

CDP-M30

SERVICE MANUAL

AEP Model
UK Model

RTV servis Horvat

Kešinci, 31402 Semeljci

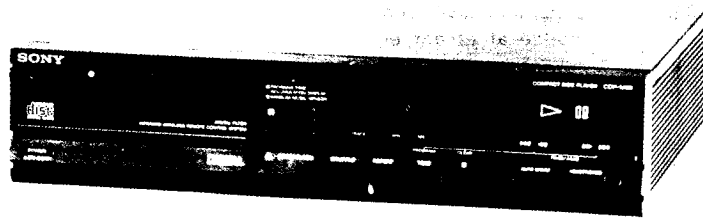
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Croatia



COMPACT
disc
DIGITAL AUDIO

SPECIFICATIONS

COMPACT DISC PLAYER

System	Compact disc digital audio system
Disc	Compact disc
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.
Spindle speed	200 r.p.m. to 500 r.p.m. (CLV)
Scan velocity	1.2 - 1.4 m/sec. Constant
Error correction	Sony Super Strategy Cross Interleave Reed Solomon Code
Number of channels	2
D-A conversion	16-bit linear
Frequency response	2 Hz - 20 kHz ($\pm 0.5 \text{ dB}$)
Signal to noise ratio	More than 95 dB
Dynamic range	More than 93 dB
Harmonic distortion	Less than 0.005% (at 1 kHz)
Channel separation	More than 90 dB
Wow and flutter	Below measurable limit ($\pm 0.001\% \text{ W PEAK}$)

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

Note

This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

General

Power requirements

UK model: 240 V AC

AEP model: 220 V AC

Supplied accessories

Power cord	1
Connecting cord (2 phono plugs \longleftrightarrow 2 phono plugs)	1
Remote commander	1
R6 (size AA) batteries	2
Remote control cord	—
AC plug adaptor	1

REMOTE COMMANDER RM-D50

Remote control system

Infrared control

Power requirements

3 V DC with two IEC R6 (size AA) batteries

Dimensions

43 x 20 x 175 mm (w/h/d)
(1 1/4 x 3/16 x 7 inches)

Weight

101 g (4 oz) including batteries



COMPACT DISC PLAYER SONY®

AUD

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

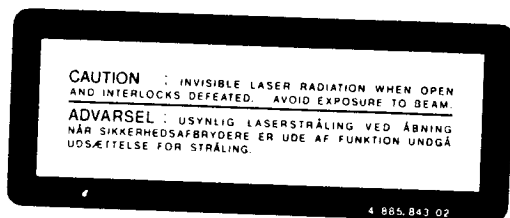
- Materiale: Ga-As
- Bølgelængde: 780 nm
- Udstråling: Kontinuerlig
- Laser Output: max. 0.4 mW*
- * målt i 1.6 mm afstand fra overfladen af objektiv-linsen på den optiske pick-up enhed.
- Klassifikation: Svarende til klasse IIIb

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.

LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

1. Advarsel Mærkning



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


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

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

Table of Contents

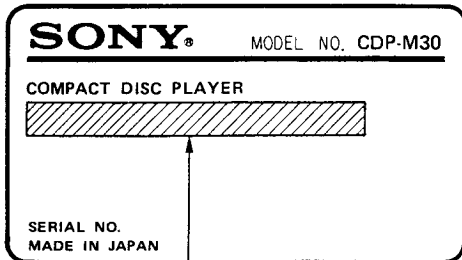
<u>Section Title</u>	<u>Page</u>
SPECIFICATIONS.....	1
SECTION 1 OUTLINE.....	5
SECTION 2 IC BLOCK DIAGRAM.....	7
SECTION 3 ADJUSTMENTS.....	11
SECTION 4 MOUNTING DIAGRAM.....	14
SECTION 5 SCHEMATIC DIAGRAM.....	17
SECTION 6 EXPLODED VIEWS AND PARTS LIST.....	20
SECTION 7 ELECTRICAL PARTS LIST.....	23
TROUBLESHOOTING.....	26

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.

MODEL IDENTIFICATION

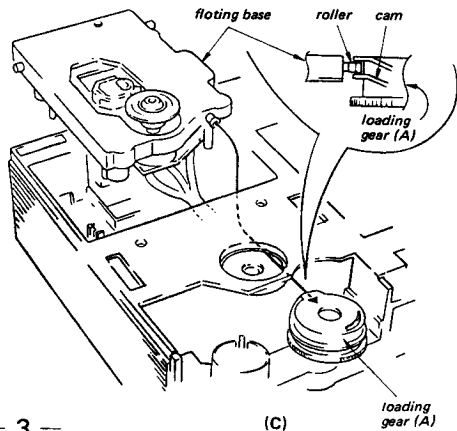
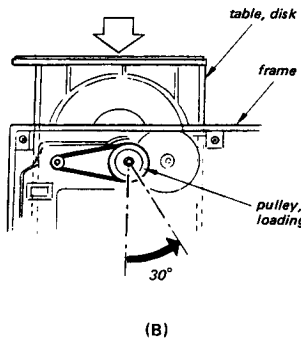
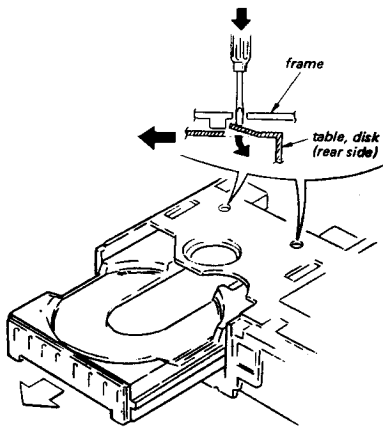
- Specifications Labels -



- AEP model: AC: 220 V – 50/60 Hz 12 W
- UK model: AC: 240 V – 50/60 Hz 12 W

NOTES ON REPAIR

- When removing the disk-table, put the small screwdriver into the hole. Pull off the disk-table toward you while pushing the screwdriver. See figure (A).
- When re-assembling the disk-table, rotate the loading pulley by 30-degree in the direction of the arrow by finger, and put the table slowly. See figure (B).
- When re-assembling the floating base, set it so that the floating-base roller is engaged with the cam of the loading gear (A). See figure (C).

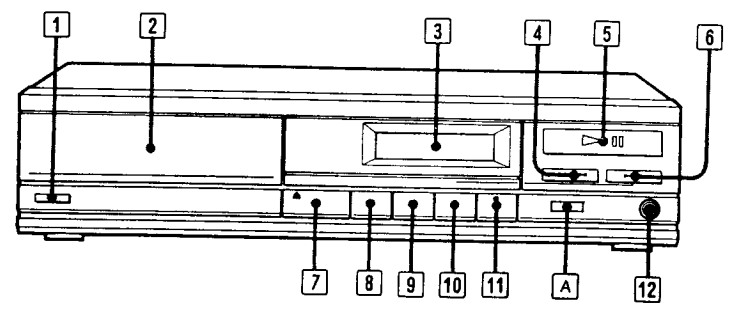


MEMO

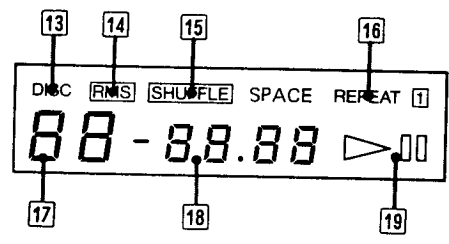
Series of horizontal lines for taking notes.

OUTLINE
LOCATION AND FUNCTION OF CONTROLS

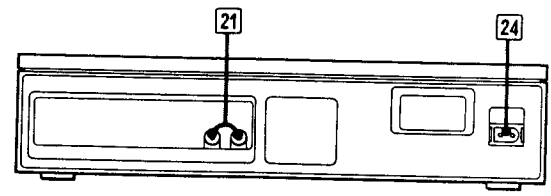
Front panel



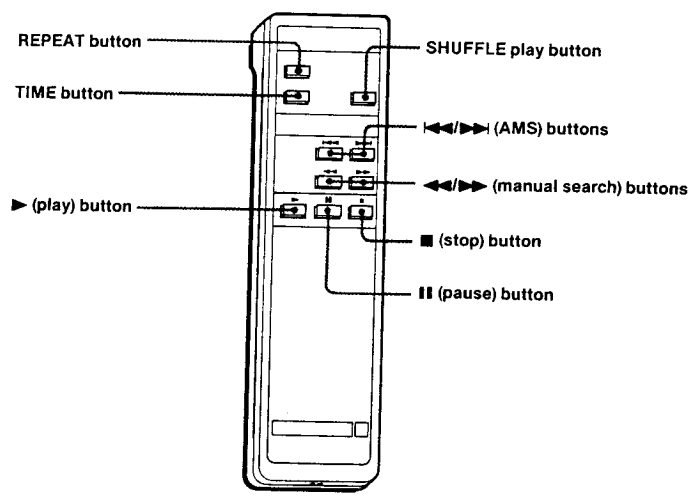
Display window



Rear panel



REMOTE CONTROL



Front panel

- 1 POWER switch**
- 2 Disc compartment**
- 3 Display window**
- 4 <<< (AMS/manual search) button**
Press momentarily to locate the beginning of the selection being played.
Keep the button pressed to go back at high speed.
- 5 >>> (play/pause) button**
Press to play during stop.
Press to pause during play.
Press to play during pause.
- 6 >>>> (AMS/manual search) button**
Press momentarily to skip to the beginning of the next selection.
Keep the button pressed to go ahead at high speed.
- 7 ▲ OPEN/CLOSE button**
Press to open or close the disc compartment.
- 8 SHUFFLE button**
Press to start shuffle play.
To release, press again.
- 9 REPEAT button**
Press once to repeat play.
- 10 TIME/PROGRAM button**
Press once during play to display the index number of the selection being played, and press again to display the remaining time of the whole disc or program.
Press during stop to program the desired selection.
- 11 ■/CLEAR (stop/clear) button**
Press to stop the disc play.
Press to clear the memory of the programmed selections one by one.
- A AUTO SPACE button and indicator**
Press to insert 3 seconds of blank space between selections.
- 12 HEADPHONES jack**
- 13 DISC indicator**
Lights up when a compact disc is inside or when the disc compartment is opened.

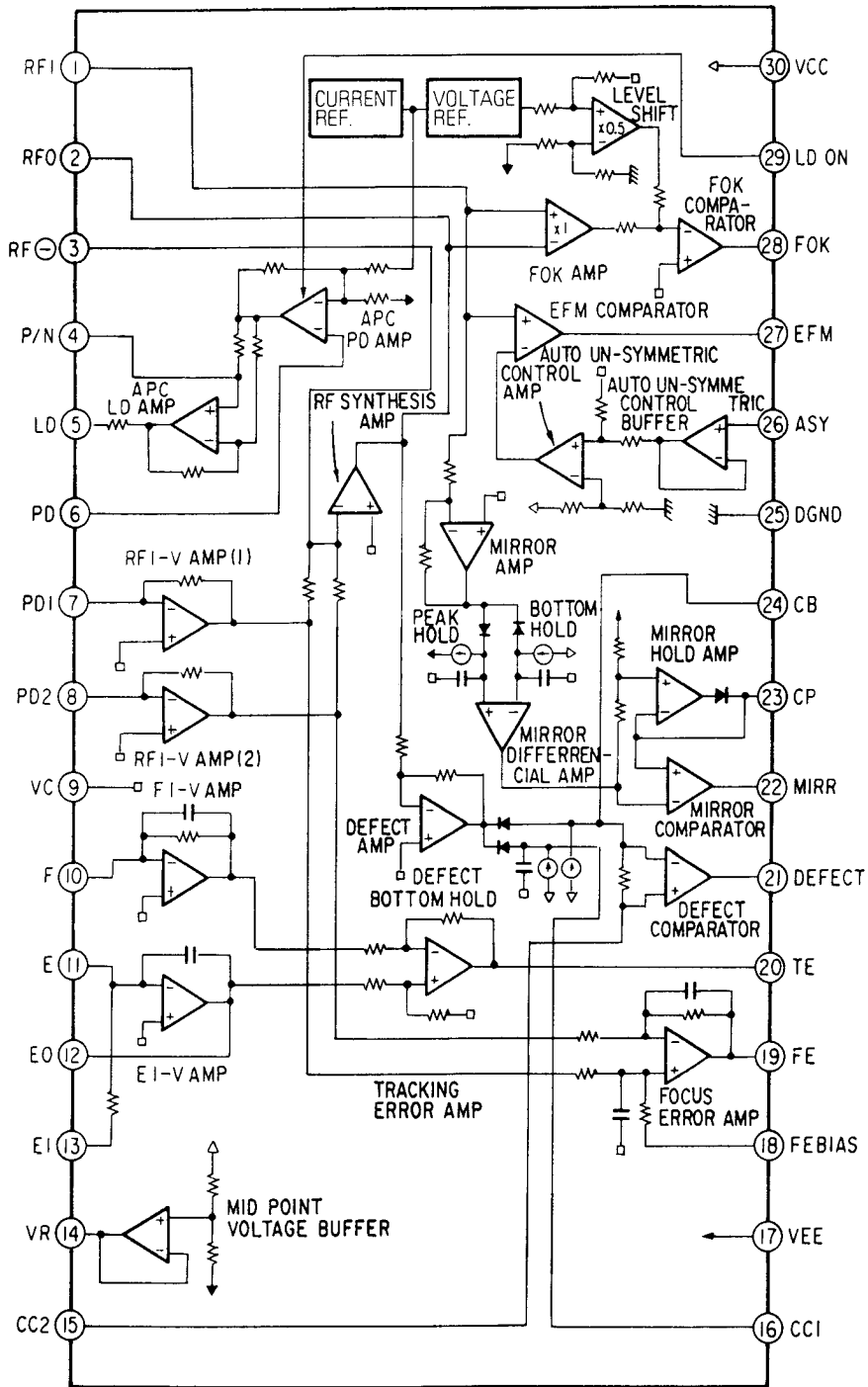
- 14 RMS indicator**
Lights up during programming of the selections and program play.
- 15 SHUFFLE indicator**
Lights up during shuffle play.
- 16 REPEAT indicator**
REPEAT 1: Lights up during repeat play of the selection being played.
REPEAT : Lights up during repeat play of the whole disc, program play or shuffle play.
- 17 TRACK indication**
Shows the track number of the selection being played.
When a disc is inserted, this indication shows the total selection number of the disc for a while.
- 18 TIME counter**
Shows the elapsed playing time of the selection being played in minutes and seconds. When the disc is inserted, this indication shows the total playing time of the disc for a while.
- 19 ► indicator**
Lights up during play.
- || indicator**
Lights up during pause.
- 21 LINE OUT (left/right) terminal**
- 24 AC IN jack**

SECTION 2

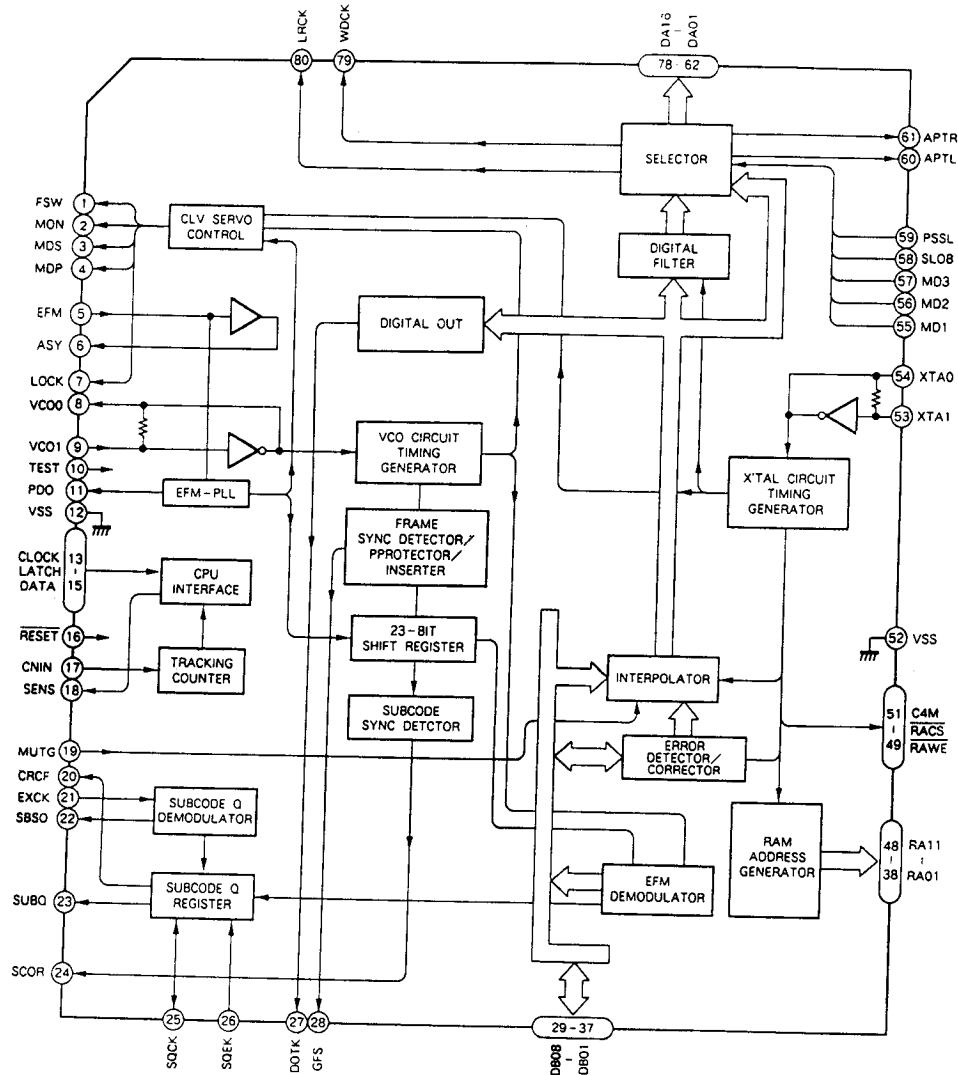
IC BLOCK DIAGRAM

• IC1

CXA-1081M (RF AMP/SIGNAL PROCESSOR/LASER ON CIRCUIT/MID POINT VOLTAGE GENERAT)

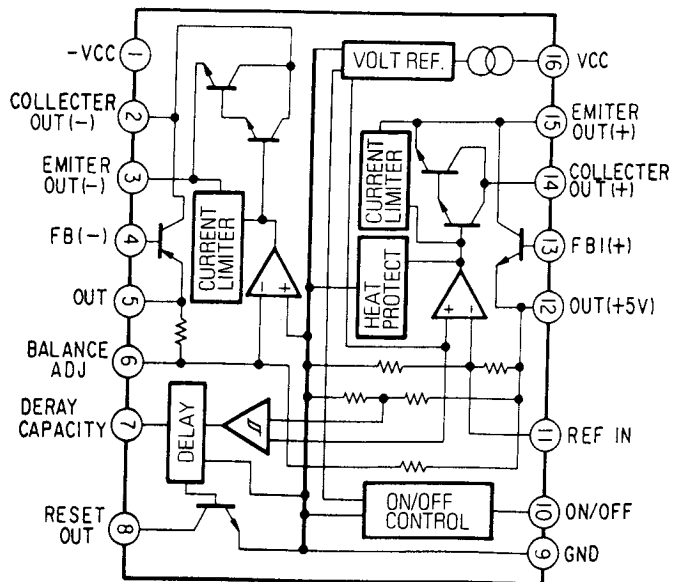
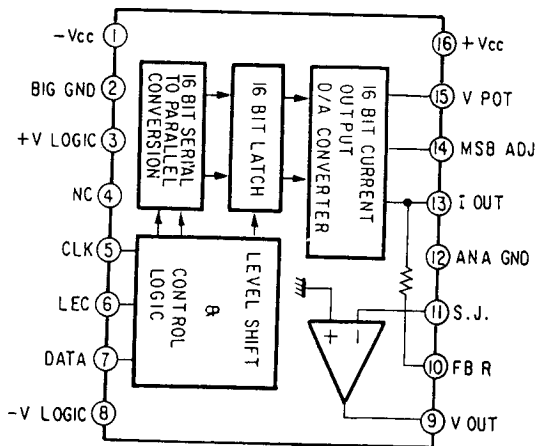


• IC3
CXD-1135Q (DIGITAL SIGNAL PROCESSOR/CLV SERVO)

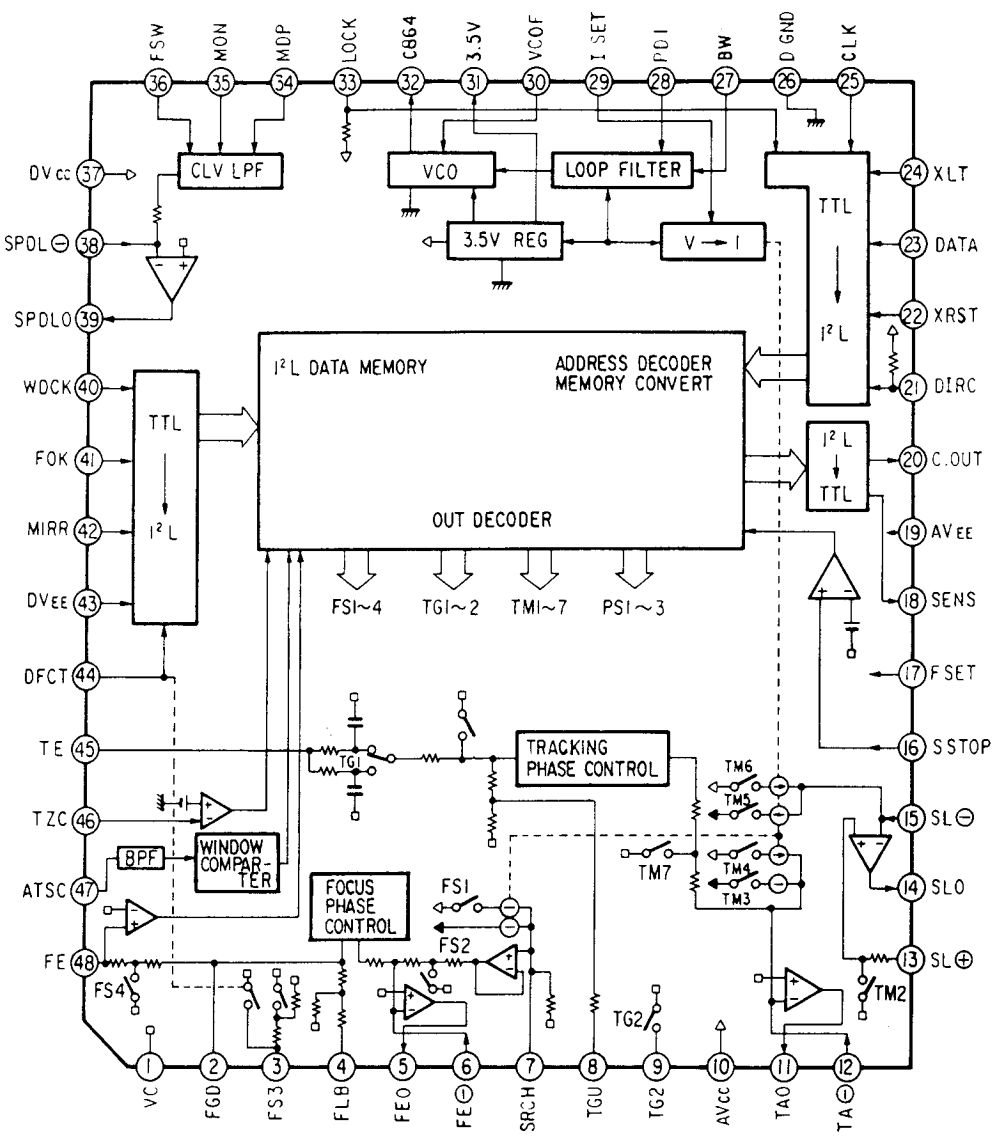


• IC8
M5290P (POWER)

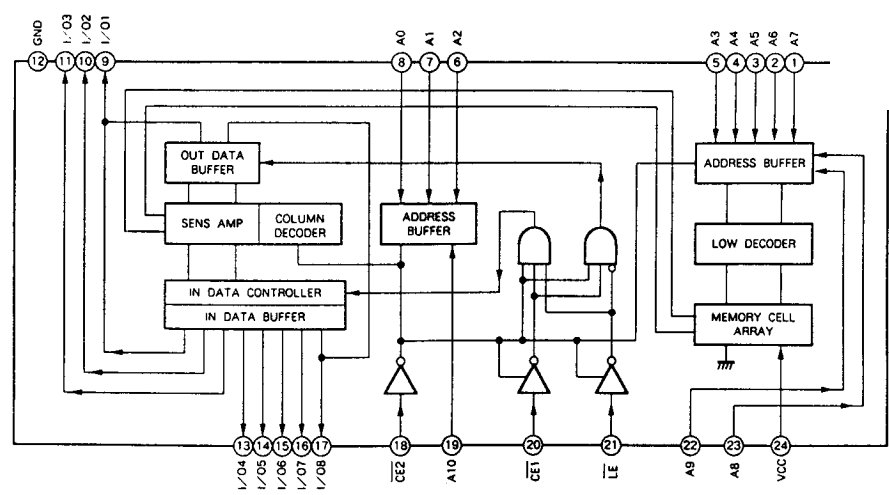
• IC10
PCM56P-S (D/A CONVERTER)



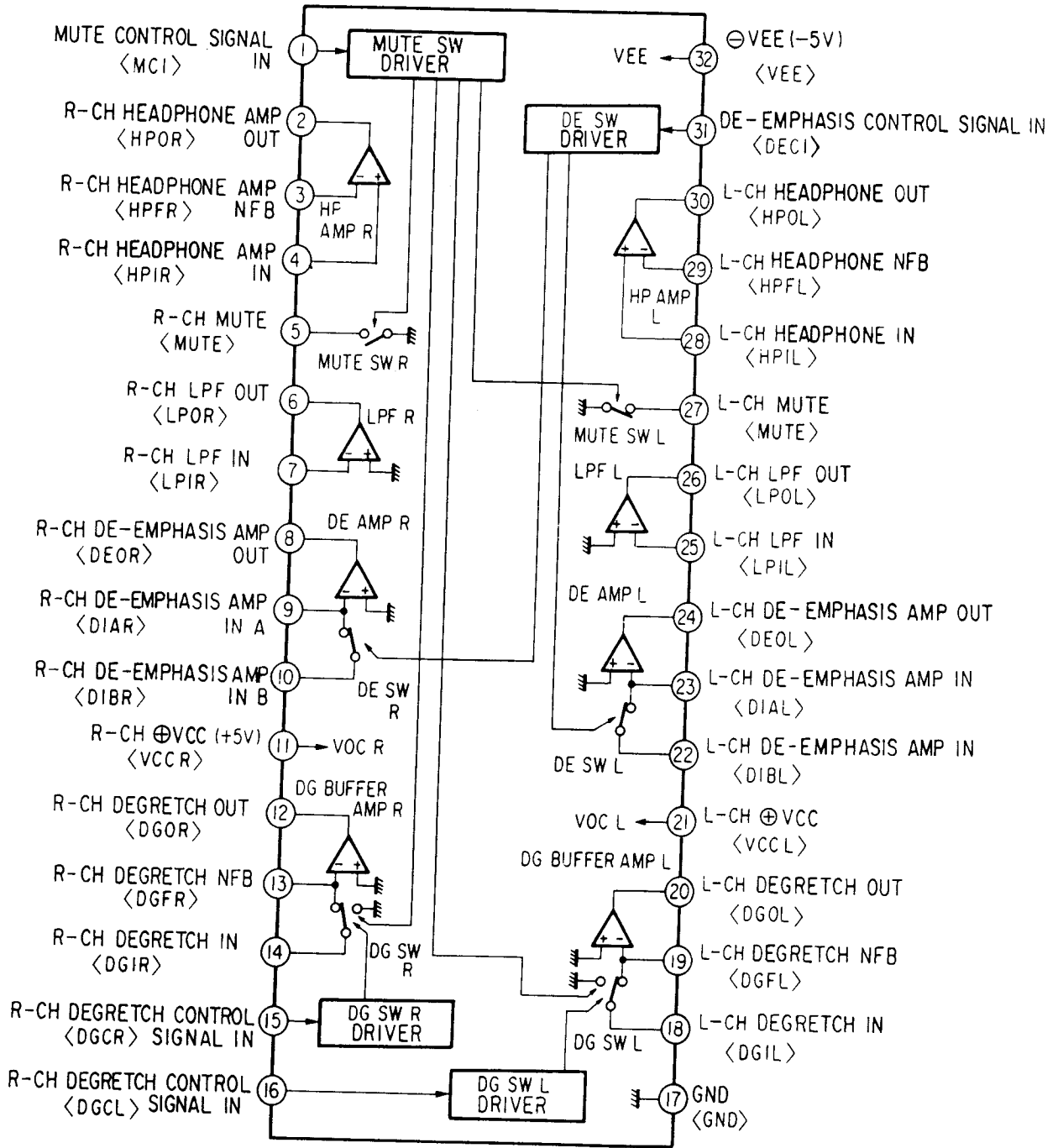
● IC2
 CXA-1082AQ (FOCUS/TRACKING/SLED SERVO)



● IC4
 LC-3516AML (16K BIT RAM)



• IC9
M51565P (AUDIO)



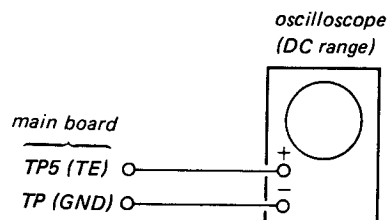
ELECTRICAL ADJUSTMENT

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

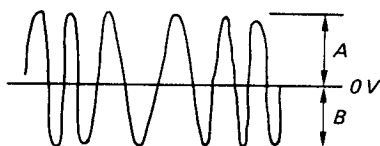
E-F BALANCE ADJUSTMENT

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

Procedure:

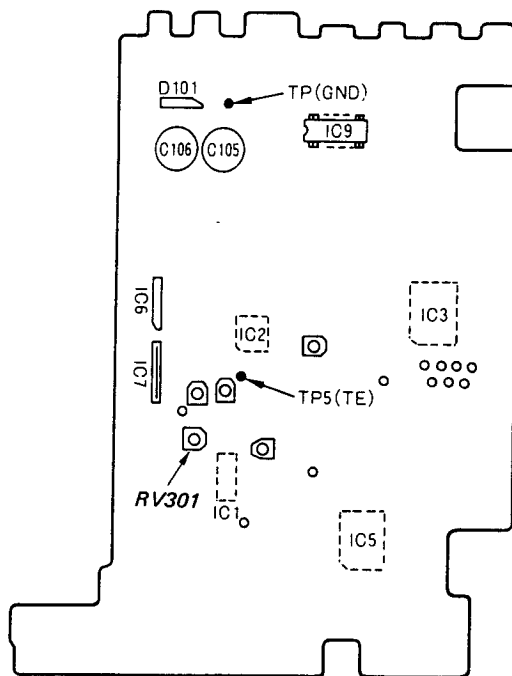


1. Connect oscilloscope to test point TP5 (TE) and ground.
2. Turn POWER switch on.
3. Put disc (YEDS-1) in and press ▷ button.
4. Press ◀◀ FF or ▶▶ REW button.
5. Adjust RV301 for a vertically-symmetrical waveform as shown below. (A = B).



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

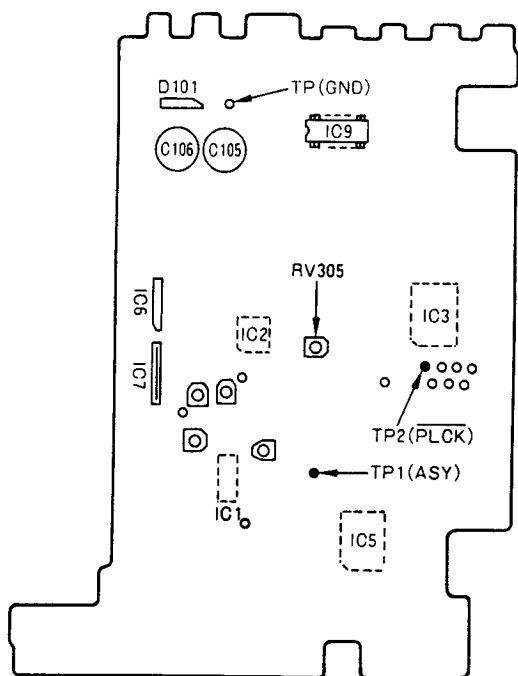
Adjustment Location: main board



RF PLL FREE-RUN FREQUENCY CHECK

1. Ground both test points TP1 (ASY).
2. Press OPEN/CLOSE button and open the disk holder.
3. Check for 4.3218 MHz at test point TP2 (PLCK) using a frequency counter. If not, adjust RV305.

Adjustment Location: main board

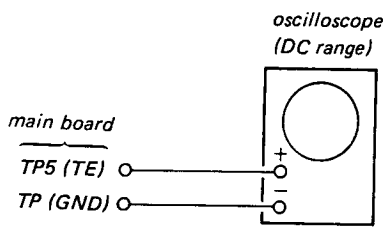


F
T
P

BALANCE ADJUSTMENT

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

Procedure:



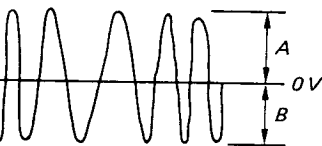
Connect oscilloscope to test point TP5 (TE) and ground.

Turn POWER switch on.

Put disc (YEDS-1) in and press ▷ button.

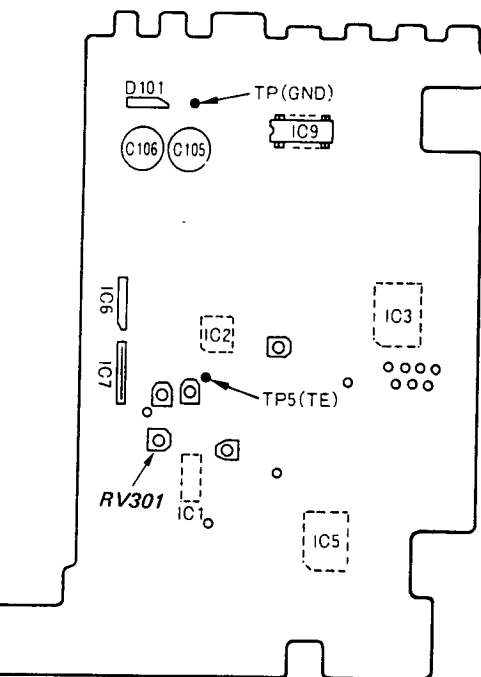
Press ◀◀ FF or ▶▶ REW button.

Adjust RV301 for a vertically-symmetrical waveform as shown below. (A = B).



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

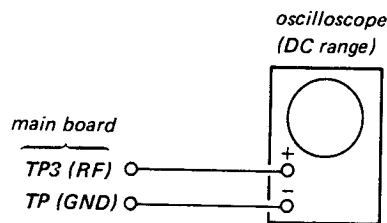
Adjustment Location: main board



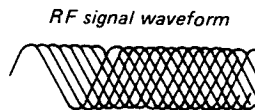
Focus Bias Adjustment

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

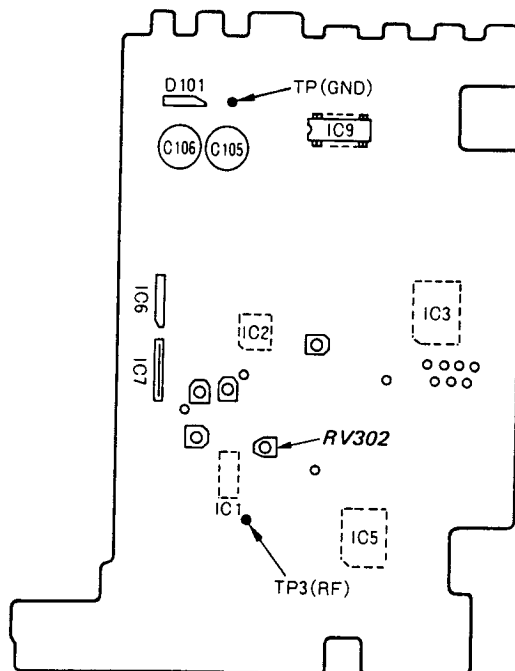
Procedure:



1. Connect oscilloscope to test points TP3 (RF) and ground.
2. Turn POWER switch on.
3. Put disc (YEDS-1) in and press ▷ button.
4. Adjust RV302 for an optimum waveform eye pattern or so that the peak is maximum. Optimum eye pattern means that shape "◊" can be clearly distinguished at the center of the waveform.



Adjustment Location: main board



REFERENCE

Focus/Tracking G

A frequency adjustment is required in order to perform tracking. However, this adjustment is slightly off, there will be tracking error. Perform this adjustment.

Focus/tracking error (vertical and horizontal) and noise and mechanical shock will not operate.

However, as the disc is at the point where the disc is

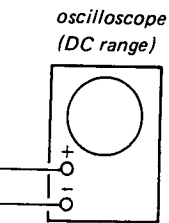
- When gain is too high, the device operates normally.
- When gain is too low, the mechanical shock will occur.
- When gain adjustment is not correct, the disc will appear.

Symptoms

- The time until music starts becomes longer for →▷PLAY or auto selection (◀◀ ▶▶) pressed. (Normally, about 2 seconds.)
- Music does not start for STOP →▷PLAY automatic selector. ▶▶▶ buttons pressed.
- Disc table opens slowly after STOP →▷PLAY.
- Sound is interrupted during PLAY. Or timer display stops processing.
- More noise during device operation.

REFERENCE

made when replacing

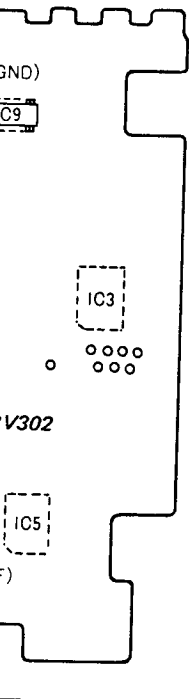


test points TP3 (RF)

press ▷ button.

imum waveform eye
k is maximum. Opti-
at shape "◊" can be
e center of the wave-

ard



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.

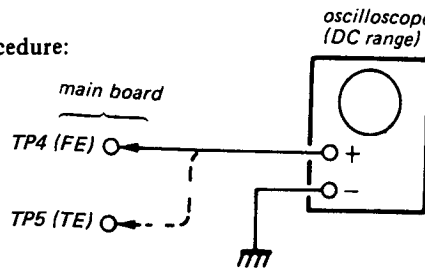
Symptoms	Gain	Focus	Tracking
• The time until music starts becomes longer for STOP →▷PLAY or automatic selection (◀▶▶▶) buttons pressed. (Normally takes about 2 seconds.)		low	low or high
• Music does not start and disc continues to rotate for STOP →▷PLAY or automatic selection (◀▶▶▶) buttons pressed.)		—	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

The following is a simple adjustment method.

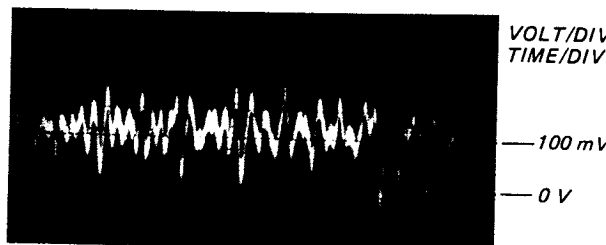
– Simple Adjustment –

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

Procedure:



1. Keep the set horizontal.
(If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.)
2. Insert disc (YEDS-1) and press ▷ PLAY button.
3. Connect oscilloscope to main amp board TP4 (FE).
4. Adjustment RV303 so that the waveform is as shown in the figure below. (focus gain adjustment)

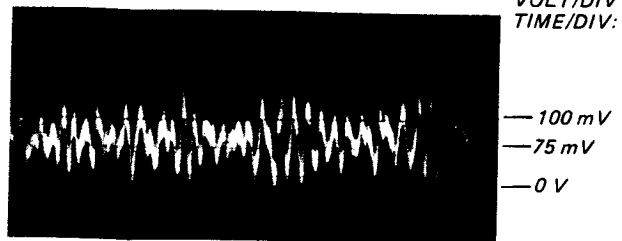


- Inccorrent Examples (DC level changes more than on adjusted waveform)

low focus gain



high focus gain

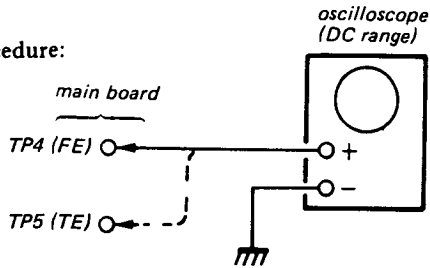


The following is a simple adjustment method.

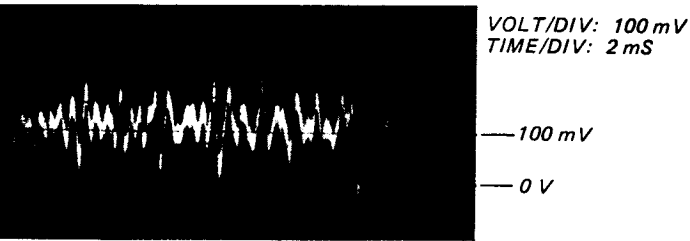
– Simple Adjustment –

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

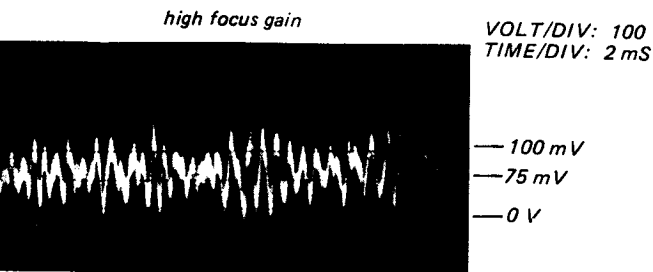
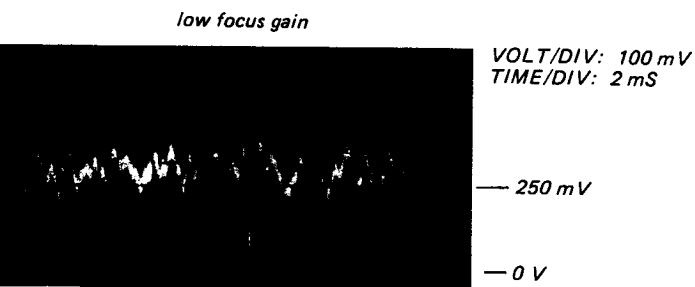
Procedure:



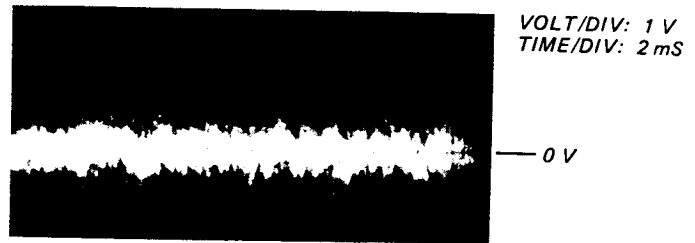
1. Keep the set horizontal.
(If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.)
2. Insert disc (YEDS-1) and press ▷ PLAY button.
3. Connect oscilloscope to main amp board TP4 (FE).
4. Adjustment RV303 so that the waveform is as shown in the figure below. (focus gain adjustment)



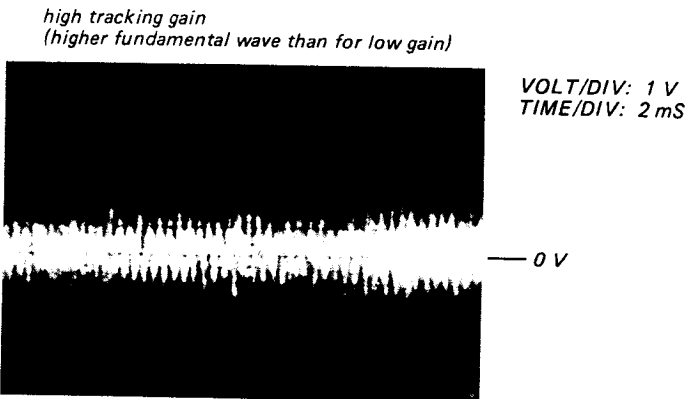
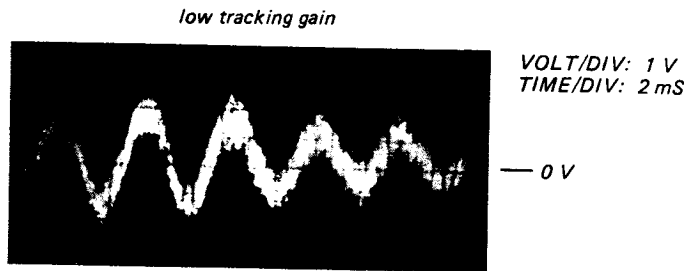
• Incorrect Examples (DC level changes more than on adjusted waveform)



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

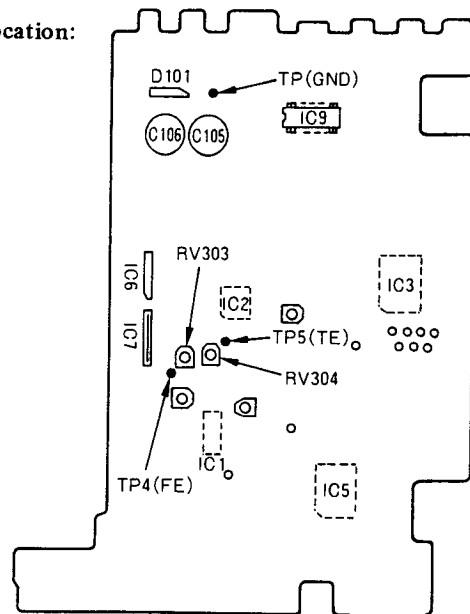


• Incorrect Examples (fundamental wave appears)



Adjustment Location:

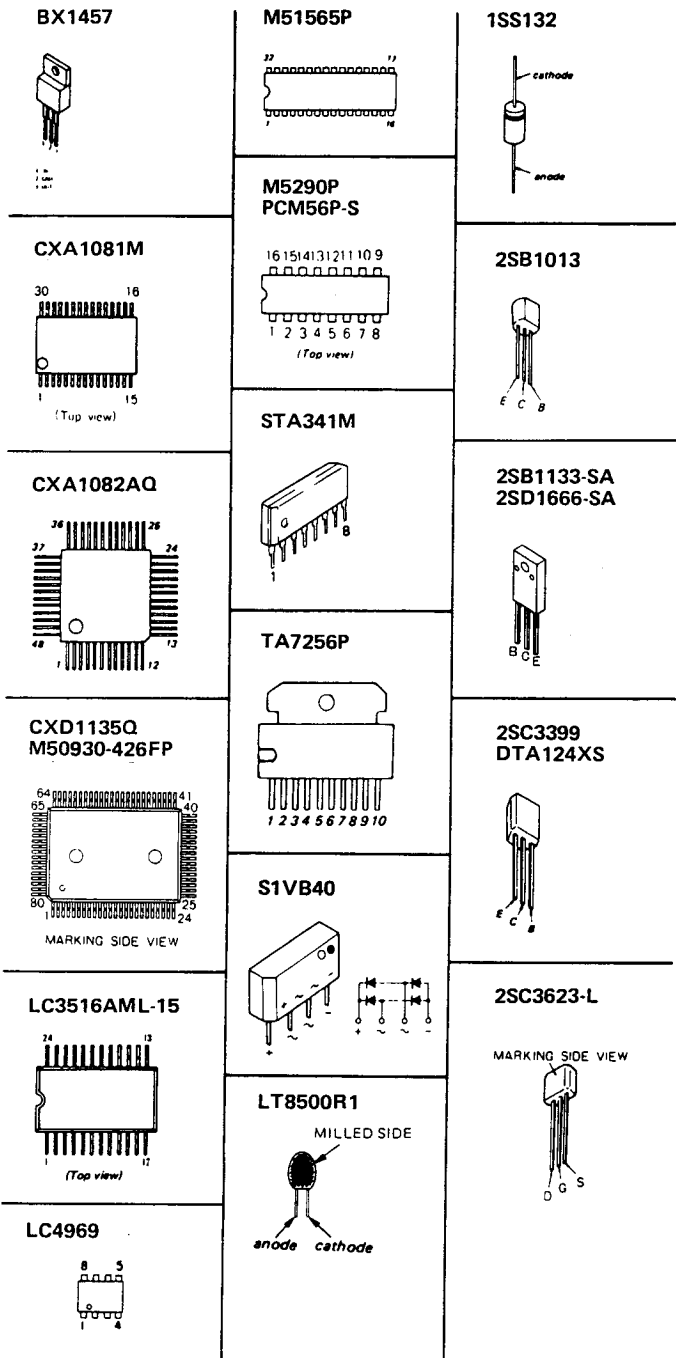
main board



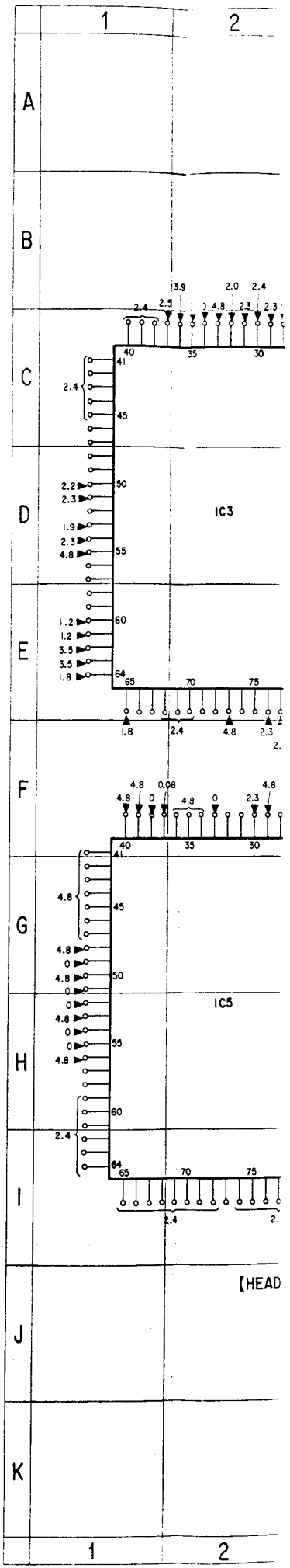
SECTION 4 MOUNTING DIAGRAM

● Semiconductor Lead Layouts

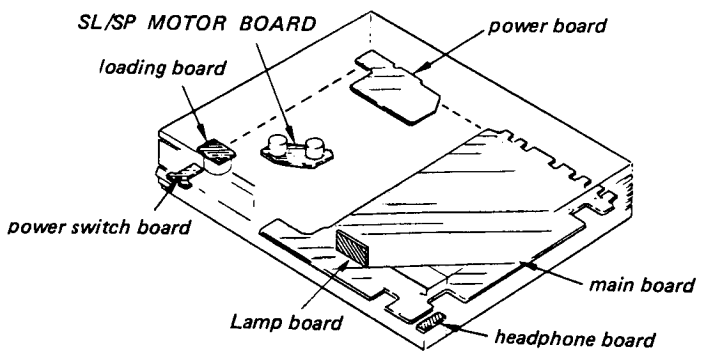
● Semiconductor Locations



Ref. No.	Location
D101	B-9
D201	D-8
D202	C-8
D203	D-8
D204	D-8
D205	C-8
IC1	H-8
IC2	E-8
IC3	E-5
IC4	D-5
IC5	I-6
IC6	E-9
IC7	G-9
IC8	D-9
IC9	C-7
IC10	C-5
IC11	H-11
IC12	C-5
Q1	C-9
Q2	D-9
Q3	I-9
Q4	D-7
Q5	E-7
Q6	J-9
Q7	C-8
Q8	B-5
Q9	B-5
Q10	B-7
Q11	D-7



CIRCUIT BOARD LAYOUT

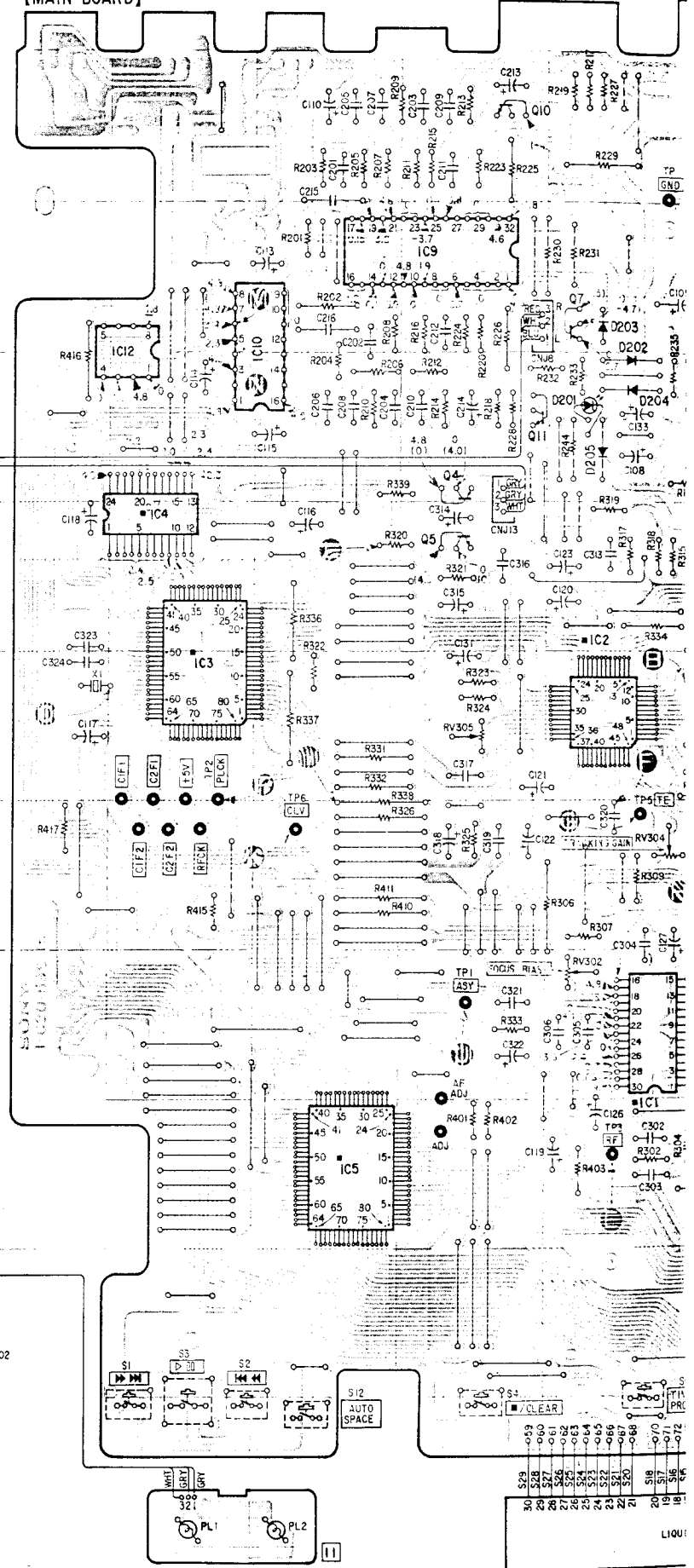
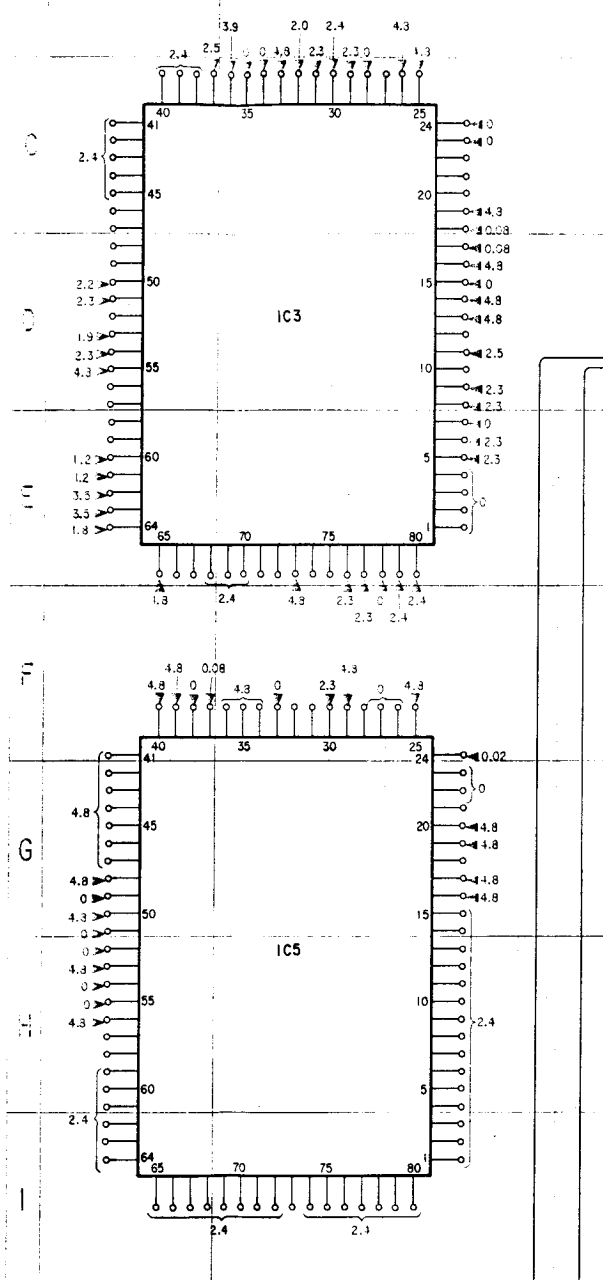


○ : parts extracted from the component side.

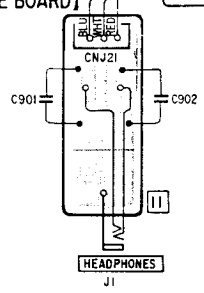
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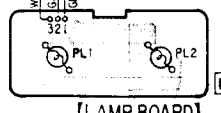
[MAIN BOARD]



[HEADPHONE BOARD]



[LAMP BOARD]



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031-856-139

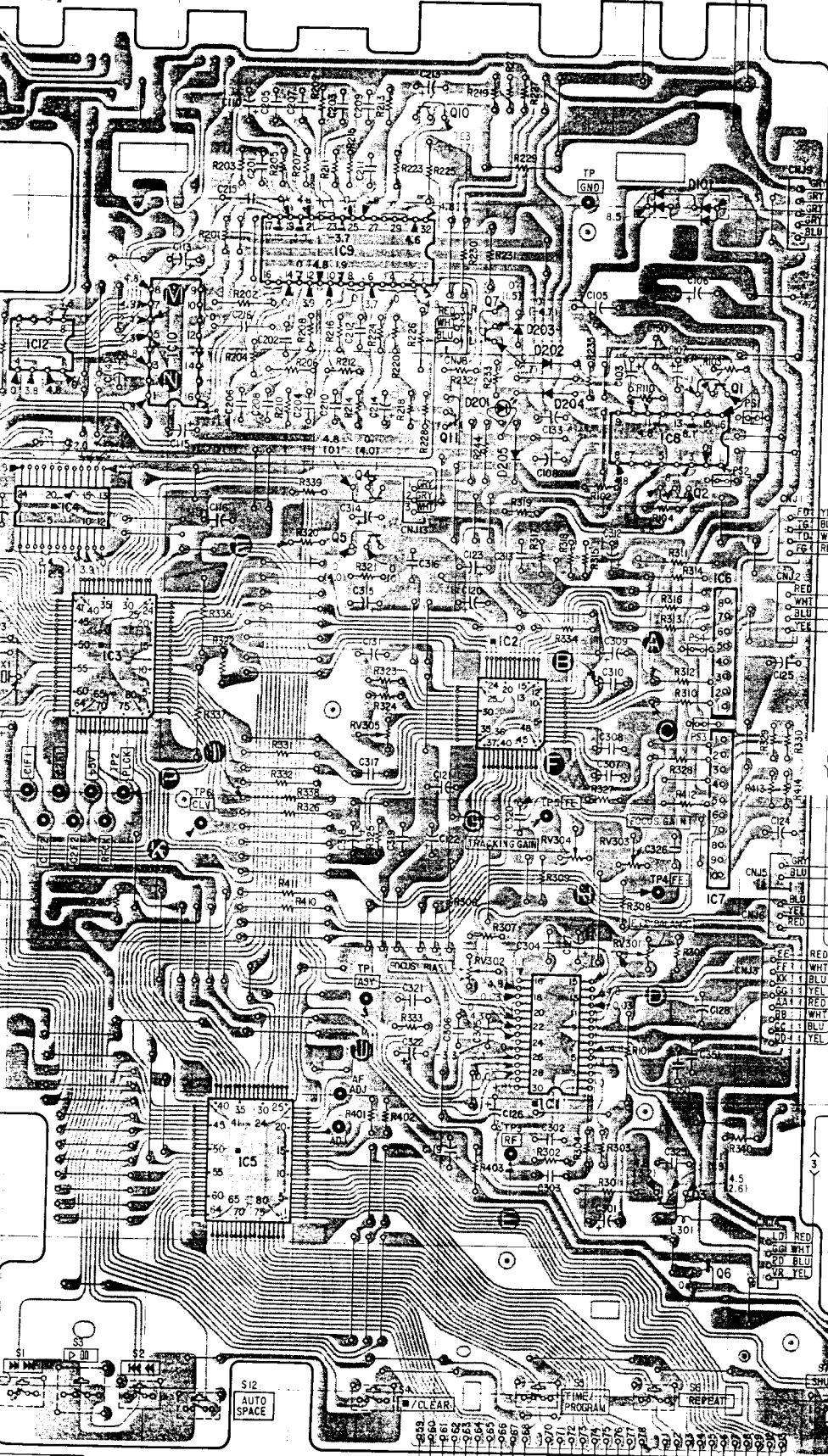
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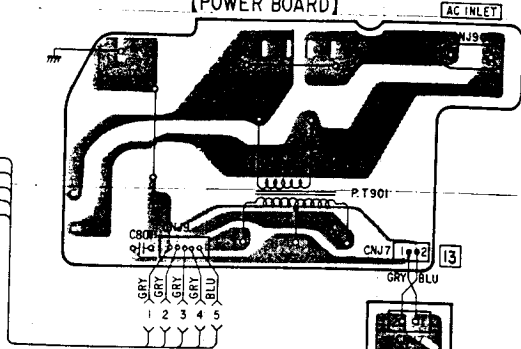
rtv-servis-horvat@os.tel.hr

Croatia

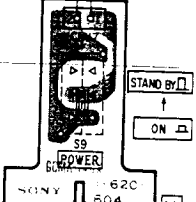
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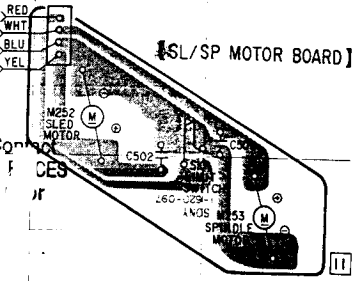
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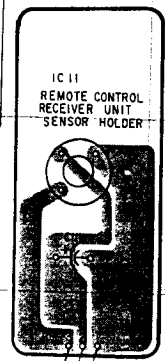
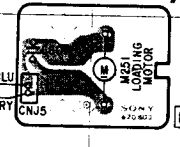
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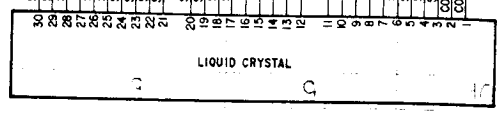
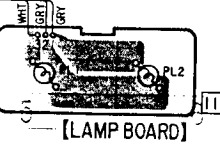
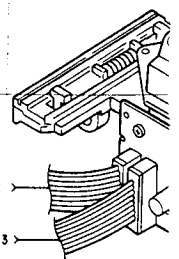
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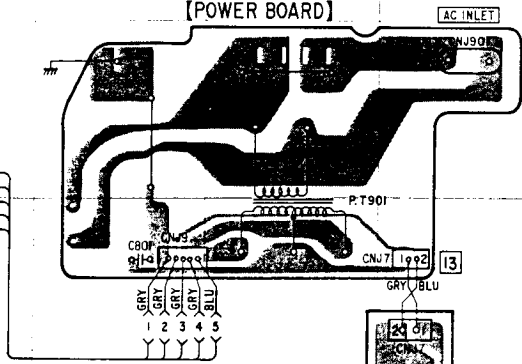
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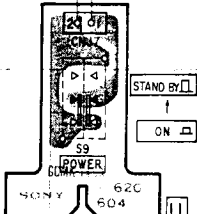
[OPTICAL I KSS-15]



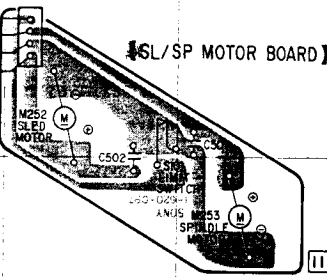
[POWER BOARD]



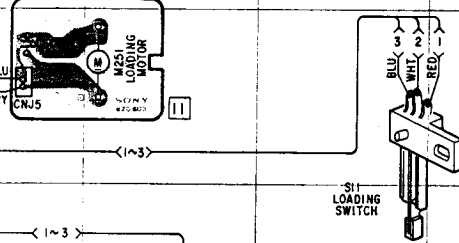
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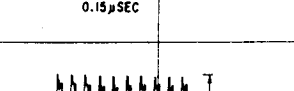
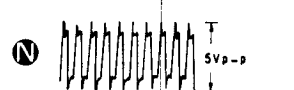
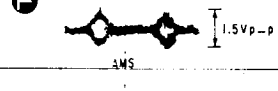
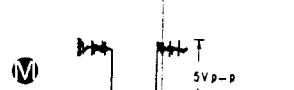
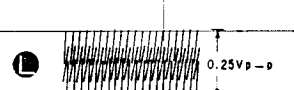
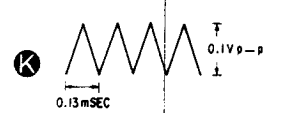
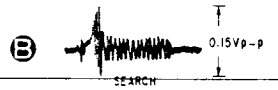
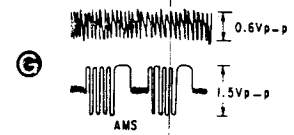
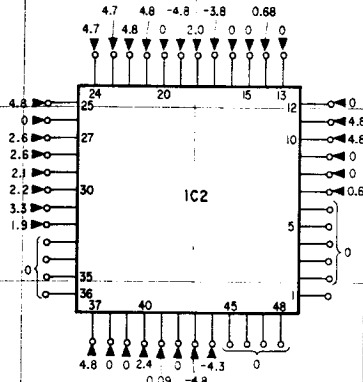
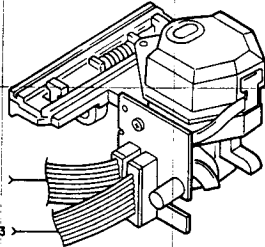
[SL/SP MOTOR BOARD]



[LOADING BOARD]

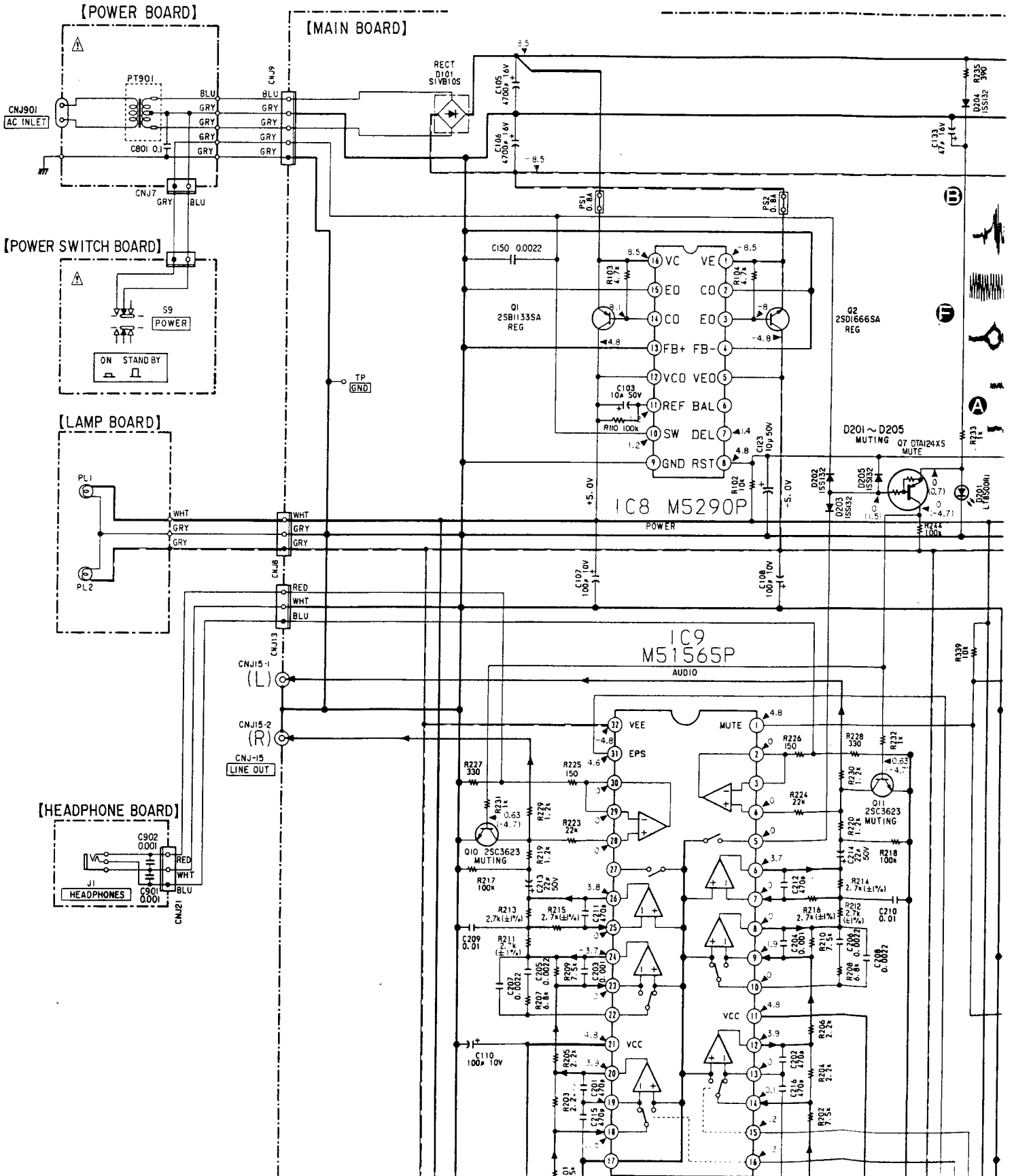


[OPTICAL PICKUP] KSS-150A



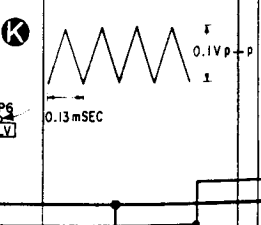
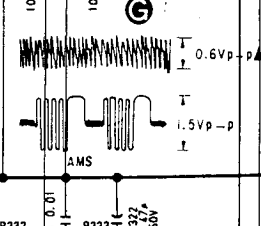
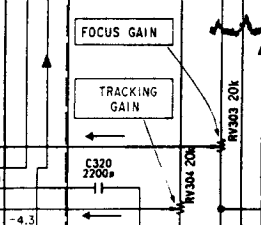
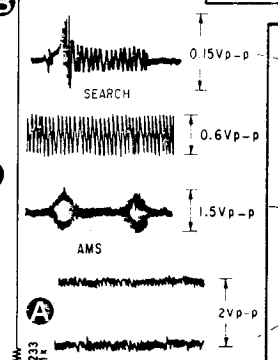
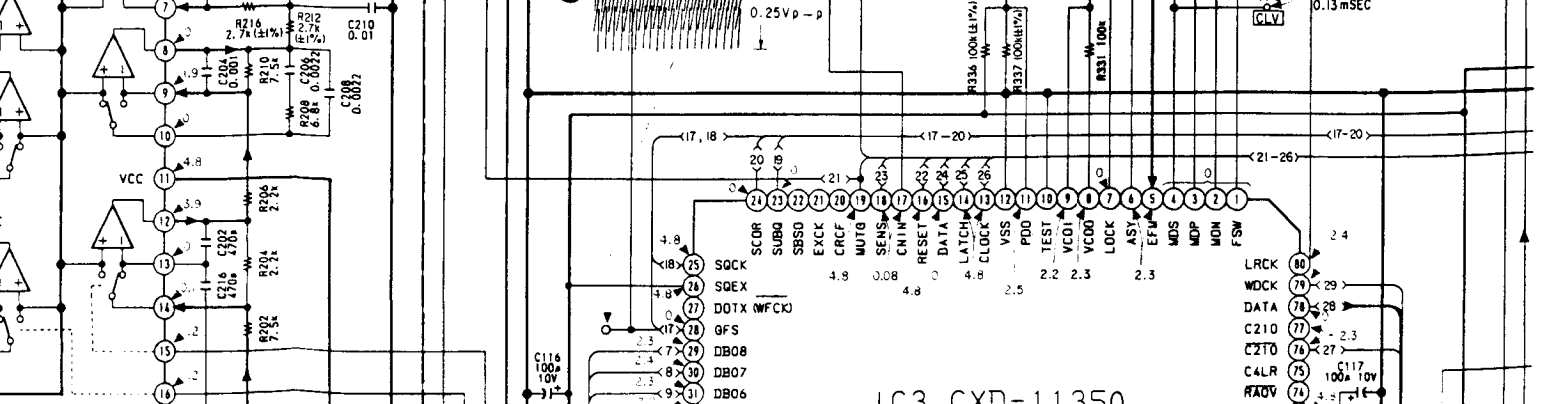
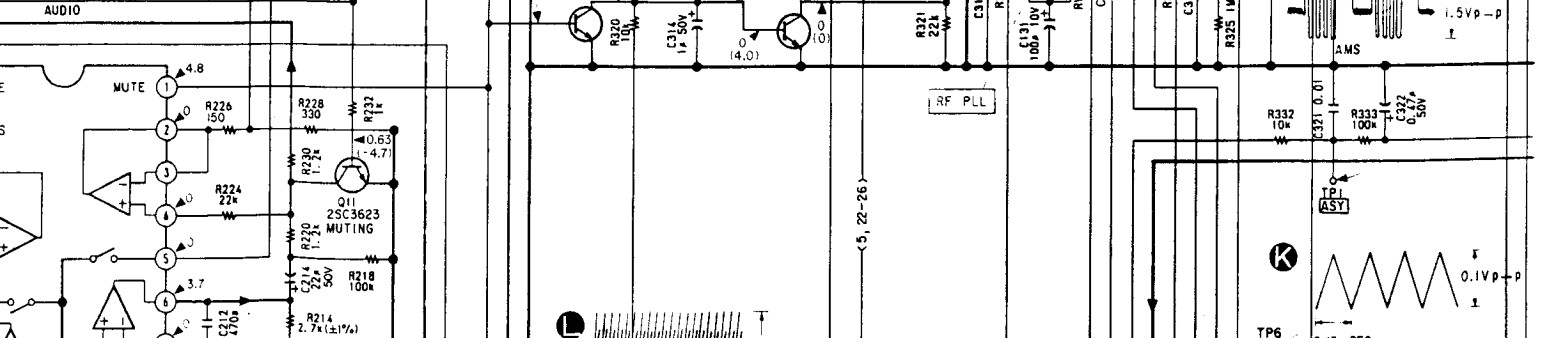
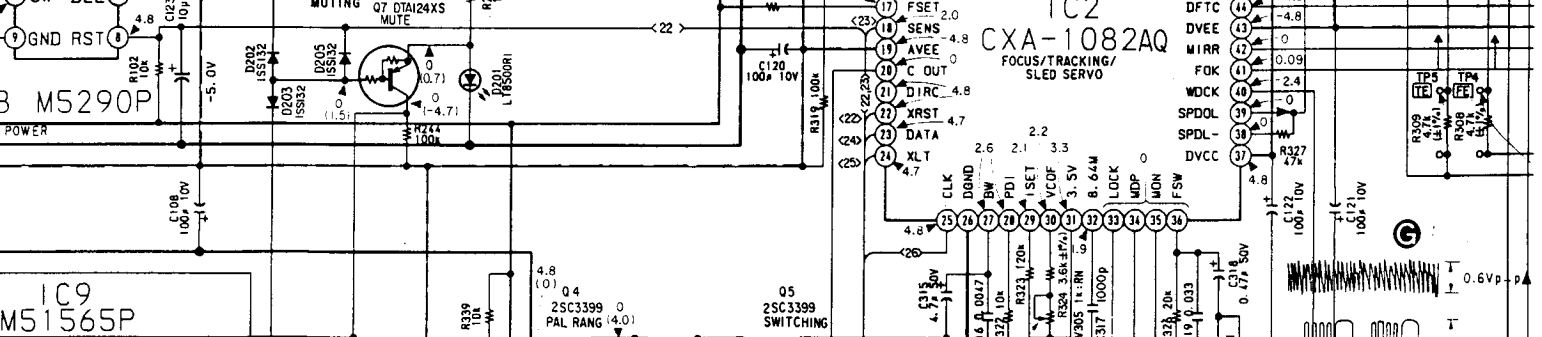
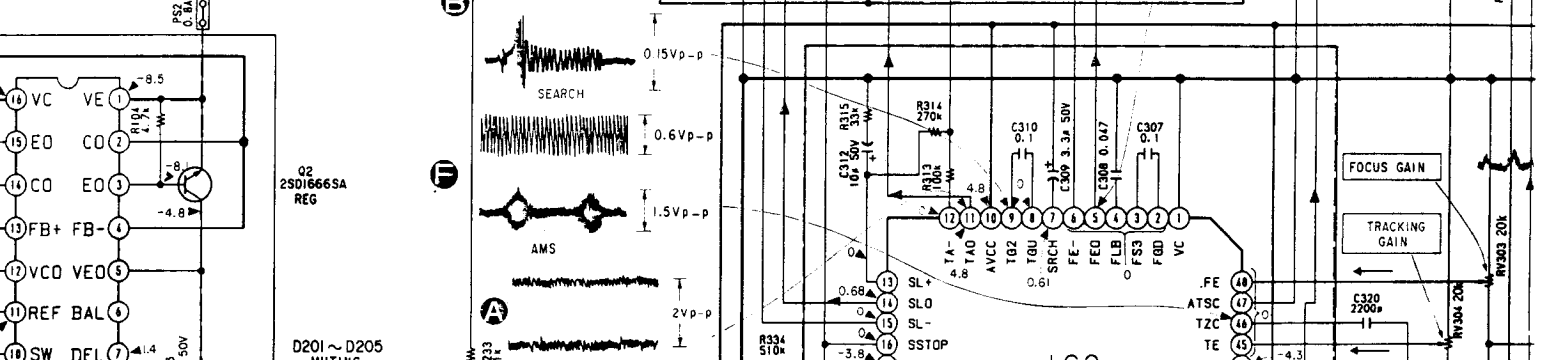
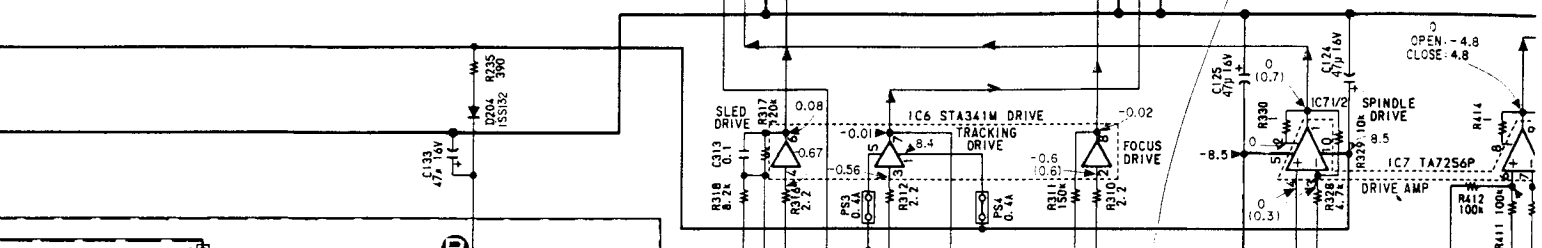
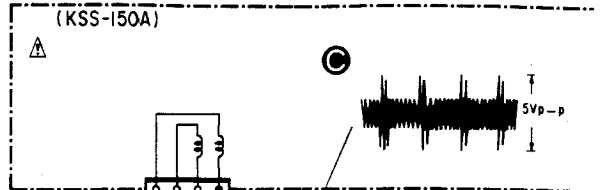
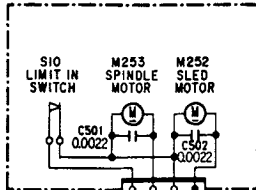
SECTION 5 SCHEMATIC DIAGRAM

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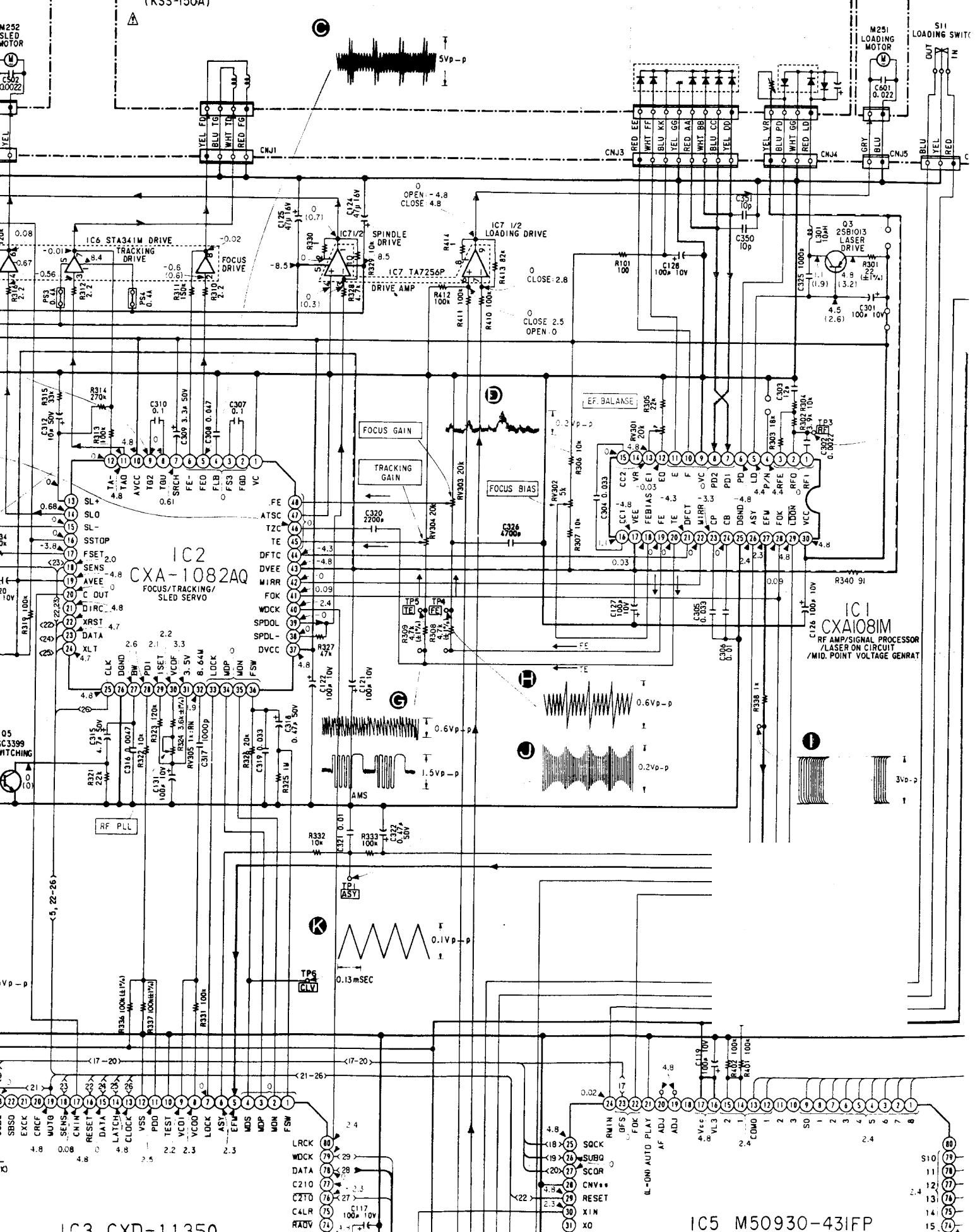
(SL/SP MOTOR BOARD)

(OPTICAL PICKUP BLOCK)



IC3 CXD-1135Q


[CARD] [OPTICAL PICKUP BLOCK] (KSS-150A) [LOADING BOARD]

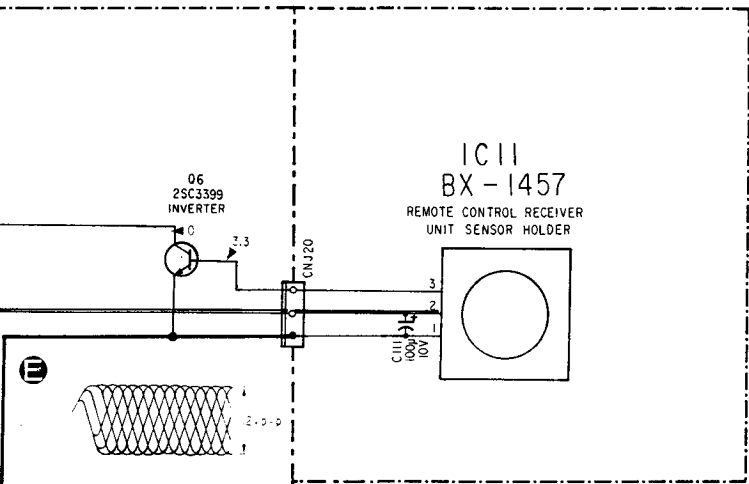
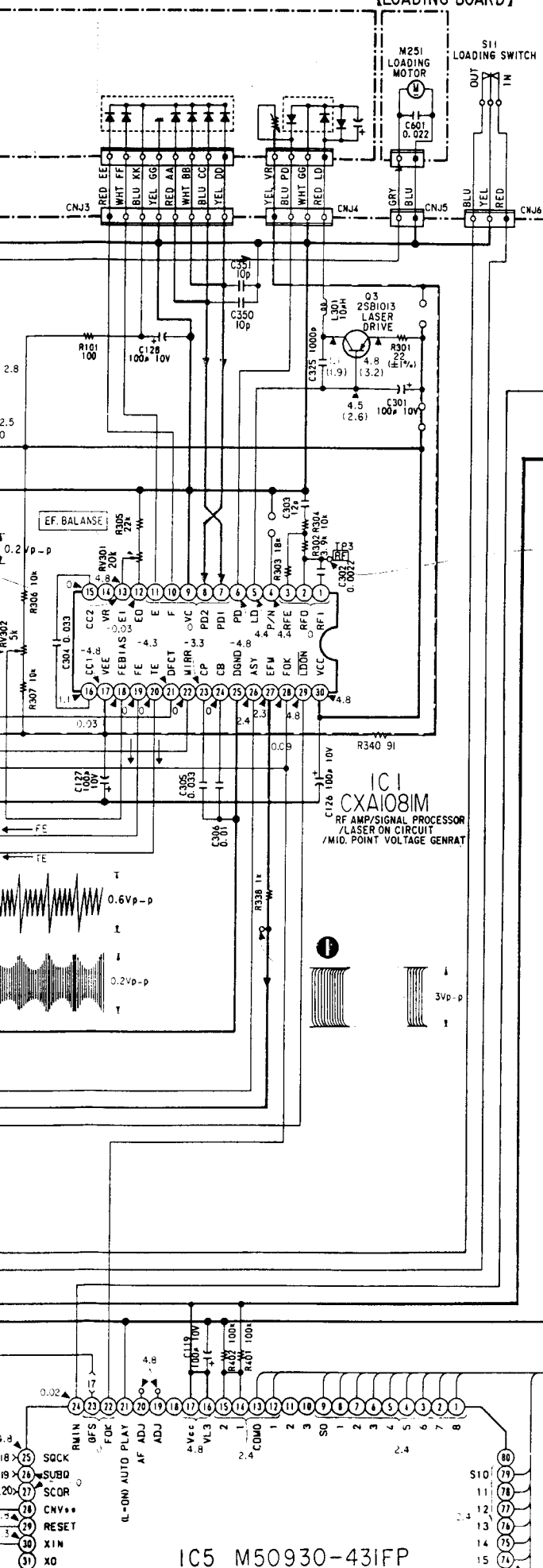


IC3 CXD-1135Q

IC5 M50930-431FP

[LOADING BOARD]

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



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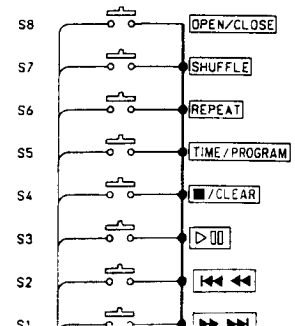
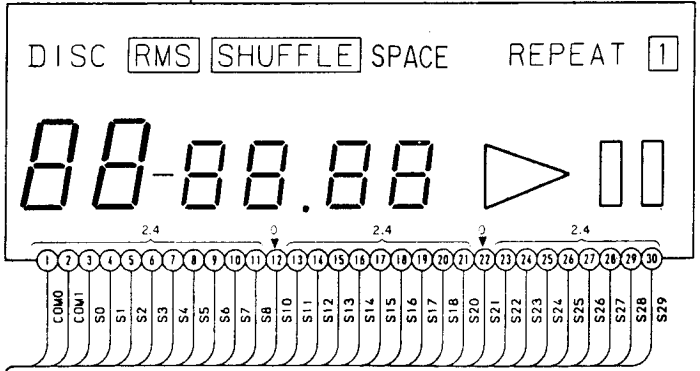
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Croatia

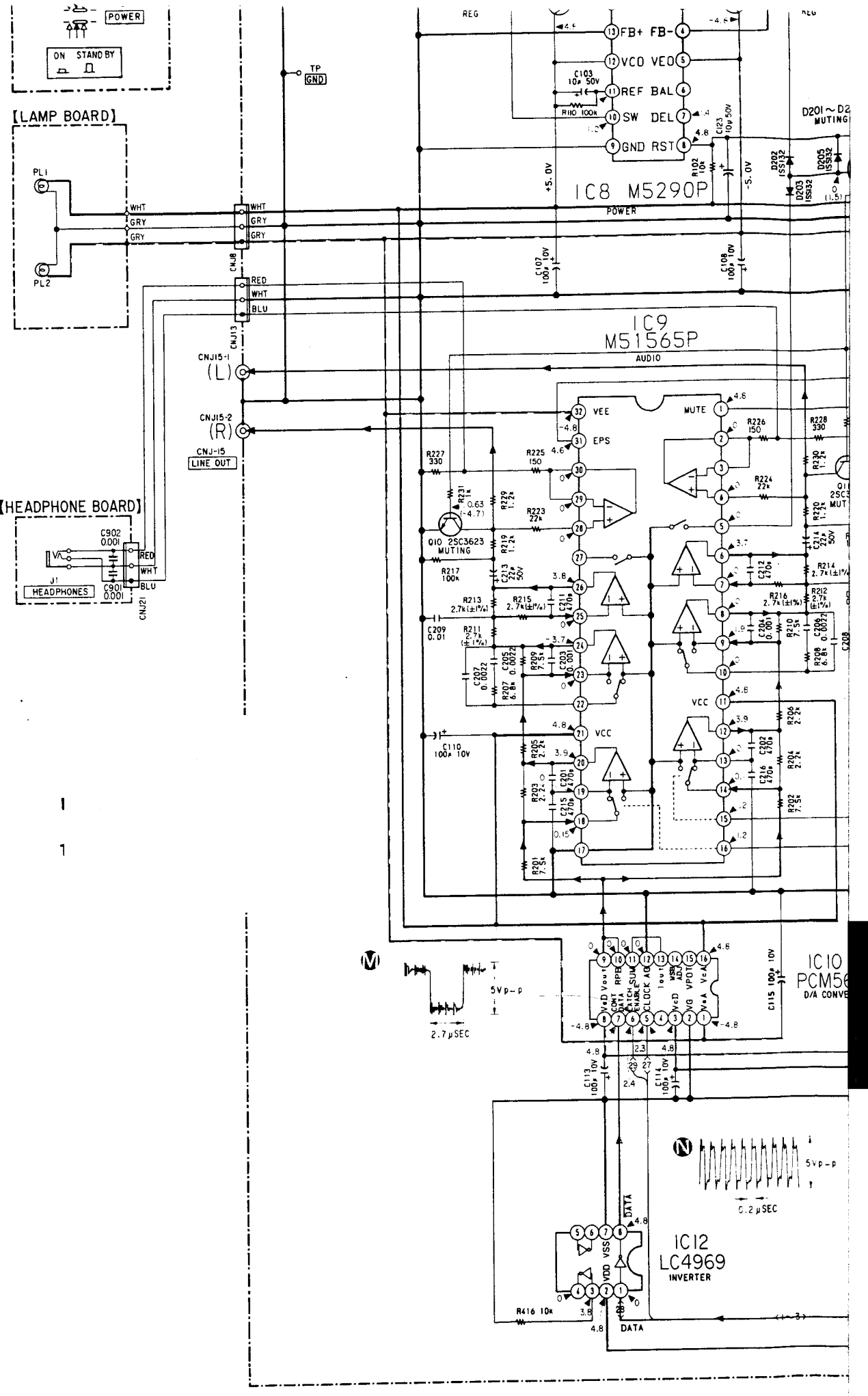
[DISPLAY PANEL, LIQUID CRYSTAL]

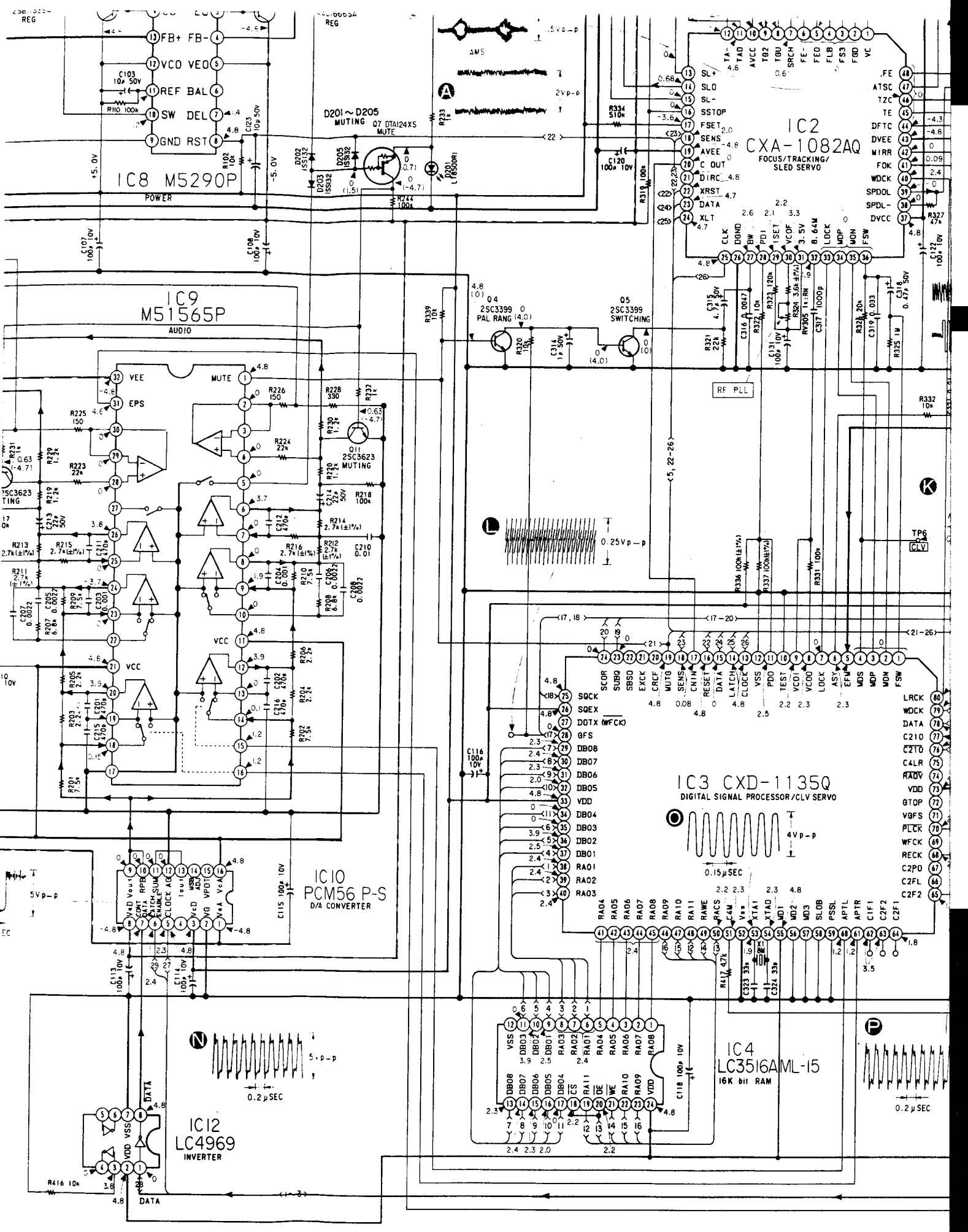


IC5 M50930-431FP

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IC8 M5290P
POWER

IC9 M51565P
AUDIO

IC10 PCM56 P-S
D/A CONVERTER

IC12 LC4969
INVERTER

IC2 CXA-1082AQ
FOCUS/TRACKING/
SLED SERVO

IC3 CXD-1135Q
DIGITAL SIGNAL PROCESSOR/C/LV SERVO

IC4 LC3516AML-15
16K bit RAM

05 25C3399
SWITCHING

04 25C3399
PAL RANG

01 25C3623
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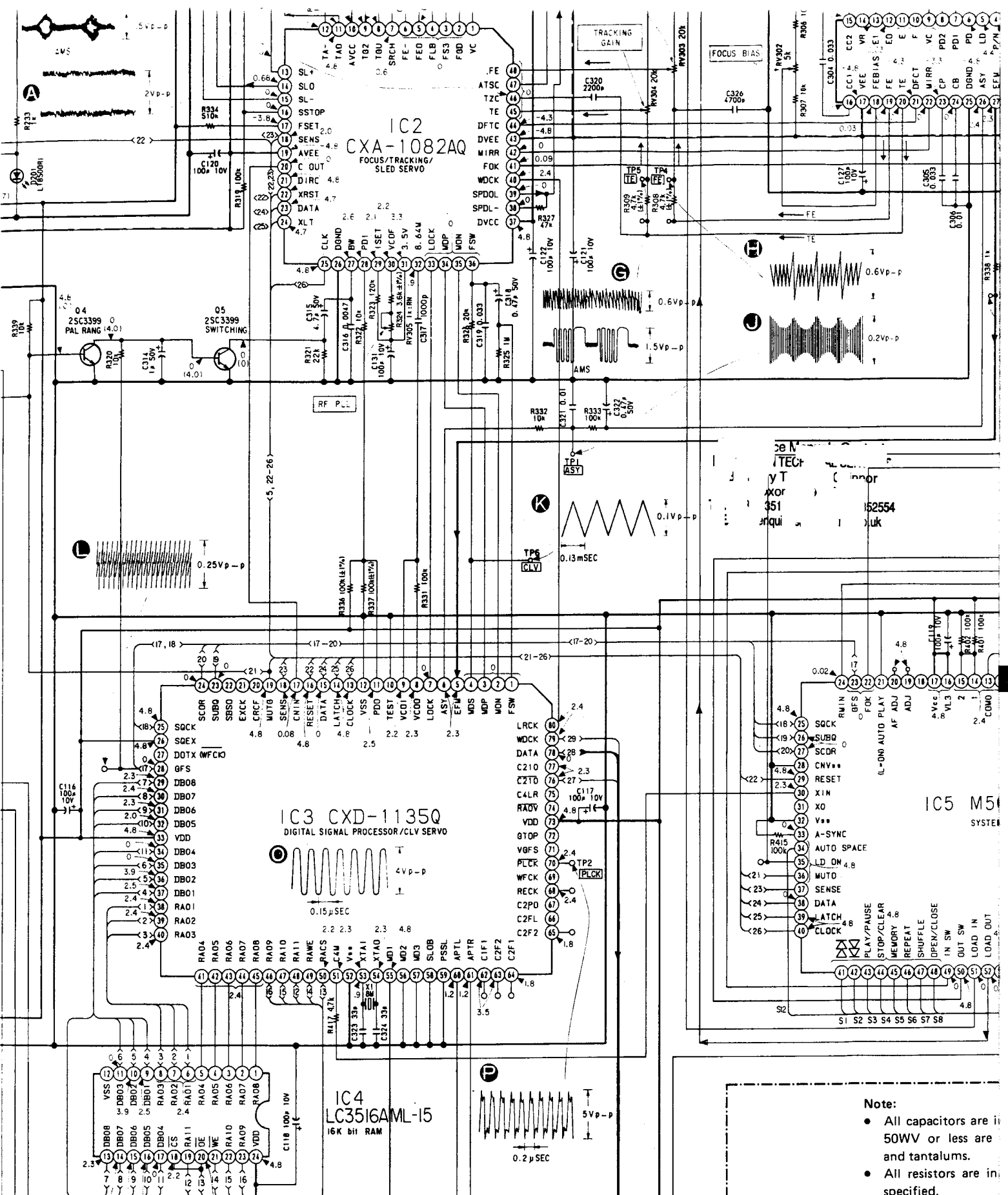
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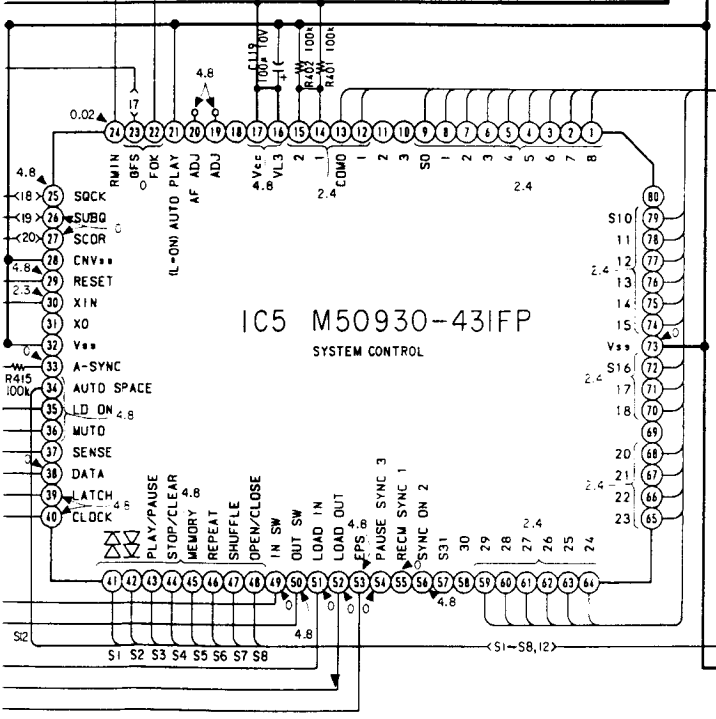
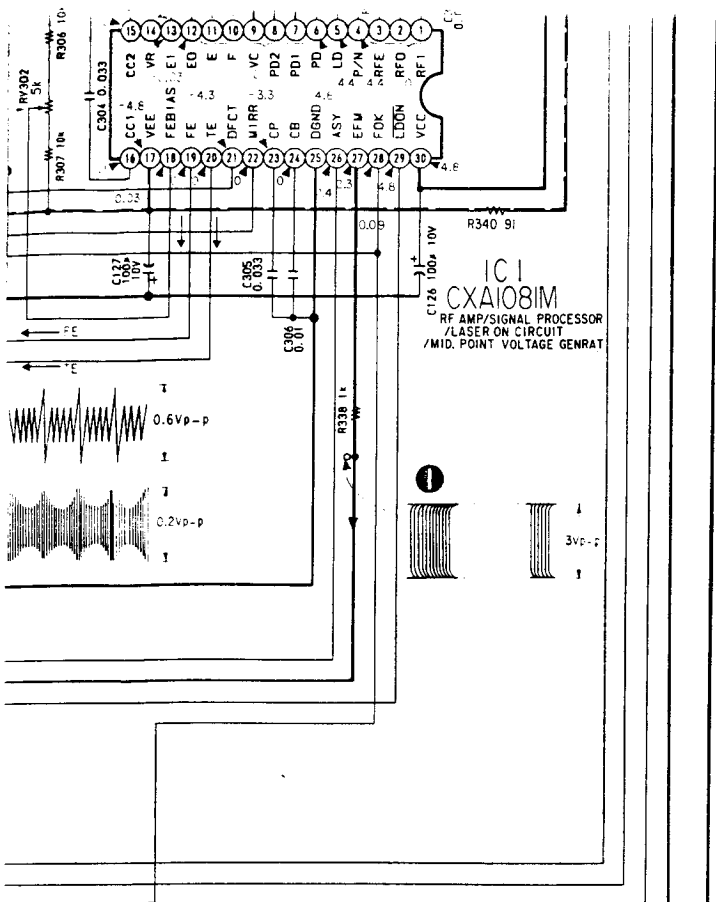


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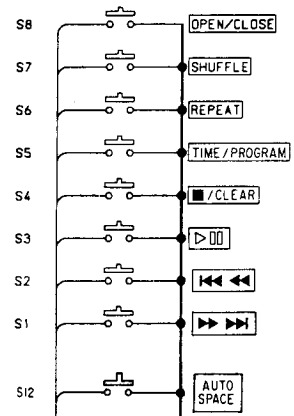
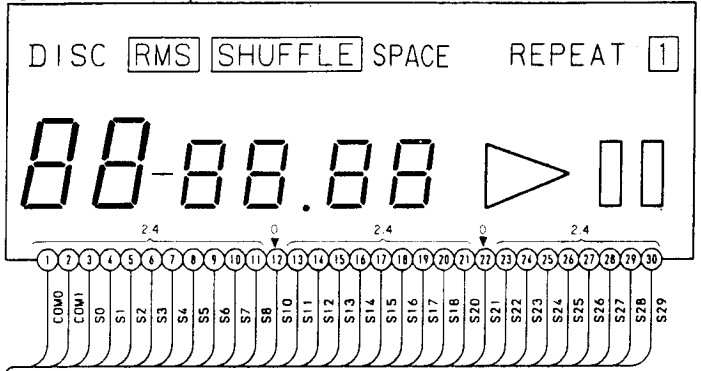
Kešinci, 31402 Semeljci
 031-856-139
 031-856-637
 098-788-319

rtv-servis-horvat@os.tel.hr
 Croatia

- Note:**
- All capacitors are in 50WV or less are electrolytic and tantalums.
 - All resistors are in ohms unless specified.
 - —▶—: signal path.
 - —+—: B+ bus.
 - —- - -: B- bus.
 - —|—: adjustment potentiometer.
 - Voltages are dc unless noted.
 - Readings are taken with a VOM (50 kΩ impedance).
 - Voltage variations are in parentheses unless noted.
 - Note: • A ... Circuit mounting points.
 - Waveforms are taken at the points indicated.



[DISPLAY PANEL, LIQUID CRYSTAL]



Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50VV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- \blacktriangleright : signal path.
- --- : B+ bus.
- - - - : B- bus.
- \square : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 k Ω /V).
- Voltage variations may be noted due to normal production tolerances.
- Note: •A ... Circled T.P. No's coincide with those in mounting and schematic diagrams.
- Waveforms are taken to ground by using oscilloscope.

• Switches

Ref. No.	Switch	Position
S1	$\blacktriangleright\blacktriangleright$	OFF
S2	$\blacktriangleleft\blacktriangleleft$	OFF
S3	PLAY/PAUSE	OFF
S4	STOP/CLEAR	OFF
S5	MEMORY/TIME	OFF
S6	REPEAT	OFF
S7	SHUFFLE	OFF
S8	OPEN/CLOSE	OFF
S9	POWER	OFF
S10	LIMIT	OFF
S11	LOADING	OFF
S12	AUTO SPACE	OFF

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SECTION 6 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.

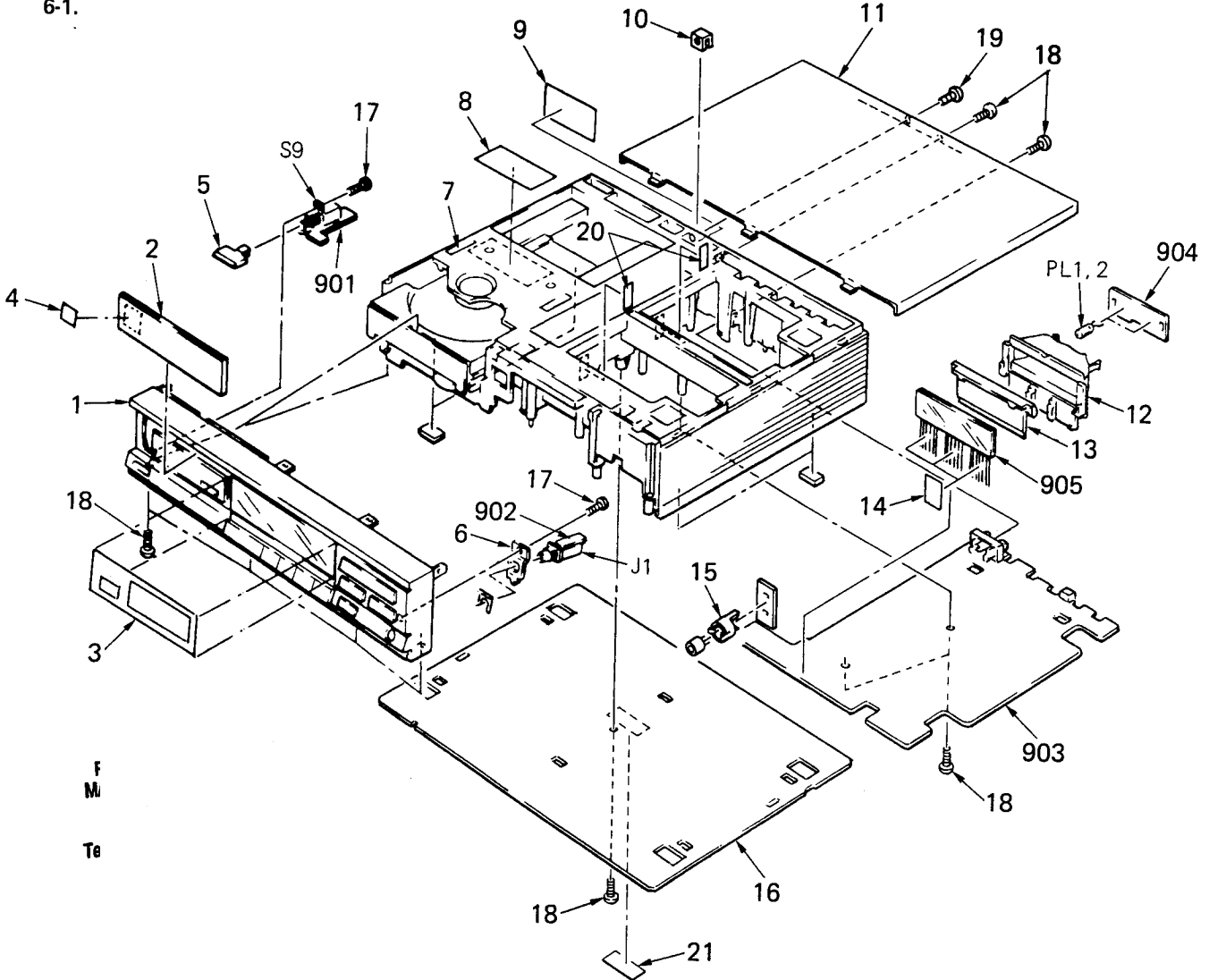
• The construction parts of an assembled part are indicated with a collation number in the remark column.

• Color Indication of Appearance Parts
Example: (RED) KNOB, BALANCE (WHITE)

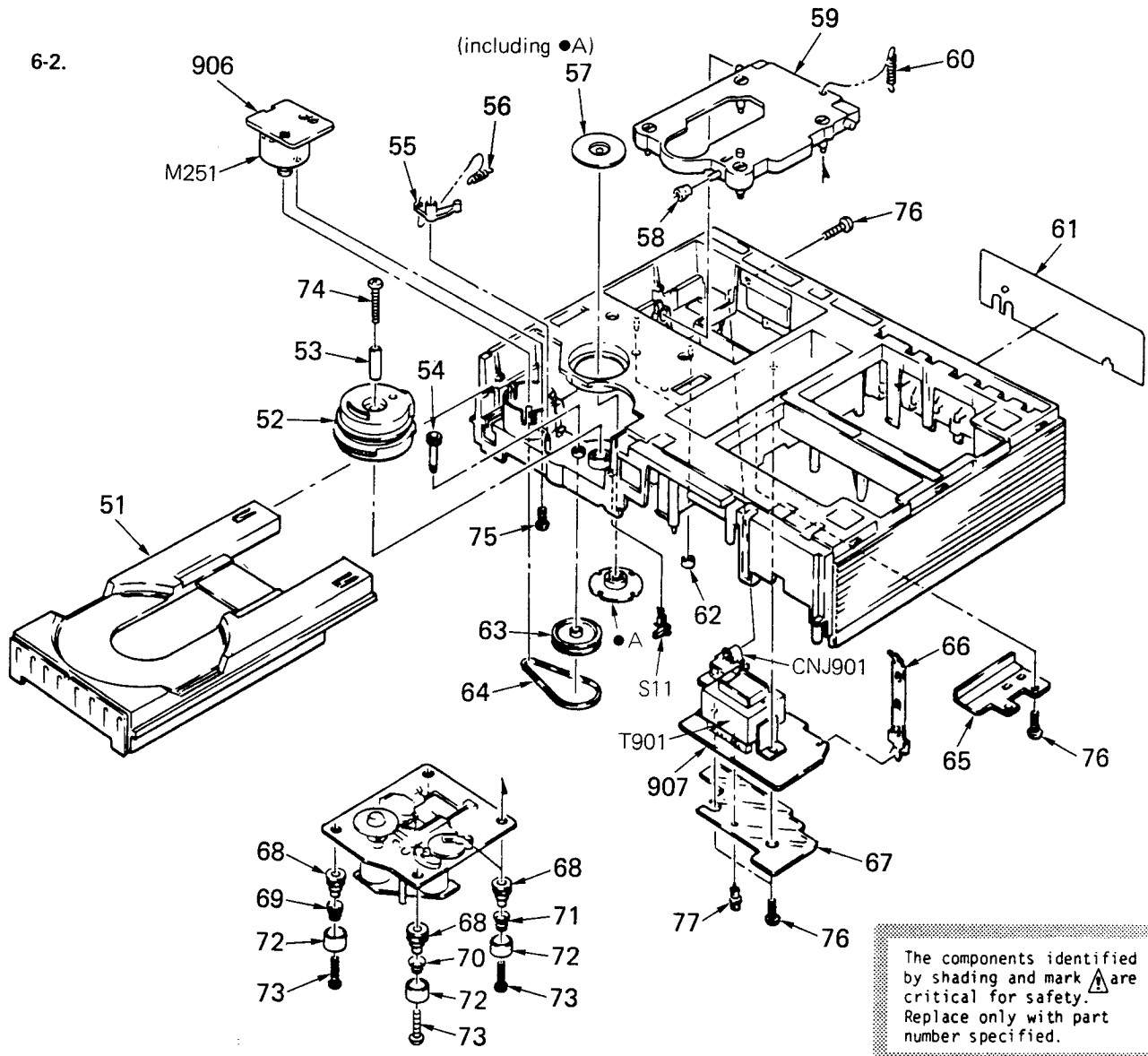
Cabinet's Color Parts' Color

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

6-1.



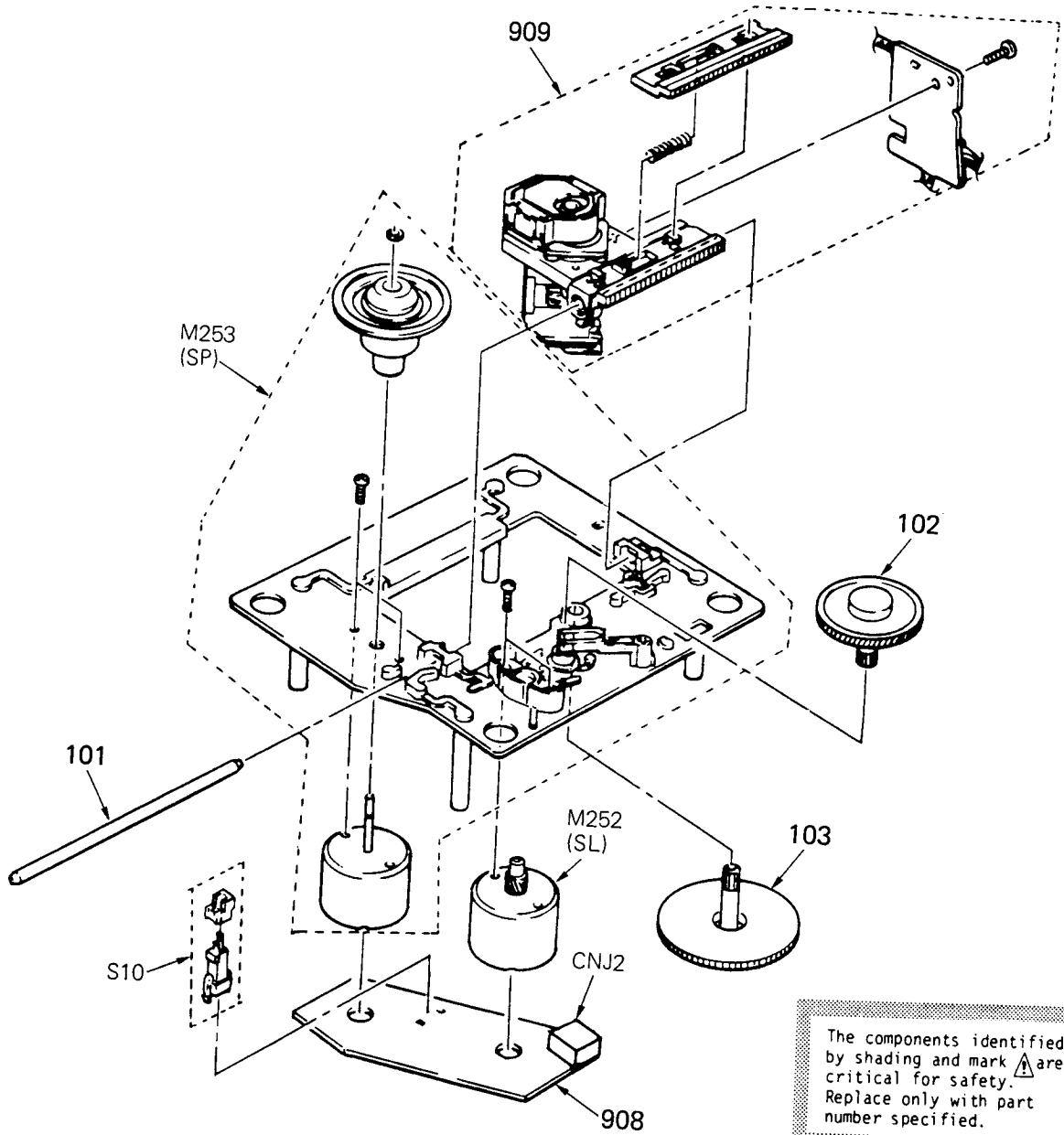
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	X-4917-514-1	PANEL ASSY, CONTROL		14	3-831-441-XX	CUSHION (25X15X0.3)	
2	4-917-531-11	PANEL, LOADING		15	*4-917-593-01	HOLDER, SENSOR	
3	4-917-530-01	PLATE (A), INDICATION		16	*4-917-535-01	PLATE, BOTTOM	
4	3-703-713-41	STICKER, SONY SYMBOL (10)		17	7-685-133-19	SCREW +P 2.6X6 TYPE1	
5	4-917-525-01	KNOB, POWER		18	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
6	*4-917-513-01	BRACKET, HEADPHONE		19	3-703-685-21	SCREW (+BV 3X8)	
7	X-4917-506-1	FRAME ASSY		20	3-831-441-XX	(AEP)...CUSHION (B), CABINET	
8	*4-885-843-02	LABEL, CAUTION, LASER		21	3-703-079-21	(UK)...LABEL, CAUTION (BACK)	
9	*4-885-838-00	LABEL, CLASS 1		901	*1-620-604-11	PC BOARD, POWER SW	
10	*4-918-670-01	SUPPORT, GROUND		902	*1-620-605-11	PC BOARD, HEADPHONE	
11	4-917-536-03	CASE		903	*A-4651-109-A	MOUNTED PCB, MAIN	
12	*4-917-529-01	HOUSE, LAMP		904	*1-620-606-11	PC BOARD, LAMP	
13	*4-917-528-01	ILLUMINATOR		905	1-807-686-11	DISPLAY PANEL, LIQUID CRYSTAL	
				J1	1-563-485-21	JACK, LARGE TYPE (HEADPHONES)	



No.	Part No.	Description	Remarks
51	4-917-539-01	TABLE, DISK	
52	4-917-534-01	GEAR (A), LOADING	
53	*4-917-523-01	COLLAR, CAM	
54	4-917-516-01	GEAR (B), LOADING	
55	4-917-519-02	LEVER, SET	
56	4-917-514-01	SPRING, TENSION	
57	A-4665-024-A	MAGNET ASSY	
58	4-917-515-01	ROLLER	
59	4-917-537-01	BASE, FLOATING	
60	4-917-526-01	SPRING, TENSION	
61	4-917-502-01	(UK)...PLATE (B), INDICATION, TERMINAL	
	4-917-503-01	(AEP)...PLATE (B), INDICATION, TERMINAL	
62	*3-576-990-01	CUSHION	
63	4-917-521-01	PULLEY, LOADING	
64	4-917-522-01	BELT	
65	*4-917-517-01	GUIDE, LEAD	
66	*4-917-511-01	PLATE, GROUND	

No.	Part No.	Description	Remarks
67	4-917-510-01	SHEET, INSULATING	
68	4-917-562-01	INSULATOR	
69	4-918-669-01	SPRING (W)	
70	4-917-541-01	SPRING (B)	
71	4-917-507-01	SPRING (H)	
72	4-917-508-01	HOLDER, SP	
73	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S	
74	7-685-552-19	SCREW +BTP 3X25 TYPE2 N-S	
75	7-621-759-30	+PSW, 2.6X5	
76	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
77	3-531-576-11	RIVET	
906	*1-620-603-11	PC BOARD, LOADING MOTOR	
907	*1-620-600-11	PC BOARD, POWER	
▲.CNJ901	1-526-931-11	INLET, AC	
M251	A-4608-330-A	MOTOR ASSY (LOADING)	
S11	1-570-203-11	SWITCH, LEAF (LOADING)	
T901	▲.1-448-686-11	(UK)...TRANSFORMER, POWER	
T901	▲.1-448-690-11	(AEP)...TRANSFORMER, POWER	

6-3.



No.	Part No.	Description
101	4-917-565-01	SHAFT, SLED
102	4-917-567-01	GEAR (M)
103	4-917-564-01	GEAR (P), FLATNESS
908	*1-620-097-11	PC BOARD, SL/SP MOTOR

Remarks	No.	Part No.	Description	Remarks
	909	Δ 8-848-046-11	PICKUP, OPTICS KSS-150A	
	M252	X-4917-504-1	MOTOR ASSY (SLED)	
	M253	X-4917-523-1	BASE (OUTSURT) ASSY (SPINDLE)	
	S10	1-570-822-11	SWITCH, LEAF (LIMIT IN)	

SECTION 7 ELECTRICAL PARTS LIST

NOTE:

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

CAPACITORS:

MF: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 **Δ** are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
901	*1-620-604-11	PC BOARD, POWER SW				
902	*1-620-605-11	PC BOARD, HEADPHONE				
903	*A-4651-109-A	MOUNTED PCB, MAIN				
904	*1-620-606-11	PC BOARD, LAMP				
905	1-807-686-11	DISPLAY PANEL, LIQUID CRYSTAL				
906	*1-620-603-11	PC BOARD, LOADING MOTOR				
907	*1-620-600-11	PC BOARD, POWER				
908	*1-620-097-11	PC BOARD, SL/SP MOTOR				
909	Δ-8-848-046-11	PICKUP, OPTICS KSS-150A				
C103	1-123-875-11	ELECT	10MF	20%	50V	
C105	1-124-898-11	ELECT	4700MF	20%	16V	
C106	1-124-898-11	ELECT	4700MF	20%	16V	
C107	1-124-443-00	ELECT	100MF	20%	10V	
C108	1-124-443-00	ELECT	100MF	20%	10V	
C110	1-124-443-00	ELECT	100MF	20%	10V	
C111	1-124-443-00	ELECT	100MF	20%	10V	
C113	1-124-443-00	ELECT	100MF	20%	10V	
C114	1-124-443-00	ELECT	100MF	20%	10V	
C115	1-124-443-00	ELECT	100MF	20%	10V	
C116	1-124-443-00	ELECT	100MF	20%	10V	
C117	1-124-443-00	ELECT	100MF	20%	10V	
C118	1-124-443-00	ELECT	100MF	20%	10V	
C119	1-124-443-00	ELECT	100MF	20%	10V	
C120	1-124-443-00	ELECT	100MF	20%	10V	
C121	1-124-443-00	ELECT	100MF	20%	10V	
C122	1-124-443-00	ELECT	100MF	20%	10V	
C123	1-123-875-11	ELECT	10MF	20%	50V	
C124	1-124-236-00	ELECT	47MF	20%	16V	
C125	1-124-236-00	ELECT	47MF	20%	16V	
C126	1-124-443-00	ELECT	100MF	20%	10V	
C127	1-124-443-00	ELECT	100MF	20%	10V	
C128	1-124-443-00	ELECT	100MF	20%	10V	
C131	1-124-443-00	ELECT	100MF	20%	10V	
C133	1-124-236-00	ELECT	47MF	20%	16V	
C150	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C201	1-130-467-00	MYLAR	470PF	5%	50V	
C202	1-130-467-00	MYLAR	470PF	5%	50V	
C203	1-130-471-00	MYLAR	0.001MF	5%	50V	
C204	1-130-471-00	MYLAR	0.001MF	5%	50V	
C205	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C206	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C207	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C208	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C209	1-136-153-00	FILM	0.01MF	5%	50V	
C210	1-136-153-00	FILM	0.01MF	5%	50V	

ELECTRICAL PARTS


Ref.No.	Part No.	Description				
C211	1-130-467-00	MYLAR	470PF	5%	50V	
C212	1-130-467-00	MYLAR	470PF	5%	50V	
C213	1-123-357-00	ELECT	22MF	20%	50V	
C214	1-123-357-00	ELECT	22MF	20%	50V	
C215	1-162-290-31	CERAMIC	470PF	10%	50V	
C216	1-162-290-31	CERAMIC	470PF	10%	50V	
C301	1-124-443-00	ELECT	100MF	20%	10V	
C302	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C303	1-162-201-31	CERAMIC	12PF	5%	50V	
C304	1-136-159-00	FILM	0.033MF	5%	50V	
C305	1-136-159-00	FILM	0.033MF	5%	50V	
C306	1-136-153-00	FILM	0.01MF	5%	50V	
C307	1-136-165-00	FILM	0.1MF	5%	50V	
C308	1-136-161-00	FILM	0.047MF	5%	50V	
C309	1-123-382-00	ELECT	3.3MF	20%	50V	
C310	1-136-165-00	FILM	0.1MF	5%	50V	
C312	1-123-875-11	ELECT	10MF	20%	50V	
C313	1-136-165-00	FILM	0.1MF	5%	50V	
C314	1-124-499-11	ELECT	1MF	20%	50V	
C315	1-124-927-11	ELECT	4.7MF	20%	50V	
C316	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C317	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C318	1-124-902-00	ELECT	0.47MF	20%	50V	
C319	1-136-159-00	FILM	0.033MF	5%	50V	
C320	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C321	1-136-153-00	FILM	0.01MF	5%	50V	
C322	1-124-902-00	ELECT	0.47MF	20%	50V	
C323	1-162-211-31	CERAMIC	33PF	5%	50V	
C324	1-162-211-31	CERAMIC	33PF	5%	50V	
C325	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C326	1-161-047-00	CERAMIC	0.0047MF	20%	25V	
C350	1-162-199-31	CERAMIC	10PF	5%	50V	
C351	1-162-199-31	CERAMIC	10PF	5%	50V	
C501	1-106-351-00	FILM	0.0022MF	5%	50V	
C502	1-106-351-00	FILM	0.0022MF	5%	50V	
C601	1-136-157-00	FILM	0.022MF	5%	50V	
C801	Δ-1-136-165-00	FILM	0.1MF	5%	50V	
C901	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C902	1-162-294-31	CERAMIC	0.001MF	10%	50V	
CNJ1	*1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P				
CNJ2	*1-564-720-41	PIN, CONNECTOR (SMALL TYPE) 4P				
CNJ3	*1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P				
CNJ4	*1-564-720-31	PIN, CONNECTOR (SMALL TYPE) 4P				
CNJ5	*1-564-495-11	PIN, CONNECTOR 2P				
CNJ6	*1-564-496-11	PIN, CONNECTOR 3P				

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CNJ7	*1-566-214-11	PIN, CONNECTOR (PC BOARD) 2P
CNJ8	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CNJ9	*1-564-498-11	PIN, CONNECTOR 5P
CNJ13	*1-564-337-00	PIN, CONNECTOR 3P
CNJ15	*1-562-999-21	JACK, PIN 2P (LINE OUT)
CNJ20	*1-566-165-11	CONNECTOR, BOARD TO BOARD 3P
CNJ21	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
△.CNJ901	1-526-931-11	INLET, AC
D101	8-719-511-40	DIODE S1VB40
D201	8-719-941-37	DIODE LT8500R1
D202	8-719-940-76	DIODE 1SS132
D203	8-719-940-76	DIODE 1SS132
D204	8-719-940-76	DIODE 1SS132
D205	8-719-940-76	DIODE 1SS132
IC1	8-752-030-93	IC CXA1081M
IC2	8-752-031-61	IC CXA1082AQ
IC3	8-752-322-05	IC CXD1135Q
IC4	8-759-802-74	IC LC3516AML-15
IC5	8-759-604-62	IC M50930-431FP
IC6	8-759-303-90	IC STA341M
IC7	8-759-202-01	IC TA7256P
IC8	8-759-604-03	IC M5290P
IC9	8-759-604-00	IC M51565P
IC10	8-759-937-95	IC PCM56P-S
IC11	8-749-900-69	IC BX-1457
IC12	8-759-803-41	IC LC4969
J1	1-563-485-21	JACK, LARGE TYPE (HEADPHONES)
L301	1-408-563-00	MICRO INDUCTOR 10UH
M251	A-4608-330-A	MOTOR ASSY (LOADING)
M252	X-4917-504-1	MOTOR ASSY (SLED)
M253	X-4917-505-1	BASE (OUTSURT) ASSY (SPINDLE)
PL1	1-518-606-11	LAMP, PILOT
PL2	1-518-606-11	LAMP, PILOT
PS1	1-532-685-00	LINK, IC 0.8A
PS2	1-532-685-00	LINK, IC 0.8A
PS3	1-532-605-00	LINK, IC 0.8A
PS4	1-532-605-00	LINK, IC 0.8A
Q1	8-729-807-03	TRANSISTOR 2SB1133SA
Q2	8-729-807-07	TRANSISTOR 2SD1666SA
Q3	8-729-801-83	TRANSISTOR 2SB1013
Q4	8-729-806-38	TRANSISTOR 2SC3399
Q5	8-729-806-38	TRANSISTOR 2SC3399
Q6	8-729-806-38	TRANSISTOR 2SC3399

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q7	8-729-900-67	TRANSISTOR DTA124XS			
Q10	8-729-107-77	TRANSISTOR 2SC3623-L			
Q11	8-729-107-77	TRANSISTOR 2SC3623-L			
R101	1-249-405-11	CARBON	100	5%	1/4W
R102	1-249-429-11	CARBON	10K	5%	1/4W
R103	1-249-425-11	CARBON	4.7K	5%	1/4W
R104	1-249-425-11	CARBON	4.7K	5%	1/4W
R110	1-249-441-11	CARBON	100K	5%	1/4W
R201	1-215-442-00	CARBON	7.5K	5%	1/4W
R202	1-215-442-00	CARBON	7.5K	5%	1/4W
R203	1-249-421-11	CARBON	2.2K	5%	1/4W
R204	1-249-421-11	CARBON	2.2K	5%	1/4W
R205	1-249-421-11	CARBON	2.2K	5%	1/4W
R206	1-249-421-11	CARBON	2.2K	5%	1/4W
R207	1-249-427-11	CARBON	6.8K	5%	1/4W
R208	1-249-427-11	CARBON	6.8K	5%	1/4W
R209	1-215-442-00	CARBON	7.5K	5%	1/4W
R210	1-215-442-00	CARBON	7.5K	5%	1/4W
R211	1-215-431-00	METAL	2.7K	1%	1/6W
R212	1-215-431-00	METAL	2.7K	1%	1/6W
R213	1-215-431-00	METAL	2.7K	1%	1/6W
R214	1-215-431-00	METAL	2.7K	1%	1/6W
R215	1-215-431-00	METAL	2.7K	1%	1/6W
R216	1-215-431-00	METAL	2.7K	1%	1/6W
R217	1-249-441-11	CARBON	100K	5%	1/4W
R218	1-249-441-11	CARBON	100K	5%	1/4W
R219	1-249-418-11	CARBON	1.2K	5%	1/4W
R220	1-249-418-11	CARBON	1.2K	5%	1/4W
R223	1-249-433-11	CARBON	22K	5%	1/4W
R224	1-249-433-11	CARBON	22K	5%	1/4W
R225	1-247-702-11	CARBON	150	5%	1/4W
R226	1-247-702-11	CARBON	150	5%	1/4W
R227	1-249-411-11	CARBON	330	5%	1/4W
R228	1-249-411-11	CARBON	330	5%	1/4W
R229	1-249-418-11	CARBON	1.2K	5%	1/4W
R230	1-249-418-11	CARBON	1.2K	5%	1/4W
R231	1-249-417-11	CARBON	1K	5%	1/4W
R232	1-249-417-11	CARBON	1K	5%	1/4W
R233	1-249-417-11	CARBON	1K	5%	1/4W
R235	1-249-412-11	CARBON	390	5%	1/4W
R244	1-249-441-11	CARBON	100K	5%	1/4W
R301	1-214-092-00	METAL	22	1%	1/4W
R302	1-249-424-11	CARBON	3.9K	5%	1/4W
R303	1-249-432-11	CARBON	18K	5%	1/4W
R304	1-249-429-11	CARBON	10K	5%	1/4W

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

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R305	1-249-433-11	CARBON	22K	5%	1/4W
R306	1-249-429-11	CARBON	10K	5%	1/4W
R307	1-249-429-11	CARBON	10K	5%	1/4W
R308	1-215-437-00	METAL	4.7K	1%	1/6W
R309	1-215-437-00	METAL	4.7K	1%	1/6W
R310	1-249-385-11	CARBON	2.2	5%	1/4W
R311	1-247-883-00	CARBON	150K	5%	1/4W
R312	1-249-385-11	CARBON	2.2	5%	1/4W
R313	1-249-441-11	CARBON	100K	5%	1/4W
R314	1-215-479-00	CARBON	270K	5%	1/4W
R315	1-249-435-11	CARBON	33K	5%	1/4W
R316	1-249-385-11	CARBON	2.2	5%	1/4W
R317	1-247-881-00	CARBON	120K	5%	1/4W
R318	1-249-428-11	CARBON	8.2K	5%	1/4W
R319	1-249-441-11	CARBON	100K	5%	1/4W
R320	1-249-429-11	CARBON	10K	5%	1/4W
R321	1-249-433-11	CARBON	22K	5%	1/4W
R322	1-249-429-11	CARBON	10K	5%	1/4W
R323	1-247-881-00	CARBON	120K	5%	1/4W
R324	1-215-434-00	METAL	3.6K	1%	1/6W
R325	1-215-493-00	CARBON	1M	5%	1/4W
R326	1-215-452-00	CARBON	20K	5%	1/4W
R327	1-249-437-11	CARBON	47K	5%	1/4W
R328	1-249-425-11	CARBON	4.7K	5%	1/4W
R329	1-249-429-11	CARBON	10K	5%	1/4W
R330	1-249-381-11	CARBON	1	5%	1/4W
R331	1-249-441-11	CARBON	100K	5%	1/4W
R332	1-249-429-11	CARBON	10K	5%	1/4W
R333	1-249-441-11	CARBON	100K	5%	1/4W
R334	1-215-486-00	CARBON	510K	5%	1/4W
R336	1-215-469-00	METAL	100K	1%	1/6W
R337	1-215-469-00	METAL	100K	1%	1/6W
R338	1-249-417-11	CARBON	1K	5%	1/4W
R339	1-249-429-11	CARBON	10K	5%	1/4W
R340	1-215-396-00	CARBON	91	5%	1/4W
R401	1-249-441-11	CARBON	100K	5%	1/4W
R402	1-249-441-11	CARBON	100K	5%	1/4W
R403	1-249-429-11	CARBON	10K	5%	1/4W
R410	1-249-441-11	CARBON	100K	5%	1/4W
R411	1-249-441-11	CARBON	100K	5%	1/4W
R412	1-249-441-11	CARBON	100K	5%	1/4W
R413	1-249-440-11	CARBON	82K	5%	1/4W
R414	1-249-381-11	CARBON	1	5%	1/4W
R415	1-249-441-11	CARBON	100K	5%	1/4W
R416	1-249-429-11	CARBON	10K	5%	1/4W
R417	1-249-425-11	CARBON	4.7K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV301	1-237-194-21	RES, ADJ, CARBON 20K
RV302	1-237-192-21	RES, ADJ, CARBON 5K
RV303	1-237-194-21	RES, ADJ, CARBON 20K
RV304	1-237-194-21	RES, ADJ, CARBON 20K
RV305	1-228-990-00	RES, ADJ, METAL GLAZE 1K
S1	1-554-088-00	SWITCH, KEY BOARD (FORWARD SEARCH/AMS)
S2	1-554-088-00	SWITCH, KEY BOARD (REVERSE SEARCH/AMS)
S3	1-570-577-11	SWITCH, PUSH (PLAY/PAUSE)
S4	1-554-088-00	SWITCH, KEY BOARD (STOP/CLEAR)
S5	1-554-088-00	SWITCH, KEY BOARD (MEMORY/TIME)
S6	1-554-088-00	SWITCH, KEY BOARD (REPEAT)
S7	1-554-088-00	SWITCH, KEY BOARD (SHUFFLE)
S8	1-554-088-00	SWITCH, KEY BOARD (OPEN/CLOSE)
S9	▲.1-552-928-00	SWITCH (POWER)
S10	1-570-822-11	SWITCH, LEAF (LIMIT IN)
S11	1-570-203-11	SWITCH, LEAF (LOADING)
S12	1-554-088-00	SWITCH, KEY BOARD (AUTO SPACE)
T901	▲.1-448-686-11	(UK)...TRANSFORMER, POWER
T901	▲.1-448-690-11	(AEP)...TRANSFORMER, POWER
X1	1-567-301-21	OSCILLATOR, CRYSTAL (8MHz)

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-463-784-11	REMOTE COMMANDER (RM-050)
▲.1-558-032-11	(UK)...CORD, POWER
▲.1-558-835-11	(AEP)...CORD, POWER
1-558-543-11	CORD, CONNECTION
3-312-970-00	SHEET, PROTECTION
3-701-630-00	BAG, POLYETHYLENE
3-765-659-11	MANUAL, INSTRUCTION
3-765-659-41	(AEP)...MANUAL, INSTRUCTION
*3-795-629-11	(AEP)...INSTRUCTION
4-917-578-01	CUSHION
4-917-589-31	INDIVIDUAL CARTON
7-632-650-75	SHEET, PROTECTION (500MM)

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

TROUBLESHOOTING

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 ► button has been pressed.	Press the ► button 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.

RTV servis Horvat

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