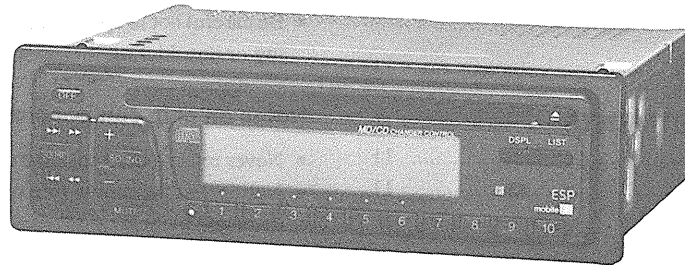


CDX-C710

SERVICE MANUAL

US Model



Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-333E-121
Optical Pick-Up Name	KSS-520A

SPECIFICATIONS

CD player section

System	Compact disc digital audio system
Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit
Laser Diode Properties	
Material	GaAlAs
Wavelength	780 nm
Emission Duration	Continuous
Laser output power	Less than 44.6 μ W*

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

Tuner section

FM	
Tuning range	87.5 – 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	62 dB (stereo), 65 dB (mono)
Harmonic distortion at 1 kHz	0.9 % (stereo), 0.5 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

AM

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	30 μ V

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	35 W $\times$ 4 (at 4 ohms)

General

Output lead	Power antenna relay control lead Power amplifier control lead
Tone controls	Bass $\pm$ 8 dB at 100 Hz Treble $\pm$ 8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 $\times$ 58 $\times$ 177 mm (7 $\frac{1}{2}$ $\times$ 2 $\frac{3}{8}$ $\times$ 7 in.) (w/h/d)
Mounting dimensions	Approx. 178 $\times$ 50 $\times$ 154 mm (7 $\frac{1}{8}$ $\times$ 2 $\times$ 6 $\frac{1}{8}$ in.) (w/h/d)
Mass	Approx. 1.5 kg (3 lb. 4.9 oz.)
Supplied accessories	Rotary remote (1) Parts for installation and connections (1 set) Front panel case (1)

Design and specifications are subject to change without notice.

FM/AM COMPACT DISC PLAYER
SONY



TABLE OF CONTENTS

1. GENERAL	
Location of Controls	3
Installation	4
Connections	5
2. DISASSEMBLY	7
3. TEST MODE	11
4. ELECTRICAL ADJUSTMENTS	
CD Section	11
Tuner Section	11
5. DIAGRAMS	
5-1. Printed Wiring Board – Display Section –	13
5-2. Schematic Diagram – Display Section –	15
5-3. Printed Wiring Board – Main Section –	17
5-4. Schematic Diagram – Main Section –	21
5-5. Schematic Diagram – Mechanism Deck Section –	27
5-6. Printed Wiring Boards – Mechanism Deck Section –	31
5-7. IC Pin Function Description	39
6. EXPLODED VIEWS	45
7. ELECTRICAL PARTS LIST	50

SERVICING NOTES

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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.

Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output Power: less than 44.6 μ W*

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

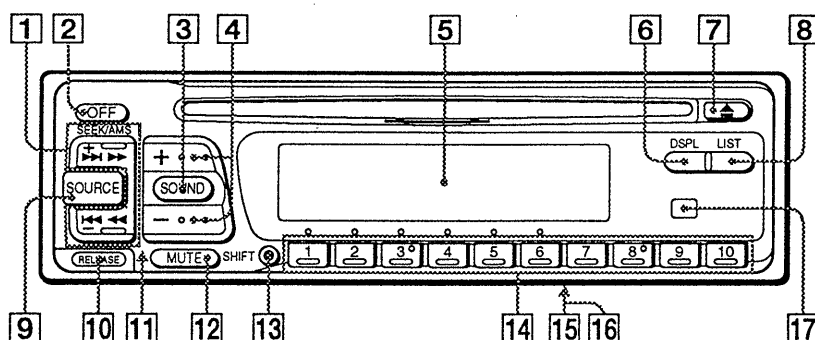
CAUTION

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

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.

Location of controls



Refer to the pages for details.

- 1 SEEK/AMS (seek/Automatic Music Sensor/manual search) button 5, 6, 7, 8, 9, 13, 15, 17, 22
- 2 OFF button 4, 5,
- 3 SOUND button 11, 18, 19, 20, 21
- 4 $\oplus$ $\ominus$ (volume/sub output level/bass/treble/balance/fader control) buttons 5, 9, 10, 11, 14, 18, 19, 20, 21
- 5 Display window
- 6 DSPL button (display mode change) button 5, 9, 10, 13, 14
- 7 $\triangle$ (eject) button 5
- 8 LIST button 9, 10, 14, 18, 19, 22, 23
Station Memo 9, 10
Disc Memo 14
DSP Custom File 18, 19
List-up 10, 14, 22, 23
- 9 SOURCE (source select) button 5, 8, 9, 12, 14, 16, 18, 20, 21, 22, 23
- 10 RELEASE (front panel release) button 4, 25
- 11 Reset button (located on the front side of the unit hidden by the front panel) 4
- 12 MUTE button 11
- 13 SHIFT button 5, 6, 7, 8, 9, 12, 13, 15, 16, 17, 19, 21, 22
BTM 8, 22
SET UP 5, 12, 21
PLAY MODE 6, 7, 8, 9, 12, 13, 15, 16, 17, 19
- 14 During radio/TV reception:
Number buttons 8, 9, 22
Direct disc selection button 13
- 15 POWER SELECT switch (located on the bottom of the unit)
See "POWER SELECT Switch" in the installation/Connections manual.
- 16 LINE-OUT/IN SELECT switch (located on the bottom of the unit)
See "LINE-OUT/IN SELECT Switch" in the Installation/Connections manual.
- 17 Receptor for the wireless remote

Installation

Precautions

- Do not tamper with the four holes on the upper surface of the unit. They are for tuner adjustments to be done only by service technicians.
- Choose the installation location carefully so that the unit will not hamper the driver during driving.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 2°.

How to Detach and Attach the Front Panel

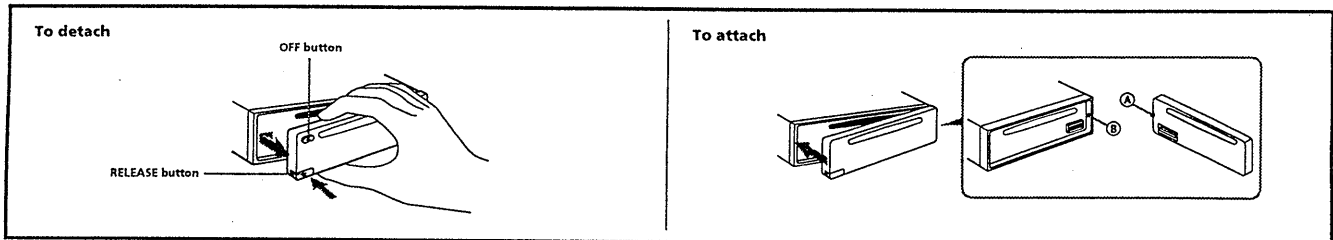
Before installing the unit, detach the front panel.

To detach

Before detaching the front panel, be sure to press the OFF button to turn the unit. Then press the RELEASE button, slide the front panel a little to the left, and pull it off toward you.

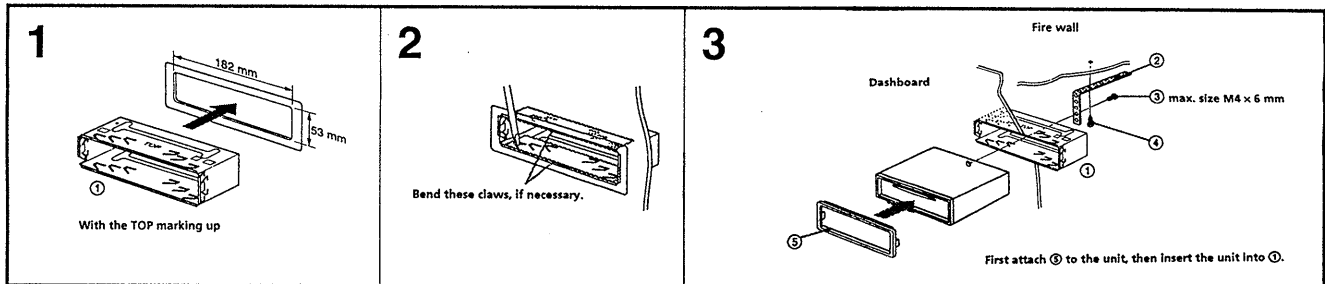
To attach

Align the parts ㉔ and ㉕, and push the front panel until it clicks.



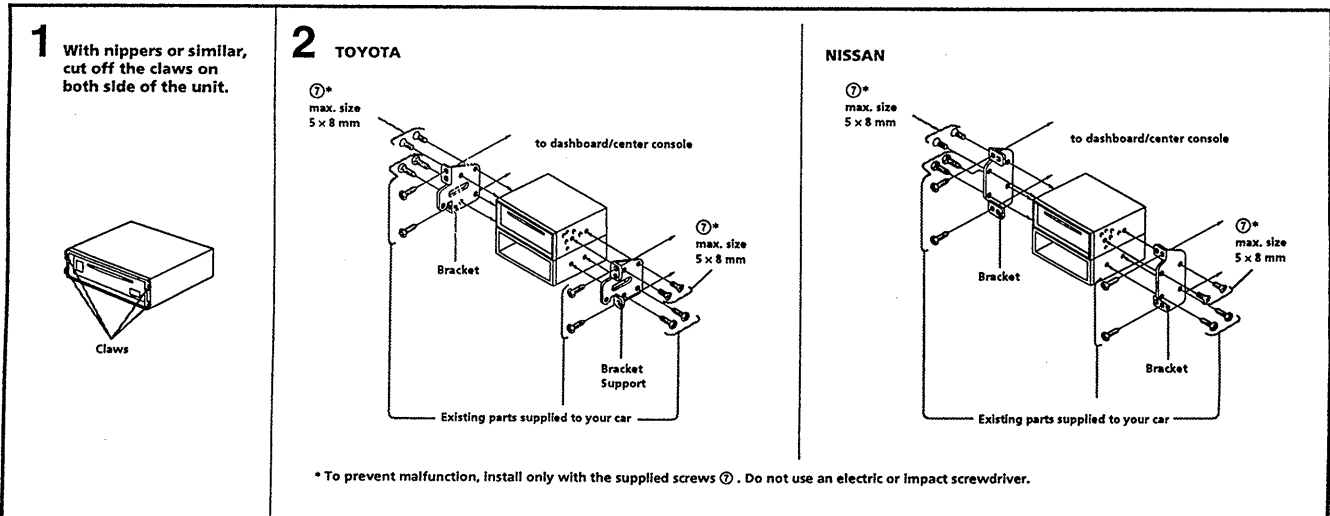
Mounting Example

Installation in the dashboard



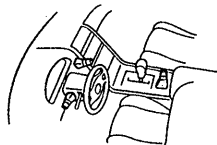
Mounting the Unit in a Japanese Car

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.



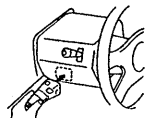
Installing the Rotary remote

Example of a mounting location

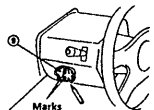


- Notes**
- Choose the mounting location carefully so that the rotary remote will not interfere with operating the car.
 - Do not install the rotary remote in a place where it may jeopardize the safety of the (front) passenger in any way.
 - When installing the rotary remote, be sure not to damage the electrical cables etc. on the other side of the mounting surface.
 - Avoid installing the rotary remote where it may be subject to high temperatures, such as from direct sunlight or hot air from the heater etc.

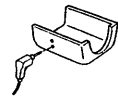
1 Choose the exact location for the rotary remote to be mounted, then clean the mounting surface.
Dirt or oil impair the adhesive strength of the double-sided adhesive tape.



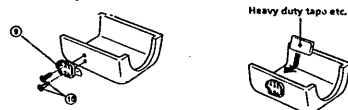
2 Mark two positions for the supplied screws.
Use the screw holes on the mounting hardware ⑥ to mark the positions.



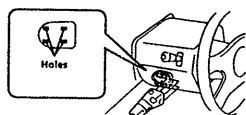
3 Remove the steering wheel column cover, and drill 2 mm diameter holes where you have marked.



4 Warm the mounting surface and the double-sided adhesive tape on the mounting hardware ⑥ to the temperature of 20°C to 30°C, and attach the mounting hardware onto the mounting surface by applying even pressure. Then screw it down with the supplied screws ⑧.
Attach a piece of heavy duty tape etc. on the other side of the mounting surface to cover the protruding tips of the screws so that they will not interfere with the electrical cables etc. inside the steering wheel column.



5 After installing the steering wheel column cover, attach the rotary remote to the mounting hardware by aligning the four holes on the bottom of the remote to the four catches on the mounting hardware and sliding the rotary remote until it locks into place as illustrated.

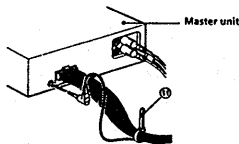


Note
If you are mounting the rotary remote to the steering wheel column, make sure that the protruding tips of the screws on the inner surface of the column do not in any way hinder or interfere with the movement of the rotating shaft, operative parts of the switches or the electrical cables etc. inside the column.

Connection

Connect the plug of the rotary remote to the rotary remote input jack for the rotary remote of car audio equipment.

After connecting, bundle up the connecting cord of the rotary remote with other connecting cords of the audio equipment by attaching the supplied crammer ⑩. Be sure to leave some slack in the connecting cord between the plug and the crammer as illustrated.



Connections

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the yellow and red power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- Run all ground wires to a common ground point.
- The use of optional instruments with this product will increase eye hazard.

If Your Car has No Accessory Position on the Ignition Key Switch — POWER SELECT Switch

The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear if your car has no accessory position on the ignition key switch. To avoid this battery wear, set the POWER SELECT switch located on the bottom of the unit to the ② position, then press the reset button. The illumination is reset to stay off while the unit is not being played.

Note
The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the ② position.

When a Equalizer or DSP (Digital Signal Processor) etc. is Connected — LINE OUT/IN SELECT Switch

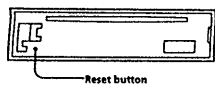
Set the LINE OUT/IN SELECT switch, which is on the underside of the unit, to position ②, so that the LINE OUT/LINE IN (EQ IN) terminal will function as LINE IN (EQ IN) terminal.

Change the position with a jeweler's screwdriver, etc.



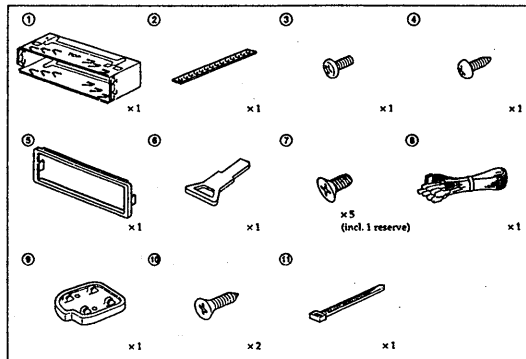
Reset Button

When the installation and connections are over, be sure to press the reset button with a ball-point pen etc.



Parts for Installation and Connections

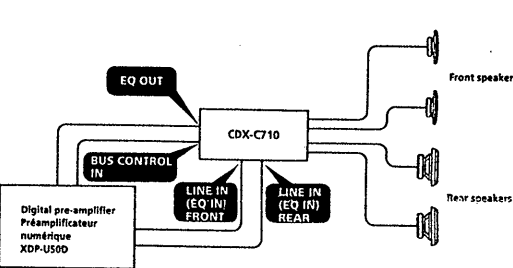
The numbers in the list are keyed to those in the instructions.



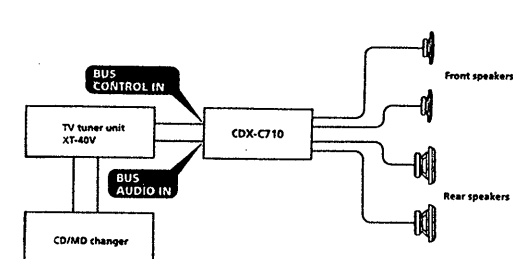
The release key ⑪ is used for dismantling the unit. See the operating instructions manual for details.

Connection Diagram

Example 1 Set the LINE OUT/IN SELECT switch to position ②

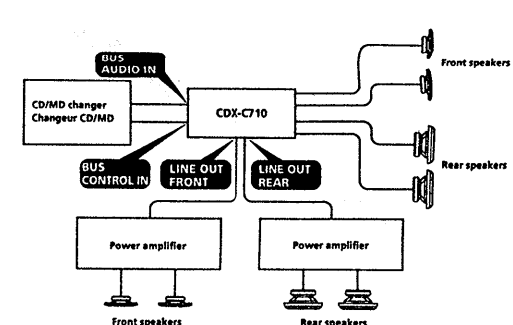


Example 2 Set the LINE OUT/IN SELECT switch to position ①

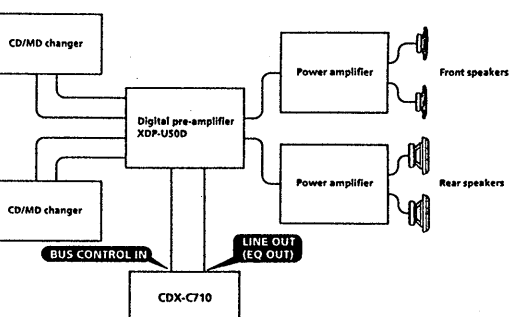


For connecting two or more changers, the source selector XA-U20 (optional) and the BUS cable RC-61 (1 m) or RC-62 (2 m) (optional) are necessary.

Example 3 Set the LINE OUT/IN SELECT switch to position ③

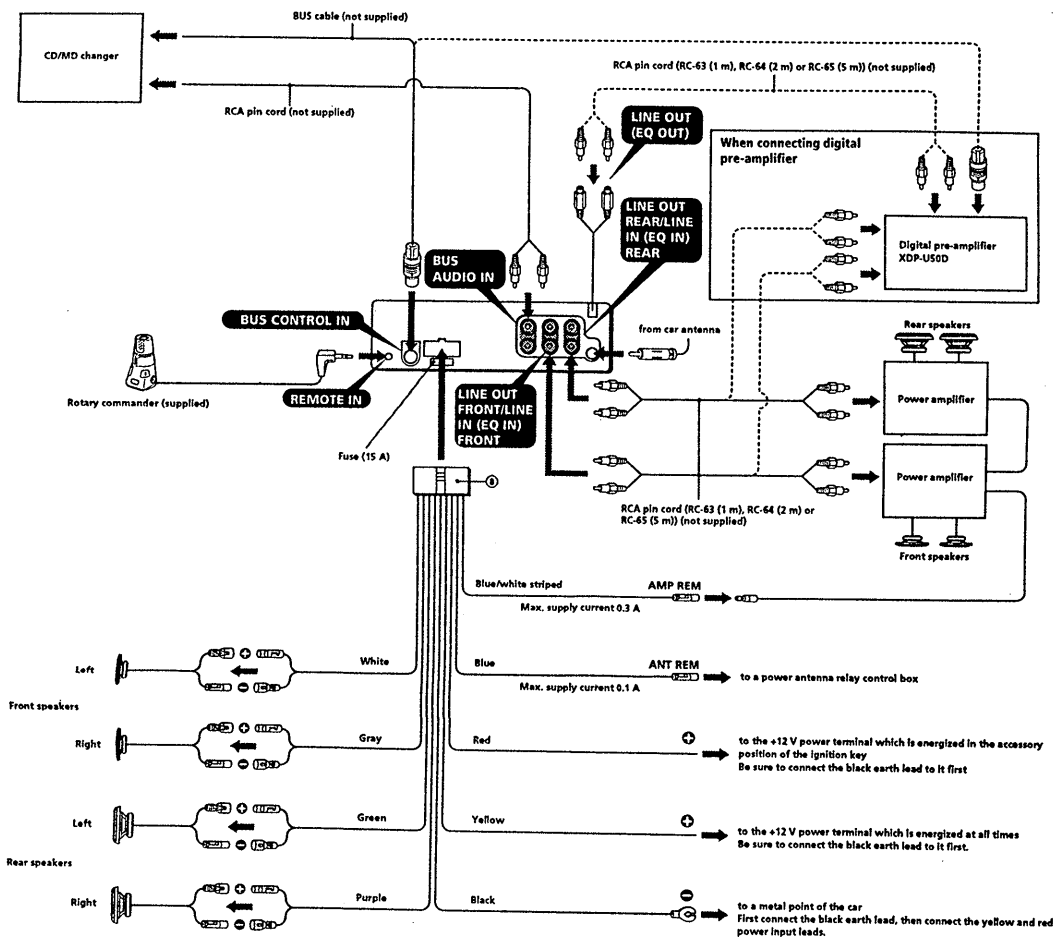


Example 4 Set the LINE OUT/IN SELECT switch to position ②



For details about the connection, refer to the operating instructions of XDP-U50D (not supplied).

Connections of Example



Notes on the control leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.
- A power antenna without relay box cannot be used with this unit.

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

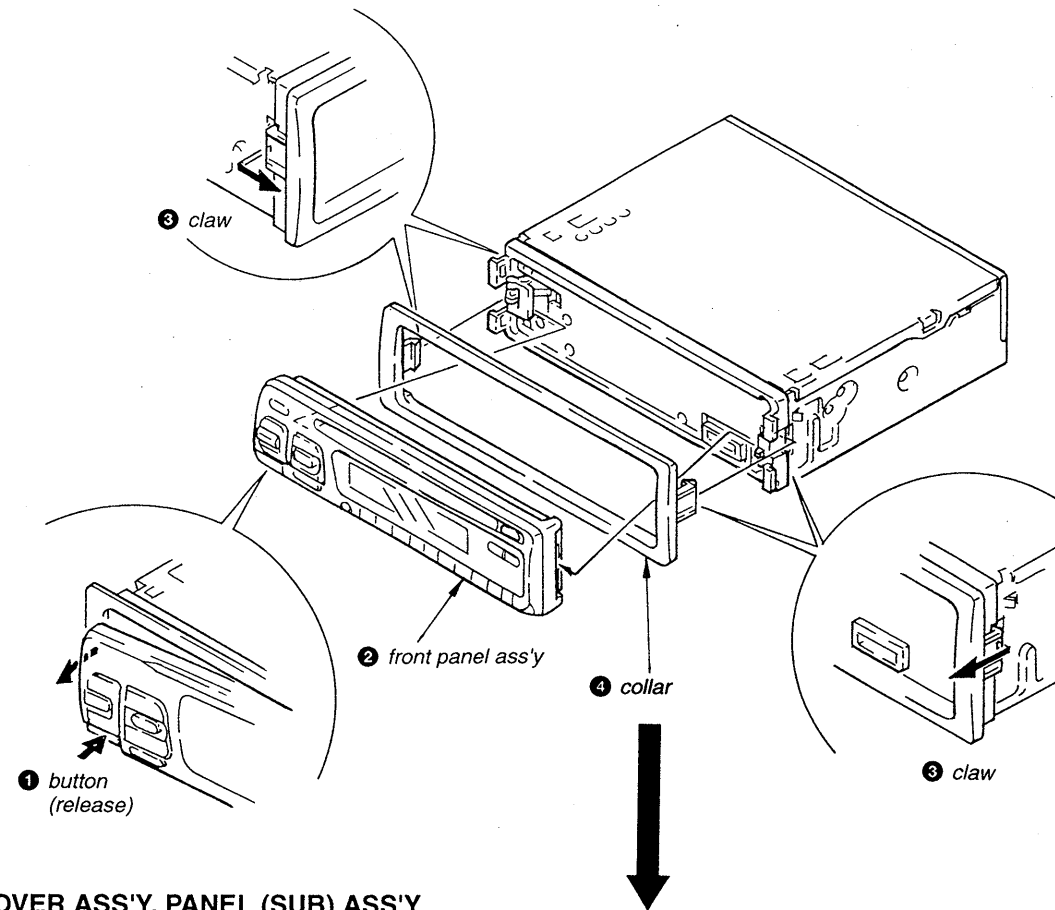
Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.

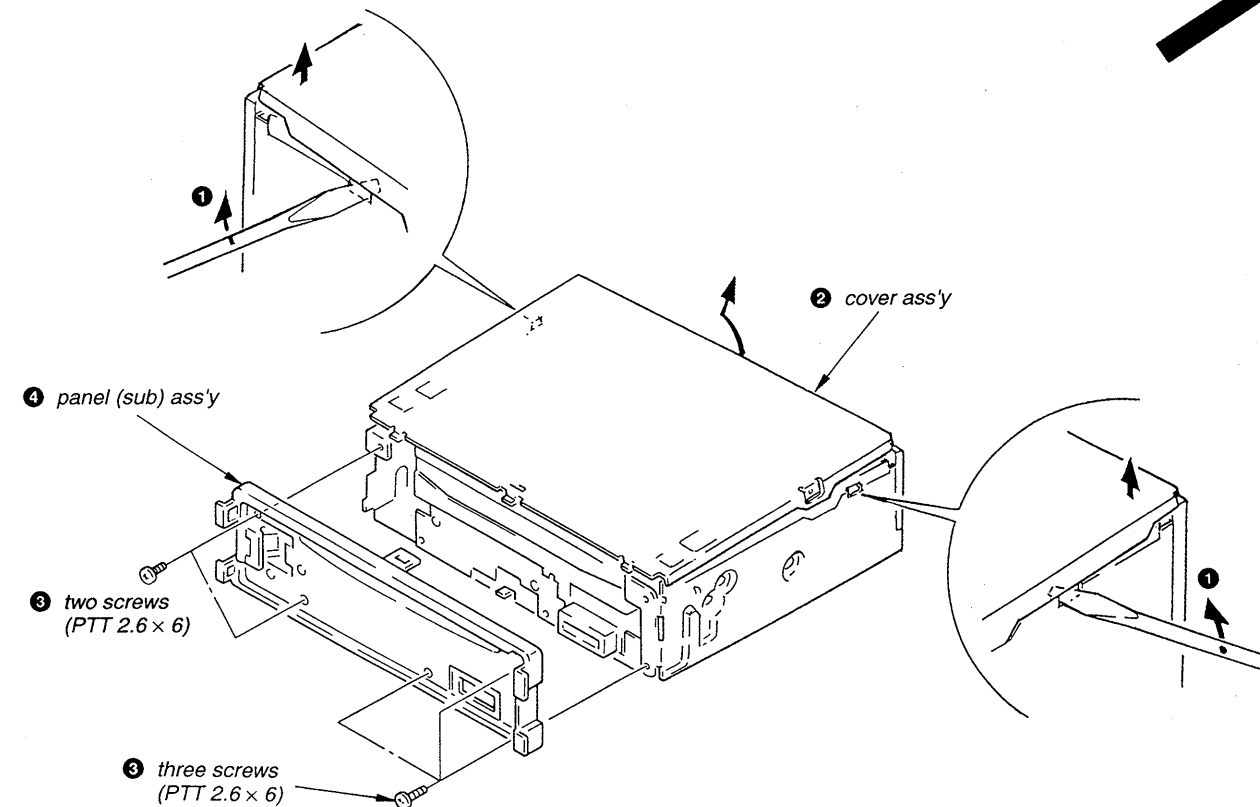
SECTION 2 DISASSEMBLY

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

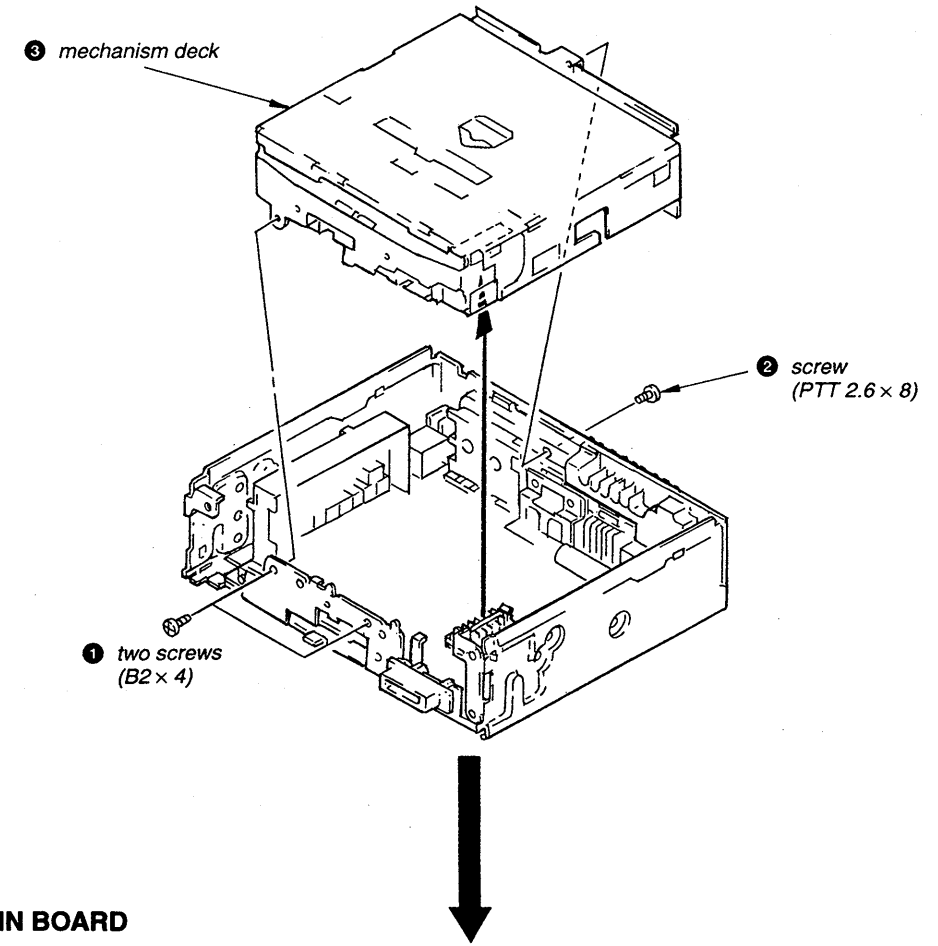
FRONT PANEL ASS'Y



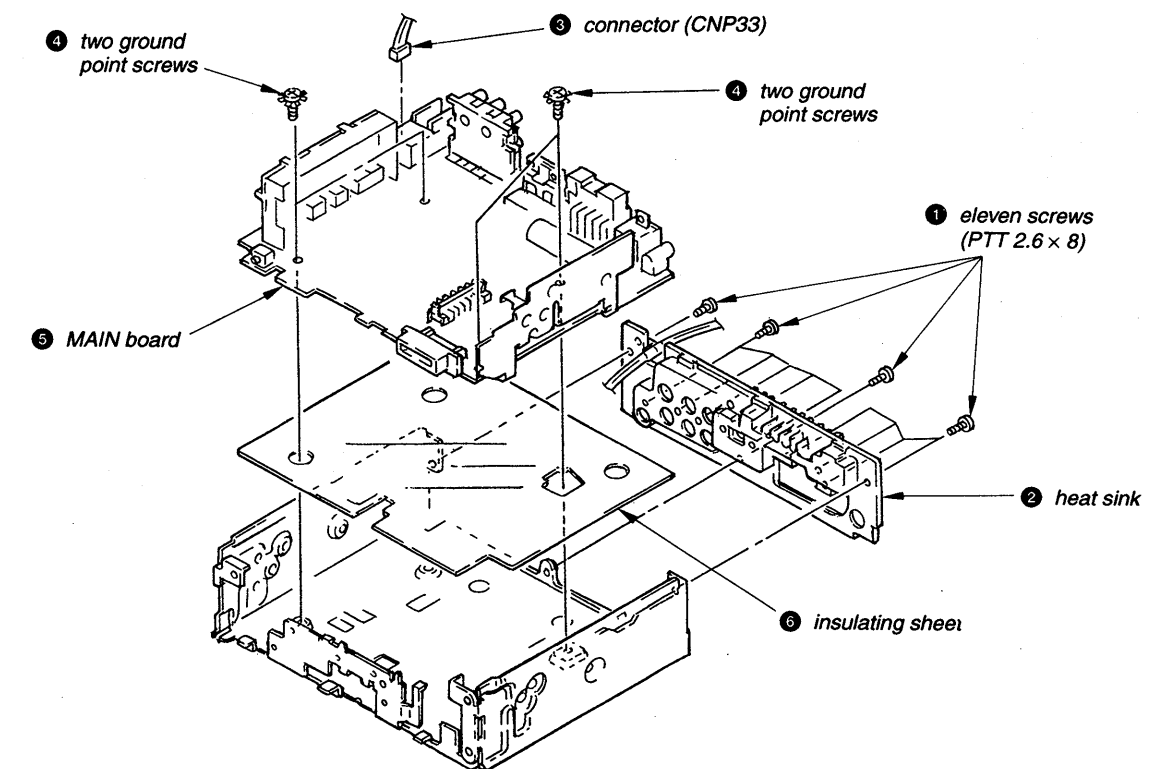
COVER ASS'Y, PANEL (SUB) ASS'Y



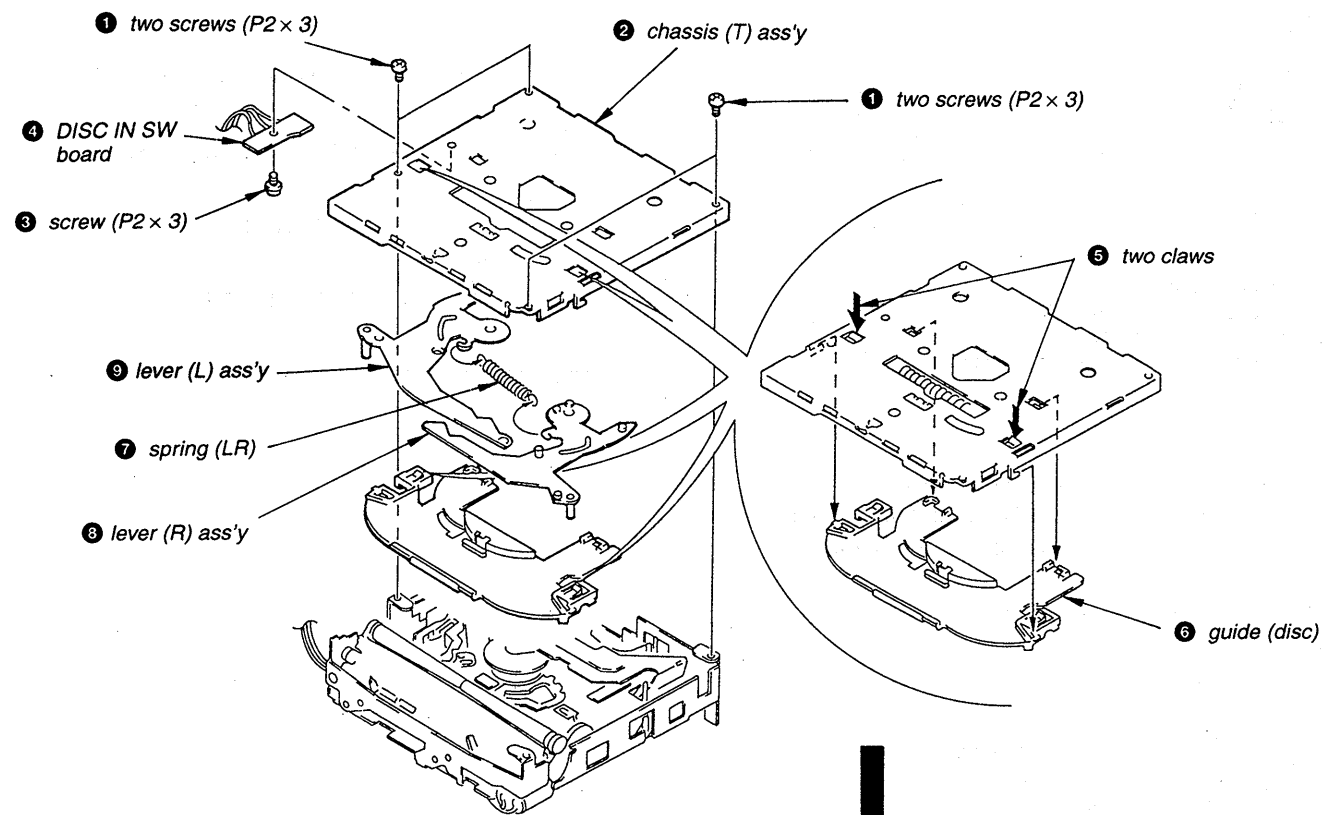
MECHANISM DECK



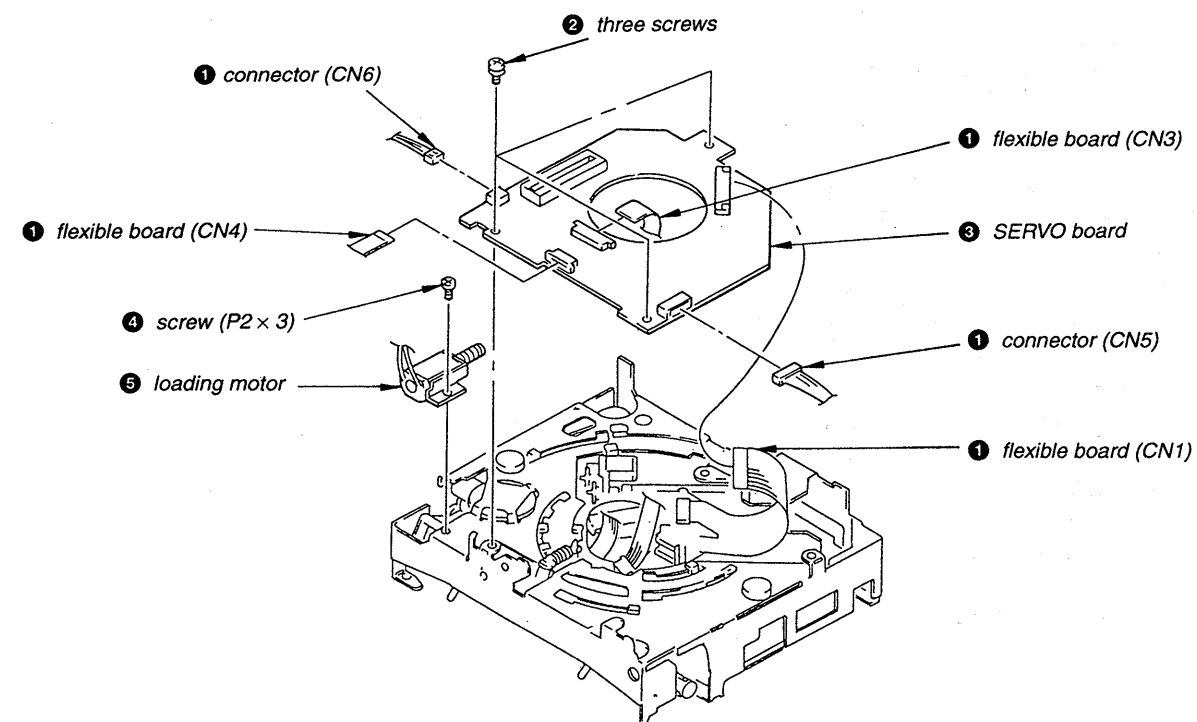
MAIN BOARD



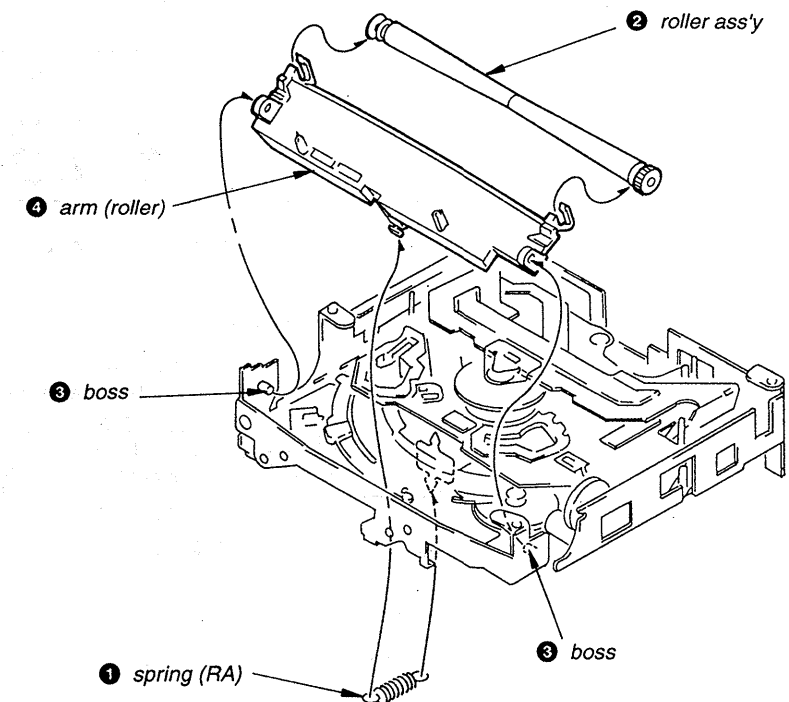
CHASSIS (T) ASS'Y



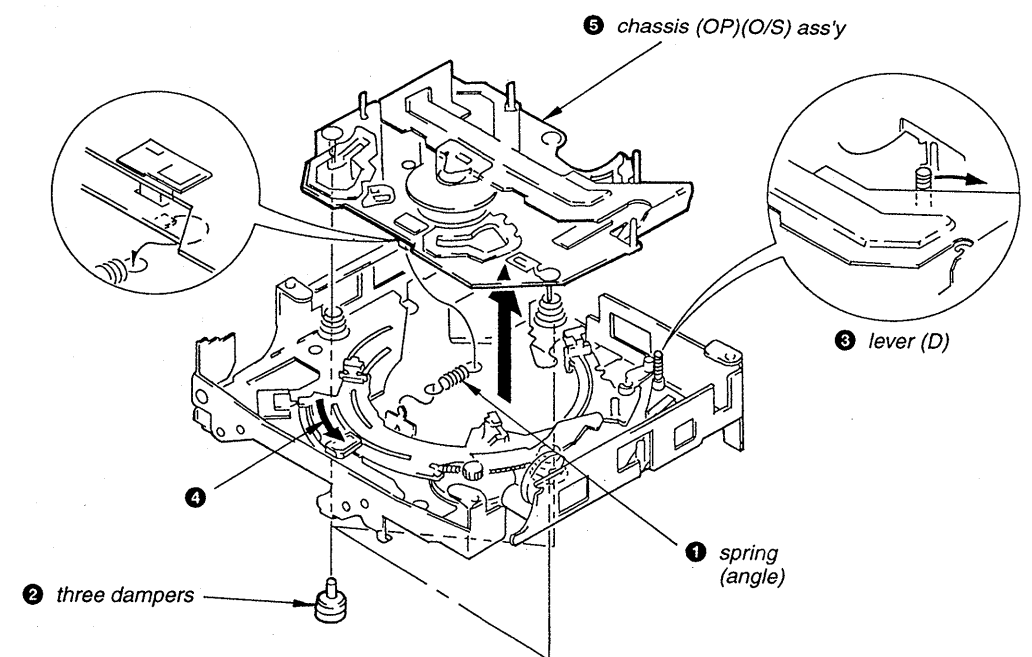
SERVO BOARD, LOADING MOTOR



ROLLER ASS'Y, ARM (ROLLER)



CHASSIS (OP)(O/S) ASS'Y



SECTION 3

TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and AM Auto Scan/Stop Level adjustments can be performed easier than it in ordinary procedure.

Set the Test Mode

1. Set the "OFF" mode.
2. Push the preset **[4]** button.
3. Push the preset **[5]** button.
4. Press the preset **[1]** button for two seconds.
5. Then the display indicates all lights, the test mode is set.

Release the Test Mode

1. Push the "OFF" button.

SECTION 4

ELECTRICAL ADJUSTMENTS

CD SECTION

CD section adjustments are done automatically in this set.

TUNER SECTION

0dB=1μV

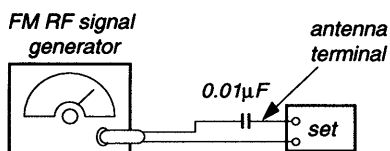
Cautions during repair

When the front end is defective, replace it by a new one because its internal block is difficult to repair.

FM Auto Scan/Stop Level Adjustment

Setting:

SOURCE button: FM

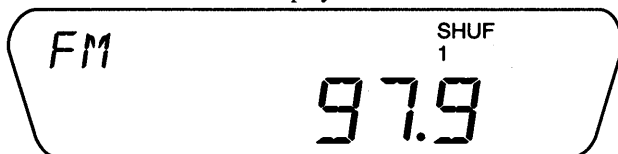


Carrier frequency : 97.9MHz
Output level : 22dB(12.6μV)
Mode : mono
Modulation : 1kHz, 75kHz deviation

Procedure:

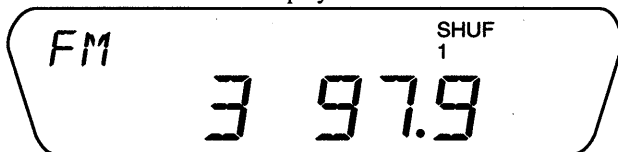
1. Set to the test mode.
2. Push the **[SOURCE]** button and set to FM.

Display



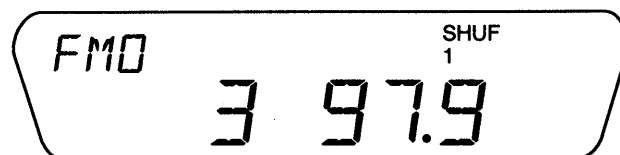
3. Push the preset **[3]** button.

Display



4. Adjust with the volume RV2 on TU1 so that the "FM" indication turns to "FM0" indication on the display window. But, in case of already indicated "FM0", turn the RV2 so that put out light "0" indication and adjustment.

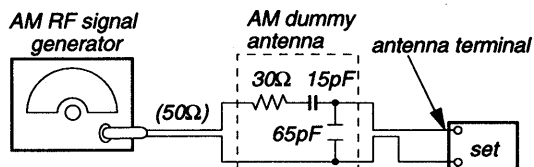
Display



AM Auto Scan/Stop Level Adjustment

Setting:

SOURCE button: AM



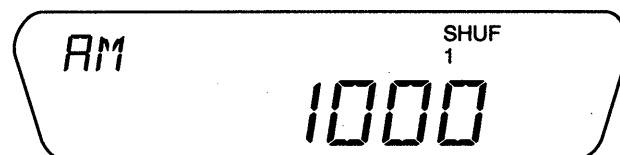
Carrier frequency : 1000kHz

30% amplitude
modulation by
400Hz signal
Output level : 35dB (56.2μV)

Procedure:

1. Set to the test mode.
2. Push the **[SOURCE]** button and set to AM.

Display



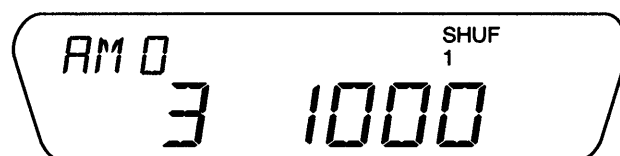
3. Push the preset **[3]** button.

Display



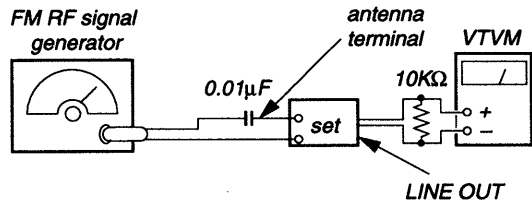
4. Adjust with the volume RV1 on TU1 so that the "AM" indication turns to "AM0" indication on the display window. But, in case of already indicated "AM0", turn the RV1 so that put out light "0" indication and adjustment.

Display



FM Noise Focus Adjustment

Setting:
SOURCE button: FM



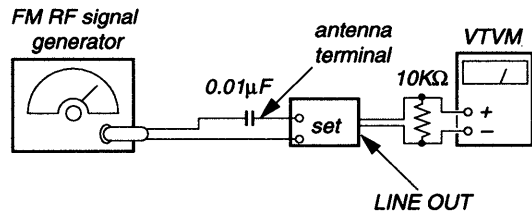
Carrier frequency : 97.9MHz
Output level : 60dB(1mV)
Mode : mono
Modulation : 1kHz, 75kHz deviation

Procedure:

1. Tune the 97.9 MHz .
2. The then output level is supposing that (B) dB.
3. Adjust with the volume RV3 on TU1 so that the output level is (B) -30dB then signal generator input set to -20dB.

FM Stereo Separation Adjustment

Setting:
SOURCE button: FM



Carrier frequency : 97.9MHz
Output level : 60dB(1mV)
Mode : stereo
Modulation : main: 1kHz, 75kHz deviation (100%)
19kHz pilot: 7.5kHz deviation (10%)

Procedure:

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV4 on TU1 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV4 on TU1 for minimum reading.

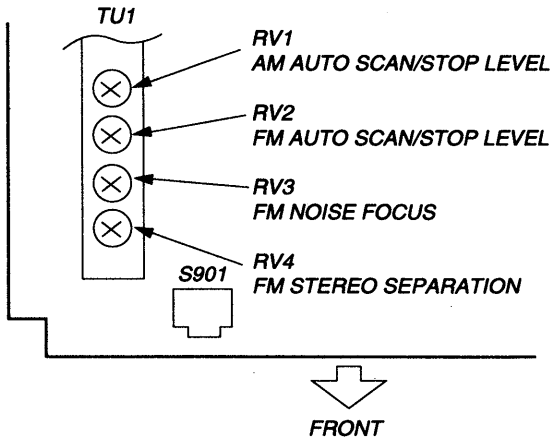
L-CH Stereo separation: Ⓐ-Ⓑ

R-CH Stereo separation: Ⓒ-Ⓓ

The separation of both channels should be equal.

Specification: Separation more than 28dB

Adjustment Location:

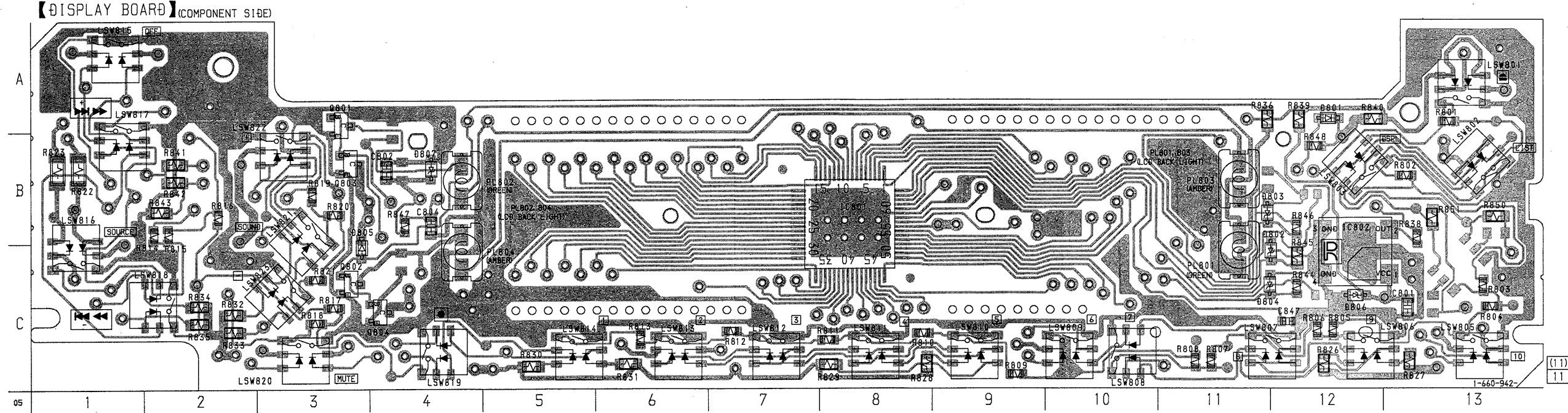


SECTION 5
DIAGRAMS

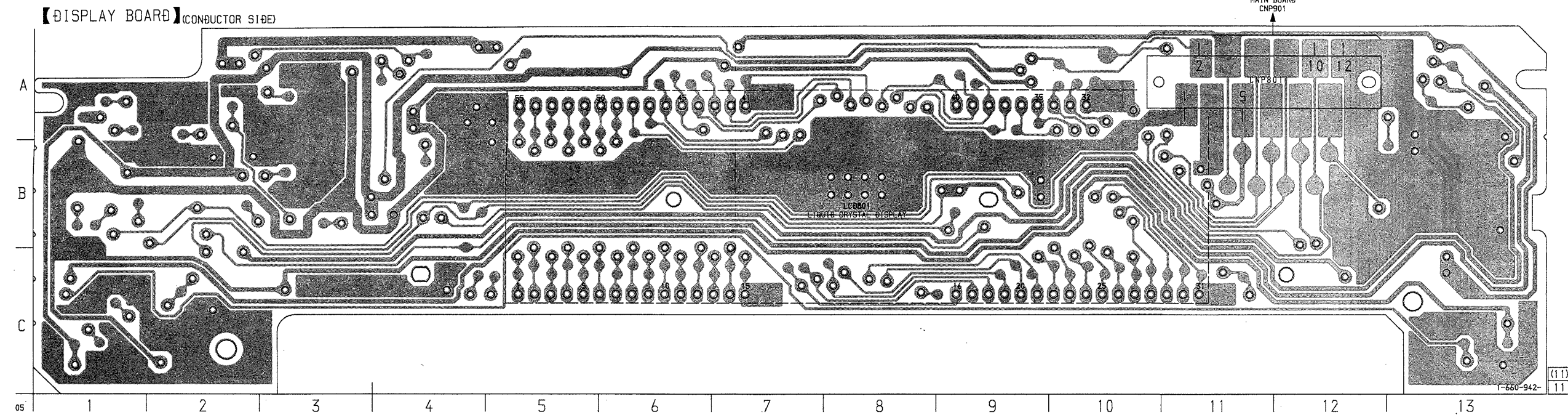
5-1. PRINTED WIRING BOARD – DISPLAY Section – • See page 17 for Circuit Boards Location.

• Semiconductor
Location

Ref. No.	Location
D801	A-12
D802	B-11
D803	B-11
D804	C-11
D805	C-3
D806	C-12
D807	B-4
IC801	B-8
IC802	B-12
Q801	A-3
Q802	C-3
Q803	B-3
Q804	C-4



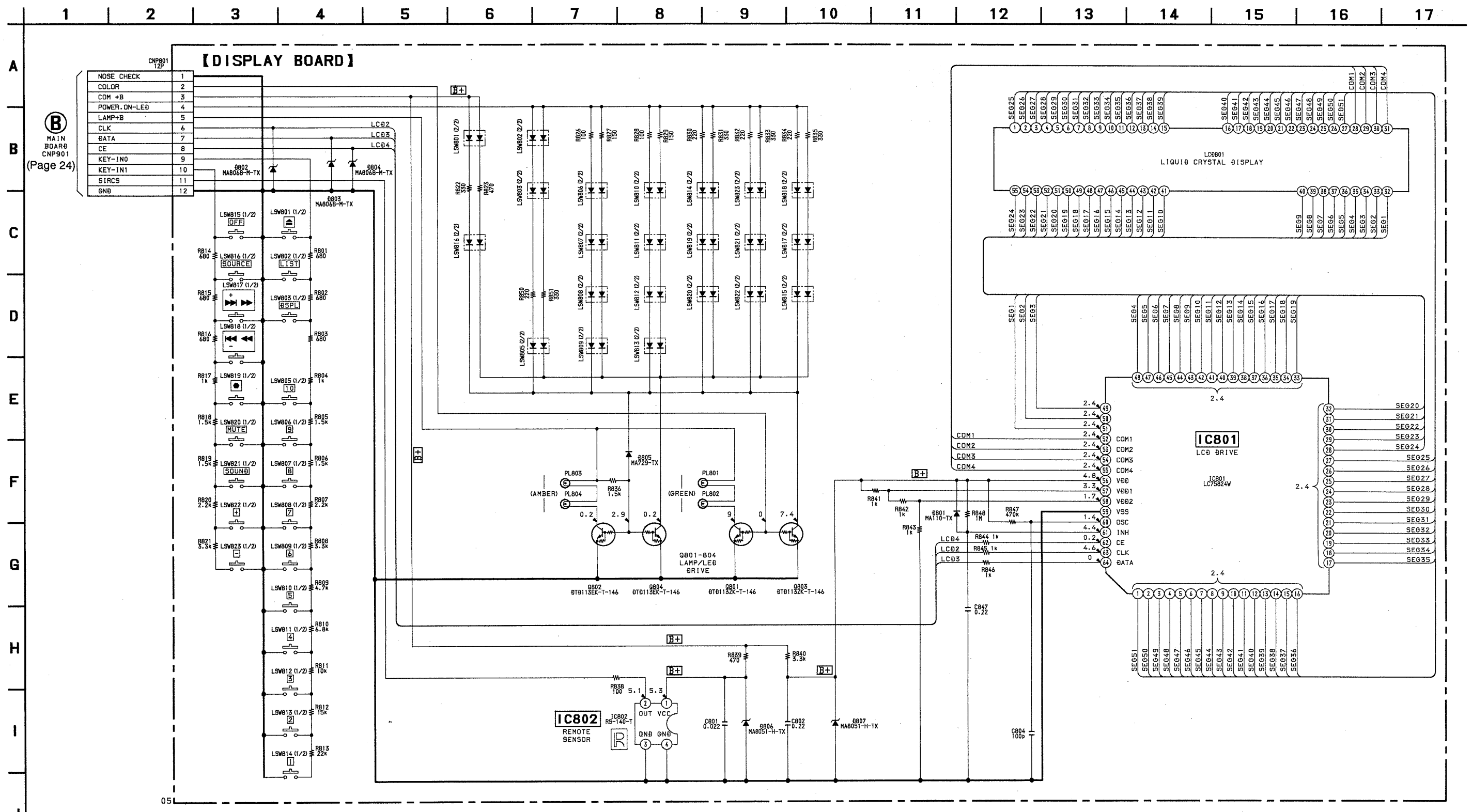
(Page 19)



Note:
• : parts extracted from the component side.
• : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Caution:
Pattern face side: Parts on the pattern face side seen from (Conductor side) the pattern face are indicated.
Parts face side: Parts on the parts face side seen from (Component side) the parts face are indicated.

5-2. SCHEMATIC DIAGRAM – DISPLAY Section –

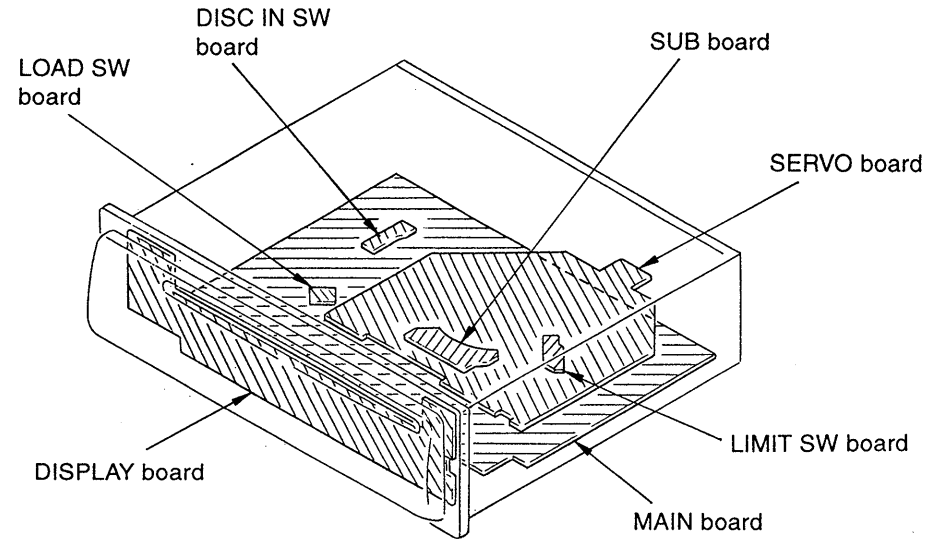


Note:
• All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics and tantalums.
• All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
• [B+] : B+ Line.
• [] : panel designation.

• Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no-mark : FM
• Voltages are taken with a VOM (10 M Ω /V).
Voltage variations may be noted due to normal production tolerances.

SEE ADDITIONAL
INFORMATION

• Circuit Boards Location



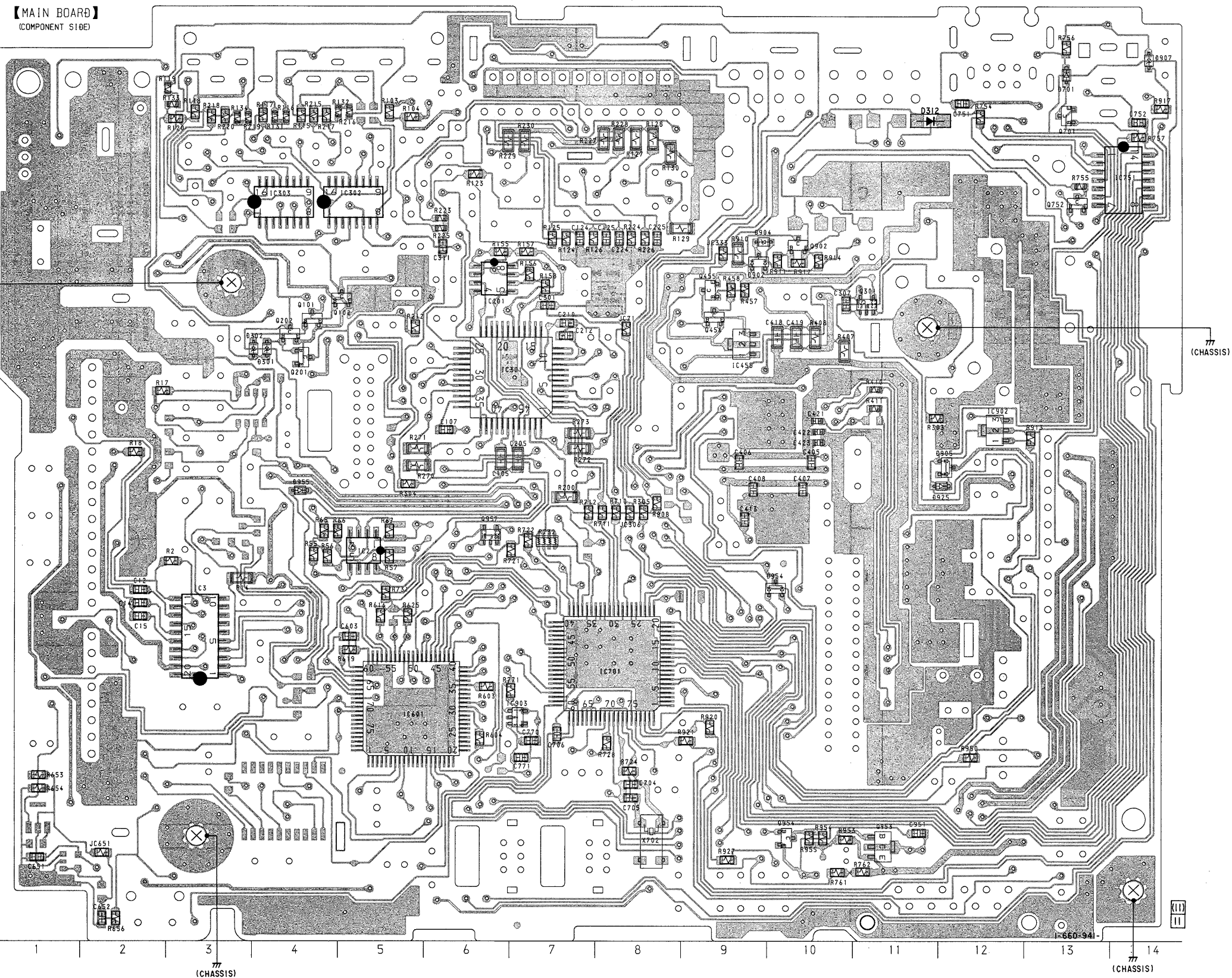
5-3. PRINTED WIRING BOARD - MAIN Section -

• Semiconductor Location

Ref. No.	Location
D1	F-13
D3	D-11
D4	C-14
D5	D-12
D310	C-3
D312	B-11
D451	H-3
D452	I-4
D601	G-9
D751	I-8
D752	B-3
D753	B-2
D754	B-3
D755	B-2
D760	H-6
D901	K-5
D906	A-1
D908	J-2
D909	K-2
D910	J-2
D911	K-5
D912	K-6
D914	K-6
D915	K-6
D916	I-6
D920	G-2
D921	G-1
D922	F-2
D951	I-6
D952	J-2
IC202	E-8
IC302	C-5
IC303	C-4
IC304	A-8
IC401	F-5
IC402	D-5
IC901	G-2
Q3	E-13
Q451	I-4
Q453	H-3
Q454	H-2
Q556	F-11
Q557	E-11
Q751	J-8
Q760	H-6
Q761	K-4
Q900	D-1
Q951	I-2
Q952	I-3

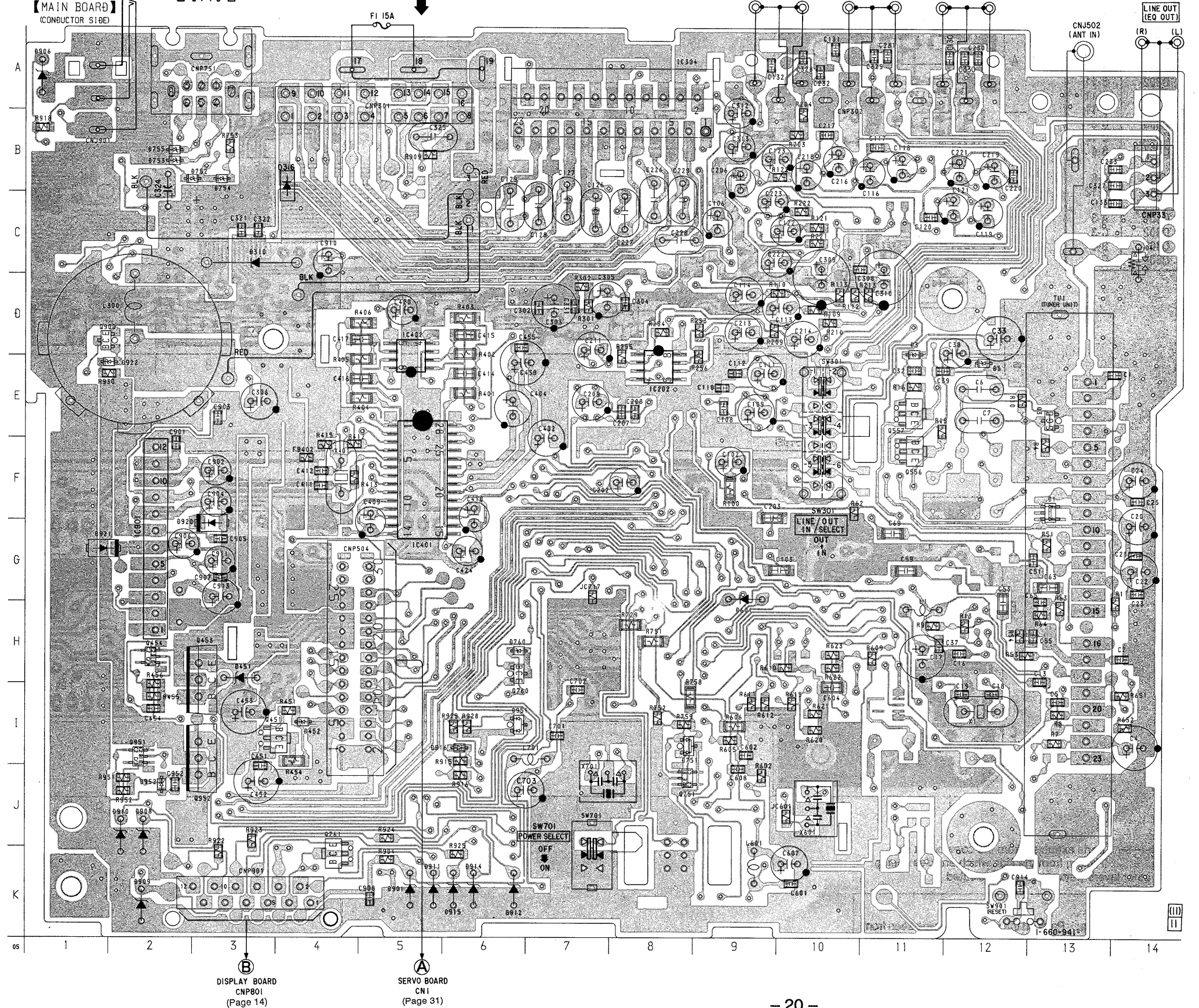
Note:
• : parts extracted from the component side.
• : internal component.
• : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Caution:
Pattern face side: Parts on the pattern face side seen from (Conductor side) the pattern face are indicated.
Parts face side: Parts on the parts face side seen from (Component side) the parts face are indicated.



• Semiconductor Location

Ref. No.	Location
D301	E-4
D316	E-4
D316	B-4
D701	A-13
D902	D-9
D904	C-9
D905	F-12
D907	A-14
D925	F-12
D954	G-10
D955	F-4
IC2	G-5
IC3	H-3
IC201	D-6
IC301	E-7
IC455	E-9
IC601	I-5
IC651	K-1
IC701	H-8
IC751	C-14
IC902	F-12
IC903	I-7
Q101	D-4
Q102	D-4
Q201	E-4
Q202	D-4
Q301	D-11
Q455	D-9
Q456	D-9
Q701	B-13
Q752	C-13
Q902	C-10
Q953	J-11
Q954	J-10
Q957	G-6



• Waveforms

● IC401 ⑧

11-DEC-95 19:37

5Vp-p

16.9344 MHz

● IC3 ①

11-DEC-95 19:33

3.2Vp-p

7.2 MHz

● IC601 ⑧

11-DEC-95 19:35

3.4Vp-p

8MHz

● IC701⑧

11-DEC-95 19:36

3Vp-p

5MHz

● IC701 ⑧

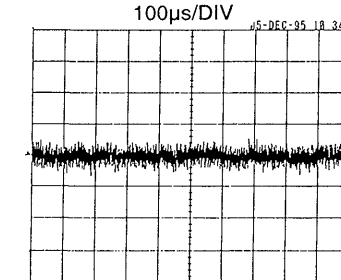
11-DEC-95 19:38

1.6Vp-p

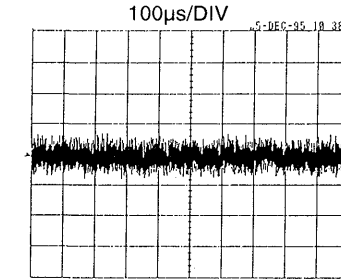
32.768 KHz

- Waveforms

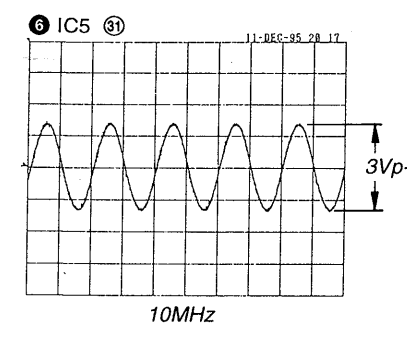
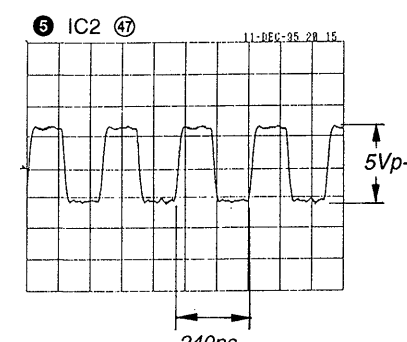
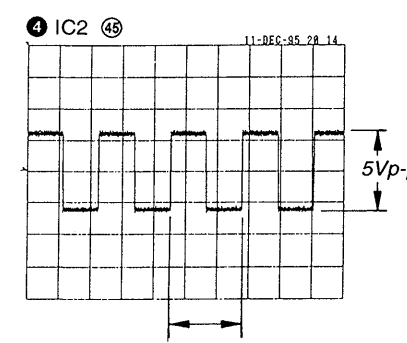
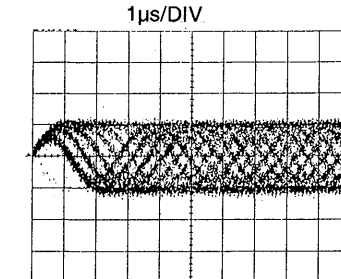
① IC1 ⑭ 200mV/DIV



② IC1 ①6 200mV/DIV



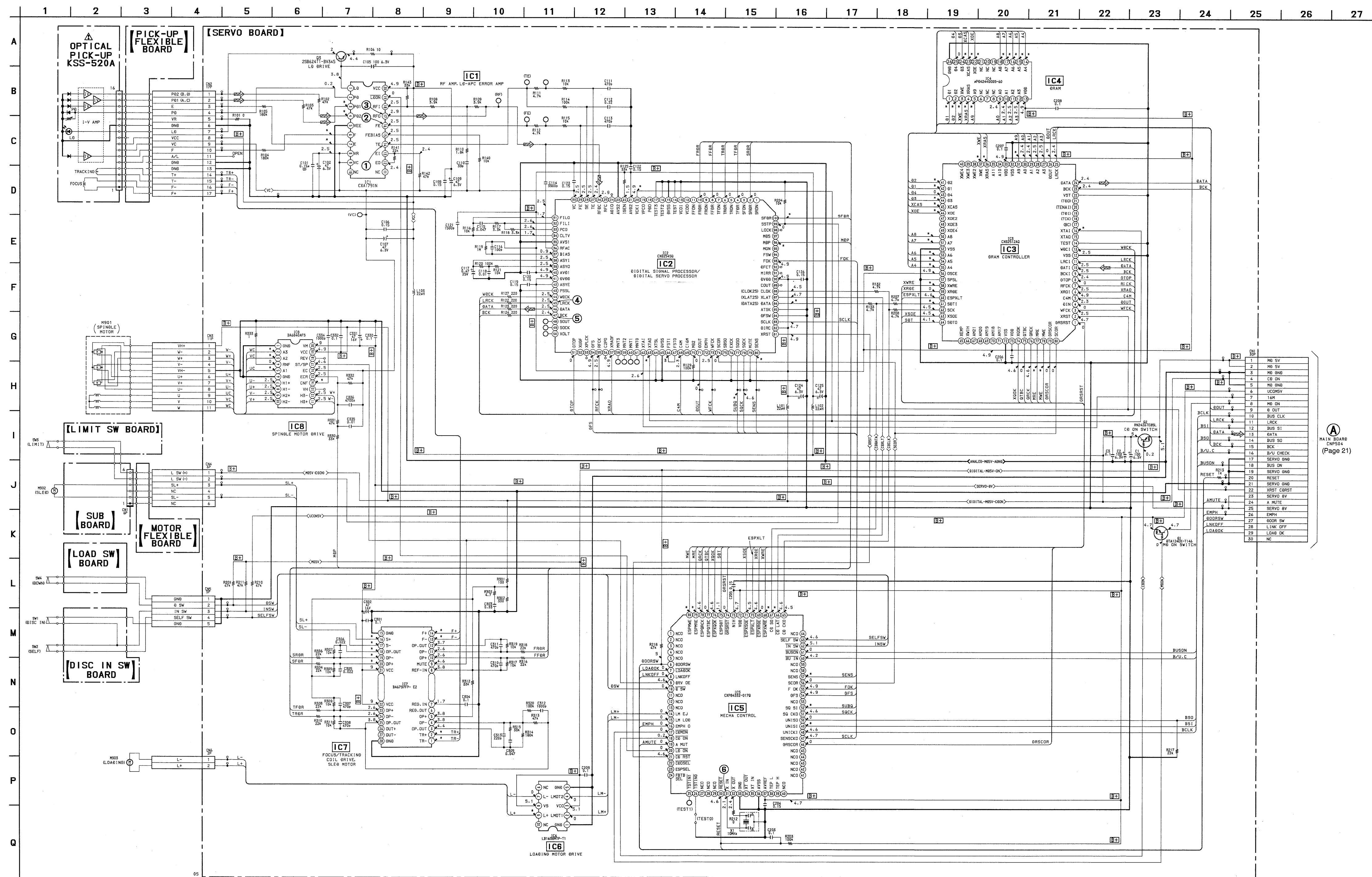
③ IC1 ⑪ 500mV/DIV



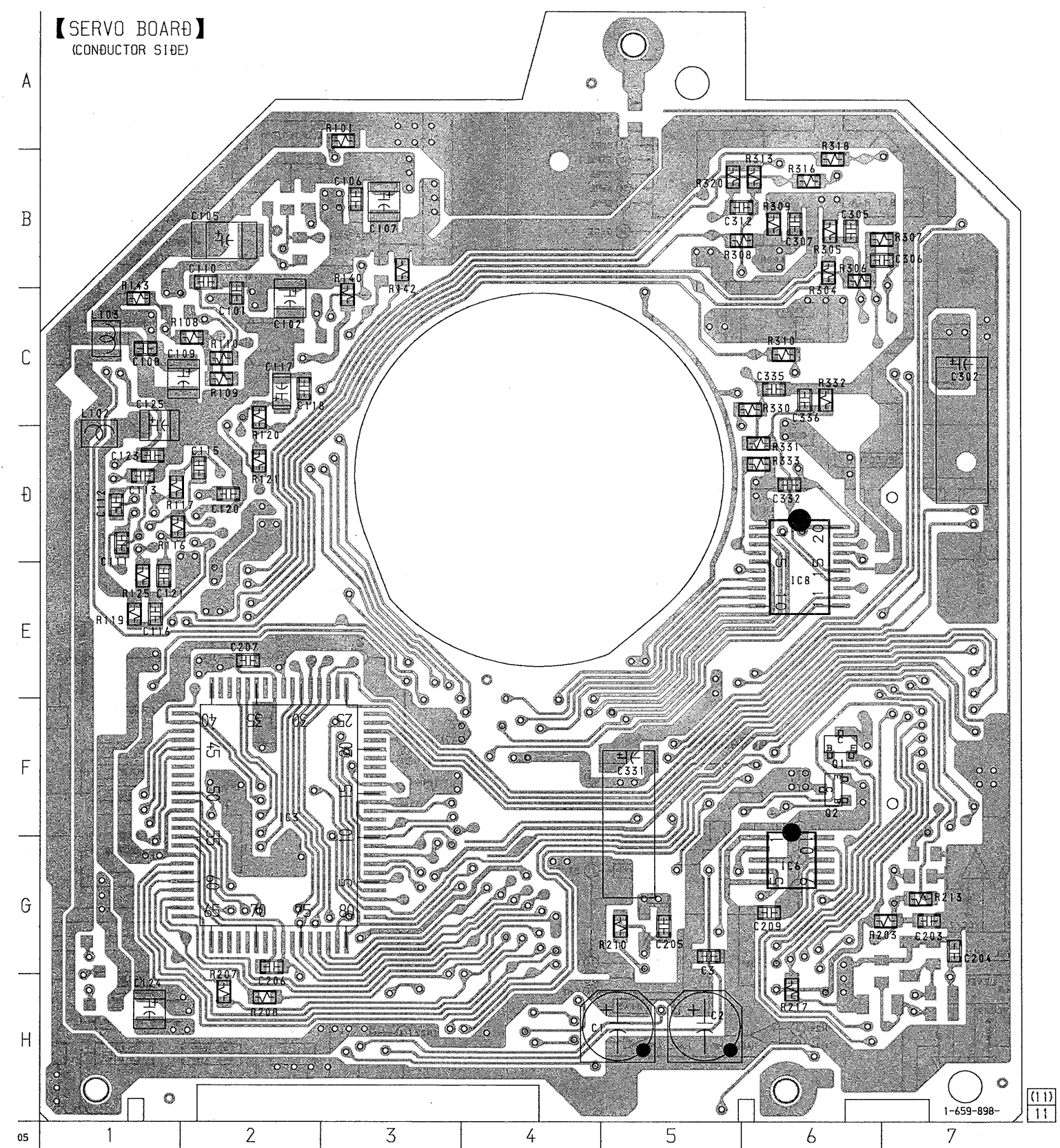
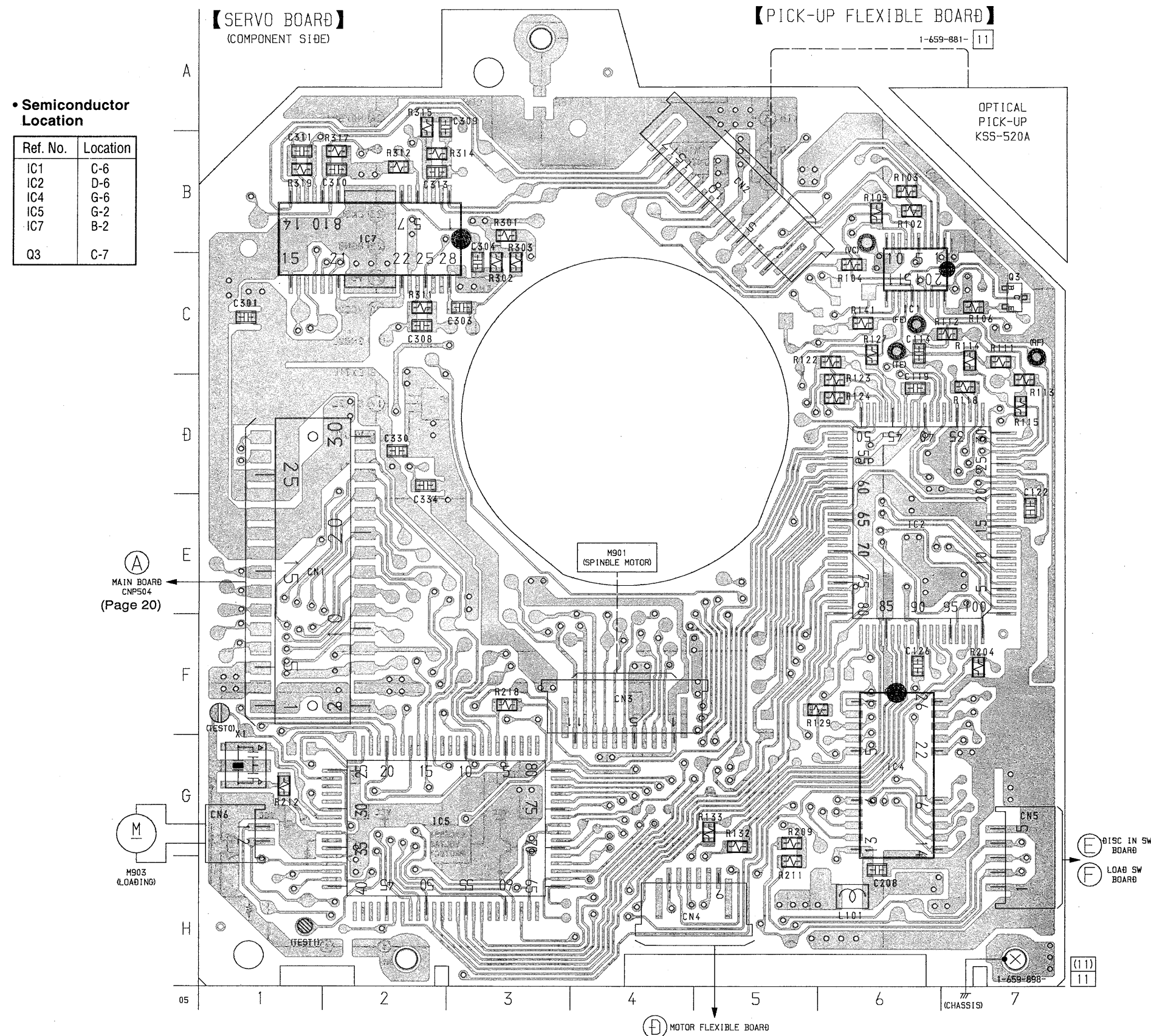
- Note:**
- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 - Δ : internal component.

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

- **B** : B+ Line.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltages and waveforms are dc with respect to ground under no signal conditions.
no-mark : CD
- **I** : Impossible to measure
- Voltages are taken with a VOM (10 MQ/V).
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
-  : CD.



5-6. PRINTED WIRING BOARDS – MECHANISM DECK Section – • See page 17 for Circuit Boards Location



Ref. No.	Location
IC3	F-2
IC6	G-6
IC8	D-6
Q1	F-6
Q2	F-6

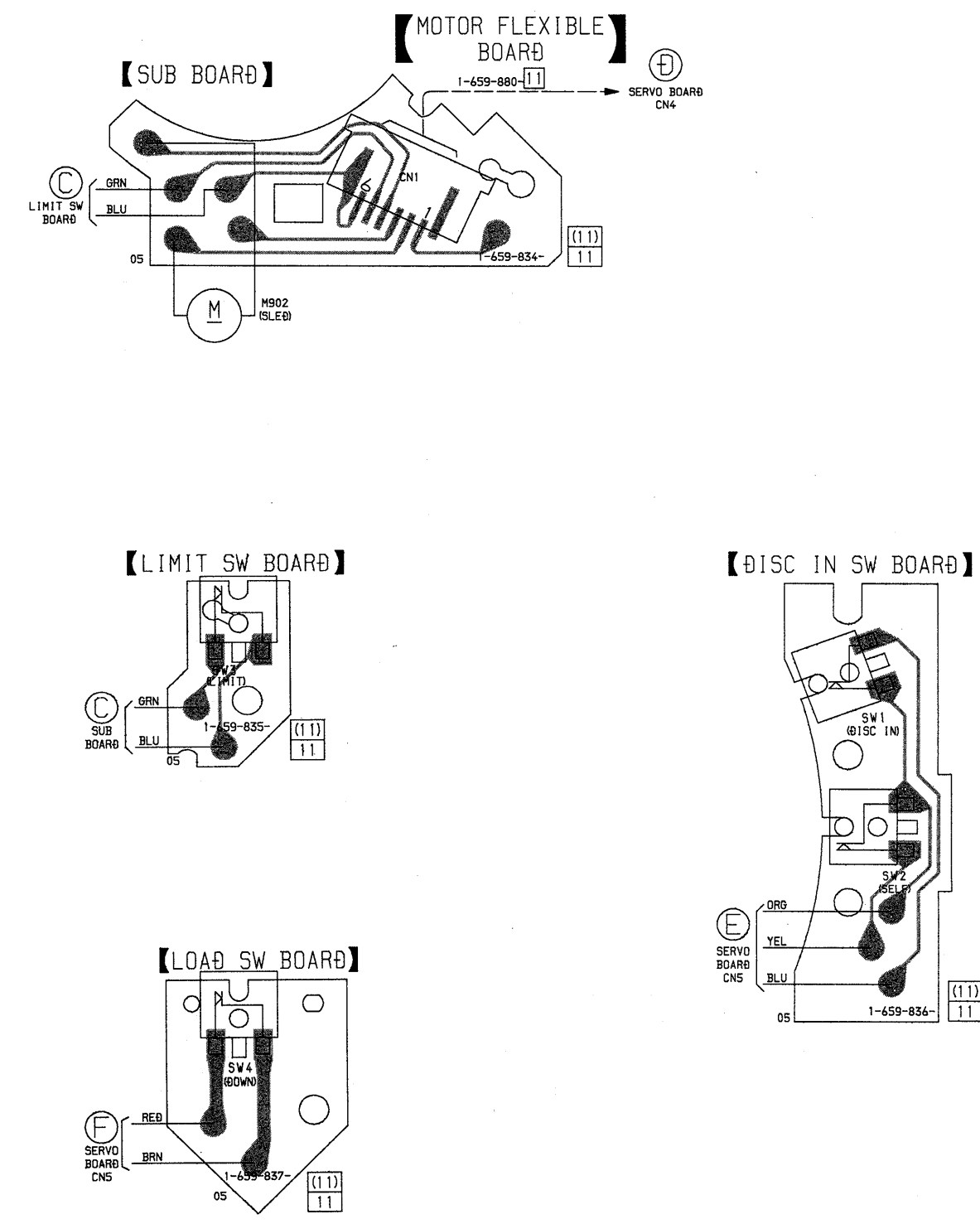
Note:

-  : parts extracted from the conductor side.
-  : internal component.
-  : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

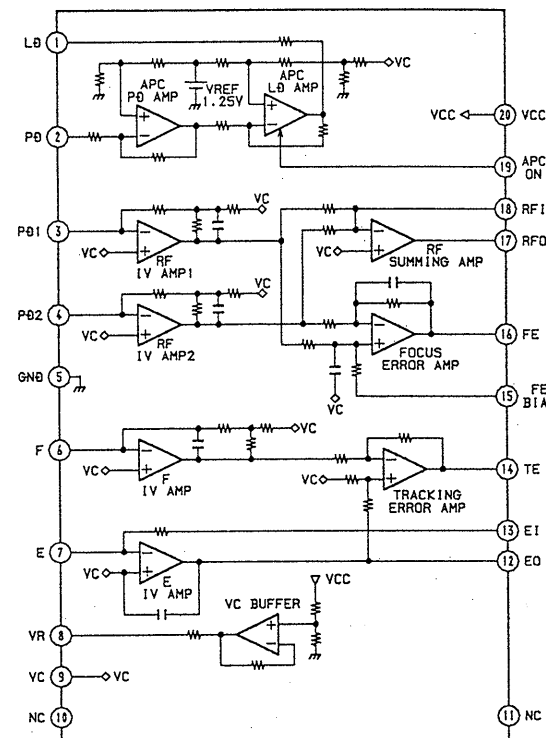
Caution:

Pattern face side: (Conductor side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component side)	Parts on the parts face side seen from the parts face are indicated.

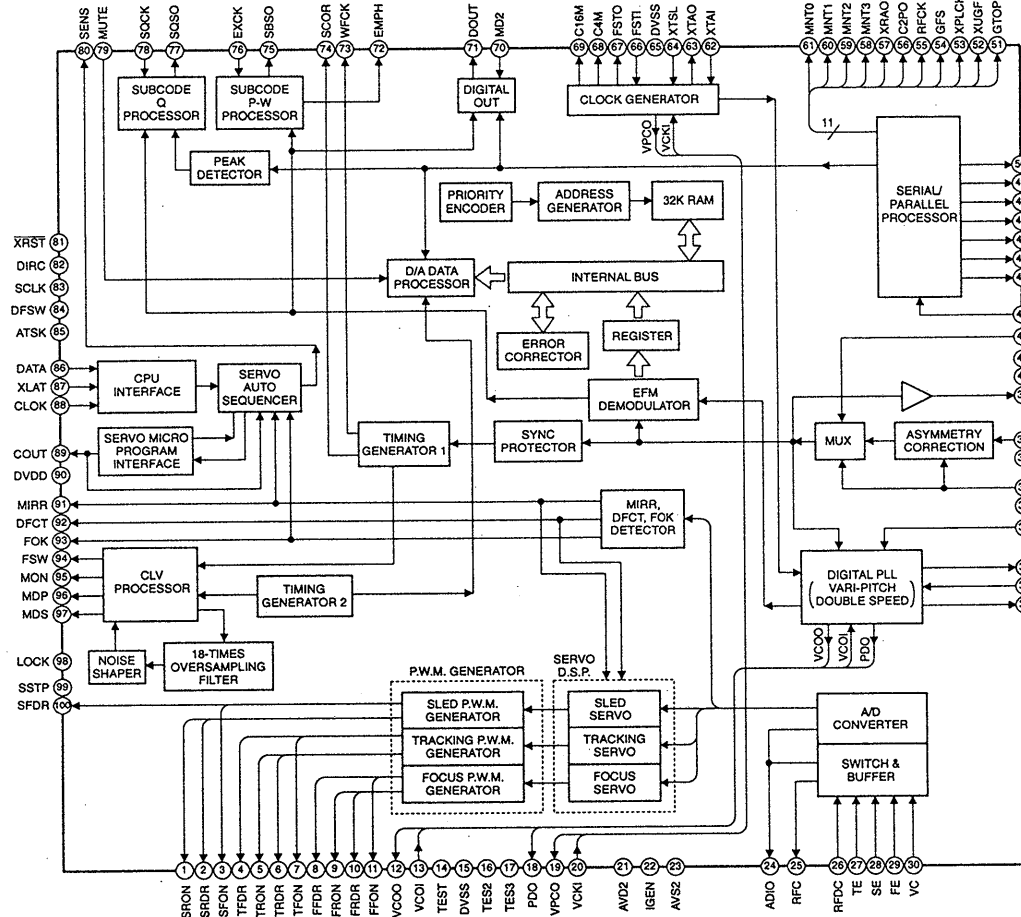


• IC Block Diagrams
- MECHANISM DECK SECTION -

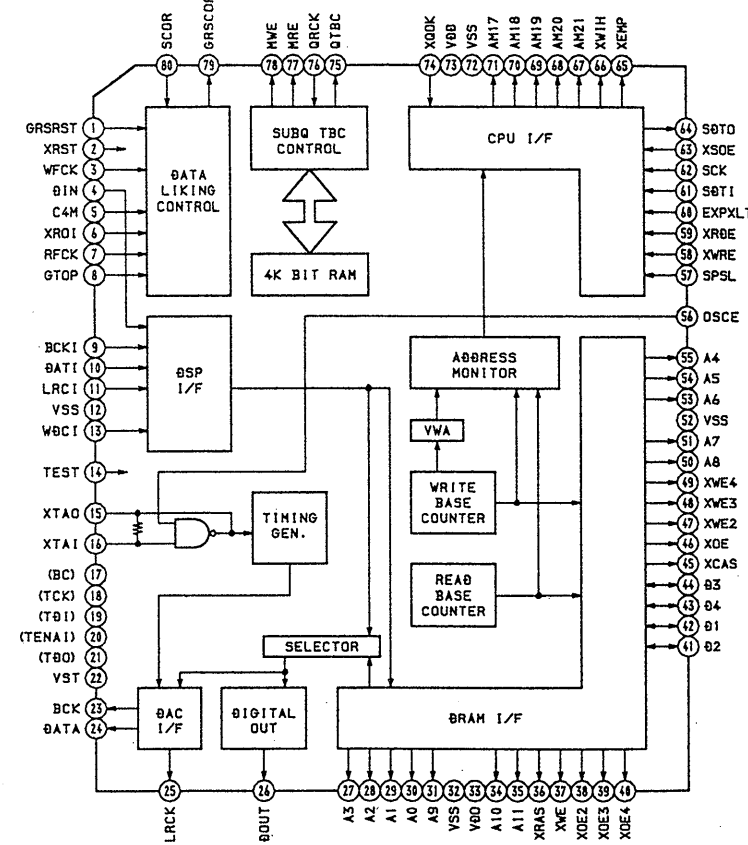
IC1 CXA1791N



IC2 CXD2545Q

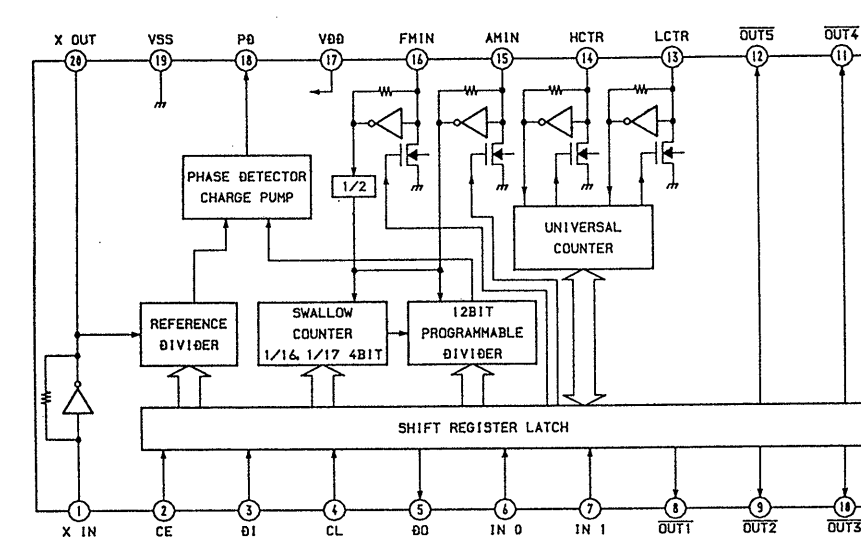


IC3 CXD2512AQ

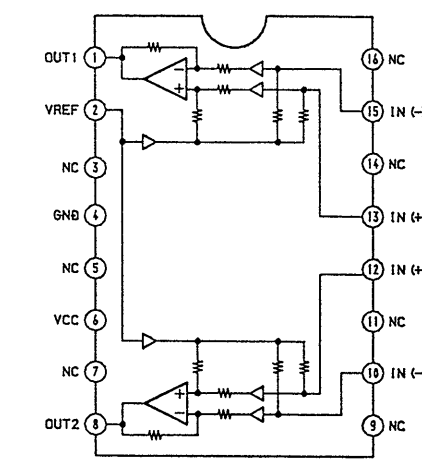


- MAIN SECTION -

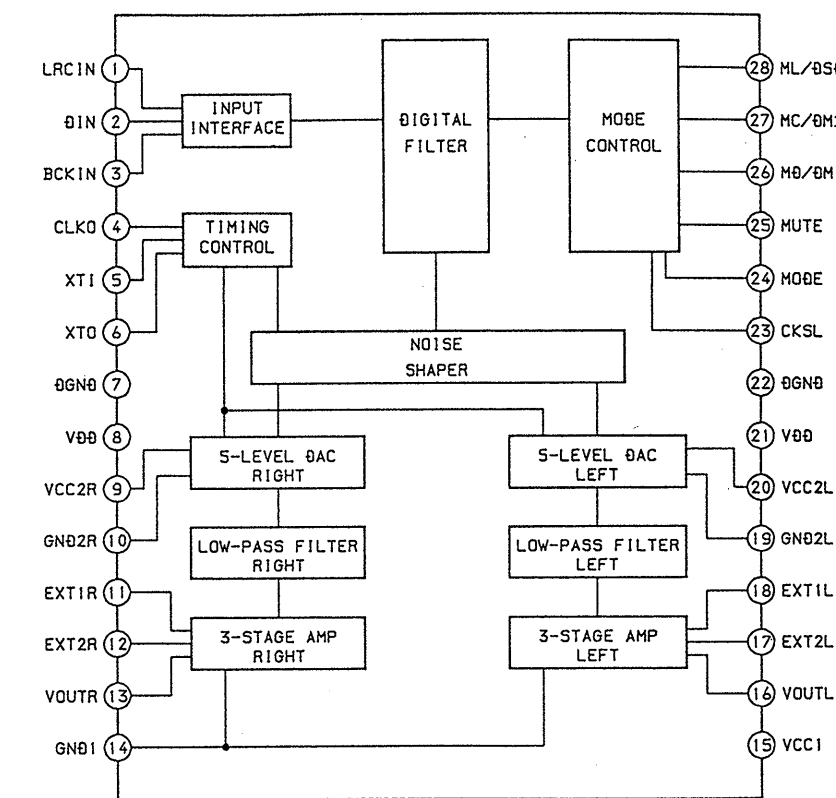
IC3 LC7216M



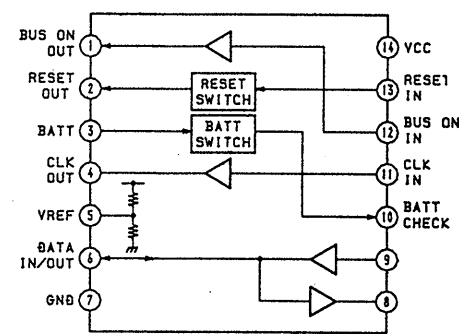
IC302, IC303 TA2050F (EL)



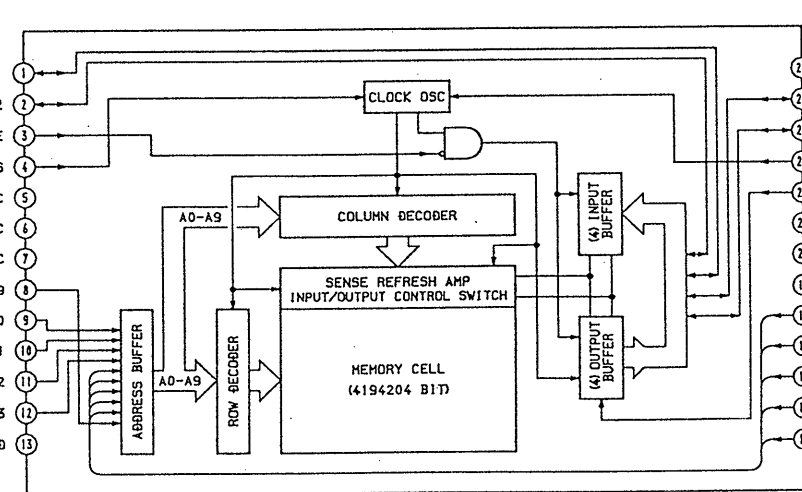
IC401 PCM1710U-A



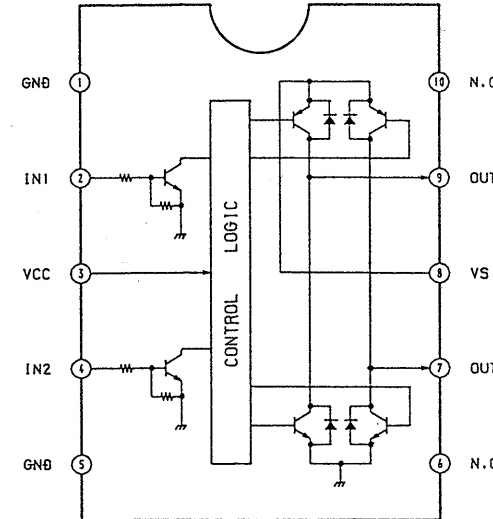
IC751 MM1175XFF



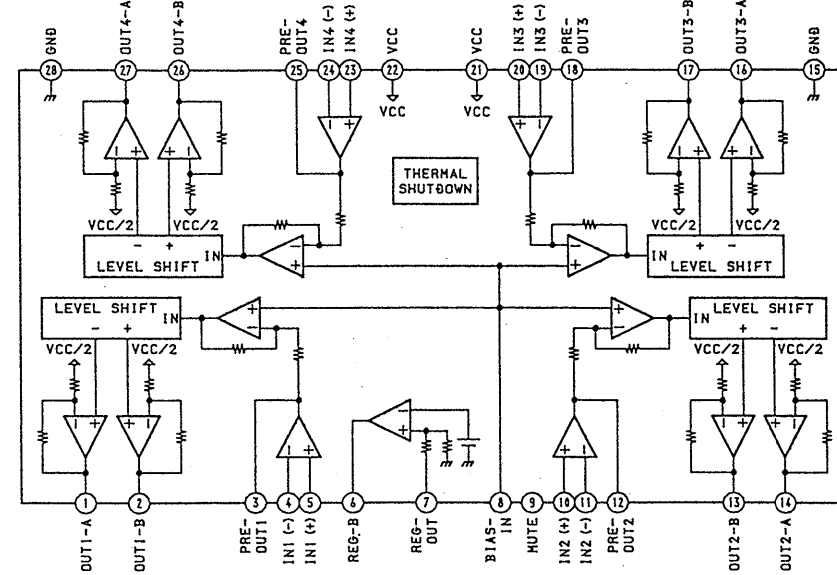
IC4 HM514400BLTT-7



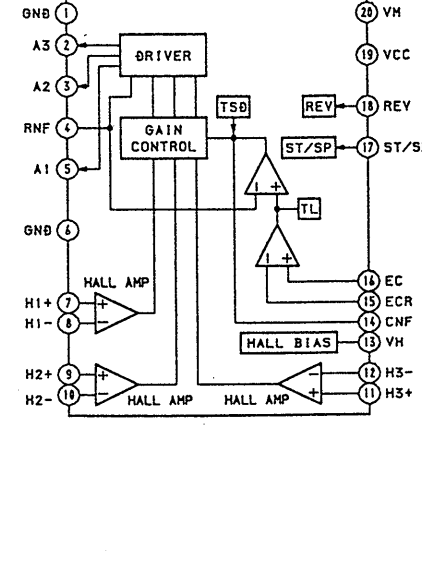
IC6 LB1638M



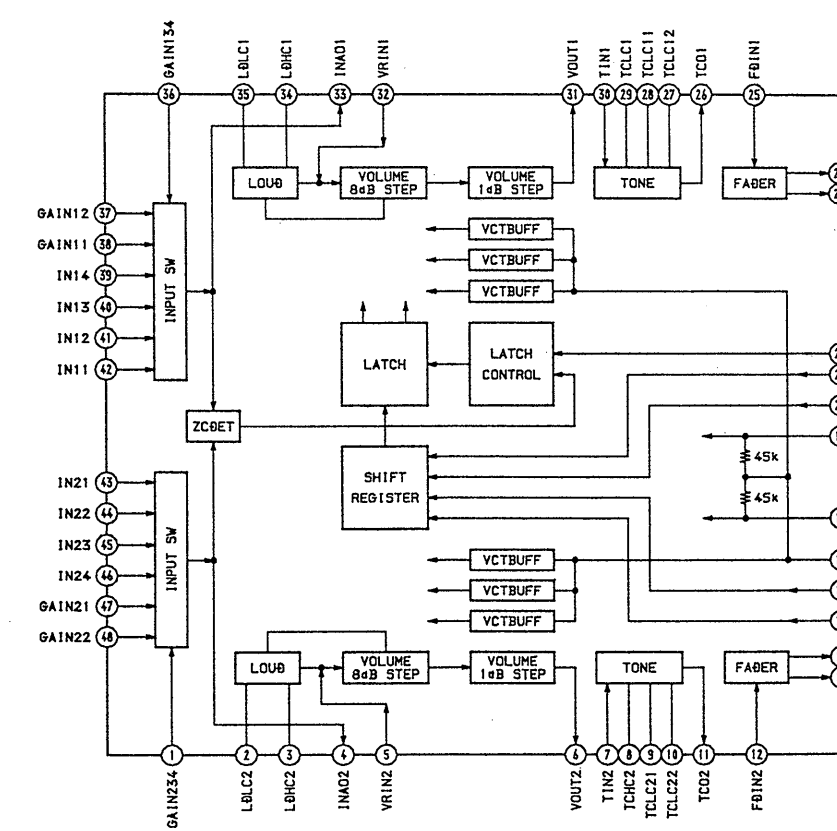
IC7 BA6797FP-E2



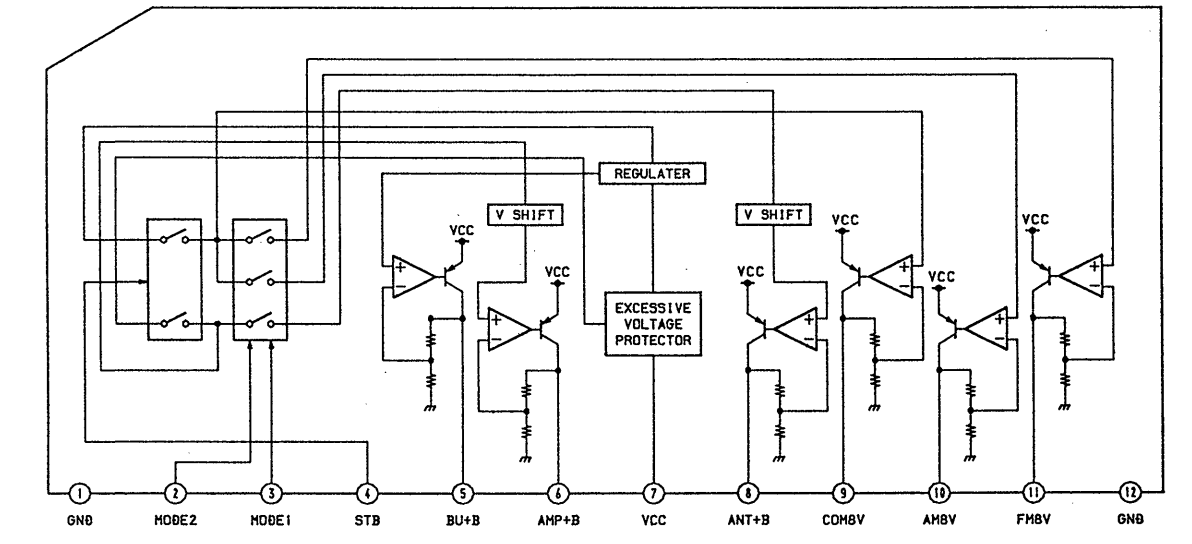
IC8 BA6840AFS-T1



IC301 CXA1946AQ-T6



IC901 BA3918-V2



5-7. IC PIN FUNCTION DESCRIPTION
IC5 CXP84332-017Q (MECHA CONTROL)

Pin No.	Pin Name	I/O	Function
1-5	NCO	O	Not used.
6	DOOR SW	I	Door switch input pin. (not used)
7	LOAD OK	O	Loading OK signal output pin. (not used)
8	LINK OFF	O	Link off signal output pin. (not used)
9	DRV OE	O	Motor driver output enable signal output pin.
10	D SW	I	Down switch input pin.
11-13	NCO	O	Not used.
14	LM EJ	O	Loading motor control pin. (eject detection)
15	LM LOD	O	Loading motor control pin. (loading detection)
16	EMPH O	O	De-emphasis control pin.
17	CDMON	O	Mechanism deck section power supply control pin.
18	CDON	O	CD servo circuit power supply control pin.
19	A MUT	O	Audio muting signal output pin.
20	LD ON	O	Laser power on/off control pin.
21	CD RST	O	CD reset signal output pin.
22	CDOSEL	I	CD digital out function select pin. (not used)
23	ESPSEL	I	ESP function select pin. (not used)
24	FBTBSSEL	I	CD automatic adjustment function select pin. (not used)
25	TSTIN1	I	Test mode setting pin.
26	TSTIN0	I	Test mode setting pin.
27-29	NCO	O	Not used.
30	RESET	I	Reset input pin.
31	X IN	I	Main system clock. (10MHz)
32	X OUT	O	Main system clock. (10MHz)
33	GND	–	GND.
34	XT OUT	O	Sub system clock. (not used)
35	XT IN	I	Sub system clock. (not used)
36	AVSS	O	GND for A/D converter.
37	AVREF	O	Power supply for A/D converter.
38	TEP L	I	Temperature value input pin. (A/D input) (not used)
39	TEP H	I	Temperature value input pin. (A/D input) (not used)
40-45	NCO	O	Not used.
46	GRSCOR	I	Start timing signal for frame writing from ESP.
47	SENSCKO	O	Sense serial data reading clock output pin.
48	UNICKI	I	Serial clock input pin. (for SONY BUS)
49	UNISI	I	Serial data input pin. (for SONY BUS)
50	UNISO	O	Serial data output pin. (for SONY BUS)
51	SQ CKO	O	Sub-code Q data reading clock output pin.
52	SQ SI	I	Sub-code Q data input pin.
53	NCO	O	Not used.
54	GFS	I	Frame sync lock state input pin.
55	F OK	I	Focus OK signal input pin.
56	SCOR	I	Sub-code sync detection signal input pin.
57	SENS	I	CD sense signal input pin.

Pin No.	Pin Name	I/O	Function
58,59	NCO	O	Not used.
60	BU IN	I	BATT voltage detection pin.
61	BUSON	I	BUS ON signal input pin. (for SONY BUS)
62	IN SW	I	IN switch input pin.
63	SELF SW	I	SELF switch input pin.
64	NCO	O	Not used.
65	CD CKO	O	CD serial clock output pin.
66	CD LAT	O	CD latch signal output pin.
67	CD SO	O	CD serial data output pin.
68	ESPXWRE	O	DRAM write enable signal output pin.
69	ESPRDE	O	DRAM read enable signal output pin.
70	ESPXLT	O	DRAM control latch signal output pin.
71	ESPXSOE	O	DRAM control serial data output enable signal output pin.
72	VDD	–	Power supply.
73	NIH	–	Not used.
74	GRSRST	O	DRAM address reset signal output pin. “H” output on track jump.
75	ESPSDT	I	DRAM control status reading data input pin.
76	ESPXQOK	O	Sub-code Q OK signal output pin.
77	ESPQTBC	I	Data reading pin for TRACK NO./INDEX/MIN/SCE display during ESP playback.
78	ESPQRCK	O	Data reading clock output pin for TRACK NO./INDEX/MIN/SCE display during ESP playback.
79	ESPMRE	I	Enable to data write for lapse of time display during ESP playback.
80	ESPMWE	I	Enable to data write for lapse of time display during ESP playback.

IC601 MN883220S4B1 (TUNER CONTROL)

Pin No.	Pin Name	I/O	Function
1-6	NIL	–	Not used.
7	VDD	–	Power supply.
8	X1	–	System clock. (8.0MHz)
9	X2	–	System clock. (8.0MHz)
10	GND	–	GND.
11	XTI	I	Not used.
12	XTO	O	Not used.
13	XO	–	Connected to GND.
14	RESET	I	Reset input.
15	RDS-CLK	I	RDS serial clock input pin.
16	BU-CHECK	I	BATT voltage detection pin.
17	BUS-ON-IN	I	BUS ON control input pin.
18-29	NIL	–	Not used.
30	RDS-DATA	I	RDS serial data input pin.
31	FM-AMS-IN	I	Not used.
32	AM-ST-IN	I	Not used.
33-37	NIL	–	Not used.
38	DI	I	PLL serial data input pin.
39	DO	O	PLL serial data output pin.
40	CLK	O	PLL serial clock output pin.
41	CE	O	PLL serial chip enable output pin.
42	RQ	O	Bus request signal output pin.
43	LINK-OFF	O	Link-off signal output pin. (for SONY BUS)
44	SCK	I	Serial clock input pin. (for SONY BUS)
45	SI	I	Serial data input pin. (for SONY BUS)
46	SO	O	Serial data output pin. (for SONY BUS)
47	VDD	–	Power supply.
48	AVDD	–	Power supply for A/D converter.
49	VREF	–	Reference power supply.
50,51	–	–	Connect to GND.
52	SRAM-RST	I	SRAM reset signal input pin.
53	MUTE-SEL	I	Muting select signal input pin.
54	DSTSEL1	I	Destination setting pin.
55	DSTSEL2	I	Destination setting pin.
56	AM-VSM	I	AM signal meter voltage detection pin.
57	FM-VSM	I	FM signal meter voltage detection pin.
58	VREF	–	Reference GND.
59	–	–	Connect to GND.
60	VSS	–	GND.
61	TU-ON	O	Tuner system power supply control pin.
62	DX/LO	O	Not used.
63	SEEK OUT	O	Seek signal output pin.
64	AM-ON	O	Not used.

Pin No.	Pin Name	I/O	Function
65	FM-ON	O	FM power supply control pin.
66	TUNER-MUTE	O	Tuner muting signal output pin.
67	AF-SEEK	O	AF seek signal output pin. (not used)
68	SRAM	O	Not used.
69	A15	O	Not used.
70	ST	I	Stereo detection signal input pin.
71	SD-IN	I	Station detection signal input pin.
72-80	NIL	–	Not used.

IC701 μ PD78058GC-175-3B9 (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Function
1-3	NIL	I	Not used.
4	AVSS	–	GND for A/D converter.
5,6	NIL	I	Not used.
7	AVREF	–	Reference power supply for A/D converter.
8,9	NIL	I	Not used.
10	COLOR	O	Illumination color select pin. (GREEN/AMBER)
11	NIL	I	Not used.
12	LCDSO	O	LCD serial data output pin.
13	LCDCKO	O	LCD serial clock output pin.
14	LCDCE	O	LCD serial chip enable output pin.
15	LCDINH	O	LCD serial INH output pin. (not used)
16	UNISI	I	Serial data input pin. (for SONY BUS)
17	UNISO	O	Serial data output pin. (for SONY BUS)
18	UNICKI	I	Serial clock input pin. (for SONY BUS)
19	UNICKO	O	Serial clock output pin. (for SONY BUS)
20	BUSON	O	BUS ON control output. (for SONY BUS)
21	DIMMER	O	Brightness control of LCD display.
22	PW-ON	O	System power supply control pin. “H”: power on
23	ILLON	O	Illumination power supply control pin. “H”: power on
24	AMP-STBY	O	Power amp stand-by control pin.
25	FM/AM	O	FM/AM select pin. “H”: FM, “L”: AM
26	NIL	I	Not used.
27	SYSRST	O	System reset output pin. (for SONY BUS)
28	NIL	I	Not used.
29	VOLSO	O	Electronic volume serial data output pin.
30	VOLCKO	O	Electronic volume serial clock output pin.
31	VOLCE	O	Electronic volume serial chip enable output pin.
32	NIL	I	Not used.
33	VSS	–	GND
34	NIL	I	Not used.
35	TV-SEL	I	TV control function presence select pin.
36	NIL	I	Not used.
37	TEST	I/O	TEST mode direct setting pin.
38	PW-SEL	I	Power select switch input pin.
39	NOSESW	I	Front panel removal or attaching detection pin. “L”: attached
40	A-MUT	O	Audio mute control pin. “H”: mute on
41	AMPMUT	O	Power amp mute control pin. “L”: mute on
42	AD-ON	O	Power supply control pin for A/D converter.
43-45	NIL	I	Not used.
46	BEEP	O	Beep sound output pin.
47-49	NIL	O	Not used.
50	NIL	I	Not used.
51	NIL	I/O	Not used.

Pin No.	Pin Name	I/O	Function
52-55	NIL	I	Not used.
56	ACCIN	I	ACC voltage detect pin.
57	EQ-SEL	I	EQ switch input pin. "L": EQ ON.
58,59	NIL	I	Not used.
60	RESET	I	Reset input pin.
61	SIRCS	I	Remote control signal input pin.
62	BU-IN	I	BATT voltage detect pin.
63	KEYACK	I	Key input acknowledge.
64-66	NIL	I	Not used.
67	TIMPOL	I	Connected to GND.
68	VDD	–	Power supply.
69	X2	–	Main system clock. (5.0MHz)
70	X1	–	Main system clock. (5.0MHz)
71	GND	–	GND.
72	XT2	–	Sub system clock. (32.768kHz)
73	XT1	–	Sub system clock. (32.768kHz)
74	AVDD	–	Power supply for A/D converter.
75	AVREF	–	Reference of power supply for A/D converter.
76	KEYIN0	I	Key input. (A/D input)
77	KEYIN1	I	Key input. (A/D input)
78	RC-IN1	I	Rotary commander shift key input.
79	RC-IN2	I	Rotary commander shift key input.
80	NIL	I	Not used.

SECTION 6

EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts Example:

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

↑ ↑
 Parts Color Cabinet's Color

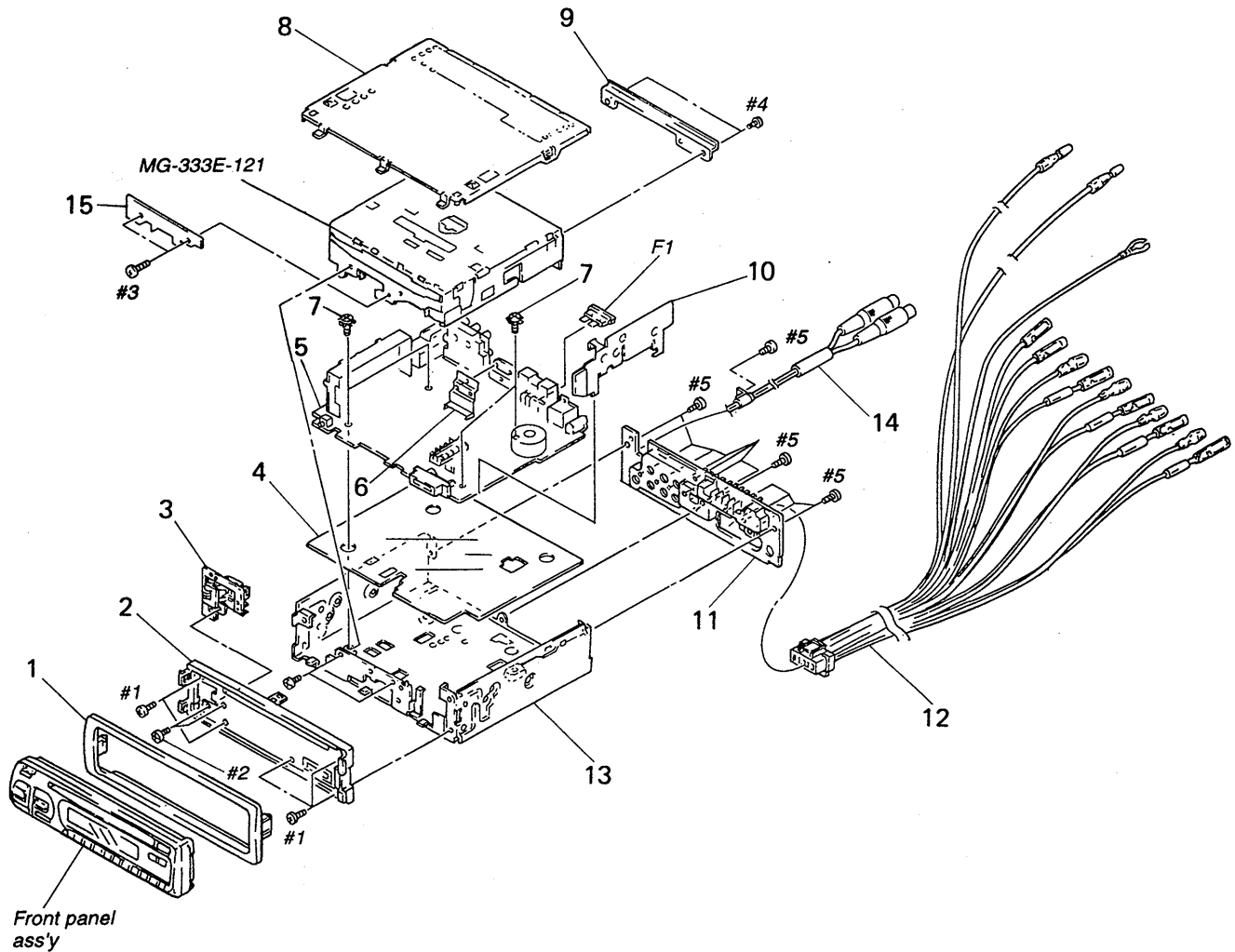
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.

- Accessories and packing materials are given in the last of the electrical parts list.

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

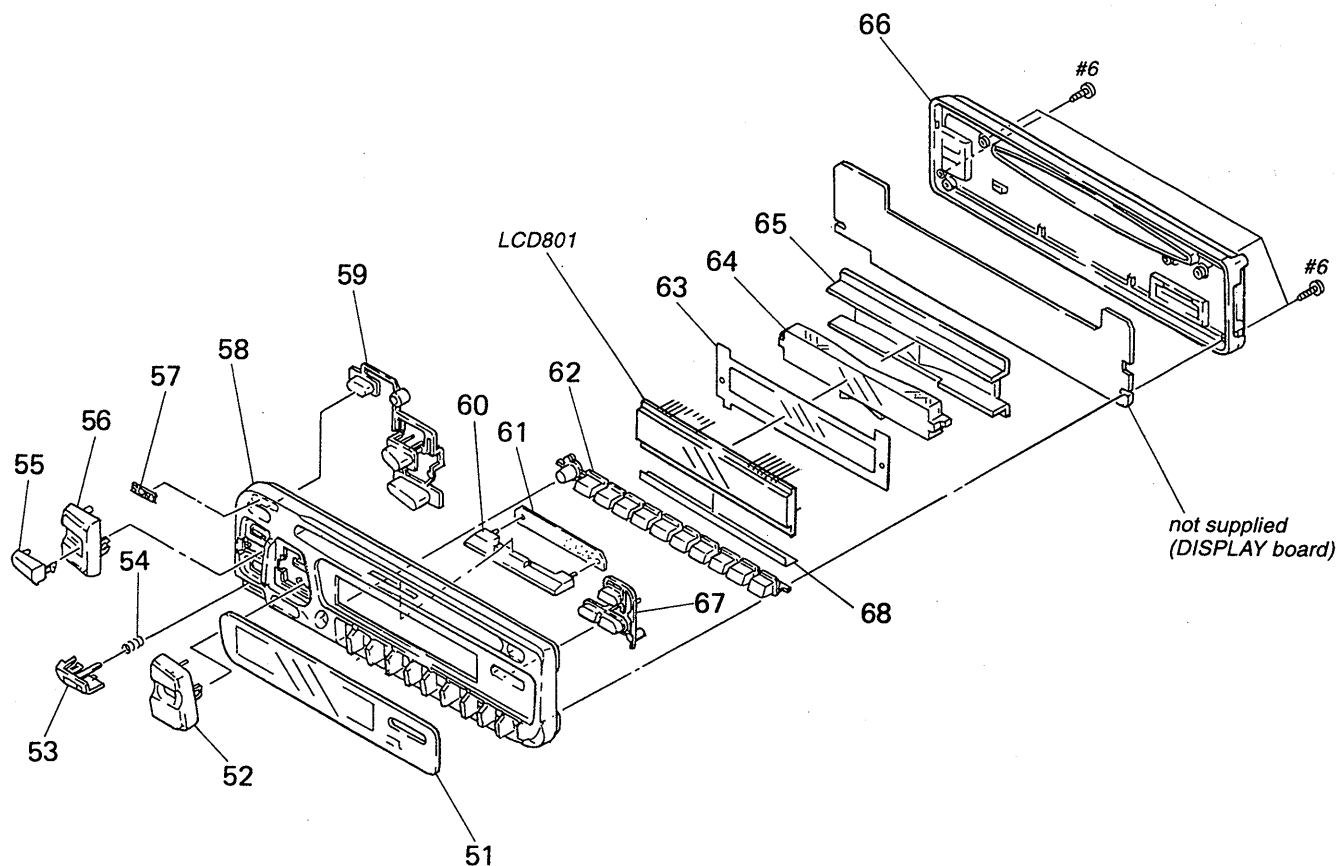
(1) GENERAL SECTION



Ref. No.	Part No.	Description
1	3-932-910-01	COLLAR
2	X-3371-627-1	PANEL (SUB) ASSY
3	X-3367-636-1	LOCK ASSY
* 4	3-932-908-01	SHEET, INSULATING
* 5	A-3309-113-A	MAIN BOARD, COMPLETE
* 6	3-932-893-01	BRACKET (IC)
7	3-915-923-01	SCREW, GROUND POINT
* 8	X-3371-629-1	COVER ASSY

Ref. No.	Part No.	Description
* 9	3-932-894-01	BRACKET (MD)
* 10	3-932-909-01	SINK (IC), HEAT
* 11	3-932-896-11	SINK, HEAT
12	1-776-207-31	CORD (WITH CONNECTOR) (POWER)
* 13	3-932-907-01	CHASSIS
14	1-751-000-21	CORD (WITH CONNECTOR) (LINE OUT)
15	3-935-079-01	BRACKET (MD), FRONT
F1	1-532-982-11	FUSE (BRAD TYPE) (AUTO FUSE) (15A)

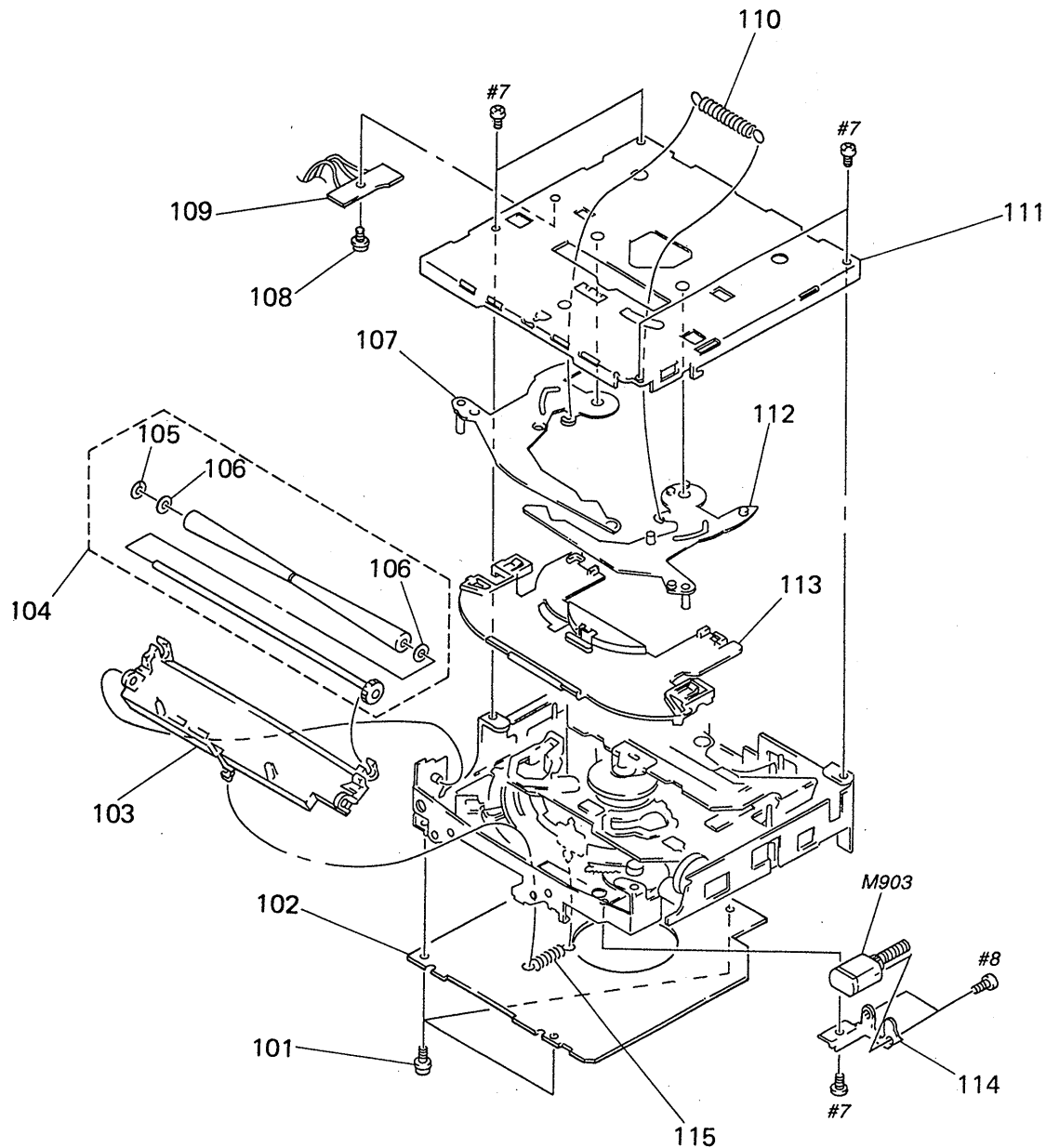
(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-933-330-31	PLATE (WINDOW), INDICATION	
52	3-932-902-01	BUTTON (+, -)	
53	3-932-905-01	BUTTON (RELEASE)	
54	3-914-590-01	SPRING (R2)	
55	3-932-901-01	BUTTON (SOURCE)	
56	3-932-900-01	BUTTON (SEEK) (+, >>>, <<<, -)	
57	3-904-194-01	EMBLEM (NO. 2.5), SONY	
58	3-932-904-21	PANEL, FRONT	
59	3-932-903-01	BUTTON (SOUND) (OFF. SOUND. MUTE)	
60	3-932-889-01	PLATE (F), LIGHT GUIDE	

Ref. No.	Part No.	Description	Remark
61	3-932-898-01	SHEET (F)	
62	3-932-892-01	BUTTON (10 KEY) (● 1. 2. 3. 4. 5. 6. 7. 8. 9. 10)	
* 63	3-932-890-01	SHEET, DIFFUSION	
* 64	3-932-888-01	PLATE (LCD), LIGHT GUIDE	
* 65	3-932-887-01	HOLDER (LCD)	
66	3-932-899-01	PANEL, BACK	
67	3-932-897-01	BUTTON (EJECT) (▲ DSPL. LIST)	
68	3-935-366-01	SHEET (ELECTROSTATIC)	
LCD801	1-801-239-11	DISPLAY PANEL, LIQUID CRYSTAL	

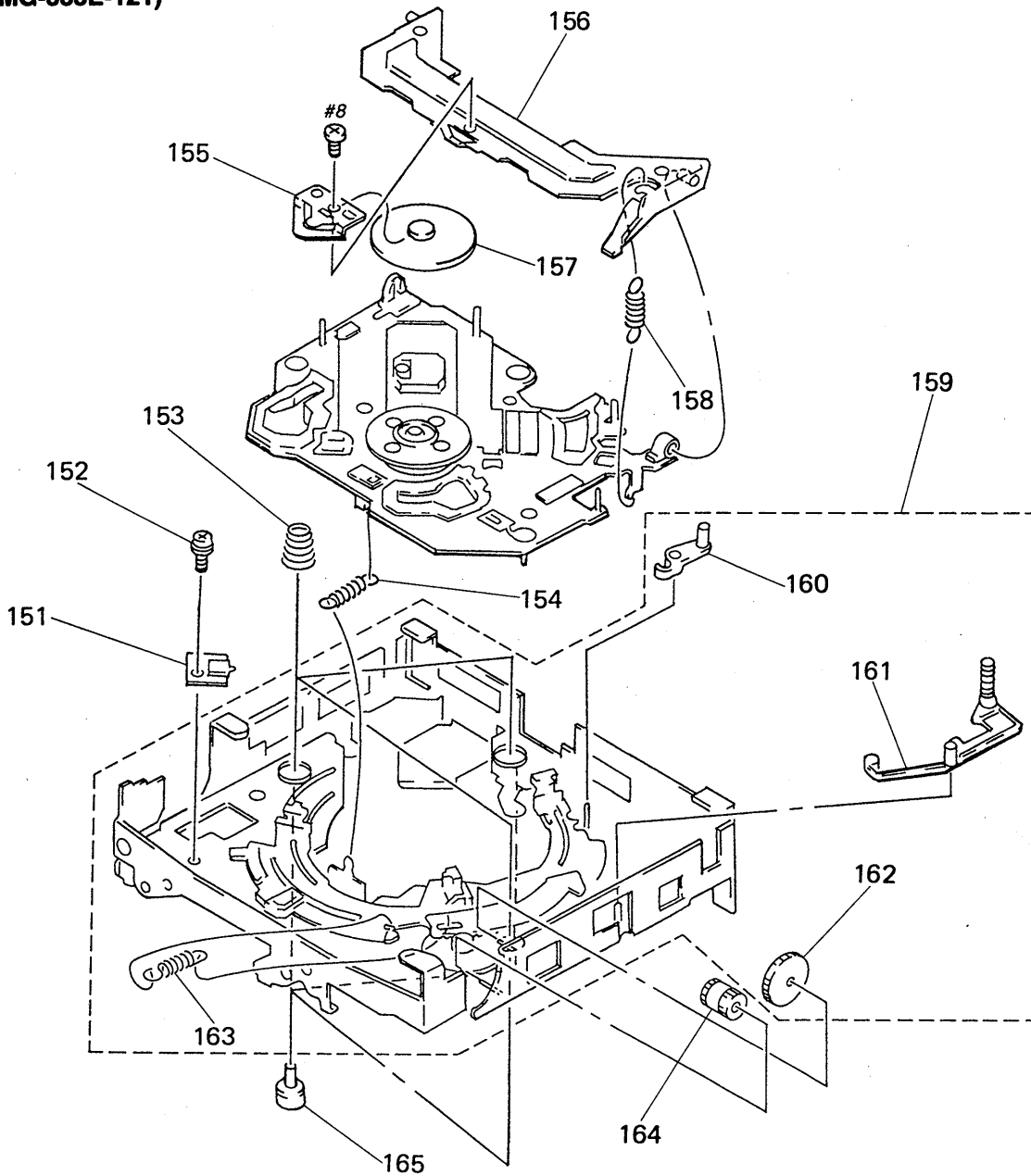
(3) MECHANISM DECK SECTION-1
(MG-333E-121)



Ref. No.	Part No.	Description	Remark
101	3-918-103-01	SCREW	
* 102	A-3309-026-A	SERVO BOARD, COMPLETE	
103	3-931-902-01	ARM (ROLLER)	
104	A-3291-567-A	ROLLER ASSY	
105	3-701-439-11	WASHER	
* 106	3-322-413-01	SPACER, INSULATING	
* 107	X-3371-501-1	LEVER (L) ASSY	
108	3-338-737-01	SCREW (2X3), +PS	

Ref. No.	Part No.	Description	Remark
* 109	1-659-836-11	DISC IN SW BOARD	
110	3-931-909-02	SPRING (LR), TENSION	
* 111	3-931-903-01	CHASSIS (T)	
* 112	X-3371-502-1	LEVER (R) ASSY	
* 113	3-931-908-02	GUIDE (DISC)	
* 114	3-931-899-01	BRACKET (MOTOR)	
115	3-931-916-01	SPRING (RA), TENSION	
M903	A-3291-576-A	MOTOR SUB ASSY, LO (LOADING)	

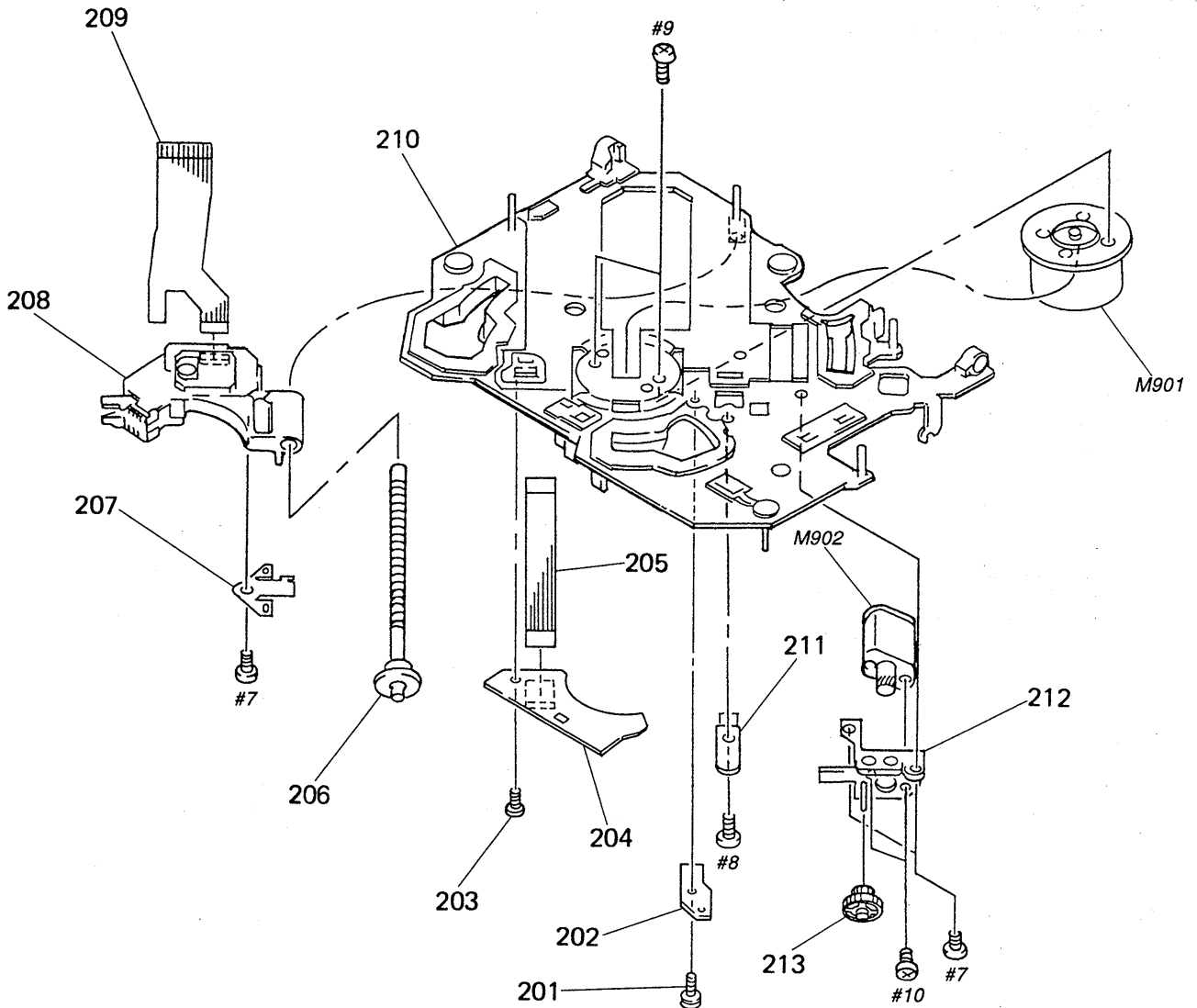
(4) MECHANISM DECK SECTION-2
(MG-333E-121)



Ref. No.	Part No.	Description	Remark
* 151	1-659-837-11	LOAD SW BOARD	
152	3-338-737-01	SCREW (2X3), +PS	
153	3-931-898-01	SPRING (FL), COMPRESSION	
154	3-931-914-01	SPRING (ANGLE), TENSION	
155	3-931-894-01	BRACKET (CP)	
156	3-931-893-01	ARM, CHUCKING	
* 157	3-384-918-01	RETAINER (DISC)	
158	3-931-895-01	SPRING (CH), TENSION	

Ref. No.	Part No.	Description	Remark
159	A-3291-568-A	CHASSIS (M) COMPLETE ASSY	
160	3-931-881-01	LEVER (LOCK)	
161	3-931-879-02	LEVER (D)	
162	3-931-882-02	GEAR (MDL)	
163	3-931-883-01	SPRING (TR), TENSION	
164	3-934-879-01	WHEEL (U), WORM	
165	3-931-897-01	DAMPER (T)	

(5) MECHANISM DECK SECTION-3
(MG-333E-121)



Ref.No.	Part No.	Description	Remark
201	3-338-737-01	SCREW (2X3), +PS	
* 202	1-659-835-11	LIMIT SW BOARD	
203	3-909-607-01	SCREW	
* 204	1-659-834-11	SUB BOARD	
205	1-659-880-11	MOTOR FLEXIBLE BOARD	
206	A-3291-571-A	SHAFT (FEED) ASSY	
207	3-931-834-01	SPRING (FEED), PLATE	
△208	8-848-402-02	OPTICAL PICK-UP KSS-520A	

Ref.No.	Part No.	Description	Remark
209	1-659-881-11	PICK-UP FLEXIBLE BOARD	
* 210	X-3371-503-1	CHASSIS (OP) (O/S) ASSY	
211	3-931-829-01	SPRING (SL), PLATE	
212	X-3371-504-1	BASE (DRIVING) ASSY	
213	3-931-832-01	GEAR (SL MIDWAY)	
M901	X-3371-665-1	MOTOR ASSY (SPINDLE)	
M902	A-3291-574-A	MOTOR ASSY, SLED	

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

DISC IN SW

DISPLAY

SECTION 7 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.
- XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A. uPA...: μ PA.
uPB...: μ PB. uPC...: μ PC. uPD...: μ PD.
- CAPACITORS
uF: μ F
- COILS
uH: μ H

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

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-659-836-11	DISC IN SW BOARD *****				< SWITCH >	
		< SWITCH >		LSW801	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (Δ)	
SW1	1-572-288-11	SWITCH, PUSH (DISC IN)		LSW802	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (LIST)	
SW2	1-572-288-11	SWITCH, PUSH (SELF)		LSW803	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (DSPL)	
*****				LSW805	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (10)	
		DISPLAY BOARD *****		LSW806	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (9)	
*	3-932-887-01	HOLDER (LCD)		LSW807	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (8)	
*	3-932-888-01	PLATE (LCD), LIGHT GUIDE		LSW808	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (7)	
*	3-932-890-01	SHEET, DIFFUSION		LSW809	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (6)	
	3-935-366-01	SHEET (ELECTROSTATIC)		LSW810	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (5)	
		< CAPACITOR >		LSW811	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (4)	
C801	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V		LSW812	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (3)	
C802	1-164-489-11	CERAMIC CHIP 0.22uF 10% 16V		LSW813	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (2)	
C804	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		LSW814	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (1)	
C847	1-164-222-11	CERAMIC CHIP 0.22uF 25V		LSW815	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (OFF)	
		< CONNECTOR >		LSW816	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SOURCE)	
CNP801	1-764-423-11	PIN, CONNECTOR 12P		LSW817	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (+ $\Rightarrow \Rightarrow$)	
		< DIODE >		LSW818	1-762-620-11	SWITCH, KEY BOARD (WITH LED) ($\Leftarrow \Leftarrow$ -)	
D801	8-719-404-46	DIODE MA110		LSW819	1-762-620-11	SWITCH, KEY BOARD (WITH LED) ($\bullet$)	
D802	8-719-977-12	DIODE DT26.8B		LSW820	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (MUTE)	
D803	8-719-977-12	DIODE DT26.8B		LSW821	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SOUND)	
D804	8-719-977-12	DIODE DT26.8B		LSW822	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (+)	
D805	8-719-420-51	DIODE MA729		LSW823	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (-)	
D806	8-719-422-43	DIODE MA8051-H				< PILOT LAMP >	
D807	8-719-422-43	DIODE MA8051-H		PL801	1-517-533-21	LAMP, PILOT (GREEN)	
		< IC >		PL802	1-517-533-21	LAMP, PILOT (GREEN)	
IC801	8-759-365-90	IC LC75824W		PL803	1-517-533-11	LAMP, PILOT (AMBER)	
IC802	8-749-012-17	IC RS-140-T		PL804	1-517-533-11	LAMP, PILOT (AMBER)	
		< LIQUID CRYSTAL DISPLAY >				< TRANSISTOR >	
LCD801	1-801-239-11	DISPLAY PANEL, LIQUID CRYSTAL		Q801	8-729-904-78	TRANSISTOR DTD113ZK	
				Q802	8-729-904-66	TRANSISTOR DTD113EK	
				Q803	8-729-904-78	TRANSISTOR DTD113ZK	
				Q804	8-729-904-66	TRANSISTOR DTD113EK	
						< RESISTOR >	
				R801	1-219-286-11	METAL GLAZE 680 2% 1/16W	
				R802	1-219-286-11	METAL GLAZE 680 2% 1/16W	

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description	Remark
R803	1-219-286-11	METAL GLAZE	680 2% 1/16W
R804	1-218-838-11	METAL GLAZE	1K 2% 1/16W
R805	1-208-687-11	METAL GLAZE	1.5K 2% 1/16W
R806	1-208-687-11	METAL GLAZE	1.5K 2% 1/16W
R807	1-208-691-11	METAL GLAZE	2.2K 2% 1/16W
R808	1-208-695-11	METAL GLAZE	3.3K 2% 1/16W
R809	1-208-699-11	METAL GLAZE	4.7K 2% 1/16W
R810	1-208-703-11	METAL GLAZE	6.8K 2% 1/16W
R811	1-208-707-11	METAL GLAZE	10K 2% 1/16W
R812	1-208-711-11	METAL GLAZE	15K 2% 1/16W
R813	1-208-715-11	METAL GLAZE	22K 2% 1/16W
R814	1-219-286-11	METAL GLAZE	680 2% 1/16W
R815	1-219-286-11	METAL GLAZE	680 2% 1/16W
R816	1-219-286-11	METAL GLAZE	680 2% 1/16W
R817	1-218-838-11	METAL GLAZE	1K 2% 1/16W
R818	1-208-687-11	METAL GLAZE	1.5K 2% 1/16W
R819	1-208-687-11	METAL GLAZE	1.5K 2% 1/16W
R820	1-208-691-11	METAL GLAZE	2.2K 2% 1/16W
R821	1-208-695-11	METAL GLAZE	3.3K 2% 1/16W
R822	1-216-186-00	METAL GLAZE	330 5% 1/8W
R823	1-216-190-00	METAL GLAZE	470 5% 1/8W
R826	1-216-025-00	METAL GLAZE	100 5% 1/10W
R827	1-216-029-00	METAL CHIP	150 5% 1/10W
R828	1-216-025-00	METAL GLAZE	100 5% 1/10W
R829	1-216-029-00	METAL CHIP	150 5% 1/10W
R830	1-216-033-00	METAL CHIP	220 5% 1/10W
R831	1-216-037-00	METAL CHIP	330 5% 1/10W
R832	1-216-033-00	METAL CHIP	220 5% 1/10W
R833	1-216-037-00	METAL CHIP	330 5% 1/10W
R834	1-216-033-00	METAL CHIP	220 5% 1/10W
R835	1-216-037-00	METAL CHIP	330 5% 1/10W
R836	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R838	1-216-025-00	METAL GLAZE	100 5% 1/10W
R839	1-216-041-00	METAL CHIP	470 5% 1/10W
R840	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R841	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R842	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R843	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R844	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R845	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R846	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R847	1-216-113-00	METAL CHIP	470K 5% 1/10W
R848	1-216-857-11	METAL CHIP	1M 5% 1/16W
R850	1-216-033-00	METAL CHIP	220 5% 1/10W
R851	1-216-037-00	METAL CHIP	330 5% 1/10W

DISPLAY

LIMIT SW

LOAD SW

MAIN

Ref. No.	Part No.	Description	Remark
*	1-659-835-11	LIMIT SW BOARD	

		< SWITCH >	
SW3	1-572-688-11	SWITCH, PUSH (1 KEY) (LIMIT)	

*	1-659-837-11	LOAD SW BOARD	

		< SWITCH >	
SW4	1-572-288-11	SWITCH, PUSH (LOAD)	

*	A-3309-113-A	MAIN BOARD, COMPLETE	

*	3-932-893-01	BRACKET (IC)	
*	3-932-909-01	SINK (IC), HEAT	
		< CAPACITOR >	
C1	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C2	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C4	1-124-589-11	ELECT 47uF	20% 16V
C5	1-164-182-11	CERAMIC CHIP 0.0033uF	10% 50V
C6	1-136-169-00	FILM 0.22uF	5% 50V
C7	1-136-165-00	FILM 0.1uF	5% 50V
C12	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C13	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C14	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C15	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C16	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C17	1-124-589-11	ELECT 47uF	20% 16V
C18	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C19	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C20	1-126-933-11	ELECT 100uF	20% 10V
C21	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C22	1-126-933-11	ELECT 100uF	20% 10V
C23	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C24	1-126-933-11	ELECT 100uF	20% 10V
C25	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C32	1-164-346-11	CERAMIC CHIP 1uF	16V
C33	1-124-455-00	ELECT 100uF	20% 16V
C37	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C38	1-124-234-00	ELECT 22uF	20% 16V
C39	1-164-222-11	CERAMIC CHIP 0.22uF	25V
C51	1-164-343-11	CERAMIC CHIP 0.056uF	10% 25V
C53	1-107-682-11	CERAMIC CHIP 1uF	10% 16V
C55	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C59	1-107-682-11	CERAMIC CHIP 1uF	10% 16V

MAIN

SEE ADDITIONAL
INFORMATION

Ref. No.	Part No.	Description	Remark		
C63	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C65	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C69	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C102	1-126-161-11	ELECT	2.2uF	20%	50V
C103	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C105	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C106	1-124-257-00	ELECT	2.2uF	20%	50V
C107	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C108	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C109	1-104-946-11	ELECT	10uF	20%	35V
C110	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C111	1-104-946-11	ELECT	10uF	20%	35V
C112	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C113	1-104-946-11	ELECT	10uF	20%	35V
C114	1-104-946-11	ELECT	10uF	20%	35V
C116	1-126-288-11	ELECT	4.7uF	20%	16V
C117	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C118	1-126-288-11	ELECT	4.7uF	20%	16V
C119	1-126-288-11	ELECT	4.7uF	20%	16V
C120	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C121	1-126-288-11	ELECT	4.7uF	20%	16V
C122	1-104-945-11	ELECT	4.7uF	20%	35V
C123	1-104-945-11	ELECT	4.7uF	20%	35V
C124	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C125	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C126	1-136-165-00	FILM	0.1uF	5%	50V
C127	1-136-165-00	FILM	0.1uF	5%	50V
C128	1-136-165-00	FILM	0.1uF	5%	50V
C129	1-136-165-00	FILM	0.1uF	5%	50V
C130	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C131	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C132	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C133	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-126-161-11	ELECT	2.2uF	20%	50V
C203	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C205	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C206	1-124-257-00	ELECT	2.2uF	20%	50V
C207	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C208	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C209	1-104-946-11	ELECT	10uF	20%	35V
C210	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C211	1-104-946-11	ELECT	10uF	20%	35V
C212	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C213	1-104-946-11	ELECT	10uF	20%	35V
C214	1-104-946-11	ELECT	10uF	20%	35V
C216	1-126-288-11	ELECT	4.7uF	20%	16V
C217	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C218	1-126-288-11	ELECT	4.7uF	20%	16V

Ref. No.	Part No.	Description	Remark		
C219	1-126-288-11	ELECT	4.7uF	20%	16V
C220	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C221	1-126-288-11	ELECT	4.7uF	20%	16V
C222	1-104-945-11	ELECT	4.7uF	20%	35V
C223	1-104-945-11	ELECT	4.7uF	20%	35V
C224	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C225	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C226	1-115-326-00	FILM	0.1uF	5%	50V
C227	1-136-165-00	FILM	0.1uF	5%	50V
C228	1-115-326-00	FILM	0.1uF	5%	50V
C229	1-115-326-00	FILM	0.1uF	5%	50V
C230	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C231	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C232	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C233	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C302	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C303	1-126-277-11	ELECT	100uF	20%	10V
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C305	1-107-889-11	ELECT	220uF	20%	10V
C306	1-124-234-00	ELECT	22uF	20%	16V
C307	1-164-346-11	CERAMIC CHIP	1uF		16V
C308	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C309	1-128-241-11	ELECT	220uF	20%	10V
C310	1-128-241-11	ELECT	220uF	20%	10V
C311	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C312	1-126-163-11	ELECT	4.7uF	20%	50V
C313	1-124-257-00	ELECT	2.2uF	20%	50V
C321	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C322	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C324	1-115-469-21	CAPACITOR	4700uF		16V
C325	1-136-165-00	FILM	0.1uF	5%	50V
C327	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C328	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C329	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C330	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C331	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C402	1-104-952-11	ELECT	22uF	20%	16V
C404	1-104-952-11	ELECT	22uF	20%	16V
C405	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C406	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C407	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C408	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C409	1-128-428-11	ELECT	10uF	20%	35V
C410	1-128-428-11	ELECT	10uF	20%	35V
C411	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C412	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C413	1-165-319-11	CERAMIC CHIP	0.1uF		50V

SEE ADDITIONAL
INFORMATION

MAIN

Ref. No.	Part No.	Description	Remark		
C414	1-163-215-00	CERAMIC CHIP	0.0027uF	5%	50V
C415	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C416	1-163-215-00	CERAMIC CHIP	0.0027uF	5%	50V
C417	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C418	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C419	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C420	1-128-428-11	ELECT	10uF	20%	35V
C421	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C422	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C423	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C424	1-104-945-11	ELECT	4.7uF	20%	35V
C451	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C452	1-107-889-11	ELECT	220uF	20%	16V
C453	1-107-889-11	ELECT	220uF	20%	16V
C454	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C455	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C458	1-126-277-11	ELECT	100uF	20%	10V
C601	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C602	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C603	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C604	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C607	1-126-154-11	ELECT	47uF	20%	6.3V
C608	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C651	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C652	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C701	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C702	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C703	1-126-154-11	ELECT	47uF	20%	6.3V
C704	1-163-091-00	CERAMIC CHIP	8PF		50V
C705	1-163-091-00	CERAMIC CHIP	8PF		50V
C706	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C751	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C752	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C770	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C771	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C901	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C902	1-126-157-11	ELECT	10uF	20%	16V
C903	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C904	1-126-157-11	ELECT	10uF	20%	16V
C905	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C906	1-126-157-11	ELECT	10uF	20%	16V
C907	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C908	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C910	1-126-163-11	ELECT	4.7uF	20%	50V
C911	1-126-301-11	ELECT	1uF	20%	50V
C912	1-125-701-11	CAPACITOR	0.047uF		5.5V
C913	1-124-455-00	ELECT	100uF	20%	16V
C914	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C951	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V

Ref. No.	Part No.	Description	Remark		
C952	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
< CONNECTOR/JACK >					
CNJ502	1-764-808-11	JACK (ANT IN)			
CNJ901	1-566-822-41	JACK (REMOTE IN)			
* CNP33	1-750-241-21	PIN, CONNECTOR (PC BOARD) 3P			
CNP301	1-774-701-11	PIN, CONNECTOR 16P			
CNP302	1-774-700-11	JACK, PIN 6P (SUB AUDIO IN/LINE OUT)			
CNP504	1-764-617-12	PIN, CONNECTOR (PC BOARD) 30P			
CNP751	1-580-907-31	PLUG, CONNECTOR			
CNP901	1-764-422-11	PLUG, CONNECTOR 12P			
< DIODE >					
D1	8-719-981-59	DIODE	FC805		
D3	8-719-977-03	DIODE	DTZ5.6B		
D4	1-519-504-11	DIODE	GAP, DISCHARGE		
D5	8-719-422-97	DIODE	MA8091-M		
D301	8-719-421-24	DIODE	MA8039-H		
D302	8-719-421-24	DIODE	MA8039-H		
D310	8-719-049-38	DIODE	1N5404TU		
D312	8-719-053-18	DIODE	1SR154-400TE-25		
D316	8-719-053-18	DIODE	1SR154-400TE-25		
D451	8-719-422-97	DIODE	MA8091-M		
D452	8-719-977-03	DIODE	DTZ5.6B		
D601	8-719-050-86	DIODE	1SS133T-91S		
D701	8-719-404-46	DIODE	MA110		
D751	8-719-914-43	DIODE	DAN202K		
D752	8-719-422-64	DIODE	MA8062-M		
D753	8-719-422-64	DIODE	MA8062-M		
D754	8-719-977-12	DIODE	DTZ6.8B		
D755	8-719-422-64	DIODE	MA8062-M		
D760	8-719-422-76	DIODE	MA8075-M		
D901	8-719-109-97	DIODE	RD6.8ES-B2		
D902	8-719-801-78	DIODE	1SS184		
D904	8-719-977-12	DIODE	DTZ6.8B		
D905	8-719-914-44	DIODE	DAP202K		
D906	8-719-109-97	DIODE	RD6.8ES-B2		
D907	8-719-977-12	DIODE	DTZ6.8B		
D908	8-719-109-97	DIODE	RD6.8ES-B2		
D909	8-719-109-97	DIODE	RD6.8ES-B2		
D910	8-719-109-97	DIODE	RD6.8ES-B2		
D911	8-719-109-97	DIODE	RD6.8ES-B2		
D912	8-719-109-97	DIODE	RD6.8ES-B2		
D914	8-719-109-97	DIODE	RD6.8ES-B2		
D915	8-719-109-97	DIODE	RD6.8ES-B2		
D916	8-719-404-46	DIODE	MA110		
D920	8-719-053-18	DIODE	1SR154-400TE-25		
D921	8-719-053-18	DIODE	1SR154-400TE-25		
D922	8-719-022-90	DIODE	MA8160M		

MAIN

SEE ADDITIONAL
INFORMATION

Ref. No.	Part No.	Description	Remark
D925	8-719-404-46	DIODE MA110	
D951	8-719-914-44	DIODE DAP202K	
D952	8-719-423-23	DIODE MA8110-M	
D954	8-719-914-43	DIODE DAN202K	
D955	8-719-404-46	DIODE MA110	
< FERRITE BEAD >			
FB402	1-500-244-21	BEAD, FERRITE (CHIP)	
< IC >			
IC2	8-759-711-82	IC NJM4580E	
IC3	8-759-823-81	IC LC7216M	
IC201	8-759-711-82	IC NJM4580E	
IC202	8-759-711-82	IC NJM4580E	
IC301	8-752-075-48	IC CXA1946AQ-T6	
IC302	8-759-262-37	IC TA2050F (EL)	
IC303	8-759-262-37	IC TA2050F (EL)	
IC304	8-759-369-41	IC HA13155	
IC401	8-759-185-27	IC PCM1710U-A	
IC402	8-759-700-94	IC NJM5532M-T1	
IC455	8-759-711-58	IC NJM78L05UA	
IC601	8-759-381-32	IC MN1883220S4B1	
IC701	8-759-387-68	IC uPD78P058GC-175-3B9	
IC751	8-759-096-16	IC MM1175XFF	
IC901	8-759-347-49	IC BA3918-V2	
IC902	8-759-097-36	IC RH5VA40AA	
IC903	8-759-344-91	IC RN5VD23AA-TL	
< CHIP CONDUCTOR >			
JC71	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC306	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC333	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC601	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC651	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC717	1-216-295-00	CONDUCTOR, CHIP	(2012)
< COIL >			
L1	1-410-973-11	INDUCTOR 22uH	
L300	1-411-670-11	COIL, CHOKE	
L601	1-410-973-11	INDUCTOR 22uH	
L701	1-410-973-11	INDUCTOR 22uH	
< TRANSISTOR >			
Q3	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q102	8-729-920-21	TRANSISTOR DTC314TKH04	
Q201	8-729-920-21	TRANSISTOR DTC314TKH04	
Q202	8-729-920-21	TRANSISTOR DTC314TKH04	

Ref. No.	Part No.	Description	Remark
Q301	8-729-020-67	TRANSISTOR XN1A312-TX	
Q451	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q453	8-729-019-00	TRANSISTOR 2SD2394-G	
Q454	8-729-020-67	TRANSISTOR XN1A312-TX	
Q455	8-729-216-22	TRANSISTOR 2SA1162-G	
Q456	8-729-421-22	TRANSISTOR UN2211	
Q556	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q557	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q701	8-729-424-18	TRANSISTOR UN2113-TX	
Q751	8-729-402-13	TRANSISTOR XN1501	
Q752	8-729-424-08	TRANSISTOR UN2111	
Q760	8-729-421-22	TRANSISTOR UN2211	
Q761	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q900	8-729-421-22	TRANSISTOR UN2211	
Q902	8-729-030-98	TRANSISTOR 2PD601A-115	
Q951	8-729-020-67	TRANSISTOR XN1A312-TX	
Q952	8-729-019-00	TRANSISTOR 2SD2394-G	
Q953	8-729-106-60	TRANSISTOR 2SB1115A	
Q954	8-729-424-59	TRANSISTOR UN2212	
Q957	8-729-024-31	TRANSISTOR XN1111-TX	
< RESISTOR >			
R1	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R2	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R4	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R7	1-216-037-00	METAL CHIP 330 5% 1/10W	
R8	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R9	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R10	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R13	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R14	1-216-222-00	METAL GLAZE 10K 5% 1/8W	
R16	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R17	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R18	1-216-029-00	METAL CHIP 150 5% 1/10W	
R19	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R51	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R53	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R54	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R55	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R56	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R57	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R62	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R63	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R64	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R65	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R66	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R67	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R100	1-216-238-00	METAL GLAZE 47K 5% 1/8W	
R103	1-216-073-00	METAL CHIP 10K 5% 1/10W	

SEE ADDITIONAL
INFORMATION

MAIN

Ref. No.	Part No.	Description	Remark		
R104	1-216-073-00	METAL CHIP	10K	5%	1/10W
R109	1-216-033-00	METAL CHIP	220	5%	1/10W
R110	1-216-033-00	METAL CHIP	220	5%	1/10W
R112	1-216-081-00	METAL CHIP	22K	5%	1/10W
R113	1-216-081-00	METAL CHIP	22K	5%	1/10W
R115	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R116	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R117	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R118	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R119	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R120	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R121	1-216-041-00	METAL CHIP	470	5%	1/10W
R122	1-216-041-00	METAL CHIP	470	5%	1/10W
R123	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R124	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R125	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R126	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R127	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R128	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R129	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R130	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R131	1-216-813-11	METAL CHIP	220	5%	1/16W
R132	1-216-813-11	METAL CHIP	220	5%	1/16W
R133	1-216-813-11	METAL CHIP	220	5%	1/16W
R134	1-216-813-11	METAL CHIP	220	5%	1/16W
R155	1-216-081-00	METAL CHIP	22K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R158	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R200	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R203	1-216-073-00	METAL CHIP	10K	5%	1/10W
R204	1-216-073-00	METAL CHIP	10K	5%	1/10W
R209	1-216-033-00	METAL CHIP	220	5%	1/10W
R210	1-216-033-00	METAL CHIP	220	5%	1/10W
R212	1-216-081-00	METAL CHIP	22K	5%	1/10W
R213	1-216-081-00	METAL CHIP	22K	5%	1/10W
R215	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R216	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R217	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R218	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R219	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R220	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R221	1-216-041-00	METAL CHIP	470	5%	1/10W
R222	1-216-041-00	METAL CHIP	470	5%	1/10W
R223	1-216-849-11	METAL CHIP	220K	5%	1/16W
R224	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R225	1-216-849-11	METAL CHIP	220K	5%	1/16W
R226	1-216-057-00	METAL CHIP	2.2K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
R227	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R228	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R229	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R230	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R253	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R254	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R255	1-216-081-00	METAL CHIP	22K	5%	1/10W
R256	1-216-081-00	METAL CHIP	22K	5%	1/10W
R270	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R271	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R272	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R273	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R301	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R302	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R303	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R304	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R305	1-216-073-00	METAL CHIP	10K	5%	1/10W
R401	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R402	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R403	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R404	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R405	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R406	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R407	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R408	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R410	1-216-805-11	METAL CHIP	47	5%	1/16W
R411	1-216-864-11	METAL CHIP	0	5%	1/16W
R412	1-216-037-00	METAL CHIP	330	5%	1/10W
R413	1-216-037-00	METAL CHIP	330	5%	1/10W
R415	1-216-119-00	METAL CHIP	820K	5%	1/10W
R451	1-216-025-00	METAL GLAZE	100	5%	1/10W
R454	1-216-186-00	METAL GLAZE	330	5%	1/8W
R455	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R456	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R457	1-216-073-00	METAL CHIP	10K	5%	1/10W
R458	1-216-073-00	METAL CHIP	10K	5%	1/10W
R602	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R603	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R604	1-216-073-00	METAL CHIP	10K	5%	1/10W
R605	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R606	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R609	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R610	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R611	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R612	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R615	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R616	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R619	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R620	1-216-089-00	METAL GLAZE	47K	5%	1/10W

MAIN
SERVO
**SEE ADDITIONAL
INFORMATION**

Ref. No.	Part No.	Description	Remark		
R621	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R622	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R623	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R625	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R651	1-216-107-00	METAL CHIP	270K	5%	1/10W
R652	1-216-119-00	METAL CHIP	820K	5%	1/10W
R653	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R654	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R656	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R710	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R711	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R712	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R721	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R724	1-216-109-00	METAL CHIP	330K	5%	1/10W
R728	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R729	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R731	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R732	1-239-444-11	NETWORK RESISTOR (CHIP)			220K
R751	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R752	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R753	1-216-073-00	METAL CHIP	10K	5%	1/10W
R754	1-216-025-00	METAL GLAZE	100	5%	1/10W
R755	1-216-809-11	METAL CHIP	100	5%	1/16W
R756	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R757	1-216-017-00	METAL GLAZE	47	5%	1/10W
R758	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R759	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R761	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R762	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R771	1-216-113-00	METAL CHIP	470K	5%	1/10W
R904	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R908	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R909	1-216-073-00	METAL CHIP	10K	5%	1/10W
R910	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R911	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R912	1-216-081-00	METAL CHIP	22K	5%	1/10W
R913	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R914	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R915	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R916	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R917	1-216-025-00	METAL GLAZE	100	5%	1/10W
R918	1-216-025-00	METAL GLAZE	100	5%	1/10W
R920	1-216-025-00	METAL GLAZE	100	5%	1/10W
R921	1-216-025-00	METAL GLAZE	100	5%	1/10W
R922	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R923	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R924	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R925	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R927	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R928	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R929	1-208-462-41	METAL GLAZE	10K	2%	1/10W

Ref. No.	Part No.	Description	Remark		
R930	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R950	1-216-033-00	METAL CHIP	220	5%	1/10W
R951	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R952	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R953	1-216-073-00	METAL CHIP	10K	5%	1/10W
R954	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R955	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
< SWITCH >					
SW301	1-554-576-21	SWITCH, SLIDE (EQUALIZER)			
SW701	1-571-478-11	SWITCH, SLIDE (POWER SEL)			
SW901	1-692-431-21	SWITCH, TACTILE (RESET)			
< TUNER >					
TU1	A-3282-012-A	TUNER UNIT			
< VIBRATOR >					
X1	1-577-126-51	VIBRATOR, CRYSTAL (7.2MHz)			
X401	1-579-280-31	VIBRATOR, CRYSTAL (16.9344MHz)			
X601	1-579-952-21	VIBRATOR, CERAMIC (8MHz)			
X701	1-760-489-11	VIBRATOR, CERAMIC (5MHz)			
X702	1-579-886-21	VIBRATOR, CRYSTAL (32.768kHz)			

*	A-3309-026-A	SERVO BOARD, COMPLETE			

< CAPACITOR >					
C1	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C2	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C3	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C101	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C102	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C105	1-111-253-11	TANTAL. CHIP	100uF	20%	6.3V
C106	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C107	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C108	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C109	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C110	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
C111	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C112	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C113	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C114	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C115	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V
C116	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C117	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C118	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C119	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C120	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V

Ref. No.	Part No.	Description	Remark		
C121	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C122	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C123	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C124	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C125	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C126	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C203	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C204	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C205	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C206	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C207	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C208	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C209	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C301	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C302	1-110-456-11	SOLID CHIP	47uF	20%	16V
C303	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C304	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C305	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C306	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C307	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C308	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C309	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V
C310	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C311	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C312	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C313	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C330	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C331	1-110-456-11	SOLID CHIP	47uF	20%	16V
C332	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C334	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C335	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C336	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
< CONNECTOR >					
CN1	1-764-616-12	HOUSING, CONNECTOR(PC BOARD) 30P			
CN2	1-766-491-11	CONNECTOR, FPC 17P			
CN3	1-764-439-21	CONNECTOR, FPC 11P			
CN4	1-770-347-21	CONNECTOR, FPC 6P			
CN5	1-569-775-21	PIN, CONNECTOR 5P			
CN6	1-580-055-21	PIN, CONNECTOR 2P			
< IC >					
IC1	8-752-069-29	IC	CXA1791N		
IC2	8-752-369-78	IC	CXD2545Q		
IC3	8-752-373-27	IC	CXD2512AQ		
IC4	8-759-342-14	IC	HM514400BLTT-7		
IC5	8-752-871-25	IC	CXP84332-017Q		
IC6	8-759-823-87	IC	LB1638M		

Ref. No.	Part No.	Description	Remark		
IC7	8-759-370-18	IC BA6797FP-E2			
IC8	8-759-349-32	IC BA6840AFS-T1			
< COIL >					
L101	1-412-060-11	INDUCTOR CHIP	22uH		
L102	1-412-060-11	INDUCTOR CHIP	22uH		
L103	1-412-060-11	INDUCTOR CHIP	22uH		
< TRANSISTOR >					
Q1	8-729-901-05	TRANSISTOR	DTA124EK		
Q2	8-729-011-95	TRANSISTOR	RN-2426		
Q3	8-729-141-48	TRANSISTOR	2SB624-BV345		
< RESISTOR >					
R101	1-216-295-00	CONDUCTOR, CHIP	(2012)		
R102	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R103	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R104	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R105	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R106	1-216-001-00	METAL CHIP	10	5%	1/10W
R108	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R109	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R110	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R111	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R112	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R113	1-216-073-00	METAL CHIP	10K	5%	1/10W
R114	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R115	1-216-073-00	METAL CHIP	10K	5%	1/10W
R116	1-216-073-00	METAL CHIP	10K	5%	1/10W
R117	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R118	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R119	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R120	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R121	1-216-073-00	METAL CHIP	10K	5%	1/10W
R122	1-216-033-00	METAL CHIP	220	5%	1/10W
R123	1-216-033-00	METAL CHIP	220	5%	1/10W
R124	1-216-033-00	METAL CHIP	220	5%	1/10W
R125	1-216-085-00	METAL CHIP	33K	5%	1/10W
R127	1-216-033-00	METAL CHIP	220	5%	1/10W
R129	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R132	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R133	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R140	1-216-073-00	METAL CHIP	10K	5%	1/10W
R141	1-216-081-00	METAL CHIP	22K	5%	1/10W
R142	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R143	1-216-085-00	METAL CHIP	33K	5%	1/10W
R203	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R204	1-216-073-00	METAL CHIP	10K	5%	1/10W
R207	1-216-065-00	METAL CHIP	4.7K	5%	1/10W

SERVO
SUB

Ref. No.	Part No.	Description	Remark
R208	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R209	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R210	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R211	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R212	1-216-295-00	CONDUCTOR, CHIP	(2012)
R213	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R217	1-216-081-00	METAL CHIP	22K 5% 1/10W
R218	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R301	1-216-025-00	METAL GLAZE	100 5% 1/10W
R302	1-216-037-00	METAL CHIP	330 5% 1/10W
R303	1-216-308-00	METAL CHIP	4.7 5% 1/10W
R304	1-208-814-11	METAL CHIP	22K 0.50% 1/10W
R305	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R306	1-208-814-11	METAL CHIP	22K 0.50% 1/10W
R307	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R308	1-208-814-11	METAL CHIP	22K 0.50% 1/10W
R309	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R310	1-208-814-11	METAL CHIP	22K 0.50% 1/10W
R311	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R312	1-216-085-00	METAL CHIP	33K 5% 1/10W
R313	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R314	1-216-103-00	METAL GLAZE	180K 5% 1/10W
R315	1-216-085-00	METAL CHIP	33K 5% 1/10W
R316	1-208-814-11	METAL CHIP	22K 0.50% 1/10W
R317	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R318	1-208-814-11	METAL CHIP	22K 0.50% 1/10W
R319	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R320	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R330	1-216-085-00	METAL CHIP	33K 5% 1/10W
R331	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R332	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R333	1-217-671-11	METAL CHIP	1 5% 1/10W

< VIBRATOR >

X1 1-760-365-11 VIBRATOR, CERAMIC (10MHz)

* 1-659-834-11 SUB BOARD

< CONNECTOR >

CN1 1-770-347-21 CONNECTOR, FPC 6P

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

12	1-776-207-31	CORD (WITH CONNECTOR) (POWER)	
14	1-751-000-21	CORD (WITH CONNECTOR) (LINE OUT)	
205	1-659-880-11	MOTOR FLEXIBLE BOARD	
△208	8-848-402-02	OPTICAL PICK-UP KSS-520A	
209	1-659-881-11	PICK-UP FLEXIBLE BOARD	
F1	1-532-982-11	FUSE (BRADE TYPE) (AUTO FUSE) (15A)	
M901	X-3371-665-1	MOTOR ASSY (SPINDLE)	
M902	A-3291-574-A	MOTOR ASSY, SLED	
M903	A-3291-576-A	MOTOR SUB ASSY, LO (LOADING)	

HARDWARE LIST

#1	7-621-773-95	SCREW +PTT 2.6X6 (S)
#2	7-621-772-10	SCREW +B 2X4
#3	7-621-773-86	SCREW +PTT 2.6X4 (S)
#4	7-621-255-25	SCREW +P 2X4
#5	7-621-770-XX	SCREW +PTT 2.6X8 (S)
#6	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT
#7	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3
#8	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3
#9	7-627-000-00	SCREW, PRECISION +P 1.7X2.2 TYPE 3
#10	7-627-850-28	SCREW, PRECISION +P 1.4X3

ACCESSORIES & PACKING MATERIALS

1-473-067-31	REMOTE COMMANDER (RM-X2S)
1-776-207-31	CORD (WITH CONNECTOR) (POWER)
3-856-120-11	MANUAL, INSTRUCTION (ENGLISH)
3-856-121-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH)
X-3369-665-1	CASE ASSY

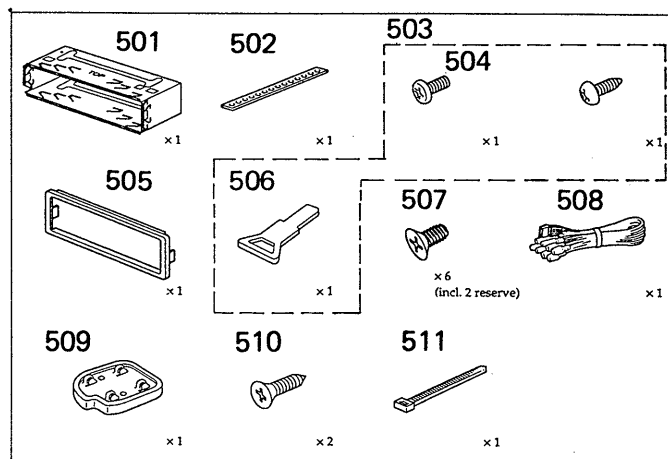
The components identified by
mark △ or dotted line with mark.
△ are critical for safety.
Replace only with part number
specified.

Ref.No.	Part No.	Description	Remark
---------	----------	-------------	--------

MOUNTING HARDWARE

- | | | | |
|-------|--------------|-------------------------------|--|
| * 501 | 3-916-161-01 | FRAME, FITTING | |
| 502 | | Not supplied | |
| 503 | X-3370-076-1 | SCREW ASSY (U. KEY), FITTING | |
| 504 | 7-682-560-04 | SCREW +P4X6 | |
| 505 | 3-932-910-01 | COLLAR | |
| 506 | 3-388-078-01 | KEY | |
| 507 | X-3371-913-1 | SCREW ASSY (J) | |
| 508 | 1-776-207-31 | CORD (WITH CONNECTOR) (POWER) | |
| 509 | X-3369-817-1 | BRACKET ASSY | |
| 510 | 7-685-248-14 | SCREW +KTP 3X12 TYPE 4 | |

511 Not supplied



CDX-C710

SONY SERVICE MANUAL

US Model

SUPPLEMENT-1

File this supplement with the service manual.

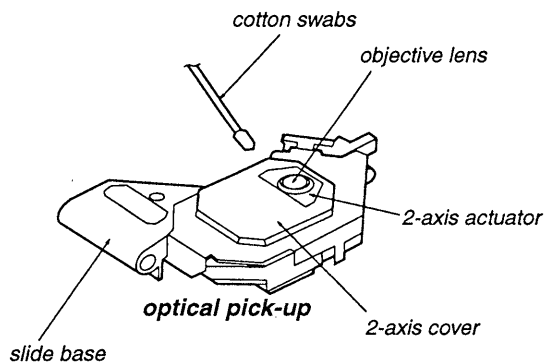
Subject:

Notes on Cleaning The Objective Lens

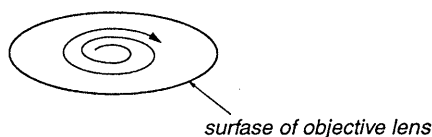
1. Change of Main Board (Suffix: -12)
2. Change of Main Board (Suffix: -13, -14)

(ECN-CS600278, 602634)

NOTES ON CLEANING THE OBJECTIVE LENS



Apply CD lens cleaner B-4 (Part No.: J-2501-000-A) to cotton swabs (narrow type) (Part No.: J-2501-023-A) to be lightly wet. Use a force (about 5 g (0.18 oz)) to make the objective lens in contact with the bottom lightly, and clean the lens by spirals as following below. Replace the cotton swab and repeat this cleaning two or three times.



Notes:

Do not force to push the objective lens. Otherwise, the plate spring supporting the objective lens will be bent, causing a deteriorated RF waveform.

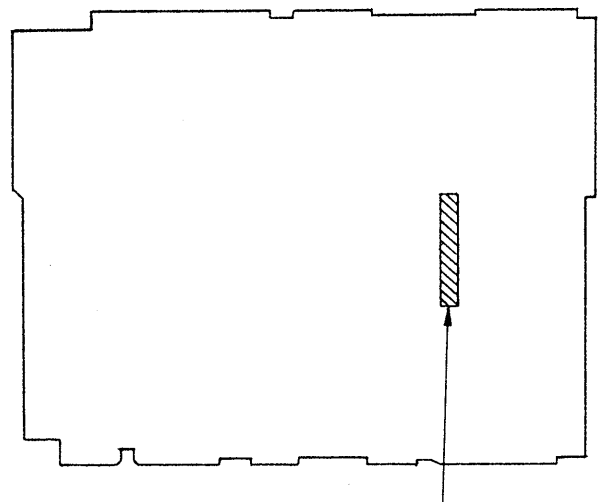
Never touch anything other than the objective lens. Otherwise, a significant deterioration occurs in the RF waveform.

CHANGE OF MAIN BOARD

MAIN board has been modified in the middle of production. This supplement-1 contains the printed wiring board, the schematic diagram and the electrical parts list for the new type.

• **New/Former Discrimination**

[MAIN BOARD] (Component Side)



1-660-941-12
1-660-941-13, -14

TABLE OF CONTENTS

1. CHANGE OF MAIN BOARD (Suffix:-12)

1-1. Electrical Parts List (Suffix: -12)	3
1-2. Printed Wiring Board – Main Section – (Suffix: -12)	9
1-3. Schematic Diagram – Main Section – (Suffix: -12)	13

2. CHANGE OF MAIN BOARD (Suffix:-13, -14)

2-1. Schematic Diagram – Main Section – (Suffix: -13, -14)	17
2-2. Printed Wiring Board – Main Section – (Suffix: -13, -14)	21
2-3. Electrical Parts List (Suffix: -13, -14)	25

1. CHANGE OF MAIN BOARD (Suffix:-12)

1-1. ELECTRICAL PARTS LIST (Suffix:-12)

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.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA ... μ A. uPA... μ PA..
uPB... μ PB. uPC... μ PC. uPD... μ PD..
- CAPACITORS
uF: μ F
- COILS
uH: μ H

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-3309-113-A	MAIN BOARD, COMPLETE		C59	1-107-682-11	CERAMIC CHIP	1uF 10% 16V
		*****		C63	1-107-682-11	CERAMIC CHIP	1uF 10% 16V
*	3-932-893-01	BRACKET (IC)		C65	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V
*	3-932-909-01	SINK (IC), HEAT		C69	1-107-682-11	CERAMIC CHIP	1uF 10% 16V
		< CAPACITOR >		C102	1-126-161-11	ELECT	2.2uF 20% 50V
C1	1-163-235-11	CERAMIC CHIP	22PF 5% 50V	C103	1-104-329-11	CERAMIC CHIP	0.1uF 10% 50V
C2	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C105	1-163-063-00	CERAMIC CHIP	0.022uF 10% 50V
C4	1-124-589-11	ELECT	47uF 20% 16V	C106	1-124-257-00	ELECT	2.2uF 20% 50V
C5	1-164-182-11	CERAMIC CHIP	0.0033uF 10% 50V	C107	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V
C6	1-136-169-00	FILM	0.22uF 5% 50V	C108	1-163-017-00	CERAMIC CHIP	0.0047uF 5% 50V
C7	1-115-326-91	FILM	0.1uF 5% 50V	C109	1-104-946-11	ELECT	10uF 20% 35V
C12	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C110	1-163-017-00	CERAMIC CHIP	0.0047uF 5% 50V
C13	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C111	1-104-946-11	ELECT	10uF 20% 35V
C14	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C112	1-164-489-11	CERAMIC CHIP	0.22uF 10% 16V
C15	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C113	1-104-946-11	ELECT	10uF 20% 35V
C16	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	C114	1-104-946-11	ELECT	10uF 20% 35V
C17	1-124-589-11	ELECT	47uF 20% 16V	C116	1-126-288-11	ELECT	4.7uF 20% 16V
C18	1-163-237-11	CERAMIC CHIP	27PF 5% 50V	C117	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
C19	1-163-237-11	CERAMIC CHIP	27PF 5% 50V	C118	1-126-288-11	ELECT	4.7uF 20% 16V
C20	1-126-933-11	ELECT	100uF 20% 10V	C119	1-126-288-11	ELECT	4.7uF 20% 16V
C21	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C120	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
C22	1-126-933-11	ELECT	100uF 20% 10V	C121	1-126-288-11	ELECT	4.7uF 20% 16V
C23	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C122	1-104-945-11	ELECT	4.7uF 20% 35V
C24	1-126-933-11	ELECT	100uF 20% 10V	C123	1-104-945-11	ELECT	4.7uF 20% 35V
C25	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C124	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
C32	1-164-346-11	CERAMIC CHIP	1uF 16V	C125	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
C33	1-124-455-00	ELECT	100uF 20% 16V	C126	1-115-326-91	FILM	0.1uF 5% 50V
C37	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V	C127	1-115-326-91	FILM	0.1uF 5% 50V
C38	1-124-234-00	ELECT	22uF 20% 16V	C128	1-115-326-91	FILM	0.1uF 5% 50V
C39	1-164-222-11	CERAMIC CHIP	0.22uF 25V	C129	1-115-326-91	FILM	0.1uF 5% 50V
C51	1-164-343-11	CERAMIC CHIP	0.056uF 10% 25V	C130	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
C52	1-164-489-11	CERAMIC CHIP	0.22uF 10% 16V	C131	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
C53	1-107-682-11	CERAMIC CHIP	1uF 10% 16V	C132	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
C55	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V	C133	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
				C202	1-126-161-11	ELECT	2.2uF 20% 50V

MAIN

(Suffix:-12)

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C203	1-104-329-11	CERAMIC CHIP	0. 1uF	10%	50V	C327	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C205	1-163-063-00	CERAMIC CHIP	0. 022uF	10%	50V	C328	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C206	1-124-257-00	ELECT	2. 2uF	20%	50V	C329	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C207	1-163-809-11	CERAMIC CHIP	0. 047uF	10%	25V	C330	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C208	1-163-017-00	CERAMIC CHIP	0. 0047uF	5%	50V	C331	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C209	1-104-946-11	ELECT	10uF	20%	35V	C399	1-164-505-11	CERAMIC CHIP	2. 2uF		16V
C210	1-163-017-00	CERAMIC CHIP	0. 0047uF	5%	50V	C402	1-104-952-11	ELECT	22uF	20%	16V
C211	1-104-946-11	ELECT	10uF	20%	35V	C404	1-104-952-11	ELECT	22uF	20%	16V
C212	1-164-489-11	CERAMIC CHIP	0. 22uF	10%	16V	C405	1-165-319-11	CERAMIC CHIP	0. 1uF		50V
C213	1-104-946-11	ELECT	10uF	20%	35V	C406	1-165-319-11	CERAMIC CHIP	0. 1uF		50V
C214	1-104-946-11	ELECT	10uF	20%	35V	C407	1-165-319-11	CERAMIC CHIP	0. 1uF		50V
C216	1-126-288-11	ELECT	4. 7uF	20%	16V	C408	1-165-319-11	CERAMIC CHIP	0. 1uF		50V
C217	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V	C409	1-128-428-11	ELECT	10uF	20%	35V
C218	1-126-288-11	ELECT	4. 7uF	20%	16V	C410	1-128-428-11	ELECT	10uF	20%	35V
C219	1-126-288-11	ELECT	4. 7uF	20%	16V	C411	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C220	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V	C412	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C221	1-126-288-11	ELECT	4. 7uF	20%	16V	C413	1-165-319-11	CERAMIC CHIP	0. 1uF		50V
C222	1-104-945-11	ELECT	4. 7uF	20%	35V	C414	1-163-215-00	CERAMIC CHIP	0. 0027uF	5%	50V
C223	1-104-945-11	ELECT	4. 7uF	20%	35V	C415	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C224	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V	C416	1-163-215-00	CERAMIC CHIP	0. 0027uF	5%	50V
C225	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V	C417	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C226	1-115-326-91	FILM	0. 1uF	5%	50V	C418	1-163-077-00	CERAMIC CHIP	0. 1uF	10%	25V
C227	1-115-326-91	FILM	0. 1uF	5%	50V	C419	1-104-329-11	CERAMIC CHIP	0. 1uF	10%	50V
C228	1-115-326-91	FILM	0. 1uF	5%	50V	C420	1-128-428-11	ELECT	10uF	20%	35V
C229	1-115-326-91	FILM	0. 1uF	5%	50V	C421	1-162-915-11	CERAMIC CHIP	10PF	0. 5PF	50V
C230	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V	C422	1-162-915-11	CERAMIC CHIP	10PF	0. 5PF	50V
C231	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V	C423	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C232	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V	C424	1-104-945-11	ELECT	4. 7uF	20%	35V
C233	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V	C451	1-165-319-11	CERAMIC CHIP	0. 1uF		50V
C301	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V	C452	1-124-455-00	ELECT	100uF	20%	16V
C302	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	C453	1-124-455-00	ELECT	100uF	20%	16V
C303	1-126-277-11	ELECT	100uF	20%	10V	C454	1-164-004-11	CERAMIC CHIP	0. 1uF	10%	25V
C304	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	C455	1-164-004-11	CERAMIC CHIP	0. 1uF	10%	25V
C305	1-107-889-11	ELECT	220uF	20%	10V	C458	1-126-277-11	ELECT	100uF	20%	10V
C306	1-124-234-00	ELECT	22uF	20%	16V	C601	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C307	1-164-346-11	CERAMIC CHIP	1uF		16V	C602	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C308	1-164-232-11	CERAMIC CHIP	0. 01uF		50V	C603	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C309	1-128-241-11	ELECT	220uF	20%	10V	C604	1-163-063-00	CERAMIC CHIP	0. 022uF	10%	50V
C310	1-128-241-11	ELECT	220uF	20%	10V	C607	1-126-154-11	ELECT	47uF	20%	6. 3V
C311	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	C608	1-163-037-11	CERAMIC CHIP	0. 022uF	10%	25V
C312	1-126-163-11	ELECT	4. 7uF	20%	50V	C651	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C313	1-124-257-00	ELECT	2. 2uF	20%	50V	C652	1-164-161-11	CERAMIC CHIP	0. 0022uF	10%	100V
C318	1-164-232-11	CERAMIC CHIP	0. 01uF		50V	C701	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C320	1-164-232-11	CERAMIC CHIP	0. 01uF		50V	C702	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C321	1-164-232-11	CERAMIC CHIP	0. 01uF		50V	C703	1-126-154-11	ELECT	47uF	20%	6. 3V
C322	1-164-232-11	CERAMIC CHIP	0. 01uF		50V	C704	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C324	1-115-469-21	CAPACITOR	4700uF		16V	C705	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C325	1-115-326-91	FILM	0. 1uF	5%	50V	C706	1-163-037-11	CERAMIC CHIP	0. 022uF	10%	25V

Ref.No.	Part No.	Description	Remark
C751	1-163-038-00	CERAMIC CHIP 0. 1uF	25V
C752	1-163-038-00	CERAMIC CHIP 0. 1uF	25V
C770	1-164-004-11	CERAMIC CHIP 0. 1uF	10% 25V
C771	1-163-038-00	CERAMIC CHIP 0. 1uF	25V
C901	1-164-505-11	CERAMIC CHIP 2. 2uF	16V
C902	1-126-157-11	ELECT 10uF	20% 16V
C903	1-163-037-11	CERAMIC CHIP 0. 022uF	10% 25V
C904	1-126-157-11	ELECT 10uF	20% 16V
C905	1-164-232-11	CERAMIC CHIP 0. 01uF	50V
C906	1-126-157-11	ELECT 10uF	20% 16V
C907	1-164-222-11	CERAMIC CHIP 0. 22uF	25V
C908	1-163-038-00	CERAMIC CHIP 0. 1uF	25V
C910	1-126-163-11	ELECT 4. 7uF	20% 50V
C911	1-126-301-11	ELECT 1uF	20% 50V
C912	1-125-701-11	CAPACITOR 0. 047uF	5. 5V
C913	1-124-455-00	ELECT 100uF	20% 16V
C914	1-164-004-11	CERAMIC CHIP 0. 1uF	10% 25V
C915	1-163-038-00	CERAMIC CHIP 0. 1uF	25V
C951	1-163-037-11	CERAMIC CHIP 0. 022uF	10% 25V
C952	1-163-037-11	CERAMIC CHIP 0. 022uF	10% 25V

< CONNECTOR/JACK >

CNJ502	1-764-808-11	JACK (ANT IN)
CNJ901	1-566-822-41	JACK (REMOTE IN)
* CNP33	1-750-241-21	PIN, CONNECTOR (PC BOARD) 3P
CNP301	1-774-701-11	PIN, CONNECTOR 16P
CNP302	1-774-700-11	JACK, PIN 6P (SUB AUDIO IN/LINE OUT)
CNP504	1-764-617-12	PIN, CONNECTOR (PC BOARD) 30P
CNP751	1-580-907-31	PLUG, CONNECTOR
CNP901	1-764-422-11	PLUG, CONNECTOR 12P

< DIODE >

D1	8-719-981-59	DIODE FC805
D3	8-719-977-03	DIODE DTZ5. 6B
D4	1-519-504-11	DIODE GAP, DISCHARGE
D5	8-719-422-97	DIODE MA8091-M
D301	8-719-421-24	DIODE MA8039-H
D302	8-719-421-24	DIODE MA8039-H
D310	8-719-049-38	DIODE 1N5404TU
D312	8-719-053-18	DIODE 1SR154-400TE-25
D316	8-719-053-18	DIODE 1SR154-400TE-25
D451	8-719-422-97	DIODE MA8091-M
D452	8-719-977-03	DIODE DTZ5. 6B
D601	8-719-050-86	DIODE 1SS133T-91S
D701	8-719-404-46	DIODE MA110
D751	8-719-914-43	DIODE DAN202K
D752	8-719-422-64	DIODE MA8062-M
D753	8-719-422-64	DIODE MA8062-M
D754	8-719-977-12	DIODE DTZ6. 8B

Ref.No.	Part No.	Description	Remark
D755	8-719-422-64	DIODE	MA8062-M
D760	8-719-422-76	DIODE	MA8075-M
D901	8-719-109-97	DIODE	RD6. 8ES-B2
D902	8-719-801-78	DIODE	1SS184
D904	8-719-977-12	DIODE	DTZ6. 8B
D905	8-719-914-44	DIODE	DAP202K
D906	8-719-109-97	DIODE	RD6. 8ES-B2
D907	8-719-977-12	DIODE	DTZ6. 8B
D908	8-719-109-97	DIODE	RD6. 8ES-B2
D909	8-719-109-97	DIODE	RD6. 8ES-B2
D910	8-719-109-97	DIODE	RD6. 8ES-B2
D911	8-719-109-97	DIODE	RD6. 8ES-B2
D912	8-719-109-97	DIODE	RD6. 8ES-B2
D914	8-719-109-97	DIODE	RD6. 8ES-B2
D915	8-719-109-97	DIODE	RD6. 8ES-B2
D916	8-719-404-46	DIODE	MA110
D920	8-719-053-18	DIODE	1SR154-400TE-25
D921	8-719-053-18	DIODE	1SR154-400TE-25
D922	8-719-022-90	DIODE	MA8160M
D925	8-719-404-46	DIODE	MA110
D951	8-719-914-44	DIODE	DAP202K
D952	8-719-423-23	DIODE	MA8110-M
D954	8-719-914-43	DIODE	DAN202K
D955	8-719-404-46	DIODE	MA110

< FERRITE BEAD >

FB402	1-500-244-21	BEAD, FERRITE (CHIP)
-------	--------------	----------------------

< IC >

IC2	8-759-711-82	IC NJM4580E
IC3	8-759-823-81	IC LC7216M
IC201	8-759-711-82	IC NJM4580E
IC202	8-759-711-82	IC NJM4580E
IC301	8-752-075-48	IC CXA1946AQ-T6
IC302	8-759-262-37	IC TA2050F (EL)
IC303	8-759-262-37	IC TA2050F (EL)
IC304	8-759-369-41	IC HA13155
IC401	8-759-185-27	IC PCM1710U-A
IC402	8-759-700-94	IC NJM5532M-T1
IC455	8-759-711-58	IC NJM78L05UA
IC601	8-759-428-05	IC MN1883220S4B3
IC701	8-759-387-69	IC uPD78058GC-175-3B9
IC751	8-759-096-16	IC MM1175XFF
IC901	8-759-347-49	IC BA3918-V2
IC902	8-759-097-36	IC RH5VA40AA
IC903	8-759-344-91	IC RN5VD23AA-TL

MAIN

(Suffix:-12)

Ref. No.	Part No.	Description	Remark
< CHIP CONDUCTOR >			
JC71	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC306	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC601	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC651	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC717	1-216-295-00	CONDUCTOR, CHIP	(2012)
< COIL >			
L1	1-410-973-11	INDUCTOR 22uH	
L300	1-411-670-11	COIL, CHOKE	
L601	1-410-973-11	INDUCTOR 22uH	
L701	1-410-973-11	INDUCTOR 22uH	
< TRANSISTOR >			
Q3	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q102	8-729-920-21	TRANSISTOR DTC314TKH04	
Q201	8-729-920-21	TRANSISTOR DTC314TKH04	
Q202	8-729-920-21	TRANSISTOR DTC314TKH04	
Q301	8-729-020-67	TRANSISTOR XN1A312-TX	
Q451	8-729-807-12	TRANSISTOR 2SD1802-S	
Q453	8-729-019-00	TRANSISTOR 2SD2394-G	
Q454	8-729-020-67	TRANSISTOR XN1A312-TX	
Q455	8-729-216-22	TRANSISTOR 2SA1162-G	
Q456	8-729-421-22	TRANSISTOR UN2211	
Q556	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q557	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q701	8-729-424-18	TRANSISTOR UN2113-TX	
Q751	8-729-402-13	TRANSISTOR XN1501	
Q752	8-729-424-08	TRANSISTOR UN2111	
Q760	8-729-421-22	TRANSISTOR UN2211	
Q761	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q900	8-729-421-22	TRANSISTOR UN2211	
Q902	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q951	8-729-020-67	TRANSISTOR XN1A312-TX	
Q952	8-729-019-00	TRANSISTOR 2SD2394-G	
Q953	8-729-106-60	TRANSISTOR 2SB1115A	
Q954	8-729-424-59	TRANSISTOR UN2212	
Q957	8-729-024-31	TRANSISTOR XN1111-TX	
< RESISTOR >			
R1	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R2	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R7	1-216-037-00	METAL CHIP 330 5% 1/10W	
R8	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R9	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R10	1-216-073-00	METAL CHIP 10K 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R13	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R14	1-216-222-00	METAL GLAZE 10K 5% 1/8W	
R16	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R17	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R18	1-216-029-00	METAL CHIP 150 5% 1/10W	
R19	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R51	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R53	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R54	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R55	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R56	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R57	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R62	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R63	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R64	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R65	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R66	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R67	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R100	1-216-238-00	METAL GLAZE 47K 5% 1/8W	
R103	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R104	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R109	1-216-033-00	METAL CHIP 220 5% 1/10W	
R110	1-216-033-00	METAL CHIP 220 5% 1/10W	
R112	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R113	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R115	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R116	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R117	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R118	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R119	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R120	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R121	1-216-041-00	METAL CHIP 470 5% 1/10W	
R122	1-216-041-00	METAL CHIP 470 5% 1/10W	
R123	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
R124	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R125	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
R126	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R127	1-216-134-00	METAL CHIP 2.2 5% 1/8W	
R128	1-216-134-00	METAL CHIP 2.2 5% 1/8W	
R129	1-216-134-00	METAL CHIP 2.2 5% 1/8W	
R130	1-216-134-00	METAL CHIP 2.2 5% 1/8W	
R131	1-216-813-11	METAL CHIP 220 5% 1/16W	
R132	1-216-813-11	METAL CHIP 220 5% 1/16W	
R133	1-216-813-11	METAL CHIP 220 5% 1/16W	
R134	1-216-813-11	METAL CHIP 220 5% 1/16W	
R155	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R156	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R157	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	

Ref. No.	Part No.	Description	Remark		
R158	1-216-069-00	METAL CHIP	6. 8K	5%	1/10W
R160	1-216-089-00	METAL CHIP	47K	5%	1/10W
R161	1-216-841-11	METAL CHIP	47K	5%	1/16W
R200	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R203	1-216-073-00	METAL CHIP	10K	5%	1/10W
R204	1-216-073-00	METAL CHIP	10K	5%	1/10W
R209	1-216-033-00	METAL CHIP	220	5%	1/10W
R210	1-216-033-00	METAL CHIP	220	5%	1/10W
R212	1-216-081-00	METAL CHIP	22K	5%	1/10W
R213	1-216-081-00	METAL CHIP	22K	5%	1/10W
R215	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R216	1-216-825-11	METAL CHIP	2. 2K	5%	1/16W
R217	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
R218	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R219	1-216-825-11	METAL CHIP	2. 2K	5%	1/16W
R220	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
R221	1-216-041-00	METAL CHIP	470	5%	1/10W
R222	1-216-041-00	METAL CHIP	470	5%	1/10W
R223	1-216-849-11	METAL CHIP	220K	5%	1/16W
R224	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R225	1-216-849-11	METAL CHIP	220K	5%	1/16W
R226	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R227	1-216-134-00	METAL CHIP	2. 2	5%	1/8W
R228	1-216-134-00	METAL CHIP	2. 2	5%	1/8W
R229	1-216-134-00	METAL CHIP	2. 2	5%	1/8W
R230	1-216-134-00	METAL CHIP	2. 2	5%	1/8W
R253	1-216-069-00	METAL CHIP	6. 8K	5%	1/10W
R254	1-216-069-00	METAL CHIP	6. 8K	5%	1/10W
R255	1-216-081-00	METAL CHIP	22K	5%	1/10W
R256	1-216-081-00	METAL CHIP	22K	5%	1/10W
R260	1-216-089-00	METAL CHIP	47K	5%	1/10W
R261	1-216-089-00	METAL CHIP	47K	5%	1/10W
R270	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R271	1-216-218-00	METAL GLAZE	6. 8K	5%	1/8W
R272	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R273	1-216-218-00	METAL GLAZE	6. 8K	5%	1/8W
R301	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W
R302	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W
R303	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R304	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R305	1-216-073-00	METAL CHIP	10K	5%	1/10W
R333	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R401	1-216-210-00	METAL GLAZE	3. 3K	5%	1/8W
R402	1-216-210-00	METAL GLAZE	3. 3K	5%	1/8W
R403	1-216-210-00	METAL GLAZE	3. 3K	5%	1/8W
R404	1-216-210-00	METAL GLAZE	3. 3K	5%	1/8W
R405	1-216-210-00	METAL GLAZE	3. 3K	5%	1/8W
R406	1-216-210-00	METAL GLAZE	3. 3K	5%	1/8W
R407	1-216-222-00	METAL GLAZE	10K	5%	1/8W

Ref. No.	Part No.	Description	Remark		
R408	1-216-218-00	METAL GLAZE	6. 8K	5%	1/8W
R410	1-216-805-11	METAL CHIP	47	5%	1/16W
R411	1-216-864-11	METAL CHIP	0	5%	1/16W
R412	1-216-037-00	METAL CHIP	330	5%	1/10W
R413	1-216-037-00	METAL CHIP	330	5%	1/10W
R415	1-216-119-00	METAL CHIP	820K	5%	1/10W
R451	1-216-025-00	METAL GLAZE	100	5%	1/10W
R454	1-216-186-00	METAL GLAZE	330	5%	1/8W
R455	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R456	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R457	1-216-073-00	METAL CHIP	10K	5%	1/10W
R458	1-216-073-00	METAL CHIP	10K	5%	1/10W
R602	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R603	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R604	1-216-073-00	METAL CHIP	10K	5%	1/10W
R605	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R606	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R609	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R610	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R611	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R612	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R615	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R616	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R619	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R620	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R621	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R622	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R623	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W
R625	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R651	1-216-107-00	METAL CHIP	270K	5%	1/10W
R652	1-216-119-00	METAL CHIP	820K	5%	1/10W
R653	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R654	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R656	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R710	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R711	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R712	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R721	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R724	1-216-109-00	METAL CHIP	330K	5%	1/10W
R728	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R729	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R731	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R732	1-239-444-11	NETWORK RESISTOR (CHIP)			220K
R751	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R752	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R753	1-216-073-00	METAL CHIP	10K	5%	1/10W
R754	1-216-025-00	METAL GLAZE	100	5%	1/10W
R755	1-216-809-11	METAL CHIP	100	5%	1/16W

MAIN (Suffix:-12)

Ref. No.	Part No.	Description	Remark		
R756	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R757	1-216-017-00	METAL GLAZE	47	5%	1/10W
R758	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R759	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R761	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R762	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R771	1-216-113-00	METAL CHIP	470K	5%	1/10W
R904	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R908	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R909	1-216-073-00	METAL CHIP	10K	5%	1/10W
R910	1-216-206-00	METAL GLAZE	2. 2K	5%	1/8W
R911	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R912	1-216-081-00	METAL CHIP	22K	5%	1/10W
R913	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R914	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R915	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R916	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R917	1-216-025-00	METAL GLAZE	100	5%	1/10W
R918	1-216-025-00	METAL GLAZE	100	5%	1/10W
R920	1-216-025-00	METAL GLAZE	100	5%	1/10W
R921	1-216-025-00	METAL GLAZE	100	5%	1/10W
R922	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R923	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R924	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R925	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R927	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R928	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R929	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R930	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R950	1-216-033-00	METAL CHIP	220	5%	1/10W
R951	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R952	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R953	1-216-073-00	METAL CHIP	10K	5%	1/10W
R954	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R955	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W

< SWITCH >

SW301	1-554-576-21	SWITCH, SLIDE (EQUALIZER)
SW701	1-571-478-11	SWITCH, SLIDE (POWER SEL)
SW901	1-692-431-21	SWITCH, TACTILE (RESET)

< TUNER >

TU1	A-3282-012-A	TUNER UNIT
-----	--------------	------------

< VIBRATOR >

X1	1-577-126-51	VIBRATOR, CRYSTAL (7. 2MHz)
X401	1-579-280-31	VIBRATOR, CRYSTAL (16. 9344MHz)
X601	1-579-952-21	VIBRATOR, CERAMIC (8MHz)

Ref. No.	Part No.	Description	Remark
X701	1-760-489-11	VIBRATOR, CERAMIC (5MHz)	
X702	1-579-886-21	VIBRATOR, CRYSTAL (32. 768kHz)	

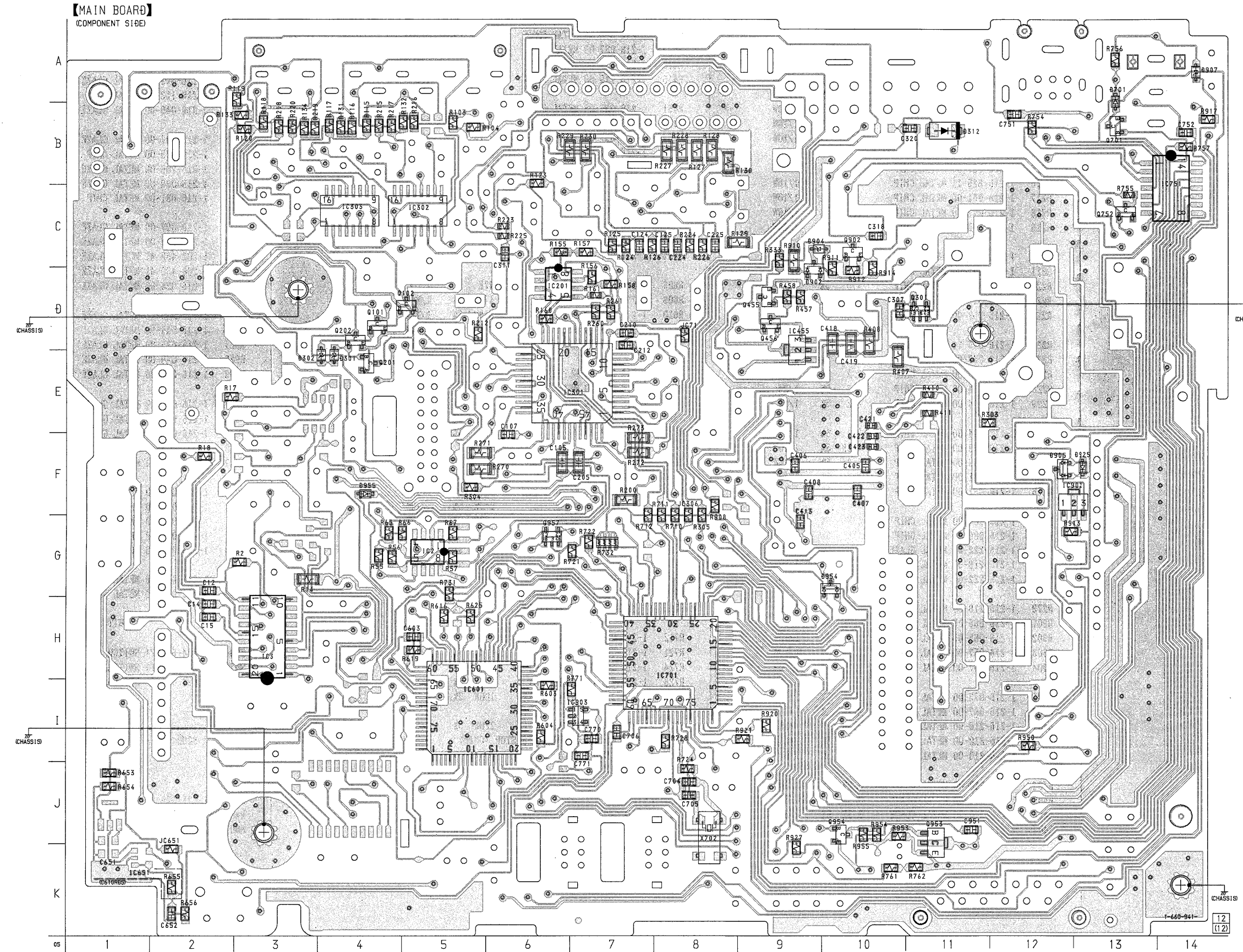
1-2. PRINTED WIRING BOARD – MAIN Section – (Suffix:-12)

• Semiconductor Location

Ref. No.	Location
D301	E-4
D302	E-3
D312	B-11
D701	A-13
D902	D-9
D904	C-9
D905	F-12
D907	A-14
D925	F-13
D954	G-10
D955	F-4
IC2	G-5
IC3	H-3
IC201	D-6
IC301	E-7
IC302	C-5
IC303	C-4
IC455	D-9
IC601	I-5
IC701	H-8
IC751	B-14
IC902	F-12
IC903	I-7
Q101	D-4
Q102	D-4
Q201	E-4
Q202	D-4
Q301	D-11
Q455	D-9
Q456	D-9
Q701	B-13
Q752	C-13
Q902	C-10
Q953	J-11
Q954	J-10
Q957	G-6

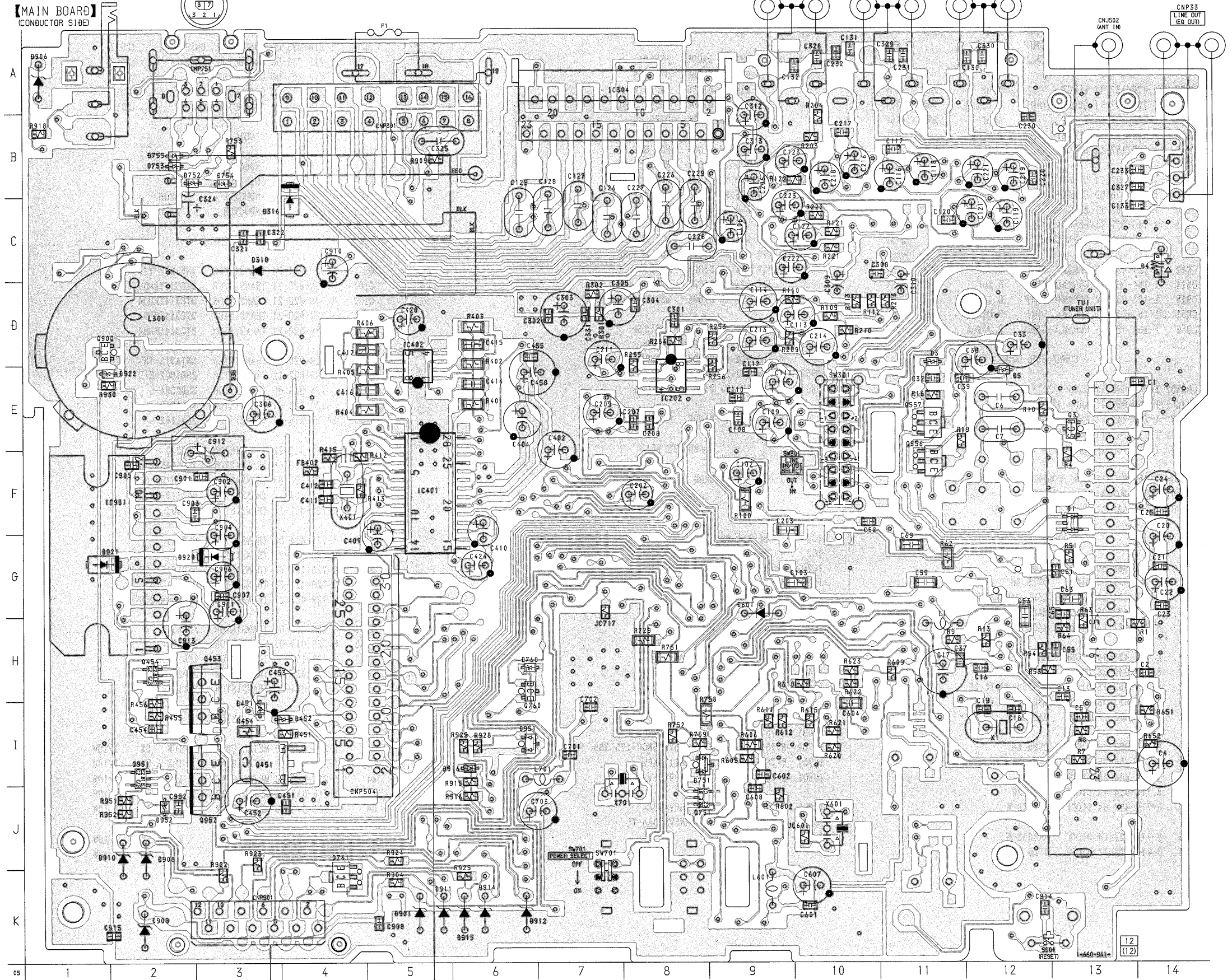
Note:
• : parts extracted from the component side.
• Δ : internal component.
• : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Caution:
Pattern face side: Parts on the pattern face side seen from (Conductor side) are indicated.
Parts face side: Parts on the parts face side seen from (Component side) are indicated.

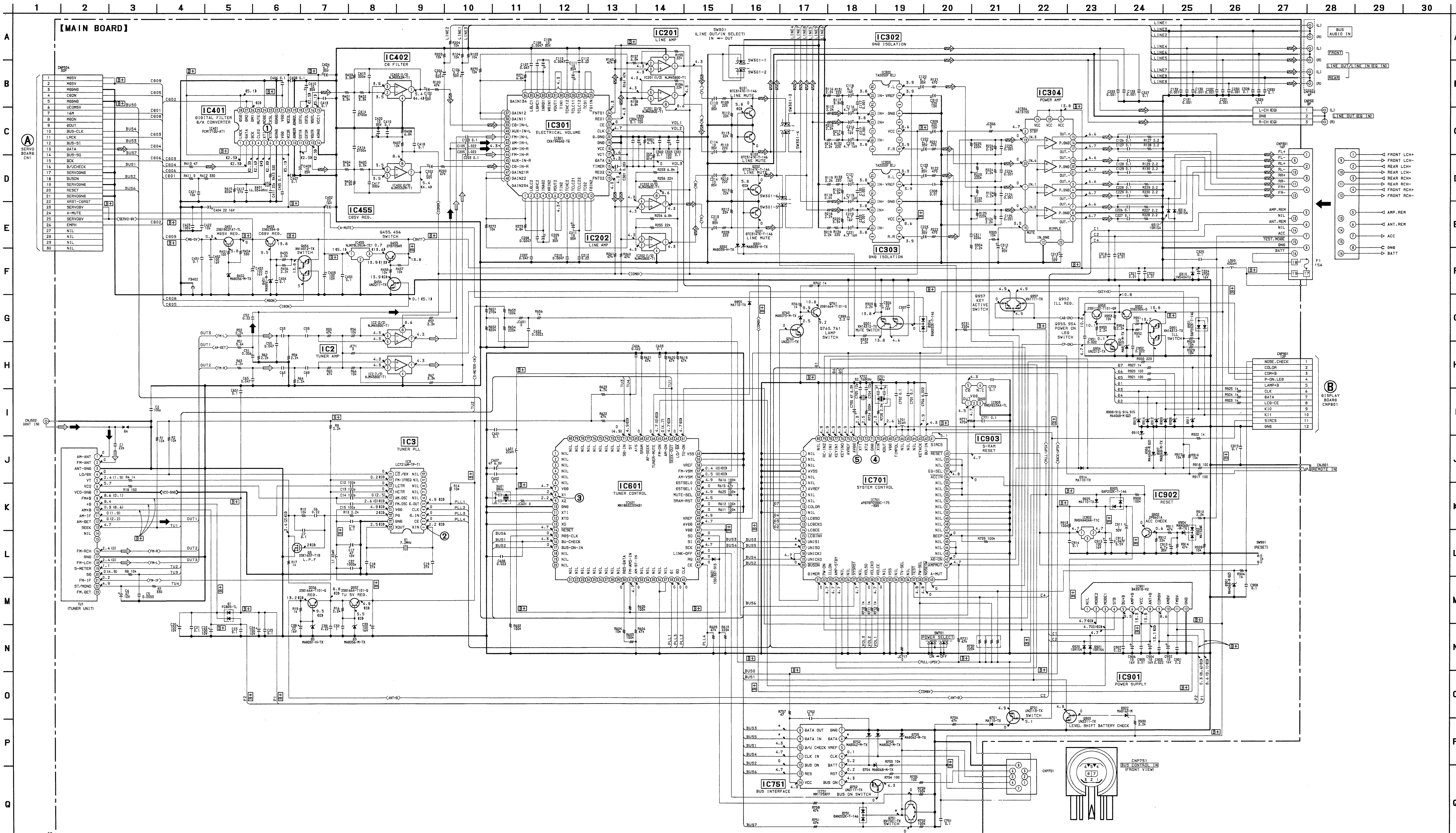


• Semiconductor Location

Ref. No.	Location
D1	F-13
D3	D-11
D4	C-14
D5	E-12
D310	C-3
D316	C-3
D451	I-3
D452	I-4
D601	G-9
D751	I-8
D752	B-2
D753	B-2
D754	B-3
D755	B-2
D760	H-6
D901	K-5
D906	A-1
D908	J-2
D909	K-2
D910	J-2
D911	K-5
D912	K-6
D914	K-6
D915	K-6
D916	I-6
D920	G-2
D921	G-1
D922	E-2
D951	I-6
D952	J-2
IC202	E-8
IC304	A-8
IC401	F-5
IC402	D-5
IC901	F-2
Q3	E-13
Q451	I-3
Q453	H-3
Q454	H-2
Q556	E-11
Q557	E-11
Q751	J-8
Q760	H-6
Q761	J-4
Q900	D-1
Q951	I-2
Q952	J-3

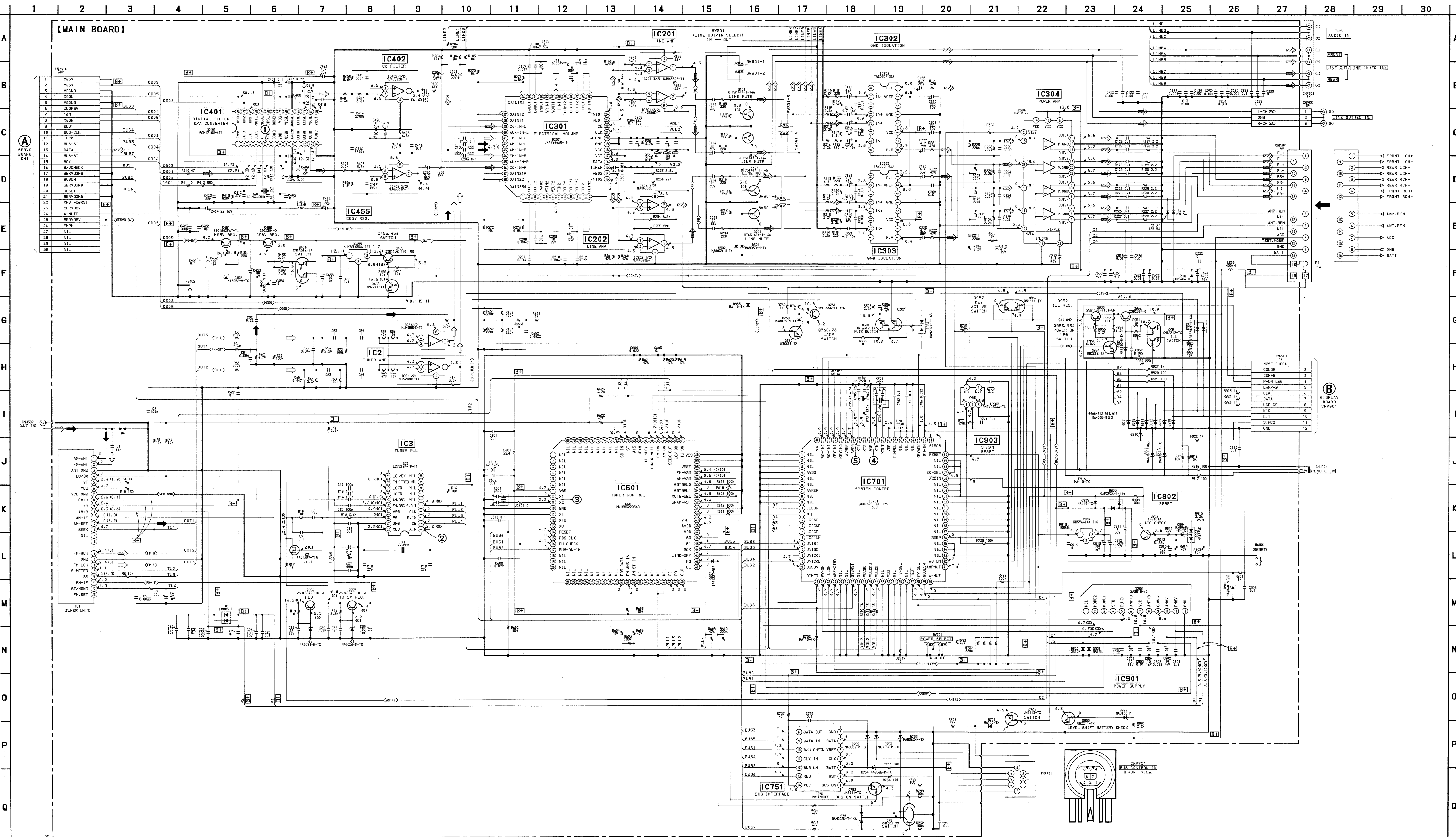


1-3. SCHEMATIC DIAGRAM - MAIN Section - (Suffix:-12)



Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- Δ : internal component.
- $\square$: B+ Line.
- $\square$: panel designation.
- $\square$: adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no-mark: FM
- (): AM
- << >>: CD
- * : Impossible to measure
- Voltages are taken with a VOM (10 MQ/V).
- Tolerances: 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.
- $\square$: FM
- $\square$: AM
- $\square$: CD



- Note:
- All capacitors are in μF unless otherwise noted. pF , μF , 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}\text{ W}$ or less unless otherwise specified.
 - Δ : internal component.
 - $\square$: B+ Line.
 - $\square$: panel designation.
 - $\square$: adjustment for repair.
 - Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
 - Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
 - no-mark: FM
 - () : AM
 - << >> : CD
 - * : impossible to measure
 - Voltages are taken with a VOM (10 M Ω /V).
 - Voltage variations may be noted due to normal production tolerances.
 - Waveforms are taken with an oscilloscope.
 - Voltage variations may be noted due to normal production tolerances.
 - Circled numbers refer to waveforms.
 - Signal path.
 - $\rightarrow$: FM
 - $\rightarrow$: AM
 - $\rightarrow$: CD

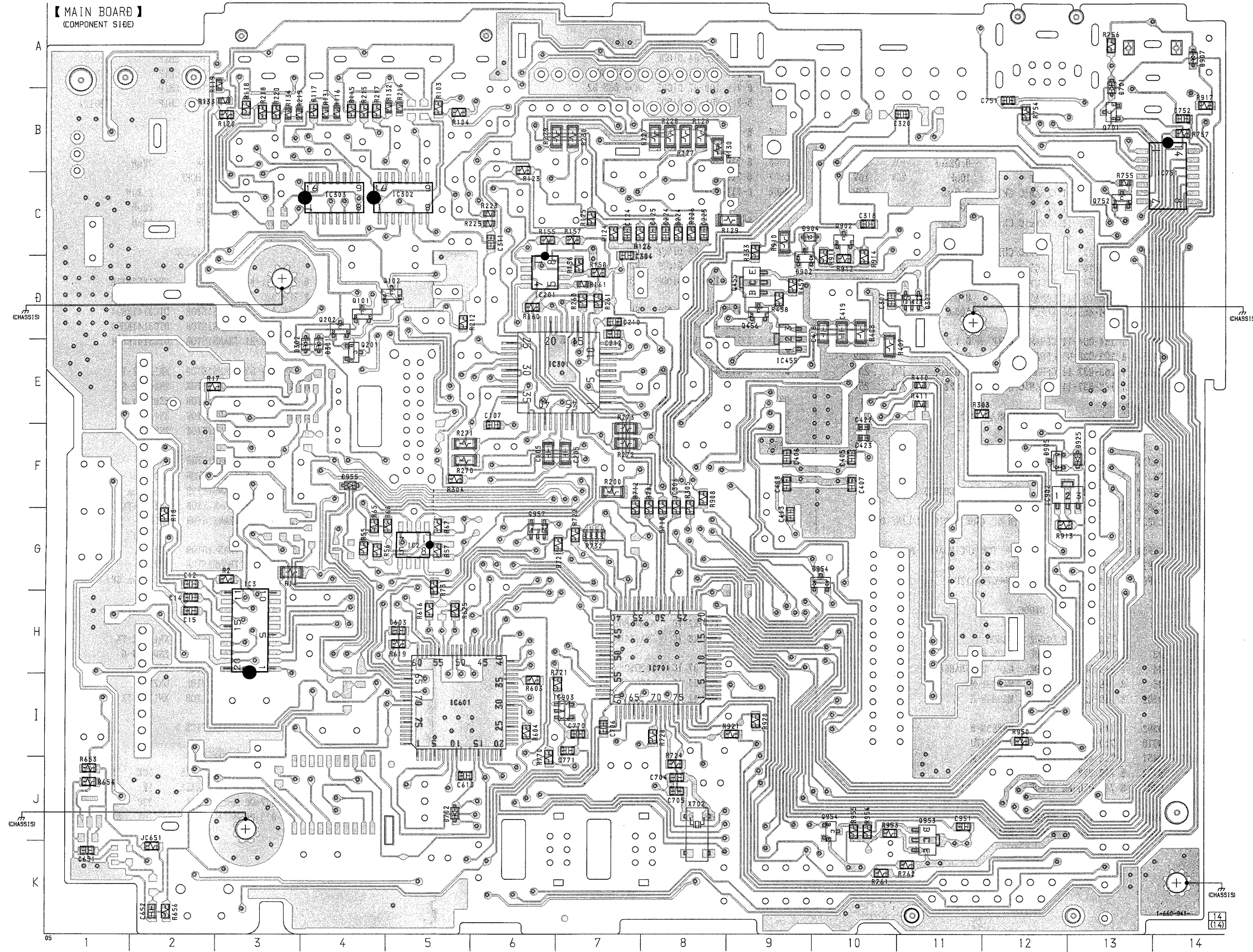
2-2. PRINTED WIRING BOARD – MAIN Section – (Suffix:-13, -14)

• Semiconductor Location

Ref. No.	Location
D301	E-4
D302	E-3
D312	B-11
D701	A-13
D902	D-9
D904	C-9
D905	F-12
D907	A-14
D925	F-13
D954	G-10
D955	F-4
IC2	G-5
IC3	H-3
IC201	D-6
IC301	E-7
IC302	C-5
IC303	C-4
IC455	D-9
IC601	I-5
IC701	H-8
IC751	B-14
IC902	F-12
IC903	I-7
Q101	D-4
Q102	D-4
Q201	E-4
Q202	D-4
Q301	D-11
Q455	D-9
Q456	D-9
Q701	B-13
Q752	C-13
Q902	C-10
Q953	J-11
Q954	J-10
Q957	G-6

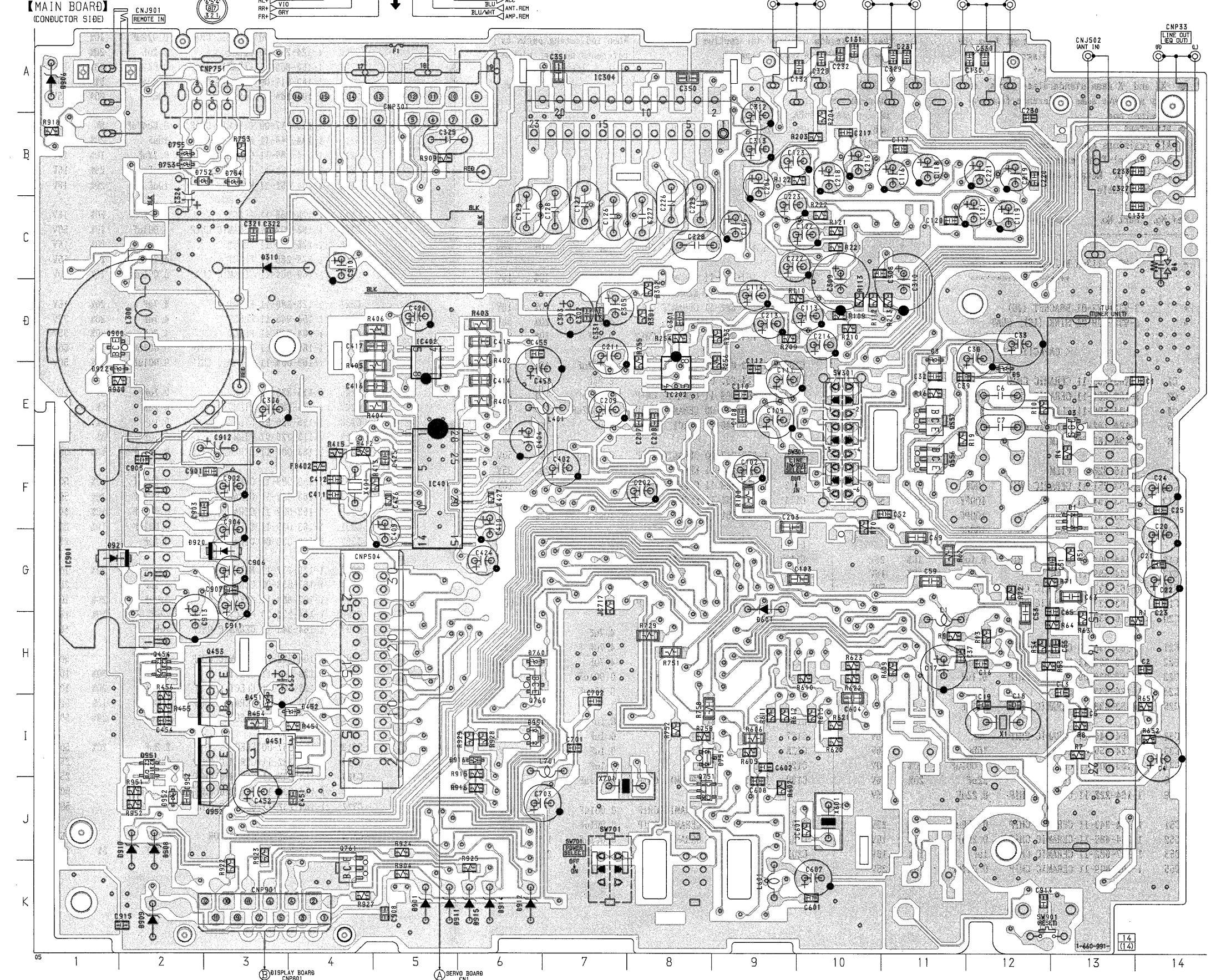
Note:
• : parts extracted from the component side.
• : internal component.
• : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Caution:
Pattern face side: Parts on the pattern face side seen from (Conductor side) the pattern face are indicated.
Parts face side: Parts on the parts face side seen from (Component side) the parts face are indicated.



• Semiconductor Location

Ref. No.	Location
D1	F-13
D3	D-11
D4	C-14
D5	E-12
D310	C-3
D451	I-3
D452	I-4
D601	H-9
D751	I-9
D752	B-2
D753	B-2
D754	B-3
D755	B-2
D760	H-6
D901	K-5
D906	A-1
D908	J-2
D909	K-2
D910	J-2
D911	K-5
D912	K-6
D914	K-6
D915	K-6
D916	I-6
D920	G-2
D921	G-1
D922	E-1
D951	I-6
D952	J-2
IC202	E-8
IC304	A-7
IC401	F-5
IC402	D-5
IC901	G-1
Q3	E-13
Q451	I-3
Q453	H-3
Q454	H-2
Q556	E-11
Q557	E-11
Q751	J-8
Q760	I-6
Q761	J-4
Q900	D-1
Q951	I-2
Q952	I-3



2-3. ELECTRICAL PARTS LIST (Suffix:-13, -14)

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.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA ... μ A. uPA... μ PA..
uPB... μ PB.. uPC... μ PC.. uPD... μ PD..
- CAPACITORS
uF: μ F
- COILS
uH: μ H

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-3309-113-A	MAIN BOARD, COMPLETE *****		C59	1-107-682-11	CERAMIC CHIP 1uF	10% 16V
*	3-932-893-01	BRACKET (IC)		C63	1-107-682-11	CERAMIC CHIP 1uF	10% 16V
*	3-932-909-01	SINK (IC), HEAT		C65	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
< CAPACITOR >				C69	1-107-682-11	CERAMIC CHIP 1uF	10% 16V
C1	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	C102	1-126-161-11	ELECT 2.2uF	20% 50V
C2	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C103	1-104-329-11	CERAMIC CHIP 0.1uF	10% 50V
C4	1-124-589-11	ELECT 47uF	20% 16V	C105	1-163-063-00	CERAMIC CHIP 0.022uF	10% 50V
C5	1-164-182-11	CERAMIC CHIP 0.0033uF	10% 50V	C106	1-124-257-00	ELECT 2.2uF	20% 50V
C6	1-136-169-00	FILM 0.22uF	5% 50V	C107	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C7	1-115-326-91	FILM 0.1uF	5% 50V	C108	1-163-017-00	CERAMIC CHIP 0.0047uF	5% 50V
C12	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C109	1-104-946-11	ELECT 10uF	20% 35V
C13	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C110	1-163-017-00	CERAMIC CHIP 0.0047uF	5% 50V
C14	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C111	1-104-946-11	ELECT 10uF	20% 35V
C15	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C112	1-164-489-11	CERAMIC CHIP 0.22uF	10% 16V
C16	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V	C113	1-104-951-11	ELECT 10uF	20% 16V
C17	1-124-589-11	ELECT 47uF	20% 16V	C114	1-104-951-11	ELECT 10uF	20% 16V
C18	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C116	1-126-288-11	ELECT 4.7uF	20% 16V
C19	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C117	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C20	1-126-933-11	ELECT 100uF	20% 10V	C118	1-126-288-11	ELECT 4.7uF	20% 16V
C21	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C119	1-126-288-11	ELECT 4.7uF	20% 16V
C22	1-126-933-11	ELECT 100uF	20% 10V	C120	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C23	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C121	1-126-288-11	ELECT 4.7uF	20% 16V
C24	1-126-933-11	ELECT 100uF	20% 10V	C122	1-104-945-11	ELECT 4.7uF	20% 35V
C25	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C123	1-104-945-11	ELECT 4.7uF	20% 35V
C32	1-164-346-11	CERAMIC CHIP 1uF	16V	C124	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C33	1-124-455-00	ELECT 100uF	20% 16V	C125	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C37	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V	C126	1-115-326-91	FILM 0.1uF	5% 50V
C38	1-124-234-00	ELECT 22uF	20% 16V	C127	1-115-326-91	FILM 0.1uF	5% 50V
C39	1-164-222-11	CERAMIC CHIP 0.22uF	25V	C128	1-115-326-91	FILM 0.1uF	5% 50V
C51	1-164-343-11	CERAMIC CHIP 0.056uF	10% 25V	C129	1-115-326-91	FILM 0.1uF	5% 50V
C52	1-164-489-11	CERAMIC CHIP 0.22uF	10% 16V	C130	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C53	1-107-682-11	CERAMIC CHIP 1uF	10% 16V	C131	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C55	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C132	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
				C133	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
				C202	1-126-161-11	ELECT 2.2uF	20% 50V

MAIN

(Suffix:-13, -14)

Ref. No.	Part No.	Description	Remark
C203	1-104-329-11	CERAMIC CHIP	0. 1uF 10% 50V
C205	1-163-063-00	CERAMIC CHIP	0. 022uF 10% 50V
C206	1-124-257-00	ELECT	2. 2uF 20% 50V
C207	1-163-809-11	CERAMIC CHIP	0. 047uF 10% 25V
C208	1-163-017-00	CERAMIC CHIP	0. 0047uF 5% 50V
C209	1-104-946-11	ELECT	10uF 20% 35V
C210	1-163-017-00	CERAMIC CHIP	0. 0047uF 5% 50V
C211	1-104-946-11	ELECT	10uF 20% 35V
C212	1-164-489-11	CERAMIC CHIP	0. 22uF 10% 16V
C213	1-104-951-11	ELECT	10uF 20% 16V
C214	1-104-951-11	ELECT	10uF 20% 16V
C216	1-126-288-11	ELECT	4. 7uF 20% 16V
C217	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C218	1-126-288-11	ELECT	4. 7uF 20% 16V
C219	1-126-288-11	ELECT	4. 7uF 20% 16V
C220	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C221	1-126-288-11	ELECT	4. 7uF 20% 16V
C222	1-104-945-11	ELECT	4. 7uF 20% 35V
C223	1-104-945-11	ELECT	4. 7uF 20% 35V
C224	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C225	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C226	1-115-326-91	FILM	0. 1uF 5% 50V
C227	1-115-326-91	FILM	0. 1uF 5% 50V
C228	1-115-326-91	FILM	0. 1uF 5% 50V
C229	1-115-326-91	FILM	0. 1uF 5% 50V
C230	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C231	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C232	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C233	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C301	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C302	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C303	1-126-277-11	ELECT	100uF 20% 10V
C304	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C305	1-107-889-11	ELECT	220uF 20% 10V
C306	1-124-234-00	ELECT	22uF 20% 16V
C307	1-164-346-11	CERAMIC CHIP	1uF 16V
C308	1-164-232-11	CERAMIC CHIP	0. 01uF 50V
C309	1-128-241-11	ELECT	220uF 20% 10V
C310	1-128-241-11	ELECT	220uF 20% 10V
C311	1-163-001-11	CERAMIC CHIP	220PF 10% 50V
C312	1-126-163-11	ELECT	4. 7uF 20% 50V
C313	1-124-257-00	ELECT	2. 2uF 20% 50V
C318	1-164-232-11	CERAMIC CHIP	0. 01uF 25V
C320	1-164-232-11	CERAMIC CHIP	0. 01uF 25V
C321	1-164-232-11	CERAMIC CHIP	0. 01uF 50V
C322	1-164-232-11	CERAMIC CHIP	0. 01uF 50V
C324	1-115-469-21	CAPACITOR	4700uF 16V
C325	1-115-326-91	FILM	0. 1uF 5% 50V

Ref. No.	Part No.	Description	Remark
C327	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C328	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C329	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C330	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C331	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C350	1-164-506-11	CERAMIC CHIP	4. 7uF 16V
C351	1-164-506-11	CERAMIC CHIP	4. 7uF 16V
C402	1-104-952-11	ELECT	22uF 20% 16V
C404	1-104-952-11	ELECT	22uF 20% 16V
C405	1-165-319-11	CERAMIC CHIP	0. 1uF 50V
C406	1-165-319-11	CERAMIC CHIP	0. 1uF 50V
C407	1-165-319-11	CERAMIC CHIP	0. 1uF 50V
C408	1-165-319-11	CERAMIC CHIP	0. 1uF 50V
C409	1-128-428-11	ELECT	10uF 20% 35V
C410	1-128-428-11	ELECT	10uF 20% 35V
C411	1-163-235-11	CERAMIC CHIP	22PF 5% 50V
C412	1-163-237-11	CERAMIC CHIP	27PF 5% 50V
C413	1-165-319-11	CERAMIC CHIP	0. 1uF 50V
C414	1-163-215-00	CERAMIC CHIP	0. 0027uF 5% 50V
C415	1-163-193-00	CERAMIC CHIP	330PF 5% 50V
C416	1-163-215-00	CERAMIC CHIP	0. 0027uF 5% 50V
C417	1-163-193-00	CERAMIC CHIP	330PF 5% 50V
C418	1-163-077-00	CERAMIC CHIP	0. 1uF 10% 25V
C419	1-104-329-11	CERAMIC CHIP	0. 1uF 10% 50V
C420	1-128-428-11	ELECT	10uF 20% 35V
C422	1-162-915-11	CERAMIC CHIP	10PF 0. 5PF 50V
C423	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C424	1-104-945-11	ELECT	4. 7uF 20% 35V
C425	1-163-239-11	CERAMIC CHIP	33PF 5% 50V
C426	1-165-128-11	CERAMIC CHIP	0. 22uF 16V
C427	1-165-128-11	CERAMIC CHIP	0. 22uF 16V
C451	1-165-319-11	CERAMIC CHIP	0. 1uF 50V
C452	1-124-455-00	ELECT	100uF 20% 16V
C453	1-124-455-00	ELECT	100uF 20% 16V
C454	1-164-004-11	CERAMIC CHIP	0. 1uF 10% 25V
C455	1-164-004-11	CERAMIC CHIP	0. 1uF 10% 25V
C458	1-126-277-11	ELECT	100uF 20% 10V
C601	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C602	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C603	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C604	1-163-063-00	CERAMIC CHIP	0. 022uF 10% 50V
C607	1-126-154-11	ELECT	47uF 20% 6. 3V
C608	1-163-037-11	CERAMIC CHIP	0. 022uF 10% 25V
C610	1-165-319-11	CERAMIC CHIP	0. 1uF 50V
C651	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C652	1-164-161-11	CERAMIC CHIP	0. 0022uF 10% 100V
C701	1-163-038-00	CERAMIC CHIP	0. 1uF 25V
C702	1-163-038-00	CERAMIC CHIP	0. 1uF 25V

Ref.No.	Part No.	Description	Remark		
C703	1-126-154-11	ELECT	47uF	20%	6.3V
C704	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C705	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C706	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C751	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C752	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C770	1-164-505-11	CERAMIC CHIP	2.2uF		10V
C771	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C901	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C902	1-126-157-11	ELECT	10uF	20%	16V
C903	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C904	1-126-157-11	ELECT	10uF	20%	16V
C905	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C906	1-126-157-11	ELECT	10uF	20%	16V
C907	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C908	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C910	1-126-163-11	ELECT	4.7uF	20%	50V
C911	1-126-301-11	ELECT	1uF	20%	50V
C912	1-125-701-11	CAPACITOR	0.047uF		5.5V
C913	1-124-455-00	ELECT	100uF	20%	16V
C914	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C915	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C951	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C952	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V

< CONNECTOR/JACK >

CNJ502 1-764-808-11 JACK (ANT IN)
 CNJ901 1-566-822-41 JACK (REMOTE IN)
 * CNP33 1-750-241-21 PIN, CONNECTOR (PC BOARD) 3P
 CNP301 1-774-701-11 PIN, CONNECTOR 16P
 CNP302 1-774-700-11 JACK, PIN 6P (SUB AUDIO IN/LINE OUT)

CNP504 1-764-617-12 PIN, CONNECTOR (PC BOARD) 30P
 CNP751 1-580-907-31 PLUG, CONNECTOR
 CNP901 1-764-422-11 PLUG, CONNECTOR 12P

< DIODE >

D1 8-719-981-59 DIODE FC805
 D3 8-719-977-03 DIODE DTZ5.6B
 D4 1-519-504-11 DIODE GAP, DISCHARGE
 D5 8-719-422-97 DIODE MA8091-M
 D301 8-719-421-24 DIODE MA8039-H
 D302 8-719-421-24 DIODE MA8039-H
 D310 8-719-049-38 DIODE 1N5404TU
 D451 8-719-422-97 DIODE MA8091-M
 D452 8-719-977-03 DIODE DTZ5.6B
 D601 8-719-050-86 DIODE 1SS133T-91S
 D701 8-719-404-46 DIODE MA110
 D702 8-719-404-46 DIODE MA110

Ref.No.	Part No.	Description	Remark
D751	8-719-914-43	DIODE DAN202K	
D752	8-719-422-64	DIODE MA8062-M	
D753	8-719-422-64	DIODE MA8062-M	
D754	8-719-977-12	DIODE DTZ6.8B	
D755	8-719-422-64	DIODE MA8062-M	
D760	8-719-422-76	DIODE MA8075-M	
D901	8-719-109-97	DIODE RD6.8ES-B2	
D902	8-719-801-78	DIODE 1SS184	
D904	8-719-977-12	DIODE DTZ6.8B	
D905	8-719-914-44	DIODE DAP202K	
D906	8-719-109-97	DIODE RD6.8ES-B2	
D907	8-719-977-12	DIODE DTZ6.8B	
D908	8-719-109-97	DIODE RD6.8ES-B2	
D909	8-719-109-97	DIODE RD6.8ES-B2	
D910	8-719-109-97	DIODE RD6.8ES-B2	
D911	8-719-109-97	DIODE RD6.8ES-B2	
D912	8-719-109-97	DIODE RD6.8ES-B2	
D914	8-719-109-97	DIODE RD6.8ES-B2	
D915	8-719-109-97	DIODE RD6.8ES-B2	
D916	8-719-404-46	DIODE MA110	
D920	8-719-053-18	DIODE 1SR154-400TE-25	
D921	8-719-053-18	DIODE 1SR154-400TE-25	
D922	8-719-022-90	DIODE MA8160M	
D925	8-719-404-46	DIODE MA110	
D951	8-719-914-44	DIODE DAP202K	
D952	8-719-423-23	DIODE MA8110-M	
D954	8-719-914-43	DIODE DAN202K	
D955	8-719-404-46	DIODE MA110	

< FERRITE BEAD >

FB402 1-500-244-21 BEAD, FERRITE (CHIP)

< IC >

IC2 8-759-711-82 IC NJM4580E
 IC3 8-759-823-81 IC LC7216M
 IC201 8-759-711-82 IC NJM4580E
 IC202 8-759-711-82 IC NJM4580E
 IC301 8-752-075-48 IC CXA1946AQ-T6
 IC302 8-759-262-37 IC TA2050F(EL)
 IC303 8-759-262-37 IC TA2050F(EL)
 IC304 8-759-369-41 IC HA13155
 IC401 8-759-185-27 IC PCM1710U-A
 IC402 8-759-700-94 IC NJM5532M-T1
 IC455 8-759-711-58 IC NJM78L05UA
 IC601 8-759-428-05 IC MN1883220S4B3
 IC701 8-759-387-69 IC uPD78058GC-175-3B9
 IC751 8-759-096-16 IC MM1175XFF
 IC901 8-759-347-49 IC BA3918-V2

MAIN

(Suffix:-13, -14)

Ref. No.	Part No.	Description	Remark
IC902	8-759-097-36	IC RH5VA40AA	
IC903	8-759-344-91	IC RN5VD23AA-TL	
< CHIP CONDUCTOR >			
JC306	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC601	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC651	1-216-295-00	CONDUCTOR, CHIP	(2012)
JC717	1-216-295-00	CONDUCTOR, CHIP	(2012)
< COIL >			
L1	1-410-973-11	INDUCTOR 22uH	
L300	1-411-670-11	COIL, CHOKE	
L401	1-410-967-11	INDUCTOR 2. 2uH	
L601	1-410-973-11	INDUCTOR 22uH	
L701	1-410-973-11	INDUCTOR 22uH	
< TRANSISTOR >			
Q3	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q102	8-729-920-21	TRANSISTOR DTC314TKH04	
Q201	8-729-920-21	TRANSISTOR DTC314TKH04	
Q202	8-729-920-21	TRANSISTOR DTC314TKH04	
Q301	8-729-020-67	TRANSISTOR XN1A312-TX	
Q451	8-729-807-12	TRANSISTOR 2SD1802-S	
Q453	8-729-019-00	TRANSISTOR 2SD2394-G	
Q454	8-729-020-67	TRANSISTOR XN1A312-TX	
Q455	8-729-106-60	TRANSISTOR 2SB1115A-YQ	
Q456	8-729-421-22	TRANSISTOR UN2211	
Q556	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q557	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q701	8-729-424-18	TRANSISTOR UN2113-TX	
Q751	8-729-402-13	TRANSISTOR XN1501	
Q752	8-729-424-08	TRANSISTOR UN2111	
Q760	8-729-421-22	TRANSISTOR UN2211	
Q761	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q900	8-729-421-22	TRANSISTOR UN2211	
Q902	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q951	8-729-020-67	TRANSISTOR XN1A312-TX	
Q952	8-729-019-00	TRANSISTOR 2SD2394-G	
Q953	8-729-106-60	TRANSISTOR 2SB1115A	
Q954	8-729-424-59	TRANSISTOR UN2212	
Q957	8-729-024-31	TRANSISTOR XN1111-TX	
< RESISTOR >			
R1	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R2	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R4	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R7	1-216-037-00	METAL CHIP 330 5% 1/10W	
R8	1-216-073-00	METAL CHIP 10K 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R9	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R10	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R13	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R14	1-216-222-00	METAL GLAZE 10K 5% 1/8W	
R16	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R17	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R18	1-216-029-00	METAL CHIP 150 5% 1/10W	
R19	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R51	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R53	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R54	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R55	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R56	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R57	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R62	1-216-214-00	METAL CHIP 4.7K 5% 1/8W	
R63	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R64	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R65	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R66	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R67	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R70	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R71	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R72	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R100	1-216-238-00	METAL GLAZE 47K 5% 1/8W	
R103	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R104	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R109	1-216-033-00	METAL CHIP 220 5% 1/10W	
R110	1-216-033-00	METAL CHIP 220 5% 1/10W	
R112	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R113	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R115	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R116	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R117	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R118	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R119	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R120	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R121	1-216-041-00	METAL CHIP 470 5% 1/10W	
R122	1-216-041-00	METAL CHIP 470 5% 1/10W	
R123	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
R124	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R125	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
R126	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R127	1-216-134-00	METAL CHIP 2.2 5% 1/8W	
R128	1-216-134-00	METAL CHIP 2.2 5% 1/8W	
R129	1-216-134-00	METAL CHIP 2.2 5% 1/8W	
R130	1-216-134-00	METAL CHIP 2.2 5% 1/8W	
R131	1-216-813-11	METAL CHIP 220 5% 1/16W	
R132	1-216-813-11	METAL CHIP 220 5% 1/16W	
R133	1-216-813-11	METAL CHIP 220 5% 1/16W	

Ref. No.	Part No.	Description	Remark		
R134	1-216-813-11	METAL CHIP	220	5%	1/16W
R155	1-216-081-00	METAL CHIP	22K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R158	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R160	1-216-089-00	METAL CHIP	47K	5%	1/10W
R161	1-216-841-11	METAL CHIP	47K	5%	1/16W
R200	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R203	1-216-073-00	METAL CHIP	10K	5%	1/10W
R204	1-216-073-00	METAL CHIP	10K	5%	1/10W
R209	1-216-033-00	METAL CHIP	220	5%	1/10W
R210	1-216-033-00	METAL CHIP	220	5%	1/10W
R212	1-216-081-00	METAL CHIP	22K	5%	1/10W
R213	1-216-081-00	METAL CHIP	22K	5%	1/10W
R215	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R216	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R217	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R218	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R219	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R220	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R221	1-216-041-00	METAL CHIP	470	5%	1/10W
R222	1-216-041-00	METAL CHIP	470	5%	1/10W
R223	1-216-849-11	METAL CHIP	220K	5%	1/16W
R224	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R225	1-216-849-11	METAL CHIP	220K	5%	1/16W
R226	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R227	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R228	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R229	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R230	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R253	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R254	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R255	1-216-081-00	METAL CHIP	22K	5%	1/10W
R256	1-216-081-00	METAL CHIP	22K	5%	1/10W
R260	1-216-089-00	METAL CHIP	47K	5%	1/10W
R261	1-216-089-00	METAL CHIP	47K	5%	1/10W
R270	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R271	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R272	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R273	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R301	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R302	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R303	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R304	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R305	1-216-073-00	METAL CHIP	10K	5%	1/10W
R333	1-216-295-00	CONDUCTOR, CHIP	(2012)		
R401	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R402	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W

Ref. No.	Part No.	Description	Remark		
R403	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R404	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R405	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R406	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R407	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R408	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R410	1-216-805-11	METAL CHIP	47	5%	1/16W
R411	1-216-864-11	METAL CHIP	0	5%	1/16W
R412	1-216-037-00	METAL CHIP	330	5%	1/10W
R413	1-216-037-00	METAL CHIP	330	5%	1/10W
R415	1-216-119-00	METAL CHIP	820K	5%	1/10W
R451	1-216-295-00	CONDUCTOR, CHIP	(2012)		
R454	1-216-186-00	METAL GLAZE	330	5%	1/8W
R455	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R456	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R457	1-216-073-00	METAL CHIP	10K	5%	1/10W
R458	1-216-073-00	METAL CHIP	10K	5%	1/10W
R602	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R603	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R604	1-216-073-00	METAL CHIP	10K	5%	1/10W
R605	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R606	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R609	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R610	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R611	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R612	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R615	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R616	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R619	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R620	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R621	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R622	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R623	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R625	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R651	1-216-107-00	METAL CHIP	270K	5%	1/10W
R652	1-216-119-00	METAL CHIP	820K	5%	1/10W
R653	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R654	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R656	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R710	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R711	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R712	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R721	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R722	1-216-097-00	METAL CHIP	100K	5%	1/10W
R724	1-216-109-00	METAL CHIP	330K	5%	1/10W
R728	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R729	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R731	1-216-105-00	METAL GLAZE	220K	5%	1/10W

MAIN

(Suffix:-13, -14)

Ref. No.	Part No.	Description	Remark
R732	1-239-444-11	NETWORK RESISTOR (CHIP)	220K
R751	1-216-238-00	METAL GLAZE 47K 5%	1/8W
R752	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R753	1-216-073-00	METAL CHIP 10K 5%	1/10W
R754	1-216-025-00	METAL GLAZE 100 5%	1/10W
R755	1-216-809-11	METAL CHIP 100 5%	1/16W
R756	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R757	1-216-017-00	METAL GLAZE 47 5%	1/10W
R758	1-216-238-00	METAL GLAZE 47K 5%	1/8W
R759	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R761	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R762	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R771	1-216-113-00	METAL CHIP 470K 5%	1/10W
R904	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R908	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R909	1-216-073-00	METAL CHIP 10K 5%	1/10W
R910	1-216-206-00	METAL GLAZE 2. 2K 5%	1/8W
R911	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R912	1-216-081-00	METAL CHIP 22K 5%	1/10W
R913	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R914	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R915	1-208-462-41	METAL GLAZE 10K 2%	1/10W
R916	1-208-462-41	METAL GLAZE 10K 2%	1/10W
R917	1-216-025-00	METAL GLAZE 100 5%	1/10W
R918	1-216-025-00	METAL GLAZE 100 5%	1/10W
R920	1-216-025-00	METAL GLAZE 100 5%	1/10W
R921	1-216-025-00	METAL GLAZE 100 5%	1/10W
R922	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R923	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R924	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R925	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R927	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R928	1-208-462-41	METAL GLAZE 10K 2%	1/10W
R929	1-208-462-41	METAL GLAZE 10K 2%	1/10W
R930	1-216-057-00	METAL CHIP 2. 2K 5%	1/10W
R950	1-216-033-00	METAL CHIP 220 5%	1/10W
R951	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R952	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R953	1-216-073-00	METAL CHIP 10K 5%	1/10W
R954	1-216-057-00	METAL CHIP 2. 2K 5%	1/10W
R955	1-216-057-00	METAL CHIP 2. 2K 5%	1/10W
< SWITCH >			
SW301	1-554-576-21	SWITCH, SLIDE (EQUALIZER)	
SW701	1-571-478-11	SWITCH, SLIDE (POWER SEL)	
SW901	1-692-431-21	SWITCH, TACTILE (RESET)	

Ref. No.	Part No.	Description	Remark
< TUNER >			
TU1	A-3282-012-A	TUNER UNIT	
< VIBRATOR >			
X1	1-577-126-51	VIBRATOR, CRYSTAL (7. 2MHz)	
X401	1-579-280-31	VIBRATOR, CRYSTAL (16. 9344MHz)	
X601	1-579-952-21	VIBRATOR, CERAMIC (8MHz)	
X701	1-760-489-11	VIBRATOR, CERAMIC (5MHz)	
X702	1-579-886-21	VIBRATOR, CRYSTAL (32. 768kHz)	

Sony Corporation

Personal & Mobile Communication Company

9-923-479-81

CDX-C710

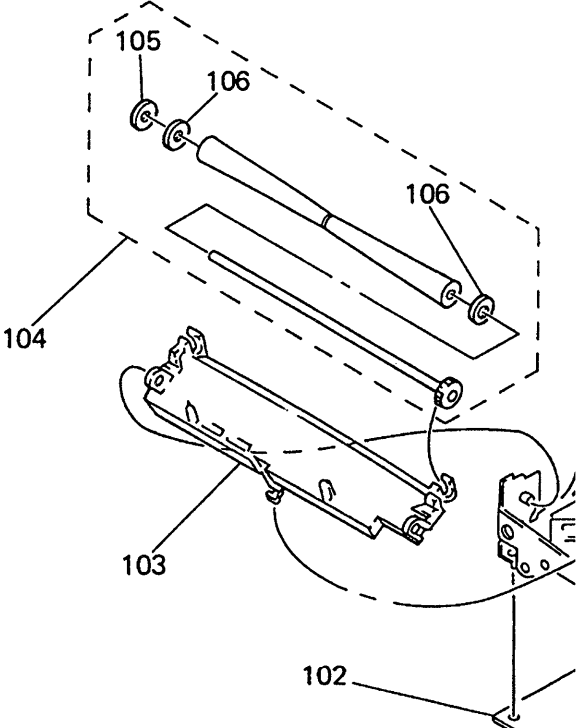
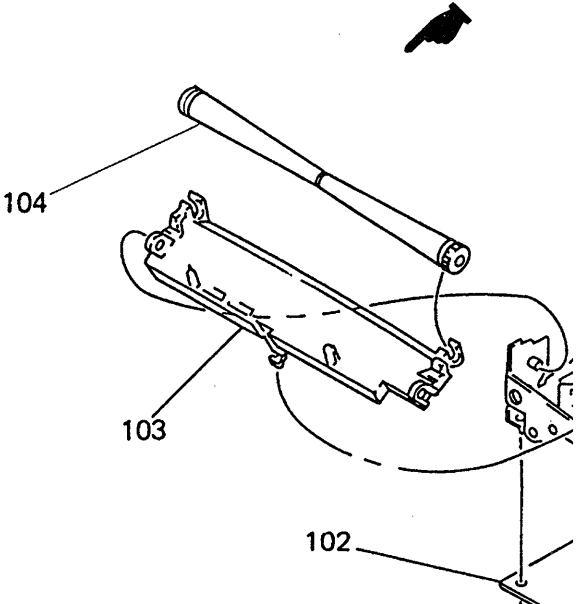
SONY[®] SERVICE MANUAL

US Model

CORRECTION-1

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT			CORRECT		
47	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>
	105	3-701-439-11	WASHER			
	*106	3-322-413-01	SPACER, INSULATING			
						

(SPM-96051)