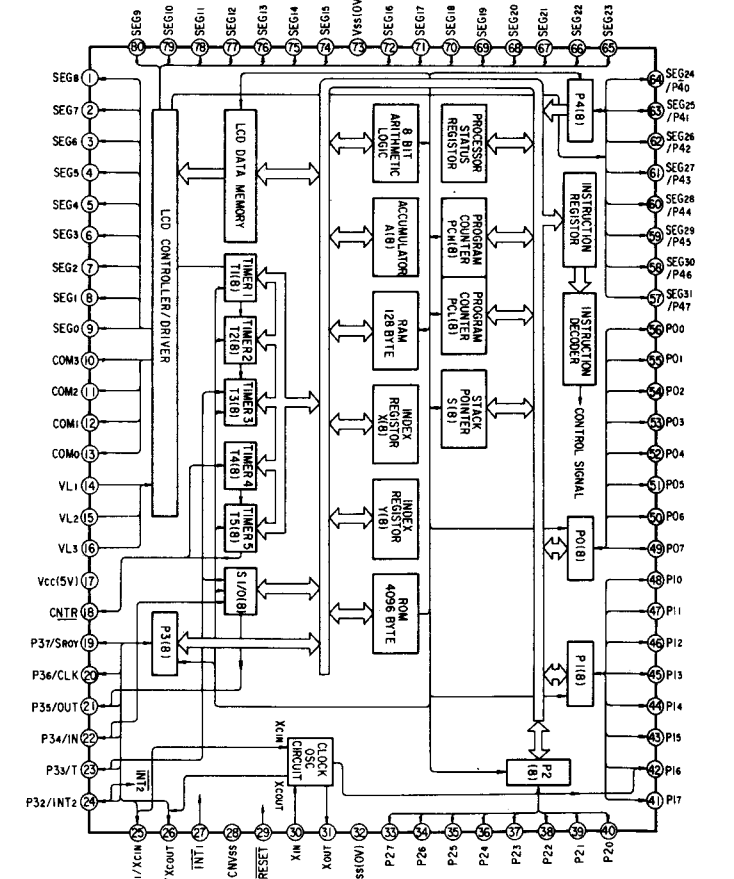
CXD1135Q



LC3516AML-15



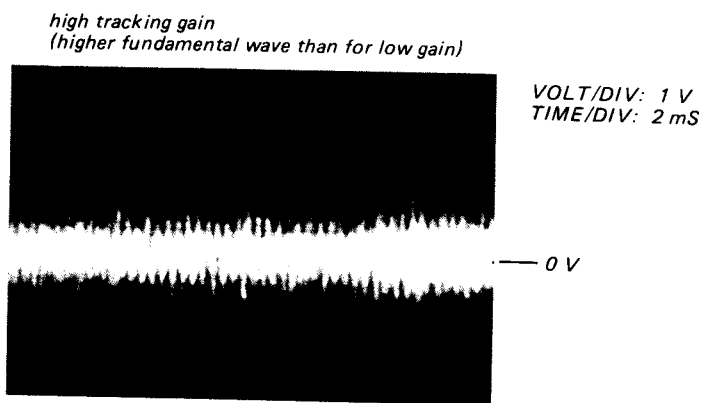
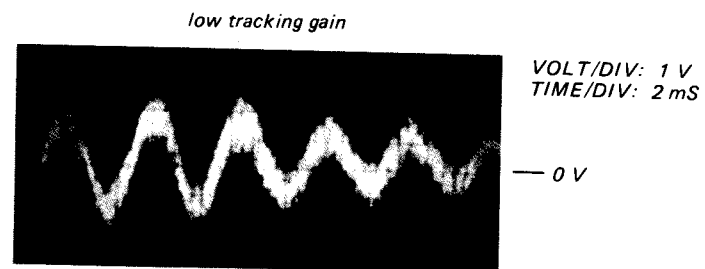
M50930-432FP



- Connect oscilloscope to main board TP TE.
- Adjust RV304 so that the waveform is as shown in the figure below. (tracking gain adjustment)

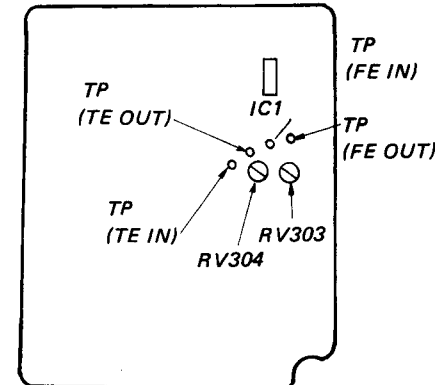


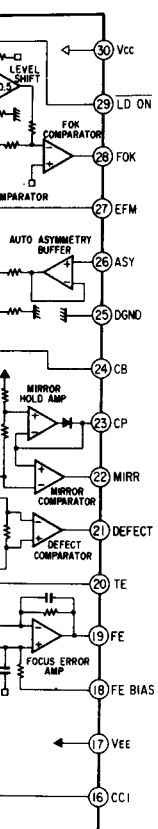
- Incorrect Examples (fundamental wave appears)



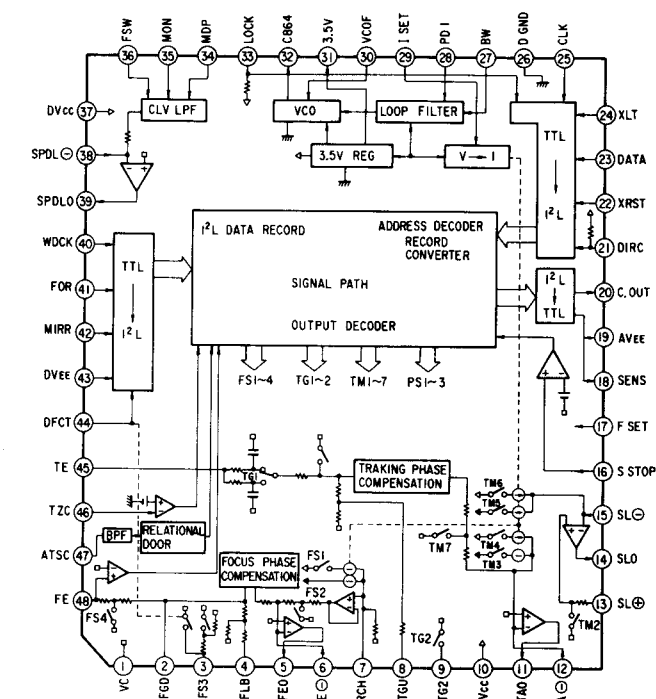
Adjustment Location: main board

[MAIN BOARD] - COMPONENT SIDE -

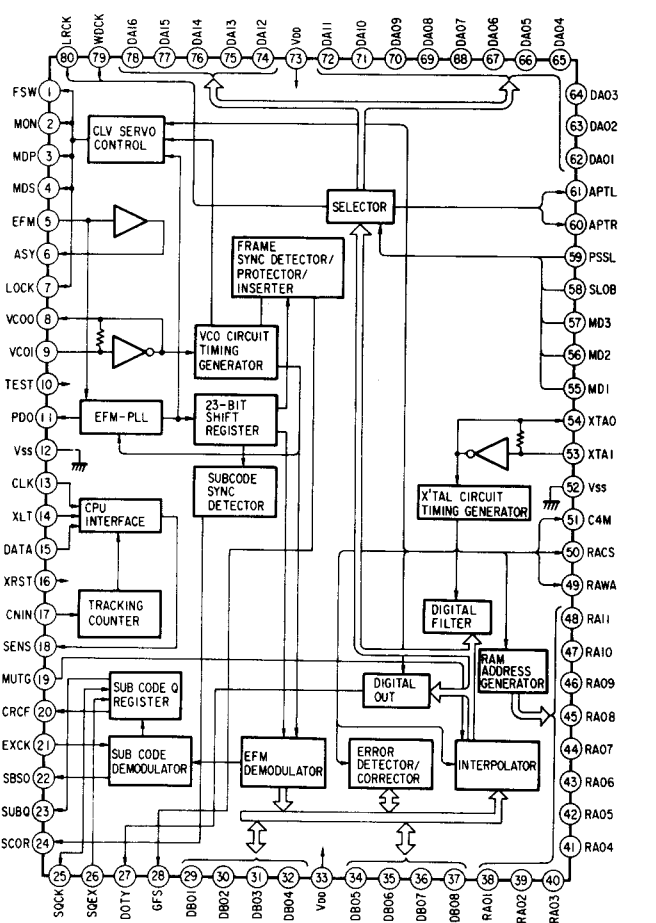




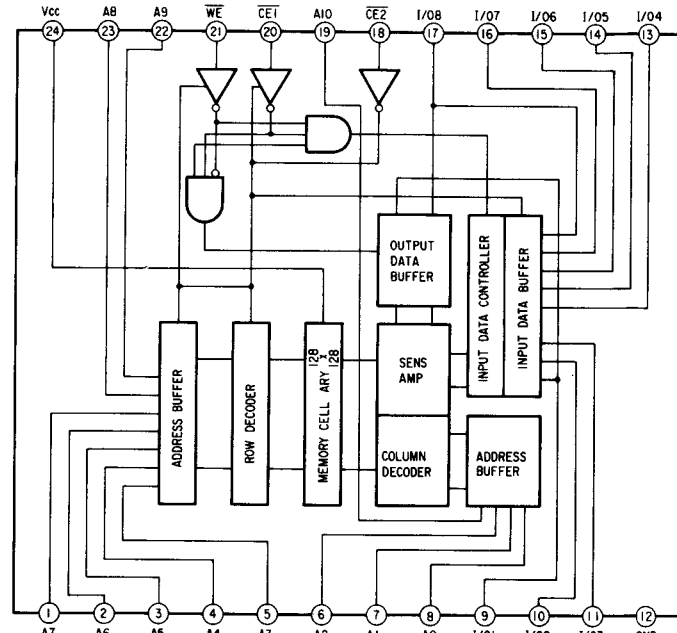
CXA1082AQ



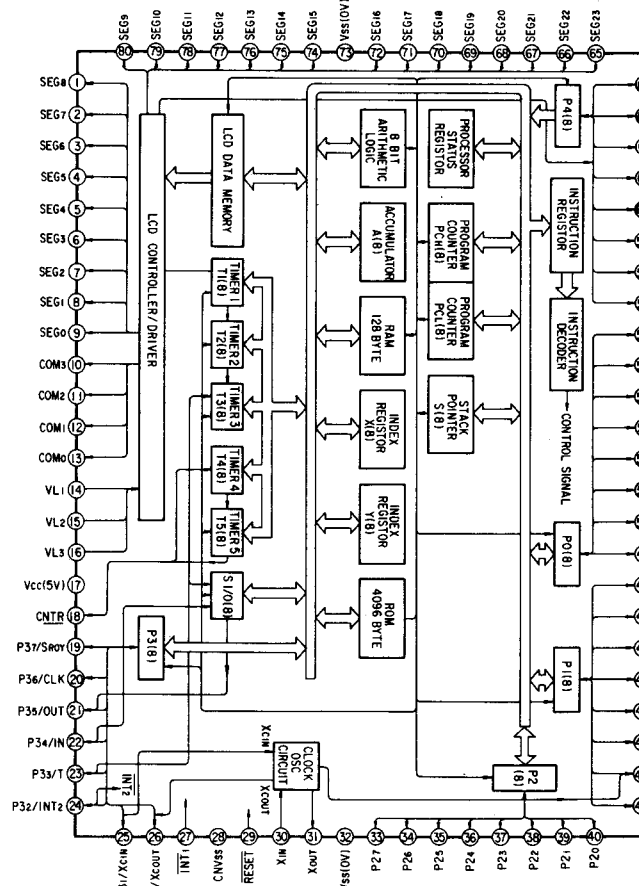
CXD1135Q



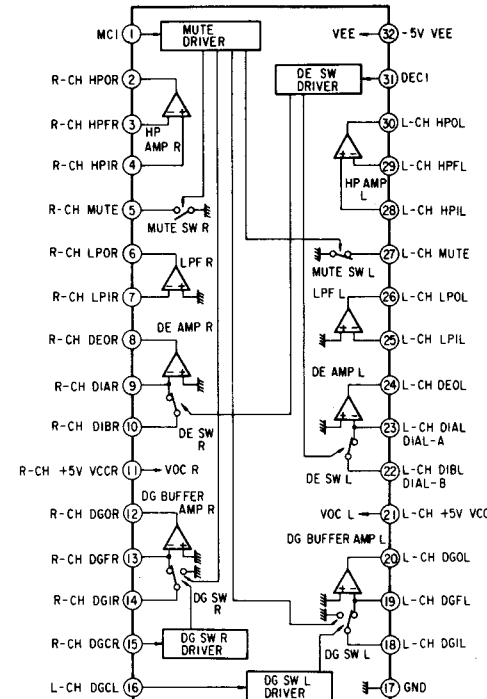
LC3516AML-15



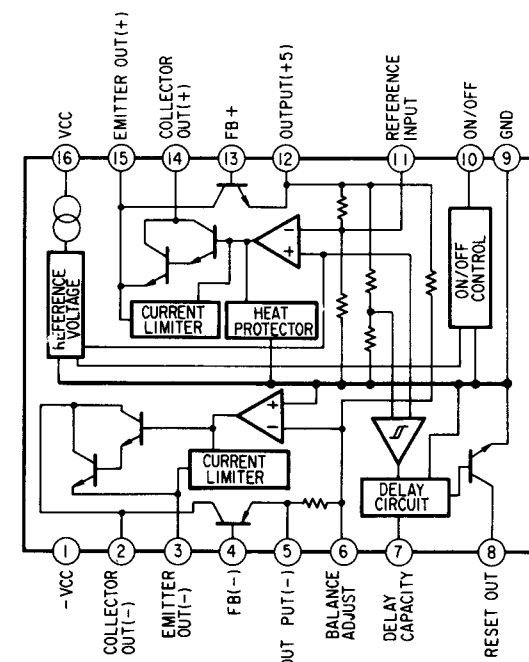
M50930-432FP



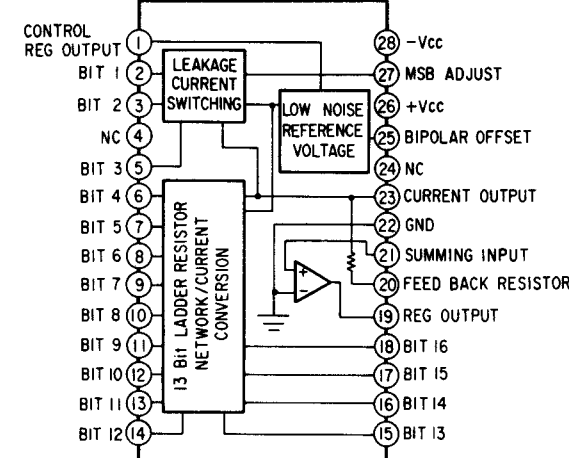
M51565P



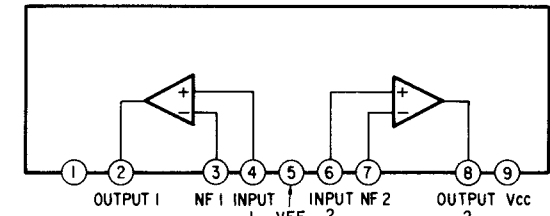
M5290P



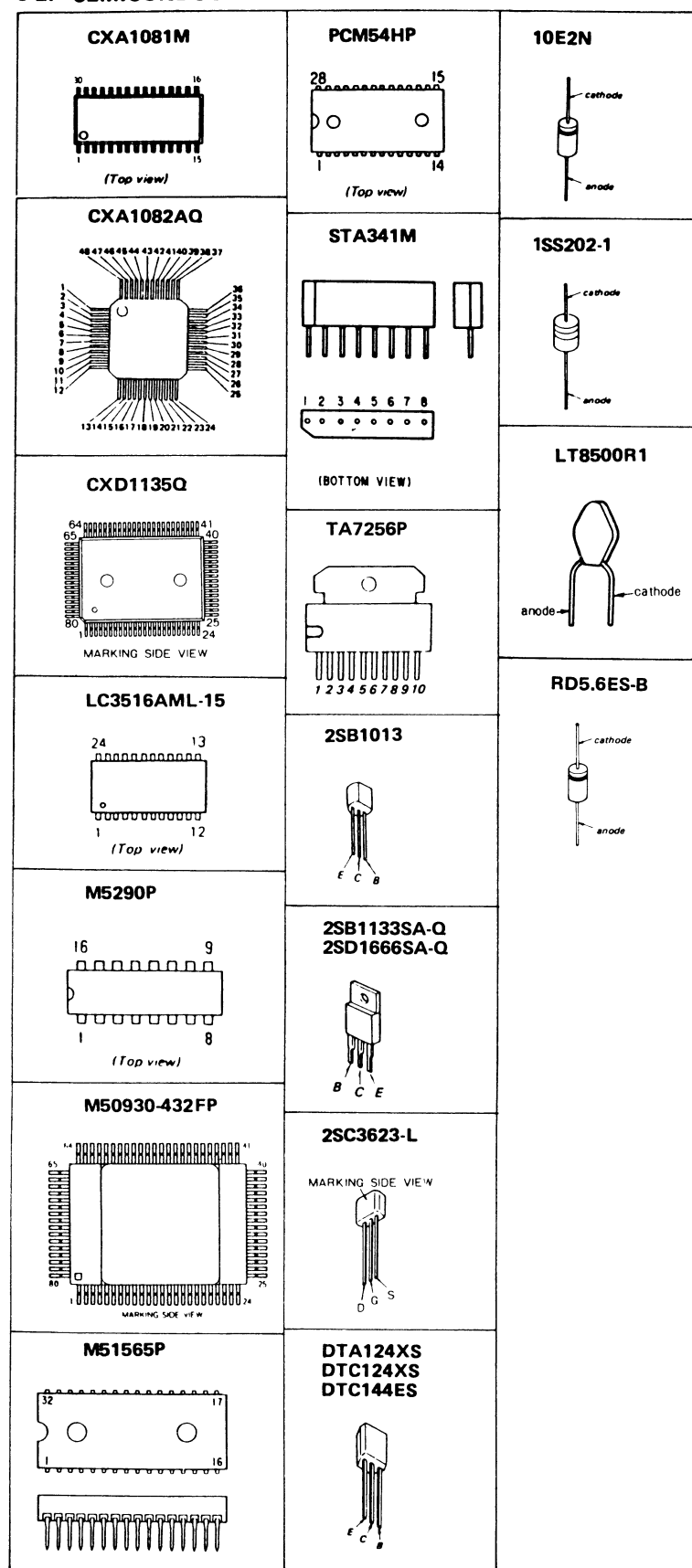
PCM54HP



TA7256P



3-2. SEMICONDUCTOR LEAD LAYOUT

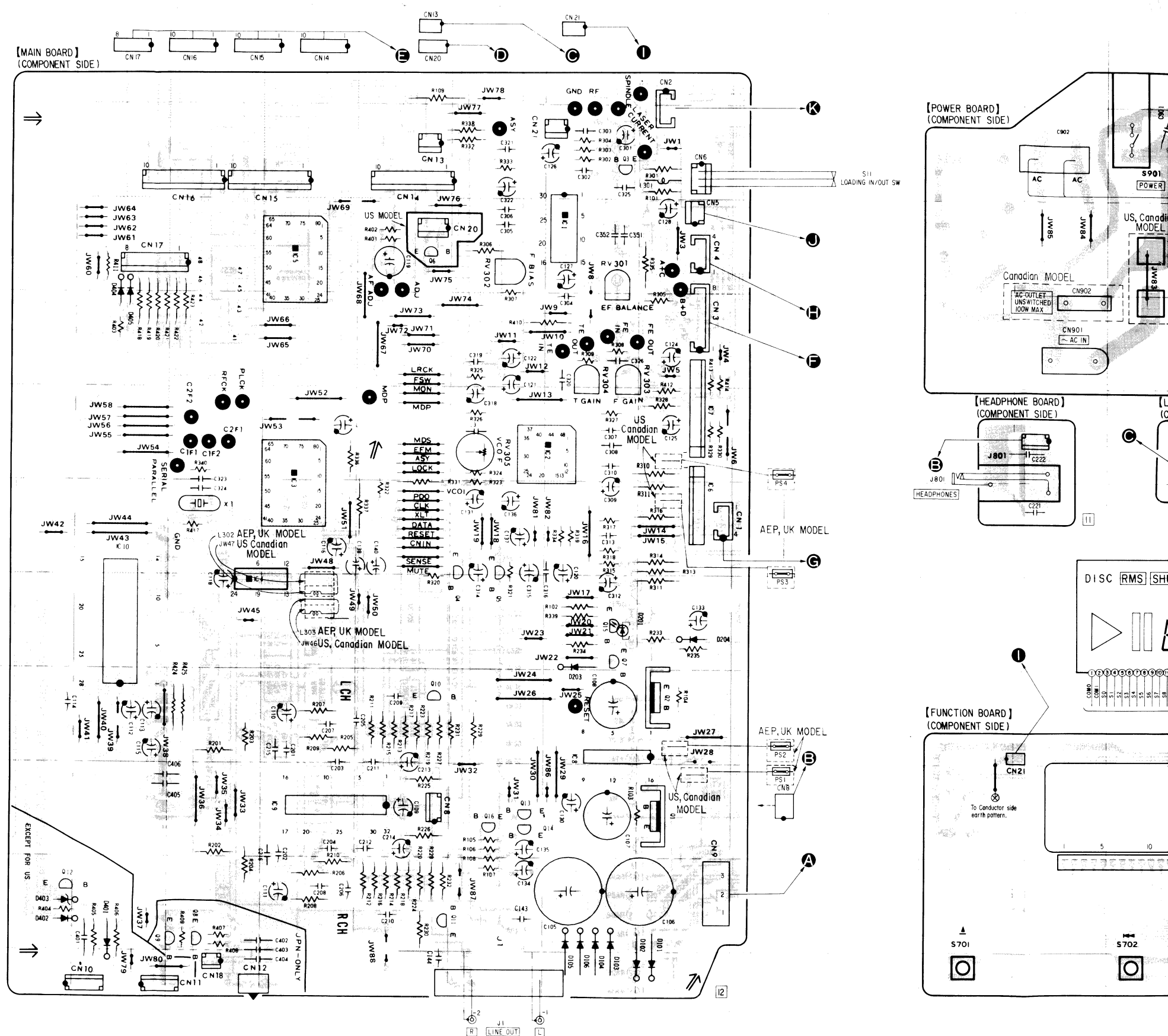


- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : part mounted on the conductor side.
- ⊕ : indicates side identified with part number.

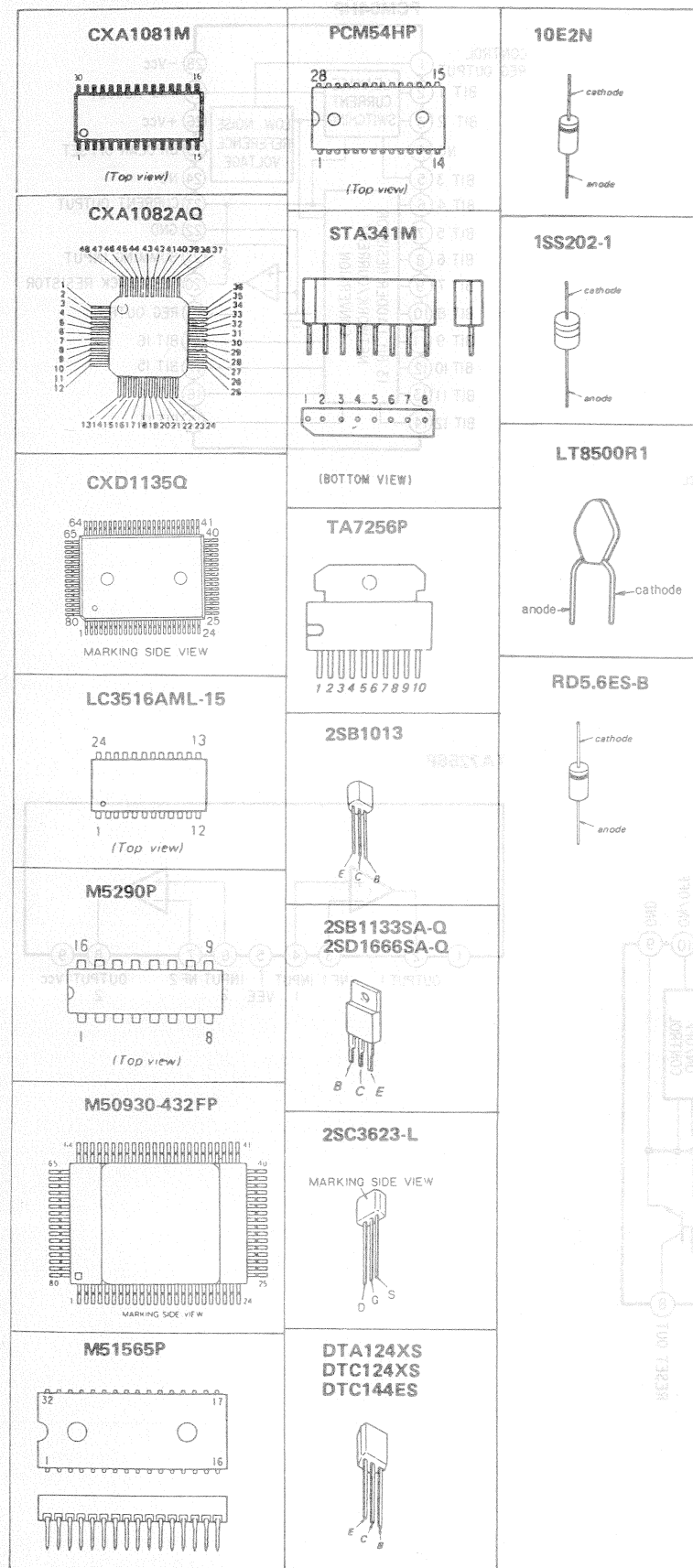
● SEMICONDUCTOR LOCATION

Ref. No.	Location
D101	K-8
D102	K-8
D103	J-7
D104	J-7
D105	J-7
D106	J-7
D201	G-7
D203	G-7
D204	G-8
D401	J-2
D402	J-1
D403	J-1
D404	C-2
D405	C-2
IC1	C-7
IC2	E-7
IC3	E-4
IC4	G-3
IC5	C-4
IC6	F-8
IC7	F-8
IC8	H-7
IC9	I-4
IC10	G-2
IC701	I-11
Q1	I-8
Q2	H-8
Q3	B-7
Q4	G-6
Q5	G-6
Q6	C-5
Q7	G-7
Q10	H-5
Q11	J-5
Q12	J-1
Q13	I-6
Q14	I-6
Q15	G-7
Q16	I-6

3-3. MOUNTING DIAGRAM



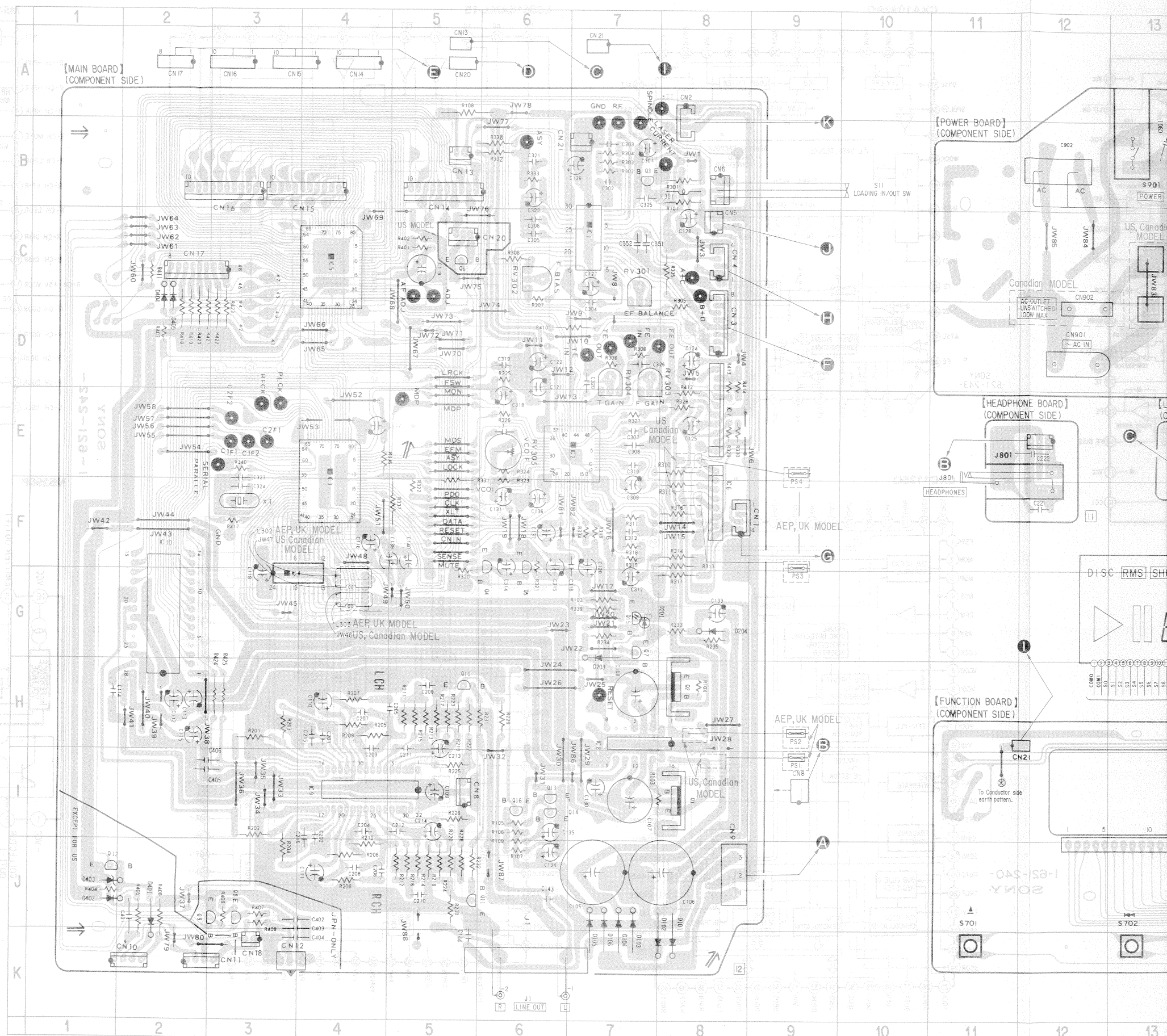
3-2. SEMICONDUCTOR LEAD LAYOUT



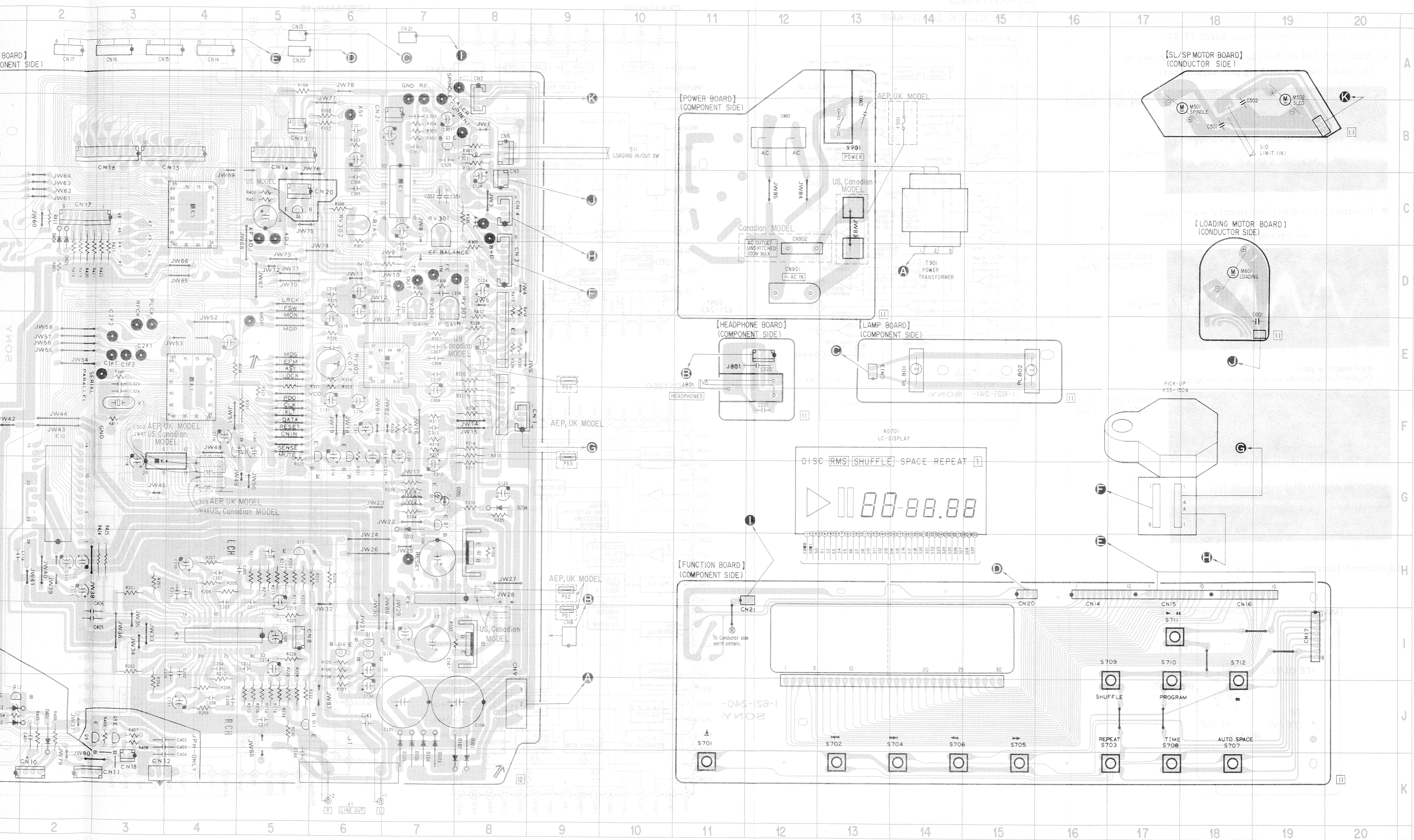
● SEMICONDUCTOR LOCATION

Ref. No.	Location
D101	K-8
D102	K-8
D103	J-7
D104	J-7
D105	J-7
D106	J-7
D201	G-7
D203	G-7
D204	G-8
D401	J-2
D402	J-1
D403	J-1
D404	C-2
D405	C-2
IC1	C-7
IC2	F-4
IC3	F-4
IC4	G-3
IC5	C-4
IC6	F-8
IC7	F-8
IC8	F-7
IC9	I-4
IC10	G-2
IC701	I-11
Q1	I-8
Q2	I-8
Q3	B-7
Q4	G-6
Q5	G-6
Q6	C-5
Q7	G-7
Q10	H-5
Q11	J-5
Q12	J-1
Q13	I-6
Q14	I-6
Q15	G-7
Q16	I-6

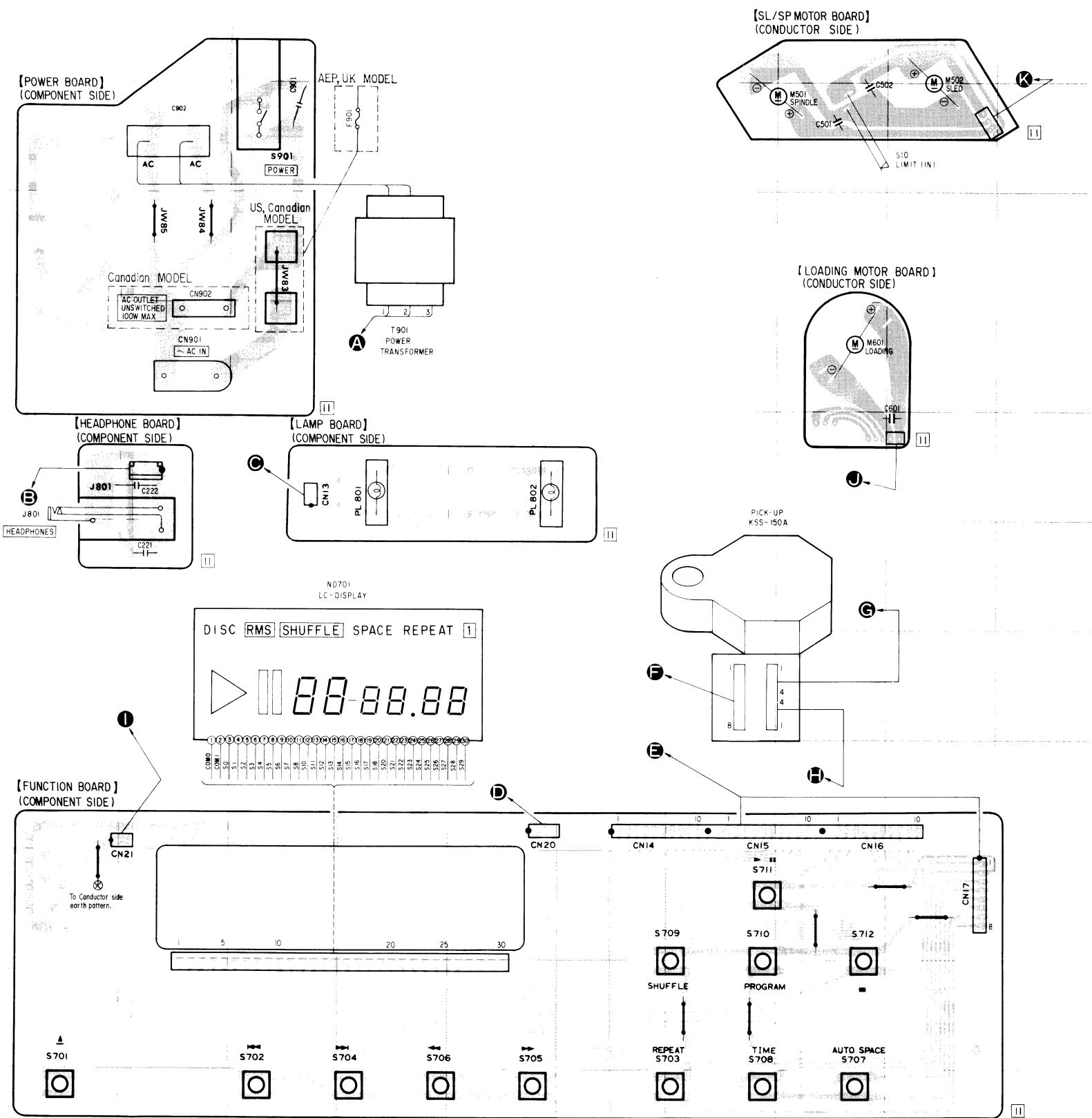
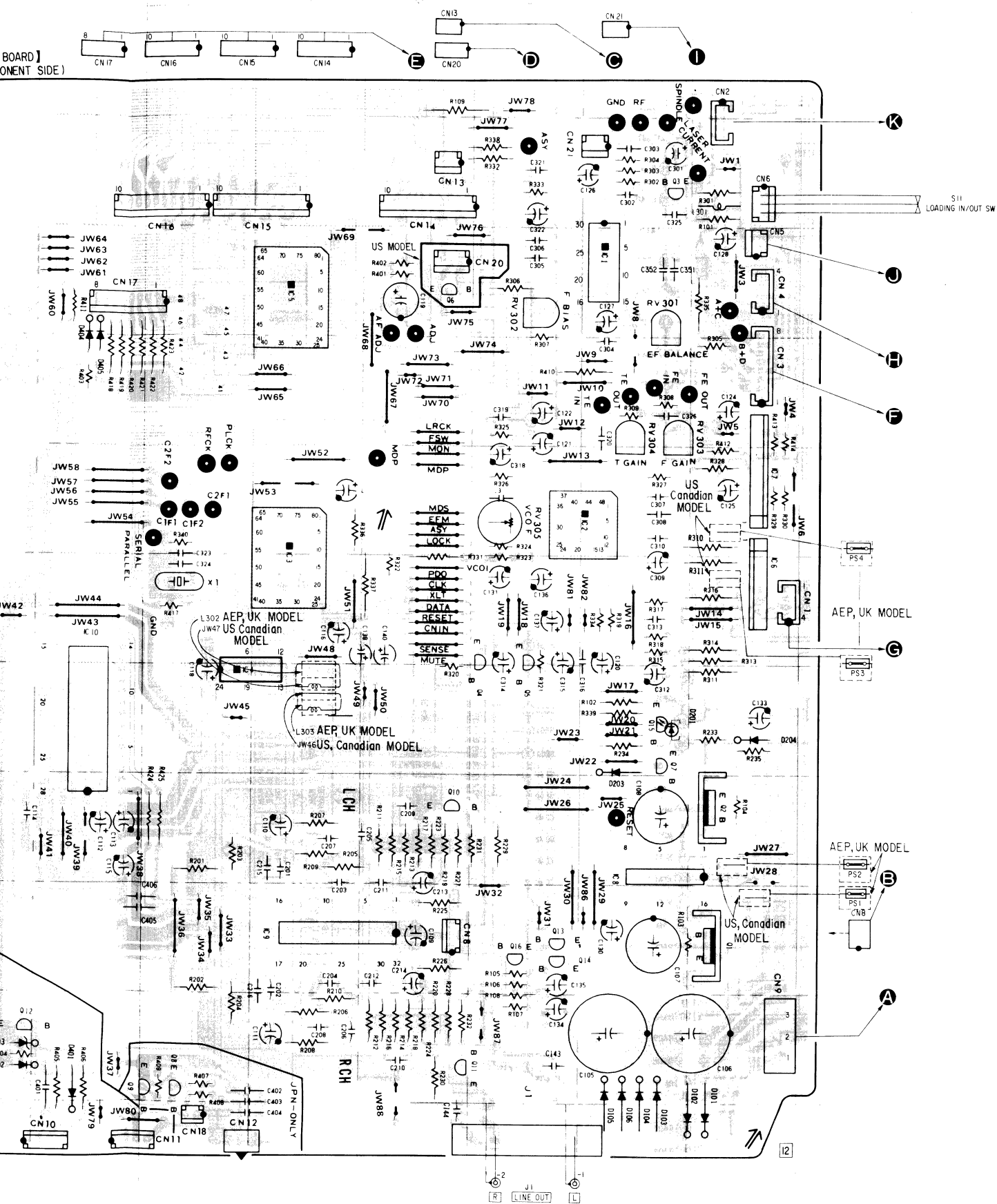
3-3. MOUNTING DIAGRAM



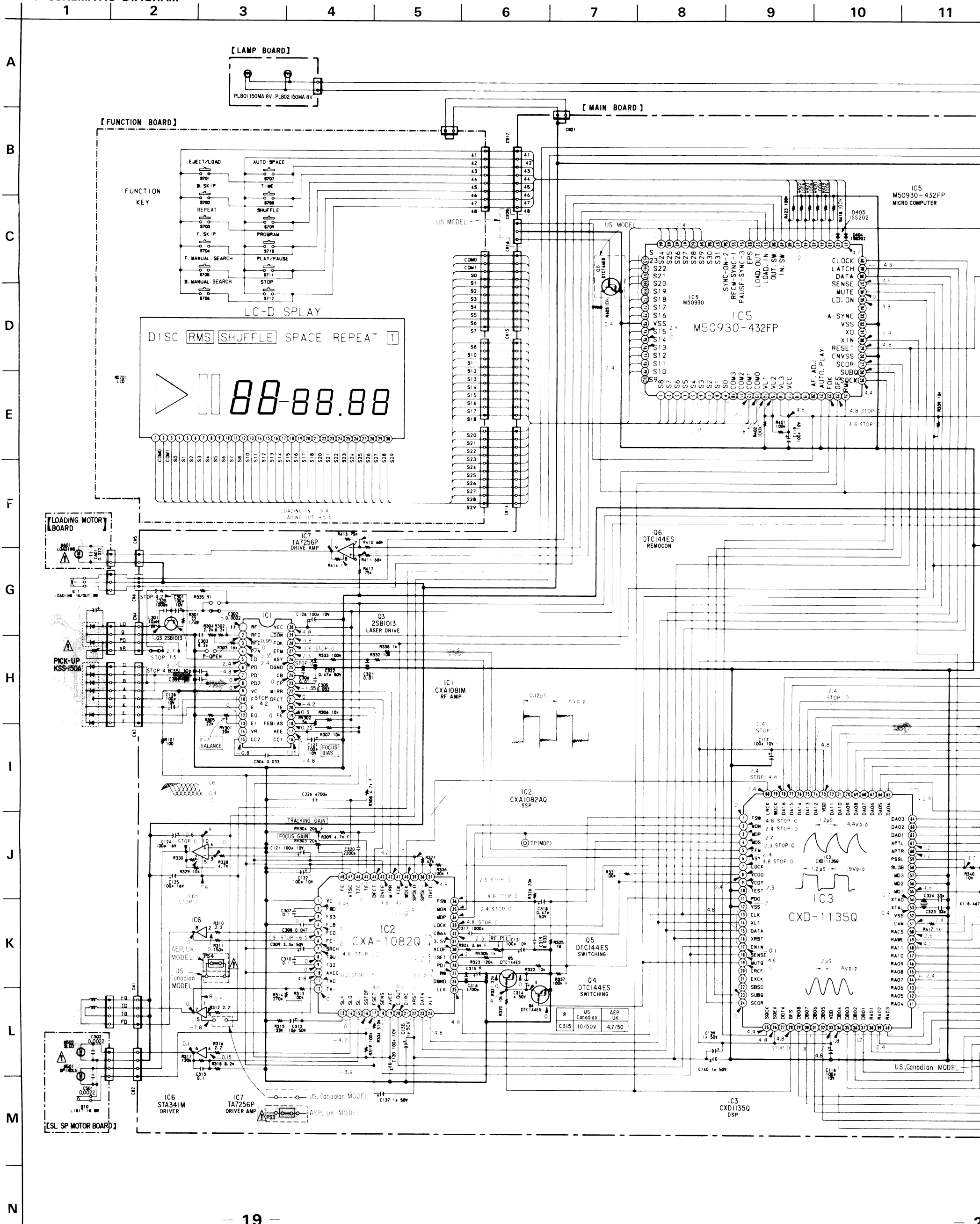
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : part mounted on the conductor side.
- : indicates side identified with part number.



WIRING DIAGRAM



3-4. SCHEMATIC DIAGRAM





SECTION 4
EXPLODED VIEWS

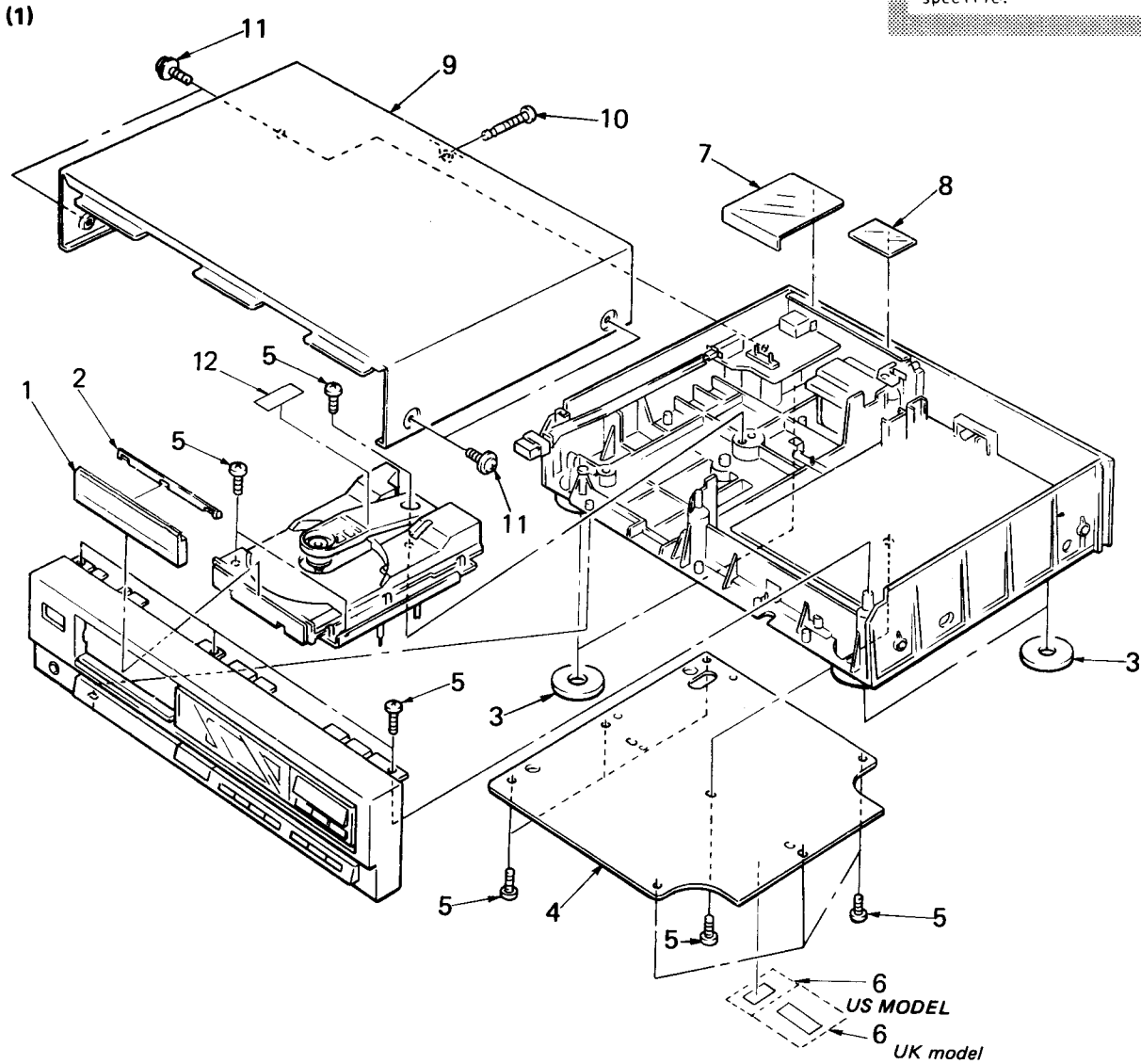
NOTE:

The mechanical parts with no reference number in the exploded views are not supplied.

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

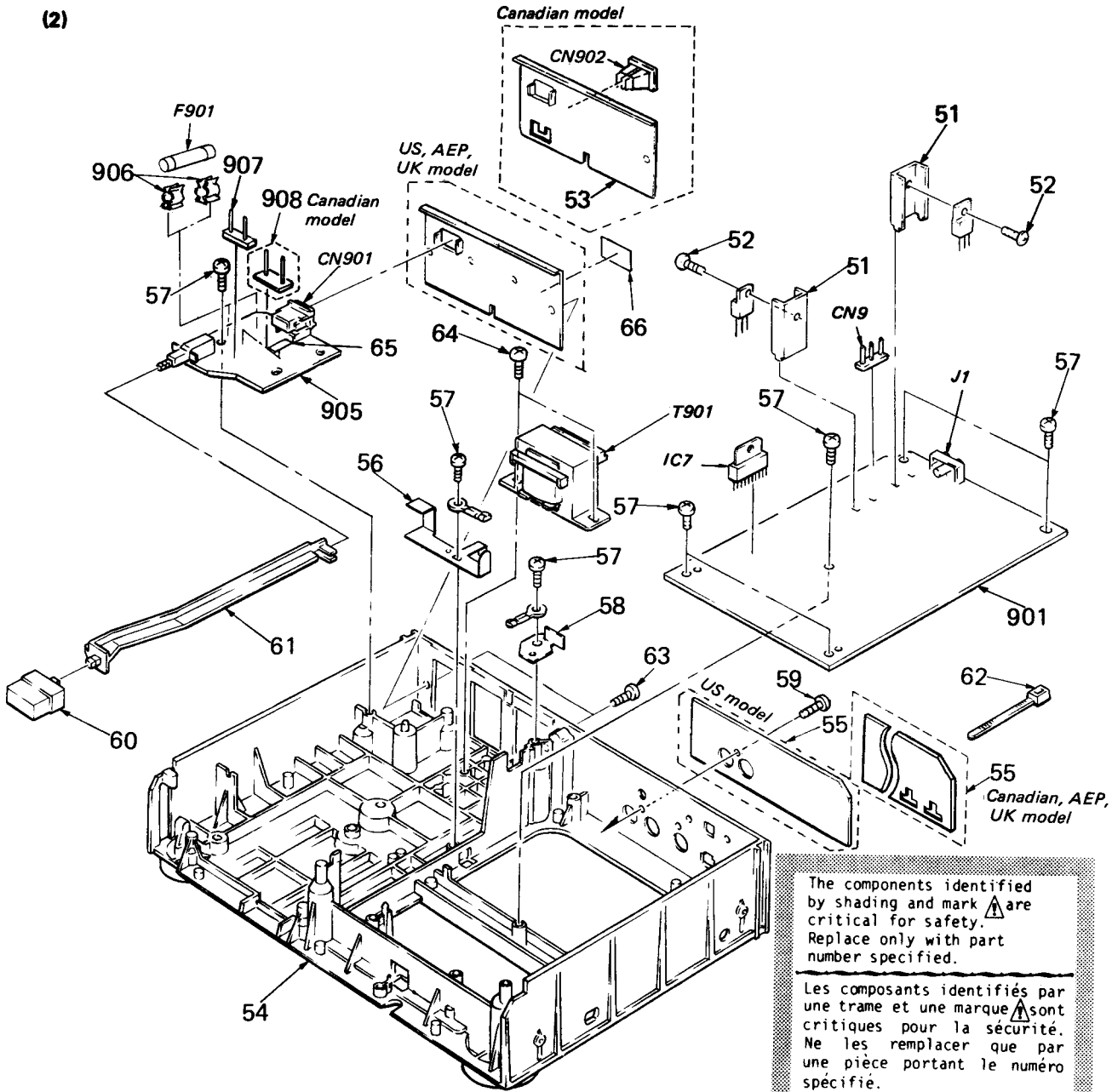
The components identified by shading and mark  are critical for safety. Replace only with part number specified.

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



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	4-912-932-21	PANEL, LOADING		7	*4-912-931-01	COVER, POWER	
2	4-912-933-01	ESCUTCHEON, LOADING PANEL		8	*4-918-114-01	COVER, TRANSFORMER	
3	4-912-919-01	FOOT		9	4-912-939-01	CASE	
4	*4-912-912-21	PLATE, BOTTOM		10	3-703-473-11	SCREW, TERMINAL	
5	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S		11	3-703-135-31	SCREW, TAPPING	
6	*3-703-680-00	(US)...LABEL, CAUTION, SUB, NEW UL		12	*4-885-843-02	(AEP,UK)...LABEL, CAUTION LASER	
	*3-703-079-21	(UK)...LABEL, CAUTION (BLACK)					

(2)

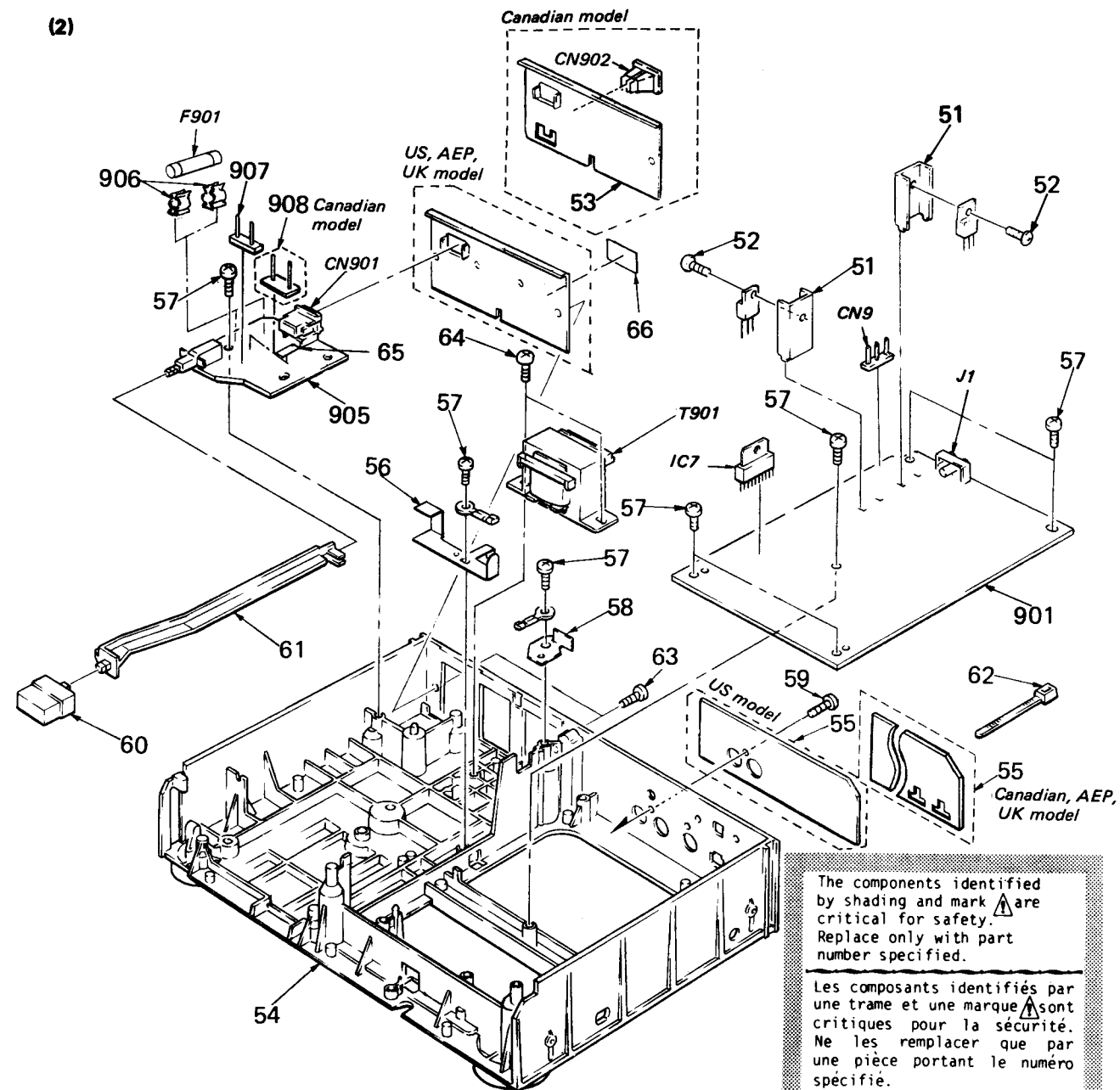


The components identified by shading and mark  are critical for safety. Replace only with part number specified.

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

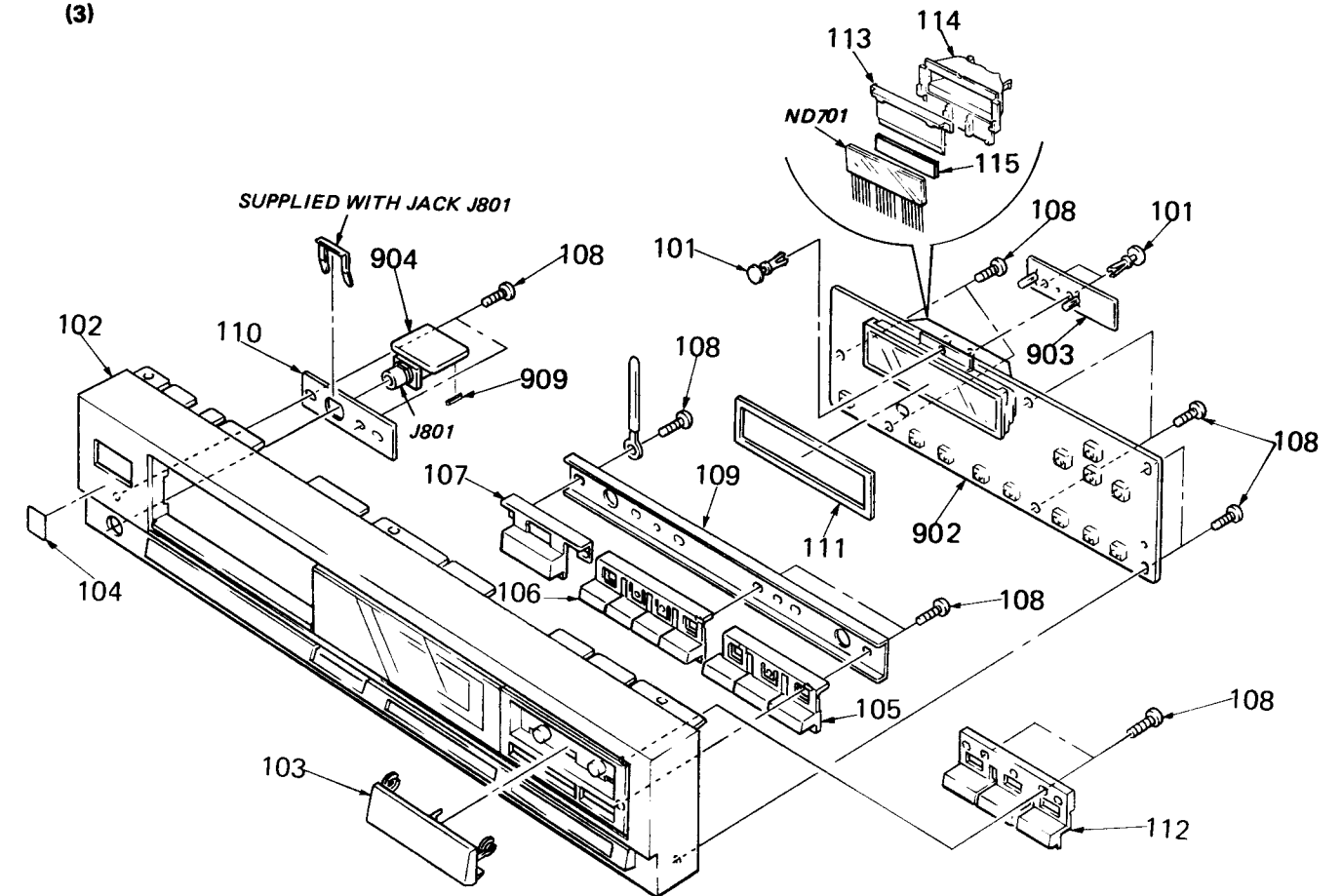
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	*4-886-555-00	HEAT SINK		65	*3-701-948-04	(AEP)...LABEL, FUSE	
52	2-259-121-00	SCREW, TR			3-701-948-14	(UK)...LABEL, FUSE	
53	*4-918-401-01	(US)...PLATE, JACK		66	*4-885-838-00	(AEP,UK)...LABEL, CLASS1	
	*4-918-401-11	(Canadian)...PLATE, JACK		901	*A-4651-107-A	(US)...MOUNTED PCB, MAIN	
	*4-918-401-71	(AEP)...PLATE, JACK			*A-4651-115-A	(Canadian)...MOUNTED PCB, MAIN	
	*4-918-401-81	(UK)...PLATE, JACK			*A-4651-141-A	(AEP,UK)...MOUNTED PCB, MAIN	
54	*4-912-938-11	CHASSIS		905	*1-621-243-11	PC BOARD, POWER	
55	*4-912-930-61	(EXCEPT FOR US)		CN901	*1-526-930-11	(US,Canadian)...INLET, AC	
		...PLATE, ORNAMENTAL, JACK			*1-526-931-11	(AEP,UK)...INLET, AC	
	*4-912-930-51	(US)...PLATE, ORNAMENTAL, JACK		907	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	
56	*4-912-923-01	PLATE (A), GROUND		908	1-535-139-00	(Canadian)...BASE POST 22MM (10MM PITCH)	
57	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S		CN902	*1-526-882-11	(Canadian)...OUTLET, AC	
58	*4-912-971-01	PLATE (B), GROUND		906	1-533-183-11	(AEP,UK)...HOLDER, FUSE	
59	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S		CN9	*1-535-116-00	TERMINAL	
60	4-917-460-01	KNOB, POWER		F901	*1-532-610-XX	(AEP)...FUSE, TIME-LAG	
61	*4-911-063-01	LEVER, POWER SWITCH			*1-532-078-00	(UK)...FUSE, TIME-LAG	
62	3-701-748-00	CLAMP		IC7	8-759-202-01	IC TA7256P	
63	7-685-872-09	SCREW +BVTT 3X8 (S)		T901	*1-448-777-11	(US,Canadian)...TRANSFORMER, POWER	
64	7-685-660-11	SCREW +BVTP 4X10 TYPE2 N-S			*1-448-817-11	(AEP,UK)...TRANSFORMER, POWER	

(2)



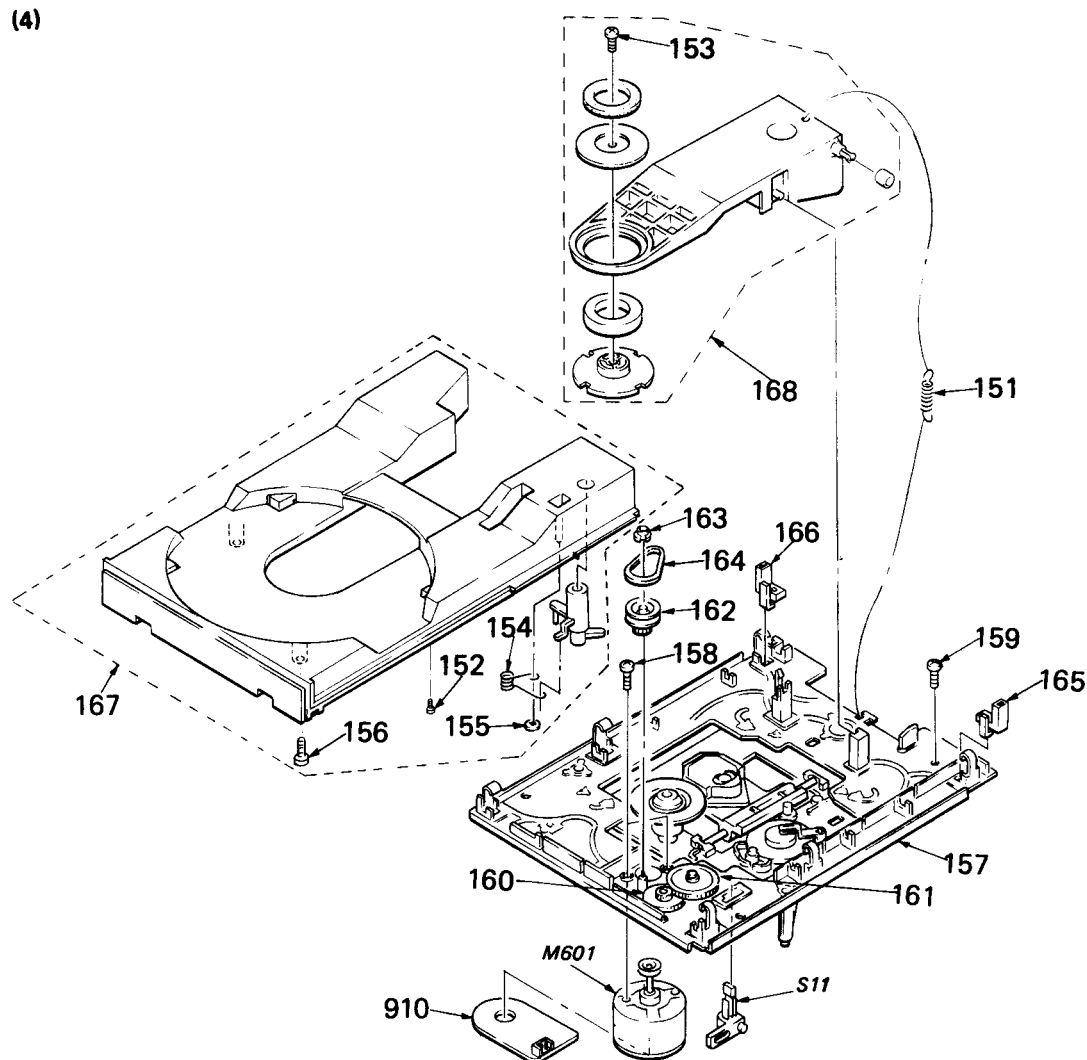
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	*4-886-555-00	HEAT SINK		65	*3-701-948-04	(AEP)...LABEL, FUSE	
52	2-259-121-00	SCREW, TR			3-701-948-14	(UK)...LABEL, FUSE	
53	*4-918-401-01	(US).....PLATE, JACK		66	*4-885-838-00	(AEP,UK)...LABEL, CLASS1	
	*4-918-401-11	(Canadian)...PLATE, JACK		901	*A-4651-107-A	(US).....MOUNTED PCB, MAIN	
	*4-918-401-71	(AEP).....PLATE, JACK			*A-4651-115-A	(Canadian)...MOUNTED PCB, MAIN	
	*4-918-401-81	(UK).....PLATE, JACK			*A-4651-141-A	(AEP,UK).....MOUNTED PCB, MAIN	
54	*4-912-938-11	CHASSIS		905	*1-621-243-11	PC BOARD, POWER	
55	*4-912-930-61	(EXCEPT FOR US)		CN901	*1-526-930-11	(US,Canadian)...INLET, AC	
		...PLATE, ORNAMENTAL, JACK			*1-526-931-11	(AEP,UK).....INLET, AC	
	*4-912-930-51	(US).....PLATE, ORNAMENTAL, JACK		907	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	
56	*4-912-923-01	PLATE (A), GROUND		908	1-535-139-00	(Canadian)...BASE POST 22MM (10MM PITCH)	
57	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S		CN902	*1-526-882-11	(Canadian)...OUTLET, AC	
58	*4-912-971-01	PLATE (B), GROUND		906	1-533-183-11	(AEP,UK)...HOLDER, FUSE	
59	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S		CN9	*1-535-116-00	TERMINAL	
60	4-917-460-01	KNOB, POWER		F901	*1-532-610-XX	(AEP)...FUSE, TIME-LAG	
61	*4-911-063-01	LEVER, POWER SWITCH		F901	*1-532-078-00	(UK)...FUSE, TIME-LAG	
62	3-701-748-00	CLAMP		IC7	8-759-202-01	IC TA7256P	
63	7-685-872-09	SCREW +BVTT 3X8 (S)		T901	*1-448-777-11	(US,Canadian)...TRANSFORMER, POWER	
64	7-685-660-11	SCREW +BVTP 4X10 TYPE2 N-S		T901	*1-448-817-11	(AEP,UK).....TRANSFORMER, POWER	

(3)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	4-812-134-00	RIVET NYLON, 3.5		111	4-918-101-01	PACKING, LCD	
102	X-4918-402-1	PANEL (A) ASSY, FRONT		112	4-918-402-01	BUTTON, 3 GANG	
103	4-918-107-11	BUTTON, PLAY		113	*4-918-406-01	ILLUMINATOR, LCD	
104	3-703-710-41	STICKER, SONY SYMBOL (12)		114	*4-918-409-01	HOLDER, LCD	
105	4-918-109-01	BUTTON, 3 GANG		115	*4-918-429-01	PLATE, LIGHT INTERCEPTION	
106	4-918-111-11	BUTTON, 4 GANG		902	*1-621-240-11	PC BOARD, FUNCTION	
107	4-918-403-01	BUTTON, OPEN/CLOSE		903	*1-621-241-11	PC BOARD, LAMP	
108	7-685-534-11	SCREW +BTP 2.6X8 TYPE2 N-S		904	*1-621-244-11	PC BOARD, HEADPHONE	
109	*4-918-405-01	BRACKET, BUTTON FIXING		909	*1-564-506-11	PLUG, CONNECTOR 3P	
110	*4-918-408-01	BRACKET, H JACK		J801	1-563-485-21	JACK, LARGE TYPE (HEADPHONES)	
				ND701	1-807-758-11	LCD	

(4)

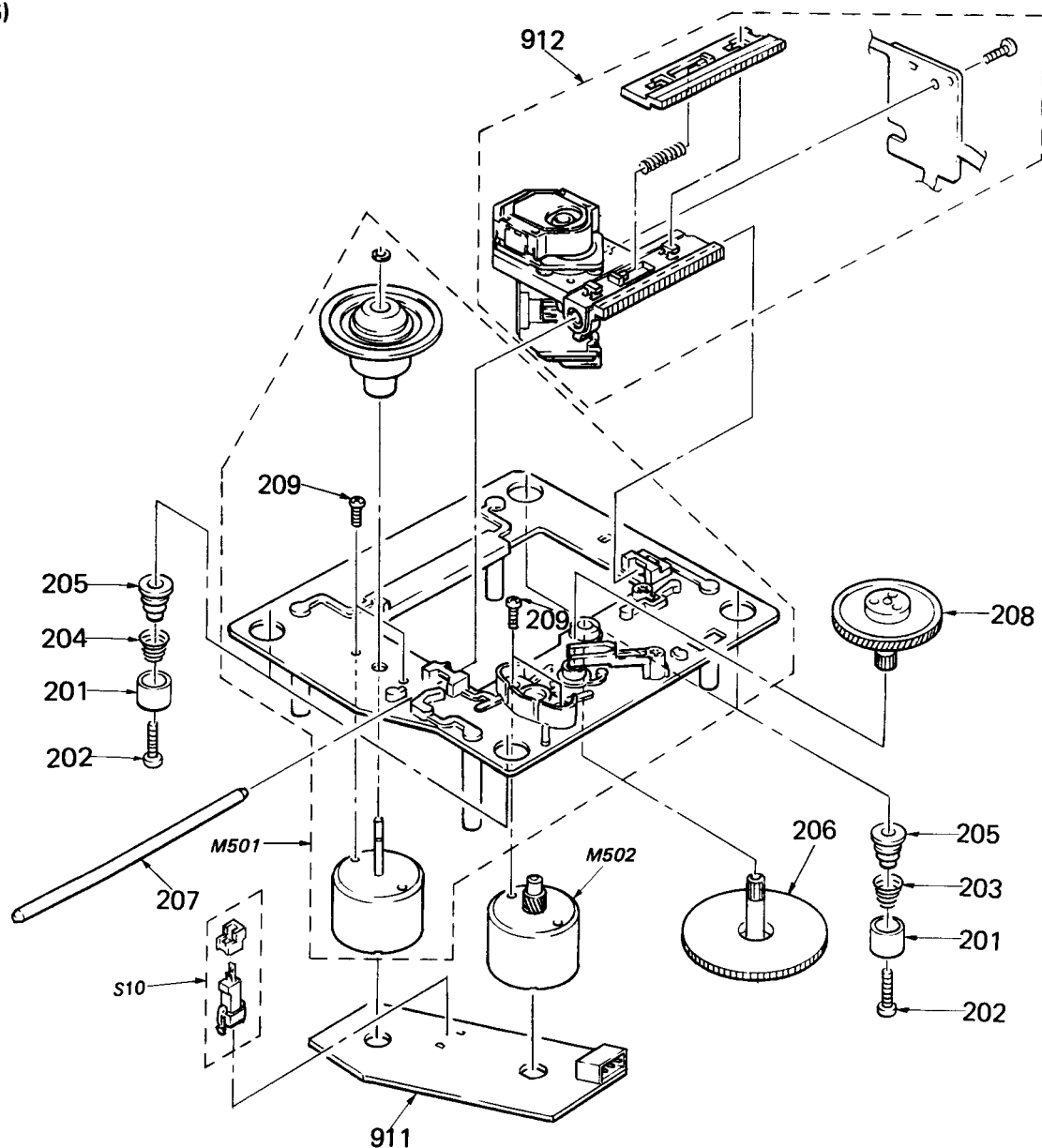


The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	4-917-551-01	SPRING (ARM), TENSION		161	4-917-550-01	GEAR (A), LOADING	
152	7-687-203-11	+PTPH 2X5		162	4-917-546-01	PULLEY (A), LOADING	
153	7-685-132-19	SCREW +BTP 2.6X5 TYPE2 N-S		163	4-910-418-01	BUSHING (DIA. 4)	
154	4-917-552-01	SPRING		164	4-917-548-01	BELT, DRIVING	
155	7-624-190-81	STOP RING 2, TYPE-CS		165	*4-918-613-01	CUSHION (RIGHT)	
156	7-685-103-14	SCREW (2X5), + PWTP		166	*4-918-612-01	CUSHION (LEFT)	
157	4-917-561-11	CHASSIS (OUTSERT), LOADING		167	A-4665-013-A	TABLE ASSY, DISK	
158	7-621-775-40	SCREW +B 2.6X8		168	A-4681-006-A	ARM ASSY, CHUCKING	
159	7-685-793-04	SCREW +BVT 2.6X8 (S)		910	*1-620-098-11	PC BOARD, LOADING MOTOR	
160	4-910-402-01	GEAR (2), LOADING		M601	AA-4608-320-A	MOTOR ASSY, L	
				S11	1-570-203-11	SWITCH, LEAF	

(5)



The components identified by shading and mark  are critical for safety. Replace only with part number specified.

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

No.	Part No.	Description
201	4-917-508-01	HOLDER, SP
202	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S
203	4-917-507-01	SPRING (H)
204	4-917-541-01	SPRING (B)
205	4-917-562-01	INSULATOR
206	4-917-564-11	GEAR (P)
207	4-917-565-01	SHAFT, SLED

Remarks

No.	Part No.	Description	Remarks
208	4-917-567-01	GEAR (M)	
209	7-621-255-15	SCREW +P 2X3	
911	*1-620-097-11	PC BOARD, SL/SP MOTOR	
912	 X-4917-051-1	DEVICE, OPTICS (KSS-150A)	
M501	 X-4917-505-1	ASSY, MOTOR (SPINDLE)	
M502	 X-4917-504-1	ASSY, MOTOR (SLED)	
S10	1-570-822-11	SWITCH, LEAF	

SECTION 5

ELECTRICAL PARTS LIST

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

• MMH : mH, UH : μ H

SEMICONDUCTORS

In each case, U : μ , for example:UA...: μ A..., UPA...: μ PA..., UPC...: μ PC,UPD...: μ PD...

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*A-4651-107-A	(US).....MOUNTED PCB, MAIN
	*A-4651-115-A	(Canadian)...MOUNTED PCB, MAIN
	*A-4651-141-A	(AEP,UK)....MOUNTED PCB, MAIN
902	*1-621-240-11	PC BOARD, FUNCTION
903	*1-621-241-11	PC BOARD, LAMP
904	*1-621-244-11	PC BOARD, HEADPHONE
905	*1-621-243-11	PC BOARD, POWER
906	1-533-183-11	(AEP,UK)...HOLDER, FUSE
907	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P
908	1-535-139-00	(Canadian)...BASE POST 22MM(10MM PITCH)
909	*1-564-506-11	PLUG, CONNECTOR 3P
910	*1-620-098-11	PC BOARD, LOADING MOTOR
911	*1-620-097-11	PC BOARD, SL/SP MOTOR
912	A-X-4917-051-1	DEVICE, OPTICS (KSS-150A)
C105	Δ 1-126-086-61	ELECT 6800MF 20% 16V
C106	Δ 1-126-086-61	ELECT 6800MF 20% 16V
C107	1-124-443-00	ELECT 100MF 20% 10V
C108	1-124-443-00	ELECT 100MF 20% 10V
C109	1-124-443-00	ELECT 100MF 20% 10V
C110	1-124-443-00	ELECT 100MF 20% 10V
C111	1-124-443-00	ELECT 100MF 20% 10V
C112	1-124-443-00	ELECT 100MF 20% 10V
C113	1-124-443-00	ELECT 100MF 20% 10V
C114	1-136-165-00	FILM 0.1MF 5% 50V
C115	1-124-443-00	ELECT 100MF 20% 10V
C116	1-124-443-00	ELECT 100MF 20% 10V
C117	1-124-443-00	ELECT 100MF 20% 10V
C118	1-124-443-00	ELECT 100MF 20% 10V
C119	1-124-443-00	ELECT 100MF 20% 10V
C120	1-124-443-00	ELECT 100MF 20% 10V
C121	1-124-443-00	ELECT 100MF 20% 10V
C122	1-124-443-00	ELECT 100MF 20% 10V
C124	1-124-445-00	ELECT 100MF 20% 16V
C125	1-124-445-00	ELECT 100MF 20% 16V
C126	1-124-443-00	ELECT 100MF 20% 10V
C127	1-124-443-00	ELECT 100MF 20% 10V
C128	1-124-443-00	ELECT 100MF 20% 10V
C130	1-124-907-00	ELECT 10MF 20% 50V
C131	1-124-443-00	ELECT 100MF 20% 10V
C133	1-123-332-00	ELECT 47MF 20% 16V
C134	1-124-927-11	ELECT 4.7MF 20% 50V
C135	1-124-905-11	ELECT 3.3MF 20% 50V
C136	1-124-903-00	ELECT 1MF 20% 50V
C137	1-124-903-00	ELECT 1MF 20% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C139	1-124-903-00	ELECT 1MF 20% 50V
C140	1-124-903-00	ELECT 1MF 20% 50V
C143	1-136-165-00	FILM 0.1MF 5% 50V
C144	1-136-165-00	FILM 0.1MF 5% 50V
C201	1-110-217-11	MYLAR 470PF 5% 50V
C203	1-130-471-00	MYLAR 0.001MF 5% 50V
C205	1-130-475-00	MYLAR 0.0022MF 5% 50V
C207	1-130-475-00	MYLAR 0.0022MF 5% 50V
C209	1-136-153-00	FILM 0.01MF 5% 50V
C211	1-110-217-11	MYLAR 470PF 5% 50V
C213	1-123-330-00	ELECT 22MF 20% 16V
C215	1-110-217-11	MYLAR 470PF 5% 50V
C221	1-162-290-00	CERAMIC 470PF 20% 50V
C222	1-162-290-00	CERAMIC 470PF 20% 50V
C301	1-124-443-00	ELECT 100MF 20% 10V
C302	1-130-475-00	MYLAR 0.0022MF 5% 50V
C303	1-162-198-31	CERAMIC 8.2PF 10% 50V
C304	1-136-159-00	FILM 0.033MF 5% 50V
C305	1-136-159-00	FILM 0.033MF 5% 50V
C306	1-136-153-00	FILM 0.01MF 5% 50V
C307	1-136-165-00	FILM 0.1MF 5% 50V
C308	1-136-161-00	FILM 0.047MF 5% 50V
C309	1-124-905-11	ELECT 3.3MF 20% 50V
C310	1-136-165-00	FILM 0.1MF 5% 50V
C312	1-124-907-00	ELECT 10MF 20% 50V
C313	1-136-165-00	FILM 0.1MF 5% 50V
C314	1-124-903-00	ELECT 1MF 20% 50V
C315	1-124-907-00	(US,Canadian)...ELECT 10MF 20% 50V
C315	1-124-927-00	(AEP,UK).....ELECT 4.7MF 20% 50V
C316	1-162-304-31	CERAMIC 0.0047MF 30% 16V
C317	1-162-294-31	CERAMIC 0.001MF 10% 50V
C318	1-124-902-00	ELECT 0.47MF 20% 50V
C319	1-136-159-00	FILM 0.033MF 5% 50V
C320	1-162-302-31	CERAMIC 0.0022MF 30% 16V
C321	1-136-153-00	FILM 0.01MF 5% 50V
C322	1-124-902-00	ELECT 0.47MF 20% 50V
C323	1-162-211-31	CERAMIC 33PF 5% 50V
C324	1-162-211-31	CERAMIC 33PF 5% 50V
C325	1-162-294-31	CERAMIC 0.001MF 10% 50V
C326	1-162-304-31	CERAMIC 0.0047MF 30% 16V
C351	1-162-199-00	CERAMIC 10PF 20% 16V
C352	1-162-199-00	CERAMIC 10PF 20% 16V
C401	1-162-306-31	(EXCEPT FOR US) ...CERAMIC 10000PF 20% 16V
C405	1-162-211-31	CERAMIC 33PF 5% 50V
C406	1-162-211-31	CERAMIC 33PF 5% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C501	1-106-180-00	FILM 0.0022MF 5% 50V
C502	1-106-180-00	FILM 0.0022MF 5% 50V
C601	1-101-005-00	CERAMIC 0.022MF 50V
C901	1-161-744-00	CERAMIC 0.01MF 400V
CN1	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN2	*1-564-706-41	PIN, CONNECTOR (SMALL TYPE) 4P
CN3	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P
CN4	*1-564-706-31	PIN, CONNECTOR (SMALL TYPE) 4P
CN5	*1-564-336-00	PIN, CONNECTOR 2P
CN6	*1-564-337-00	PIN, CONNECTOR 3P
CN8	*1-564-506-11	PLUG, CONNECTOR 3P
CN9	*1-535-116-00	TERMINAL
CN10	*1-564-980-11	(EXCEPT FOR US)...PIN, CONNECTOR 4P
CN11	*1-564-980-11	(EXCEPT FOR US)...PIN, CONNECTOR 4P
CN13	*1-564-336-31	PIN, CONNECTOR 2P
CN14	*1-564-666-21	PIN, CONNECTOR 10P
CN15	*1-564-666-11	PIN, CONNECTOR 10P
CN16	*1-564-666-31	PIN, CONNECTOR 10P
CN17	*1-564-342-41	PIN, CONNECTOR 8P
CN20	*1-564-337-21	(US)...PIN, CONNECTOR 3P
CN21	*1-564-336-21	PIN, CONNECTOR 2P
CN901	1-526-930-11	(US,Canadian)...INLET,AC
	1-526-931-11	(AEP,UK)...INLET,AC
CN902	1-526-882-11	(Canadian)...OUTLET,AC
D101	1-8-719-200-77	DIODE 10E2N
D102	1-8-719-200-77	DIODE 10E2N
D103	1-8-719-200-77	DIODE 10E2N
D104	1-8-719-200-77	DIODE 10E2N
D105	1-8-719-107-94	DIODE 1SS202-1
D106	1-8-719-107-94	DIODE 1SS202-1
D201	8-719-941-37	DIODE LT8500R1
D203	8-719-107-94	DIODE 1SS202-1
D204	8-719-107-94	DIODE 1SS202-1
D401	8-719-107-94	(EXCEPT FOR US)...DIODE 1SS202-1
D402	8-719-107-94	(EXCEPT FOR US)...DIODE 1SS202-1
D403	8-719-109-87	(EXCEPT FOR US)...DIODE RD5.6ESB
D404	8-719-107-94	DIODE 1SS202-1
D405	8-719-107-94	DIODE 1SS202-1
F901	1-532-610-XX	(AEP)...FUSE, TIME-LAG
F901	1-532-078-00	(UK)...FUSE, TIME-LAG
IC1	8-752-030-93	IC CXA1081M
IC2	8-752-031-65	IC CXA1082AQ
IC3	8-752-322-05	IC CXD1135Q
IC4	8-759-802-74	IC LC3516AML-15
IC5	8-759-604-63	IC MS0930-432FP
IC6	8-759-303-90	IC STA341M
IC7	8-759-202-01	IC TA7256P
IC8	8-759-604-03	IC M5290P
IC9	8-759-604-00	IC M51565P
IC10	8-759-924-25	IC PCM54HP
J1	*1-562-999-21	JACK, PIN 2P (LINE OUT)
J801	1-563-485-21	JACK, LARGE TYPE (HEADPHONES)
L301	1-408-563-00	MICRO INDUCTOR 10UH
L302	*1-410-858-11	(AEP,UK)...INDUCTOR, SMALL TYPE
L303	*1-410-858-11	(AEP,UK)...INDUCTOR, SMALL TYPE
M501	1-4917-505-1	ASSY, MOTOR (SPINDLE)
M502	1-4917-504-1	ASSY, MOTOR (SLED)
M601	1-4608-320-A	MOTOR ASSY (L)
ND701	1-807-758-11	LCD
PL801	1-518-576-31	LAMP, PILOT
PL802	1-518-576-31	LAMP, PILOT

ELECTRICAL PARTS

Ref.No.	Part No.	Description
PS1	1-532-685-00	(AEP,UK)...LINK, IC
PS2	1-532-685-00	(AEP,UK)...LINK, IC
PS3	1-532-605-00	(AEP,UK)...LINK, IC
PS4	1-532-605-00	(AEP,UK)...LINK, IC
Q1	8-729-807-03	TRANSISTOR 2SB1133SA-Q
Q2	8-729-807-07	TRANSISTOR 2SD1666SA-Q
Q3	8-729-804-83	TRANSISTOR 2SB1013
Q4	8-729-900-89	TRANSISTOR DTC144ES
Q5	8-729-900-89	TRANSISTOR DTC144ES
Q6	8-729-900-89	(US)...TRANSISTOR DTC144ES
Q7	8-729-900-67	TRANSISTOR DTA124XS
Q10	8-729-107-77	TRANSISTOR 2SC3623-L
Q11	8-729-107-77	TRANSISTOR 2SC3623-L
Q12	8-729-900-89	(EXCEPT FOR US)...TRANSISTOR DTC144ES
Q13	8-729-900-83	TRANSISTOR DTC124XS
Q14	8-729-900-89	TRANSISTOR DTC144ES
Q15	8-729-900-89	TRANSISTOR DTC144ES
Q16	8-729-900-67	TRANSISTOR DTA124XS
R101	1-249-405-11	CARBON 100 5% 1/4W
R102	1-249-429-11	CARBON 10K 5% 1/4W
R103	1-249-425-11	CARBON 4.7K 5% 1/4W
R104	1-249-425-11	CARBON 4.7K 5% 1/4W
R105	1-249-433-11	CARBON 22K 5% 1/4W
R106	1-247-839-00	CARBON 2.2K 5% 1/4W
R107	1-247-839-00	CARBON 2.2K 5% 1/4W
R108	1-249-437-11	CARBON 47K 5% 1/4W
R109	1-216-378-11	METAL OXIDE 5.6 5% 2W F
R201	1-247-152-00	CARBON 7.5K 5% 1/4W
R203	1-247-717-11	CARBON 2.2K 5% 1/4W
R205	1-247-717-11	CARBON 2.2K 5% 1/4W
R207	1-247-723-11	CARBON 6.8K 5% 1/4W
R209	1-247-152-00	CARBON 7.5K 5% 1/4W
R211	1-214-739-00	METAL 2.7K 1% 1/4W
R213	1-214-739-00	METAL 2.7K 1% 1/4W
R215	1-214-739-00	METAL 2.7K 1% 1/4W
R217	1-249-469-11	CARBON 100K 5% 1/4W
R219	1-247-133-00	CARBON 1.2K 5% 1/4W
R223	1-247-163-00	CARBON 22K 5% 1/4W
R225	1-247-702-11	CARBON 150 5% 1/4W
R227	1-247-706-11	CARBON 330 5% 1/4W
R229	1-247-133-00	CARBON 1.2K 5% 1/4W
R231	1-247-713-11	CARBON 1K 5% 1/4W
R232	1-247-713-11	CARBON 1K 5% 1/4W
R233	1-249-417-11	CARBON 1K 5% 1/4W
R234	1-249-441-11	CARBON 100K 5% 1/4W
R235	1-247-821-00	CARBON 390 5% 1/4W
R301	1-214-092-00	METAL 22 1% 1/4W
R302	1-247-853-00	CARBON 8.2K 5% 1/4W
R303	1-247-860-00	CARBON 16K 5% 1/4W
R304	1-247-839-00	CARBON 2.2K 5% 1/4W
R305	1-249-433-11	CARBON 22K 5% 1/4W
R306	1-249-429-11	CARBON 10K 5% 1/4W
R307	1-249-429-11	CARBON 10K 5% 1/4W
R308	1-215-437-00	METAL 4.7K 1% 1/6W
R309	1-215-437-00	METAL 4.7K 1% 1/6W
R310	1-247-767-00	CARBON 2.2 5% 1/4W
R311	1-247-883-00	CARBON 150K 5% 1/4W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R312	1-247-767-00	CARBON	2.2	5%	1/4W
R313	1-249-441-11	CARBON	100K	5%	1/4W
R314	1-247-889-00	CARBON	270K	5%	1/4W
R315	1-249-435-11	CARBON	33K	5%	1/4W
R316	1-247-767-00	CARBON	2.2	5%	1/4W
R317	1-247-881-00	CARBON	120K	5%	1/4W
R318	1-247-853-00	CARBON	8.2K	5%	1/4W
R319	1-249-441-11	CARBON	100K	5%	1/4W
R320	1-249-429-11	CARBON	10K	5%	1/4W
R321	1-249-433-11	CARBON	22K	5%	1/4W
R322	1-249-429-11	CARBON	10K	5%	1/4W
R323	1-247-881-00	CARBON	120K	5%	1/4W
R324	1-215-434-00	METAL	3.6K	1%	1/6W
R325	1-247-903-00	CARBON	1M	5%	1/4W
R326	1-247-862-00	CARBON	20K	5%	1/4W
R327	1-249-437-11	CARBON	47K	5%	1/4W
R328	1-249-425-11	CARBON	4.7K	5%	1/4W
R329	1-249-429-11	CARBON	10K	5%	1/4W
R330	1-259-033-11	CARBON	1	5%	1/4W
R331	1-249-441-11	CARBON	100K	5%	1/4W
R332	1-249-429-11	CARBON	10K	5%	1/4W
R333	1-249-441-11	CARBON	100K	5%	1/4W
R334	1-247-896-00	CARBON	510K	5%	1/4W
R335	1-247-806-00	CARBON	91	5%	1/4W
R336	1-215-469-00	METAL	100K	1%	1/6W
R337	1-215-469-00	METAL	100K	1%	1/6W
R338	1-249-417-11	CARBON	1K	5%	1/4W
R339	1-249-429-11	CARBON	10K	5%	1/4W
R340	1-249-429-11	CARBON	10K	5%	1/4W
R401	1-249-441-11	CARBON	100K	5%	1/4W
R402	1-249-441-11	CARBON	100K	5%	1/4W
R403	1-249-429-11	CARBON	10K	5%	1/4W
R404	1-247-863-00	(EXCEPT FOR US)...CARBON	22K	5%	1/4W
R405	1-247-807-00	(EXCEPT FOR US)...CARBON	100	5%	1/4W
R406	1-247-783-00	(EXCEPT FOR US)...CARBON	10	5%	1/4W
R410	1-247-875-00	CARBON	68K	5%	1/4W
R411	1-247-875-00	CARBON	68K	5%	1/4W
R412	1-247-876-00	CARBON	75K	5%	1/4W
R413	1-247-876-00	CARBON	75K	5%	1/4W
R414	1-259-033-11	CARBON	1	5%	1/4W
R417	1-249-417-11	CARBON	1K	5%	1/4W
R418	1-249-441-11	CARBON	100K	5%	1/4W
R419	1-249-441-11	CARBON	100K	5%	1/4W
R420	1-249-441-11	CARBON	100K	5%	1/4W
R421	1-249-441-11	CARBON	100K	5%	1/4W
R422	1-249-441-11	CARBON	100K	5%	1/4W
R423	1-249-441-11	CARBON	100K	5%	1/4W
R424	1-247-839-00	CARBON	2.2K	5%	1/4W
R425	1-247-839-00	CARBON	2.2K	5%	1/4W
RV301	1-237-460-21	RES, ADJ, CARBON 20K (EF-BALANCE)			
RV302	1-237-458-21	RES, ADJ, CARBON 5K (F-BIAS)			
RV303	1-237-460-21	RES, ADJ, CARBON 20K (F-GAIN)			
RV304	1-237-460-21	RES, ADJ, CARBON 20K (T-GAIN)			
RV305	1-228-990-00	RES, ADJ, METAL GLAZE 1K (VCO-F)			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S10	1-570-822-11	SWITCH, LEAF (LIMIT IN)
S11	1-570-203-11	SWITCH, LEAF (LOADING IN/OUT)
S701	1-554-303-21	SWITCH, KEY BOARD (EJECT/LOAD)
S702	1-554-303-21	SWITCH, KEY BOARD (B.SKIP)
S703	1-554-303-21	SWITCH, KEY BOARD (REPEAT)
S704	1-554-303-21	SWITCH, KEY BOARD (F.SKIP)
S705	1-554-303-21	SWITCH, KEY BOARD (F.MANUAL SEARCH)
S706	1-554-303-21	SWITCH, KEY BOARD (B.MANUAL SEARCH)
S707	1-554-303-21	SWITCH, KEY BOARD (AUTO SPACE)
S708	1-554-303-21	SWITCH, KEY BOARD (TIME)
S709	1-554-303-21	SWITCH, KEY BOARD (SHUFFLE)
S710	1-554-303-21	SWITCH, KEY BOARD (PROGRAM)
S711	1-554-303-21	SWITCH, KEY BOARD (PLAY/PAUSE)
S712	1-554-303-21	SWITCH, KEY BOARD (STOP)
S901	1-553-318-00	SWITCH, PUSH (AC POWER) (1 KEY)
T901	1-448-777-11	(US,Canadian)...TRANSFORMER, POWER
T901	1-448-817-11	(AEP,UK).....TRANSFORMER, POWER
X1	1-567-768-21	VIBRATOR, CRYSTAL

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
501	1-558-543-11	CORD, CONNECTION
502	1-558-787-11	CORD, CONNECTION
503	1-558-834-11	(US,Canadian)...CORD, POWER
	1-558-835-11	(AEP).....CORD, POWER
	1-558-032-11	(UK).....CORD, POWER
504	3-701-630-00	BAG, POLYETHYLENE
505	3-703-390-01	INSTRUCTION
	3-795-629-11	(AEP)...INSTRUCTION
506	3-765-810-22	MANUAL, INSTRUCTION
	3-765-810-31	(Canadian)...MANUAL, INSTRUCTION
	3-765-811-11	(AEP,UK).....MANUAL, INSTRUCTION
	3-765-811-41	(AEP).....MANUAL, INSTRUCTION
507	4-912-944-01	CUSHION
508	4-918-411-21	(US).....CARTON, INDIVIDUAL
	4-918-411-31	(EXCEPT FOR US)...CARTON, INDIVIDUAL
509	1-558-233-11	(EXCEPT FOR US)...CORD (WITH CONNECTOR)
510	4-858-078-00	(AEP,UK).....SHEET, PROTECTION

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