

RXD-700

SERVICE MANUAL

AEP Model
UK Model



Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	_____
Optical Pick-up Name	KSS-213C/Q-RP

SPECIFICATIONS

Amplifier section

Continuous RMS power output
55 + 55 watts
(4 ohms at 1 kHz, 0.7% THD)

Inputs

TAPE LINE IN (phono jacks):
sensitivity 150 mV, impedance 50
kilohms

Outputs

TAPE REC OUT (phono jacks):
150 mV, 4.7 kilohms

SPEAKER:
accepts impedance of 4 to 16 ohms,
8 to 16 ohms (SPEAKER A + B).

CD player section

System Compact disc and digital audio system

Laser Semiconductor laser
($\lambda = 780$ nm)

Emission duration: continuous

Laser output Max. 44.6 μ W*

* This output is the value measured at
a distance of 200 mm from the
objective lens surface on the Optical
Pick-up Block with 7 mm aperture.

Wavelength 780 - 790 nm

Frequency response 20 Hz - 20 kHz (± 0.5 dB)

Signal-to-noise ratio More than 114 dB

Dynamic range More than 100 dB

Harmonic distortion Less than 0.003 %

Channel separation More than 108 dB (1 kHz, 20 kHz LPF)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 - 108.0 MHz
(50 kHz step)

Aerial FM wire aerial

Aerial terminals 75 ohm unbalanced

Intermediate frequency 10.7 MHz

Sensitivity at 26 dB quieting
(mono) 10.3 dBf, 0.9 μ V/ 75 ohms
at 46 dB quieting
(stereo) 38.5 dBf, 23 μ V/ 75 ohms

Usable sensitivity (IHF) 10.3 dBf, 0.9 μ V/ 75 ohms

S/N at 40 kHz deviation

Mono: 75 dB

Stereo: 70 dB

Harmonic distortion
at 1 kHz

Mono: 0.04%

Stereo: 0.07%

Separation 45 dB at 1 kHz

Frequency response 30 Hz - 15 kHz (+0.3/-0.7)

— Continued on next page —



CD RECEIVER

SONY®

AM tuner section

Tuning range	531 - 1,602 kHz (9 kHz step)
Aerial	AM loop aerial, External aerial terminals
Intermediate frequency	450 kHz
Usable sensitivity	300 μ V/m
S/N	50 dB (50 mV/m, 999 kHz)
Harmonic distortion	0.3 % (50 mV/m, 400 Hz)

General

Power requirements	230 V AC, 50/60 Hz
Power consumption	150 watts
Dimensions (w/h/d)	Approx. 440 $\times$ 110 $\times$ 340 mm (17 $\frac{3}{8}$ $\times$ 4 $\frac{3}{8}$ $\times$ 13 $\frac{1}{2}$ in) incl. projecting parts and controls
Mass	Approx. 7.4 kg (16 lb. 5 oz.)
Supplied accessories	Remote commander (remote) RM-U301 (1) R6 (size AA) batteries (2) AM loop aerial (1)

Design and specifications are subject to change without notice.

SERVICE NOTE**CAUTION**

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

Notes on Chip Component Replacement

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

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

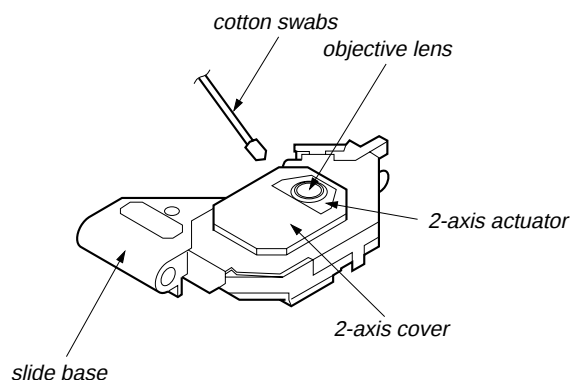
The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter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

NOTES ON LASER DIODE EMISSION CHECK

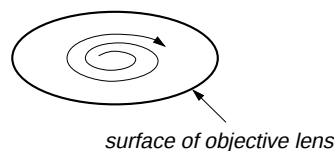
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

NOTES ON PICK-UP FLEXIBLE BOARD

The pick-up flexible board in this set is secured to the optical pick-up with an adhesive tape. Once the tape is removed, an adhering force becomes weak, and it cannot be reused. Therefore, if the optical pick-up is replaced, replace also the pick-up flexible board with a new one.

NOTES ON CLEANING THE OBJECTIVE LENS

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

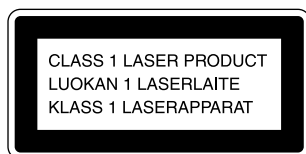
**Notes:**

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

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

SAFETY-RELATED COMPONENT WARNING!!

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



This appliance is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

The following caution label is located inside the unit.

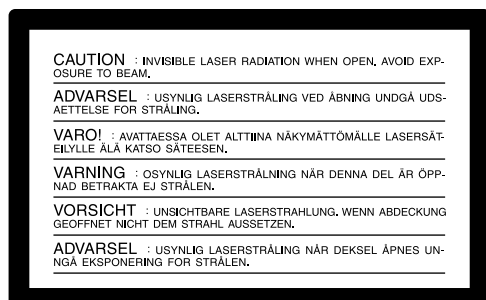


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Unpacking

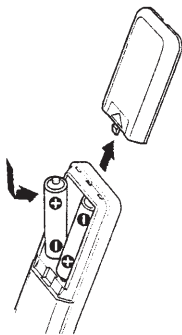
Check that you received the following items:

- Remote commander (remote) (1)
- R6 (size AA) batteries (2)
- AM loop aerial (1)

Inserting batteries into the remote

You can control the CD Receiver using the supplied remote.

Insert two R6 (size AA) batteries by matching the + and – on the batteries. When using the remote, point it at the remote sensor  on the CD Receiver.



When to replace batteries

With normal use, the batteries should last for about six months. When the remote no longer operates the CD Receiver, replace both batteries with new ones.

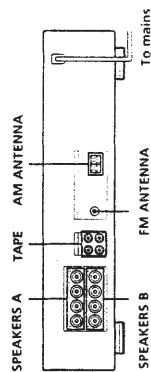
Notes

- Do not leave the remote near an extremely hot or humid place.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you do not use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Hooking Up the System

Overview

This section describes how to connect your speakers, tape deck, FM aerial and the supplied AM loop aerial to the CD Receiver. Be sure to turn off the power of each component before making the connections.



Speaker system hookups

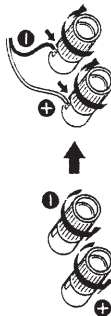
You can connect two pairs of speakers, A and B.

What cords will I need?

Speaker cord (not supplied) (1 for each speaker)



Twist the stripped ends of the cord about 15 mm (about 2/3 inch). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and – to –. If the cords are reversed, the sound will be distorted and will lack bass.



Connecting to bi-wire system speakers

Since the two pairs of speaker terminals on your CD Receiver, SPEAKERS A and B, can provide simultaneous speaker output, you can use them to connect a bi-wire speaker system.

To select speaker system A or B

Press SPEAKER A or B. To drive both speaker systems simultaneously, press both SPEAKER A and B.

Note

Use speakers with a nominal impedance of 4 to 16 ohms. When outputting at the same time to two speaker systems, use speakers with a nominal impedance of 8 to 16 ohms.

AM aerial hookups

What will I need?

AM loop aerial (supplied) (1)

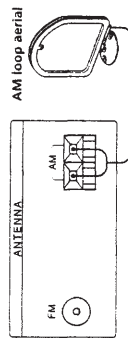


1 Set up the supplied aerial.



You can use the aerial by standing it (Example 1) or fixing it to a wall (Example 2).

2 Connect the AM loop aerial to the AM ANTENNA terminals on the back of the CD Receiver.



3

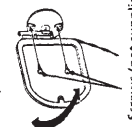
Adjust the aerial direction for the best reception. The AM loop aerial has a directivity which detects the signal from some angles more strongly than others. Set the aerial to the orientation which provides the best receiving condition.

If a high pitched noise (beat noise) occurs when recording AM broadcasts, adjust the position of the AM loop aerial so that the noise disappears. If you live in a building constructed of reinforced concrete, or with a steel frame, you may not be able to achieve good reception since the radio waves become weaker indoors.

Example 1



Example 2



Screws (not supplied)



For stations that are difficult to receive

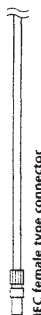
Try repositioning the loop aerial while tuning. Placing the supplied AM loop aerial near a window will help improve reception quality.

FM aerial hookups

With an FM outdoor aerial, you can obtain higher FM broadcast sound quality.

What will I need?

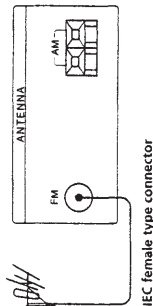
FM outdoor aerial (not supplied) (1) and 75-ohm coaxial cable with IEC female type connector (not supplied) (1)



IEC female type connector

Connect an FM outdoor aerial (not supplied) to the FM ANTENNA terminal on the back of the CD Receiver.

FM outdoor aerial



IEC female type connector

Connecting a ground wire

If you connect an outdoor aerial, be sure to connect an earth lead (not supplied) to the AM ANTENNA terminal (in addition to the AM loop aerial) for lightning protection.

Audio component hookups

What cords will I need?

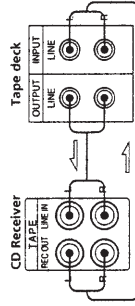
Audio cords (not supplied) (2)



When connecting an audio cord, be sure to match the colour-coded pins to the appropriate jacks on the components: Red (right) to Red and White (left) to White. Be sure to make connections firmly to avoid hum and noise.

(Continued)

The arrow $\Rightarrow$ indicates signal flow.



The audio signal of the currently selected source (CD or tuner) is output through the TAPE OUT jacks.

Connecting the mains lead

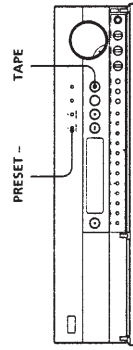
Connect the mains lead to a wall outlet.

Note

Separate the mains lead, audio cords and speaker cords. Noise or sound deterioration may occur when audio cords are in contact with the mains lead, or when the mains lead or speaker cords are placed near a loop aerial or aerial wire.

Before using the CD Receiver for the first time

You need to reset the CD Receiver.



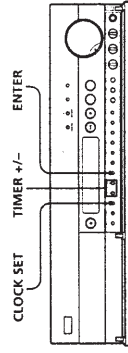
While the power is off, press TAPE while holding down PRESET-. "All Clear" appears in the display.

Note

When you reset the CD Receiver, all the preset radio stations are erased.

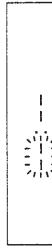
Setting the Clock

You must set the time before using the timer functions.



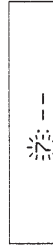
1 Press CLOCK SET.

The hour indication flashes.



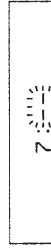
2 Press TIMER +/- to set the hour.

The clock uses the 24-hour system.

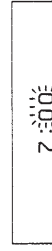


3 Press ENTER.

The minute indication flashes.



4 Press TIMER +/- to set the minute.



5 Press ENTER.

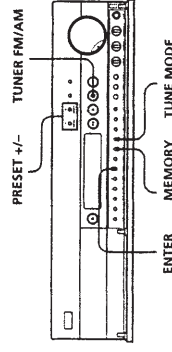
The clock starts.

To adjust the clock after you have set it

Press CLOCK SET and hold down until the hour indication of the clock starts flashing (about one second), then adjust the clock following the above procedure.

Presetting Radio Stations

This section shows you how to store up to 30 of your favourite FM or AM stations manually onto preset codes made up of characters (A, B or C) and numbers (1-10), such as A7. You can store up to 10 stations on each of the 3 different letters. You can use these letters to classify stations according to music category or station band.



1 Press POWER to turn on the CD Receiver.

2 Press TUNER FM/AM repeatedly to choose either FM or AM.

3 Press and hold PRESET +/- and release it when the frequency numbers start changing.

Press PRESET+ for a higher frequency, press PRESET- for a lower frequency.

When this unit locates a station, "TUNED" appears in the display and scanning stops automatically (Automatic Tuning).

If "PRESET" appears in the display

Press TUNE MODE repeatedly until "PRESET" disappears from the display, then do the above procedure.

4 Press MEMORY.

The lowest available preset code number flashes to indicate that this unit is ready to store the station.

5 Press PRESET +/- repeatedly until the preset code you want appears in the display.

Each time you press the button, the preset code changes as follows:



If you store a station at a preset code where you have already stored another station, the previous station is erased.

6 Press ENTER.

This unit stores the station at the preset code you specified.

7 Repeat Steps 2 through 6 to store other stations.

If you tune in AM stations

Adjust the direction of the AM loop aerial for optimum reception.

If the STEREO indicator remains off

Press ST/MONO when an FM stereo broadcast is received.

If an FM stereo programme is distorted

The STEREO indicator flashes. Press ST/MONO to change to monaural (MONO). You will not have the stereo effect but the distortion will be reduced. To return to stereo mode, press this button again.

If you cannot tune in the station you want (Manual Tuning)

With Manual Tuning, you can search through all stations broadcasting on each band, and tune in stations with extremely weak signals that you might not be able to receive with Automatic Tuning.

1 Press TUNER FM/AM repeatedly to choose FM or AM.

2 Press PRESET +/- repeatedly until you tune in the desired station.

Press PRESET+ for a higher frequency, press PRESET- for a lower frequency.

If "PRESET" appears in the display

Press TUNE MODE repeatedly until "PRESET" disappears from the display, then do the above procedure.

RDS (Radio Data System) Station names are stored automatically

When you preset an RDS station broadcasting station name information, the station name is automatically stored at the station preset.

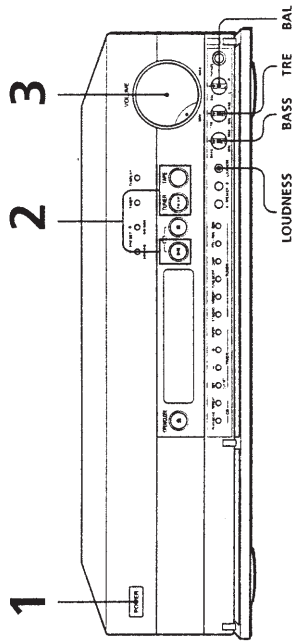
If you want to label the stations

Follow the procedure described in "Naming the Preset Stations" on page 13.

Note

If the mains lead is disconnected for about a month, the preset stations will be cleared from the CD Receiver's memory, and you will have to preset the stations again.

Selecting a Source



• See pages 4 – 6 for the hookup information.

You can listen through the headphones
Connect the headphones to the PHONES jack and set SPEAKER A and B to OFF.

You can adjust the volume using the remote
Press VOL +/-.

Note
Avoid high speaker output at which the sound is distorted. High-frequency distortion may damage the speakers.

1 Press POWER to turn on the CD Receiver and turn VOLUME fully anticlockwise to prevent damaging the speakers with excessive output.

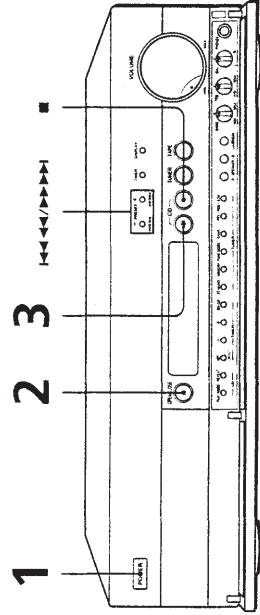
2 Press a function button to select the programme source you want to listen to.

To listen to a	Press
Radio broadcast	TUNER FM/AM
Compact disc	CD ►►
Tape	TAPE and start playing a tape

3 Adjust the volume by turning VOLUME.

To	You need to
Adjust the bass	Turn BASS
Adjust the treble	Turn TRE
Adjust the balance	Turn BAL
Reinforce the bass and treble at low listening level	Press LOUDNESS
Mute the sound	Press MUTING on the remote

Playing a CD



If playback doesn't start from the first track
Press PLAY MODE until "SHUFFLE" and "PROGRAM" disappears from the display.

1 Press POWER to turn on the CD Receiver.

2 Press OPEN/CLOSE, and place a CD on the tray.



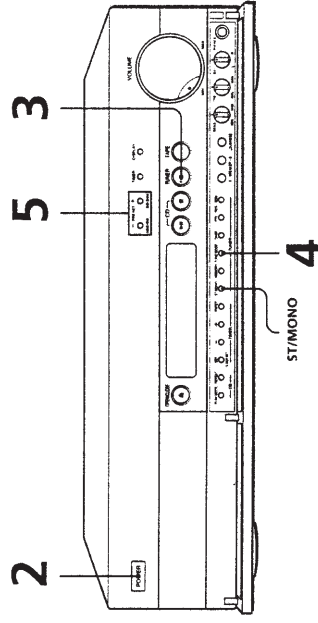
With the label side up

3 Press CD ►►. The disc tray closes and playback starts (Continuous Play).

To stop playback
Press CD ■.

When you want to	Press
Pause during play	CD ►► (or ► on the remote)
Resume play after pause	CD ►► (or ► on the remote)
Go to the next track	CD ►► (or ►► on the remote)
Go back to the preceding track	CD ◀◀ (or ◀◀ on the remote)
Locate a point during play	CD ◀◀ (forward) or ►► (backward) and hold down until you find the point (or ◀◀/►► on the remote)
Stop playback and remove the CD	OPEN/CLOSE

Receiving Preset Stations



- To tune in a non-preset station, see "Presetting Radio Stations" on page 7 for Automatic or Manual Tuning.

Notes

- If no stations are stored, "No Preset" flashes in the display. If only one station is stored, "1 Preset only" flashes.
- The display shows only the preset codes where you have stored the stations beforehand. Example: If you have stored the stations onto A1, A3 and C2, the display changes as follows each time you press the PRESET + button.
A1 → A3 → C2

1 Make sure you have preset radio stations. (See page 7 for presetting.)

2 Press POWER to turn on the CD Receiver.

3 Press TUNER FM/AM.

4 Press TUNE MODE repeatedly until "PRESET" appears in the display.

5 Press PRESET +/- to select the preset code you want (A1 - C0).

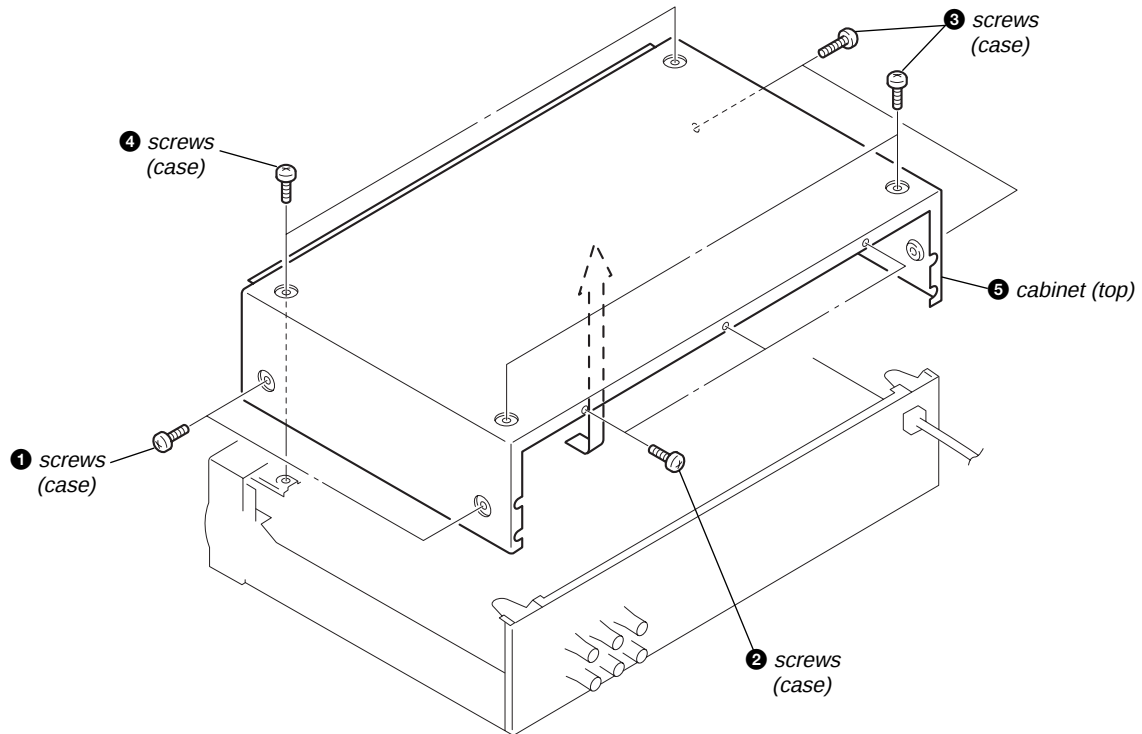
Setting the FM mode manually

- Press ST/MONO to choose the reception mode, select either Auto Stereo or MONO.
- Auto Stereo mode receives stereo broadcasts with strong signals. Press ST/MONO repeatedly until "MONO" disappears from the display.
 - MONO mode receives stations with weak signals. Stations will be received in monaural but with even less noise.

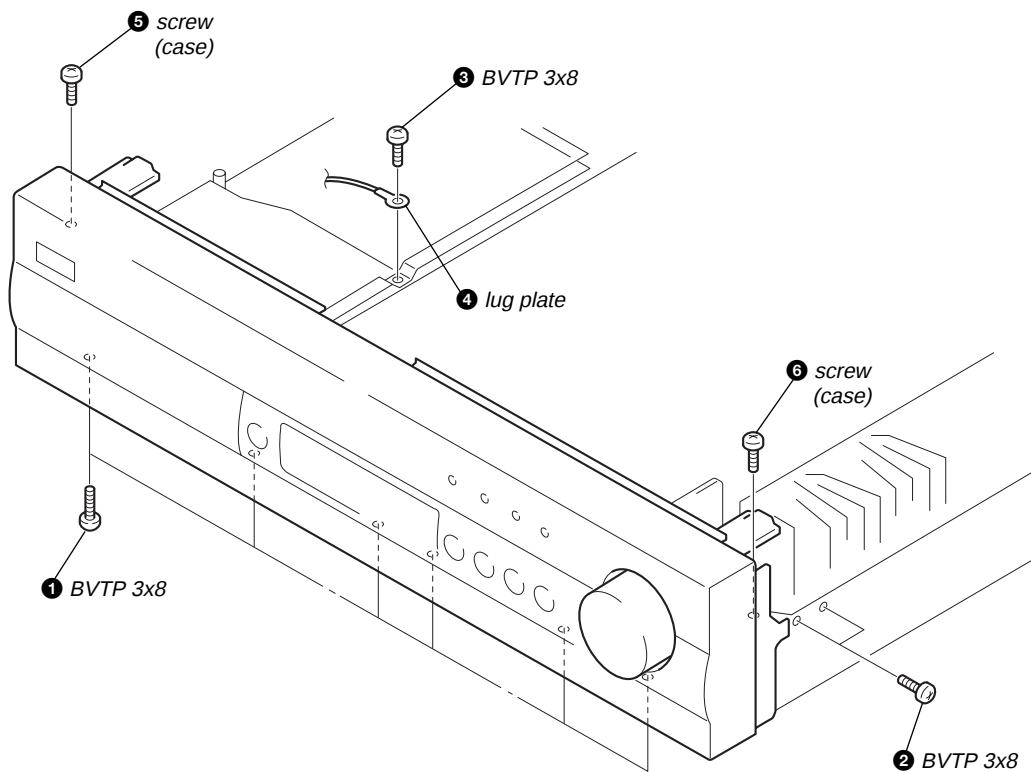
SECTION 2 DISASSEMBLY

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

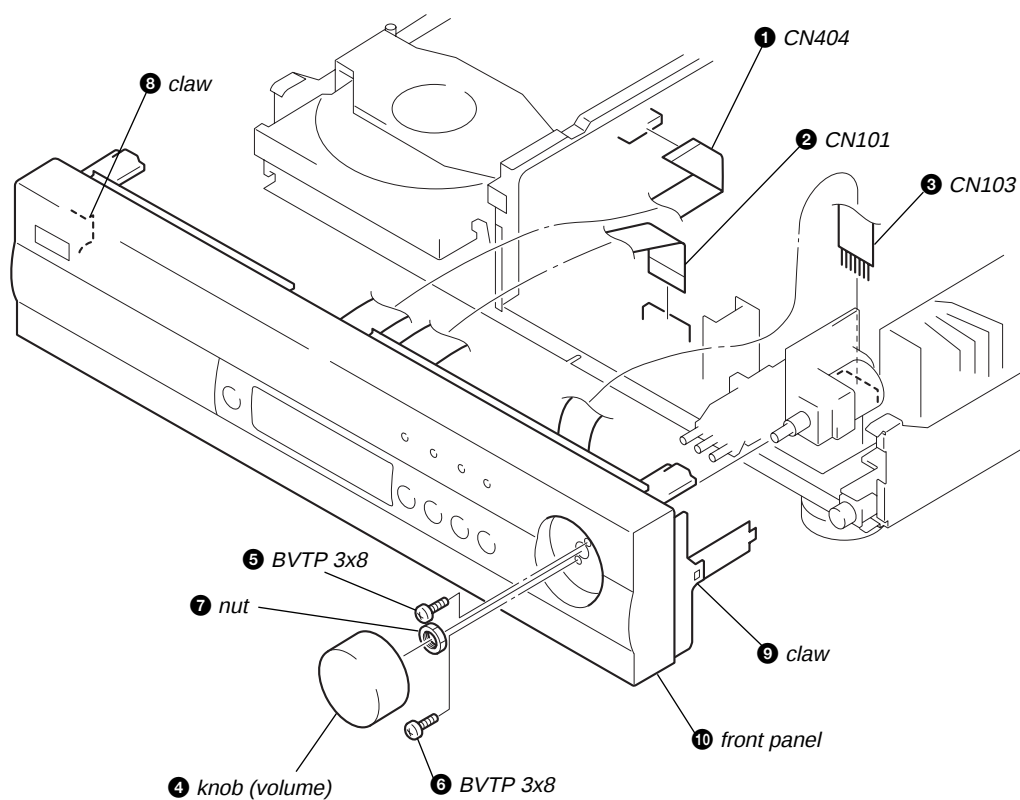
2-1. CABINET (TOP)



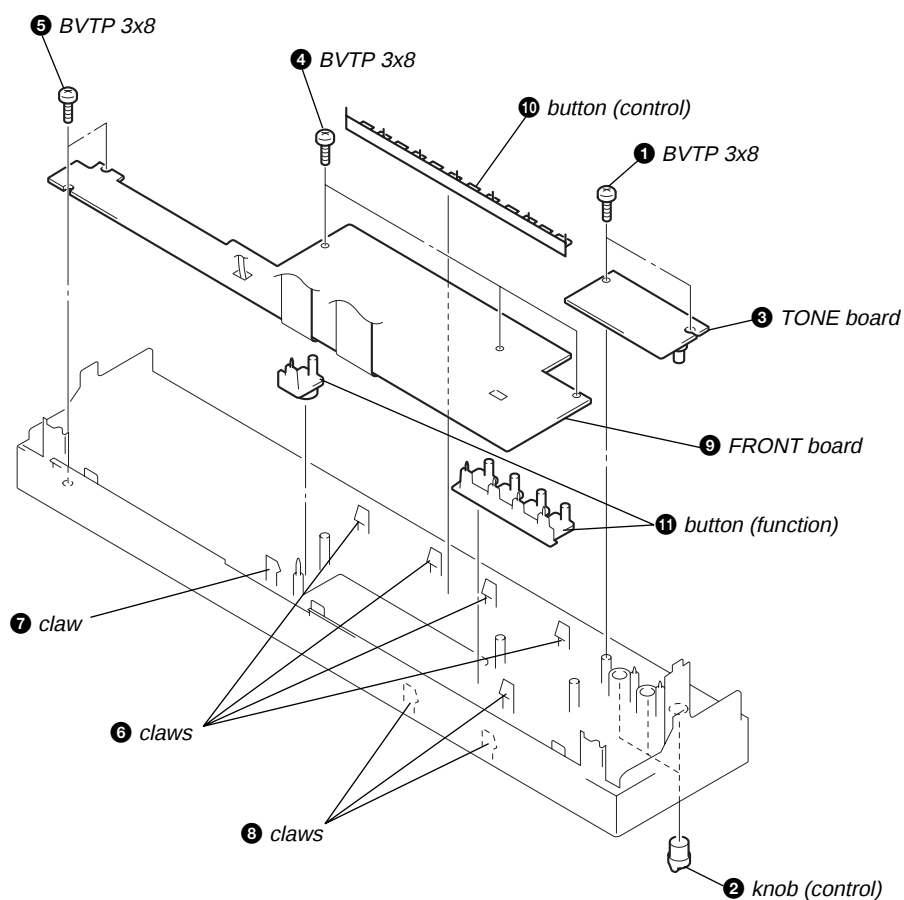
2-2. FRONT PANEL (1)



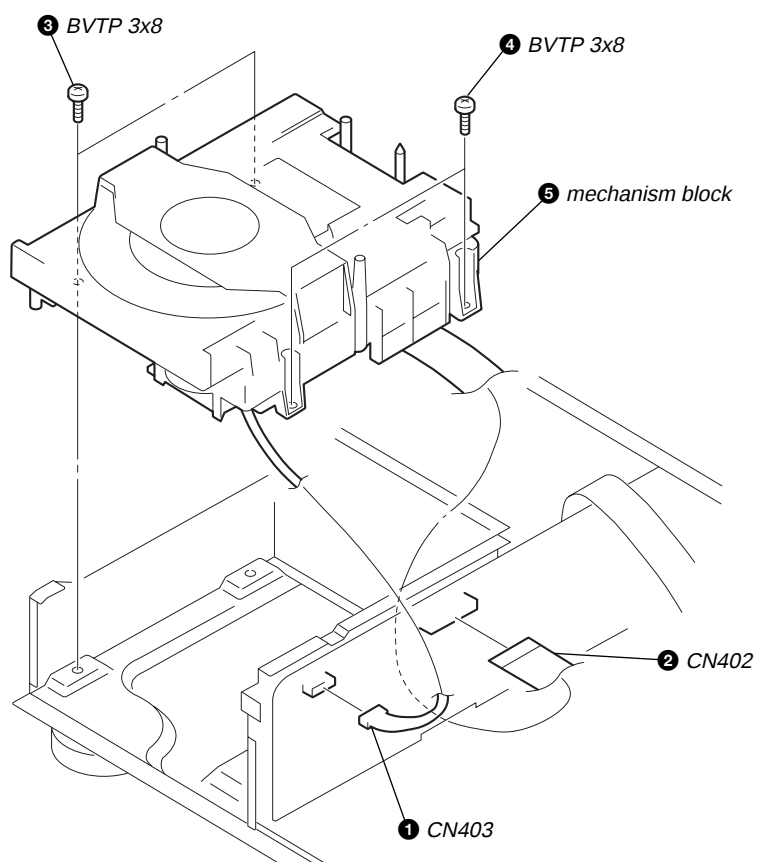
2-3. FRONT PANEL (2)



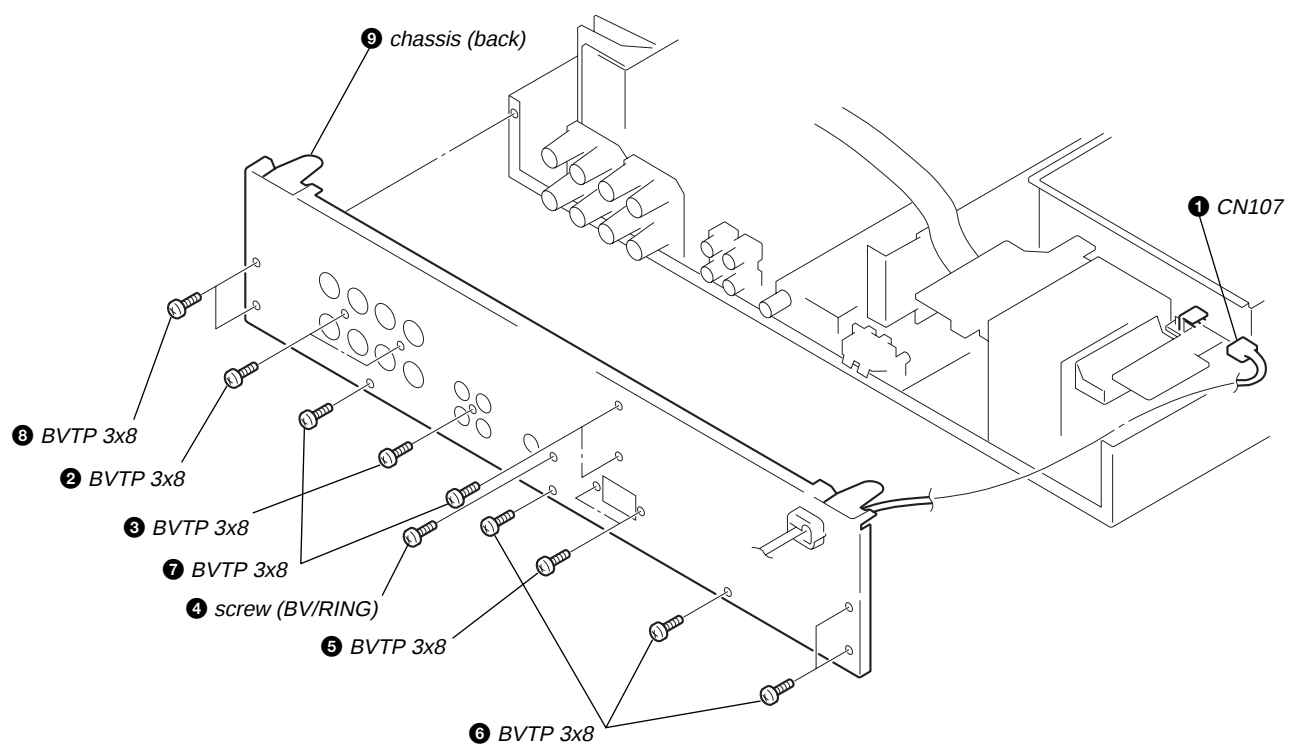
2-4. FRONT BOARD



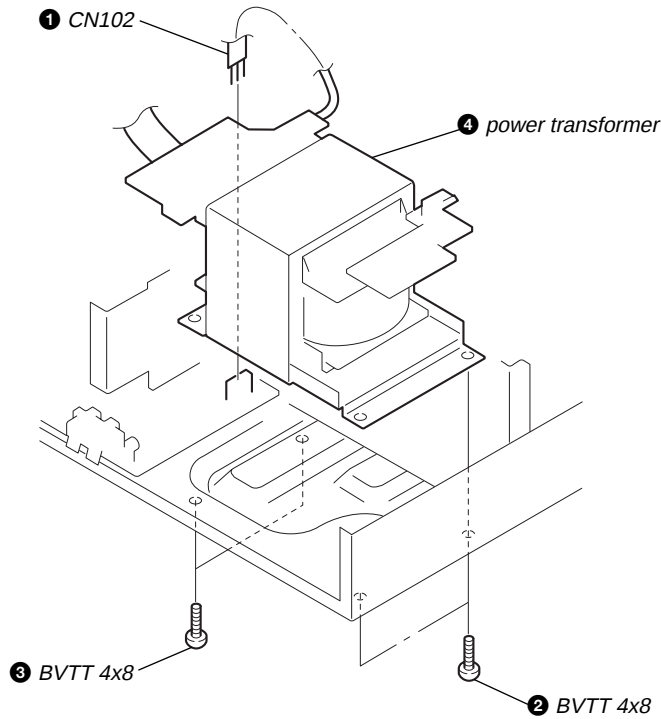
2-5. MECHANISM BLOCK



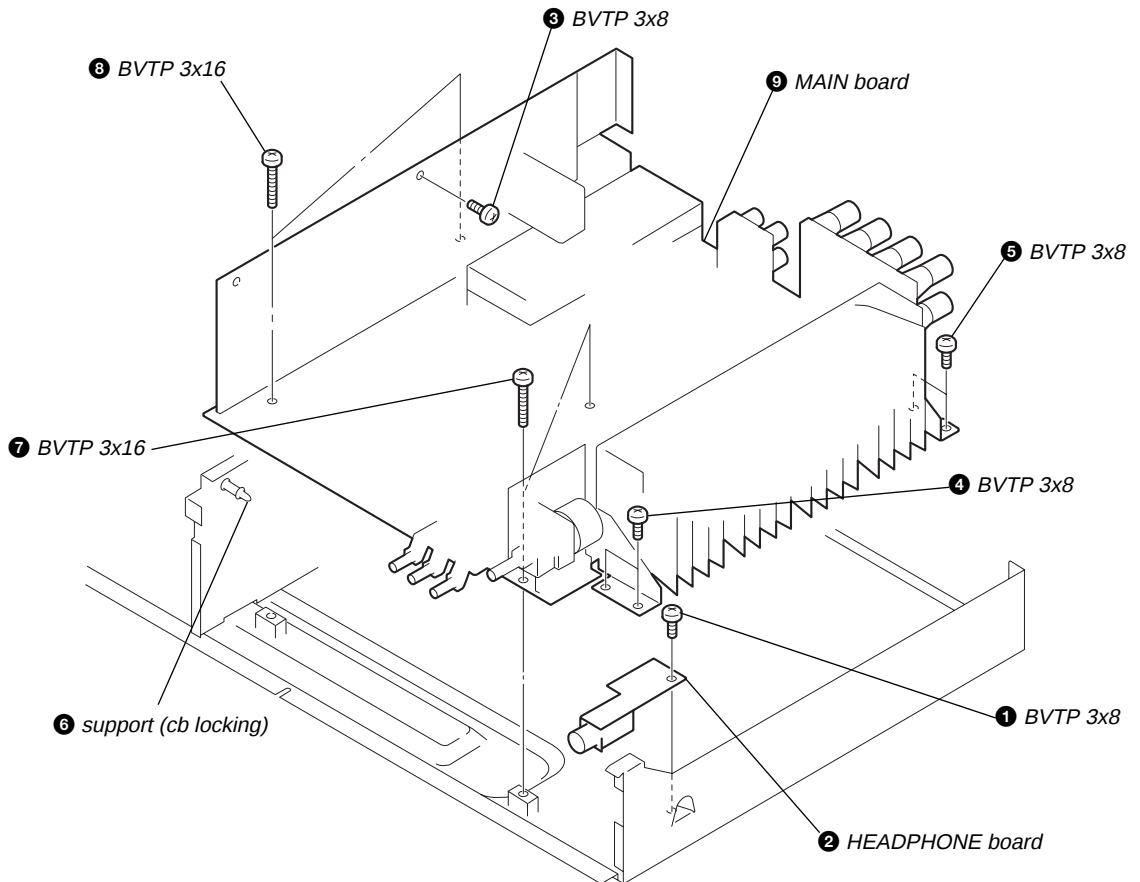
2-6. CHASSIS (BACK)



2-7. POWER TRANSFORMER



2-8. MAIN BOARD



SECTION 3 DISASSEMBLY

FM SECTION

0 dB = 1 μ V

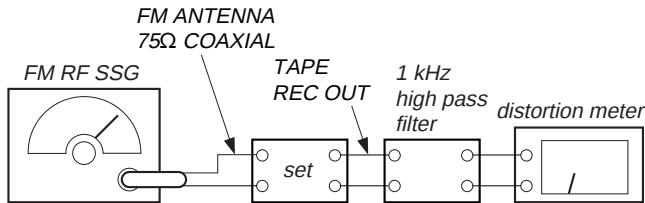
Cautions during repair

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

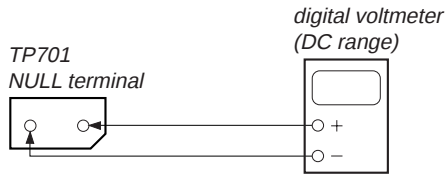
FM Discriminator Adjustment (NULL and MONO Distortion Adjustment)

Setting :

TUNER button : FM



Carrier frequency : 98.0 MHz
Output level : 60 dB (1 mV)
Mode : mono
Modulation : 1 kHz, 75 kHz deviation (100%)



Procedure :

1. Tune the set to 98.0 MHz.
2. Adjust L702 for 0 $\pm$ 25 mV reading on the digital voltmeter.
..... NULL
3. Adjust L703 for a minimum reading on the distortion meter.
..... MONO Distortion (THD)
4. Repeat the adjustments of 2 and 3 several times.

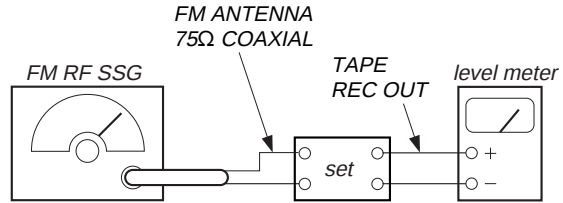
Note : When replacing the ceramic filter, perform this adjustment.

Adjustment Location : See page 14.

FM Stereo Separation Adjustment

Setting :

TUNER button : FM



Carrier frequency : 98.0 MHz
Output level : 60 dB (1 mV)
Mode : stereo
Modulation : main : 1 kHz, 37.5 kHz deviation (50%)
sub : 1 kHz, 37.5 kHz deviation (50%)
19 kHz pilot : 6.75 kHz deviation (9%)

Procedure :

FM stereo signal generator output channel	Level meter connection	Level meter reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust VR703 for minimum reading on level meter.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust VR703 for minimum reading on level meter.

L-CH stereo separation : Ⓐ – Ⓑ

R-CH stereo separation : Ⓒ – Ⓓ

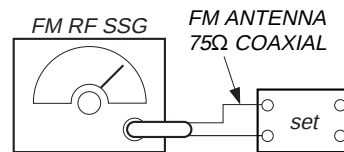
The separations of both channels should be equal.

Adjustment Location : See page 14.

FM Tuning Level Adjustment

Setting :

TUNER button : FM



Carrier frequency : 98.0 MHz
Output level : 25 dB (17.8 μ V)
Mode : mono
Modulation : no modulation

Procedure :

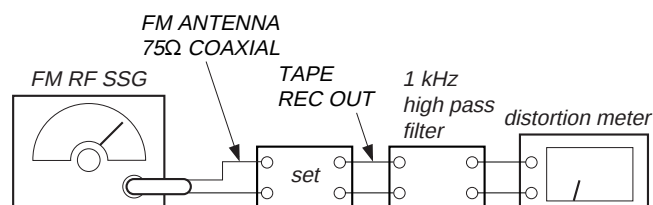
1. Tune the set to 98.0 MHz.
2. Adjust VR701 so that the TUNED indicator goes on.
3. Confirm that the TUNED indicator goes off with FM RF SSG output level set at 22 dB.

Adjustment Location : See page 14.

FM Stereo Distortion Adjustment

Setting :

TUNER button : FM



Carrier frequency : 98.0 MHz
 Output level : 60 dB (1 mV)
 Mode : stereo
 Modulation : main : 1 kHz, 34.125 kHz deviation (45.5%)
 sub : 1 kHz, 34.125 kHz deviation (45.5%)
 19 kHz pilot : 6.75 kHz deviation (9%)

Procedure :

1. Tune the set to 98.0 MHz.
2. Adjust IFT on PACK701 for a minimum reading on the distortion meter.

Adjustment Location : See page 14.

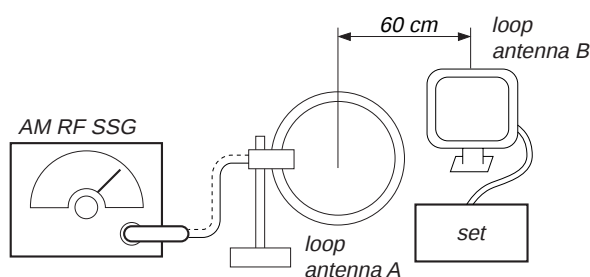
AM SECTION

0 dB = 1 μ V

AM Tuning Level Adjustment

Setting :

TUNER button : AM



Carrier frequency : 999 kHz
 Output level : 55 dB (0.56 mV)

Procedure :

1. Set loop antenna A so that the loop antenna B input level becomes 55 dB (0.56 mV)
2. Tune the set to 999 kHz.
3. Adjust VR702 so that the **TUNED** indicator goes on.
4. Confirm that the **TUNED** indicator goes off with AM RF SSG output level set at 53 dB.

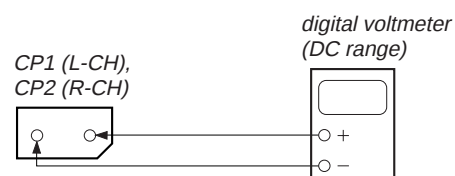
Adjustment Location : See page 14.

AUDIO SECTION

Idle Current Adjustment

Setting :

VOLUME control : MIN



Procedure :

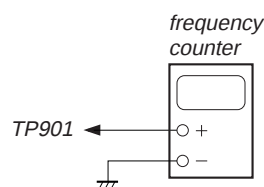
1. Adjust VR101 (L-CH), VR102 (R-CH) for 7 ± 0.2 mV reading on digital voltmeter.

Adjustment Location : See page 14.

FRONT SECTION

Frequency (Clock) Adjustment

Setting :



Procedure :

1. Connect the frequency counter to TP901.
2. Adjust C914 for 32.768 kHz $\pm$ 0.1 Hz reading on frequency counter.

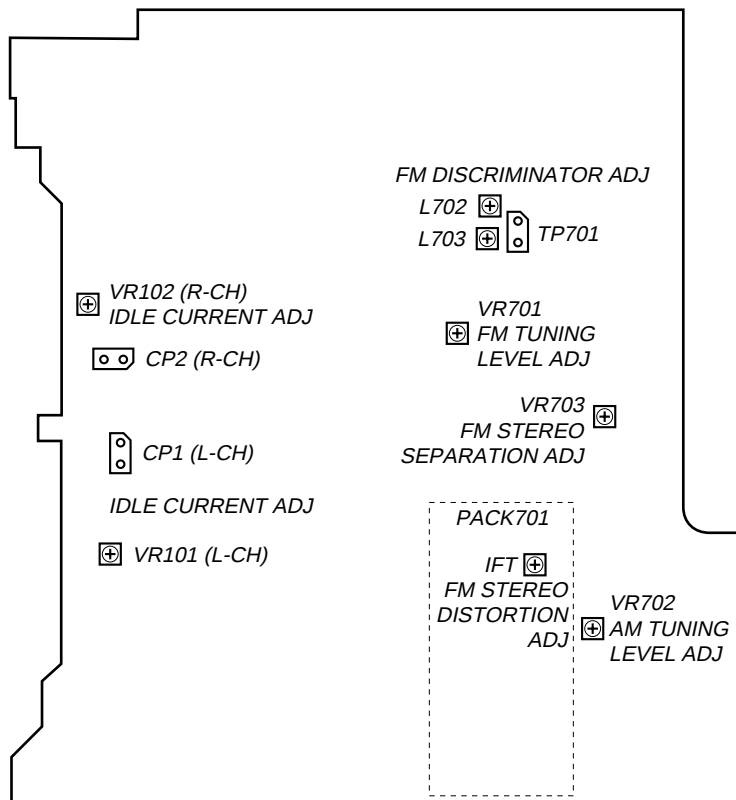
Adjustment Location : See page 14.

CD SECTION

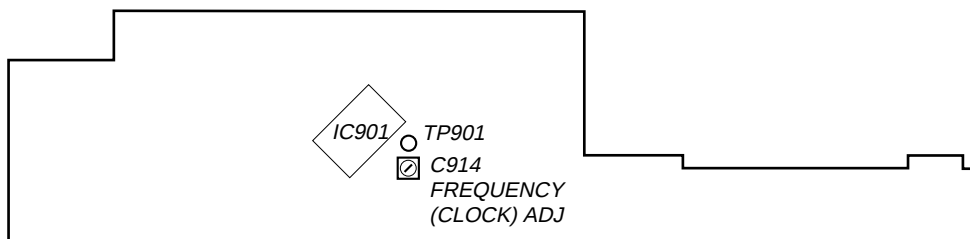
- This set is automatically adjustment.

Adjustment Location :

– main board (component side) –

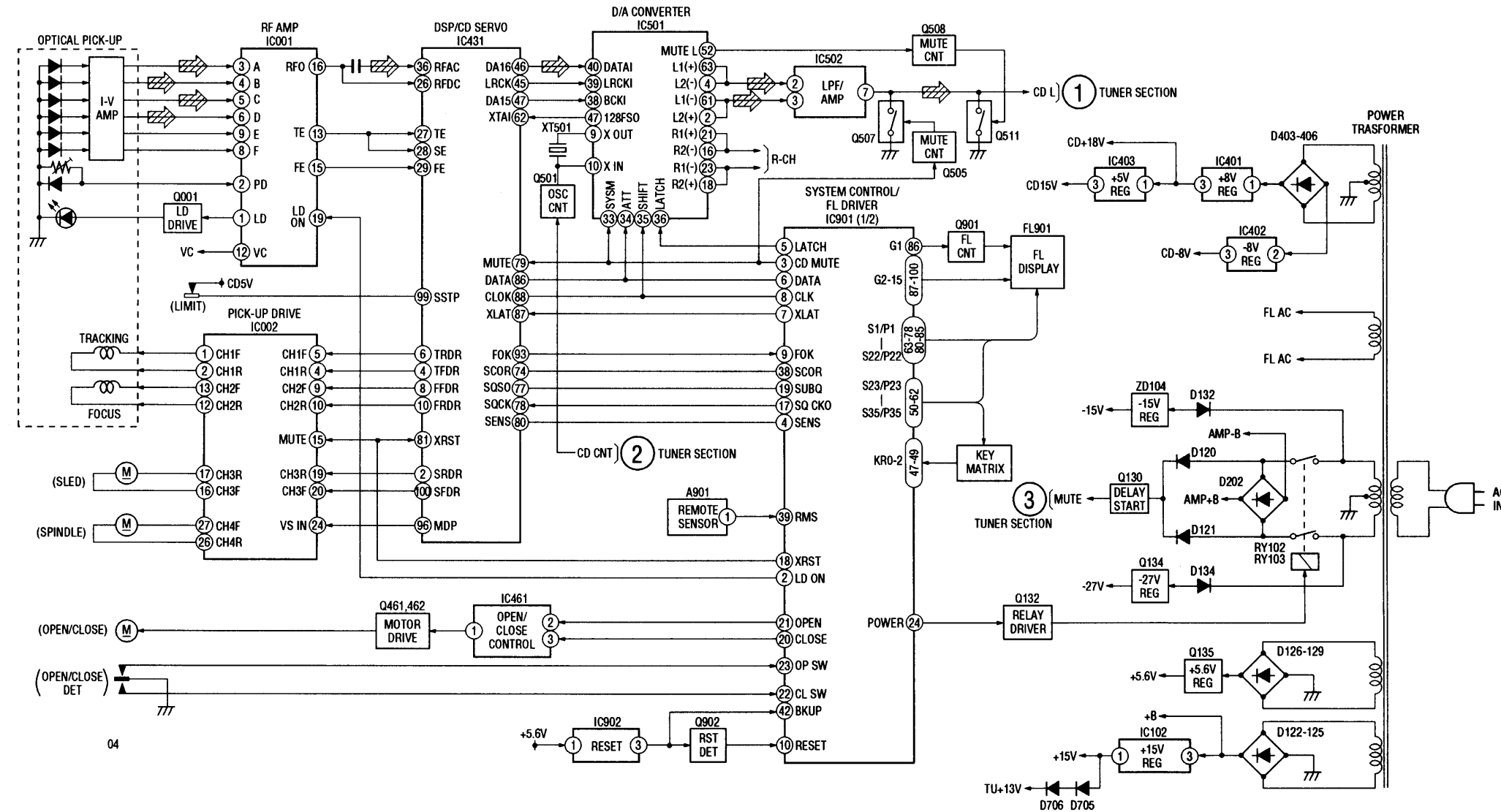


– front board (component side) –

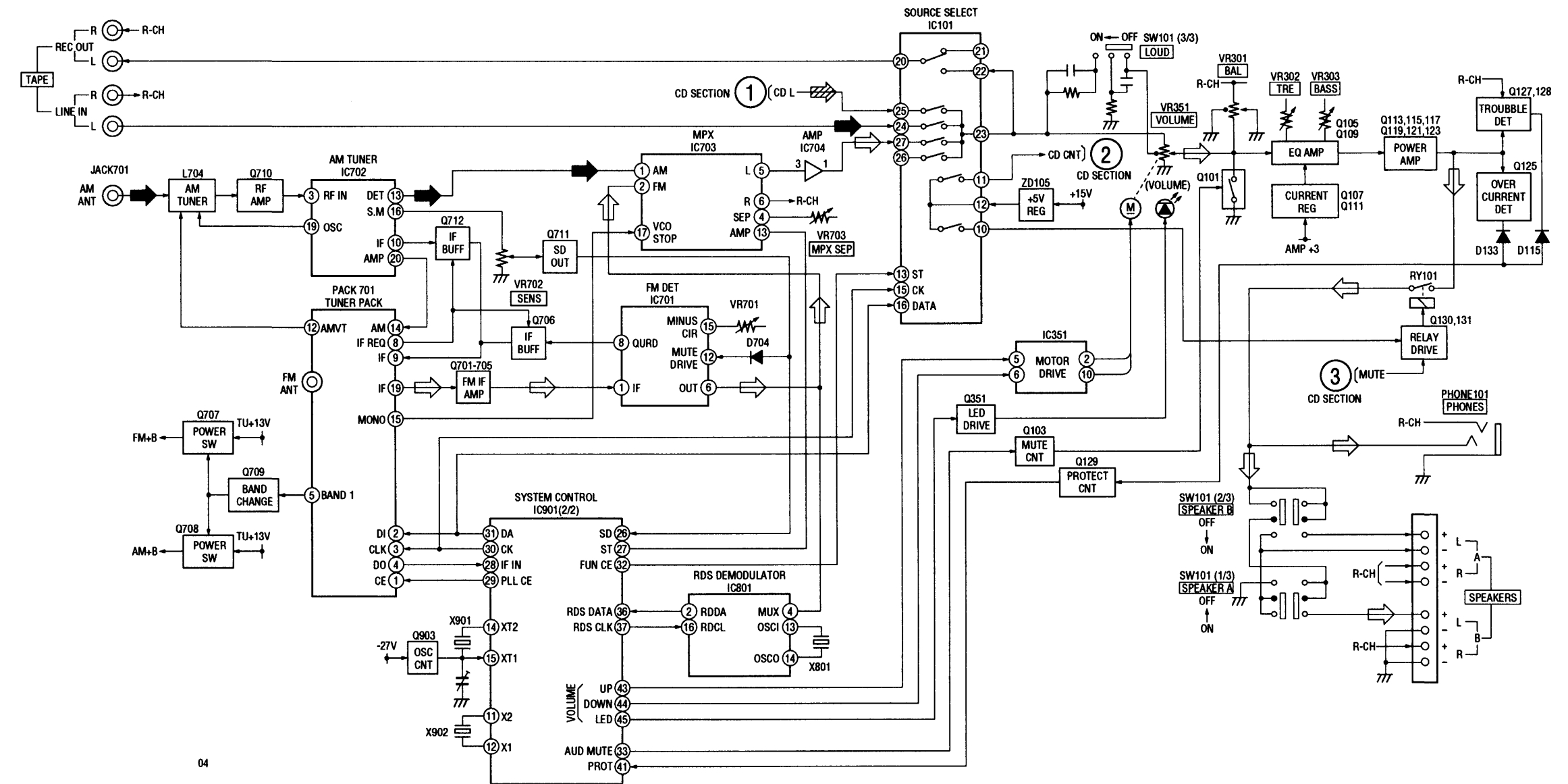


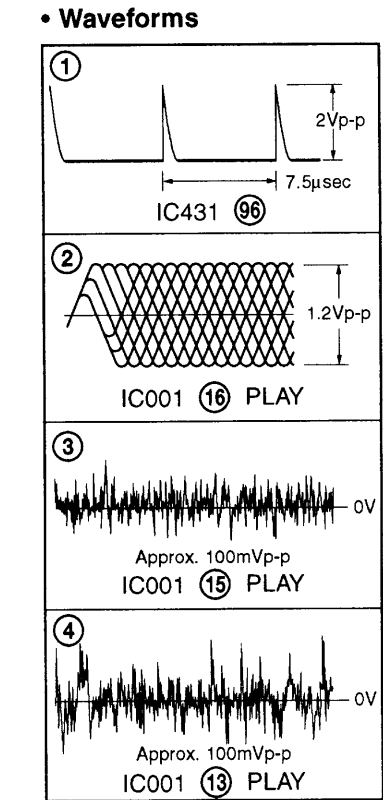
SECTION 4 DIAGRAMS

4-1. BLOCK DIAGRAM — CD SECTION —



4-2. BLOCK DIAGRAM — TUNER SECTION —





Note:

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

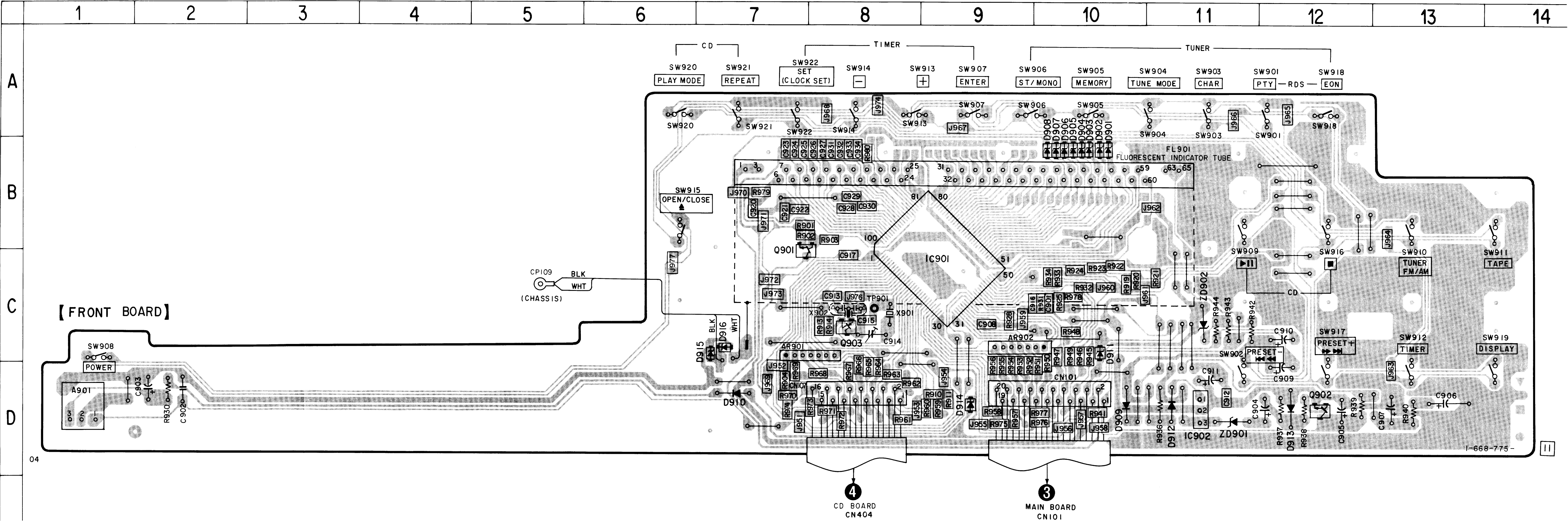
Note: The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

- **B+** : B+ Line.
- **B-** : B- Line.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark : CD STOP
 - * : Impossible to measure
- Voltages are taken with a VOM (input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - ⌘ : CD

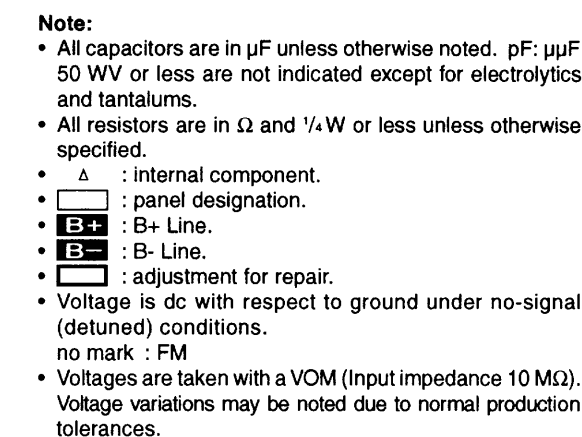
4-6. PRINTED WIRING BOARD — FRONT SECTION —

• Semiconductor
Location

Ref. No.	Location
D901	B-10
D902	B-10
D903	B-10
D904	B-10
D905	B-10
D906	B-10
D907	B-10
D908	B-10
D909	D-10
D910	D-7
D911	C-10
D912	D-11
D913	D-12
D914	D-9
D915	C-7
D916	C-7
IC901	C-9
IC902	D-11
Q901	B-7
Q902	D-12
Q903	C-8
ZD901	D-11
ZD902	C-11



Note:
• Δ : internal component.
• : Pattern from the side which enables seeing.

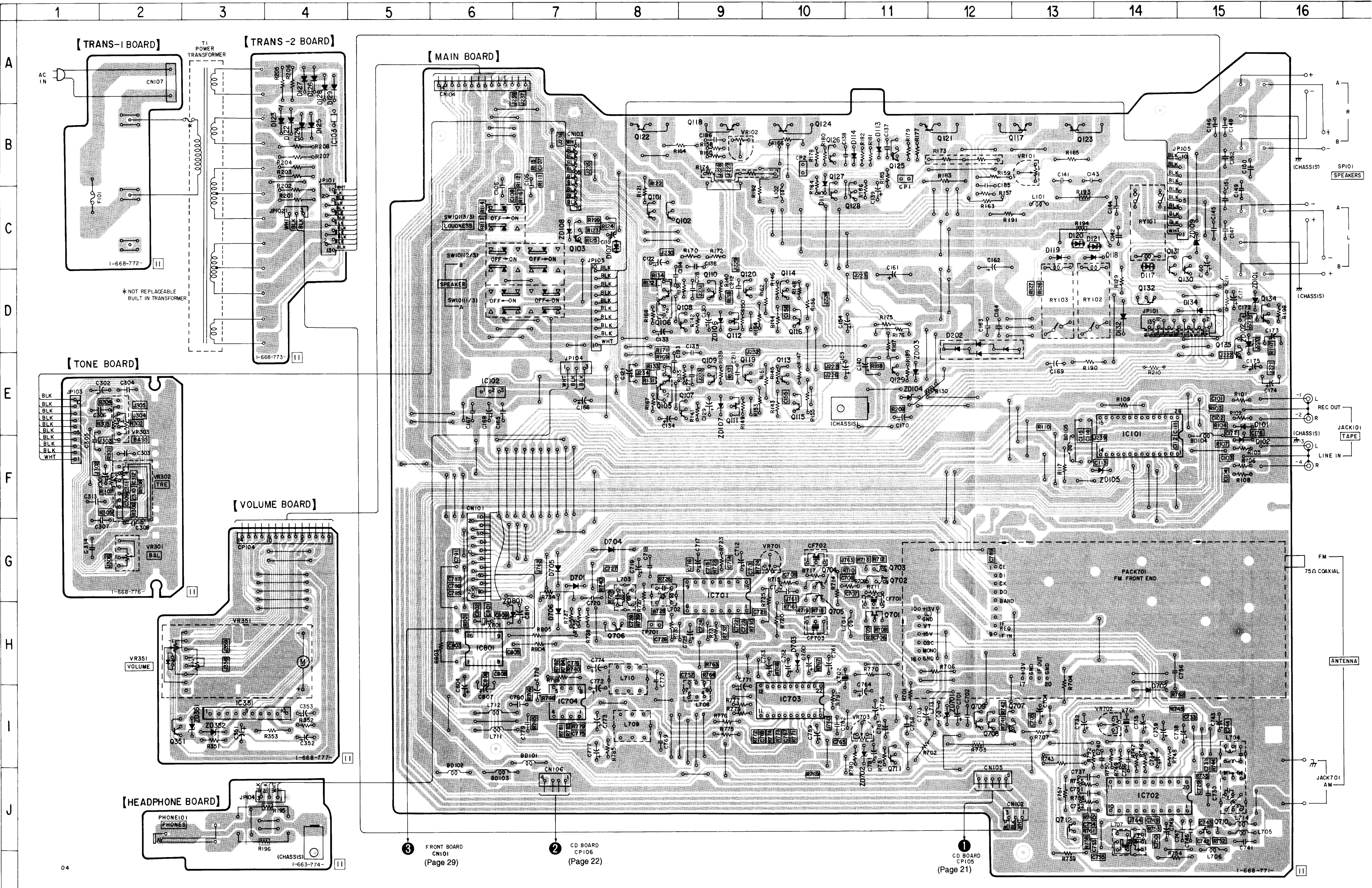


4-8. PRINTED WIRING BOARDS — MAIN SECTION —

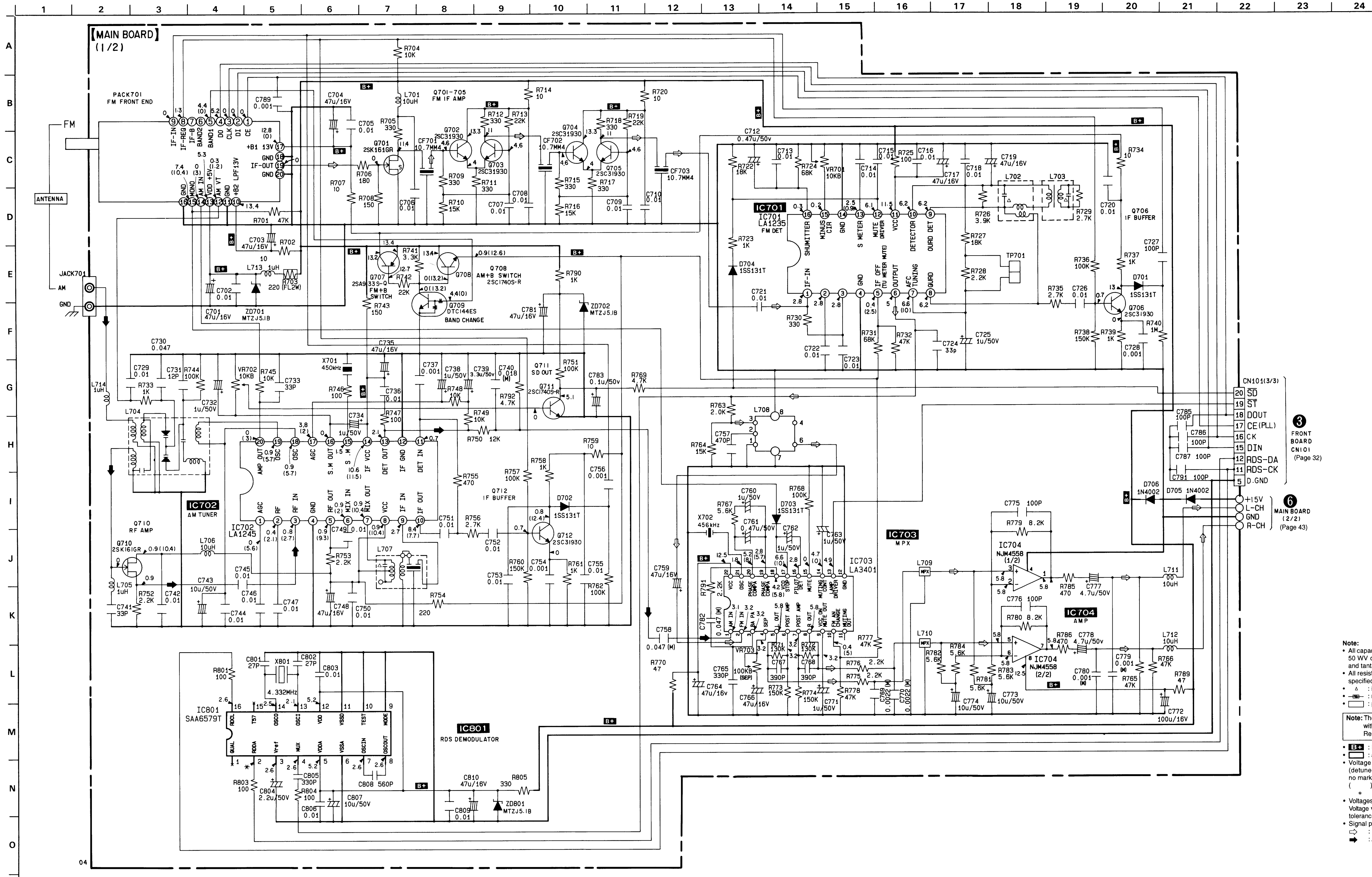
• Semiconductor Location

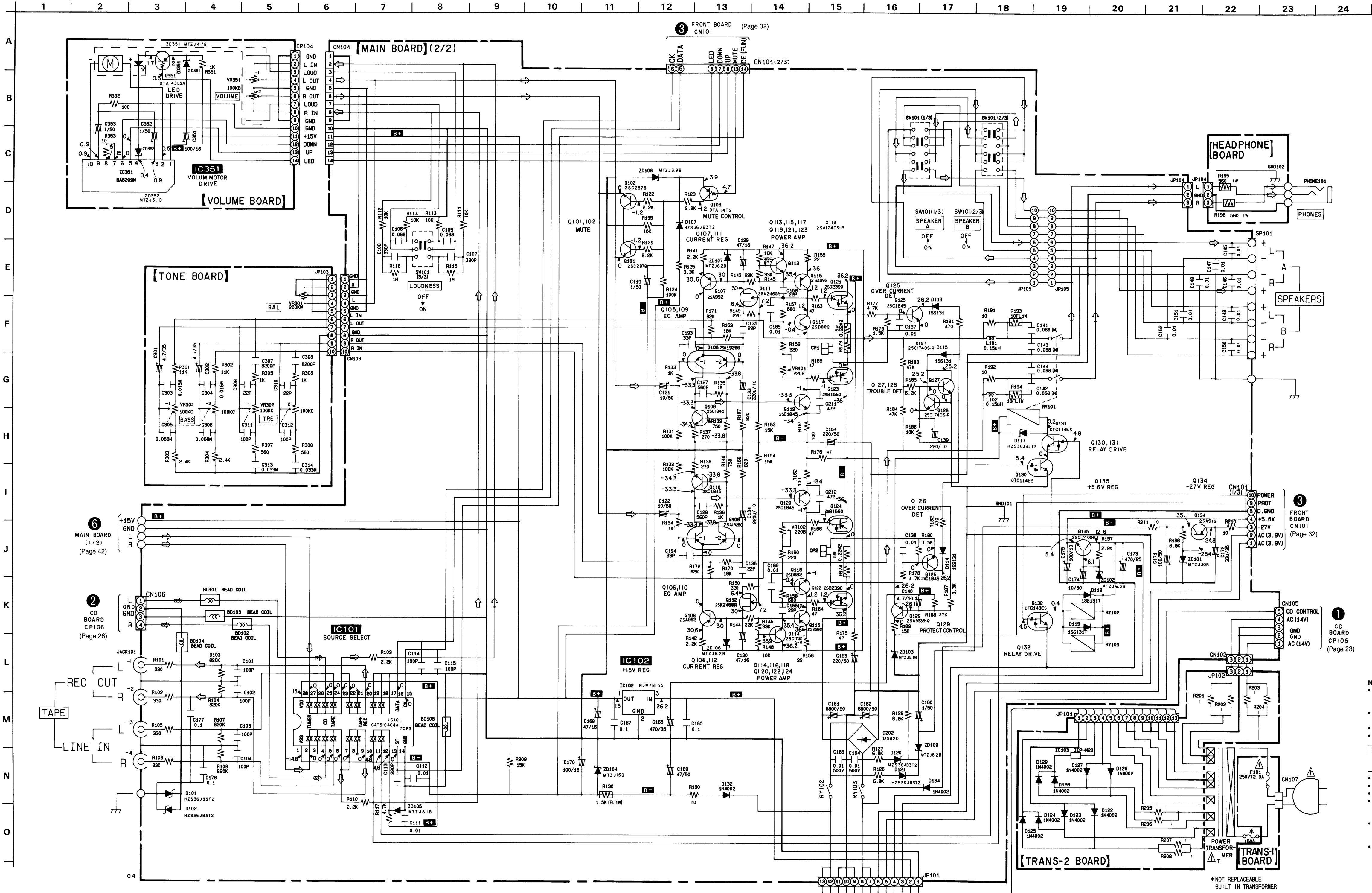
Ref. No.	Location	Ref. No.	Location
D101	E-15	Q115	E-10
D102	F-15	Q116	D-10
D107	C-8	Q117	B-12
D113	B-12	Q118	B-9
D114	B-11	Q119	E-9
D115	B-10	Q120	D-9
D117	C-14	Q121	B-11
D118	C-13	Q122	B-8
D119	C-13	Q123	B-13
D120	C-13	Q124	B-10
D121	C-13	Q125	B-11
D122	B-4	Q126	B-10
D123	B-4	Q127	C-10
D124	B-4	Q128	C-11
D125	B-4	Q129	E-11
D126	A-4	Q130	C-15
D127	A-4	Q131	C-14
D128	A-4	Q132	D-14
D129	A-4	Q134	D-15
D202	D-12	Q135	D-15
D701	G-7	Q351	I-2
D702	I-14	Q701	H-11
D703	H-10	Q702	G-11
D704	G-8	Q703	G-11
D705	G-7	Q704	G-10
D706	H-7	Q705	G-10
IC101	E-14	Q706	H-8
IC102	E-6	Q707	I-12
IC351	I-3	Q708	I-12
IC701	G-9	Q709	I-12
IC702	J-14	Q710	J-15
IC703	I-10	Q711	I-11
IC704	I-7	Q712	J-13
IC801	H-6		
Q101	C-8	ZD101	D-15
Q102	C-8	ZD102	D-15
Q103	C-7	ZD103	E-11
Q105	E-8	ZD104	E-11
Q106	D-8	ZD105	F-13
Q107	E-8	ZD106	D-9
Q108	D-8	ZD107	E-9
Q109	E-9	ZD108	C-7
Q110	C-9	ZD109	C-15
Q111	E-9	ZD351	I-3
Q112	D-9	ZD701	I-12
Q113	E-10	ZD702	I-11
Q114	D-10	ZD801	H-6

Note:
• — : parts extracted from the component side.
• — : Pattern from the side which enables seeing.



4-9. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 49 for IC Block Diagrams.





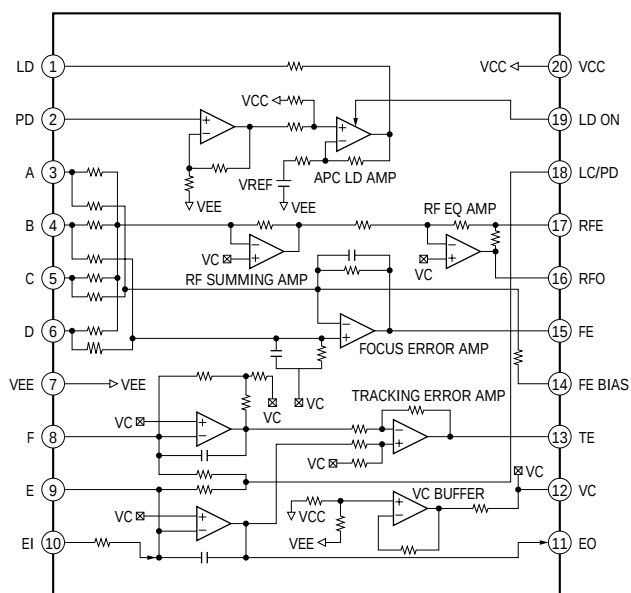
Note:
• All capacitors are in μF unless otherwise noted. pF : μpF
50 WV or less are not indicated except for electrolytics and tantalums.
• All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
• $\square$: nonflammable resistor.
• $\square$: panel designation.

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

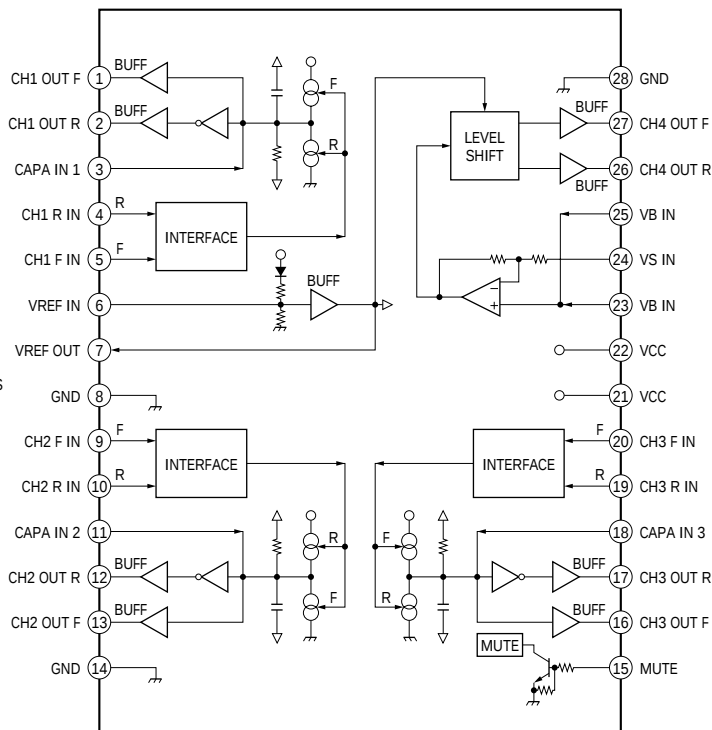
• $B+$: B+ Line.
• $B-$: B- Line.
• Δ : adjustment for repair.
• Voltage is dc with respect to ground under no-signal (detuned) conditions.
• no mark: FM
• Voltages are taken with a VOM (input impedance 10 $\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
• Signal path.
• $\rightarrow$: FM
• $\rightarrow$: CD

- IC Block Diagrams

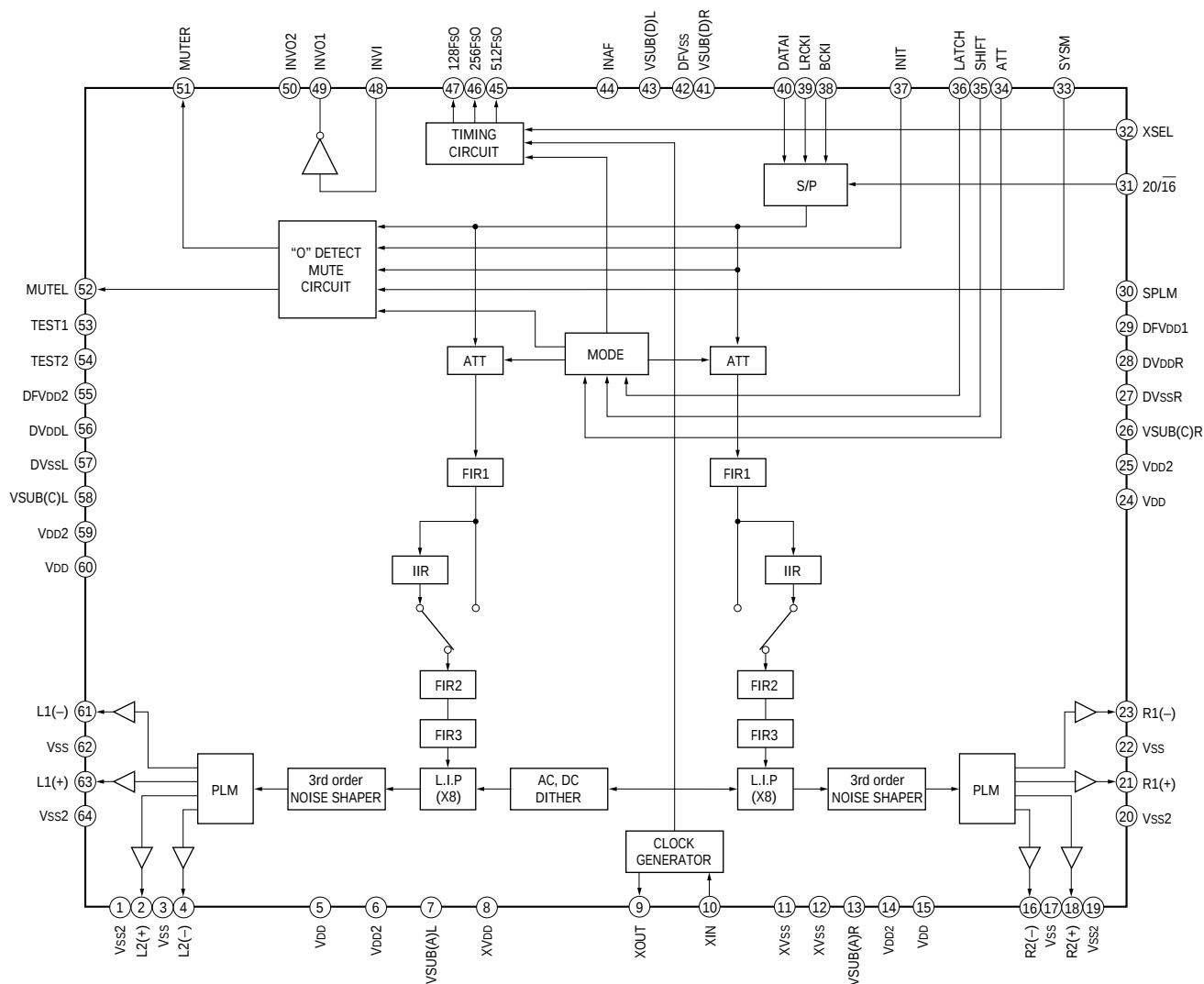
IC001 CXA1821M



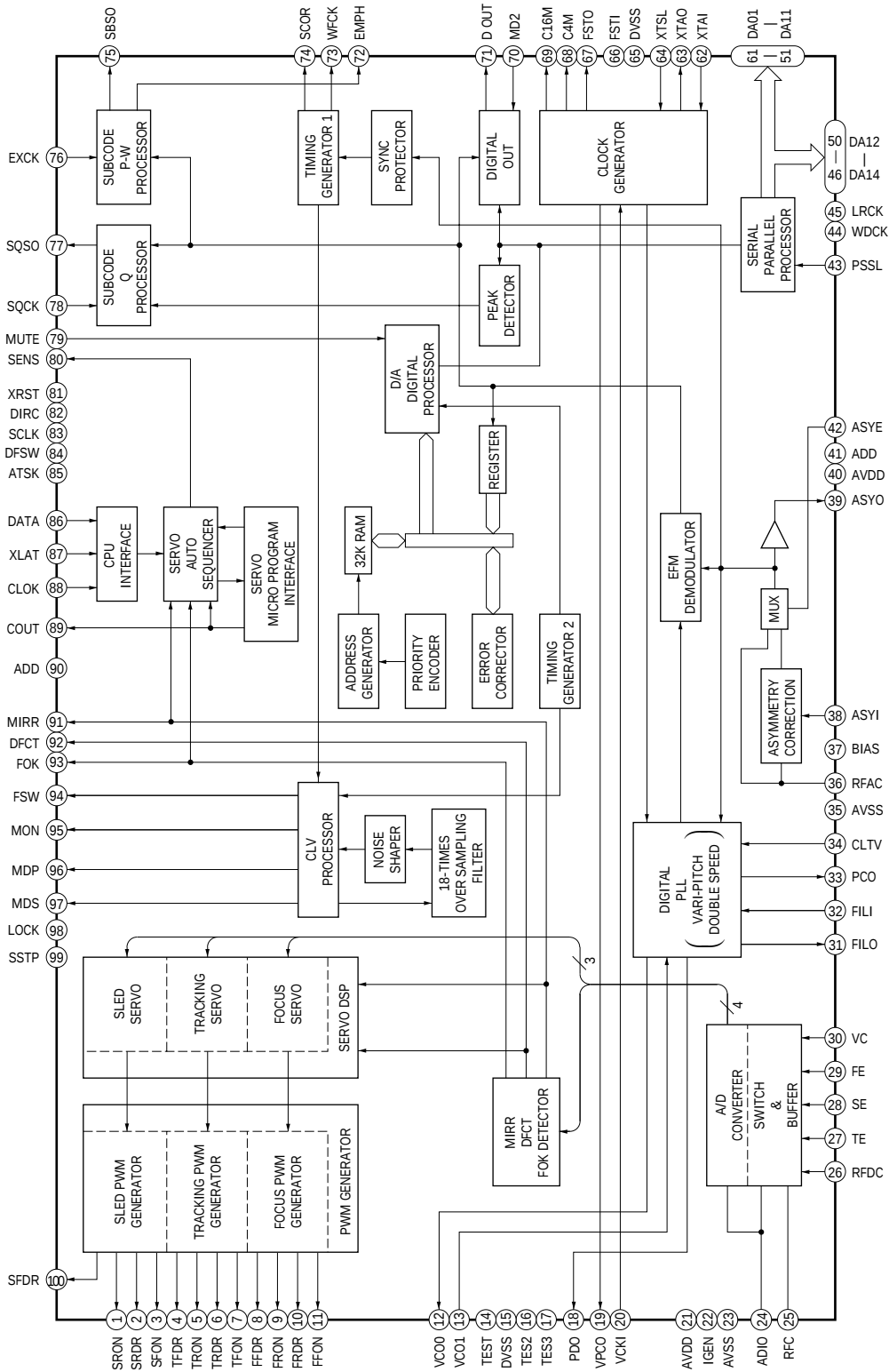
IC002 BA6392FP



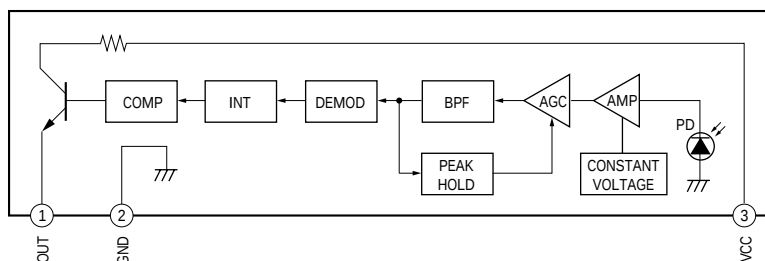
IC501 CXD8505BQ



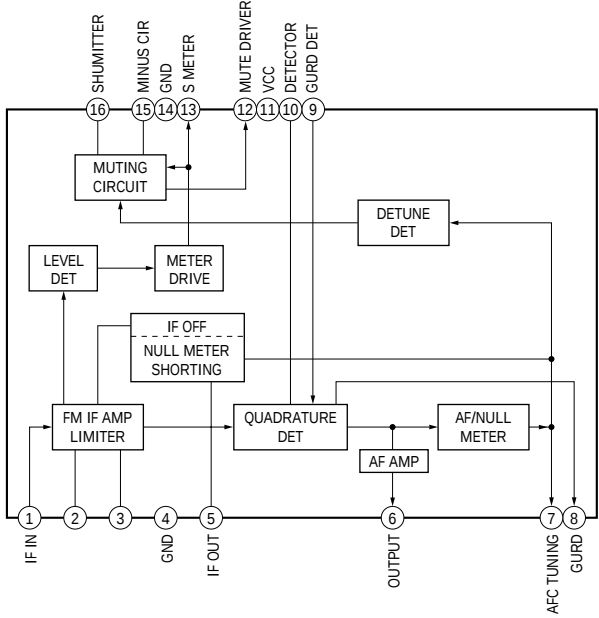
IC431 CXD2545Q



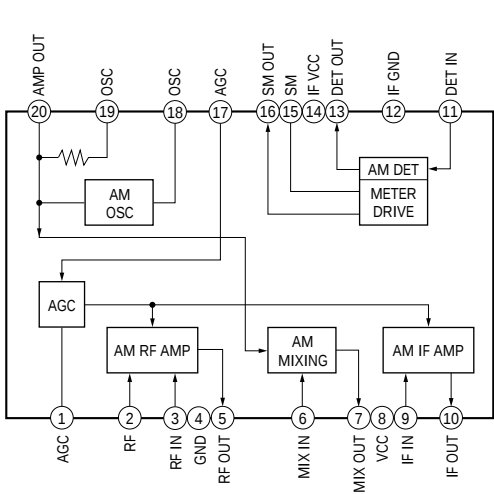
IC902 PNA4613M



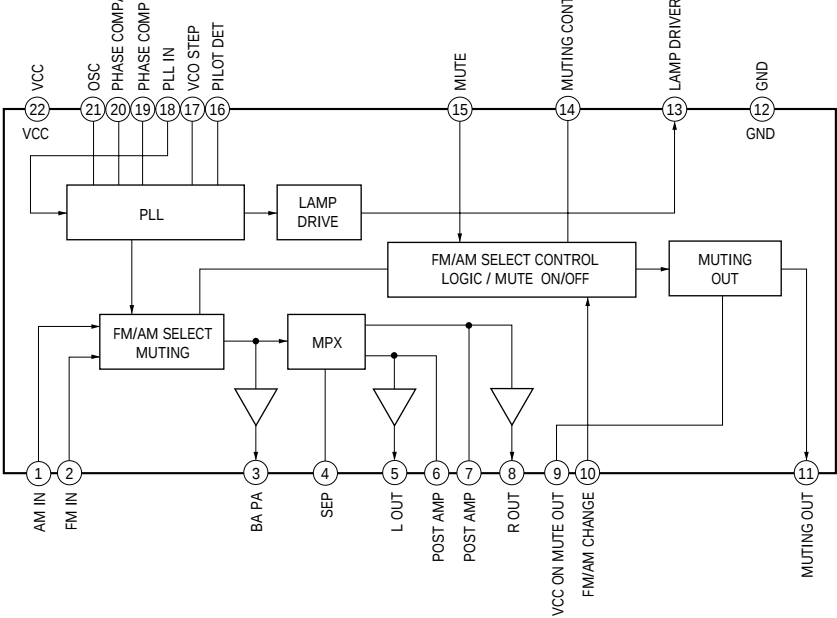
IC701 LA1235



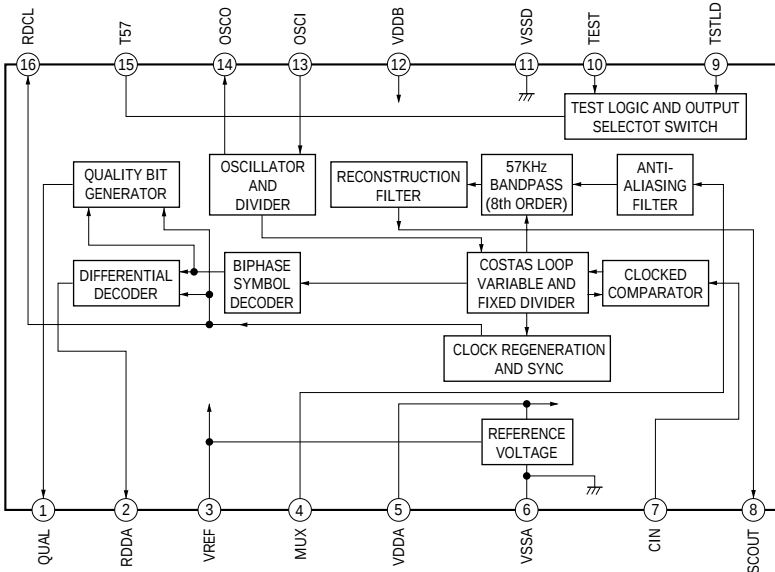
IC702 LA1245



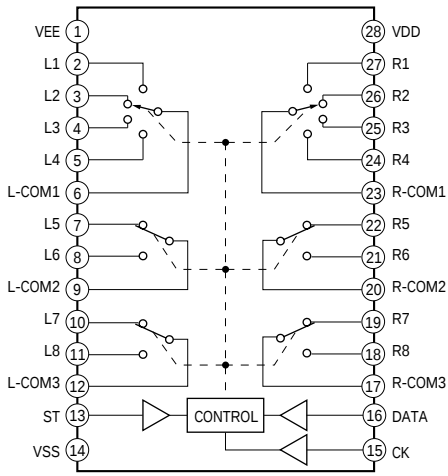
IC703 LA3401



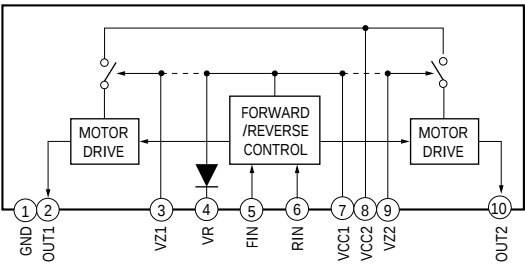
IC801 SAA6579T



IC101 NJU7313L



IC351 BA6209N



SECTION 5

EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

- Color Indication of Appearance Parts

Example :

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

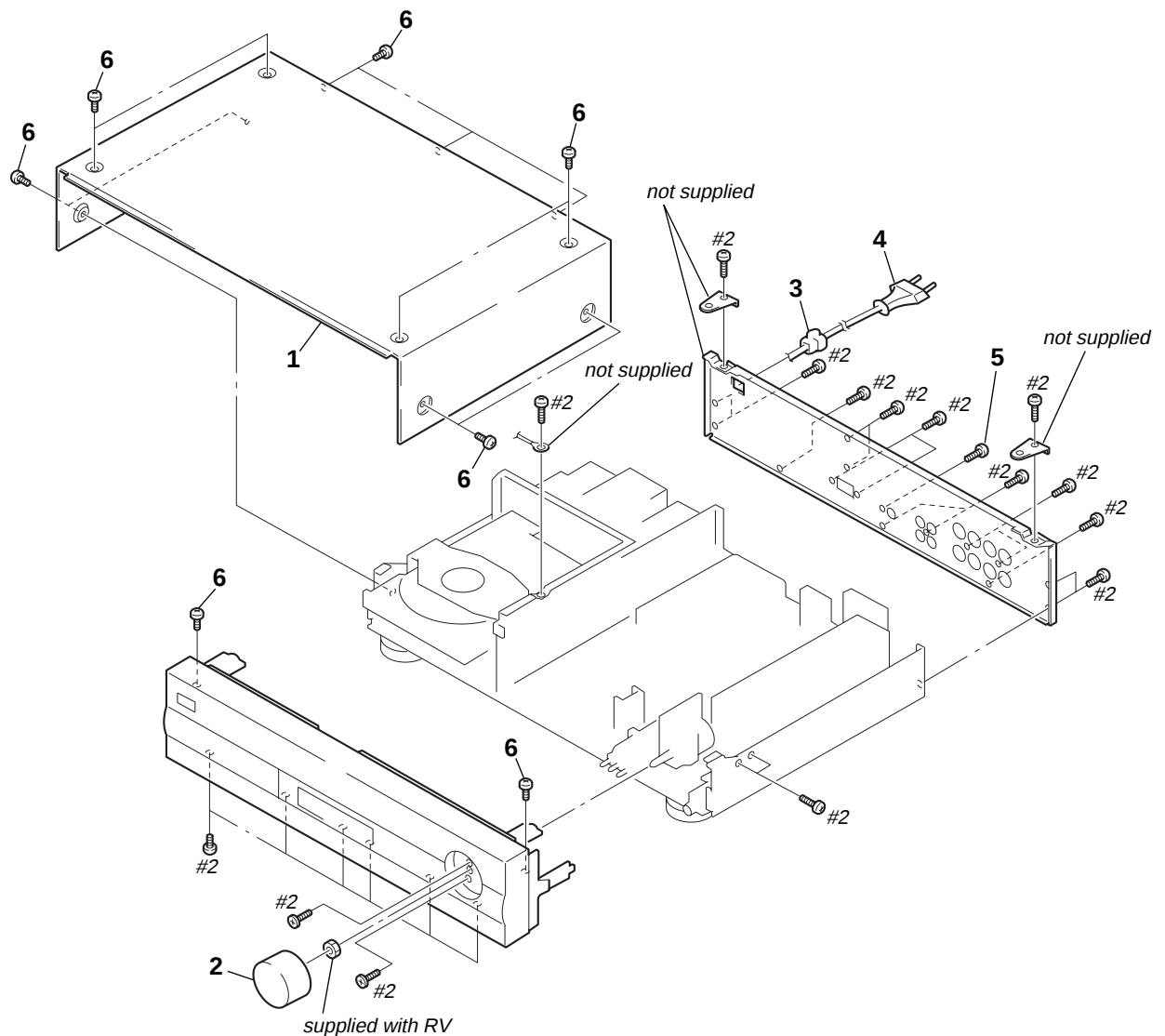
Parts Color Cabinet's Color

- Accessories and packing materials and hardware (# mark) list are given in the last of this parts list.

The components identified by mark $\triangle$ or dotted line with mark. $\triangle$ are critical for safety.

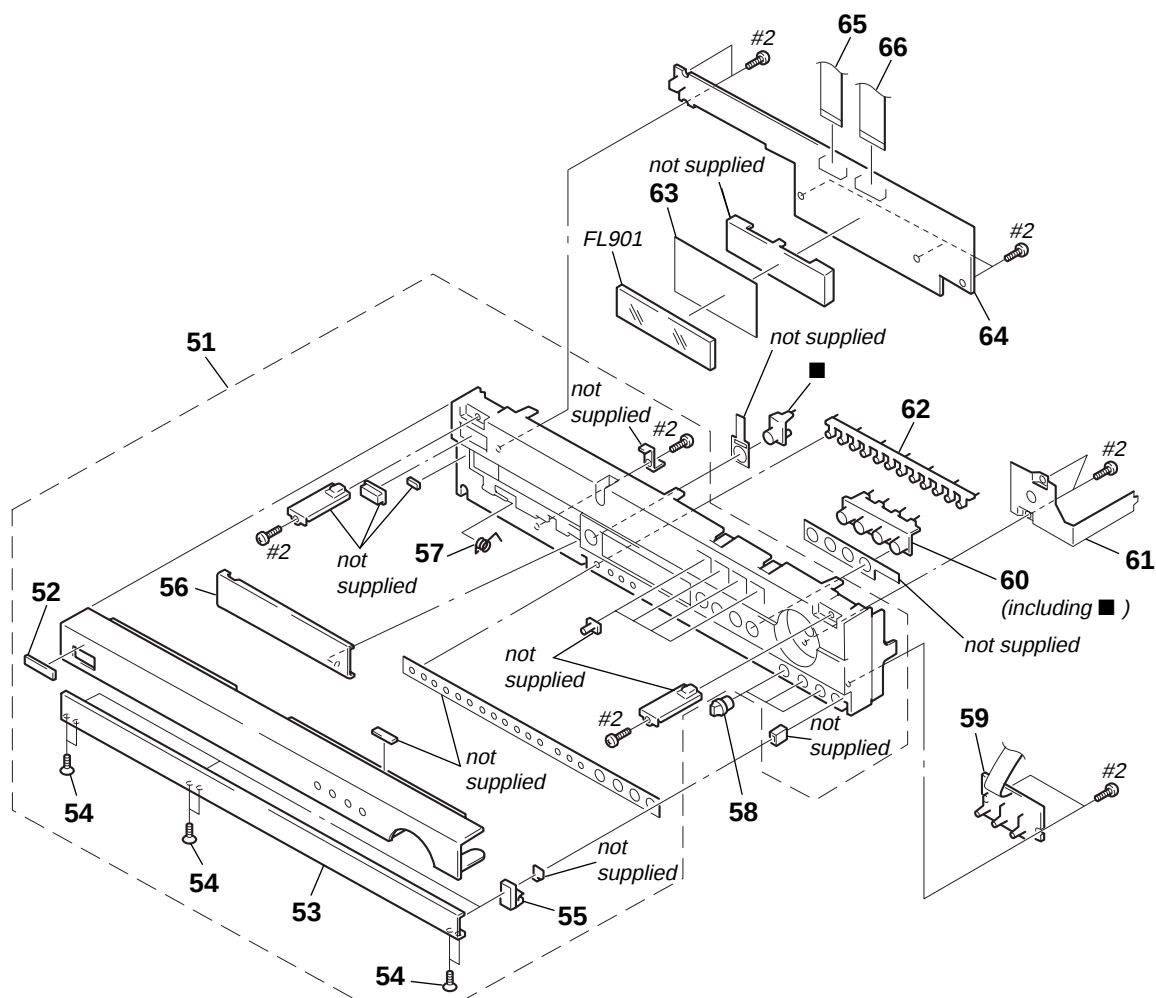
Replace only with part number specified.

5-1. CASE SECTION



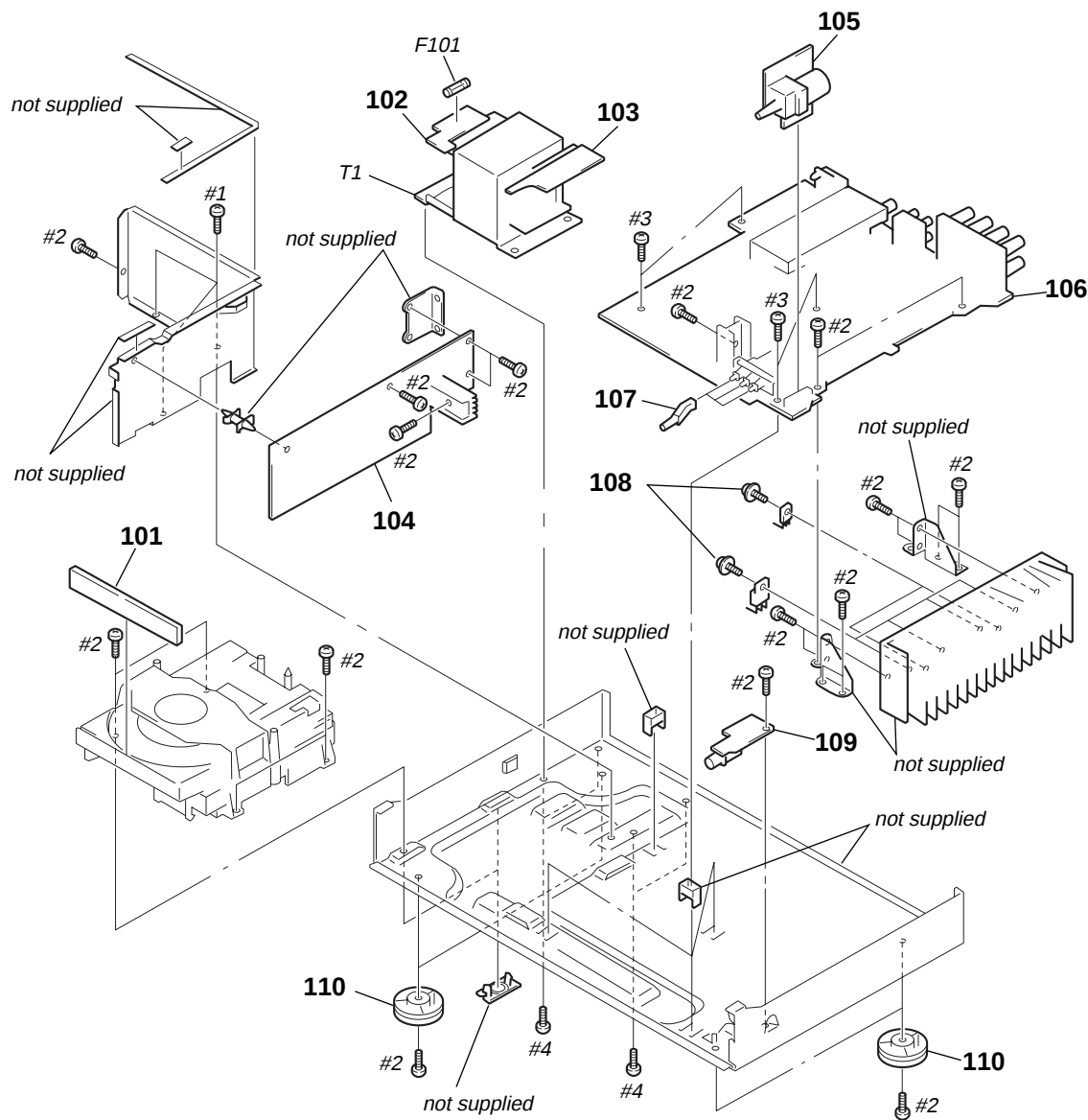
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 1	4-997-301-01	CABINET (TOP)		△ 4	1-575-651-11	CORD, POWER	
2	4-997-281-11	KNOB (VOLUME)		5	3-704-515-31	SCREW (BV/RING)	
3	4-997-291-01	STOPPER, AC CORD		6	4-997-889-01	SCREW (CASE)	

5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4949-438-1	PANEL ASSY, FRONT		60	4-997-284-01	BUTTON (FUNCTION)	
52	4-942-568-31	EMBLEM (NO.5), SONY		61	4-997-283-01	BRACKET (VOLUME)	
53	4-997-316-01	DOOR (FRONT)		62	4-997-300-01	BUTTON (CONTROL)	
54	4-997-895-01	SCREW (K 2X6)		* 63	4-997-304-01	PLATE (FLT)	
55	4-997-317-01	HOLDER (DOOR)		* 64	A-4407-347-A	FRONT BOARD, COMPLETE	
56	4-997-327-01	DOOR (CD)		65	1-782-465-11	WIRE (FLAT TYPE) (16 CORE)	
57	4-997-325-01	SPRING (DOOR)		66	1-769-326-11	WIRE (FLAT TYPE) (20 CORE)	
58	4-997-282-01	KNOB (CONTROL)		FL901	1-517-750-11	INDICATOR TUBE, FLUORESCENT	
* 59	A-4407-350-A	TONE BOARD, COMPLETE					

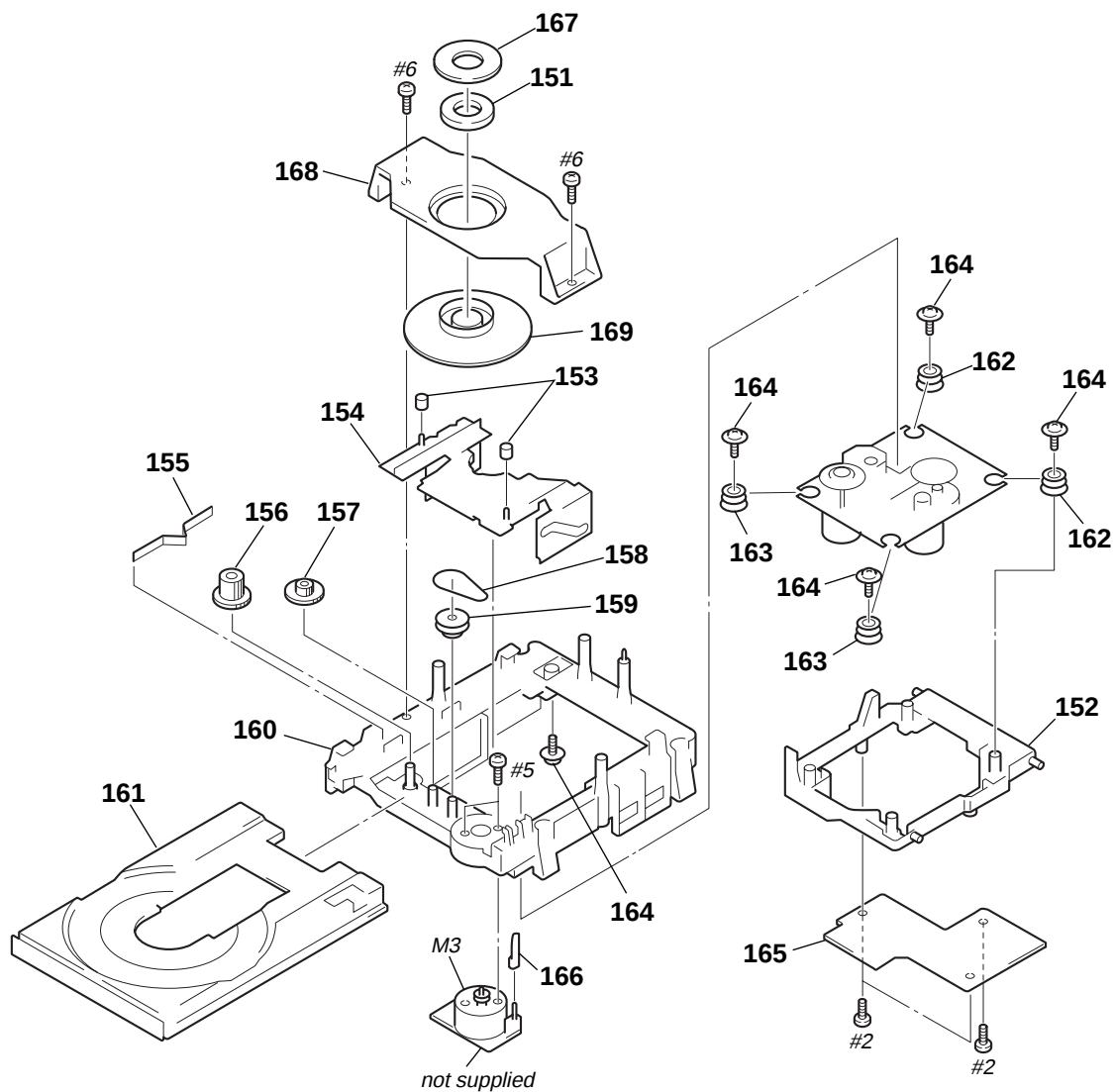
5-3. CHASSIS SECTION



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

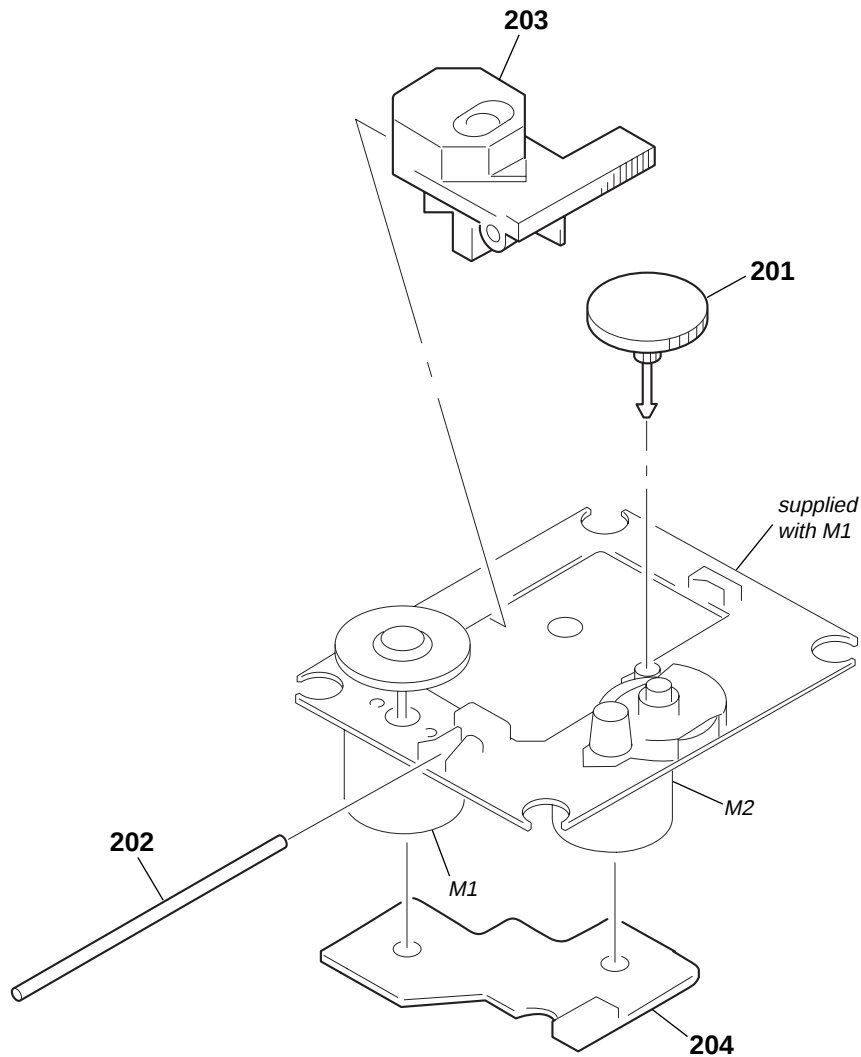
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4-997-298-01	COVER (TRAY)		107	4-997-285-01	KNOB (PUSH)	
* 102	A-4407-344-A	TRANS-1 BOARD, COMPLETE		108	4-997-888-01	SCREW (TR)	
* 103	A-4407-345-A	TRANS-2 BOARD, COMPLETE		* 109	A-4407-346-A	HEADPHONE BOARD, COMPLETE	
* 104	A-4407-348-A	CD BOARD, COMPLETE		110	X-4949-439-1	FOOT ASSY	
* 105	A-4407-349-A	VOLUME BOARD, COMPLETE		$\triangle$ F101	1-532-388-51	FUSE, TIME LAG (2A/250V)	
* 106	A-4407-343-A	MAIN BOARD, COMPLETE		$\triangle$ T1	1-431-725-11	TRANSFORMER, POWER	

5-4. CD MECHANISM SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-997-924-01	MAGNET (CORE 3)		161	4-997-932-01	TRAY	
152	4-997-934-01	FRAME (FEED)		162	4-997-892-01	INSULATOR (30'RED)	
153	4-997-893-01	STOPPER, RUBBER		163	4-997-891-01	INSULATOR (48'GREEN)	
154	4-997-926-01	FRAME, GUIDE		164	4-997-894-01	SCREW (W 3X8)	
155	4-997-928-01	SPRING (RACK)		* 165	A-4407-351-A	DRIVE BOARD, COMPLETE	
156	4-997-929-01	GEAR (LOAD)		166	4-997-890-01	HOLDER (S/W)	
157	4-997-930-01	GEAR (CENTER)		167	4-997-922-01	PLATE, CLAMP	
158	4-997-933-01	BELT		168	4-997-923-01	FLAPPER	
159	4-997-931-01	GEAR (PULLEY)		169	4-997-925-01	CLAMP (4)	
160	4-997-927-01	BASE, MECHANICAL		M3	X-4949-441-1	MOTOR ASSY, DC (OPEN/CLOSE)	

5-5. OPTICAL PICK-UP 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
201	2-625-188-02	GEAR (A) (K)		204	1-636-789-13	MOTOR-1 BOARD	
* 202	2-626-908-01	SHAFT, SLED		M1	X-2626-272-1	MOTOR ASSY (SPINDLE)	
$\triangle$ 203	8-848-483-05	OPTICAL PICK-UP KSS-213C/Q-RP		M2	X-2625-769-1	MOTOR ASSY, SLED	

SECTION 6

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

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

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

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

Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark	
*	A-4407-348-A	CD BOARD, COMPLETE *****			C453	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
		< CAPACITOR >			C461	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C401	1-163-031-11	CERAMIC CHIP 0.01uF		50V	C462	1-163-141-00	CERAMIC CHIP 0.001uF	5%	50V
C402	1-126-960-11	ELECT 1uF	20%	50V	C463	1-126-933-11	ELECT 100uF	20%	10V
C403	1-163-031-11	CERAMIC CHIP 0.01uF		50V	C464	1-163-031-11	CERAMIC CHIP 0.01uF		50V
C404	1-163-031-11	CERAMIC CHIP 0.01uF		50V	C465	1-126-933-11	ELECT 100uF	20%	10V
C405	1-163-031-11	CERAMIC CHIP 0.01uF		50V	C466	1-163-031-11	CERAMIC CHIP 0.01uF		50V
C406	1-163-031-11	CERAMIC CHIP 0.01uF		50V	C467	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C407	1-163-031-11	CERAMIC CHIP 0.01uF		50V	C468	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C408	1-163-031-11	CERAMIC CHIP 0.01uF		50V	C469	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C409	1-126-943-11	ELECT 2200uF	20%	25V	C471	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C411	1-126-943-11	ELECT 2200uF	20%	25V	C481	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C412	1-126-933-11	ELECT 100uF	20%	16V	C482	1-163-251-11	CERAMIC CHIP 100PF	5%	50V
C413	1-126-933-11	ELECT 100uF	20%	16V	C483	1-163-251-11	CERAMIC CHIP 100PF	5%	50V
C414	1-163-038-00	CERAMIC CHIP 0.1uF		25V	C484	1-163-251-11	CERAMIC CHIP 100PF	5%	50V
C415	1-163-038-00	CERAMIC CHIP 0.1uF		25V	C485	1-163-251-11	CERAMIC CHIP 100PF	5%	50V
C416	1-126-933-11	ELECT 100uF	20%	10V	C486	1-163-251-11	CERAMIC CHIP 100PF	5%	50V
C417	1-163-038-00	CERAMIC CHIP 0.1uF		25V	C487	1-163-227-11	CERAMIC CHIP 10PF	0.5PF	50V
C418	1-163-038-00	CERAMIC CHIP 0.1uF		25V	C488	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C419	1-163-038-00	CERAMIC CHIP 0.1uF		25V	C501	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C421	1-163-038-00	CERAMIC CHIP 0.1uF		25V	C502	1-163-102-00	CERAMIC CHIP 24PF	5%	50V
C430	1-163-038-00	CERAMIC CHIP 0.1uF		25V	C503	1-124-584-00	ELECT 100uF	20%	10V
C431	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	C504	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C432	1-163-038-00	CERAMIC CHIP 0.1uF		25V	C505	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C433	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	C506	1-126-933-11	ELECT 100uF	20%	10V
C434	1-163-011-11	CERAMIC CHIP 0.0015uF	10%	50V	C507	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C435	1-163-809-11	CERAMIC CHIP 0.047uF	10%	25V	C508	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C436	1-163-017-00	CERAMIC CHIP 0.0047uF	5%	50V	C509	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C437	1-126-933-11	ELECT 100uF	20%	10V	C511	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C438	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V	C512	1-126-933-11	ELECT 100uF	20%	10V
C439	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	C513	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C441	1-126-959-11	ELECT 0.47uF	20%	50V	C514	1-163-227-11	CERAMIC CHIP 10PF	0.5PF	50V
C442	1-163-031-11	CERAMIC CHIP 0.01uF		50V	C515	1-163-227-11	CERAMIC CHIP 10PF	0.5PF	50V
C443	1-126-933-11	ELECT 100uF	20%	10V	C516	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C444	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V	C517	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C445	1-126-933-11	ELECT 100uF	20%	10V	C518	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C446	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V	C519	1-126-933-11	ELECT 100uF	20%	10V
C447	1-163-038-00	CERAMIC CHIP 0.1uF		25V	C521	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C448	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V	C522	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C449	1-126-933-11	ELECT 100uF	20%	10V	C523	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C451	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V	C524	1-126-933-11	ELECT 100uF	20%	10V
C452	1-126-933-11	ELECT 100uF	20%	10V	C527	1-163-251-11	CERAMIC CHIP 100PF	5%	50V
					C528	1-163-253-11	CERAMIC CHIP 120PF	5%	50V
					C529	1-163-253-11	CERAMIC CHIP 120PF	5%	50V
					C531	1-126-933-11	ELECT 100uF	20%	10V

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark	
C532	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V				< JUMPER RESISTOR >					
C533	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V									
C534	1-163-137-00	CERAMIC CHIP	680PF	5%	50V		J471	1-216-296-00	CONDUCTOR, CHIP (3216)					
C535	1-163-038-91	CERAMIC CHIP	0.1uF		25V		J472	1-216-296-00	CONDUCTOR, CHIP (3216)					
C536	1-126-967-11	ELECT	47uF	20%	50V		J473	1-216-296-00	CONDUCTOR, CHIP (3216)					
							J474	1-216-296-00	CONDUCTOR, CHIP (3216)					
							J475	1-216-296-00	CONDUCTOR, CHIP (3216)					
C537	1-126-933-11	ELECT	100uF	20%	10V									
C538	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V									
C539	1-163-133-00	CERAMIC CHIP	470PF	5%	50V		J476	1-216-296-00	CONDUCTOR, CHIP (3216)					
C541	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		J477	1-216-296-00	CONDUCTOR, CHIP (3216)					
C542	1-163-253-11	CERAMIC CHIP	120PF	5%	50V		J478	1-216-296-00	CONDUCTOR, CHIP (3216)					
							J479	1-216-296-00	CONDUCTOR, CHIP (3216)					
C543	1-163-253-11	CERAMIC CHIP	120PF	5%	50V		J480	1-216-296-00	CONDUCTOR, CHIP (3216)					
C546	1-163-137-00	CERAMIC CHIP	680PF	5%	50V									
C547	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V		J481	1-216-296-00	CONDUCTOR, CHIP (3216)					
C548	1-126-933-11	ELECT	100uF	20%	10V		J482	1-216-296-00	CONDUCTOR, CHIP (3216)					
C549	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V		J483	1-216-296-00	CONDUCTOR, CHIP (3216)					
							J485	1-216-296-00	CONDUCTOR, CHIP (3216)					
							J486	1-216-296-00	CONDUCTOR, CHIP (3216)					
C551	1-126-933-11	ELECT	100uF	20%	10V									
C552	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V									
C553	1-126-967-11	ELECT	47uF	20%	50V		J487	1-216-296-00	CONDUCTOR, CHIP (3216)					
C554	1-163-038-91	CERAMIC CHIP	0.1uF		25V									
C555	1-163-133-00	CERAMIC CHIP	470PF	5%	50V				< COIL >					
C581	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V		L501	1-410-503-11	INDUCTOR	3.3uH				
C582	1-163-133-00	CERAMIC CHIP	470PF	5%	50V		L502	1-410-503-11	INDUCTOR	3.3uH				
C583	1-163-038-00	CERAMIC CHIP	0.1uF		25V									
C584	1-163-075-00	CERAMIC CHIP	0.047uF		50V				< TRANSISTOR >					
C585	1-163-038-00	CERAMIC CHIP	0.1uF		25V									
		< CONNECTOR >					Q461	8-729-043-89	TRANSISTOR	KTC3205Y				
							Q462	8-729-043-88	TRANSISTOR	KTA1273Y				
							Q501	8-729-901-01	TRANSISTOR	DTC144EK				
							Q505	8-729-900-99	TRANSISTOR	DTA144WK				
							Q506	8-729-027-60	TRANSISTOR	DTC144TKA-T146				
							Q507	8-729-027-60	TRANSISTOR	DTC144TKA-T146				
							Q508	8-729-901-06	TRANSISTOR	DTA144EK				
							Q509	8-729-901-06	TRANSISTOR	DTA144EK				
							Q511	8-729-027-56	TRANSISTOR	DTC143TKA-T146				
							Q512	8-729-027-56	TRANSISTOR	DTC143TKA-T146				
										< RESISTOR >				

Ref. No.	Part No.	Description			Remark
R449	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R461	1-216-001-00	METAL CHIP	10	5%	1/10W
R462	1-216-017-00	METAL GLAZE	47	5%	1/10W
R463	1-216-095-00	METAL CHIP	82K	5%	1/10W
R464	1-216-095-00	METAL CHIP	82K	5%	1/10W
R465	1-216-093-00	METAL CHIP	68K	5%	1/10W
R466	1-216-093-00	METAL CHIP	68K	5%	1/10W
R481	1-216-077-00	METAL CHIP	15K	5%	1/10W
R482	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R483	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R484	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R501	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R502	1-216-113-00	METAL CHIP	470K	5%	1/10W
R503	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R504	1-216-033-00	METAL CHIP	220	5%	1/10W
R505	1-249-393-11	CARBON	10	5%	1/4W
R506	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R507	1-216-085-00	METAL CHIP	33K	5%	1/10W
R508	1-216-085-00	METAL CHIP	33K	5%	1/10W
R509	1-216-085-00	METAL CHIP	33K	5%	1/10W
R511	1-216-085-00	METAL CHIP	33K	5%	1/10W
R512	1-249-401-11	CARBON	47	5%	1/4W
R513	1-216-081-00	METAL CHIP	22K	5%	1/10W
R514	1-216-079-00	METAL CHIP	18K	5%	1/10W
R515	1-216-081-00	METAL CHIP	22K	5%	1/10W
R516	1-216-079-00	METAL CHIP	18K	5%	1/10W
R519	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R521	1-216-044-00	METAL CHIP	620	5%	1/10W
R522	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R523	1-216-109-00	METAL CHIP	330K	5%	1/10W
R524	1-216-033-00	METAL CHIP	220	5%	1/10W
R526	1-216-033-00	METAL CHIP	220	5%	1/10W
R531	1-216-085-00	METAL CHIP	33K	5%	1/10W
R532	1-216-085-00	METAL CHIP	33K	5%	1/10W
R533	1-216-085-00	METAL CHIP	33K	5%	1/10W
R534	1-216-085-00	METAL CHIP	33K	5%	1/10W
R537	1-216-044-00	METAL CHIP	620	5%	1/10W
R538	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R539	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R541	1-216-081-00	METAL CHIP	22K	5%	1/10W
R542	1-216-079-00	METAL CHIP	18K	5%	1/10W
R543	1-216-081-00	METAL CHIP	22K	5%	1/10W
R544	1-216-079-00	METAL CHIP	18K	5%	1/10W
R545	1-216-109-00	METAL CHIP	330K	5%	1/10W
R546	1-216-033-00	METAL CHIP	220	5%	1/10W
R548	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R549	1-216-073-00	METAL CHIP	10K	5%	1/10W
R551	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R552	1-249-401-11	CARBON	47	5%	1/4W
R553	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R554	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R555	1-216-033-00	METAL CHIP	220	5%	1/10W
R556	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R581	1-216-049-11	METAL GLAZE	1K	5%	1/10W
< VIBRATOR >					
XT501	1-579-161-11	VIBRATOR, CRYSTAL (45.1584MHz)			

*	A-4407-351-A	DRIVE BOARD, COMPLETE			

	1-769-326-11	WIRE (FLAT TYPE) (20 CORE)			
< CAPACITOR >					
C001	1-124-584-00	ELECT	100uF	20%	10V
C002	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C003	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C004	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C006	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C007	1-124-584-00	ELECT	100uF	20%	10V
C008	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C009	1-124-584-00	ELECT	100uF	20%	10V
C010	1-124-584-00	ELECT	100uF	20%	10V
C020	1-124-252-00	ELECT	0.33uF	20%	50V
C021	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C022	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C023	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C024	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C025	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C026	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C027	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C028	1-124-584-00	ELECT	100uF	20%	10V
C029	1-124-584-00	ELECT	100uF	20%	10V
< CONNECTOR >					
CN001	1-695-381-31	PIN, CONNECTOR (PC BOARD) 20P			
CN002	1-770-168-11	CONNECTOR, FFC/FPC 16P			
* CN003	1-566-003-11	PIN, CONNECTOR (PC BOARD) 6P			
< DIODE >					
D001	8-719-815-85	DIODE 1S1585			
< IC >					
IC001	8-752-072-43	IC CXA1821M			
IC002	8-759-176-09	IC BA6392FP			
< JUMPER RESISTOR >					
J031	1-216-295-00	CONDUCTOR, CHIP (2012)			
J032	1-216-295-00	CONDUCTOR, CHIP (2012)			
< COIL >					
L001	1-410-509-11	INDUCTOR		10uH	

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
Q001	8-729-141-03	< TRANSISTOR >					C926	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
							C927	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
		TRANSISTOR	2SA733-QP				C928	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
							C929	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
		< RESISTOR >					C930	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
R001	1-216-089-00	METAL GLAZE	47K	5%	1/10W	C931	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		
R002	1-216-081-00	METAL CHIP	22K	5%	1/10W	C932	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		
R003	1-216-101-00	METAL CHIP	150K	5%	1/10W	C933	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		
R004	1-216-101-00	METAL CHIP	150K	5%	1/10W	C934	1-163-263-11	CERAMIC CHIP	330PF	5%	50V		
R005	1-216-073-00	METAL CHIP	10K	5%	1/10W	< CONNECTOR >							
R006	1-216-081-00	METAL CHIP	22K	5%	1/10W	CN101	1-695-381-31	PIN, CONNECTOR (PC BOARD) 20P					
R007	1-216-009-00	METAL CHIP	22	5%	1/10W	CN107	1-695-377-21	PIN, CONNECTOR (PC BOARD) 16P					
R020	1-216-308-00	METAL CHIP	4.7	5%	1/10W	< DIODE >							
R021	1-216-101-00	METAL CHIP	150K	5%	1/10W	D901	8-719-927-70	DIODE	HZS36JB3T2				
R022	1-216-091-00	METAL CHIP	56K	5%	1/10W	D902	8-719-927-70	DIODE	HZS36JB3T2				
R023	1-216-101-00	METAL CHIP	150K	5%	1/10W	D903	8-719-927-70	DIODE	HZS36JB3T2				

*	A-4407-347-A	FRONT BOARD, COMPLETE					D904	8-719-927-70	DIODE	HZS36JB3T2			

	1-769-326-11	WIRE (FLAT TYPE) (20 CORE)					D905	8-719-927-70	DIODE	HZS36JB3T2			
	1-782-465-11	WIRE (FLAT TYPE) (16 CORE)					D906	8-719-927-70	DIODE	HZS36JB3T2			
	< IC >												
A901	8-749-013-49	IC	PNA4613M00XD				D907	8-719-927-70	DIODE	HZS36JB3T2			
< CAPACITOR >													
C901	1-163-031-11	CERAMIC CHIP	0.01uF		50V		D908	8-719-927-70	DIODE	HZS36JB3T2			
C902	1-162-290-31	CERAMIC	470PF	10%	50V		D909	8-719-815-85	DIODE	1S1585			
C903	1-126-966-11	ELECT	33uF	20%	50V		D910	8-719-815-85	DIODE	1S1585			
C904	1-126-163-11	ELECT	4.7uF	20%	50V		D911	8-719-927-70	DIODE	HZS36JB3T2			
C905	1-126-301-11	ELECT	1uF	20%	50V		D912	8-719-815-85	DIODE	1S1585			
C906	1-104-905-11	DOUBLE LAYERS	0.22F		5.5V		D913	8-719-815-85	DIODE	1S1585			
C907	1-124-584-00	ELECT	100uF	20%	10V		D914	8-719-927-70	DIODE	HZS36JB3T2			
C908	1-163-031-11	CERAMIC CHIP	0.01uF		50V		D915	8-719-927-70	DIODE	HZS36JB3T2			
C909	1-126-163-11	ELECT	4.7uF	20%	50V		D916	8-719-927-70	DIODE	HZS36JB3T2			
C910	1-126-163-11	ELECT	4.7uF	20%	50V		< FLUORESCENT INDICATOR >						
C911	1-126-966-11	ELECT	33uF	20%	50V	FL901	1-517-750-11	INDICATOR TUBE, FLUORESCENT					
C912	1-163-031-11	CERAMIC CHIP	0.01uF		50V	< IC >							
C913	1-163-033-91	CERAMIC CHIP	0.022uF		50V	IC901	8-759-497-96	IC uPD780206GF-024-3BA					
C914	1-141-245-00	CAP, TRIMMER	30PF			IC902	8-749-010-99	IC KIA7039P-AT					
C915	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	< JUMPER RESISTOR >							
C916	1-163-031-11	CERAMIC CHIP	0.01uF		50V	J951	1-216-296-00	CONDUCTOR, CHIP (3216)					
C917	1-163-038-91	CERAMIC CHIP	0.1uF		25V	J952	1-216-296-00	CONDUCTOR, CHIP (3216)					
C920	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	J953	1-216-296-00	CONDUCTOR, CHIP (3216)					
C921	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	J954	1-216-296-00	CONDUCTOR, CHIP (3216)					
C922	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	J955	1-216-296-00	CONDUCTOR, CHIP (3216)					
C923	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	J956	1-216-296-00	CONDUCTOR, CHIP (3216)					
C924	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	J957	1-216-296-00	CONDUCTOR, CHIP (3216)					
C925	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	J958	1-216-296-00	CONDUCTOR, CHIP (3216)					
						J959	1-216-296-00	CONDUCTOR, CHIP (3216)					
						J960	1-216-296-00	CONDUCTOR, CHIP (3216)					

FRONT

Ref. No.	Part No.	Description					Remark	Ref. No.	Part No.	Description					Remark
J961	1-216-296-00	CONDUCTOR, CHIP (3216)						R945	1-216-049-11	METAL GLAZE	1K	5%		1/10W	
J962	1-216-296-00	CONDUCTOR, CHIP (3216)						R946	1-216-049-11	METAL GLAZE	1K	5%		1/10W	
J963	1-216-296-00	CONDUCTOR, CHIP (3216)						R947	1-216-049-11	METAL GLAZE	1K	5%		1/10W	
J964	1-216-296-00	CONDUCTOR, CHIP (3216)						R948	1-216-049-11	METAL GLAZE	1K	5%		1/10W	
J965	1-216-296-00	CONDUCTOR, CHIP (3216)						R949	1-216-049-11	METAL GLAZE	1K	5%		1/10W	
J966	1-216-296-00	CONDUCTOR, CHIP (3216)						R950	1-216-049-11	METAL GLAZE	1K	5%		1/10W	
J967	1-216-296-00	CONDUCTOR, CHIP (3216)						R951	1-216-025-00	METAL GLAZE	100	5%		1/10W	
J968	1-216-296-00	CONDUCTOR, CHIP (3216)						R952	1-216-049-11	METAL GLAZE	1K	5%		1/10W	
J969	1-216-296-00	CONDUCTOR, CHIP (3216)						R953	1-216-049-11	METAL GLAZE	1K	5%		1/10W	
J970	1-216-296-00	CONDUCTOR, CHIP (3216)						R954	1-216-049-11	METAL GLAZE	1K	5%		1/10W	
J971	1-216-296-00	CONDUCTOR, CHIP (3216)						R955	1-216-049-11	METAL GLAZE	1K	5%		1/10W	
J972	1-216-296-00	CONDUCTOR, CHIP (3216)						R956	1-216-049-11	METAL GLAZE	1K	5%		1/10W	
J973	1-216-296-00	CONDUCTOR, CHIP (3216)						R957	1-216-041-00	METAL CHIP	470	5%		1/10W	
J974	1-216-296-00	CONDUCTOR, CHIP (3216)						R958	1-216-041-00	METAL CHIP	470	5%		1/10W	
J976	1-216-296-00	CONDUCTOR, CHIP (3216)						R959	1-216-073-00	METAL CHIP	10K	5%		1/10W	
J977	1-216-296-00	CONDUCTOR, CHIP (3216)						R960	1-216-073-00	METAL CHIP	10K	5%		1/10W	
							R961	1-216-077-00	METAL CHIP	15K	5%		1/10W		
							R962	1-216-077-00	METAL CHIP	15K	5%		1/10W		
							R963	1-216-073-00	METAL CHIP	10K	5%		1/10W		
Q901	8-729-620-06	TRANSISTOR	2SC3052-EF					R964	1-216-049-11	METAL GLAZE	1K	5%		1/10W	
Q902	8-729-620-06	TRANSISTOR	2SC3052-EF												
Q903	8-729-033-66	TRANSISTOR	2SK211-O-TE85L												
							R965	1-216-073-00	METAL CHIP	10K	5%		1/10W		
							R966	1-216-073-00	METAL CHIP	10K	5%		1/10W		
							R967	1-216-073-00	METAL CHIP	10K	5%		1/10W		
							R968	1-216-073-00	METAL CHIP	10K	5%		1/10W		
							R969	1-216-049-11	METAL GLAZE	1K	5%		1/10W		
R901	1-216-097-00	METAL GLAZE	100K	5%		1/10W									
R902	1-216-097-00	METAL GLAZE	100K	5%		1/10W									
R903	1-216-025-00	METAL GLAZE	100	5%		1/10W	R970	1-216-073-00	METAL CHIP	10K	5%		1/10W		
R904	1-216-097-00	METAL GLAZE	100K	5%		1/10W	R971	1-216-061-00	METAL CHIP	3.3K	5%		1/10W		
R910	1-216-097-00	METAL GLAZE	100K	5%		1/10W	R972	1-216-073-00	METAL CHIP	10K	5%		1/10W		
							R973	1-216-073-00	METAL CHIP	10K	5%		1/10W		
R911	1-216-097-00	METAL GLAZE	100K	5%		1/10W	R974	1-216-049-11	METAL GLAZE	1K	5%		1/10W		
R913	1-216-097-00	METAL GLAZE	100K	5%		1/10W									
R914	1-216-083-00	METAL CHIP	27K	5%		1/10W	R975	1-216-073-00	METAL CHIP	10K	5%		1/10W		
R919	1-216-097-00	METAL GLAZE	100K	5%		1/10W	R976	1-216-097-00	METAL GLAZE	100K	5%		1/10W		
R920	1-216-097-00	METAL GLAZE	100K	5%		1/10W	R977	1-216-025-00	METAL GLAZE	100	5%		1/10W		
							R978	1-216-093-00	METAL CHIP	68K	5%		1/10W		
R921	1-216-097-00	METAL GLAZE	100K	5%		1/10W	R979	1-216-073-00	METAL CHIP	10K	5%		1/10W		
R922	1-216-025-00	METAL GLAZE	100	5%		1/10W									
R923	1-216-025-00	METAL GLAZE	100	5%		1/10W	R980	1-216-073-00	METAL CHIP	10K	5%		1/10W		
R924	1-216-025-00	METAL GLAZE	100	5%		1/10W									
R925	1-216-073-00	METAL CHIP	10K	5%		1/10W	< SWITCH >								
R928	1-216-097-00	METAL GLAZE	100K	5%		1/10W	SW901	1-762-196-21	SWITCH, TACT (PTY (RDS))						
R930	1-249-393-11	CARBON	10	5%		1/4W	SW902	1-762-196-21	SWITCH, TACT (PRESET - / ◀◀ ◀◀)						
R931	1-216-097-00	METAL GLAZE	100K	5%		1/10W	SW903	1-762-196-21	SWITCH, TACT (CHAR)						
R932	1-216-089-00	METAL GLAZE	47K	5%		1/10W	SW904	1-762-196-21	SWITCH, TACT (TUNE MODE)						
R933	1-216-089-00	METAL GLAZE	47K	5%		1/10W	SW905	1-762-196-21	SWITCH, TACT (MEMORY)						
R934	1-216-089-00	METAL GLAZE	47K	5%		1/10W	SW906	1-762-196-21	SWITCH, TACT (ST/MONO)						
R936	1-249-421-11	CARBON	2.2K	5%		1/4W	SW907	1-762-196-21	SWITCH, TACT (ENTER)						
R937	1-249-437-11	CARBON	47K	5%		1/4W	SW908	1-762-196-21	SWITCH, TACT (POWER)						
R938	1-249-417-11	CARBON	1K	5%		1/4W	SW909	1-762-196-21	SWITCH, TACT (▶▶ (CD))						
R939	1-249-429-11	CARBON	10K	5%		1/4W	SW910	1-762-196-21	SWITCH, TACT (TUNER FM/AM)						
R940	1-249-417-11	CARBON	1K	5%		1/4W	SW911	1-762-196-21	SWITCH, TACT (TAPE)						
R941	1-216-049-11	METAL GLAZE	1K	5%		1/10W	SW912	1-762-196-21	SWITCH, TACT (TIMER)						
R942	1-249-435-11	CARBON	33K	5%		1/4W	SW913	1-762-196-21	SWITCH, TACT (+ (TIMER))						
R943	1-249-409-11	CARBON	220	5%		1/4W	SW914	1-762-196-21	SWITCH, TACT (- (TIMER))						
R944	1-249-409-11	CARBON	220	5%		1/4W	SW915	1-762-196-21	SWITCH, TACT (OPEN/CLOSE (▲))						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
SW916	1-762-196-21	SWITCH, TACT (■ (CD))		C122	1-126-964-11	ELECT 10uF 20%	50V
SW917	1-762-196-21	SWITCH, TACT (PRESET +/- ▶▶▶▶▶)		C127	1-162-291-31	CERAMIC 560PF 10%	50V
SW918	1-762-196-21	SWITCH, TACT (EON (RDS))		C128	1-162-291-31	CERAMIC 560PF 10%	50V
SW919	1-762-196-21	SWITCH, TACT (DISPLAY)		C129	1-126-967-11	ELECT 47uF 20%	16V
SW920	1-762-196-21	SWITCH, TACT (PLAY MODE)		C130	1-126-967-11	ELECT 47uF 20%	16V
SW921	1-762-196-21	SWITCH, TACT (REPEAT)		C133	1-126-923-11	ELECT 220uF 20%	10V
SW922	1-762-196-21	SWITCH, TACT (SET (CLOCK SET))		C134	1-126-923-11	ELECT 220uF 20%	10V
		< VIBRATOR >		C135	1-164-054-11	CERAMIC 22PF 5%	50V
X901	1-767-811-11	VIBRATOR, CRYSTAL (32.768kHz)		C136	1-164-054-11	CERAMIC 22PF 5%	50V
X902	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)		C137	1-162-306-11	CERAMIC 0.01uF 20%	16V
		< DIODE >		C138	1-162-306-11	CERAMIC 0.01uF 20%	16V
ZD901	8-719-981-95	DIODE MTZJ-2.7B		C139	1-126-923-11	ELECT 220uF 20%	10V
ZD902	8-719-921-43	DIODE MTZJ-5.1B		C140	1-126-963-11	ELECT 4.7uF 20%	50V
*****				C141	1-136-163-00	FILM 0.068uF 5%	50V
*****				C142	1-136-163-00	FILM 0.068uF 5%	50V
*	A-4407-346-A	HEADPHONE BOARD, COMPLETE		C143	1-136-163-00	FILM 0.068uF 5%	50V
		*****		C144	1-136-163-00	FILM 0.068uF 5%	50V
		< JACK >		C145	1-164-096-11	CERAMIC 0.01uF	50V
PHONE101	1-774-933-11	JACK (LARGE TYPE) (PHONES)		C146	1-164-096-11	CERAMIC 0.01uF	50V
		< RESISTOR >		C147	1-164-096-11	CERAMIC 0.01uF	50V
△ R195	1-216-431-11	METAL OXIDE 560 5% 1W F		C148	1-164-096-11	CERAMIC 0.01uF	50V
△ R196	1-216-431-11	METAL OXIDE 560 5% 1W F		C149	1-164-096-11	CERAMIC 0.01uF	50V
*****				C150	1-164-096-11	CERAMIC 0.01uF	50V
*****				C151	1-164-096-11	CERAMIC 0.01uF	50V
*	A-4407-343-A	MAIN BOARD, COMPLETE		C152	1-164-096-11	CERAMIC 0.01uF	50V
		*****		C153	1-126-969-11	ELECT 220uF 20%	50V
		< COIL >		C154	1-126-969-11	ELECT 220uF 20%	50V
BD101	1-414-829-11	INDUCTOR 0uH		C155	1-163-235-11	CERAMIC CHIP 22PF 5%	50V
BD102	1-414-829-11	INDUCTOR 0uH		C156	1-163-235-11	CERAMIC CHIP 22PF 5%	50V
BD103	1-414-829-11	INDUCTOR 0uH		C160	1-126-960-11	ELECT 1uF 20%	50V
BD104	1-414-829-11	INDUCTOR 0uH		C161	1-119-946-11	ELECT 6800uF	50V
BD105	1-414-829-11	INDUCTOR 0uH		C162	1-119-946-11	ELECT 6800uF	50V
		< CAPACITOR >		△ C163	1-102-050-00	CERAMIC 0.01uF	500V
C101	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		△ C164	1-102-050-00	CERAMIC 0.01uF	500V
C102	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C165	1-161-063-00	CERAMIC 0.1uF 10%	50V
C103	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C166	1-126-951-11	ELECT 470uF 20%	35V
C104	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C167	1-161-063-00	CERAMIC 0.1uF 10%	50V
C105	1-136-163-00	FILM 0.068uF 5% 50V		C168	1-126-967-11	ELECT 47uF 20%	16V
C106	1-136-163-00	FILM 0.068uF 5% 50V		C169	1-126-967-11	ELECT 47uF 20%	50V
C107	1-163-263-11	CERAMIC CHIP 330PF 5% 50V		C170	1-126-933-11	ELECT 100uF 20%	16V
C108	1-163-263-11	CERAMIC CHIP 330PF 5% 50V		C171	1-126-968-11	ELECT 100uF 20%	50V
C111	1-164-232-11	CERAMIC CHIP 0.01uF 50V		C172	1-104-668-11	ELECT 33uF 20%	35V
C112	1-164-232-11	CERAMIC CHIP 0.01uF 50V		C173	1-126-941-11	ELECT 470uF 20%	50V
C113	1-163-259-11	CERAMIC CHIP 220PF 5% 50V		C174	1-126-964-11	ELECT 10uF 20%	25V
C114	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C175	1-126-933-11	ELECT 100uF 20%	10V
C115	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C176	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C119	1-126-960-11	ELECT 1uF 20% 50V		C177	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C121	1-126-964-11	ELECT 10uF 20% 50V		C185	1-162-306-11	CERAMIC 0.01uF 20%	16V
				C186	1-162-306-11	CERAMIC 0.01uF 20%	16V
				C193	1-162-211-31	CERAMIC 33PF 5%	50V
				C194	1-162-211-31	CERAMIC 33PF 5%	50V
				C211	1-163-243-11	CERAMIC CHIP 47PF 5%	50V
				C212	1-163-243-11	CERAMIC CHIP 47PF 5%	50V

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

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C701	1-126-967-11	ELECT	47uF	20%	16V	C755	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C702	1-162-306-11	CERAMIC	0.01uF	20%	16V	C756	1-162-294-31	CERAMIC	0.001uF	10%	50V
C703	1-126-967-11	ELECT	47uF	20%	16V	C757	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C704	1-126-967-11	ELECT	47uF	20%	16V	C758	1-136-161-00	FILM	0.047uF	5%	50V
C705	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C759	1-126-967-11	ELECT	47uF	20%	16V
C706	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C760	1-126-960-11	ELECT	1uF	20%	50V
C707	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C761	1-126-959-11	ELECT	0.47uF	20%	50V
C708	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C762	1-126-960-11	ELECT	1uF	20%	50V
C709	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C763	1-126-960-11	ELECT	1uF	20%	50V
C710	1-162-306-11	CERAMIC	0.01uF	20%	16V	C764	1-126-967-11	ELECT	47uF	20%	16V
C712	1-126-959-11	ELECT	0.47uF	20%	50V	C765	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C713	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C766	1-126-967-11	ELECT	47uF	20%	16V
C714	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C767	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C715	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C768	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C716	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C769	1-130-475-00	MYLAR	0.0022uF	5%	50V
C717	1-126-967-11	ELECT	47uF	20%	16V	C770	1-130-475-00	MYLAR	0.0022uF	5%	50V
C718	1-162-306-11	CERAMIC	0.01uF	20%	16V	C771	1-126-960-11	ELECT	1uF	20%	50V
C719	1-126-967-11	ELECT	47uF	20%	16V	C772	1-126-933-11	ELECT	100uF	20%	16V
C720	1-162-306-11	CERAMIC	0.01uF	20%	16V	C773	1-126-964-11	ELECT	10uF	20%	50V
C721	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C774	1-126-964-11	ELECT	10uF	20%	50V
C722	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C775	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C723	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C776	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C724	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	C777	1-126-963-11	ELECT	4.7uF	20%	50V
C725	1-126-960-11	ELECT	1uF	20%	50V	C778	1-126-963-11	ELECT	4.7uF	20%	50V
C726	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C779	1-130-471-00	MYLAR	0.001uF	5%	50V
C727	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C780	1-130-471-00	MYLAR	0.001uF	5%	50V
C728	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	C781	1-126-967-11	ELECT	47uF	20%	16V
C729	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C782	1-136-161-00	FILM	0.047uF	5%	50V
C730	1-110-671-31	CERAMIC	47000PF		50V	C783	1-126-956-91	ELECT	0.1uF	20%	50V
C731	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	C785	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C732	1-126-960-11	ELECT	1uF	20%	50V	C786	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C733	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	C787	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C734	1-126-960-11	ELECT	1uF	20%	50V	C789	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C735	1-126-967-11	ELECT	47uF	20%	16V	C791	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C736	1-162-306-11	CERAMIC	0.01uF	20%	16V	C801	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C737	1-162-294-31	CERAMIC	0.001uF	10%	50V	C802	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C738	1-126-960-11	ELECT	1uF	20%	50V	C803	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C739	1-126-962-11	ELECT	3.3uF	20%	50V	C804	1-126-961-11	ELECT	2.2uF	20%	50V
C740	1-130-486-00	MYLAR	0.018uF	10%	50V	C805	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C741	1-162-211-31	CERAMIC	33PF	5%	50V	C806	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C742	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C807	1-126-964-11	ELECT	10uF	20%	50V
C743	1-126-964-11	ELECT	10uF	20%	50V	C808	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C744	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C809	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C745	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C810	1-126-967-11	ELECT	47uF	20%	16V
C746	1-162-306-11	CERAMIC	0.01uF	20%	16V	< FILTER >					
C747	1-162-306-11	CERAMIC	0.01uF	20%	16V	CF701	1-567-389-11	FILTER, CERAMIC			
C748	1-126-967-11	ELECT	47uF	20%	16V	CF702	1-567-389-11	FILTER, CERAMIC			
C749	1-164-232-11	CERAMIC CHIP	0.01uF		50V	CF703	1-567-389-11	FILTER, CERAMIC			
C750	1-164-232-11	CERAMIC CHIP	0.01uF		50V	< CONNECTOR >					
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V	CN101	1-695-343-21	PIN, CONNECTOR (PC BOARD) 20P			
C752	1-162-306-11	CERAMIC	0.01uF	20%	16V	CN102	1-568-269-11	SOCKET, CONNECTOR 3P			
C753	1-164-232-11	CERAMIC CHIP	0.01uF		50V						
C754	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* CN103	1-568-276-11	SOCKET, CONNECTOR 10P		J232	1-216-296-00	CONDUCTOR, CHIP (3216)	
CN104	1-784-442-11	CONNECTOR, 2.0MM PITCH 14P		J233	1-216-296-00	CONDUCTOR, CHIP (3216)	
CN105	1-784-441-11	CONNECTOR, 2.0MM PITCH 5P		J234	1-216-296-00	CONDUCTOR, CHIP (3216)	
CN106	1-784-440-11	CONNECTOR, 2.0MM PITCH 4P		J235	1-216-296-00	CONDUCTOR, CHIP (3216)	
		< DIODE >		J236	1-216-296-00	CONDUCTOR, CHIP (3216)	
D101	8-719-927-70	DIODE HZS36JB3T2		J237	1-216-296-00	CONDUCTOR, CHIP (3216)	
D102	8-719-927-70	DIODE HZS36JB3T2		J238	1-216-296-00	CONDUCTOR, CHIP (3216)	
D107	8-719-927-70	DIODE HZS36JB3T2		J239	1-216-296-00	CONDUCTOR, CHIP (3216)	
D113	8-719-815-85	DIODE 1S1585		J760	1-216-296-00	CONDUCTOR, CHIP (3216)	
D114	8-719-815-85	DIODE 1S1585		J761	1-216-296-00	CONDUCTOR, CHIP (3216)	
D115	8-719-815-85	DIODE 1S1585		J762	1-216-296-00	CONDUCTOR, CHIP (3216)	
D117	8-719-927-70	DIODE HZS36JB3T2		J763	1-216-296-00	CONDUCTOR, CHIP (3216)	
D118	8-719-815-85	DIODE 1S1585		J764	1-216-296-00	CONDUCTOR, CHIP (3216)	
D119	8-719-815-85	DIODE 1S1585				< JACK >	
D120	8-719-927-70	DIODE HZS36JB3T2		JACK101	1-784-439-11	JACK, PIN 4P (REC OUT, LINE IN)	
D121	8-719-927-70	DIODE HZS36JB3T2		JACK701	1-537-897-11	TERMINAL BOARD, PUSH 2P (ANTENNA)	
D132	8-719-200-02	DIODE 10E2				< COIL >	
D134	8-719-200-02	DIODE 10E2					
D202	8-719-500-33	DIODE D3SB20		* L101	1-428-203-11	COIL, AIR-CORE 0.15uH	
D701	8-719-815-85	DIODE 1S1585		* L102	1-428-203-11	COIL, AIR-CORE 0.15uH	
D702	8-719-815-85	DIODE 1S1585		L701	1-410-509-11	INDUCTOR 10uH	
D703	8-719-815-85	DIODE 1S1585		L702	1-404-845-11	COIL, DISCRI (PRIMARY)	
D704	8-719-815-85	DIODE 1S1585		L703	1-404-846-11	COIL, DISCRI (SECONDARY)	
D705	8-719-200-02	DIODE 10E2					
D706	8-719-200-02	DIODE 10E2		L704	1-234-035-11	ENCAPSULATED COMPONENT (MW.RF)	
		< IC >		L705	1-414-142-11	INDUCTOR 1uH	
IC101	8-759-247-11	IC CAT51C464A-70RS		L706	1-410-509-11	INDUCTOR 10uH	
IC102	8-759-982-15	IC RC7815FA		L707	1-404-713-	TRANSFORMER, IF	
IC701	8-759-812-35	IC LA1235		L708	1-234-034-11	ENCAPSULATED COMPONENT (FILTER)	
IC702	8-759-812-45	IC LA1245					
IC703	8-759-801-80	IC LA3401		L709	1-235-164-00	FILTER, LOW PASS	
IC704	8-759-705-58	IC NJM4558D-D		L710	1-235-164-00	FILTER, LOW PASS	
IC801	8-759-065-98	IC SAA6579T		L711	1-410-509-11	INDUCTOR 10uH	
		< IC LINK >		L712	1-410-509-11	INDUCTOR 10uH	
△ IC103	1-532-685-00	LINK, IC (ICP-N20) 0.8A		L713	1-414-142-11	INDUCTOR 1uH	
		< JUMPER RESISTOR >		L714	1-414-142-11	INDUCTOR 1uH	
J219	1-216-296-00	CONDUCTOR, CHIP (3216)				< FRONT END >	
J220	1-216-296-00	CONDUCTOR, CHIP (3216)		PACK701	1-693-405-11	FRONT END (FM)	
J221	1-216-296-00	CONDUCTOR, CHIP (3216)				< TRANSISTOR >	
J222	1-216-296-00	CONDUCTOR, CHIP (3216)		Q101	8-729-231-55	TRANSISTOR 2SC2878-AB	
J223	1-216-296-00	CONDUCTOR, CHIP (3216)		Q102	8-729-231-55	TRANSISTOR 2SC2878-AB	
J224	1-216-296-00	CONDUCTOR, CHIP (3216)		Q103	8-729-904-34	TRANSISTOR DTA114TS	
J225	1-216-296-00	CONDUCTOR, CHIP (3216)		Q105	8-729-043-86	TRANSISTOR 2SA1928G	
J226	1-216-296-00	CONDUCTOR, CHIP (3216)		Q106	8-729-043-86	TRANSISTOR 2SA1928G	
J227	1-216-296-00	CONDUCTOR, CHIP (3216)					
J228	1-216-296-00	CONDUCTOR, CHIP (3216)		Q107	8-729-199-22	TRANSISTOR 2SA992-FA	
J229	1-216-296-00	CONDUCTOR, CHIP (3216)		Q108	8-729-199-22	TRANSISTOR 2SA992-FA	
J230	1-216-296-00	CONDUCTOR, CHIP (3216)		Q109	8-729-184-52	TRANSISTOR 2SC1845-FA	
J231	1-216-296-00	CONDUCTOR, CHIP (3216)		Q110	8-729-184-52	TRANSISTOR 2SC1845-FA	
				Q111	8-729-224-62	TRANSISTOR 2SK246-GR	
				Q112	8-729-224-62	TRANSISTOR 2SK246-GR	
				Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE	

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MAIN

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
Q114	8-729-119-78	TRANSISTOR	2SC2785-HFE				R122	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
Q115	8-729-199-22	TRANSISTOR	2SA992-FA				R123	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
Q116	8-729-199-22	TRANSISTOR	2SA992-FA				R124	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
Q117	8-729-188-23	TRANSISTOR	2SD882				R125	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
Q118	8-729-188-23	TRANSISTOR	2SD882				R126	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
Q119	8-729-184-52	TRANSISTOR	2SC1845-FA				R127	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
Q120	8-729-184-52	TRANSISTOR	2SC1845-FA				R129	1-249-427-11	CARBON	6.8K	5%	1/4W	
Q121	8-729-020-27	TRANSISTOR	2SD2390				△ R130	1-215-870-11	METAL OXIDE	1.5K	5%	1W	F
Q122	8-729-020-27	TRANSISTOR	2SD2390				R131	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
Q123	8-729-020-23	TRANSISTOR	2SB1560				R132	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
Q124	8-729-020-23	TRANSISTOR	2SB1560				R133	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
Q125	8-729-184-52	TRANSISTOR	2SC1845-FA				R134	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
Q126	8-729-184-52	TRANSISTOR	2SC1845-FA				R135	1-249-417-11	CARBON	1K	5%	1/4W	
Q127	8-729-119-78	TRANSISTOR	2SC2785-HFE				R136	1-249-417-11	CARBON	1K	5%	1/4W	
Q128	8-729-119-78	TRANSISTOR	2SC2785-HFE				R137	1-216-035-00	METAL CHIP	270	5%	1/10W	
Q129	8-729-119-76	TRANSISTOR	2SA1175-HFE				R138	1-216-035-00	METAL CHIP	270	5%	1/10W	
Q130	8-729-029-66	TRANSISTOR	DTC114ESA				R139	1-247-828-11	CARBON	750	5%	1/4W	
Q131	8-729-029-66	TRANSISTOR	DTC114ESA				R140	1-247-828-11	CARBON	750	5%	1/4W	
Q132	8-729-029-92	TRANSISTOR	DTC143ES				R141	1-249-421-11	CARBON	2.2K	5%	1/4W	
Q134	8-729-803-76	TRANSISTOR	2SA1371				R142	1-249-421-11	CARBON	2.2K	5%	1/4W	
Q135	8-729-119-78	TRANSISTOR	2SC2785-HFE				R143	1-249-433-11	CARBON	22K	5%	1/4W	
Q701	8-729-216-13	TRANSISTOR	2SK161-GR				R144	1-249-433-11	CARBON	22K	5%	1/4W	
Q702	8-729-043-87	TRANSISTOR	2SC31930				R145	1-249-435-11	CARBON	33K	5%	1/4W	
Q703	8-729-043-87	TRANSISTOR	2SC31930				R146	1-249-435-11	CARBON	33K	5%	1/4W	
Q704	8-729-043-87	TRANSISTOR	2SC31930				R147	1-249-429-11	CARBON	10K	5%	1/4W	
Q705	8-729-043-87	TRANSISTOR	2SC31930				R148	1-249-429-11	CARBON	10K	5%	1/4W	
Q706	8-729-043-87	TRANSISTOR	2SC31930				R149	1-249-409-11	CARBON	220	5%	1/4W	
Q707	8-729-119-76	TRANSISTOR	2SA1175-HFE				R150	1-249-409-11	CARBON	220	5%	1/4W	
Q708	8-729-119-78	TRANSISTOR	2SC2785-HFE				R153	1-249-431-11	CARBON	15K	5%	1/4W	
Q709	8-729-030-02	TRANSISTOR	DTC144ESA				R154	1-249-431-11	CARBON	15K	5%	1/4W	
Q710	8-729-216-13	TRANSISTOR	2SK161-GR				R155	1-247-692-11	CARBON	22	5%	1/4W	
Q711	8-729-119-78	TRANSISTOR	2SC2785-HFE				R156	1-247-692-11	CARBON	22	5%	1/4W	
Q712	8-729-043-87	TRANSISTOR	2SC31930				R157	1-249-415-11	CARBON	680	5%	1/4W	
		< RESISTOR >					R158	1-249-415-11	CARBON	680	5%	1/4W	
R101	1-249-411-11	CARBON	330	5%	1/4W		R159	1-249-409-11	CARBON	220	5%	1/4W	
R102	1-249-411-11	CARBON	330	5%	1/4W		R160	1-249-409-11	CARBON	220	5%	1/4W	
R103	1-216-119-00	METAL CHIP	820K	5%	1/10W		R161	1-249-899-11	CARBON	100	5%	1/4W	
R104	1-216-119-00	METAL CHIP	820K	5%	1/10W		R162	1-249-899-11	CARBON	100	5%	1/4W	
R105	1-249-411-11	CARBON	330	5%	1/4W		R163	1-247-696-11	CARBON	47	5%	1/4W	
R106	1-249-411-11	CARBON	330	5%	1/4W		R164	1-247-696-11	CARBON	47	5%	1/4W	
R107	1-216-119-00	METAL CHIP	820K	5%	1/10W		R165	1-247-696-11	CARBON	47	5%	1/4W	
R108	1-247-901-11	CARBON	820K	5%	1/4W		R166	1-247-696-11	CARBON	47	5%	1/4W	
R109	1-249-421-11	CARBON	2.2K	5%	1/4W		R167	1-249-416-11	CARBON	820	5%	1/4W	
R110	1-216-057-00	METAL CHIP	2.2K	5%	1/10W		R168	1-249-416-11	CARBON	820	5%	1/4W	
R111	1-216-073-00	METAL CHIP	10K	5%	1/10W		R169	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R112	1-216-073-00	METAL CHIP	10K	5%	1/10W		R170	1-249-432-11	CARBON	18K	5%	1/4W	
R113	1-216-073-00	METAL CHIP	10K	5%	1/10W		R171	1-216-095-00	METAL CHIP	82K	5%	1/10W	
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W		R172	1-249-440-11	CARBON	82K	5%	1/4W	
R115	1-216-121-00	METAL GLAZE	1M	5%	1/10W		△ R173	1-219-129-21	METAL OXIDE	0.22X2		5W	F
R116	1-216-121-00	METAL GLAZE	1M	5%	1/10W		△ R174	1-219-129-21	METAL OXIDE	0.22X2		5W	F
R117	1-249-425-11	CARBON	4.7K	5%	1/4W		R175	1-247-696-11	CARBON	47	5%	1/4W	
R121	1-249-421-11	CARBON	2.2K	5%	1/4W		R176	1-247-696-11	CARBON	47	5%	1/4W	
							R177	1-249-425-11	CARBON	4.7K	5%	1/4W	

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Ref. No.	Part No.	Description			Remark		Ref. No.	Part No.	Description			Remark
R178	1-249-425-11	CARBON	4.7K	5%	1/4W		R732	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R179	1-249-419-11	CARBON	1.5K	5%	1/4W		R733	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R180	1-249-419-11	CARBON	1.5K	5%	1/4W		R734	1-247-688-11	CARBON	10	5%	1/4W
R181	1-249-413-11	CARBON	470	5%	1/4W		R735	1-249-422-11	CARBON	2.7K	5%	1/4W
R182	1-249-413-11	CARBON	470	5%	1/4W		R736	1-249-441-11	CARBON	100K	5%	1/4W
R183	1-249-437-11	CARBON	47K	5%	1/4W		R737	1-249-417-11	CARBON	1K	5%	1/4W
R184	1-249-437-11	CARBON	47K	5%	1/4W		R738	1-247-883-00	CARBON	150K	5%	1/4W
R185	1-247-850-11	CARBON	6.2K	5%	1/4W		R739	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R186	1-249-429-11	CARBON	10K	5%	1/4W		R740	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R187	1-247-843-11	CARBON	3.3K	5%	1/4W		R741	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R188	1-216-083-00	METAL CHIP	27K	5%	1/10W		R742	1-216-081-00	METAL CHIP	22K	5%	1/10W
R189	1-249-431-11	CARBON	15K	5%	1/4W		R743	1-247-702-11	CARBON	150	5%	1/4W
R190	1-247-688-11	CARBON	10	5%	1/4W		R744	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R191	1-249-393-11	CARBON	10	5%	1/4W		R745	1-216-073-00	METAL CHIP	10K	5%	1/10W
R192	1-249-393-11	CARBON	10	5%	1/4W		R746	1-247-807-11	CARBON	100	5%	1/4W
△ R193	1-215-857-11	METAL OXIDE	10	5%	1W	F	R747	1-247-807-11	CARBON	100	5%	1/4W
△ R194	1-215-857-11	METAL OXIDE	10	5%	1W	F	R748	1-249-429-11	CARBON	10K	5%	1/4W
R197	1-216-057-00	METAL CHIP	2.2K	5%	1/10W		R749	1-249-429-11	CARBON	10K	5%	1/4W
R198	1-249-427-11	CARBON	6.8K	5%	1/4W		R750	1-249-430-11	CARBON	12K	5%	1/4W
R199	1-216-073-00	METAL CHIP	10K	5%	1/10W		R751	1-249-441-11	CARBON	100K	5%	1/4W
R209	1-216-077-00	METAL CHIP	15K	5%	1/10W		R752	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R210	1-249-393-11	CARBON	10	5%	1/4W		R753	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R211	1-247-688-11	CARBON	10	5%	1/4W		R754	1-247-704-11	CARBON	220	5%	1/4W
R701	1-249-437-11	CARBON	47K	5%	1/4W		R755	1-249-413-11	CARBON	470	5%	1/4W
R702	1-247-688-11	CARBON	10	5%	1/4W		R756	1-249-422-11	CARBON	2.7K	5%	1/4W
△ R703	1-215-888-00	METAL OXIDE	220	5%	2W	F	R757	1-249-441-11	CARBON	100K	5%	1/4W
R704	1-249-429-11	CARBON	10K	5%	1/4W		R758	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R705	1-216-037-00	METAL CHIP	330	5%	1/10W		R759	1-247-688-11	CARBON	10	5%	1/4W
R706	1-249-408-11	CARBON	180	5%	1/4W		R760	1-216-101-00	METAL CHIP	150K	5%	1/10W
R707	1-247-688-11	CARBON	10	5%	1/4W		R761	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R708	1-216-029-00	METAL CHIP	150	5%	1/10W		R762	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R709	1-249-411-11	CARBON	330	5%	1/4W		R763	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R710	1-216-077-00	METAL CHIP	15K	5%	1/10W		R764	1-216-077-00	METAL CHIP	15K	5%	1/10W
R711	1-249-411-11	CARBON	330	5%	1/4W		R765	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R712	1-216-037-00	METAL CHIP	330	5%	1/10W		R766	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R713	1-216-081-00	METAL CHIP	22K	5%	1/10W		R767	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R714	1-247-688-11	CARBON	10	5%	1/4W		R768	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R715	1-249-411-11	CARBON	330	5%	1/4W		R769	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R716	1-216-077-00	METAL CHIP	15K	5%	1/10W		R770	1-247-696-11	CARBON	47	5%	1/4W
R717	1-249-411-11	CARBON	330	5%	1/4W		R771	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R718	1-216-037-00	METAL CHIP	330	5%	1/10W		R772	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R719	1-216-081-00	METAL CHIP	22K	5%	1/10W		R773	1-216-101-00	METAL CHIP	150K	5%	1/10W
R720	1-247-688-11	CARBON	10	5%	1/4W		R774	1-216-101-00	METAL CHIP	150K	5%	1/10W
R722	1-216-079-00	METAL CHIP	18K	5%	1/10W		R775	1-249-421-11	CARBON	2.2K	5%	1/4W
R723	1-249-417-11	CARBON	1K	5%	1/4W		R776	1-249-421-11	CARBON	2.2K	5%	1/4W
R724	1-216-093-00	METAL CHIP	68K	5%	1/10W		R777	1-249-437-11	CARBON	47K	5%	1/4W
R725	1-249-899-11	CARBON	100	5%	1/4W		R778	1-249-437-11	CARBON	47K	5%	1/4W
R726	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W		R779	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R727	1-249-432-11	CARBON	18K	5%	1/4W		R780	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R728	1-216-057-00	METAL CHIP	2.2K	5%	1/10W		R781	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R729	1-216-059-00	METAL CHIP	2.7K	5%	1/10W		R782	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R730	1-216-037-00	METAL CHIP	330	5%	1/10W		R783	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R731	1-249-439-11	CARBON	68K	5%	1/4W		R784	1-216-067-00	METAL CHIP	5.6K	5%	1/10W

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MAIN	MOTOR-1	MOTOR-2	STONE
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Ref. No.	Part No.	Description			Remark
R785	1-249-413-11	CARBON	470	5%	1/4W
R786	1-216-041-00	METAL CHIP	470	5%	1/10W
R789	1-247-696-11	CARBON	47	5%	1/4W
R790	1-249-417-11	CARBON	1K	5%	1/4W
R791	1-249-421-11	CARBON	2.2K	5%	1/4W
R792	1-249-425-11	CARBON	4.7K	5%	1/4W
R801	1-216-025-00	METAL GLAZE	100	5%	1/10W
R803	1-247-807-11	CARBON	100	5%	1/4W
R804	1-247-807-11	CARBON	100	5%	1/4W
R805	1-249-911-11	CARBON	330	5%	1/4W
< RELAY >					
RY101	1-755-126-11	RELAY			
RY102	1-515-720-11	RELAY			
RY103	1-515-720-11	RELAY			
< SPEAKER >					
SP101	1-694-385-11	TERMINAL 8P (SPEAKERS)			
< SWITCH >					
SW101	1-771-307-11	SWITCH, PUSH (3 KEY) (SPEAKER A, SPEAKER B, LOUDNESS)			
< CABLE >					
TP701	1-556-690-00	CABLE ASSY, SHIELD			
< VARIABLE RESISTOR >					
VR101	1-230-504-11	RES, ADJ, METAL	220		
VR102	1-230-504-11	RES, ADJ, METAL	220		
VR701	1-230-523-11	RES, ADJ, METAL	10K		
VR702	1-230-523-11	RES, ADJ, METAL	10K		
VR703	1-230-527-11	RES, ADJ, METAL	100K		
< VIBRATOR >					
X701	1-527-981-00	FILTER, CERAMIC (450kHz)			
X702	1-567-250-11	OSCILLATOR, CERAMIC (456kHz)			
X801	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz)			
< DIODE >					
ZD101	8-719-982-20	DIODE	MTZJ-30B		
ZD102	8-719-921-54	DIODE	MTZJ-6.2B		
ZD103	8-719-921-43	DIODE	MTZJ-5.1B		
ZD104	8-719-921-92	DIODE	MTZJ-15B		
ZD105	8-719-921-43	DIODE	MTZJ-5.1B		
ZD106	8-719-921-54	DIODE	MTZJ-6.2B		
ZD107	8-719-921-54	DIODE	MTZJ-6.2B		
ZD108	8-719-109-72	DIODE	RD3.9ES-B2		
ZD109	8-719-921-67	DIODE	MTZJ-8.2B		
ZD701	8-719-921-43	DIODE	MTZJ-5.1B		
ZD702	8-719-921-43	DIODE	MTZJ-5.1B		
ZD801	8-719-921-43	DIODE	MTZJ-5.1B		

Ref. No.	Part No.	Description	Remark			
	1-636-789-13	MOTOR-1 BOARD *****				
		< CONNECTOR >				
CN3	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P				
		< SWITCH >				
SW1	1-572-085-11	SWITCH, LEAF (LIMIT)	*****			
		MOTOR-2 BOARD (not supplied) *****				
		< SWITCH >				
SW2	1-571-300-21	LEAF, SWITCH (OPEN/CLOSE)	*****			
*	A-4407-350-A	TONE BOARD, COMPLETE *****				
		< CAPACITOR >				
C301	1-126-163-11	ELECT	4.7uF	20%	50V	
C302	1-126-163-11	ELECT	4.7uF	20%	50V	
C303	1-130-485-00	MYLAR	0.015uF	5%	50V	
C304	1-130-485-00	MYLAR	0.015uF	5%	50V	
C305	1-136-163-00	FILM	0.068uF	5%	50V	
C306	1-136-163-00	FILM	0.068uF	5%	50V	
C307	1-130-482-00	MYLAR	0.0082uF	5%	50V	
C308	1-130-482-00	MYLAR	0.0082uF	5%	50V	
C309	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C310	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C311	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C312	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C313	1-136-159-00	FILM	0.033uF	5%	50V	
C314	1-136-159-00	FILM	0.033uF	5%	50V	
		< JUMPER RESISTOR >				
J302	1-216-296-00	CONDUCTOR, CHIP (3216)				
J303	1-216-296-00	CONDUCTOR, CHIP (3216)				
J304	1-216-296-00	CONDUCTOR, CHIP (3216)				
J305	1-216-296-00	CONDUCTOR, CHIP (3216)				
J306	1-216-296-00	CONDUCTOR, CHIP (3216)				
		< RESISTOR >				
R301	1-216-074-00	METAL CHIP	11K	5%	1/10W	
R302	1-216-074-00	METAL CHIP	11K	5%	1/10W	
R303	1-216-058-00	METAL GLAZE	2.4K	5%	1/10W	
R304	1-216-058-00	METAL GLAZE	2.4K	5%	1/10W	
R305	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R306	1-216-049-11	METAL GLAZE	1K	5%	1/10W	

STONE
TRANS-1
TRANS-2
VOLUME

Ref. No.	Part No.	Description	Remark		
R307	1-216-043-00	METAL GLAZE	560	5%	1/10W
R308	1-216-043-00	METAL GLAZE	560	5%	1/10W
< VARIABLE RESISTOR >					
VR301	1-225-595-11	RES, VAR, CARBON	200K (BAL)		
VR302	1-225-594-11	RES, VAR, CARBON	100K (TRE)		
VR303	1-225-594-11	RES, VAR, CARBON	100K (BASS)		

*	A-4407-344-A	TRANS-1 BOARD, COMPLETE			

	1-533-233-11	HOLDER, FUSE			
< CONNECTOR >					
* CN107	1-568-226-11	PIN, CONNECTOR 2P			
< FUSE >					
△ F101	1-532-388-51	FUSE, TIME LAG (2A/250V)			

*	A-4407-345-A	TRANS-2 BOARD, COMPLETE			

< DIODE >					
D122	8-719-200-02	DIODE	10E2		
D123	8-719-200-02	DIODE	10E2		
D124	8-719-200-02	DIODE	10E2		
D125	8-719-200-02	DIODE	10E2		
D126	8-719-200-02	DIODE	10E2		
D127	8-719-200-02	DIODE	10E2		
D128	8-719-200-02	DIODE	10E2		
D129	8-719-200-02	DIODE	10E2		
< CONNECTOR >					
JP101	1-784-443-11	CONNECTOR, 1.5MM PITCH 13P			
< RESISTOR >					
R201	1-249-447-11	CARBON	1	5%	1/4W
R202	1-249-447-11	CARBON	1	5%	1/4W
R203	1-249-447-11	CARBON	1	5%	1/4W
R204	1-249-447-11	CARBON	1	5%	1/4W
R205	1-249-447-11	CARBON	1	5%	1/4W
R206	1-249-447-11	CARBON	1	5%	1/4W
R207	1-249-447-11	CARBON	1	5%	1/4W
R208	1-249-447-11	CARBON	1	5%	1/4W

*	A-4407-349-A	VOLUME BOARD, COMPLETE			

< CAPACITOR >					
C351	1-126-933-11	ELECT	100uF	20%	16V
C352	1-126-960-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description	Remark		
C353	1-126-960-11	ELECT	1uF	20%	50V
< CONNECTOR >					
CP104	1-784-446-11	CONNECTOR, 2.0MM PITCH (90)	14P		
< IC >					
IC351	8-759-988-58	IC	BA6209N		
< JUMPER RESISTOR >					
J358	1-216-296-00	CONDUCTOR, CHIP		(3216)	
J359	1-216-296-00	CONDUCTOR, CHIP		(3216)	
< TRANSISTOR >					
Q351	8-729-029-46	TRANSISTOR	DTA143ESA		
< RESISTOR >					
R351	1-249-417-11	CARBON	1K	5%	1/4W
R352	1-247-807-11	CARBON	100	5%	1/4W
R353	1-249-393-11	CARBON	10	5%	1/4W
< VARIABLE RESISTOR >					
VR351	1-225-593-11	RES, VAR, CARBON	100K/100K (VOLUME)		
< DIODE >					
ZD351	8-719-010-34	DIODE	UZ-4.7BSC		
ZD352	8-719-921-43	DIODE	MTZJ-5.1B		

MISCELLANEOUS					

△ 4	1-575-651-11	CORD, POWER			
65	1-782-465-11	WIRE (FLAT TYPE) (16 CORE)			
66	1-769-326-11	WIRE (FLAT TYPE) (20 CORE)			
△ 203	8-848-483-05	OPTICAL PICK-UP KSS-213C/Q-RP			
△ F101	1-532-388-51	FUSE, TIME LAG (2A/250V)			
M1	X-2626-272-1	MOTOR ASSY (SPINDLE)			
M2	X-2625-769-1	MOTOR ASSY, SLED			
M3	X-4949-441-1	MOTOR ASSY, DC (OPEN/CLOSE)			
△ T1	1-431-725-11	TRANSFORMER, POWER			

ACCESSORIES & PACKING MATERIALS					

1-475-593-11	REMOTE COMMANDER (RM-U301)				
1-501-986-11	ANTENNA, ROOP				
3-860-986-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH,PORTUGUESE,ITALIAN)				
3-860-986-21	MANUAL, INSTRUCTION (GERMAN,DUTCH, SWEDISH,DANISH,FINNISH)				

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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
		***** HARDWARE LIST *****	
#1	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	
#4	7-685-881-09	SCREW +BVTT 4X8 (S)	
#5	7-621-775-20	SCREW +B 2.6X5	
#6	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	