

CDX-1200/3600

SERVICE MANUAL

Ver 1.1 2001. 05

US Model
Canadian Model
CDX-1200
E Model
CDX-3600



Photo: CDX-3600

- The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-1150, CDX-3700
CD Drive Mechanism Type	MG-310-153

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US, Canadian model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

18 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1% total harmonic distortion.

Other Specifications

CD player section

System	Compact disc digital audio system
Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit
Laser Diode Properties (US, Canadian model)	
Material	GaAs + GaAlAs
Wavelength	785 – 815 nm (Typ. 800 nm)
Emission Duration	Continuous
Laser output power	Less than 0.5 mW*

* This output is the value measured at a distance of 0.7 mm from the objective lens surface on the Optical Pick-up Block.

Tuner section

FM

Tuning range	
US, Canadian model:	87.5 – 107.9 MHz
E model:	FM tuning interval: 50 kHz/200 kHz switchable 87.5 – 108.0 MHz (at 50 kHz step) 87.5 – 107.9 MHz (at 200 kHz step)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	12 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	0.7% (stereo), 0.5% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

AM

Tuning range	
US, Canadian model:	530 – 1,710 kHz
E model:	AM tuning interval: 9 kHz/10 kHz switchable 531 – 1,602 kHz (at 9 kHz step) 530 – 1,710 kHz (at 10 kHz step)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	45 W × 4 (at 4 ohms)

– Continued on next page –

FM/AM COMPACT DISC PLAYER

9-870-052-12

2001E0400-1

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Sony Corporation

e Vehicle Company

Shinagawa Tec Service Manual Production Group

SONY®

General

Outputs	Audio output Power amplifier control lead Power antenna relay control lead
Tone controls	Bass ± 8 dB at 100 Hz Treble ± 8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. $178 \times 50 \times 178$ mm ($7 \frac{1}{8} \times 2 \times 7 \frac{1}{8}$ in.) (w/h/d)
Mounting dimensions	Approx. $182 \times 53 \times 162$ mm ($7 \frac{1}{4} \times 2 \frac{1}{8} \times 6 \frac{1}{2}$ in.) (w/h/d)
Mass	Approx. 1.2 kg (2 lb. 10 oz.)
Supplied accessories	Parts for installation and connections (1 set)

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.

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.

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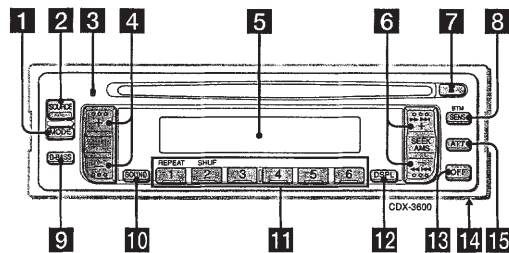
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE $\triangle$ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

This section is extracted from
CDX-3600's instruction manual.

Location of controls



Refer to the pages for details.

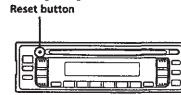
- 1 MODE (band select) button 7, 8
- 2 SOURCE (source select) button 6, 7, 8
- 3 Reset button 5
- 4 $\odot$ $\ominus$ (volume/bass/treble/left-right/ front-rear control) buttons 5, 8
- 5 Display window
- 6 SEEK/AMS (seek/Automatic Music Sensor/manual search) control 6, 7, 8
- 7 Δ (eject) button 6
- 8 SENS/BTM (sensitivity adjust/Best Tuning Memory) button 7, 8
- 9 D-BASS button 9
- 10 SOUND button 5, 8
- 11 During radio reception:
Number buttons 7, 8
During CD playback:
① REPEAT button 6
② SHUF button 6
- 12 DSPL (display mode change/time set) button 5, 6, 8
- 13 OFF button* 6
- 14 Frequency select switch (located on the bottom of the unit)
See "Frequency select switch" in the Installation/Connections manual.
- 15 ATT (attenuate) button 9

***Warning when installing in a car without ACC (accessory) position on the ignition key switch**
Be sure to press **OFF** on the unit for two seconds to turn off the clock display after turning off the engine.
When you press **OFF** momentarily, the clock display does not turn off and this causes battery wear.

Getting Started

Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.
Press the reset button with a pointed object, such as a ballpoint pen.



Notes

- Pressing the reset button will erase the clock setting and some memorised functions.
- When you connect the power supply cord to the unit or reset the unit, wait for about 10 seconds before you insert a disc. If you insert a disc within these 10 seconds, the unit will not be reset, and you will have to press the reset button again.

Setting the clock

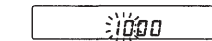
The clock has a 12-hour digital indication.

Example: To set the clock to 10:08

1 Press **DSPL** during operation.



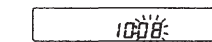
2 Set the hour.



3 Press **SOUND**.



4 Set the minute.



5 Press **DSPL**.



Note

If the car has no accessory position on the ignition key switch, the clock cannot be set unless the power is turned on. Set the clock after you have turned on the radio, or started CD playback.

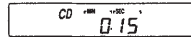
CD Player

Listening to a CD

Insert a CD.
Playback starts automatically.
Label side up



If a CD is already inserted, press **SOURCE** repeatedly until "CD" appears to start playback.



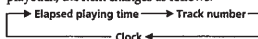
Elapsed playing time

Note
To play back an 8 cm CD, use the optional Sony compact disc single adapter (CSA-8).

To	Press
Stop playback	Δ or OFF
Eject the CD	Δ

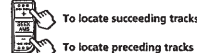
Changing the display item

Each time you press **DSPL** during CD playback, the item changes as follows:



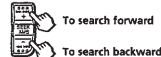
Locating a specific track — Automatic Music Sensor (AMS)

During playback, press either side of **SEEK/AMS** for each track you want to skip.



Locating a specific point in a track — Manual Search

During playback, press and hold either side of **SEEK/AMS** for about two seconds. Release when you have found the desired point.



Note

If "LLLL" or "RRRR" appears in the display, you have reached the beginning or the end of the disc and you cannot go any further.

Playing a CD in various modes

Playing tracks repeatedly — Repeat Play

Press **REPEAT** during playback.
"REPEAT" appears in the display.

When the current track is over, it will play again from the beginning.

To return to normal mode, press again.

Playing tracks in random order — Shuffle Play

Press **SHUF** during playback.
"SHUF" appears in the display.

To return to normal mode, press again.

Radio

Memorising stations automatically

— Best Tuning Memory (BTM)

This unit selects the stations with the strongest signals and memorises them in the order of their frequencies. You can store up to 6 stations on each band (FM I, FM II, FM III, and AM).

Caution

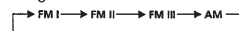
When tuning in stations while driving, use Best Tuning Memory to prevent accidents.

1 Press **SOURCE** repeatedly to select the tuner.

Each time you press **SOURCE**, the mode changes as follows:
CD $\leftrightarrow$ TUNER

2 Press **MODE** repeatedly to select the band.

Each time you press **MODE**, the band changes as follows:



3 Press **SENS/BTM** for two seconds.
The unit stores stations in the order of their frequencies on the number buttons.
A beep sounds when the setting is stored.

Notes

- The unit does not store stations with weak signals. If only a few stations can be received, some number buttons will retain their former setting.
- When a number is indicated in the display, the unit starts storing stations from the one currently displayed.
- If a CD is not in the unit, only the tuner band appears even if you press **SOURCE**.

Memorising only the desired stations

You can store up to 6 stations on each band (a total of 18 for FM I, FM II, and FM III, and 6 for AM) in the order of your choice.

1 Press **SOURCE** repeatedly to select the tuner.

2 Press **MODE** repeatedly to select the band.

3 Press and hold either side of **SEEK/AMS** to tune in the station that you want to store on the number button.

4 Press and hold the desired number button (**1** to **6**) until "MEM" appears. The number button indication appears in the display.

Note

If you try to store another station on the same number button, the previously stored station will be erased.

Receiving the memorised stations

- 1 Press **(SOURCE)** repeatedly to select the tuner.
- 2 Press **(MODE)** repeatedly to select the band.
- 3 Press the number button (**(1)** to **(6)**) on which the desired station is stored.

If you cannot tune in a preset station

Press either side of **(SEEK/AMS)** to search for the station (automatic tuning). Scanning stops when the unit receives a station. Press either side of **(SEEK/AMS)** repeatedly until the desired station is received.

Note
If the automatic tuning stops too frequently, press **(SENS/STN)** repeatedly until "LOCAL" (local seek mode) is displayed. Only the stations with relatively strong signals will be tuned in.

Tip
If you know the frequency of the station you want to listen to, press and hold either side of **(SEEK/AMS)** until the desired frequency appears (manual tuning).

If FM stereo reception is poor — Monaural Mode

Press **(SENS/STN)** repeatedly until "MONO" appears. The sound improves, but becomes monaural ("STEREO" disappears).

To return to normal mode, press again until "MONO" disappears.

Changing the display item

Each time you press **(DISP)**, the item changes as follows:

Frequency ↔ Clock

Other Functions

Adjusting the sound characteristics

You can adjust the bass, treble, balance, and fader. You can store the bass and treble levels. Each source can store the bass and treble levels independently.

- 1 Select the item you want to adjust by pressing **(SOUND)** repeatedly.

BAS (bass) → TRE (treble) →
BALANCE (left-right) →
FADER (front-rear) → VOL (volume)

- 2 Adjust the selected item by pressing **(+)** or **(-)**.
Adjust within three seconds after selecting the item. (After three seconds, the buttons function reverts to volume control.)

Cancel the beep sound

Press **(E)** while pressing **(SOUND)**.

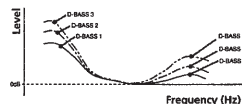
To obtain the beep sound again, press these buttons again.

Note
If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.

Boosting the bass sound

— D-bass

You can enjoy a clear and powerful bass sound. The D-bass function boosts the low frequency and high frequency signal with a sharper curve than conventional bass boost. You can hear the bass line more clearly even while the vocal volume remains the same. You can emphasize and adjust the bass sound easily with the D-BASS control.



Adjusting the bass curve

Press **(D-BASS)** repeatedly to select the desired bass curve. "D-BASS" appears in the display. As the D-BASS number increases so does the effect.

D-BASS 1 → D-BASS 2 → D-BASS 3 →
D-BASS OFF

Note
The bass sound may distort at same volume. If the bass sound distorts, select less effective bass curve.

Attenuating the sound

Press **(ATT)**.
"ATT" flashes.

To restore the previous volume level, press **(ATT)** again.

Connections

Caution

- This unit is designed for negative earth 12 V DC operation only.
- Before making connections, disconnect the earth terminal of the car battery to avoid short circuits.
- Connect the yellow and red power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- Run all earth wires to a common earth point.
- Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating. If you connect this unit in series with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual component's fuse rating. If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery. If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.

Warning when installing in a car without ACC (accessory) position on the Ignition key switch

Be sure to press **(OFF)** on the unit for two seconds to turn off the clock display after turned off the engine.
When you press **(OFF)** momentarily, the clock display does not turn off and this causes battery wear.

Frequency select switch

The AM (FM) tuning interval is factory-set to the 9K (50K) position. If the frequency allocation system of your country is based on 10 kHz (200 kHz) interval, set the switch on the bottom of the unit to the 10K (200K) position before making connections.

Reset button

When the installation and connections are complete, be sure to press the reset button with a ballpoint pen etc.

Conexiones

Precauciones

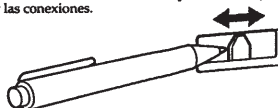
- Esta unidad ha sido diseñada para alimentarse solamente con 12 V CC, negativo a masa.
- Antes de realizar las conexiones, desconecte el terminal de puesta a masa de la batería del automóvil a fin de evitar cortocircuitos.
- Conecte los cables conectores de alimentación amarillo y rojo solamente después de haber conectado los demás.
- Cerciórese de conectar el cable conector de alimentación rojo a un terminal de 12 V positivo que se energice al poner la llave de encendido en la posición para accesorios.
- Conecte todos los conductores de puesta a masa a un punto común.
- Conecte el cable amarillo a un circuito libre del automóvil que tenga una capacidad superior a la de la suma de las capacidades de los fusibles de cada componente. Si ningún circuito del automóvil tiene una capacidad tan alta como la del fusible de la unidad, conecte ésta directamente a la batería. Si el automóvil no dispone de ningún circuito para conectar esta unidad, conéctela a un circuito del automóvil con capacidad superior a la del fusible de la unidad, de forma que si se funde el fusible de ésta, no se interrumpa ningún otro circuito.

Advertencia sobre la instalación en un automóvil que no disponga de posición ACC (accesorios) en el interruptor de la llave de encendido

Asegúrese de pulsar **(OFF)** en la unidad durante dos segundos para desactivar la indicación del reloj una vez apagado el motor. Si pulsa **(OFF)** momentáneamente, la indicación del reloj no se desactivará y esto causará el desgaste de la batería.

Selector de frecuencia

El intervalo de sintonía de AM (FM) ha sido ajustado en fábrica a la posición 9K (50K). Si el sistema de asignación de frecuencias de su país se basa en el intervalo de 10 kHz (200 kHz), ponga este selector, situado en la base de la unidad, en la posición 10K (200K) antes de realizar las conexiones.



Botón de restauración

Cuando finalice la instalación y las conexiones, cerciórese de presionar el botón de restauración con un bolígrafo, etc.



連接

注意

- 本機專用於負接地 12 V DC 電源操作為限。
- 連接以前，先拆開汽車電池的接地線以防發生短路。
- 紅色和黃色電源輸入導線必須等所有電線都連接完畢以後才連接。
- 紅色電線輸入導線請連接到汽車發動機點火鑰匙被轉在輔助位置時才通電狀態的正 12 V 電源端上。
- 將所有接地線都連接到適當接地點上。
- 將黃色導線連接到額定容量大於機器保險絲容量的未使用的汽車電路線上。如果把本機串連在連接有其他汽車立體聲組成機的汽車電路線上時，則須確認各組成音響系統的保險絲容量總和是否仍小於所連接的汽車電路的容量。如果沒有和機器保險絲的額定容量等值的汽車電路線，請把機器直接連接到汽車電池上。如果沒有適當的汽車電路線可用於連接本機，可將機器連接到大於機器保險絲容量的汽車電路線上。此時，須注意萬一機器燒斷了保險絲也沒有切斷別的使用電路的順才好。

當在點火鑰匙關閉沒具輔助位置的汽車里按裝時的警告

請確認在關閉發動機後按壓 **(OFF)** 鍵兩秒鐘以關閉時鐘顯示。
當您短暫按壓 **(OFF)** 鍵，時鐘顯示將不能關閉並且將引起電池消耗。

頻率選擇開關

AM (FM) 調諧間隔的工廠設定是在 9K (50K) 位置，如果貴國的頻率分配系統是用 10 kHz (200 kHz) 間隔，請在連接機器之前即將機器底面上的切換開關設定於 10 K (200 K) 的位置。

復位鍵

安裝和連接完畢時，一定要用一支圓珠筆等尖頭工具按下重調按鈕。

Connection diagram

Equipment used in illustrations (not supplied)
Equipo utilizado en las ilustraciones (no suministrado)
插圖中的器材（無附帶）



Power amplifier
Amplificador de potencia
功率放大器



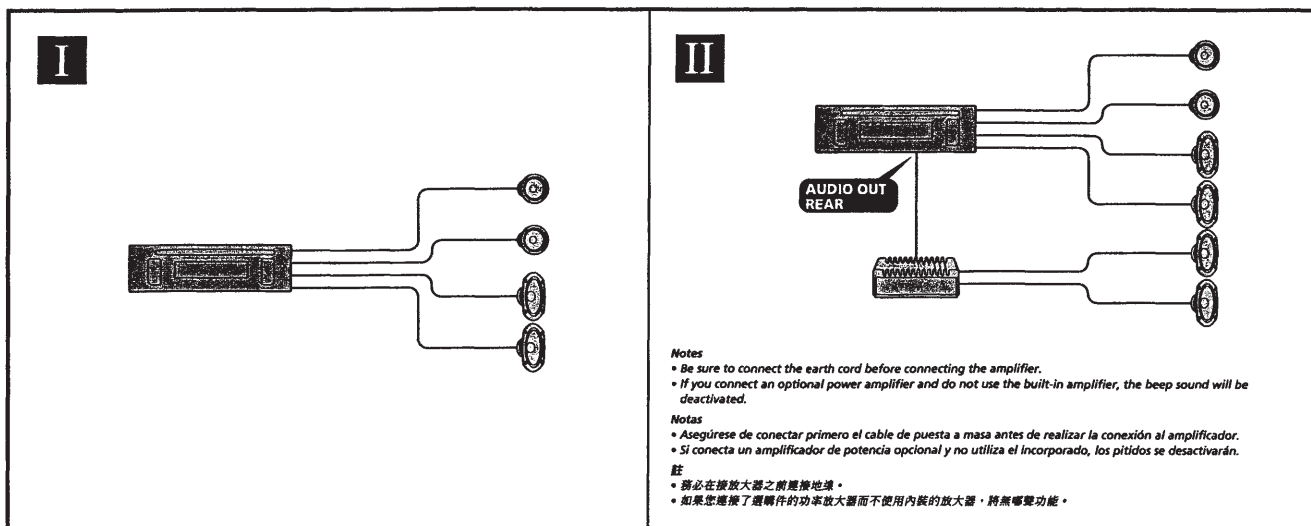
Front speaker
Altavoces delantero
前揚音器



Rear speaker
Altavoces trasero
後揚音器

Diagrama de conexiones

連接圖



Connection example Ejemplo de conexiones 連接舉例

to the power aerial control lead or power supply lead of an aerial booster amplifier
<Notes>

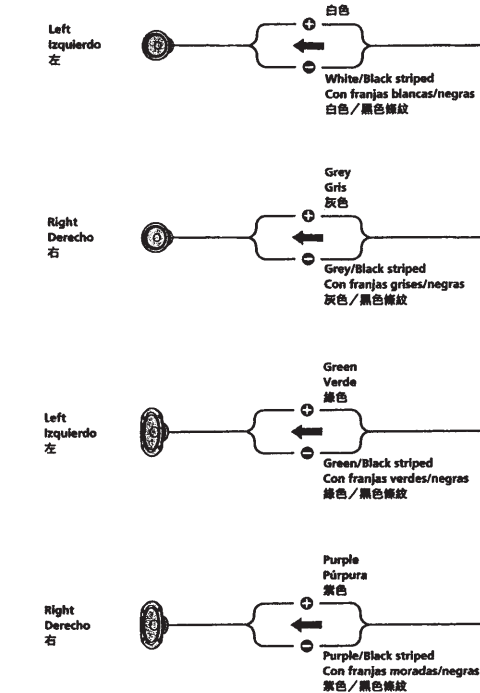
- It is not necessary to connect this lead if there is no power aerial or aerial booster, or with a manually-operated telescopic aerial.
- When your car has a built-in FM/AM aerial in the rear/side glass, see "Notes on the control leads."

al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de antena
<Notes>

- Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.
- Si el automóvil incorpora una antena de FM/AM en el cristal trasero/lateral, consulte "Notas sobre conductores de control".

至電動天線控制導線或天線升壓放大器的電源導線

- 如無電動天線或無天線增壓器，或帶有手動操作的拉杆天線時，便不必連接此導線。
- 當您的汽車在後/側玻璃窗上有內置FM/AM天線時，即請參看“控制電線須知”。



Notes on the control leads

- The ANT REM lead (blue) supplies +12 V DC when you turn on the unit.
- When your car has a built-in FM/AM aerial in the rear/side glass, it is necessary to connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.
- A power aerial without relay box cannot be used with this unit.

Memory hold connection

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

Notes on speaker connection

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

Notas sobre conductores de control

- El conductor ANT REM (azul) suministra +12 V CC cuando conecte la alimentación de la unidad.
- Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero/lateral, será necesario conectar el cable de control de antena motorizada (azul) o el cable auxiliar de entrada de alimentación (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener información detallada, consulte a su proveedor.
- Con esta unidad no podrá emplearse una antena motorizada desprovista de caja de relé.

Conexión para protección de la memoria

Si conecta el conductor de entrada de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, incluso aunque sitúe la llave de encendido en la posición de desactivación.

Notas sobre la conexión de los altavoces

- Antes de conectar los altavoces, desconecte la alimentación de la unidad.
- Utilice altavoces con una impedancia de 4 a 8 ohmios, y con la potencia máxima admisible adecuada, ya que de lo contrario podría dañarlos.
- No conecte los terminales del sistema de altavoces al chasis del automóvil, ni los del altavoz izquierdo a los del derecho.
- No intente conectar los altavoces en paralelo.
- No conecte altavoces activos (con amplificadores incorporados) a los terminales de altavoces de la unidad. Si lo hiciera, podría dañar tales terminales. Por lo tanto, cerciórese de conectar altavoces pasivos a estos terminales.

AUDIO OUT REAR

from car aerial
de la antena del automóvil
來自汽車天線

RCA pin cord (not supplied)
Cable con pines RCA (no suministrado)
RCA 插頭導線 (未附帶)

to the +12 V power terminal which is energised at the accessory position of the ignition key switch
<Note> If there is no accessory position, connect to the +12 V power (battery) terminal which is energised at all times.

Be sure to connect the black earth lead to it first.

a un terminal de alimentación de +12 V que se energiza en la posición para accesorios del interruptor de la llave de encendido
<Nota> Si no existe posición para accesorios, realice la conexión al terminal de alimentación (batería) de +12 V que reciba energía permanentemente. Asegúrese de conectar primero a este terminal el conductor de puesta a masa negro.

至通電的點火鑰匙開關的輔助位置的 +12 V 電源端子
<註> 若沒有輔助位置，則請連接至常時通電的 +12V 電源（電池）端子。一定要先連接好黑色的接地線。

to the +12 V power terminal which is energised at all times
Be sure to connect the black earth lead to it first.

a un terminal de alimentación de +12 V que esté permanentemente energizado
Asegúrese de conectar primero a este terminal el conductor de puesta a masa negro.

至常時通電的 +12 V 電源端子
一定要先連接好黑色的接地線。

to a metal place in the car
First connect the black earth lead, then connect the yellow and red power input leads.

a un punto metálico del automóvil
En primer lugar conecte el conductor de puesta a masa negro y, a continuación, los cables de entrada de alimentación amarillo y rojo.

至汽車上的金屬部分
先接好黑色線的接地線，然後才接黃色和紅色的電源輸入導線。

控制電線須知

- 當打開儀器電源時，ANT REM 電線（藍色）將供給 +12 V DC 電流。
- 當您的汽車在後/側玻璃窗上有內置FM/AM天線時，即請把電動天線控制導線（藍色）或附屬電源輸入導線（紅色）連接至現有的天線增壓器的電源端子上。詳細內容，請洽詢經銷商。
- 不帶通電的電動天線是不能用於本儀器的。

保持存儲的記憶

當連接著黃色電源輸入導線時，則即使關掉了點火鑰匙開關，仍可保持經常供給存儲電路的電源。

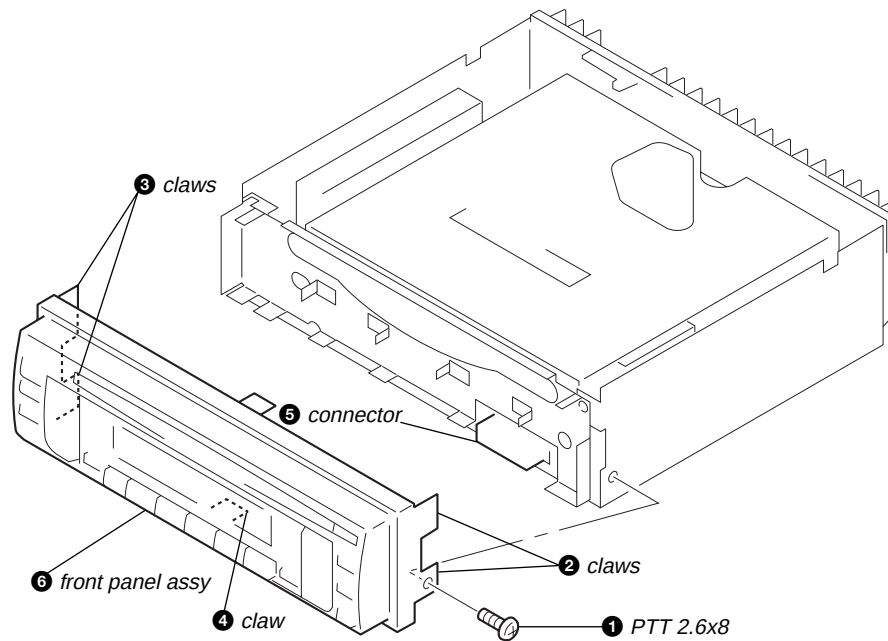
連接揚聲器須知

- 要連接揚聲器時，必須先關掉儀器電源。
- 請使用阻抗 4 到 8 歐和適當的功率使用容量的揚聲器。否則，揚聲器可能會被損壞。
- 別將揚聲器系統的端子連接到汽車底盤，也不要將右揚聲器的端子連接左揚聲器的端子。
- 不可試圖並連揚聲器。
- 別將任何有源揚聲器（內置有放大器的）連接到儀器的揚聲器端子。那樣作了會損壞有源揚聲器的。請注意在這些端子上一定只能連接無源揚聲器使用。

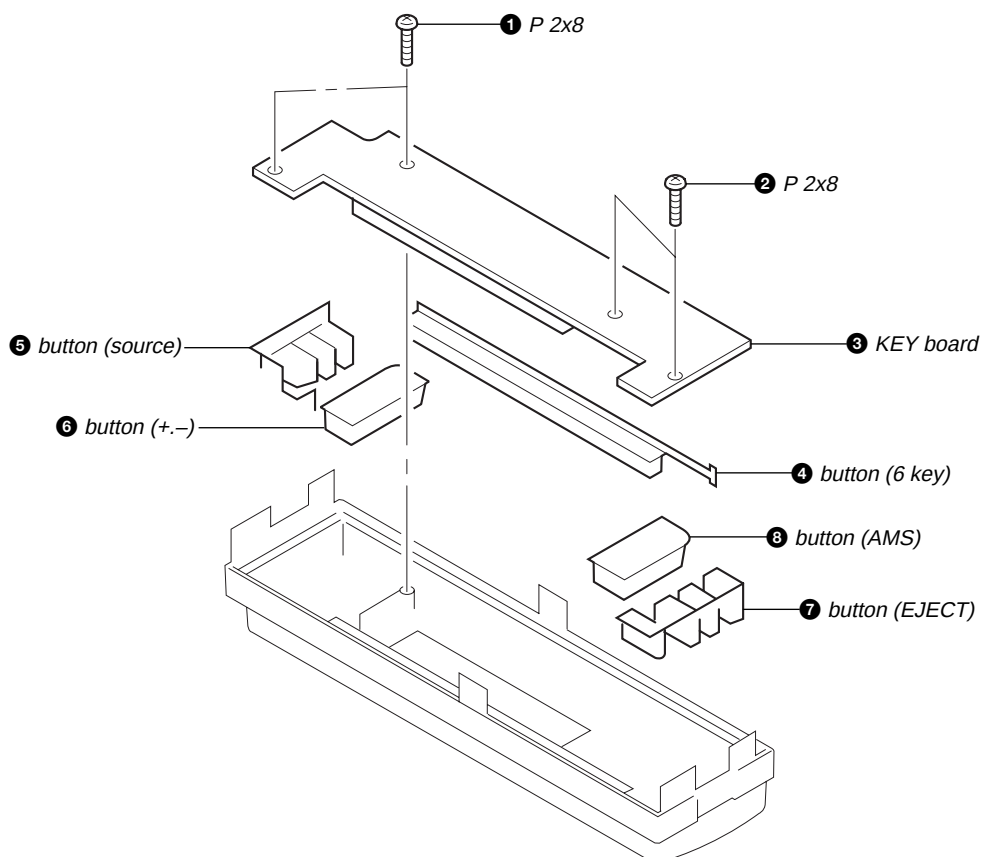
SECTION 2 DISASSEMBLY

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

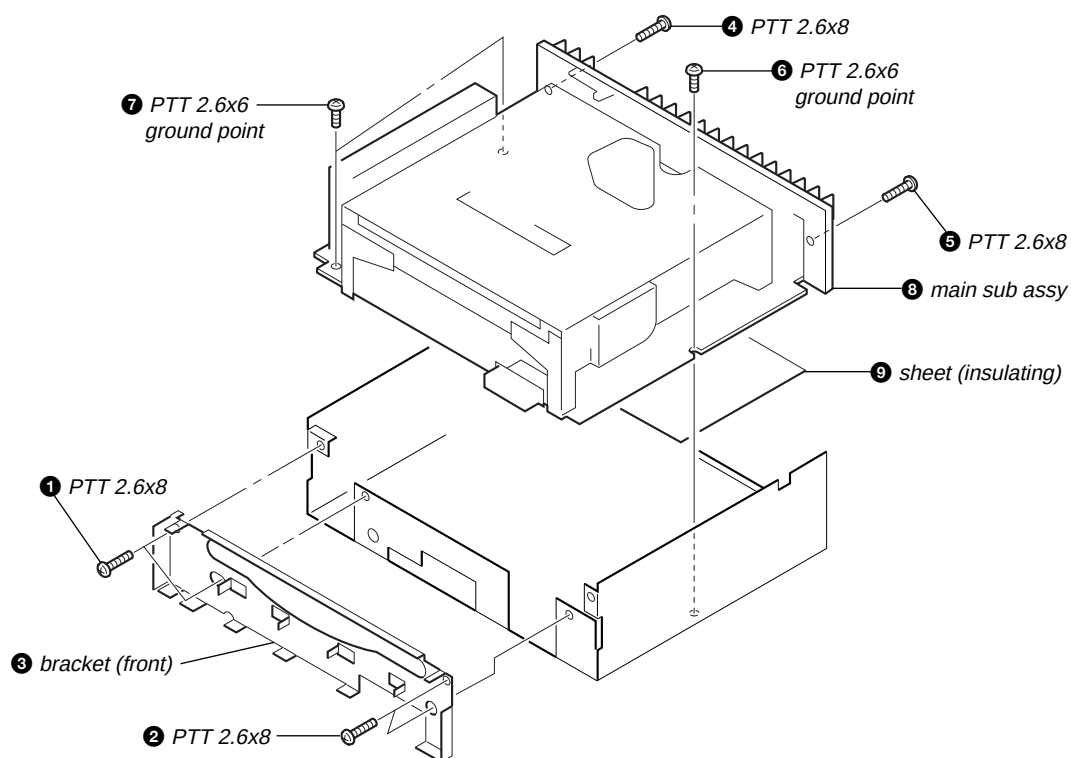
2-1. FRONT PANEL ASSY



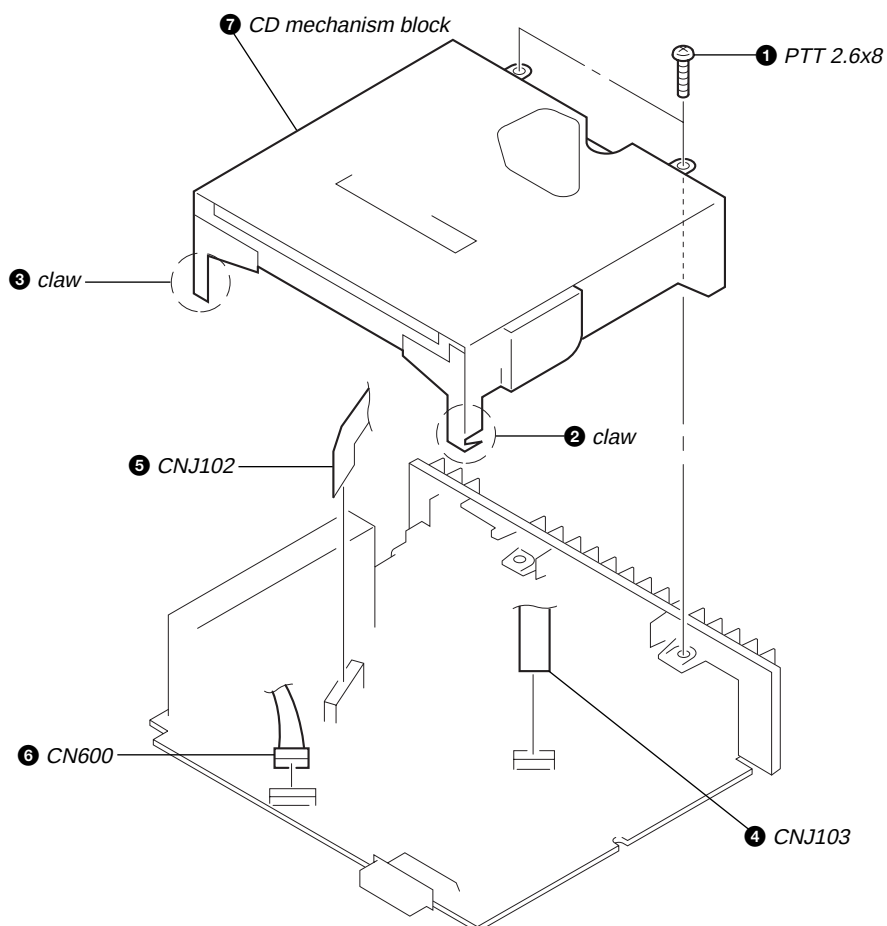
2-2. KEY BOARD



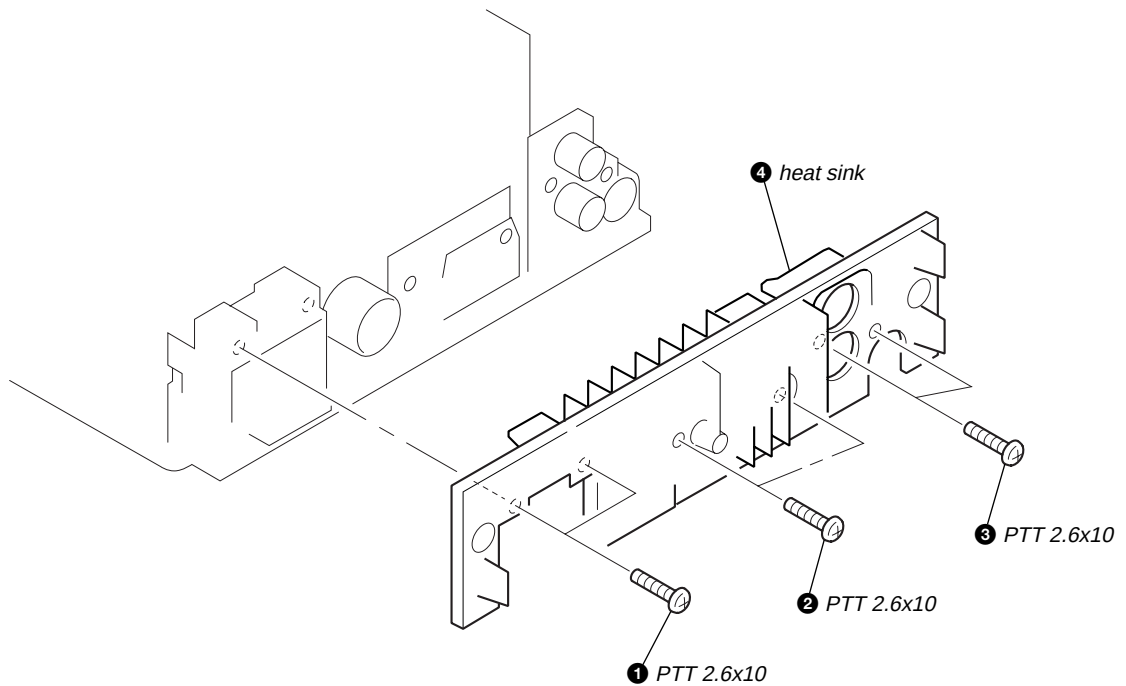
2-3. MAIN SUB ASSY



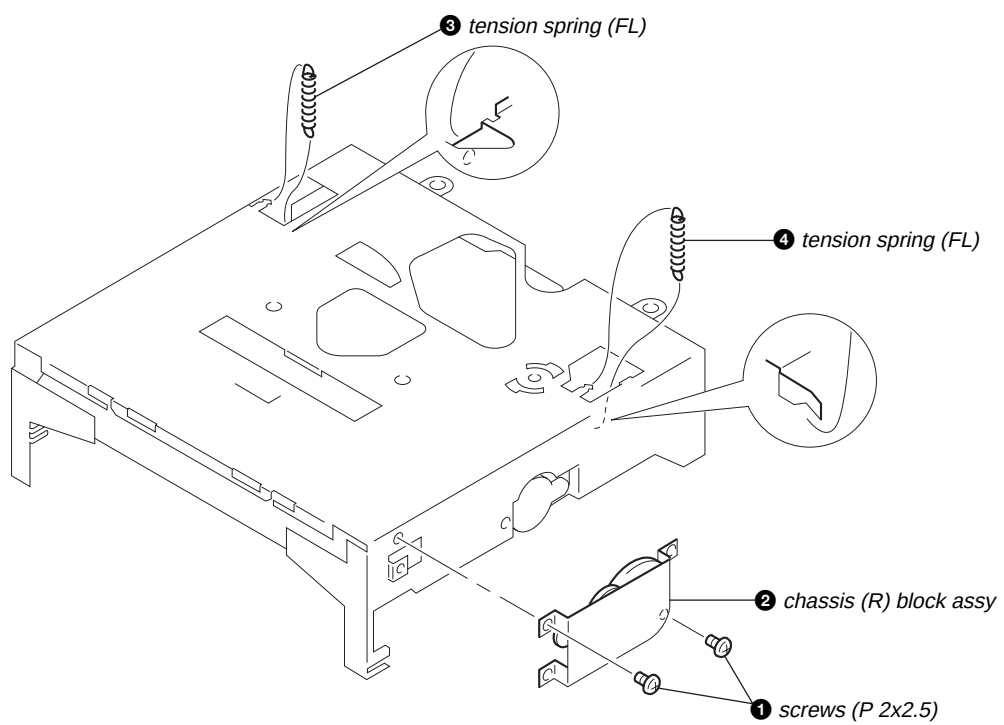
2-4. CD MECHANISM BLOCK



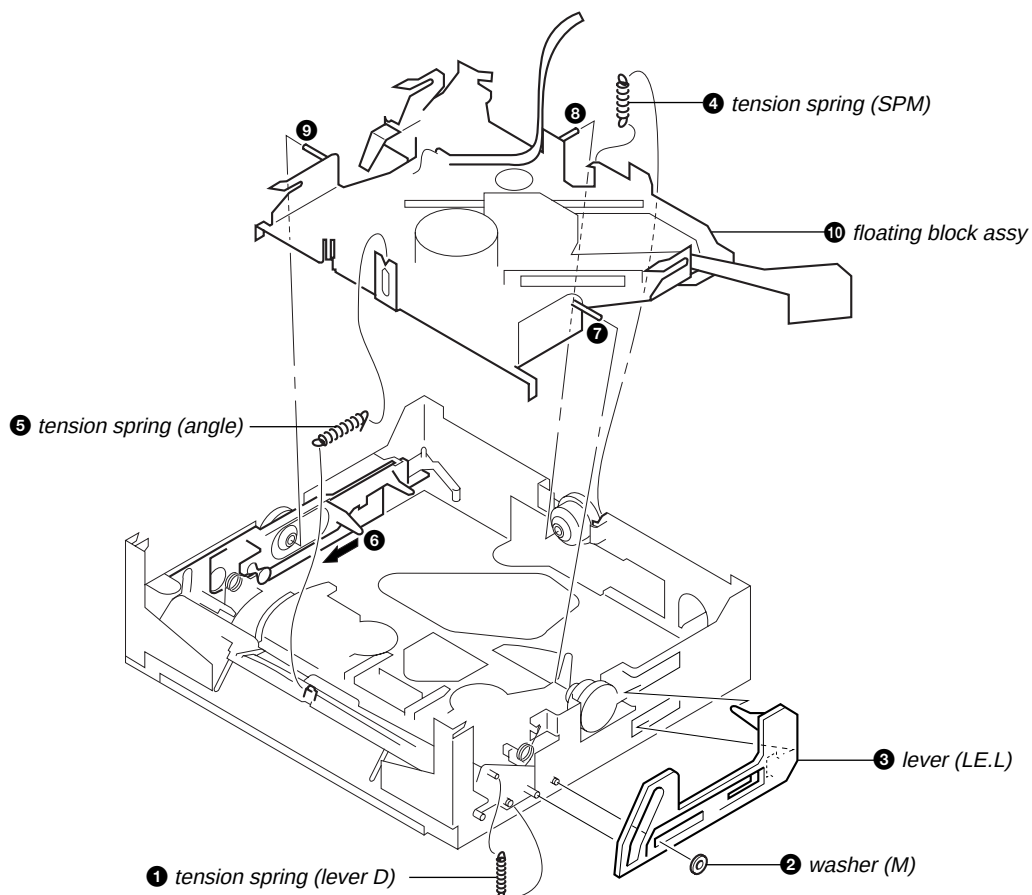
2-5. HEAT SINK



2-6. CHASSIS (R) BLOCK ASSY

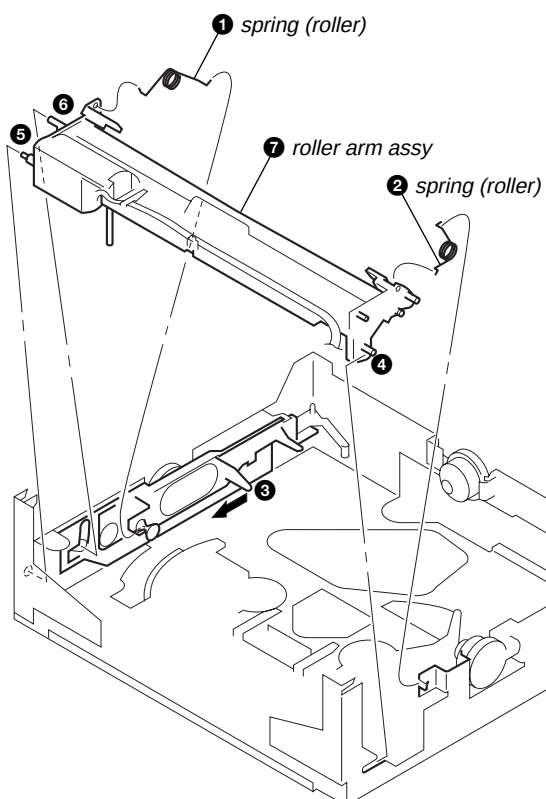


2-7. FLOATING BLOCK ASSY

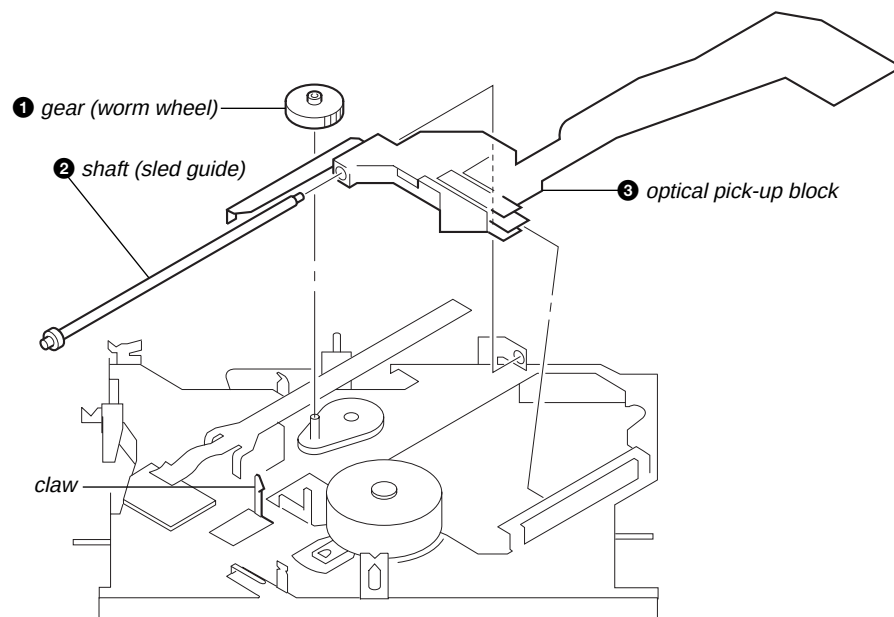


2-8. ROLLER ARM ASSY

Note : When replacing the spring roller, replace the rollers at the right and left ends at the same time.



2-9. OPTICAL PICK-UP BLOCK



SECTION 3 DIAGRAMS

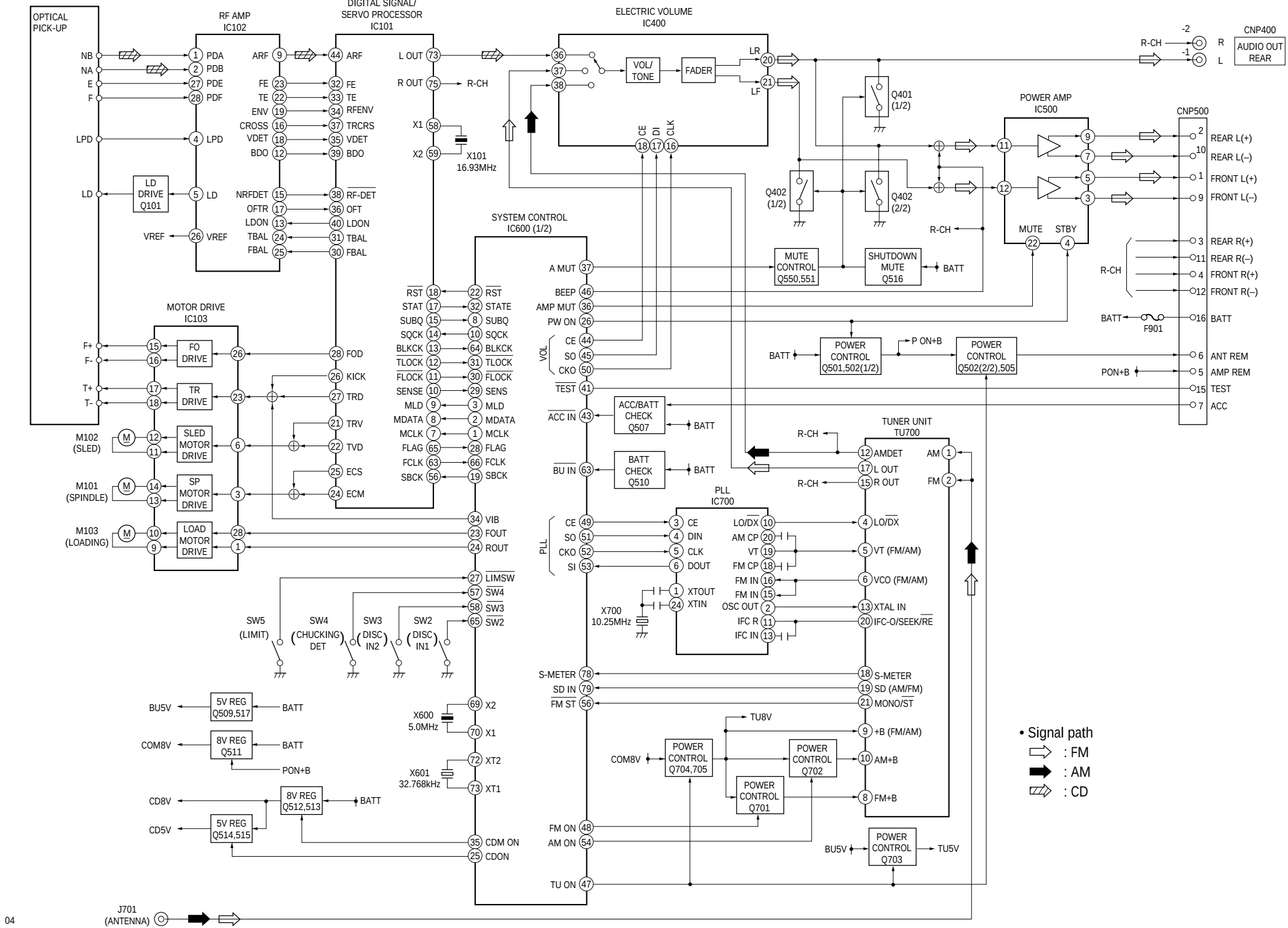
3-1. IC PIN DESCRIPTION

• IC600 μ PD78005GC-133-8BT (SYSTEM CONTROL)

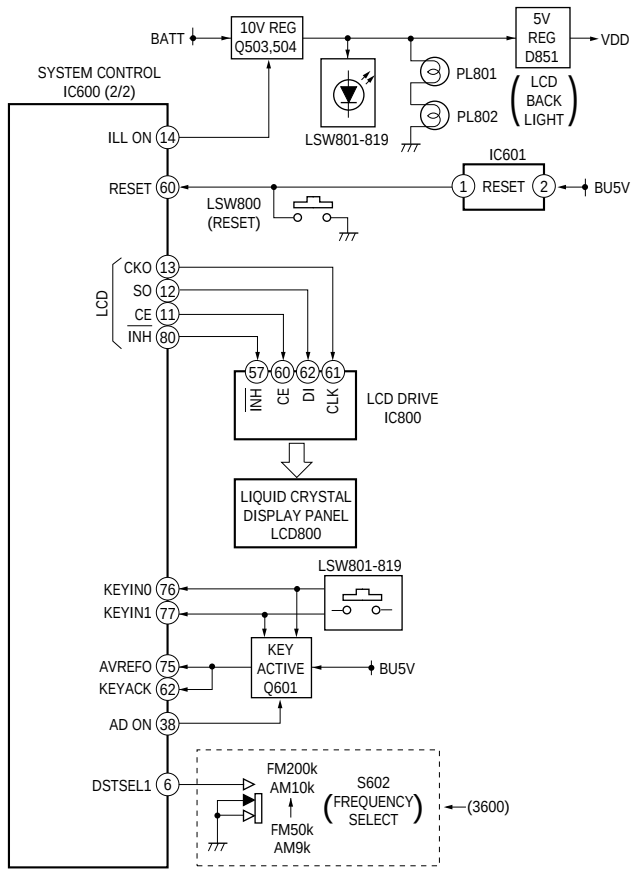
Pin No.	Pin Name	I/O	Pin Description
1	MCLK	O	Microcomputer command clock signal output (data latch on rising)
2	MDATA	O	Microcomputer command data signal output
3	MLD	O	Microcomputer command load signal output
4	AVSS	—	Analog ground
5	DSTSEL0	I	Destination select setting input (Connect to ground in this set.)
6	DSTSEL1	I	9k/10k select setting input (“L”: 9 kHz step, “H”: 10 kHz step)
7	AVREF1	I	Analog reference voltage input
8	SUBQ	I	Sub code Q data input
9	—	—	Not used.
10	SQCK	O	Clock output for sub code Q register.
11	LCDCE	O	LCD driver serial chip enable output
12	LCDSO	O	LCD driver serial data output
13	LCDCKO	O	LCD driver serial clock output
14	ILLON	O	Illumination power control output
15	UNICKI	I	SONY-BUS serial interface clock input
16	UNISI	I	SONY-BUS serial interface data input
17	UNISO	O	SONY-BUS serial interface data output
18	UNICKO	O	SONY-BUS serial interface clock output
19	SBCK	O	Clock output for error correction result read-in.
20	$\overline{\text{BUSON}}$	O	BUS ON control output
21	$\overline{\text{SYS RST}}$	O	System reset control output
22	$\overline{\text{RST}}$	O	DSP reset signal output (“L” active)
23	FOUT	O	Loading motor control output (Forward direction)
24	ROUT	O	Loading motor control output (Reverse direction)
25	CD-ON	O	CD power control output
26	PW-ON	O	System power control output
27	$\overline{\text{LIMSW}}$	I	LIMIT switch input (“L” active)
28	FLAG	I	Data input for error correction result read-in.
29	SENS	I	SENS signal input
30	$\overline{\text{FLOCK}}$	I	Focus servo pulling signal input (“L” active)
31	$\overline{\text{TLOCK}}$	I	Tracking servo pulling signal input (“L” active)
32	STATE	I	Status signal input
33	VSS1	—	Ground
34	VIB.	I/O	Vibration lens input/output
35	CDM-ON	O	CD mechanism power control output
36	AMPMUT	O	Power amplifier mute control output
37	A-MUT	O	Audio mute control output
38	$\overline{\text{AD-ON}}$	O	Power control output for A/D conversion.
39	$\overline{\text{PW-SEL}}$	O	Not used in this set.
40	$\overline{\text{NOSESW}}$	I	Front panel attachment detection input
41	$\overline{\text{TEST}}$	I	Test mode direct setting input
42	$\overline{\text{TELMUT}}$	O	Not used in this set.
43	$\overline{\text{ACCIN}}$	I	Accessory power supply voltage detection input
44	VOLCE	O	Electric volume serial chip enable output
45	VOLSO	O	Electric volume serial data output
46	BEEP	O	Beep output
47	TUNON	O	Tuner ON output
48	FMON	O	FM ON output
49	PLLCE	O	PLL chip enable output
50	VOLCKO	O	Electric volume serial clock output
51	PLLDO	O	PLL data output

Pin No.	Pin Name	I/O	Pin Description
52	PLLCKO	O	PLL clock output
53	PLLSI	I	PLL data input
54	AMON	O	AM ON output
55	—	—	Not used in this set.
56	$\overline{\text{FMST}}$	I/O	ST-IND indication input/Forced Monaural output
57	$\overline{\text{SW4}}$	I	Switch 4 input (“L” active)
58	$\overline{\text{SW3}}$	I	Switch 3 input (“L” active)
59	$\overline{\text{SW1}}$	I	Switch 1 input (“L” active)
60	$\overline{\text{RESET}}$	I	System reset input
61	SIRCS	I	Remote commander input (Not used in this set)
62	KEYACK	I	Key input acknowledge
63	$\overline{\text{BUIN}}$	I	Backup power supply detection input
64	BLKCK	I	Sub code block clock signal input (interruption)
65	$\overline{\text{SW2}}$	I	Switch 2 input (“L” active)
66	FCLK	I	Latch input for error correction result read-in. (interruption)
67	VSS0	—	Ground
68	VDD1	—	Power supply pin (+5 V)
69	X2	—	Main system clock output (5 MHz)
70	X1	—	Main system clock input (5 MHz)
71	VPP	—	Internal connection
72	XT2	—	Sub system clock output (32.768 kHz)
73	XT1	—	Sub system clock input (32.768 kHz)
74	VDD0	—	Power supply pin (+5 V)
75	AVREF0	—	Analog reference voltage input
76	KEYIN0	I	Key input 0
77	KEYIN1	I	Key input 1
78	S-METER	I	AM/FM S-meter voltage detection input
79	$\overline{\text{SD-IN}}$	I	Signal detector input
80	$\overline{\text{LCDINH}}$	O	LCD blank indication control output

3-2. BLOCK DIAGRAM — MAIN SECTION —



3-3. BLOCK DIAGRAM — DISPLAY SECTION —



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams

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

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

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

- $\text{B}+$: B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are taken with a VOM (Input impedance 10 $\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - $\Rightarrow$: FM
 - $\Rightarrow$: AM
 - $\Rightarrow$: CD

For printed wiring boards

- $\circ$: parts extracted from the component side.
- — : parts extracted from the conductor side.
- $\circ$: Through hole.
- Δ : internal component.
- Pattern : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

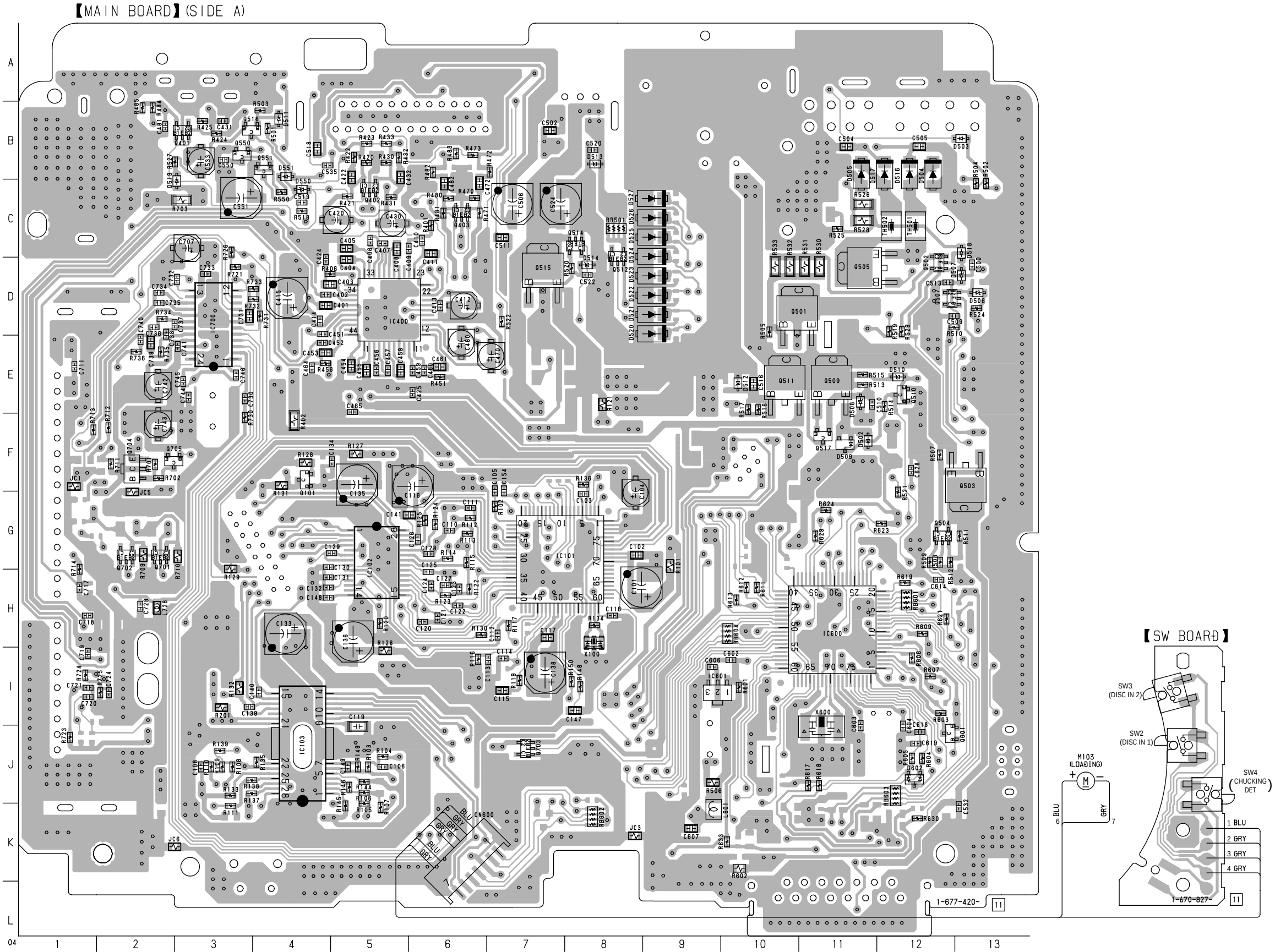
Caution:
Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.
Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.

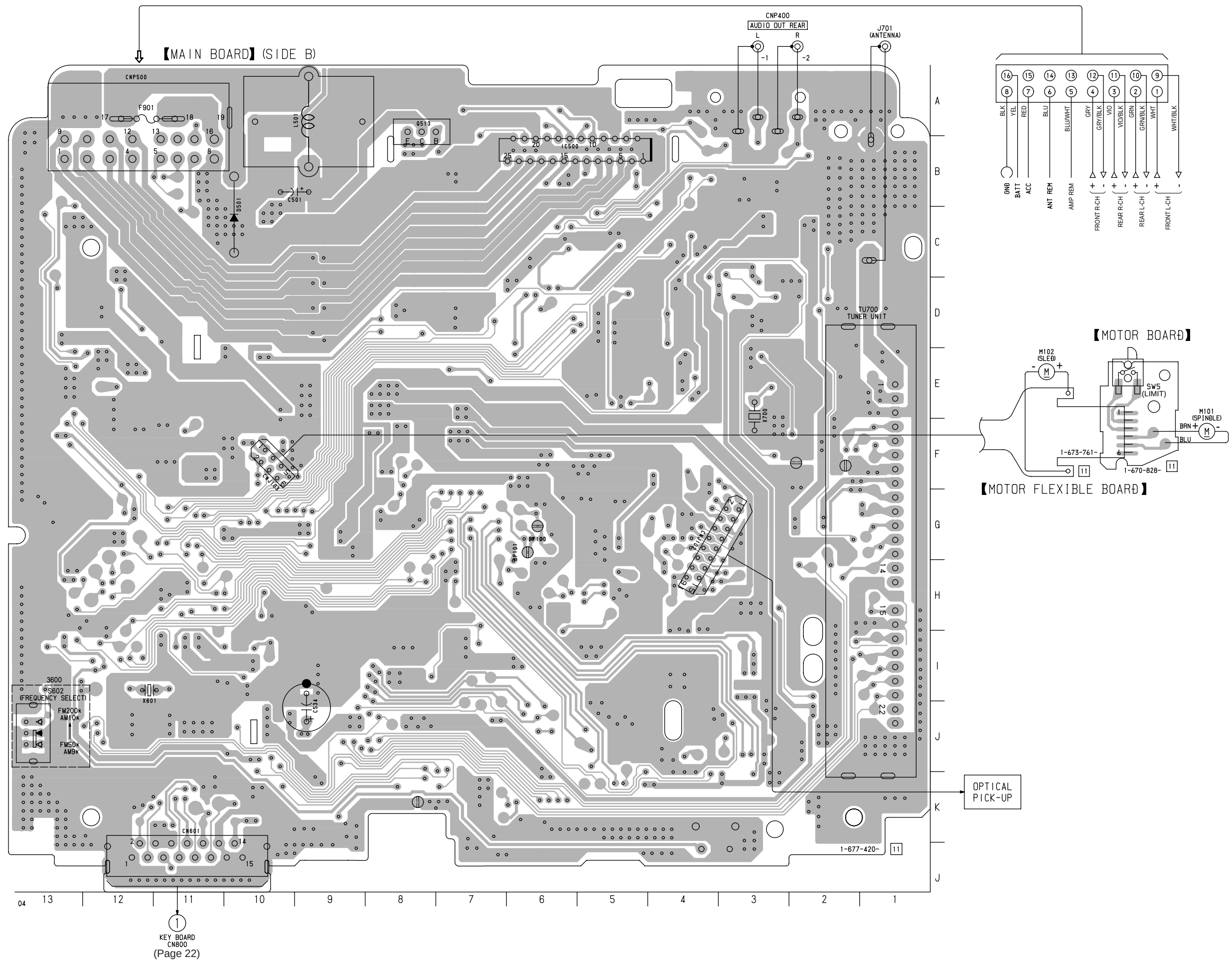
3-4. PRINTED WIRING BOARDS — MAIN SECTION —

• Semiconductor
Location

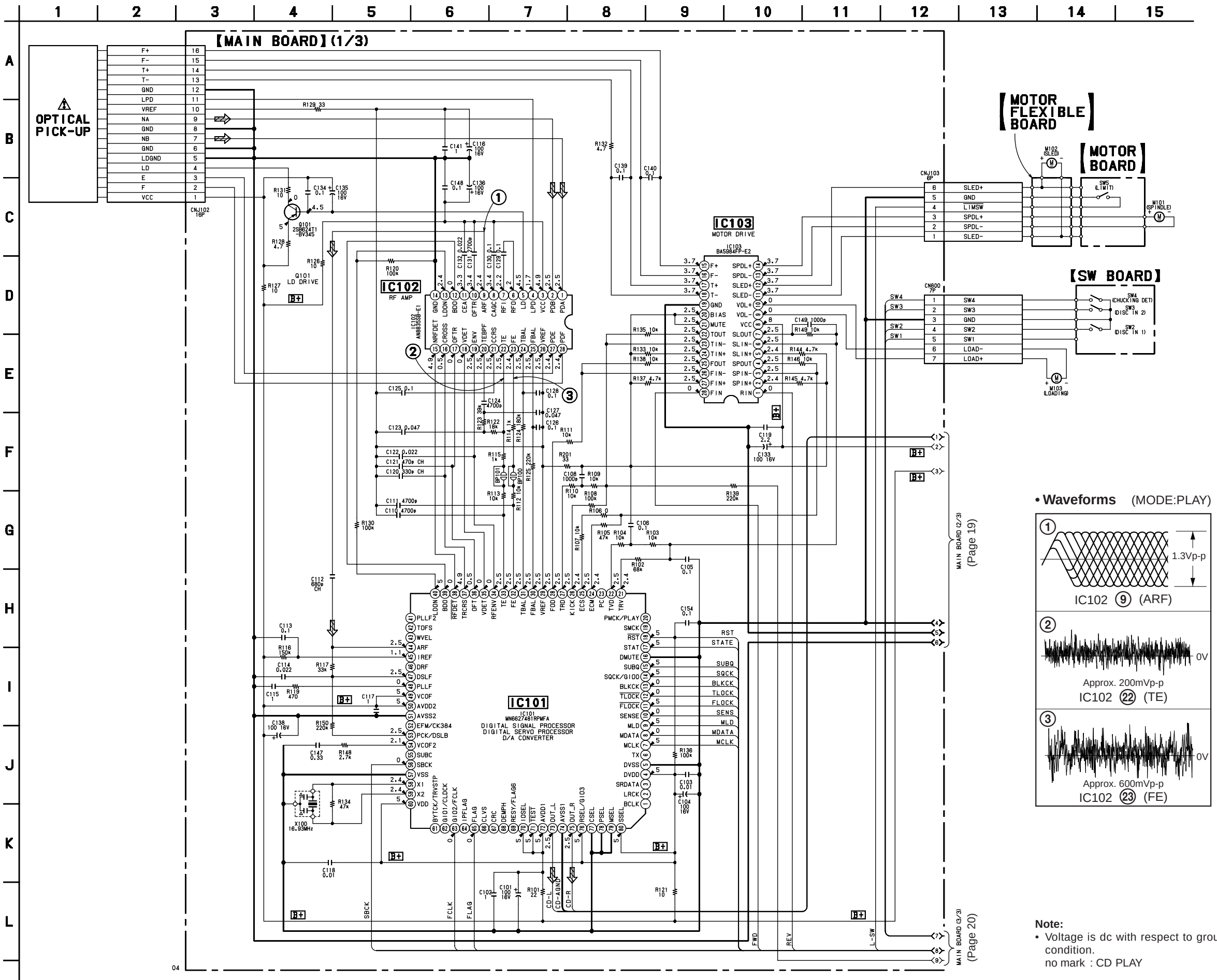
Ref. No.	Location
(D501)	B-6
D502	F-11
D503	B-13
D504	B-12
D505	B-11
D506	D-13
D507	D-13
D508	E-11
D509	F-11
D510	E-12
D511	B-4
D512	E-10
D513	B-8
D514	D-8
D516	B-12
D517	B-12
D518	D-13
D519	C-3
D520	D-9
D521	D-9
D522	D-9
D523	D-9
D524	C-9
D525	C-9
D526	C-9
D527	C-9
D550	C-4
D551	C-4
D602	J-12
IC101	G-8
IC102	H-5
IC103	J-4
IC400	D-5
(IC500)	B-6
IC600	H-11
IC601	I-9
IC700	E-3
Q101	F-4
Q401	B-3
Q402	C-5
Q403	C-6
Q501	D-10
Q502	D-12
Q503	F-13
Q504	G-12
Q505	D-11
Q507	D-12
Q509	E-11
Q510	E-12
Q511	E-10
Q512	C-8
(Q513)	B-7
Q514	C-8
Q515	D-7
Q516	B-3
Q517	F-11
Q550	B-3
Q551	B-4
Q601	J-12
Q701	G-2
Q702	G-2
Q703	J-7
Q704	F-2
Q705	F-3

() : SIDE B





3-5. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 23 for IC Block Diagrams.

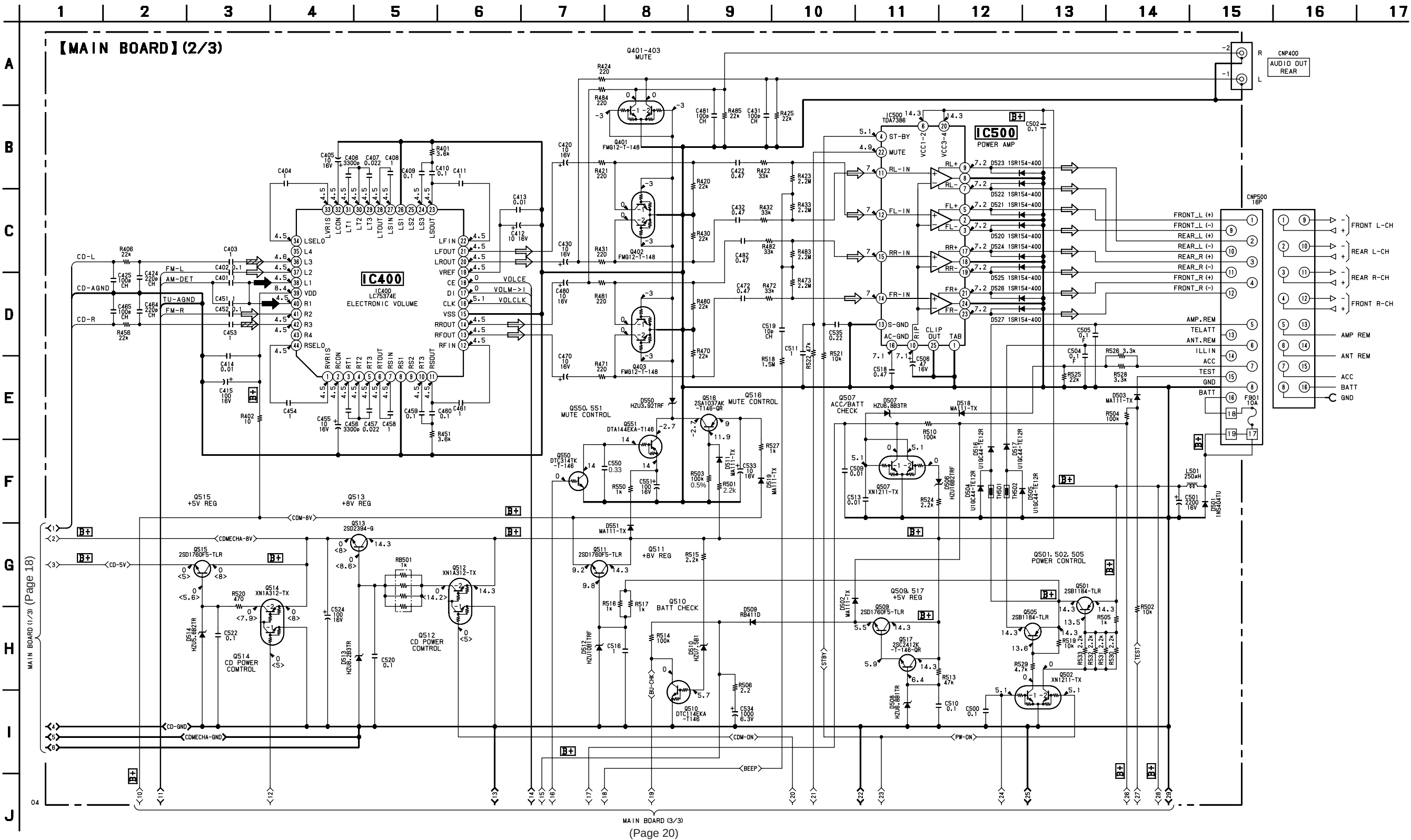


Note:

- Voltage is dc with respect to ground under no-signal condition.

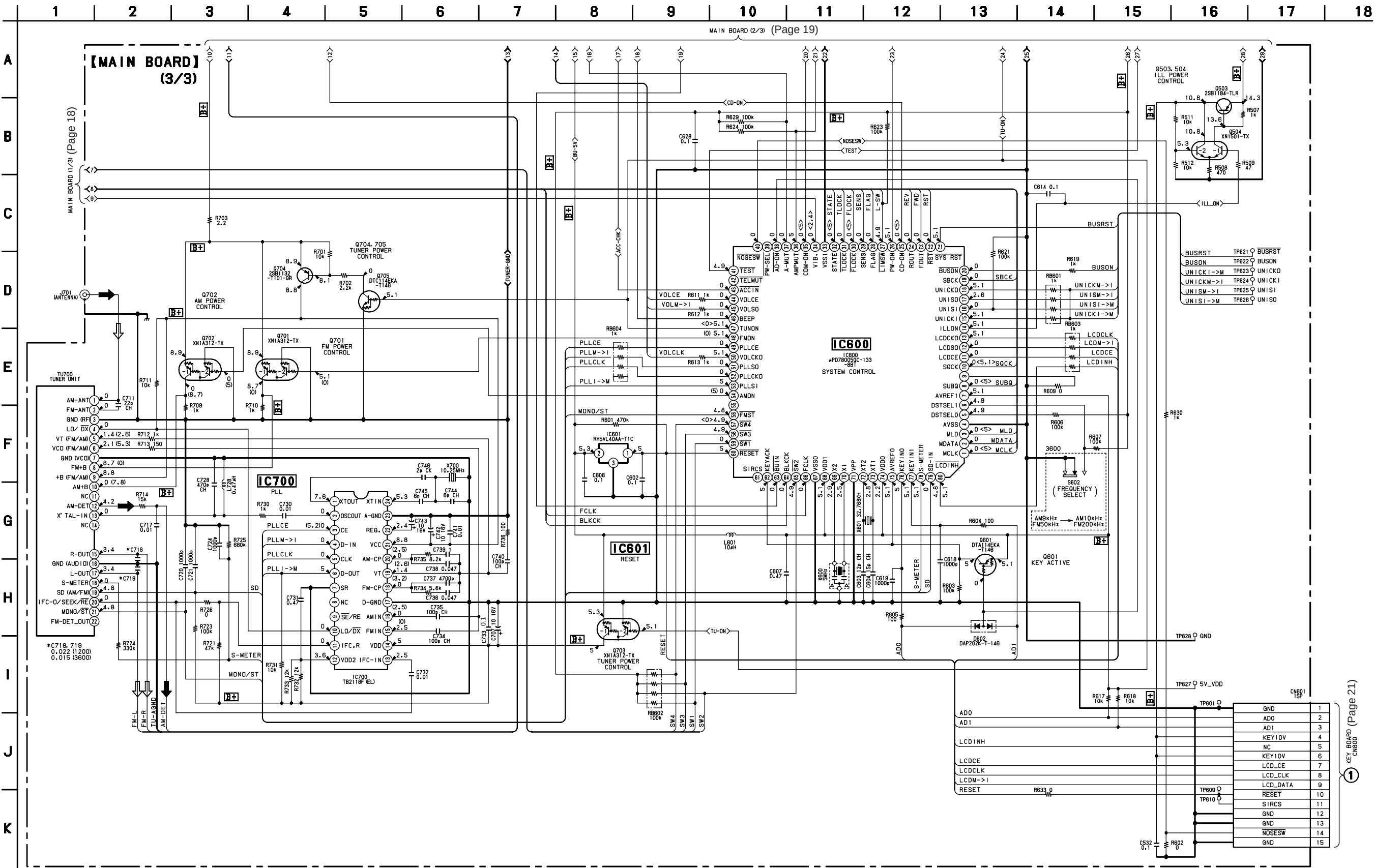
no mark : CD PLAY

3-6. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) — • Refer to page 24 for IC Block Diagrams.



Note:
• Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : FM

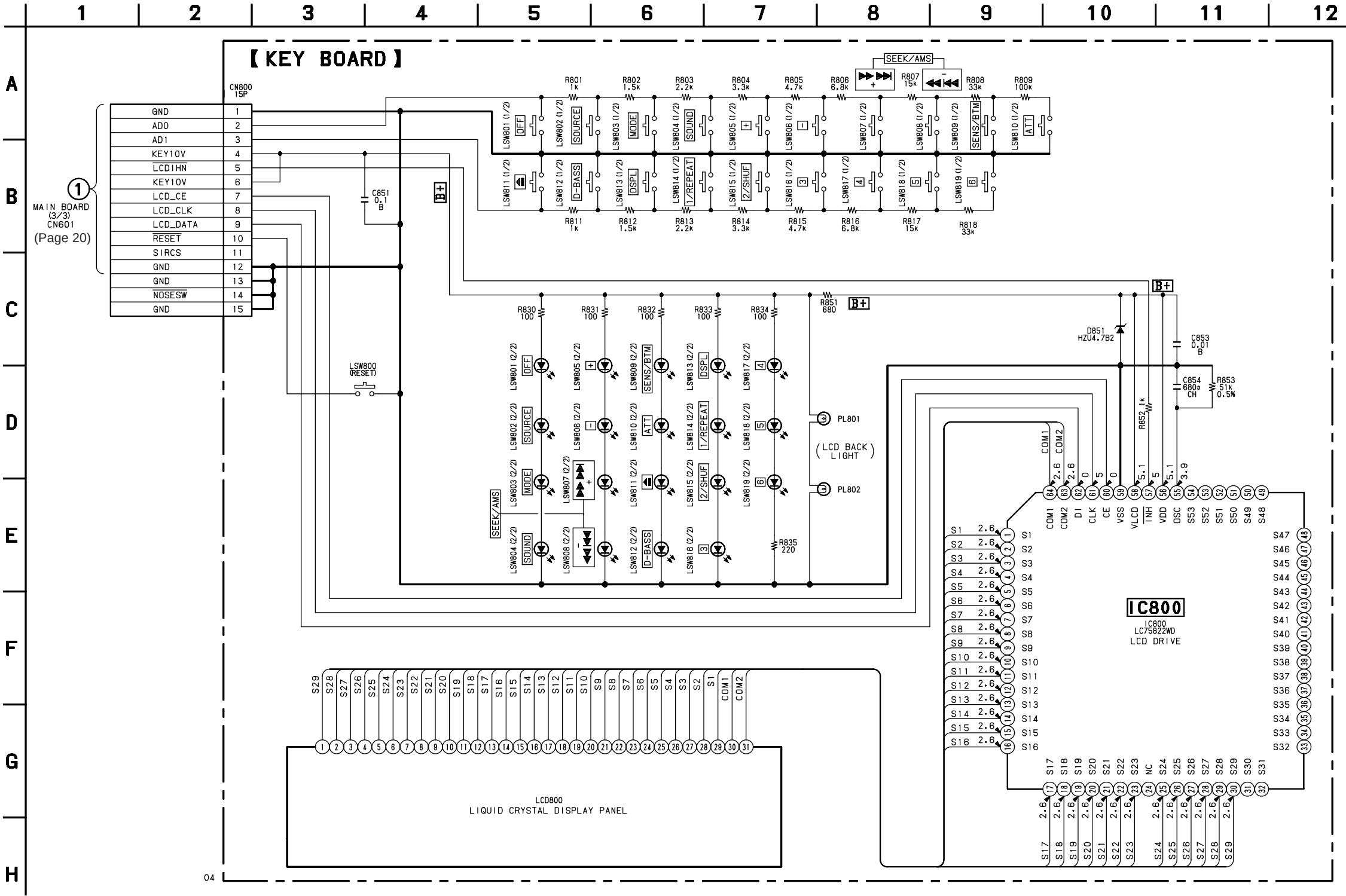
3-7. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) — • Refer to page 24 for IC Block Diagrams.



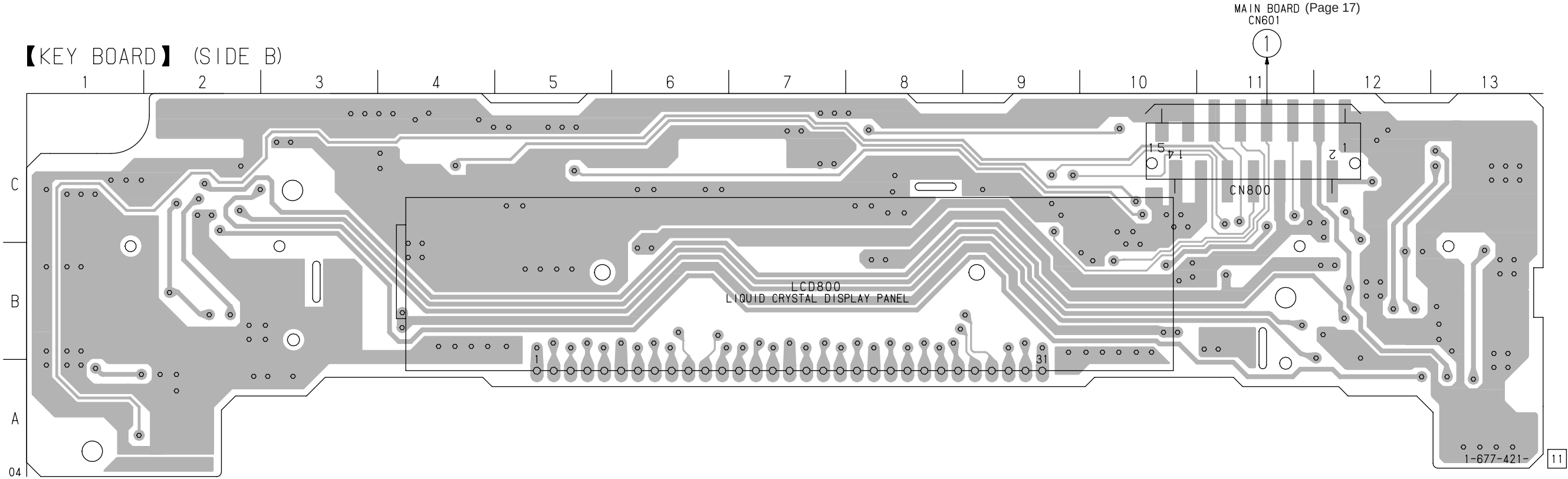
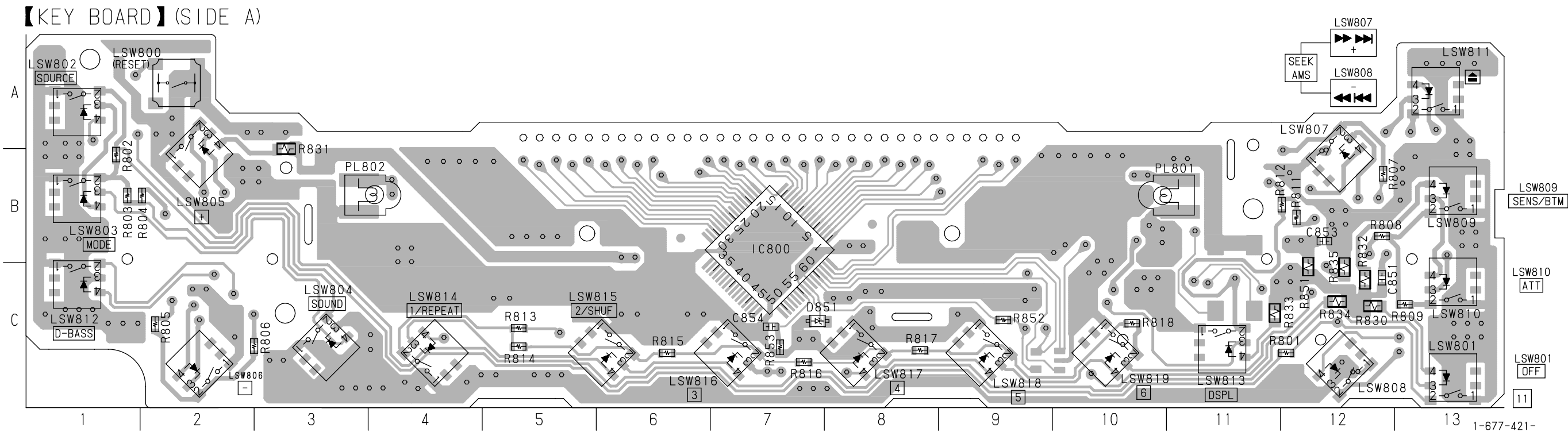
Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : FM
() : AM
< > : CD PLAY

3-8. SCHEMATIC DIAGRAM — DISPLAY SECTION —

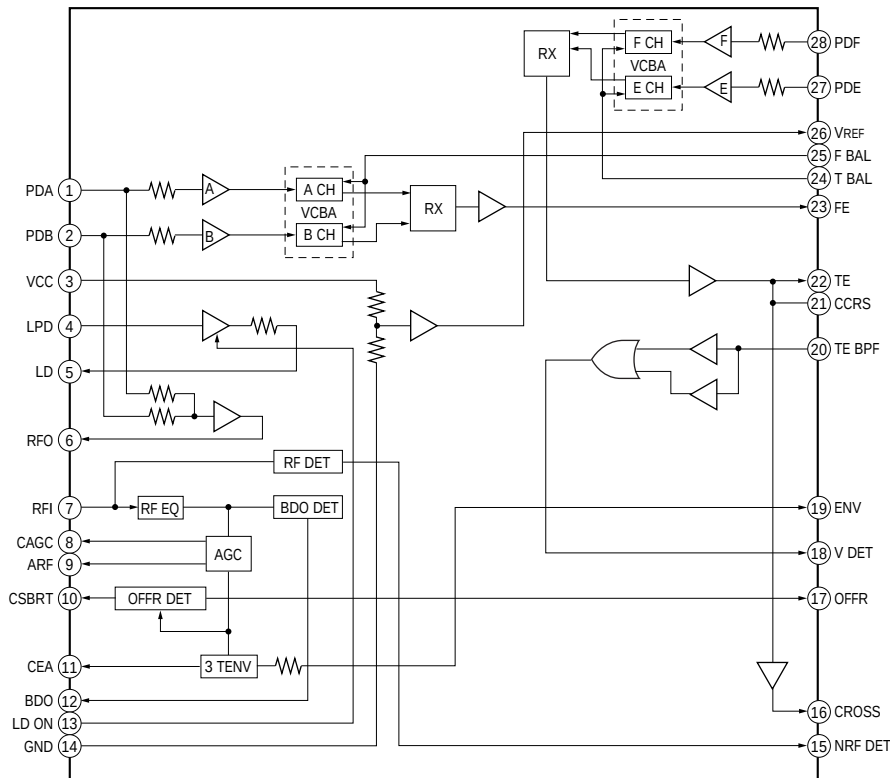


3-9. PRINTED WIRING BOARD — DISPLAY SECTION —

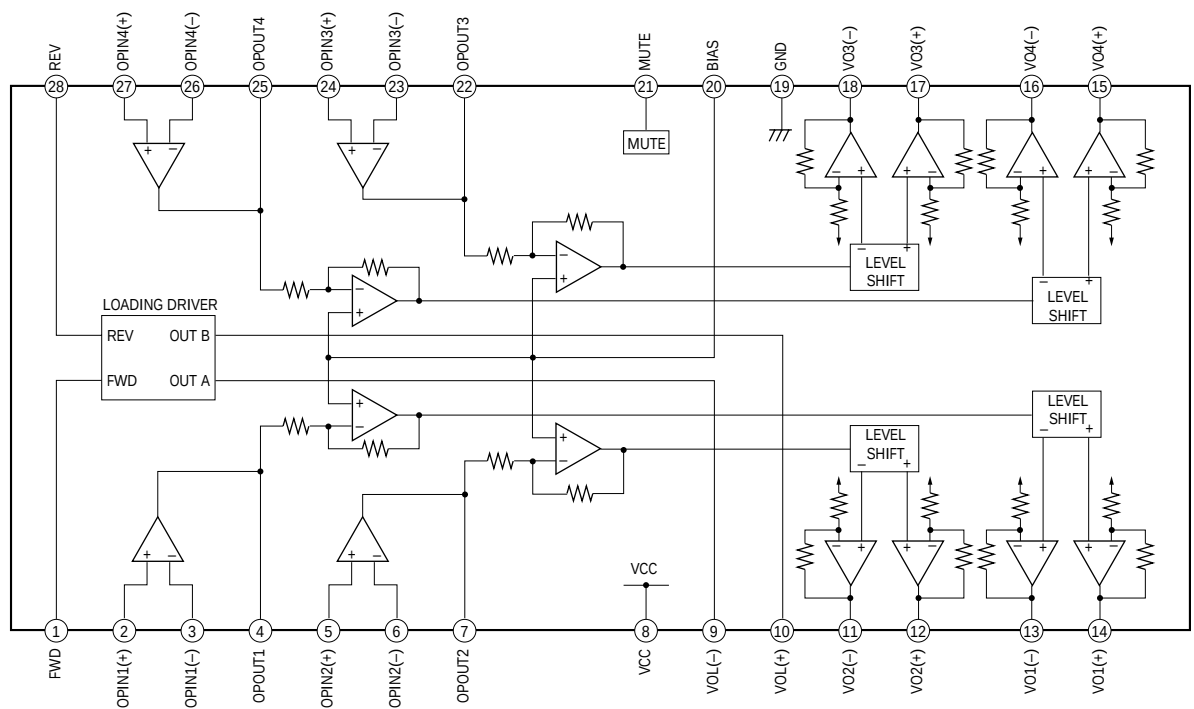


• IC Block Diagrams

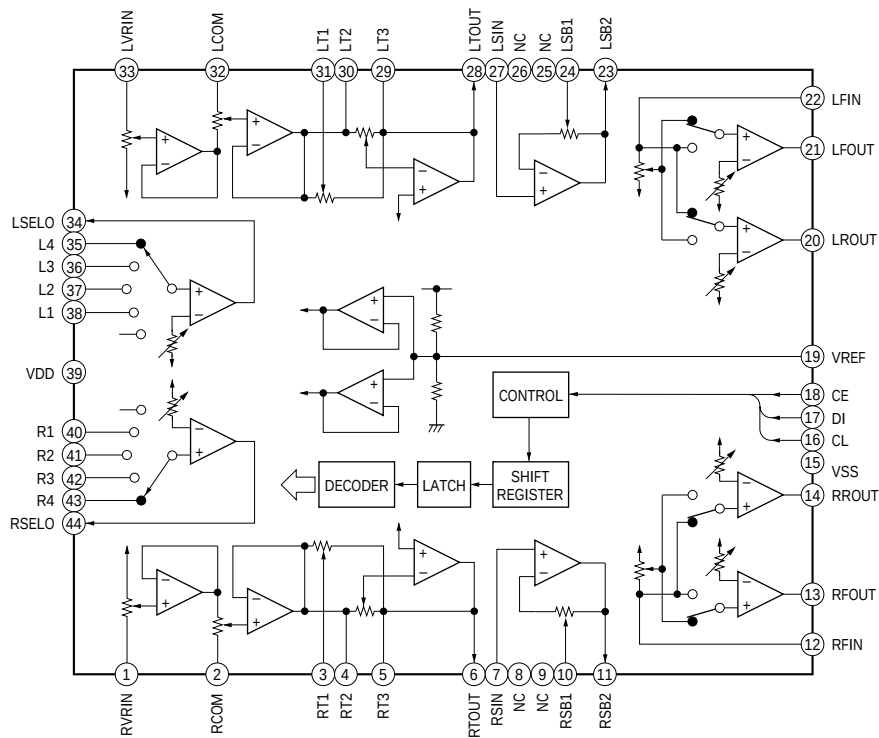
IC102 AN8835SB-E1



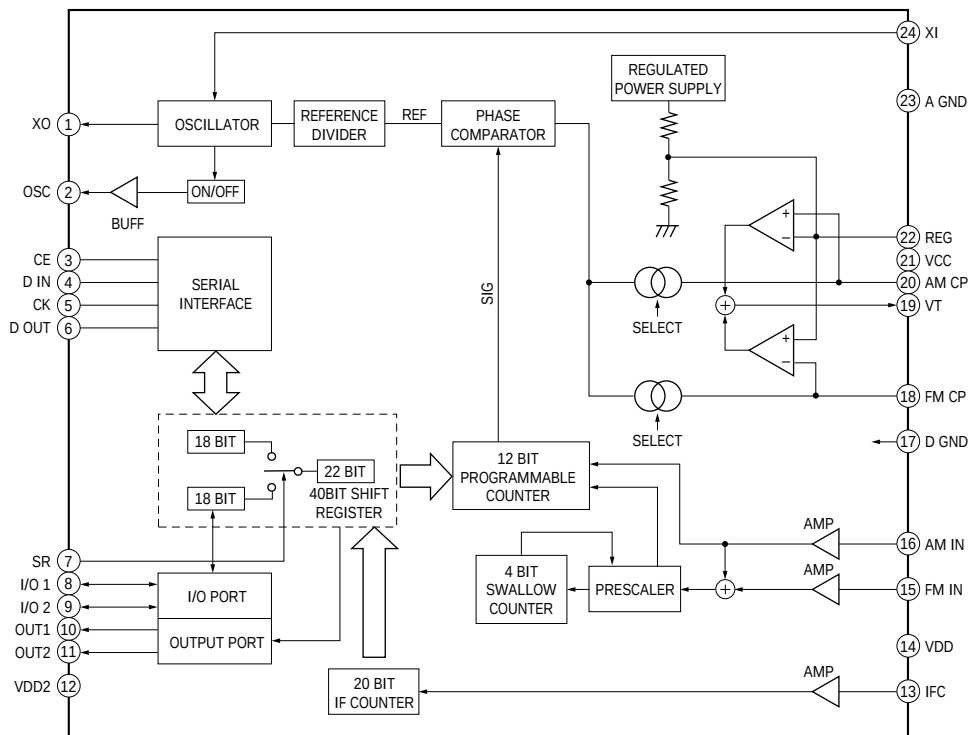
IC103 BA5984FP-E2



IC400 LC75374E



IC700 TB2118F (EL)



SECTION 4

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)

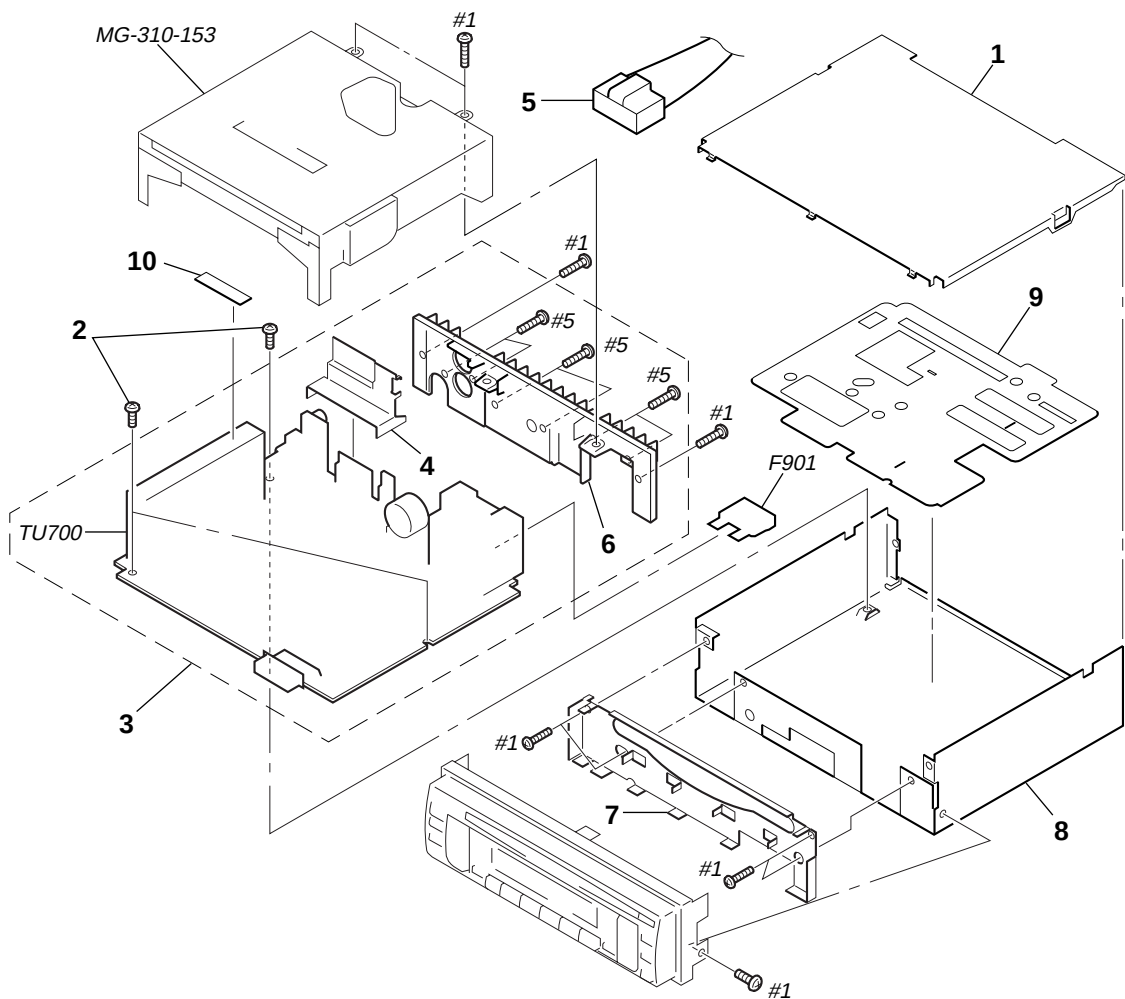
↑
Parts Color

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

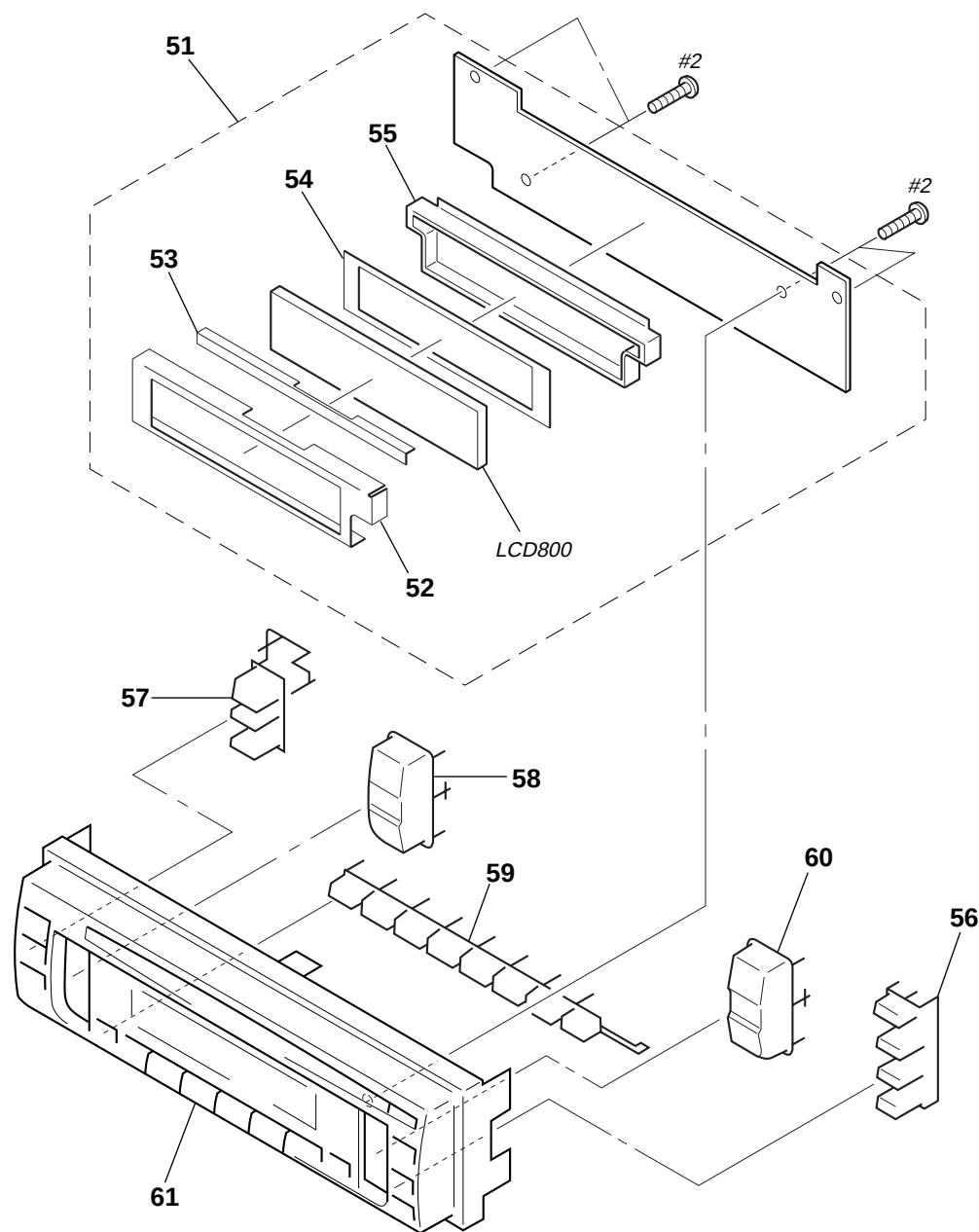
Les composants identifiés par une
marque Δ sont critiques pour
la sécurité.
Ne les remplacer que par une pièce
portant le numéro spécifié.

4-1. CHASSIS SECTION



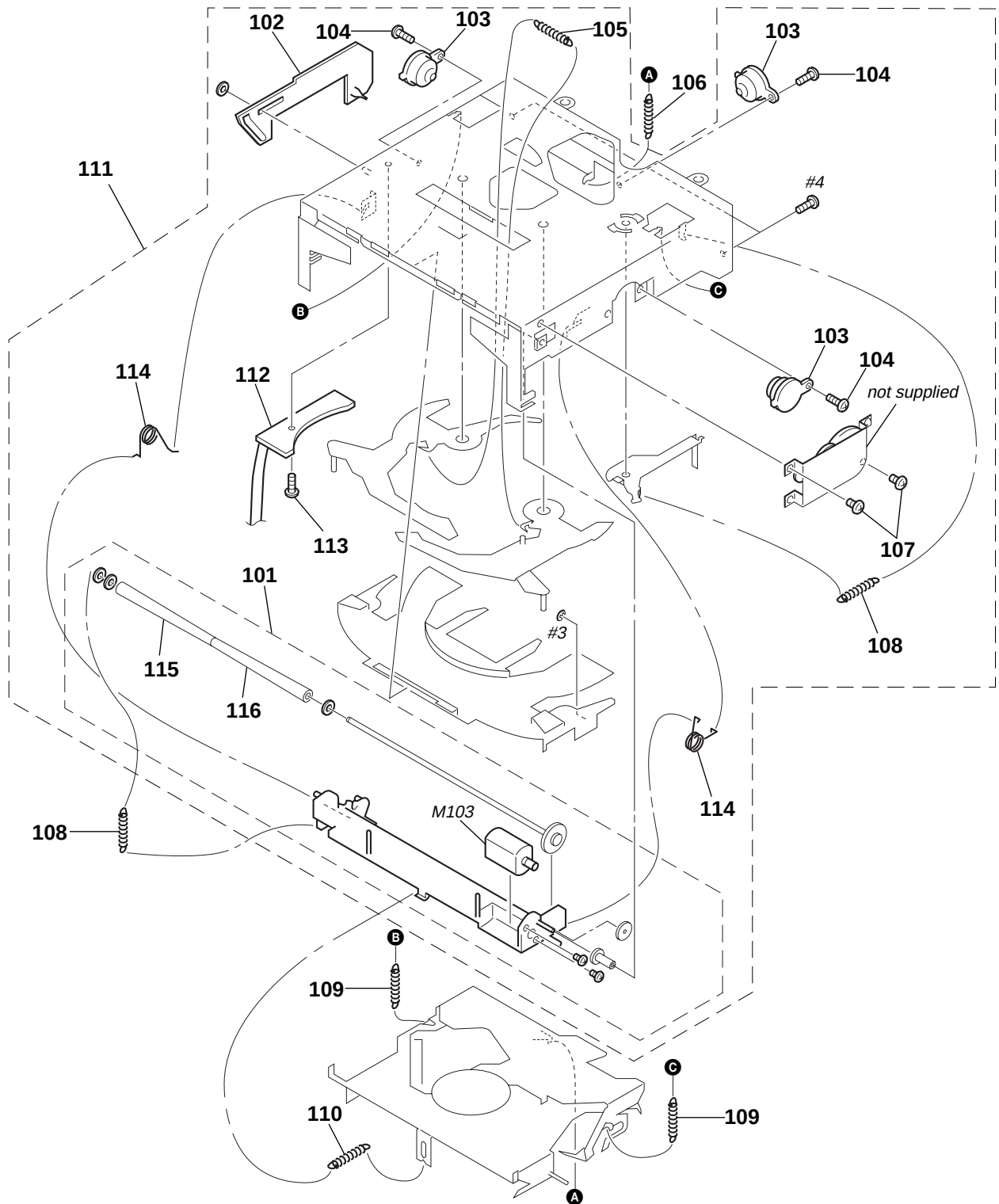
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 1	3-034-437-02	COVER		* 7	3-034-439-02	BRACKET (FRONT)	
2	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT		* 8	3-034-436-03	CHASSIS	
* 3	A-3294-812-A	MAIN BOARD, COMPLETE (1200)		* 9	3-034-455-03	SHEET (INSULATING)	
* 3	A-3294-814-A	MAIN BOARD, COMPLETE (3600)		10	3-360-123-01	PLATE (C), GROUND	
* 4	3-043-234-01	BRACKET (IC)		F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
5	1-792-194-31	CORD (WITH CONNECTOR) (POWER)		TU700	A-3220-689-A	TUNER UNIT (TUX-010/2(E))	
* 6	3-043-233-01	HEAT SINK					

4-2. FRONT PANEL SECTION



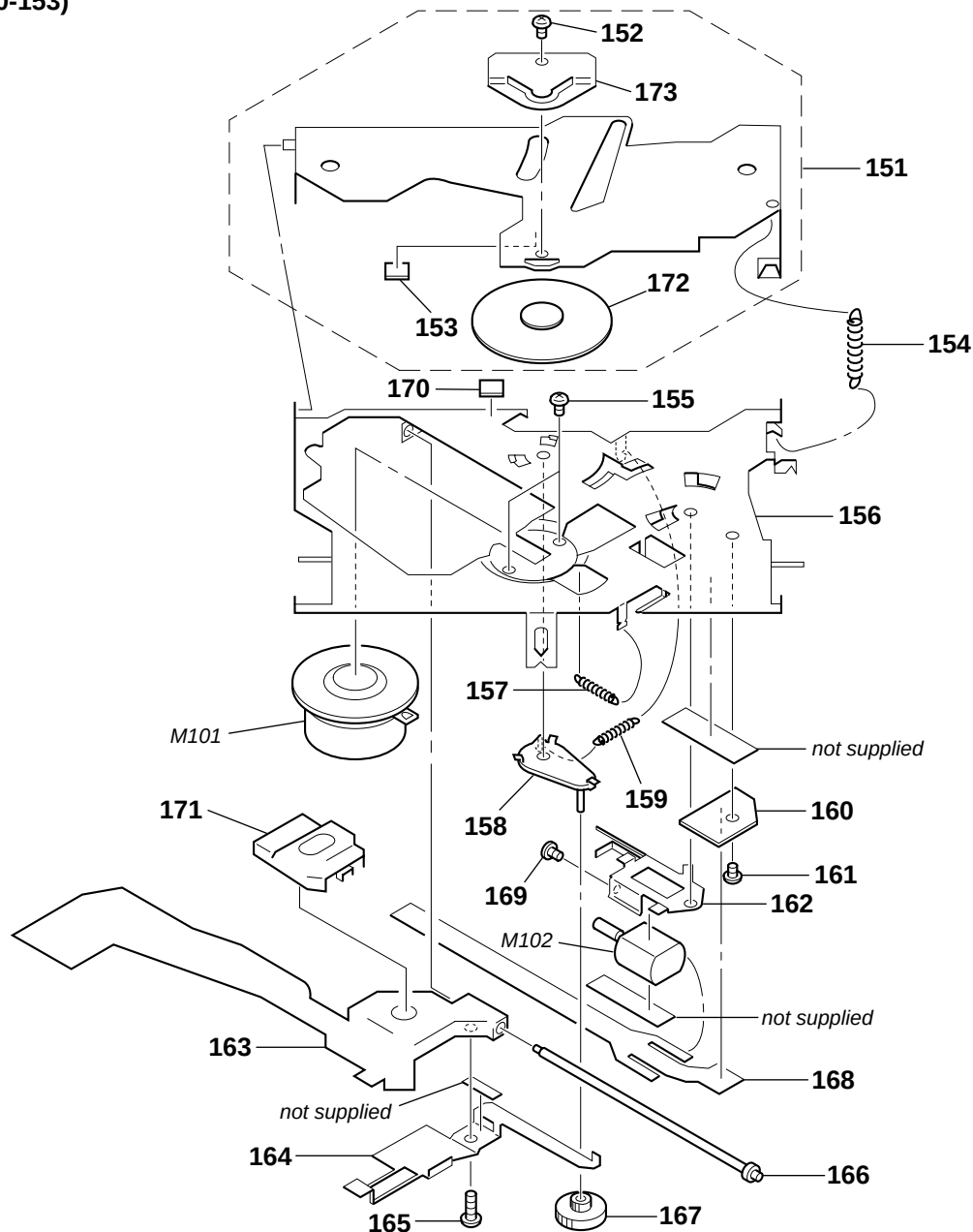
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 51	A-3294-813-A	KEY BOARD, COMPLETE		58	3-034-450-04	BUTTON (+.-)	
* 52	3-034-440-02	PLATE (LCD), GROUND		59	3-034-443-02	BUTTON (6 KEY)	
* 53	3-034-454-01	SHEET (LCD)		60	3-034-451-04	BUTTON (AMS)	
* 54	3-034-453-11	SHEET (DIFFUSION)		61	X-3378-995-1	PANEL ASSY, FRONT (1200)	
* 55	X-3377-104-1	HOLDER (LCD) ASSY		61	X-3378-997-1	PANEL ASSY, FRONT (3600)	
56	3-034-445-11	BUTTON (EJECT)		LCD800	1-803-966-11	DISPLAY PANEL, LIQUID CRYSTAL	
57	3-045-627-01	BUTTON (SOURCE)					

4-3. CD MECHANISM SECTION (1) (MG-310-153)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-3378-793-1	ARM ASSY, ROLLER		110	3-032-352-01	SPRING (ANGLE), TENSION	
* 102	3-032-327-02	LEVER (LE.L)		111	X-3378-335-3	CHASSIS (M) COMPLETE ASSY	
103	3-037-492-01	DAMPER (P)		* 112	1-670-827-11	SW BOARD	
104	3-033-808-01	SCREW (M2X4.0)		113	3-033-807-01	SCREW (M2X3.0)	
105	3-042-644-01	SPRING (LEVER DLR)		114	3-032-359-01	SPRING (ROLLER)	
106	3-032-373-01	SPRING (SPM), TENSION		115	3-039-600-02	ROLLER (SS)	
107	3-033-806-01	SCREW (M2X2.5)		116	3-933-152-02	ROLLER (S)	
108	3-042-642-01	SPRING (LEVER D)		M103	X-3378-888-1	MOTOR ASSY, LOADING (LOADING)	
109	3-032-351-01	SPRING (FL), TENSION					

4-4. CD MECHANISM SECTION (2) (MG-310-153)



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

Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-3301-693-A	ARM ASSY, CHUCKING		164	3-032-345-02	RACK (FEED)	
152	3-033-805-01	SCREW (M2X2.0)		165	3-033-804-01	SCREW (+PTP 1.7X4)	
* 153	3-027-473-01	CUSHION (EJ2)		166	3-032-358-01	SHAFT (SLED GUIDE)	
154	3-032-353-01	SPRING (CH), TENSION		167	3-032-344-01	GEAR (WORM WHEEL)	
155	3-033-803-01	SCREW (M1.7X2.5)		168	1-673-761-11	MOTOR FLEXIBLE BOARD	
* 156	X-3376-720-2	CHASSIS (OP) ASSY		169	3-366-892-01	SCREW (M1.4X1.1)	
157	3-032-373-01	SPRING (SPM), TENSION		* 170	3-037-490-01	CUSHION (DH)	
* 158	X-3376-724-1	LEVER (WORM WHEEL) ASSY		171	3-042-739-01	COVER (P)	
159	3-042-642-01	SPRING (LEVER D)		* 172	3-384-918-01	RETAINER (DISC)	
* 160	1-670-828-11	MOTOR BOARD		173	3-931-894-01	BRACKET (CP)	
161	3-033-807-01	SCREW (M2X3.0)		M101	X-3379-269-1	MOTOR ASSY, SPINDLE (SPINDLE)	
162	3-032-341-01	BRACKET (SL MOTOR)		M102	X-3377-704-1	MOTOR ASSY, SLED (SLED)	
$\triangle$ 163	X-3378-023-1	PICK-UP ASSY, OPTICAL					

SECTION 5 ELECTRICAL PARTS LIST

Ver 1.1 2001. 05

KEY

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.

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-3294-813-A	KEY BOARD, COMPLETE *****		LSW817	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (4)	
				LSW818	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (5)	
				LSW819	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (6)	
*	3-034-440-02	PLATE (LCD), GROUND				< PILOT LAMP >	
*	3-034-453-11	SHEET (DIFFUSION)		PL801	1-517-968-21	LAMP, PILOT	
*	3-034-454-01	SHEET (LCD)		PL802	1-517-968-21	LAMP, PILOT	
		< CAPACITOR >				< RESISTOR >	
C851	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R801	1-216-821-11	METAL CHIP 1K 5% 1/16W	
C853	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V		R802	1-216-823-11	METAL CHIP 1.5K 5% 1/16W	
C854	1-115-412-11	CERAMIC CHIP 680PF 5% 25V		R803	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
		< CONNECTOR >		R804	1-216-827-11	METAL CHIP 3.3K 5% 1/16W	
CN800	1-785-773-21	PIN, CONNECTOR 15P		R805	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
		< DIODE >		R806	1-216-831-11	METAL CHIP 6.8K 5% 1/16W	
D851	8-719-044-91	DIODE HZU4.7B2		R807	1-216-835-11	METAL CHIP 15K 5% 1/16W	
		< IC >		R808	1-216-839-11	METAL CHIP 33K 5% 1/16W	
				R809	1-216-845-11	METAL CHIP 100K 5% 1/16W	
IC800	8-759-330-60	IC LC75822WD		R811	1-216-821-11	METAL CHIP 1K 5% 1/16W	
		< LIQUID CRYSTAL DISPLAY >		R812	1-216-823-11	METAL CHIP 1.5K 5% 1/16W	
LCD800	1-803-966-11	DISPLAY PANEL, LIQUID CRYSTAL		R813	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
		< SWITCH >		R814	1-216-827-11	METAL CHIP 3.3K 5% 1/16W	
LSW800	1-771-206-11	SWITCH, KEY BOARD (WITH LED) (RESET)		R815	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
LSW801	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (OFF)		R816	1-216-831-11	METAL CHIP 6.8K 5% 1/16W	
LSW802	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (SOURCE)		R817	1-216-835-11	METAL CHIP 15K 5% 1/16W	
LSW803	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (MODE)		R818	1-216-839-11	METAL CHIP 33K 5% 1/16W	
LSW804	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (SOUND)		R830	1-216-025-11	RES-CHIP 100 5% 1/10W	
LSW805	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (+)		R831	1-216-025-11	RES-CHIP 100 5% 1/10W	
LSW806	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (-)		R832	1-216-025-11	RES-CHIP 100 5% 1/10W	
LSW807	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (SEEK/AMS ▶▶▶▶▶ +)		R833	1-216-025-11	RES-CHIP 100 5% 1/10W	
LSW808	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (SEEK/AMS ◀◀◀◀◀ -)		R834	1-216-025-11	RES-CHIP 100 5% 1/10W	
LSW809	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (SENS/BTM)		R835	1-216-033-00	METAL CHIP 220 5% 1/10W	
LSW810	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (ATT)		R851	1-216-045-00	METAL CHIP 680 5% 1/10W	
LSW811	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (Δ)		R852	1-216-821-11	METAL CHIP 1K 5% 1/16W	
LSW812	1-762-618-21	SWITCH, KEY BOARD (WITH LED) (D-BASS)		R853	1-218-733-11	METAL CHIP 51K 0.5% 1/16W	
LSW813	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (DSPL)				*****	
LSW814	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (1/REPEAT)					
LSW815	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (2/SHUF)					
LSW816	1-762-619-21	SWITCH, KEY BOARD (WITH LED) (3)					

MAIN

Ref. No.	Part No.	Description				Remark
*	A-3294-812-A	MAIN BOARD, COMPLETE (1200)				
*	A-3294-814-A	MAIN BOARD, COMPLETE (3600)				

*	3-043-233-01	HEAT SINK				
*	3-043-234-01	BRACKET (IC)				
	7-685-794-09	SCREW +PTT 2.6X10 (S)				
		< CAPACITOR >				
C101	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C102	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C103	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C104	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C105	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C106	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C108	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C110	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C111	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C112	1-115-412-11	CERAMIC CHIP	680PF	5%	25V	
C113	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C114	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C115	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C116	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C117	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C118	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C119	1-115-565-11	CERAMIC CHIP	2.2uF	10%	10V	
C120	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	
C121	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	
C122	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C123	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C124	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C127	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C128	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C129	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C131	1-162-979-11	CERAMIC CHIP	0.0027uF	10%	50V	
C132	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C133	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C134	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C135	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C136	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C138	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C139	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C141	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C147	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V	
C148	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C149	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C401	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C402	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C403	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	

Ref. No.	Part No.	Description	Remark			
C404	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C405	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C406	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	
C407	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C408	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C409	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C410	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C411	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C412	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C414	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C415	1-117-681-11	ELECT CHIP	100uF	20%	16V	
C420	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C422	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C424	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	
C425	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C430	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C431	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C432	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C451	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C452	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C453	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C454	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C455	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C456	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	
C457	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C458	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C459	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C460	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C461	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C464	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	
C465	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C470	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C472	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C480	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C481	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C482	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C500	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C501	1-126-768-11	ELECT	2200uF	20%	16V	
C502	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C504	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C505	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C506	1-126-204-11	ELECT CHIP	47uF	20%	16V	
C509	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C510	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C511	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C513	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C516	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C518	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C519	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C520	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C522	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C524	1-117-681-11	ELECT CHIP	100uF	20%	16V	

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
C532	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		CNP400	1-774-698-11	< JACK >				
C533	1-124-779-00	ELECT CHIP	10uF	20%	16V								
C534	1-126-916-11	ELECT	1000uF	20%	6.3V	JACK, PIN 2P (AUDIO OUT REAR)							
C535	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V								
C550	1-165-112-11	CERAMIC CHIP	0.33uF		16V	< DIODE >							
C551	1-117-681-11	ELECT CHIP	100uF	20%	16V		D501	8-719-049-38	DIODE 1N5404TU				
C602	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		D502	8-719-073-01	DIODE MA111-TX				
C603	1-162-916-11	CERAMIC CHIP	12PF	5%	50V		D503	8-719-073-01	DIODE MA111-TX				
C604	1-162-917-11	CERAMIC CHIP	15PF	5%	50V		D504	8-719-019-00	DIODE U1GC44-TE12R				
C606	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		D505	8-719-019-00	DIODE U1GC44-TE12R				
C607	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V		D506	8-719-064-03	DIODE HZU16B2TRF				
C614	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		D507	8-719-977-12	DIODE HZU6.8B3TRF				
C618	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		D508	8-719-422-67	DIODE HZU6.8B1TRF				
C619	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		D509	8-719-975-40	DIODE RB411D-T146				
C628	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		D510	8-719-060-29	DIODE HZU7.5B1TRF				
C707	1-124-779-00	ELECT CHIP	10uF	20%	16V		D511	8-719-073-01	DIODE MA111-TX				
C711	1-162-919-11	CERAMIC CHIP	22PF	5%	50V		D512	8-719-423-07	DIODE HZU10B1TRF				
C717	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D513	8-719-071-72	DIODE HZU8.2B3TRF				
C718	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		D514	8-719-047-98	DIODE HZU5.6B2TRF				
C718	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	(1200)	D516	8-719-019-00	DIODE U1GC44-TE12R				
						(3600)	D517	8-719-019-00	DIODE U1GC44-TE12R				
C719	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	(1200)	D518	8-719-073-01	DIODE MA111-TX				
						(3600)	D519	8-719-073-01	DIODE MA111-TX				
C719	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	(3600)	D520	8-719-053-18	DIODE 1SR154-400TE-25				
							D521	8-719-053-18	DIODE 1SR154-400TE-25				
C720	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		D522	8-719-053-18	DIODE 1SR154-400TE-25				
C721	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		D523	8-719-053-18	DIODE 1SR154-400TE-25				
C724	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		D524	8-719-053-18	DIODE 1SR154-400TE-25				
							D525	8-719-053-18	DIODE 1SR154-400TE-25				
C728	1-164-315-11	CERAMIC CHIP	470PF	5%	50V		D526	8-719-053-18	DIODE 1SR154-400TE-25				
C730	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C731	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V		D527	8-719-053-18	DIODE 1SR154-400TE-25				
C732	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D550	8-719-062-38	DIODE HZU3.92TRF				
C733	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		D551	8-719-073-01	DIODE MA111-TX				
							D602	8-719-914-44	DIODE DAP202K-T-146				
C734	1-162-927-11	CERAMIC CHIP	100PF	5%	50V				< IC >				
C735	1-162-927-11	CERAMIC CHIP	100PF	5%	50V								
C736	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V		IC101	8-759-574-26	IC MN6627481RPMFA				
C737	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V		IC102	8-759-574-25	IC AN8835SB-E1				
C738	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V		IC103	8-759-574-24	IC BA5984FP-E2				
C739	1-109-982-11	CERAMIC CHIP	1uF	10%	10V		IC400	8-759-487-82	IC LC75374E				
C740	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		IC500	8-759-486-44	IC TDA7386				
C741	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C742	1-124-779-00	ELECT CHIP	10uF	20%	16V		IC600	8-759-661-44	IC uPD780058GC-133-8BT				
C743	1-124-779-00	ELECT CHIP	10uF	20%	16V		IC601	8-759-443-41	IC RH5VL40AA-T1C				
							IC700	8-759-586-59	IC TB2118F(EL)				
C744	1-162-911-11	CERAMIC CHIP	6PF	0.5PF	50V				< JACK >				
C745	1-162-911-11	CERAMIC CHIP	6PF	0.5PF	50V								
C746	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V		J701	1-785-503-11	JACK (ANTENNA)				
		< CONNECTOR >							< JUMPER RESISTOR >				
* CN600	1-580-756-21	PIN, CONNECTOR (SMD) 7P											
CN601	1-785-772-31	PLUG, CONNECTOR 15P					JC1	1-216-295-00	SHORT	0			
CNJ102	1-770-646-11	CONNECTOR, FFC/FPC 16P					JC3	1-216-295-00	SHORT	0			
CNJ103	1-770-637-11	CONNECTOR, FFC/FPC 6P					JC5	1-216-295-00	SHORT	0			
CNP500	1-774-701-11	PIN, CONNECTOR 16P					JC6	1-216-295-00	SHORT	0			

MAIN

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
< COIL >													
L501 L601 L728	1-419-476-11	COIL, CHOKE (2000)					R119	1-216-817-11	METAL CHIP	470	5%	1/16W	
	1-412-058-11	INDUCTOR CHIP 10uH					R120	1-216-845-11	METAL CHIP	100K	5%	1/16W	
	1-410-989-11	INDUCTOR CHIP 0.47uH					R121	1-216-001-00	METAL CHIP	10	5%	1/10W	
							R122	1-216-836-11	METAL CHIP	18K	5%	1/16W	
							R123	1-216-840-11	METAL CHIP	39K	5%	1/16W	
< TRANSISTOR >													
Q101 Q401 Q402 Q403 Q501	8-729-141-48	TRANSISTOR 2SB624T1-BV345					R124	1-216-848-11	METAL CHIP	180K	5%	1/16W	
	8-729-047-71	TRANSISTOR FMG12-T-148					R125	1-216-849-11	METAL CHIP	220K	5%	1/16W	
	8-729-047-71	TRANSISTOR FMG12-T-148					R126	1-216-001-00	METAL CHIP	10	5%	1/10W	
	8-729-047-71	TRANSISTOR FMG12-T-148					R127	1-216-001-00	METAL CHIP	10	5%	1/10W	
Q502	8-729-922-47	TRANSISTOR 2SB1184-TLR					R128	1-216-308-00	METAL CHIP	4.7	5%	1/10W	
Q503 Q504 Q505 Q507	8-729-429-92	TRANSISTOR XN1211-TX					R129	1-216-013-00	METAL CHIP	33	5%	1/10W	
	8-729-922-47	TRANSISTOR 2SB1184-TLR					R130	1-216-845-11	METAL CHIP	100K	5%	1/16W	
	8-729-402-13	TRANSISTOR XN1501-TX					R131	1-216-001-00	METAL CHIP	10	5%	1/10W	
	8-729-922-47	TRANSISTOR 2SB1184-TLR					R132	1-216-308-00	METAL CHIP	4.7	5%	1/10W	
Q509	8-729-921-49	TRANSISTOR 2SD1760F5-TLR					R133	1-216-833-11	RES-CHIP	10K	5%	1/16W	
Q510	8-729-900-53	TRANSISTOR DTC114EKA-T146					R134	1-216-841-11	METAL CHIP	47K	5%	1/16W	
Q511	8-729-921-49	TRANSISTOR 2SD1760F5-TLR					R135	1-216-833-11	RES-CHIP	10K	5%	1/16W	
Q512	8-729-020-67	TRANSISTOR XN1A312-TX					R136	1-216-845-11	METAL CHIP	100K	5%	1/16W	
Q513	8-729-019-00	TRANSISTOR 2SD2394-G					R137	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
Q514 Q515 Q516 Q517 Q550	8-729-020-67	TRANSISTOR XN1A312-TX					R138	1-216-833-11	RES-CHIP	10K	5%	1/16W	
	8-729-921-49	TRANSISTOR 2SD1760F5-TLR					R139	1-216-849-11	METAL CHIP	220K	5%	1/16W	
	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR					R144	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR					R145	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
Q551	8-729-920-21	TRANSISTOR DTC314TK-T-146					R146	1-216-833-11	RES-CHIP	10K	5%	1/16W	
Q601 Q701 Q702 Q703	8-729-027-38	TRANSISTOR DTA144EKA-T146					R148	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	
	8-729-027-23	TRANSISTOR DTA114EKA-T146					R149	1-216-833-11	RES-CHIP	10K	5%	1/16W	
	8-729-020-67	TRANSISTOR XN1A312-TX					R150	1-216-849-11	METAL CHIP	220K	5%	1/16W	
	8-729-020-67	TRANSISTOR XN1A312-TX					R201	1-216-013-00	METAL CHIP	33	5%	1/10W	
Q704	8-729-106-60	TRANSISTOR 2SB1132-T101-QR					R401	1-220-158-11	RES-CHIP	3.6K	5%	1/16W	
Q705	8-729-900-53	TRANSISTOR DTC114EKA-T146					R402	1-216-150-11	RES-CHIP	10	5%	1/8W	
< RESISTOR >													
R101	1-216-009-11	RES-CHIP 22	5%	1/10W		R406	1-216-837-11	METAL CHIP	22K	5%	1/16W		
R102	1-216-843-11	METAL CHIP 68K	5%	1/16W		R420	1-216-837-11	METAL CHIP	22K	5%	1/16W		
R103	1-216-833-11	RES-CHIP 10K	5%	1/16W		R421	1-216-813-11	METAL CHIP	220	5%	1/16W		
R104	1-216-833-11	RES-CHIP 10K	5%	1/16W		R422	1-216-839-11	METAL CHIP	33K	5%	1/16W		
R105	1-216-841-11	METAL CHIP 47K	5%	1/16W		R423	1-216-861-11	METAL CHIP	2.2M	5%	1/16W		
R106	1-216-864-11	METAL CHIP 0	5%	1/16W		R433	1-216-861-11	METAL CHIP	2.2M	5%	1/16W		
R107	1-216-833-11	RES-CHIP 10K	5%	1/16W		R451	1-220-158-11	RES-CHIP	3.6K	5%	1/16W		
R108	1-216-845-11	METAL CHIP 100K	5%	1/16W		R456	1-216-837-11	METAL CHIP	22K	5%	1/16W		
R109	1-216-833-11	RES-CHIP 10K	5%	1/16W		R470	1-216-837-11	METAL CHIP	22K	5%	1/16W		
R110	1-216-833-11	RES-CHIP 10K	5%	1/16W		R471	1-216-813-11	METAL CHIP	220	5%	1/16W		
R111	1-216-833-11	RES-CHIP 10K	5%	1/16W		R472	1-216-839-11	METAL CHIP	33K	5%	1/16W		
R112	1-216-833-11	RES-CHIP 10K	5%	1/16W		R473	1-216-861-11	METAL CHIP	2.2M	5%	1/16W		
R113	1-216-833-11	RES-CHIP 10K	5%	1/16W		R480	1-216-837-11	METAL CHIP	22K	5%	1/16W		
R114	1-216-821-11	METAL CHIP 1K	5%	1/16W		R481	1-216-813-11	METAL CHIP	220	5%	1/16W		
R115	1-216-821-11	METAL CHIP 1K	5%	1/16W		R482	1-216-839-11	METAL CHIP	33K	5%	1/16W		
R116	1-216-847-11	METAL CHIP 150K	5%	1/16W		R483	1-216-861-11	METAL CHIP	2.2M	5%	1/16W		
R117	1-216-839-11	METAL CHIP 33K	5%	1/16W		R484	1-216-813-11	METAL CHIP	220	5%	1/16W		
						R485	1-216-837-11	METAL CHIP	22K	5%	1/16W		

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R501	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R701	1-216-833-11	RES-CHIP	10K	5%	1/16W
R502	1-216-833-11	RES-CHIP	10K	5%	1/16W	R702	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R503	1-218-740-11	METAL CHIP	100K	0.5%	1/16W	R703	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R504	1-216-845-11	METAL CHIP	100K	5%	1/16W	R709	1-216-049-11	RES-CHIP	1K	5%	1/10W
R505	1-216-821-11	METAL CHIP	1K	5%	1/16W	R710	1-216-049-11	RES-CHIP	1K	5%	1/10W
R506	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R711	1-216-833-11	RES-CHIP	10K	5%	1/16W
R507	1-216-821-11	METAL CHIP	1K	5%	1/16W	R712	1-216-821-11	METAL CHIP	1K	5%	1/16W
R508	1-216-817-11	METAL CHIP	470	5%	1/16W	R713	1-216-811-11	METAL CHIP	150	5%	1/16W
R509	1-216-805-11	METAL CHIP	47	5%	1/16W	R714	1-216-835-11	METAL CHIP	15K	5%	1/16W
R510	1-216-845-11	METAL CHIP	100K	5%	1/16W	R721	1-216-841-11	METAL CHIP	47K	5%	1/16W
R511	1-216-833-11	RES-CHIP	10K	5%	1/16W	R723	1-216-845-11	METAL CHIP	100K	5%	1/16W
R512	1-216-833-11	RES-CHIP	10K	5%	1/16W	R724	1-216-851-11	METAL CHIP	330K	5%	1/16W
R513	1-216-841-11	METAL CHIP	47K	5%	1/16W	R725	1-216-855-11	METAL CHIP	680K	5%	1/16W
R514	1-216-845-11	METAL CHIP	100K	5%	1/16W	R726	1-216-864-11	METAL CHIP	0	5%	1/16W
R515	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R730	1-216-821-11	METAL CHIP	1K	5%	1/16W
R516	1-216-821-11	METAL CHIP	1K	5%	1/16W	R731	1-216-833-11	RES-CHIP	10K	5%	1/16W
R517	1-216-821-11	METAL CHIP	1K	5%	1/16W	R732	1-216-834-11	METAL CHIP	12K	5%	1/16W
R518	1-216-859-11	RES-CHIP	1.5M	5%	1/16W	R733	1-216-834-11	METAL CHIP	12K	5%	1/16W
R519	1-216-833-11	RES-CHIP	10K	5%	1/16W	R734	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R520	1-216-817-11	METAL CHIP	470	5%	1/16W	R735	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R521	1-216-833-11	RES-CHIP	10K	5%	1/16W	R736	1-216-809-11	METAL CHIP	100	5%	1/16W
R522	1-216-841-11	METAL CHIP	47K	5%	1/16W	< NETWORK RESISTOR >					
R524	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	RB501	1-233-412-11	RES, CHIP NETWORK	1.0K (3216)		
R525	1-216-837-11	METAL CHIP	22K	5%	1/16W	RB601	1-233-412-11	RES, CHIP NETWORK	1.0K (3216)		
R526	1-216-210-00	RES-CHIP	3.3K	5%	1/8W	RB602	1-233-810-21	RES, CHIP NETWORK	100K (3216)		
R527	1-216-821-11	METAL CHIP	1K	5%	1/16W	RB603	1-233-412-11	RES, CHIP NETWORK	1.0K (3216)		
R528	1-216-210-00	RES-CHIP	3.3K	5%	1/8W	RB604	1-233-412-11	RES, CHIP NETWORK	1.0K (3216)		
R529	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	< SWITCH >					
R530	1-216-206-00	RES-CHIP	2.2K	5%	1/8W	S602	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT) (3600)			
R531	1-216-206-00	RES-CHIP	2.2K	5%	1/8W	< THERMISTOR (POSITIVE) >					
R532	1-216-206-00	RES-CHIP	2.2K	5%	1/8W	TH501	1-803-615-21	THERMISTOR, POSITIVE			
R533	1-216-206-00	RES-CHIP	2.2K	5%	1/8W	TH502	1-803-615-21	THERMISTOR, POSITIVE			
R550	1-216-821-11	METAL CHIP	1K	5%	1/16W	< TUNER >					
R601	1-216-853-11	METAL CHIP	470K	5%	1/16W	TU700	A-3220-689-A	TUNER UNIT (TUX-010/2(E))			
R602	1-216-295-00	SHORT	0			< VIBRATOR >					
R603	1-216-845-11	METAL CHIP	100K	5%	1/16W	X100	1-767-621-11	VIBRATOR, CERAMIC (16.93MHz)			
R604	1-216-809-11	METAL CHIP	100	5%	1/16W	X600	1-781-383-21	VIBRATOR, CERAMIC (5MHz)			
R605	1-216-809-11	METAL CHIP	100	5%	1/16W	X601	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
R606	1-216-845-11	METAL CHIP	100K	5%	1/16W	X700	1-781-258-11	VIBRATOR, CRYSTAL (10.25MHz)			
R607	1-216-845-11	METAL CHIP	100K	5%	1/16W	*****					
R609	1-216-864-11	METAL CHIP	0	5%	1/16W	* 1-670-828-11	MOTOR BOARD				
R611	1-216-821-11	METAL CHIP	1K	5%	1/16W	*****					
R612	1-216-821-11	METAL CHIP	1K	5%	1/16W	< SWITCH >					
R613	1-216-821-11	METAL CHIP	1K	5%	1/16W	SW5	1-762-946-12	SWITCH, PUSH (1 KEY) (LIMIT)			
R617	1-216-833-11	RES-CHIP	10K	5%	1/16W	*****					
R618	1-216-833-11	RES-CHIP	10K	5%	1/16W						
R619	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R621	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R623	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R624	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R629	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R630	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R633	1-216-864-11	METAL CHIP	0	5%	1/16W						

SW

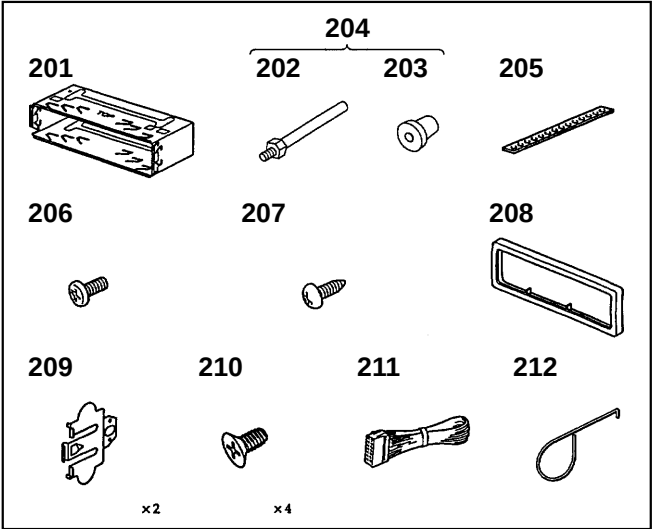
Ref. No.	Part No.	Description	Remark
*	1-670-827-11	SW BOARD *****	
		< SWITCH >	
SW2	1-762-946-12	SWITCH, PUSH (1 KEY) (DISC IN 1)	
SW3	1-762-946-12	SWITCH, PUSH (1 KEY) (DISC IN 2)	
SW4	1-762-946-12	SWITCH, PUSH (1 KEY) (CHUCKING DET)	

		MISCELLANEOUS *****	
5	1-792-194-31	CORD (WITH CONNECTOR) (POWER)	
△ 163	X-3378-023-1	PICK-UP ASSY, OPTICAL	
168	1-673-761-11	MOTOR FLEXIBLE BOARD	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
M101	X-3379-269-1	MOTOR ASSY, SPINDLE (SPINDLE)	
M102	X-3377-704-1	MOTOR ASSY, SLED (SLED)	
M103	X-3378-888-1	MOTOR ASSY, LOADING (LOADING)	

		ACCESSORIES & PACKING MATERIALS *****	
3-043-462-11		MANUAL, INSTRUCTION (ENGLISH) (1200)	
3-043-462-21		MANUAL, INSTRUCTION (ENGLISH,SPANISH, TRADITIONAL CHINESE) (3600)	
3-043-463-11		MANUAL, INSTRUCTION, INSTALL (ENGLISH) (1200)	
3-043-463-21		MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,TRADITIONAL CHINESE) (3600)	

		HARDWARE LIST *****	
#1	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#2	7-685-105-19	SCREW +P 2X8 TYPE 2 NON-SLIT	
#3	7-624-101-04	STOP RING 1.2 (E TYPE)	
#4	7-685-780-01	SCREW +PTT 2X3 (S)	
#5	7-685-794-09	SCREW +PTT 2.6X10 (S)	

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS *****	
201	3-009-613-21	FRAME	
202	3-386-828-01	SCREW, FITTING (3600)	
203	3-349-410-01	BUSHING (3600)	
204	X-3366-405-1	SCREW ASSY (EXP), FITTING (3600)	
205	3-924-961-01	SUPPORT (ND), FITTING (1200)	
206	7-682-160-01	SCREW +P 4X6 (1200)	
207	3-915-917-01	SCREW (4X12), +T (1200)	
208	3-034-435-01	COLLAR	
209	3-027-138-01	SPRING, FITTING	
210	3-934-325-01	SCREW, +K (5X8) TAPPING	
211	1-792-194-31	CORD (WITH CONNECTOR) (POWER)	
212	3-702-658-01	TOOL (REMOVE)	



The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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CDX-1200/3600

SONY

SERVICE MANUAL

US Model
Canadian Model
CDX-1200
E Model
CDX-3600

SUPPLEMENT-1

File this supplement with the service manual.

Subject : Change of Power AMP IC (IC500)

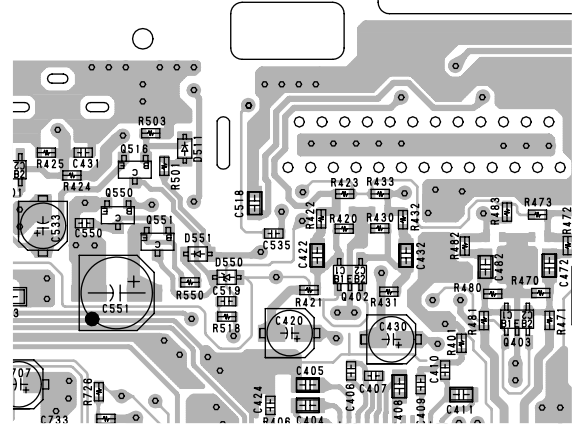
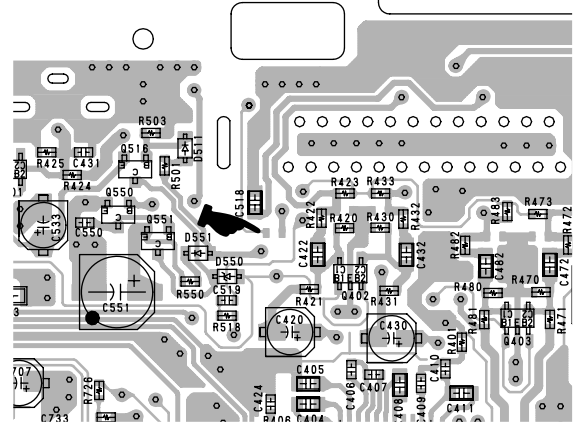
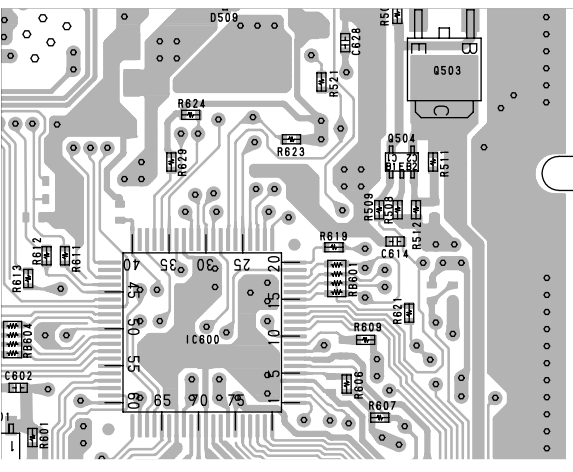
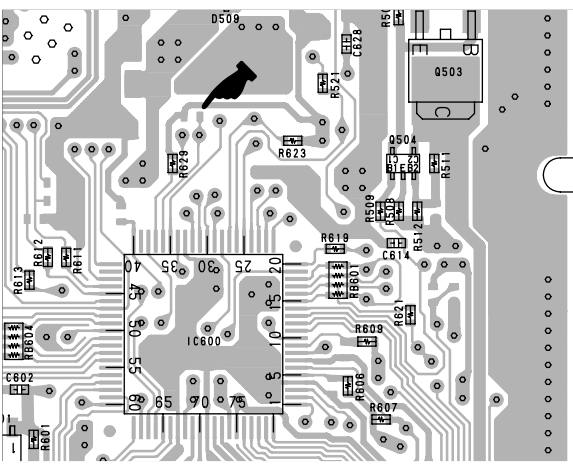
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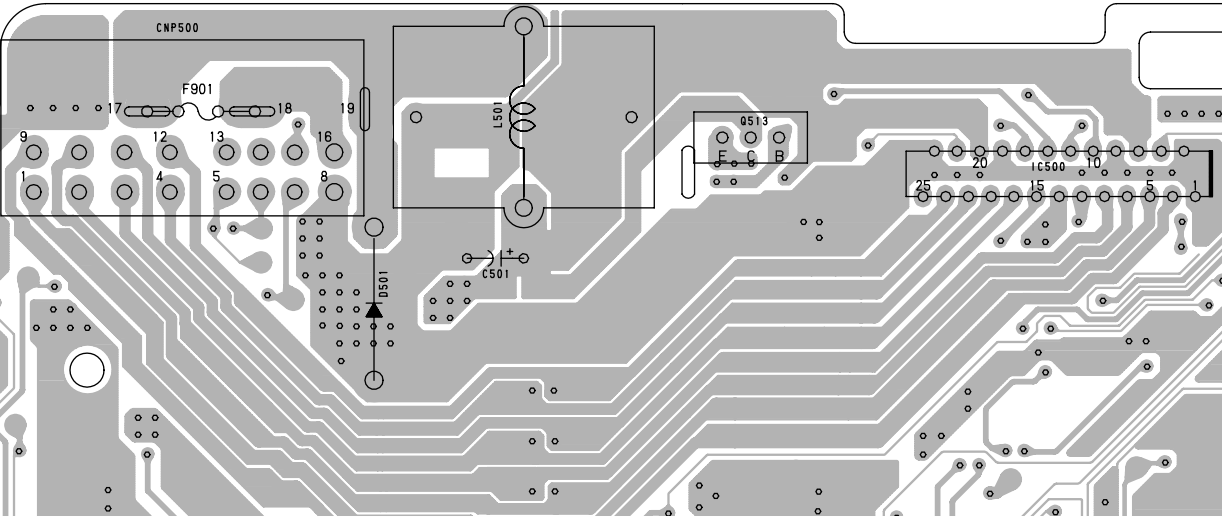
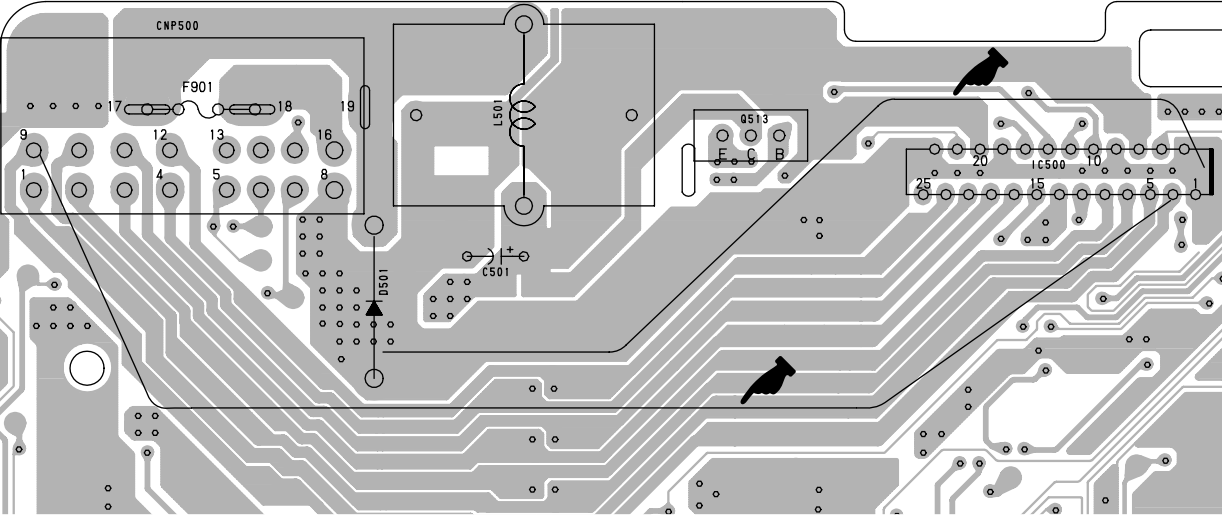
The power amplifier IC (IC500) is changed from TDA7386 to TA8268H.
When servicing or checking the set, check the description of the power amplifier IC.

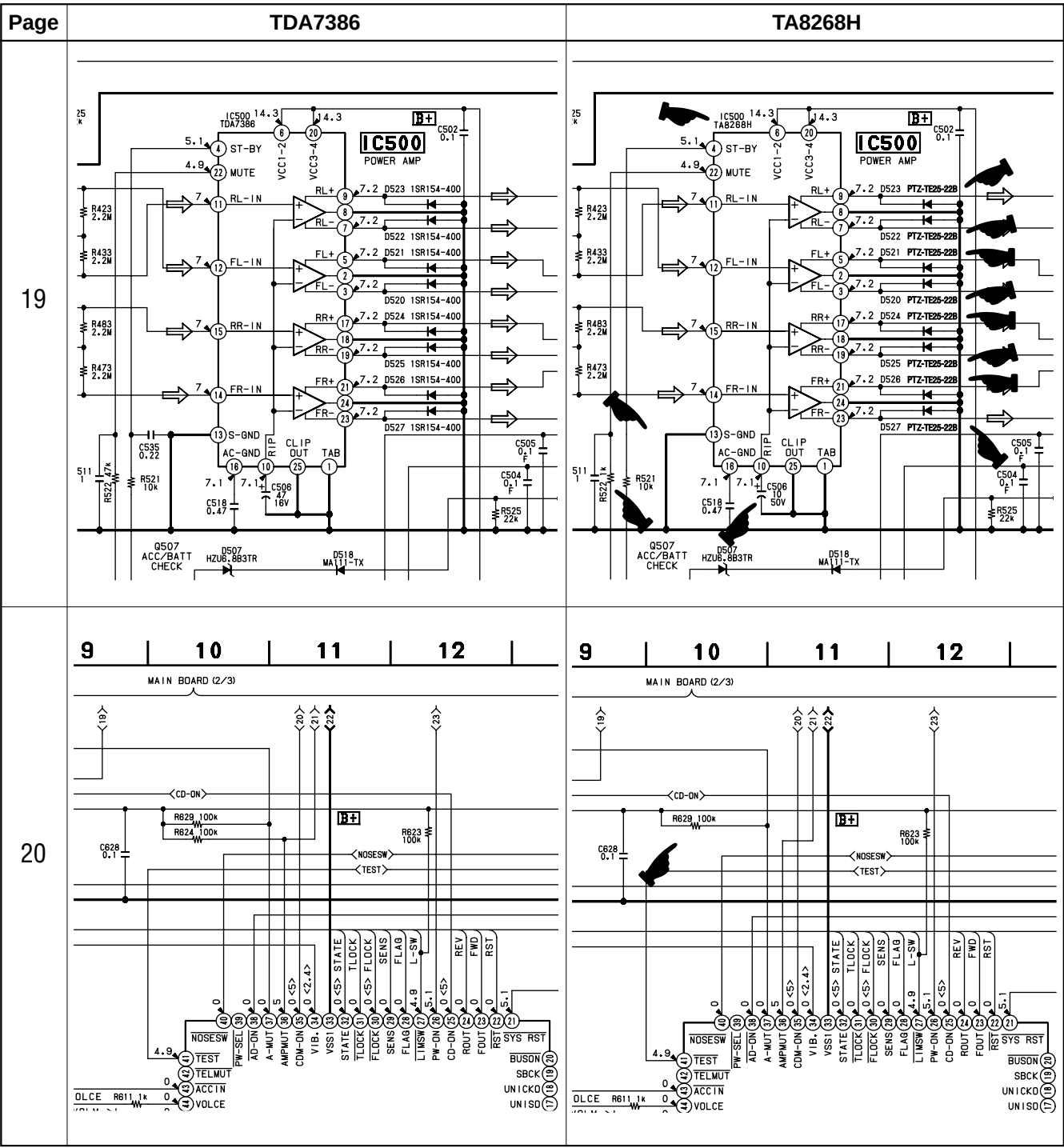
DIFFERENCE PARTS LIST

Page	TDA7386						TA8268H			
	Ref. No.	Part No.	Description			Remark	Part No.	Description		Remark
30	C506	1-126-204-11	ELECT CHIP	47uF	20%	16V	1-126-197-11	ELECT CHIP	10uF	20% 50V
31	C535	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V				
	D520	8-719-053-18	DIODE 1SR154-400TE-25				8-719-079-29	DIODE PTZ-TE25-22B		
	D521	8-719-053-18	DIODE 1SR154-400TE-25				8-719-079-29	DIODE PTZ-TE25-22B		
	D522	8-719-053-18	DIODE 1SR154-400TE-25				8-719-079-29	DIODE PTZ-TE25-22B		
	D523	8-719-053-18	DIODE 1SR154-400TE-25				8-719-079-29	DIODE PTZ-TE25-22B		
	D524	8-719-053-18	DIODE 1SR154-400TE-25				8-719-079-29	DIODE PTZ-TE25-22B		
	D525	8-719-053-18	DIODE 1SR154-400TE-25				8-719-079-29	DIODE PTZ-TE25-22B		
	D526	8-719-053-18	DIODE 1SR154-400TE-25				8-719-079-29	DIODE PTZ-TE25-22B		
	D527	8-719-053-18	DIODE 1SR154-400TE-25				8-719-079-29	DIODE PTZ-TE25-22B		
	IC500	8-759-486-44	IC TDA7386				8-759-663-88	IC TA8268H		
33	R522	1-216-841-11	METAL CHIP	47K	5%	1/16W	1-216-821-11	METAL CHIP	1K	5% 1/16W
	R624	1-216-845-11	METAL CHIP	100K	10%	1/16W				

 : indicates difference portion.

Page	TDA7386	TA8268H
16	(SIDE A) 	(SIDE A) 
		

Page	TDA7386
	↓ 【MAIN BOARD】 (SIDE B) 
17	↓ 【MAIN BOARD】 (SIDE B) 



MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

[illegible]