

# CDP-710

## SERVICE MANUAL

**AEP Model**  
Free service manuals  
**UK Model**  
Gratis schemata's



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### SPECIFICATIONS

#### COMPACT DISC PLAYER CDP-710

System	Compact disc digital audio system
Laser	Semiconductor laser ( $\lambda = 780 \text{ nm}$ )
Laser output	Max. 0.4 mW*
	* This output is the value measured at a distance of about 1.6 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	2 Hz – 20 kHz ( $\pm 0.5 \text{ dB}$ )
Signal to noise ratio	More than 102 dB
Dynamic range	More than 95 dB
Harmonic distortion	Less than 0.003% (at 1 kHz)
Channel separation	More than 90 dB
Wow and flutter	Below measurable limit ( $\pm 0.001\% \text{ W PEAK}$ )

	Type	Output level	Load impedance
LINE OUT	Phono jack	2 V (50 kilohms)	more than 10 kilohms
HEADPHONES	Stereo jack	28 mW (32 ohms)	
DIGITAL OUT	Phono jack	0.5 Vp-p (75 ohms)	75 ohms


#### General

Power requirements	Model for the United Kingdom: 240 V AC Model for the European countries: 220 V AC
Power consumption	15 W
Dimensions	Approx. 430 × 100 × 335 mm (w/h/d) (17 × 4 × 13 <sup>3</sup> / <sub>16</sub> inches) including projecting parts and controls
Weight	Approx. 4.9 kg (10 lbs 6 oz), net

#### Remote commander RM-D350A

Remote control system	Infrared control
Power requirements	3 V DC with two batteries size AA (IEC designation R6)
Dimensions	67 × 20 × 175 (w/h/d) (2 <sup>3</sup> / <sub>4</sub> × 1 <sup>3</sup> / <sub>16</sub> × 7)
Weight	145 g (5 oz) Including batteries

#### 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.

COMPACT DISC PLAYER  
**SONY**®



**AUD**

FEATURES

- PROGRAM play for playing up to 20 selections in a desired order
- SHUFFLE play for playing the selections in a random order

- REPEAT function for a single selection, the whole disc, PROGRAM play, or SHUFFLE play. Or for a particular portion of a selection.

- Easy-to-read display window shows the track number being played, elapsed playing time, and the remaining time, and indicates the repeat play, shuffle play, auto space functions.

- Auto space function for creating a blank space of 3 seconds between each selection.

- Timer play for initiating disc play at a desired time (a commercially available timer is required).

- Index search function for quickly locating a desired part\* (only with the remote commander).

\* Example: a movement in a symphony. Index search can be used only for discs having index numbers. Such discs have **INDEX** mark.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

DANGER

Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

CAUTION

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

**CLASS 1 LASER PRODUCT**

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

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

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 30 cm fra den optiske pick-up.

1. Data for Laser Diode

- Materiale: Ga-As
- Bølgelængde: 780 nm
- Udstråling: Kontinuerlig
- Laser Output: max. 0.4 mW\*

\* målt i 1.6 mm afstand fra overfladen af objektiv-linsen på den optiske pick-up enhed.

- Klassifikation: Svarende til 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.

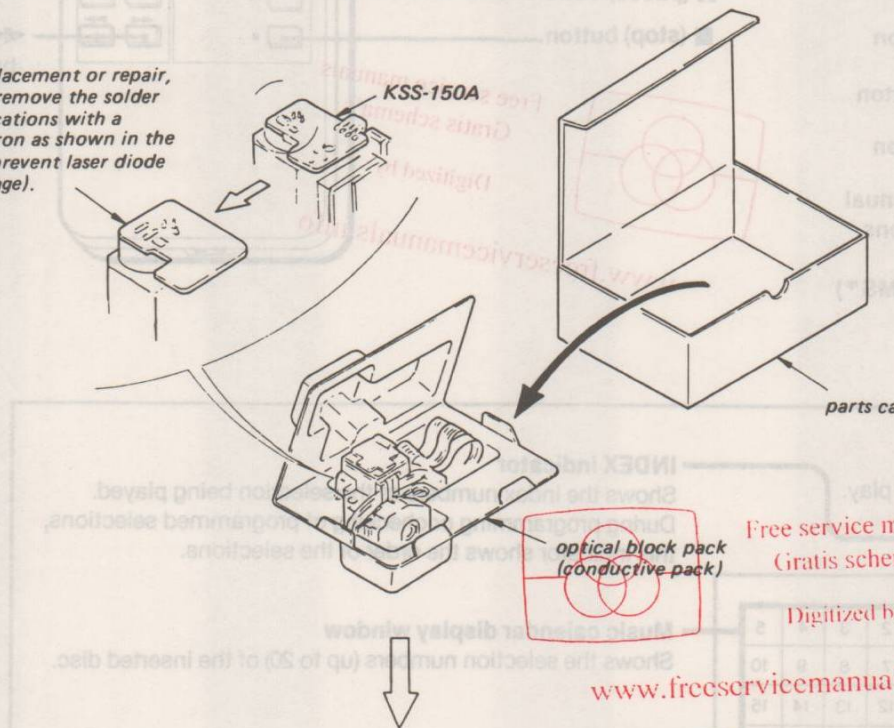
NOTES ON HANDLING THE OPTICAL BLOCK (KSS-150A)

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-150A 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-150A 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-150A touch clothing.

During replacement or repair, be sure to remove the solder at these locations with a soldering iron as shown in the figure (to prevent laser diode static damage).

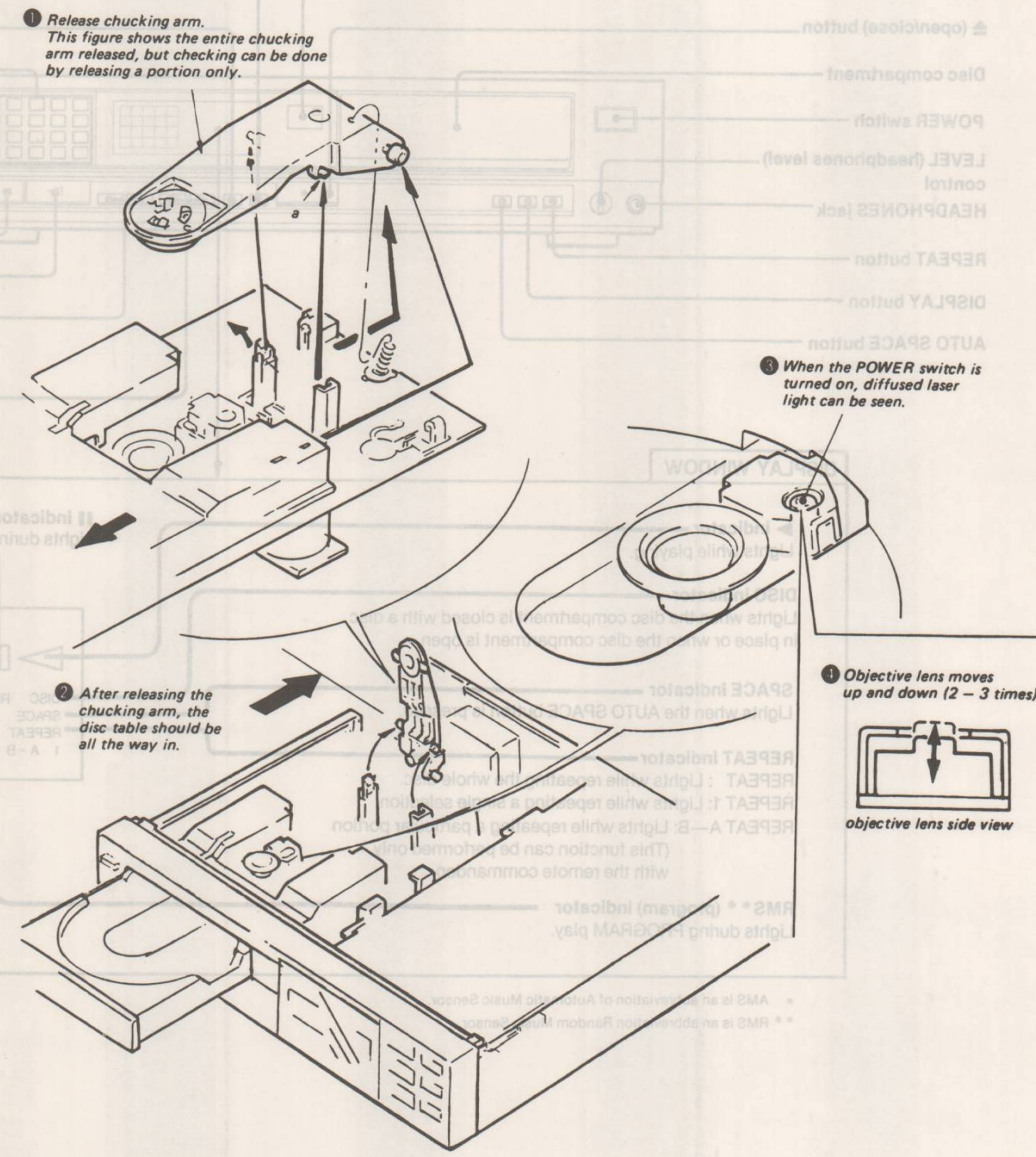


NOTES ON CHECKING LASER DIODE LIGHT EMISSION

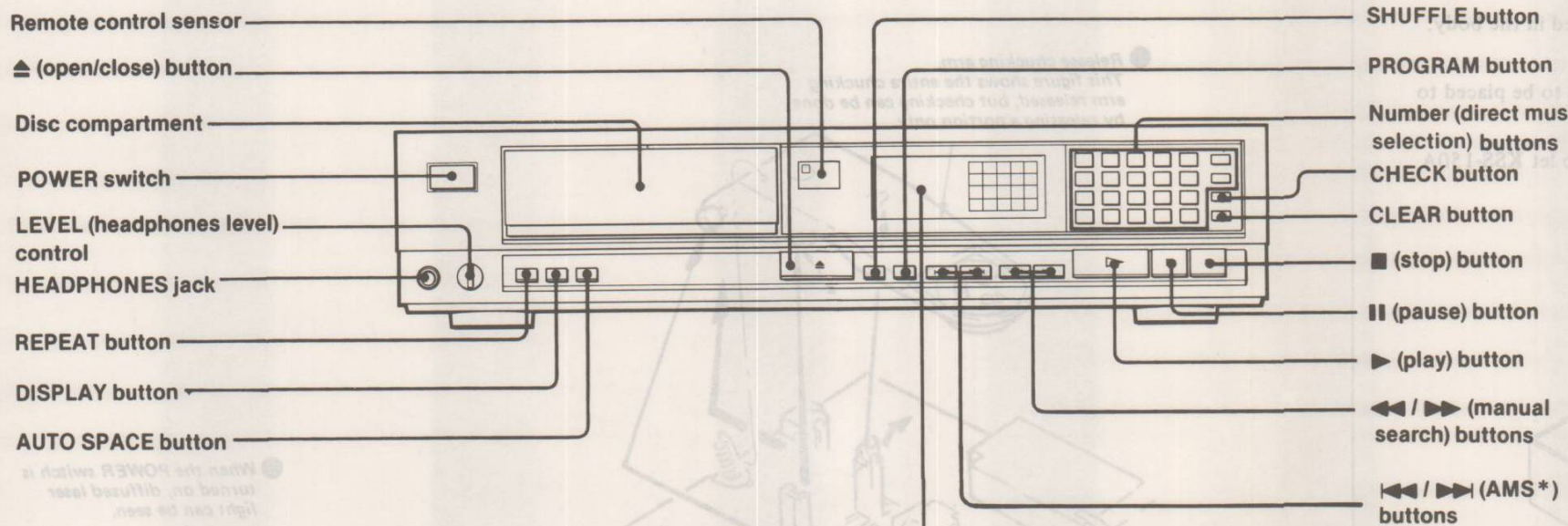
The laser beam on this set is converged by the objective lens in the optical block so that it focuses on the disc reflective surface. Therefore, when checking light emission of the laser diode, be sure to keep the eyes more than 30 cm away from the objective lens.

CHECKING LASER DIODE AND FOCUS SEARCH OPERATION

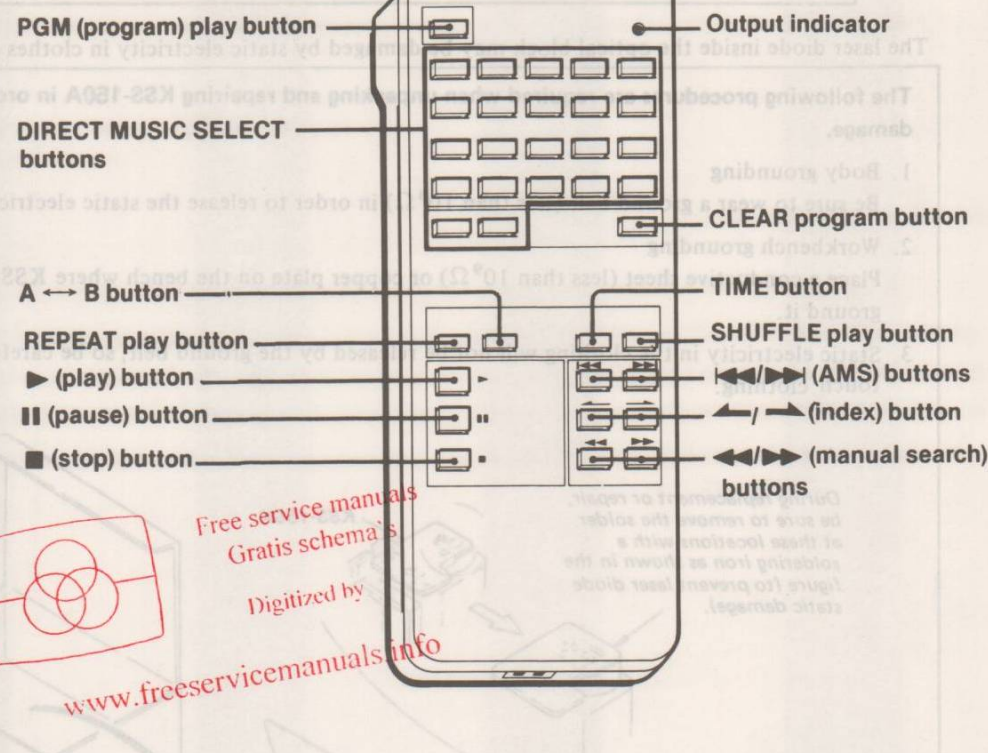
Check if the following operation is performed by looking at the objective lens after releasing the chucking arm and turning the POWER switch on. (Optical block should be at the innermost circumference when checking.)



**FRONT PANEL**

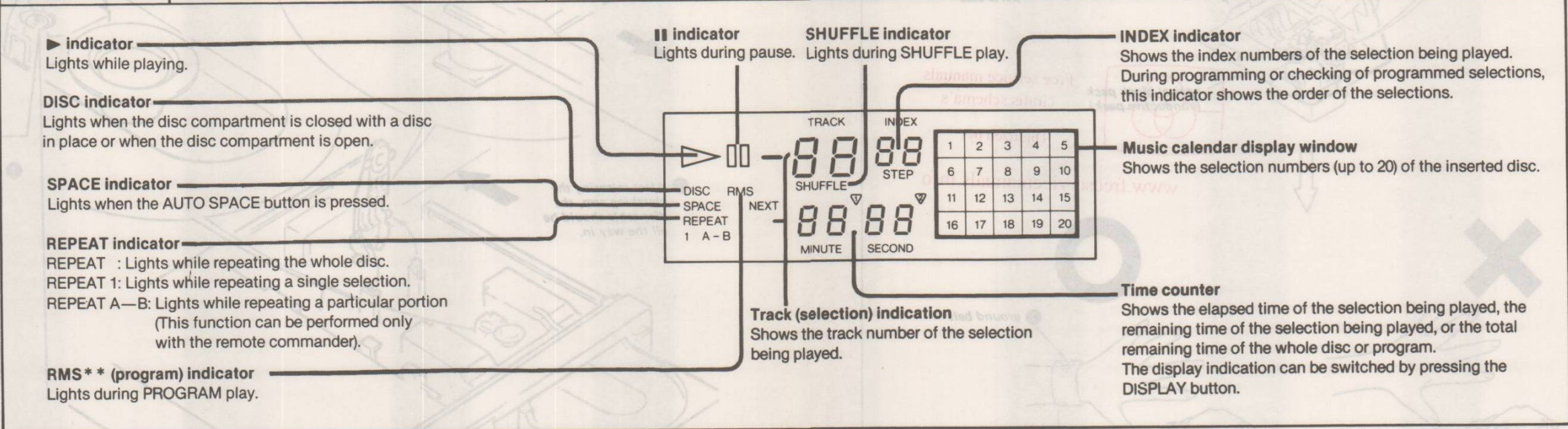


**REMOTE COMMANDER**



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**DISPLAY WINDOW**



\* AMS is an abbreviation of Automatic Music Sensor.  
 \*\* RMS is an abbreviation Random Music Sensor.

SECTION 1  
ADJUSTMENTS

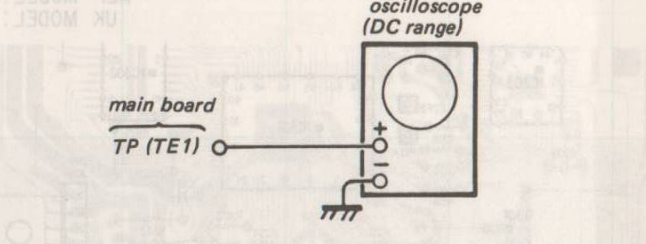
ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-18 disc unless otherwise indicated.
3. Use the oscilloscope with more than 10 MΩ impedance.

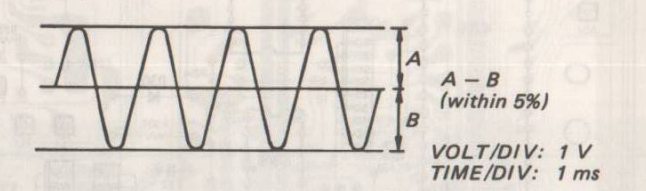
E-F Balance Adjustment

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

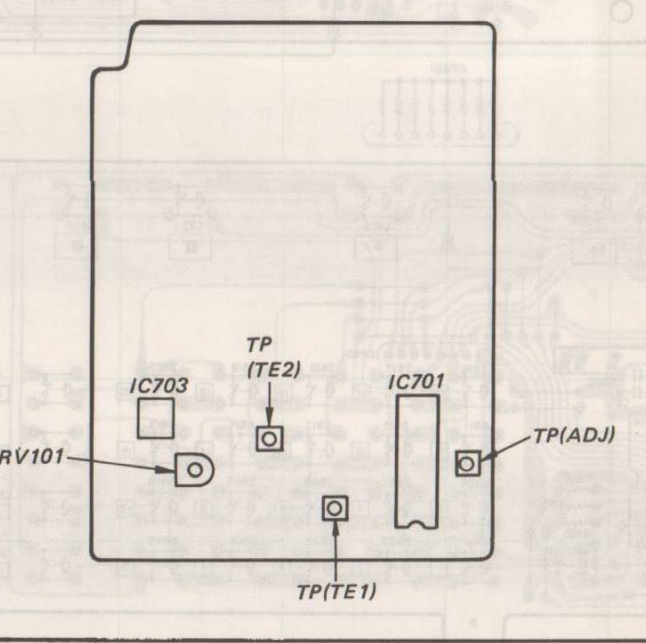
Procedure:



1. Connect test point TP (ADJ) and test point TP (TE2) to ground with lead wire.
2. Connect oscilloscope to test point TP (TE1)
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, remove the lead wire connected in step 5.



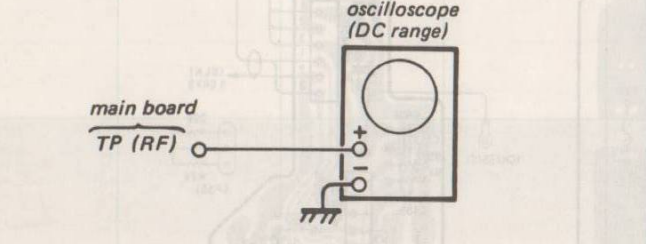
Adjustment Location: main board



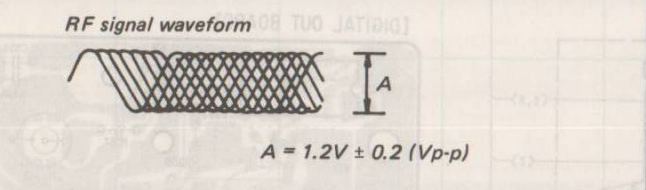
Focus Bias Adjustment

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

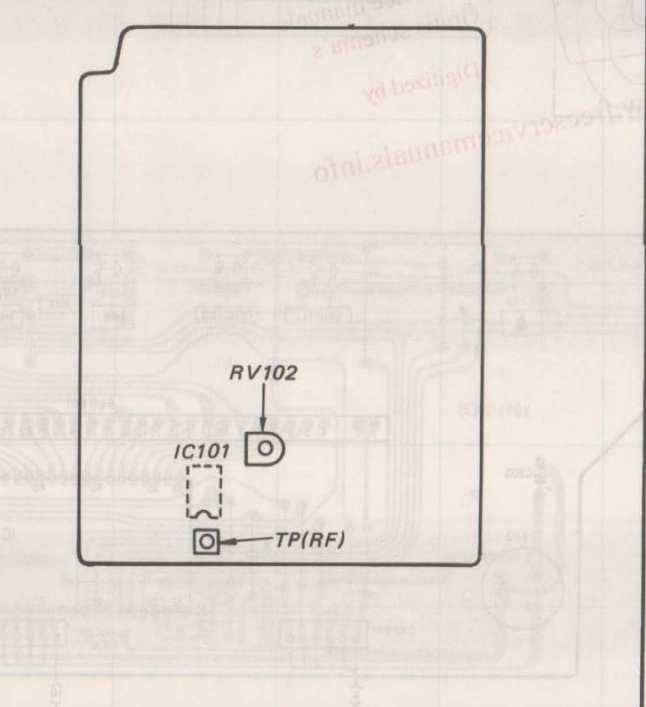
Procedure:



1. Connect oscilloscope to test points TP (RF).
2. Turn POWER switch on.
3. Put disc (YEDS-18) in and press ▷ button.
4. Adjust RV102 for an optimum waveform eye pattern or so that the peak is maximum. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.

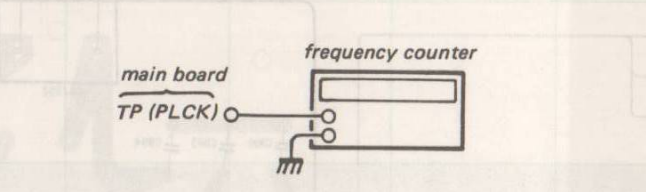


Adjustment Location: main board



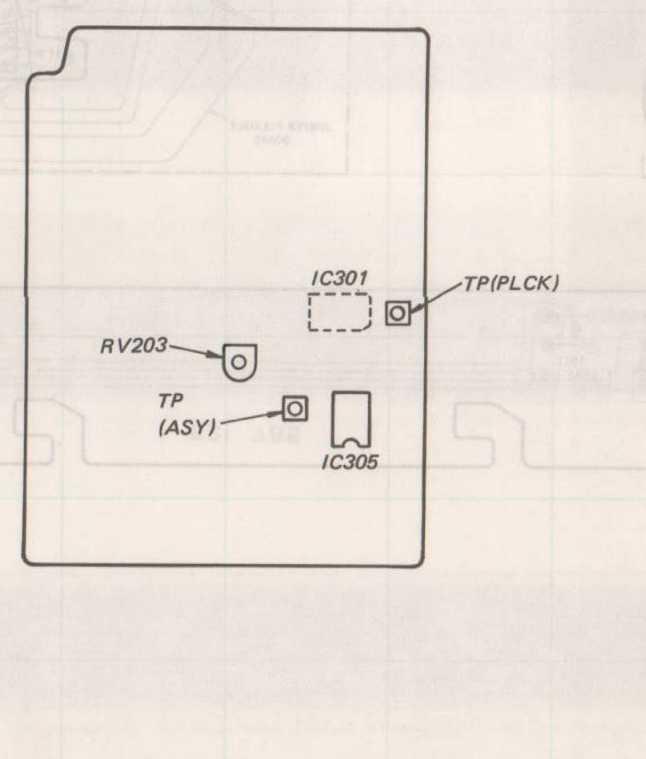
RF PLL Frequency Adjustment/Lock Frequency Check

Procedure:



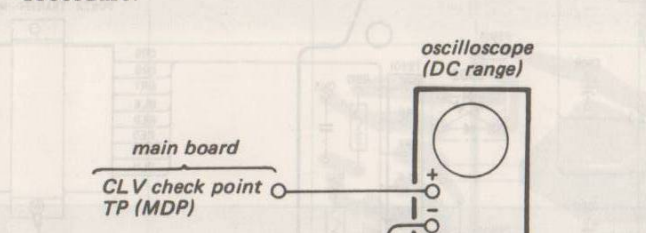
1. Connect test point TP (ASY) to ground with lead wire.
2. Turn POWER switch on.
3. Connect the frequency counter to test points TP (PLCK).
4. Adjust RV203 so that the reading on frequency counter is 4.3218 MHz ± 10 kHz. . . . . (RF PLL frequency adjustment)
5. Remove lead wire connecting TP (ASY) to ground.
6. Put disc (YEDS-18) in and press ▷ button.
7. Confirm that the reading on frequency counter is 4.3218 MHz.

Adjustment Location: main board

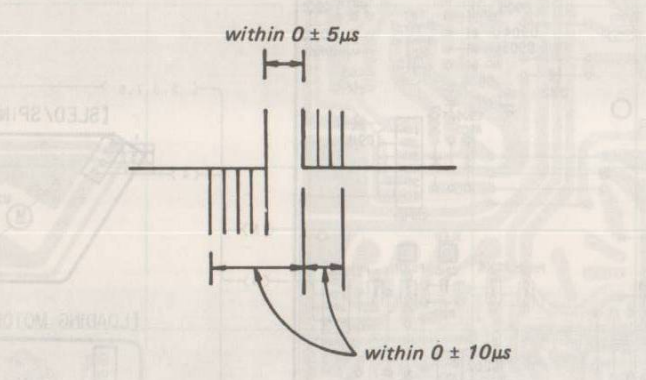


CLV Phase Lock Check

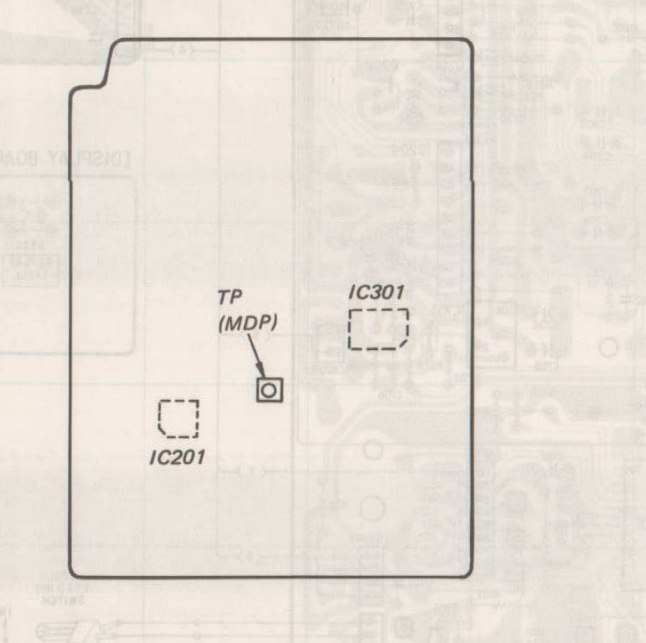
Procedure:



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



Adjustment Location: main board



REFERENCE

Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly. However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

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

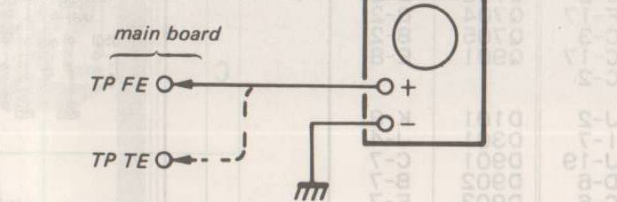
Symptoms	Gain	Focus	Tracking
• The time until music starts becomes longer for STOP → ▷PLAY or automatic selection (◀▶ buttons pressed. (Normally takes about 2 seconds.)		low	low or high
• Music does not start and disc continues to rotate for STOP → ▷PLAY or automatic selection (◀▶ buttons pressed.)	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

The following is a simple adjustment method.

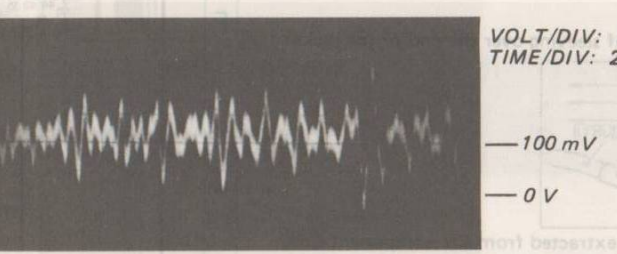
Simple Adjustment

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

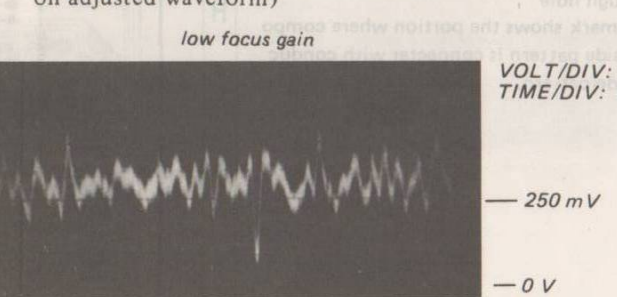
Procedure:



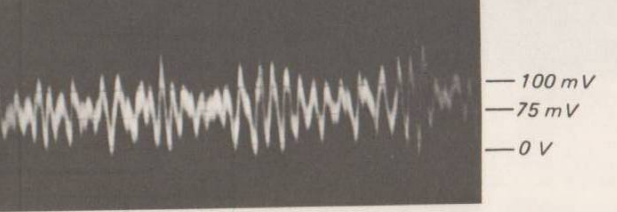
1. Keep the set horizontal. (If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.)
2. Insert disc (YEDS-18) and press ▷PLAY button.
3. Connect oscilloscope to main amp board TP (FE1).
4. Adjust RV201 so that the waveform is as shown in the figure below. (focus gain adjustment)



low focus gain



high focus gain



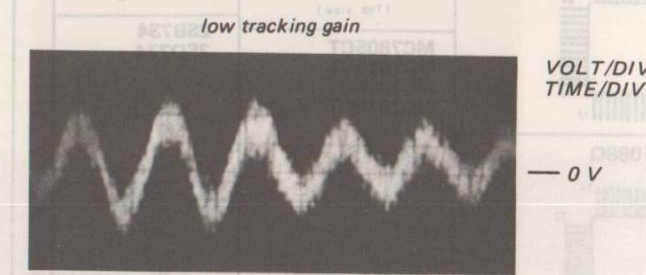
low tracking gain

SECTION 2  
DIAGRAMS

5. Connect oscilloscope to main board TP (TE1).
6. Adjust RV202 so that the waveform is as shown in the figure below. (tracking gain adjustment)



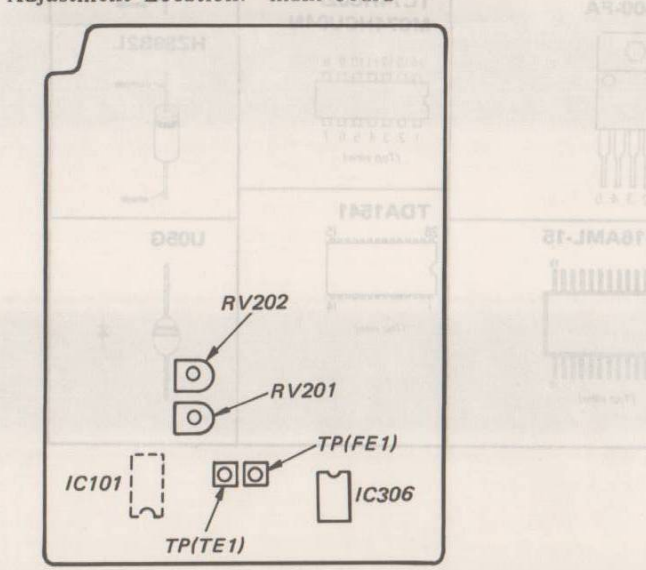
Incorrect Examples (fundamental wave appears)



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



Adjustment Location: main board



CDP-710 CDP-710

CDP-710 CDP-710

SECTION 5 DIAGRAMS

Semiconductor Lead Layouts


SEMICONDUCTOR LOCATION

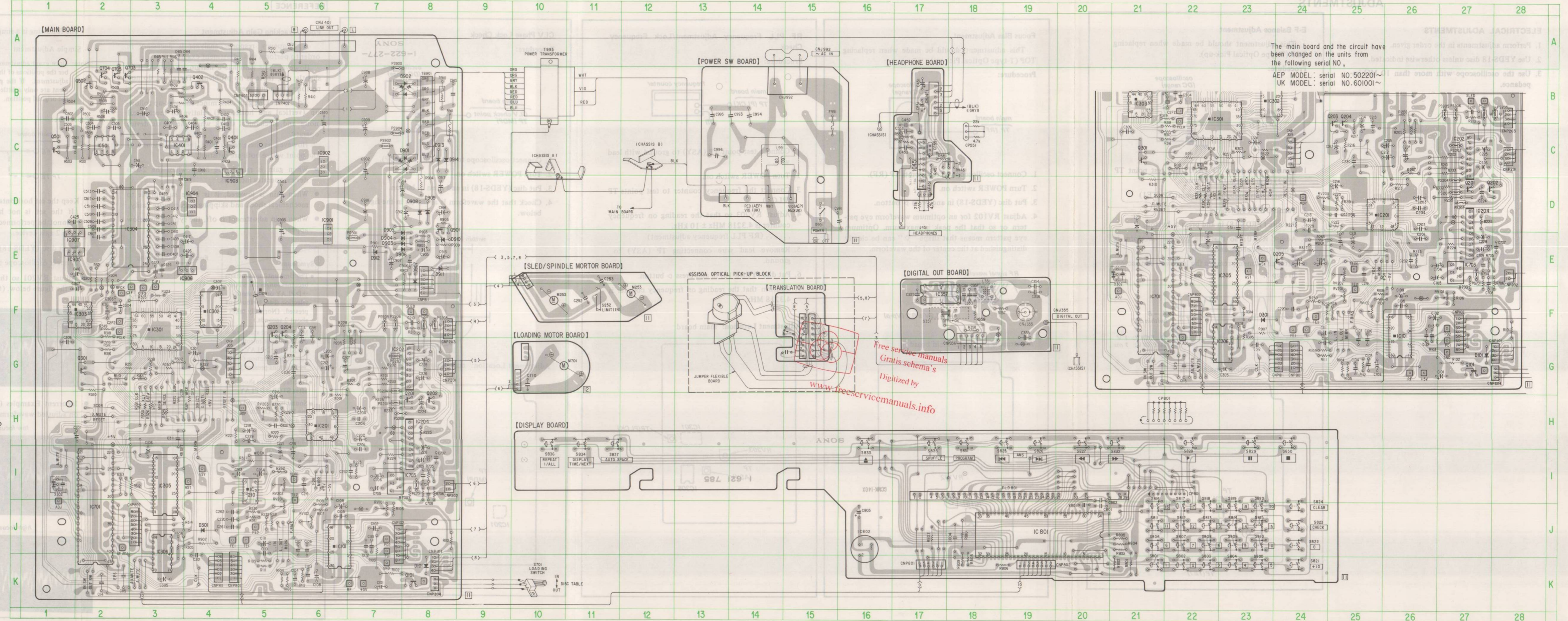
Ref. No.	Location	Ref. No.	Location
IC101	J-6	Q101	K-8
IC201	H-6	Q201	H-4
IC202	H-8	Q202	F-5
IC204	H-8	Q203	F-5
IC210	I-5	Q204	F-5
IC301	F-3	Q301	G-2
IC302	F-4	Q401	B-4
IC303	F-2	Q402	B-4
IC304	D-2	Q501	C-1
IC305	I-3	Q502	B-2
IC306	J-3	Q703	B-2
IC357	F-17	Q704	B-2
IC401	C-3	Q705	B-2
IC451	C-17	Q901	B-8
IC501	C-2		
IC701	J-2	D101	K-8
IC703	I-7	D301	L-4
IC801	J-19	D901	B-7
IC901	D-6	D902	B-7
IC902	C-6	D903	B-7
IC903	D-4	D904	E-7
IC904	D-4	D905	M-7
IC905	E-1	D906	M-7
IC906	E-3	D907	D-8
IC907	E-1	D908	D-8
IC90		D909	D-8
		D910	D-8
		D911	D-8
		D912	D-8
		D913	D-8
		D914	D-8

Note:

- Color code of sleeving over the end of the jacket.
- WHT RED (RED/GRY)
- parts extracted from the component side.
- parts extracted from the conductor side.
- part mounted on the conductor side.
- indicates side identified with part number.
- Through hole

This mark shows the portion where compo nent side pattern is connector with conduc tor side pattern.

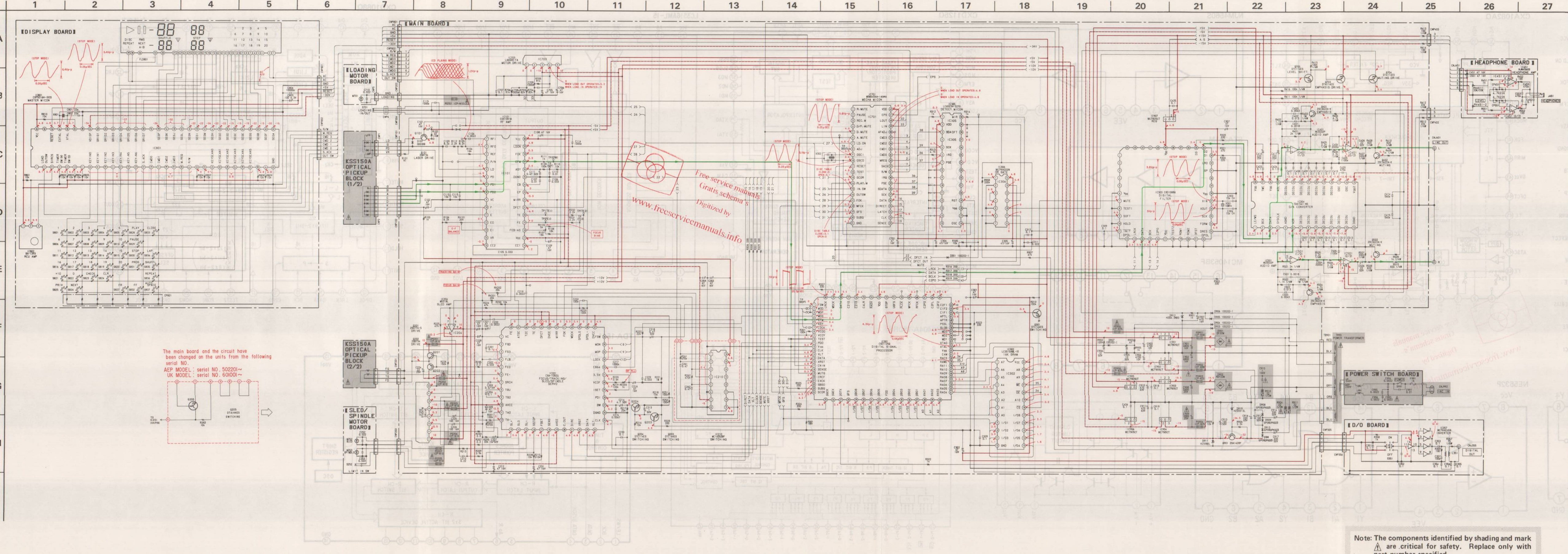
5-1. MOUNTING DIAGRAM



The main board and the circuit have been changed on the units from the following serial NO ,  
 AEP MODEL : serial NO.502201~  
 UK MODEL : serial NO.601001~

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5-2. SCHEMATIC DIAGRAM



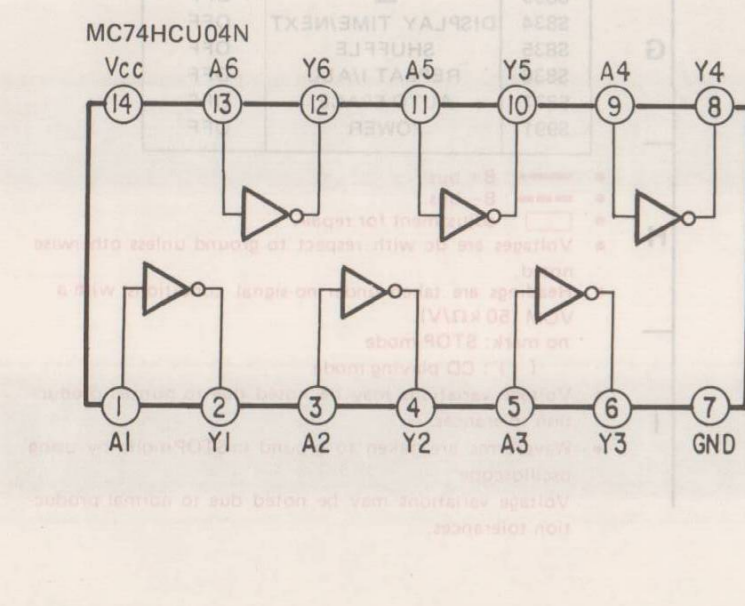
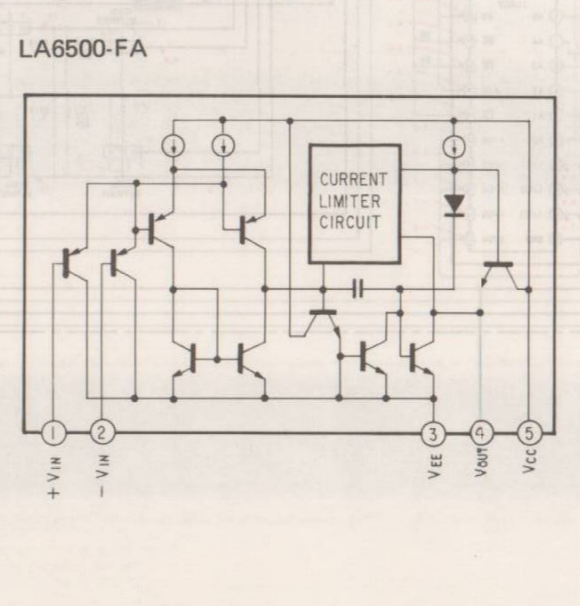
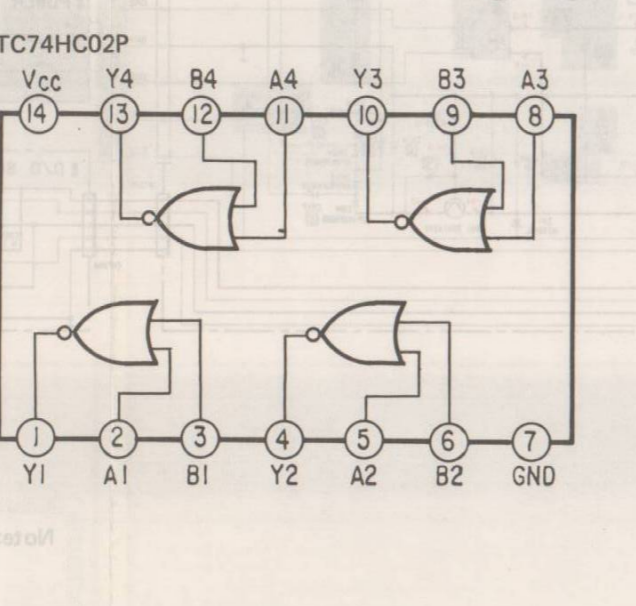
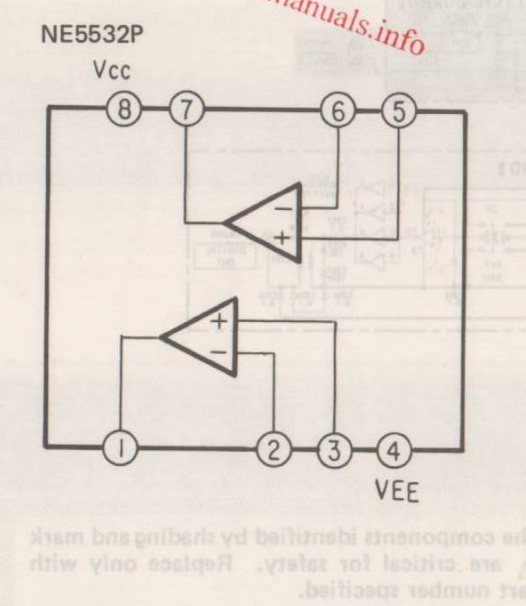
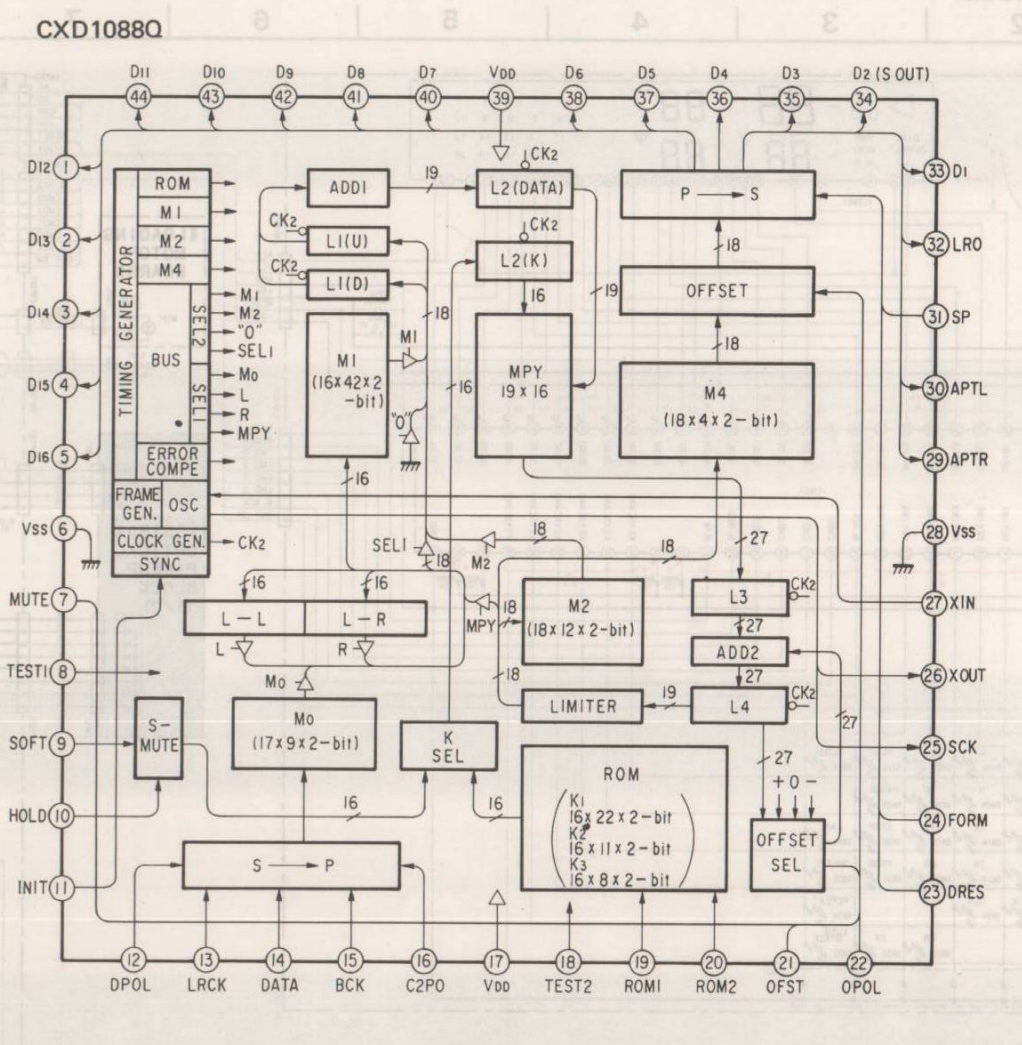
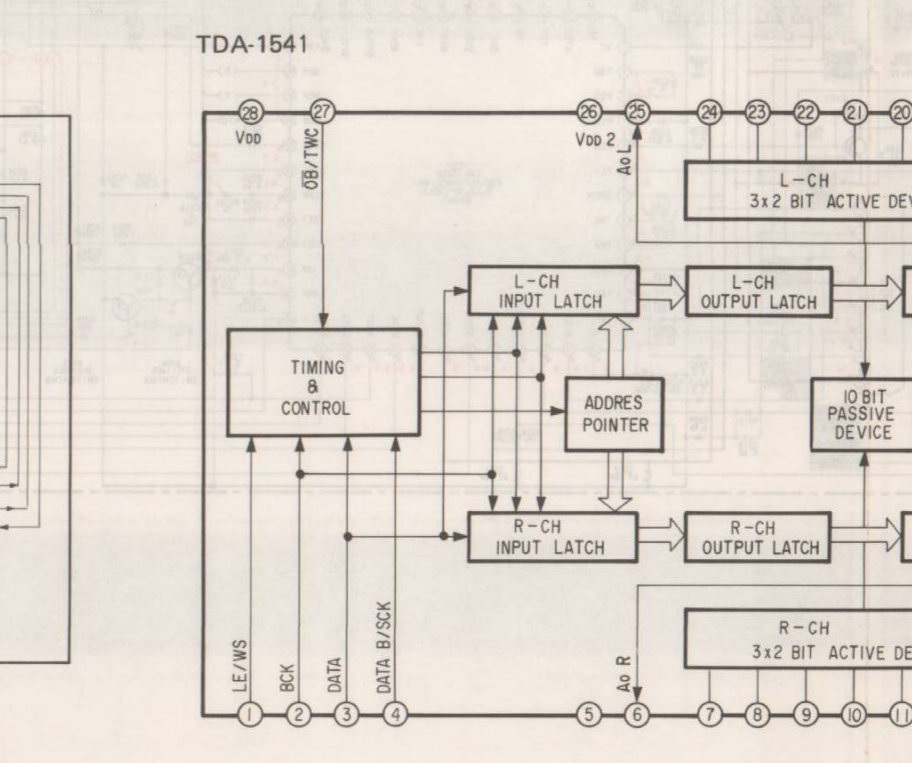
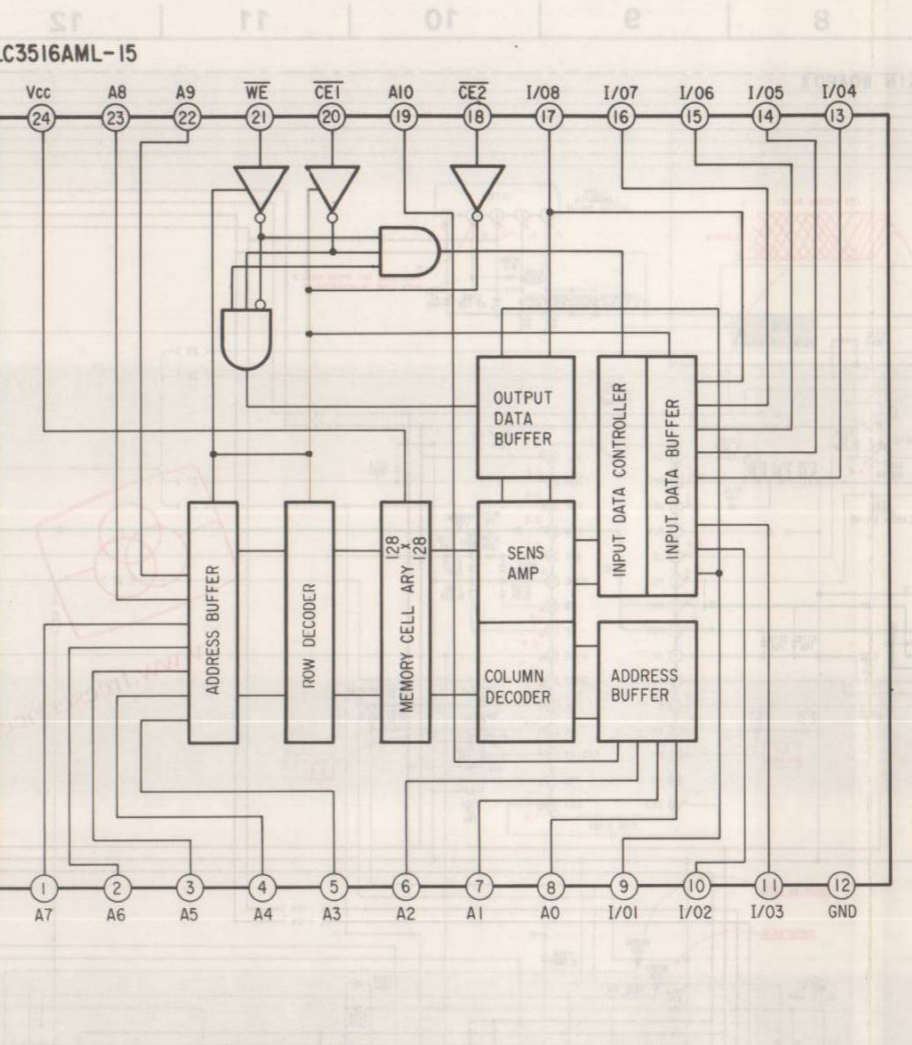
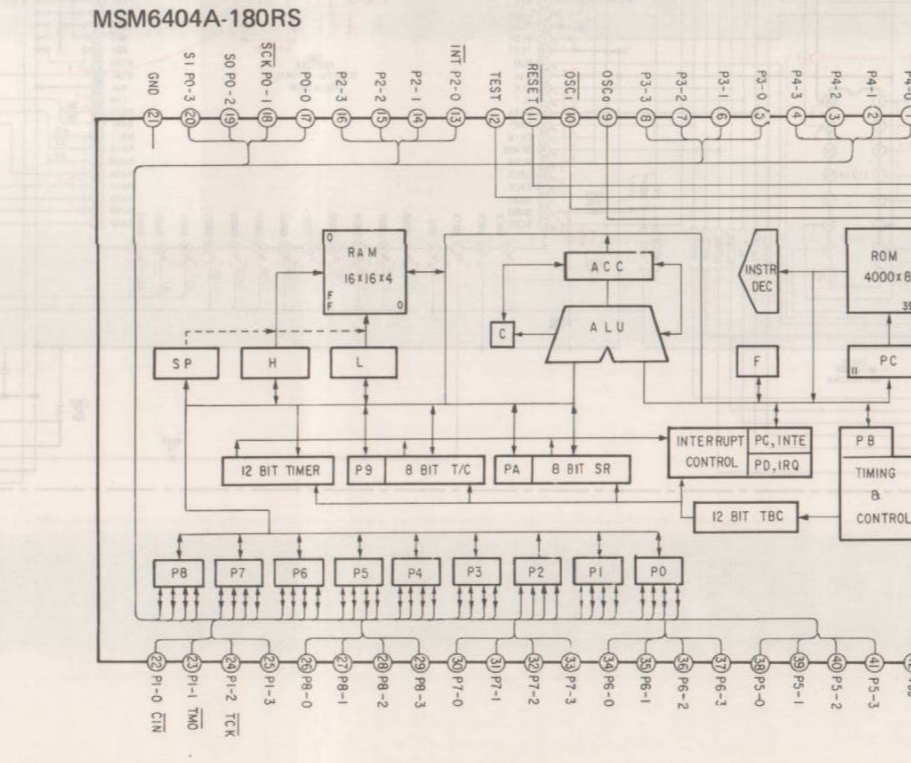
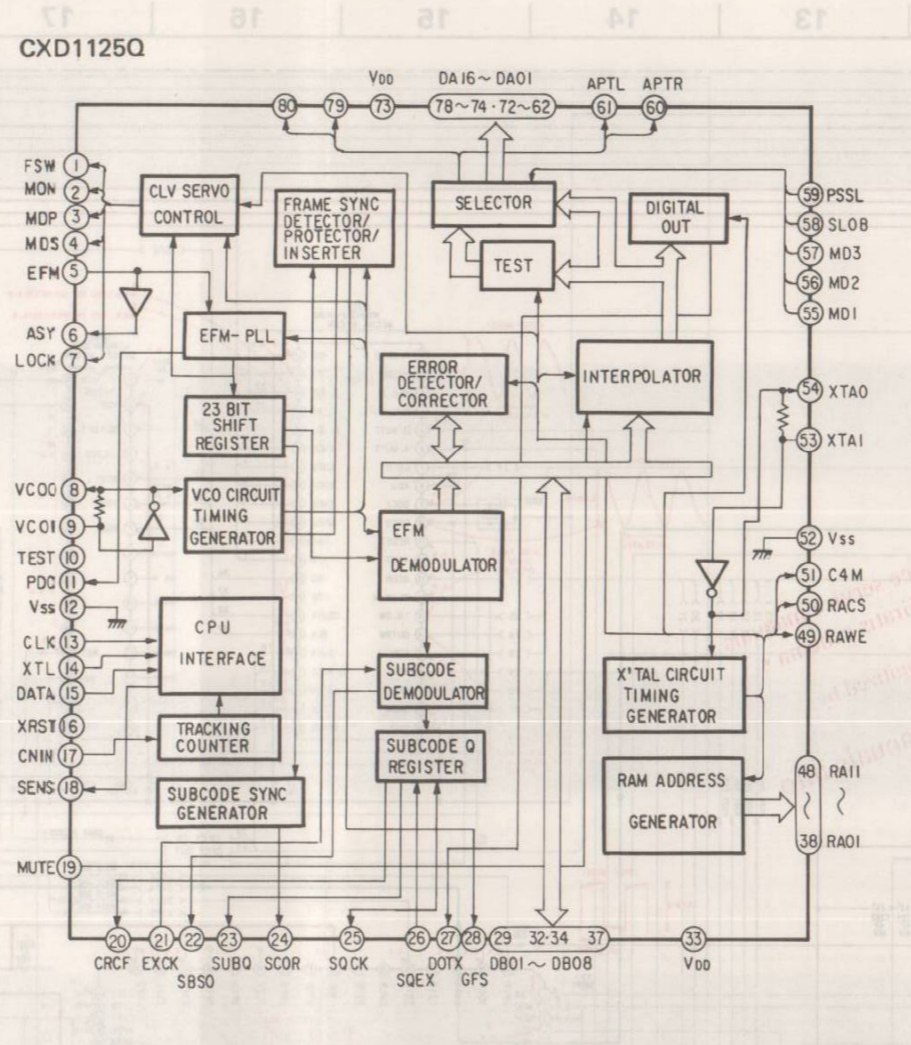
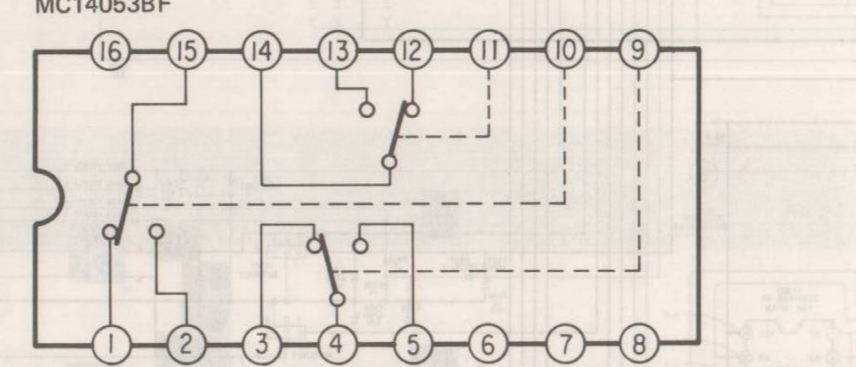
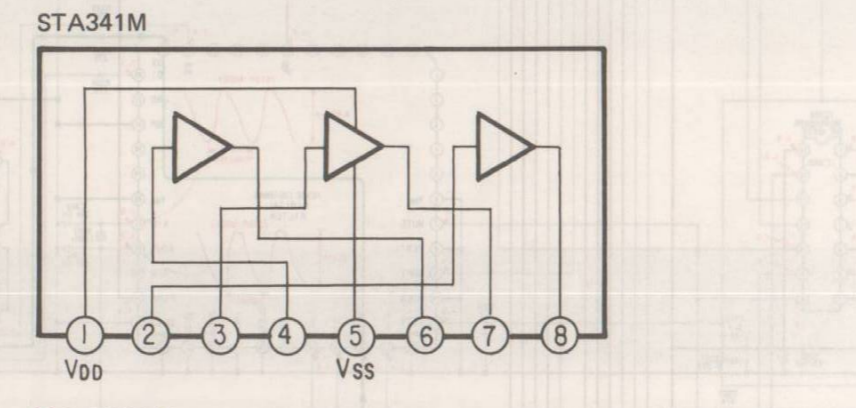
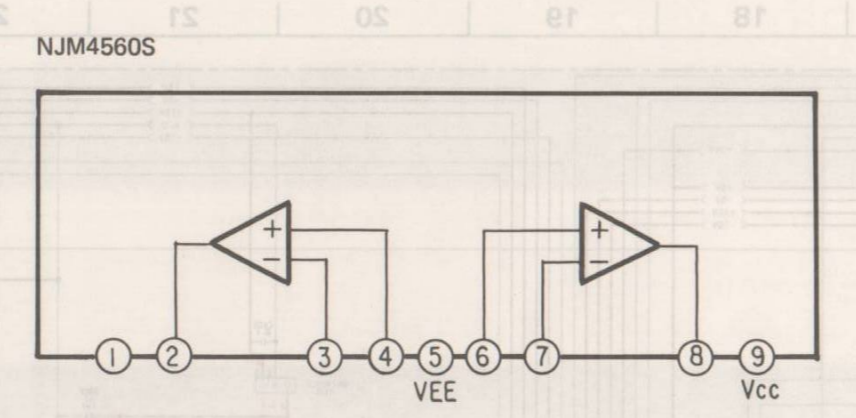
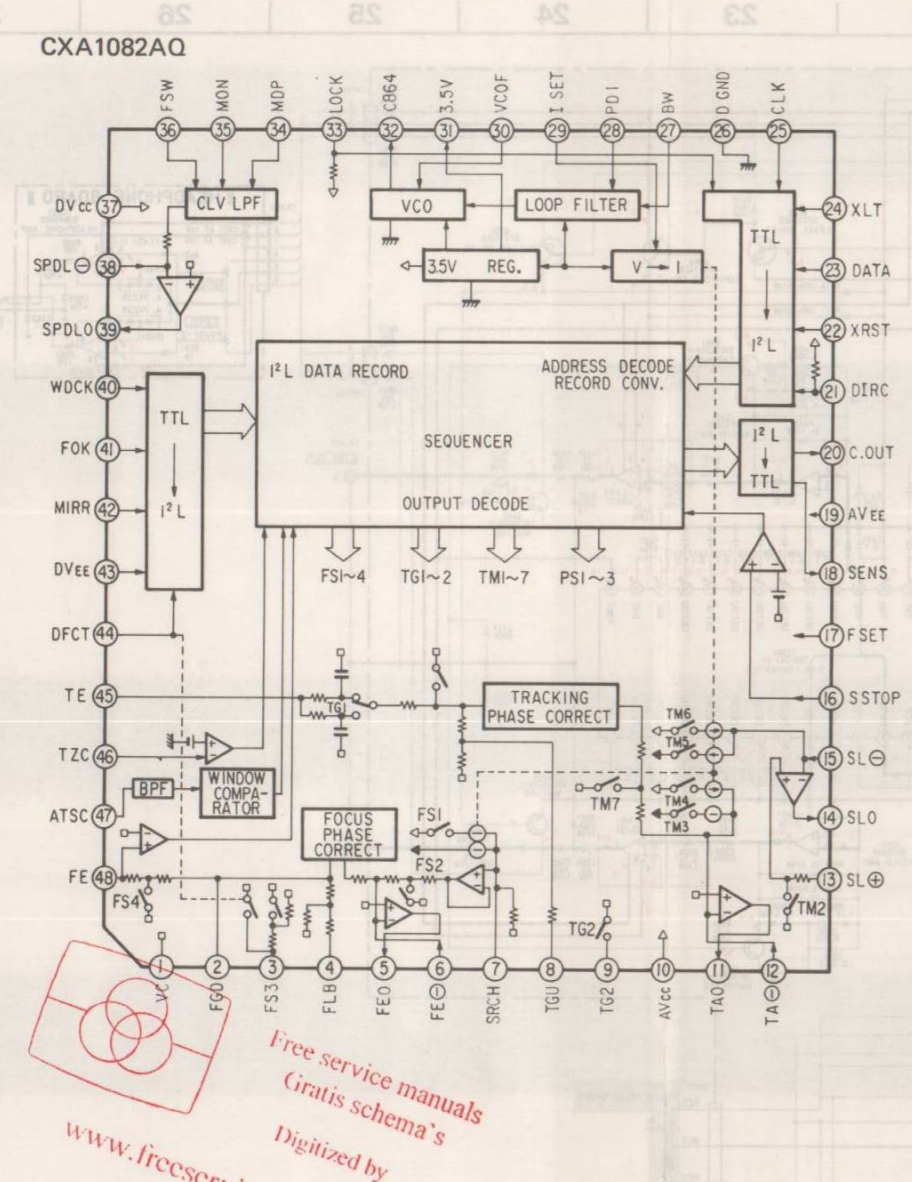
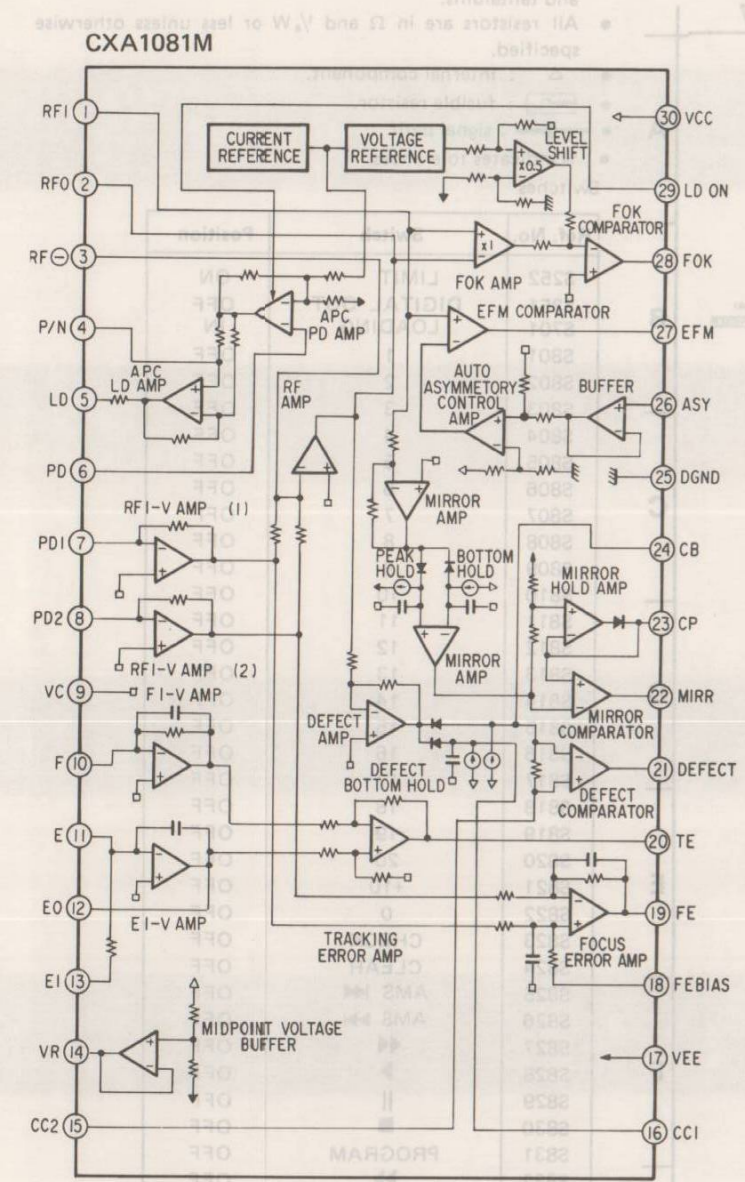
- Note:**
- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF} = \mu\text{F} / 100$  or less are not indicated except for electrolytics and tantalums.
  - All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
  - $\Delta$  : internal component.
  - $\square$  : fusible resistor.
  - $\rightarrow$  : signal path.
  - % indicates tolerances.

Switches

Ref. No.	Switch	Position
S252	LIMIT	ON
S351	DIGITAL OUT	OFF
S701	LOADING	IN
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	+10	OFF
S822	0	OFF
S823	CHECK	OFF
S824	CLEAR	OFF
S825	AMS $\leftarrow$	OFF
S826	AMS $\rightarrow$	OFF
S827	$\leftarrow$	OFF
S828	$\rightarrow$	OFF
S829	$\parallel$	OFF
S830	$\blacksquare$	OFF
S831	PROGRAM	OFF
S832	$\blacktriangleright$	OFF
S833	$\blacktriangle$	OFF
S834	DISPLAY TIME/NEXT	OFF
S835	SHUFFLE	OFF
S836	REPEAT /ALL	OFF
S837	AUTO SPACE	OFF
S991	POWER	OFF

- $\text{---}$  : B+ bus.
- $\text{---}$  : B- bus.
- $\square$  : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50  $\text{k}\Omega/\text{V}$ ).  
no mark: STOP mode  
( ) : CD playing mode
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in STOP mode by using oscilloscope.  
Voltage variations may be noted due to normal production tolerances.

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



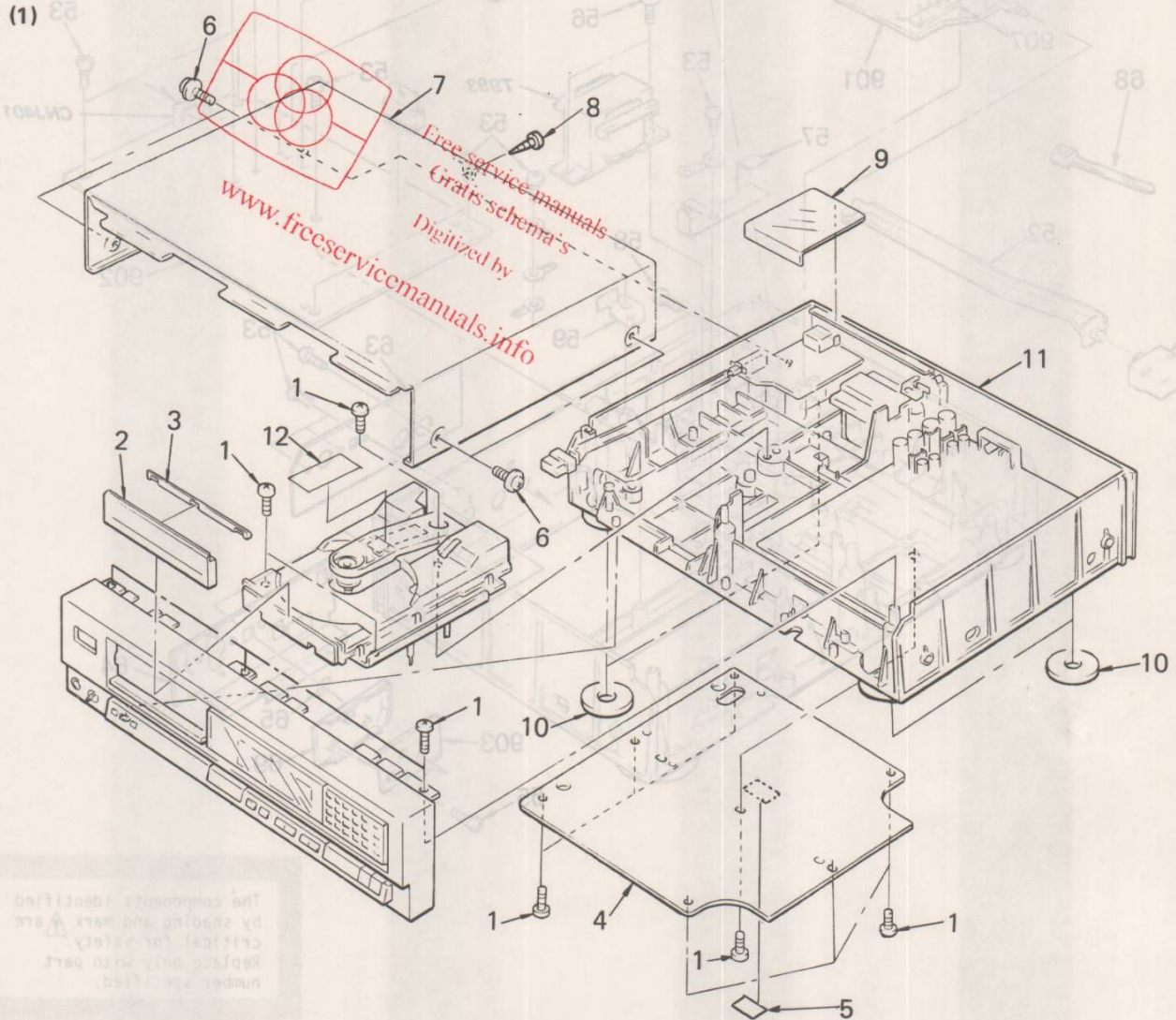
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

## SECTION 3 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.

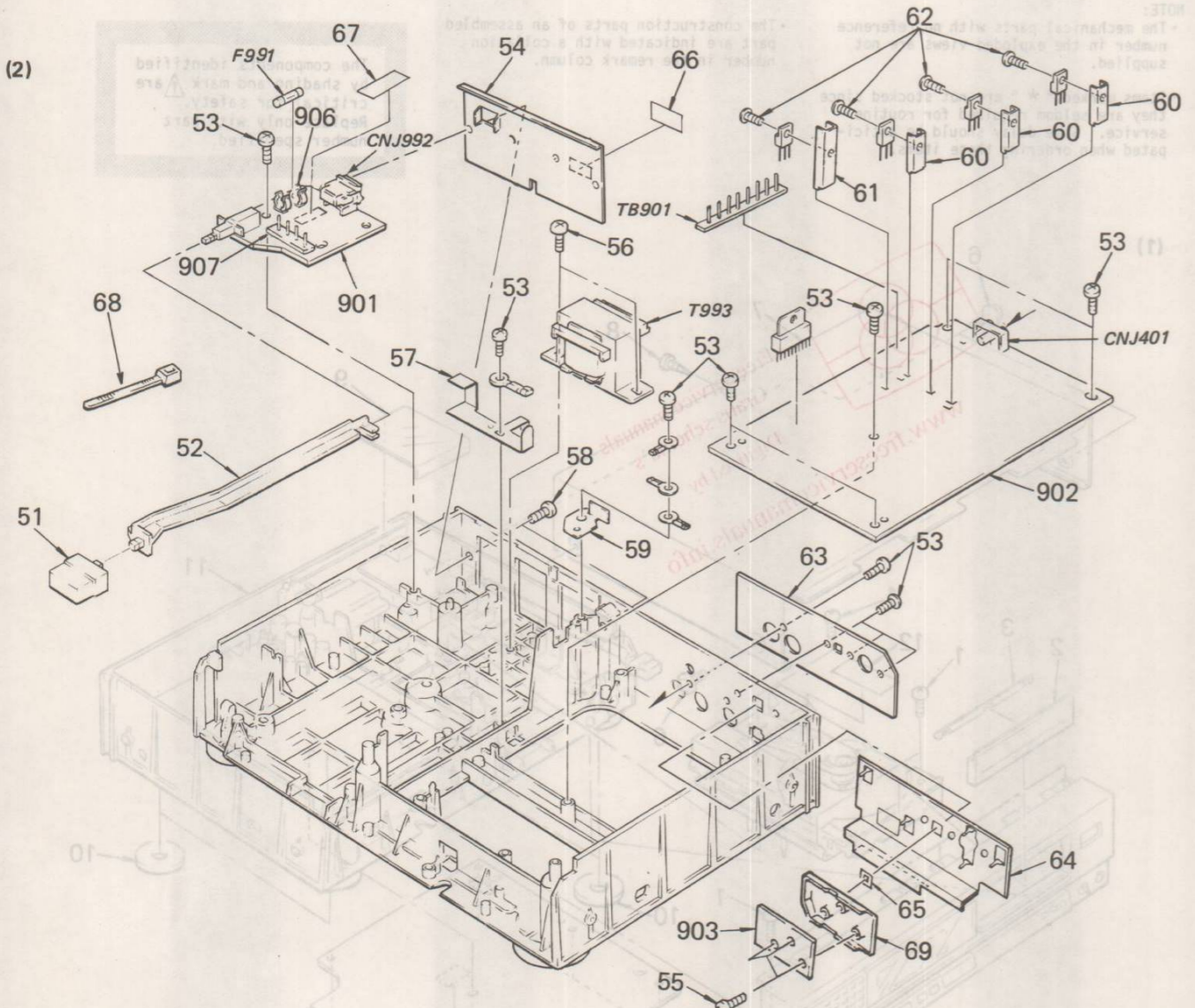
The components identified by shading and mark are critical for safety. Replace only with part number specified.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S		8	3-703-473-11	SCREW, TERMINAL	
2	4-912-961-11	PANEL, LOADING		9	*4-912-931-01	COVER, POWER	
3	4-912-933-01	ESCUTCHEON, LOADING PANEL		10	4-912-919-01	FOOT	
4	*4-912-912-21	PLATE, BOTTOM		11	*4-912-938-11	CHASSIS	
5	3-703-079-21	(UK)...LABEL, CAUTION (BACK)		12	4-885-843-02	LABEL, CAUTION, LASER	
6	3-703-135-31	SCREW, TAPPING					
7	4-912-939-01	CASE					

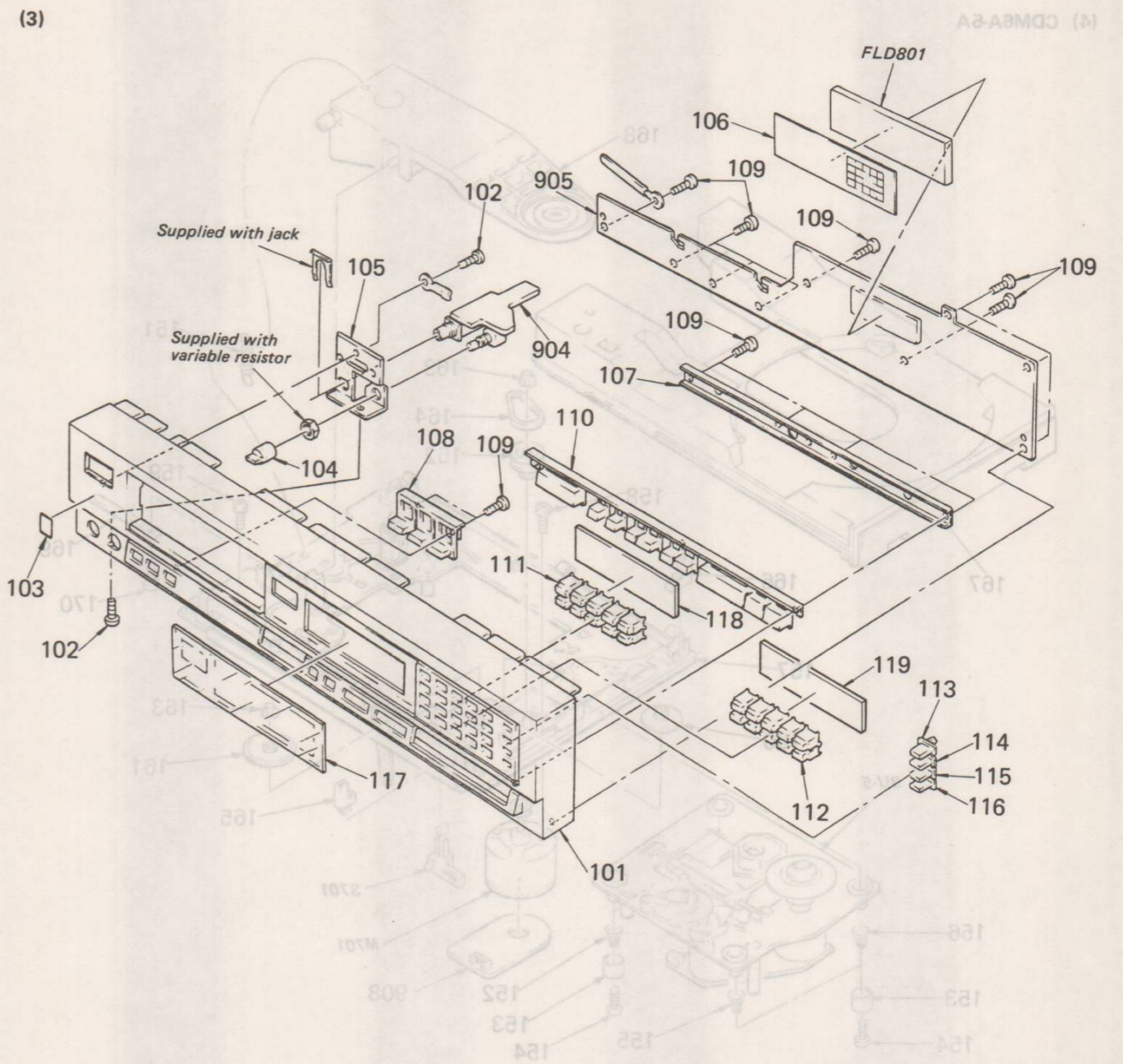


SECTION 3  
EXPLODED VIEWS AND PARTS LIST



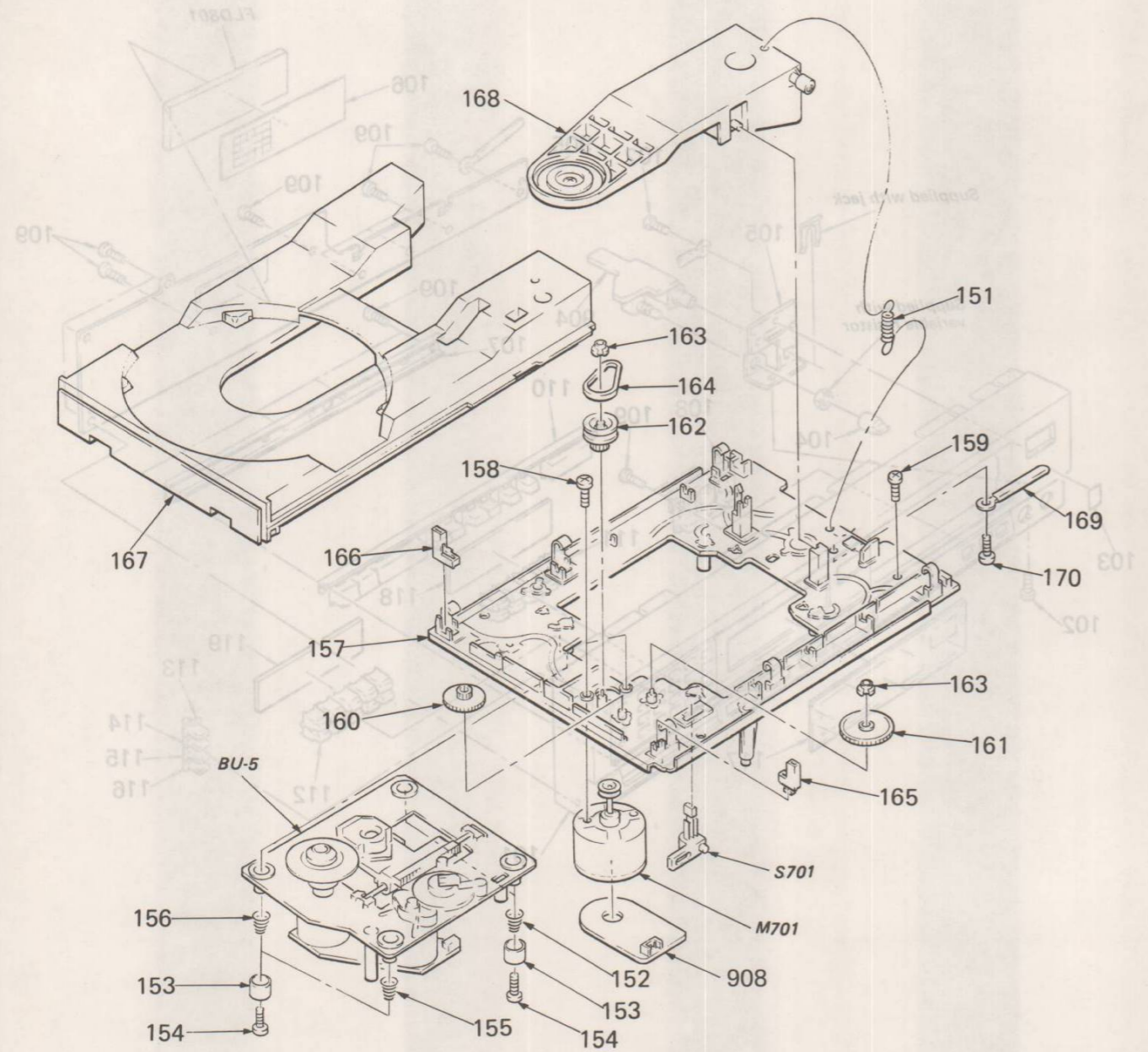
The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	4-917-460-01	KNOB, POWER		65	4-912-946-01	COVER, SWITCH	
52	*4-911-063-01	LEVER, POWER SWITCH		66	4-885-838-00	LABEL, CLASS 1	
53	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S		67	*3-701-948-14	LABEL, FUSE	
54	*4-918-118-21	(AEP)...PLATE, JACK		68	*3-701-748-00	(UK)...CLAMP	
	*4-918-118-31	(UK)...PLATE, JACK		69	*4-912-940-01	ESCUTCHEON, D/O	
55	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S		901	*1-622-278-11	PC BOARD, POWER SW	
56	7-685-660-11	SCREW +BVTP 4X10 TYPE2 N-S		902	*A-4651-134-A	MOUNTED PCB, MAIN	
57	*4-912-923-01	PLATE (A), GROUND		903	*1-622-279-11	PC BOARD, DIGITAL OUT	
58	7-685-872-09	SCREW +BVTT 3X8 (S)		906	1-533-183-11	HOLDER, FUSE	
59	*4-912-924-01	PLATE (B), GROUND		907	*1-535-137-00	BASE POST 14MM (10MM PITCH) 4P	
60	*4-902-345-01	HEAT SINK		CNJ401	1-562-999-21	JACK, PIN 2P (LINE OUT)	
61	*4-908-502-01	HEAT SINK		CNJ992	1-526-931-11	INLET, AC (— AC IN)	
62	7-682-147-15	SCREW, TR		F991	1-532-078-00	FUSE, TIME-LAG (1A)	
63	*4-912-930-01	PLATE, ORNAMENTAL, JACK		T993	1-448-718-11	TRANSFORMER, POWER	
64	*4-912-964-01	PLATE, SHIELD		TB901	*1-535-121-00	TERMINAL	



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	A-4636-243-C	PANEL (1) ASSY, FRONT		112	4-918-132-11	BUTTON, 10 GANG (11-20)	
102	7-682-147-09	SCREW +BVTT 3X6 (S)		113	4-918-124-11	PUSH BUTTON (+10)	
103	3-703-710-41	STICKER, SONY SYMBOL (12)		114	4-918-124-01	PUSH BUTTON (0)	
104	4-901-708-11	KNOB, LOV		115	4-918-124-31	PUSH BUTTON (CHECK)	
105	*4-912-922-01	BRACKET, HEADPHONE		116	4-918-124-21	PUSH BUTTON (CLEAR)	
106	*4-918-119-01	FILTER		117	4-918-120-02	PLATE, INDICATION	
107	*4-918-122-01	HOLDER, CONTROL BUTTON		118	*4-912-956-01	GUIDE, 10 KEY	
108	4-918-121-01	BUTTON, 3 GANG		119	*4-912-956-11	GUIDE, 10 KEY	
109	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S		904	*1-621-786-11	PC BOARD, HEADPHONE	
110	4-918-125-01	BUTTON, CONTROL		905	*1-621-785-11	PC BOARD, DISPLAY	
111	4-918-132-01	BUTTON, 10 GANG (1-10)		FLD801	1-519-411-11	INDICATOR TUBE, FLUORESCENT	

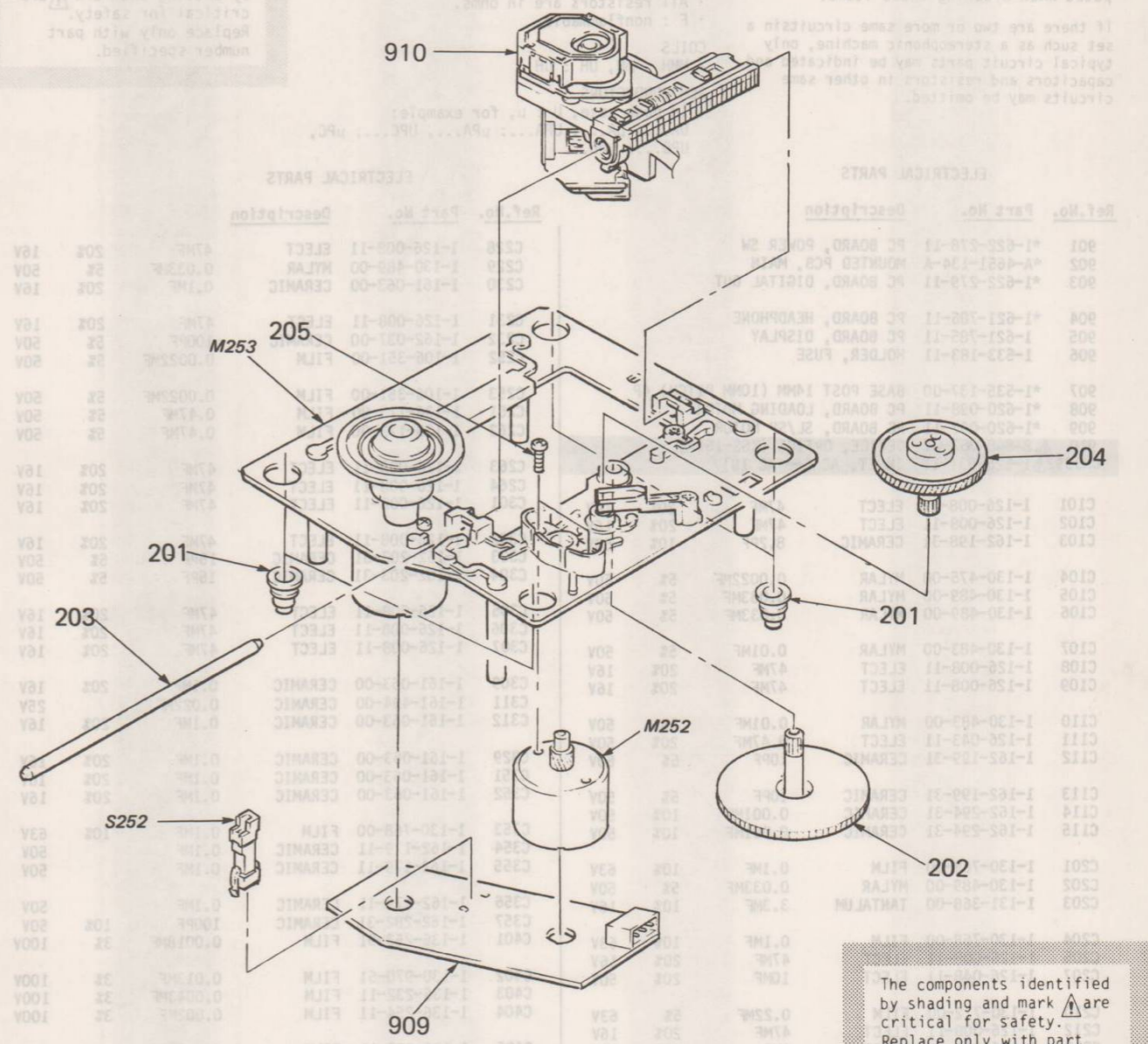
(4) CDM6A-5A



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	4-917-551-01	SPRING (ARM), TENSION		161	4-917-550-01	GEAR (A), LOADING	
152	4-917-507-01	SPRING (H)		162	4-917-546-01	PULLEY (A), LOADING	
153	4-917-508-01	HOLDER, SP		163	4-910-418-01	BUSHING (DIA. 4)	
154	7-685-535-19	SCREW +BVT 2.6X10 TYPE2 N-S		164	4-917-548-01	BELT, DRIVING	
155	4-917-541-01	SPRING (B)		165	*4-918-613-01	CUSHION (RIGHT)	
156	4-918-669-01	SPRING (W)		166	*4-918-612-01	CUSHION (LEFT)	
157	4-917-561-11	CHASSIS (OUTSERT), LOADING		167	A-4665-013-A	TABLE ASSY, DISK	
158	7-621-775-40	SCREW +B 2.6X8		168	A-4681-011-A	ARM ASSY, CHUCKING	
159	7-685-793-04	SCREW +BVT 2.6X8 (S)		169	3-701-822-00	HOLDER, WIRE	
160	4-910-402-01	GEAR (2), LOADING		170	7-621-259-25	SCREW +BVT 2.6X4 (S)	
				908	*1-620-098-11	PC BOARD, LOADING MOTOR	
				M701	A-4608-320-A	MOTOR ASSY, L	
				S701	1-570-203-11	SWITCH, LEAF (LOADING IN/OUT)	

(5) BU-5A

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



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201	4-917-562-01	INSULATOR		909	*1-620-097-11	PC BOARD, SL/SP MOTOR	
202	4-917-564-11	GEAR (P)		910	<b>A</b> 8-848-062-01	DEVICE, OPTICS (KSS-150A)	
203	4-917-565-01	SHAFT, SLED		M252	X-4917-504-1	ASSY, MOTOR (SLED)	
204	4-917-567-01	GEAR (M)		M253	X-4917-523-1	ASSY, MOTOR (SPINDLE)	
205	7-621-255-15	SCREW +P 2X3		S252	1-570-822-11	SWITCH, LEAF (LIMIT IN)	

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

SECTION 4 ELECTRICAL PARTS LIST

NOTE: Items marked " \* " are not stocked since they are seldom required for routine service.

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:µF, PF:µµF. RESISTORS: All resistors are in ohms. F : nonflammable

COILS MMH : mH, UH : µH

SEMICONDUCTORS In each case, U : µ, for example: UA...: µA..., UPA...: µPA..., UPC...: µPC, UPD...: µPD...

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

Table with columns: Ref.No., Part No., Description. Includes parts like 901 PC BOARD, POWER SW, 904 PC BOARD, HEADPHONE, 910 OPTICS (KSS-150A).

Table with columns: Ref.No., Part No., Description. Includes parts like C228 ELECT 47MF, C230 CERAMIC 0.1MF, C309 CERAMIC 0.1MF.

Table with columns: Ref.No., Part No., Description. Includes parts like C420 CERAMIC 470PF, C501 FILM 0.0018MF, C904 ELECT 470MF.

Table with columns: Ref.No., Part No., Description. Includes parts like CNJ355 JACK, PIN 1P, D902 DIODE 1SS202-1, F991 FUSE, TIME-LAG (1A).

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

ELECTRICAL PARTS

ELECTRICAL PARTS

ELECTRICAL PARTS

ELECTRICAL PARTS

Table with 3 columns: Ref.No., Part No., Description. Lists various electrical components like ICs, transformers, motors, and linkers.

Table with 3 columns: Ref.No., Part No., Description. Lists various electrical components like carbon resistors, metal resistors, and capacitors.

Table with 3 columns: Ref.No., Part No., Description. Lists various electrical components like carbon resistors, capacitors, and fuses.

Table with 3 columns: Ref.No., Part No., Description. Lists various electrical components like switches, key boards, and a transformer.

ACCESSORY & PACKING MATERIAL

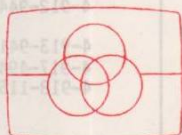
Table with 2 columns: Part No., Description. Lists accessories like remote commander, manual, and battery case.

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

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

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.

Symptom	Cause	Countermeasures
Play does not begin.	The disc is incorrectly inserted.	Insert the disc correctly.
	The disc is extremely dirty.	Clean the disc.
	The disc is inserted upside down.	Insert the disc with the label surface up.
	The <b>  </b> button has been pressed.	Press <b>  </b> again to release pause.
	Moisture condensation.	Leave the player turned on for about an hour.
No audio from one or both channels.	Incorrect connections.	Connect properly.
	The DIGITAL OUT switch is set to ON when using the LINE OUT jacks.	Set the DIGITAL OUT switch to OFF.



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