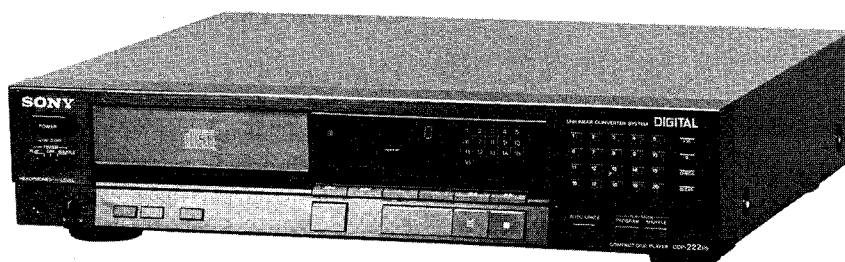


CDP-222ESD/505ESD /910

SERVICE MANUAL



(PHOTO: CDP-222ESD)

CDP-222ESD:
AEP Model
UK Model
E Model

CDP-505ESD:
US Model
Canadian Model

CDP-910:
US Model

SPECIFICATIONS

System	Compact disc digital audio system
Disc	Compact disc
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$)
Laser output	Max. $44.6 \mu\text{W}^*$ * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
Spindle speed	200 rpm to 500 rpm (CLV)
Scan velocity	1.2–1.4 m/sec.
Error correction	Sony Super Strategy Cross Interleave Reed Solomon Code
Number of channel	Two
D/A conversion	16-bit linear
Frequency response	2 – 20,000 Hz $\pm 0.5 \text{ dB}$
Signal-to-noise ratio	More than 102 dB
Dynamic range	More than 95 dB
Harmonic distortion	Less than 0.003% (1 kHz)
Channel separation	More than 98 dB (1 kHz)
Wow and flutter	Below measurable limit
Output jacks	

	Max. output level	Load impedance	Output impedance
LINE OUT	2 V (50 k Ω)	More than 10 k Ω	—
*DIGITAL OUT	0.5 Vp-p (75 Ω)	75 Ω	75 Ω
HEAD-PHONES	28 mW Variable, max	32 Ω	—

*DIGITAL OUT: CDP-222ESD, CDP-505ESD

General

Power requirements

CDP-222ESD:	AEP model 220 V AC 50/60 Hz UK model 240 V AC 50 Hz E model 120, 220 or 240 V AC adjustable, 50/60 Hz
-------------	--

CDP-505ESD, CDP-910:

120 V AC 60 Hz

Power consumption

15W

Dimensions

Approx. 430 x 100 x 335 mm (w/h/d)
(17 x 4 x 13 1/4 inches)

Weight

Approx. 5.3 kg (11 lb 11 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 À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET 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.

COMPACT DISC PLAYER
SONY[®]



AUD

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GENERAL DESCRIPTION

Direct selection

You can play a desired selection simply by pressing the corresponding numeric button (1-20).

Program play

You can play up to 20 selections in the desired order. Selections can be programmed even after play begins.

Variety of playing modes

Disc, program, shuffle and repeat playing modes.

Large and easy-to-read window display

Shows the elapsed playing time, the remaining time of the selection being played, the remaining time of the whole disc or remaining programmed selection numbers.

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 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 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)

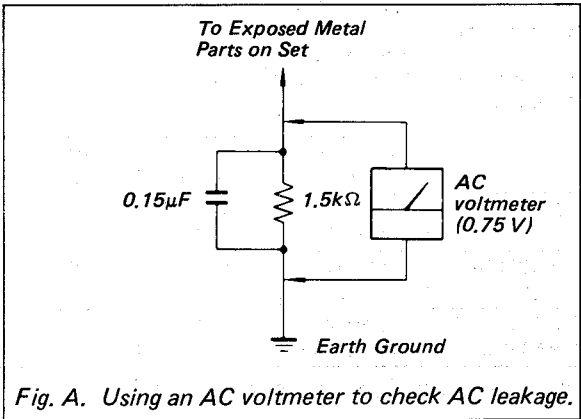


Fig. A. Using an AC voltmeter to check AC leakage.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING !!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30 cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.

1. Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output: max. 0.4 mW*

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

- Classification: Class Ib

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 iøvrigt 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.

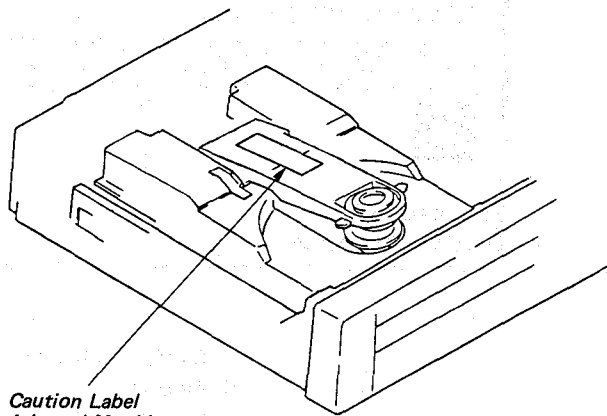
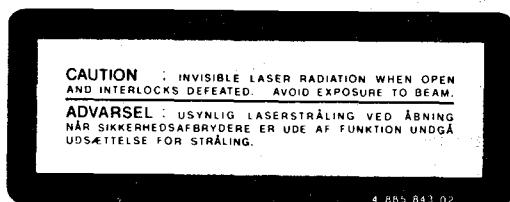
2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laser-dioden) bryder ned, skal hele den optiske pick-up enhed (incl. APC printkortet) udskiftes.

LASER WARNING LABEL

LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

Advarsel Mærkning



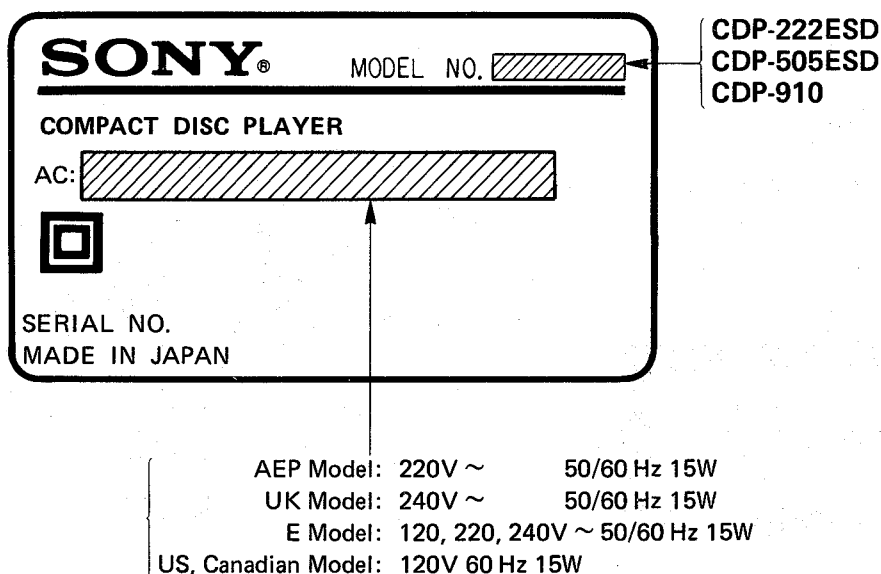
TROUBLE CHECKS

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

TROUBLE	CAUSES	REMEDY
The disc compartment does not close when a disc is inserted and the  button is pressed.	The disc is not placed correctly.	Center the disc correctly in the disc compartment.
Play does not start.	Dirty disc	Clean the disc.
	The disc is inserted with the label surface downward.	Place the disc with the label surface up.
	The  button is engaged.	Press the  button again to release it.
	Moisture condensation	Wait for approx. one hour after turning on the unit then start play.
Sound is not heard.	Loose connection	Connect the cords firmly.
	The DIGITAL OUT switch is set to ON while using the LINE OUT jacks.	Set the DIGITAL OUT switch to OFF.
	The LEVEL control is set to the minimum.	Turn the LEVEL control clockwise.
Display window does not illuminate even when the power turns on.	The AC power cord is disconnected.	Connect the AC power cord firmly.
Play begins when the POWER switch is turned on.	The TIMER switch is set to PLAY or SHUFFLE.	Set the TIMER switch to OFF.

*The above "TROUBLE CHECKS" table has been reprinted from the OPERATION MANUAL of CDP-222ESD for the service man's convenience of interviewing customers.

MODEL IDENTIFICATION

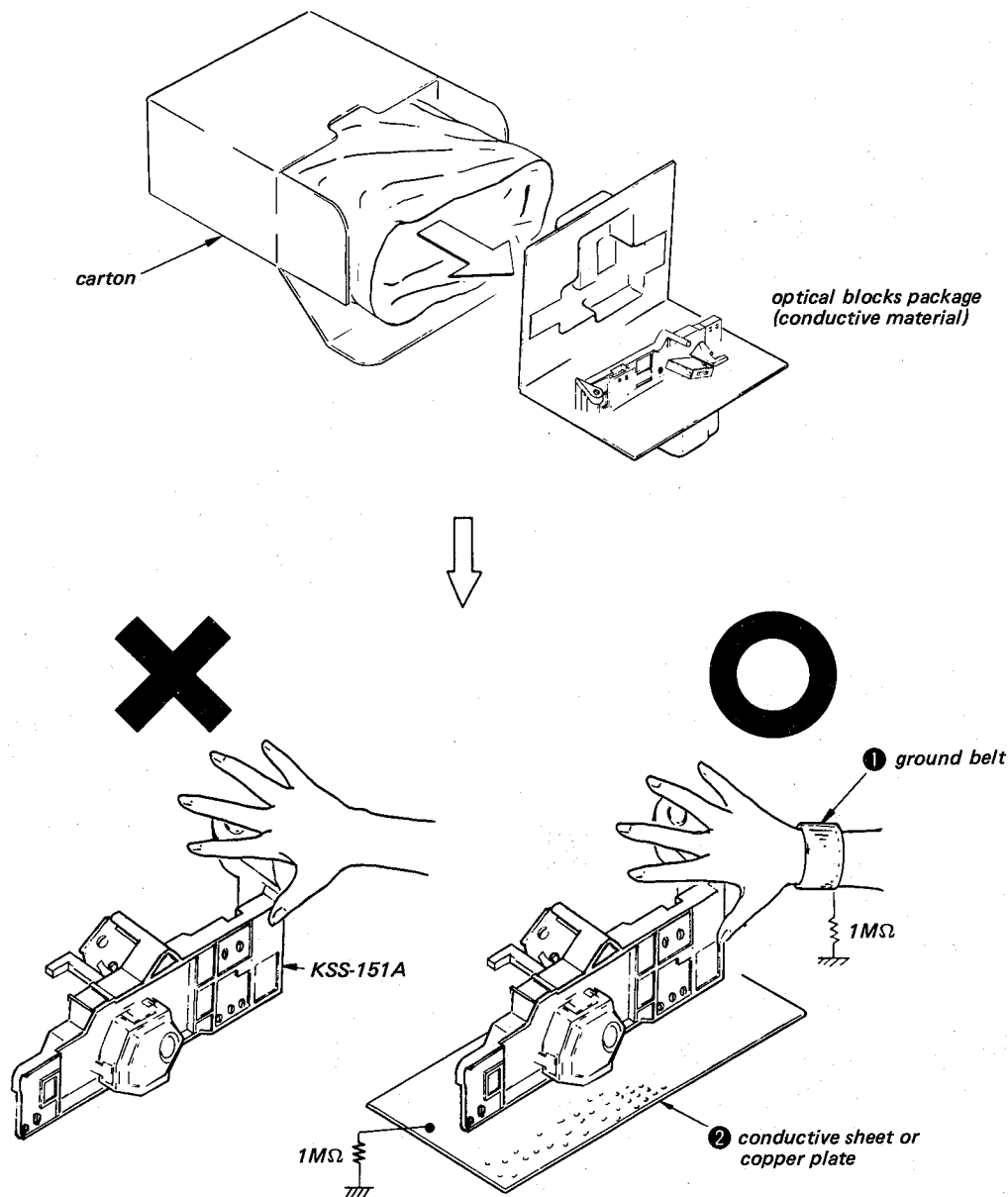


NOTES ON HANDLING THE OPTICAL BLOCK (KSS-151A)

The laser diode inside the optical block may be damaged by static electricity in clothes or the human body.

The following procedures are required when unpacking and repairing KSS-151A in order to avoid static electricity damage.

1. Body grounding
Be sure to wear a ground belt (less than $10^8 \Omega$) in order to release the static electricity stored in the body.
2. Workbench grounding
Place a conductive sheet (less than $10^9 \Omega$) or copper plate on the bench where KSS-151A is to be placed to ground it.
3. Static electricity in the clothing will not be released by the ground belt, so be careful not to let KSS-151A touch clothing.

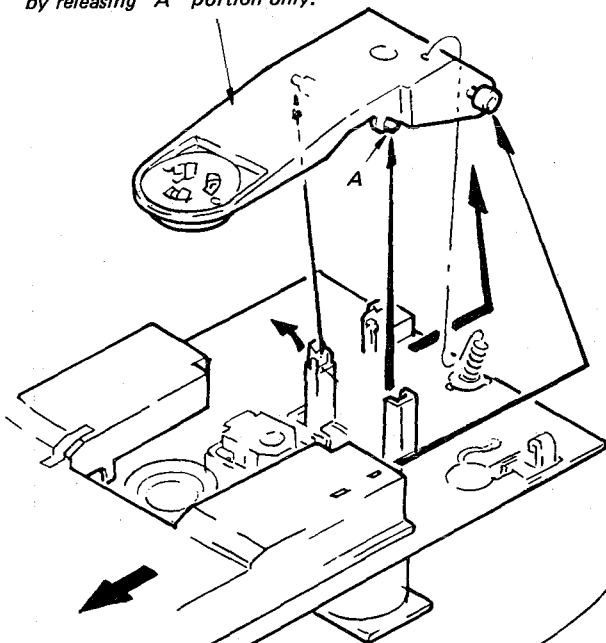


NOTES ON CHECKING THE LASER DIODE AND FOCUS SEARCH OPERATION

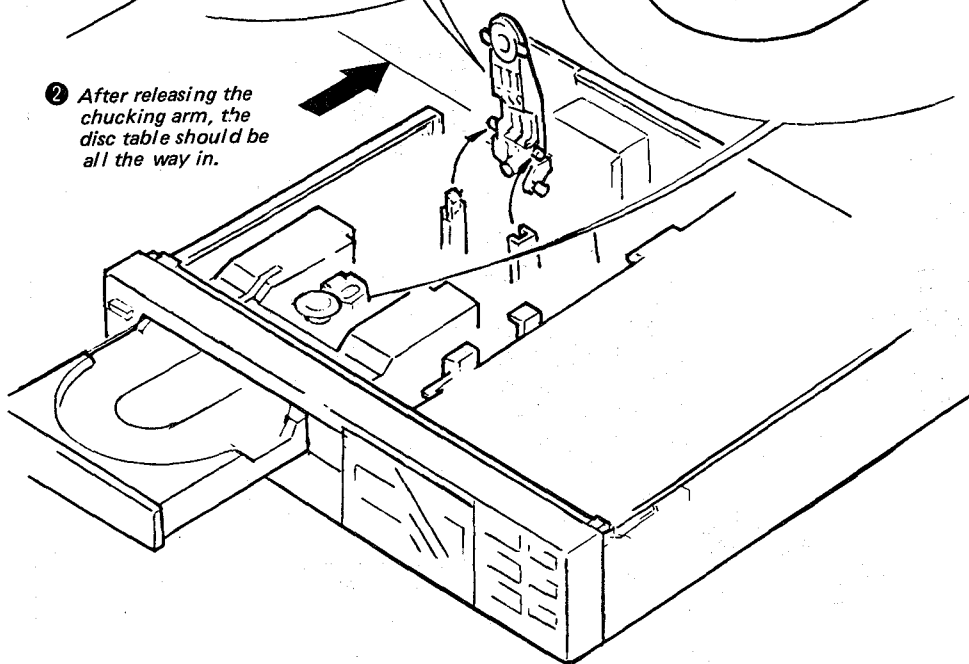
[CAUTION]

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 the chucking arm.
This figure shows the entire chucking arm released, but checking can be done by releasing "A" portion only.

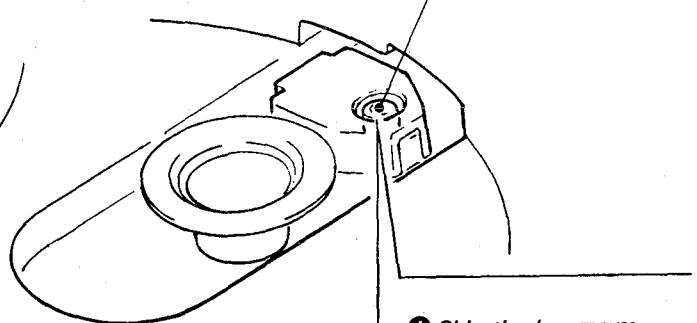


- ② After releasing the chucking arm, the disc table should be all the way in.

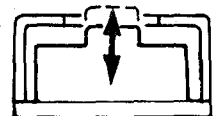


Check if the following operation is performed by looking at the objective lens after releasing the chucking arm and turning the POWER switch on. (Optical block should be at the innermost circumference when checking.) At the same time the LASER DIODE'S LIGHT EMISSION may be checked.

- ③ When the POWER switch is turned on, diffused laser light can be seen.

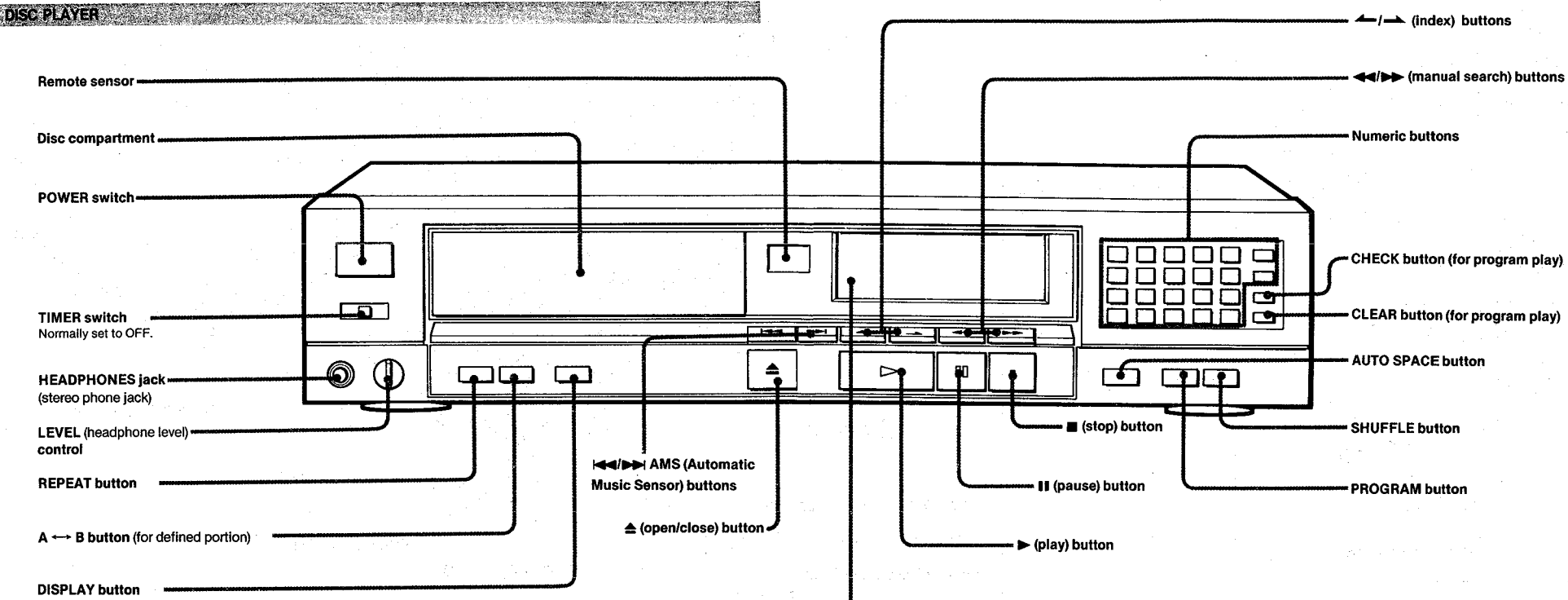


- ④ Objective lens moves up and down (2 - 3 times)

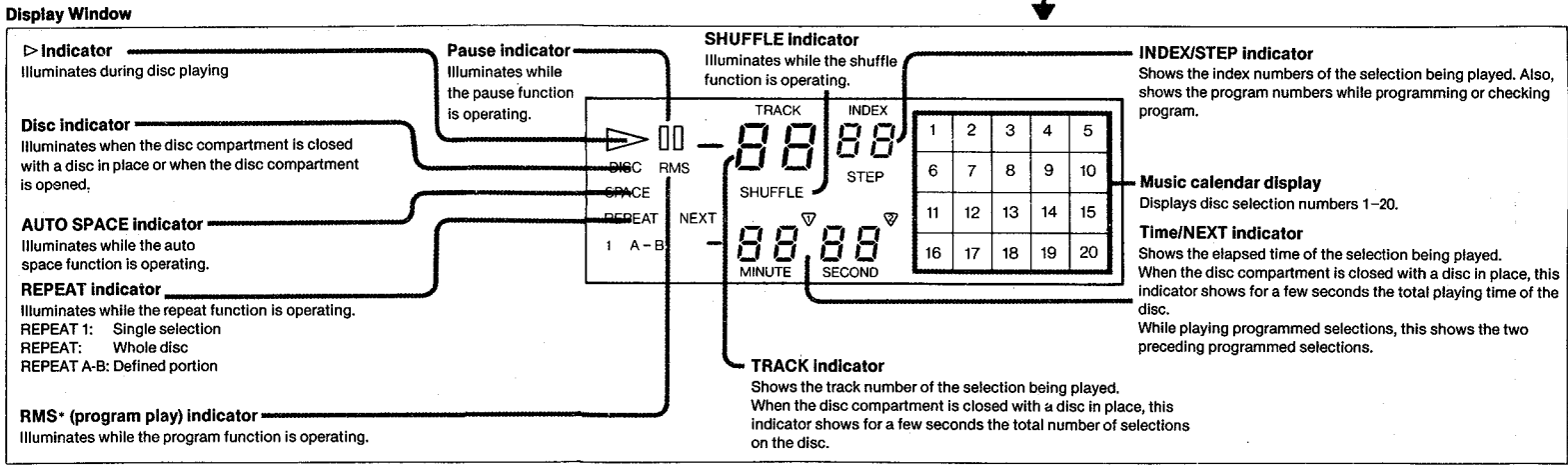
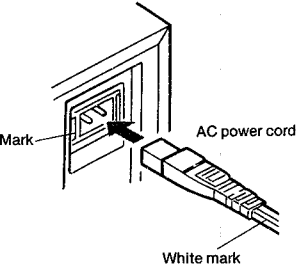


side view of the objective lens

LOCATION OF CONTROLS

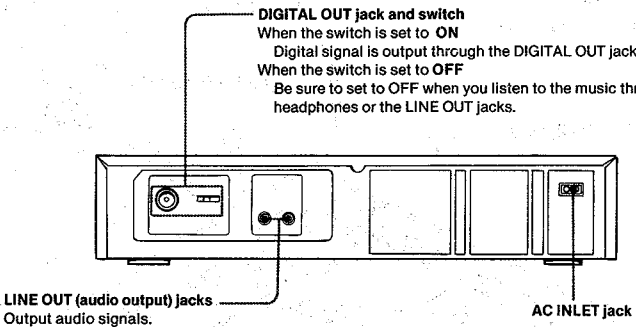


AC power cord
A white mark is visible on one lead of the power cord. Plug the cord into the AC INLET jack at the rear of the player so that its white mark matches the mark on the AC INLET jack. This aligns the polarity of the power cord for optimum sound quality.



* RMS is an abbreviation of Random Music Sensor.

DESCRIPTION ON REAR PANEL

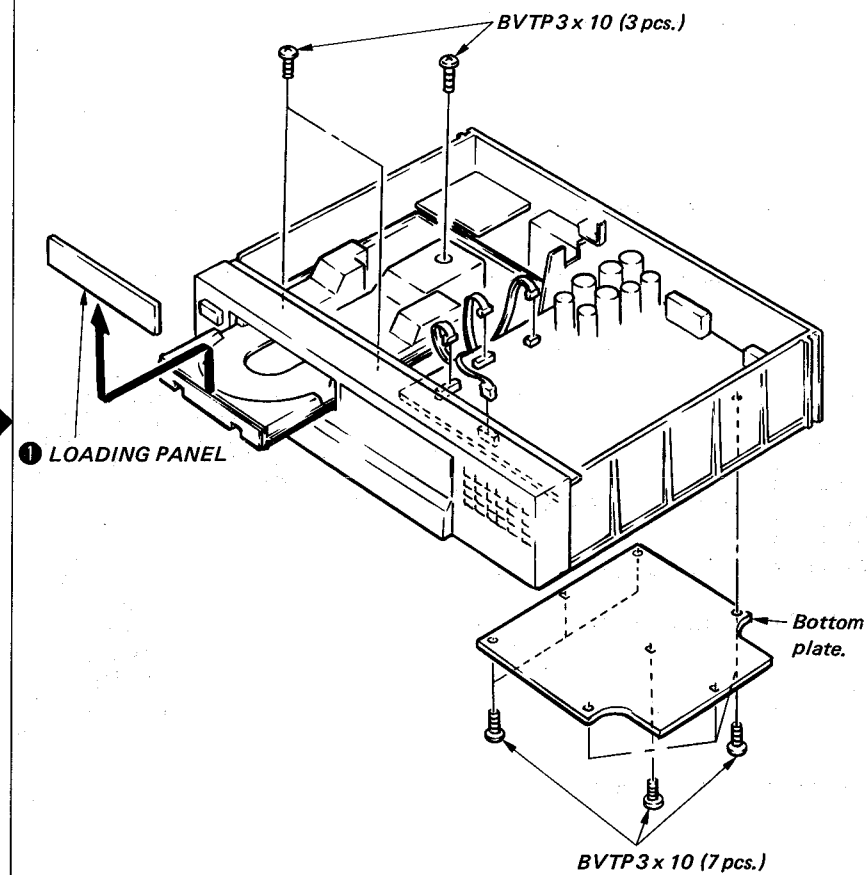


The AC voltage selector is provided for the model for other countries than European countries and the United Kingdom.

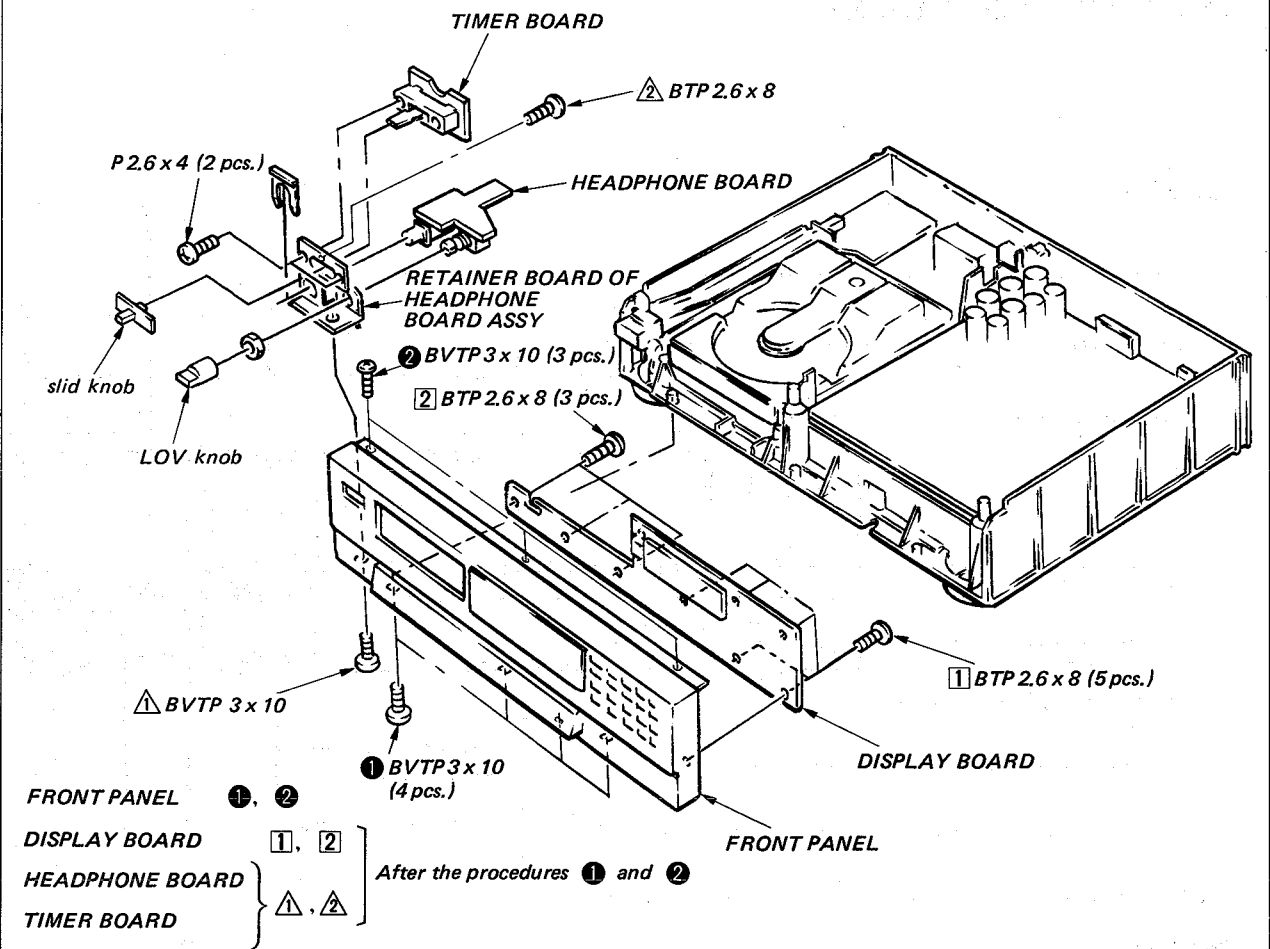
SECTION 1 DISASSEMBLY

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

MD AND BOTTOM PLATE

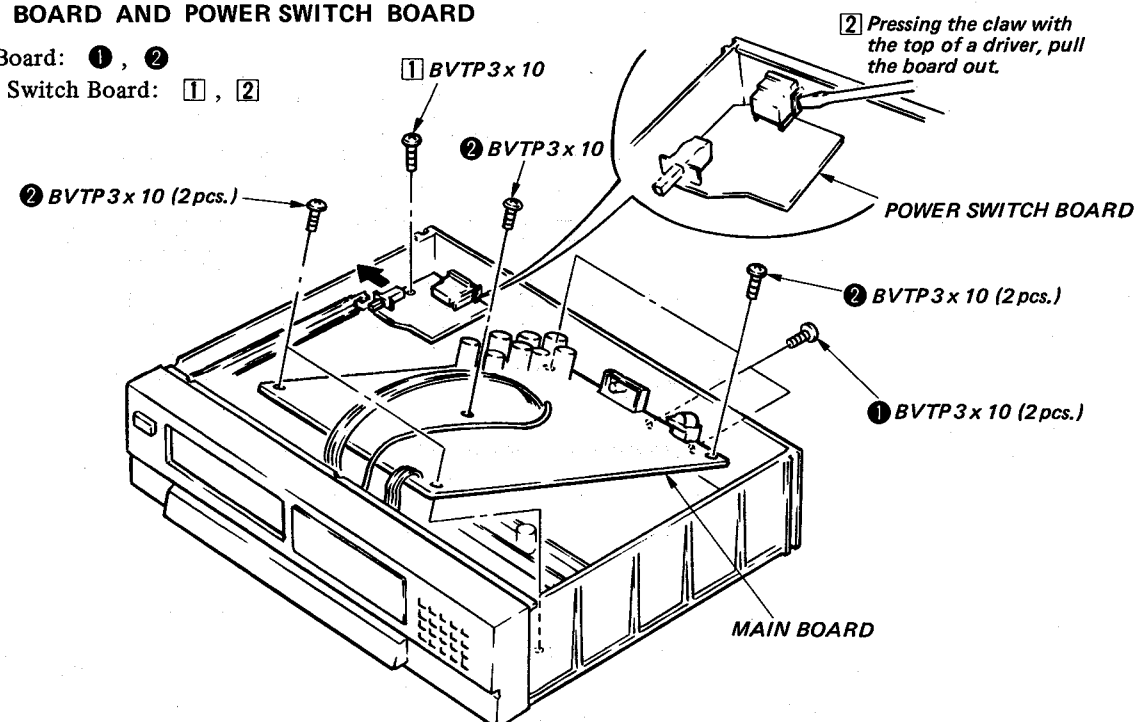


FRONT PANEL, DISPLAY BOARD, HEADPHONE BOARD AND TIMER BOARD



MAIN BOARD AND POWER SWITCH BOARD

Main Board: 1, 2
Power Switch Board: 1, 2



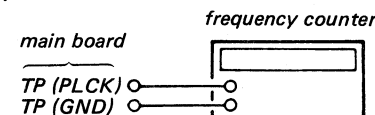
SECTION 2 ADJUSTMENTS

ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-1 disc unless otherwise indicated.
3. Use the oscilloscope with more than 10M Ω impedance.

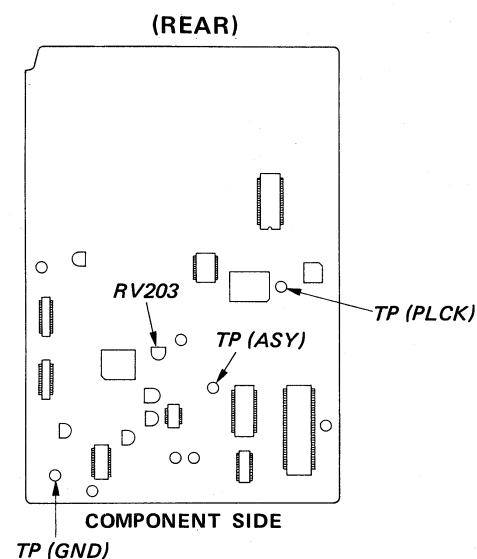
RF PLL Frequency Adjustment/Lock Frequency Check

Procedure:



1. Ground test point TP (ASY).
2. Connect the frequency counter to the test points TP (PLCK) and TP (GND).
3. Turn POWER switch on.
4. Adjust RV203 so that the reading on the frequency counter is 4.3218 MHz $\pm$ 30 kHz. ... (RF PLL frequency adjustment)
5. Remove the grounding wire from TP (ASY).
6. Put the disc (YEDS-1) in and press button.
7. Confirm that the reading on the frequency counter is locked at 4.3218 MHz.

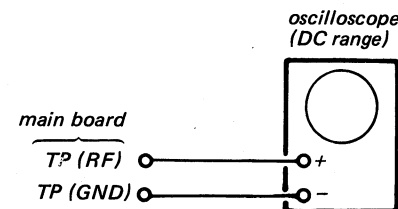
Adjustment Location: main board



Focus Bias Adjustment

This adjustment should be made after replacing the Optical Pick-up Block.

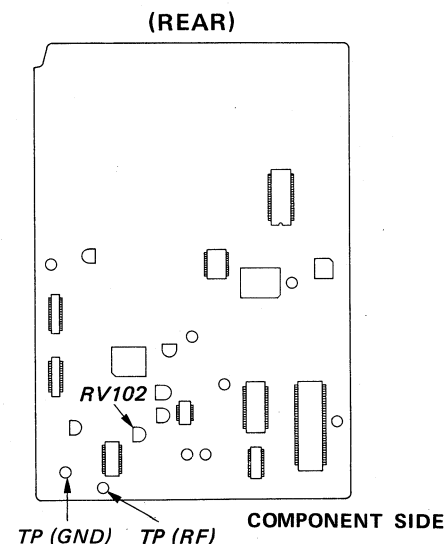
Procedure:



1. Connect oscilloscope to the test points TP (RF) and TP (GND).
2. Turn POWER switch on.
3. Put the disc (YEDS-1) in and press $\triangleright$ button.
4. Adjust RV102 for an optimum waveform eye pattern. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.



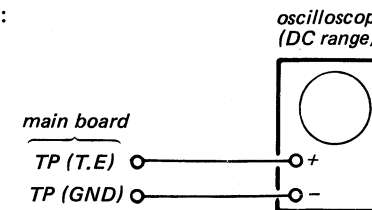
Adjustment Location: main board



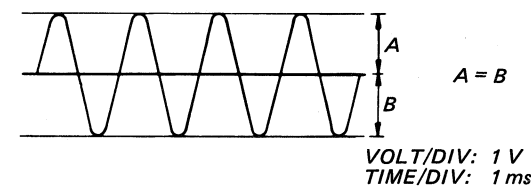
E-F Balance Adjustment

This adjustment should be made after replacing the Optical Pick-up Block.

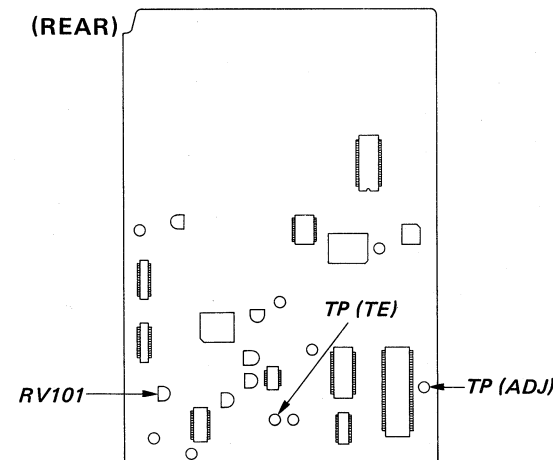
Procedure:



1. Connect the oscilloscope to the test points TP (T.E) and TP (GND).
2. Ground TP (GND) to set an adjustment mode.
3. Turn POWER switch on.
4. Put the disc (YEDS-1) in and press $\triangleright$ button.
5. Adjust RV101 so that the traverse waveform is symmetrical above and below.
6. After adjustment, cancel the adjustment mode.



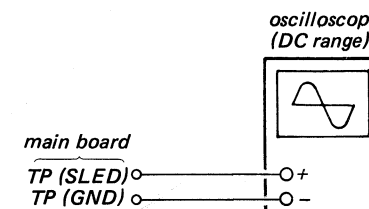
Adjustment Location: main board



SLED MOTOR OFF-SET ADJUSTMENT

This adjustment should be made after replacing the Optical Pick-up Block.

Procedure:



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, this adjustment is not recommended generally to be performed.

Focus/tracking gains determine the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

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.

Symptoms	Gain	Focus	Tracking
• The time until music starts becomes longer for STOP $\rightarrow$ $\triangleright$ PLAY or automatic selection ($\llcorner$ $\triangleright$ buttons pressed. (Normally takes about 2 seconds.)		low	low or high
• Music does not start and disc continues to rotate for STOP $\rightarrow$ $\triangleright$ PLAY or automatic selection ($\llcorner$ $\triangleright$ buttons pressed.)		—	low
• Disc table opens shortly after STOP $\rightarrow$ $\triangleright$ 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	high

The following

— Simple Adjust

Note: Since exact number the position adjustment are or the original

Procedure:

main board

TP (FE)/O

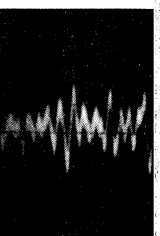
TP (TE)/O

1. Keep the set flat. If the set cannot be p the 2 axis de

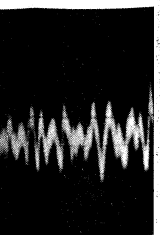
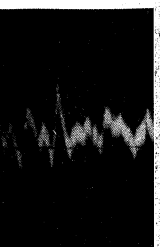
2. Insert the button.

3. Connect the (GND).

4. Adjustment shown in the ment)



- Inccorrent E from the adj



necessary in
even if it is
ore, this ad-
to be per-

c-up follow-
mechanical
-axis device
stment is at

1 the 2-axis
ceptible to
more easily.
ptoms below

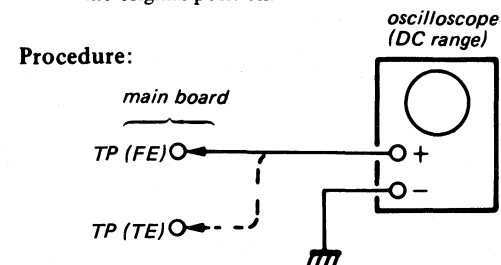
Tracking
low or high
low
—
low
high

D) and TP
the oscillo-

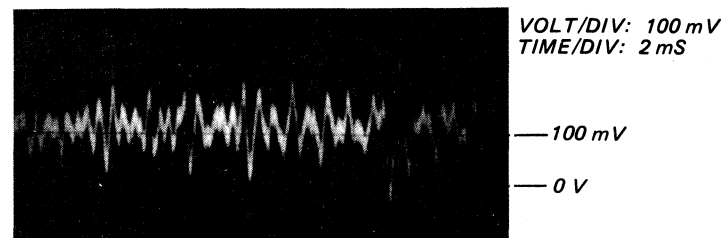
The following is a simple adjustment method.

— Simple Adjustment —

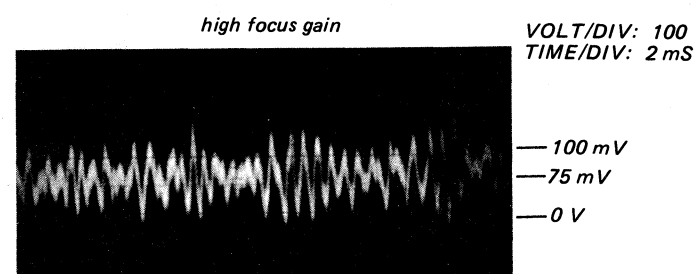
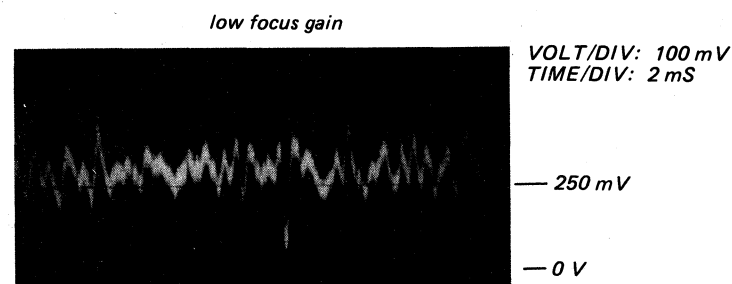
Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.



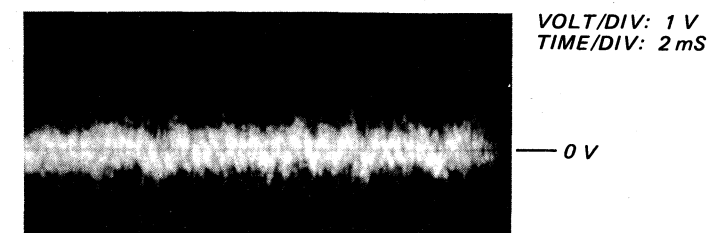
1. Keep the set flat.
If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.
2. Insert the disc (YEDS-1) and press ▷PLAY button.
3. Connect the oscilloscope to TP (FE) and TP (GND).
4. Adjustment RV201 so that the waveform is as shown in the picture below. (focus gain adjustment)



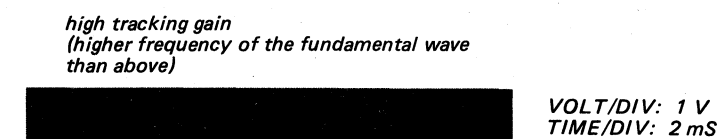
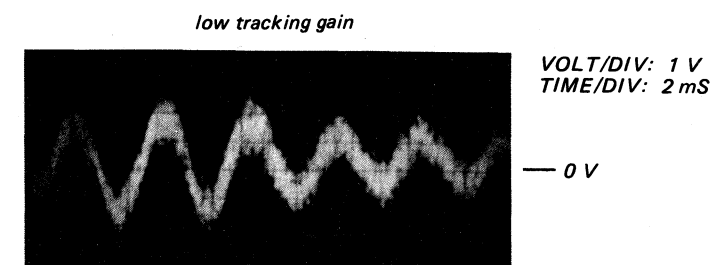
- Inconrrent Examples (DC level is quite different from the adjusted waveform) (below)



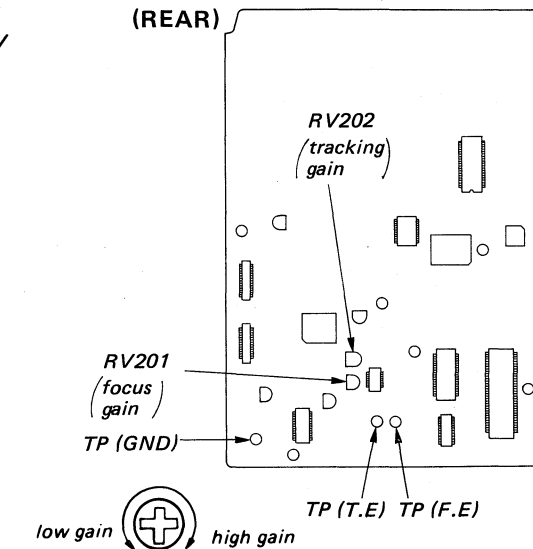
5. Connect the oscilloscope to TP (TE).
6. Adjust RV202 so that the waveform is as shown in the picture below. (tracking gain adjustment)



- Incorrect Examples (fundamental wave appears)



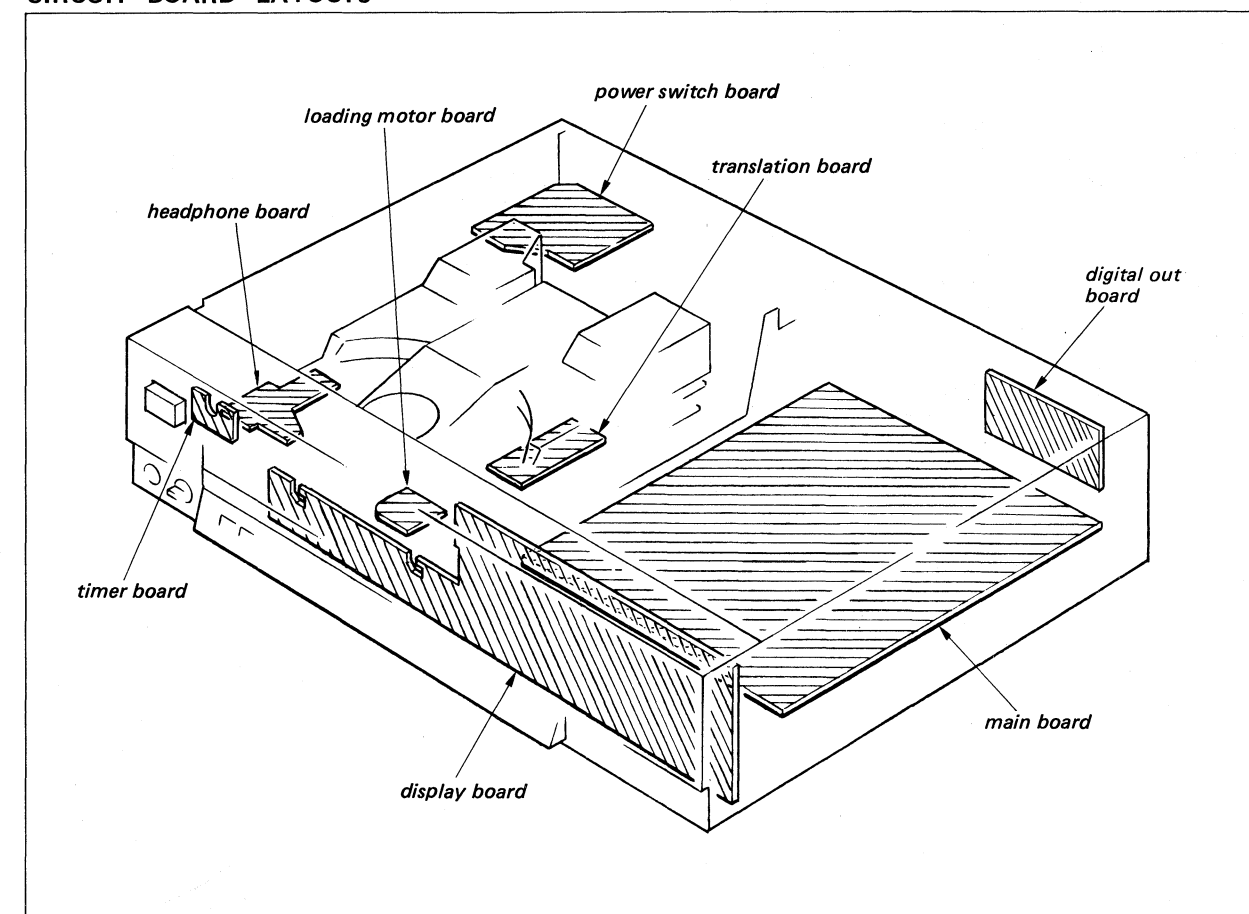
Adjustment Location: main board (REAR)



• Semiconductor Lead Layouts

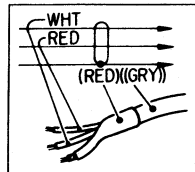
1SS202-1 HZS33-2L HZS9B-2L HZS4.3NB3 cathode anode	TC74HC04P TC74HC02P 141312111098 1234567 (Top view)	CXD1088Q 3322 4412 (Top view)	CXA1081M 3016 115 (Top view)	CXD1125Q 6440 8025 MARKING SIDE VIEW
DF02M RDF02M	MC14053BF TDA1541-N5 2815 114 (Top view)	STA341M M5218L 12345678	M5F7905 M5F79M15 COMMON IN OUT	LA6500-FA 12345
GP08DPKG23	LC6523H-3270 3016 115 (Top view)	NJM4560S 123456789	LC3516AML-15 (Top view)	2SA1428Y E C B
NE5532P 8765 1234 (Top view)	MSM6404A-181RS 42302527 15101521 (Top view)	M5F7805 M5F7815 IN GND OUT	DTC114ES DTA114ES 2SC634SP E C B	2SC3622A-K E C B
CXP5016H-206S 64 (Top view)		CXA1082AQ 4837 1336 1225 (Top view)	2SB734 2SD774 E C B	

CIRCUIT BOARD LAYOUTS



3-1. MOUNTING DIAGRAM

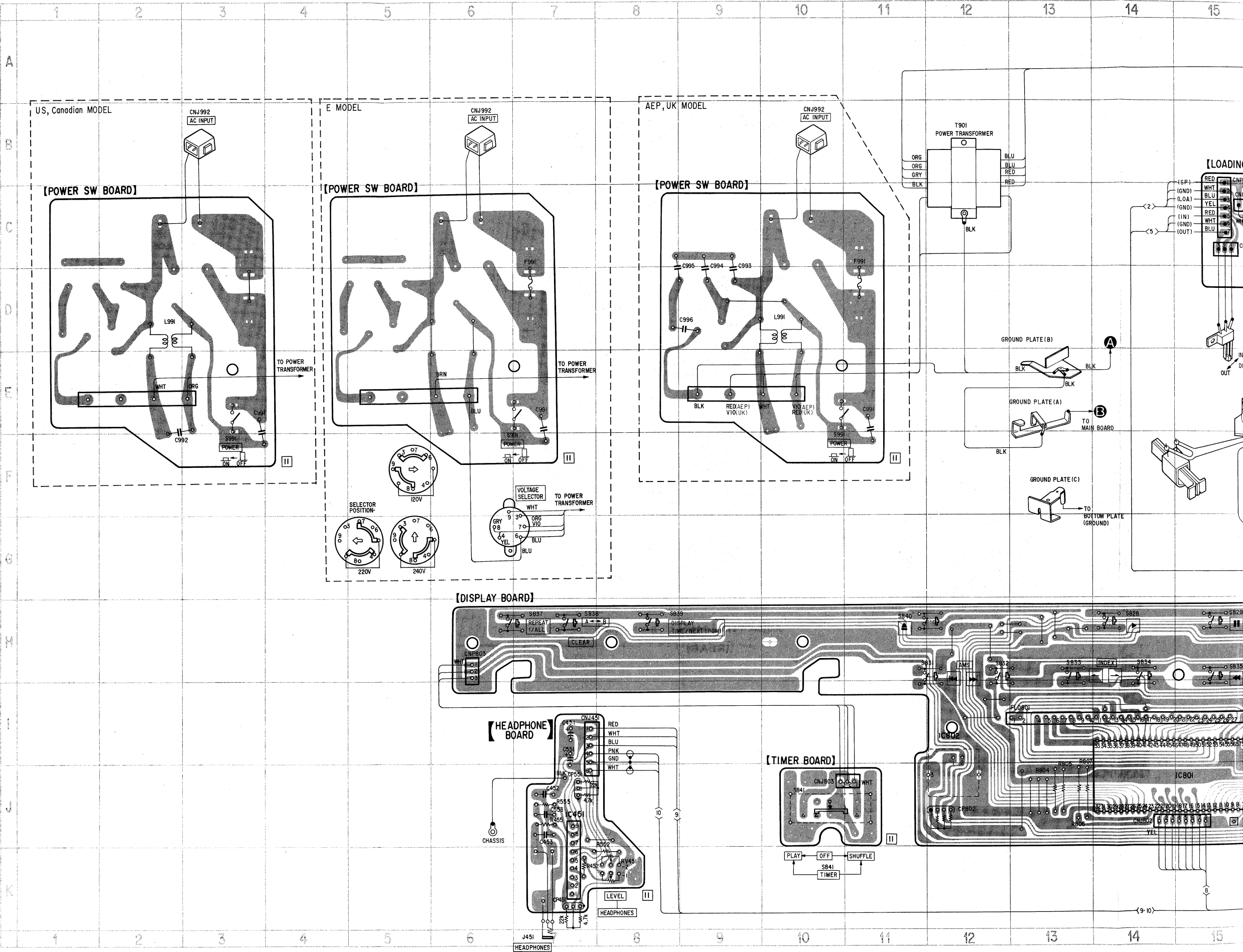
Note:
• Color code of sleeving over the end of the jacket.



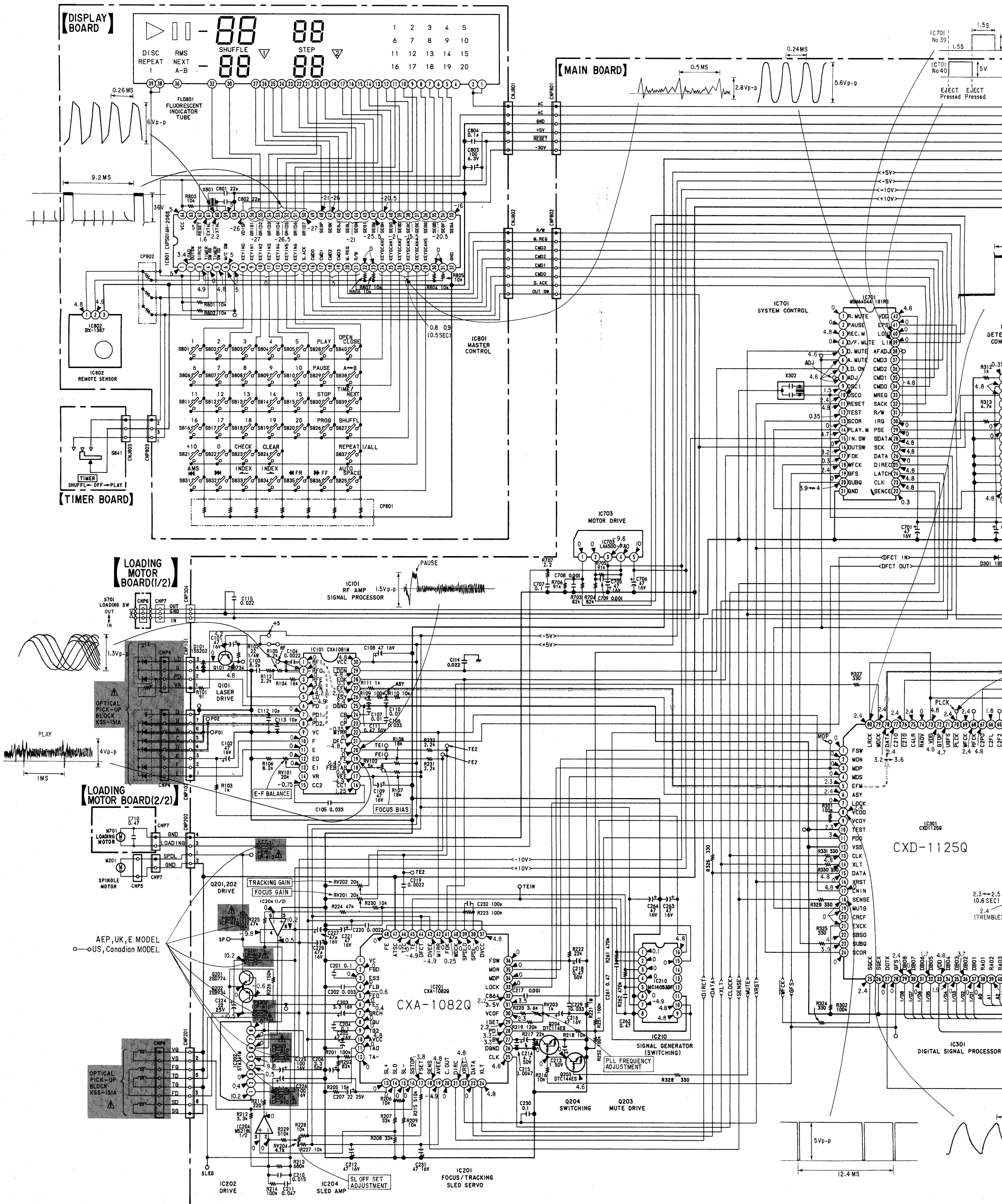
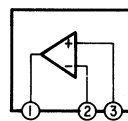
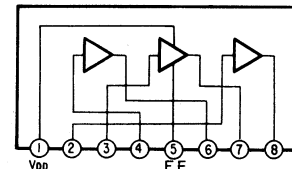
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : part mounted on the conductor side.

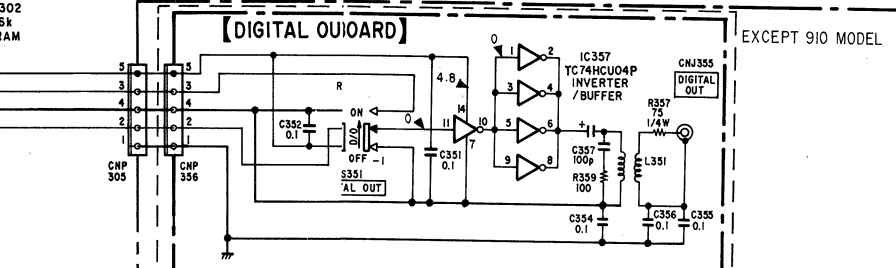
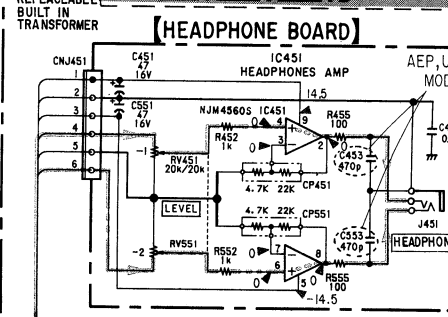
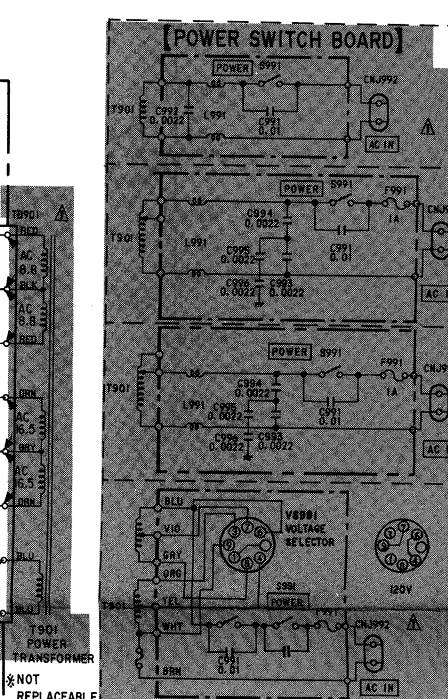
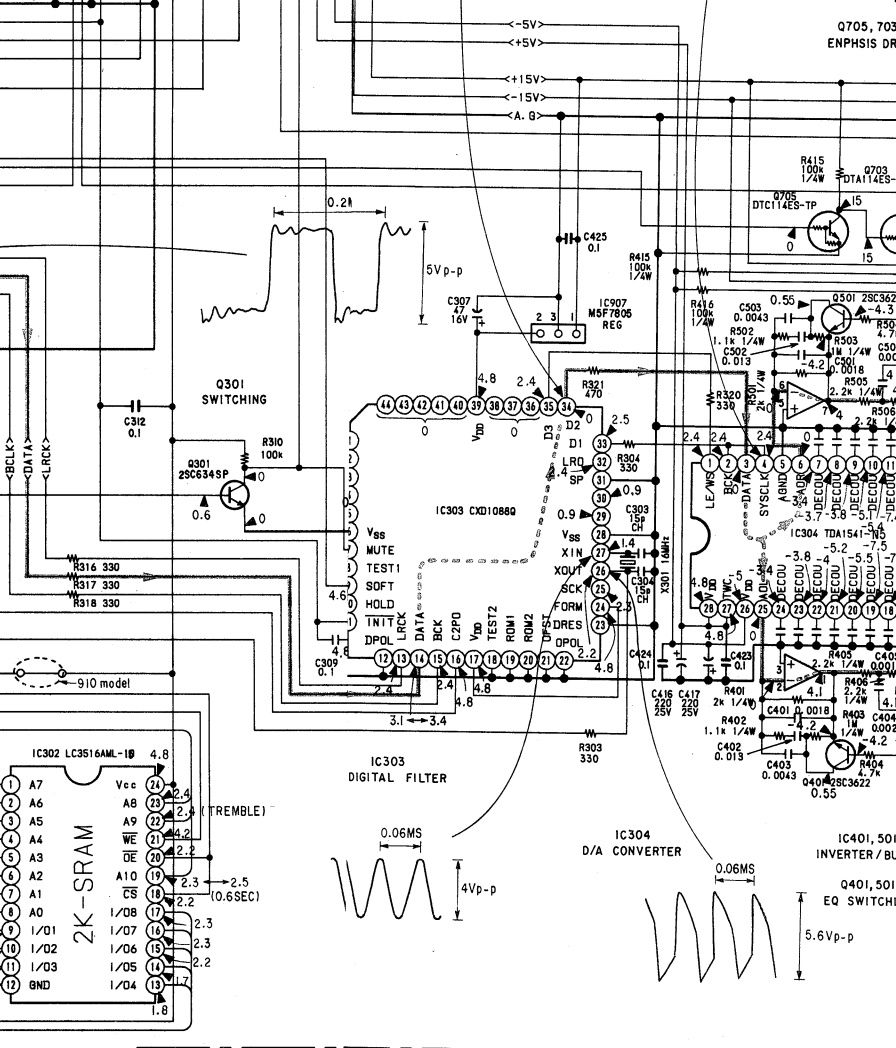
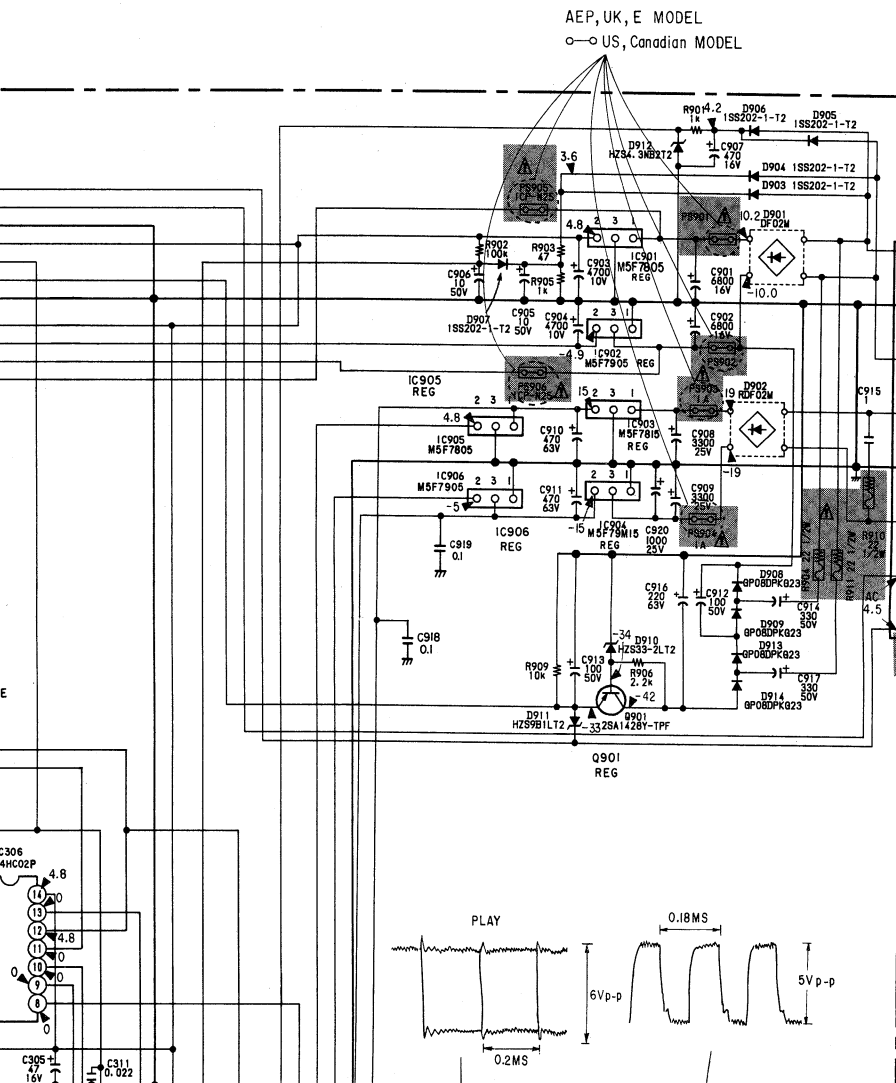
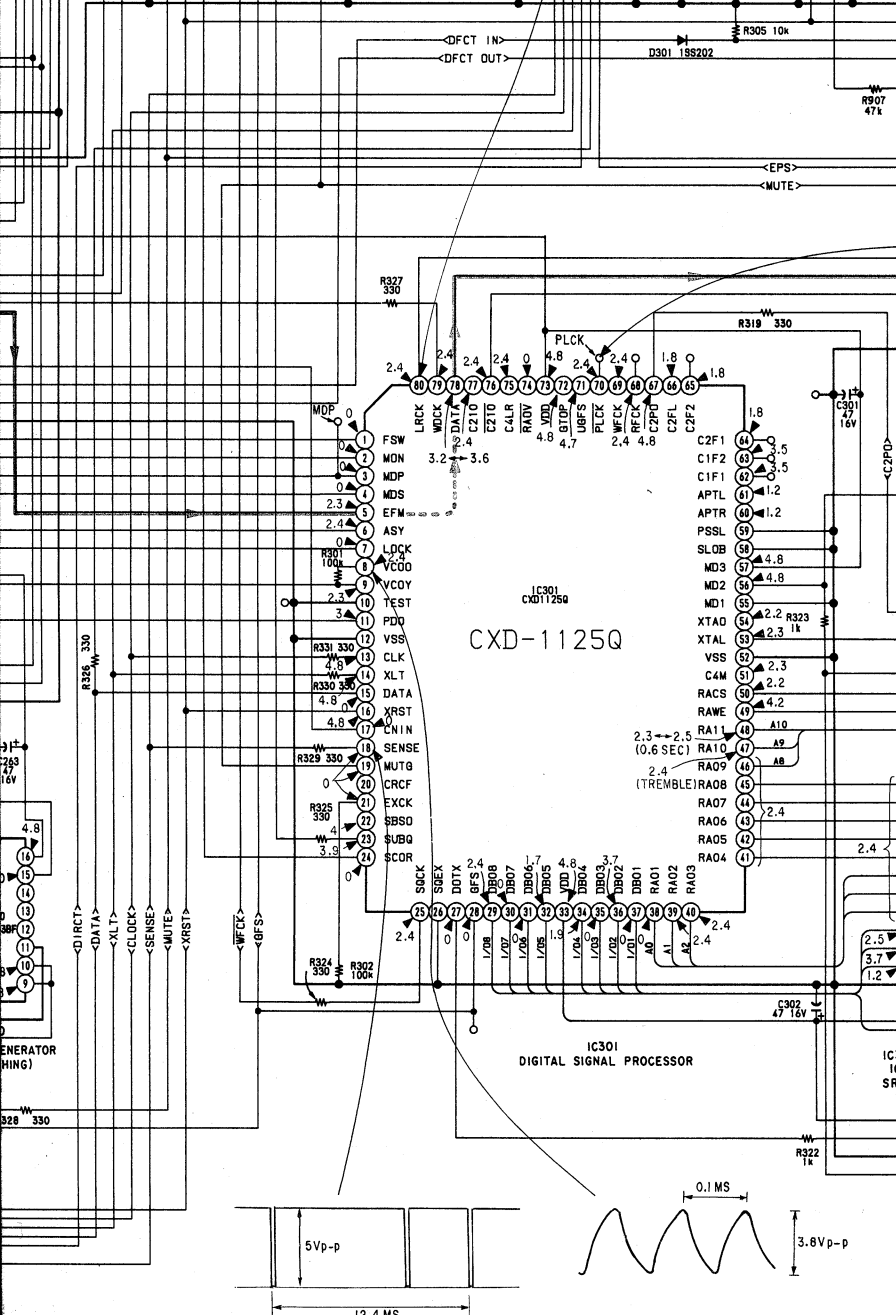
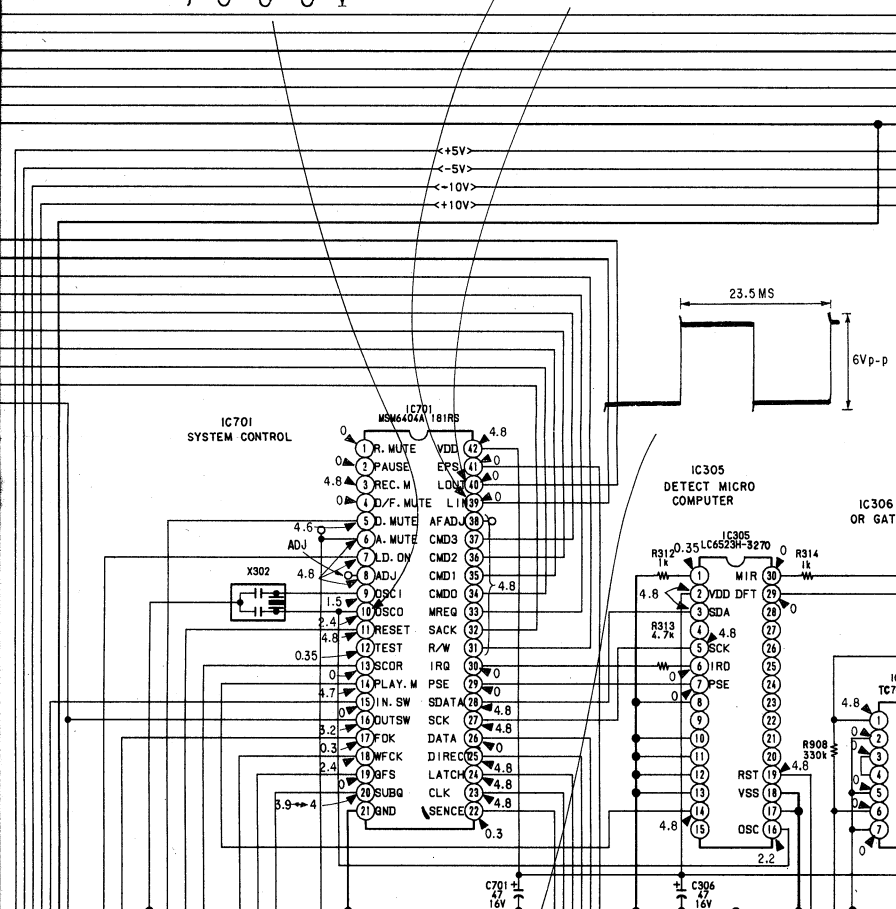
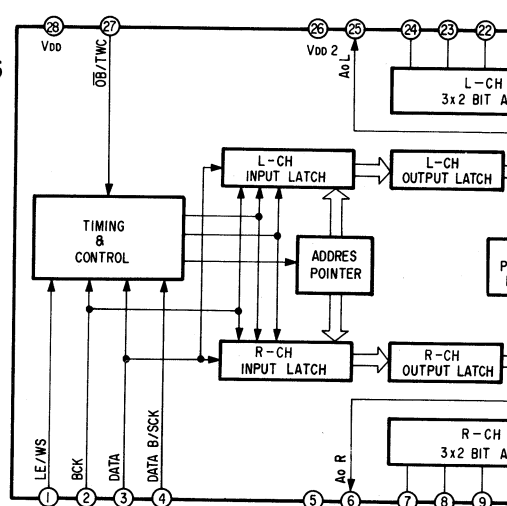
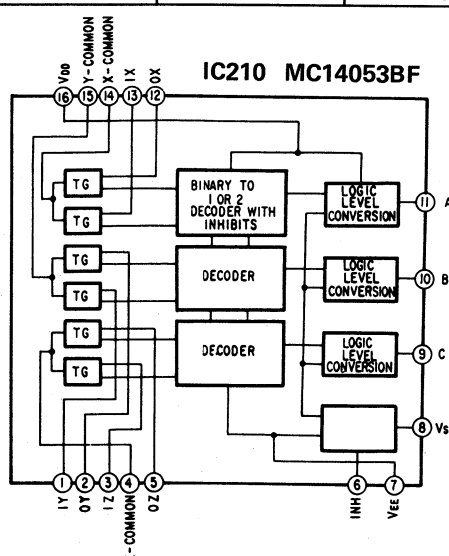
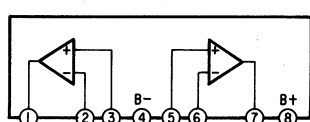
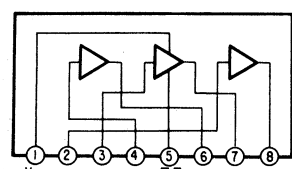
• SEMICONDUCTOR LOCATIONS

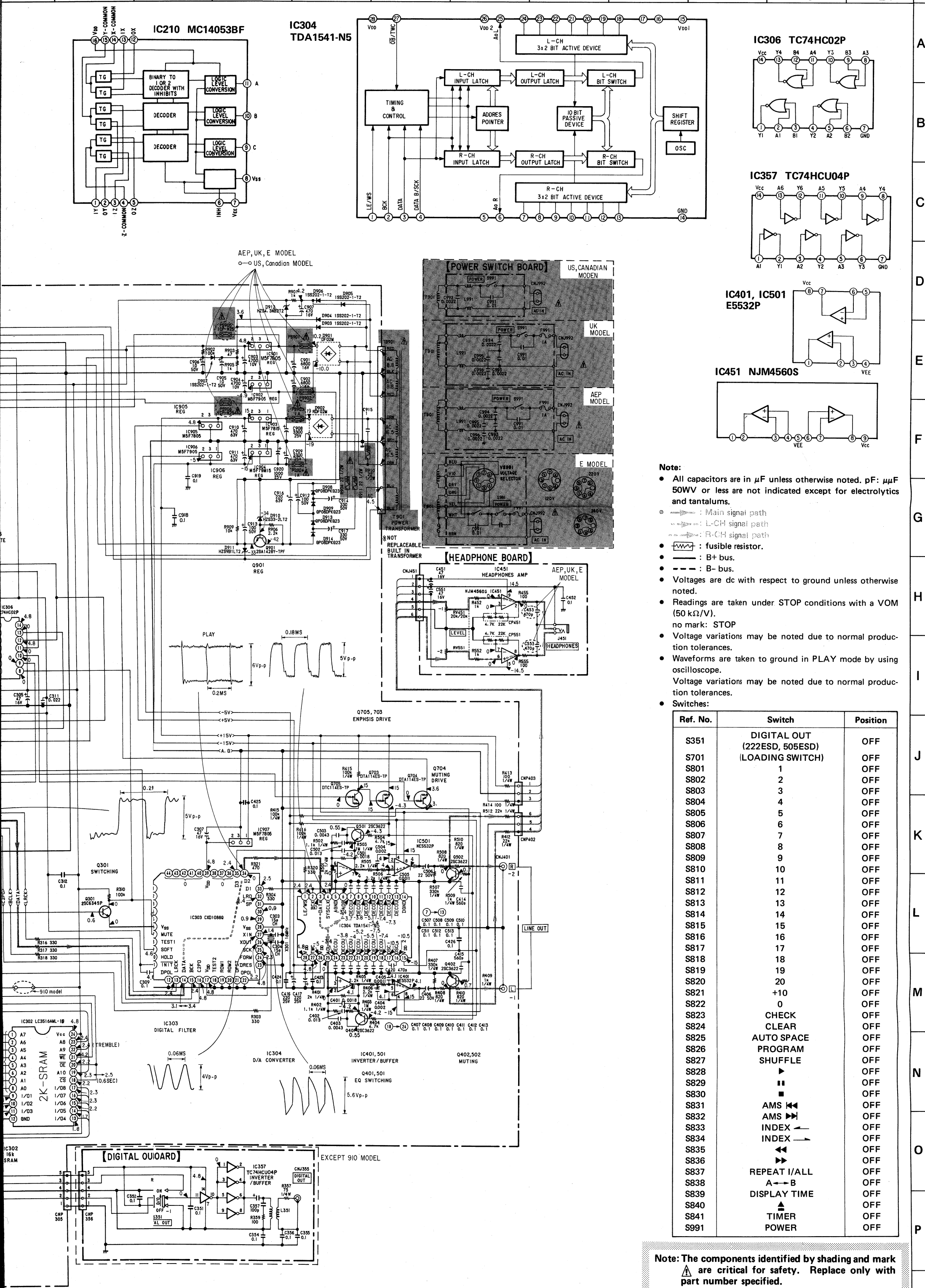
Ref. No.	Location	Ref. No.	Location
D101	K-29	IC401	C-24
D301	J-25	IC451	J-7
D901	C-29	IC501	C-23
D902	B-29	IC701	J-23
D903	E-28	IC703	I-29
D904	E-28	IC801	J-15
D905	E-28	IC802	I-12
D906	E-28	IC901	D-27
D907	E-29	IC902	C-27
D908	D-29	IC903	D-25
D909	D-29	IC904	D-25
D910	E-29	IC905	E-22
D911	E-29	IC906	E-24
D912	E-28	IC907	E-22
D913	C-29		
D914	C-29		
IC101	J-27	Q101	K-29
IC201	H-27	Q201	H-29
IC202	G-28	Q202	H-29
IC203	H-28	Q203	F-26
IC204	H-28	Q204	F-26
IC210	I-26	Q301	G-23
IC301	E-24	Q401	C-25
IC302	F-25	Q402	B-25
IC303	F-23	Q501	C-22
IC304	E-23	Q502	B-23
IC305	I-24	Q703	B-23
IC306	J-24	Q704	B-23
IC357	C-18	Q705	B-23
		Q901	E-29



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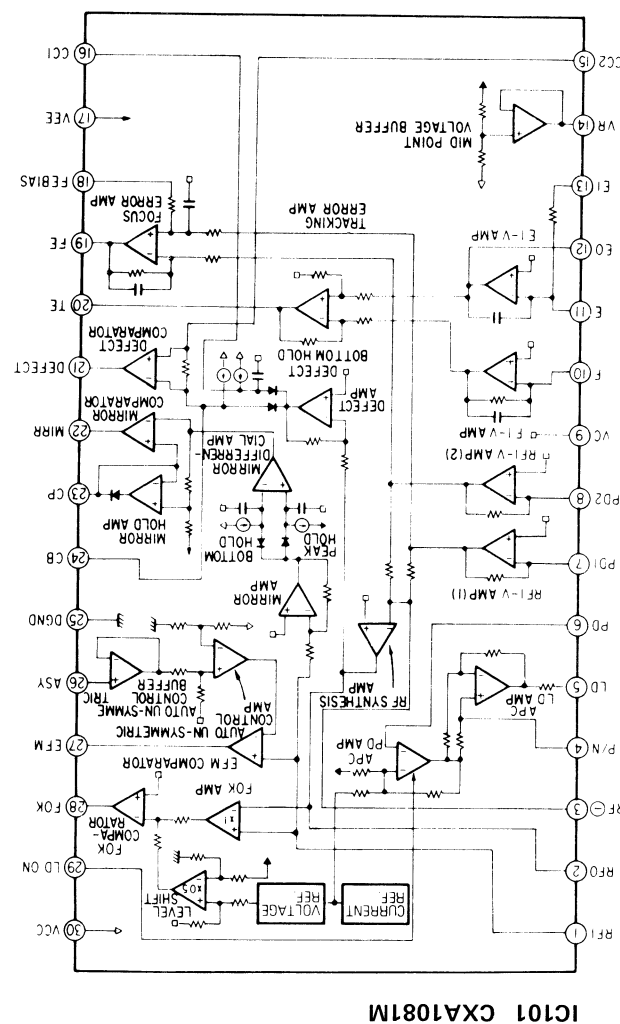
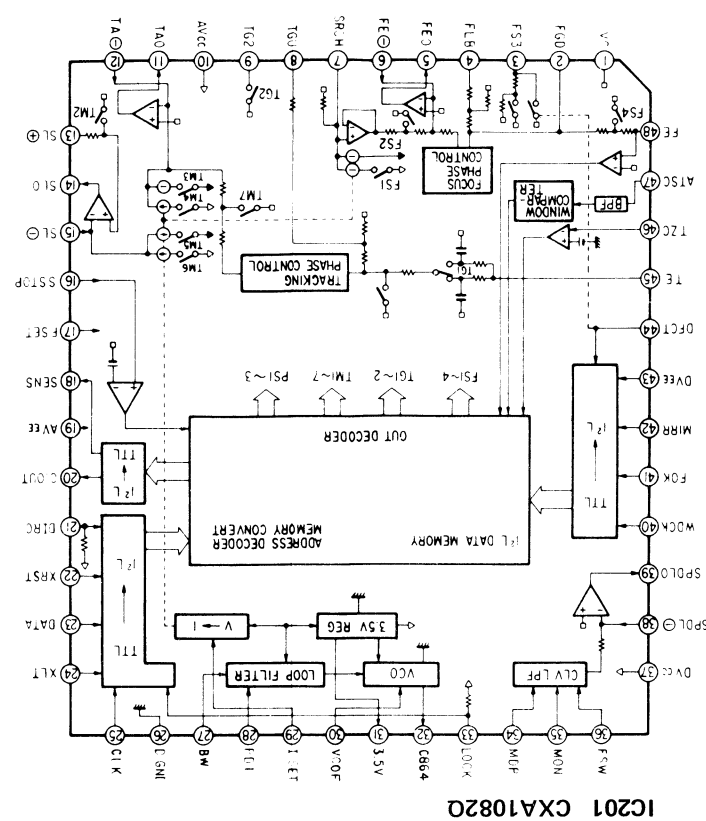




- Note:**
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
 - —: Main signal path
 - —: L-CH signal path
 - —: R-CH signal path
 - —: fusible resistor.
 - —: B+ bus.
 - —: B- bus.
 - Voltages are dc with respect to ground unless otherwise noted.
 - Readings are taken under STOP conditions with a VOM (50 $\text{k}\Omega/\text{V}$). no mark: STOP
 - Voltage variations may be noted due to normal production tolerances.
 - Waveforms are taken to ground in PLAY mode by using oscilloscope. Voltage variations may be noted due to normal production tolerances.
 - Switches:

Ref. No.	Switch	Position
S351	DIGITAL OUT (222ESD, 505ESD) (LOADING SWITCH)	OFF
S701	1	OFF
S801	2	OFF
S802	3	OFF
S803	4	OFF
S804	5	OFF
S805	6	OFF
S806	7	OFF
S807	8	OFF
S808	9	OFF
S809	10	OFF
S810	11	OFF
S811	12	OFF
S812	13	OFF
S813	14	OFF
S814	15	OFF
S815	16	OFF
S816	17	OFF
S817	18	OFF
S818	19	OFF
S819	20	OFF
S820	+10	OFF
S821	0	OFF
S822	CHECK	OFF
S823	CLEAR	OFF
S824	AUTO SPACE	OFF
S825	PROGRAM	OFF
S826	SHUFFLE	OFF
S827	▶	OFF
S828	■	OFF
S829	■	OFF
S830	■	OFF
S831	AMS ▶▶	OFF
S832	AMS ◀◀	OFF
S833	INDEX ◀	OFF
S834	INDEX ▶	OFF
S835	▶▶	OFF
S836	◀◀	OFF
S837	REPEAT I/ALL	OFF
S838	A ↔ B	OFF
S839	DISPLAY TIME	OFF
S840	▲	OFF
S841	TIMER	OFF
S991	POWER	OFF

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



CDP-222ESD/505ES

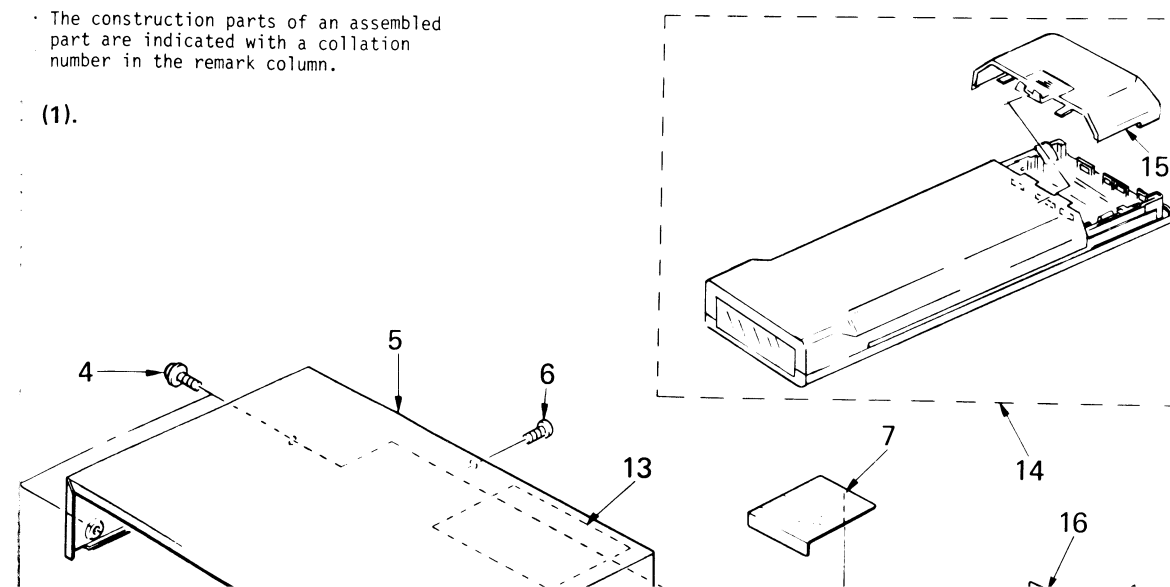
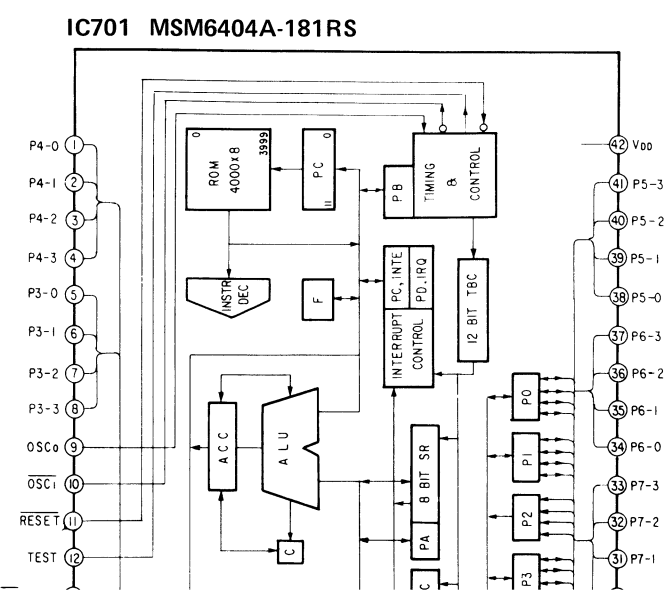
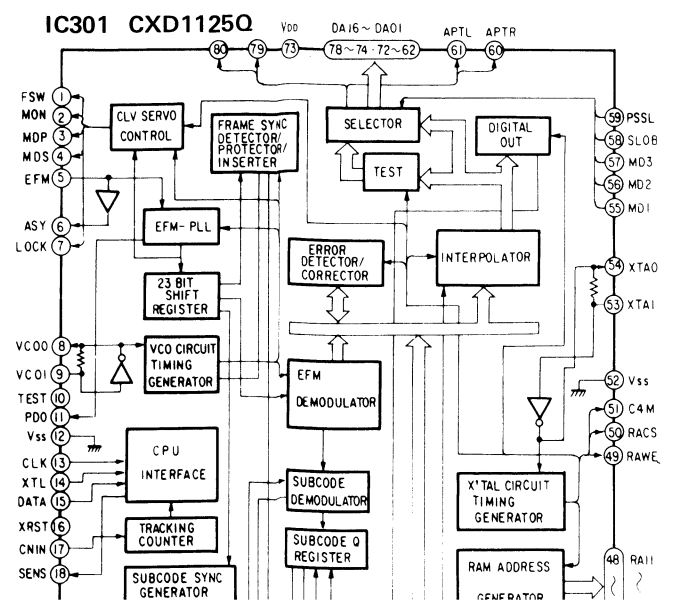
SECTION 4

EXPLODED VIEWS AND PARTS LIST

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 construction parts of an assembled part are indicated with a collation number in the remark column.

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.
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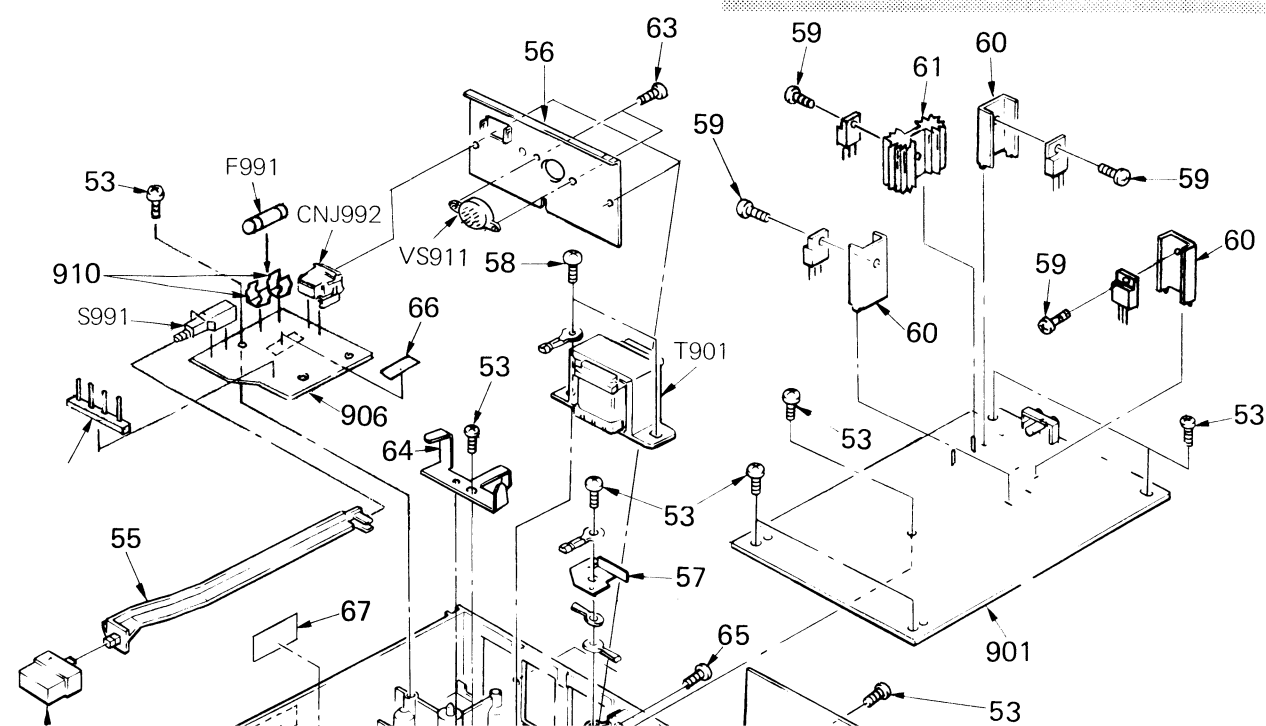
CDP-22ESD/505ESD/910 CDP-22ESD/505ESD/910

- 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 construction parts of an assembled part are indicated with a collation number in the remark column.

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.



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.



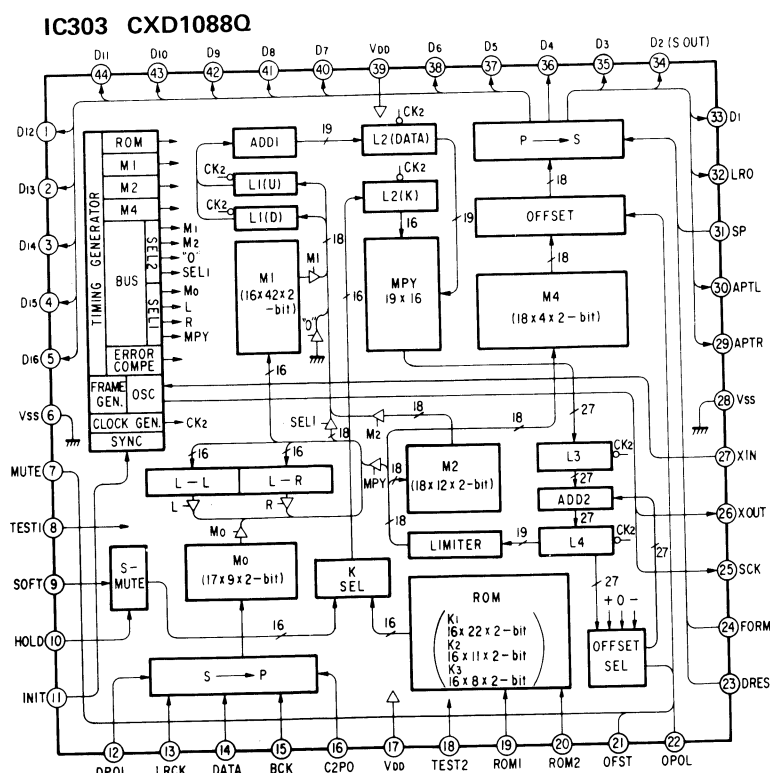
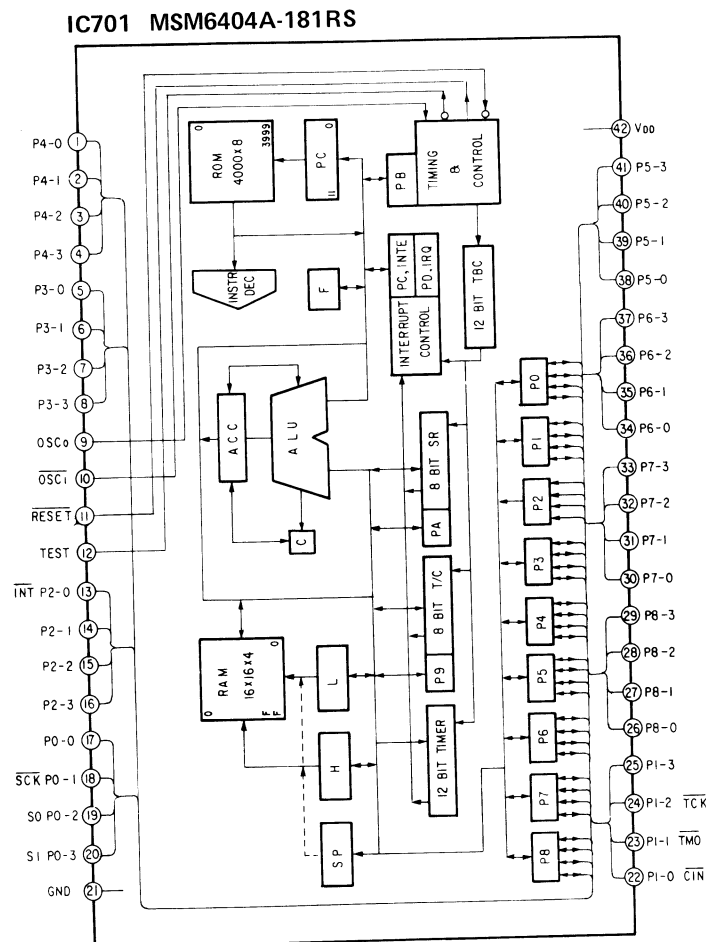
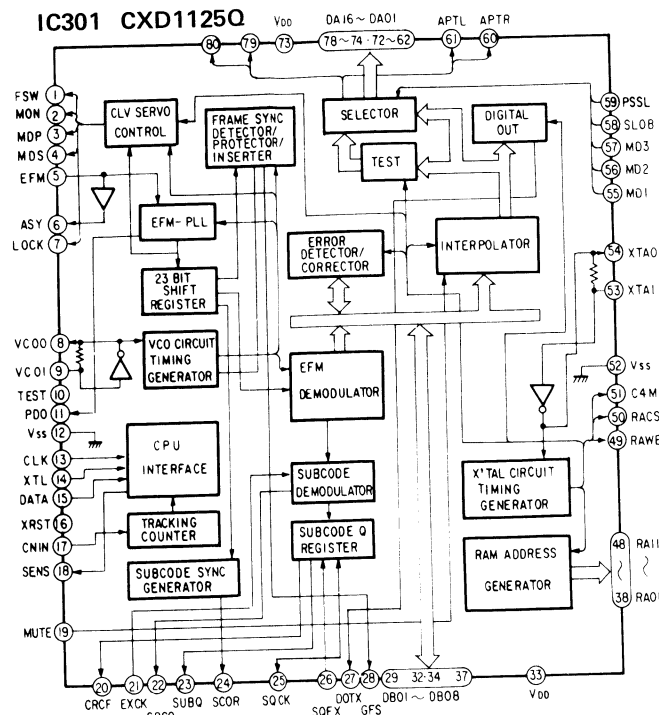
SECTION 4 EXPLODED VIEWS AND PARTS LIST

NOTE:

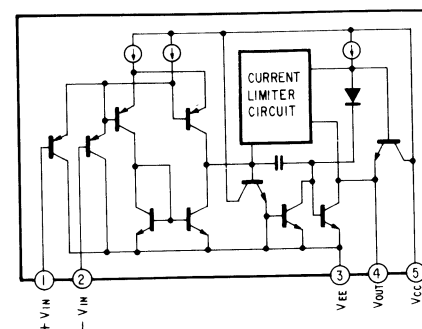
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

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

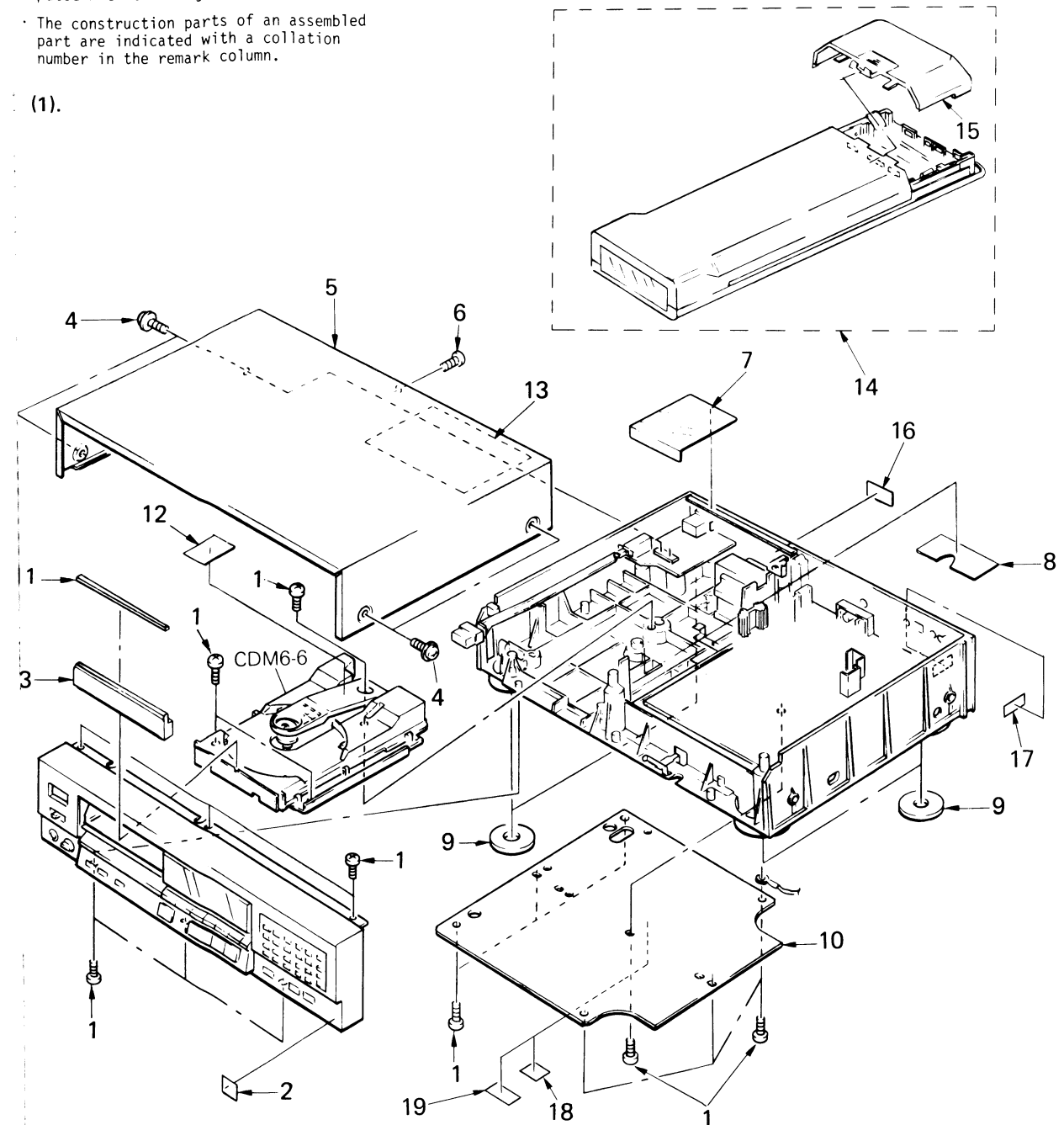
Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



IC703 LA6500-FA



(1).



Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	11	4-912-933-01	ESCUTCHEON, LOADING PANEL	
2	3-703-710-41	STICKER, SONY SYMBOL (12)	12	*4-913-955-01	DUMPER (D)	
3	4-912-961-01	PANEL, LOADING	13	*4-917-634-01	DAMPER (C)	
4	3-703-135-31	SCREW, TAPPING	14	1-463-817-11	REMOTE COMMANDER (RM-D350A)	
5	4-912-939-01	CASE	15	4-917-494-01	LID, BATTERY CASE	
6	3-703-473-11	SCREW, TERMINAL	16	*4-885-838-00	(222)...LABEL, CLASS 1	
7	*4-912-931-01	COVER, POWER	17	*3-701-030-00	LABEL, SERIAL NUMBER	
8	*4-912-910-01	LABEL (ENGLISH), CAUTION	18	3-703-680-00	(505:US,910)...LABEL, CAUTION SUB, NEW UL	
9	4-912-919-01	FOOT	19	3-703-079-21	(UK)...LABEL, CAUTION (BACK)	
0	*4-912-912-21	PLATE, BOTTOM				

SECTION 4

EXPLODED VIEWS AND PARTS LIST

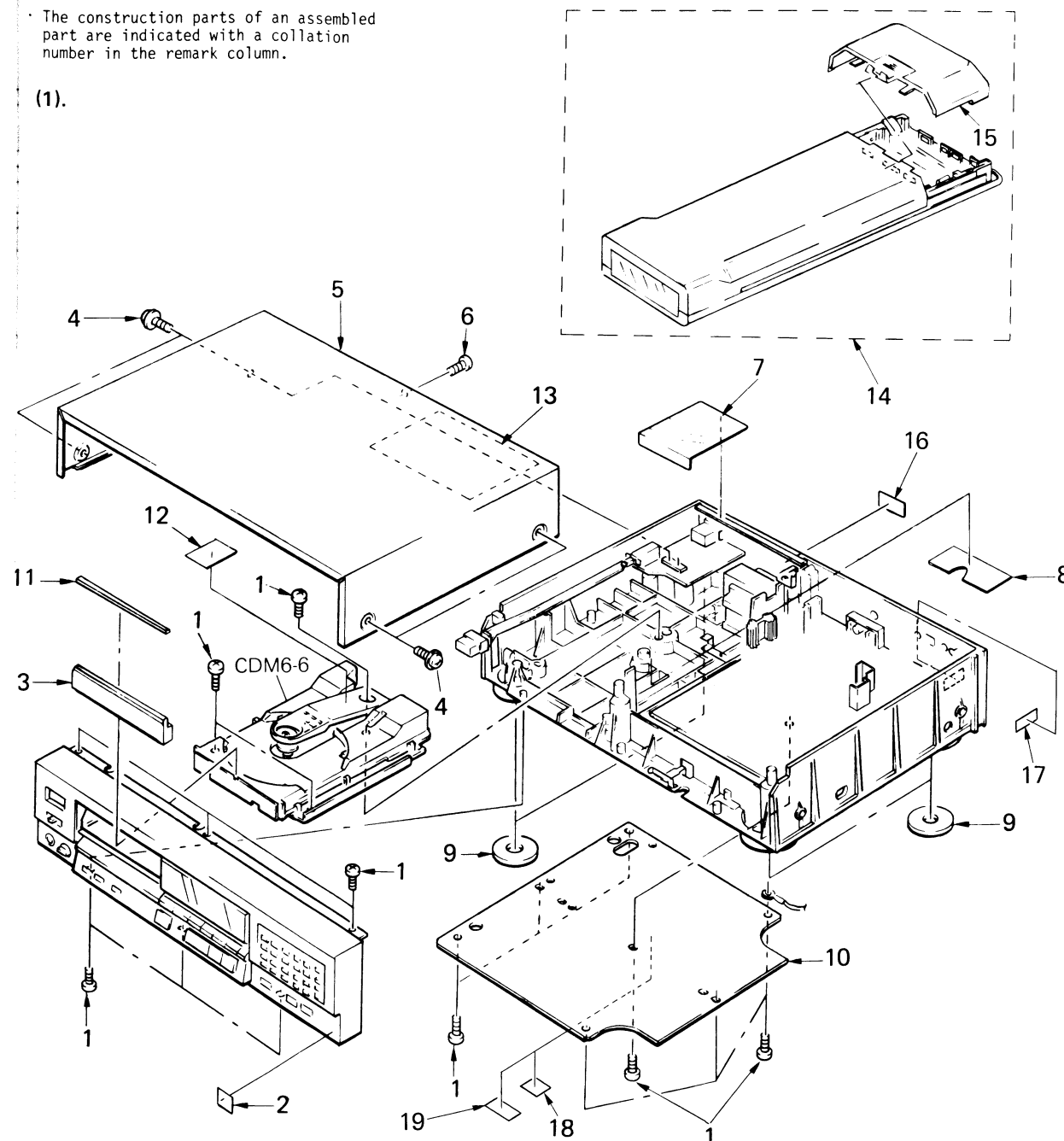
NOTE:

- 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 construction parts of an assembled part are indicated with a collation number in the remark column.

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

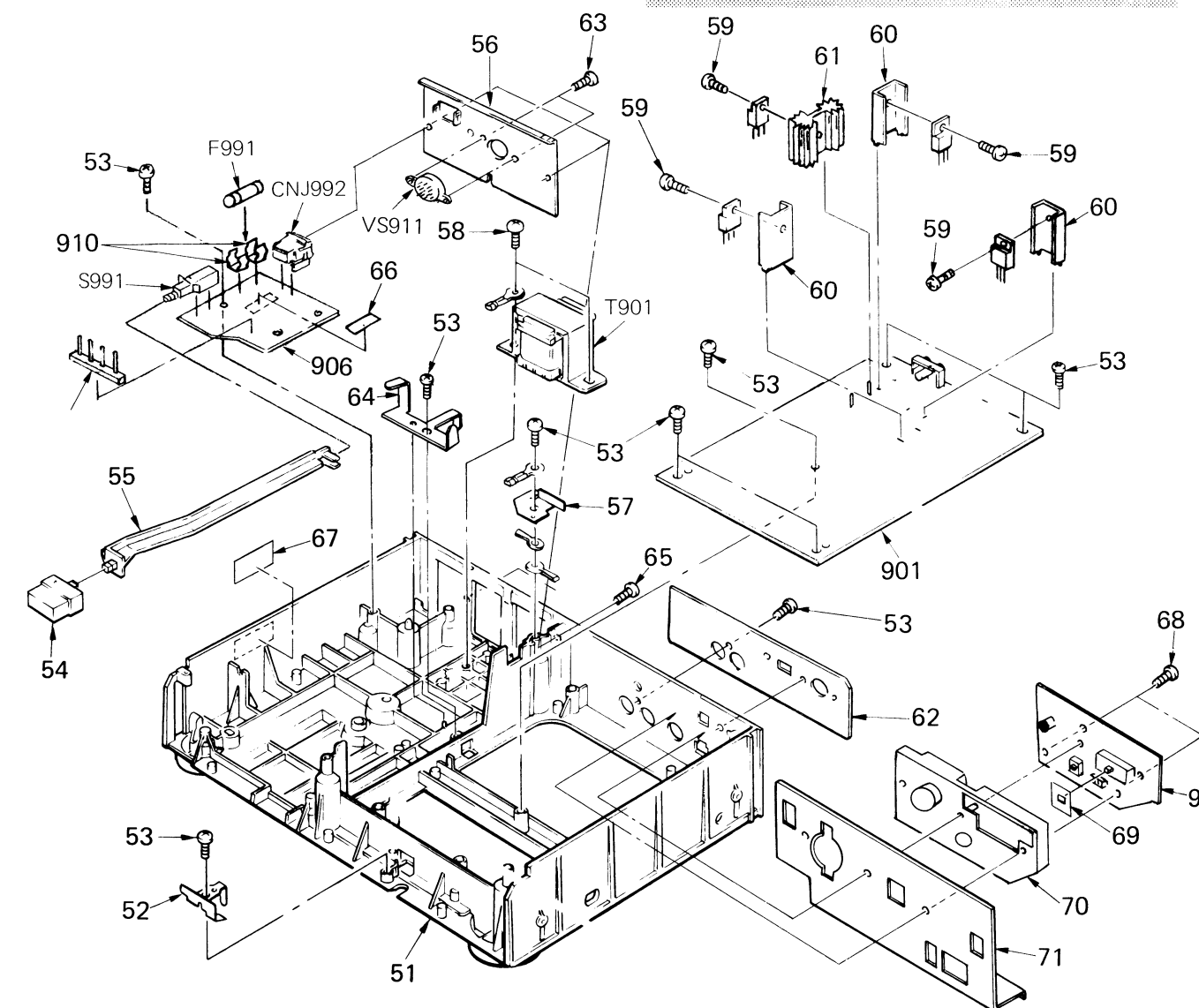
Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1).



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S		11	4-912-933-01	ESCUTCHEON, LOADING PANEL	
2	3-703-710-41	STICKER, SONY SYMBOL (12)		12	*4-913-955-01	DUMPER (D)	
3	4-912-961-01	PANEL, LOADING		13	*4-917-634-01	DAMPER (C)	
4	3-703-135-31	SCREW, TAPPING		14	1-463-817-11	REMOTE COMMANDER (RM-D350A)	
5	4-912-939-01	CASE		15	4-917-494-01	LID, BATTERY CASE	
6	3-703-473-11	SCREW, TERMINAL		16	*4-885-838-00	(222)...LABEL, CLASS 1	
7	*4-912-931-01	COVER, POWER		17	*3-701-030-00	LABEL, SERIAL NUMBER	
8	*4-912-910-01	LABEL (ENGLISH), CAUTION		18	3-703-680-00	(505:US,910)...LABEL, CAUTION SUB, NEW UL	
9	4-912-919-01	FOOT		19	3-703-079-21	(UK)...LABEL, CAUTION (BACK)	
10	*4-912-912-21	PLATE, BOTTOM					

(2).



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	4-912-938-01	CHASSIS		67	4-885-843-02	(222)...LABEL, CAUTION, LASER	
52	*4-912-925-01	PLATE (C), GROUND		68	7-685-534-11	SCREW +BTP 2.6X8 TYPE2 N-S	
53	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		69	*4-912-946-01	(EXCEPT 910)...COVER, SWITCH	
54	4-917-460-01	KNOB, POWER		70	*4-912-940-01	(EXCEPT 910)...ESCUTCHEON, D/O	
55	*4-911-063-01	LEVER, POWER SWITCH		71	*4-912-964-01	(EXCEPT 910)...PLATE, SHIELD	
56	*4-912-913-11	(910)...PLATE, JACK		901	*A-4651-130-A	(505)...MOUNTED PCB, MAIN	
	*4-912-913-21	(505:US)...PLATE, JACK			*A-4651-131-A	(910)...MOUNTED PCB, MAIN	
	*4-912-913-31	(Canadian)...PLATE, JACK			*A-4651-132-A	(222)...MOUNTED PCB, MAIN	
	*4-912-913-41	(UK)...PLATE, JACK		902	*1-535-137-00	BASE POST 14MM (10MM PITCH)	
	*4-912-913-51	(AEP)...PLATE, JACK		906	*1-622-278-11	PC BOARD, POWER SW	
	*4-912-913-61	(E)...PLATE, JACK		909	*1-622-279-11	(EXCEPT 910)...PC BOARD, D/O	
57	*4-912-924-01	PLATE (B), GROUND		910	1-533-183-11	(222)...HOLDER, FUSE	
58	7-685-660-11	SCREW +BVTP 4X10 TYPE2 N-S					
59	2-259-121-00	SCREW, TR					
60	*4-902-345-01	HEAT SINK					
61	*4-908-502-01	HEAT SINK					
62	*4-912-930-01	(EXCEPT 910)...PLATE, ORNAMENTAL, JACK					
	4-912-930-51	(910)...PLATE, ORNAMENTAL, JACK					
63	7-682-547-09	(E)...SCREW +B 3X6					
64	*4-912-923-01	PLATE (A), GROUND					
65	7-685-872-09	SCREW +BVTP 3X8 (S)					
66	*3-701-948-14	(222)...LABEL, FUSE					

F991 **A** 1-532-078-00 (222)...FUSE, TIME-LAG (1A)

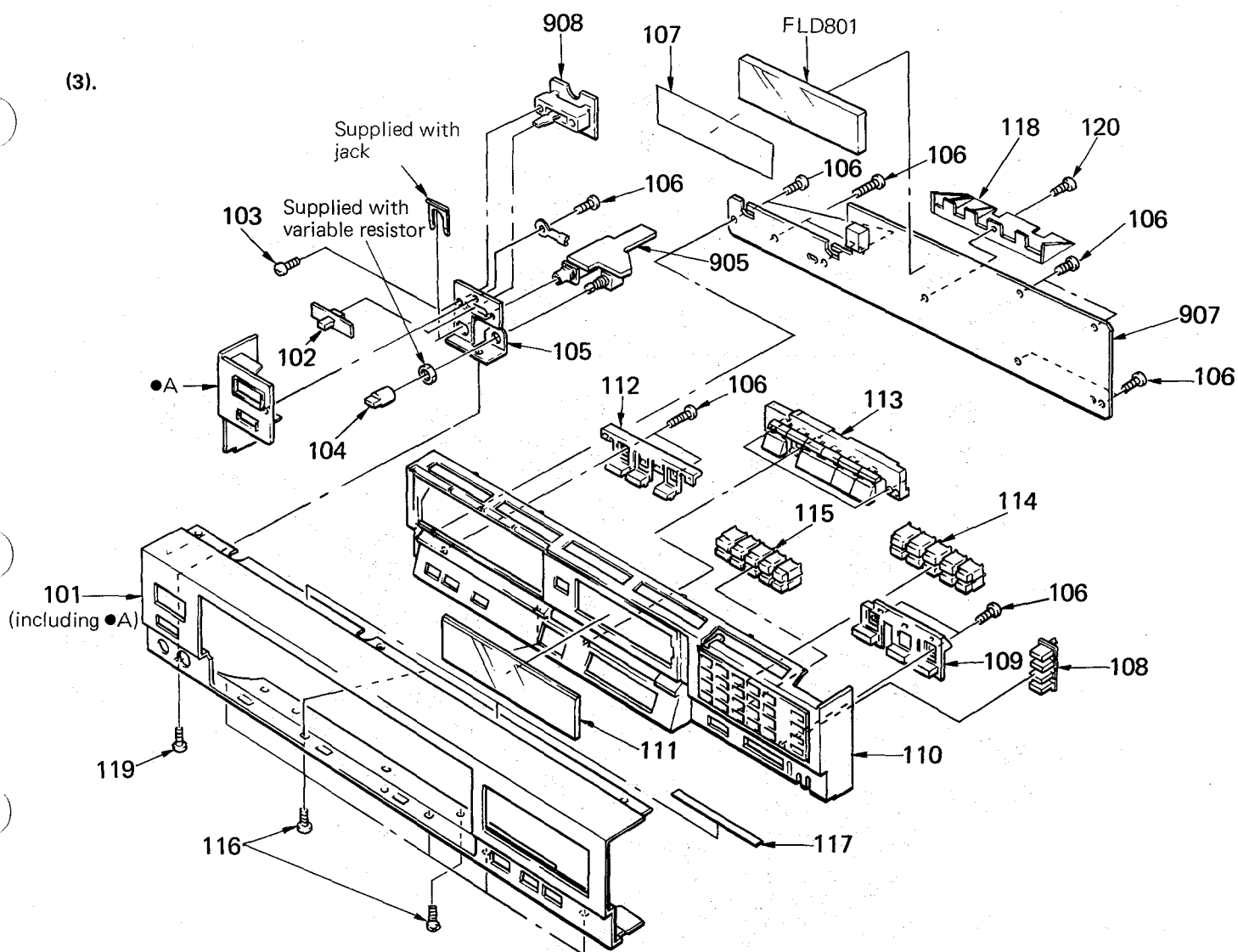
T901 **A** 1-448-715-11 (505,910)...TRANSFORMER, POWER

T901 **A** 1-448-717-11 (E)...TRANSFORMER, POWER

T901 **A** 1-448-718-11 (AEP,UK)...TRANSFORMER, POWER

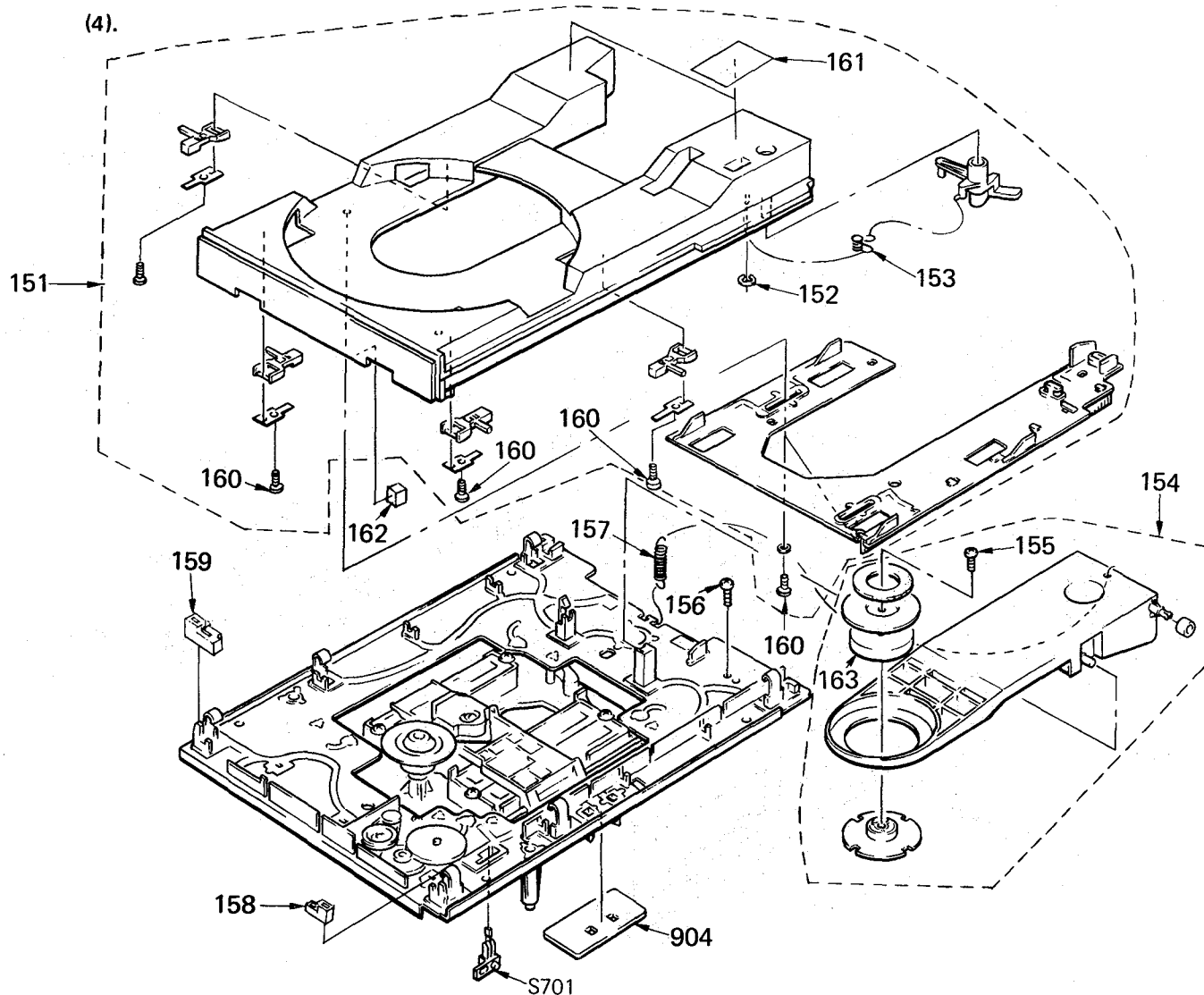
VS991 **A** 1-526-576-41 (E)...SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR)

(3).



No.	Part No.	Description	Remarks
101	X-4910-456-1	PANEL ASSY, FRONT	
102	3-575-515-41	KNOB, SLIDE SWITCH	
103	7-621-259-25	SCREW +P 2.6X4	
104	4-901-708-11	KNOB, LOV	
105	*4-912-922-01	BRACKET, HEADPHONE	
106	7-685-534-11	SCREW +BTP 2.6X8 TYPE2 N-S	
107	*4-912-926-01	PLATE (B), INDICATION	
108	4-912-921-01	BUTTON, 4 GANG	
109	4-912-916-01	BUTTON (C), CONTROL	
110	4-912-937-01	(910).....PANEL, SUB	
	4-912-937-11	(EXCEPT 910)...PANEL, SUB	

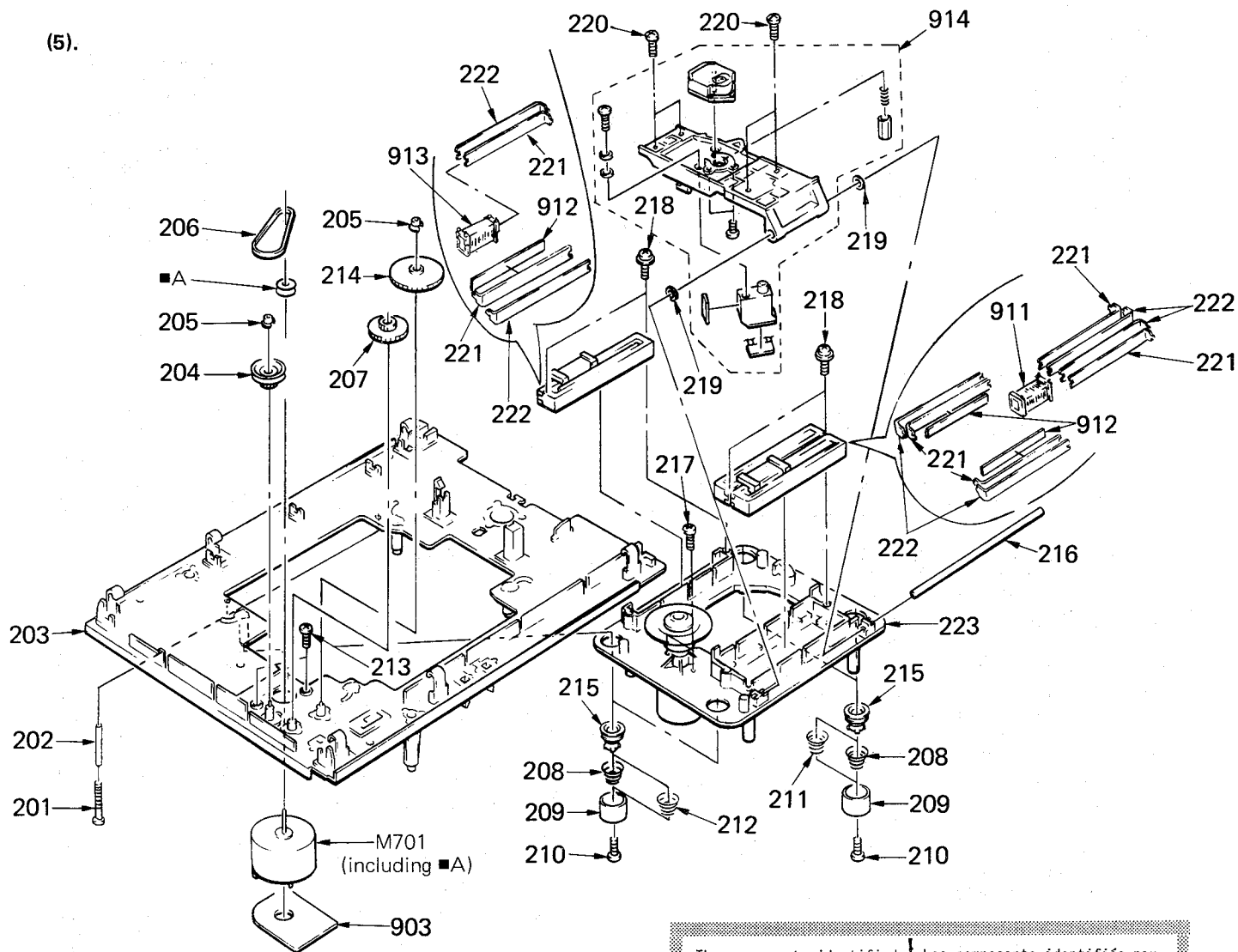
No.	Part No.	Description	Remarks
111	4-912-917-01	PLATE, INDICATION	
112	4-912-915-01	BUTTON (B), CONTROL	
113	X-4910-450-1	BUTTON ASSY, CONTROL	
114	4-912-934-01	BUTTON, 10 GANG	
115	4-912-934-11	BUTTON, 10 GANG	
116	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
117	*4-912-958-01	CUSHION, PANEL	
118	*4-912-935-01	STAY, PANEL	
119	7-682-147-09	SCREW +BVTT 3X6 (S)	
120	7-685-535-11	SCREW +BTP 2.6X10 TYPE2 N-S	
905	*1-620-674-11	PC BOARD, HEADPHONE	
907	*1-620-676-11	PC BOARD, DISPLAY	
908	*1-620-677-11	PC BOARD, TIMER SW	
FLD801	1-519-411-11	INDICATOR TUBE, FLUORESCENT	



No.	Part No.	Description	Remarks
151	A-4665-013-A	TABLE ASSY, DISK	
152	7-624-190-81	STOP RING 2, TYPE-CS	
153	4-917-552-01	SPRING	
154	A-4681-006-B	ARM ASSY, CHUCKING	
155	7-685-790-04	(FORMER)...SCREW +PTT 2.6X4 (S)	
156	7-621-259-55	SCREW +BVTT 2.6X8 (S)	
157	4-917-551-01	SPRING (ARM), TENSION	
158	*4-918-613-01	CUSHION (RIGHT)	

No.	Part No.	Description	Remarks
159	*4-918-612-01	CUSHION (LEFT)	
160	7-685-103-19	SCREW (2X5), + PWTP	
161	*4-913-955-01	DUMPER (D)	
162	*4-918-611-01	CUSHION	
163	1-452-340-11	MAGNET	
904	*1-620-668-11	PC BOARD, TRANSLATION	
S701	1-570-203-11	SWITCH, LEAF (LOADING)	

(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	Remarks
201	7-685-877-01	SCREW +BVTT 3X20 (S)	
202	*4-917-588-01	COLLAR	
203	4-917-561-21	CHASSIS (OUTSERT), LOADING	
204	4-917-546-01	PULLEY (A), LOADING	
205	4-910-418-01	BUSHING (DIA. 4)	
206	4-917-548-01	BELT, DRIVING	
207	4-910-402-01	GEAR (2), LOADING	
208	4-917-572-01	SPRING (B)	
209	4-917-508-01	HOLDER, SP	
210	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S	
211	4-917-571-01	SPRING (A)	
212	4-917-573-01	SPRING (E)	
213	7-621-775-40	SCREW +B 2.6X8	
214	4-917-550-01	GEAR (A), LOADING	
215	*4-917-584-11	INSULATOR	

No.	Part No.	Description	Remarks
216	*4-917-579-01	SHAFT, GUIDE	
217	7-621-255-10	SCREW +B 2X3	
218	*4-917-583-01	BRACKET, YOKE	
219	*4-917-582-01	CUSHION, SLIDE	
220	3-318-203-61	SCREW (B1.7X4), TAPPING	
221	*4-917-580-01	YOKE (A)	
222	*4-917-581-01	YOKE (B)	
223	X-4910-455-2	MOTOR ASSY	
903	*1-620-667-11	PC BOARD, LOADING MOTOR	
911	1-422-301-11	COIL (DRIVING)	
912	*1-452-411-11	MAGNET, LINEAR	
913	1-422-302-11	COIL (DETECTION)	
914	*8-848-064-01	PICKUP, OPTICS KSS-151A	
M701	A-4608-320-B	MOTOR ASSY, LOADING	

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  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.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*A-4651-130-A	(222)...MOUNTED PCB, MAIN
	*A-4651-131-A	(910)...MOUNTED PCB, MAIN
	*A-4651-132-A	(505)...MOUNTED PCB, MAIN
902	*1-535-137-00	BASE POST 14MM (10MM PITCH)
903	*1-620-667-11	PC BOARD, LOADING MOTOR
904	*1-620-668-11	PC BOARD, TRANSLATION
905	*1-620-674-11	PC BOARD, HEADPHONE
906	*1-622-278-11	PC BOARD, POWER SW
907	*1-620-676-11	PC BOARD, DISPLAY
908	*1-620-677-11	PC BOARD, TIMER SW
909	*1-622-279-11	(EXCEPT 910)...PC BOARD, D/O
910	1-533-183-11	(222)....HOLDER, FUSE
911	1-422-301-11	COIL (DRIVING)
912	*1-452-411-11	MAGNET, LINEAR
913	1-422-302-11	COIL (DETECTION)
914	★ 8-848-064-01	PICKUP, OPTICS KSS-151A
C101	1-126-008-11	ELECT 47MF 20% 16V
C102	1-126-008-11	ELECT 47MF 20% 16V
C103	1-162-198-31	CERAMIC 8.2PF 10% 50V
C104	1-130-475-00	MYLAR 0.0022MF 5% 50V
C105	1-130-489-00	MYLAR 0.033MF 5% 50V
C106	1-130-489-00	MYLAR 0.033MF 5% 50V
C107	1-130-483-00	MYLAR 0.01MF 5% 50V
C108	1-126-008-11	ELECT 47MF 20% 16V
C109	1-126-008-11	ELECT 47MF 20% 16V
C110	1-130-483-00	MYLAR 0.01MF 5% 50V
C111	1-126-043-11	ELECT 0.47MF 20% 50V
C112	1-162-199-31	CERAMIC 10PF 5% 50V
C113	1-162-199-31	CERAMIC 10PF 5% 50V
C114	1-162-294-31	CERAMIC 0.001MF 10% 50V
C115	1-162-294-31	CERAMIC 0.001MF 10% 50V
C201	1-130-768-00	FILM 0.1MF 10% 63V
C202	1-130-489-00	MYLAR 0.033MF 5% 50V
C203	1-131-368-00	TANTALUM 3.3MF 10% 16V
C204	1-130-768-00	FILM 0.1MF 10% 63V
C205	1-126-008-11	ELECT 47MF 20% 16V
C206	1-124-905-11	ELECT 3.3MF 20% 50V
C207	1-124-908-11	ELECT 22MF 20% 25V
C210	1-130-485-00	MYLAR 0.015MF 5% 50V
C211	1-130-491-00	MYLAR 0.047MF 5% 50V
C212	1-126-008-11	ELECT 47MF 20% 16V
C213	1-126-044-11	ELECT 1MF 20% 50V
C214	1-124-045-00	ELECT 4.7MF 20% 50V
C215	1-130-479-00	MYLAR 0.0047MF 5% 50V
C216	1-126-008-11	ELECT 47MF 20% 16V
C217	1-162-294-31	CERAMIC 0.001MF 10% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C218	1-126-043-11	ELECT 0.47MF 20% 50V
C219	1-130-475-00	MYLAR 0.0022MF 5% 50V
C220	1-130-475-00	MYLAR 0.0022MF 5% 50V
C221	1-126-008-11	ELECT 47MF 20% 16V
C224	1-124-908-11	ELECT 22MF 20% 25V
C225	1-126-009-11	ELECT 100MF 20% 16V
C226	1-126-009-11	ELECT 100MF 20% 16V
C227	1-126-008-11	ELECT 47MF 20% 16V
C228	1-126-008-11	ELECT 47MF 20% 16V
C229	1-130-489-00	MYLAR 0.033MF 5% 50V
C230	1-161-063-00	CERAMIC 0.1MF 20% 16V
C231	1-126-008-11	ELECT 47MF 20% 16V
C232	1-162-282-31	CERAMIC 100PF 10% 50V
C261	1-136-173-00	FILM 0.47MF 5% 50V
C262	1-136-173-00	FILM 0.47MF 5% 50V
C263	1-126-008-11	ELECT 47MF 20% 16V
C264	1-126-008-11	ELECT 47MF 20% 16V
C301	1-126-008-11	ELECT 47MF 20% 16V
C302	1-126-008-11	ELECT 47MF 20% 16V
C303	1-162-203-31	CERAMIC 15PF 5% 50V
C304	1-162-203-31	CERAMIC 15PF 5% 50V
C305	1-126-008-11	ELECT 47MF 20% 16V
C306	1-126-008-11	ELECT 47MF 20% 16V
C307	1-126-008-11	ELECT 47MF 20% 16V
C309	1-161-063-00	CERAMIC 0.1MF 20% 16V
C311	1-161-494-00	CERAMIC 0.022MF 25V
C312	1-161-063-00	CERAMIC 0.1MF 20% 16V
C351	1-161-063-00	(EXCEPT 910)..CERAMIC 0.1MF 20% 16V
C352	1-161-063-00	(EXCEPT 910)..CERAMIC 0.1MF 20% 16V
C353	1-130-768-00	(EXCEPT 910)..FILM 0.1MF 10% 63V
C354	1-162-179-11	(EXCEPT 910)..CERAMIC 0.1MF 50V
C355	1-162-179-11	(EXCEPT 910)..CERAMIC 0.1MF 50V
C356	1-162-179-11	(EXCEPT 910)..CERAMIC 0.1MF 50V
C357	1-162-282-31	(EXCEPT 910)..CERAMIC 100PF 10% 50V
C401	1-136-253-11	FILM 0.0018MF 3% 100V
C402	1-130-970-51	FILM 0.013MF 3% 100V
C403	1-136-232-11	FILM 0.0043MF 3% 100V
C404	1-136-254-11	FILM 0.002MF 3% 100V
C405	1-136-227-11	FILM 0.0011MF 3% 100V
C406	1-126-049-11	ELECT 22MF 20% 50V
C407	1-130-768-00	FILM 0.1MF 10% 63V
C408	1-130-768-00	FILM 0.1MF 10% 63V
C409	1-130-768-00	FILM 0.1MF 10% 63V
C410	1-130-768-00	FILM 0.1MF 10% 63V
C411	1-130-768-00	FILM 0.1MF 10% 63V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C412	1-130-768-00	FILM	0.1MF	10%	63V
C413	1-130-768-00	FILM	0.1MF	10%	63V
C414	1-162-291-31	CERAMIC	560PF	10%	50V
C415	1-162-291-31	CERAMIC	560PF	10%	50V
C416	1-126-024-11	ELECT	220MF	20%	25V
C417	1-126-024-11	ELECT	220MF	20%	25V
C420	1-162-290-31	CERAMIC	470PF	10%	50V
C423	1-161-063-00	CERAMIC	0.1MF	20%	16V
C424	1-161-063-00	CERAMIC	0.1MF	20%	16V
C425	1-161-063-00	CERAMIC	0.1MF	20%	16V
C426	1-161-063-00	CERAMIC	0.1MF	20%	16V
C451	1-123-821-00	ELECT	47MF	20%	16V
C452	1-161-063-00	CERAMIC	0.1MF	20%	16V
C453	1-162-290-31	(222)...CERAMIC	470PF	10%	50V
C501	1-136-253-11	FILM	0.0018MF	3%	100V
C502	1-130-970-51	FILM	0.013MF	3%	100V
C503	1-136-232-11	FILM	0.0043MF	3%	100V
C504	1-136-254-11	FILM	0.002MF	3%	100V
C505	1-136-227-11	FILM	0.0011MF	3%	100V
C506	1-126-049-11	ELECT	22MF	20%	50V
C507	1-130-768-00	FILM	0.1MF	10%	63V
C508	1-130-768-00	FILM	0.1MF	10%	63V
C509	1-130-768-00	FILM	0.1MF	10%	63V
C510	1-130-768-00	FILM	0.1MF	10%	63V
C511	1-130-768-00	(910,505)...CAP,METALIZED FILM	0.1MF		
C512	1-130-768-00	FILM	0.1MF	10%	63V
C513	1-130-768-00	FILM	0.1MF	10%	63V
C551	1-123-821-00	ELECT	47MF	20%	16V
C553	1-162-290-31	(222)...CERAMIC	470PF	10%	50V
C701	1-126-008-11	ELECT	47MF	20%	16V
C705	1-126-008-11	ELECT	47MF	20%	16V
C706	1-126-008-11	ELECT	47MF	20%	16V
C707	1-130-768-00	FILM	0.1MF	10%	63V
C708	1-162-294-31	CERAMIC	0.001MF	10%	50V
C709	1-162-294-31	CERAMIC	0.001MF	10%	50V
C710	1-130-776-00	FILM	0.47MF	5%	63V
C801	1-162-207-31	CERAMIC	22PF	5%	50V
C802	1-162-207-31	CERAMIC	22PF	5%	50V
C803	1-124-225-00	ELECT	100MF	20%	6.3V
C804	1-162-179-11	CERAMIC	0.1MF		50V
C901	1-126-017-11	ELECT	6800MF	20%	16V
C902	1-126-017-11	ELECT	6800MF	20%	16V
C903	1-124-762-00	ELECT	4700MF	20%	10V
C904	1-124-762-00	ELECT	4700MF	20%	10V
C905	1-126-048-11	ELECT	10MF	20%	50V
C906	1-126-048-11	ELECT	10MF	20%	50V
C907	1-126-012-11	ELECT	470MF	20%	16V
C908	1-124-636-00	ELECT	3300MF	20%	25V
C909	1-124-636-00	ELECT	3300MF	20%	25V
C910	1-123-377-00	ELECT	470MF	20%	63V
C911	1-123-377-00	ELECT	470MF	20%	63V
C912	1-126-052-11	ELECT	100MF	20%	50V
C913	1-214-725-00	ELECT	100MF	20%	50V
C914	1-124-912-11	ELECT	330MF	20%	50V
C915	1-130-789-00	FILM	1MF	10%	100V
C916	1-126-064-11	ELECT	220MF	20%	63V
C917	1-124-912-11	ELECT	330MF	20%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C918	1-161-063-00	CERAMIC	0.1MF	20%	16V
C919	1-161-063-00	CERAMIC	0.1MF	20%	16V
C920	1-124-702-11	ELECT	1000MF	20%	25V
C991	1-161-744-00	CERAMIC	0.01MF		400V
C992	1-161-742-00	(505,910)...CAP,CERAMIC	0.0022MF		
C993	1-161-742-00	(AEP,UK)...CERAMIC	0.0022MF	20%	400V
C994	1-161-742-00	(AEP,UK)...CERAMIC	0.0022MF	20%	400V
C995	1-161-742-00	(AEP,UK)...CERAMIC	0.0022MF	20%	400V
C996	1-161-742-00	(AEP,UK)...CERAMIC	0.0022MF	20%	400V
CN101	*1-564-720-11	PIN, CONNECTOR (SMALL TYPE)	4P		
CN102	*1-564-724-31	PIN, CONNECTOR (SMALL TYPE)	8P		
CN201	*1-564-724-11	PIN, CONNECTOR (SMALL TYPE)	8P		
CNJ355	1-507-567-71	JACK, PIN 1P (DIGITAL OUT)			
CNJ401	1-562-999-21	(910).....JACK, PIN 2P (LINE OUT)			
CNJ401	1-563-560-11	(EXCEPT 910)...JACK, PIN 2P (LINE OUT)			
CNJ451	*1-564-509-11	PLUG, CONNECTOR	6P		
CNJ992	1-526-929-11	(E).....INLET, AC (AC IN)			
CNJ992	1-526-930-11	(505,910)...INLET, AC (AC IN)			
CNJ992	1-526-931-11	(AEP,UK)...INLET, AC (AC IN)			
CNP4	*1-562-883-11	SOCKET, CONNECTOR	20P		
CNP5	*1-564-718-11	PIN, CONNECTOR (SMALL TYPE)	2P		
CNP6	*1-564-719-11	PIN, CONNECTOR (SMALL TYPE)	3P		
CNP7	*1-564-522-31	PLUG, CONNECTOR	7P		
CNP101	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE)	4P		
CNP102	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE)	8P		
CNP201	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE)	8P		
CNP202	*1-564-507-11	PLUG, CONNECTOR	4P		
CNP304	*1-564-506-11	PLUG, CONNECTOR	3P		
CNP305	*1-564-508-11	(EXCEPT 910)...PLUG, CONNECTOR	5P		
CNP356	*1-564-520-11	(EXCEPT 910)...PLUG, CONNECTOR	5P		
CNP402	*1-564-506-11	PLUG, CONNECTOR	3P		
CNP403	*1-564-506-11	PLUG, CONNECTOR	3P		
CNP801	*1-564-340-00	PIN, CONNECTOR	6P		
CNP802	*1-564-342-11	PIN, CONNECTOR	8P		
CNP803	*1-564-496-11	PIN, CONNECTOR	3P		
CP451	1-233-080-11	COMPOSITION CIRCUIT BLOCK			
CP551	1-233-080-11	COMPOSITION CIRCUIT BLOCK			
CP801	1-233-081-11	COMPOSITION CIRCUIT BLOCK			
CP802	1-232-995-11	COMPOSITION CIRCUIT BLOCK			
D101	8-719-107-94	DIODE 1SS202-1			
D301	8-719-107-94	DIODE 1SS202-1			
D901	8-719-937-50	DIODE DF02M			
D902	8-719-937-49	DIODE RDF02M			
D903	8-719-107-94	DIODE 1SS202-1			
D904	8-719-107-94	DIODE 1SS202-1			
D905	8-719-107-94	DIODE 1SS202-1			
D906	8-719-107-94	DIODE 1SS202-1			
D907	8-719-107-94	DIODE 1SS202-1			
D908	8-719-908-03	DIODE GP08D			
D909	8-719-908-03	DIODE GP08D			
D910	8-719-934-26	DIODE HZS33-2L			
D911	8-719-933-57	DIODE HZS9B2L			
D912	8-719-928-82	DIODE HZS4.3NB3			
D913	8-719-908-03	DIODE GP08D			
D914	8-719-908-03	DIODE GP08D			

F991 A.1-532-078-00 (222)...FUSE, TIME-LAG (1A)

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.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
FLD801	1-519-411-11	INDICATOR TUBE, FLUORESCENT
IC101	8-752-030-93	IC CXA1081M
IC201	8-752-031-65	IC CXA1082AQ
IC202	8-759-303-90	IC STA341M
IC204	8-759-600-02	IC M5218L
IC210	8-759-009-07	IC MC14053BF
IC301	8-752-322-04	IC CXD1125Q
IC302	8-759-802-74	IC LC3516AML-15
IC303	8-759-939-35	IC CXD1088Q
IC304	8-759-939-94	IC TDA1541-N5
IC305	8-759-804-47	IC LC6523H-3270
IC306	8-759-202-12	IC TC74HC02P
IC357	8-759-202-13	(EXCEPT 910)...IC TC74HCU04P
IC401	8-759-900-72	IC NE5532P
IC451	8-759-700-40	IC NJM4560S
IC501	8-759-900-72	IC NE5532P
IC701	8-759-940-64	IC MSM6404A-181RS
IC703	8-759-803-42	IC LA6500-FA
IC801	8-752-802-24	IC CXP5016H-206S
IC802	8-741-138-70	IC 8X-1387
IC901	8-759-604-29	IC 5F7805
IC902	8-759-604-47	IC 5F7905
IC903	8-759-604-34	IC 5F7815
IC904	8-759-604-46	IC 5F79M15
IC905	8-759-604-29	IC 5F7805
IC906	8-759-604-47	IC 5F7905
IC907	8-759-604-29	IC 5F7805
J451	1-563-727-11	JACK, LARGE TYPE (HEADPHONES)
L351	1-421-946-11	(EXCEPT 910)...TRANSFORMER, PULSE
L991	1-421-960-11	TRANSFORMER, LINE FILTER
M701	A-4608-320-B	MOTOR ASSY, LOADING
PS201A	1-532-605-00	(222)...LINK, IC
PS202A	1-532-605-00	(222)...LINK, IC
PS203A	1-532-605-00	(222)...LINK, IC
PS204A	1-532-605-00	(222)...LINK, IC
PS205A	1-532-605-00	(222)...LINK, IC
PS701A	1-532-605-00	(222)...LINK, IC
PS901A	1-532-675-00	(222)...LINK, IC
PS902A	1-532-675-00	(222)...LINK, IC
PS903A	1-532-637-00	(222)...LINK, IC
PS904A	1-532-637-00	(222)...LINK, IC
PS905A	1-532-637-00	(222)...LINK, IC
PS906A	1-532-637-00	(222)...LINK, IC
Q101	8-729-103-43	TRANSISTOR 2SB734
Q201	8-729-177-43	TRANSISTOR 2SD774
Q202	8-729-103-43	TRANSISTOR 2SB734
Q203	8-729-900-80	TRANSISTOR DTC144ES
Q204	8-729-900-80	TRANSISTOR DTC114ES
Q301	8-729-600-27	TRANSISTOR 2SC634SP
Q401	8-729-107-99	TRANSISTOR 2SC3622A-K
Q402	8-729-107-99	TRANSISTOR 2SC3622A-K
Q501	8-729-107-99	TRANSISTOR 2SC3622A-K
Q502	8-729-107-99	TRANSISTOR 2SC3622A-K
Q703	8-729-900-61	TRANSISTOR DTA114ES
Q704	8-729-900-61	TRANSISTOR DTA114ES

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q705	8-729-900-61	TRANSISTOR DTC114ES
Q901	8-729-205-95	TRANSISTOR 2SA1428Y
R101	1-215-396-00	CARBON 91 5% 1/6W
R102	1-214-092-00	METAL 22 1% 1/4W
R103	1-249-417-11	CARBON 1K 5% 1/6W
R104	1-215-450-00	CARBON 16K 5% 1/6W
R105	1-249-428-11	CARBON 8.2K 5% 1/6W
R106	1-249-428-11	CARBON 8.2K 5% 1/6W
R107	1-249-432-11	CARBON 18K 5% 1/6W
R108	1-249-432-11	CARBON 18K 5% 1/6W
R109	1-249-441-11	CARBON 100K 5% 1/6W
R110	1-249-429-11	CARBON 10K 5% 1/6W
R111	1-249-417-11	CARBON 1K 5% 1/6W
R112	1-249-421-11	CARBON 2.2K 5% 1/6W
R201	1-249-441-11	CARBON 100K 5% 1/6W
R202	1-249-440-11	CARBON 82K 5% 1/6W
R205	1-249-431-11	CARBON 15K 5% 1/6W
R206	1-249-429-11	CARBON 10K 5% 1/6W
R207	1-249-435-11	CARBON 33K 5% 1/6W
R208	1-249-435-11	CARBON 33K 5% 1/6W
R209	1-249-429-11	CARBON 10K 5% 1/6W
R211	1-249-409-11	CARBON 220 5% 1/6W
R212	1-249-423-11	CARBON 3.3K 5% 1/6W
R213	1-215-489-00	CARBON 680K 5% 1/6W
R214	1-249-441-11	CARBON 100K 5% 1/6W
R215	1-215-486-00	CARBON 510K 5% 1/6W
R216	1-249-429-11	CARBON 10K 5% 1/6W
R217	1-249-433-11	CARBON 22K 5% 1/6W
R218	1-249-429-11	CARBON 10K 5% 1/6W
R219	1-215-471-00	METAL 120K 1% 1/6W
R220	1-215-434-00	METAL 3.6K 1% 1/6W
R221	1-215-493-00	CARBON 1M 5% 1/6W
R222	1-249-433-11	CARBON 22K 5% 1/6W
R223	1-249-441-11	CARBON 100K 5% 1/6W
R224	1-249-437-11	CARBON 47K 5% 1/6W
R225	1-249-437-11	CARBON 47K 5% 1/6W
R226	1-215-473-00	CARBON 150K 5% 1/6W
R227	1-215-445-00	METAL 10K 1% 1/6W
R228	1-215-445-00	METAL 10K 1% 1/6W
R229	1-215-486-00	CARBON 510K 5% 1/6W
R230	1-249-429-11	CARBON 10K 5% 1/6W
R231	1-249-421-11	CARBON 2.2K 5% 1/6W
R232	1-249-421-11	CARBON 2.2K 5% 1/6W
R251	1-215-469-00	METAL 100K 1% 1/6W
R252	1-215-469-00	METAL 100K 1% 1/6W
R261	1-215-485-00	CARBON 470K 5% 1/6W
R262	1-215-485-00	CARBON 470K 5% 1/6W
R301	1-249-441-11	CARBON 100K 5% 1/6W
R302	1-249-441-11	CARBON 100K 5% 1/6W
R303	1-249-411-11	CARBON 330 5% 1/6W
R304	1-249-411-11	CARBON 330 5% 1/6W
R305	1-249-429-11	CARBON 10K 5% 1/6W
R310	1-249-441-11	CARBON 100K 5% 1/6W
R312	1-249-417-11	CARBON 1K 5% 1/6W
R313	1-249-425-11	CARBON 4.7K 5% 1/6W
R314	1-249-417-11	CARBON 1K 5% 1/6W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R316	1-249-411-11	CARBON	330	5%	1/6W
R317	1-249-411-11	CARBON	330	5%	1/6W
R318	1-249-411-11	CARBON	330	5%	1/6W
R319	1-249-411-11	CARBON	330	5%	1/6W
R320	1-249-411-11	CARBON	330	5%	1/6W
R321	1-249-413-11	CARBON	470	5%	1/6W
R322	1-249-417-11	CARBON	1K	5%	1/6W
R323	1-249-819-11	CARBON	330	5%	1/6W
R324	1-249-411-11	CARBON	330	5%	1/6W
R325	1-249-411-11	CARBON	330	5%	1/6W
R326	1-249-411-11	CARBON	330	5%	1/6W
R327	1-249-411-11	(EXCEPT 910)...CARBON	330	5%	1/6W
R328	1-249-411-11	(EXCEPT 910)...CARBON	330	5%	1/6W
R329	1-249-411-11	(EXCEPT 910)...CARBON	330	5%	1/6W
R330	1-249-411-11	CARBON	330	5%	1/6W
R331	1-249-411-11	CARBON	330	5%	1/6W
R357	1-215-394-00	(EXCEPT 910)...CARBON	75	5%	1/6W
R358	1-249-417-11	(EXCEPT 910)...CARBON	1K	5%	1/6W
R359	1-249-405-11	(EXCEPT 910)...CARBON	100	5%	1/6W
R401	1-249-930-11	CARBON	2K	1%	1/4W
R402	1-249-924-11	CARBON	1.1K	1%	1/4W
R403	1-246-545-00	CARBON	1M	1%	1/4W
R404	1-247-721-11	CARBON	4.7K	1%	1/4W
R405	1-247-717-11	CARBON	2.2K	1%	1/4W
R406	1-247-717-11	CARBON	2.2K	1%	1/4W
R407	1-249-983-11	CARBON	330K	1%	1/4W
R408	1-249-921-11	CARBON	820	1%	1/4W
R409	1-247-713-11	CARBON	1K	1%	1/4W
R410	1-249-921-11	CARBON	820	1%	1/4W
R411	1-249-469-11	CARBON	100K	1%	1/4W
R412	1-247-193-00	CARBON	22K	1%	1/4W
R413	1-247-700-11	CARBON	100	1%	1/4W
R414	1-247-700-11	CARBON	100	1%	1/4W
R415	1-249-469-11	CARBON	100K	1%	1/4W
R416	1-249-469-11	CARBON	100K	1%	1/4W
R452	1-247-713-11	CARBON	1K		1/4W
R455	1-247-700-11	CARBON	100		1/4W
R501	1-249-930-11	CARBON	2K	1%	1/4W
R502	1-249-924-11	CARBON	1.1K	1%	1/4W
R503	1-246-545-00	CARBON	1M	1%	1/4W
R504	1-247-721-11	CARBON	4.7K	1%	1/4W
R505	1-247-717-11	CARBON	2.2K	1%	1/4W
R506	1-247-717-11	CARBON	2.2K	1%	1/4W
R507	1-249-983-11	CARBON	330K	1%	1/4W
R508	1-249-921-11	CARBON	820	1%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R509	1-247-713-11	CARBON	1K	1%	1/4W
R510	1-249-921-11	CARBON	820	1%	1/4W
R512	1-247-193-00	CARBON	22K	1%	1/4W
R552	1-247-713-11	CARBON	1K		1/4W
R555	1-247-700-11	CARBON	100		1/4W
R703	1-249-440-11	CARBON	82K	5%	1/6W
R704	1-249-440-11	CARBON	82K	5%	1/6W
R705	1-215-468-00	CARBON	91K	5%	1/6W
R706	1-215-468-00	CARBON	91K	5%	1/6W
R707	1-249-385-11	CARBON	2.2	5%	1/6W
R801	1-249-429-11	CARBON	10K	5%	1/6W
R802	1-249-429-11	CARBON	10K	5%	1/6W
R803	1-249-429-11	CARBON	10K	5%	1/6W
R804	1-249-429-11	CARBON	10K	5%	1/6W
R805	1-249-429-11	CARBON	10K	5%	1/6W
R806	1-249-429-11	CARBON	10K	5%	1/6W
R807	1-249-429-11	CARBON	10K	5%	1/6W
R901	1-249-417-11	CARBON	1K	5%	1/6W
R902	1-249-441-11	CARBON	100K	5%	1/6W
R903	1-249-401-11	CARBON	47	5%	1/6W
R904	1-212-966-11	FUSIBLE	22	5%	1/2W F
R905	1-249-417-11	CARBON	1K	5%	1/6W
R906	1-249-421-11	CARBON	2.2K	5%	1/6W
R907	1-249-437-11	CARBON	47K	5%	1/6W
R908	1-215-481-00	CARBON	330K	5%	1/6W
R909	1-249-429-11	CARBON	10K	5%	1/6W
R910	1-212-966-11	FUSIBLE	22	5%	1/2W F
R911	1-212-966-11	FUSIBLE	22	5%	1/2W F
RV101	1-237-194-11	RES, ADJ, CARBON	20K		
RV102	1-237-192-11	RES, ADJ, CARBON	5K		
RV201	1-237-194-11	RES, ADJ, CARBON	20K		
RV202	1-237-194-11	RES, ADJ, CARBON	20K		
RV203	1-228-990-00	RES, ADJ, METAL GLAZE	1K		
RV204	1-228-993-00	RES, ADJ, METAL GLAZE	4.7K		
RV451	1-237-438-11	RES, VAR, CARBON	20K/20K		(HEADPHONES LEVEL)
S351	1-554-481-00	(EXCEPT 910)...SWITCH, SLIDE			(DIGITAL OUT)
S701	1-570-203-11	SWITCH, LEAF (LOADING)			
S801	1-554-303-21	SWITCH, KEY BOARD	(1)		
S802	1-554-303-21	SWITCH, KEY BOARD	(2)		
S803	1-554-303-21	SWITCH, KEY BOARD	(3)		
S804	1-554-303-21	SWITCH, KEY BOARD	(4)		
S805	1-554-303-21	SWITCH, KEY BOARD	(5)		
S806	1-554-303-21	SWITCH, KEY BOARD	(6)		

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
S807	1-554-303-21	SWITCH, KEY BOARD (7)
S808	1-554-303-21	SWITCH, KEY BOARD (8)
S809	1-554-303-21	SWITCH, KEY BOARD (9)
S810	1-554-303-21	SWITCH, KEY BOARD (10)
S811	1-554-303-21	SWITCH, KEY BOARD (11)
S812	1-554-303-21	SWITCH, KEY BOARD (12)
S813	1-554-303-21	SWITCH, KEY BOARD (13)
S814	1-554-303-21	SWITCH, KEY BOARD (14)
S815	1-554-303-21	SWITCH, KEY BOARD (15)
S816	1-554-303-21	SWITCH, KEY BOARD (16)
S817	1-554-303-21	SWITCH, KEY BOARD (17)
S818	1-554-303-21	SWITCH, KEY BOARD (18)
S819	1-554-303-21	SWITCH, KEY BOARD (19)
S820	1-554-303-21	SWITCH, KEY BOARD (20)
S821	1-554-303-21	SWITCH, KEY BOARD (+10)
S822	1-554-303-21	SWITCH, KEY BOARD (0)
S823	1-554-303-21	SWITCH, KEY BOARD (CHECK)
S824	1-554-303-21	SWITCH, KEY BOARD (CLEAR)
S825	1-554-303-21	SWITCH, KEY BOARD (AUTO SPACE)
S826	1-554-303-21	SWITCH, KEY BOARD (PROGRAM)
S827	1-554-303-21	SWITCH, KEY BOARD (SHUFFLE)
S828	1-554-303-21	SWITCH, KEY BOARD (▶)
S829	1-554-303-21	SWITCH, KEY BOARD (■)
S830	1-554-303-21	SWITCH, KEY BOARD (■)
S831	1-554-303-21	SWITCH, KEY BOARD (◀◀)
S832	1-554-303-21	SWITCH, KEY BOARD (▶▶)
S833	1-554-303-21	SWITCH, KEY BOARD (◀)
S834	1-554-303-21	SWITCH, KEY BOARD (—▶)
S835	1-554-303-21	SWITCH, KEY BOARD (◀◀)
S836	1-554-303-21	SWITCH, KEY BOARD (▶▶)
S837	1-554-303-21	SWITCH, KEY BOARD (REPEAT 1/ALL)
S838	1-554-303-21	SWITCH, KEY BOARD (CLEAR)
S839	1-554-303-21	SWITCH, KEY BOARD (TIME/NEXT(PGM))
S840	1-554-303-21	SWITCH, KEY BOARD (▲)
S841	1-570-873-11	SWITCH, SLIDE (TIMER)
S991	1-553-318-00	SWITCH, PUSH (AC POWER)(1 KEY)(POWER)
T901	▲ 1-448-715-11	(505,910)...TRANSFORMER, POWER
T901	▲ 1-448-717-11	(E).....TRANSFORMER, POWER
T901	▲ 1-448-718-11	(AEP,UK)....TRANSFORMER, POWER
TB901	*1-535-121-00	TERMINAL
X301	1-567-741-11	VIBRATOR, CRYSTAL (16MHz)
X302	1-567-686-11	OSCILLATOR, CERAMIC
X801	1-567-192-11	OSCILLATOR, CERAMIC
VS991	▲ 1-526-576-41	(E).....SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR)

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-526-565-00	(E)...AC PLUG ADAPTOR
1-558-787-11	(910).....CORD, CONNECTION
1-558-787-31	(EXCEPT 910)...CORD, CONNECTION
▲ 1-558-032-11	(UK).....CORD, POWER
▲ 1-558-833-11	(E).....CORD, POWER
▲ 1-558-834-11	(505,910)...CORD, POWER
▲ 1-558-835-11	(AEP).....CORD, POWER
3-536-825-00	BAG, PROTECTING
3-701-630-00	BAG, POLYETHYLENE
3-703-390-01	(505:US,910)...INSTRUCTION
3-795-629-11	(AEP).....INSTRUCTION
3-765-657-11	(222).....MANUAL, INSTRUCTION
3-765-657-21	(505).....MANUAL, INSTRUCTION
3-765-657-31	(Canadian)...MANUAL, INSTRUCTION
3-765-657-41	(AEP).....MANUAL, INSTRUCTION
3-765-925-21	(910).....MANUAL, INSTRUCTION
4-912-943-11	(AEP,UK).....INDIVIDUAL CARTON
4-912-943-21	(505:US).....INDIVIDUAL CARTON
4-912-943-31	(Canadian)...INDIVIDUAL CARTON
4-912-943-41	(E).....INDIVIDUAL CARTON
4-912-943-51	(910).....INDIVIDUAL CARTON
4-912-944-01	CUSHION
*4-912-947-01	(EXCEPT Canadian)...KEY, LOCK
4-913-941-01	HOLDER, COMMANDER
4-858-078-00	(EXCEPT E)...SHEET, PROTECTION
7-632-650-74	(EXCEPT E)...SHEET, PROTECTION 600MM

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Audio Group

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