

# CDP-557ESD / 707ESD

## SERVICE MANUAL

US Model

Canadian Model

CDP-707ESD

AEP Model

UK Model

E Model

CDP-557ESD



Photo: CDP-557ESD

### SPECIFICATIONS

#### Compact disc player

System	Compact disc digital audio system
Laser	Semiconductor laser ( $\lambda = 780 \text{ nm}$ )
Emission duration	Continuous
Laser output	less than $44.6 \mu\text{W}$ * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	CDP-557ESD: 2 Hz – 20 kHz $\pm 0.5 \text{ dB}$ CDP-707ESD: 2 Hz – 20 kHz $\pm 0.3 \text{ dB}$
Signal to noise ratio	More than 115 dB
Dynamic range	More than 100 dB
Harmonic distortion	Less than 0.0015%
Wow and flutter	Below measurable limit
Channel separation	More than 110 dB

#### Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms Output impedance 200 ohms
LINE OUT (VARIABLE) (phono jacks)	Output level max. 2 V (at 50 kilohms) Load impedance over 50 kilohms
	Output impedance 200 ohms – 5.1 kilohms
DIGITAL OUT (COAXIAL) (phono jacks)	Output level 0.5 Vp-p (at 75 ohms) Load impedance 75 ohms
DIGITAL OUT (OPTICAL) (optical output connector)	Wave length 660 nm Output level –18 dBm
HEADPHONES (stereo phone jack)	Output level max. 28 mW Load impedance 32 ohms

#### CAUTION

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

COMPACT DISC PLAYER  
**SONY**®



# CDP-557ESD/707ESD

## General

Power requirements	AEP Model: 220 V AC (or 240 V AC adjustable by Sony personnel), 50/60 Hz Model for the United Kingdom 240 V AC (or 220 V AC adjustable by Sony personnel), 50 Hz US, Canadian Model: (CDP-707ESD) 120 V AC, 60 Hz
Power consumption	22 W
Dimensions (approx.)	CDP-557ESD (UK Model)  430 x 125 x 375 mm (w/h/d) (17 x 5 x 14 5/8 inches) CDP-707ESD/ CDP-557ESD (AEP Model)  470 x 125 x 375 mm (w/h/d) (18 5/8 x 5 x 14 5/8 inches)  including projecting parts and controls
Weight (approx.)	CDP-557ESD (UK Model)  17 kg (37 lbs 8 oz) CDP-707ESD/ CDP-557ESD (AEP Model)  18 kg (39 lbs 11 oz)

## Supplied accessories

Audio signal connecting cord	1 (2 phono plugs—2 phono plugs)
Remote commander	1
Sony SUM-3 (NS) batteries	2
Screw driver	1

## SAFETY-RELATED COMPONENT WARNING!!

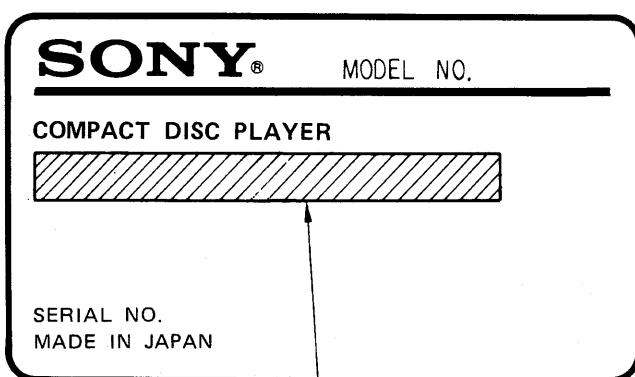
COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

## Remote commander

Remote control system	Infrared control
Power requirements	3V DC with two R6 (size AA) batteries
Dimensions	Approx. 62 x 20 x 168.5 mm (w/h/d) (2 1/2 x 13/16 x 6 3/4 inches)
Weight	Approx. 130 g (5 oz) including batteries

## MODEL IDENTIFICATION

— Specification Labels —



US, Canadian model: AC: 120 V ~ 60 Hz 22 W  
AEP, E model: AC: 220 V ~ 50/60 Hz 22 W  
UK model: AC: 240 V ~ 50/60 Hz 22 W

## Features

### Custom file function

- Disc memo function for writing a comment about a disc.
- Program bank function for storing a programmed playing order.
- Custom index function for assigning your own index point to any desired position on a disc.

### Program play

You can play up to 20 selections in the desired order. Pause can be also programmed. You can also confirm the total playing time while choosing the selection to be programmed.

### Variety of playing modes

Single play, program play, shuffle play and repeat play as well as normal continuous play of a whole disc.

### 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 the remaining programmed selection numbers. The display contains a music calendar indicating all the numbers of the selections on the disc (up to 20).

## 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.

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## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:  
 Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 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 2V AC range are suitable. (See Fig. A)

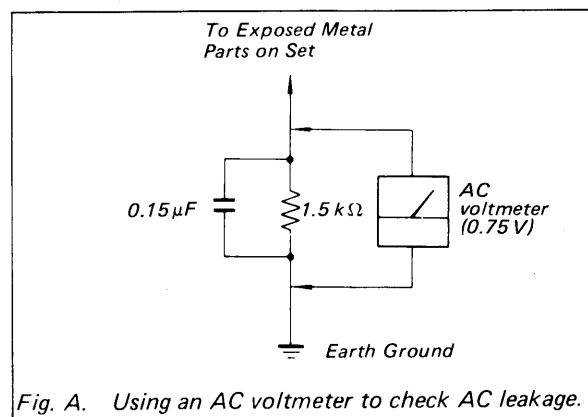


Fig. A. Using an AC voltmeter to check AC leakage.

## SERVICING NOTES

**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.

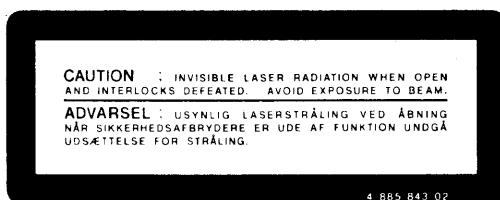
**ADVARSEL!!**

**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.**

**LASER ADVARSEL MÆRKNING**

Følgende mærkning findes indvendig i apparatet:

## 1. Advarsel Mærkning



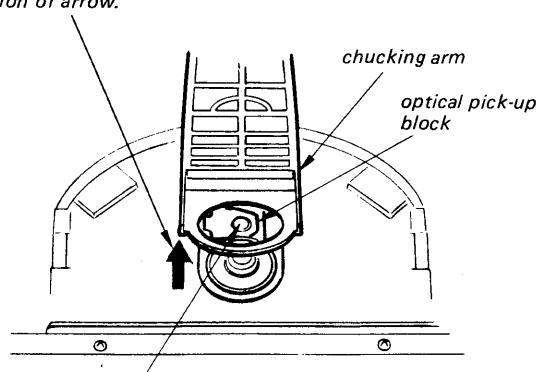
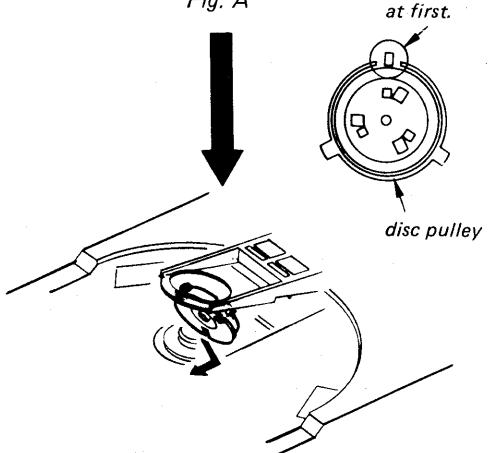
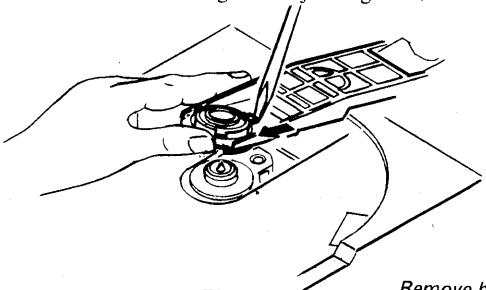
**VAROITUS:** Laite sisältää, laserdiodin, joka lähettilää (näkymätöntä) silmille vaarallista lasersateilyä.

**NOTES ON LASER DIODE EMISSION CHECK**

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25 cm away from the objective lens.

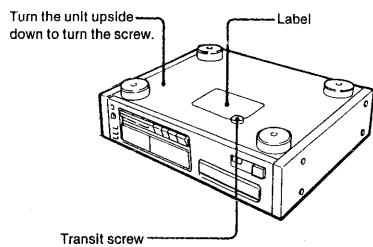
**LASER DIODE AND FOCUS SERCH OPERATION CHECK**

1. Remove disc pulley by lifting up chucking arm by hand. (Fig. A, B)
2. Make POWER switch on with no disc inserted and disc table closed.
3. Confirm that the operation indicated in Fig. C is performed while observing the objecting lens.



- ① Confirm that laser beam is spread.
- ② Up and down motion of the objective lens. (3 times)

Fig. C

**Note on the Transit Screw**

Before operating the CD player, be sure to turn the transit screw as described on the label on the bottom of the unit.

**1** Remove the cap of the screw.

**2** Turn the screw 180 degrees counterclockwise using the supplied screwdriver.

Do not turn the screw excessively, or the unit may be damaged.

When transporting the unit again, turn the transit screw in the reverse direction.

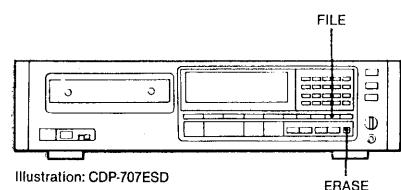
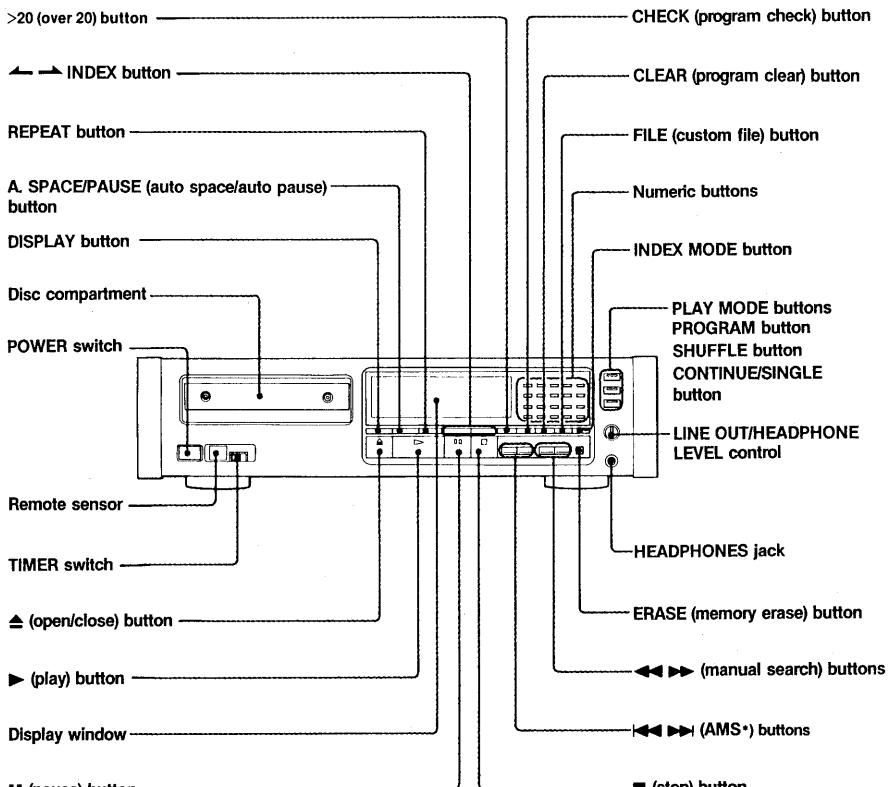
**When You Use the CD Player for the First Time**

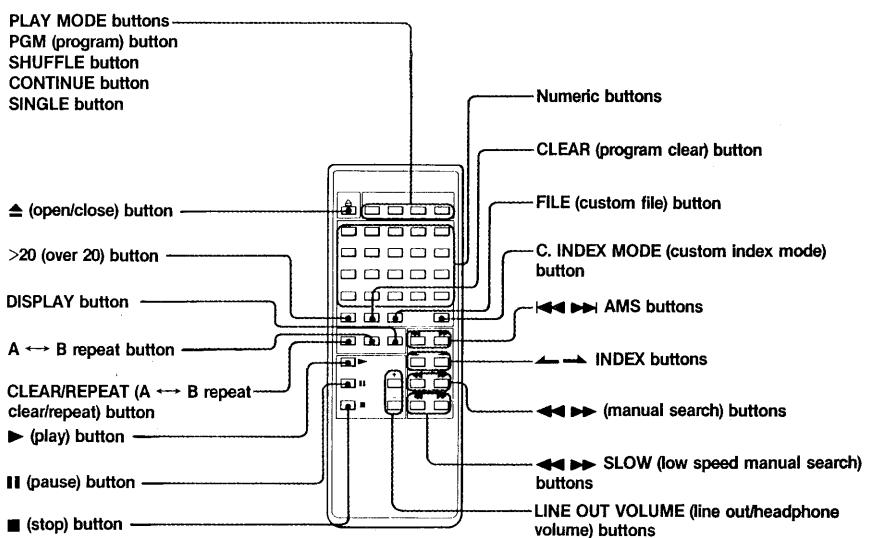
Illustration: CDP-707ESD

Turn on the power by pressing POWER while keeping ERASE and FILE pressed.

This will clear the internal memory if you have been instructed how to use the custom file function at the shop you purchased the CD player. Thus the player returns the same status as it was manufactured at factory.

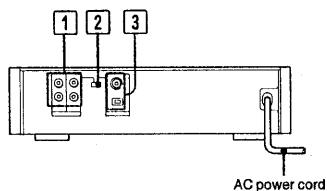
**Location of Controls****Front Panel**

\* AMS is an abbreviation of Automatic Music Sensor.

**Remote Commander**

## SECTION 1

### DISASSEMBLY

**Description on Rear Panel**

**[1] LINE OUT (audio output) jacks**

**FIXED:** Output the signal at the fixed level.  
**VARIABLE:** Output the signal at the level set by the LINE OUT/HEADPHONE LEVEL control (or LINE OUT VOLUME buttons on the remote commander).

**[2] OUTPUT SELECTOR**

Selects the output connectors to be used.  
**DIGITAL OUT:** Digital signal is output through the DIGITAL OUT jacks. No signal is output through the LINE OUT jacks or the HEADPHONES jack.  
**LINE OUT:** Audio signal is output through the LINE OUT jacks or the HEADPHONES jack. No signal is output through the DIGITAL OUT jacks. (Be sure to set to this position when you listen to the music through the headphones or the LINE OUT jacks.)

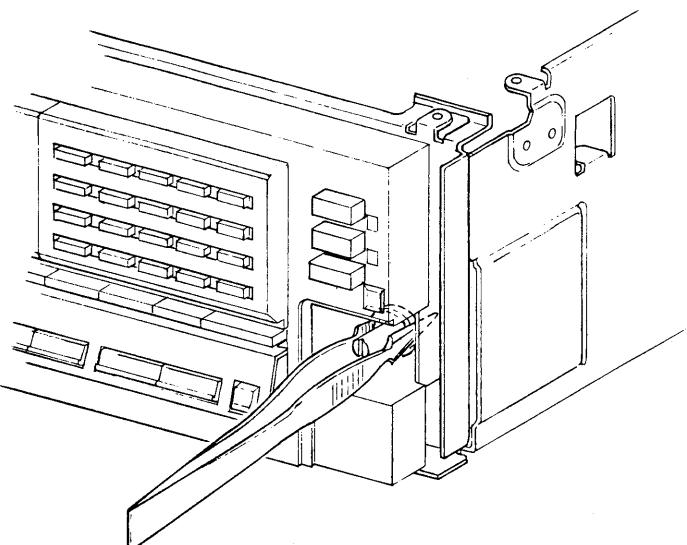
**[3] DIGITAL OUT (digital audio output) jacks**

Output the digital audio signals.  
**COAXIAL:** To be connected to a digital input jack of the amplifier or the D/A converter unit.  
**OPTICAL:** To be connected to the amplifier having an optical input jack.

**Note:** If the LINE OUT/HEADPHONE LEVEL control is turned while recording through the VARIABLE LINE OUT jacks, the level of the recorded sound will be different from that set by the recording level controls of the tape deck.

**NUT OF VOLUME REMOVAL**

After loosen the nut by plier, rotating nut with tweezers makes easy to remove it.



## SECTION 2

### ELECTRICAL ADJUSTMENTS

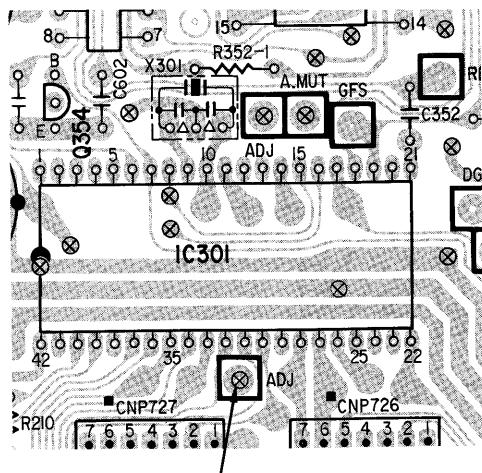
#### 2-1. ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-18 disc unless otherwise indicated.
3. Use the oscilloscope with more than  $10 \text{ M}\Omega$  impedance.

#### Adjustment Mode

1. Connect digital board test point ADJ and GND.  
 (This is to prevent the disc table from opening even though pits are not read, by making microcomputer IC301 pin (38) low.)
2. Turn POWER switch on.  
 (To reset microcomputer.)  
 After adjustment, remove the lead wire connecting test points ADJ and GND.

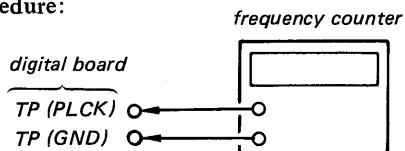
**Adjustment Location:** digital board



**test point ADJ**  
*(Connect the lead wire from this test point to GND.)*

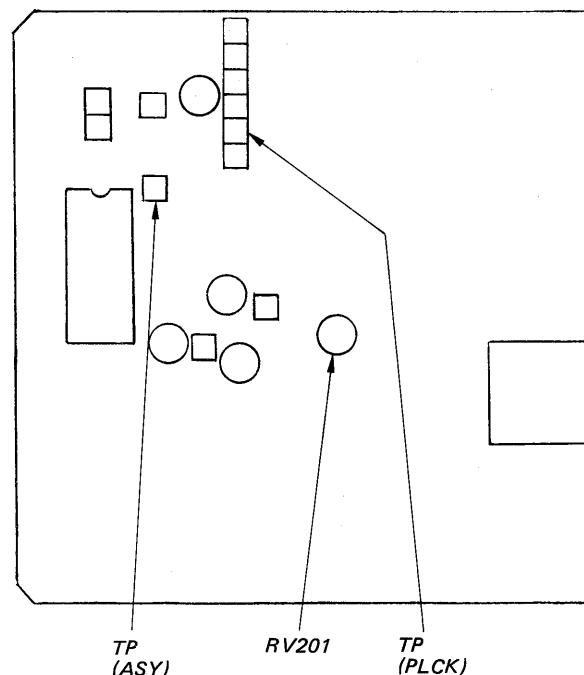
#### RF PLL Adjustment

##### Procedure:



1. Connect main board test point ASY and GND.
2. Connect the frequency counter to main board test points TP PLCK and TP GND.
3. Turn POWER switch ON (stop mode).
4. Adjust digital board RV201 so that reading on frequency counter is  $4.3218 \text{ MHz} \pm 3 \text{ kHz}$ .
5. Reconnect lead wires connected in adjustment mode.
6. Put disc (YEDS-18) in and press ▶ PLAY button.
7. Confirm that reading on frequency counter is  $4.3218 \text{ MHz}$ .

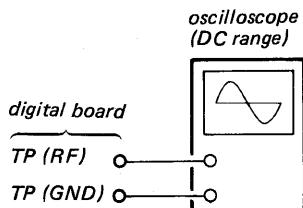
**Adjustment Location:** digital board



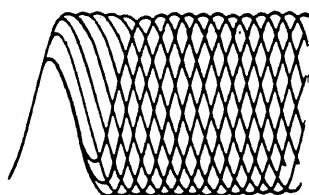
#### Focus Bias Adjustment

This adjustment should be made when replacing Optical Pick-up.

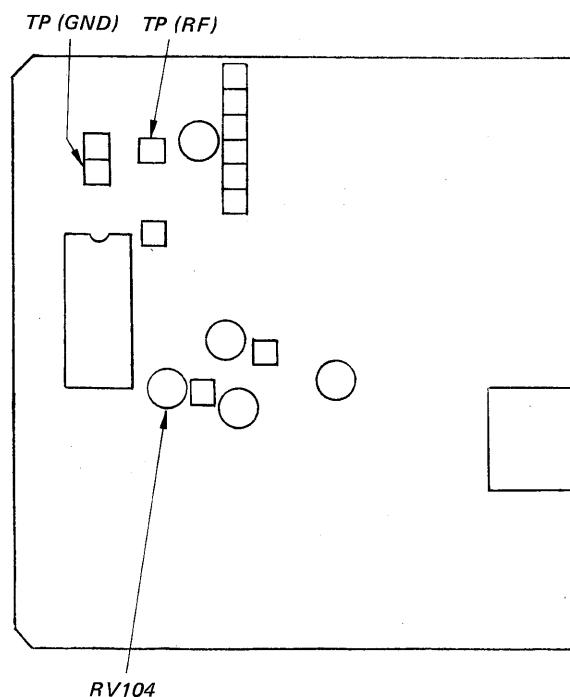
##### Procedure:



1. Connect oscilloscope to test points RF and GND.
2. Put set into adjustment mode. (See page 7.)
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and press ▶ button.
5. Adjust RV104 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: digital board



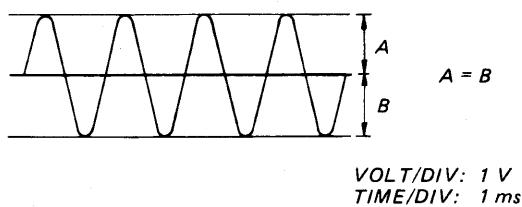
RV104

#### E-F Balance Adjustment

This adjustment should be made when replacing Optical Pick-up.

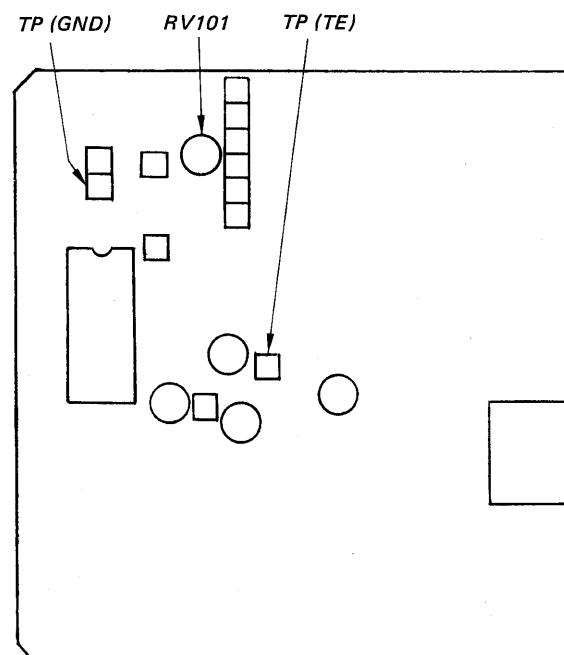
##### Procedure:

1. Connect oscilloscope to test points TE and GND.
2. Put set into adjustment mode. (See page 7.)
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and press ▶ button.
5. Adjust RV101 so that the traverse waveform is symmetrical above and below.
6. After adjustment, cancel the adjustment mode. (See page 7.)



VOLT/DIV: 1 V  
TIME/DIV: 1 ms

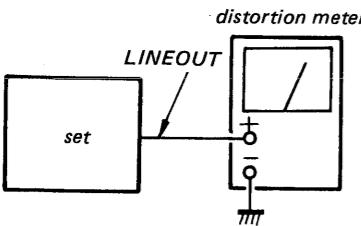
Adjustment Location: digital board



## REFERENCE

**Distortion Adjustment**

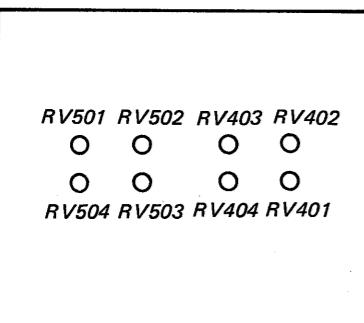
This adjustment should be made only when replacing D/A converter and components of the -15 V system power supply block.



1. Put disc (YEDS-18) in and playback 1 kHz, 0 dB signal track (second track).
2. Adjust the following volumes in order given by arrows so that the distortion is minimum.  
L-CH: RV404 → RV403 → RV401 → RV402  
R-CH: RV504 → RV503 → RV501 → RV502
3. Confirm the specification is satisfied. When out of specification, repeat item 2 and 3 several times.

**Specification:** 0.003% and below

**Adjustment Location:** main board

**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.

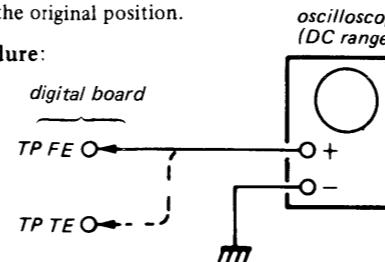
- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

Symptoms \ Gain	Focus	Tracking
• The time until music starts becomes longer for STOP → ▶PLAY or automatic selection (◀◀, ▶▶ buttons pressed.) (Normally takes about 1 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 noise during 2-axis device operation.	high	high

The following is a simple adjustment method.

## — Primary Adjustment —

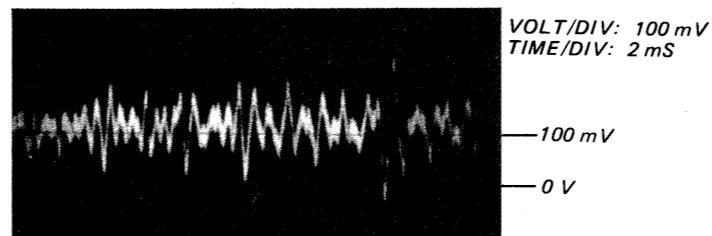
**Note:** Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the primary adjustment are only a little different, return the controls to the original position.

**Procedure:**

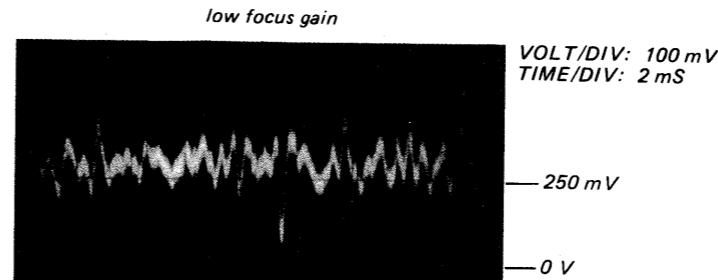
1. Keep the set horizontal.

(If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.)

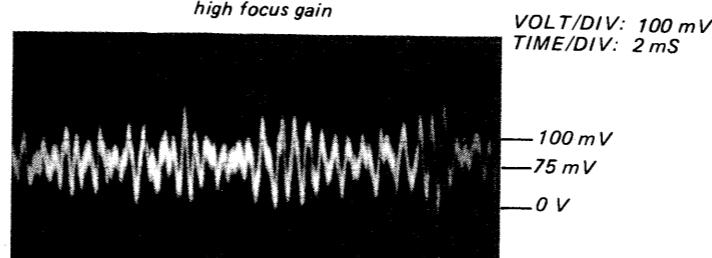
2. Put set in adjustment mode. (See page 7.)
3. Insert disc (YEDS-1) and press ▶PLAY button.
4. Connect oscilloscope to servo board TP FE.
5. Adjustment RV103 so that the waveform is as shown in the figure below. (focus gain adjustment)



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



low focus gain



high focus gain

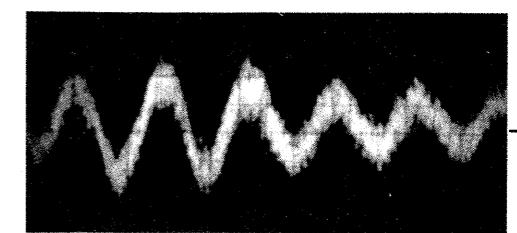
6. Connect oscilloscope to main board TP TE.

7. Adjust RV102 so that the waveform is as shown in the figure below. (tracking gain adjustment)

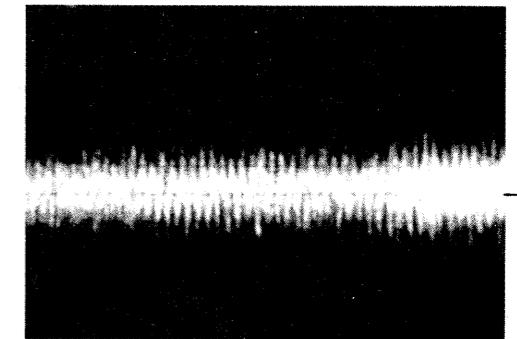


- Incorrect Examples (fundamental wave appears)

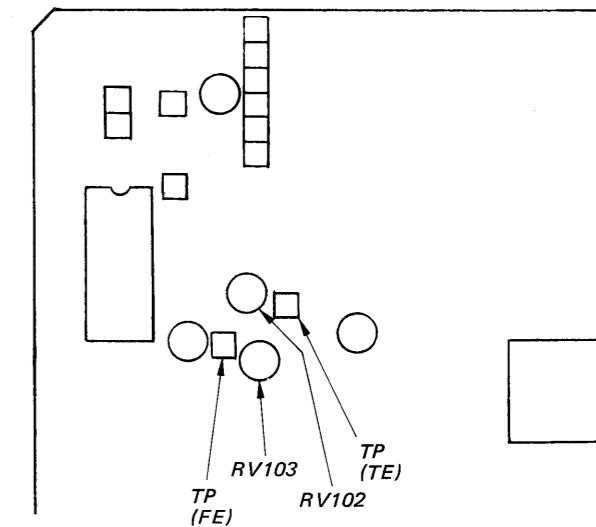
low tracking gain



high tracking gain  
(higher fundamental wave than for low gain)



**Adjustment Location:** digital board

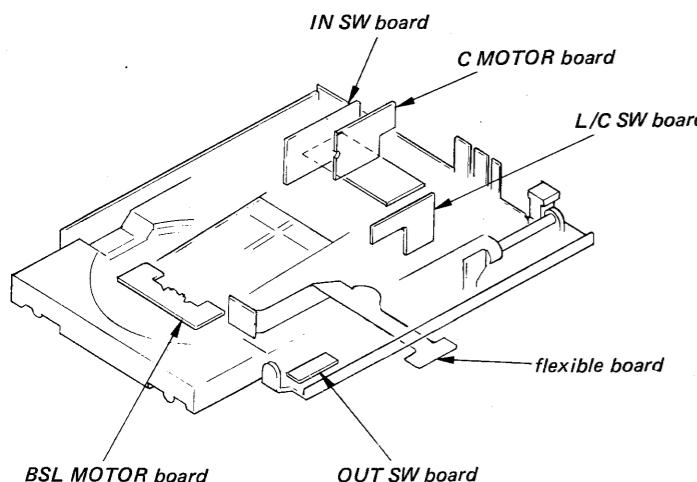
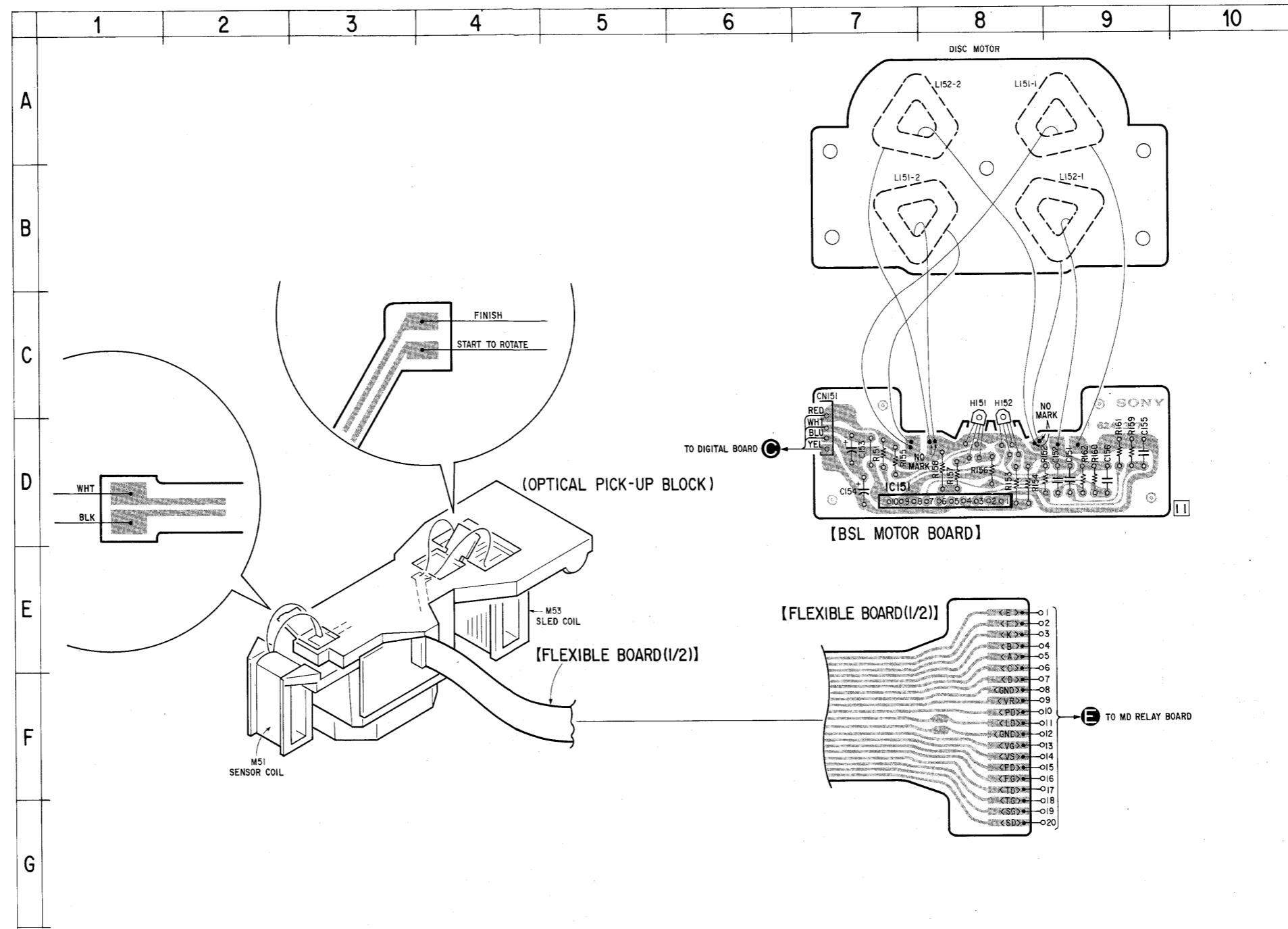


3-1. OPTICAL PICK-UP BLOCK MOUNTING DIAGRAM

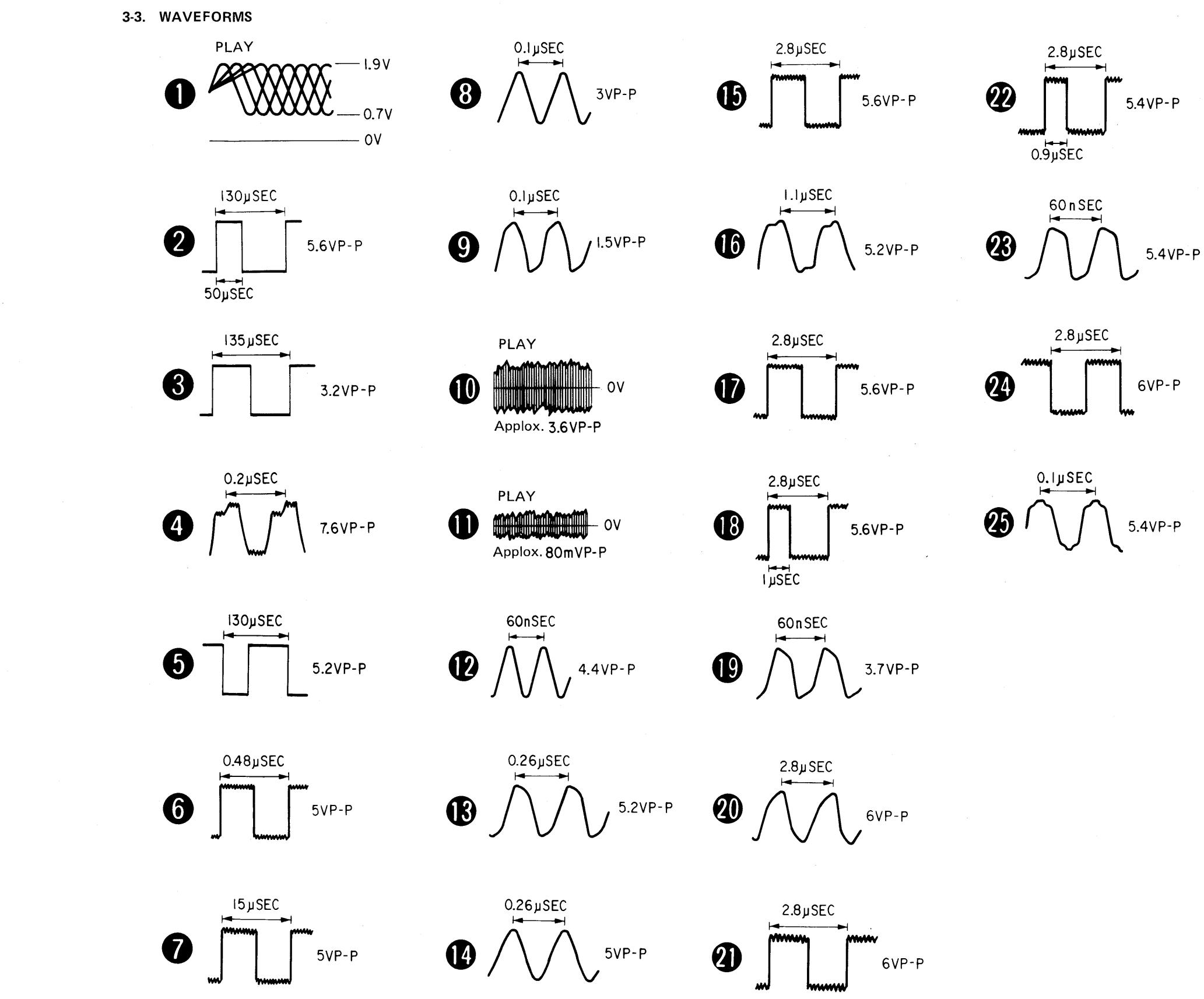
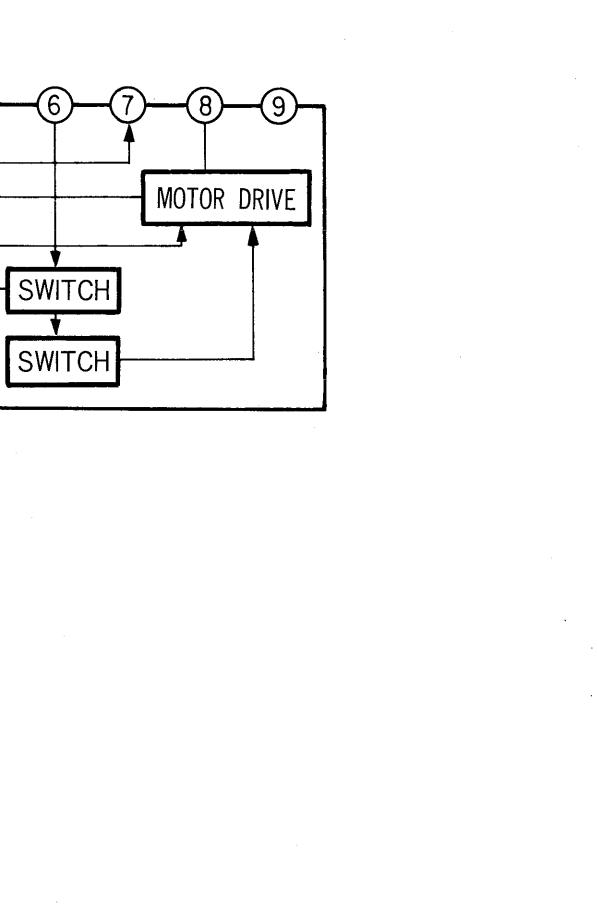
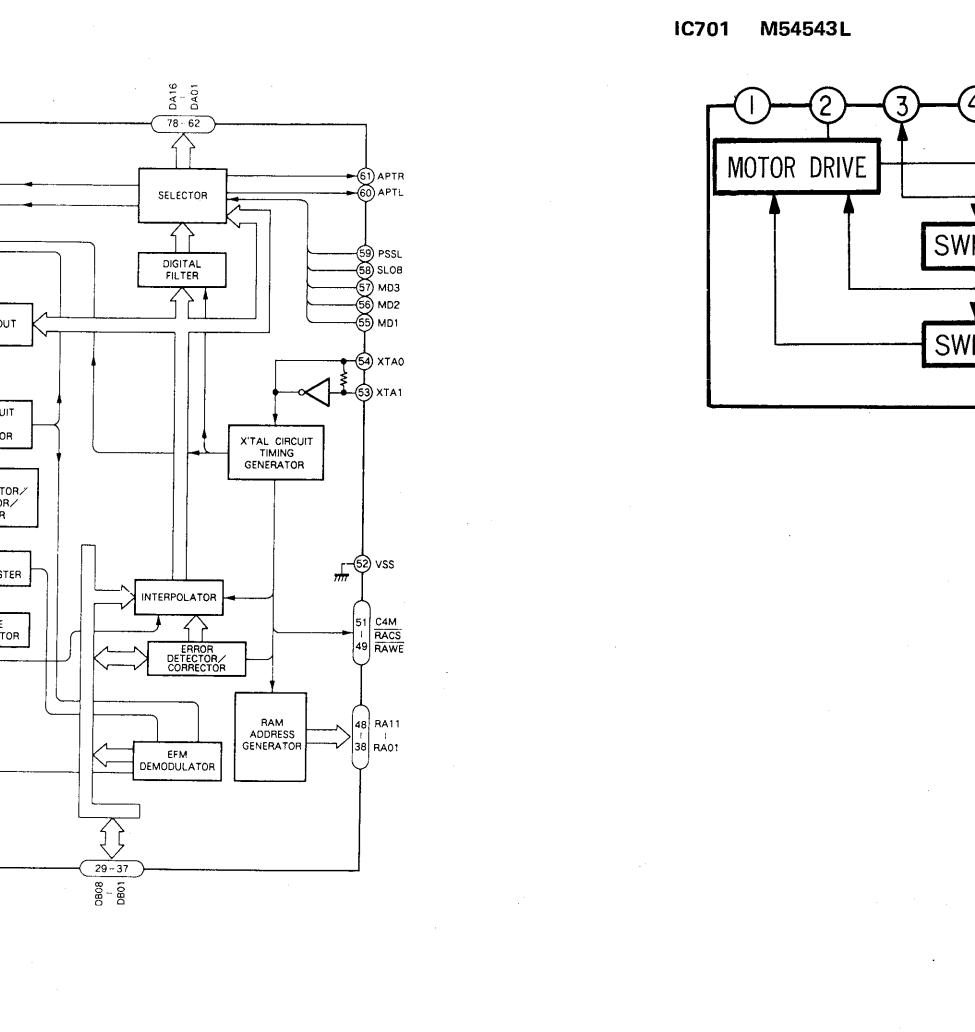
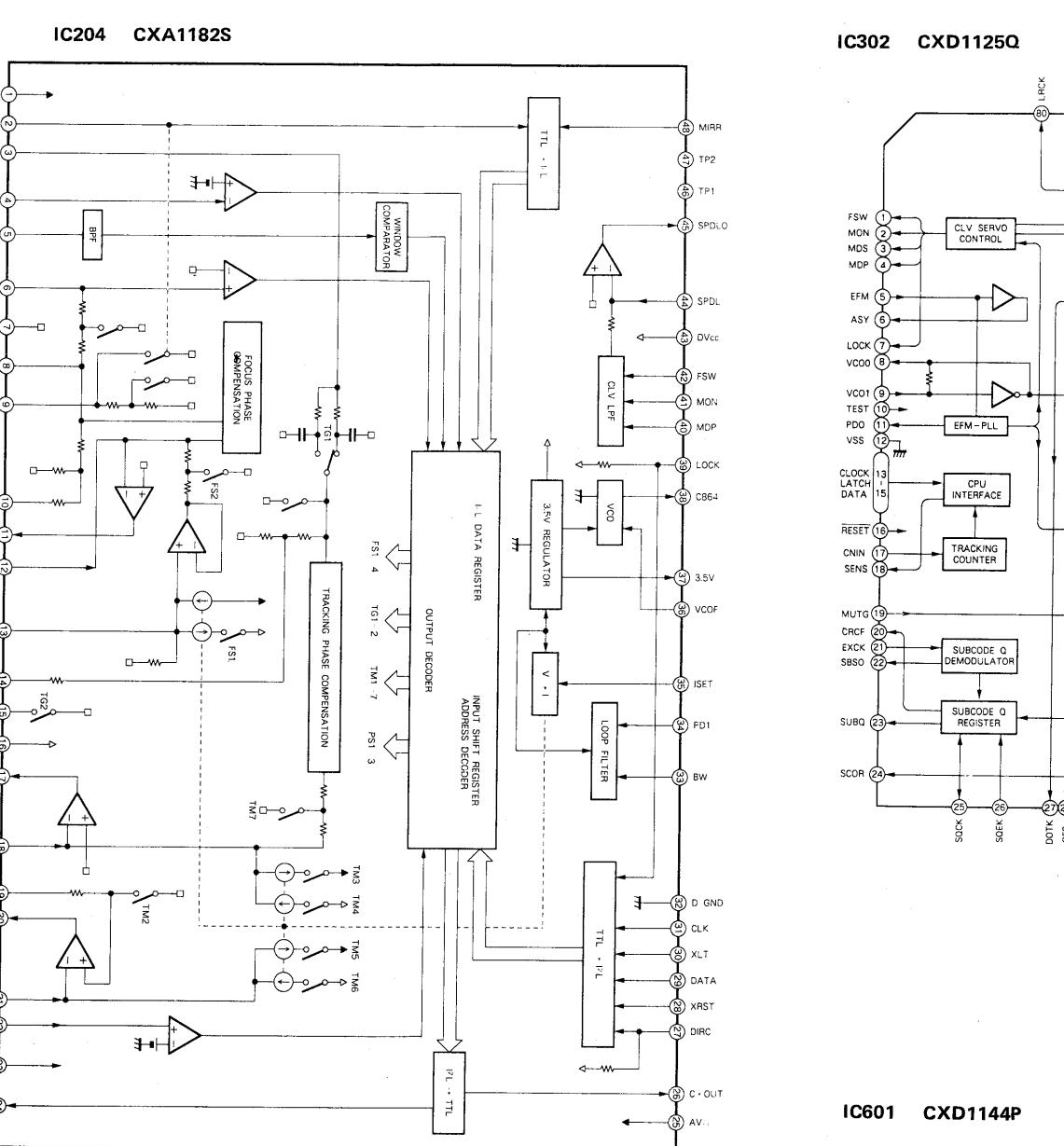
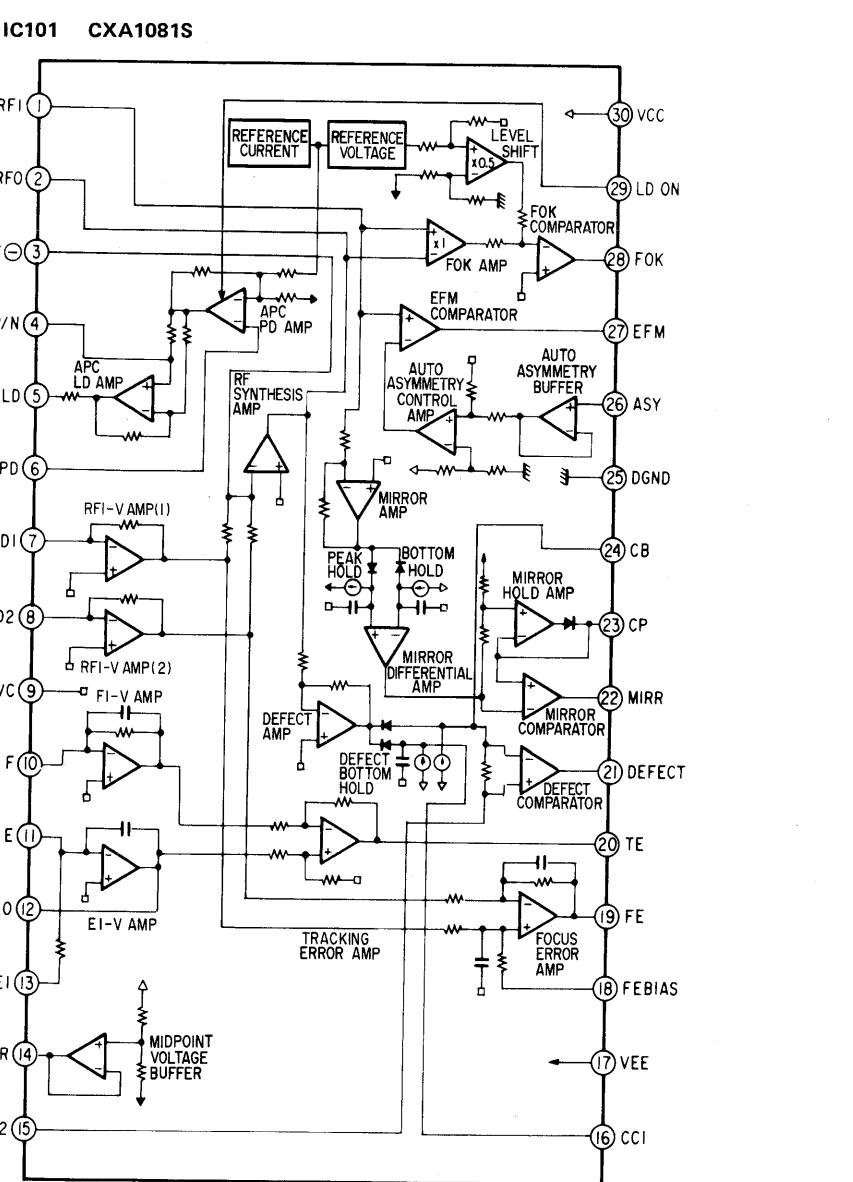
- See page 23 for Schematic Diagram.
- See page 29 for Semiconductor Lead Layouts.
- See page 18 for notes.

• SEMICONDUCTOR LOCATION

Ref. No.	Location
IC151	D-7



## 3-2. IC BLOCK DIAGRAMS

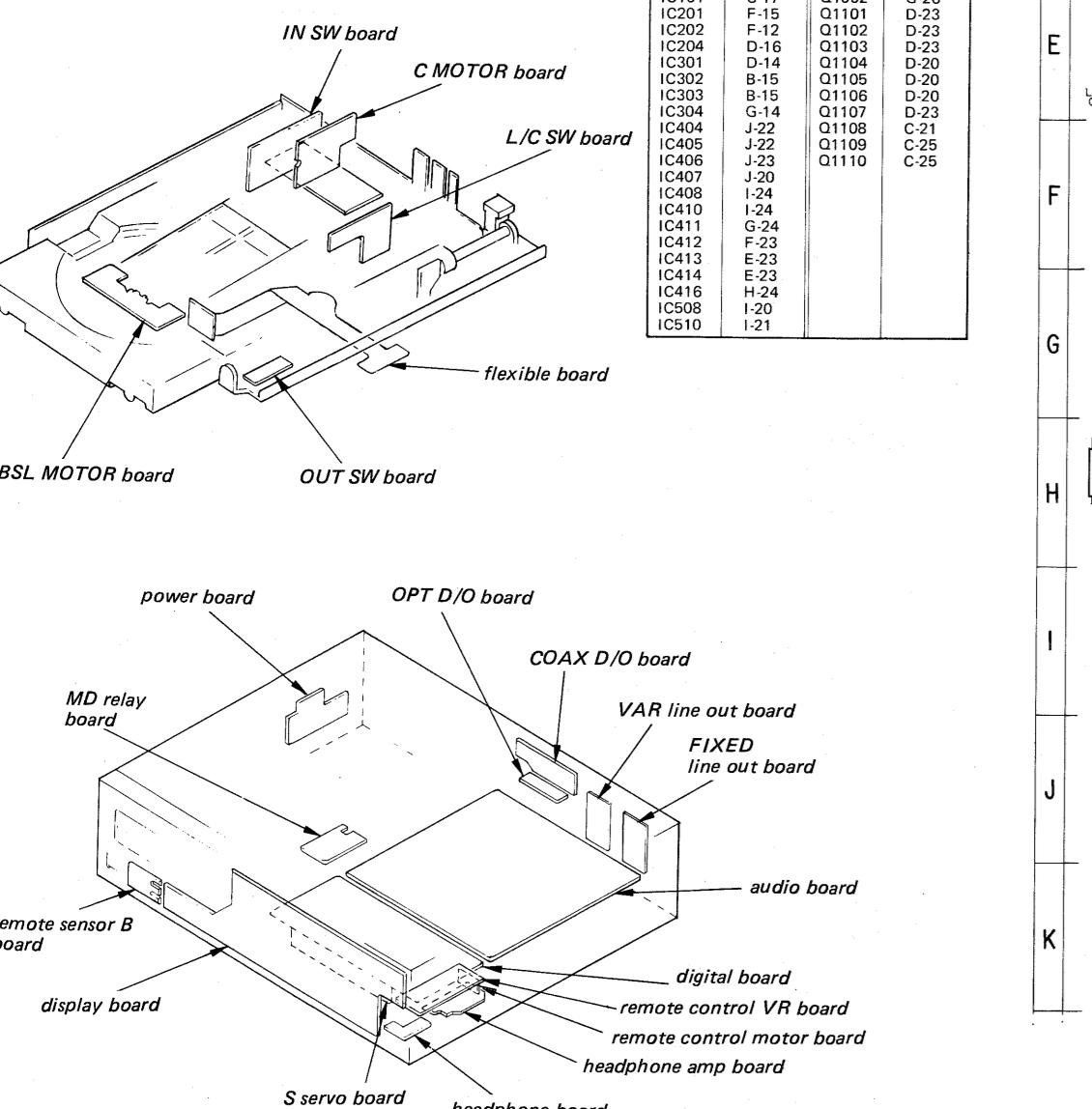


## 3-4. MAIN SECTION MOUNTING DIAGRAM

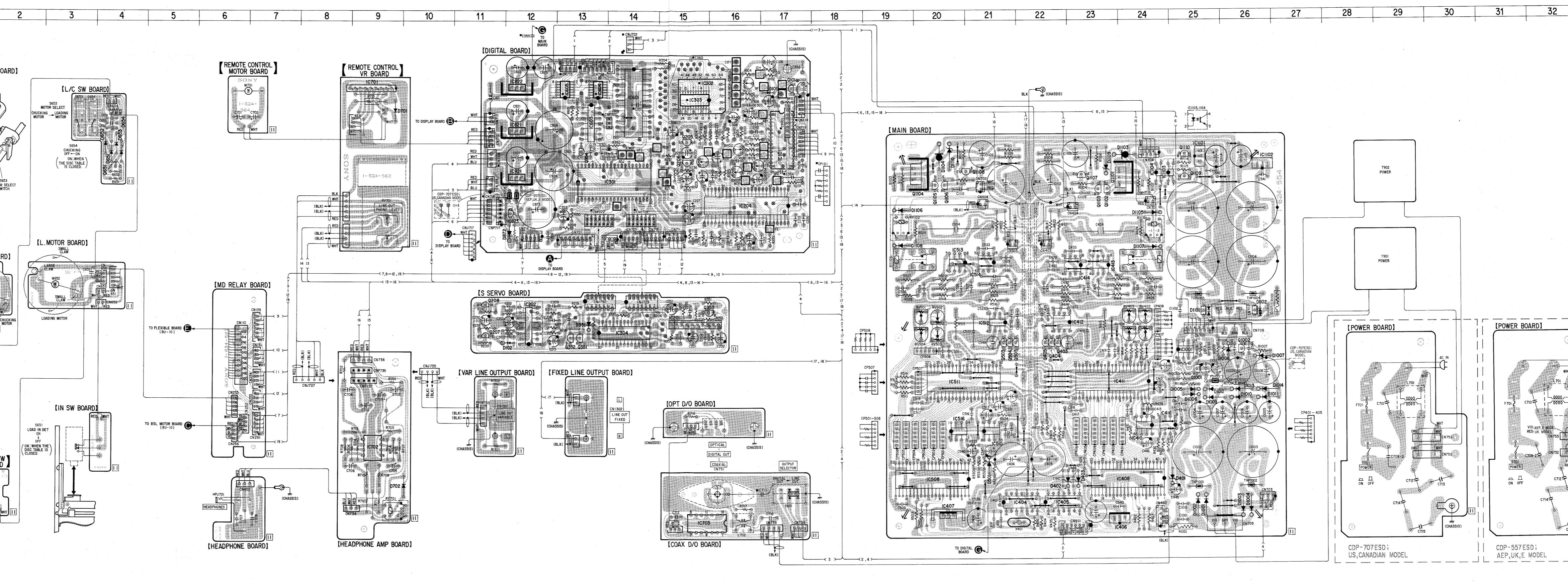
- See page 11 for Optical Pick-up Block.
- See page 29 for Display section.
- See page 29 for Semiconductor Lead Layouts.

## Note:

- Color code or sleeving over the end of the jacket.
- parts extracted from the component side.
- parts mounted on the conductor side.
- Through hole.
- Pattern on the side which is seen.
- Pattern of the rear side.



SEMICONDUCTOR LOCATION			
Ref. No.	Location	Ref. No.	Location
D101	G-12	IC511	G-20
D102	G-12	IC512	F-21
D351	F-13	IC513	E-20
D401	G-14	IC514	E-17
D402	I-22	IC515	H-20
D403	I-23	IC516	H-20
D501	I-21	IC603	B-13
D651	C-4	IC604	B-13
D652	C-4	IC605	B-13
D653	C-4	IC701	B-9
D701	B-9	IC703	J-15
D702	L-9	IC821	C-12
D703	L-11	IC822	B-12
D1001	I-25	IC823	D-12
D1002	I-25	IC921	C-12
D1003	J-26	IC1001	G-25
D1004	J-26	IC1101	G-25
D1005	J-25	IC1102	C-26
D1006	K-24	IC1103	C-24
D1007	K-24	IC1104	C-24
D1008	G-26	Q101	B-17
D1009	H-26	Q102	B-17
D1010	H-26	Q103	C-15
D1011	H-26	Q104	C-15
D1012	H-25	Q105	G-11
D1013	H-26	Q106	F-11
D1014	H-27	Q107	G-13
D1102	F-25	Q108	F-13
D1103	C-25	Q109	C-13
D1104	C-20	Q103	G-22
D1105	D-24	Q104	G-22
D1106	D-20	Q105	G-22
D1107	D-20	Q106	G-22
D1108	D-20	Q504	G-21
D1109	C-23	Q505	G-21
D1110	C-20	Q501	C-4
IC101	C-17	Q1001	G-25
IC201	F-15	Q1002	D-23
IC202	F-12	Q1003	D-23
IC204	D-16	Q1004	D-20
IC301	D-14	Q1005	D-20
IC302	D-14	Q1006	D-20
IC303	B-15	Q1007	D-23
IC304	G-14	Q1008	D-23
IC405	J-22	Q1009	C-21
IC407	J-20	Q1010	C-25
IC408	I-24	Q1011	C-25
IC410	I-24	Q1012	D-20
IC411	G-24	Q1013	D-23
IC413	E-23	Q1014	E-23
IC416	H-24	Q1015	I-20
IC508	I-20	Q110	I-21



## 3-5. MAIN SECTION SCHEMATIC DIAGRAM (INCLUDING OPTICAL PICK-UP BLOCK)

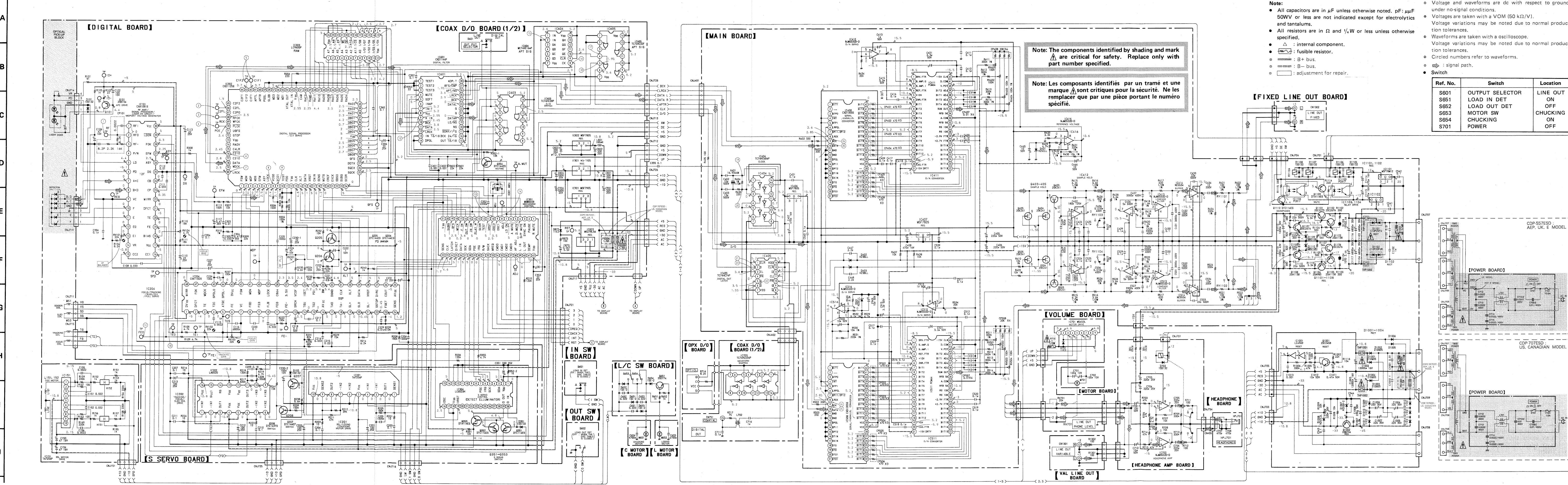
- See page 13 for IC Block Diagrams.
- See page 16 for Waveforms.
- See page 29 for Display section.

CDP-557ESD/707ESD

CDP-557ESD/707ESD

CDP-557ESD/707ESD

CDP-557ESD/707ESD



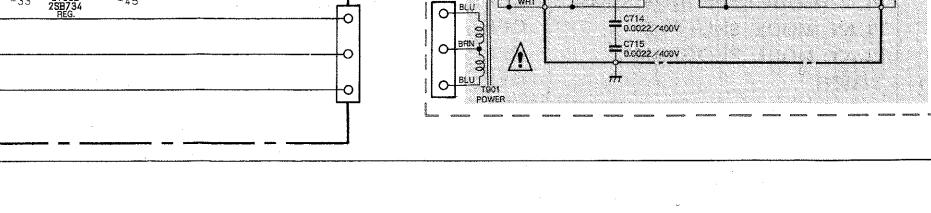
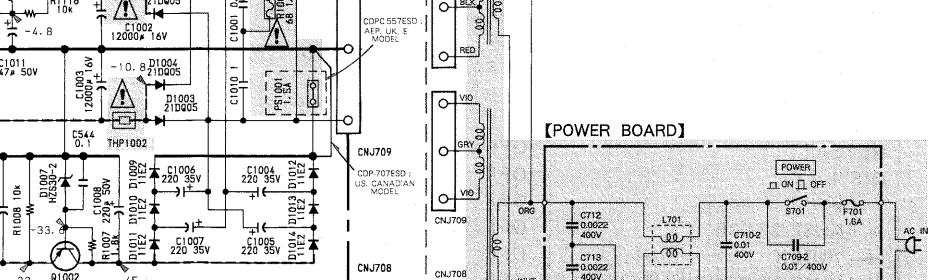
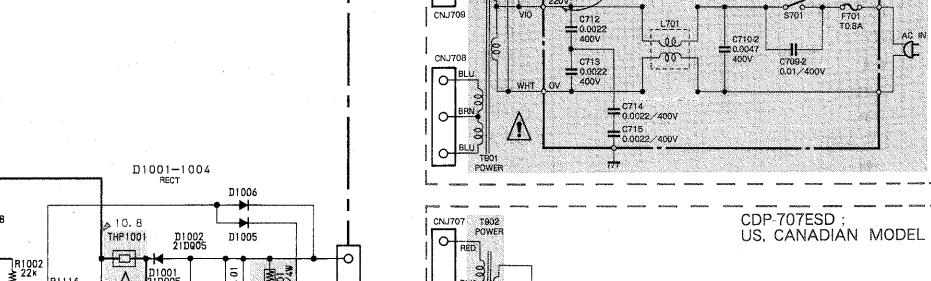
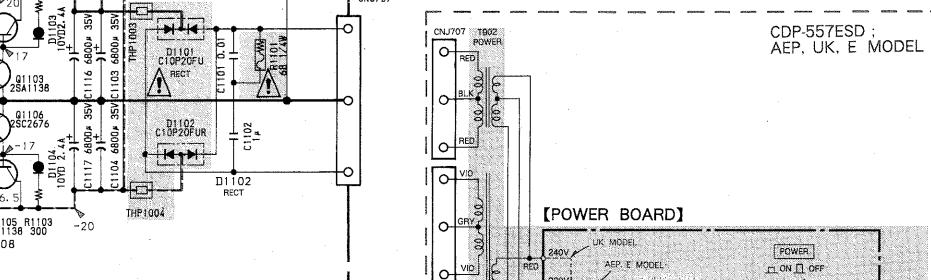
CDP-557ESD/707ESD

CDP-557ESD/707ESD

CDP-557ESD/707ESD

- Note:**
- All capacitors are in  $\mu F$  unless otherwise noted.  $pF: \mu\mu F$
  - 50W or less are not indicated except for electrolytics and tantalums.
  - All resistors are in  $\Omega$  and  $1/4 W$  or less unless otherwise specified.
  - Waveforms are taken with an oscilloscope.
  - Voltages are taken with a VOM ( $50 \text{ k}\Omega/\text{V}$ ).
  - Voltage variations may be noted due to normal production tolerances.
  - Internal component.
  - Fuseable resistor.
  - B+ bus.
  - B- bus.
  - Signal path.
  - Adjustment for repair.

Ref. No.	Switch	Location
S601	OUTPUT SELECTOR	LINE OUT
S651	LOAD IN DET	ON
S652	LOAD OUT DET	OFF
S653	MOTOR SW	CHUCKING
S654	CHUCKING	ON
S701	POWER	OFF



## 3-6. DISPLAY SECTION MOUNTING DIAGRAM • See page 18 for Main section.

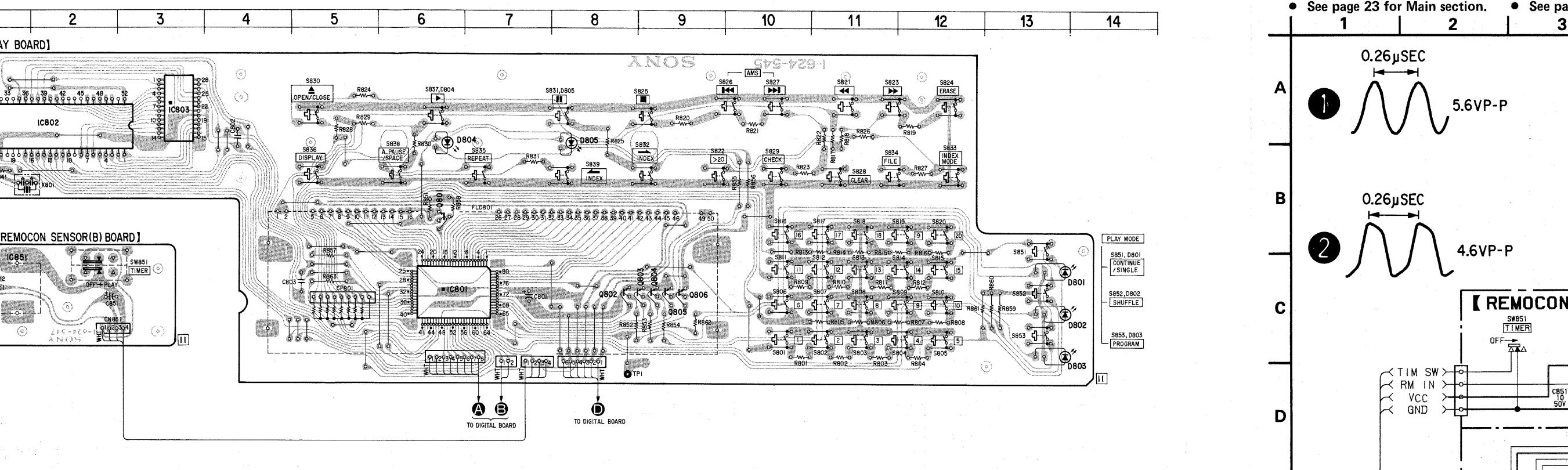
Note on Schematic Diagram:

- All capacitors are in  $\mu$ F unless otherwise noted. pF:  $\mu\mu$ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4$ W or less unless otherwise specified.
- $\triangle$ : internal component.
- B+ bus.
- B- bus.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (50 k $\Omega$ /V). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Switch

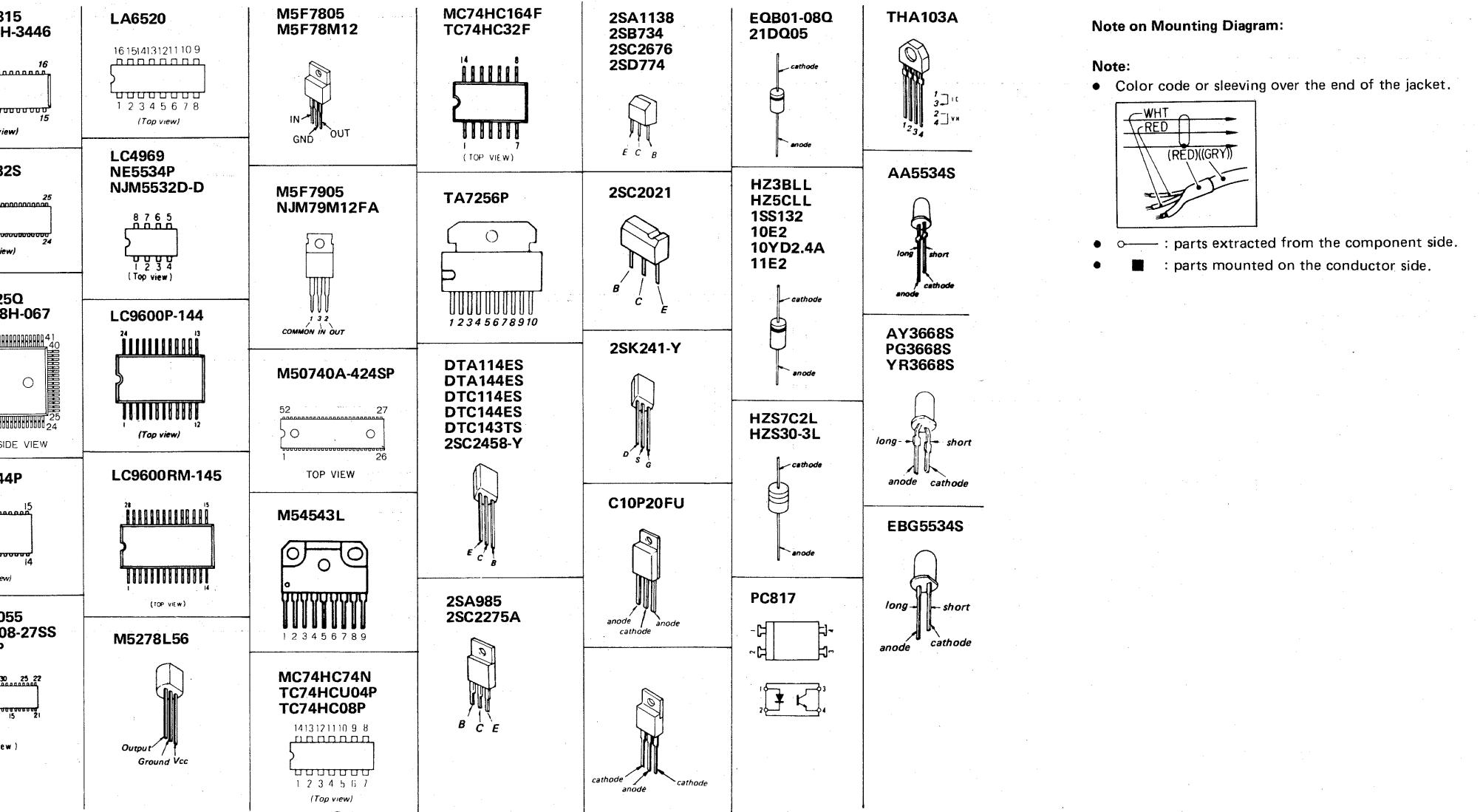
Ref. No.	Switch	Location
S801	1	OFF
S802	2	OFF
S803	3	OFF
S804	4	OFF
S805	5	OFF
S806	6	OFF
S807	7	OFF
S808	8	OFF
S809	9	OFF
S810	10	OFF
S811	11	OFF
S812	12	OFF
S813	13	OFF
S814	14	OFF
S815	15	OFF
S816	16	OFF
S817	17	OFF
S818	18	OFF
S819	19	OFF
S820	20	OFF
S821	◀	OFF
S822	>20	OFF
S823	ERASE	OFF
S825	AMS ▲	OFF
S826	AMS ▶	OFF
S827	AMS ▶	OFF
S828	CLEAR	OFF
S829	CHECK	OFF
S830	▲ OPEN/CLOSE	OFF
S831	II INDEX	OFF
S832	INDEX MODE	OFF
S833	FILE	OFF
S834	REPEAT	OFF
S835	DISPLAY	OFF
S836	▶ INDEX	OFF
S837	A. PAUSE/SPACE	OFF
S838	◀ INDEX	OFF
S839	PLAY MODE CONTINUE/SINGLE	OFF
S851	PLAY MODE SHUFFLE	OFF
S852	PLAY MODE PROGRAM	OFF
S853	TIMER	OFF

## SEMICONDUCTOR LOCATION

Ref. No.	Location
D801	C-14
D802	D-14
D803	D-14
D804	B-7
D805	B-8
IC801	C-6
IC802	B-2
IC803	A-3
IC851	C-1
Q801	B-6
Q802	D-8
Q803	C-9
Q804	C-9
Q805	D-9
Q806	D-9



## 3-7. SEMICONDUCTOR LEAD LAYOUTS

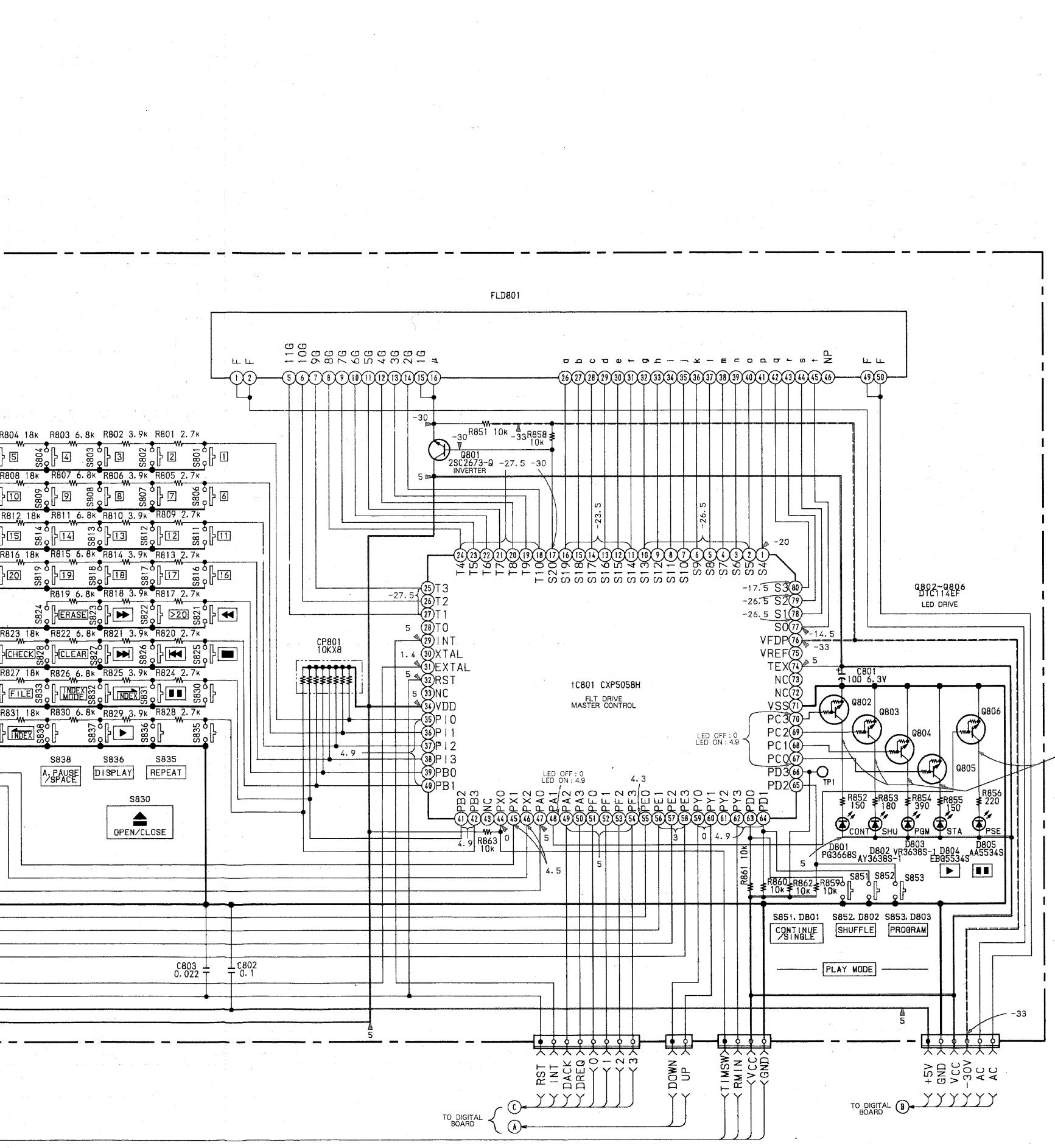


## Note on Mounting Diagram:

- Color code or sleeving over the end of the jacket.
- : parts extracted from the component side.
- : parts mounted on the conductor side.

## 3-8. DISPLAY SECTION SCHEMATIC DIAGRAM

- See page 23 for Main section.
- See page 13 for IC Block Diagram.



SECTION 4

# **EXPLODED VIEWS AND PARTS LIST**

**NOTE:**

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

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

- Color Indication of Appearance Parts  
Example:

(RED) ... KNOB, BALANCE (WHITE)

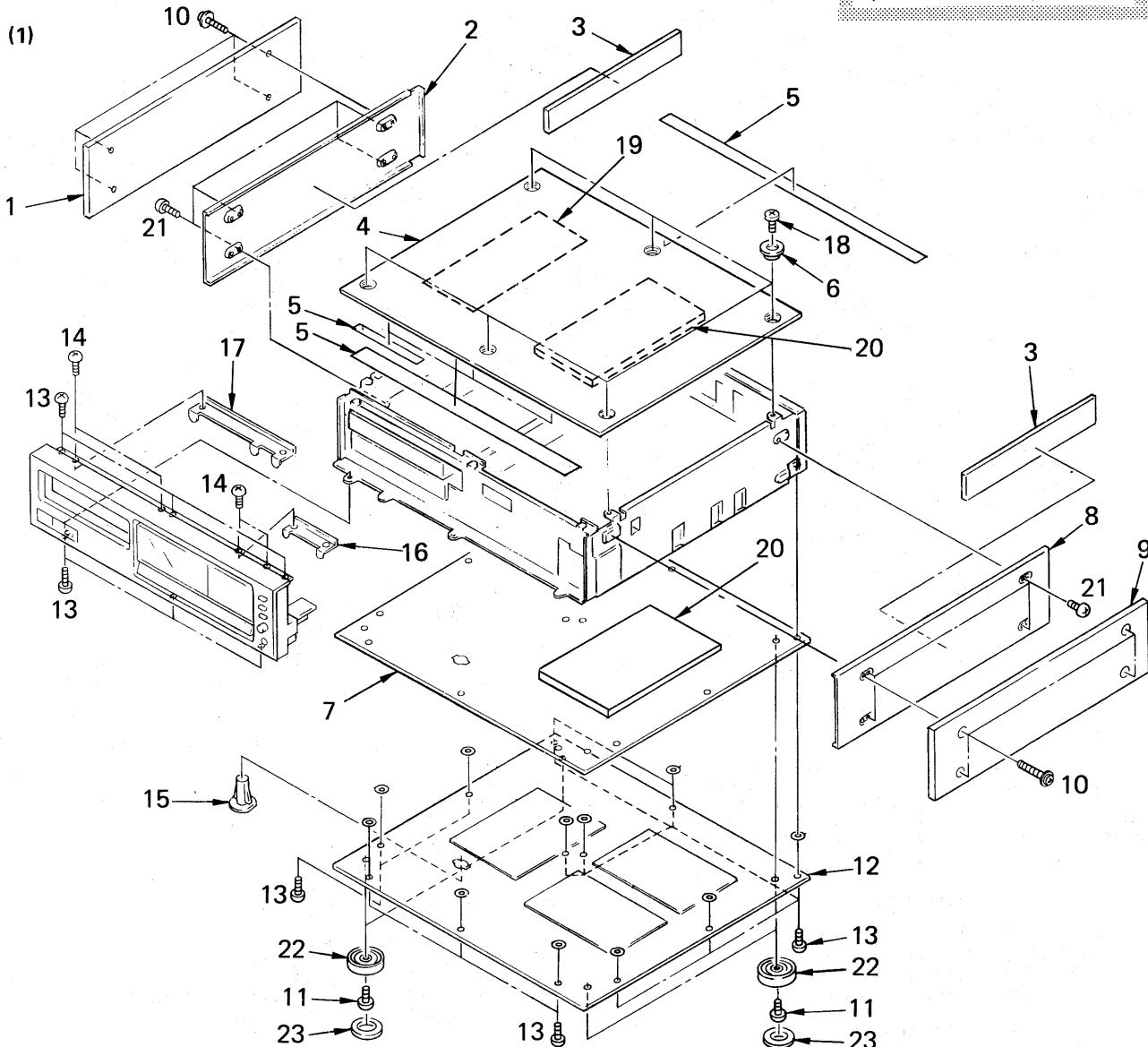
↑ ↑

## Cabinet's Color

### Parts' Color

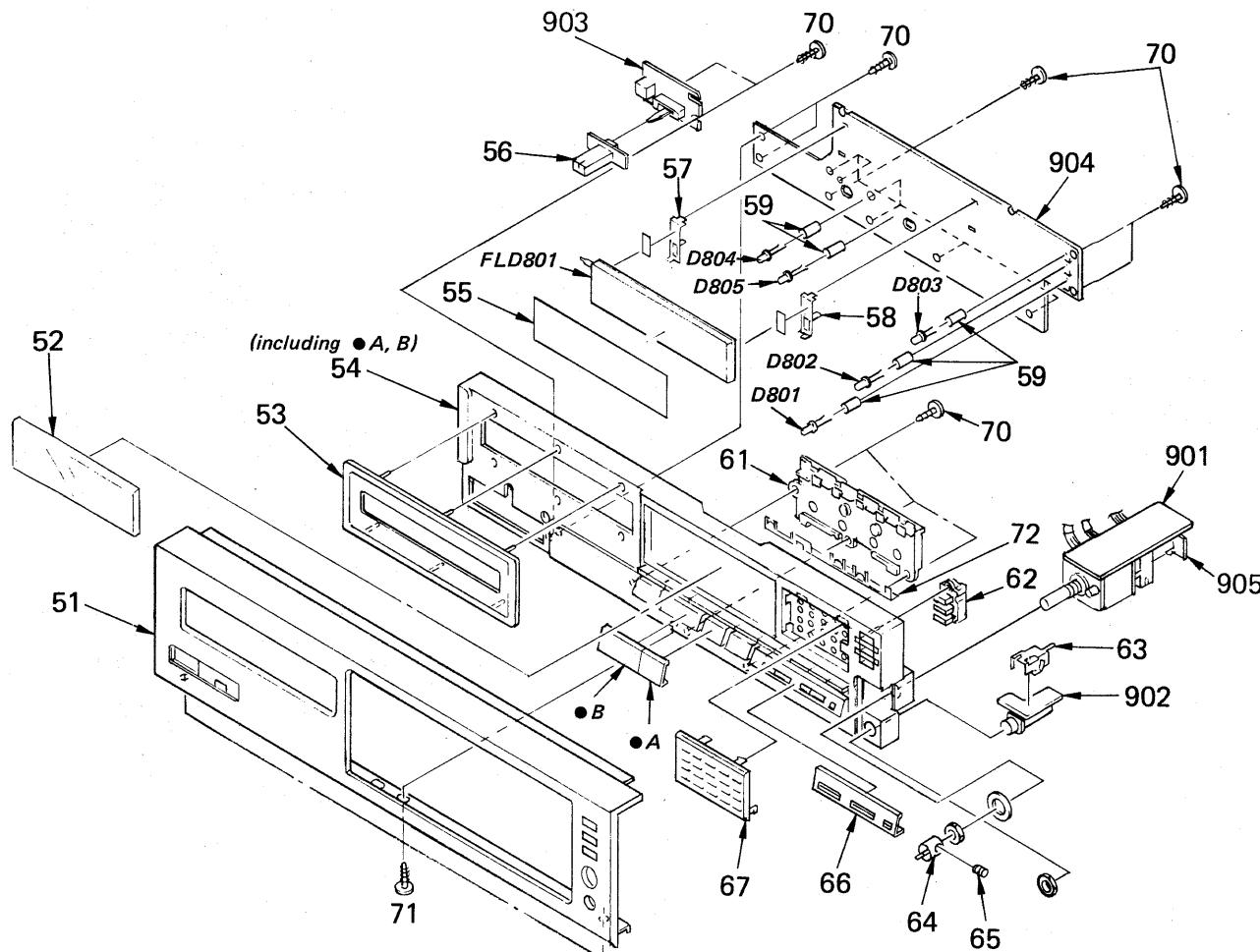
The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.

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	X-4922-509-1 X-4922-538-1	(US,Canadian)...PLATE (LEFT) ASSY, SIDE (AEP).....PLATE (LEFT) ASSY, SIDE		9	X-4922-510-1 X-4922-539-1	(US,Canadian)...PLATE (RIGHT) ASSY, SIDE (AEP).....PLATE (RIGHT) ASSY, SIDE	
2	*4-922-551-01 *4-922-595-01	(US,Canadian)...PLATE (LEFT), SIDE (AEP,UK).....PLATE (LEFT), SIDE		10	4-885-979-11 11 12	(US,Canadian,AEP)...SCREW (4X25) SCREW +PS 4X20 PLATE, BOTTOM	
3	*4-923-544-01	CUSHION (C)		13	3-703-685-21	SCREW (+BV 3X8)	
4	4-922-575-11 4-922-575-21	(US,Canadian,AEP)...PLATE, TOP (UK).....PLATE, TOP		14	7-621-259-35	SCREW +BVTT 2.6X5 (S)	
5	3-831-441-XX *4-922-933-01	(AEP,UK)...TAPE (US).....SPACER		15 16 17 18 19	*4-922-553-01 *4-923-505-01 *4-923-519-01 7-682-546-09 *4-913-188-01	PLATE, LOCK, TRANSPORT RETAINER (B), PANEL RETAINER (A), PANEL SCREW +B 3X5 FELT (C), ACOUSTIC ABSORBENT	
6	4-922-535-01	RING, ORNAMENTAL		20	*4-913-189-01	FELT (B), ACOUSTIC ABSORBENT	
7	4-922-578-31	PLATE, BOTTOM		21 22 23	4-847-802-00 4-922-544-01 4-922-543-01	(UK)...SCREW BASE, FOOT FOOT	
8	*4-922-550-01 *4-923-596-01	(US,Canadian)...PLATE (RIGHT), SIDE (AEP,UK).....PLATE (RIGHT), SIDE					

(2)

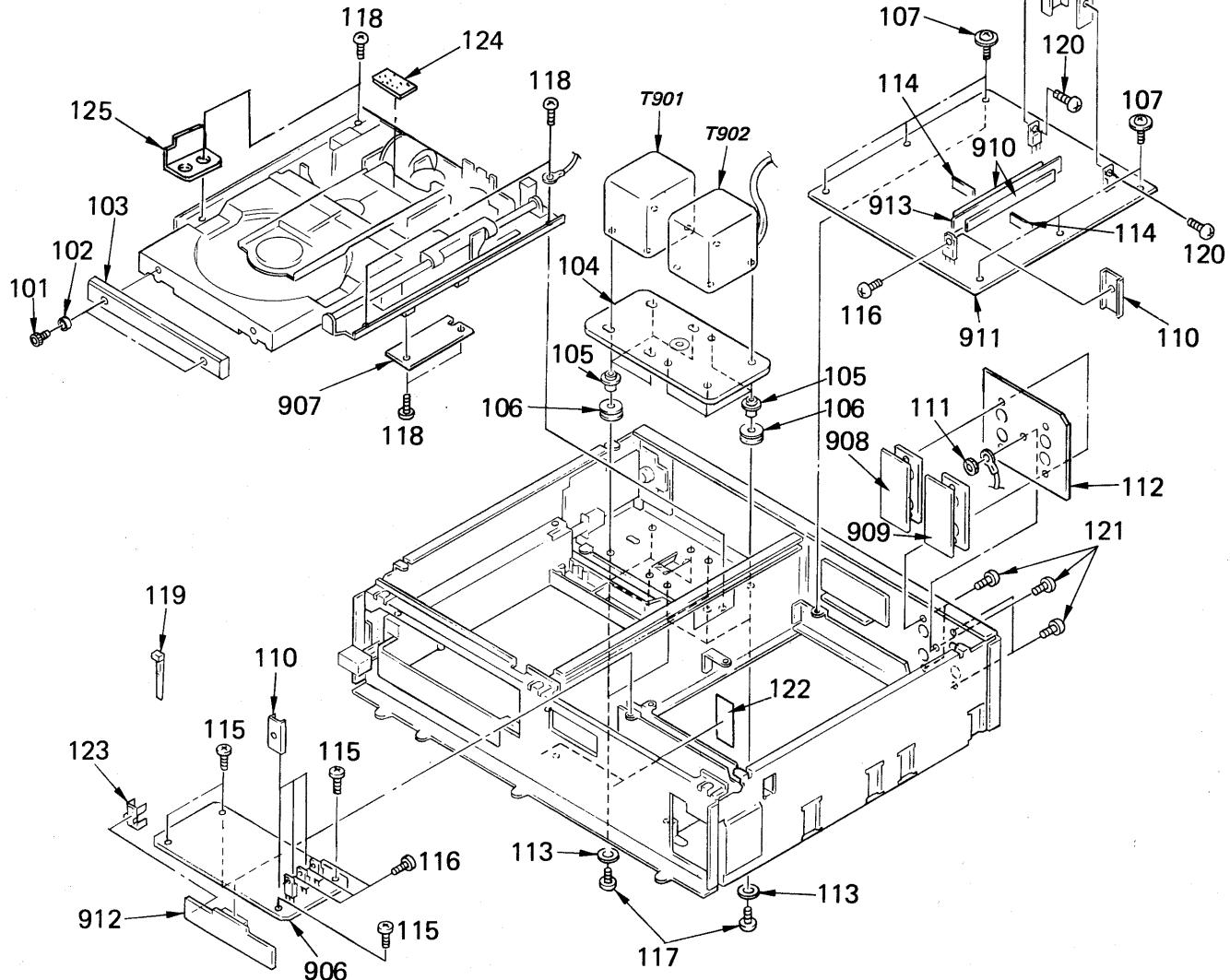


No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	X-4922-523-1 X-4922-531-1 X-4922-540-1	(AEP).....FRONT PANEL ASSY (US,Canadian)...FRONT PANEL ASSY (UK).....FRONT PANEL ASSY		61	4-922-559-01	BASE, SUB	
52	4-923-516-01	PLATE, INDICATION		62	X-4922-518-1	BUTTON (MODE) ASSY	
53	4-922-558-01 4-922-558-11	(AEP,UK).....COVER (US,Canadian)....COVER		63	4-922-579-01	PLATE, GROUND (HP)	
54	X-4922-532-1 X-4922-534-1	(US,Canadian)...PANEL BASE ASSY (AEP,UK).....PANEL BASE ASSY		64	4-923-536-01	KNOB, VOLUME	
55	4-923-502-01	FILTER		65	3-701-505-00	SET SCREW, DOUBLE POINT 3X3	
56	4-887-131-00	KNOB, SLIDE SWITCH		66	4-923-509-01	ESCUTCHEON, SERCH BUTTON	
57	*4-922-524-01	HOLDER (LEFT)		67	A-4605-181-A	KEY ASSY, 20	
58	*4-922-523-01	HOLDER (RIGHT)		70	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
59	*4-923-532-01	SPACER, LED		71	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
				72	4-923-515-01	PLATE, GROUND	
				901	*1-624-562-11	PC BOARD, VOLUME	
				902	*1-624-548-11	PC BOARD, HEADPHONE	
				903	*1-624-547-11	PC BOARD, REMOCOM SENSOR (B)	
				904	*A-4655-059-A	MOUNTED PCB, DISPLAY	
				905	*1-624-564-11	PC BOARD, MOTOR	
				FLD801	1-519-427-11	INDICATOR TUBE, FLUORESCENT	

(3)

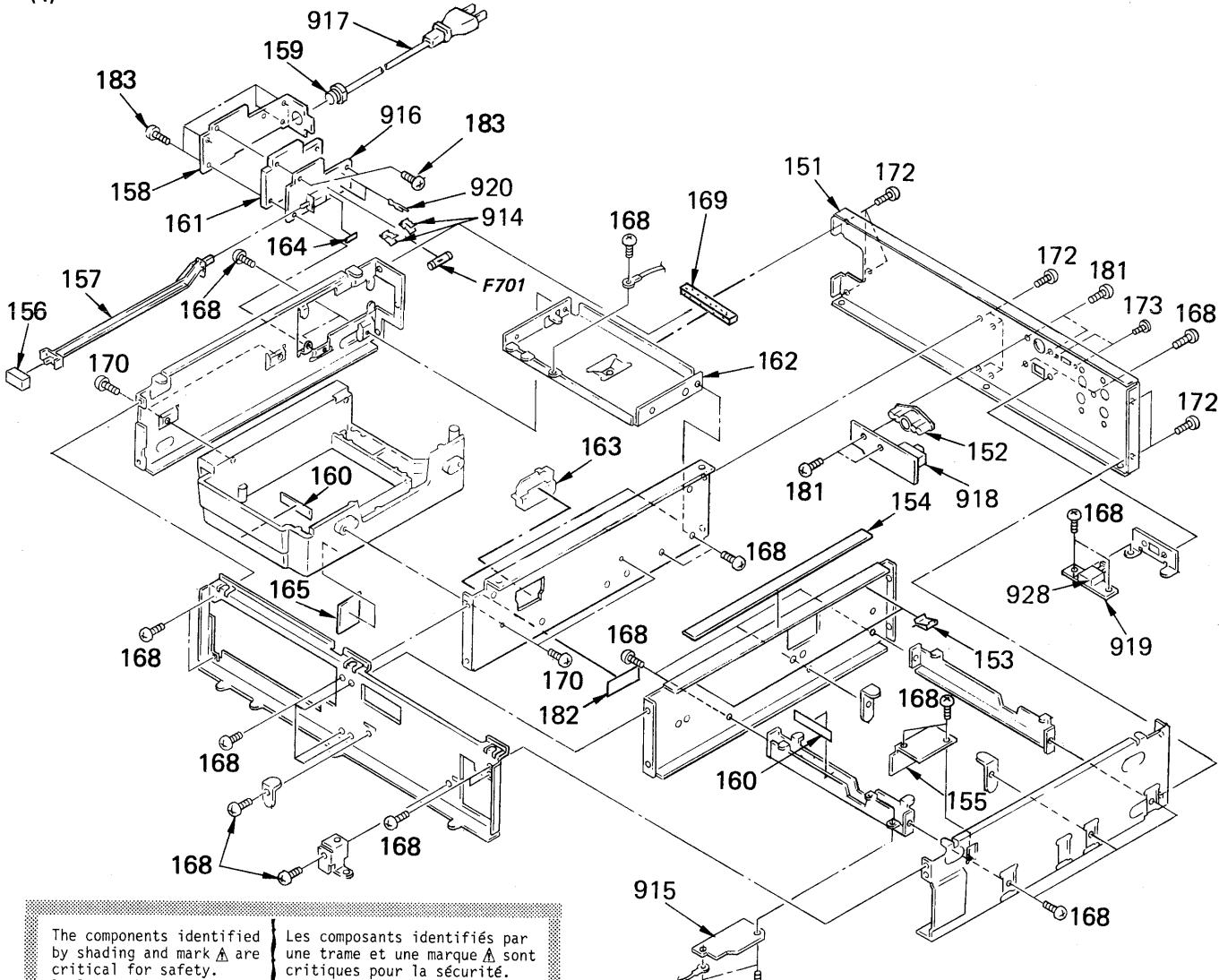
The components identified by shading and mark A are critical for safety. Replace only with part number specified.

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
101	7-683-412-05	BOLT, HEXAGON SOCKET 2.6X6		118	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
102	4-884-635-00	BASE, ORNAMENTAL		119	3-691-877-01	BAND, BINDING	
103	4-922-564-03 4-922-564-14	(AEP,UK).....PANEL, LOADING (US,Canadian)...PANEL, LOADING		120	7-682-148-15	SCREW, TR	
				121	3-703-685-21	SCREW (+BV 3X8)	
				122	3-831-441-XX	CUSHION (B)	
104	*4-922-563-01	BASE, TRANSFORMER		123	*4-922-525-01	HEAT SINK	
105	*4-923-542-01	COLLAR		124	*4-912-552-01	SHEET (B), DT PS	
106	*4-888-798-00	BUSHING, RUBBER		125	*4-923-564-01	REINFORCEMENT	
107	X-4908-910-1	SCREW ASSY (+ BVTT)		906	*A-4619-303-A	MOUNTED PCB, DIGITAL SERVO	
108	*4-886-555-00	HEAT SINK		907	*1-624-563-11	PC BOARD, TRANSLATION	
109	4-870-272-00	HEAT SINK		908	*1-624-561-11	PC BOARD, VAR LINE OUTPUT	
110	*3-309-144-01	HEAT SINK		909	*1-624-560-11	PC BOARD, FIXED LINE OUTPUT	
111	7-684-023-04	N 3, TYPE 2		910	*1-566-940-11	BUS BAR 6P	
112	*4-922-540-01	BRACKET, TERMINAL		911	*A-4651-178-A	MOUNTED PCB, AUDIO	
113	7-688-005-01	W 5, SMALL		913	*1-566-959-11	BAR, BUS	
114	*4-923-529-01	PLATE, SHIELD		T901 A.1-449-078-11	(US,Canadian)...TRANSFORMER, POWER		
115	7-682-548-09	SCREW (3X8)		T901 A.1-449-079-11	(AEP,UK).....TRANSFORMER, POWER		
116	7-682-147-15	SCREW, TR		T902 A.1-449-081-11	(US,Canadian)...TRANSFORMER, POWER		
117	7-682-552-09	SCREW +B 3X16		T902 A.1-449-082-11	(AEP,UK).....TRANSFORMER, POWER		

(4)

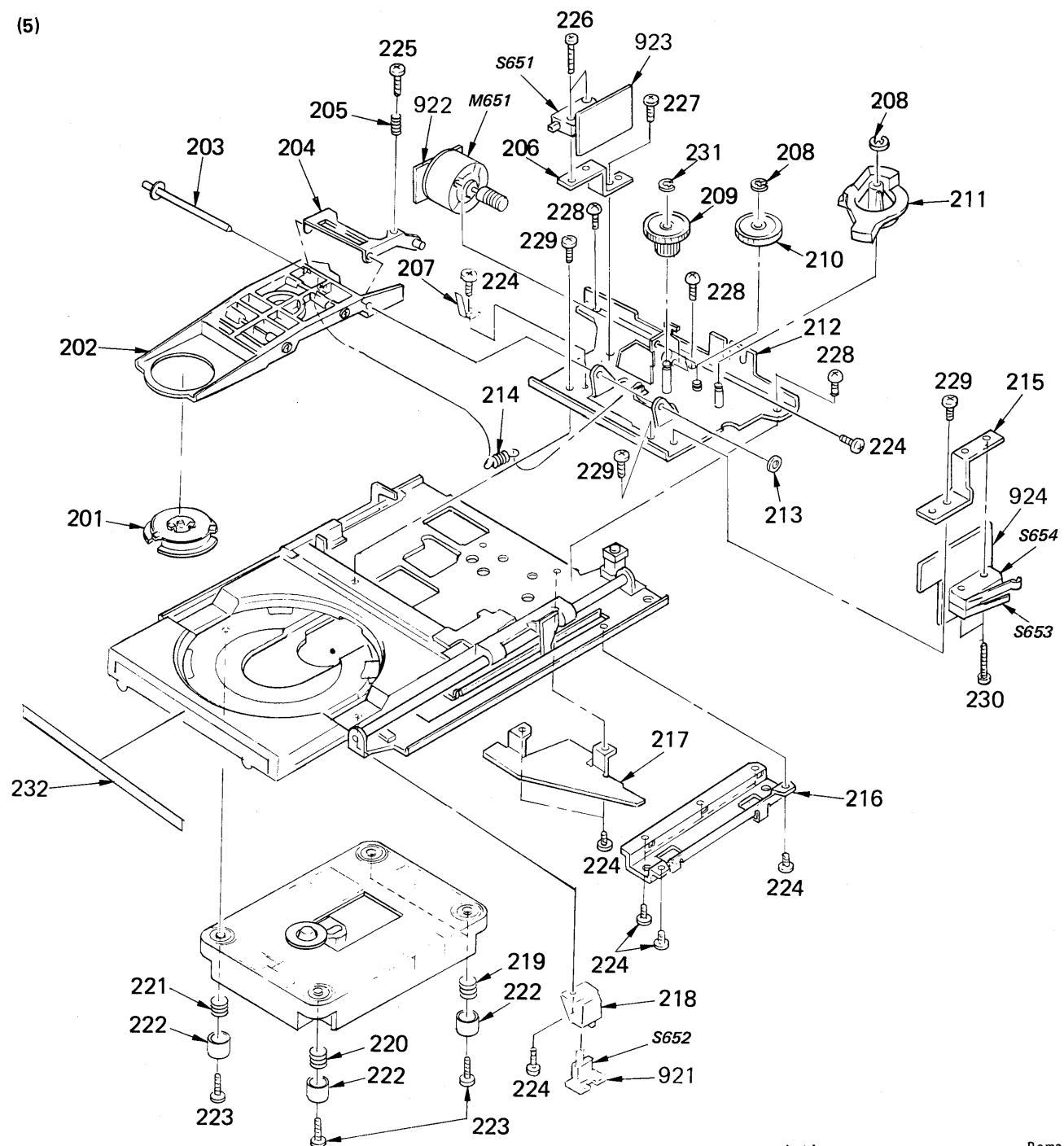


The components identified by shading and mark A are critical for safety. Replace only with part number specified.

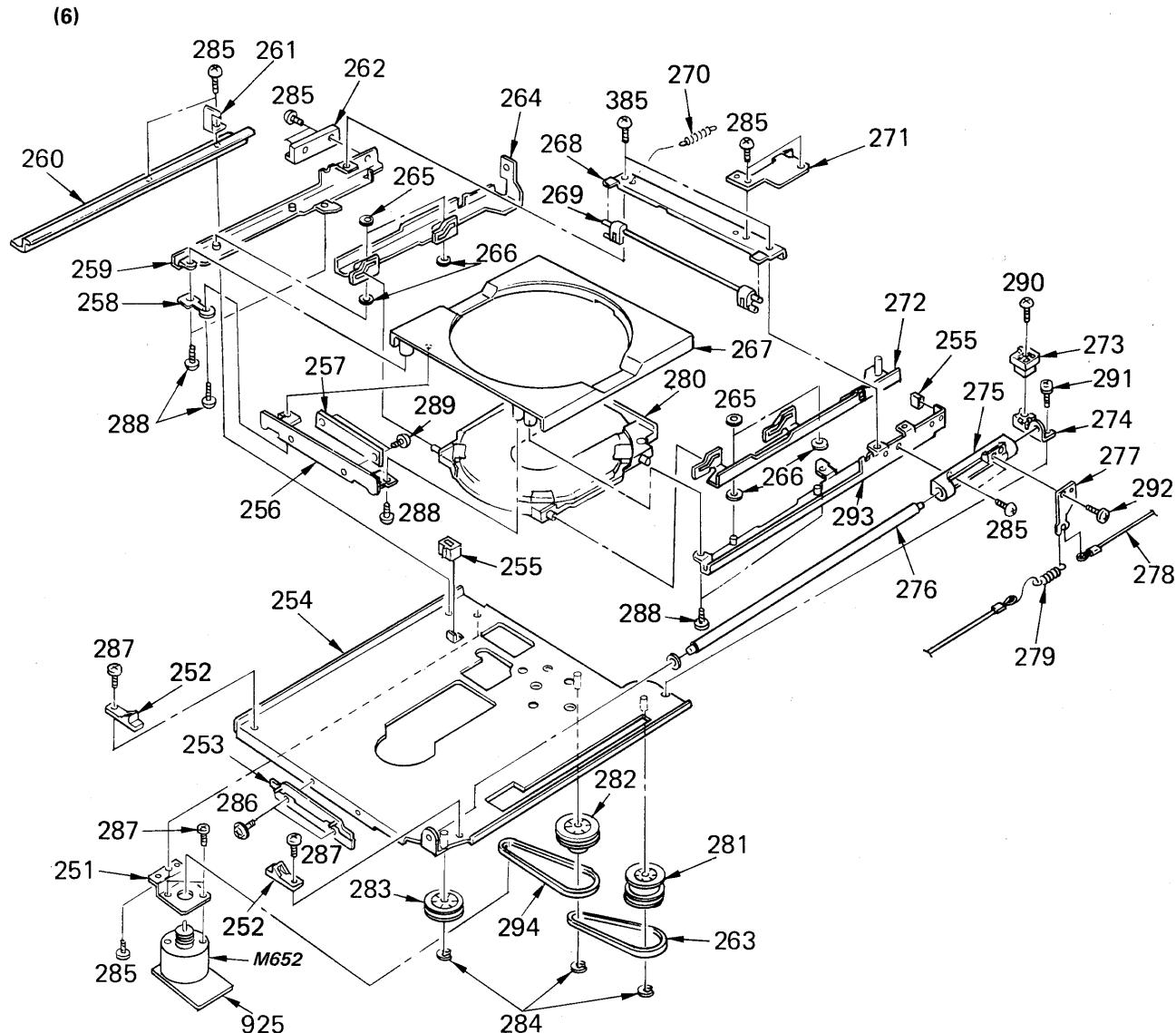
Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	*4-922-503-12 *4-922-503-22 *4-922-503-32 *4-922-503-42	(US).....PANEL, BACK (Canadian)....PANEL, BACK (UK).....PANEL, BACK (AEP).....PANEL, BACK		165	*4-923-531-02	DUMPER (B)	
				168	7-682-548-09	SCREW (3X8)	
				169	4-923-579-01	CUSHION (D)	
				170	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
				172	3-703-685-21	SCREW (+BV 3X8)	
152	*4-913-152-01	ESCUOTHEON, D/O		173	7-621-775-10	SCREW, +B 2.6X4, PAWL	
153	4-922-580-02	SPRING (TOP PLATE)		181	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
154	*4-923-538-01	CUSHION (A)		182	*4-923-543-01	CUSHION (B)	
155	*4-922-534-01	PLATE, SHIELD		183	7-685-870-01	SCREW +BVTT 3X5 (S)	
156	4-923-520-01	KNOB, POWER		912	*1-624-556-11	PC BOARD, (S) SERVO	
157	*4-923-521-01	LEVER, POWER SWITCH		914	1-533-183-11	HOLDER, FUSE	
158	*4-922-561-11 *4-922-561-21	(US,Canadian)...BRACKET (POWER) (AEP,UK).....BRACKET (POWER)		915	*1-624-565-11	PC BOARD, HEADPHONE ANPLIFIER	
				916	*1-624-557-11	PC BOARD, POWER	
159	2-231-019-00 4-916-783-01	(AEP,UK).....CLAMPER, CORD (US,Canadian)...BUSHING, CORD		917	△ .1-555-795-00 △ .1-556-035-00 △ .1-559-479-11	(AEP).....CORD, POWER (UK).....CORD, POWER (US,Canadian)...CORD, POWER	
160	*4-923-530-01	DUMPER (A)		918	*1-624-558-11	PC BOARD, COAX D/O	
161	*4-922-560-01	COVER, INSULATING		919	*1-624-559-11	PC BOARD, OPT D/O	
162	*4-922-562-02	BRACKET (TRANSFORMER)		920	*1-535-688-11	TERMINAL	
163	*4-922-552-01	HOLDER (B), HARNESS		928	1-464-878-11	TRANSMITTER UNIT, RAY	
164	3-701-946-22 *3-703-948-13	(US,Canadian)...LABEL, FUSE (AEP,UK).....LABEL, FUSE		F701	△ .1-532-215-00 F701 △ .1-532-824-11	(AEP,UK).....FUSE, TIME-LAG (T0.8A) (US,Canadian)...FUSE, GLASS TUBE (1.6A)	

(5)

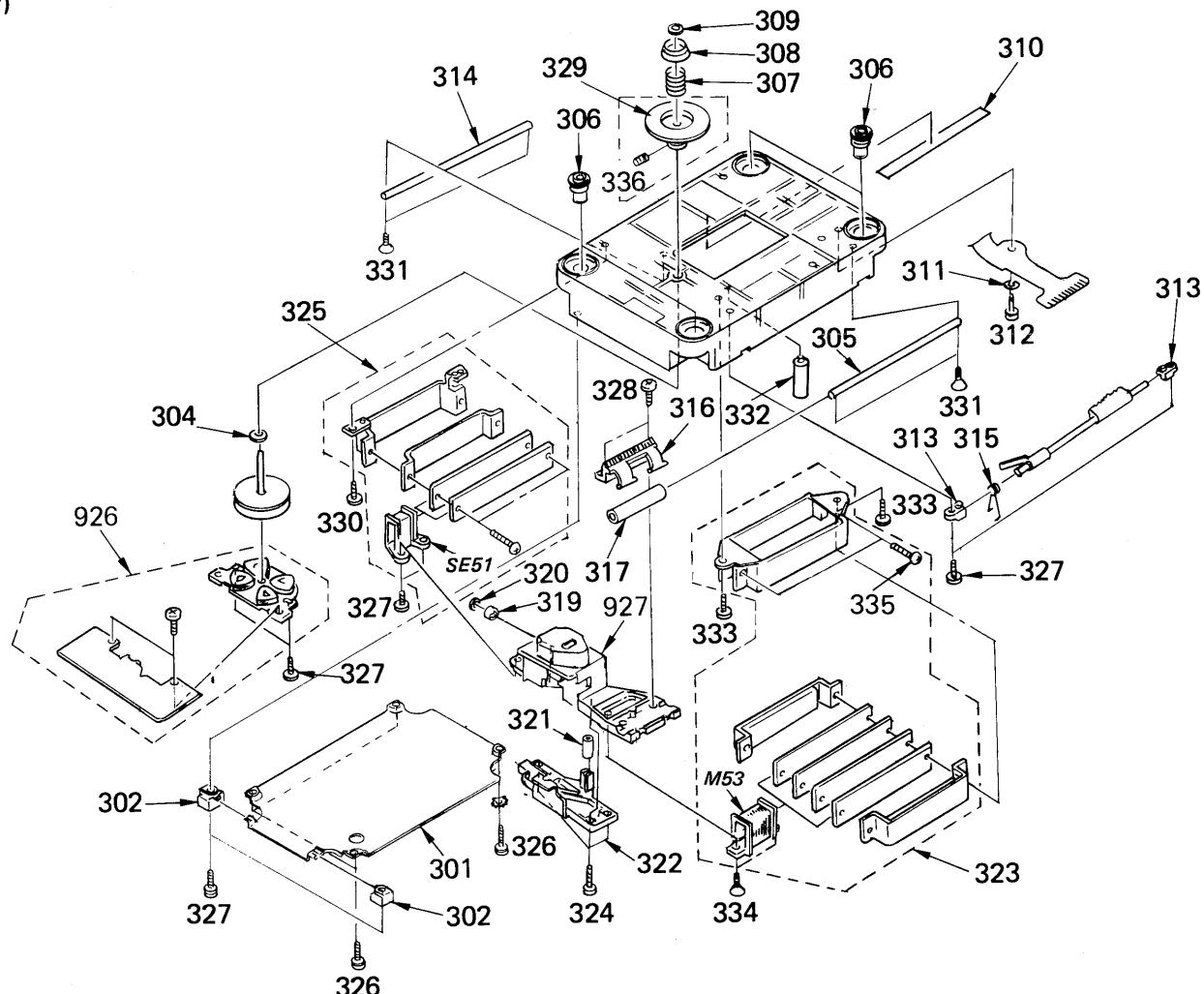


No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201	A-4675-235-A	PULLEY ASSY, PRESS		223	7-686-529-01	SCREW, TOTSU PSW 3X10	
202	*X-4912-509-1	ARM ASSY, C		224	7-621-775-00	SCREW +B 2.6X3	
203	4-908-513-01	SHAFT, FULCRUM, C ARM		225	7-621-775-80	SCREW +B 2.6X16	
204	X-4908-513-1	PLATE ASSY, ADJUSTMENT, ARM		226	7-685-864-01	SCREW +BVTT 2.6X10 (S)	
205	4-908-559-01	SPRING, COMPRESSION		227	7-682-646-09	SCREW +PS 3X5	
206	*4-912-543-01	BRACKET (D), SWITCH		228	7-685-870-01	SCREW +BVTT 3X5 (S)	
207	*4-912-569-11	PLATE (B), GROUND		229	7-682-544-09	SCREW +B 3X3	
208	7-624-106-04	STOP RING 3.0, TYPE -E		230	7-621-257-85	SCREW +P 2.3X14	
209	4-912-514-01	GEAR (A)		231	7-624-109-04	STOP RING 5.0, TYPE -E	
210	4-912-525-01	GEAR (B)		232	*4-912-589-01	CUSHION	
211	4-912-528-01	GEAR, CAM		921	*1-624-378-11	PC BOARD, OUT SW	
212	*X-4912-503-1	CHASSIS ASSY, SUB		922	*1-624-379-11	PC BOARD, C.MOTOR	
213	4-912-593-01	WASHER		923	*1-624-377-11	PC BOARD, IN SW	
214	4-908-555-01	SPRING, TENSION (C ARM)		924	*1-624-375-11	PC BOARD, L/C SW	
215	*4-912-524-01	BRACKET (A), SWITCH		925	*1-624-376-11	PC BOARD, L.MOTOR	
216	*4-912-580-01	COVER, ROPE		M651	X-4902-019-1	MOTOR ASSY, CHUCKING	
217	*4-908-597-01	COVER, BELT		M652	A-4608-303-A	MOTOR ASSY, LOADING	
218	*4-912-588-01	HOLDER (OUT SW)		S651	1-554-205-00	SWITCH, PUSH (LOAD IN DET)	
219	4-912-577-01	SPRING (H), COMPRESSION		S652	1-571-300-11	SWITCH, ROTARY (LOAD OUT DET)	
220	4-912-575-01	SPRING (F), COMPRESSION		S653	1-553-636-00	SWITCH, MICRO (MOTOR SELECT)	
221	4-912-576-01	SPRING (C), COMPRESSION		S654	1-570-447-11	SWITCH, MICRO (CHUCKING)	
222	4-912-578-01	HOLDER, SP					



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
251	*4-908-523-01	BRACKET, MOTOR		274	*4-912-519-01	RETAINER (RIGHT), SHAFT	
252	4-908-540-01	GUIDE, ASSIST		275	4-912-538-01	BEARING (RIGHT), GUIDE	
253	*X-4912-508-1	BRACKET ASSY, TABLE		276	4-912-521-11	SHAFT (RIGHT), GUIDE	
254	*X-4912-516-1	CHASSIS ASSY, MECHANICAL		277	*4-912-520-01	BRACKET, ROPE	
255	4-887-175-00	RUBBER, STOPPER		278	4-912-517-01	ROPE	
256	*4-912-579-01	BRACKET (LP)		279	4-908-553-01	SPRING, COMPRESSION (ROPE)	
257	*4-912-544-01	PLATE, FIXED		280	*X-4912-515-1	PLATE ASSY, DISK	
258	*4-912-568-01	PLATE (A), GROUND		281	4-908-525-01	PULLEY (C)	
259	*X-4912-504-1	BRACKET (LEFT) ASSY, TABLE		282	4-908-519-01	PULLEY (A)	
260	*4-912-529-01	GUIDE, LOADING		283	4-908-524-01	PULLEY (B)	
261	*4-912-527-01	RETAINER, TABLE		284	7-624-106-04	STOP RING 3.0, TYPE -E	
262	*4-912-534-01	GUIDE, SUB		285	7-685-870-01	SCREW +BVTT 3X5 (S)	
263	3-671-077-00	BELT, FF		286	7-621-759-60	+PSW, 2.6X8	
264	*4-912-583-01	SLIDER (CAM LEFT)		287	7-621-775-00	SCREW +B 2.6X3	
265	3-558-708-21	WASHER, STOPPER		288	7-685-646-79	SCREW +BVTP 3X8 TYPE2 SLIT	
266	3-701-439-11	WASHER		289	7-621-259-35	SCREW +BVTT 2.6X5 (S)	
267	*4-912-585-01	TABLE, DISK		290	7-682-152-01	SCREW +BVTT 3X16 (S)	
268	*4-912-532-01	REINFORCEMENT, TABLE		291	7-682-646-09	SCREW +PS 3X5	
269	4-908-534-01	LEVER, FUNCTION		292	7-685-132-19	SCREW +BTP 2.6X5 TYPE2 N-S	
270	4-912-516-01	SPRING (DISK CAM), TENSION		293	*X-4912-505-1	BRACKET (RIGHT) ASSY, TABLE	
271	*4-912-522-01	PLATE, SW		294	4-908-591-01	BELT, DRIVING	
272	*X-4912-514-1	SLIDER (CAM RIGHT) ASSY		295	*4-912-587-01	CUSHION	
273	*4-912-513-01	STOPPER, TABLE					

(7)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
301	*4-921-829-01	COVER, MECHANICAL BASE		322	4-921-827-01	COVER, SLIDE BASE	
302	*4-921-823-01	HOLDER		323	A-4608-347-A	MOTOR ASSY	
303	7-623-421-07	LW 2.6, TYPE B		324	7-621-255-10	SCREW +P 2X3	
304	3-701-439-21	WASHER		325	A-4675-229-A	SENSOR ASSY	
305	4-921-821-01	SHAFT (B), SLIDE		326	7-621-284-20	SCREW +P 2.6X6	
306	4-921-816-01	INSULATOR		327	7-621-773-95	SCREW +B 2.6X6	
307	4-908-213-01	SPRING, COMPRESSION		328	7-621-775-10	SCREW +B 2.6X4	
308	4-915-217-01	CAP, CENTERING		329	*X-4908-219-1	PULLEY ASSY, DISK	
309	3-558-708-21	WASHER, STOPPER		330	7-682-545-09	SCREW +B 3X4	
310	9-911-838-XX	CUSHION		331	7-682-248-09	SCREW +K 3X8	
311	7-688-001-01	W 2, SMALL		332	X-4908-221-1	CAM ASSY, LOCK	
312	7-628-253-10	SCREW +PS 2X5		333	7-682-546-09	SCREW +B 3X5	
313	4-908-220-01	HOLDER, ROD		334	7-621-559-30	SCREW +K 2.6X5	
314	4-921-822-01	SHAFT (A), SLIDE		335	7-621-259-70	SCREW +P 2.6X12	
315	4-921-817-01	SPRING		336	7-621-734-09	SET-SCT, HEX. 2.6X3	
316	4-921-826-01	HOLDER, BEARING		926	A-4675-231-A	STATOR ASSY	
317	4-908-221-01	BEARING		927	A-8-848-083-01	PICKUP, OPTICAL KSS-190A	
319	4-908-208-01	BEARING (NO-FLANGE), BALL		M53	1-422-197-21	COIL (DRIVE)	
320	7-624-105-04	STOP RING 2.3, TYPE -E		SE51	1-422-198-21	COIL (SENSOR)	
321	*4-921-819-01	TUBE, RUBBER					

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.

## SECTION 5

### ELECTRICAL PARTS LIST

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- 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:  $\mu$ F, PF:  $\mu\mu$ F.**RESISTORS**

- All resistors are in ohms.

- F: nonflammable

**COILS**

- MMH: mH, UH:  $\mu$ H

**SEMICONDUCTORS**

In each case, U:  $\mu$ , for example:  
 UA...:  $\mu$ A..., UPA...:  $\mu$ PA...,  
 UPC...:  $\mu$ PC, UPD...:  $\mu$ 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.

Ref.No.	Part No.	Description				
Ref.No.	Part No.	Description				
901	*1-624-562-11	PC BOARD, VOLUME		C156	1-161-375-00	CERAMIC
902	*1-624-548-11	PC BOARD, HEADPHONE		C201	1-124-478-11	ELECT
903	*1-624-547-11	PC BOARD, REMOCOM SENSOR (B)		C202	1-124-478-11	ELECT
904	*A-4655-059-A	OUNTED PCB, DISPLAY		C203	1-136-165-00	FILM
905	*1-624-564-11	PC BOARD, MOTOR		C204	1-136-165-00	FILM
906	*A-4619-303-A	OUNTED PCB, DIGITAL SERVO		C205	1-130-471-00	MYLAR
907	*1-624-563-11	PC BOARD, TRANSLATION		C206	1-130-471-00	MYLAR
908	*1-624-561-11	PC BOARD, VAR LINE OUTPUT		C207	1-136-165-00	FILM
909	*1-624-560-11	PC BOARD, FIXED LINE OUTPUT		C208	1-130-481-00	MYLAR
910	*1-566-940-11	BUS BAR 6P		C209	1-136-168-00	FILM
911	*A-4651-178-A	OUNTED PCB, AUDIO		C210	1-136-165-00	FILM
912	*1-624-556-11	PC BOARD, (S) SERVO		C211	1-136-165-00	FILM
913	*1-566-959-11	BAR, BUS		C212	1-124-478-11	ELECT
914	1-533-183-11	HOLDER, FUSE		C213	1-124-478-11	ELECT
915	*1-624-565-11	PC BOARD, HEADPHONE ANPLIFIER		C215	1-136-169-00	FILM
916	*1-624-557-11	PC BOARD, POWER		C216	1-136-159-00	FILM
917	1-555-795-00	(AEP).....CORD, POWER		C217	1-136-165-00	FILM
	1-556-035-00	(UK).....CORD, POWER		C218	1-123-382-00	ELECT
	1-559-479-11	(US,Canadian)...CORD, POWER		C219	1-136-159-00	FILM
918	*1-624-558-11	PC BOARD, COAX D/O		C220	1-136-165-00	FILM
919	*1-624-559-11	PC BOARD, OPT D/O		C221	1-130-479-00	MYLAR
920	*1-535-688-11	TERMINAL		C222	1-123-380-00	ELECT
921	*1-624-378-11	PC BOARD, OUT SW		C223	1-123-369-00	ELECT
922	*1-624-379-11	PC BOARD, C.MOTOR		C224	1-123-332-00	ELECT
923	*1-624-377-11	PC BOARD, IN SW		C225	1-130-471-00	MYLAR
924	*1-624-375-11	PC BOARD, L/C SW		C226	1-162-282-31	CERAMIC
925	*1-624-376-11	PC BOARD, L.MOTOR		C227	1-123-330-00	ELECT
926	A-4675-231-A	STATOR ASSY		C229	1-136-153-00	FILM
927	1-848-083-01	PICKUP, OPTICAL KSS-190A		C230-1	1-123-330-00	ELECT
928	1-464-878-11	TRANSMITTER UNIT, RAY		C230-2	1-124-443-00	ELECT
C102	1-126-101-11	ELECT	100MF	C231	1-123-330-00	ELECT
C106	1-123-332-00	ELECT	47MF	C303	1-136-153-00	FILM
C108	1-136-159-00	FILM	0.033MF	C304	1-131-345-00	TANTALUM
C110	1-123-330-00	ELECT	22MF	C305	1-136-159-00	FILM
C111	1-136-159-00	FILM	0.033MF	C306	1-123-330-00	ELECT
C112	1-136-153-00	FILM	0.01MF	C351	1-124-479-11	ELECT
C113	1-123-330-00	ELECT	22MF	C352	1-130-475-00	MYLAR
C115	1-130-475-00	MYLAR	0.0022MF	C353	1-123-330-00	ELECT
C116	1-130-481-00	MYLAR	0.0068MF	C354	1-136-165-00	FILM
C117	1-131-345-00	TANTALUM	0.47MF	C355	1-136-165-00	FILM
C151	1-161-494-00	CERAMIC	0.022MF	C356	1-136-165-00	FILM
C152	1-161-494-00	CERAMIC	0.022MF	C357	1-136-165-00	FILM
C153	1-124-477-11	ELECT	47MF	C358	1-136-165-00	FILM
C154	1-124-477-11	ELECT	47MF	C401	1-162-179-11	CERAMIC
C155	1-161-375-00	CERAMIC	0.0022MF	C402	1-107-206-00	MICA

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
C403	1-107-336-11	MICA	13PF	50%	500V	C531	1-136-592-11	FILM	0.003MF	1%	100V
C405	1-124-628-11	ELECT	220MF	20%	100V	C532	1-107-335-11	MICA	180PF	50%	500V
C406	1-124-628-11	ELECT	220MF	20%	100V	C533	1-107-210-00	MICA	22PF	5%	500V
C407	1-126-103-11	ELECT	470MF	20%	16V	C534	1-136-590-11	FILM	10MF	10%	200V
C408	1-126-103-11	ELECT	470MF	20%	16V	C536	1-136-594-11	FILM	0.018MF	1%	100V
C409	1-162-179-11	CERAMIC	0.1MF		50V	C539	1-162-179-11	CERAMIC	0.1MF		50V
C411	1-162-179-11	CERAMIC	0.1MF		50V	C540	1-162-179-11	CERAMIC	0.1MF		50V
C412	1-162-179-11	CERAMIC	0.1MF		50V	C541	1-162-179-11	CERAMIC	0.1MF		50V
C413	1-123-380-00	ELECT	1MF	20%	50V	C542	1-162-179-11	CERAMIC	0.1MF		50V
C415	1-123-382-00	ELECT	3.3MF	20%	50V	C543	1-162-179-11	CERAMIC	0.1MF		50V
C416	1-162-179-11	CERAMIC	0.1MF		50V	C544	1-162-179-11	CERAMIC	0.1MF		50V
C417	1-162-179-11	CERAMIC	0.1MF		50V	C545	1-126-048-11	ELECT	10MF	20%	50V
C418	1-162-179-11	CERAMIC	0.1MF		50V	C546	1-126-048-11	ELECT	10MF	20%	50V
C419	1-162-179-11	CERAMIC	0.1MF		50V	C549	1-104-300-11	POLYSTYRENE	820PF	5%	50V
C420	1-162-179-11	CERAMIC	0.1MF		50V	C550	1-136-583-11	FILM	1MF	10%	200V
C421	1-123-382-00	ELECT	3.3MF	20%	50V	C601	1-130-471-00	MYLAR	0.001MF	5%	50V
C422	1-104-317-11	POLYSTYRENE	180PF	5%	125V	C602	1-130-471-00	MYLAR	0.001MF	5%	50V
C424	1-162-179-11	CERAMIC	0.1MF		50V	C651	1-136-157-00	FILM	0.022MF	5%	50V
C425	1-162-179-11	CERAMIC	0.1MF		50V	C652	1-136-157-00	FILM	0.022MF	5%	50V
C426	1-107-334-11	MICA	5PF		500V	C653	1-136-157-00	FILM	0.022MF	5%	50V
C427	1-136-593-11	FILM	0.0033MF	1%	100V	C654	1-136-157-00	FILM	0.022MF	5%	50V
C428	1-136-593-11	FILM	0.0033MF	1%	100V	C655	1-136-157-00	FILM	0.022MF	5%	50V
C429	1-162-179-11	CERAMIC	0.1MF		50V	C701	1-126-101-11	ELECT	100MF	20%	10V
C430	1-162-179-11	CERAMIC	0.1MF		50V	C702	1-126-101-11	ELECT	100MF	20%	10V
C431	1-136-592-11	FILM	0.003MF	1%	100V	C703	1-124-699-31	ELECT	220MF	20%	25V
C432	1-107-335-11	MICA	180PF	50%	500V	C704	1-124-699-31	ELECT	220MF	20%	25V
C433	1-107-210-00	MICA	22PF	5%	500V	C705	1-124-699-31	ELECT	220MF	20%	25V
C434	1-136-590-11	FILM	10MF	10%	200V	C706	1-124-699-31	ELECT	220MF	20%	25V
C436	1-136-594-11	FILM	0.018MF	1%	100V	C707	1-162-290-31	CERAMIC	470PF	10%	50V
C445	1-126-048-11	ELECT	10MF	20%	50V	C708	1-162-290-31	CERAMIC	470PF	10%	50V
C446	1-126-048-11	ELECT	10MF	20%	50V	C709-1	1-124-721-31	ELECT	10MF	20%	50V
C447	1-162-191-31	CERAMIC	2.2PF	10%	50V	△C709-2	1-161-744-00	CERAMIC	0.01MF		400V
C448	1-162-191-31	CERAMIC	2.2PF	10%	50V	C710-1	1-124-721-31	ELECT	10MF	20%	50V
C449	1-104-300-11	POLYSTYRENE	820PF	5%	50V	△C710-2	1-162-578-00	(AEP,UK)...CERAMIC	0.0047MF	20%	400V
C450	1-136-583-11	FILM	1MF	10%	200V	△C710-2	1-161-744-00	(US,Canadian)	...CERAMIC	0.01MF	400V
C460	1-162-179-11	CERAMIC	0.1MF		50V	C711	1-162-179-11	CERAMIC	0.1MF		50V
C461	1-162-179-11	CERAMIC	0.1MF		50V	△C712	1-161-742-00	CERAMIC	0.0022MF	20%	400V
C462	1-102-508-00	CERAMIC	10PF		50V	△C713	1-161-742-00	CERAMIC	0.0022MF	20%	400V
C509	1-162-179-11	CERAMIC	0.1MF		50V	△C714	1-161-742-00	CERAMIC	0.0022MF	20%	400V
C511	1-162-179-11	CERAMIC	0.1MF		50V	△C715	1-161-742-00	CERAMIC	0.0022MF	20%	400V
C512	1-162-179-11	CERAMIC	0.1MF		50V	C716	1-136-177-00	FILM	1MF	5%	50V
C513	1-123-380-00	ELECT	1MF	20%	50V	C717	1-162-179-11	CERAMIC	0.1MF		50V
C515	1-123-382-00	ELECT	3.3MF	20%	50V	C750	1-162-179-11	CERAMIC	0.1MF		50V
C516	1-162-179-11	CERAMIC	0.1MF		50V	C751	1-162-179-11	CERAMIC	0.1MF		50V
C517	1-162-179-11	CERAMIC	0.1MF		50V	C801	1-124-225-00	ELECT	100MF	20%	6.3V
C518	1-162-179-11	CERAMIC	0.1MF		50V	C802	1-162-179-11	CERAMIC	0.1MF		50V
C519	1-162-179-11	CERAMIC	0.1MF		50V	C803	1-161-494-00	CERAMIC	0.022MF		25V
C520	1-162-179-11	CERAMIC	0.1MF		50V	C821	1-123-335-00	ELECT	330MF	20%	25V
C521	1-123-382-00	ELECT	3.3MF	20%	50V	C822	1-123-335-00	ELECT	330MF	20%	25V
C522	1-104-317-11	POLYSTYRENE	180PF	5%	125V	C823	1-123-335-00	ELECT	330MF	20%	25V
C524	1-162-179-11	CERAMIC	0.1MF		50V	C824	1-124-636-00	ELECT	3300MF	20%	25V
C525	1-162-179-11	CERAMIC	0.1MF		50V	C873	1-126-244-51	ELECT	47000MF		5.5V
C526	1-107-334-11	MICA	5PF		500V	C921	1-123-335-00	ELECT	330MF	20%	25V
C527	1-136-593-11	FILM	0.0033MF	1%	100V	C924	1-124-636-00	ELECT	3300MF	20%	25V
C528	1-136-593-11	FILM	0.0033MF	1%	100V	C1001	1-136-153-00	FILM	0.01MF	5%	50V
C529	1-162-179-11	CERAMIC	0.1MF		50V	C1002	1-126-314-11	ELECT	12000MF	20%	16V
C530	1-162-179-11	CERAMIC	0.1MF		50V						

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description			
C1003	1-126-314-11	ELECT	12000MF	20%	16V	CNJ715*1-564-338-81	PIN, CONNECTOR 4P	
C1004	1-124-484-11	ELECT	220MF	20%	35V	CNJ716*1-564-339-61	PIN, CONNECTOR 5P	
C1005	1-124-484-11	ELECT	220MF	20%	35V	CNJ717*1-564-340-00	PIN, CONNECTOR 6P	
C1006	1-124-484-11	ELECT	220MF	20%	35V	CNJ718*1-564-340-00	PIN, CONNECTOR 6P	
C1007	1-124-484-11	ELECT	220MF	20%	35V	CNJ719*1-564-340-00	PIN, CONNECTOR 6P	
C1008	1-123-361-00	ELECT	220MF	20%	50V	CNJ721*1-564-342-11	PIN, CONNECTOR 8P	
C1009	1-123-361-00	ELECT	220MF	20%	50V	CNJ722*1-564-337-00	PIN, CONNECTOR 3P	
C1010	1-136-177-00	FILM	1MF	5%	50V	CNJ723*1-564-506-11	PLUG, CONNECTOR 3P	
C1011	1-123-379-00	ELECT	0.47MF	20%	50V	CNJ724*1-564-506-11	PLUG, CONNECTOR 3P	
C1012	1-126-048-11	ELECT	10MF	20%	50V	CNJ725*1-564-706-41	PIN, CONNECTOR (SMALL TYPE) 4P	
C1013	1-130-471-00	MYLAR	0.001MF	5%	50V	CNJ726*1-564-988-11	PIN, CONNECTOR 14P	
C1011	1-136-153-00	FILM	0.01MF	5%	50V	CNJ727*1-564-988-11	PIN, CONNECTOR 14P	
C1102	1-136-177-00	FILM	1MF	5%	50V	CNJ728*1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
C1103	1-126-129-11	ELECT	6800MF	20%	35V	CNJ731*1-564-507-11	PLUG, CONNECTOR 4P	
C1104	1-126-129-11	ELECT	6800MF	20%	35V	CNJ733 1-564-519-11	PLUG, CONNECTOR 4P	
C1105	1-124-484-11	ELECT	220MF	20%	35V	CNJ734*1-564-506-11	PLUG, CONNECTOR 3P	
C1106	1-124-484-11	ELECT	220MF	20%	35V	CNJ735*1-564-507-11	PLUG, CONNECTOR 4P	
C1109	1-107-210-00	MICA	22PF	5%	500V	CNJ736*1-564-507-41	PLUG, CONNECTOR 4P	
C1110	1-107-210-00	MICA	22PF	5%	500V	CNJ737*1-564-508-11	PLUG, CONNECTOR 5P	
C1112	1-123-378-00	ELECT	1000MF	20%	63V	CNJ738*1-564-496-11	PIN, CONNECTOR 3P	
C1113	1-123-378-00	ELECT	1000MF	20%	63V	CNJ739 1-564-519-11	PLUG, CONNECTOR 4P	
C1114	1-126-103-11	ELECT	470MF	20%	16V	CNJ741*1-564-338-00	PIN, CONNECTOR 4P	
C1115	1-126-103-11	ELECT	470MF	20%	16V	CNP652*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
C1116	1-126-129-11	ELECT	6800MF	20%	35V	CNP653*1-564-336-61	PIN, CONNECTOR 2P	
C1117	1-126-129-11	ELECT	6800MF	20%	35V	CNP654*1-564-336-71	PIN, CONNECTOR 2P	
CN751	1-507-567-71	JACK, PIN 1P (DIGITAL OUT COAXIAL)				CNP656*1-564-337-51	PIN, CONNECTOR 3P	
CN752	1-506-348-XX	(AEP,UK).....3P PLUG (L)				CP101	1-233-132-11	COMPOSITION CIRCUIT BLOCK
CN752	*1-506-371-00	(US,Canadian)...2P PLUG (L)				CP401	1-233-113-11	COMPOSITION CIRCUIT BLOCK
CN753	1-506-348-XX	(AEP,UK).....3P PLUG (L)				CP402	1-233-113-11	COMPOSITION CIRCUIT BLOCK
CN753	*1-506-371-00	(US,Canadian)...2P PLUG (L)				CP403	1-233-113-11	COMPOSITION CIRCUIT BLOCK
CN1301	1-507-898-11	JACK, PIN 2P (LINE OUT VARIABLE)				CP404	1-233-113-11	COMPOSITION CIRCUIT BLOCK
CN1302	1-507-898-11	JACK, PIN 2P (LINE OUT FKED)				CP405	1-233-113-11	COMPOSITION CIRCUIT BLOCK
CNJ110*1-562-883-11		SOCKET, CONNECTOR 20P				CP406	1-233-113-11	COMPOSITION CIRCUIT BLOCK
CNJ151*1-564-706-41		PIN, CONNECTOR (SMALL TYPE) 4P				CP407	1-233-115-11	COMPOSITION CIRCUIT BLOCK
CNJ252*1-564-706-41		PIN, CONNECTOR (SMALL TYPE) 4P				CP408	1-233-114-11	COMPOSITION CIRCUIT BLOCK
CNJ255*1-564-339-61		PIN, CONNECTOR 5P				CP501	1-233-113-11	COMPOSITION CIRCUIT BLOCK
CNJ256*1-564-706-41		PIN, CONNECTOR (SMALL TYPE) 4P				CP502	1-233-113-11	COMPOSITION CIRCUIT BLOCK
CNJ401	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P				CP503	1-233-113-11	COMPOSITION CIRCUIT BLOCK
CNJ402*1-564-507-11		PLUG, CONNECTOR 4P				CP504	1-233-113-11	COMPOSITION CIRCUIT BLOCK
CNJ403*1-564-505-31		PLUG, CONNECTOR 2P				CP505	1-233-113-11	COMPOSITION CIRCUIT BLOCK
CNJ404*1-564-505-11		PLUG, CONNECTOR 2P				CP506	1-233-113-11	COMPOSITION CIRCUIT BLOCK
CNJ503*1-564-505-31		PLUG, CONNECTOR 2P				CP507	1-233-115-11	COMPOSITION CIRCUIT BLOCK
CNJ504*1-564-505-11		PLUG, CONNECTOR 2P				CP508	1-233-114-11	COMPOSITION CIRCUIT BLOCK
CNJ701*1-564-505-11		PLUG, CONNECTOR 2P				CP801	1-232-976-11	COMPOSITION CIRCUIT BLOCK
CNJ702*1-564-505-41		PLUG, CONNECTOR 2P				D101	8-719-940-76	DIODE 1SS132
CNJ703*1-564-506-11		PLUG, CONNECTOR 3P				D101	8-719-940-76	DIODE 1SS132
CNJ704*1-564-338-00		PIN, CONNECTOR 4P				D351	8-719-940-76	DIODE 1SS132
CNJ705*1-564-340-00		PIN, CONNECTOR 6P				D401	8-719-951-13	DIODE HZ5CLL
CNJ707*1-535-116-00		TERMINAL				D402	8-719-942-32	DIODE HZ3BLL
CNJ708*1-535-116-00		TERMINAL				D403	8-719-942-32	DIODE HZ3BLL
CNJ709*1-535-116-00		TERMINAL				D501	8-719-951-13	DIODE HZ5CLL
CNJ710*1-564-336-00		PIN, CONNECTOR 2P				D651	8-719-200-02	DIODE 10E-2
CNJ711*1-564-338-00		PIN, CONNECTOR 4P				D652	8-719-200-02	DIODE 10E-2
CNJ712*1-564-338-00		PIN, CONNECTOR 4P				D653	8-719-200-02	DIODE 10E-2
CNJ713*1-564-338-00		PIN, CONNECTOR 4P				D654	8-719-200-02	DIODE 10E-2
CNJ714*1-564-338-71		PIN, CONNECTOR 4P				D701	8-719-200-23	DIODE 11E2

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
D702	8-719-940-76	DIODE 1SS132	IC510	8-759-701-21	IC NJM5532D-D
D801	8-719-941-69	LED PG3668S	IC511	8-759-970-28	IC PCM64P
D802	8-719-939-85	LED AY3638S	IC512	8-759-905-42	IC NE5534P
D803	8-719-939-87	LED VR3638S	IC513	8-759-701-21	IC NJM5532D-D
D804	8-719-921-05	LED EBG5534S	IC514	8-759-905-42	IC NE5534P
D805	8-719-907-75	LED AA5534S	IC516	8-759-701-21	IC NJM5532D-D
D872	8-719-200-23	DIODE 11E2	IC601	8-759-947-22	IC CXD1144P
D1001	8-719-200-31	DIODE 21DQ05	IC603	8-759-202-14	IC TC74HC08P
D1002	8-719-200-31	DIODE 21DQ05	IC604	8-759-013-92	IC MC74HC164F
D1003	8-719-200-31	DIODE 21DQ05	IC605	8-759-205-05	IC TC74HC32F
D1004	8-719-200-31	DIODE 21DQ05	IC701	8-759-600-24	IC M54543L
D1005	8-719-940-76	DIODE 1SS132	IC702	8-759-701-21	IC NJM5532D-D
D1006	8-719-940-76	DIODE 1SS132	IC703	8-759-202-13	IC TC74HCU04P
D1007	8-719-934-23	DIODE HZS30-3L	IC801	8-752-803-68	IC CXP5058H-067
D1008	8-719-933-50	DIODE HZS7C2LT2	IC802	8-759-630-16	IC M50740A-424SP
D1009	8-719-200-23	DIODE 11E2	IC803	8-759-820-02	IC LC9600RM-145
D1010	8-719-200-23	DIODE 11E2	IC821	8-759-604-29	IC M5F7805
D1011	8-719-200-23	DIODE 11E2	IC822	8-759-604-29	IC M5F7805
D1012	8-719-200-23	DIODE 11E2	IC823	8-759-606-02	IC M5278L56
D1013	8-719-200-23	DIODE 11E2	IC851	8-741-138-70	IC BX-1387
D1014	8-719-200-23	DIODE 11E2	IC921	8-759-604-47	IC M5F7905
D1101	8-719-200-68	DIODE C10P20FU	IC1001	8-759-803-41	IC LC4969
D1102	8-719-200-69	DIODE C10P20FUR	IC1101	8-759-604-39	IC M5F78M12
D1103	8-719-200-11	DIODE 10YD2.4A	IC1102	8-759-701-60	IC NJM79M12FA
D1104	8-719-200-11	DIODE 10YD2.4A	IC1103	8-719-902-56	DIODE PC817
D1106	8-719-940-76	DIODE 1SS132	IC1104	8-719-902-56	DIODE PC817
D1107	8-719-940-76	DIODE 1SS132	L701	8-1-421-340-00	LINE FILTER
D1108	8-719-940-76	DIODE 1SS132	L702	1-459-795-11	COIL (WITH CORE)
D1109	8-719-902-87	DIODE EQB01-08Q	L821	1-408-080-00	INDUCTOR 100UH
D1110	8-719-902-87	DIODE EQB01-08Q	M53	1-422-197-21	COIL (DRIVE)
F701	8-1-532-215-00	(AEP,UK).....FUSE, TIME-LAG (T0.8A)	M651	X-4902-019-1	MOTOR ASSY, CHUCKING
F701	8-1-532-824-11	(US,Canadian)...FUSE, GLASS TUBE (1.6A)	M652	A-4608-303-A	MOTOR ASSY, LOADING
FLD801	1-519-427-11	INDICATOR TUBE, FLUORESCENT	PS205A	8-1-532-675-00	(AEP,UK)...LINC, IC
H151	8-719-800-18	DIODE THS103A-1	PS206A	8-1-532-675-00	(AEP,UK)...LINC, IC
H152	8-719-800-18	DIODE THS103A-1	APS1001.1	8-1-532-675-00	(AEP,UK)...LINC, IC
HPJ701	1-507-796-61	JACK	Q101	8-729-103-43	TRANSISTOR 2SB734
IC101	8-752-031-80	IC CXA1081S	Q205	8-729-900-89	TRANSISTOR DTC144ES
IC151	8-759-202-01	IC TA7256P	Q206	8-729-900-80	TRANSISTOR DTC114ES
IC201	8-752-202-01	IC TA7256P	Q207	8-729-900-65	TRANSISTOR DTA144ES
IC202	8-759-805-18	IC LA6520	Q208	8-729-900-74	TRANSISTOR DTC143TS
IC204	8-752-032-33	IC CXA1182S	Q351	8-729-900-80	TRANSISTOR DTC114ES
IC301	8-759-971-41	IC MSM6408-27SS	Q352	8-729-900-80	TRANSISTOR DTC114ES
IC302	8-752-322-04	IC CXD1125Q	Q353	8-729-900-61	TRANSISTOR DTA114ES
IC303	8-752-320-44	IC CXK5816M-10L	Q354	8-729-900-89	TRANSISTOR DTC144ES
IC304	8-759-820-04	IC LC6523H-3446	Q403	8-729-200-55	FET 2SK241Y
IC404	8-759-202-13	IC TC74HCU04P	Q404	8-729-200-55	FET 2SK241Y
IC405	8-759-000-99	IC MC74HC74N	Q405	8-729-200-55	FET 2SK241Y
IC406	8-759-604-29	IC M5F7805	Q503	8-729-200-55	FET 2SK241Y
IC407	8-759-604-29	IC M5F7805	Q504	8-729-200-55	FET 2SK241Y
IC408	8-759-947-50	IC CXD1305S	Q505	8-729-200-55	FET 2SK241Y
IC410	8-759-701-21	IC NJM5532D-D	Q651	8-729-177-43	TRANSISTOR 2SD774
IC411	8-759-970-28	IC PCM64P	Q801	8-729-902-11	TRANSISTOR 2SC2021
IC412	8-759-905-42	IC NE5534P	Q802	8-729-900-80	TRANSISTOR DTC114ES
IC413	8-759-701-21	IC NJM5532D-D	Q803	8-729-900-80	TRANSISTOR DTC114ES
IC414	8-759-905-42	IC NE5534P	Q804	8-729-900-80	TRANSISTOR DTC114ES
IC416	8-759-701-21	IC NJM5532D-D	Q805	8-729-900-80	TRANSISTOR DTC114ES
IC508	8-759-947-50	IC CXD1305S			

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.

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
Q806	8-729-900-45	TRANSISTOR DTC114EF	R236	1-249-433-11	CARBON
Q1001	8-729-245-82	TRANSISTOR 2SC2458-Y	R237	1-249-441-11	CARBON
Q1002	8-729-103-43	TRANSISTOR 2SB734	R238	1-249-426-11	CARBON
Q1101	8-729-107-53	TRANSISTOR 2SC2275A	R239	1-249-441-11	CARBON
Q1102	8-729-167-62	TRANSISTOR 2SC2676	R240	1-249-417-11	CARBON
Q1103	8-729-113-82	TRANSISTOR 2SA1138	R241	1-249-429-11	CARBON
Q1104	8-729-118-52	TRANSISTOR 2SA985	R303	1-215-469-00	METAL
Q1105	8-729-113-82	TRANSISTOR 2SA1138	R304	1-215-469-00	METAL
Q1106	8-729-167-62	TRANSISTOR 2SC2676	R305	1-249-429-11	CARBON
Q1107	8-729-167-62	TRANSISTOR 2SC2676	R306	1-249-441-11	CARBON
Q1108	8-729-113-82	TRANSISTOR 2SA1138	R307	1-249-429-11	CARBON
Q1109	8-729-900-61	TRANSISTOR DTA114ES	R308	1-249-417-11	CARBON
Q1110	8-729-900-80	TRANSISTOR DTC114ES	R309	1-249-433-11	CARBON
R101	1-215-396-00	CARBON	R310	1-215-493-00	CARBON
R102	1-249-397-11	CARBON	R324	1-249-441-11	CARBON
R103	1-249-417-11	CARBON	R351	1-249-429-11	CARBON
R104	1-249-433-11	CARBON	R352-1	1-249-429-11	CARBON
R108	1-249-425-11	CARBON	R352-2	1-249-417-11	CARBON
R109	1-249-425-11	CARBON	R353	1-249-397-11	CARBON
R110	1-249-432-11	CARBON	R354	1-249-409-11	CARBON
R111	1-249-432-11	CARBON	R355	1-249-425-11	CARBON
R112	1-249-441-11	CARBON	R360	1-249-413-11	CARBON
R151	1-249-417-11	CARBON	R361	1-249-417-11	CARBON
R152	1-249-417-11	CARBON	R362	1-249-417-11	CARBON
R153	1-249-417-11	CARBON	R363	1-249-417-11	CARBON
R154	1-247-887-00	CARBON	R364	1-249-417-11	CARBON
R155	1-249-417-11	CARBON	R402	1-249-411-11	CARBON
R156	1-249-417-11	CARBON	R403	1-249-411-11	CARBON
R157	1-249-417-11	CARBON	R404	1-214-937-00	CARBON
R158	1-247-887-00	CARBON	R407	1-249-429-11	CARBON
R159	1-247-887-00	CARBON	R408	1-249-429-11	CARBON
R160	1-247-887-00	CARBON	R409	1-215-445-00	METAL
R161	1-249-405-11	CARBON	R410	1-215-445-00	METAL
R162	1-249-405-11	CARBON	R411	1-215-480-00	METAL
R201	1-249-393-11	CARBON	R412	1-215-480-00	METAL
R203	1-249-393-11	CARBON	R413	1-215-480-00	METAL
R205	1-247-885-00	CARBON	R414	1-215-480-00	METAL
R206	1-247-881-00	CARBON	R415	1-214-883-00	CARBON
R208	1-247-885-00	CARBON	R416	1-214-877-00	CARBON
R210	1-247-881-00	CARBON	R417	1-259-504-91	CARBON
R211	1-249-437-11	CARBON	R418	1-249-928-11	CARBON
R212	1-249-436-11	CARBON	R419	1-247-714-11	CARBON
R214	1-215-440-00	CARBON	R420	1-247-714-11	CARBON
R216	1-249-393-11	CARBON	R421	1-247-739-11	CARBON
R217	1-215-491-00	CARBON	R422	1-247-739-11	CARBON
R218	1-247-881-00	CARBON	R424	1-249-983-11	CARBON
R219	1-249-425-11	CARBON	R426	1-249-921-11	CARBON
R222	1-215-472-00	CARBON	R427	1-246-545-00	CARBON
R223	1-249-393-11	CARBON	R428	1-247-144-00	CARBON
R224	1-249-393-11	CARBON	R429	1-249-425-11	CARBON
R226	1-249-405-11	CARBON	R430	1-215-445-00	METAL
R228	1-215-486-00	CARBON	R431	1-215-477-00	METAL
R229	1-249-431-11	CARBON	R432	1-215-438-00	METAL
R230	1-249-439-11	CARBON	R433	1-249-423-11	CARBON
R231	1-249-440-11	CARBON	R434	1-215-452-00	CARBON
R232	1-249-429-11	CARBON	R436	1-249-409-11	CARBON
R233	1-249-414-11	CARBON	R440	1-249-409-11	CARBON
R235	1-215-434-00	CARBON			

Ref.No.	Part No.	Description		Ref.No.	Part No.	Description	
R441	1-249-404-00	CARBON	82 5% 1/4W	R812	1-249-432-11	CARBON	18K 5% 1/4W
R502	1-249-411-11	CARBON	330 5% 1/4W	R813	1-249-422-11	CARBON	2.7K 5% 1/4W
R503	1-249-411-11	CARBON	330 5% 1/4W	R814	1-249-424-11	CARBON	3.9K 5% 1/4W
R511	1-215-480-00	METAL	300K 1% 1/6W	R815	1-249-427-11	CARBON	6.8K 5% 1/4W
R512	1-215-480-00	METAL	300K 1% 1/6W	R816	1-249-432-11	CARBON	18K 5% 1/4W
R513	1-215-480-00	METAL	300K 1% 1/6W	R817	1-249-422-11	CARBON	2.7K 5% 1/4W
R514	1-215-480-00	METAL	300K 1% 1/6W	R818	1-249-424-11	CARBON	3.9K 5% 1/4W
R515	1-214-883-00	CARBON	6.2K 1% 1/2W	R819	1-249-427-11	CARBON	6.8K 5% 1/4W
R516	1-214-877-00	CARBON	3.6K 1% 1/2W	R820	1-249-422-11	CARBON	2.7K 5% 1/4W
R517	1-259-504-91	CARBON	620 1% 1/2W	R821	1-249-424-11	CARBON	3.9K 5% 1/4W
R518	1-249-928-11	CARBON	1.6K 1% 1/4W	R822	1-249-427-11	CARBON	6.8K 5% 1/4W
R519	1-247-714-11	CARBON	1.2K 1% 1/4W	R823	1-249-432-11	CARBON	18K 5% 1/4W
R520	1-247-714-11	CARBON	1.2K 1% 1/4W	R824	1-249-422-11	CARBON	2.7K 5% 1/4W
R521	1-247-739-11	CARBON	100 2% 1/2W	R825	1-249-424-11	CARBON	3.9K 5% 1/4W
R522	1-247-739-11	CARBON	100 2% 1/2W	R826	1-249-427-11	CARBON	6.8K 5% 1/4W
R524	1-249-983-11	CARBON	330K 1% 1/4W	R827	1-249-432-11	CARBON	18K 5% 1/4W
R526	1-249-921-11	CARBON	820 1% 1/4W	R828	1-249-422-11	CARBON	2.7K 5% 1/4W
R527	1-246-545-00	CARBON	1M 5% 1/4W	R829	1-249-424-11	CARBON	3.9K 5% 1/4W
R528	1-247-144-00	CARBON	3.6K 1% 1/4W	R830	1-249-427-11	CARBON	6.8K 5% 1/4W
R529	1-249-425-11	CARBON	4.7K 5% 1/4W	R831	1-249-432-11	CARBON	18K 5% 1/4W
R530	1-215-445-00	METAL	10K 1% 1/6W	R841	1-215-493-00	CARBON	1M 5% 1/4W
R531	1-215-477-00	METAL	220K 1% 1/6W	R851	1-249-429-11	CARBON	10K 5% 1/4W
R532	1-215-438-00	METAL	5.1K 1% 1/6W	R852	1-249-407-11	CARBON	150 5% 1/4W
R533	1-249-423-11	CARBON	3.3K 5% 1/4W	R853	1-249-408-11	CARBON	180 5% 1/4W
R534	1-215-452-00	CARBON	20K 5% 1/4W	R854	1-249-412-11	CARBON	390 5% 1/4W
R601	1-249-433-11	CARBON	22K 5% 1/4W	R855	1-249-406-11	CARBON	120 5% 1/4W
R602	1-249-433-11	CARBON	22K 5% 1/4W	R856	1-249-409-11	CARBON	220 5% 1/4W
R651	1-249-417-11	CARBON	1K 5% 1/4W	R875	1-249-405-11	CARBON	100 5% 1/4W
R652	1-249-417-11	CARBON	1K 5% 1/4W	R1001	1-212-877-11	FUSIBLE	68 5% 1/4W F
R701	1-247-700-11	CARBON	100 5% 1/4W	R1002	1-249-433-11	CARBON	22K 5% 1/4W
R702	1-247-700-11	CARBON	100 5% 1/4W	R1003	1-247-881-00	CARBON	120K 5% 1/4W
R703	1-249-465-11	CARBON	47K 5% 1/4W	R1005	1-249-437-11	CARBON	47K 5% 1/4W
R704	1-249-465-11	CARBON	47K 5% 1/4W	R1006	1-247-891-00	CARBON	330K 5% 1/4W
R705	1-247-721-11	CARBON	4.7K 5% 1/4W	R1007	1-249-420-11	CARBON	1.8K 5% 1/4W
R706	1-247-721-11	CARBON	4.7K 5% 1/4W	R1008	1-249-429-11	CARBON	10K 5% 1/4W
R707	1-249-460-11	CARBON	15K 5% 1/4W	R1009	1-249-435-11	CARBON	33K 5% 1/4W
R708	1-249-460-11	CARBON	15K 5% 1/4W	R1101	1-212-877-11	FUSIBLE	68 5% 1/4W F
R709	1-246-533-00	CARBON	330K 5% 1/4W	R1102	1-249-539-11	CARBON	300 5% 1/4W
R710	1-246-533-00	CARBON	330K 5% 1/4W	R1103	1-249-539-11	CARBON	300 5% 1/4W
R711	1-247-700-11	CARBON	100 5% 1/4W	R1104	1-247-710-11	CARBON	560 5% 1/4W
R712	1-247-700-11	CARBON	100 5% 1/4W	R1105	1-247-710-11	CARBON	560 5% 1/4W
R713	1-249-465-11	CARBON	47K 5% 1/4W	R1106	1-249-466-11	CARBON	56K 5% 1/4W
R714	1-249-465-11	CARBON	47K 5% 1/4W	R1107	1-249-466-11	CARBON	56K 5% 1/4W
R715	1-212-934-00	FUSIBLE	1 5% 1/2W F	R1108	1-247-711-11	CARBON	680 5% 1/4W
R716	1-212-934-00	FUSIBLE	8.2K 5% 1/4W	R1109	1-247-711-11	CARBON	680 5% 1/4W
R717	1-215-394-00	CARBON	75 5% 1/4W	R1110	1-247-712-11	CARBON	820 5% 1/4W
R801	1-249-422-11	CARBON	2.7K 5% 1/4W	R1111	1-247-712-11	CARBON	820 5% 1/4W
R802	1-249-424-11	CARBON	3.9K 5% 1/4W	R1112	1-247-719-11	CARBON	3.3K 5% 1/4W
R803	1-249-427-11	CARBON	6.8K 5% 1/4W	R1113	1-247-719-11	CARBON	3.3K 5% 1/4W
R804	1-249-432-11	CARBON	18K 5% 1/4W	R1114	1-215-406-00	CARBON	240 5% 1/4W
R805	1-249-422-11	CARBON	2.7K 5% 1/4W	R1115	1-249-411-11	CARBON	330 5% 1/4W
R806	1-249-424-11	CARBON	3.9K 5% 1/4W	R1116	1-249-429-11	CARBON	10K 5% 1/4W
R807	1-249-427-11	CARBON	6.8K 5% 1/4W	R1301	1-247-700-11	CARBON	100 5% 1/4W
R808	1-249-432-11	CARBON	18K 5% 1/4W	R1302	1-247-700-11	CARBON	100 5% 1/4W
R809	1-249-422-11	CARBON	2.7K 5% 1/4W	RV101	1-226-773-11	RES, ADJ, METAL GLAZE	22K
R810	1-249-424-11	CARBON	3.9K 5% 1/4W	RV102	1-226-773-11	RES, ADJ, METAL GLAZE	22K
R811	1-249-427-11	CARBON	6.8K 5% 1/4W	RV103	1-226-773-11	RES, ADJ, METAL GLAZE	22K

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.

Ref.No.	Part No.	Description
RV104	1-226-772-11	RES, ADJ, METAL GLAZE 4.7K
RV201	1-226-771-11	RES, ADJ, METAL GLAZE 1K
RV401	1-228-997-00	RES, ADJ, METAL GLAZE 100K
RV402	1-228-997-00	RES, ADJ, METAL GLAZE 100K
RV403	1-228-997-00	RES, ADJ, METAL GLAZE 100K
RV404	1-228-997-00	RES, ADJ, METAL GLAZE 100K
RV501	1-228-997-00	RES, ADJ, METAL GLAZE 100K
RV502	1-228-997-00	RES, ADJ, METAL GLAZE 100K
RV503	1-228-997-00	RES, ADJ, METAL GLAZE 100K
RV504	1-228-997-00	RES, ADJ, METAL GLAZE 100K
RV701	1-230-674-11	RES, VAR, CARBON 20K/20K(LINE OUT/PHONE LEVEL)
RY701	1-515-682-11	RELAY
RY1101	1-515-682-11	RELAY
RY1102	1-515-682-11	RELAY
RY1103	1-515-642-11	RELAY
RY1104	1-515-642-11	RELAY
S601	1-516-778-XX	SWITCH, SLIDE (OUTPUT SELECTOR)
S651	1-554-205-00	SWITCH, PUSH (LOAD IN DET)
S652	1-571-300-11	SWITCH, ROTARY (LOAD OUT DET)
S653	1-553-636-00	SWITCH, MICRO (MOTOR SELECT)
S654	1-570-447-11	SWITCH, MICRO (CHUCKING)
S701	▲1-553-318-00	SWITCH, PUSH (AC POWER)(1 KEY)
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)
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 (◀)
S822	1-554-303-21	SWITCH, KEY BOARD (>20)
S823	1-554-303-21	SWITCH, KEY BOARD (▶)
S824	1-554-303-21	SWITCH, KEY BOARD (ERASE)
S825	1-554-303-21	SWITCH, KEY BOARD (■)
S826	1-554-303-21	SWITCH, KEY BOARD (◀▶)
S827	1-554-303-21	SWITCH, KEY BOARD (▶▶)
S828	1-554-303-21	SWITCH, KEY BOARD (CLEAR)
S829	1-554-303-21	SWITCH, KEY BOARD (CHECK)
S830	1-554-303-21	SWITCH, KEY BOARD (▲ OPEN/CLOSE)

Ref.No.	Part No.	Description
S831	1-554-303-21	SWITCH, KEY BOARD (II)
S832	1-554-303-21	SWITCH, KEY BOARD (→ INDEX)
S833	1-554-303-21	SWITCH, KEY BOARD (INDEX MODE)
S834	1-554-303-21	SWITCH, KEY BOARD (FILE)
S835	1-554-303-21	SWITCH, KEY BOARD (REPEAT)
S836	1-554-303-21	SWITCH, KEY BOARD (DISPLAY)
S837	1-554-303-21	SWITCH, KEY BOARD (▶)
S838	1-554-303-21	SWITCH, KEY BOARD (A.PAUSE/SPACE)
S839	1-554-303-21	SWITCH, KEY BOARD (← INDEX)
S851	1-554-303-21	SWITCH, KEY BOARD (CONTINUE/SINGLE)
S852	1-554-303-21	SWITCH, KEY BOARD (SHUFFLE)
S853	1-554-303-21	SWITCH, KEY BOARD (PROGRAM)
SE51	1-422-198-21	COIL (SENSOR)
SW851	1-552-625-00	SWITCH, SLIDE (TIMER)
T901	▲1-449-078-11	(US,Canadian)...TRANSFORMER, POWER
T901	▲1-449-079-11	(AEP,UK).....TRANSFORMER, POWER
T902	▲1-449-081-11	(US,Canadian)...TRANSFORMER, POWER
T902	▲1-449-082-11	(AEP,UK).....TRANSFORMER, POWER
▲THP101	1-808-065-11	THERMISTOR, POSITIVE
▲THP102	1-808-065-11	THERMISTOR, POSITIVE
▲THP103	1-808-065-11	THERMISTOR, POSITIVE
▲THP104	1-808-065-11	THERMISTOR, POSITIVE
X301	1-567-686-11	OSCILLATOR, CERAMIC 4MHz
X401	1-567-926-11	VIBRATOR, CRYSTAL 16.9344MHz
X801	1-567-686-11	OSCILLATOR, CERAMIC 4MHz

ACCESSORY & PACKING MATERIAL

1-463-909-11	COMMANDER, REMOTE (RM-D650)
1-558-271-11	CORD, CONNECTION
3-694-204-01	SHEET, PROTECTION
3-703-390-01	(US).....INSTRUCTION
3-769-639-11	(Canadian,AEP,UK)...MANUAL, INSTRUCTION
3-769-639-21	(US).....MANUAL, INSTRUCTION
3-769-639-41	(AEP).....MANUAL, INSTRUCTION
*4-912-947-01	KEY, LOCK
4-922-528-01	LID, BATTERY CASE, COMMANDER
4-923-546-11	(US,Canadian)...INDIVIDUAL CARTON
4-923-546-21	(AEP,UK).....INDIVIDUAL CARTON
4-923-548-01	CUSHION (UPPER)
4-923-549-01	CUSHION (LOWER)

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.



# Troubleshooting Guide

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 connections and operating procedures.

Symptom	Cause	Remedy
The disc compartment does not close when a disc is inserted and the ▲ button is pressed.	The disc is not placed correctly.	Put 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 II button is engaged.	Press the II 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 OUTPUT SELECTOR is set to the DIGITAL OUT side while using the LINE OUT jacks.	Set the OUTPUT SELECTOR to LINE OUT side.
	The LINE OUT/HEADPHONE LEVEL control is set to the minimum (0) while using the VARIABLE LINE OUT jacks.	Turn the LINE OUT/HEADPHONE LEVEL control clockwise.
Display window does not illuminate even when the power is turned 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.	Set the TIMER switch to OFF.
Level of the recorded sound is different from that set on the tape recorder.	When the VARIABLE LINE OUT jacks are used, the LINE OUT/HEADPHONE LEVEL control is turned while recording.	Do not turn the LINE OUT/HEADPHONE LEVEL control while recording.

# CDP-557ESD/707ESD

**SONY®  
SERVICE MANUAL**

*US Model*

*Canadian Model*

*CDP-707ESD*

*AEP Model*

*UK Model*

*E Model*

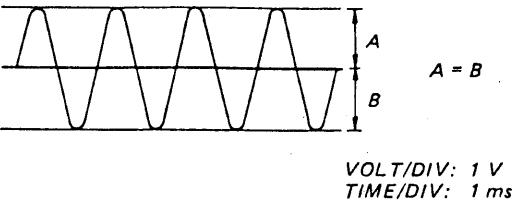
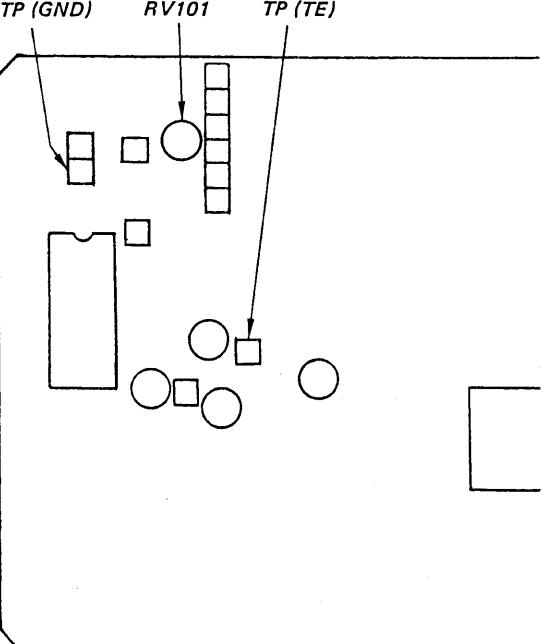
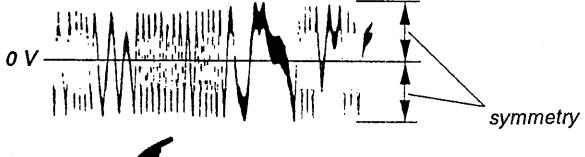
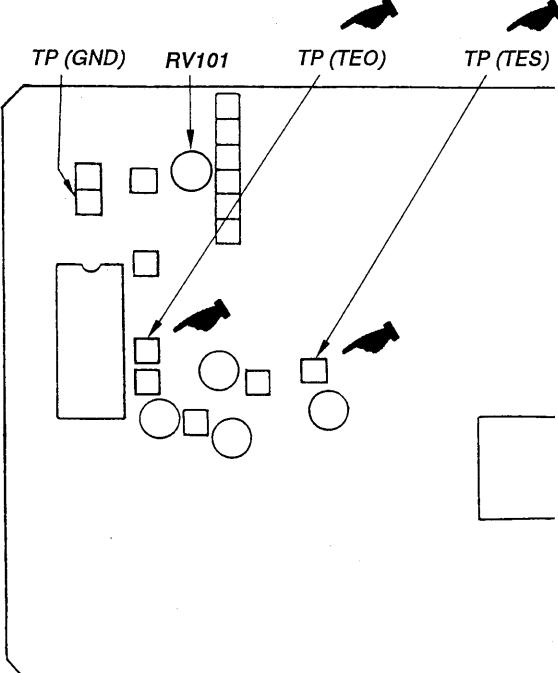
*CDP-557ESD*

## CORRECTION-1

Please correct your service manual.

 : Corrected portion

Page 8

Incorrect	Correct
<p><b>E-F Balance Adjustment</b></p> <p>This adjustment should be made when replacing Optical Pick-up.</p> <p><b>Procedure:</b></p> <ol style="list-style-type: none"> <li>1. Connect oscilloscope to test points TE and GND.</li> <li>2. Put set into adjustment mode. (See page 7.)</li> <li>3. Turn POWER switch on.</li> <li>4. Put disk (YEDS-18) in and press ► button.</li> <li>5. Adjust RV101 so that the traverse waveform is symmetrical above and below.</li> <li>6. After adjustment, cancel the adjustment mode. (See page 7.)</li> </ol> <p></p> <p>VOLT/DIV: 1 V TIME/DIV: 1 ms</p> <p><b>Adjustment Location :</b> digital board</p> <p></p>	<p><b>E-F Balance Adjustment</b></p> <p>This adjustment should be made when replacing Optical Pick-up.</p> <p><b>Procedure:</b></p> <ol style="list-style-type: none"> <li>1. Connect oscilloscope to test points TEO and GND.</li> <li>2. Put set into adjustment mode. (See page 7.)</li> <li>3. Connect test point TES with ground.</li> <li>4. Turn POWER switch on.</li> <li>5. Put disk (YEDS-18) in and press ► button.</li> <li>6. Adjust RV101 so that the traverse waveform is symmetrical above and below.</li> <li>7. After adjustment, cancel the adjustment mode and the connection of test point TES. (See page 7.)</li> </ol> <p></p> <p><b>Adjustment Location :</b> digital board</p> <p></p>

# CDP-557ESD/707ESD

**SONY.  
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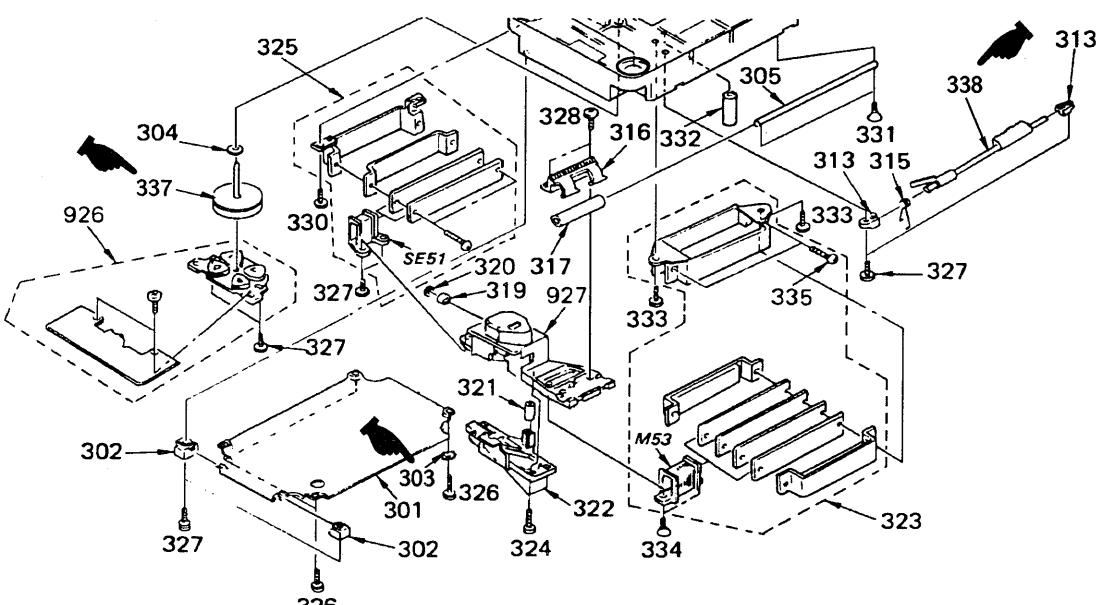
*US Model  
Canadian Model  
CDP-707ESD*

*AEP Model  
UK Model  
E Model  
CDP-557ESD*

## CORRECTION-2

Correct your service manual as shown below.

→ : indicates corrected portion.

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
39	337	_____		A-4675-230-A	ROTOR ASSY (BU-10)
	338	_____		A-4675-324-A	ROTOR ASSY (BU-10A)
					

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