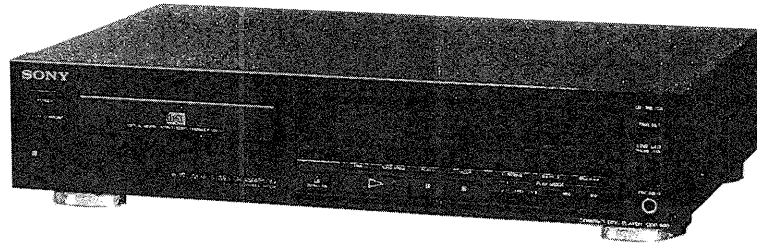


CDP-690

SERVICE MANUAL

AEP Model



Model Name Using Similar Mechanism	CDP-190/390
CD Mechanism Name	CDM14A-5K
Base Unit Name	BU-5K

SPECIFICATIONS

Compact disc player

Frequency response	2 Hz – 20 kHz \pm 0.5 dB
Signal to noise ratio	More than 105 dB
Dynamic range	More than 95 dB
Harmonic distortion	Less than 0.005%
Channel separation	More than 95 dB

Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms
LINE OUT (VARIABLE) (phono jacks)	Output level max. 2 V (at 50 kilohms) Load impedance over 10 kilohms
DIGITAL OUT (OPTICAL) (optical output connector)	Wave length 660 nm Output level – 18 dBm
PHONES (stereo phone jack)	Output level max. 15 mW Load impedance 32 ohms

General

Power requirements	Model for Continental Europe 220 V AC, 50/60 Hz Model for the United Kingdom 240 V AC, 50/60 Hz
--------------------	--

Power consumption	14 W
Dimensions (approx., including projections)	430 \times 100 \times 280 mm (w/h/d) (17 \times 4 \times 11 $\frac{1}{8}$ inches)
Weight (approx.)	3.7 kg (8 lbs 3 oz)

Supplied accessories

Audio cord	1 (2 phono plugs – 2 phono plugs)
Remote commander	1
R6 (Size AA) batteries	2

Remote commander

Remote control system	Infrared control
Power requirements	3 V DC with two R6 (size AA) batteries
Dimensions	Approx. 67 \times 18 \times 175 mm (w/h/d) 2 $\frac{3}{4}$ \times 2 $\frac{3}{32}$ \times 7 inches)
Weight	Approx. 150 g (5.3 oz) Including batteries

Design and specifications subject to change without notice.

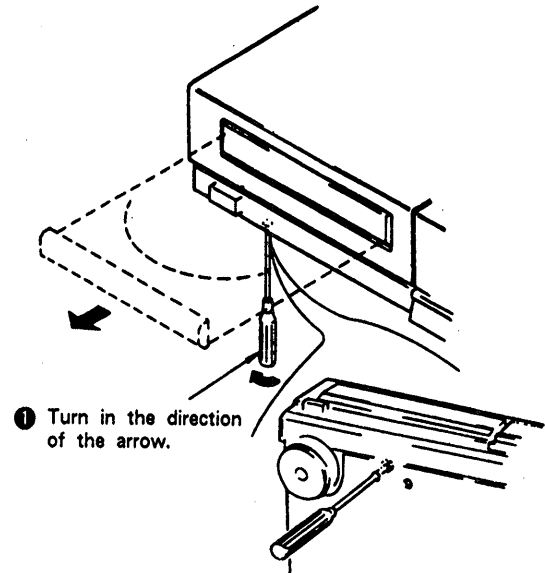
Optional accessory
Optical cable POC-15

COMPACT DISC PLAYER
SONY®

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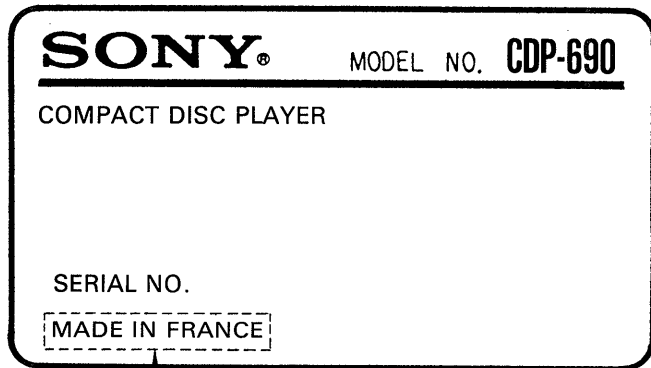
<i>Section</i>	<i>Title</i>	<i>Page</i>
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HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF



Caution : When you work, keep the set horizontal.

[MODEL IDENTIFICATION]



Identify the set with the indication of "MADE IN FRANCE" here.

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.

SAFETY-RELATED COMPONENT WARNING!!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle 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.

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 from more than 30 cm away from the objective lens.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

CAUTION

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

1. Laser Diode Properties

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

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

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

BESKYTTELSE AF ØJNE MOD LASERSTRÅLING UNDER SERVICE

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

Følg iøvrigt instruktionerne i servicemanualen.

ADVARSEL!!

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

1. Laser-dioe data

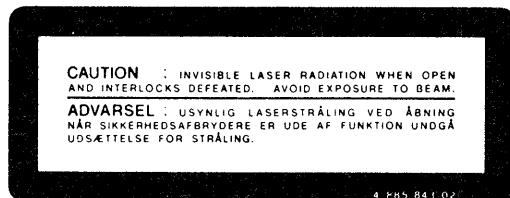
- Materiale: GaAlAs
- Bølgelængde: 780 nm
- Udstråling: Kontinuerlig
- Laseroutput: Max. 0,4 mW*
- * Målt i 1,6 mm afstand fra overfladen af objektiv-linsen på den optiske pick-up enhed.
- Klassifikation: Klasse IIIb.

2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laserdioden) 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

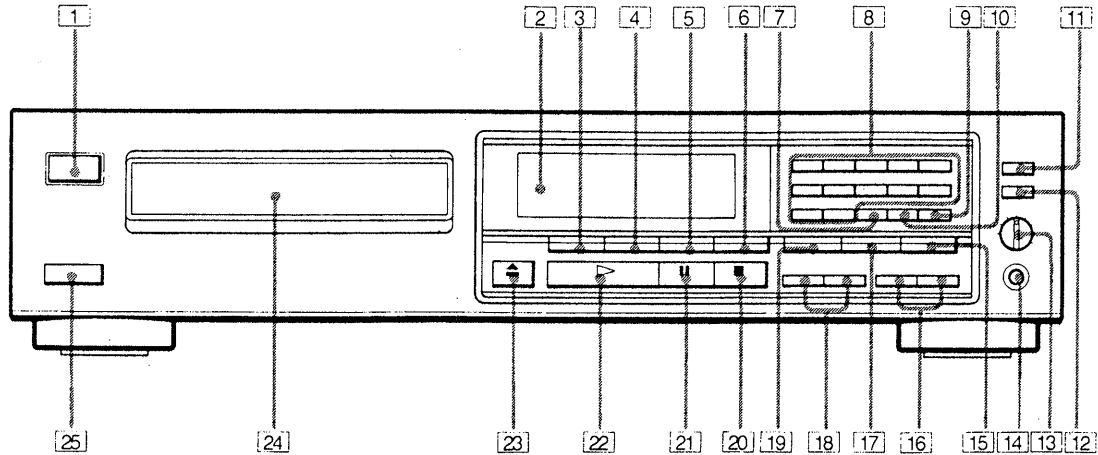


VAROITUS: Laite sisältää, laserdiodin, joka lähettää (näkyvätöntä) silmille vaarallista lasersäteilyä.

SECTION 1 GENERAL

Location of Controls

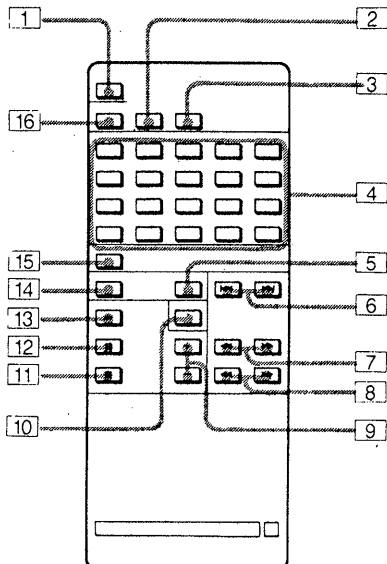
Front Panel



- | | |
|---|--|
| <ul style="list-style-type: none"> 1 POWER switch 2 Display window 3 TIME button 4 AUTO SPACE (auto space) button 5 REPEAT button 6 FADER button 7 CHECK (program check) button 8 Numeric buttons 9 > 12 (over 12) button 10 CLEAR (program clear) button 11 EDIT/TIME FADE button 12 TIME SET button 13 LINE OUT/PHONE LEVEL control | <ul style="list-style-type: none"> 14 PHONES jack 15 PROGRAM button 16 ◀▶▶▶ (manual search) buttons 17 SHUFFLE button 18 ◀◀▶▶▶ (AMS*) buttons 19 CONTINUE button 20 ■ (stop) button 21 (pause) button 22 ▶ (play) button 23 ▲ (open/close) button 24 Disc tray 25 Remote sensor |
|---|--|

* AMS is an abbreviation of Automatic Music Sensor.

Remote Commander

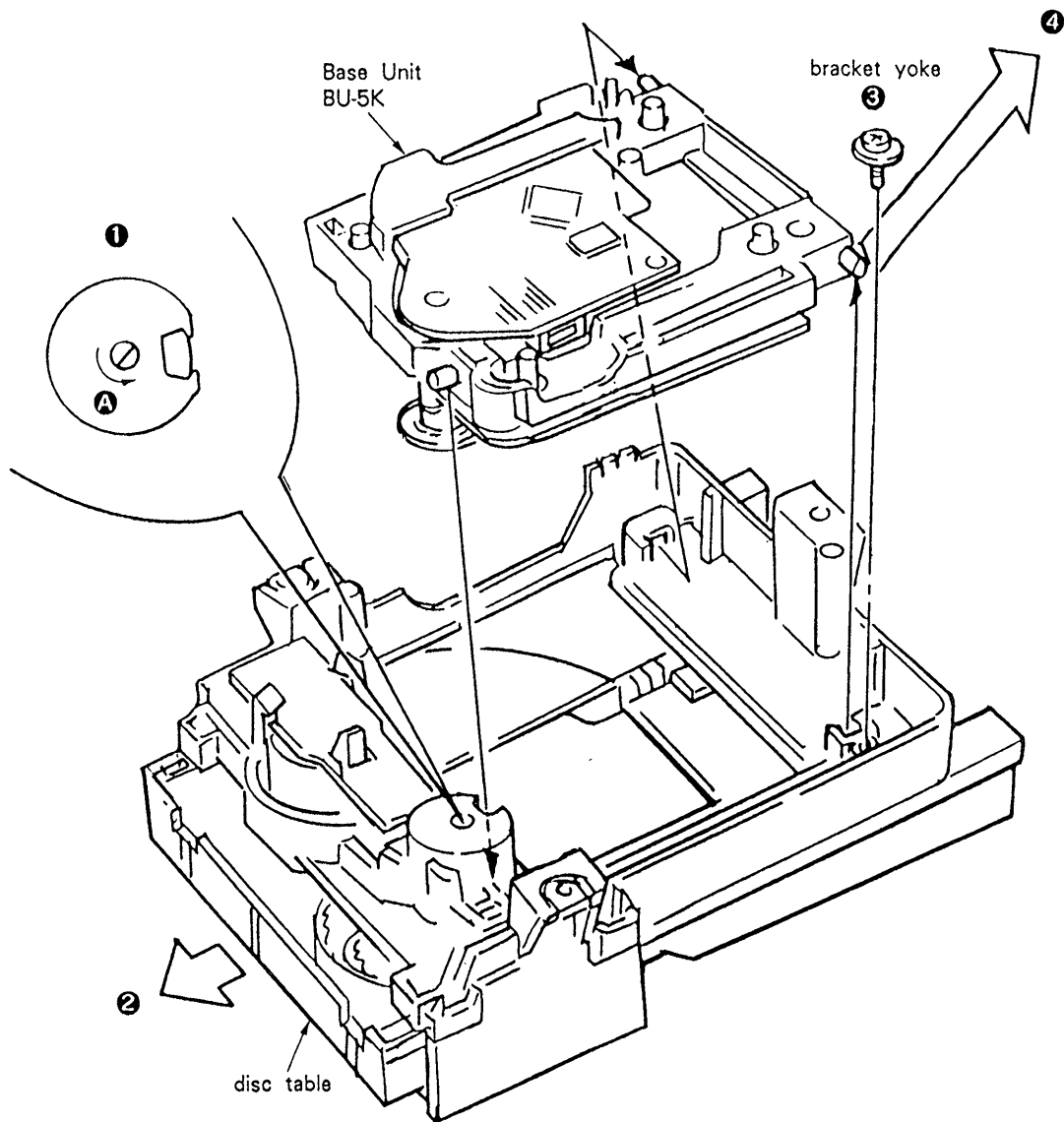


- | |
|---|
| <ul style="list-style-type: none"> 1 ▲ (open/close) button 2 SHUFFLE button 3 PGM (program) button 4 Numeric buttons 5 AUTO SPACE button 6 ◀◀▶▶▶ AMS buttons 7 ◀▶▶▶ (manual search) buttons 8 ◀◀▶▶▶ SLOW (low speed manual search) buttons 9 LINE OUT VOLUME (line out/headphone volume) buttons 10 FADER button 11 ■ (stop) button 12 (pause) button 13 ▶ (play) button 14 REPEAT button 15 > 20 (over 20) button 16 CONTINUE button |
|---|

SECTION 2 DISASSEMBLY OF BASE UNIT

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

1. Remove CD mechanism from the set and turn over.
2. Turn the cam in the Arrow **A** direction by the **⊖** driver.
3. Take out disc table.
4. Remove bracket yoke.
5. Remove BU-5K in the Arrow **4** direction.

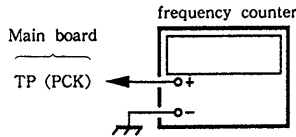


SECTION 3 ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-18 (Part No : 3-702-101-1) disc unless otherwise indicated.
3. Use the oscilloscope with more than 10 MΩ impedance.

RF PLL Free-run Adjustment/Lock Frequency Check

Procedure :

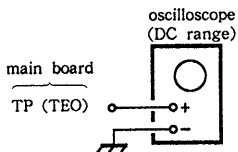


1. Connect test point TP (ASY) to ground with lead wire.
2. Turn POWER switch on.
3. Connect the frequency counter to test point TP (PCK).
4. Adjust RV201 so that the reading on frequency counter is 4.3218 MHz ± 30 KHz.
.....(RF PLL frequency adjustment)
5. Remove lead wire connecting TP (ASY) to ground.
6. Set disc (YEDS-18) and press ▷ PLAY button.
7. Confirm that the reading on frequency counter is 4.3218 MHz.
.....(Lock frequency check)
8. Turn POWER switch off.

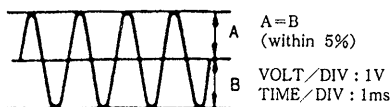
E-F Balance Adjustment

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

Procedure :



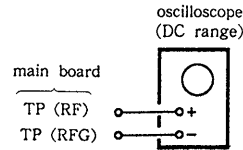
1. Connect test point TP (ADJ) and TP (TES) to ground with lead wire.
2. Connect oscilloscope to test point TP (TEO).
3. Set disc (YEDS-18) and turn POWER switch on.
4. Adjust RV101 so that the traverse waveform is symmetrical above and below.
5. Turn POWER switch off.
6. After adjustment, remove the lead wire connected in step 1.



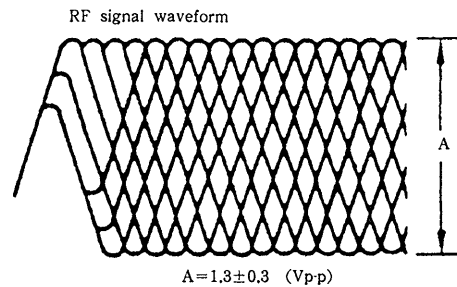
Focus Bias Adjustment

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

Procedure :



1. Connect oscilloscope to test point TP (RF) and test point TP (DG).
2. Set disc (YEDS-18) and turn POWER switch on.
3. 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.
4. Turn POWER switch off.



REFERENCE

Focus/Tracking Gain Adjustments

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 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, mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

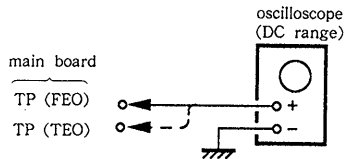
Symptoms	Gain	Focus	Tracking
• The time until music starts becomes longer for ■ STOP → ▷ PLAY or automatic selection. (◀▶ buttons pressed.) (Normally takes about 1 seconds.)		low	low or high
• Music does not start and disc continues to rotate for ■ STOP → ▷ PLAY or automatic selection. (◀▶ buttons pressed.)		—	low
• 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.

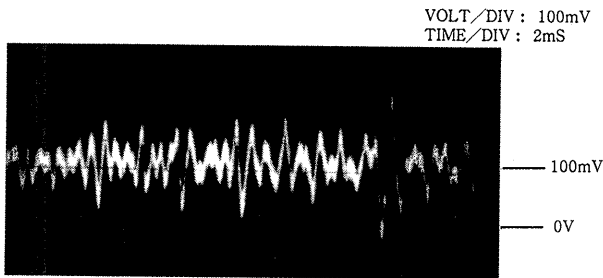
-Primary Adjustment-

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

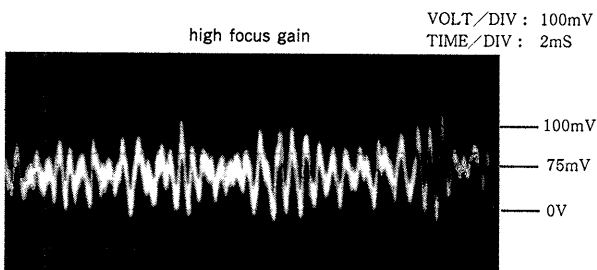
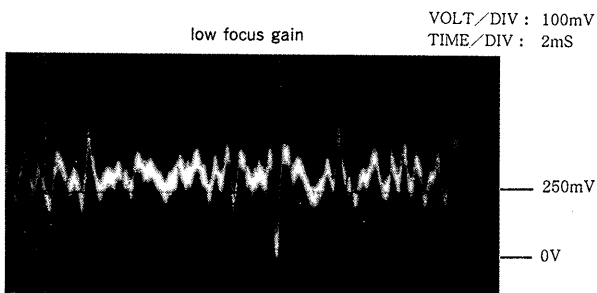
Procedure :



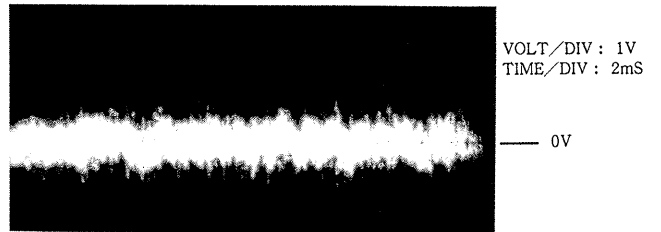
1. Keep the set horizontal.
(If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2. Set disc (YEDS-18) and turn POWER switch on.
3. Connect oscilloscope to main amp board TP (FEO).
4. Adjust RV103 so that the waveform is as shown in the figure below. (focus gain adjustment)



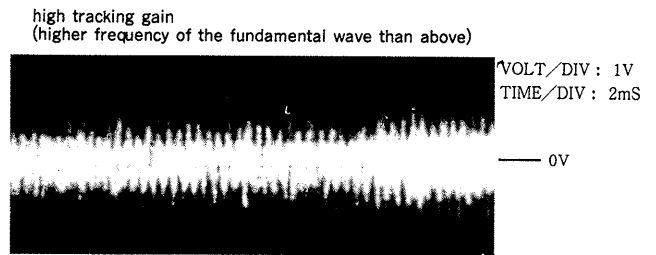
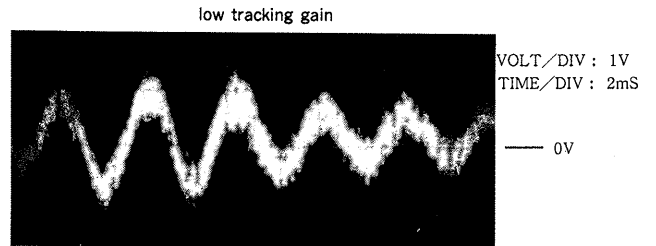
• Incorrect Examples (DC level changes more than on adjusted waveform)



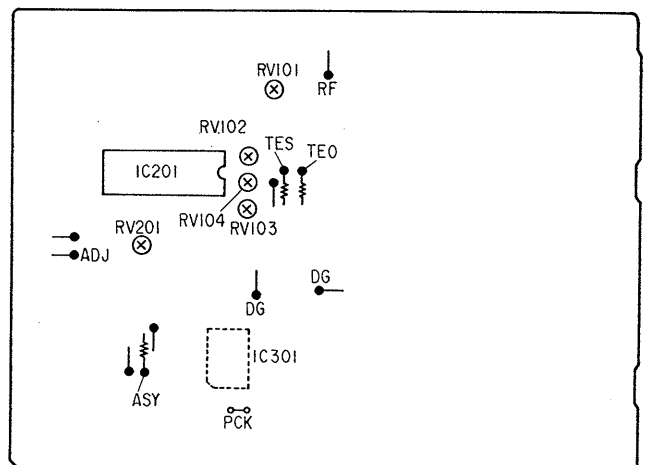
5. Connect oscilloscope to main board TP (TEO).
6. Adjust RV104 so that the waveform is as shown in the figure below. (tracking gain adjustment)
7. Turn POWER switch off.



• Incorrect Examples (fundamental wave appears)



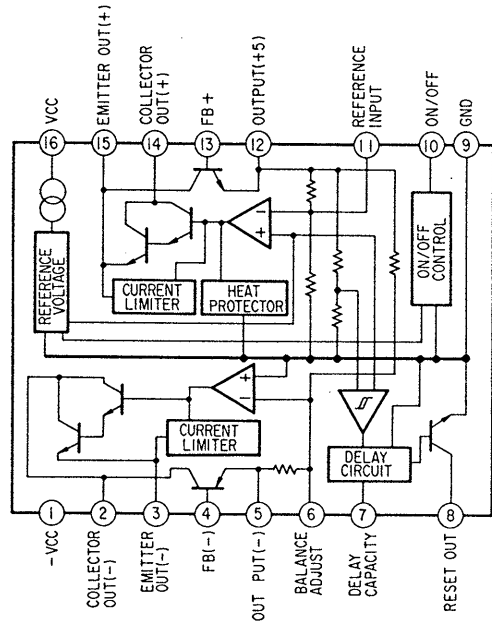
Adjustment Location : main board - component side -



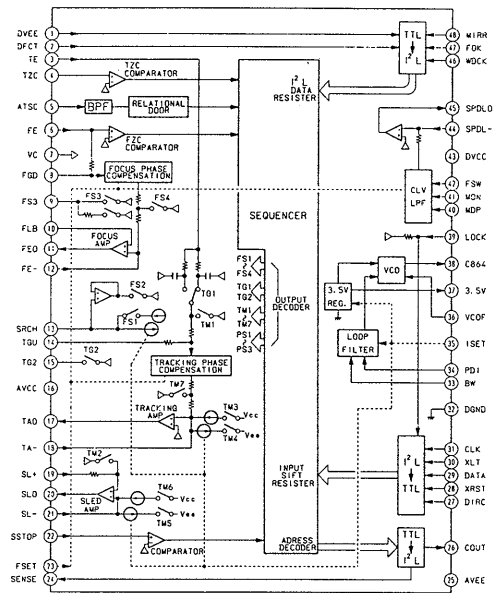
SECTION 4
DIAGRAMS

4-1. IC BLOCK DIAGRAM

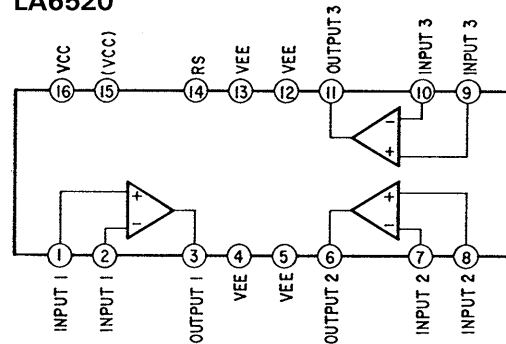
IC001
M5290P-16



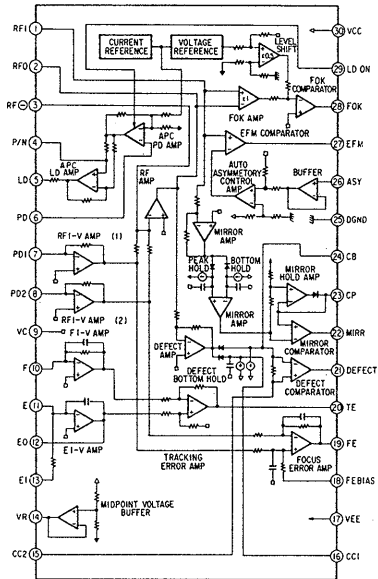
IC201
CXA1082BS



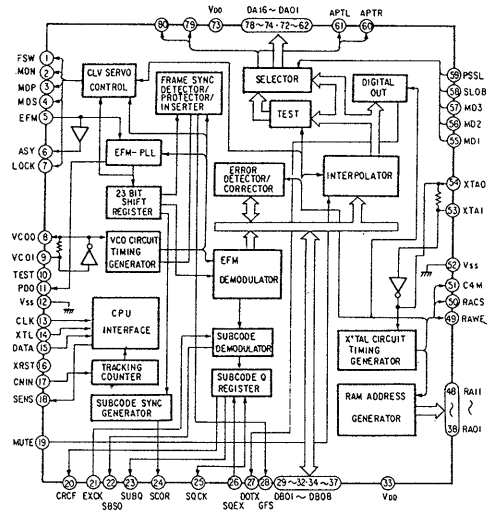
IC202, 203
LA6520



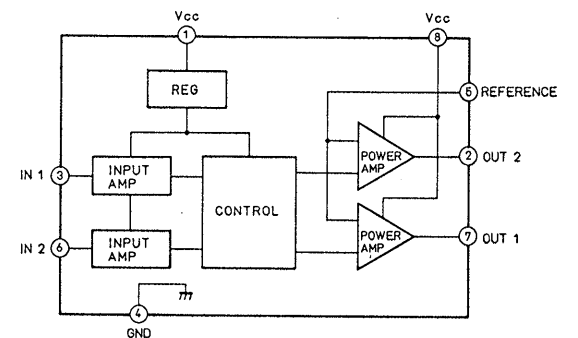
IC101
CXA1081S



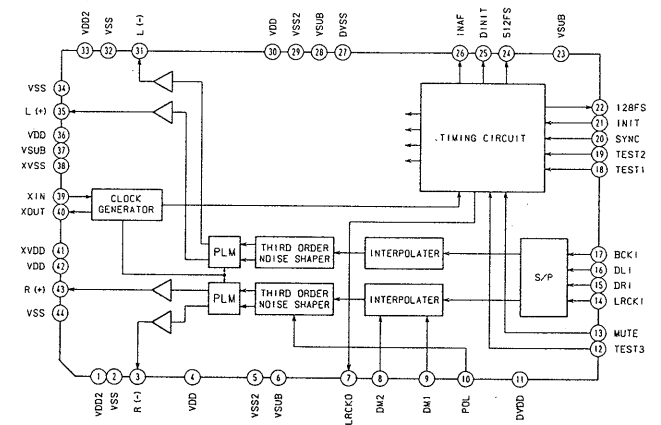
IC301
CXD1125Q



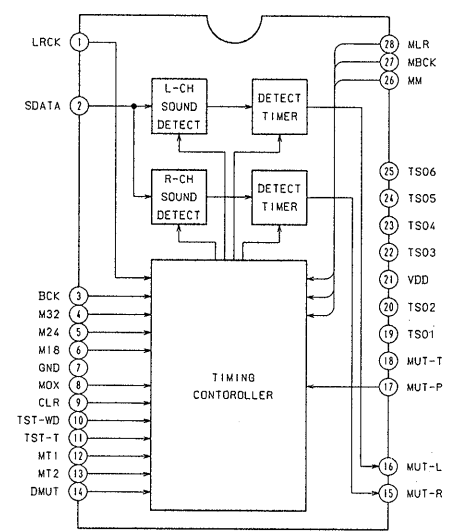
IC403
M54641L



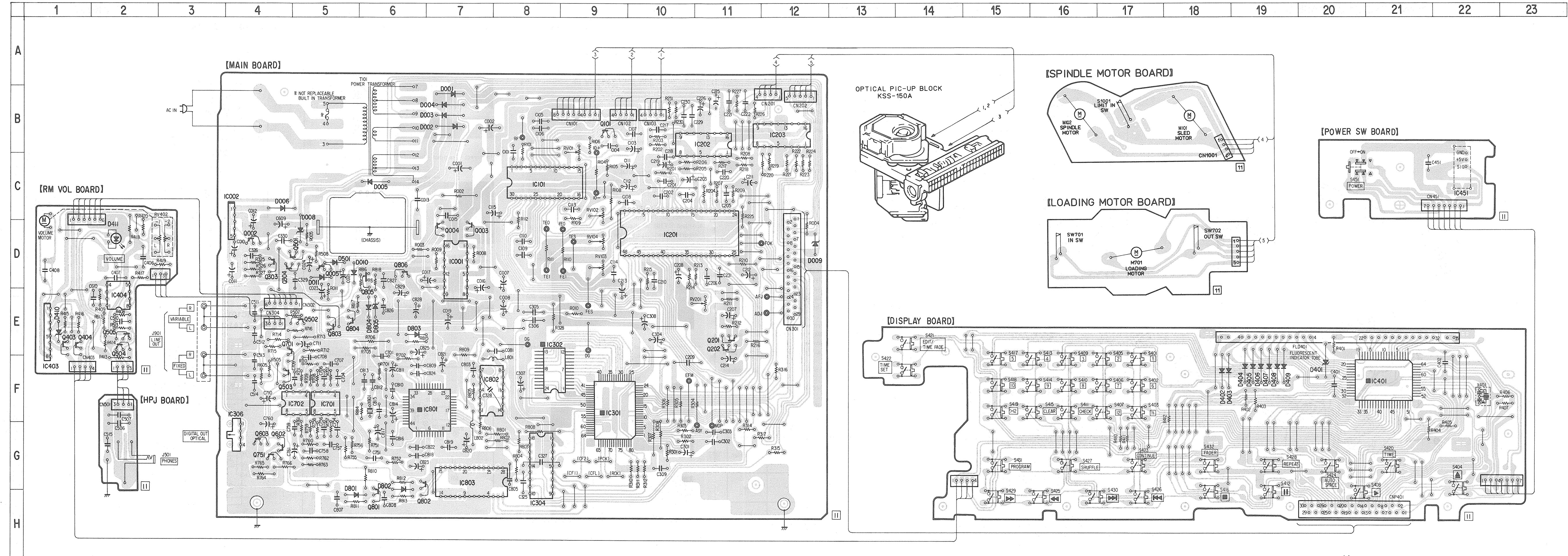
IC801
CXD2552Q



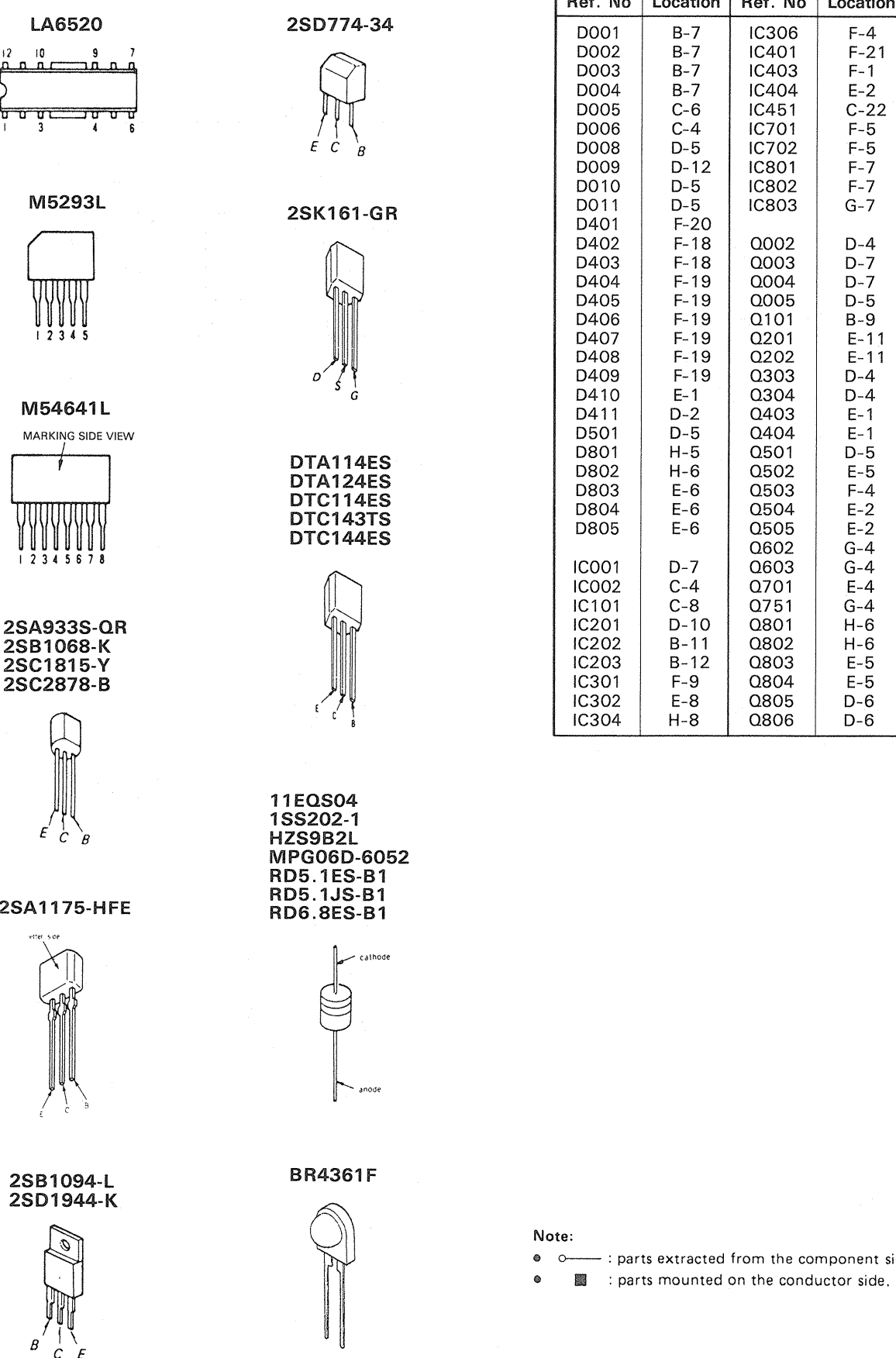
IC803
CXD2553S



4-2. PRINTED WIRING BOARDS



● SEMICONDUCTOR LEAD LAYOUTS

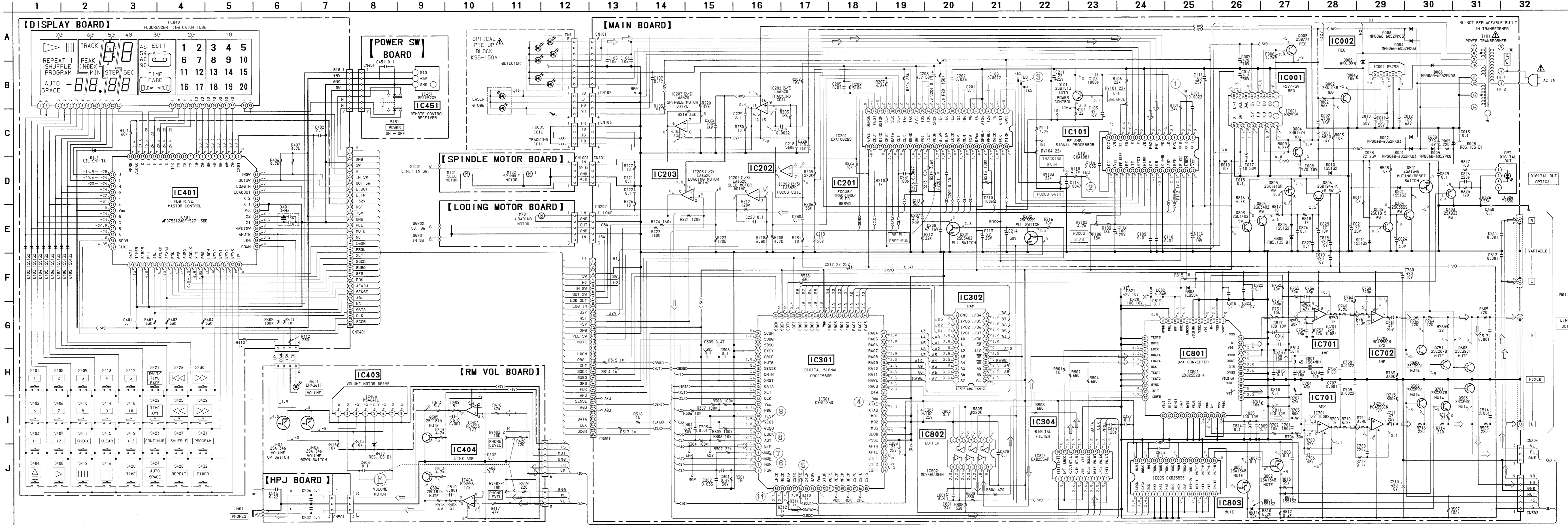


● SEMICONDUCTOR LOCATION

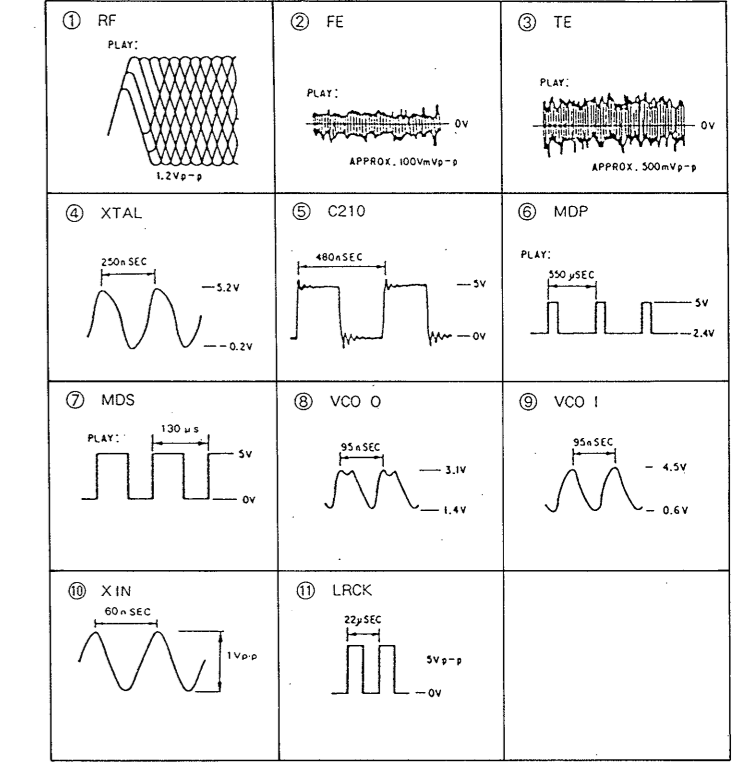
Ref. No	Location	Ref. No	Location
D001	B-7	IC306	F-4
D002	B-7	IC401	F-21
D003	B-7	IC403	F-1
D004	B-7	IC404	E-2
D005	C-6	IC451	C-22
D006	C-4	IC701	F-5
D008	D-5	IC702	F-5
D009	D-12	IC801	F-7
D010	D-5	IC802	F-7
D011	D-5	IC803	G-7
D401	F-20		
D402	F-18	Q002	D-4
D403	F-18	Q003	D-7
D404	F-19	Q004	D-7
D405	F-19	Q005	D-5
D406	F-19	Q101	B-9
D407	F-19	Q201	E-11
D408	F-19	Q202	E-11
D409	F-19	Q303	D-4
D410	E-1	Q304	D-4
D411	D-2	Q403	E-1
D501	D-5	Q404	E-1
D801	H-5	Q501	D-5
D802	H-6	Q502	F-5
D803	E-6	Q503	F-4
D804	E-6	Q504	E-2
D805	E-6	Q505	E-2
		Q602	G-4
IC001	D-7	Q603	G-4
IC002	C-4	Q701	E-4
IC101	C-8	Q751	G-4
IC201	D-10	Q801	H-6
IC202	B-11	Q802	H-6
IC203	B-12	Q803	E-5
IC301	F-9	Q804	F-5
IC302	E-8	Q805	D-6
IC304	H-8	Q806	D-6

Note:
 ○ : parts extracted from the component side.
 ● : parts mounted on the conductor side.

4-3. SCHEMATIC DIAGRAM



• WAVEFORM



Note:

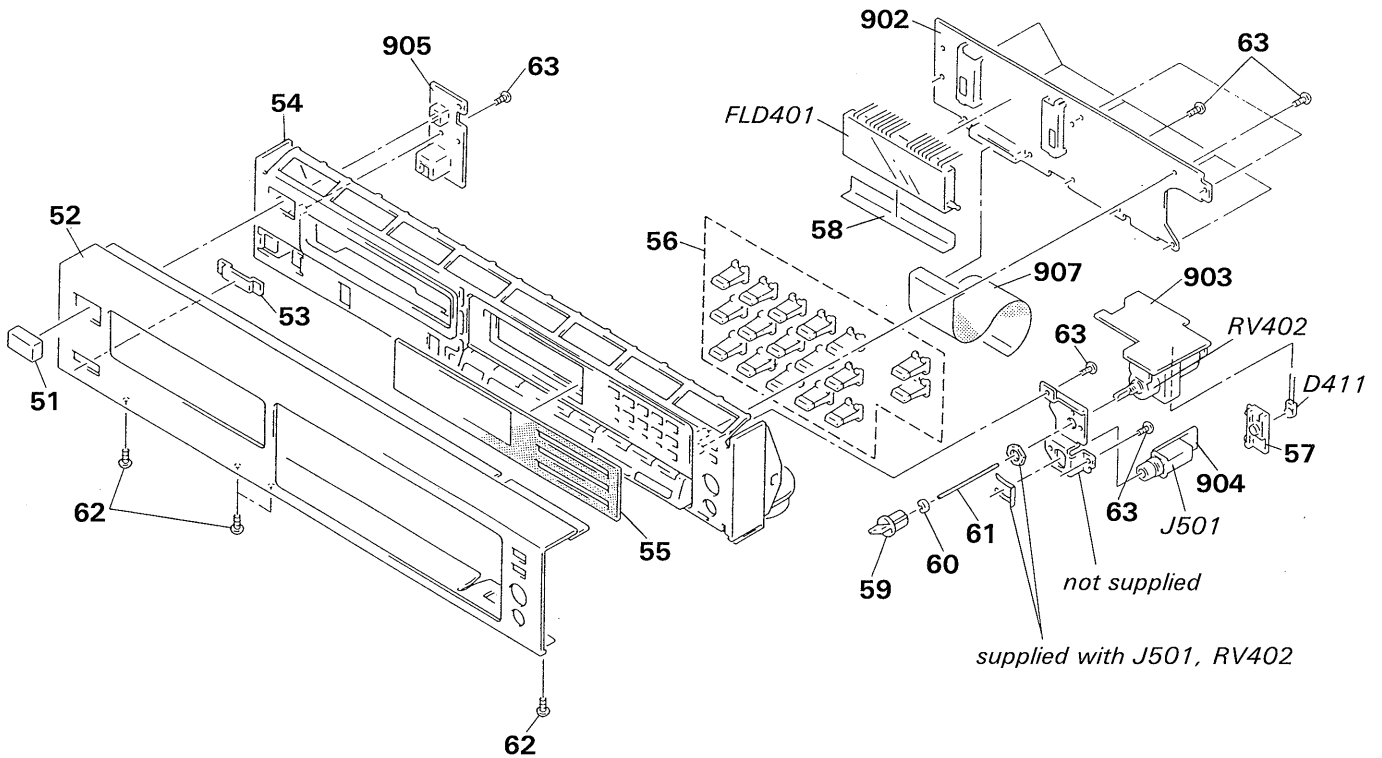
- All capacitors are in μF unless otherwise noted. pF : μF 50V or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- % : indicates tolerance.
- Δ : internal component.

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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

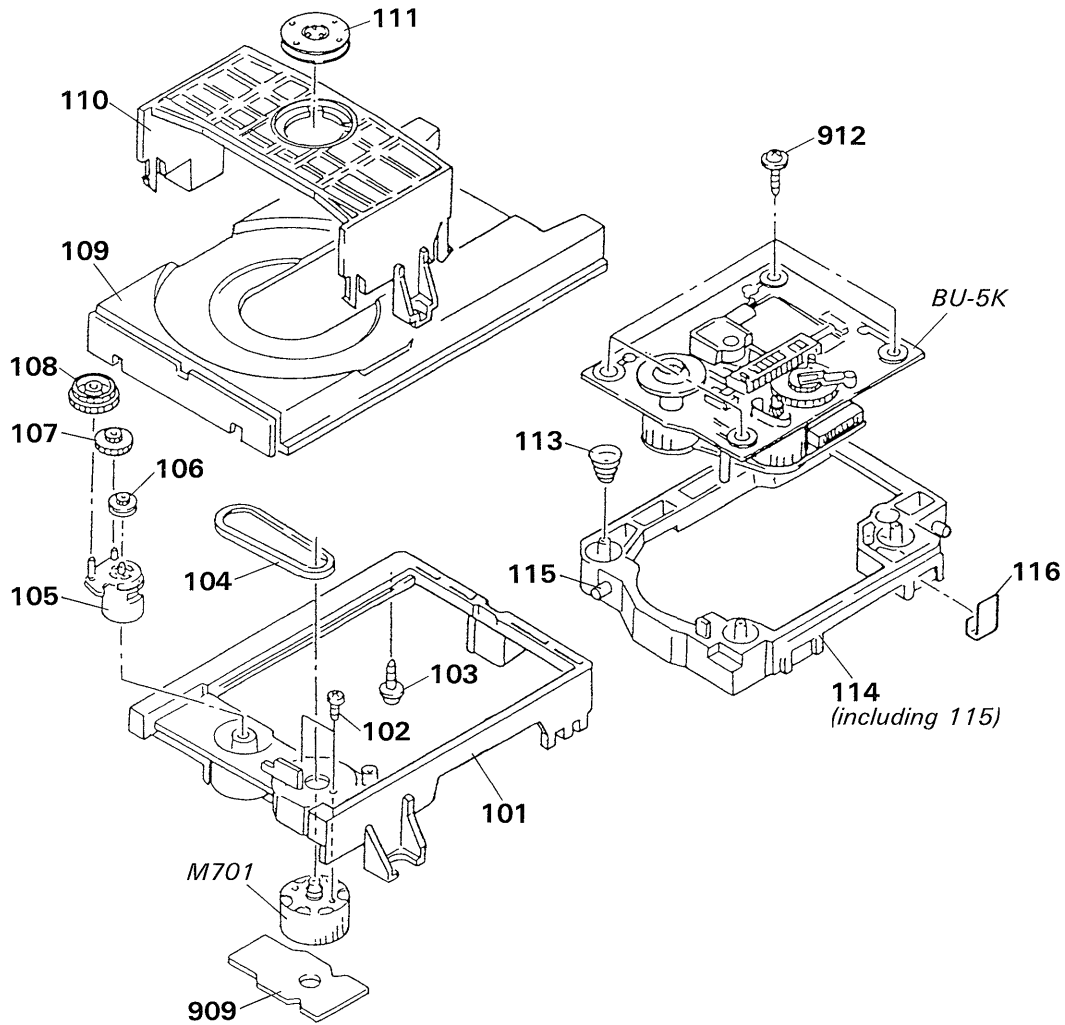
- --- : B+ Line
- --- : B- Line
- --- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions. no mark : PLAY
- Voltages are taken with a VOM (input impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- --- : CD

5-2. FRONT PANEL SECTION



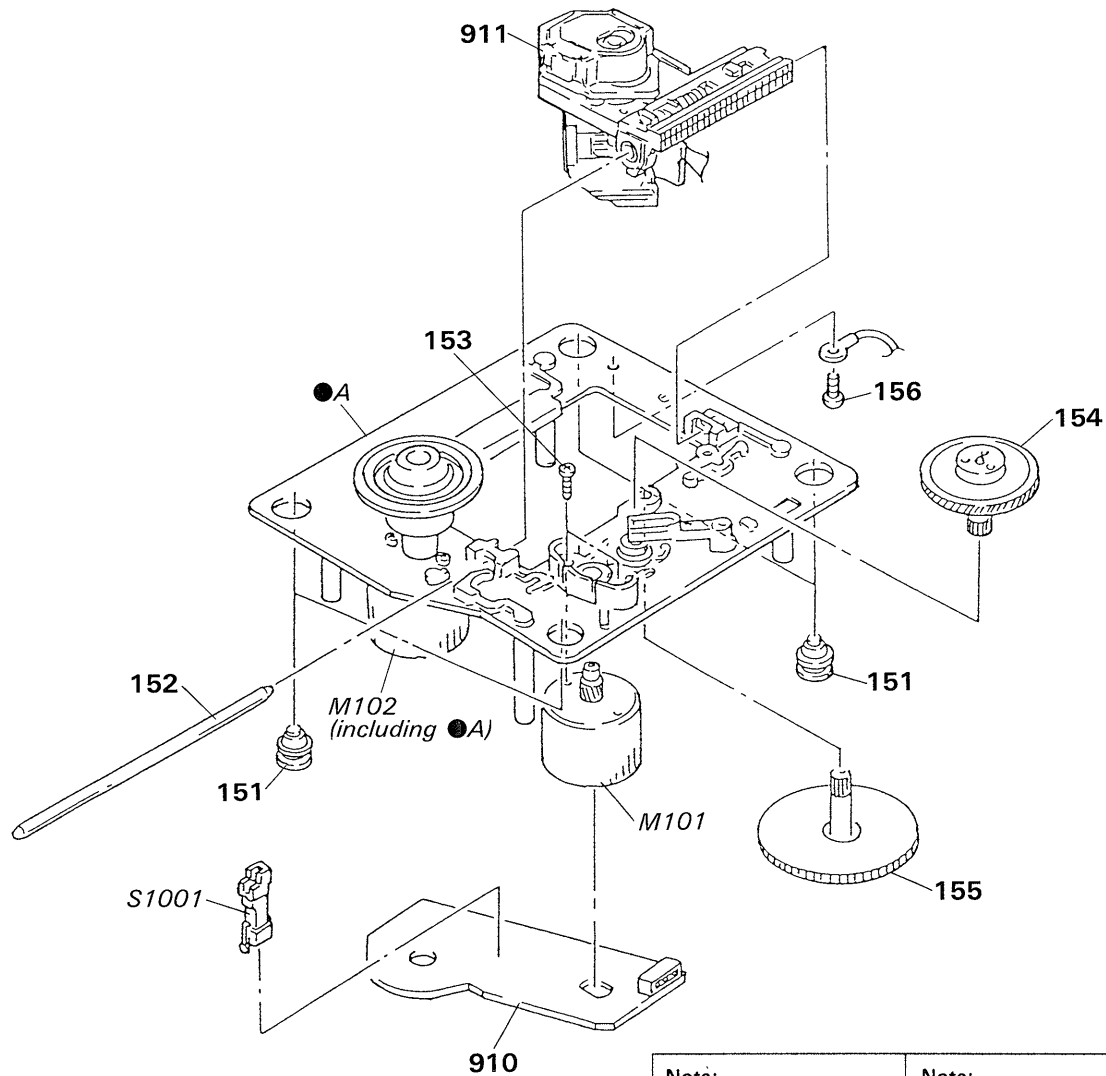
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	4-922-921-01	BUTTON (POWER)		62	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
52	4-933-233-02	PANEL (FRONT)		63	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
53	4-933-236-01	PLATE, RAY CATCHER		902	*A-4617-352-A	MOUNTED PCB, DISPLAY	
54	X-4933-210-3	PANEL ASSY, SUB		903	*A-4617-356-A	MOUNTED PCB, VOL, REMOTE CONTROL	
55	4-933-235-01	PLATE, INDICATION		904	*1-634-316-11	PC BOARD, HP	
56	4-933-237-01	BUTTON (M/C)		905	*1-634-317-11	PC BOARD, P.SW	
57	*4-922-980-01	HOLDER (LED)		907	1-575-120-11	WIRE, FLAT TYPE (30 CORE)	
58	*4-927-353-01	SHEET (FL)		D411	8-719-970-49	DIODE BR4301F	
59	4-922-977-01	KNOB (HP)		FLD401	1-519-556-11	INDICATOR TUBE, FLUORESCENT	
60	4-922-978-01	HOLDER (FIBER)		J501	1-568-519-51	JACK, LARGE TYPE (PHONES)	
61	4-922-979-01	INDICATOR		RV402	1-238-974-11	RES, VAR, CARBON 10K/10K (PHONE LEVEL)	

5-3. CD MECHANISM SECTION (CDM14A-5K)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	4-933-111-01	CHASSIS (MD)		110	4-933-110-01	HOLDER (MG)	
102	7-621-775-10	SCREW +B 2.6X4		111	A-4675-347-A	MG ASSY	
103	*4-917-583-21	BRACKET, YOKE		112	4-933-134-01	SCREW (+PTPWH M2.6X6)	
104	4-927-649-01	BELT		113	4-917-541-01	SPRING (B)	
105	4-933-109-01	CAM		114	4-933-129-01	HOLDER (BU)	115
106	4-927-651-01	PULLEY (S)		115	4-933-108-01	SHAFT (CAM)	
107	4-927-628-01	GEAR (C)		116	3-831-441-XX	CUSHION (B), CABINET	
108	4-933-107-01	GEAR (PL)		909	*1-632-169-11	PC BOARD, LOADING MOTOR	
109	4-933-112-01	TABLE, DISK		M701	A-4608-362-A	MOTOR (L) ASSY	

5-4. OPTICAL PICK-UP BLOCK(BU-5K)



Noté:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque \triangle 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	4-933-126-01	INSULATOR (A)		910	*1-632-460-12	PC BOARD, SL/SP MOTOR	
152	4-917-565-01	SHAFT, SLED		911	\triangle .8-848-062-01	DEVICE, OPTICAL KSS-150A(H)	
153	7-621-255-15	SCREW +P 2X3		M101	X-4917-504-1	MOTOR ASSY (SLED)	
154	4-917-567-01	GEAR (M)		M102	X-4917-523-3	MOTOR ASSY (SPINDLE)	
155	4-917-564-01	GEAR (P), FLATNESS		S1001	1-572-436-11	SWITCH, LEAF (LIMIT IN)	
156	7-621-773-86	SCREW +BVTT 2.6X4 (S)					

SECTION 6 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: μ F, PF: μ μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

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

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ 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	*A-4617-509-A	MOUNTED PCB, MAIN	C205	1-162-306-11	CERAMIC	0.01MF	20%	16V			
902	*A-4617-352-A	MOUNTED PCB, DISPLAY	C206	1-161-377-00	CERAMIC	0.0047MF	20%	16V			
903	*A-4617-356-A	MOUNTED PCB, VOL, REMOTE CONTROL	C207	1-124-927-11	ELECT	4.7MF	20%	50V			
904	*1-634-316-11	PC BOARD, HP	C208	1-124-477-11	ELECT	47MF	20%	16V			
905	*1-634-317-11	PC BOARD, P.SW	C209	1-162-294-31	CERAMIC	0.001MF	10%	50V			
906	*1-535-771-11	TERMINAL	C210	1-162-282-31	CERAMIC	100PF	10%	50V			
907	1-575-120-11	WIRE, FLAT TYPE (30 CORE)	C211	1-126-233-11	ELECT	22MF	20%	25V			
908	Δ 1-574-127-11	CORD, POWER	C212	1-126-233-11	ELECT	22MF	20%	25V			
909	*1-632-169-11	PC BOARD, LOADING MOTOR	C213	1-126-233-11	ELECT	22MF	20%	25V			
910	*1-632-460-12	PC BOARD, SL/SP MOTOR	C214	1-124-791-11	ELECT	1MF	20%	50V			
911	Δ 8-848-062-01	DEVICE, OPTICAL KSS-150A(H)	C217	1-161-375-00	CERAMIC	0.0022MF	20%	16V			
C001	1-126-017-11	ELECT	6800MF	20%	16V	C218	1-162-291-31	CERAMIC	560PF	10%	50V
C002	1-124-898-11	ELECT	4700MF	20%	16V	C219	1-123-875-11	ELECT	10MF	20%	50V
C007	1-124-472-11	ELECT	470MF	20%	10V	C220	1-136-165-00	FILM	0.1MF	5%	50V
C008	1-124-472-11	ELECT	470MF	20%	10V	C221	1-164-159-11	CERAMIC	0.1MF		50V
C010	1-124-791-11	ELECT	1MF	20%	50V	C222	1-164-159-11	CERAMIC	0.1MF		50V
C011	1-123-875-11	ELECT	10MF	20%	50V	C225	1-126-101-11	ELECT	100MF	20%	16V
C012	1-124-572-11	ELECT	100MF	20%	63V	C226	1-126-101-11	ELECT	100MF	20%	16V
C013	1-164-159-11	CERAMIC	0.1MF		50V	C229	1-164-159-11	CERAMIC	0.1MF		50V
C015	1-164-159-11	CERAMIC	0.1MF		50V	C230	1-164-159-11	CERAMIC	0.1MF		50V
C016	1-124-927-11	ELECT	4.7MF	20%	50V	C231	1-162-282-31	CERAMIC	100PF	10%	50V
C017	1-123-875-11	ELECT	10MF	20%	50V	C301	1-124-902-00	ELECT	0.47MF	20%	50V
C019	1-124-472-11	ELECT	470MF	20%	10V	C302	1-106-379-12	MYLAR	0.033MF	5%	100V
C021	1-126-233-11	ELECT	22MF	20%	25V	C303	1-162-306-11	CERAMIC	0.01MF	20%	16V
C023	1-126-233-11	ELECT	22MF	20%	25V	C304	1-124-902-00	ELECT	0.47MF	20%	50V
C024	1-124-791-11	ELECT	1MF	20%	50V	C305	1-164-159-11	CERAMIC	0.1MF		50V
C101	1-106-351-00	MYLAR	0.0022MF	5%	50V	C306	1-164-159-11	CERAMIC	0.1MF		50V
C103	1-124-477-11	ELECT	47MF	20%	16V	C307	1-124-478-11	ELECT	100MF	20%	25V
C104	1-162-294-31	CERAMIC	0.001MF	10%	50V	C308	1-126-233-11	ELECT	22MF	20%	25V
C105	1-162-199-31	CERAMIC	10PF	5%	50V	C309	1-136-173-00	FILM	0.47MF	5%	50V
C106	1-162-199-31	CERAMIC	10PF	5%	50V	C325	1-162-283-31	CERAMIC	120PF	10%	50V
C107	1-136-173-00	FILM	0.47MF	5%	50V	C326	1-162-286-31	CERAMIC	220PF	10%	50V
C108	1-161-375-00	CERAMIC	0.0022MF	20%	16V	C327	1-164-159-11	CERAMIC	0.1MF		50V
C109	1-106-367-00	MYLAR	0.01MF	5%	100V	C328	1-164-159-11	CERAMIC	0.1MF		50V
C110	1-106-367-00	MYLAR	0.01MF	5%	100V	C329	1-164-159-11	CERAMIC	0.1MF		50V
C111	1-124-478-11	ELECT	100MF	20%	25V	C330	1-164-159-11	CERAMIC	0.1MF		50V
C112	1-124-478-11	ELECT	100MF	20%	25V	C401	1-164-159-11	CERAMIC	0.1MF		50V
C113	1-106-379-12	MYLAR	0.033MF	5%	100V	C402	1-164-159-11	CERAMIC	0.1MF		50V
C114	1-161-377-00	CERAMIC	0.0047MF	20%	16V	C406	1-164-159-11	CERAMIC	0.1MF		50V
C115	1-126-233-11	ELECT	22MF	20%	25V	C407	1-164-159-11	CERAMIC	0.1MF		50V
C201	1-136-165-00	FILM	0.1MF	5%	50V	C408	1-164-159-11	CERAMIC	0.1MF		50V
C202	1-106-379-12	MYLAR	0.033MF	5%	100V	C451	1-164-159-11	CERAMIC	0.1MF		50V
C203	1-124-927-11	ELECT	4.7MF	20%	50V	C506	1-164-159-11	CERAMIC	0.1MF		50V
C204	1-136-165-00	FILM	0.1MF	5%	50V	C507	1-164-159-11	CERAMIC	0.1MF		50V
						C510	1-162-294-31	CERAMIC	0.001MF	10%	50V

Ref.No.	Part No.	Description				
C511	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C512	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C513	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C514	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C515	1-136-169-00	FILM	0.22MF	5%	50V	
C609	1-124-120-11	ELECT	220MF	20%	16V	
C610	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C701	1-162-285-31	CERAMIC	180PF	10%	50V	
C704	1-162-214-31	CERAMIC	43PF	5%	50V	
C706	1-162-214-31	CERAMIC	43PF	5%	50V	
C707	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C708	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C709	1-102-978-00	CERAMIC	220PF	5%	50V	
C710	1-124-472-11	ELECT	470MF	20%	10V	
C711	1-124-477-11	ELECT	47MF	20%	25V	
C751	1-162-285-31	CERAMIC	180PF	10%	50V	
C754	1-162-214-31	CERAMIC	43PF	5%	50V	
C756	1-162-214-31	CERAMIC	43PF	5%	50V	
C757	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C758	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C759	1-102-978-00	CERAMIC	220PF	5%	50V	
C760	1-124-472-11	ELECT	470MF	20%	10V	
C761	1-124-477-11	ELECT	47MF	20%	25V	
C801	1-162-208-31	CERAMIC	24PF	5%	50V	
C803	1-136-165-00	FILM	0.1MF	5%	50V	
C805	1-164-159-11	CERAMIC	0.1MF	5%	50V	
C807	1-136-165-00	FILM	0.1MF	5%	50V	
C808	1-136-165-00	FILM	0.1MF	5%	50V	
C809	1-136-165-00	FILM	0.1MF	5%	50V	
C810	1-136-165-00	FILM	0.1MF	5%	50V	
C811	1-124-443-00	ELECT	100MF	20%	10V	
C812	1-162-199-31	CERAMIC	10PF	5%	50V	
C813	1-162-199-31	CERAMIC	10PF	5%	50V	
C814	1-124-443-00	ELECT	100MF	20%	10V	
C815	1-136-165-00	FILM	0.1MF	5%	50V	
C816	1-136-165-00	FILM	0.1MF	5%	50V	
C817	1-124-443-00	ELECT	100MF	20%	10V	
C818	1-136-165-00	FILM	0.1MF	5%	50V	
C819	1-136-165-00	FILM	0.1MF	5%	50V	
C820	1-124-443-00	ELECT	100MF	20%	10V	
C821	1-124-472-11	ELECT	470MF	20%	10V	
C822	1-136-165-00	FILM	0.1MF	5%	50V	
C823	1-124-443-00	ELECT	100MF	20%	10V	
C824	1-136-165-00	FILM	0.1MF	5%	50V	
C825	1-124-443-00	ELECT	100MF	20%	10V	
C826	1-136-165-00	FILM	0.1MF	5%	50V	
C827	1-136-165-00	FILM	0.1MF	5%	50V	
C828	1-124-472-11	ELECT	470MF	20%	10V	
C829	1-124-446-11	ELECT	47MF	20%	10V	
CN101	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P				
CN102	*1-564-706-31	PIN, CONNECTOR (SMALL TYPE) 4P				
CN103	*1-564-706-31	PIN, CONNECTOR (SMALL TYPE) 4P				
CN201	*1-568-953-11	PIN, CONNECTOR 4P				
CN202	*1-568-954-11	PIN, CONNECTOR 5P				
CN301	*1-568-933-11	SOCKET, CONNECTOR 30P				
CN302	*1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P				
CN304	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P				
CN501	*1-568-952-11	PIN, CONNECTOR 3P				
CN1001	*1-568-942-11	PIN, CONNECTOR 4P				

Ref.No.	Part No.	Description
CNP401	*1-568-933-11	SOCKET, CONNECTOR 30P
CNP403	*1-568-953-11	PIN, CONNECTOR 4P
D001	8-719-950-59	DIODE MPG06D-6052
D002	8-719-950-59	DIODE MPG06D-6052
D003	8-719-950-59	DIODE MPG06D-6052
D004	8-719-950-59	DIODE MPG06D-6052
D005	8-719-950-59	DIODE MPG06D-6052
D006	8-719-950-59	DIODE MPG06D-6052
D008	8-719-109-84	DIODE RD5.1ES-B1
D009	8-719-109-96	DIODE RD6.8ES-B1
D010	8-719-107-94	DIODE 1SS202-1
D011	8-719-107-94	DIODE 1SS120-1
D401	8-719-933-57	DIODE HZS9B2L
D402	8-719-107-94	DIODE 1SS202-1
D403	8-719-107-94	DIODE 1SS202-1
D404	8-719-107-94	DIODE 1SS202-1
D405	8-719-107-94	DIODE 1SS202-1
D406	8-719-107-94	DIODE 1SS202-1
D407	8-719-107-94	DIODE 1SS202-1
D408	8-719-107-94	DIODE 1SS202-1
D409	8-719-107-94	DIODE 1SS202-1
D410	8-719-109-84	DIODE RD5.1ES-B1
D411	8-719-970-49	DIODE BR4301F
D501	8-719-107-94	DIODE 1SS202-1
D801	8-719-107-94	DIODE 1SS202-1
D802	8-719-107-94	DIODE 1SS202-1
D803	8-719-210-21	DIODE 11EQS04
D804	8-719-107-94	DIODE 1SS202-1
D805	8-719-114-29	DIODE RD5.1JS-B1
FLD401	1-519-556-11	INDICATOR TUBE, FLUORESCENT
IC001	8-759-630-21	IC M5290P-16
IC002	8-759-633-42	IC M5293L
IC101	8-752-034-00	IC CXA1081S
IC201	8-752-032-30	IC CXA1082BS
IC202	8-759-805-18	IC LA6520
IC203	8-759-805-18	IC LA6520
IC301	8-752-334-00	IC CXD1125Q
IC302	8-759-994-18	IC UM6116M-2L
IC304	8-752-337-09	IC CXD2554P
IC306	8-749-921-20	IC T-1550
IC401	8-759-148-72	IC UPD75212AGF-527-3BE
IC403	8-759-633-65	IC M54641L
IC404	8-759-981-85	IC RC4556D
IC451	8-749-920-83	IC GP1U52XB
IC701	8-759-990-82	IC TL082CP
IC702	8-759-995-08	IC MC4558CN
IC801	8-752-334-87	IC CXD2552Q
IC802	8-759-917-18	IC SN74HCU04N
IC803	8-752-334-77	IC CXD2553S
J501	1-568-519-51	JACK, LARGE TYPE (PHONES)
J901	*1-569-443-11	JACK, PIN 4P (LINE OUT)
M101	X-4917-504-1	MOTOR ASSY (SLED)
M102	X-4917-523-3	MOTOR ASSY (SPINDLE)
M701	A-4608-362-A	MOTOR (L) ASSY

Ref.No.	Part No.	Description							
L801	1-408-403-00	INDUCTOR	3.3UH						
L802	1-410-507-11	INDUCTOR	6.8UH						
Q002	8-729-119-76	TRANSISTOR	2SA1175-HFE						
Q003	8-729-140-96	TRANSISTOR	2SD774-34						
Q004	8-729-111-67	TRANSISTOR	2SB1094-L						
Q005	8-729-281-52	TRANSISTOR	2SC1815-Y						
Q101	8-729-116-57	TRANSISTOR	2SB1068-K						
Q201	8-729-900-80	TRANSISTOR	DTC114ES						
Q202	8-729-900-89	TRANSISTOR	DTC144ES						
Q303	8-729-920-68	TRANSISTOR	2SA933S-QR						
Q304	8-729-900-89	TRANSISTOR	DTC144ES						
Q403	8-729-900-63	TRANSISTOR	DTA124ES						
Q404	8-729-900-63	TRANSISTOR	DTA124ES						
Q501	8-729-900-61	TRANSISTOR	DTA114ES						
Q502	8-729-900-74	TRANSISTOR	DTC143TS						
Q503	8-729-900-74	TRANSISTOR	DTC143TS						
Q504	8-729-281-52	TRANSISTOR	2SC1815-Y						
Q505	8-729-281-52	TRANSISTOR	2SC1815-Y						
Q602	8-729-900-74	TRANSISTOR	DTC143TS						
Q603	8-729-900-74	TRANSISTOR	DTC143TS						
Q701	8-729-201-05	TRANSISTOR	2SC2878-B						
Q751	8-729-201-05	TRANSISTOR	2SC2878-B						
Q801	8-729-900-61	TRANSISTOR	DTA114ES						
Q802	8-729-900-61	TRANSISTOR	DTA114ES						
Q803	8-729-900-80	TRANSISTOR	DTC114ES						
Q804	8-729-900-80	TRANSISTOR	DTC114ES						
Q805	8-729-216-13	TRANSISTOR	2SK161-GR						
Q806	8-729-905-67	TRANSISTOR	2SD1944-K						
R002	1-249-438-11	CARBON	56K	5%	1/4W				
R003	1-249-429-11	CARBON	10K	5%	1/4W				
R004	1-249-429-11	CARBON	10K	5%	1/4W				
R005	1-249-409-11	CARBON	220	5%	1/4W				
R008	1-249-425-11	CARBON	4.7K	5%	1/4W				
R009	1-249-425-11	CARBON	4.7K	5%	1/4W				
R010	1-249-429-11	CARBON	10K	5%	1/4W				
R011	1-249-429-11	CARBON	10K	5%	1/4W				
R101	1-247-864-11	CARBON	24K	5%	1/4W				
R104	1-249-397-11	CARBON	22	5%	1/4W				
R105	1-247-806-11	CARBON	91	5%	1/4W				
R106	1-249-433-11	CARBON	22K	5%	1/4W				
R108	1-249-432-11	CARBON	18K	5%	1/4W				
R109	1-249-432-11	CARBON	18K	5%	1/4W				
R110	1-249-425-11	CARBON	4.7K	5%	1/4W				
R111	1-249-425-11	CARBON	4.7K	5%	1/4W				
R112	1-249-417-11	CARBON	1K	5%	1/4W				
R201	1-247-882-11	CARBON	130K	5%	1/4W				
R202	1-249-432-11	CARBON	18K	5%	1/4W				
R203	1-249-432-11	CARBON	18K	5%	1/4W				
R204	1-249-439-11	CARBON	68K	5%	1/4W				
R205	1-247-889-00	CARBON	270K	5%	1/4W				
R206	1-249-435-11	CARBON	33K	5%	1/4W				
R207	1-249-423-11	CARBON	3.3K	5%	1/4W				
R208	1-249-425-11	CARBON	4.7K	5%	1/4W				
R209	1-247-896-11	CARBON	510K	5%	1/4W				
R210	1-249-417-11	CARBON	1K	5%	1/4W				
R211	1-249-414-11	CARBON				560	5%	1/4W	
R212	1-249-433-11	CARBON				22K	5%	1/4W	
R213	1-249-441-11	CARBON				100K	5%	1/4W	
R214	1-247-844-11	METAL				3.6K	5%	1/4W	
R215	1-249-441-11	CARBON				100K	5%	1/4W	
R216	1-249-429-11	CARBON				10K	5%	1/4W	
R217	1-247-881-00	CARBON				120K	5%	1/4W	
R218	1-249-427-11	CARBON				6.8K	5%	1/4W	
R219	1-249-435-11	CARBON				33K	5%	1/4W	
R220	1-249-437-11	CARBON				47K	5%	1/4W	
R221	1-247-881-00	CARBON				120K	5%	1/4W	
R222	1-247-884-11	CARBON				160K	5%	1/4W	
R223	1-247-881-00	CARBON				120K	5%	1/4W	
R224	1-247-884-11	CARBON				160K	5%	1/4W	
R225	1-249-429-11	CARBON				10K	5%	1/4W	
R226	1-249-393-11	CARBON				10	5%	1/4W	
R227	1-249-393-11	CARBON				10	5%	1/4W	
R230	1-249-393-11	CARBON				10	5%	1/4W	
R231	1-249-393-11	CARBON				10	5%	1/4W	
R301	1-247-903-00	CARBON				1M	5%	1/4W	
R302	1-249-433-11	CARBON				22K	5%	1/4W	
R303	1-249-429-11	CARBON				10K	5%	1/4W	
R304	1-249-441-11	CARBON				100K	5%	1/4W	
R305	1-249-441-11	CARBON				100K	5%	1/4W	
R306	1-249-429-11	CARBON				10K	5%	1/4W	
R307	1-249-441-11	METAL				100K	5%	1/4W	
R308	1-249-441-11	METAL				100K	5%	1/4W	
R310	1-249-417-11	CARBON				1K	5%	1/4W	
R311	1-249-417-11	CARBON				1K	5%	1/4W	
R312	1-249-417-11	CARBON				1K	5%	1/4W	
R314	1-249-417-11	CARBON				1K	5%	1/4W	
R315	1-249-417-11	CARBON				1K	5%	1/4W	
R316	1-249-417-11	CARBON				1K	5%	1/4W	
R317	1-249-417-11	CARBON				1K	5%	1/4W	
R325	1-249-406-11	CARBON				120	5%	1/4W	
R326	1-249-435-11	CARBON				33K	5%	1/4W	
R327	1-249-405-11	CARBON				100	5%	1/4W	
R328	1-249-411-11	CARBON				330	5%	1/4W	
R401	1-249-439-11	CARBON				68K	5%	1/4W	
R402	1-249-435-11	CARBON				33K	5%	1/4W	
R403	1-249-435-11	CARBON				33K	5%	1/4W	
R404	1-249-435-11	CARBON				33K	5%	1/4W	
R405	1-249-441-11	CARBON				100K	5%	1/4W	
R406	1-249-425-11	CARBON				4.7K	5%	1/4W	
R407	1-249-425-11	CARBON				4.7K	5%	1/4W	
R408	1-247-800-11	CARBON				51	5%	1/4W	
R409	1-247-800-11	CARBON				51	5%	1/4W	
R410	1-249-417-11	CARBON				1K	5%	1/4W	
R411	1-249-417-11	CARBON				1K	5%	1/4W	
R412	1-249-411-11	CARBON				330	5%	1/4W	
R413	1-249-425-11	CARBON				4.7K	5%	1/4W	
R414	1-249-425-11	CARBON				4.7K	5%	1/4W	
R415	1-249-429-11	CARBON				10K	5%	1/4W	
R416	1-249-429-11	CARBON				10K	5%	1/4W	
R417	1-249-437-11	CARBON				47K	5%	1/4W	
R418	1-249-437-11	CARBON				47K	5%	1/4W	
R419	1-249-409-11	CARBON				220	5%	1/4W	

Ref.No.	Part No.	Description			
R420	1-249-409-11	CARBON	220	5%	1/4W
R505	1-249-409-11	CARBON	220	5%	1/4W
R507	1-249-441-11	CARBON	100K	5%	1/4W
R508	1-249-429-11	CARBON	10K	5%	1/4W
R513	1-249-390-11	CARBON	5.6	5%	1/4W
R605	1-249-409-11	CARBON	220	5%	1/4W
R613	1-249-390-11	CARBON	5.6	5%	1/4W
R701	1-249-429-11	CARBON	10K	5%	1/4W
R702	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-247-866-11	CARBON	30K	5%	1/4W
R706	1-247-866-11	CARBON	30K	5%	1/4W
R707	1-249-437-11	CARBON	47K	5%	1/4W
R708	1-249-437-11	CARBON	47K	5%	1/4W
R709	1-249-417-11	CARBON	1K	5%	1/4W
R710	1-247-850-11	CARBON	6.2K	5%	1/4W
R711	1-249-424-11	CARBON	3.9K	5%	1/4W
R712	1-247-854-11	CARBON	9.1K	5%	1/4W
R713	1-247-891-00	CARBON	330K	5%	1/4W
R714	1-249-409-11	CARBON	220	5%	1/4W
R715	1-249-397-11	CARBON	22	5%	1/4W
R716	1-249-409-11	CARBON	220	5%	1/4W
R751	1-249-429-11	CARBON	10K	5%	1/4W
R752	1-249-429-11	CARBON	10K	5%	1/4W
R755	1-247-866-11	CARBON	30K	5%	1/4W
R756	1-247-866-11	CARBON	30K	5%	1/4W
R757	1-249-437-11	CARBON	47K	5%	1/4W
R758	1-249-437-11	CARBON	47K	5%	1/4W
R759	1-249-417-11	CARBON	1K	5%	1/4W
R760	1-247-850-11	CARBON	6.2K	5%	1/4W
R761	1-249-424-11	CARBON	3.9K	5%	1/4W
R762	1-247-854-11	CARBON	9.1K	5%	1/4W
R763	1-247-891-00	CARBON	330K	5%	1/4W
R764	1-249-409-11	CARBON	220	5%	1/4W
R765	1-249-397-11	CARBON	22	5%	1/4W
R766	1-249-409-11	CARBON	220	5%	1/4W
R801	1-249-417-11	CARBON	1K	5%	1/4W
R802	1-249-415-11	CARBON	680	5%	1/4W
R803	1-249-415-11	CARBON	680	5%	1/4W
R804	1-249-415-11	CARBON	680	5%	1/4W
R805	1-247-887-00	CARBON	220K	5%	1/4W
R806	1-249-413-11	CARBON	470	5%	1/4W
R808	1-249-411-11	CARBON	330	5%	1/4W
R809	1-249-411-11	CARBON	330	5%	1/4W
R810	1-249-428-11	CARBON	8.2K	5%	1/4W
R811	1-249-436-11	CARBON	39K	5%	1/4W
R812	1-249-428-11	CARBON	8.2K	5%	1/4W
R813	1-249-436-11	CARBON	39K	5%	1/4W
R814	1-247-848-11	CARBON	5.1K	5%	1/4W
R815	1-249-393-11	CARBON	10	5%	1/4W
R816	1-249-425-11	CARBON	4.7K	5%	1/4W
R817	1-249-393-11	CARBON	10	5%	1/4W
R818	1-249-417-11	CARBON	1K	5%	1/4W
RV101	1-228-995-00	RES, ADJ, CARBON 22K			
RV102	1-228-993-00	RES, ADJ, CARBON 4.7K			
RV103	1-228-995-00	RES, ADJ, CARBON 22K			
RV104	1-228-995-00	RES, ADJ, CARBON 22K			
RV201	1-228-990-00	RES, ADJ, METAL GLAZE 1K			
RV402	1-238-974-11	RES, VAR, CARBON 10K/10K (PHONE LEVEL)			

Ref.No.	Part No.	Description
S401	1-554-596-21	SWITCH, KEY BOARD (1)
S402	1-554-596-21	SWITCH, KEY BOARD (6)
S403	1-554-596-21	SWITCH, KEY BOARD (11)
S404	1-554-596-21	SWITCH, KEY BOARD (▲)
S405	1-554-596-21	SWITCH, KEY BOARD (2)
S406	1-554-596-21	SWITCH, KEY BOARD (7)
S407	1-554-596-21	SWITCH, KEY BOARD (12)
S408	1-554-596-21	SWITCH, KEY BOARD (▶)
S409	1-554-596-21	SWITCH, KEY BOARD (3)
S410	1-554-596-21	SWITCH, KEY BOARD (8)
S411	1-554-596-21	SWITCH, KEY BOARD (CHECK)
S412	1-554-596-21	SWITCH, KEY BOARD (■)
S413	1-554-596-21	SWITCH, KEY BOARD (4)
S414	1-554-596-21	SWITCH, KEY BOARD (9)
S415	1-554-596-21	SWITCH, KEY BOARD (CLEAR)
S416	1-554-596-21	SWITCH, KEY BOARD (■)
S417	1-554-596-21	SWITCH, KEY BOARD (5)
S418	1-554-596-21	SWITCH, KEY BOARD (10)
S419	1-554-596-21	SWITCH, KEY BOARD (>12)
S420	1-554-596-21	SWITCH, KEY BOARD (TIME)
S421	1-554-596-21	SWITCH, KEY BOARD (EDIT/TIME FADE)
S422	1-554-596-21	SWITCH, KEY BOARD (TIME SET)
S423	1-554-596-21	SWITCH, KEY BOARD (CONTINUE)
S424	1-554-596-21	SWITCH, KEY BOARD (AUTO SPACE)
S425	1-554-596-21	SWITCH, KEY BOARD (◀◀)
S426	1-554-596-21	SWITCH, KEY BOARD (◀◀)
S427	1-554-596-21	SWITCH, KEY BOARD (SHUFFLE)
S428	1-554-596-21	SWITCH, KEY BOARD (REPEAT)
S429	1-554-596-21	SWITCH, KEY BOARD (▶▶)
S430	1-554-596-21	SWITCH, KEY BOARD (▶▶)
S431	1-554-596-21	SWITCH, KEY BOARD (PROGRAM)
S432	1-554-596-21	SWITCH, KEY BOARD (FADER)
S451	1-571-305-11	SWITCH, PUSH (1 KEY)(POWER)
S1001	1-572-436-11	SWITCH, LEAF (LIMIT IN)
SW701	1-572-086-11	SWITCH, LEAF
SW702	1-572-086-11	SWITCH, LEAF
T101	▲.1-449-967-11	TRANSFORMER, POWER
X401	1-567-819-11	VIBRATOR, CERAMIC (4MHZ)
X801	1-577-686-11	VIBRATOR, CRYSTAL (45.1584MHZ)

ACCESSORY & PACKING MATERIAL

1-465-401-11	COMMANDER, REMOTE
1-558-271-11	CORD, CONNECTION
1-559-533-11	CORD, CONNECTION
3-751-495-51	MANUAL, INSTRUCTION (ENGLISH,FRENCH,SPANISH,PORTUGUESE)
3-751-495-61	MANUAL, INSTRUCTION (GERMAN,DUTCH,SWEDISH,ITALIAN)
4-925-788-01	COVER, BATTERY
*4-929-506-02	CUSHION
*4-933-232-01	INDIVIDUAL CARTON

Note:
The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

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