

STR-D1011S

SERVICE MANUAL

US Model



SPECIFICATIONS

Audio Power Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 - 20,000 Hz, rated 120 watts per channel minimum RMS power, with no more than 0.04 % total harmonic distortion from 250 milliwatts to rated output.

	Surround mode (8 ohms)
FRONT (at 1 kHz)	80 W/ch
CENTER* (at 1 kHz)	80 W
REAR (at 1 kHz)	30 W/ch

* (only in the DOLBY SUR, THEATER and LIVE modes)

Other Specifications

Amplifier section (Front)

Continuous RMS power output (8 ohms, at 20 Hz-20 kHz)
· 130 W + 130 W

Dynamic power output (in the stereo mode)	8 ohms, at 1 kHz IHF	185 W + 185 W
	4 ohms, at 1 kHz IHF	235 W + 235 W

Frequency response	PHONO	RIAA equalization curve ± 0.5 dB
	CD, DAT, TAPE 1,2 VIDEO 1,2,3	10 Hz - 20 kHz ± 0 dB
Damping factor (8 ohms, at 1kHz)		50
Input sensitivity/impedance	PHONO MM	2.5 mV, 50 kilohms
	CD,DAT, TAPE 1,2 VIDEO 1,2,3	250 mV 50 kilohms
S/N	PHONO MM	87 dB 79 dB** (A,2.5mV)
	CD, DAT TAPE 1,2 VIDEO 1,2,3	105 dB 85 dB** (A,150mV)
Output sensitivity/impedance	DAT OUT, TAPE OUT 1,2 VIDEO 1	250 mV 10 kilohms
	HEADPHONES	Accepts headphones of high and low impedance
MUTING		-20dB
DBFB		+10 dB at 70Hz

** '78IHF

FM STEREO/FM-AM RECEIVER
SONY®



使用時は添付資料も参照のこと
Refer to the additional documents.

Digital signal processor section

Modulation (A/D conversion)		High Density Linear Converter
Demonstration (D/A conversion)		High Density Linear Converter (Pulse D/A Converter)
Sampling frequency		48 kHz
Equalizer	Band	3-band, Bass/Treble/Mid
	Turnover frequency	Bass: 125 Hz - 1 kHz Treble: 1 kHz - 8 kHz
	Center frequency	Mid: 54 Hz - 8 kHz
	Level	±10 dB, 1 dB step
	Slope (Q)	3-step selectable, Wide, Mid, Narrow
Surround	ROOM SIZE	16-step adjustable
	WALL	16-step adjustable
	SEAT POSITION F/R	16-step adjustable
	SEAT POSITION L/R	16-step adjustable
	EFFECT LEVEL	20-step adjustable
	REVERB TIME	16-step adjustable
	DELAY TIME**	15.0 ms-30.0 ms, 0.1 ms step
	REAR LEVEL	+10 — -50 dB, 1 dB step
	CENTER LEVEL***	+10 — -50 dB, 1 dB step
	INPUT BALANCE	Automatic

** (only in the DOLBY SUR mode)

*** (only in the DOLBY SUR, THEATER and LIVE modes)

FM tuner section

Frequency range		87.5 - 108.0 MHz
Antenna terminals		75 ohms, unbalanced
Sensitivity at 50 dB		18.3 dBf, 4.5 µV (mono) 38.3 dBf, 45 µV (stereo)
Usable sensitivity		11.2 dBf, 2 µV (IHF)
S/N	Mono	80 dB
	Stereo	74 dB
Harmonic distortion at 1 kHz	Mono	0.3 %
	Stereo	0.5 %
IM distortion	Mono	0.3 %
	Stereo	0.5 %
Separation		45 dB at 1 kHz
Frequency response		30 Hz - 15 kHz ± 0 dB -2 dB
Selectivity		60 dB at 400 kHz
Capture ratio		1.2 dB
AM suppression ratio		54 dB

Image response ratio		70 dB
IF response ratio		70 dB
Spurious response ratio		80 dB
RF intermodulation at 800 kHz		60 dB
Auto tuning threshold	Low	30 dBf
	High	50 dBf

AM tuner section

Frequency range		530 - 1,710 kHz (with 10 kHz interval) 531 - 1,710 kHz (with 9 kHz interval)
Antenna		Loop antenna
Usable sensitivity		50 dB/m (at 1,000 kHz or 999 kHz)
S/N		54 dB (at 50 mV/m)
Harmonic distortion		0.5% (50 mV/m, 400 Hz)
Selectivity		35 dB (9 kHz), 40 dB (10 kHz)
Auto tuning threshold		55 dB/m

Video section

Inputs	VIDEO 1,2,3: 1 Vp-p 75 ohms
Outputs	VIDEO 1, MONITOR: 1 Vp-p 75 ohms

General

System	Tuner section	PLL quartz-locked digital synthesizer system
	Preamplifier section	Low-noise NF type equalizer
	Power amplifier section	Pure-complimentary SEPP
Power requirements		120 V AC, 60 Hz
Power consumption		260 W
AC outlets		Two switched, total 120 W/1 A max.
Dimensions (including projecting parts and controls)		Approx. 430 x 148 x 385 mm (w/h/d) (17 x 5 $\frac{13}{16}$ x 15 $\frac{3}{16}$ inches)
Mass		Approx. 13.2 kg (29 lb 2 oz)

Supplied accessories

- FM wire antenna (1)
- AM loop antenna (1)
- Remote commander (1)
- Sony Batteries SUM-3(NS) (2)
- 4-p flat cord (1)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

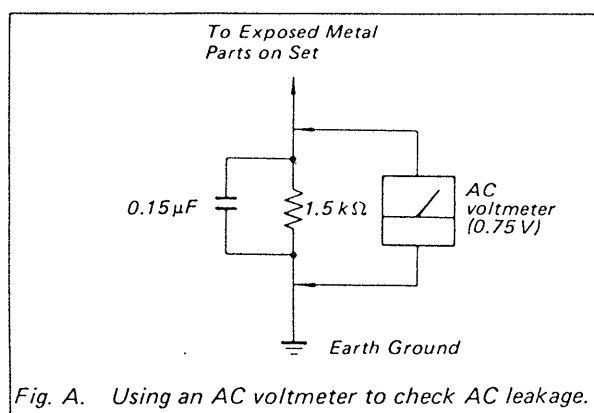
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



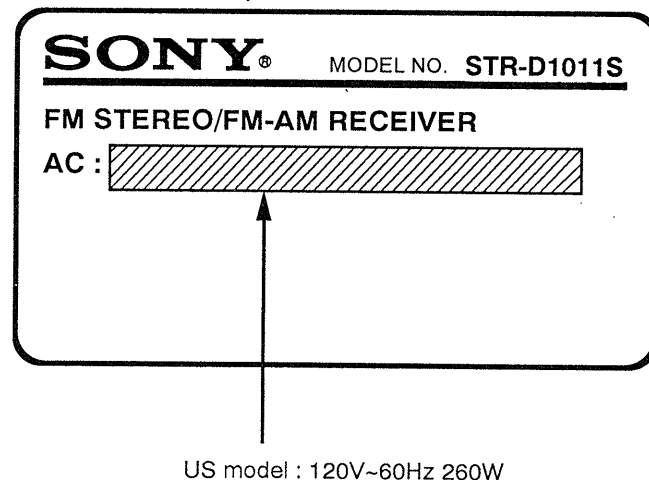
SAFETY-RELATED COMPONENT WARNING!!

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

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MODEL IDENTIFICATION (Specification Label)



Introduction Overview

The STR-D1011S is an FM Stereo/FM-AM receiver and audio/video control center. You can enjoy various audio/video program sources with this unit.

TV/video programs

- You can enjoy TV or CATV programs with FM simulcast.
- Sounds from various audio program sources can be added on video tapes during editing.

Tuner

- Precise tuning is ensured by a quartz locked digital synthesizer.
- Station index system allows you to tune into a station quickly.

Digital surround processor

- The STR-D1011S electronically reproduces the reflected sound (early reflection) and reverberation sound (reverberation) by using its digital signal processor, and allows you to obtain the acoustics of various situations.

- DOLBY PRO LOGIC:** The STR-D1011S incorporates the Dolby Pro Logic Surround Decoder which has the same functions for playback as movie theaters and gives a theater-like experience in your listening room, naturally reproducing the audio sound field.

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. number 3,959,590; Canadian numbers 1,004,603 and 1,037,877. "DOLBY", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Digital parametric equalizer

You can enjoy audio program sources with appropriate equalization curve by controlling the level of the desired 3 frequency bands.

Sound field

- 10 recommended sound field programs (combination of surround and parametric equalizer settings) are preset in the factory for easy use. You can also store up to 10 settings you created in the memory.
- Combined use of the sound field programs and the preset stations allow you to enjoy broadcast listening immediately with the memorized sound field settings.

The FUNCTION/SOUND FIELD/PRESET TUNING buttons

There are two kinds of modes for the FUNCTION/SOUND FIELD/PRESET TUNING buttons. One is the "Auto mode" and the other is the "Manual mode". With these modes, you can conveniently operate this receiver.

This manual describes the operations in the auto mode.

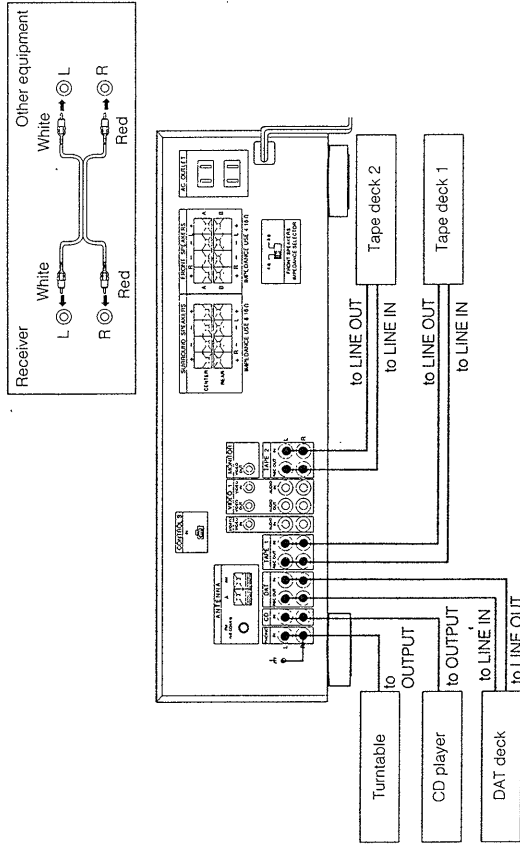
Remote commander supplied

This unit is supplied with the remote commander. For the instruction of the remote commander for Canada model, see the operating instructions of the separate volume.

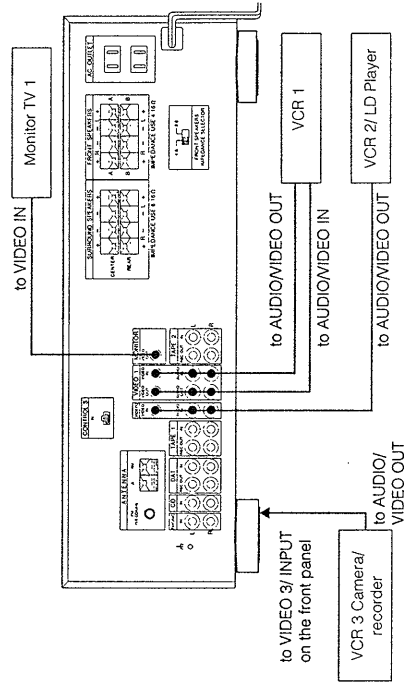
SECTION 1 GENERAL

This section is extracted from instruction manual.

Connecting Audio Equipment



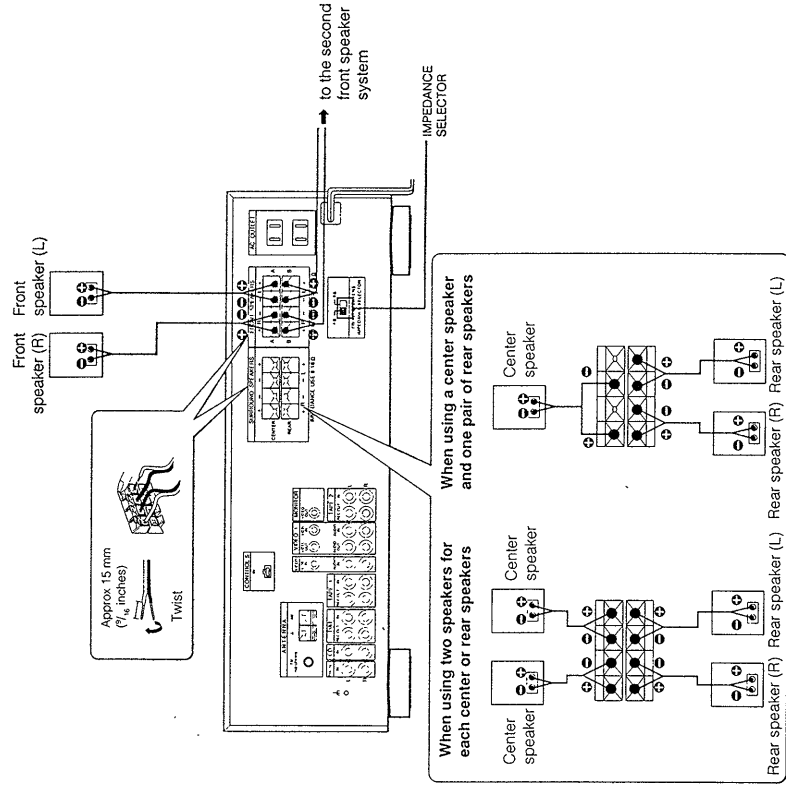
Connecting Video Equipment



Hooking Up the System

Connecting Speaker Systems

Front, center and rear speakers can be connected to this unit.



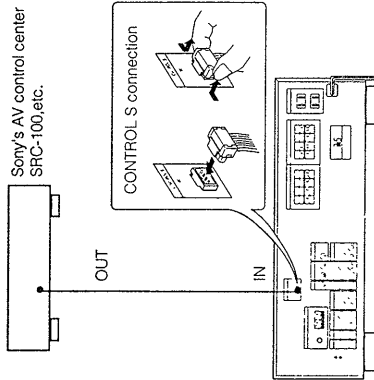
On the IMPEDANCE SELECTOR
The STR-D1011S has the IMPEDANCE SELECTOR for front speakers.
When using the front speakers having nominal impedance from 4 ohms or higher, set to the 4 Ω position.
When using the front speakers having nominal impedance from 8 ohms or higher, set to the 8 Ω position.

Note
Use the front speakers having nominal impedance of more than 8 ohms in the SURROUND mode.

Note
When connecting the speaker cord to the speaker terminal, make sure that the polarity (+ and -) of the speaker cord is correct. If the polarity is reversed at either speaker, the sound will be distorted and will lack bass.

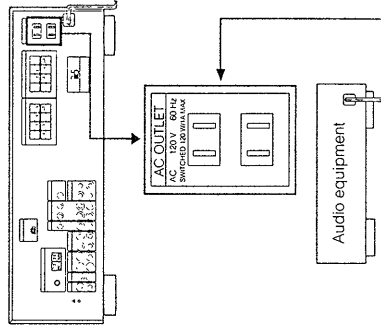
Connecting the Remote Control System

The CONTROL S connections are the Sony's exclusive control system. Connect the CONTROL-S IN on this unit to the CONTROL-S OUT on a Sony equipment, with a CONTROL-S cable. When this connection is made, only remote commands sent through the CONTROL-S IN connector will be executed. Note that the remote sensor on this unit will not function.



Connecting to the Power Outlet

By connecting the power cord of the other audio equipment to SWITCHED AC OUTLET, this unit can supply the power source to the other audio equipment.



Caution

Be careful that the total power consumption of each equipment connected to the outlets on the receiver does not exceed 120 watts.
Do not connect electrical home appliances such as an electric iron, fan, TV, or other high-wattage equipment to these outlets.

Selecting the Mode of the FUNCTION/SOUND FIELD/PRESET TUNING Buttons

There are two kinds of modes for the FUNCTION/SOUND FIELD/PRESET TUNING buttons. One is the "Auto mode" and the other is the "Manual mode".

Auto mode

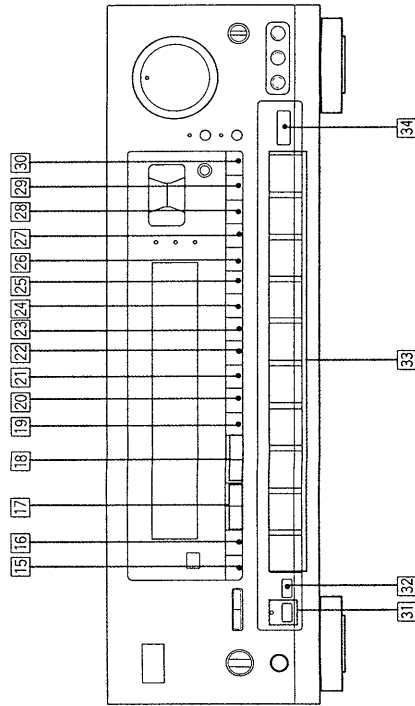
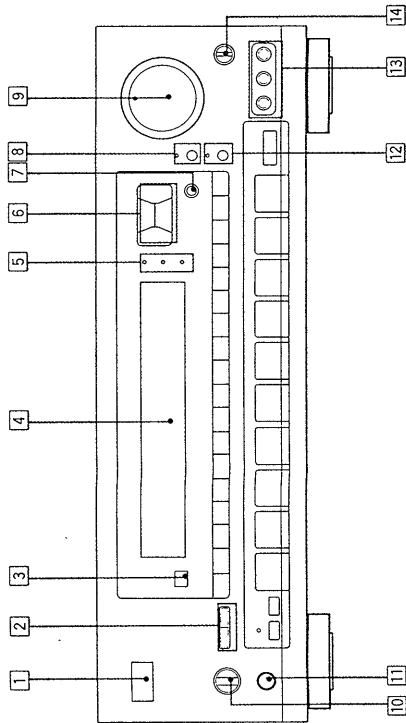
The FUNCTION/SOUND FIELD/PRESET TUNING buttons are factory preset to the auto mode:
After one of the FUNCTION buttons, SOUND FIELD LINK, SOUND FIELD ON/OFF or SOUND FIELD USER/PRESET is pressed, the FUNCTION/SOUND FIELD/PRESET TUNING buttons change to the SOUND FIELD mode automatically. When TUNER is pressed, these buttons function as numeric buttons.

Manual mode

When you press the POWER switch while pressing MODE SELECT, the FUNCTION/SOUND FIELD/PRESET TUNING buttons are set to the manual mode.
With MODE SELECT, you can select the desired mode. To return to the auto mode, perform the same procedure again.

Identifying the Parts and Controls

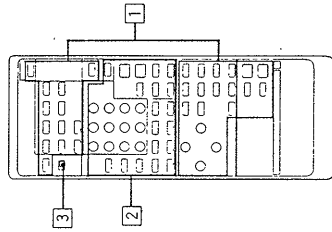
Front Panel



- 1 POWER switch
- 2 EDIT VIDEO/AUDIO buttons (See pages 25, 26.)
- 3 Remote sensor
- 4 Display
- 5 CURSOR MODE indicators
(See pages 16, 21, 30, 31, 33, 36.)
- 6 Cursor mode operation buttons
(See pages 16, 21, 30, 31, 33, 36.)
- 7 CURSOR MODE button
(See pages 16, 21, 30, 31, 33, 36.)
- 8 DBFB button and indicator (See page 14.)
- 9 MASTER VOLUME control (See page 14.)
- 10 SPEAKERS selector (See page 14.)
- 11 HEADPHONES jack
- 12 MUTING button and indicator (See page 14.)
- 13 VIDEO 3/INPUT jacks
- 14 BALANCE control (See page 14.)
- 15 DISPLAY GRAPHIC button (See page 36.)
- 16 DISPLAY INDEX button (See pages 18, 22.)
- 17 INDEX SELECT/TUNING +/- buttons
(See pages 18, 22.)
- 18 PRESET TUNING +/- buttons (See page 22.)
- 19 TUNING LEVEL button (See page 18.)
- 20 MEMORY button (See pages 16, 19, 21.)
- 21 DIRECT TUNING button (See page 17.)
- 22 FM MODE button (See page 17.)
- 23 FM/AM button (See pages 17, 18.)
- 24 SOUND FIELD LINK button (See page 37.)
- 25 SOUND FIELD ON/OFF button (See pages 30, 31.)
- 26 SOUND FIELD USER/PRESET button
(See pages 33, 36, 37.)
- 27 DOLBY PRO LOGIC MODE button
(See pages 29, 30.)
- 28 EQUALIZER FLAT button (See page 36.)
- 29 EQUALIZER SLOPE button (See page 36.)
- 30 EQUALIZER BAND button (See page 36.)
- 31 TAPE 2 MONITOR button and indicator
(See page 24.)
- 32 SHIFT button (See pages 19, 20, 21.)
- 33 FUNCTION/SOUND FIELD/PRESET TUNING buttons
(See page 9.)
- 34 MODE SELECT button (See page 9.)

Identifying the Parts and Controls

Remote Commander



RM-U221

1 Receiver control section

FUNCTION:

3. TAPE, CD, TUNER, PHONO, VIDEO 1, VIDEO 2, VIDEO 3, and the each unit enters its operating mode automatically (DIGITAL 1 and 2 do not function.)
SYSTEM OFF: Turns off the power of the whole system.
POWER: Turns on the power of the receiver.
SOUND FIELD buttons

U/P (user/preset): Selects the USER or PRESET mode.

MODE: Selects the sound field mode.

ON/OFF: Turns on/off the sound field system.

BAND: Selects the frequency band of the equalizer.

EQ: Turns on/off the setting of TONE controls.

T: (test) TONE: Generates a pink noise signal that is sent in succession to each speaker.

CURSOR MODE: Select CURSOR MODE.

REAR LEVEL +/- buttons: Control the volume of rear speakers (surround level).

CENTER LEVEL +/- buttons: Control the volume of center speaker (surround level).

DBFB button: Turns on/off the DBFB (Dynamic Bass Feedback).

MUTING button: Mutes the sound.

MASTER VOL +/- buttons: Control the receiver volume.

SLEEP: Set to the SLEEP timer mode. In this mode, the unit is automatically turned off after the designated time.

2 Other equipment control section

Numeric buttons (1 to 0): Designate the number.

ENTER: Press after designating the TV/VCR channel.

SHIFT: Select the memory page (A, B or C).

TV/VIDEO selector: Selects the program to see: TV or VIDEO.

ANT TV/TVTR button: Selects the output signal from the antenna terminal on the VCR, either a TV signal or VCR programs.

CH/PRESET +/- buttons: Select a preset channel.

INDEX: Set to the index tuning mode.

◀◀▶▶: Fast winding/manual search

●: Recording

▶▶▶▶: Play

■: Stop

II: Pause

◀◀▶▶: Locates a desired selection.

REV/FWD: Press ● and REV or FWD at the same time.

D (disc) SKIP: Disc skip (for a CD player equipped with a multi-disc changer)

SELECT: Changes the settings of the FUNCTION buttons.

Notes

- The button which has no name does not function
- When designating the selection number which is more than 10 in the CD, DAT or LD mode, press ▶▶▶▶ after pressing the appropriate numeric buttons.

3 SYSTEM/TV mode switch

In TV mode (When setting the SYSTEM/TV selector to TV)

Only MUTING, MASTER VOL +/- and the operative buttons in TV section on the list described on the next page can be used.

Precautions

On safety

- Operate the unit only on 120 V AC, 60 Hz.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.
- One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.

To prevent internal heat buildup in the unit,

place the unit in a location with adequate air circulation.

Do not install the unit:

- near heat sources such as radiators or air ducts.
- in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

Do not place anything on top of the cabinet.

The top ventilation holes must be unobstructed for the proper operation of the unit and to prolong the life of its components.

Do not throw away the carton and packing material!

It will be an ideal container when transporting the system for repair work, etc.

On operation

Before making program source connections, be sure to turn the power switch off and unplug the unit.

On cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.

For the customers in the U.S.A.

For detailed safety precautions, see the "IMPORTANT SAFEGUARDS" leaflet.

If you have any question or problem concerning your unit, please consult your nearest Sony dealer.

Chapter 1 Getting Started

Unpacking

Checking the Supplied Accessories

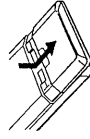
After unpacking, check that the following accessories are present.

- FM wire antenna (1)
- AM loop antenna (1)
- Remote commander (1)
- Sony batteries SUM-3 (NS) (2)
- 4-p flat cord (1)

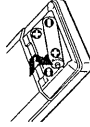
Inserting the Batteries into the Remote Commander

Before operating remote commander, install the batteries as shown.

1 Open the cover.



2 Two size AA (R6) batteries with correct polarity.



To avoid damage caused by battery leakage and corrosion

When the commander will not be used for a long time, remove the batteries.

Battery life

Normal operation can be expected about a half year using Sony SUM-3 (NS), and a year using Sony AM-3 (NW) alkaline batteries.

When the batteries are run down, the remote commander will not operate the unit. In this case, replace batteries with new ones.

Selecting the AM Tuning Interval

The AM tuning interval is preset to 10 kHz. To use the receiver where the frequency allocation system is based on a 9 kHz interval, make the following adjustments.

- 1 Turn on the power and tune in any AM station.
 - 2 Turn off the power.
 - 3 Press the POWER button while pressing the INDEX SELECT/TUNING + button.
- To reset the AM tuning interval, repeat the above steps.

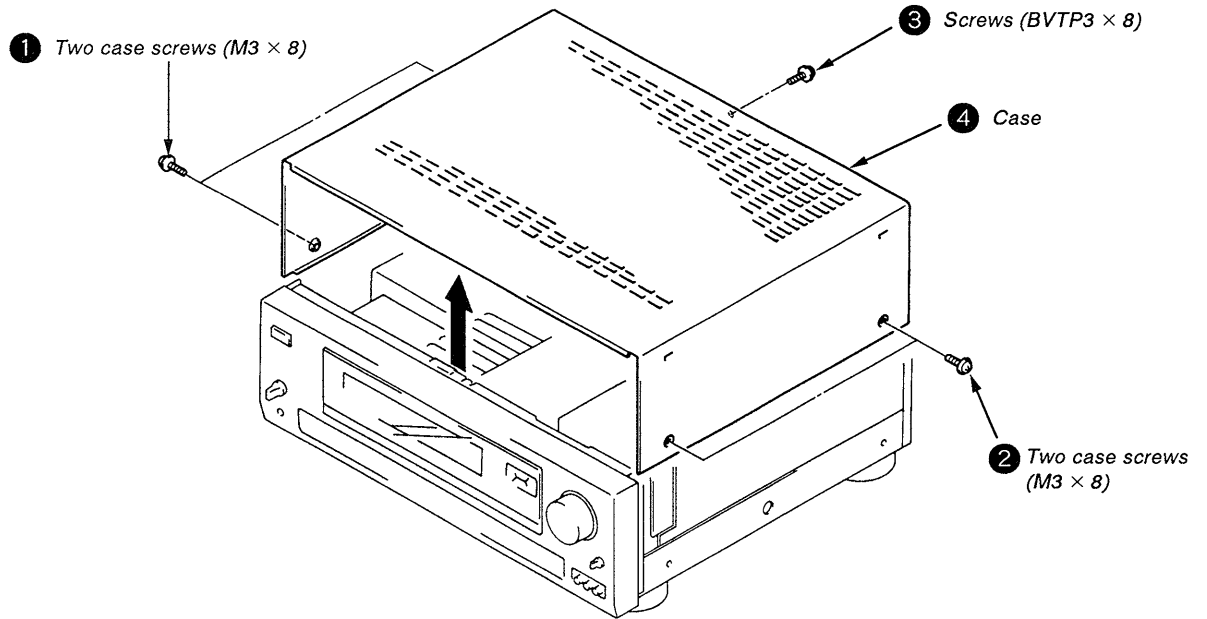
Caution

When the interval is changed, all preset stations which you have memorized will be erased. After changing the interval, be sure to preset the stations again.

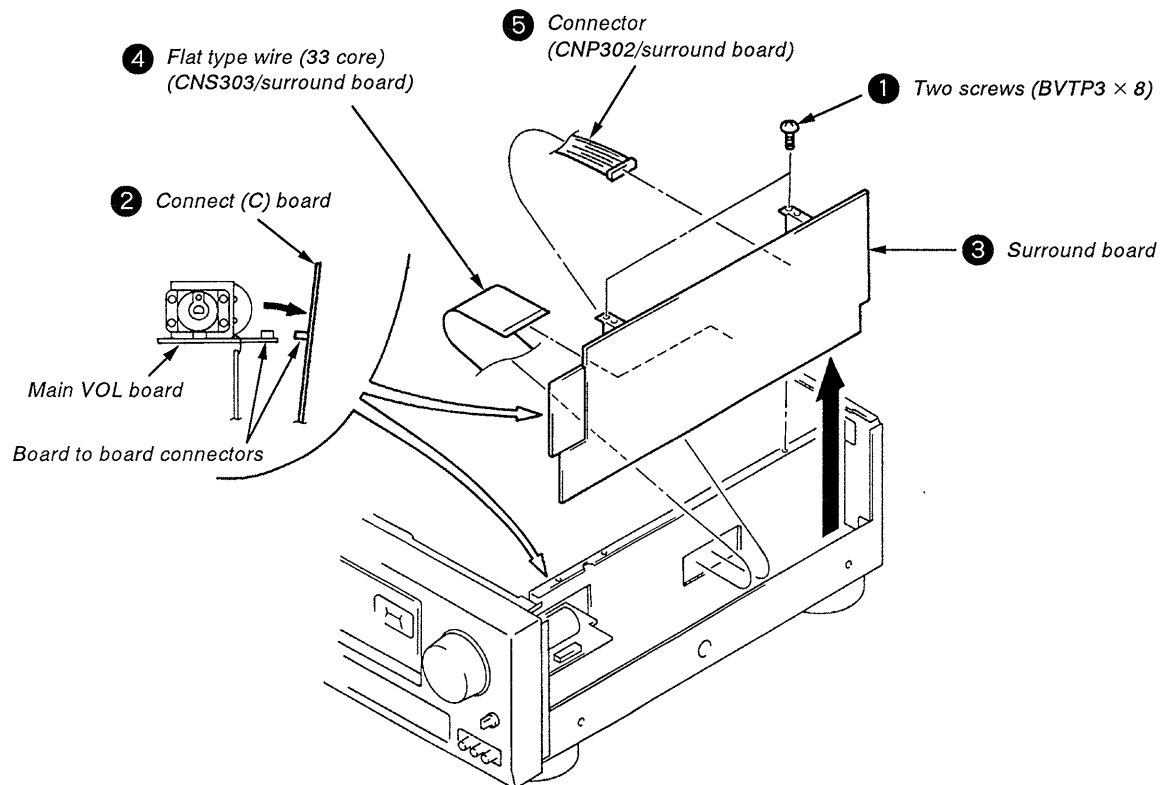
SECTION 2 DISASSEMBLY

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

2-1. CASE REMOVAL



2-2. SURROUND BOARD REMOVAL

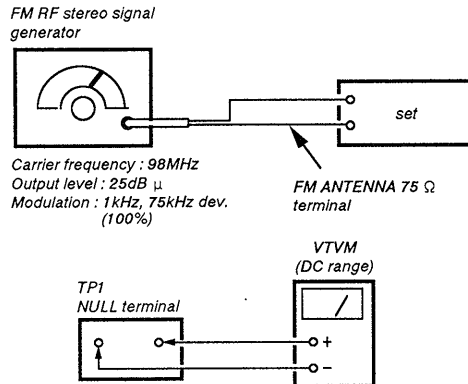


SECTION 3 ELECTRICAL ADJUSTMENTS

FM SECTION

● FM Discriminator (NULL) Adjustment

Setting :



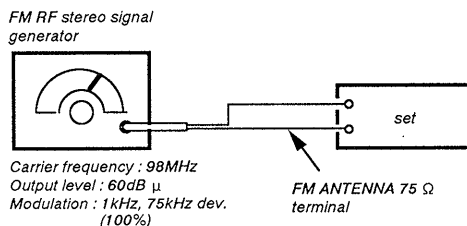
Procedure :

1. Tune the set to 98MHz.
2. Adjust T21 for 0V reading on the VOM.

Note : FM Tuning level adjustment should be made after FM discriminator adjustment.

● FM Tuning Level Adjustment

Setting :

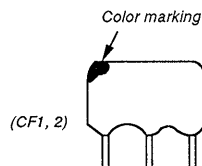


Procedure :

1. Tune the set to 98MHz.
2. Adjust RV24 so that the Voltage of IC10 ② Pin is set to low.

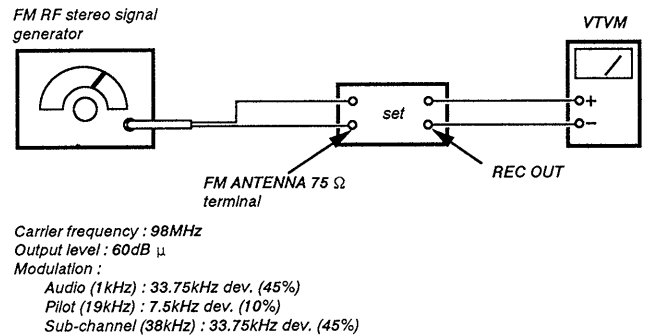
Note on Ceramic Filter (CF1, 2) Replacement. (DISPLAY BOARD)

This set employs two ceramic filters (CF1, 2) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by (* A, * B) connection is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



● FM Stereo Separation Adjustment

Setting :



Procedure :

Tune the set to 98MHz

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV21 for minimum reading
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV21 for minimum reading

L-CH Stereo separation : Ⓐ - Ⓑ
R-CH Stereo separation : Ⓒ - Ⓓ > 40dB

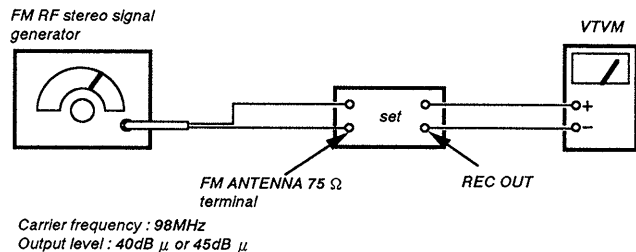
The separations of both channels should be equal

○ : shout
× : open

Ceramic filter		Mount		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	* A (D217)	* B (D218)	
White	10.750	×	○	10.750
Red	10.700	×	×	10.700
Black	10.650	○	×	10.650

● Auto Stop Level Adjustment

Setting :



Procedure :

1. Push the TUNING LEVEL switch to High.
2. Adjust RV25 so that the voltage of IC10 ② pin set to low.

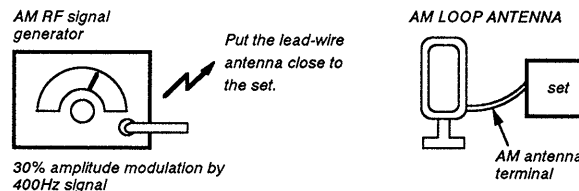
Adjustment Location :

[TUNER VIDEO BOARD] – Component side –

AM SECTION

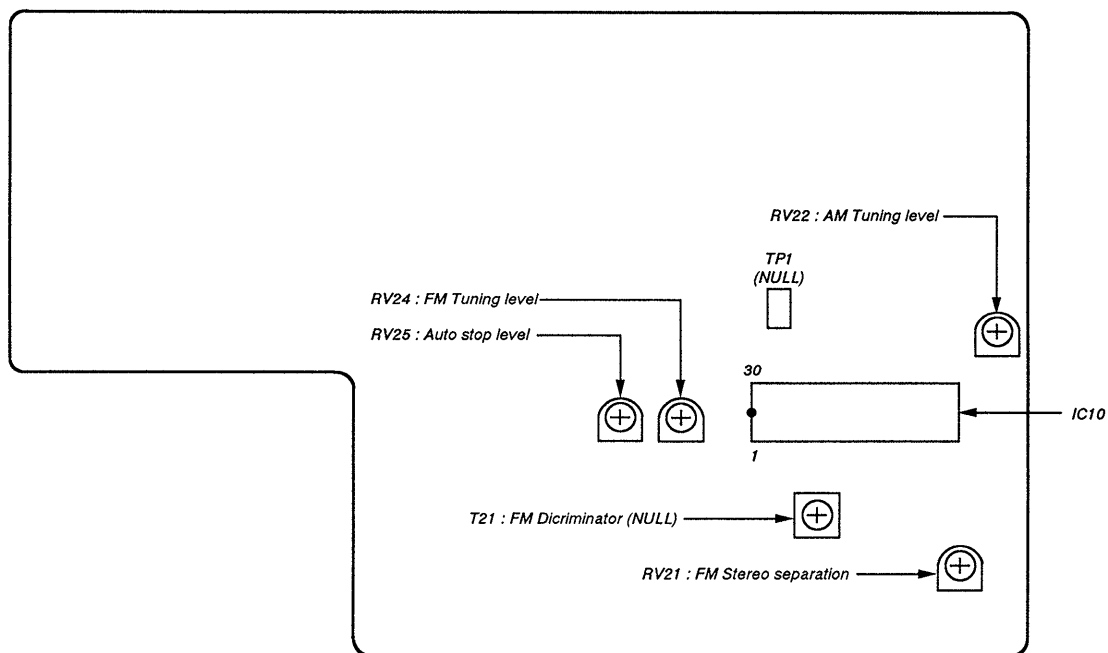
● AM Tuning Level

Setting :



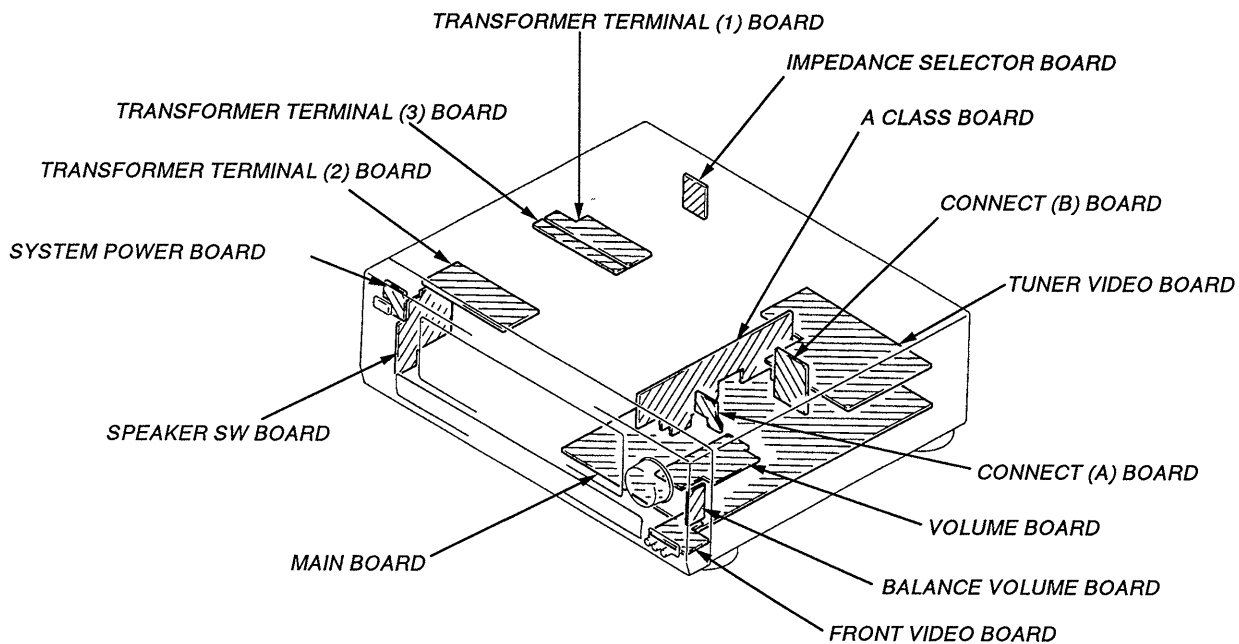
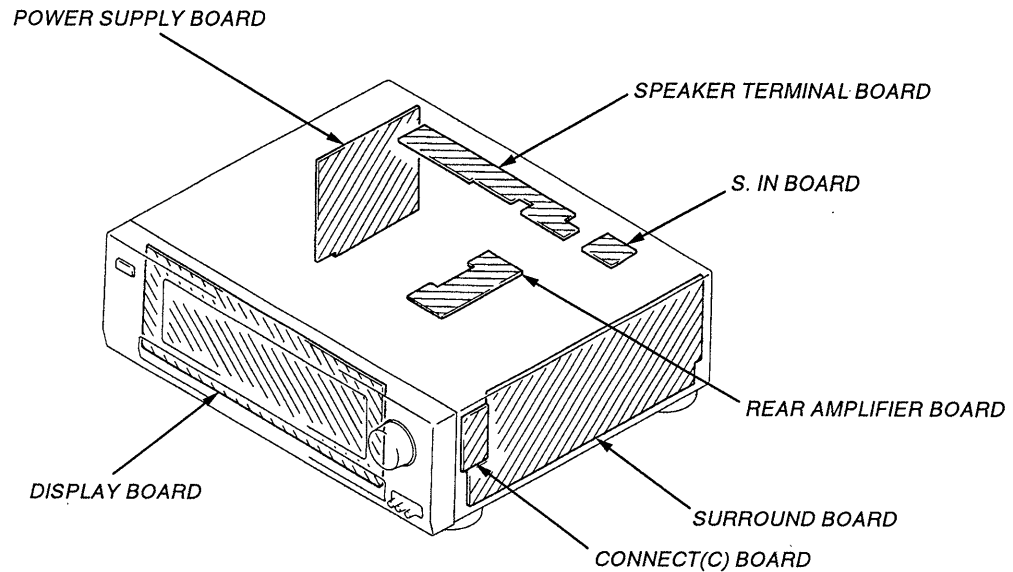
Procedure :

1. Tune the set to 1,050kHz.
2. Adjust RV22 so that the voltage of IC10 ② pin set to low.



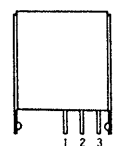
SECTION 4 DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION

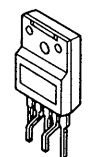


4-2. SEMICONDUCTOR LEAD LAYOUTS

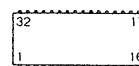
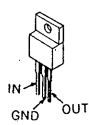
GP1U52XB

1 Vout
2 Vcc
3 GND

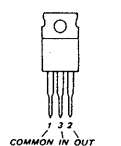
LM3875-S



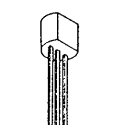
M5218AFP

M5F78M05L
M5F78M15L

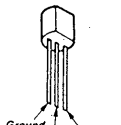
M5F79M15L



NJM78L05A



NJM79L05A



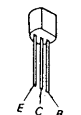
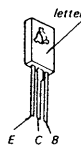
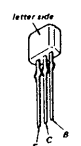
RBA-402



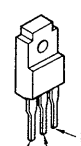
2SA979-FG



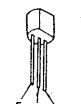
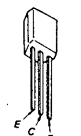
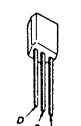
2SA988-PAFAEA

2SA1142-QPE
2SC2682-QPE2SA1175-HFE
2SC2785-HFE
2SC3623A-LK

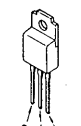
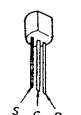
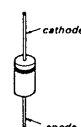
2SA1684-LK



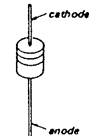
2SC1841-PAFAEA

2SC2603-EF
DTA114ES
DTA124ES
DTC114ES
DTC124ES
DTC144ES2SC3113-AB
2SC2669-OY2SC3395
2SC3396
2SC3398
2SC3661
2SD601A-S
DTA144EK
RN2402

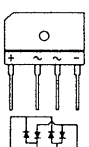
2SC4431-LK

2SK246-GR2
2SK246-GR310E2
1N4148
1S1585
HZS4ALL
UZP-6.8B

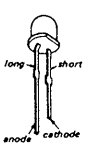
1SS352

HZS6A3L
HZS6C3L
UZL-36L

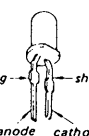
RBV-602-01



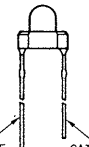
SEL2810A



SEL3810A-CD



SEL6914W-TP6S



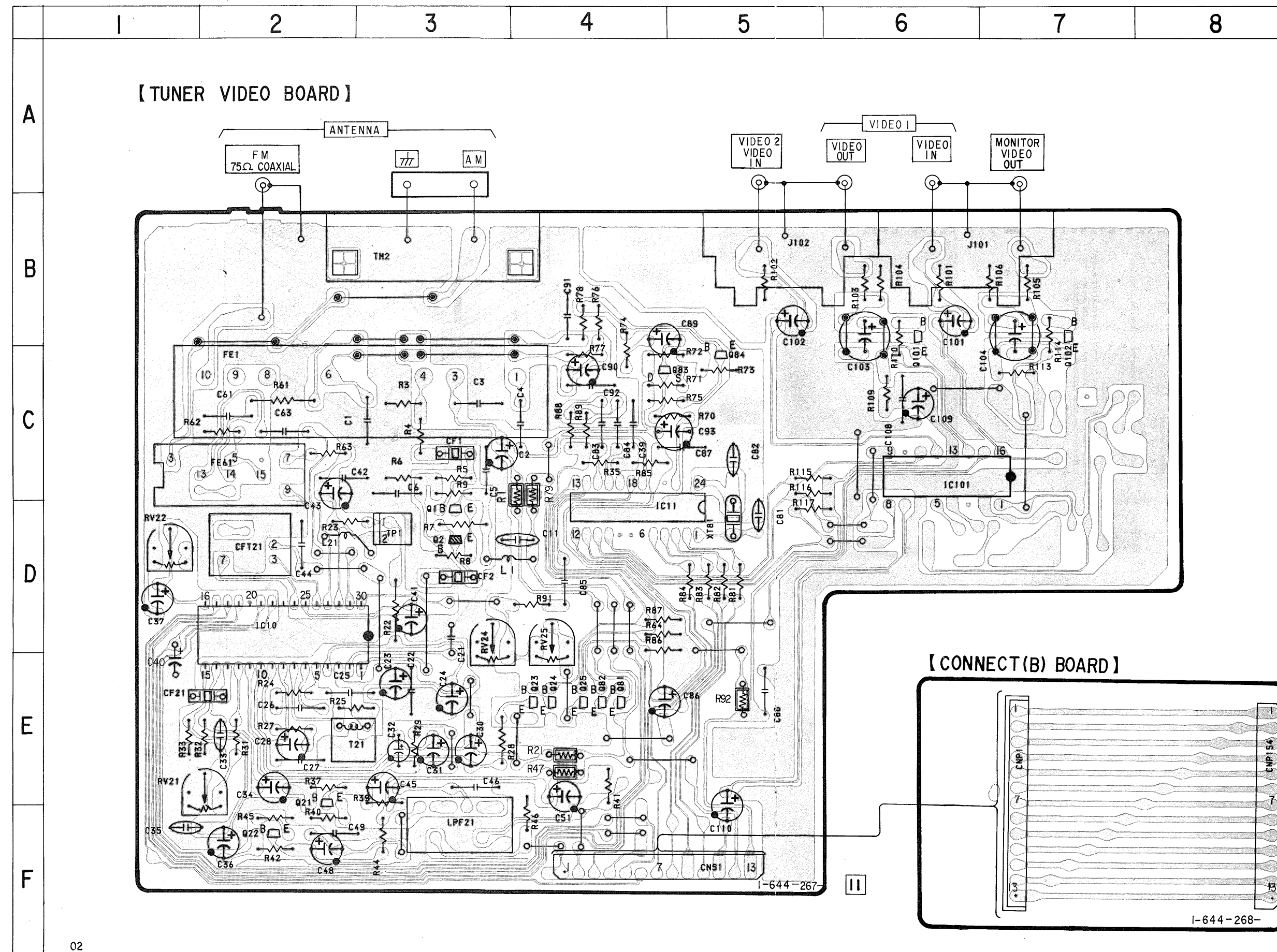
● SEMICONDUCTOR LOCATION

Ref. No.	Location
IC10	D-2
IC11	D-4
IC101	C-6
Q1	D-3
Q2	D-3
Q21	E-2
Q22	F-2
Q23	E-4
Q24	E-4
Q25	E-4
Q81	E-4
Q82	E-4
Q83	C-4
Q84	C-5
Q101	B-6
Q102	B-7

Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : parts mounted on the conductor side.

4-3. PRINTED WIRING BOARDS – TUNER SECTION –



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----

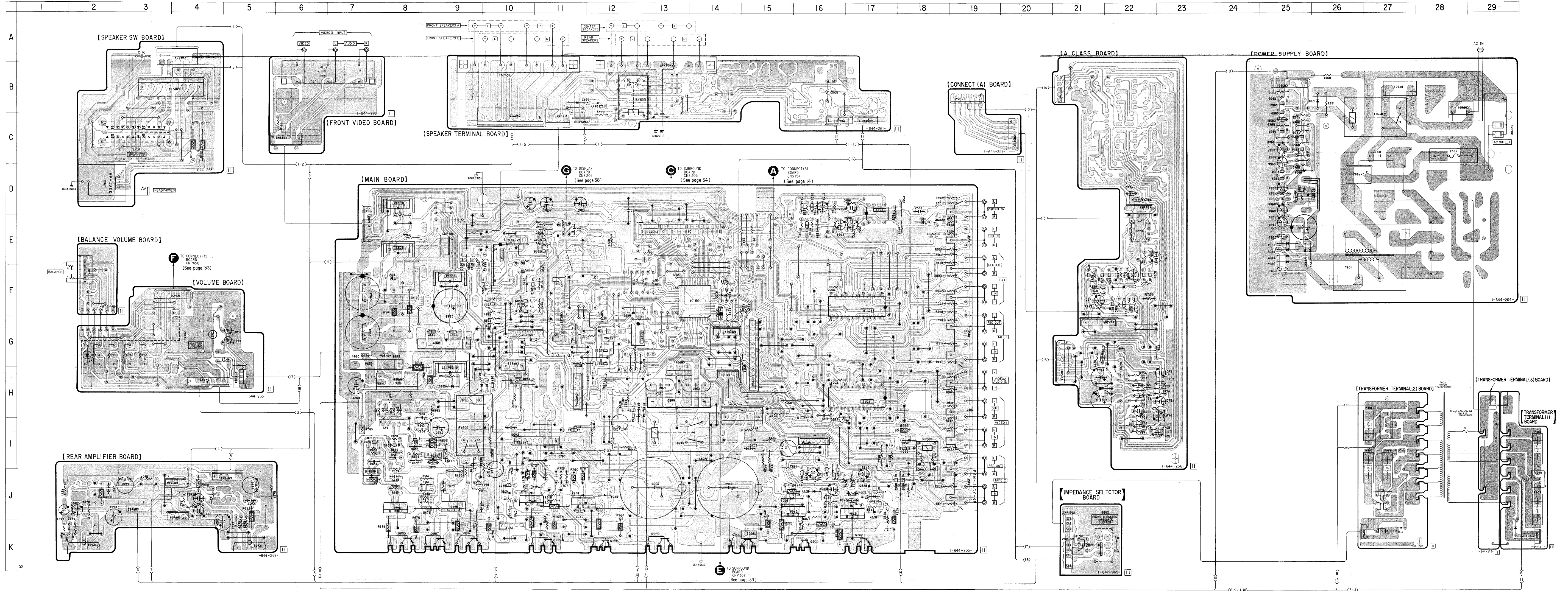
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D150	K-29	IC510	F-17	Q714	J-16
D252	F-14	IC511	H-17	Q715	J-16
D253	E-12	IC514	E-10	Q716	H-12
D501	I-18	IC601	K-2	Q720	F-22
D610	H-9	IC621	K-5	Q721	F-21
D611	H-10	IC701	I-22	Q752	K-12
D612	B-11	IC951	E-8	Q754	J-10
D623	G-13	IC952	D-8	Q755	K-11
D651	I-8	IC953	F-9	Q758	J-11
D652	I-8			Q759	K-13
D654	I-9			Q767	J-10
D701	J-16	Q250	G-12	Q770	G-22
D702	J-16	Q255	H-22	Q771	F-22
D703	J-17	Q256	G-21	Q852	B-25
D704	J-17	Q257	G-12	Q853	D-26
D705	H-12	Q501	I-18	Q854	D-25
D716	J-17	Q502	J-18	Q855	C-25
D718	H-13	Q503	H-16	Q856	C-25
D719	H-13	Q507	E-11	Q857	C-25
D720	J-16	Q508	E-11	Q858	D-25
D723	J-17	Q509	F-10	Q859	B-25
D731	H-12	Q510	F-10	Q961	G-9
D751	J-10	Q511	F-10		
D752	J-10	Q512	F-10		
D753	J-11	Q520	E-9		
D754	J-12	Q521	E-9		
D766	I-10	Q522	F-10		
Q780	I-11	Q523	E-11		
Q781	I-10	Q524	J-17		
D851	B-28	Q641	B-12		
D852	E-25	Q644	H-10		
D853	E-25	Q651	I-8		
D854	E-25	Q652	I-8		
D855	E-25	Q653	I-8		
D856	E-25	Q655	J-7		
D857	E-25	Q656	J-7		
D858	D-25	Q657	K-9		
D859	D-25	Q658	I-9		
D860	C-25	Q662	J-8		
D861	D-25	Q663	J-9		
D863	H-9	Q664	K-9		
D866	K-25	Q665	K-8		
D867	J-25	Q667	J-9		
D870	G-7	Q702	K-16		
D871	G-9	Q704	J-17		
D873	F-12	Q705	K-17		
D880	H-13	Q708	J-16		
IC150	F-14	Q709	K-15		
IC231	G-13	Q712	J-17		
IC501	D-17	Q713	J-16		

Note:

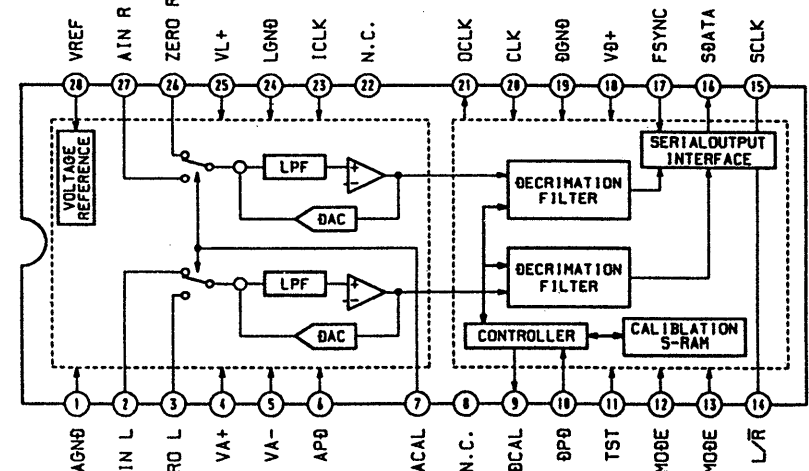
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : parts mounted on the conductor side.

4-6. PRINTED WIRING BOARDS - MAIN SECTION - ● Refer to page 12 for Semiconductor Lead Layouts.

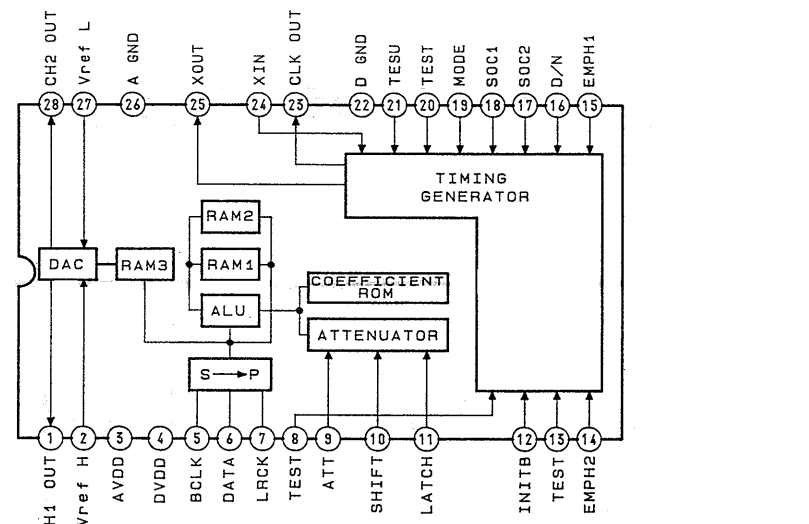


● IC BLOCK DIAGRAMS

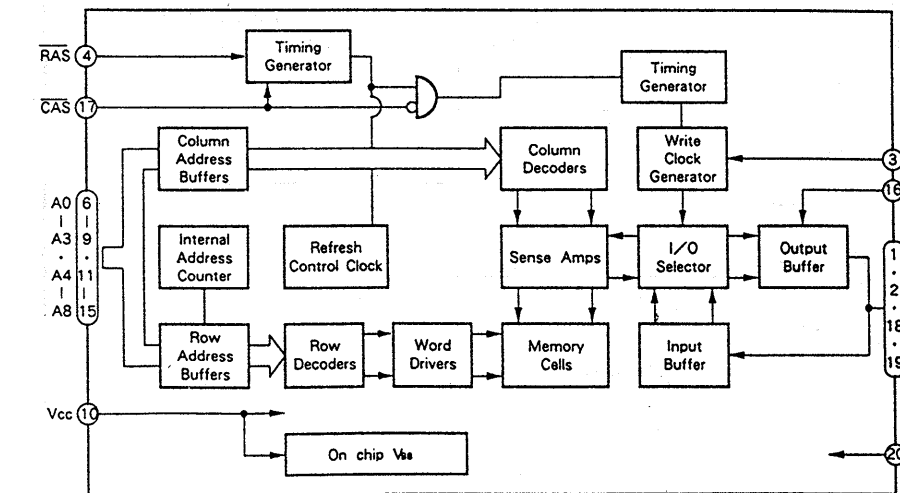
IC301 CS5339-KP



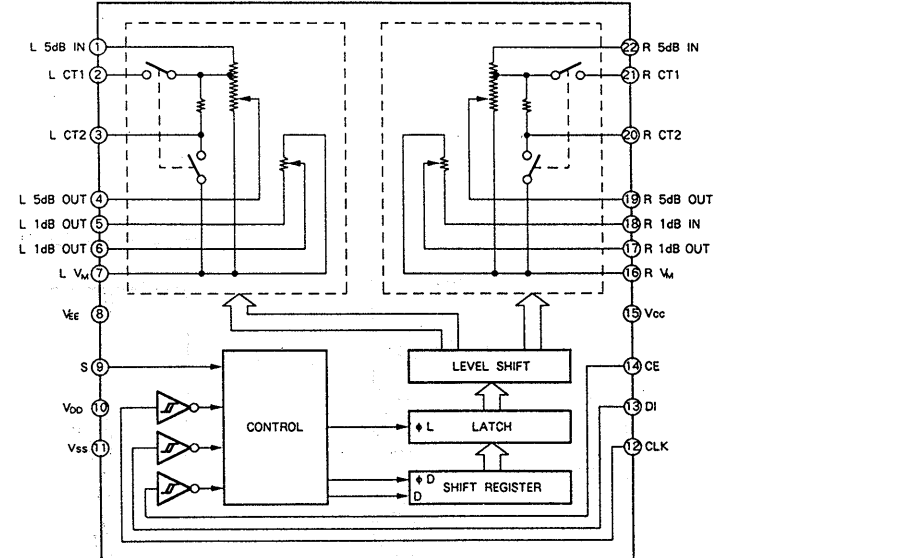
IC307 LC7883K



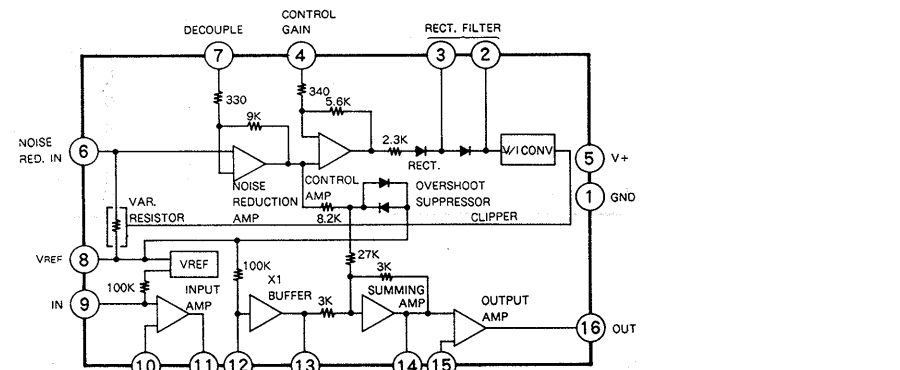
IC406 LC32456-10



IC418 LC7535



IC420 LA2730



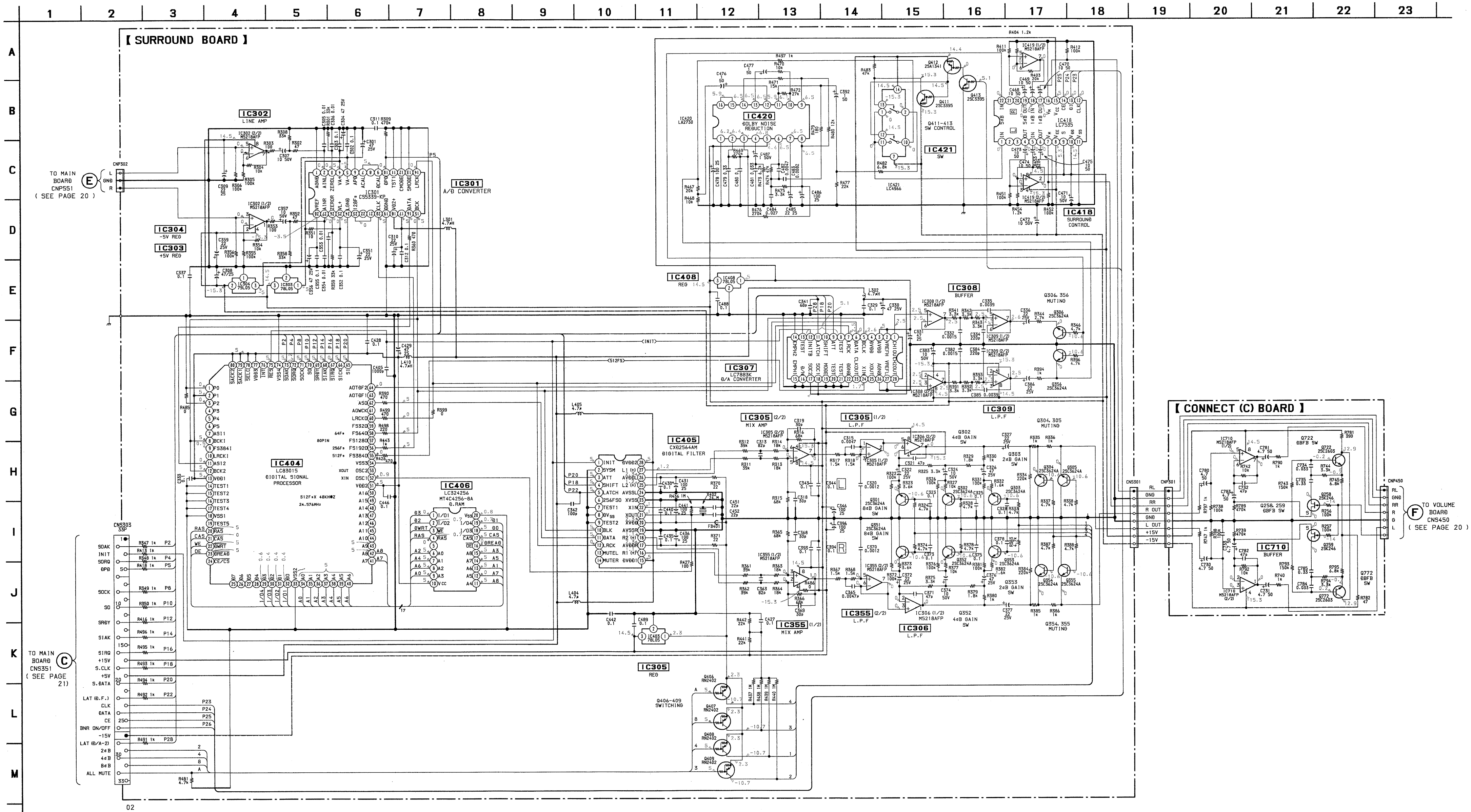
Note :

- All capacitors are in μ F unless otherwise noted; pF: μ F 50WV 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.
- : nonflammable resistor.

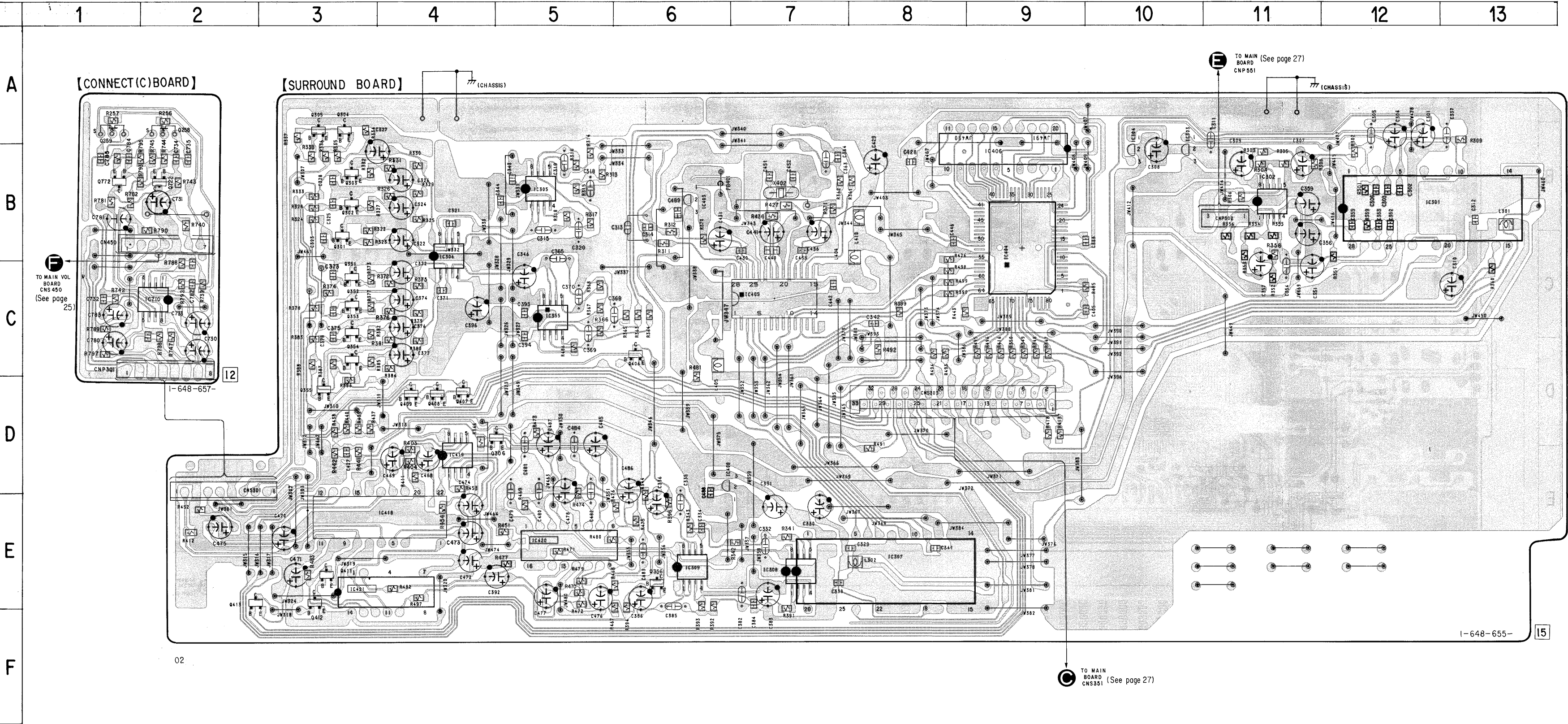
Note : The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

- : B+ Line
- : B+ Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltage variations may be noted due to normal production tolerances.

4-7. SCHEMATIC DIAGRAMS - DIGITAL SECTION -



4-8. PRINTED WIRING BOARDS – DIGITAL SECTION – • Refer to page 12 for Semiconductor Lead Layouts.



• SEMICONDUCTOR LOCATION

Ref. No.	Location
IC301	B - 12
IC302	B - 11
IC303	B - 10
IC304	B - 10
IC305	B - 5
IC306	B - 4
IC307	E - 8
IC308	E - 7
IC309	E - 6
IC355	C - 5
IC403	B - 6
IC404	B - 9
IC405	C - 7
IC406	B - 9
IC408	D - 6
IC418	E - 4
IC419	D - 4
IC420	E - 5
IC421	E - 4
IC710	C - 2
Q258	A - 2
Q259	A - 1
Q301	B - 3
Q302	B - 3
Q303	B - 3
Q304	A - 3
Q305	A - 3
Q306	D - 5
Q351	C - 3
Q352	C - 3
Q353	C - 3
Q354	C - 3
Q355	D - 3
Q356	E - 6
Q406	C - 6
Q407	D - 4
Q408	D - 4
Q409	D - 4
Q411	E - 3
Q412	E - 3
Q413	E - 2
Q722	B - 2
Q772	B - 1

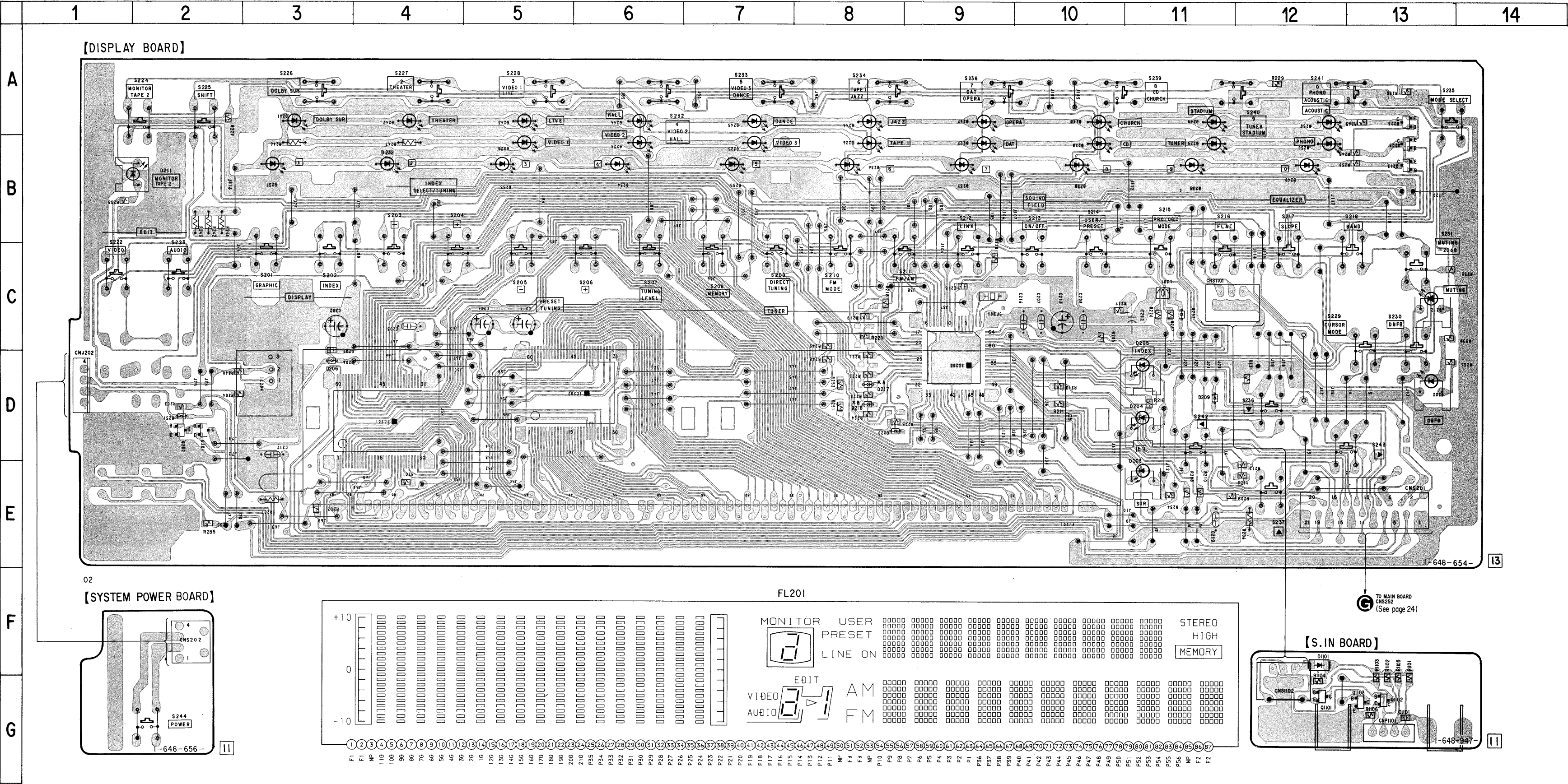
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : parts mounted on the conductor side.

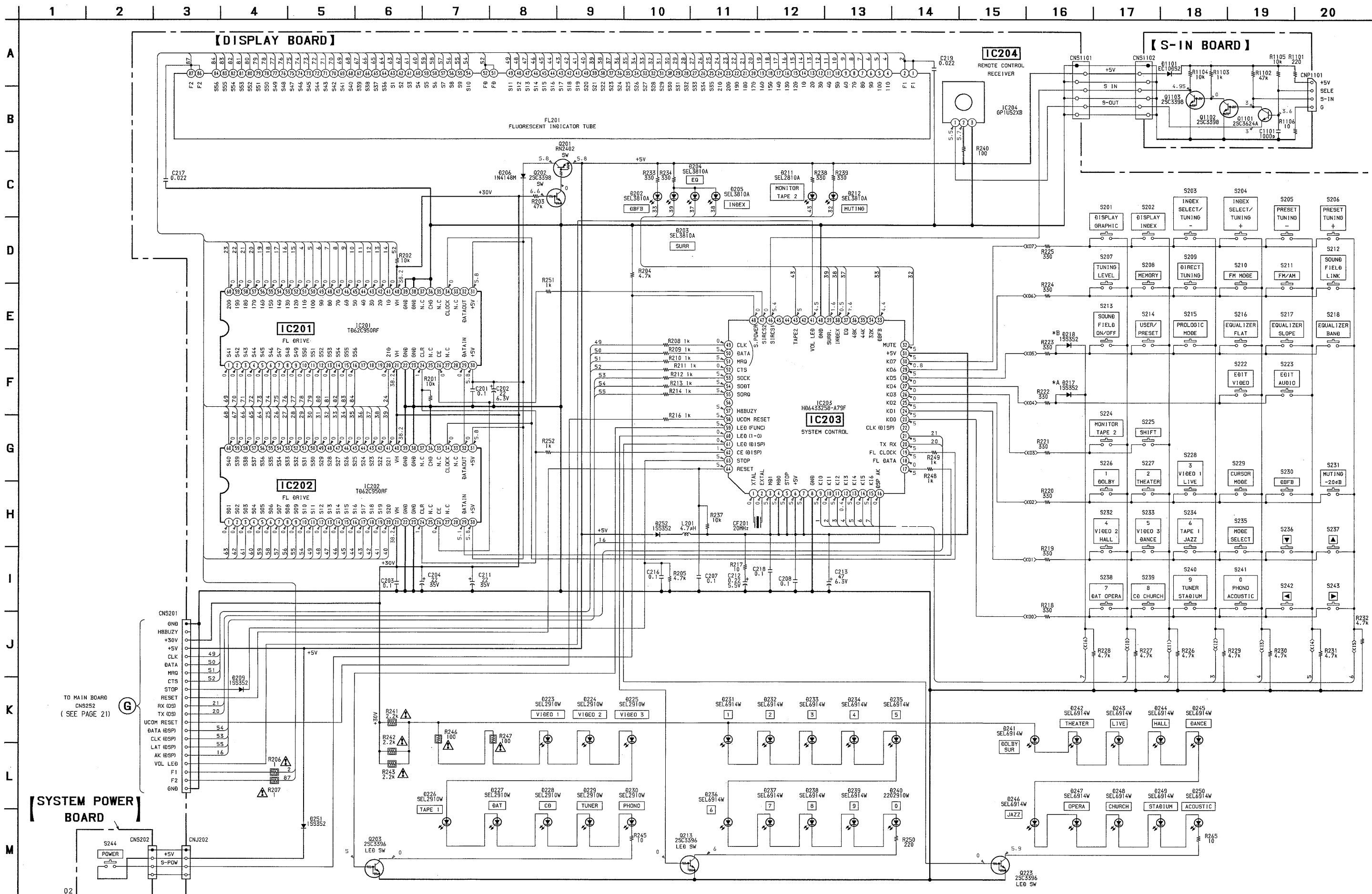
• SEMICONDUCTOR LOCATION

Ref. No.	Location
IC201	D-4
IC202	D-5
IC203	D-9
IC204	D-3
D202	D-13
D203	E-11
D204	D-11
D205	D-11
D206	D-3
D209	D-11
D211	B-2
D212	C-13
D223	B-5
D224	B-6
D225	B-7
D226	B-8
D227	B-9
D228	B-10
D229	B-11
D230	B-12
D231	B-3
D232	B-4
D233	B-5
D234	B-6
D235	B-7
D236	B-8
D237	B-9
D238	B-10
D239	B-11
D240	B-12
D241	A-3
D242	A-4
D243	A-5
D244	A-6
D245	A-7
D246	A-8
D247	A-9
D248	A-10
D249	A-11
D250	A-12
D251	D-2
D252	C-11
D1101	F-12
Q201	D-2
Q202	D-2
Q203	B-13
Q213	B-13
Q223	A-13
Q1101	G-12
Q1102	G-13
Q1103	G-13

Note:

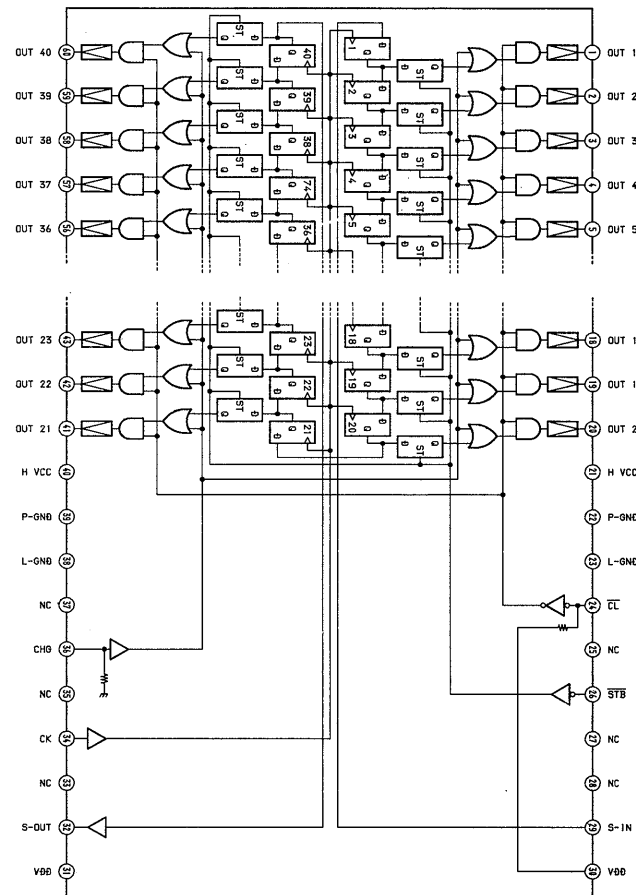
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : parts mounted on the conductor side.





IC BLOCK DIAGRAMS

IC201, 202 TD62C950RF



Note :

- All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$ 50WV 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.
- $\square$: nonflammable resistor.

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

- --- : B+ Line
- --- : B - Line
- $\square$: adjustment for repair.

Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.

Voltages are taken with a VOM (Input impedance $10M \Omega$). Voltage variations may be noted due to normal production tolerances.

See page 9 for * A, * B note.

SECTION 5 EXPLODED VIEWS

NOTE :

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

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

- Color indication of Appearance Parts
Example :

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

↑ ↑
Parts color Cabinet's color

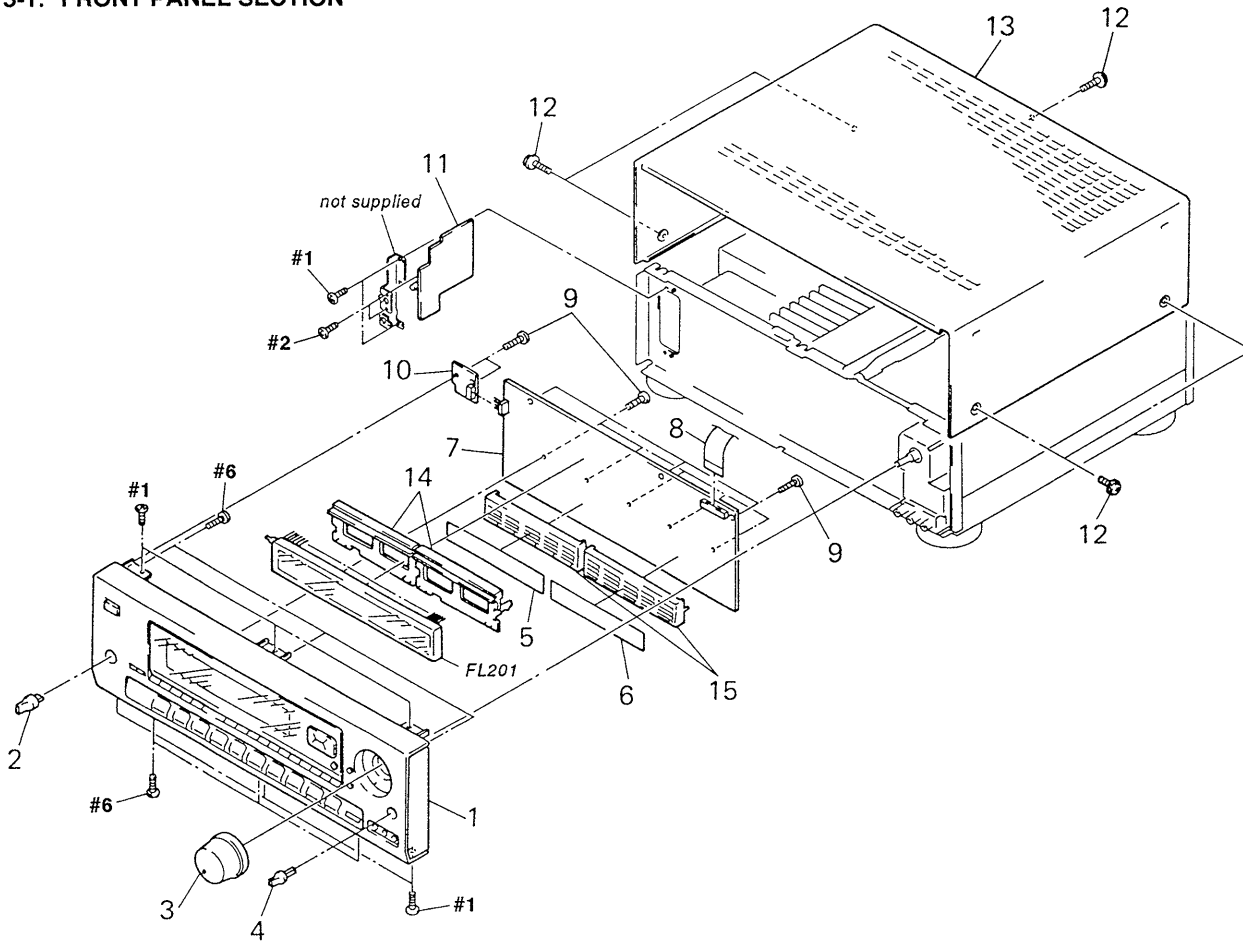
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

- Hardware (# mark)list is given in the last of this parts list.

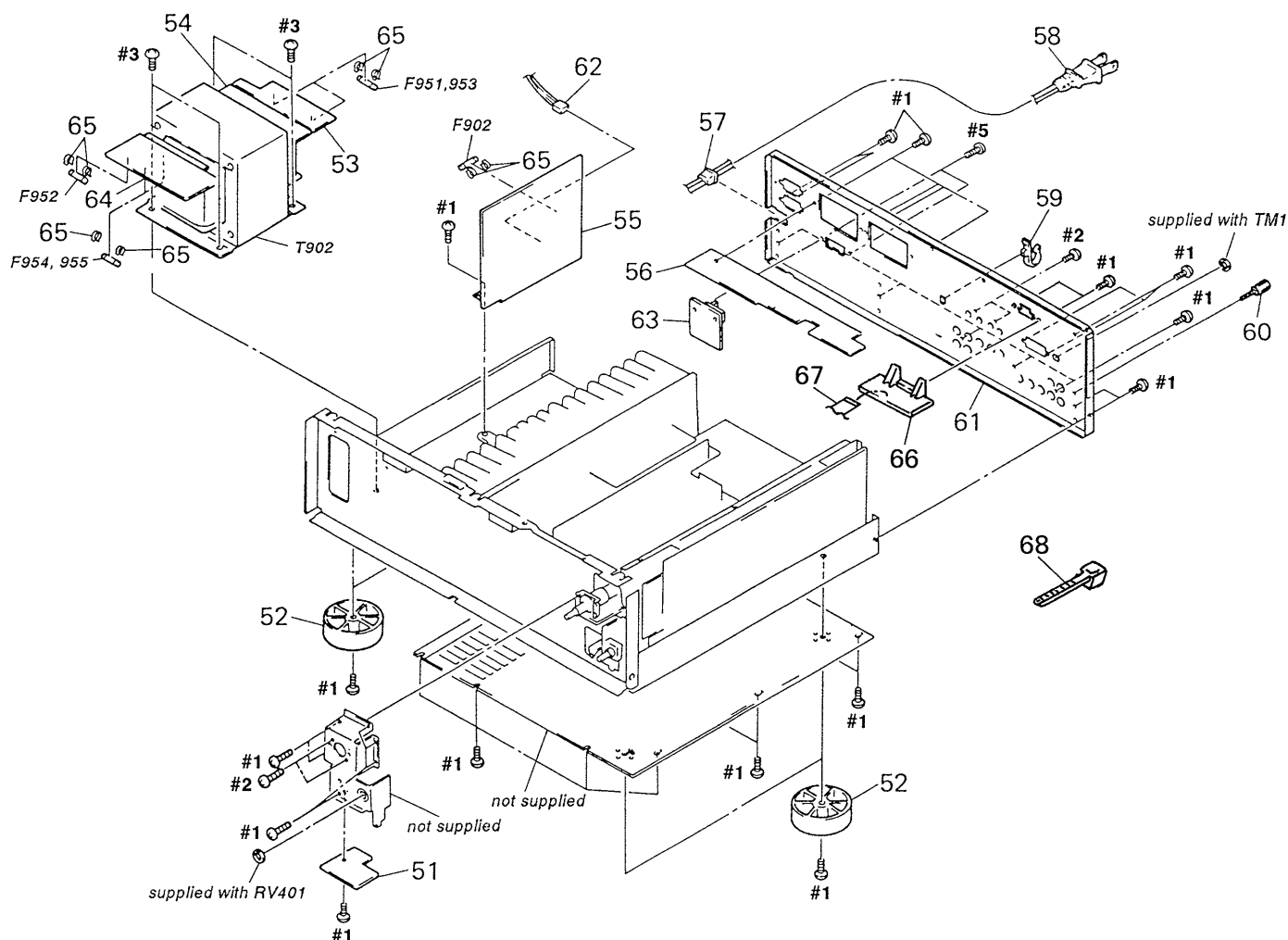
The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

5-1. FRONT PANEL SECTION



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
* 1	X-4944-195-1	PANEL ASSY, FRONT		9	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
2	4-908-097-21	KNOB		* 10	1-648-656-11	SYSTEM POWER BOARD	
3	X-4943-036-1	KNOB (48X) ASSY		* 11	1-644-263-11	SPEAKER SW BOARD	
4	4-925-014-01	KNOB (DIA. 10)		12	3-704-366-01	SCREW (CASE) (M3X8)	
* 5	4-954-181-01	PLATE (F), INDICATION		* 13	4-927-877-11	CASE	
* 6	4-954-181-11	PLATE (F), INDICATION		* 14	4-952-472-01	HOLDER (S), FL TUBE	
* 7	A-4365-811-A	DISPLAY BOARD, COMPLETE		* 15	4-952-473-01	HOLDER (S), LED	
8	1-690-091-11	WIRE, FLAT TYPE (21 CORE)		FL201	1-519-724-11	INDICATOR TUBE, FLUORESCENT	

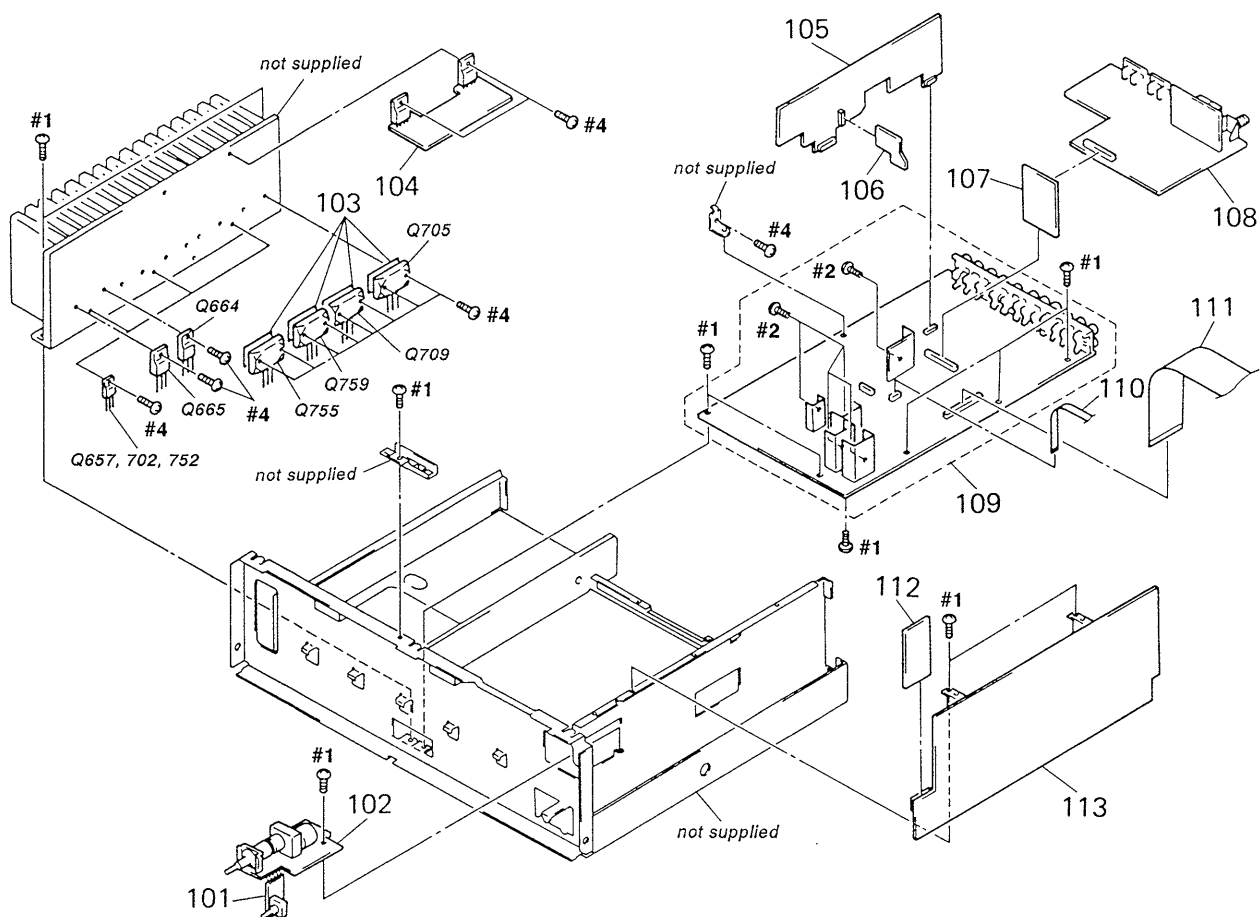
5-2. CHASSIS SECTION



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 51	1-644-270-11	FRONT VIDEO BOARD		* 64	1-644-272-11	TRANSFORMER TERMINAL (2) BOARD	
52	4-956-885-01	FOOT (F58175S2W)		65	1-533-225-11	HOLDER, FUSE	
* 53	1-644-271-11	TRANSFORMER TERMINAL (1) BOARD		* 66	1-648-947-11	S. IN BOARD	
* 54	1-644-273-11	TRANSFORMER TERMINAL (3) BOARD		67	1-751-801-11	WIRE (FLAT TYPE) (7 CORE)	
* 55	A-4365-126-A	POWER SUPPLY BOARD, COMPLET		68	3-655-653-21	BAND (TAITON), BINDING	
* 56	1-644-261-11	SPEAKER TERMINAL BOARD		$\triangle$ F902	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	
* 57	3-703-244-00	BUSHING (2104), CORD		$\triangle$ F951	1-576-109-11	FUSE (5A/125V)	
$\triangle$ 58	1-575-975-11	CORD, POWER		$\triangle$ F952	1-576-108-11	FUSE (4A/125V)	
* 59	4-949-235-01	HOOK		$\triangle$ F953	1-576-109-11	FUSE (5A/125V)	
60	4-947-010-01	SCREW, FEEDER FIXED		$\triangle$ F954	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	
* 61	4-962-815-01	PANEL, BACK		$\triangle$ F955	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	
62	1-696-073-21	LEAD (WITH CONNECTOR) (2 CORE)		$\triangle$ T902	1-423-643-11	TRANSFORMER, POWER	
* 63	1-647-965-11	IMPEDANCE SELECTOR BOARD					

5-3. MAIN BOARD SECTION



Ref.No.	Part No.	Description	Remark
* 101	1-644-266-11	BALANCE VOLUME BOARD	
* 102	1-644-265-11	VOLUME BOARD	
103	4-885-901-31	SHEET, RADIATION	
* 104	A-4360-930-A	REAR AMPLIFIER BOARD, COMPLETE	
* 105	A-4360-931-A	A CLASS BOARD, COMPLETE	
* 106	1-644-257-11	CONNECT (A) BOARD	
* 107	1-644-268-11	CONNECT (B) BOARD	
* 108	A-4347-954-A	TUNER VIDEO BOARD, COMPLETE	
* 109	A-4360-932-A	MAIN BOARD, COMPLETE	
110	1-575-848-11	WIRE, FLAT TYPE (5 CORE)	
111	1-696-550-11	WIRE (FLAT TYPE) (33 CORE)	

Ref.No.	Part No.	Description	Remark
* 112	A-4360-682-A	CONNECT (C) BOARD, COMPLETE	
* 113	A-4360-681-A	SURROUND BOARD, COMPLETE	
Q657	8-729-209-15	TRANSISTOR 2SD2012	
Q664	8-729-321-24	TRANSISTOR 2SA1672-OY	
Q665	8-729-321-21	TRANSISTOR 2SC4387-OY	
Q702	8-729-209-15	TRANSISTOR 2SD2012	
Q705	8-729-320-96	TRANSISTOR 2SC2921-OPY	
Q709	8-729-320-73	TRANSISTOR 2SA1215-OY	
Q752	8-729-209-15	TRANSISTOR 2SD2012	
Q755	8-729-320-96	TRANSISTOR 2SC2921-OPY	
Q759	8-729-320-73	TRANSISTOR 2SA1215-OY	

SECTION 6 ELECTRICAL PARTS LIST

A CLASS

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, -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	
*	A-4360-931-A	A CLASS BOARD, COMPLETE *****				< TRANSISTOR >		
		< CAPACITOR >			Q255	8-729-900-63	TRANSISTOR DTA124ES	
C270	1-136-165-00	FILM	0. 1uF	5%	50V	Q256	8-729-900-63	TRANSISTOR DTA124ES
C271	1-124-907-11	ELECT	10uF	20%	50V	Q720	8-729-141-30	TRANSISTOR 2SC3623A-LK
C701	1-124-927-11	ELECT	4. 7uF	20%	100V	Q721	8-729-141-30	TRANSISTOR 2SC3623A-LK
C702	1-164-070-11	CERAMIC	100PF	5%	50V	Q770	8-729-141-30	TRANSISTOR 2SC3623A-LK
C703	1-162-219-31	CERAMIC	68PF	5%	50V	Q771	8-729-141-30	TRANSISTOR 2SC3623A-LK
		< RESISTOR >						
C704	1-102-316-00	CERAMIC	15PF	5%	500V	R259	1-249-437-11	CARBON 47K 5% 1/4W
C705	1-102-936-00	CERAMIC	3. 0PF	+-0. 25PF	50V	R260	1-249-437-11	CARBON 47K 5% 1/4W
C706	1-124-443-00	ELECT	100uF	20%	10V	R261	1-249-417-11	CARBON 1K 5% 1/4W
C716	1-124-931-11	ELECT	47uF	20%	100V	R262	1-249-429-11	CARBON 10K 5% 1/4W
C727	1-164-159-11	CERAMIC	0. 1uF		50V	R263	1-249-429-11	CARBON 10K 5% 1/4W
C736	1-164-077-11	CERAMIC	220PF	10%	50V	R270	1-249-433-11	CARBON 22K 5% 1/4W
C737	1-124-927-11	ELECT	4. 7uF	20%	100V	R271	1-249-433-11	CARBON 22K 5% 1/4W
C751	1-124-927-11	ELECT	4. 7uF	20%	100V	R701	1-249-417-11	CARBON 1K 5% 1/4W
C752	1-164-070-11	CERAMIC	100PF	5%	50V	R703	1-249-441-11	CARBON 100K 5% 1/4W
C753	1-162-219-31	CERAMIC	68PF	5%	50V	R704	1-249-413-11	CARBON 470 5% 1/4W
C754	1-102-316-00	CERAMIC	15PF	5%	500V	R705	1-249-441-11	CARBON 100K 5% 1/4W
C755	1-102-936-00	CERAMIC	3. 0PF	+-0. 25PF	50V	R706	1-247-828-11	CARBON 750 5% 1/4W
C756	1-124-443-00	ELECT	100uF	20%	10V	R741	1-249-417-11	CARBON 1K 5% 1/4W
C766	1-124-931-11	ELECT	47uF	20%	100V	R742	1-249-441-11	CARBON 100K 5% 1/4W
C786	1-164-077-11	CERAMIC	220PF	10%	50V	R747	1-247-807-31	CARBON 100 5% 1/4W
C787	1-124-927-11	ELECT	4. 7uF	20%	100V	R751	1-249-417-11	CARBON 1K 5% 1/4W
		< CONNECTOR >			R753	1-249-441-11	CARBON 100K 5% 1/4W	
CNP761	1-691-163-11	PIN, CONNECTOR 6P			R754	1-249-413-11	CARBON 470 5% 1/4W	
* CNP762	1-691-175-11	CONNECTOR (BOARD TO BOARD) 5P			R755	1-249-441-11	CARBON 100K 5% 1/4W	
CNP763	1-691-178-11	CONNECTOR (BOARD TO BOARD) 8P			R756	1-247-828-11	CARBON 750 5% 1/4W	
* CNP764	1-564-508-11	PLUG, CONNECTOR 5P			R791	1-247-807-31	CARBON 100 5% 1/4W	
		< IC >			R792	1-249-441-11	CARBON 100K 5% 1/4W	
IC701	8-749-921-85	IC	STK-3122-3		R797	1-249-417-11	CARBON 1K 5% 1/4W	
IC710	8-759-634-51	IC	M5218AP		*****			

BALANCE VOLUME

CONNECT(A)

CONNECT(B)

CONNECT(C)

DISPLAY

Ref.No.	Part No.	Description	Remark
*	1-644-266-11	BALANCE VOLUME BOARD *****	
		< VARIABLE RESISTOR >	
RV401	1-241-963-11	RES, VAR, CARBON 100K/100K (BALANCE)	

*	1-644-257-11	CONNECT (A) BOARD *****	
		< CONNECTOR >	
* CNS751	1-691-176-11	CONNECTOR (BOARD TO BOARD) 6P	
* CNS761	1-691-176-11	CONNECTOR (BOARD TO BOARD) 6P	

*	1-644-268-11	CONNECT (B) BOARD *****	
		< CONNECTOR >	
CNP1	1-691-170-11	PIN, CONNECTOR 13P	
		< CONNECTOR >	
* CNS154	1-691-183-11	CONNECTOR (BOARD TO BOARD) 13P	

*	A-4360-682-A	CONNECT (C) BOARD, COMPLETE *****	
		< CAPACITOR >	
C730	1-124-927-11	ELECT 4. 7uF 20% 100V	
C731	1-124-927-11	ELECT 4. 7uF 20% 100V	
C732	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
C733	1-124-927-11	ELECT 4. 7uF 20% 100V	
C734	1-163-989-11	CERAMIC CHIP 0. 033uF 10% 25V	
C735	1-164-336-11	CERAMIC CHIP 0. 33uF 25V	
C780	1-124-927-11	ELECT 4. 7uF 20% 100V	
C781	1-124-927-11	ELECT 4. 7uF 20% 100V	
C782	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
C783	1-124-927-11	ELECT 4. 7uF 20% 100V	
C784	1-163-989-11	CERAMIC CHIP 0. 033uF 10% 25V	
C785	1-164-336-11	CERAMIC CHIP 0. 33uF 25V	
		< CONNECTOR >	
CNP301	1-764-173-11	PLUG, CONNECTOR 8P	
CNP450	1-691-164-11	PIN, CONNECTOR 7P	
		< IC >	
IC710	8-759-636-55	IC M5218AFP	

Ref.No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q258	8-729-201-56	TRANSISTOR 2SK246-GR2	
Q259	8-729-201-56	TRANSISTOR 2SK246-GR2	
Q722	8-729-802-80	TRANSISTOR 2SC3661	
Q772	8-729-802-80	TRANSISTOR 2SC3661	
		< RESISTOR >	
R256	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R257	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R738	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R739	1-216-113-00	METAL CHIP 470K 5% 1/10W	
R740	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R742	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R743	1-216-101-00	METAL CHIP 150K 5% 1/10W	
R744	1-216-061-00	METAL CHIP 3. 3K 5% 1/10W	
R745	1-216-069-00	METAL CHIP 6. 8K 5% 1/10W	
R747	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R781	1-216-039-00	METAL CHIP 390 5% 1/10W	
R782	1-216-017-00	METAL CHIP 47 5% 1/10W	
R788	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R789	1-216-113-00	METAL CHIP 470K 5% 1/10W	
R790	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R792	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R793	1-216-101-00	METAL CHIP 150K 5% 1/10W	
R794	1-216-061-00	METAL CHIP 3. 3K 5% 1/10W	
R795	1-216-069-00	METAL CHIP 6. 8K 5% 1/10W	
R797	1-216-049-00	METAL CHIP 1K 5% 1/10W	

*	A-4365-811-A	DISPLAY BOARD, COMPLETE *****	
		< CAPACITOR >	
* 4-952-472-01	HOLDER (S), FL TUBE		
* 4-952-473-01	HOLDER (S), LED		
C201	1-164-004-11	CERAMIC CHIP 0. 1uF 10% 25V	
C202	1-124-638-11	ELECT 22uF 20% 10V	
C203	1-136-165-00	FILM 0. 1uF 5% 50V	
C204	1-124-916-11	ELECT 22uF 20% 63V	
C207	1-136-165-00	FILM 0. 1uF 5% 50V	
C208	1-136-165-00	FILM 0. 1uF 5% 50V	
C211	1-124-916-11	ELECT 22uF 20% 63V	
C212	1-104-905-11	CAP, DOUBLE LAYERS 0. 22F	
C213	1-126-154-11	ELECT 47uF 20% 6. 3V	
C216	1-136-165-00	FILM 0. 1uF 5% 50V	
C217	1-164-097-11	CERAMIC 0. 022uF 50V	
C218	1-164-004-11	CERAMIC CHIP 0. 1uF 10% 25V	
C219	1-164-097-11	CERAMIC 0. 022uF 50V	

Ref.No.	Part No.	Description	Remark
		< FILTER >	
CF201	1-567-928-11	VIBLATOR, CERAMIC (20MHz)	
		< JACK >	
* CNJ202	1-565-295-11	PLUG, CONNECTOR 4P	
		< CONNECTOR >	
	CNS11011-691-644-11	SOCKET, CONNECTOR 7P	
* CNS201	1-695-382-11	PIN, CONNECTOR (PC BOARD) 21P	
		< DIODE >	
D202	8-719-313-72	LED SEL3810A-CD (D. B. F. B)	
D203	8-719-313-72	LED SEL3810A-CD (SURR)	
D204	8-719-313-72	LED SEL3810A-CD (EQ)	
D205	8-719-313-72	LED SEL3810A-CD (INDEX)	
D206	8-719-016-74	DIODE 1SS352	
D209	8-719-016-74	DIODE 1SS352	
D211	8-719-301-49	LED SEL2810A (MONITOR TAPE2)	
D212	8-719-313-72	LED SEL3810A-CD ((MUTING)	
D217	8-719-016-74	DIODE 1SS352	
D218	8-719-016-74	DIODE 1SS352	
D223	8-719-030-50	LED SEL6914W-TP6S (VIDEO 1)	
D224	8-719-030-50	LED SEL6914W-TP6S (VIDEO 2)	
D225	8-719-030-50	LED SEL6914W-TP6S (VIDEO 3)	
D226	8-719-030-50	LED SEL6914W-TP6S (TAPE 1)	
D227	8-719-030-50	LED SEL6914W-TP6S (DAT)	
D228	8-719-030-50	LED SEL6914W-TP6S (CD)	
D229	8-719-030-50	LED SEL6914W-TP6S (TUNER)	
D230	8-719-030-50	LED SEL6914W-TP6S (PHONO)	
D231	8-719-030-50	LED SEL6914W-TP6S (1)	
D232	8-719-030-50	LED SEL6914W-TP6S (2)	
D233	8-719-030-50	LED SEL6914W-TP6S (3)	
D234	8-719-030-50	LED SEL6914W-TP6S (4)	
D235	8-719-030-50	LED SEL6914W-TP6S (5)	
D236	8-719-030-50	LED SEL6914W-TP6S (6)	
D237	8-719-030-50	LED SEL6914W-TP6S (7)	
D238	8-719-030-50	LED SEL6914W-TP6S (8)	
D239	8-719-030-50	LED SEL6914W-TP6S (9)	
D240	8-719-030-50	LED SEL6914W-TP6S (0)	
D241	8-719-030-50	LED SEL6914W-TP6S (DOLBY SUR)	
D242	8-719-030-50	LED SEL6914W-TP6S (THEATER)	
D243	8-719-030-50	LED SEL6914W-TP6S (LIVE)	
D244	8-719-030-50	LED SEL6914W-TP6S (HALL)	
D245	8-719-030-50	LED SEL6914W-TP6S (DANCE)	
D246	8-719-030-50	LED SEL6914W-TP6S (JAZZ)	
D247	8-719-030-50	LED SEL6914W-TP6S (OPERA)	
D248	8-719-030-50	LED SEL6914W-TP6S (CHURCH)	

Ref.No.	Part No.	Description	Remark
D249	8-719-030-50	LED SEL6914W-TP6S (STADIUM)	
D250	8-719-030-50	LED SEL6914W-TP6S (ACOUSTIC)	
D251	8-719-016-74	DIODE 1SS352	
D252	8-719-016-74	DIODE 1SS352	
		< FLUORESCENT INDICATOR, TUBE >	
FL201	1-519-724-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC201	8-759-075-35	IC TD62C950RF	
IC202	8-759-075-35	IC TD62C950RF	
IC203	8-759-182-69	IC HD6433258A79F	
IC204	8-749-920-83	IC GP1U52XB	
		< COIL >	
L201	1-410-377-31	INDUCTOR CHIP 4.7uH	
		< TRANSISTOR >	
Q201	8-729-207-68	TRANSISTOR RN2402	
Q202	8-729-805-41	TRANSISTOR 2SC3398	
Q203	8-729-805-43	TRANSISTOR 2SC3396	
Q213	8-729-805-43	TRANSISTOR 2SC3396	
Q223	8-729-805-43	TRANSISTOR 2SC3396	
		< RESISTOR >	
R201	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R202	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R203	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R204	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R205	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
△R206	1-249-381-11	CARBON 1 5% 1/4W F	
△R207	1-249-381-11	CARBON 1 5% 1/4W F	
R208	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R209	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R210	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R211	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R212	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R213	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R214	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R216	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R217	1-216-001-00	METAL CHIP 10 5% 1/10W	
R218	1-216-037-00	METAL CHIP 330 5% 1/10W	
R219	1-216-037-00	METAL CHIP 330 5% 1/10W	
R220	1-216-037-00	METAL CHIP 330 5% 1/10W	
R221	1-216-037-00	METAL CHIP 330 5% 1/10W	
R222	1-216-037-00	METAL CHIP 330 5% 1/10W	
R223	1-216-037-00	METAL CHIP 330 5% 1/10W	
R224	1-216-037-00	METAL CHIP 330 5% 1/10W	
R225	1-216-037-00	METAL CHIP 330 5% 1/10W	

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

DISPLAY

FRONT VIDEO

IMPEDANCE SELECTOR

Ref.No.	Part No.	Description	Remark
R226	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W
R227	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W
R228	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W
R229	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W
R230	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W
R231	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W
R232	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W
R233	1-216-037-00	METAL CHIP	330 5% 1/10W
R234	1-216-037-00	METAL CHIP	330 5% 1/10W
R237	1-216-073-00	METAL CHIP	10K 5% 1/10W
R238	1-216-037-00	METAL CHIP	330 5% 1/10W
R239	1-216-037-00	METAL CHIP	330 5% 1/10W
R240	1-216-025-00	METAL CHIP	100 5% 1/10W
△R241	1-249-421-11	CARBON	2. 2K 5% 1/4W F
△R242	1-249-421-11	CARBON	2. 2K 5% 1/4W F
△R243	1-249-421-11	CARBON	2. 2K 5% 1/4W F
R245	1-216-001-00	METAL CHIP	10 5% 1/10W
△R246	1-247-807-31	CARBON	100 5% 1/4W F
△R247	1-247-807-31	CARBON	100 5% 1/4W F
R248	1-216-049-00	METAL CHIP	1K 5% 1/10W
R249	1-216-049-00	METAL CHIP	1K 5% 1/10W
R250	1-216-033-00	METAL CHIP	220 5% 1/10W
R251	1-216-049-00	METAL CHIP	1K 5% 1/10W
R252	1-216-049-00	METAL CHIP	1K 5% 1/10W
R265	1-216-001-00	METAL CHIP	10 5% 1/10W
< SWITCH >			
S201	1-554-303-21	SWITCH, TACTILE (DISPLAY GRAPHIC)	
S202	1-554-303-21	SWITCH, TACTILE (DISPLAY INDEX)	
S203	1-554-303-21	SWITCH, TACTILE (INDEX SELECT/TUNING-)	
S204	1-554-303-21	SWITCH, TACTILE (INDEX SELECT/TUNING+)	
S205	1-554-303-21	SWITCH, TACTILE (PRESET TUNING-)	
S206	1-554-303-21	SWITCH, TACTILE (PRESET TUNING+)	
S207	1-554-303-21	SWITCH, TACTILE (TUNER TUNING LEVEL)	
S208	1-554-303-21	SWITCH, TACTILE (TUNER MEMORY)	
S209	1-554-303-21	SWITCH, TACTILE (TUNER DIRECT TUNING)	
S210	1-554-303-21	SWITCH, TACTILE (TUNER FM MODE)	
S211	1-554-303-21	SWITCH, TACTILE (TUNER AM/FM)	
S212	1-554-303-21	SWITCH, TACTILE (SOUND FILD LINK).	
S213	1-554-303-21	SWITCH, TACTILE (SOUND FILD ON/OFF)	
S214	1-554-303-21	SWITCH, TACTILE (SOUND FILD USER/PRESED)	
S215	1-554-303-21	SWITCH, TACTILE (PROLOGIC MODE)	
S216	1-554-303-21	SWITCH, TACTILE (EQUALIZER FLAT)	
S217	1-554-303-21	SWITCH, TACTILE (EQUALIZER SLOPE)	
S218	1-554-303-21	SWITCH, TACTILE (EQUQLIZER BAND)	
S222	1-554-303-21	SWITCH, TACTILE (EDIT VIDEO)	
S223	1-554-303-21	SWITCH, TACTILE (EDIT AUDIO)	
S224	1-554-303-21	SWITCH, TACTILE (MONITOR TAPE 2)	
S225	1-554-303-21	SWITCH, TACTILE (SHIFT)	

Ref.No.	Part No.	Description	Remark
S226	1-554-303-21	SWITCH, TACTILE (1 DOLBY SUR)	
S227	1-554-303-21	SWITCH, TACTILE (2 THEATER)	
S228	1-554-303-21	SWITCH, TACTILE (3 VIDEO 1 LIVE)	
S229	1-554-303-21	SWITCH, TACTILE (CURSOR MODE)	
S230	1-554-303-21	SWITCH, TACTILE (D. B. F. B)	
S231	1-554-303-21	SWITCH, TACTILE (MUTING -20dB)	
S232	1-554-303-21	SWITCH, TACTILE (4 VIDEO 2 HALL)	
S233	1-554-303-21	SWITCH, TACTILE (5 VIDEO 3 DANCE)	
S234	1-554-303-21	SWITCH, TACTILE (6 TAPE 1 JAZZ)	
S235	1-554-303-21	SWITCH, TACTILE (MODE SELECTOR)	
S236	1-554-303-21	SWITCH, TACTILE (▽)	
S237	1-554-303-21	SWITCH, TACTILE (△)	
S238	1-554-303-21	SWITCH, TACTILE (7 DAT OPERA)	
S239	1-554-303-21	SWITCH, TACTILE (8 CD CHURCH)	
S240	1-554-303-21	SWITCH, TACTILE (9 TUNER STADIUM)	
S241	1-554-303-21	SWITCH, TACTILE (0 PHONO ACOUSTIC)	
S242	1-554-303-21	SWITCH, TACTILE (<)	
S243	1-554-303-21	SWITCH, TACTILE (>)	

*	1-644-270-11	FRONT VIDEO BOARD	

< CONNECTOR >			
* CNS153 1-565-482-11 CONNECTOR, BOARD TO BOARD 6P			
< JACK >			
J131	1-580-174-31	JACK, PIN (3P FRONT)(VIDEO 3 INPUT)	

*	1-647-965-11	IMPEDANCE SELECTOR BOARD	

< CONNECTOR >			
CNP16011-691-766-11 PLUG (MICRO CONNECTOR) 4P			
* CNP16021-564-506-11 PLUG, CONNECTOR 3P			
< TRANSISTOR >			
Q1701	8-729-620-05	TRANSISTOR 2SC2603-EF	
< RESISTOR >			
R1701	1-249-429-11	CARBON 10K 5% 1/4W	
< SWITCH >			
S602	1-571-083-11	SWITCH, SLIDE (FRONT SPEAKERS IMPEDANCE SELECTOR)	

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				Ref. No.	Part No.	Description	Remark			
*	A-4360-932-A	MAIN BOARD, COMPLETE *****					C714	1-124-925-11	ELECT	2. 2uF	20%	100V	
	7-682-548-04	SCREW +BVT 3X8 (S)					C715	1-124-472-11	ELECT	470uF	20%	10V	
*	4-904-446-01	PLATE, GROUND					C757	1-124-477-11	ELECT	47uF	20%	25V	
*	4-942-204-01	PLATE, GROUND					C758	1-102-233-00	CERAMIC	33PF	10%	500V	
*	4-880-403-11	HEAT SINK					C759	1-102-233-00	CERAMIC	33PF	10%	500V	
*	3-309-144-21	HEAT SINK											
*	4-931-903-01	HEAT SINK (DI)					C761	1-136-165-00	FILM	0. 1uF	5%	50V	
	< CAPACITOR >						C762	1-136-157-00	FILM	0. 022uF	5%	50V	
C251	1-124-925-11	ELECT	2. 2uF	20%	100V		C963	1-126-955-11	ELECT	4700uF	20%	35V	
C252	1-164-159-11	CERAMIC	0. 1uF		50V		C964	1-124-910-11	ELECT	47uF	20%	50V	
C254	1-164-159-11	CERAMIC	0. 1uF		50V		C965	1-126-955-11	ELECT	4700uF	20%	35V	
C255	1-164-159-11	CERAMIC	0. 1uF		50V								
C257	1-162-294-31	CERAMIC	0. 001uF	10%	50V		C966	1-124-477-11	ELECT	47uF	20%	25V	
							C967	1-124-477-11	ELECT	47uF	20%	25V	
C501	1-162-282-31	CERAMIC	100PF	10%	50V		C968	1-124-898-11	ELECT	4700uF	20%	16V	
C502	1-124-927-11	ELECT	4. 7uF	20%	100V		C969	1-124-477-11	ELECT	47uF	20%	25V	
C503	1-124-477-11	ELECT	47uF	20%	25V		C971	1-124-667-11	ELECT	10uF	20%	100V	
C504	1-130-480-00	MYLAR	0. 0056uF	5%	50V								
C505	1-106-347-00	MYLAR	1500PF	5%	200V		C980	1-106-391-12	MYLAR	0. 1uF	5%	200V	
							C981	1-106-391-12	MYLAR	0. 1uF	5%	200V	
C506	1-124-927-11	ELECT	4. 7uF	20%	100V		C982	1-125-752-11	ELECT	12000uF	20%	71V	
C513	1-162-294-31	CERAMIC	0. 001uF	10%	50V		C983	1-125-752-11	ELECT	12000uF	20%	71V	
C515	1-162-294-31	CERAMIC	0. 001uF	10%	50V		C991	1-164-096-11	CERAMIC	0. 01uF		50V	
C516	1-162-294-31	CERAMIC	0. 001uF	10%	50V								
C526	1-164-159-11	CERAMIC	0. 1uF		50V		C992	1-164-096-11	CERAMIC	0. 01uF		50V	
							C993	1-164-096-11	CERAMIC	0. 01uF		50V	
							C994	1-164-096-11	CERAMIC	0. 01uF		50V	
							< FILTER >						
C551	1-162-282-31	CERAMIC	100PF	10%	50V		CF251	1-567-928-11	VIBLATOR, CERAMIC (10MHz)				
C552	1-124-927-11	ELECT	4. 7uF	20%	100V		< CONNECTOR >						
C553	1-124-477-11	ELECT	47uF	20%	25V								
C554	1-130-480-00	MYLAR	0. 0056uF	5%	50V		* CNP153	1-560-330-00	CONNECTOR PIN (L)				
C555	1-106-347-00	MYLAR	1500PF	5%	200V		CNP154	1-691-170-11	PIN, CONNECTOR 13P				
							CNP251	1-691-767-11	PLUG (MICRO CONNECTOR) 5P				
C556	1-124-927-11	ELECT	4. 7uF	20%	100V		* CNP253	1-564-506-11	PLUG, CONNECTOR 3P				
C590	1-124-927-11	ELECT	4. 7uF	20%	100V		* CNP551	1-564-506-11	PLUG, CONNECTOR 3P				
C651	1-124-907-11	ELECT	10uF	20%	50V								
C652	1-164-083-11	CERAMIC	680PF	10%	50V		* CNP554	1-564-506-11	PLUG, CONNECTOR 3P				
C654	1-161-959-00	CERAMIC	22PF	10%	500V		* CNP651	1-564-506-11	PLUG, CONNECTOR 3P				
							* CNP652	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P				
C655	1-124-477-11	ELECT	47uF	20%	25V		* CNP653	1-564-509-11	PLUG, CONNECTOR 6P				
C656	1-164-014-11	CERAMIC	5PF	0. 25PF	50V		* CNP654	1-564-507-11	PLUG, CONNECTOR 4P				
C657	1-161-959-00	CERAMIC	22PF	10%	500V								
C658	1-126-022-11	ELECT	47uF	20%	10V		CNP751	1-691-163-11	PIN, CONNECTOR 6P				
C659	1-136-157-00	FILM	0. 022uF	5%	50V		CNP752	1-691-162-11	PIN, CONNECTOR 5P				
							CNP753	1-691-165-11	PIN, CONNECTOR 8P				
C661	1-136-165-00	FILM	0. 1uF	5%	50V		* CNP754	1-564-242-00	PIN, CONNECTOR 5P				
C663	1-164-077-11	CERAMIC	220PF	10%	50V		CNP951	1-564-104-00	PIN, CONNECTOR 3P				
C680	1-124-931-11	ELECT	47uF	20%	100V								
C707	1-124-477-11	ELECT	47uF	20%	25V		CNP953	1-564-242-00	PIN, CONNECTOR 5P				
C708	1-102-233-00	CERAMIC	33PF	10%	500V		< CONNECTOR >						
C709	1-102-233-00	CERAMIC	33PF	10%	500V		CNS252	1-568-838-11	SOCKET, CONNECTOR 21P				
C711	1-136-165-00	FILM	0. 1uF	5%	50V		* CNS253	1-568-824-11	SOCKET, CONNECTOR 5P				
C712	1-136-157-00	FILM	0. 022uF	5%	50V								

MAIN

Ref. No.	Part No.	Description	Remark
CNS351	1-695-218-11	SOCKET, CONNECTOR 33P	
		< DIODE >	
D252	8-719-987-63	DIODE 1N4148M	
D501	8-719-987-63	DIODE 1N4148M	
D610	8-719-987-63	DIODE 1N4148M	
D623	8-719-987-63	DIODE 1N4148M	
D651	8-719-933-35	DIODE HZS6A3L	
D652	8-719-987-63	DIODE 1N4148M	
D654	8-719-815-85	DIODE 1S1585	
D705	8-719-987-63	DIODE 1N4148M	
D716	8-719-815-85	DIODE 1S1585	
D718	8-719-987-63	DIODE 1N4148M	
D720	8-719-987-63	DIODE 1N4148M	
D723	8-719-987-63	DIODE 1N4148M	
D731	8-719-987-63	DIODE 1N4148M	
D766	8-719-815-85	DIODE 1S1585	
D963	8-719-002-70	DIODE UZL-36L	
D970	8-719-312-09	DIODE RBA-402	
D971	8-719-312-09	DIODE RBA-402	
D973	8-719-987-63	DIODE 1N4148M	
D980	8-719-302-38	DIODE RBV-602-01	
		< IC >	
IC150	8-759-177-83	IC HD6433258-A74F	
IC231	8-759-820-62	IC LB1639	
IC501	8-759-111-44	IC UPC4570C-1	
IC510	8-759-805-14	IC LC7822	
IC511	8-759-805-14	IC LC7822	
IC514	8-759-801-01	IC LC4966	
IC951	8-759-604-40	IC M5F78M15L	
IC952	8-759-604-46	IC M5F79M15L	
IC953	8-759-604-35	IC M5F78M05L	
		< JACK >	
J501	1-691-260-11	JACK, PIN 6P (PHONO IN/CD IN/DAT(REC OUT))	
J502	1-691-260-11	JACK, PIN 6P (DAT IN/TAPE 1(REC OUT/IN))	
J503	1-691-260-11	JACK, PIN 6P (VIDEO 2 AUDIO IN/VIDEO 1(OUT/IN))	
J504	1-573-520-11	JACK, PIN 4P (TAPE 2(REC OUT/IN))	
		< COIL >	
L602	1-420-872-00	COIL, AIR CORE	
L701	1-420-872-00	COIL, AIR CORE	
L751	1-420-872-00	COIL, AIR CORE	
		< TRANSISTOR >	
Q250	8-729-119-76	TRANSISTOR 2SA1175-HFE	

Ref. No.	Part No.	Description	Remark
Q257	8-729-900-63	TRANSISTOR DTA124ES	
Q501	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q502	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q503	8-729-900-61	TRANSISTOR DTA114ES	
Q507	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q508	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q509	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q510	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q511	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q512	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q520	8-729-900-80	TRANSISTOR DTC114ES	
Q521	8-729-900-61	TRANSISTOR DTA114ES	
Q522	8-729-900-80	TRANSISTOR DTC114ES	
Q523	8-729-900-61	TRANSISTOR DTA114ES	
Q552	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q644	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q651	8-729-620-18	TRANSISTOR 2SA979-FG	
Q652	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q653	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q655	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q656	8-729-141-06	TRANSISTOR 2SA1142-QPE	
Q657	8-729-209-15	TRANSISTOR 2SD2012	
Q658	8-729-141-05	TRANSISTOR 2SC2682-QPE	
Q662	8-729-141-46	TRANSISTOR 2SC4431-LK	
Q663	8-729-141-37	TRANSISTOR 2SA1684-LK	
Q664	8-729-321-24	TRANSISTOR 2SA1672-OY	
Q665	8-729-321-21	TRANSISTOR 2SC4387-OY	
Q667	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q702	8-729-209-15	TRANSISTOR 2SD2012	
Q704	8-729-141-46	TRANSISTOR 2SC4431-LK	
Q705	8-729-320-96	TRANSISTOR 2SC2921-OPY	
Q708	8-729-141-37	TRANSISTOR 2SA1684-LK	
Q709	8-729-320-73	TRANSISTOR 2SA1215-OY	
Q712	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q713	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q714	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q715	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q716	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q752	8-729-209-15	TRANSISTOR 2SD2012	
Q754	8-729-141-46	TRANSISTOR 2SC4431-LK	
Q755	8-729-320-96	TRANSISTOR 2SC2921-OPY	
Q758	8-729-141-37	TRANSISTOR 2SA1684-LK	
Q759	8-729-320-73	TRANSISTOR 2SA1215-OY	
Q767	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q961	8-729-209-15	TRANSISTOR 2SD2012	
		< RESISTOR >	
R114	1-249-417-11	CARBON 1K 5% 1/4W	
R116	1-249-417-11	CARBON 1K 5% 1/4W	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R138	1-249-417-11	CARBON	1K	5%	1/4W	R551	1-249-411-11	CARBON	330	5%	1/4W
R141	1-249-417-11	CARBON	1K	5%	1/4W	R552	1-249-441-11	CARBON	100K	5%	1/4W
R191	1-249-417-11	CARBON	1K	5%	1/4W	R553	1-249-441-11	CARBON	100K	5%	1/4W
R251	1-249-422-11	CARBON	2. 7K	5%	1/4W	R554	1-249-416-11	CARBON	820	5%	1/4W
R252	1-249-441-11	CARBON	100K	5%	1/4W	R555	1-247-897-11	CARBON	560K	5%	1/4W
R253	1-249-425-11	CARBON	4. 7K	5%	1/4W	R556	1-249-437-11	CARBON	47K	5%	1/4W
R254	1-249-417-11	CARBON	1K	5%	1/4W	R557	1-247-903-00	CARBON	1M	5%	1/4W
R255	1-247-903-00	CARBON	1M	5%	1/4W	R558	1-249-409-11	CARBON	220	5%	1/4W
R258	1-249-437-11	CARBON	47K	5%	1/4W	R559	1-249-409-11	CARBON	220	5%	1/4W
R266	1-249-429-11	CARBON	10K	5%	1/4W	R560	1-249-438-11	CARBON	56K	5%	1/4W
R267	1-249-429-11	CARBON	10K	5%	1/4W	R561	1-249-417-11	CARBON	1K	5%	1/4W
R268	1-249-429-11	CARBON	10K	5%	1/4W	R563	1-249-417-11	CARBON	1K	5%	1/4W
R269	1-249-413-11	CARBON	470	5%	1/4W	R564	1-249-417-11	CARBON	1K	5%	1/4W
R273	1-249-437-11	CARBON	47K	5%	1/4W	R565	1-249-417-11	CARBON	1K	5%	1/4W
R274	1-249-429-11	CARBON	10K	5%	1/4W	R567	1-249-417-11	CARBON	1K	5%	1/4W
R278	1-249-437-11	CARBON	47K	5%	1/4W	R568	1-249-417-11	CARBON	1K	5%	1/4W
R501	1-249-411-11	CARBON	330	5%	1/4W	R571	1-249-417-11	CARBON	1K	5%	1/4W
R502	1-249-441-11	CARBON	100K	5%	1/4W	R574	1-249-441-11	CARBON	100K	5%	1/4W
R503	1-249-441-11	CARBON	100K	5%	1/4W	R589	1-249-433-11	CARBON	22K	5%	1/4W
R504	1-249-416-11	CARBON	820	5%	1/4W	R590	1-249-426-11	CARBON	5. 6K	5%	1/4W
R505	1-247-897-11	CARBON	560K	5%	1/4W	R591	1-249-441-11	CARBON	100K	5%	1/4W
R506	1-249-437-11	CARBON	47K	5%	1/4W	R592	1-249-433-11	CARBON	22K	5%	1/4W
R507	1-247-903-00	CARBON	1M	5%	1/4W	R593	1-249-426-11	CARBON	5. 6K	5%	1/4W
R508	1-249-409-11	CARBON	220	5%	1/4W	R594	1-249-426-11	CARBON	5. 6K	5%	1/4W
R509	1-249-409-11	CARBON	220	5%	1/4W	R595	1-249-426-11	CARBON	5. 6K	5%	1/4W
R510	1-249-438-11	CARBON	56K	5%	1/4W	R596	1-249-426-11	CARBON	5. 6K	5%	1/4W
R511	1-249-417-11	CARBON	1K	5%	1/4W	R597	1-249-417-11	CARBON	1K	5%	1/4W
R513	1-249-417-11	CARBON	1K	5%	1/4W	R598	1-249-417-11	CARBON	1K	5%	1/4W
R514	1-249-417-11	CARBON	1K	5%	1/4W	R599	1-249-426-11	CARBON	5. 6K	5%	1/4W
R515	1-249-417-11	CARBON	1K	5%	1/4W	R635	1-260-072-11	CARBON	4. 7	5%	1/2W
R517	1-249-417-11	CARBON	1K	5%	1/4W	R644	1-249-429-11	CARBON	10K	5%	1/4W
R518	1-249-417-11	CARBON	1K	5%	1/4W	R650	1-249-434-11	CARBON	27K	5%	1/4W
R520	1-249-441-11	CARBON	100K	5%	1/4W	R651	1-249-417-11	CARBON	1K	5%	1/4W
R521	1-249-417-11	CARBON	1K	5%	1/4W	R652	1-249-435-11	CARBON	33K	5%	1/4W
R522	1-249-429-11	CARBON	10K	5%	1/4W	△R653	1-249-409-11	CARBON	220	5%	1/4W
R523	1-249-426-11	CARBON	5. 6K	5%	1/4W	△R654	1-249-409-11	CARBON	220	5%	1/4W
R524	1-249-441-11	CARBON	100K	5%	1/4W	R655	1-249-415-11	CARBON	680	5%	1/4W
△R526	1-247-811-31	CARBON	150	5%	1/4W F	R656	1-249-421-11	CARBON	2. 2K	5%	1/4W
R531	1-249-425-11	CARBON	4. 7K	5%	1/4W	R657	1-249-425-11	CARBON	4. 7K	5%	1/4W
R533	1-249-425-11	CARBON	4. 7K	5%	1/4W	R658	1-249-435-11	CARBON	33K	5%	1/4W
R539	1-249-433-11	CARBON	22K	5%	1/4W	R659	1-249-426-11	CARBON	5. 6K	5%	1/4W
R540	1-249-413-11	CARBON	470	5%	1/4W	R662	1-249-411-11	CARBON	330	5%	1/4W
R541	1-249-413-11	CARBON	470	5%	1/4W	R663	1-249-435-11	CARBON	33K	5%	1/4W
R542	1-249-413-11	CARBON	470	5%	1/4W	△R664	1-249-397-11	CARBON	22	5%	1/4W
R543	1-249-413-11	CARBON	470	5%	1/4W	△R665	1-247-807-31	CARBON	100	5%	1/4W F
R544	1-249-413-11	CARBON	470	5%	1/4W	R666	1-249-419-11	CARBON	1. 5K	5%	1/4W
R545	1-249-413-11	CARBON	470	5%	1/4W	R667	1-249-437-11	CARBON	47K	5%	1/4W
R547	1-249-417-11	CARBON	1K	5%	1/4W	R668	1-249-414-11	CARBON	560	5%	1/4W
R548	1-249-417-11	CARBON	1K	5%	1/4W	△R669	1-249-397-11	CARBON	22	5%	1/4W F

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

MAIN POWER SUPPLY

Ref. No.	Part No.	Description	Remark
△R670	1-247-807-31	CARBON	100 5% 1/4W F
R671	1-249-431-11	CARBON	15K 5% 1/4W
R672	1-260-076-11	CARBON	10 5% 1/2W
△R675	1-249-389-11	CARBON	4.7 5% 1/4W F
△R676	1-249-411-11	CARBON	330 5% 1/4W
△R677	1-249-389-11	CARBON	4.7 5% 1/4W F
△R678	1-217-611-00	RES, METAL PLATE	0.1
△R679	1-217-611-00	RES, METAL PLATE	0.1
△R680	1-249-397-11	CARBON	22 5% 1/4W F
R681	1-249-419-11	CARBON	1.5K 5% 1/4W
R683	1-249-431-11	CARBON	15K 5% 1/4W
R692	1-249-435-11	CARBON	33K 5% 1/4W
R702	1-249-429-11	CARBON	10K 5% 1/4W
△R707	1-247-807-31	CARBON	100 5% 1/4W F
R708	1-249-419-11	CARBON	1.5K 5% 1/4W
R709	1-249-437-11	CARBON	47K 5% 1/4W
△R710	1-247-807-31	CARBON	100 5% 1/4W F
△R711	1-247-807-31	CARBON	100 5% 1/4W F
△R712	1-249-393-11	CARBON	10 5% 1/4W F
△R713	1-217-611-00	RES, METAL PLATE	0.1
△R714	1-217-611-00	RES, METAL PLATE	0.1
△R715	1-249-393-11	CARBON	10 5% 1/4W F
R725	1-249-419-11	CARBON	1.5K 5% 1/4W
R728	1-249-431-11	CARBON	15K 5% 1/4W
R729	1-260-072-11	CARBON	4.7 5% 1/2W
R730	1-260-076-11	CARBON	10 5% 1/2W
R731	1-249-429-11	CARBON	10K 5% 1/4W
R732	1-249-434-11	CARBON	27K 5% 1/4W
R733	1-249-437-11	CARBON	47K 5% 1/4W
R734	1-249-417-11	CARBON	1K 5% 1/4W
R735	1-249-434-11	CARBON	27K 5% 1/4W
△R737	1-249-401-11	CARBON	47 5% 1/4W F
△R757	1-247-807-31	CARBON	100 5% 1/4W F
R758	1-249-419-11	CARBON	1.5K 5% 1/4W
R759	1-249-437-11	CARBON	47K 5% 1/4W
△R760	1-247-807-31	CARBON	100 5% 1/4W F
△R761	1-247-807-31	CARBON	100 5% 1/4W F
△R762	1-249-393-11	CARBON	10 5% 1/4W F
△R763	1-217-611-00	RES, METAL PLATE	0.1
△R764	1-217-611-00	RES, METAL PLATE	0.1
△R765	1-249-393-11	CARBON	10 5% 1/4W F
R775	1-249-419-11	CARBON	1.5K 5% 1/4W
R778	1-249-431-11	CARBON	15K 5% 1/4W
R779	1-260-072-11	CARBON	4.7 5% 1/2W
R780	1-260-076-11	CARBON	10 5% 1/2W
△R783	1-247-743-11	CARBON	220 5% 1/2W F
R785	1-249-437-11	CARBON	47K 5% 1/4W
△R787	1-249-401-11	CARBON	47 5% 1/4W F
R966	1-249-381-11	CARBON	1 5% 1/4W

Ref. No.	Part No.	Description	Remark
R967	1-249-385-11	CARBON	2.2 5% 1/6W
△R968	1-249-403-11	CARBON	68 5% 1/4W F
△R969	1-249-403-11	CARBON	68 5% 1/4W F
R970	1-249-426-11	CARBON	5.6K 5% 1/4W
△R971	1-215-910-00	METAL OXIDE	68 5% 3W F
△R972	1-215-910-00	METAL OXIDE	68 5% 3W F
△R973	1-249-397-11	CARBON	22 5% 1/4W F
R1708	1-249-414-11	CARBON	560 5% 1/4W
R1709	1-249-431-11	CARBON	15K 5% 1/4W
R1758	1-249-414-11	CARBON	560 5% 1/4W
R1759	1-249-431-11	CARBON	15K 5% 1/4W
< RELAY >			
RY501	1-515-614-11	RELAY	
RY602	1-515-676-11	RELAY	
RY701	1-515-741-11	RELAY	
< TEST PIN >			
* TP701	1-560-062-00	PIN, CONNECTOR 4P	
* TP702	1-560-060-00	PIN, CONNECTOR 2P	

* A-4365-126-A POWER SUPPLY BOARD, COMPLET			

1-533-233-11 HOLDER, FUSE			
* 3-309-144-21 HEAT SINK			
* 4-959-363-01 PLATE (V.D.), GROUND			
7-682-547-09 SCREW +BVTT 3X6 (S)			
< BASE POST >			
* BP901	1-535-139-00	BASE POST 19MM (10MM PITCH) 2P	
< CAPACITOR >			
△C901	1-161-744-51	CERAMIC	0.01uF 400V
C951	1-101-004-00	CERAMIC	0.01uF 50V
C952	1-101-004-00	CERAMIC	0.01uF 50V
C953	1-164-073-11	CERAMIC	100PF 10% 50V
C954	1-124-907-11	ELECT	10uF 20% 50V
C955	1-124-477-11	ELECT	47uF 20% 25V
C956	1-124-464-11	ELECT	0.22uF 20% 50V
C957	1-124-902-00	ELECT	0.47uF 20% 50V
C958	1-101-004-00	CERAMIC	0.01uF 50V
C959	1-124-557-11	ELECT	1000uF 20% 25V
C960	1-124-903-11	ELECT	1uF 20% 50V
< CONNECTOR >			
* CNP901	1-564-321-00	PIN, CONNECTOR 2P	
* CNP902	1-564-321-00	PIN, CONNECTOR 2P	

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

POWER SUPPLY

REAR AMPLIFIER

Ref.No.	Part No.	Description	Remark
< CONNECTOR >			
△CNS901	1-540-060-11	OUTLET, AC (POLAR) (AC OUTLET)	
CNS951	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
< DIODE >			
D951	8-719-987-63	DIODE 1N4148M	
D952	8-719-987-63	DIODE 1N4148M	
D953	8-719-987-63	DIODE 1N4148M	
D954	8-719-200-02	DIODE 10E2	
D955	8-719-200-02	DIODE 10E2	
D956	8-719-200-02	DIODE 10E2	
D957	8-719-200-02	DIODE 10E2	
D958	8-719-933-41	DIODE HZS6C3L	
D959	8-719-985-53	DIODE HZS4ALL	
D960	8-719-987-63	DIODE 1N4148M	
D961	8-719-933-41	DIODE HZS6C3L	
< FUSE >			
△F902	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	
< TRANSISTOR >			
Q952	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q953	8-729-209-15	TRANSISTOR 2SD2012	
Q954	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q955	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q956	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q957	8-729-900-63	TRANSISTOR DTA124ES	
Q958	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q959	8-729-900-89	TRANSISTOR DTC144ES	
< RESISTOR >			
△R901	1-202-725-00	SOLID 3.3M 10% 1/2W	
△R951	1-247-691-11	CARBON 18 5% 1/4W	
R952	1-249-417-11	CARBON 1K 5% 1/4W	
R954	1-249-433-11	CARBON 22K 5% 1/4W	
R955	1-249-437-11	CARBON 47K 5% 1/4W	
R956	1-249-425-11	CARBON 4.7K 5% 1/4W	
R957	1-249-429-11	CARBON 10K 5% 1/4W	
R958	1-249-417-11	CARBON 1K 5% 1/4W	
R959	1-249-429-11	CARBON 10K 5% 1/4W	
R960	1-249-429-11	CARBON 10K 5% 1/4W	
R962	1-249-426-11	CARBON 5.6K 5% 1/4W	
R963	1-249-417-11	CARBON 1K 5% 1/4W	
R964	1-249-426-11	CARBON 5.6K 5% 1/4W	
R965	1-247-895-00	CARBON 470K 5% 1/4W	

Ref.No.	Part No.	Description	Remark
< RELAY >			
△RY901	1-515-701-11	RELAY	
< TRANSFORMER >			
△T901	1-448-517-21	TRANSFORMER, POWER	
△T901	1-448-517-31	TRANSFORMER, POWER	

*	A-4360-930-A	REAR AMPLIFIER BOARD, COMPLETE	

< CAPACITOR >			
C601	1-124-907-11	ELECT 10uF 20% 50V	
C602	1-162-282-31	CERAMIC 100PF 10% 50V	
C603	1-124-916-11	ELECT 22uF 20% 63V	
C604	1-124-667-11	ELECT 10uF 20% 100V	
C607	1-136-157-00	FILM 0.022uF 5% 50V	
C621	1-124-907-11	ELECT 10uF 20% 50V	
C622	1-162-282-31	CERAMIC 100PF 10% 50V	
C623	1-124-916-11	ELECT 22uF 20% 63V	
C624	1-124-667-11	ELECT 10uF 20% 100V	
C627	1-136-157-00	FILM 0.022uF 5% 50V	
< CONNECTOR >			
* CNP631	1-564-506-11	PLUG, CONNECTOR 3P	
* CNP632	1-564-506-11	PLUG, CONNECTOR 3P	
* CNP633	1-564-506-11	PLUG, CONNECTOR 3P	
CNP634	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
< IC >			
IC601	8-759-085-89	IC LM3875-S	
IC621	8-759-085-89	IC LM3875-S	
< COIL >			
L601	1-420-872-00	COIL, AIR CORE	
L621	1-420-872-00	COIL, AIR CORE	
< RESISTOR >			
R601	1-249-409-11	CARBON 220 5% 1/4W	
R602	1-249-441-11	CARBON 100K 5% 1/4W	
R603	1-249-420-11	CARBON 1.8K 5% 1/4W	
R604	1-249-441-11	CARBON 100K 5% 1/4W	
R607	1-249-438-11	CARBON 56K 5% 1/4W	
△R608	1-249-393-11	CARBON 10 5% 1/4W F	
R611	1-249-389-11	CARBON 4.7 5% 1/4W	
R621	1-249-409-11	CARBON 220 5% 1/4W	
R622	1-249-441-11	CARBON 100K 5% 1/4W	
R623	1-249-420-11	CARBON 1.8K 5% 1/4W	

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

REAR AMPLIFIER

S.IN

SPEAKER SW

SPEAKER TERMINAL

SURROUND

Ref.No.	Part No.	Description	Remark
R624	1-249-441-11	CARBON 100K 5% 1/4W	
R627	1-249-437-11	CARBON 47K 5% 1/4W	
△R628	1-249-393-11	CARBON 10 5% 1/4W F	
R631	1-249-389-11	CARBON 4.7 5% 1/4W	
△R691	1-249-401-11	CARBON 47 5% 1/4W F	

* 1-648-947-11 S. IN BOARD

< CAPACITOR >

C1101 1-163-009-11 CERAMIC CHIP 0.001uF 10% 50V

< CONNECTOR >

CNP11011-566-213-11 PIN, CONNECTOR 4P
* CNP11021-568-826-11 SOCKET, CONNECTOR 7P

< DIODE >

D1101 8-719-210-33 DIODE EC10DS2

< TRANSISTOR >

Q1101 8-729-422-29 TRANSISTOR 2SD601A-S
Q1102 8-729-805-41 TRANSISTOR 2SC3398
Q1103 8-729-805-41 TRANSISTOR 2SC3398

< RESISTOR >

R1101 1-216-033-00 METAL CHIP 220 5% 1/10W
R1102 1-216-089-91 METAL GLAZE 47K 5% 1/10W
R1103 1-216-049-00 METAL CHIP 1K 5% 1/10W
R1104 1-216-073-00 METAL CHIP 10K 5% 1/10W
R1105 1-216-073-00 METAL CHIP 10K 5% 1/10W

R1106 1-216-001-00 METAL CHIP 10 5% 1/10W

* 1-644-263-11 SPEAKER SW BOARD

< CAPACITOR >

C1701 1-162-294-31 CERAMIC 0.001uF 10% 50V

< CONNECTOR >

* CNP704 1-564-242-00 PIN, CONNECTOR 5P
* CNP710 1-564-674-11 PIN, CONNECTOR 8P

< JACK >

J703 1-563-347-11 JACK, LARGE TYPE (HEADPHONES)

Ref.No.	Part No.	Description	Remark
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< RESISTOR >

△R736 1-215-869-11 METAL OXIDE 1K 5% 1W F
△R786 1-215-869-11 METAL OXIDE 1K 5% 1W F

< SWITCH >

S701 1-571-973-11 SWITCH, ROTARY

* 1-644-261-11 SPEAKER TERMINAL BOARD

< CAPACITOR >

C641 1-162-294-31 CERAMIC 0.001uF 10% 50V
C642 1-162-294-31 CERAMIC 0.001uF 10% 50V

< CONNECTOR >

* CNP610 1-564-519-11 PLUG, CONNECTOR 4P
* CNP611 1-564-104-00 PIN, CONNECTOR (B3P-VH) 3P
* CNP614 1-564-519-11 PLUG, CONNECTOR 4P
* CNP615 1-564-518-11 PLUG, CONNECTOR 3P
* CNP715 1-564-674-11 PIN, CONNECTOR 8P

< DIODE >

D612 8-719-987-63 DIODE 1N4148M

< TRANSISTOR >

Q641 8-729-620-05 TRANSISTOR 2SC2603-EF

< RESISTOR >

R643 1-249-429-11 CARBON 10K 5% 1/4W
R1601 1-249-417-11 CARBON 1K 5% 1/4W

< RELAY >

RY603 1-515-790-11 RELAY

< TERMINAL >

TM602 1-536-706-00 TERMINAL BOARD (SP)
(CENTER SPEAKER, REAR SPEAKER)
TM701 1-536-706-00 TERMINAL BOARD (SP) (FRONT SPEAKER A, B)

* A-4360-681-A SURROUND BOARD, COMPLETE

< CAPACITOR >

C301 1-124-477-11 ELECT 47uF 20% 25V
C302 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V
C303 1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V

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

SURROUND

Ref.No.	Part No.	Description		Remark		Ref.No.	Part No.	Description		Remark
C304	1-124-477-11	ELECT	47uF	20%	25V	C371	1-163-109-00	CERAMIC CHIP	47PF	5% 50V
C305	1-136-153-00	FILM	0.01uF	5%	50V	C372	1-124-916-11	ELECT	22uF	20% 63V
C306	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C373	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V
C307	1-124-907-11	ELECT	10uF	20%	50V	C374	1-124-907-11	ELECT	10uF	20% 50V
C308	1-124-477-11	ELECT	47uF	20%	25V	C375	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V
C309	1-124-916-11	ELECT	22uF	20%	63V	C376	1-124-477-11	ELECT	47uF	20% 25V
C310	1-124-916-11	ELECT	22uF	20%	63V	C377	1-124-916-11	ELECT	22uF	20% 63V
C311	1-136-165-00	FILM	0.1uF	5%	50V	C378	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V
C312	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C382	1-130-473-00	MYLAR	0.0015uF	5% 50V
C313	1-164-068-11	CERAMIC	82PF	5%	50V	C383	1-124-907-11	ELECT	10uF	20% 50V
C315	1-130-479-00	MYLAR	0.0047uF	5%	50V	C384	1-163-001-11	CERAMIC CHIP	220PF	10% 50V
C318	1-164-057-11	CERAMIC	30PF	5%	50V	C385	1-130-478-00	MYLAR	0.0039uF	5% 50V
C319	1-164-057-11	CERAMIC	30PF	5%	50V	C386	1-124-916-11	ELECT	22uF	20% 63V
C320	1-130-472-00	MYLAR	0.0012uF	5%	50V	C392	1-124-903-11	ELECT	1uF	20% 50V
C321	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	C393	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V
C322	1-124-916-11	ELECT	22uF	20%	63V	C394	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V
C323	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C396	1-124-478-11	ELECT	100uF	20% 25V
C324	1-124-907-11	ELECT	10uF	20%	50V	C405	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V
C325	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C427	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V
C326	1-124-477-11	ELECT	47uF	20%	25V	C428	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V
C327	1-124-916-11	ELECT	22uF	20%	63V	C429	1-124-477-11	ELECT	47uF	20% 25V
C328	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C430	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V
C329	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C431	1-124-478-11	ELECT	100uF	20% 25V
C330	1-124-477-11	ELECT	47uF	20%	25V	C435	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V
C331	1-124-477-11	ELECT	47uF	20%	25V	C436	1-124-478-11	ELECT	100uF	20% 25V
C332	1-130-473-00	MYLAR	0.0015uF	5%	50V	C440	1-163-077-00	CERAMIC CHIP	0.1uF	10% 25V
C333	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C441	1-124-478-11	ELECT	100uF	20% 25V
C334	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	C442	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V
C335	1-130-478-00	MYLAR	0.0039uF	5%	50V	C446	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V
C336	1-124-916-11	ELECT	22uF	20%	63V	C451	1-163-235-11	CERAMIC CHIP	22PF	5% 50V
C337	1-136-165-00	FILM	0.1uF	5%	50V	C452	1-163-235-11	CERAMIC CHIP	22PF	5% 50V
C341	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	C468	1-124-907-11	ELECT	10uF	20% 50V
C342	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C469	1-124-907-11	ELECT	10uF	20% 50V
C343	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C470	1-124-907-11	ELECT	10uF	20% 50V
C344	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C471	1-124-907-11	ELECT	10uF	20% 50V
C346	1-124-478-11	ELECT	100uF	20%	25V	C472	1-124-907-11	ELECT	10uF	20% 50V
C351	1-124-916-11	ELECT	22uF	20%	63V	C473	1-124-907-11	ELECT	10uF	20% 50V
C352	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C474	1-124-907-11	ELECT	10uF	20% 50V
C353	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C475	1-124-907-11	ELECT	10uF	20% 50V
C354	1-136-153-00	FILM	0.01uF	5%	50V	C476	1-124-903-11	ELECT	1uF	20% 50V
C355	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C477	1-124-903-11	ELECT	1uF	20% 50V
C356	1-124-477-11	ELECT	47uF	20%	25V	C478	1-124-478-11	ELECT	100uF	20% 25V
C357	1-124-907-11	ELECT	10uF	20%	50V	C479	1-136-171-00	FILM	0.33uF	5% 50V
C359	1-124-916-11	ELECT	22uF	20%	63V	C480	1-136-165-00	FILM	0.1uF	5% 50V
C363	1-164-068-11	CERAMIC	82PF	5%	50V	C481	1-136-159-00	FILM	0.033uF	5% 50V
C365	1-130-479-00	MYLAR	0.0047uF	5%	50V	C482	1-130-479-00	MYLAR	0.0047uF	5% 50V
C368	1-164-057-11	CERAMIC	30PF	5%	50V	C483	1-130-482-00	MYLAR	0.0082uF	5% 50V
C369	1-164-057-11	CERAMIC	30PF	5%	50V	C484	1-136-158-00	FILM	0.027uF	5% 50V
C370	1-130-472-00	MYLAR	0.0012uF	5%	50V	C485	1-124-916-11	ELECT	22uF	20% 63V

SURROUND

Ref.No.	Part No.	Description	Remark
C486	1-124-478-11	ELECT 100uF	20% 25V
C487	1-124-903-11	ELECT 1uF	20% 50V
C488	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C489	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V

< CONNECTOR >

* CNP302 1-564-506-11 PLUG, CONNECTOR 3P

< CONNECTOR >

* CNS301 1-565-484-11 CONNECTOR, BOARD TO BOARD 8P
CNS303 1-695-218-11 SOCKET, CONNECTOR 33P

< FERRITE BEAD >

FB401 1-410-397-21 FERRITE BEAD INDUCTOR

< IC >

IC301 8-759-504-36 IC CS5339-KP
IC302 8-759-636-55 IC M5218AFP
IC303 8-759-708-05 IC NJM78L05A
IC304 8-759-700-65 IC NJM79L05A
IC305 8-759-636-55 IC M5218AFP

IC306 8-759-636-55 IC M5218AFP
IC307 8-759-040-59 IC LC7883K
IC308 8-759-636-55 IC M5218AFP
IC309 8-759-636-55 IC M5218AFP
IC355 8-759-636-55 IC M5218AFP

IC403 8-759-708-05 IC NJM78L05A
IC404 8-759-075-34 IC LC83015
IC405 8-752-359-50 IC CXD2564AM
IC406 8-759-165-17 IC MT4C4256-8A
IC408 8-759-708-05 IC NJM78L05A

IC418 8-759-820-11 IC LC7535
IC419 8-759-636-55 IC M5218AFP
IC420 8-759-823-24 IC LA2730
IC421 8-759-801-01 IC LC4966

< COIL >

L301 1-410-377-31 INDUCTOR CHIP 4.7uH
L302 1-410-377-31 INDUCTOR CHIP 4.7uH
L404 1-410-377-31 INDUCTOR CHIP 4.7uH
L405 1-410-377-31 INDUCTOR CHIP 4.7uH
L410 1-410-377-31 INDUCTOR CHIP 4.7uH

< TRANSISTOR >

Q301 8-729-422-29 TRANSISTOR 2SD601A-S
Q302 8-729-422-29 TRANSISTOR 2SD601A-S
Q303 8-729-422-29 TRANSISTOR 2SD601A-S
Q304 8-729-422-29 TRANSISTOR 2SD601A-S
Q305 8-729-422-29 TRANSISTOR 2SD601A-S

Ref.No.	Part No.	Description	Remark
Q306	8-729-422-29	TRANSISTOR 2SD601A-S	
Q351	8-729-422-29	TRANSISTOR 2SD601A-S	
Q352	8-729-422-29	TRANSISTOR 2SD601A-S	
Q353	8-729-422-29	TRANSISTOR 2SD601A-S	
Q354	8-729-422-29	TRANSISTOR 2SD601A-S	

Q355 8-729-422-29 TRANSISTOR 2SD601A-S
Q356 8-729-422-29 TRANSISTOR 2SD601A-S
Q406 8-729-207-68 TRANSISTOR RN2402
Q407 8-729-207-68 TRANSISTOR RN2402
Q408 8-729-207-68 TRANSISTOR RN2402

Q409 8-729-207-68 TRANSISTOR RN2402
Q411 8-729-805-45 TRANSISTOR 2SC3395
Q412 8-729-901-06 TRANSISTOR DTA144EK
Q413 8-729-805-45 TRANSISTOR 2SC3395

< RESISTOR >

R301 1-216-085-00 METAL CHIP 33K 5% 1/10W
R302 1-216-017-00 METAL CHIP 47 5% 1/10W
R303 1-216-025-00 METAL CHIP 100 5% 1/10W
R304 1-216-073-00 METAL CHIP 10K 5% 1/10W
R305 1-216-097-00 METAL CHIP 100K 5% 1/10W

R306 1-216-097-00 METAL CHIP 100K 5% 1/10W
R308 1-216-085-00 METAL CHIP 33K 5% 1/10W
R309 1-216-113-00 METAL CHIP 470K 5% 1/10W
R311 1-216-689-11 METAL CHIP 39K 0.5% 1/10W
R312 1-216-689-11 METAL CHIP 39K 0.5% 1/10W

R313 1-216-079-00 METAL CHIP 18K 5% 1/10W
R314 1-216-079-00 METAL CHIP 18K 5% 1/10W
R315 1-216-093-00 METAL CHIP 68K 5% 1/10W
R316 1-216-093-00 METAL CHIP 68K 5% 1/10W
R317 1-216-053-00 METAL CHIP 1.5K 5% 1/10W

R318 1-216-053-00 METAL CHIP 1.5K 5% 1/10W
R322 1-216-097-00 METAL CHIP 100K 5% 1/10W
R323 1-216-062-00 METAL CHIP 3.6K 5% 1/10W
R324 1-216-065-00 METAL CHIP 4.7K 5% 1/10W
R325 1-216-061-00 METAL CHIP 3.3K 5% 1/10W

R326 1-216-097-00 METAL CHIP 100K 5% 1/10W
R327 1-216-073-00 METAL CHIP 10K 5% 1/10W
R328 1-216-065-00 METAL CHIP 4.7K 5% 1/10W
R329 1-216-055-00 METAL CHIP 1.8K 5% 1/10W
R330 1-216-049-00 METAL CHIP 1K 5% 1/10W

R331 1-216-097-00 METAL CHIP 100K 5% 1/10W
R332 1-216-054-00 METAL GLAZE 1.6K 5% 1/10W
R333 1-216-065-00 METAL CHIP 4.7K 5% 1/10W
R334 1-216-105-00 METAL CHIP 220K 5% 1/10W
R335 1-216-049-00 METAL CHIP 1K 5% 1/10W

R336 1-216-049-00 METAL CHIP 1K 5% 1/10W
R337 1-216-065-00 METAL CHIP 4.7K 5% 1/10W
R338 1-216-065-00 METAL CHIP 4.7K 5% 1/10W

SURROUND

Ref. No.	Part No.	Description	Remark		
R341	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R342	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R343	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R344	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R346	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R347	1-216-049-00	METAL CHIP	1K	5%	1/10W
R348	1-216-049-00	METAL CHIP	1K	5%	1/10W
R349	1-216-049-00	METAL CHIP	1K	5%	1/10W
R350	1-216-049-00	METAL CHIP	1K	5%	1/10W
R351	1-216-001-00	METAL CHIP	10	5%	1/10W
R352	1-216-017-00	METAL CHIP	47	5%	1/10W
R353	1-216-025-00	METAL CHIP	100	5%	1/10W
R354	1-216-073-00	METAL CHIP	10K	5%	1/10W
R355	1-216-097-00	METAL CHIP	100K	5%	1/10W
R356	1-216-097-00	METAL CHIP	100K	5%	1/10W
R358	1-216-085-00	METAL CHIP	33K	5%	1/10W
R359	1-216-085-00	METAL CHIP	33K	5%	1/10W
R360	1-216-041-00	METAL CHIP	470	5%	1/10W
R361	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R362	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R363	1-216-079-00	METAL CHIP	18K	5%	1/10W
R364	1-216-079-00	METAL CHIP	18K	5%	1/10W
R365	1-216-093-00	METAL CHIP	68K	5%	1/10W
R366	1-216-093-00	METAL CHIP	68K	5%	1/10W
R367	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R368	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R370	1-216-009-00	METAL CHIP	22	5%	1/10W
R371	1-216-009-00	METAL CHIP	22	5%	1/10W
R372	1-216-097-00	METAL CHIP	100K	5%	1/10W
R373	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R374	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R375	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R376	1-216-097-00	METAL CHIP	100K	5%	1/10W
R377	1-216-073-00	METAL CHIP	10K	5%	1/10W
R378	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R379	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R380	1-216-049-00	METAL CHIP	1K	5%	1/10W
R381	1-216-097-00	METAL CHIP	100K	5%	1/10W
R382	1-216-054-00	METAL GLAZE	1.6K	5%	1/10W
R383	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R384	1-216-105-00	METAL CHIP	220K	5%	1/10W
R385	1-216-049-00	METAL CHIP	1K	5%	1/10W
R386	1-216-049-00	METAL CHIP	1K	5%	1/10W
R387	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R388	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R390	1-216-041-00	METAL CHIP	470	5%	1/10W
R391	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R392	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R393	1-216-061-00	METAL CHIP	3.3K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
R394	1-216-049-00	METAL CHIP	1K	5%	1/10W
R396	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R399	1-216-295-11	METAL GLAZE	0	5%	1/10W
R403	1-216-080-00	METAL CHIP	20K	5%	1/10W
R404	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R411	1-216-097-00	METAL CHIP	100K	5%	1/10W
R412	1-216-097-00	METAL CHIP	100K	5%	1/10W
R413	1-216-049-00	METAL CHIP	1K	5%	1/10W
R416	1-216-049-00	METAL CHIP	1K	5%	1/10W
R418	1-216-049-00	METAL CHIP	1K	5%	1/10W
R426	1-216-041-00	METAL CHIP	470	5%	1/10W
R427	1-216-025-00	METAL CHIP	100	5%	1/10W
R436	1-216-121-00	METAL CHIP	1M	5%	1/10W
R437	1-216-121-00	METAL CHIP	1M	5%	1/10W
R438	1-216-121-00	METAL CHIP	1M	5%	1/10W
R439	1-216-121-00	METAL CHIP	1M	5%	1/10W
R440	1-216-121-00	METAL CHIP	1M	5%	1/10W
R441	1-216-081-00	METAL CHIP	22K	5%	1/10W
R442	1-216-081-00	METAL CHIP	22K	5%	1/10W
R443	1-216-049-00	METAL CHIP	1K	5%	1/10W
R451	1-216-097-00	METAL CHIP	100K	5%	1/10W
R452	1-216-097-00	METAL CHIP	100K	5%	1/10W
R453	1-216-080-00	METAL CHIP	20K	5%	1/10W
R454	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R467	1-216-080-00	METAL CHIP	20K	5%	1/10W
R468	1-216-073-00	METAL CHIP	10K	5%	1/10W
R469	1-216-107-00	METAL CHIP	270K	5%	1/10W
R470	1-216-073-00	METAL CHIP	10K	5%	1/10W
R471	1-216-077-00	METAL CHIP	15K	5%	1/10W
R472	1-216-083-00	METAL CHIP	27K	5%	1/10W
R473	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R474	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R475	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R476	1-216-107-00	METAL CHIP	270K	5%	1/10W
R477	1-216-081-00	METAL CHIP	22K	5%	1/10W
R479	1-216-031-00	METAL CHIP	180	5%	1/10W
R480	1-216-075-00	METAL CHIP	12K	5%	1/10W
R481	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R482	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R483	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R485	1-216-295-11	METAL GLAZE	0	5%	1/10W
R486	1-216-295-11	METAL GLAZE	0	5%	1/10W
R491	1-216-049-00	METAL CHIP	1K	5%	1/10W
R492	1-216-049-00	METAL CHIP	1K	5%	1/10W
R493	1-216-049-00	METAL CHIP	1K	5%	1/10W
R494	1-216-049-00	METAL CHIP	1K	5%	1/10W
R495	1-216-049-00	METAL CHIP	1K	5%	1/10W
R496	1-216-049-00	METAL CHIP	1K	5%	1/10W
R497	1-216-049-00	METAL CHIP	1K	5%	1/10W

SURROUND**SYSTEM POWER****TRANSFORMER TERMINAL (1)****TRANSFORMER TERMINAL (2)****TRANSFORMER TERMINAL (3)****TUNER VIDEO**

Ref.No.	Part No.	Description	Remark
R498	1-216-033-00	METAL CHIP	220 5% 1/10W
R499	1-216-041-00	METAL CHIP	470 5% 1/10W
< CRYSTAL >			
X402	1-567-970-11	VIBRATOR, CRYSTAL (24.576MHz)	

*	1-648-656-11	SYSTEM POWER BOARD	

< CONNECTOR >			
* CNS202	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
< SWITCH >			
S244	1-554-303-21	SWITCH, TACTILE (POWER)	

*	1-644-271-11	TRANSFORMER TERMINAL (1) BOARD	

< CONNECTOR >			
* CNP971	1-564-506-11	PLUG, CONNECTOR 3P	
CNP972	1-564-104-00	PIN, CONNECTOR 3P	
CNP973	1-564-321-00	PIN, CONNECTOR 2P	
< DIODE >			
D150	8-719-014-82	DIODE UZP-6.8B	
< FUSE >			
△F951	1-576-109-11	FUSE (5A/125V)	
△F953	1-576-109-11	FUSE (5A/125V)	

*	1-644-272-11	TRANSFORMER TERMINAL (2) BOARD	

	1-533-225-11	HOLDER, FUSE	
< CONNECTOR >			
CNP970	1-564-242-00	PIN, CONNECTOR 5P	
* CNP974	1-564-506-11	PLUG, CONNECTOR 3P	
< DIODE >			
D966	8-719-987-63	DIODE 1N4148M	
< FUSE >			
△F952	1-576-108-11	FUSE (4A/125V)	
△F954	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	
△F955	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	

Ref.No.	Part No.	Description	Remark
< RELAY >			
RY951	1-515-894-11	RELAY	

*	1-644-273-11	TRANSFORMER TERMINAL (3) BOARD	

< CAPACITOR >			
C1	1-162-294-31	CERAMIC	0.001uF 10% 50V
C2	1-124-477-11	ELECT	47uF 20% 25V
C3	1-161-379-00	CERAMIC	0.01uF 20% 25V
C4	1-162-294-31	CERAMIC	0.001uF 10% 50V
C5	1-161-379-00	CERAMIC	0.01uF 20% 25V
C6	1-161-379-00	CERAMIC	0.01uF 20% 25V
C11	1-164-097-11	CERAMIC	0.022uF 50V
C21	1-161-021-11	CERAMIC	0.047uF 10% 25V
C22	1-161-379-00	CERAMIC	0.01uF 20% 25V
C23	1-124-477-11	ELECT	47uF 20% 25V
C24	1-123-382-00	ELECT	3.3uF 20% 100V
C25	1-161-379-00	CERAMIC	0.01uF 20% 25V
C26	1-161-329-00	CERAMIC	0.0068uF 30% 16V
C27	1-162-282-31	CERAMIC	100PF 10% 50V
C28	1-124-903-11	ELECT	1uF 20% 50V
C30	1-124-903-11	ELECT	1uF 20% 50V
C31	1-124-902-00	ELECT	0.47uF 20% 50V
C32	1-124-463-00	ELECT	0.1uF 20% 50V
C33	1-130-482-00	MYLAR	0.0082uF 5% 50V
C34	1-123-382-00	ELECT	3.3uF 20% 100V
C35	1-130-482-00	MYLAR	0.0082uF 5% 50V
C36	1-123-382-00	ELECT	3.3uF 20% 100V
C37	1-124-907-11	ELECT	10uF 20% 50V
C39	1-161-379-00	CERAMIC	0.01uF 20% 25V
C40	1-124-463-00	ELECT	0.1uF 20% 50V
C41	1-124-927-11	ELECT	4.7uF 20% 100V
C42	1-161-379-00	CERAMIC	0.01uF 20% 25V
C43	1-126-176-11	ELECT	220uF 20% 10V
C44	1-161-379-00	CERAMIC	0.01uF 20% 25V
C45	1-123-382-00	ELECT	3.3uF 20% 100V
C46	1-161-375-00	CERAMIC	0.0022uF 20% 50V
C48	1-123-382-00	ELECT	3.3uF 20% 100V
C49	1-161-375-00	CERAMIC	0.0022uF 20% 50V
C51	1-124-477-11	ELECT	47uF 20% 25V
C61	1-161-494-00	CERAMIC	0.022uF 25V
C63	1-161-494-00	CERAMIC	0.022uF 25V

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

TUNER VIDEO

Ref. No.	Part No.	Description	Remark
C81	1-102-953-00	CERAMIC 18PF	5% 50V
C82	1-102-953-00	CERAMIC 18PF	5% 50V
C83	1-161-379-00	CERAMIC 0.01uF	20% 25V
C84	1-161-379-00	CERAMIC 0.01uF	20% 25V
C85	1-161-379-00	CERAMIC 0.01uF	20% 25V
C86	1-124-477-11	ELECT 47uF	20% 25V
C87	1-161-379-00	CERAMIC 0.01uF	20% 25V
C88	1-161-379-00	CERAMIC 0.01uF	20% 25V
C89	1-124-925-11	ELECT 2.2uF	20% 100V
C90	1-124-463-00	ELECT 0.1uF	20% 50V
C91	1-161-379-00	CERAMIC 0.01uF	20% 25V
C92	1-161-379-00	CERAMIC 0.01uF	20% 25V
C93	1-124-477-11	ELECT 47uF	20% 25V
C101	1-124-903-11	ELECT 1uF	20% 50V
C102	1-124-903-11	ELECT 1uF	20% 50V
C103	1-124-472-11	ELECT 470uF	20% 10V
C104	1-124-472-11	ELECT 470uF	20% 10V
C108	1-164-159-11	CERAMIC 0.1uF	50V
C109	1-124-120-11	ELECT 220uF	20% 25V
C110	1-124-903-11	ELECT 1uF	20% 50V
< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC	
CF2	1-567-389-11	FILTER, CERAMIC	
CF21	1-577-075-11	OSCILLATOR, CERAMIC	
< COMPOSITION CIRCUIT BLOCK >			
CFT21	1-404-853-11	TRANSFORMER, IF(CERAMIC FILTER)	
< CONNECTOR >			
* CNS1	1-691-183-11	CONNECTOR (BOARD TO BOARD) 13P	
< FRONT END >			
FE1	1-693-201-11	FRONT END, FM	
FE61	1-236-461-11	ENCAPSULATED COMPONENT	
< IC >			
IC10	8-759-821-45	IC LA1851N	
IC11	8-759-175-87	IC LC7218-ST	
IC101	8-759-061-95	IC SN761200N	
< JACK >			
J101	1-568-751-51	JACK, PIN (2P SHIELD TYPE) (MONITOR VIDEO OUT/VIDEO 1 VIDEO IN)	
J102	1-568-751-51	JACK, PIN (2P SHIELD TYPE) (VIDEO 1 VIDEO OUT/VIDEO 2 VIDEO IN)	

Ref. No.	Part No.	Description	Remark
< COIL >			
L1	1-410-521-11	INDUCTOR 100uH	
L21	1-410-171-11	INDUCTOR 1mH	
< FILTER >			
LPF21	1-235-221-00	FILTER, LOW PASS	
< TRANSISTOR >			
Q1	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q2	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q21	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q22	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q23	8-729-900-61	TRANSISTOR DTA114ES	
Q24	8-729-900-36	TRANSISTOR DTC124ES	
Q25	8-729-900-36	TRANSISTOR DTC124ES	
Q81	8-729-900-61	TRANSISTOR DTA114ES	
Q82	8-729-900-36	TRANSISTOR DTC124ES	
Q83	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q84	8-729-230-93	TRANSISTOR 2SC3113-AB	
Q101	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q102	8-729-119-76	TRANSISTOR 2SA1175-HFE	
< RESISTOR >			
△R1	1-247-811-31	CARBON 150 5% 1/4W	F
R3	1-249-411-11	CARBON 330 5% 1/4W	
R4	1-249-411-11	CARBON 330 5% 1/4W	
R5	1-249-411-11	CARBON 330 5% 1/4W	
R6	1-249-432-11	CARBON 18K 5% 1/4W	
R7	1-249-411-11	CARBON 330 5% 1/4W	
R8	1-249-414-11	CARBON 560 5% 1/4W	
R9	1-249-434-11	CARBON 27K 5% 1/4W	
△R21	1-247-807-31	CARBON 100 5% 1/4W	F
R22	1-249-428-11	CARBON 8.2K 5% 1/4W	
R23	1-249-417-11	CARBON 1K 5% 1/4W	
R24	1-249-435-11	CARBON 33K 5% 1/4W	
R25	1-249-428-11	CARBON 8.2K 5% 1/4W	
R27	1-249-432-11	CARBON 18K 5% 1/4W	
R28	1-249-423-11	CARBON 3.3K 5% 1/4W	
R29	1-249-429-11	CARBON 10K 5% 1/4W	
R31	1-249-413-11	CARBON 470 5% 1/4W	
R32	1-249-429-11	CARBON 10K 5% 1/4W	
R33	1-249-429-11	CARBON 10K 5% 1/4W	
R35	1-249-437-11	CARBON 47K 5% 1/4W	
R37	1-247-891-00	CARBON 330K 5% 1/4W	
R39	1-249-423-11	CARBON 3.3K 5% 1/4W	
R40	1-249-420-11	CARBON 1.8K 5% 1/4W	
R41	1-249-426-11	CARBON 5.6K 5% 1/4W	
R42	1-247-891-00	CARBON 330K 5% 1/4W	

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TUNER VIDEO

VOLUME

Ref. No.	Part No.	Description	Remark
R44	1-249-423-11	CARBON 3. 3K 5%	1/4W
R45	1-249-420-11	CARBON 1. 8K 5%	1/4W
R46	1-249-426-11	CARBON 5. 6K 5%	1/4W
△R47	1-249-409-11	CARBON 220 5%	1/4W F
R61	1-249-441-11	CARBON 100K 5%	1/4W
R62	1-249-437-11	CARBON 47K 5%	1/4W
R63	1-249-397-11	CARBON 22 5%	1/4W
R64	1-249-417-11	CARBON 1K 5%	1/4W
R70	1-249-423-11	CARBON 3. 3K 5%	1/4W
R71	1-249-414-11	CARBON 560 5%	1/4W
R72	1-249-417-11	CARBON 1K 5%	1/4W
R73	1-249-410-11	CARBON 270 5%	1/4W
R74	1-249-425-11	CARBON 4. 7K 5%	1/4W
R75	1-249-421-11	CARBON 2. 2K 5%	1/4W
R76	1-249-425-11	CARBON 4. 7K 5%	1/4W
R77	1-247-807-31	CARBON 100 5%	1/4W
R78	1-249-425-11	CARBON 4. 7K 5%	1/4W
△R79	1-247-811-31	CARBON 150 5%	1/4W F
R81	1-249-417-11	CARBON 1K 5%	1/4W
R82	1-249-417-11	CARBON 1K 5%	1/4W
R83	1-249-417-11	CARBON 1K 5%	1/4W
R84	1-249-417-11	CARBON 1K 5%	1/4W
R85	1-249-429-11	CARBON 10K 5%	1/4W
R86	1-249-417-11	CARBON 1K 5%	1/4W
R87	1-249-429-11	CARBON 10K 5%	1/4W
R88	1-249-425-11	CARBON 4. 7K 5%	1/4W
R89	1-249-417-11	CARBON 1K 5%	1/4W
R91	1-249-417-11	CARBON 1K 5%	1/4W
△R92	1-249-401-11	CARBON 47 5%	1/4W F
R101	1-247-804-11	CARBON 75 5%	1/4W
R102	1-247-804-11	CARBON 75 5%	1/4W
R103	1-247-804-11	CARBON 75 5%	1/4W
R104	1-249-429-11	CARBON 10K 5%	1/4W
R105	1-247-804-11	CARBON 75 5%	1/4W
R106	1-249-429-11	CARBON 10K 5%	1/4W
R109	1-247-807-31	CARBON 100 5%	1/4W
R110	1-247-807-31	CARBON 100 5%	1/4W
R113	1-247-807-31	CARBON 100 5%	1/4W
R114	1-247-807-31	CARBON 100 5%	1/4W
R115	1-249-433-11	CARBON 22K 5%	1/4W
R116	1-249-433-11	CARBON 22K 5%	1/4W
R117	1-249-433-11	CARBON 22K 5%	1/4W
R129	1-247-804-11	CARBON 75 5%	1/4W
< VARIABLE RESISTOR >			
RV21	1-241-628-11	RES, ADJ, CARBON 2. 2K (FM STEREO SEPARATION)	
RV22	1-241-631-11	RES, ADJ, CARBON 22K (AM TUNING LEVEL)	
RV24	1-241-631-11	RES, ADJ, CARBON 22K (FM TUNING LEVEL)	

Ref. No.	Part No.	Description	Remark
RV25	1-241-631-11	RES, ADJ, CARBON 22K (AUTO STOP LEVEL)	
< TRANSFORMER >			
T21	1-404-807-11	TRANSFORMER, DISCRIMINATOR	
< TERMINAL >			
* TM1	1-562-907-11	CONNECTOR, F-J	
TM2	1-536-707-00	TERMINAL BOARD, PUSH 2P	
< TEST PIN >			
* TP1	1-560-060-00	PIN, CONNECTOR 2P	
< CRYSTAL >			
XT81	1-579-585-11	VIBRATOR, CRYSTAL (7. 2MHz)	

*	1-644-265-11	VOLUME BOARD	

< CAPACITOR >			
C401	1-124-903-11	ELECT 1uF 20% 50V	
C402	1-124-903-11	ELECT 1uF 20% 50V	
< CONNECTOR >			
CNP451	1-691-769-11	PLUG (MICRO CONNECTOR) 7P	
< CONNECTOR >			
* CNS450	1-691-177-11	CONNECTOR (BOARD TO BOARD) 7P	
* CNS453	1-568-824-11	SOCKET, CONNECTOR 5P	
< RESISTOR >			
R401	1-247-811-31	CARBON 150 5% 1/4W	
< VARIABLE RESISTOR >			
RV402	1-241-563-11	RES, VAR, CARBON 100KX4 (MASTER VOLUME)	

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
		MISCELLANEOUS *****	
8	1-690-091-11	WIRE, FLAT TYPE (21 CORE)	
△58	1-575-975-11	CORD, POWER	
62	1-696-073-21	LEAD (WITH CONNECTOR) (2 CORE)	
67	1-751-801-11	WIRE (FLAT TYPE) (7 CORE)	
110	1-575-848-11	WIRE, FLAT TYPE (5 CORE)	
111	1-696-550-11	WIRE (FLAT TYPE) (33 CORE)	
△T902	1-423-643-11	TRANSFORMER, POWER	

		ACCESSORIES & PACKING MATERIALS *****	
	1-501-374-11	ANTENNA, LOOP	
	1-590-925-31	CORD, CONNECTION	
	1-693-099-11	COMMANDER, STANDARD (RM-U221)	
	3-757-810-21	MANUAL, INSTRUCTION(ENGLISH)	
	4-925-079-01	COVER (6), BATTERY	
	4-933-001-01	CUSHION	
*	4-963-155-01	INDIVIDUAL CARTON	

		***** HARDWARE LIST *****	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-682-547-09	SCREW +BVTT 3X6 (S)	
#3	7-682-561-04	SCREW +BVTT 4X8 (S)	
#4	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#5	7-621-775-00	SCREW +B 2.6X3	
#6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	

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

