

# MHC-GN900

## MANUAL DE SERVIÇO

Brazilian Model



Seção CD	Modelo que usa mecanismo similar	NOVO
	Tipo do Mecanismo do CD	CDM74-K6BD47S
	Tipo de unidade base	BU-K6BD47S
	Mecanismo de unidade ótica	KSM-213DCP
Seção Fita	Modelo que usa mecanismo similar	MHC-RG550
	Tipo de mecanismo da fita	CWM43RR01

### ESPECIFICAÇÕES

#### Amplificador

Potência de Saída RMS 275 + 275 watts  
(4 ohms a 1 kHz, 10%THD)

Potência de Saída PMPO 6000W

#### Entradas

GAME (VIDEO): 1 Vp-p, 75 ohms  
(tomada RCA)

GAME (AUDIO): Sensibilidade 250 mV,  
(tomada RCA) impedância 47 kilohms

MD/VIDEO (AUDIO) IN: Sensibilidade 450 mV/250 mV,  
(tomada RCA) impedância 47 kilohms

MIC: Sensibilidade 1 mV,  
(tomada RCA) impedância 10 kilohms

#### Saídas

VIDEO OUT: nível máx. de saída 1 Vp-p,  
(tomada RCA) não balanceado, Sync.negativo  
impedância de carga de 75 ohms

PHONES: aceita fone de ouvido de  
(minitomada estéreo) 8 ohms ou mais

FRONT SPEAKER: aceita impedância de 4 a  
16 ohms

#### Reprodutor de CDs

Sistema Sistema de áudio digital de disco compacto.

Laser Laser semiconductor  
( $\lambda=795\text{nm}$ )

Duração da emissão: Contínua

Resposta de Freqüência 2 Hz – 20 kHz ( $\pm 0.5$  dB)

Comprimento de onda 795 nm

Relação Sinal-Ruído Maior que 90 dB

Faixa Dinâmica Maior que 90 dB

#### CD OPTICAL DIGITAL OUT

(tomada de conector quadrado no painel traseiro)

Comprimento de Onda 660 nm

Nível de saída -18 dBm

#### Reprodutor de Fitas

Sistema de Gravação 4-pistas 2 canais estéreo

Resposta de Freqüência 50 – 13,000 Hz ( $\pm 3$  dB),  
utilizando fita cassette  
Sony tipo I (normal)

Wow e flutter Menor que 0,2% W. RMS (DIN)

– Continua na próxima página –

## SISTEMA COMPACTO DE SOM

**Game SYNC**  
M I X I N G

**SONY**®

# MHC-GN900

## Rádio

FM estéreo, sintonizador super-heteródino de FM/AM

### Sintonizador FM

Faixa de Sintonização 87.5 – 108.0 MHz  
Antena Antena monofilar de FM  
Terminais de Antena 75 ohms, não balanceado  
Frequência Intermediária 10.7 MHz

### Sintonizador AM

Faixa de Sintonização 530 – 1,710 kHz  
(com intervalo de frequência ajustado em 10kHz)  
Antena Antena Loop de AM  
Terminal de Antena Terminal da antena externa  
Frequência Intermediária 450 kHz

### Geral

Alimentação 127 V / 220 V CA, 60 Hz  
Ajustável com seletor de voltagem  
Consumo 345 watts  
Dimensões (LxAxP) Aprox. 280 × 360 × 386,5 mm  
Peso Aprox. 12,3 kg

Acessórios Fornecidos Controle Remoto  
RM-SR211 (1)  
Pilhas tipo AA (2)  
Antena Loop de AM(1)  
Antena monofilar de FM (1)  
Pés de apoio para as caixas acústicas (8)

### Caixas acústicas (SS-GN900)

Sistema 2 vias, 3 unidades, tipo bass-reflex  
Unidades de Alto-falantes  
Woofer: 16 cm, tipo cone  
Tweeter: 2,5 cm, tipo corneta  
Impedância Nominal 4 ohms  
Dimensões (LxAxP) Aprox. 526 × 291 × 331 mm  
Peso Aprox. 9,2 kg cada caixa

Projeto e especificações técnicas sujeitos a alteração sem prévio aviso.

### Notas sobre substituição de componentes tipo chip

- Nunca reutilize um componente tipo chip.
- Informamos que os capacitores eletrolíticos de tântalo podem ser danificados se expostos a altas temperaturas.

### Notas sobre o reparo da placa de circuito impresso flexível

- Mantenha a temperatura do ferro de solda por volta de 270 °C durante o reparo.
- Não ressolde componentes em um mesmo ponto da placa mais de três vezes.
- Tenha cuidado para não forçar os condutores (trilhas) da placa durante o processo de soldagem e dessoldagem.

#### Atenção

O uso dos controles, ajustes ou execução de procedimentos que não sejam os descritos nesse manual, podem causar exposição a uma perigosa radiação.

### ATENÇÃO COM OS COMPONENTES DE SEGURANÇA !

OS COMPONENTES IDENTIFICADOS COM A MARCA  $\Delta$  NOS DIAGRAMAS ESQUEMÁTICOS E NA LISTA DE PEÇAS SÃO CRÍTICOS PARA A SEGURANÇA. SOMENTE OS SUBSTITUA POR PEÇAS NUMERICAMENTE IDENTIFICADAS NESSE MANUAL OU EM SUPLEMENTOS PUBLICADOS PELA SONY.

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**SEÇÃO 1**  
**NOTAS DE SERVIÇO**

**NOTAS SOBRE O MANUSEIO DA UNIDADE ÓTICA**

O diodo laser da unidade óptica é sensível a descargas eletroestáticas podendo ser danificado por descargas causadas por roupas ou mesmo pelo corpo humano. Durante o reparo tenha cuidado para não causar danos a unidade, devido a descargas eletroestáticas e siga corretamente os procedimentos descritos nesse manual para a execução de reparos e troca de componentes. As placas de circuito impresso são facilmente danificadas, tenha muito cuidado para manuseá-las.

**NOTAS SOBRE O DIODO EMISSOR DE LASER**

O feixe laser nesse modelo é concentrado e deve ser focado na superfície reflexiva do disco, pela lente objetiva da unidade óptica. Quando observar a emissão do diodo laser, tome o cuidado de estar no mínimo a 30 cm da lente objetiva.

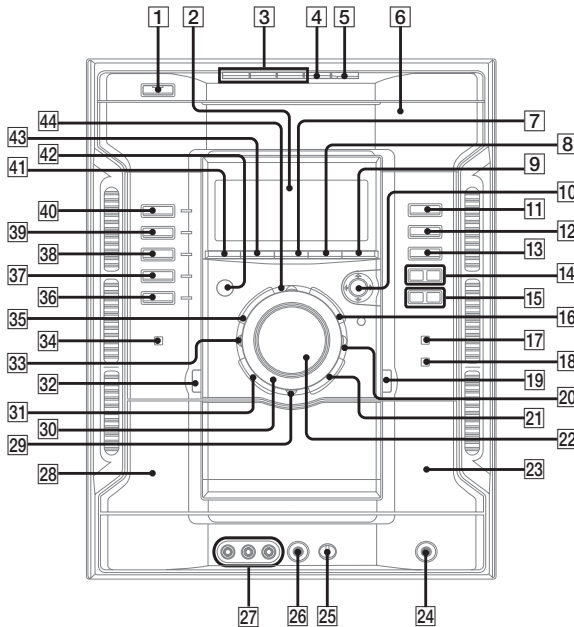

# SEÇÃO 1 - GERAL

## Localização e Função dos Controles

### Aparelho

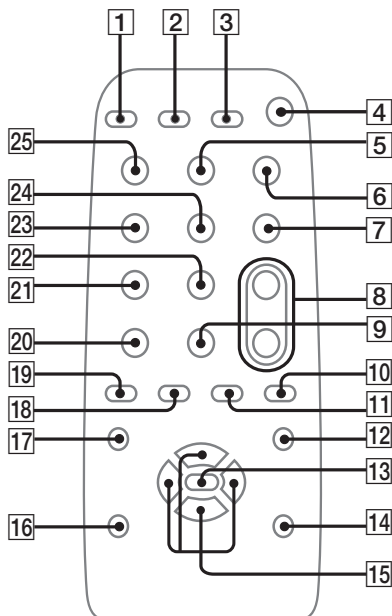
Veja as páginas entre parênteses “(...)” ,no maual de instruções, para mais informações.

- |  |   |                                     |
|--|---|-------------------------------------|
| <b>1</b> Tecla I/⏻ (power)   | <b>12</b> Tecla ■ (parada)                      | <b>27</b> Tomadas GAME INPUT (26)   |
| <b>2</b> Visor de informações  | <b>13</b> Tecla    (pausa)                      | <b>28</b> DECK A (22~26)            |
| <b>3</b> Teclas DISC 1 ~ 3 (14~16)                                     | <b>14</b> Tecla ←◀◀<br>Tecla ▶▶→ +              | <b>29</b> Tecla ILLUMINATION (34)   |
| <b>4</b> Tecla DISC SKIP EX-<br>CHANGE (13~15)                         | <b>15</b> Tecla ▶▶→<br>Tecla ◀◀←                | <b>30</b> Indicador Power (34)      |
| <b>5</b> Tecla OPEN/CLOSE ▲<br>(13~15)                                 | Tecla ALBUM +/- (15, 16)                        | <b>31</b> Tecla GAME EQ (27, 29)    |
| <b>6</b> Gaveta de discos (13)   | <b>16</b> Tecla MOVIE EQ (27)                   | <b>32</b> △ (A) (deck A)            |
| <b>7</b> Tecla PLAY MODE<br>(13, 17, 22)<br>Tecla TUNER MEMORY<br>(18) | <b>17</b> Tecla CD SYNC (25)                    | <b>33</b> Tecla GROOVE (27)         |
| <b>8</b> Tecla FM MODE (21)  | <b>18</b> Tecla REC PAUSE/START<br>(24, 26, 30) | <b>34</b> Tecla GAME MIXING (29)    |
| <b>9</b> Tecla DIRECTION<br>(22~25, 30)<br>Tecla EDIT (25)             | <b>19</b> △ (B) (deck B)                        | <b>35</b> Tecla MUSIC EQ (27)       |
| <b>10</b> Tecla PUSH ENTER<br>(17, 18, 19, 28, 31)<br>Teclas ▲/▼/◄/►   | <b>20</b> Tecla SURROUND (28)                   | <b>36</b> Tecla GAME (29, 36)       |
| <b>11</b> Tecla ◀▷ (reprodução)  | <b>21</b> Tecla P FILE (28)                     | <b>37</b> Tecla MD (VIDEO) (36)     |
|  | <b>22</b> Controle VOLUME (30, 31)              | <b>38</b> Tecla TAPE A/B (22)       |
|  | <b>23</b> DECK B (22~26)                        | <b>39</b> Tecla TUNER/BAND (18)     |
|  | <b>24</b> Tomada PHONES                         | <b>40</b> Tecla CD (13~16, 24, 26)  |
|  | <b>25</b> Controle MIC LEVEL (30)               | <b>41</b> Tecla DISPLAY (32, 34)    |
|  | <b>26</b> Tomada MIC (30)                       | <b>42</b> Sensor de controle remoto |
|  |   | <b>43</b> Tecla AMP MENU (20, 34)   |
|  |   | <b>44</b> Tecla EFFECT ON/OFF (27)  |



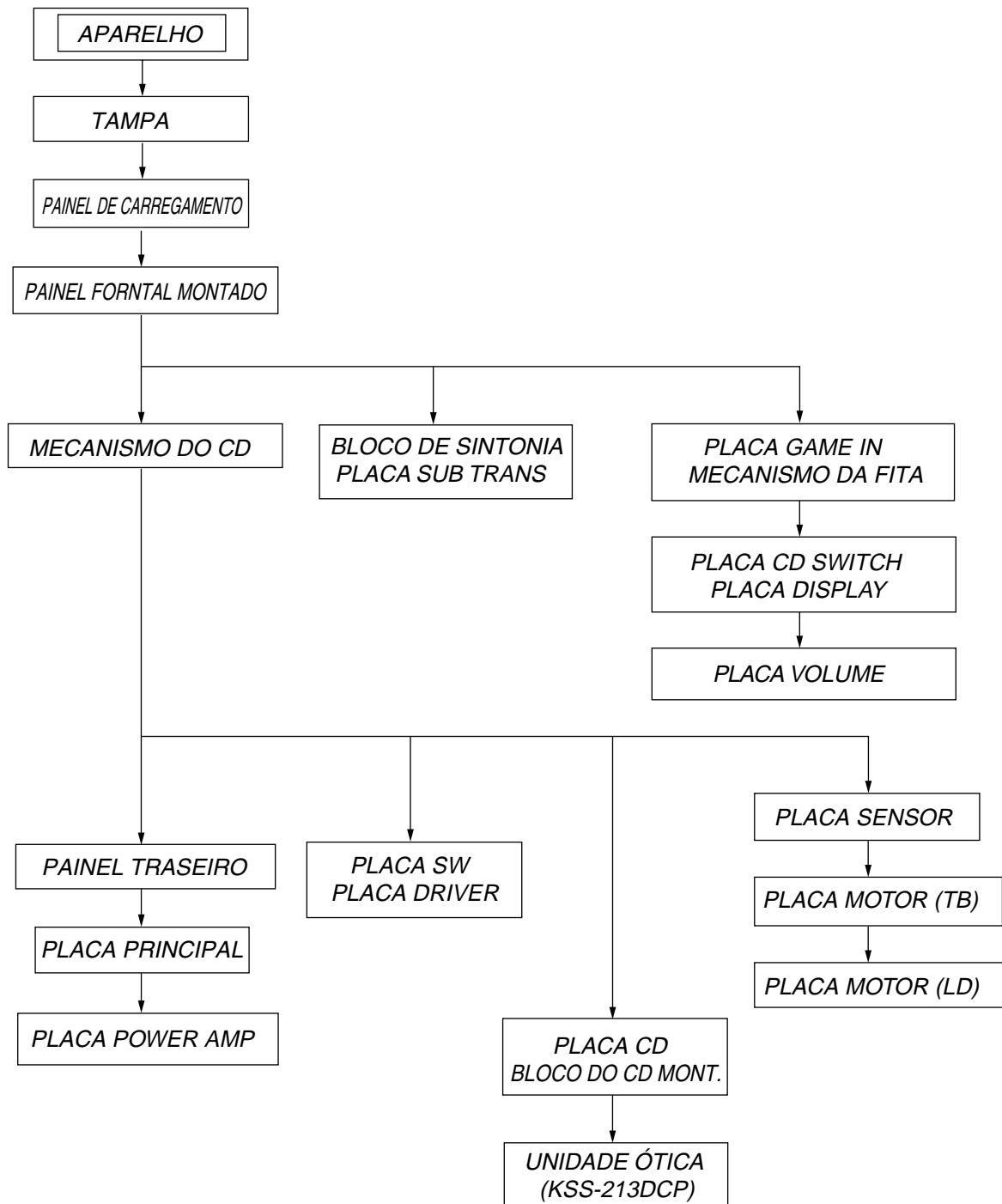
## Controle Remoto (RM-SR211)

- |   |  |
|---|--|
| 1 Tecla SLEEP (31)                        | 14 Tecla EFFECT ON/OFF (27)                |
| 2 Tecla CLOCK/TIMER<br>SELECT (26, 31~32) | 15 Teclas ↑/↓/←/→                          |
| 3 Tecla CLOCK/TIMER SET<br>(12, 31, 38)   | 16 Tecla P FILE (28)                       |
| 4 Tecla I/⏻ (power)                       | 17 Tecla PRESET EQ (27)                    |
| 5 Tecla II (pausa)                        | 18 Tecla TUNER/BAND (18, 21)               |
| 6 Tecla ■ (parada)                        | 19 Tecla CD (13~16, 24, 26)                |
| 7 Tecla CLEAR (17)                        | 20 Tecla GAME (29, 36)                     |
| 8 Teclas VOL +/- (31)                     | 21 Tecla ◀◀/TUNING -<br>(14~16, 18~21, 24) |
| 9 Tecla D. SKIP (14~16)                   | 22 Tecla ▶▶/TUNING +<br>(14~16, 18~21, 24) |
| 10 Tecla MD (VIDEO) (36)                  | 23 Tecla ◀◀/PRESET -<br>(14~16, 18~21, 24) |
| 11 Tecla TAPE A/B (22)                    | 24 Tecla ▶▶/PRESET +<br>(14~16, 18~21, 24) |
| 12 Tecla SURROUND (28)                    | 25 Tecla ◀▶ (reprodução)                   |
| 13 Tecla ENTER<br>(17, 18, 19, 28, 31)    |  |



## SEÇÃO 3 DESMONTAGEM

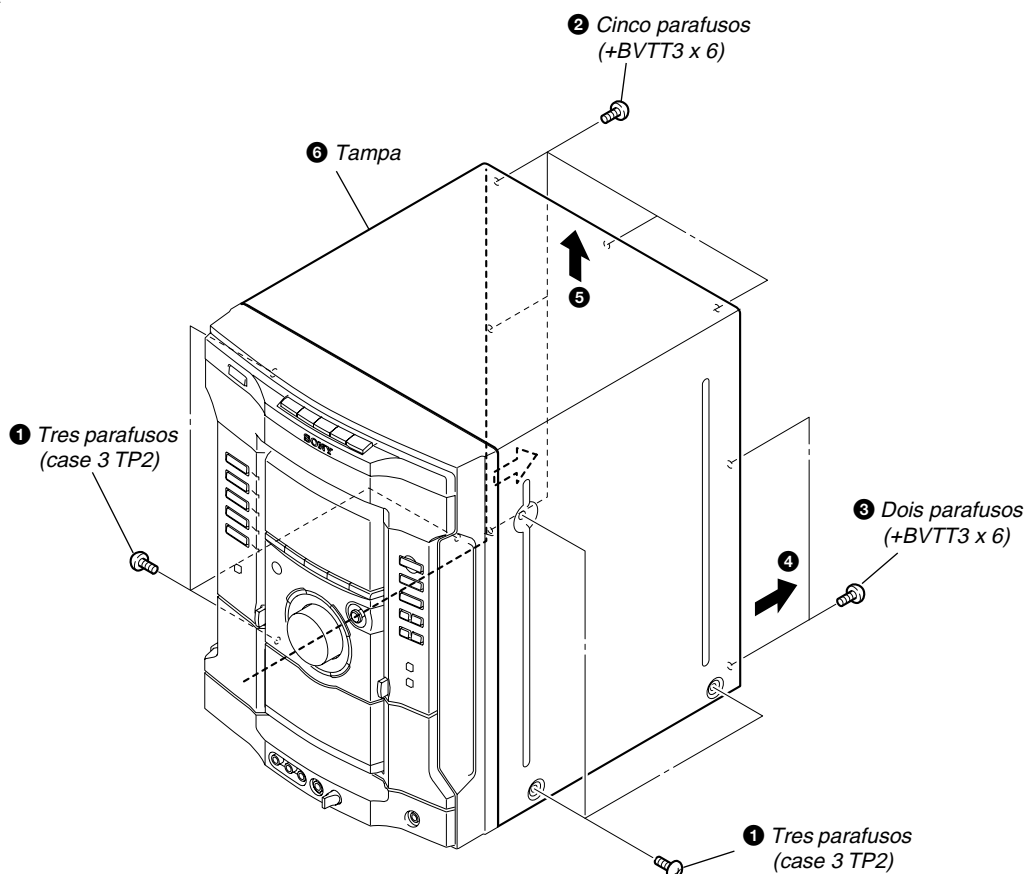
- Siga o procedimento de desmontagem na ordem numérica dada.



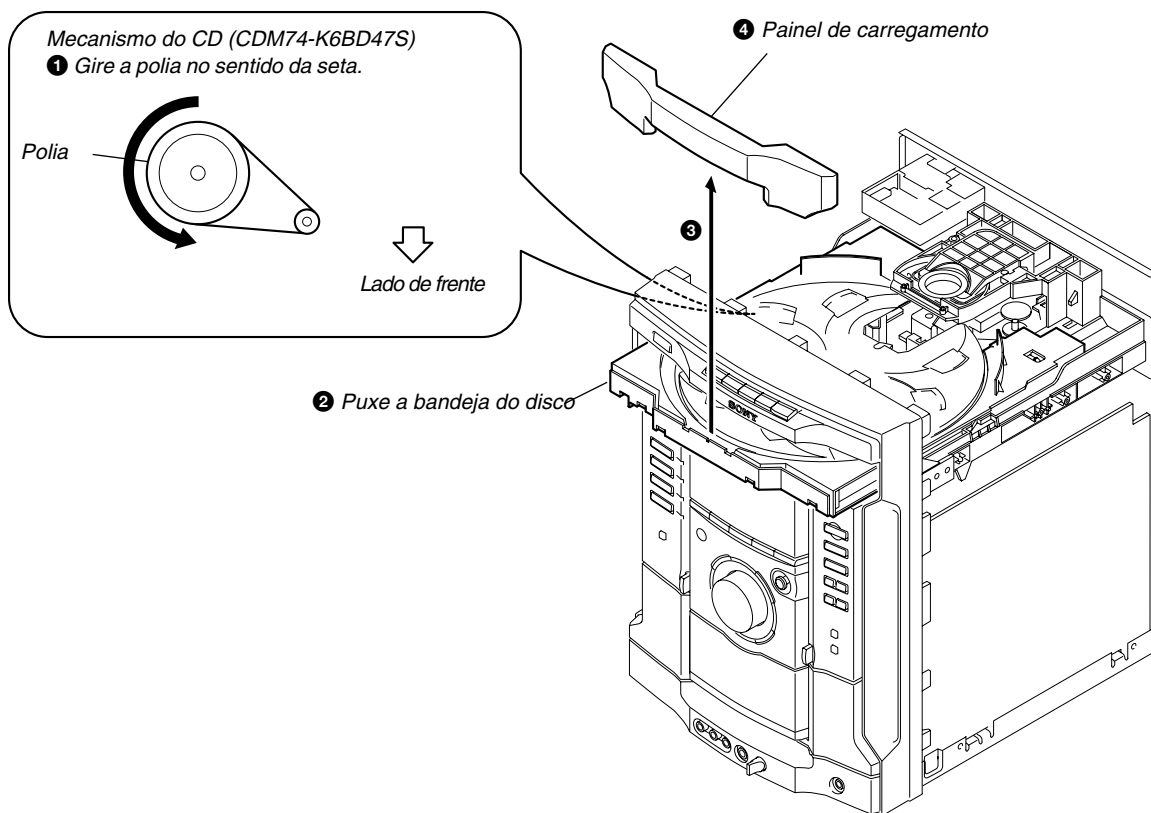
# MHC-GN900

**Nota:** Siga o procedimento de desmontagem na ordem numérica dada.

## 3-1. TAMPA

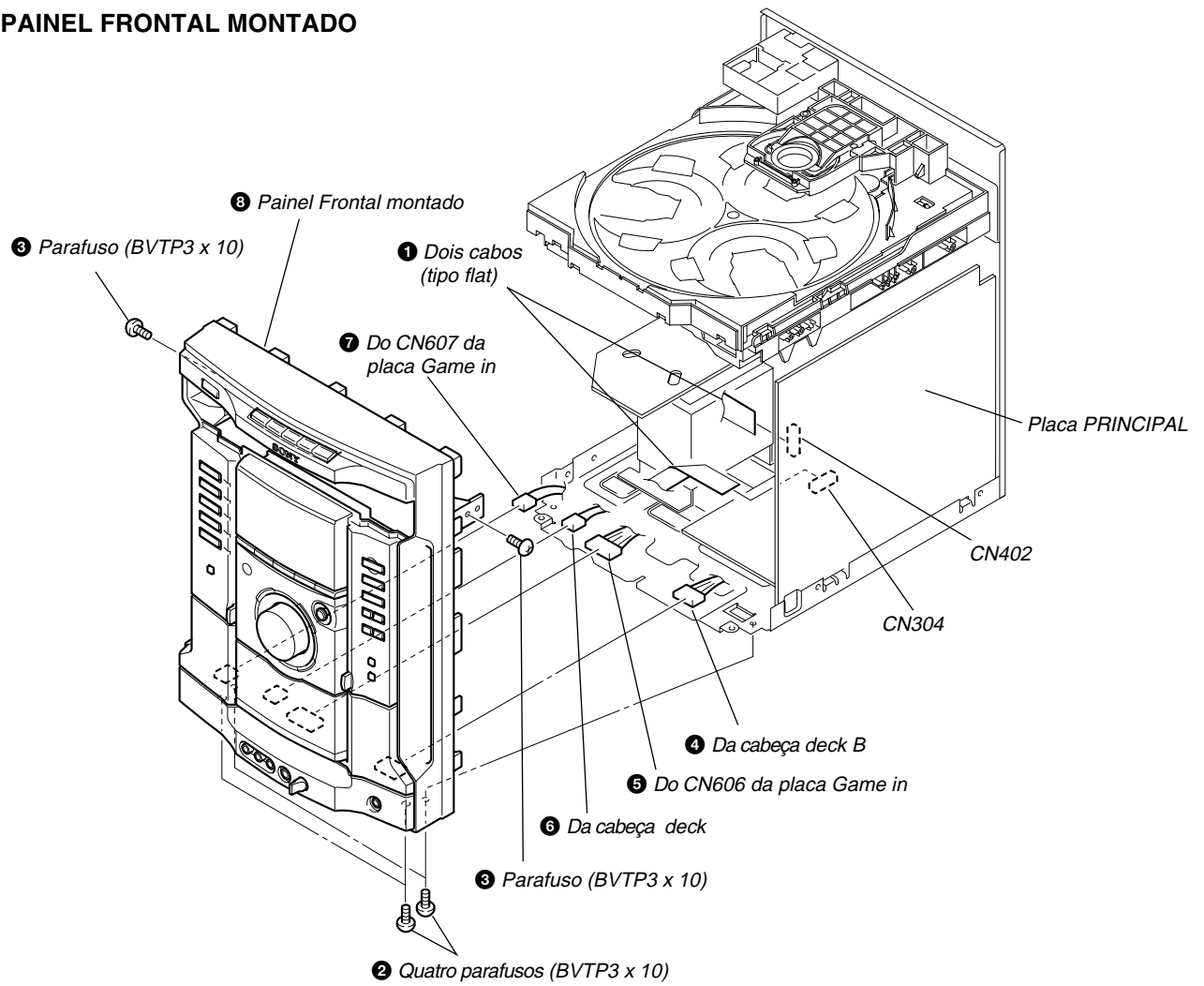


## 3-2. PAINEL DE CARREGAMENTO

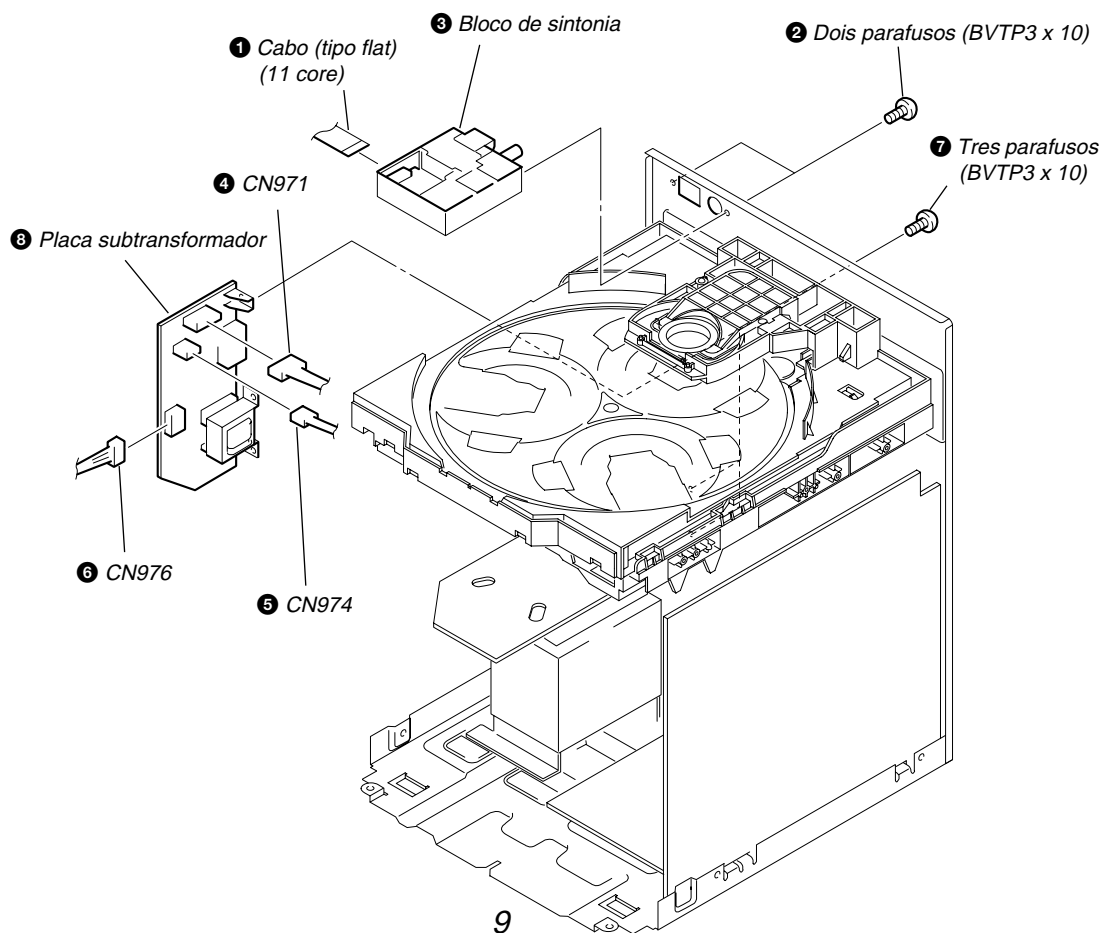




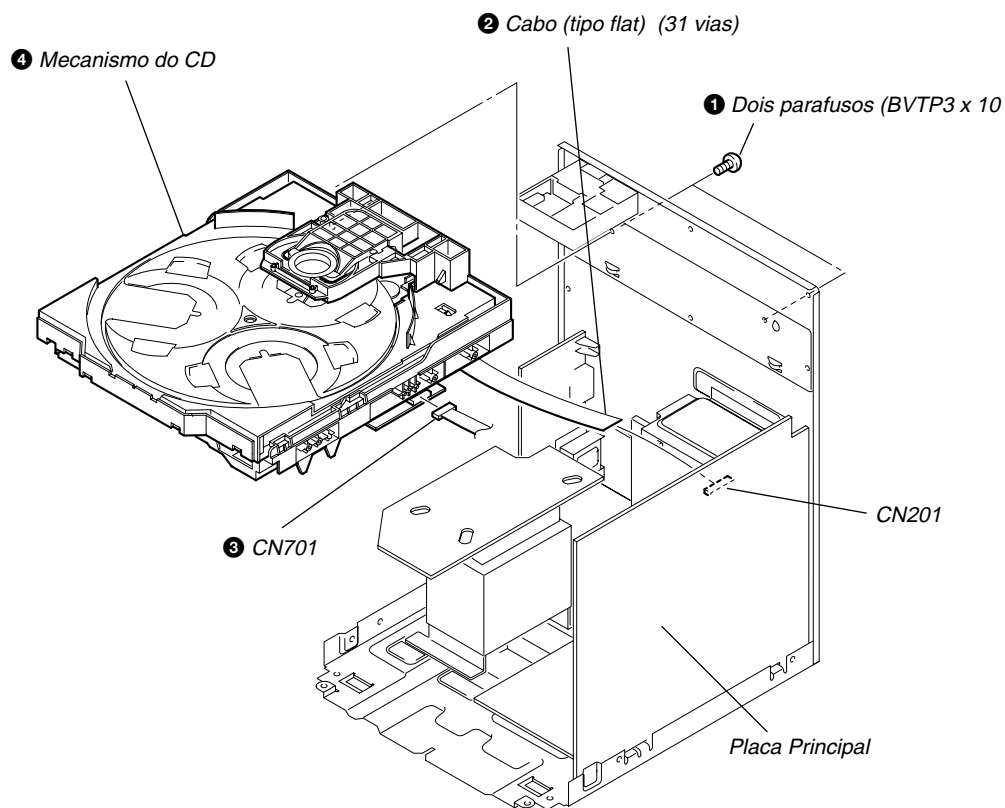
3-3. PAINEL FRONTAL MONTADO



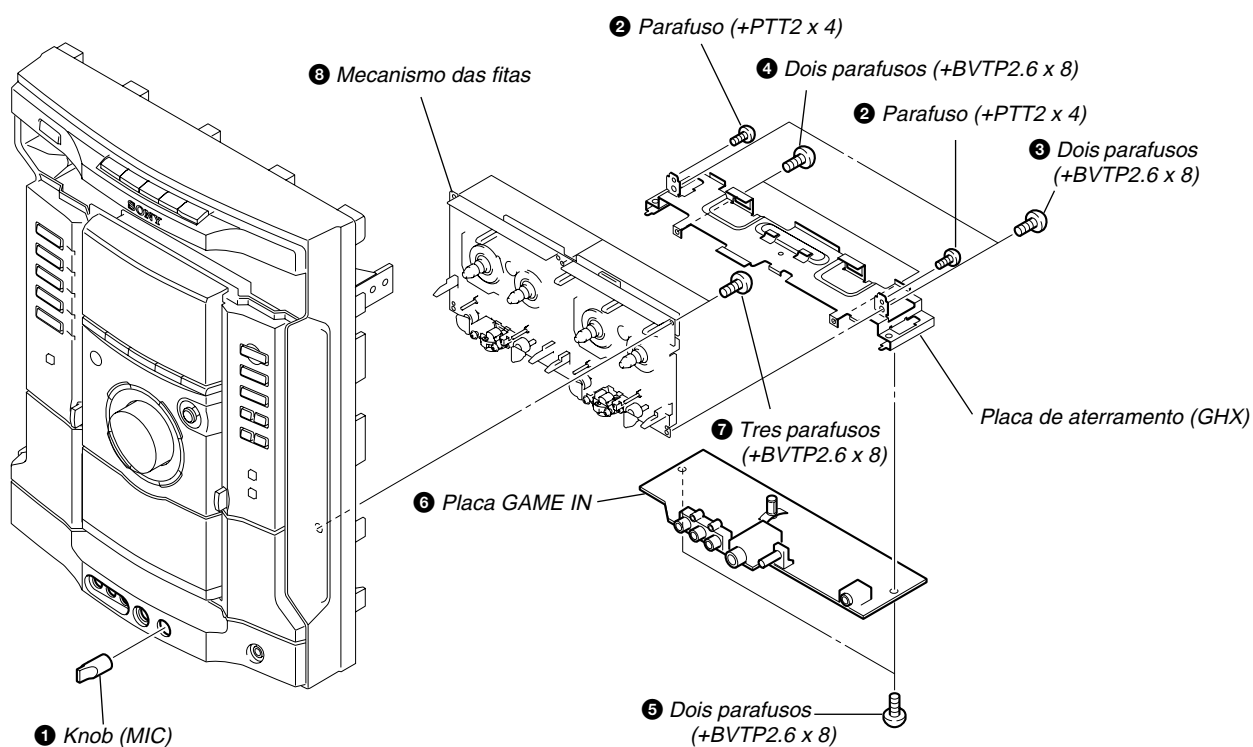
3-4. PLACA BLOCO DE SINTONIA, SUB TRANS



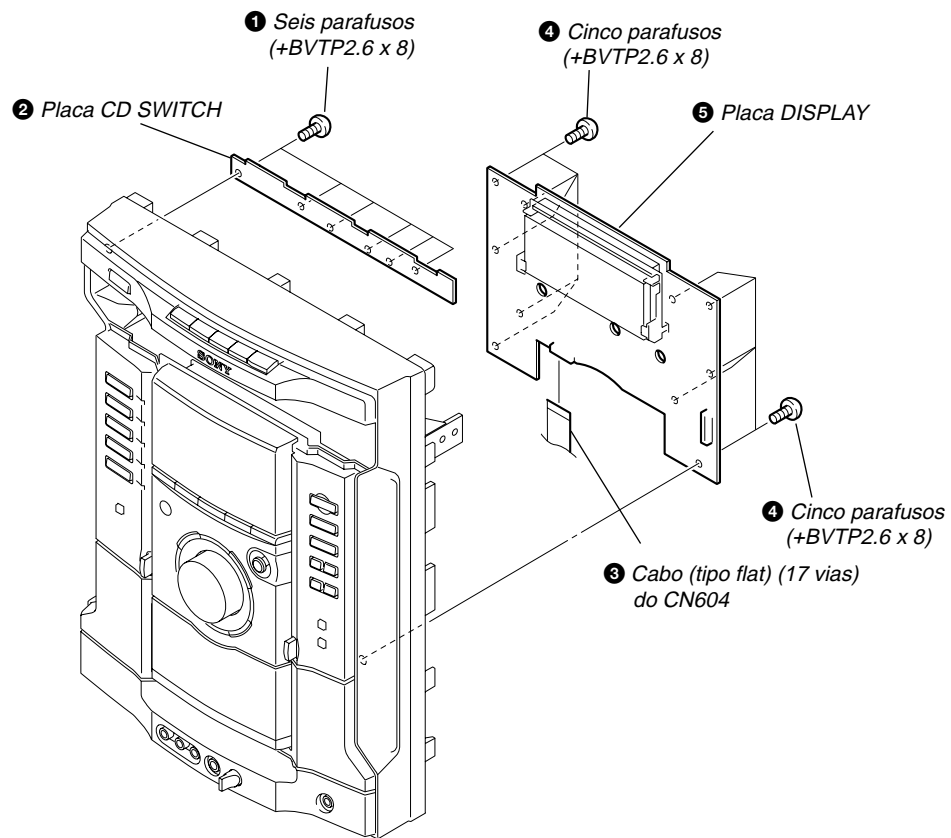
3-5. MECANISMO DO CD



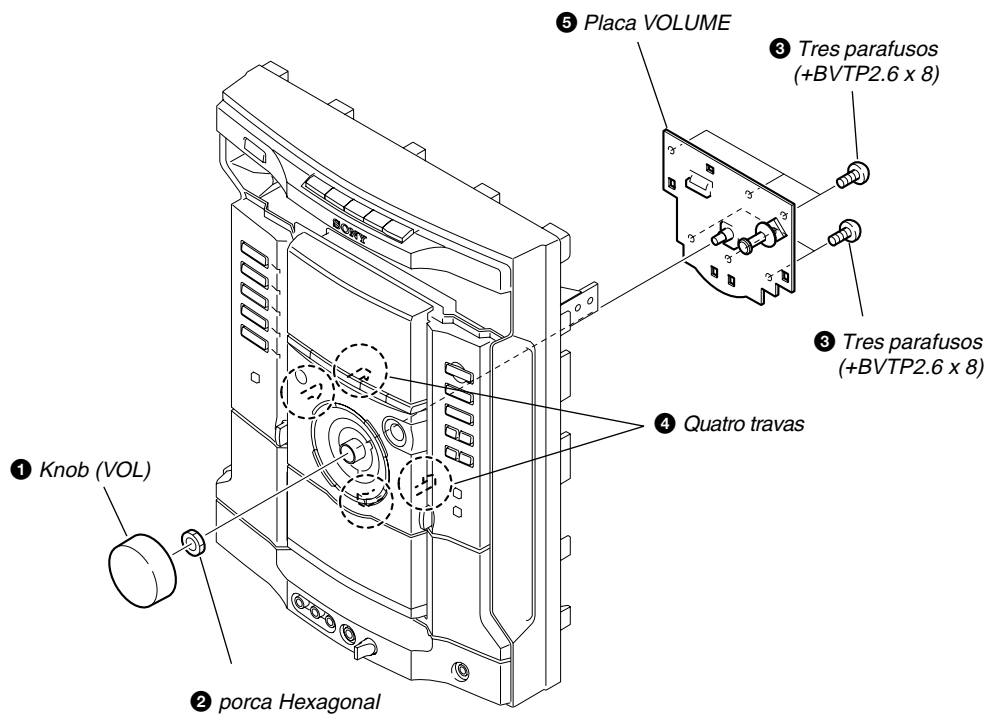
3-6. PLACA GAME IN, MECANISMO DAS FITAS



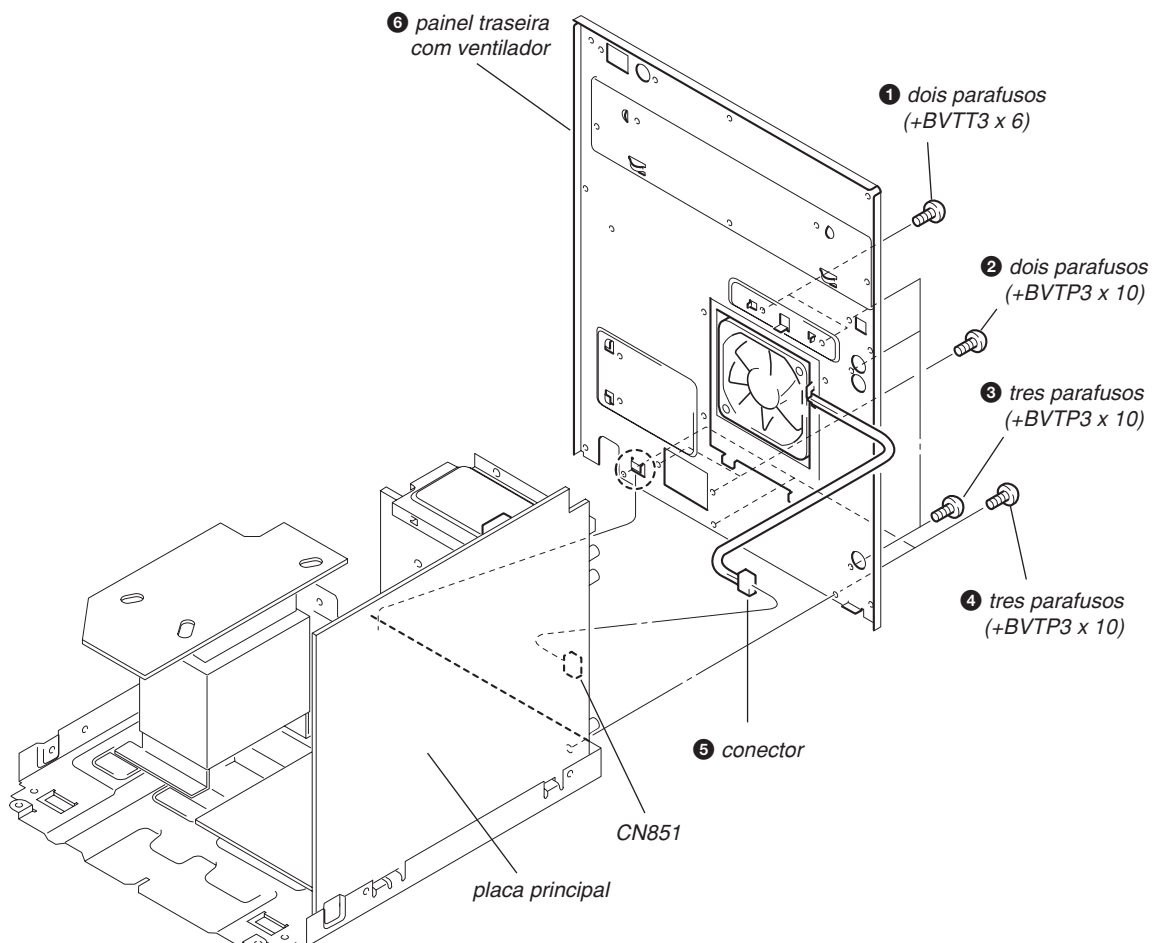
3-7. PLACAS CD SWITCH , DISPLAY



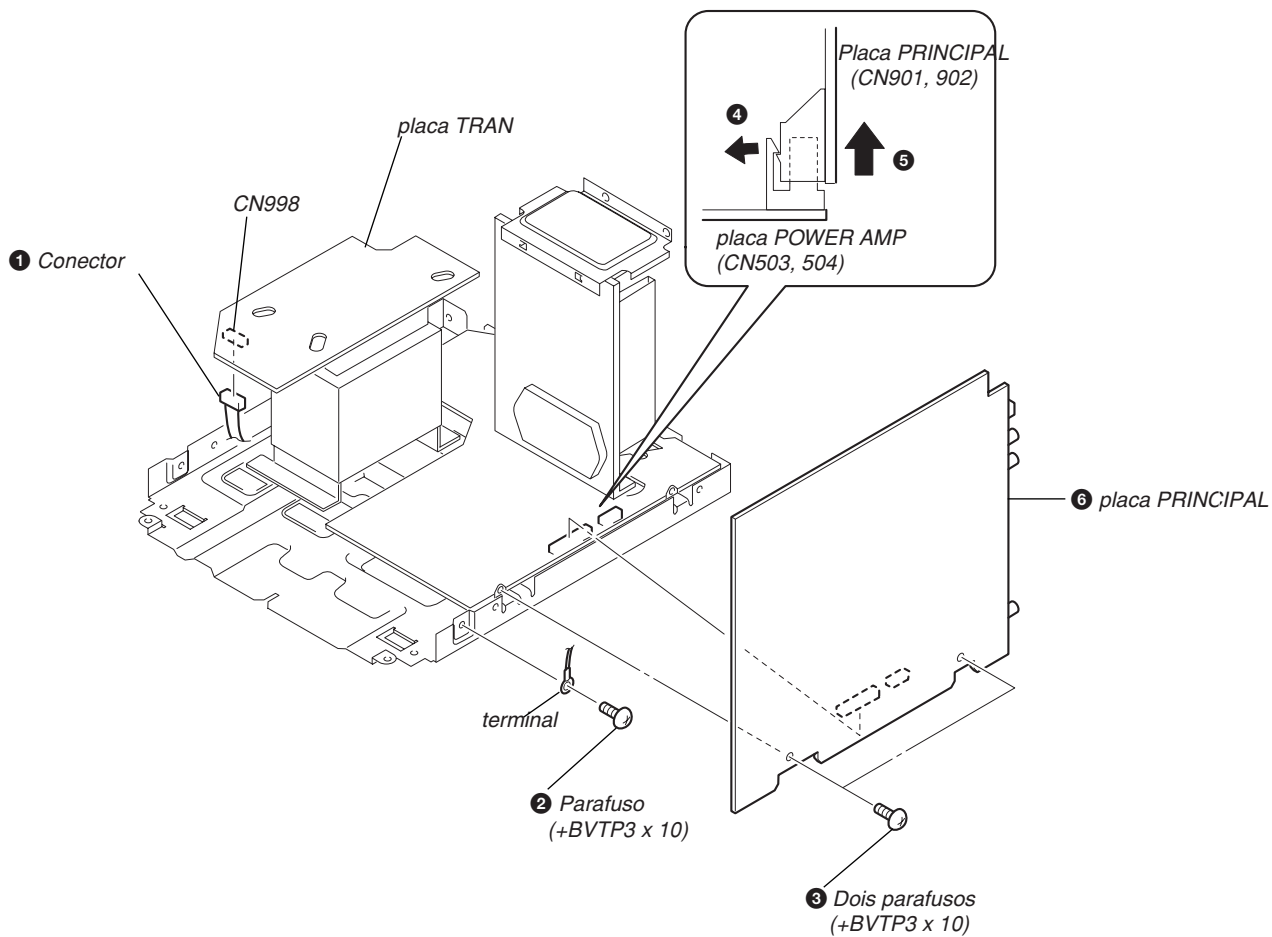
3-8. PLACA VOLUME



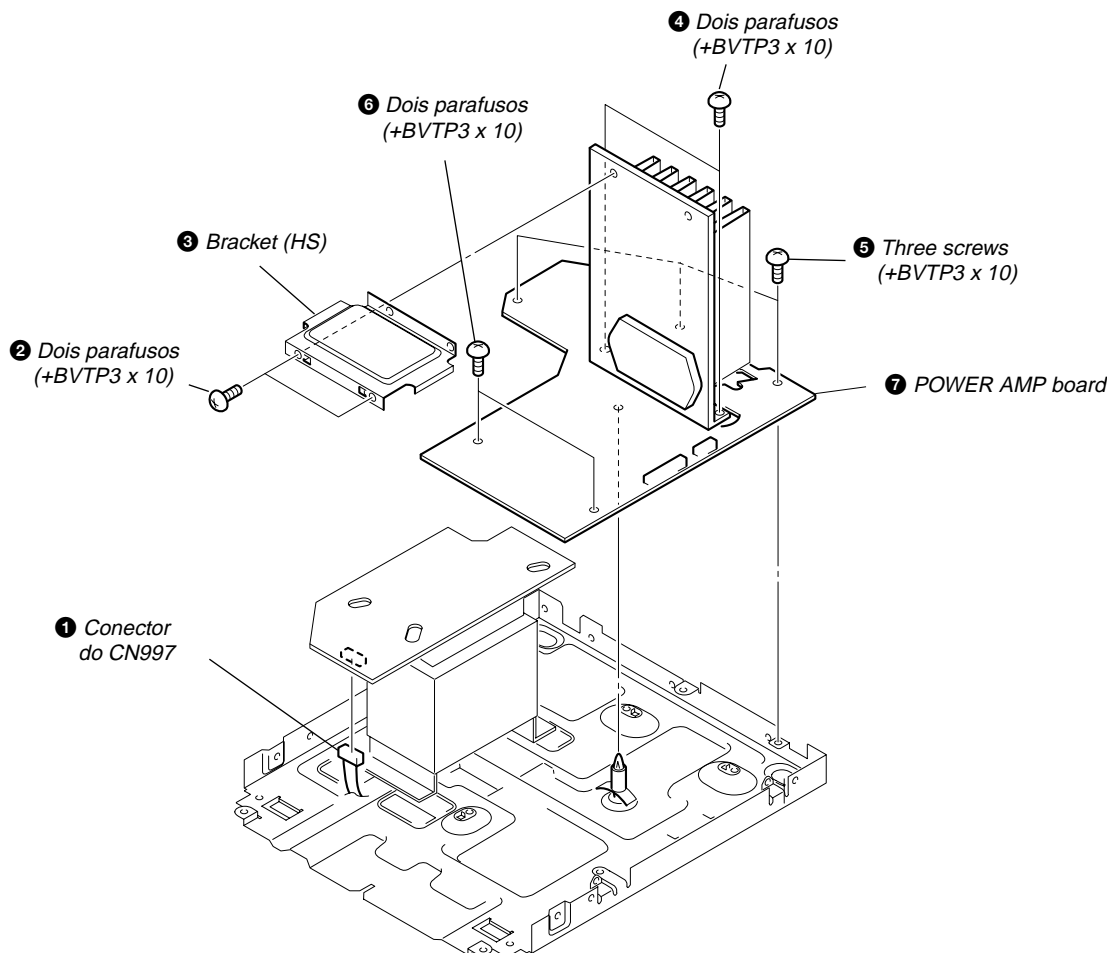
3-9. PAINEL TRASEIRO



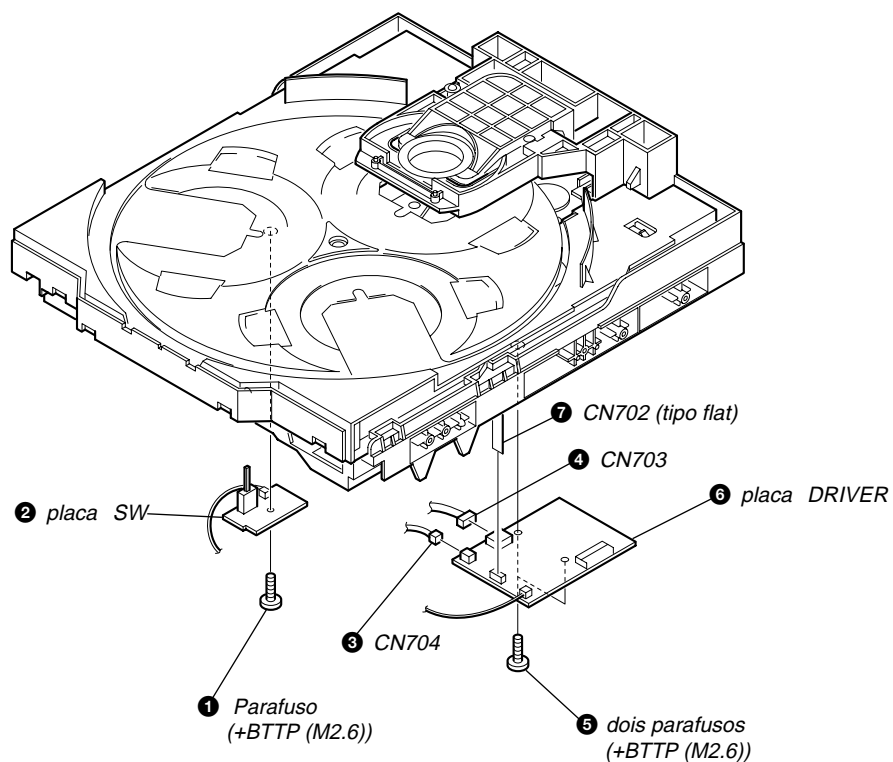
3-10. PLACA PRINCIPAL



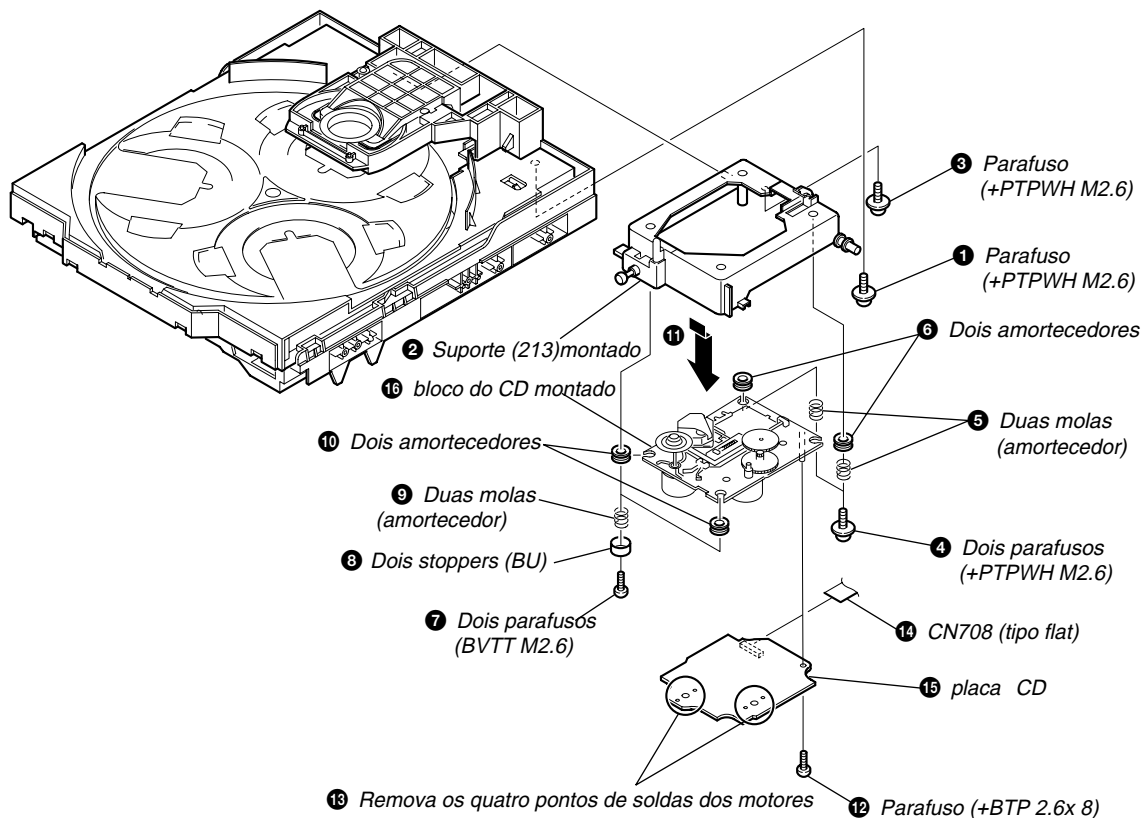
3-11. PLACA POWER



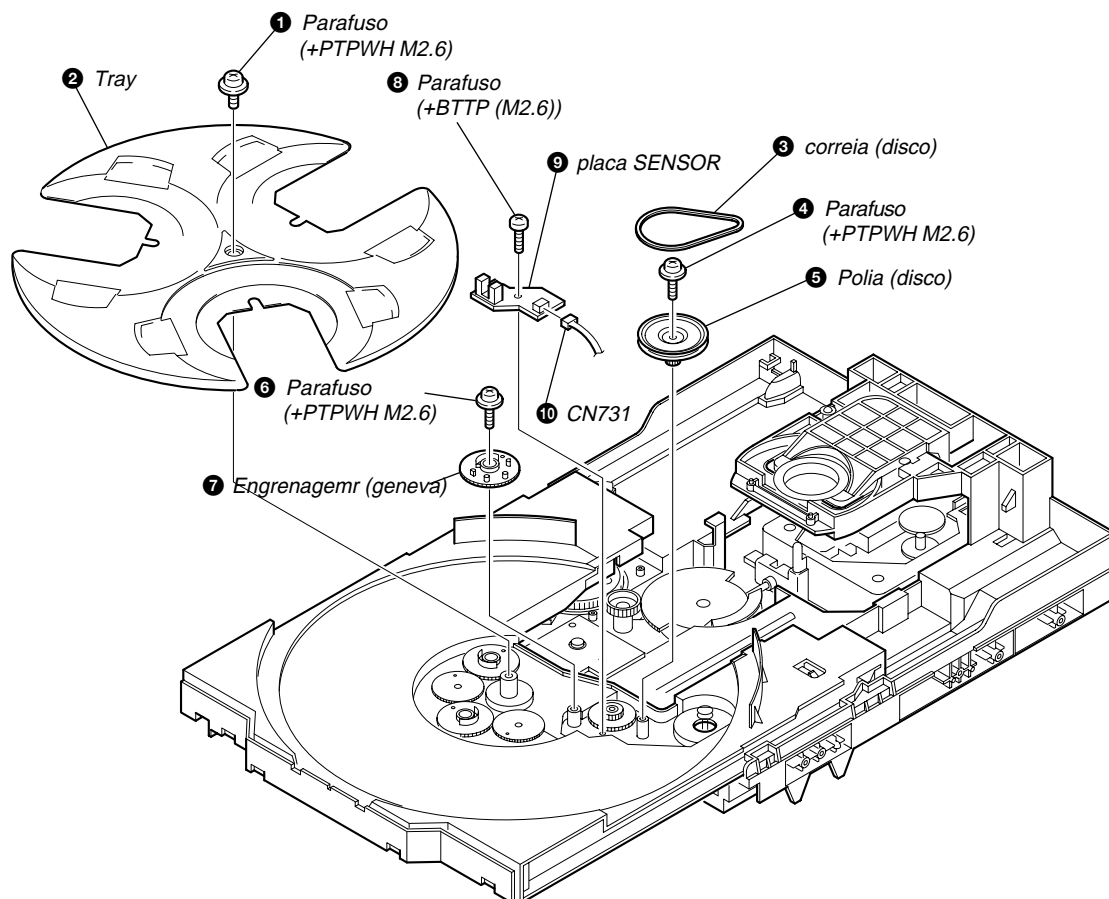
3-12. PLACAS SW E DRIVER



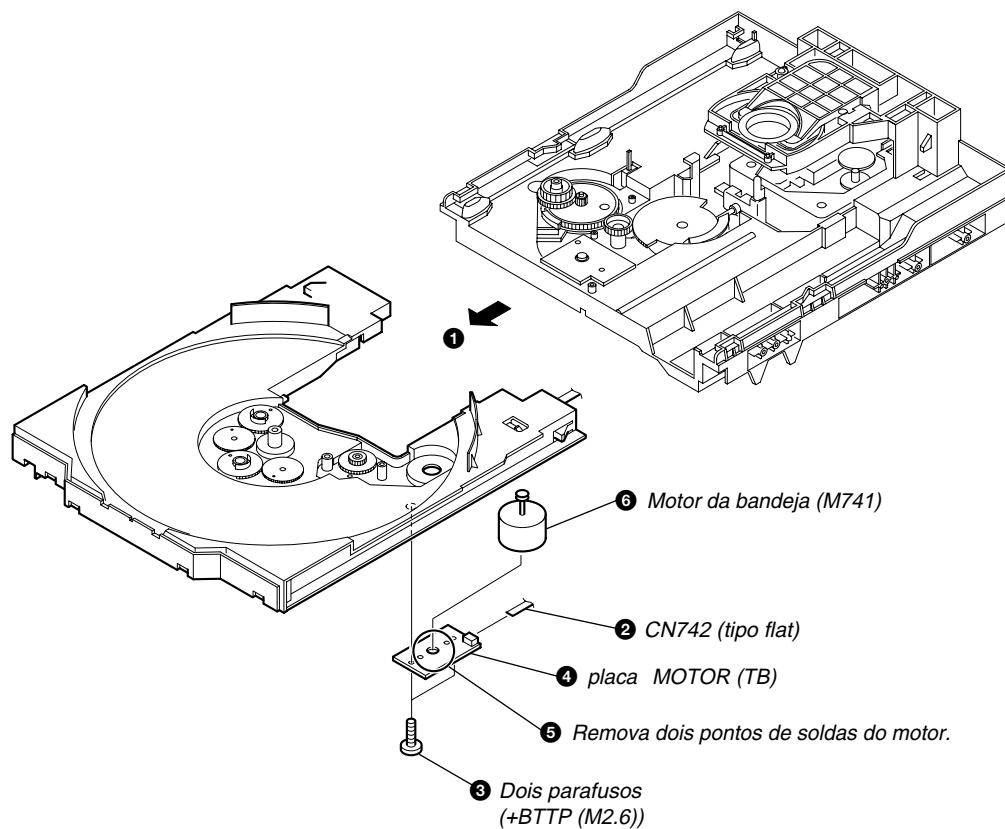
3-13. PLACA CD , BLOCO DE CD BLOCK MONTADO



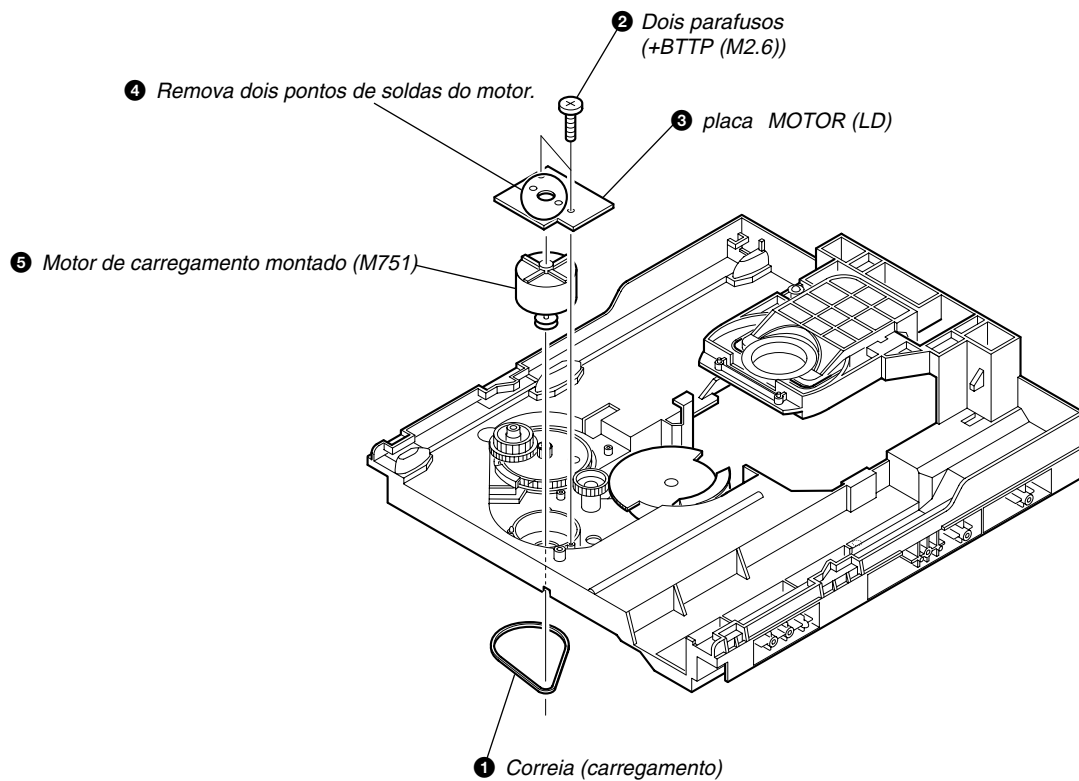
3-14. PLACA SENSOR



3-15. PLACA MOTOR (TB)



3-16. PLACA MOTOR (LD)




## SEÇÃO 4

### MODO DE TESTE

#### [MODO DE TESTE GC]

- Este modo é utilizado para verificação de indicador de tubo fluorescente, LED, modelo, destinatino, versão do software volume, chave e nível de VACS.

#### Procedure:


1. Pressione  **[AMP MENU]** e **[DISC 2]** simultaneamente.
2. Acentem todos os segmentos do tubo fluorescente e LEDs.
3. When you want to enter the software version display mode, press **[DISC 1]** button. The model and destination are displayed.
4. Each time **[DISC 1]** button is pressed, the display changes from MC version, GC version, CD version, CDDM version, CDMA version, CDMB version, BDA version, BDB version, ST version, TA version, TM version and TC version in this order, and returns to the MC version display.
5. When **[DISC 3]** button is pressed while the version numbers are being displayed except model and destination, the date of the software creation appear. When **[DISC 3]** button is pressed again, the display returns to the software version display. When **[DISC 1]** button is pressed while the date of the software creation is being displayed, the date of the software creation is displayed in the same order of software version display.
6. Press **[DISC 2]** button, the key check mode is activated.
7. In the key check mode, the fluorescent indicator tube displays "K 0 V 0".  
Each time a button is pressed, "K" value increases. However, once a button has been pressed, it is no longer taken into account. "V" value increases in the manner of 0,1, 2, 3 ... if **[VOLUME]** knob is turned clockwise, or it decreases in the manner of 0, 9, 8,7 ... if **[VOLUME]** knob is turned counter-clockwise.
8. When **[DISC 3]** button is pressed after all LEDs and segments in fluorescent indicator tube light up, the fluorescent indicator tube displays "VACS A + B". A is VACS level which is trigger by signal level while B is VACS level which is trigger by thermal. Total VACS value would be the sum of A and B.
9. When **[DISC SKIP/EX-CHANGE]** button is pressed after all LEDs and segments in fluorescent indicator tube light up, alternate segments in fluorescent indicator tube would light up. If you press **[DISC SKIP/EX-CHANGE]** button again, another half of alternate segments in fluorescent indicator tube would light up. Pressing **[DISC SKIP/EX-CHANGE]** button again would case all segments lights up.
10. To release this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

#### [MC TEST MODE]





- This mode is used to check operations of the respective sections of Amplifier, Tuner, and Tape.

#### Procedure:

\* To enter MC Test Mode

1. Press  button, **[AMP MENU]** button and **[DISC 3]** button simultaneously.
2. The TAPE A and TAPE B segments flash on the fluorescent indicator tube. The function is changed to VIDEO.



\* Check of Amplifier

1. When  button is pressed, GEQ increases to its maximum and a message "GEQ MAX" appears on the fluorescent indicator tube.
2. When  button is pressed, GEQ decreases to its minimum and a message "GEQ MIN" appears on the fluorescent indicator tube.
3. When  button or  button is pressed, GEQ is set to flat and a message "GEQ FLAT" appears on the fluorescent indicator tube.
4. When the **[VOLUME]** knob is turned clockwise even slightly, the sound volume increases to its maximum and a message "VOLUME MAX" appears for two seconds, then the display returns to the original display.
5. When the **[VOLUME]** knob is turned counter-clockwise even slightly, the sound volume decreases to its minimum and a message "VOLUME MIN" appears for two seconds, then the display returns to the original display.

\* Check of clock frequency

1. To check the frequency of clock used to run the clock of the system, the clock output is available at IC501 pin ③ (CLOCK-OUT) on the MAIN board during MC test mode.
2. The frequency is 32.768 kHz.


\* Tape function

1. When a tape is inserted in Deck B and recording is started, the function is changed to VIDEO automatically. When **[CD SYNC]** button is pressed during recording in function, ALC (Automatic Logic Control) is turned on.
2. After recording is stopped by pressing  button, press  button will change the function to TAPE B and rewind Tape B until the recording start position and playback of Tape B is started. If the **[REC PAUSE/ START]** button is pressed for a pause and pressed again to resume recording during recording time, when tape deck B is rewind, tape deck B will be rewind until the position where the pause is applied.

\* AMS Test Mode

1. Select the function "TAPE A" or "TAPE B".
2. Select Loop or Relay direction mode by pressing the **[DIRECTION]** button. Insert a test tape AMS-110A or AMS-120 to selected tape deck.
3. Press the **[AMP MENU]** button to enter the AMS test mode.
4. After the test tape is rewind to the beginning of the tape, the AMS+ is checked, and the mechanism is shut off after detecting the AMS signal twice.
5. Then the AMS- is checked and the mechanism is shut off after detecting the AMS signal twice.
6. When the check is complete, a message of either OK or NG appears.

\* To release MC Test mode.




1. To release this mode, press  button.
2. The cold reset is enforced at the same time.



**[COLD RESET]**

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.


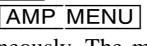
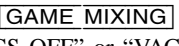
**Procedure:**

- Press  button,  button, and  button simultaneously.
- The fluorescent indicator tube becomes blank for a while, and the set is reset.

**[VACS ON/OFF]**

- This mode is used to switch ON and OFF the VACS (Variable Attenuation Control System).


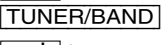

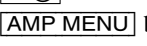

**Procedure:**

- Press  button to turn the set ON.
- Press  button and  button simultaneously. The message “VACS OFF” or “VACS ON” appears.

**[TUNER STEP CHANGE]**

- The step interval of AM channels can be toggled between 9 kHz and 10 kHz.



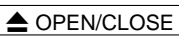



**Procedure:**

- Press  button to turn the set ON.
- Press  button to select the “AM”.
- Press  button to turn the set OFF.
- Press  button and  button simultaneously. The system will turn ON automatically. The message “AM 9k STEP” or “AM 10k STEP” appears and thus the channel step is changed.

**[CD SERVICE MODE]**

- This mode let you move the CD sled motor freely. Use this mode when you want to clean the optical pick-up.

**Procedure:**


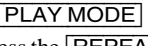
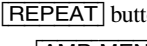

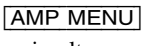
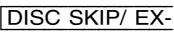

- Press button to turn the set ON.
- Select CD function.
- Press ,  button, and  button simultaneously.
- The CD service mode is activated. The message “SERVICE MODE” appears.
- With the CD in stop status, press  button to move the optical pick-up to outside track, or press  button to move to inside track. The message “SLED OUT” or “SLED IN” appears.
- To release this mode, press  button.

**[AGING MODE]**

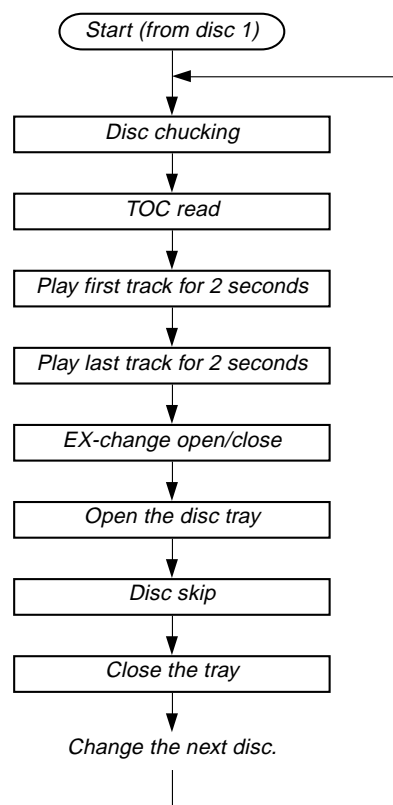
This mode can be used for operation check of CD section.

- If an error occurs, the aging operation would stops and the status is displayed.
- If there are no error occurs, the aging operation would continues repeatedly.

**Procedure:**

- Press  button to turn the set ON
- Select CD function.
- Load three discs on the disc tray.
- Press  button to select the “ALL DISCS” mode, and press the  button to select “REPEAT OFF” mode.
- Press ,  button, and  button simultaneously.
- Aging operation is started.
- To release this mode, press  button or disconnect the power cord to turn the power OFF.

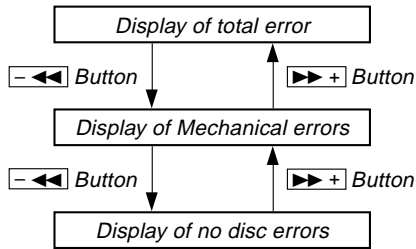
## 2. Aging mode sequence:



## • Display when an error occurred (CD Error Code Mode)

### Procedure:

1. Press button, **AMP MENU** button and **DISC 1** button simultaneously to enter the error code display mode.
2. The fluorescent indicator tube displays the number of total error.
3. Each time button or button is pressed, display change as below



4. To clear the error record, operate the cold reset. (Refer to the "MC COLD RESET")
5. To release this mode, press the button or disconnect the power plug to turn the power OFF.

### 1) Display of total error

Display

EMC\*\*EDC\*\*

EMC\*\*: The number of mechanical errors.

EDC\*\*: The number of no disc errors after chucking the disc.

### 2) Display of mechanical errors

Display

M\*\$\$%?/&&##00

M\*: The number of mechanical error ("00" is latest one)

(Press button or button to display next error)

\$\$: Not used

%%: Loading related error (Second figure is not used)

D: Stop by the problem other than mechanical problem while closing.

E: Stop by the problem other than mechanical problem while opening.

C: Stop by the problem other than mechanical problem while chucking up.

F: Stop by the problem other than mechanical problem while chucking down.

&&: Emerging error

01: Stop while chucking up.

02: Stop while chucking up.

03: Time-out of EX-CHANGE open.

05: Time-out of EX-CHANGE close.

##: Not used

### 3) Display of no disc errors

Display

D\*\$\$%?/&&##00

D\*: The number of mechanical error ("00" is latest one)

(Press button or button to display next error)

\$\$: Error type

01: Focus error

02: GFS error

03: Setup error

%%: Not used

&&:

00: No disc judgment without chucking retry.

01: No disc judgment after chucking retry.

##: The state when judged as no disc

01: Stop

02: Setup

03: TOC reading

04: Access

05: Playback

06: Pause

07: Manual search (Play)

08: Manual search (Pause)

## [CD REPEAT 5 LIMIT OFF MODE]

- The number of repeat for CD playback is 5 times when the repeat mode is "REPEAT ALL". This mode enables CD to repeat playback for limitless times.

### Procedure:

1. Press button to turn the set ON.
2. Select CD function.
3. Press button, **REPEAT** button and **CD** button simultaneously to enter the CD repeat 5 limit off mode and the fluorescent indicator tube displays "LIMIT OFF".
3. To release this mode, operate the cold reset. (Refer to the "MC COLD RESET")

## [CD SHIP MODE (WITH MEMORY CLEAR)]

- This mode moves the optical pick-up to the position durable to vibration and clears all data including preset data stored in the RAM to initial conditions. Use this mode when returning the set to the customer after repair.




### Procedure:

1. Press button to turn the set ON.
2. Select CD function.
3. Press button, **AMP MENU** button and **GAME** button simultaneously. The set will power off automatically.
4. After the "STANDBY" blinking display finish, a message "LOCK" is displayed on the fluorescent indicator tube and the CD ship mode is set.

**[CD SHIP MODE (WITHOUT MEMORY CLEAR)]**

- This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.





**Procedure:**

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button and  button simultaneously. The set will power off automatically.
4. After the “STANDBY” blinking display finish, a message “LOCK” is displayed on the fluorescent indicator tube and the CD ship mode is set.


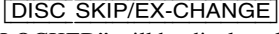
**[CD POWER MANAGE]**

- This mode let you switch on or off power supply to the BU during TUNER function.
- When CD POWER is set to OFF, the power supply to the BU is cut off during TUNER function. It will increase the time taken to access CD when function change from TUNER to CD but it will improve tuner reception.
- When CD POWER is set to ON, the power supply to the BU is not cut off during TUNER function. It will reduce the time taken to access CD when function change from TUNER to CD but it will decrease tuner reception performance.




**Procedure:**

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button to turn the set OFF.
4. Press  button and  button simultaneously. The set will power on automatically.
5. The message “CD POWER ON” or “CD POWER OFF” will be displayed on the fluorescent indicator tube.

**[CD TRAY LOCK MODE]**

- This mode let you lock the disc trays. When this mode is activated, the disc tray will not open when  OPEN/CLOSE button or  DISC SKIP/EX-CHANGE button is pressed. The message “LOCKED” will be displayed in the will be displayed on the fluorescent indicator tube.




**Procedure:**

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button and  button simultaneously and hold down until “LOCKED” or “UNLOCKED” displayed on the fluorescent indicator tube (around 5 seconds).

**[MD/VIDEO SWITCHING]**

- This mode let you switch from MD to VIDEO and vice-versa.

**Procedure:**

1. Press  button to turn the set ON.
2. Select MD function.
3. Press  button and  button simultaneously. The function will change to VIDEO. Press the same buttons again to change from VIDEO to MD.

## SECTION 5 MECHANICAL ADJUSTMENTS

**Precaution**

1. Clean the following parts with a denatured alcohol-moistened swab:  
 record/playback heads      pinch rollers  
 erase head   rubber belts  
 capstan   idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

**Torque Measurement**

Mode	Torque meter	Meter reading
FWD	CQ-102C	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	6.96 N • m to 14.02 N • m 71 to 143 g • cm (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	9.80 N • m 100 g or more (3.53 oz or more)
REV tension	CQ-403R	9.80 N • m 100 g or more (3.53 oz or more)

## SECTION 6 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775 V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment

### RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

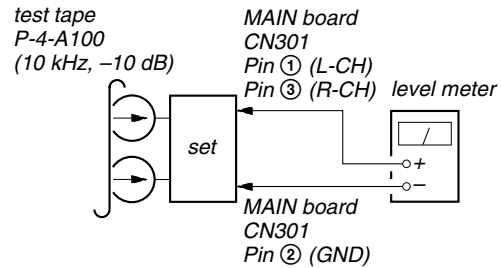
DECK A

DECK B

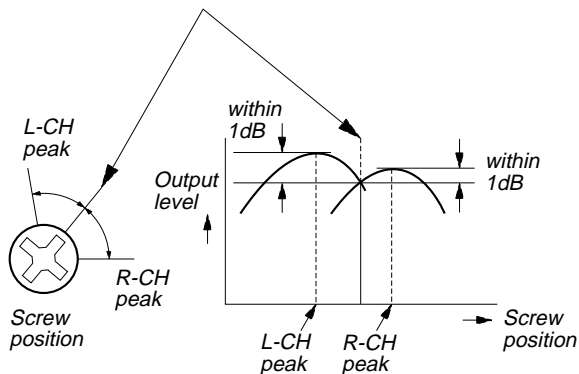
**Note:** Perform this adjustments for both decks

**Procedure:**

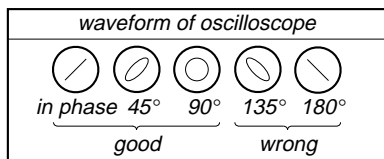
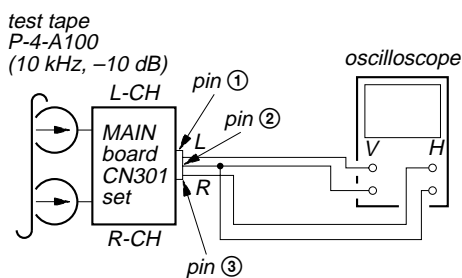
1. Mode: Playback



- Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

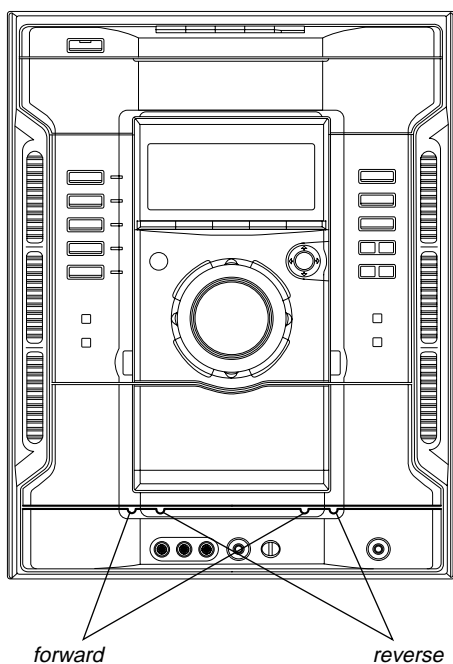


- Mode: Playback



- After the adjustments, apply suitable locking compound to the parts adjusted.

**Adjustment Location:** Playback Head (Deck A).  
Record/Playback/Erase Head (Deck B).

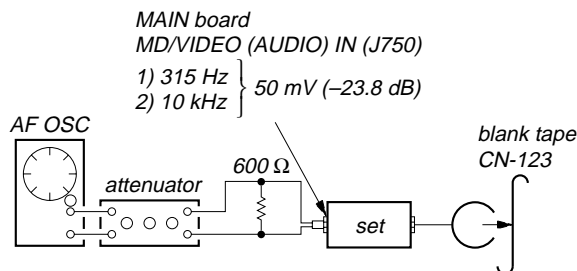


## REC BIAS ADJUSTMENT DECK B

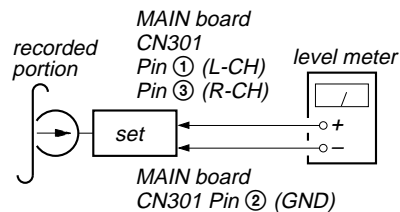
### Procedure:

In the MC test mode, the "REC memory mode" is convenient for this adjustment. In the "REC memory mode", when the REC starts the input signal FUNCTION is switched to VIDEO automatically. When the REC stops, the tape returns near to the recording start position.

- Press **[MD (VIDEO)]** button to select VIDEO. (This step is not necessary if the above test mode has already been set)
- Insert a tape into deck B.
- After press **[REC PAUSE/START]** button, press **[REC PAUSE/START]** button, then recording start.
- Mode: Record



- Mode: Playback



- Confirm the playback signal recorded in step 3 becomes adjustable level as follows.

If these levels are not adjustable level, adjust the RV304 (L-CH) and RV354 (R-CH) on the MAIN board to repeat steps 4 and 5.

**Adjustable level:** Playback output of 315 Hz to playback output of 10 kHz:  $\pm 1.0$  dB

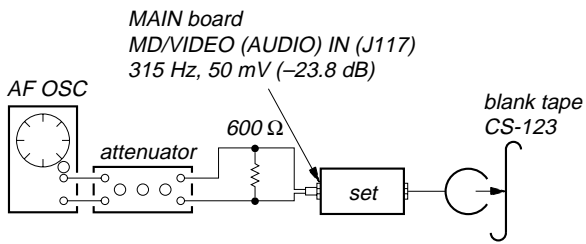
**Adjustment Location:** MAIN board

## REC LEVEL ADJUSTMENT DECK B

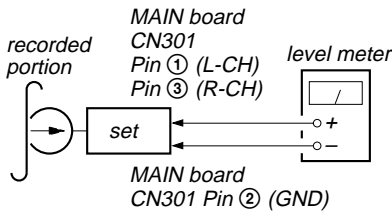
### Procedure:

In the MC test mode, the "REC memory mode" is convenient for this adjustment. In the "REC memory mode", when the REC starts the input signal FUNCTION is switched to VIDEO automatically. When the REC stops, the tape returns near to the recording start position.

1. Press MD (VIDEO) button to select VIDEO. (This step is not necessary if the above test mode has already been set)
2. Insert a tape into deck B.
3. After press REC PAUSE/START button, press REC PAUSE/START button, then recording start.
4. Mode: Record



5. Mode: Playback



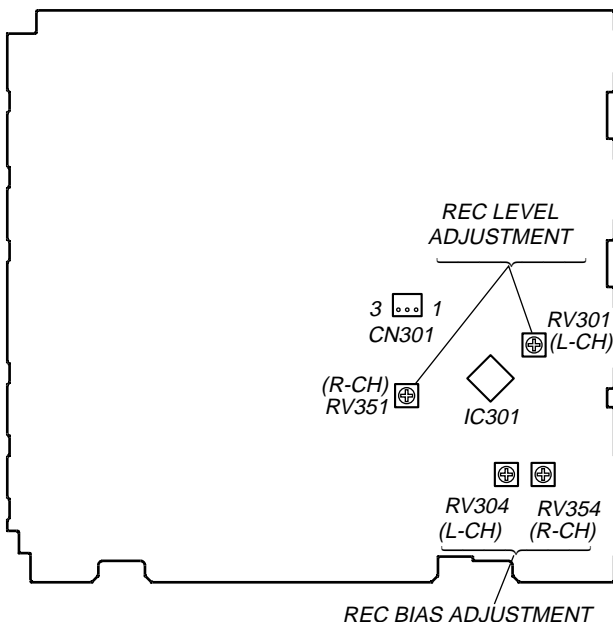
6. Confirm the play back signal recorded in step 3 becomes adjustable level as follows.  
If these levels are not adjustable level, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 4 and 5.

### Adjustable level:

CN301 PB level: 47.2 to 53.0 mV (-24.3 to -23.3 dB)

Adjustment Location: MAIN board

– MAIN BOARD (Component Side) –



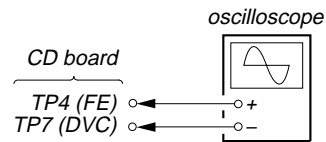
## CD SECTION

### Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

### S-curve Check

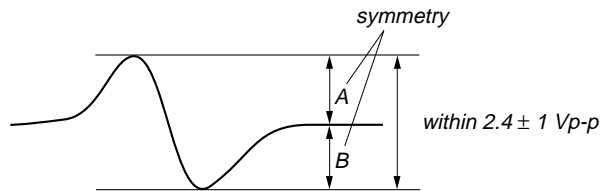
#### Connection:



#### Procedure:

1. Connect an oscilloscope to test point TP4 (FE) and TP7 (DVC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in and turned power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out)
4. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within  $2.4 \pm 1$  Vp-p.

#### S-curve waveform

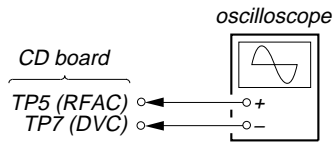


- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
  - Take sweep time as long as possible and light up the brightness to obtain best waveform.

**Checking Location:** CD board (SIDE B)  
(See page 24.)

**RFAC Level Check**

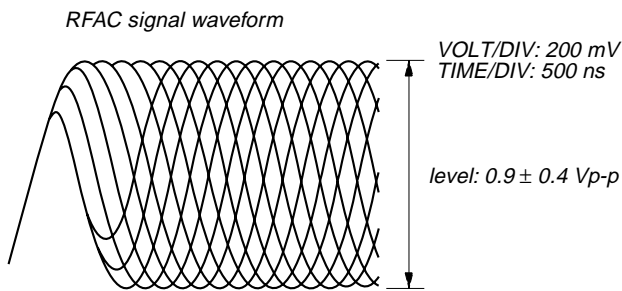
**Connection:**



**Procedure:**

1. Connect an oscilloscope to test point TP5 (RFAC) and TP7 (DVC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

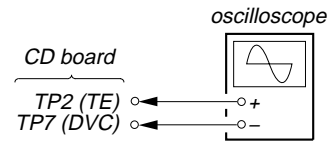
**Note:** A clear RFAC signal waveform means that the shape “ $\hat{\circ}$ ” can be clearly distinguished at the center of the waveform.



**Checking Location:** CD board (SIDE B)  
(See page 24.)

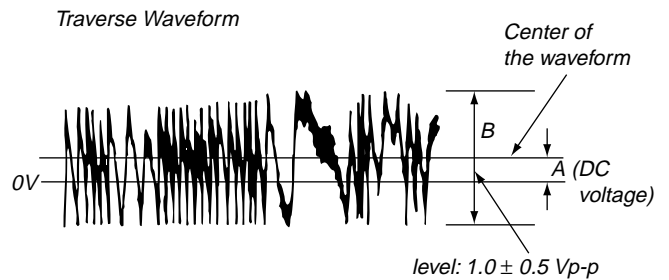
**E-F Balance Check**

**Connection:**



**Procedure:**

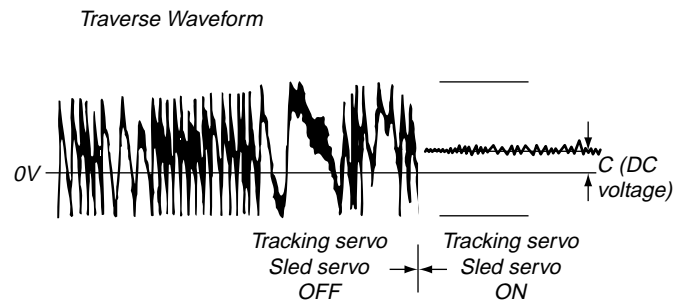
1. Connect an oscilloscope to test point TP2 (TE) and TP7 (DVC) on the CD board.
2. Turn the power on.
3. Select the function “CD”.
4. Press three buttons of [ENTER], [▶▶], and [SURROUND MODE] simultaneously to set the CD service mode.
5. Put the disc (YEDS-18) in to playback the number five track.
6. Press the [◀◀] button. The message “TRAVERSE” is displayed. (The tracking servo and the sledding servo are turned OFF)
7. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform. Confirm the following :  
 $A/B \times 100 = \text{less than } \pm 22\%$



8. Press the [◀◀] button. The message “TRAVERSE” is displayed. (The tracking servo and sledding servo are turned ON)  
Confirm the C (DC voltage) is almost equal to the A (DC voltage) is step 5.
9. To exit from this mode, perform as follows.
  - 1) Move the optical pick-up to the most inside track.
  - 2) Press three buttons of [■], [CLEAR], and [DISPLAY] simultaneously. (cold reset)

**Notes:**

- Always move the optical pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

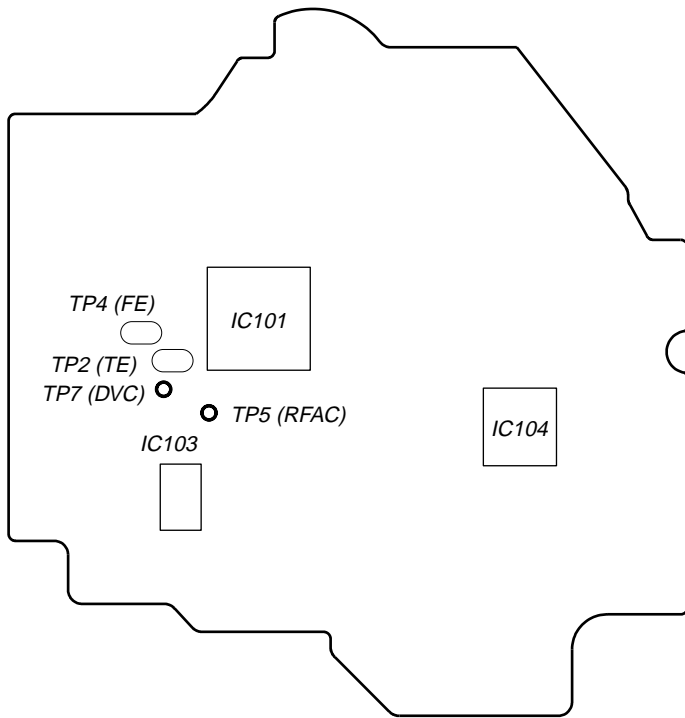


**Checking Location:** CD board (SIDE B) (See page 24.)

# MHC-GN900

Localização para verificação:




– PLACA CD (LADO B) –




















## SEÇÃO 7 DIAGRAMAS

### Nota nos diagramas esquemáticos :



- Todos os capacitores estão em  $\mu\text{F}$  a menos que especificados. pF:  $\mu\mu\text{F}$  50 WV ou menores não são indicados, exceto para os eletrolíticos e os de tântalo.
- Todos os resistores estão em  $\Omega$  e  $1/4\text{W}$  a menos que especificados diferentemente.
-  : componente interno
-  : resistor anti-chama.
-  : fusistor

### Nota:

Os componentes identificados com a marca  são críticos para a segurança. Somente os substitua por peças numericamente identificadas nesse manual.

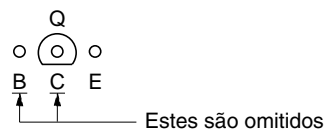
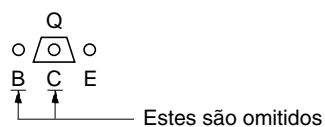
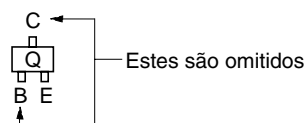
-  : designação do painel
-  : linha + B
-  : linha - B
-  : ajuste para reparo.
- Voltagens e formas de onda estão em DC, com relação ao terra, em condição de ausência de sinal.
- seção placa CD board section  
sem indicação: CD PLAY
- seção outras placas  
sem indicação: TUNER (FM/AM)
- ( ): CD PLAY
- < >: TAPE PLAY
- [ ]: TAPE REC
- Tensões são obtidas com VOM (impedância de entrada 10 M $\Omega$ ). Variações de tensão são verificadas dentro de uma faixa de tolerância;
- Formas de onda são obtidas com um osciloscópio. Variações de tensão são verificadas dentro de uma faixa de tolerância;
- Números circulares referem-se a formas de onda.
- Simbologia
  -  : TUNER (FM/AM)
  -  : TAPE PLAY (DECK A)
  -  : TAPE PLAY (DECK B)
  -  : RECORD
  -  : CD PLAY (ANALOG OUT)
  -  : CD PLAY (DIGITAL OUT)
  -  : MD/VIDEO (AUDIO) IN
  -  : GAME IN (AUDIO)
  -  : GAME IN (VIDEO)
  -  : MIC INPUT

### Notas para placas de circuito impresso:

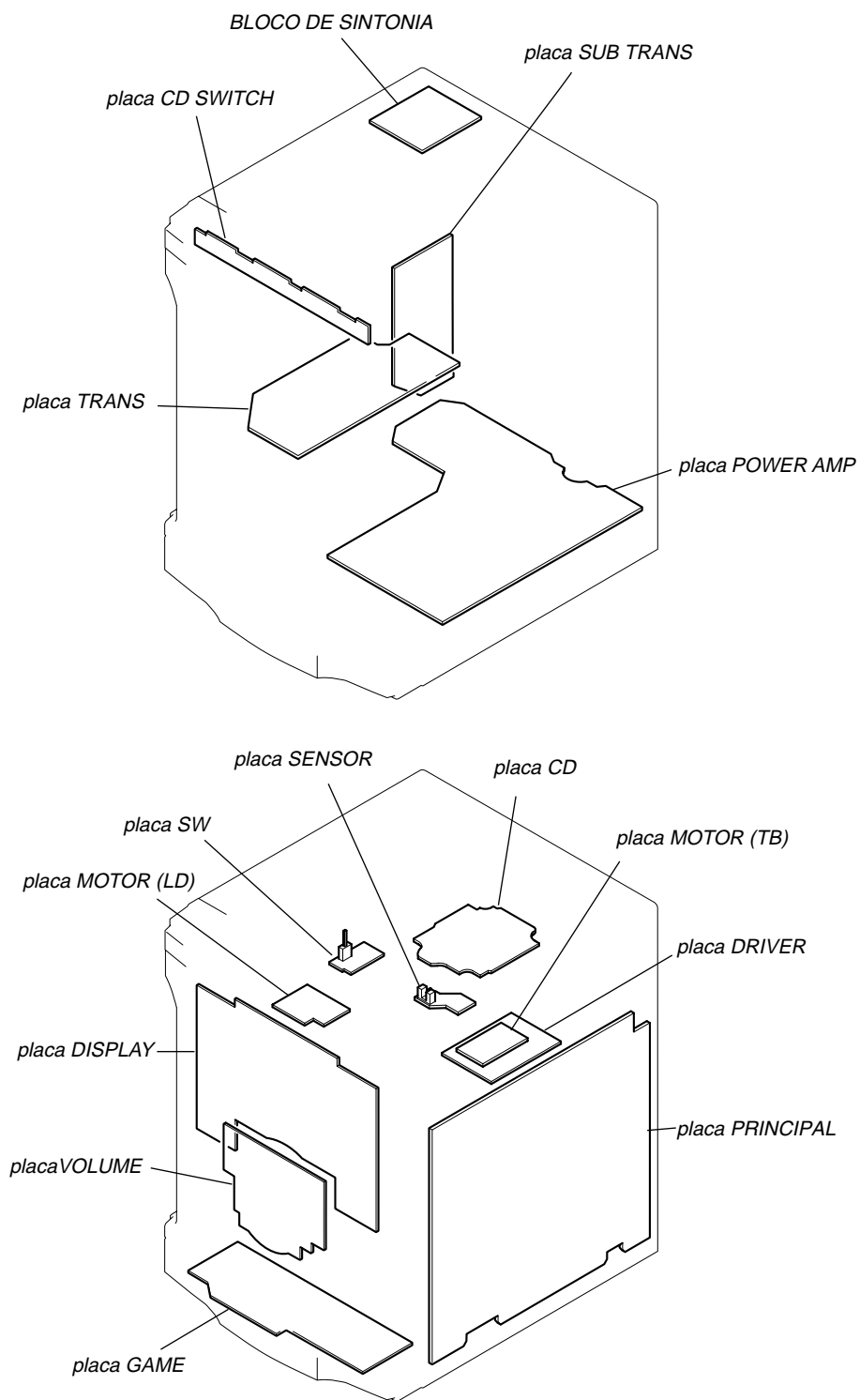
-  : peças extraídas do lado componente
-  : padrão da camada que é vista  
(Os outros padrões de camada não são indicados)

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.

- Indicação dos transistores

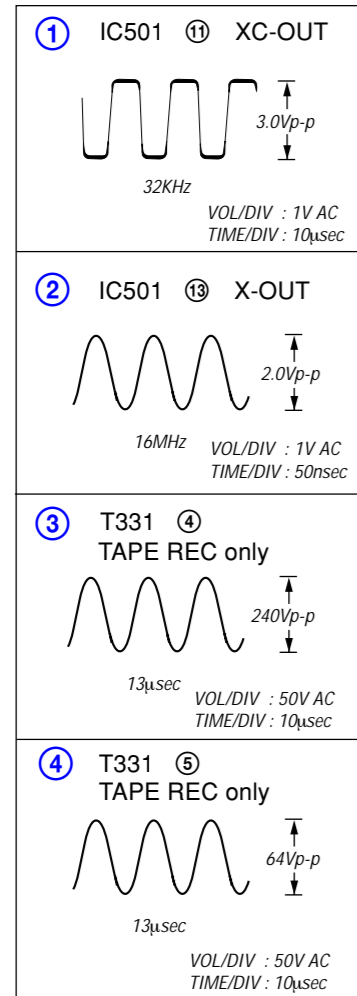


7-1. LOCALIZAÇÃO DAS PLACAS

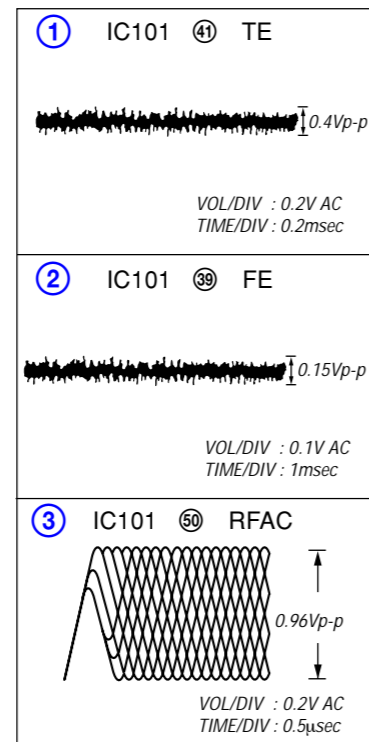


● FORMA DE ONDAS

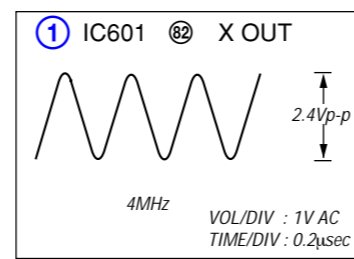
– PLACA PRINCIPAL –



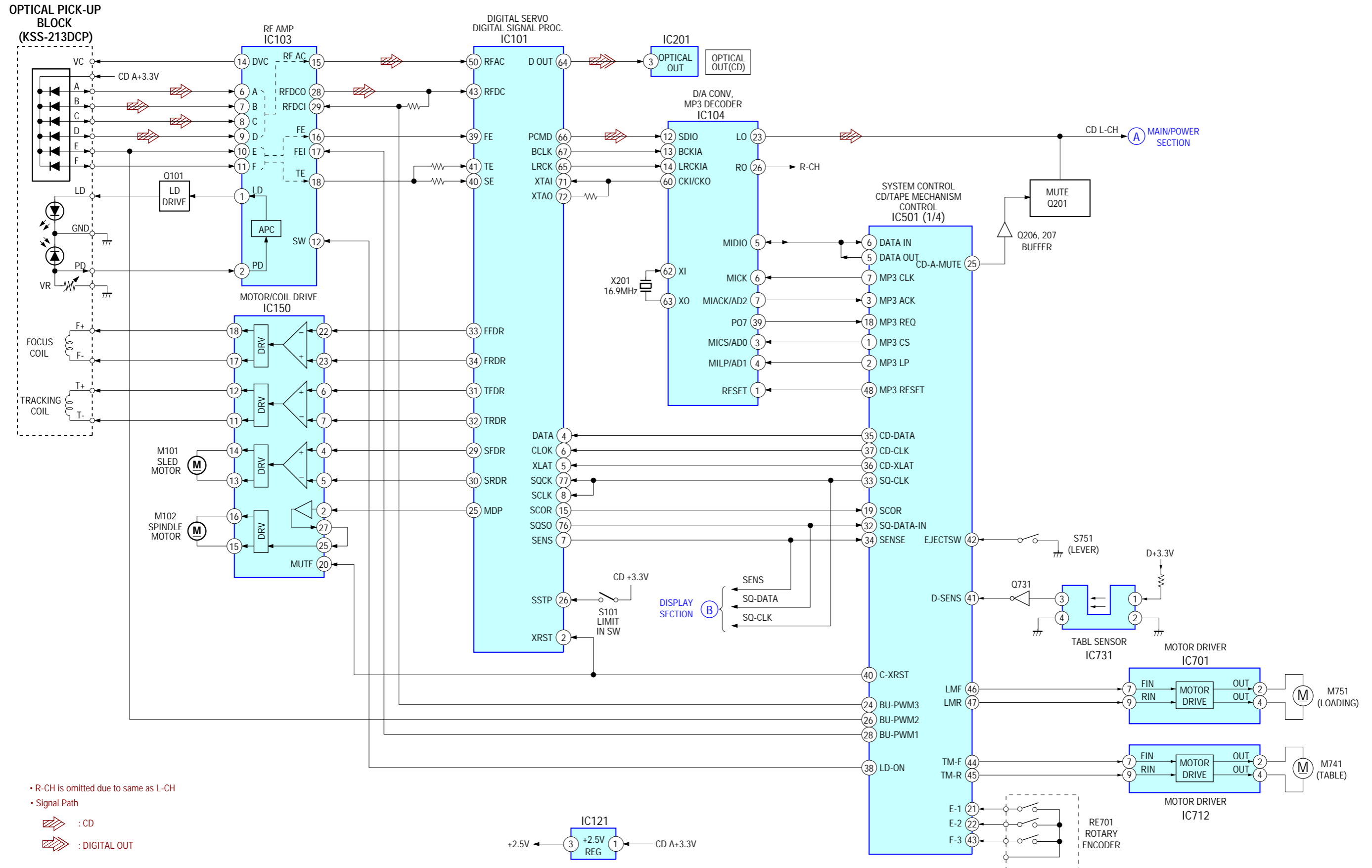
– PLACA CD –



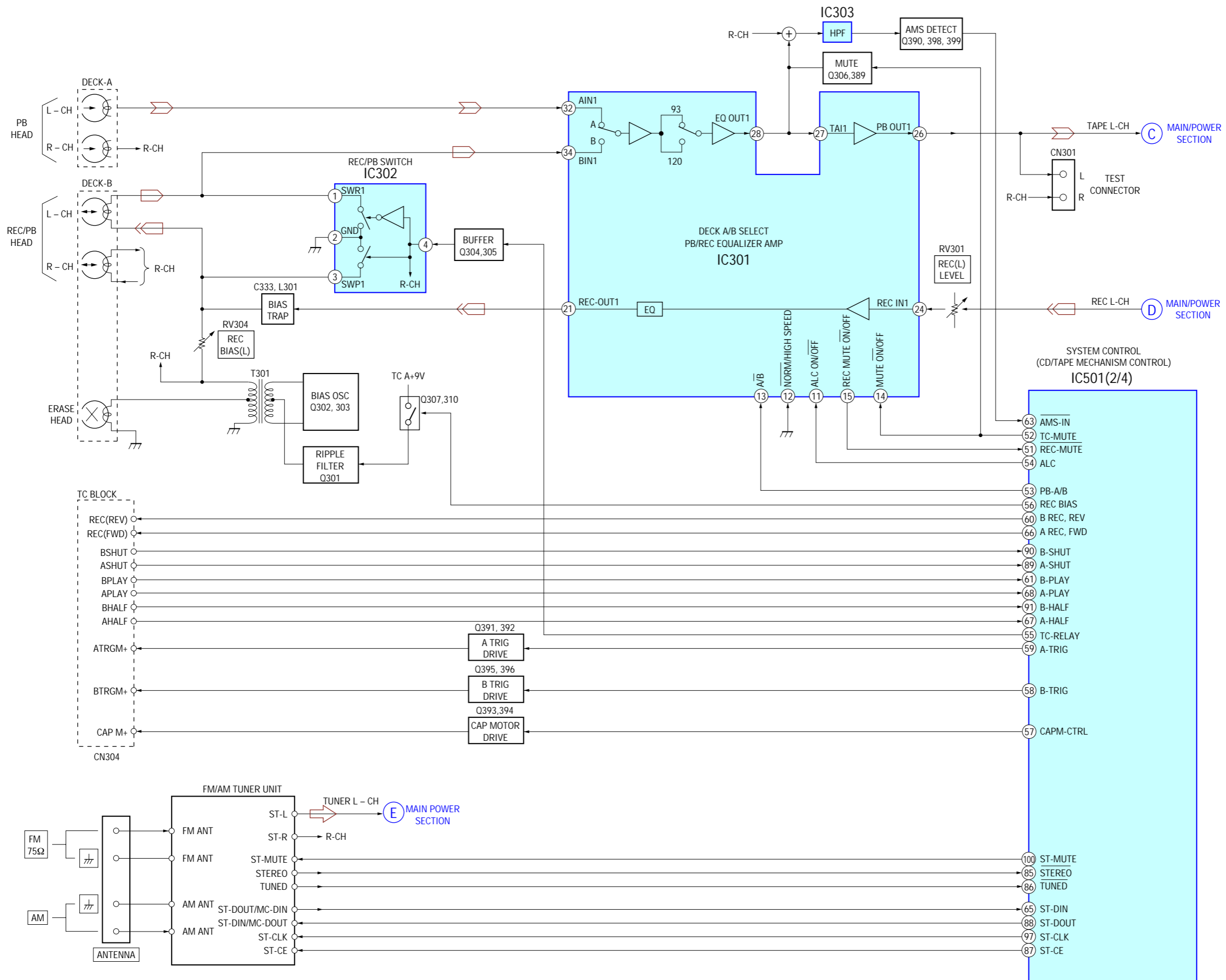
– PLACA DISPLAY –



7-2. DIAGRAMA EM BLOCO – Seção CD SERVO –



- Seção TUNER/TAPE DECK -

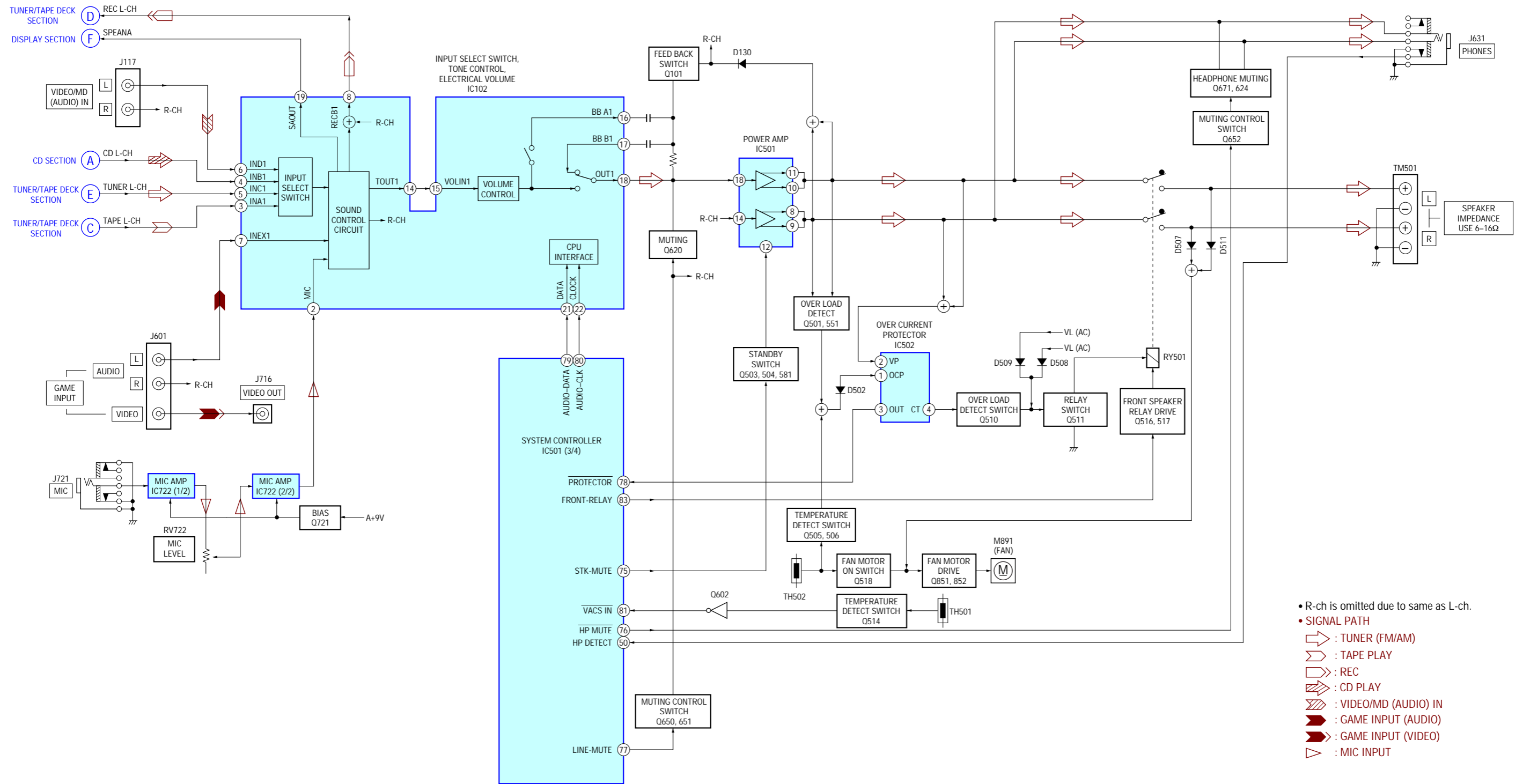


• R-ch is omitted due to same as L-ch.

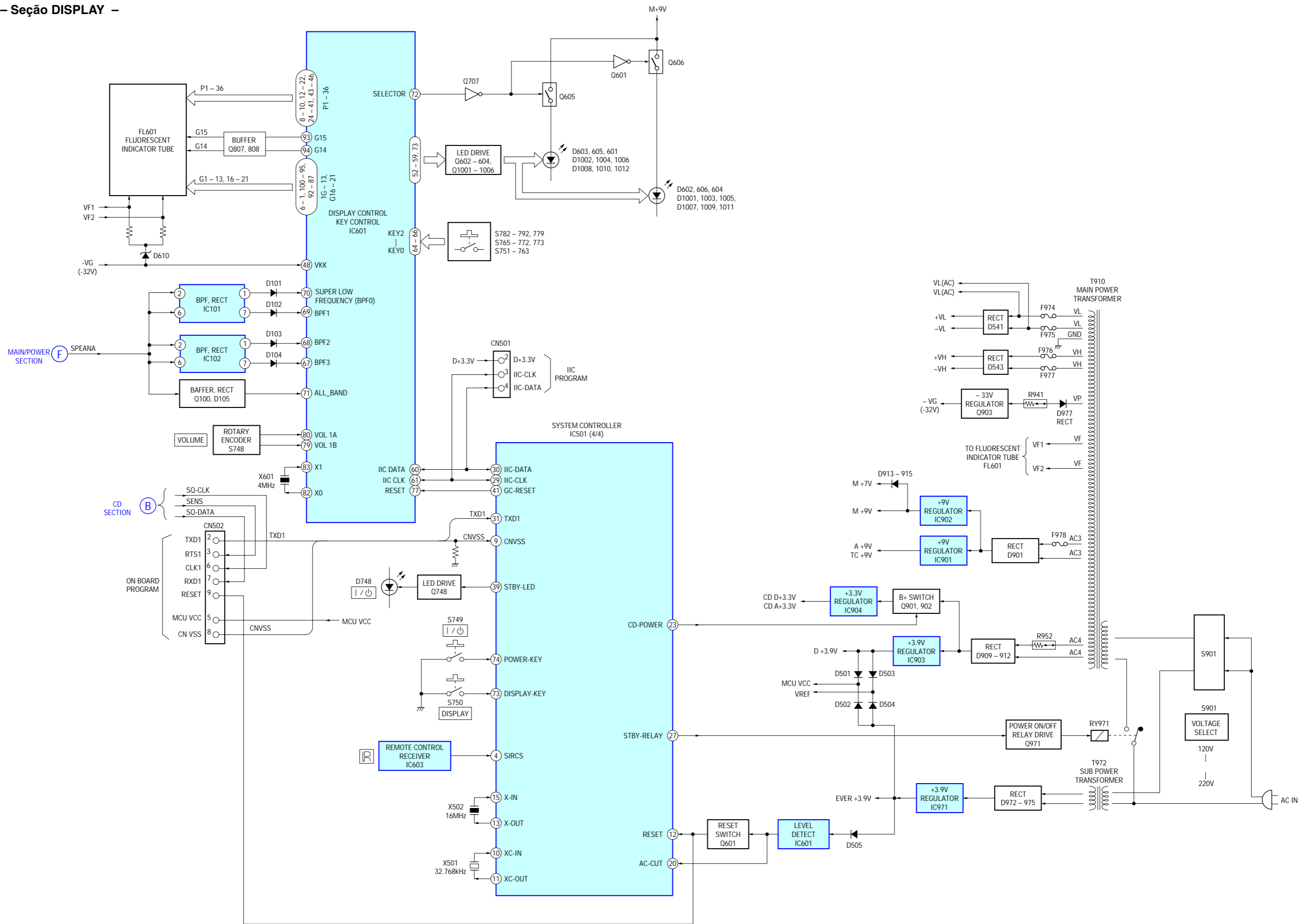
• SIGNAL PATH

- ➡ : TUNER (FM/AM)
- ➡ : PLAYBACK (DECK A)
- ➡ : PLAYBACK (DECK B)
- ➡ : RECORD

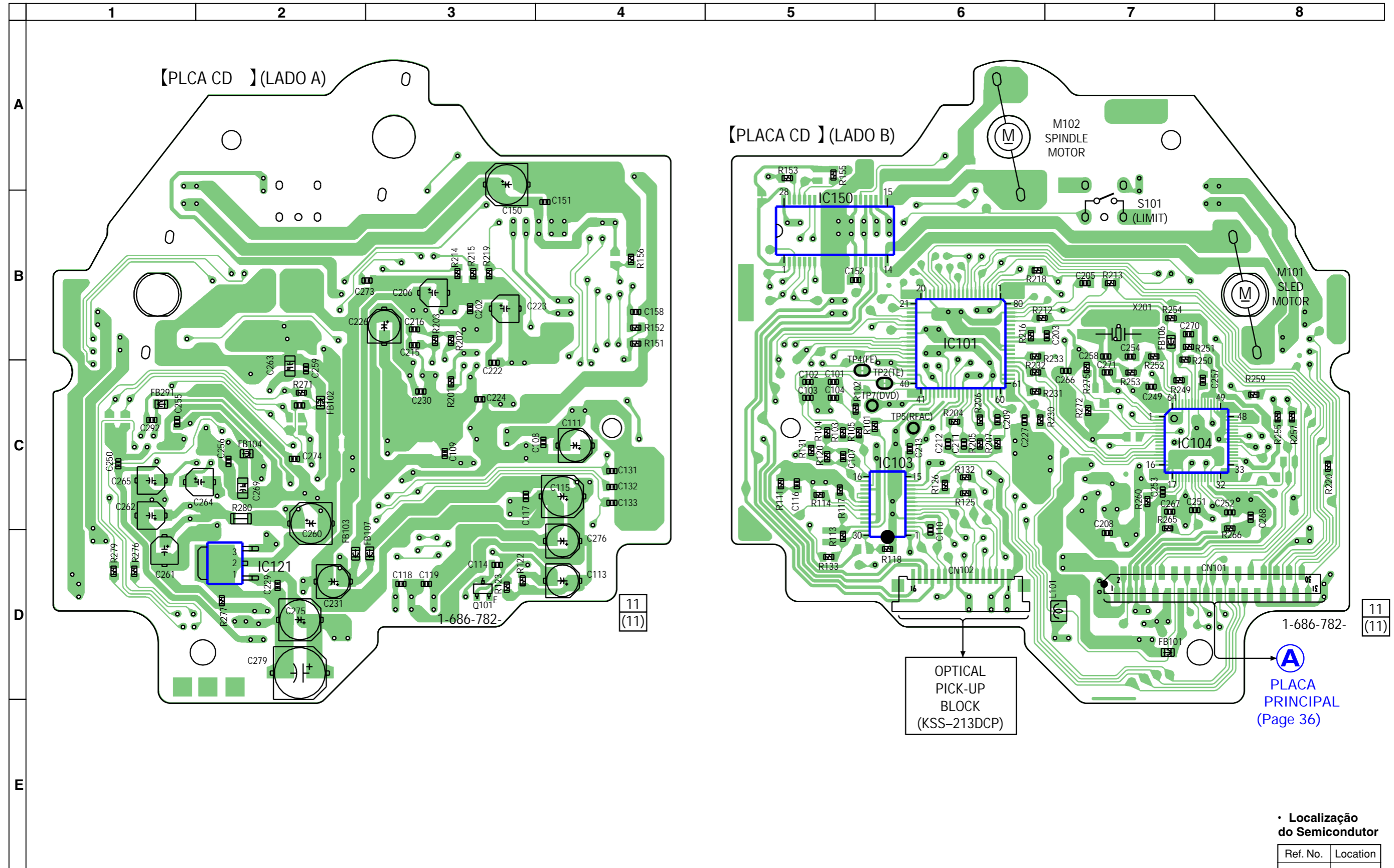
– Seção PRINCIPAL/POWER –



- Seção DISPLAY -



7-3. PLACA DE CIRCUITO IMPRESSO – Placa CD –

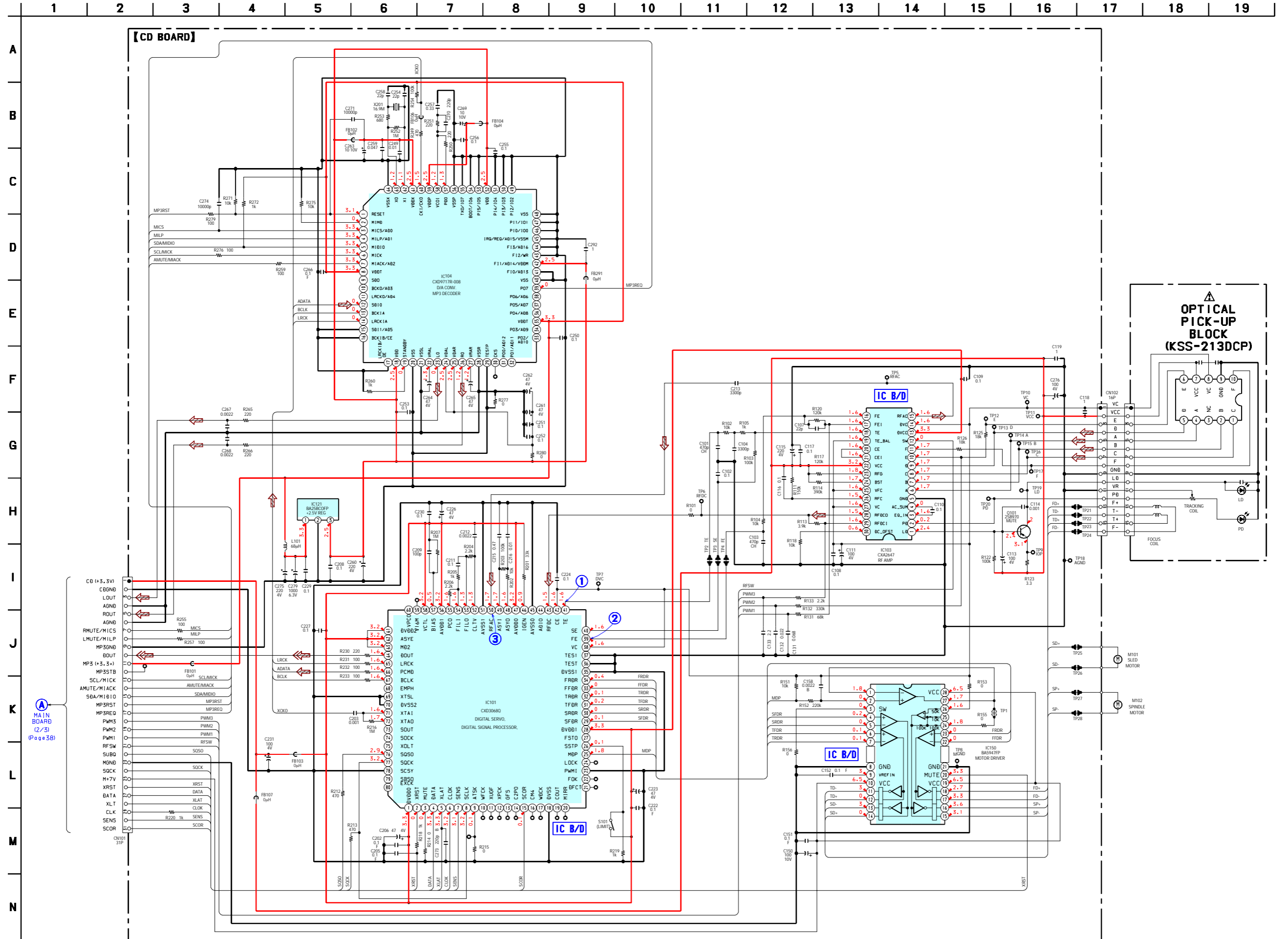


• Localização do Semicondutor

Ref. No.	Location
IC101	B-6
IC103	C-6
IC104	C-7
IC121	D-2
IC150	B-5
Q101	D-3



7-4. DIAGRAMA ESQUEMÁTICO - Placa CD -



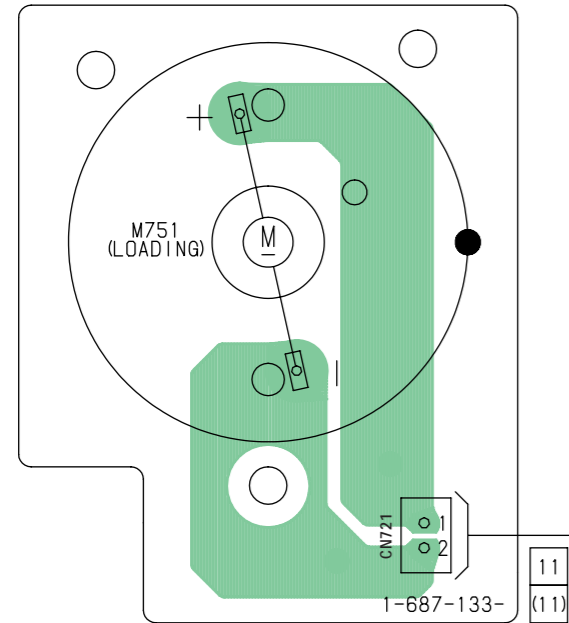
MAIN BOARD (2/3) (Page 38)

7-5. PLACA DE CIRCUITO IMPRESSO — Placa MECANISMO DO CD —

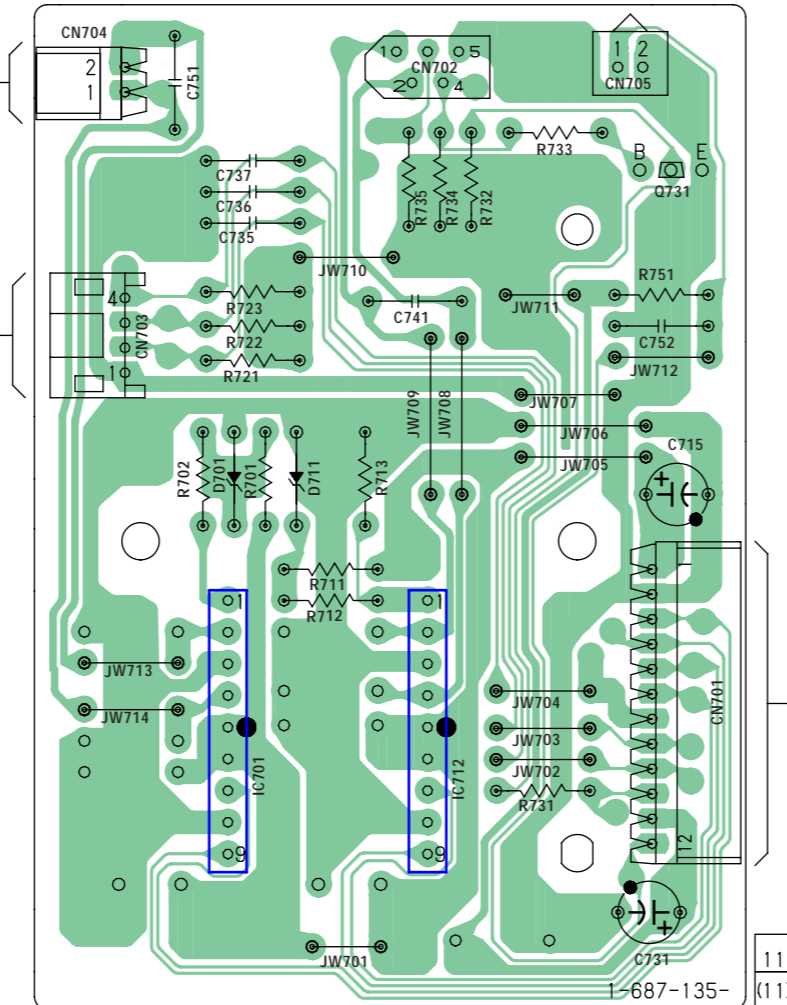
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A  
B  
C  
D  
E  
F  
G  
H

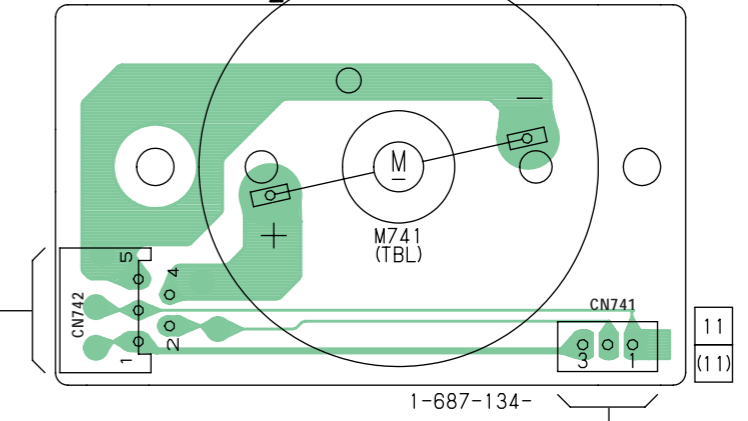
【MOTOR (LD) BOARD】



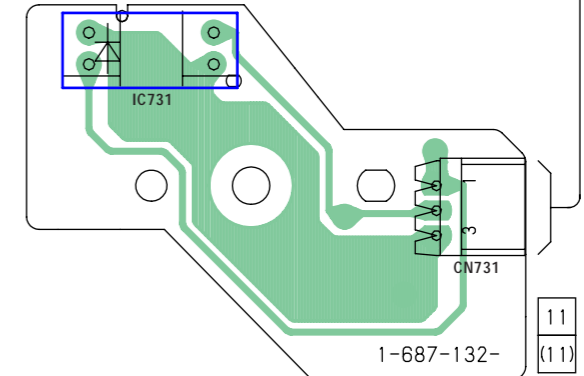
【DRIVER BOARD】



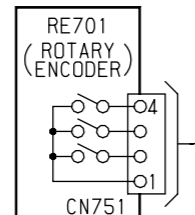
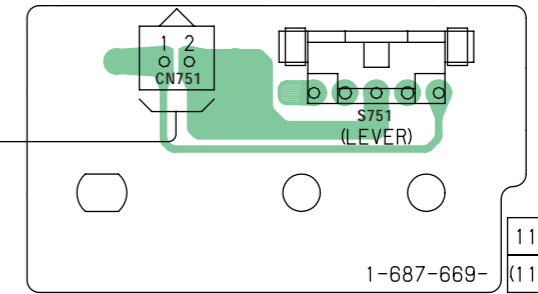
【MOTOR (TB) BOARD】



【SENSOR BOARD】



【SW BOARD】

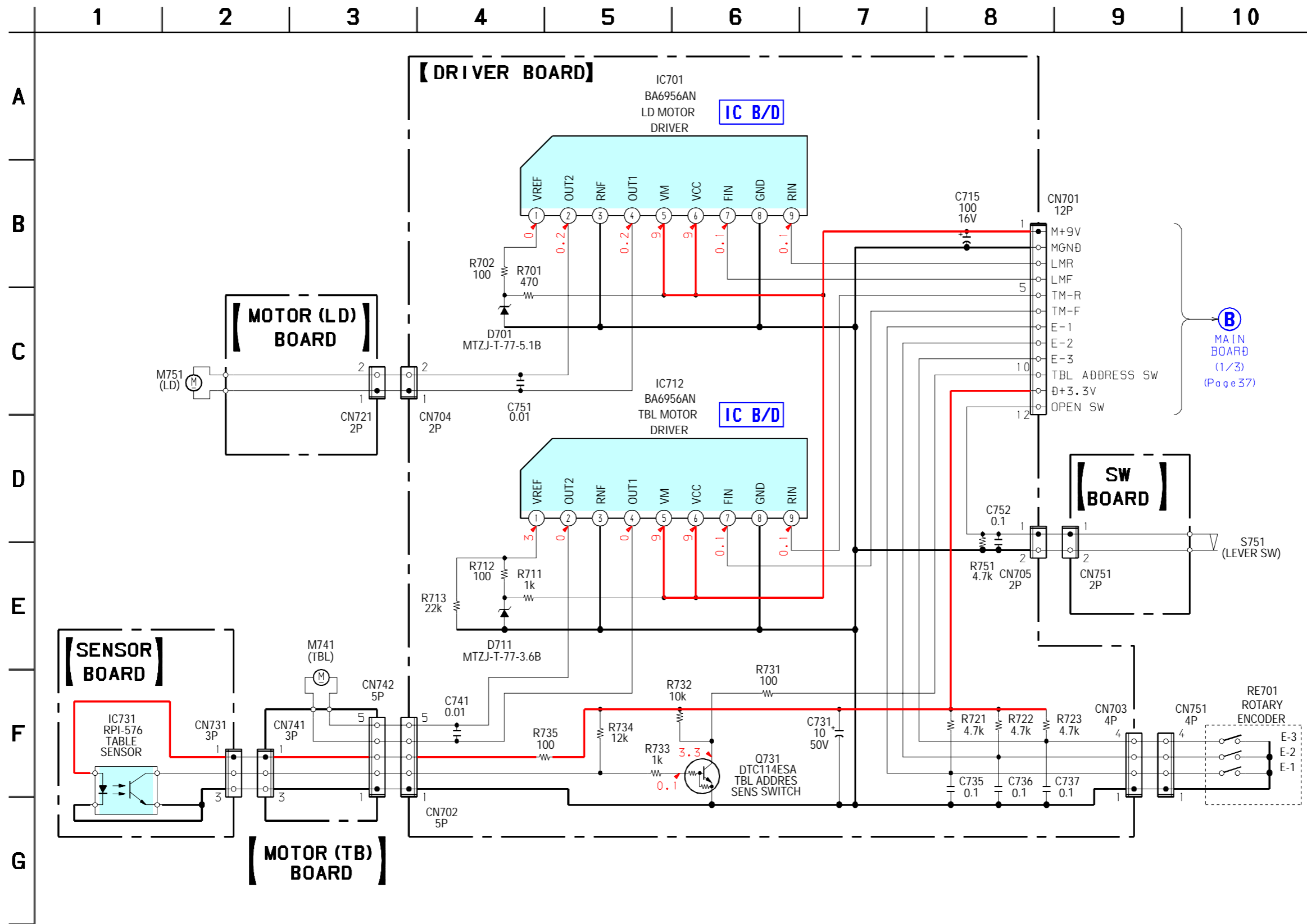


PLACA PRINCIPAL (Page 36)

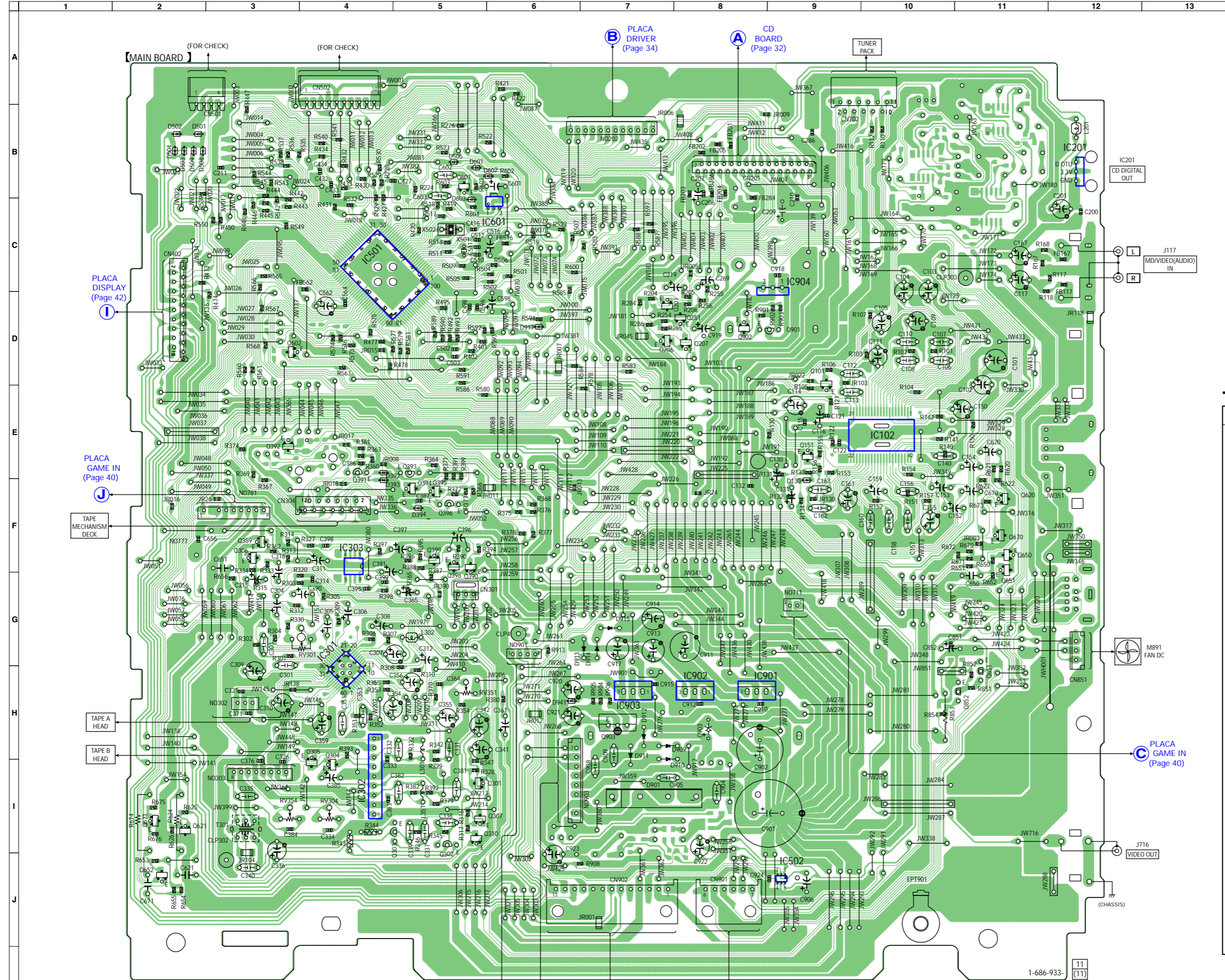
• Localização do Semicondutor

Ref. No.	Location
D701	D-6
D711	D-7
IC701	F-6
IC712	F-7
IC731	E-11
Q731	C-9

7-6. DIAGRAMA ESQUEMÁTICO – Placa MECANISMO DO CD –



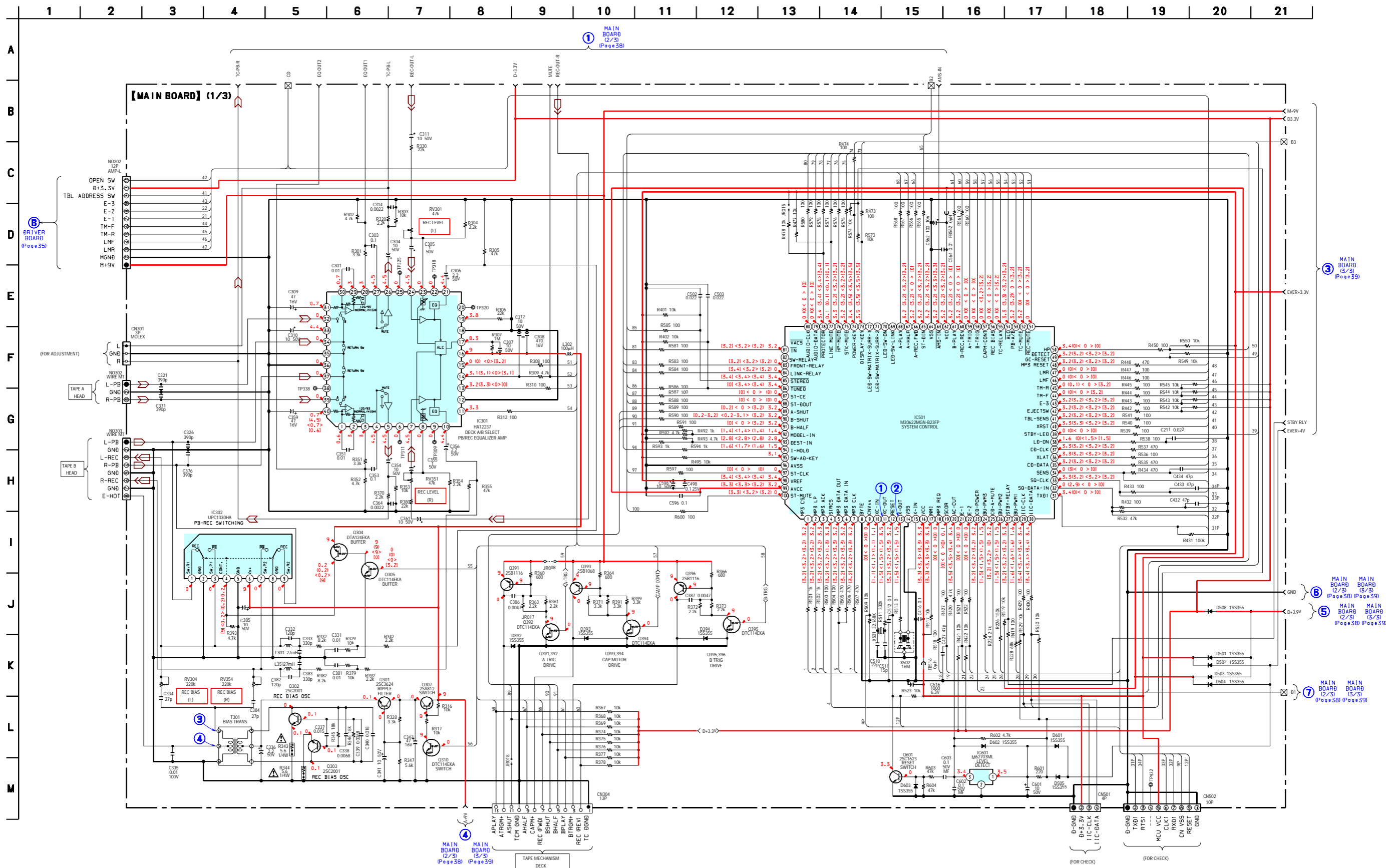
7-7. PLACA DE CIRCUITO IMPRESSO – Placa PRINCIPAL –



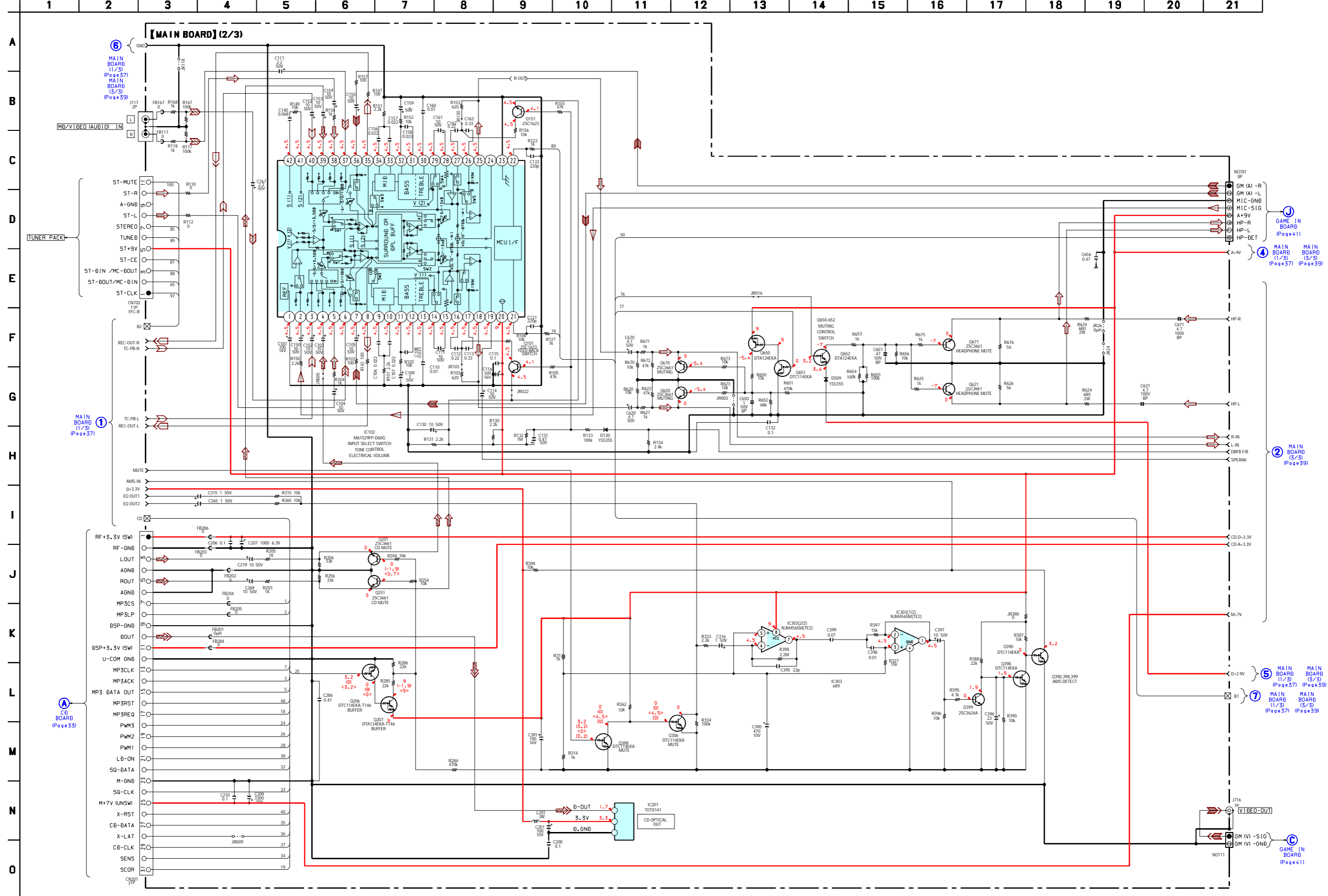
• Localização do Semicondutor

Ref. No.	Location	Ref. No.	Location
D130	F-9	Q101	D-9
D392	E-4	Q151	E-9
D393	F-4	Q201	D-7
D394	F-5	Q206	D-7
D501	B-2	Q207	D-8
D502	B-2	Q251	D-8
D503	B-2	Q301	I-5
D504	B-2	Q302	I-5
D505	B-5	Q303	I-5
D508	B-2	Q304	I-4
D509	B-2	Q305	I-4
D601	B-5	Q306	F-3
D602	B-6	Q307	I-5
D603	C-5	Q310	I-5
D901	I-7	Q389	F-3
D909	H-7	Q390	F-5
D910	H-7	Q391	E-4
D911	H-7	Q392	E-3
D912	H-7	Q393	E-5
D913	G-7	Q394	F-5
D914	G-7	Q395	F-5
D915	G-7	Q396	F-5
D917	D-6	Q398	F-5
D941	H-6	Q399	F-5
		Q601	B-5
		Q602	D-3
IC102	E-10	Q620	F-11
IC201	B-12	Q621	I-2
IC301	G-4	Q650	F-11
IC302	I-4	Q651	F-11
IC303	F-4	Q671	J-2
IC501	C-4	Q670	F-11
IC502	J-9	Q671	I-2
IC601	C-6	Q851	G-11
IC901	H-8	Q852	G-11
IC902	H-8	Q901	D-9
IC903	H-7	Q902	D-8
IC904	C-9	Q903	H-7

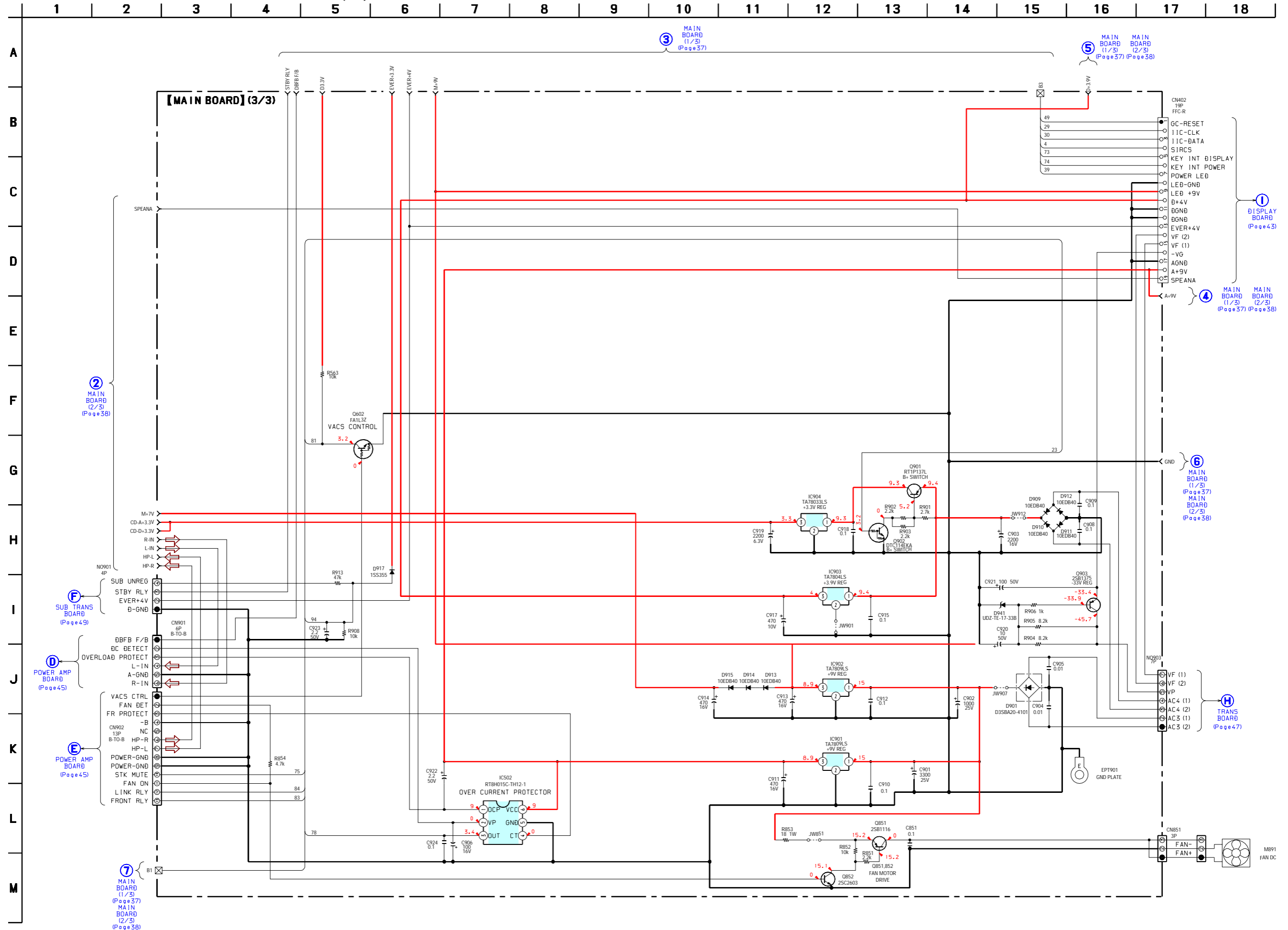
7-8. DIAGRAMA ESQUEMÁTICO – Placa PRINCIPAL (1/3) –



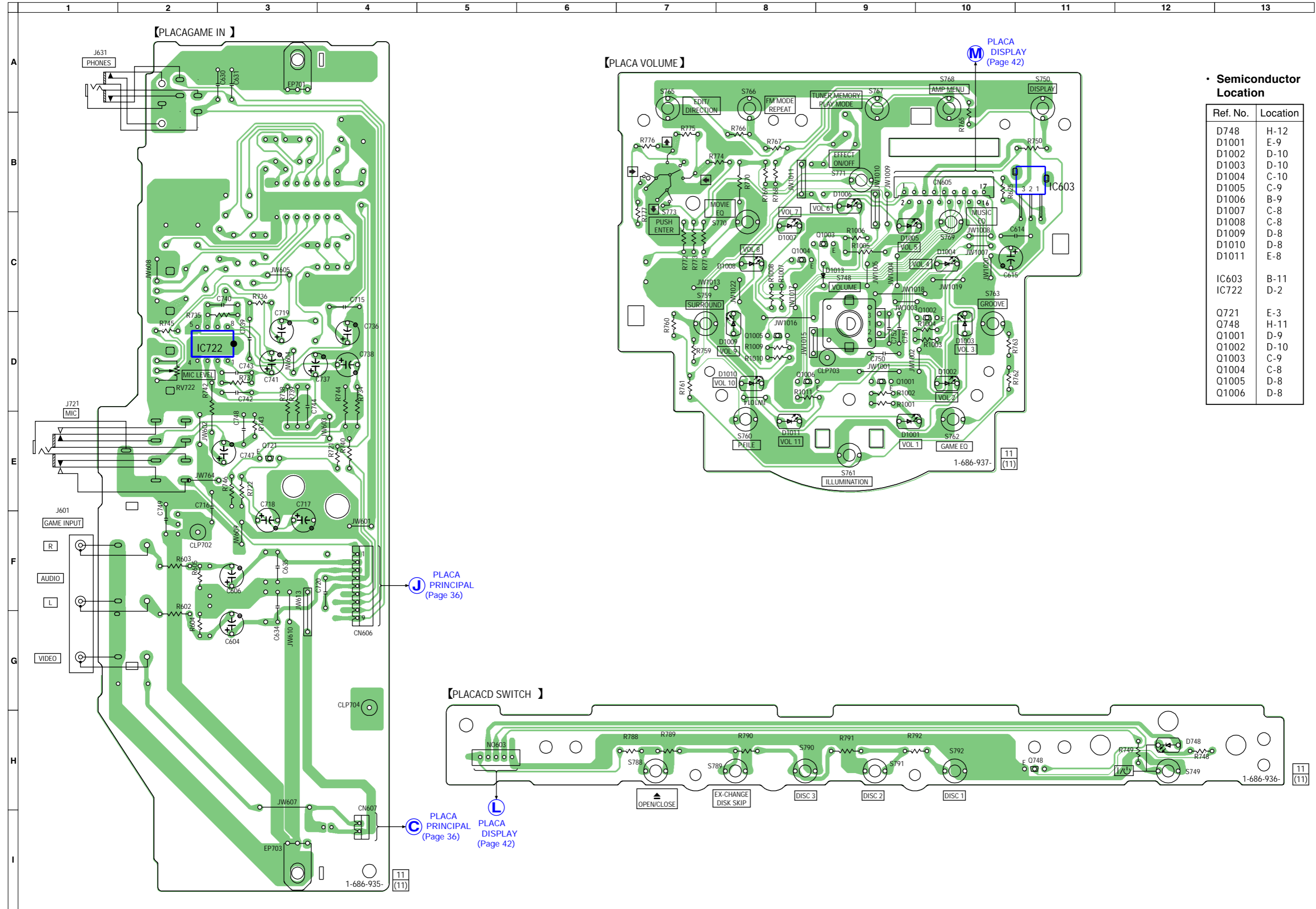
7-9. DIAGRAMA ESQUEMÁTICO – Plasca PRINCIPAL (2/3) –



7-10. DIAGRAMA ESQUEMÁTICO – Placa PRINCIPAL (3/3) –



7-11. PLACA DE CIRCUITO IMPRESSO – Placa GAME IN, CD SWITCH –

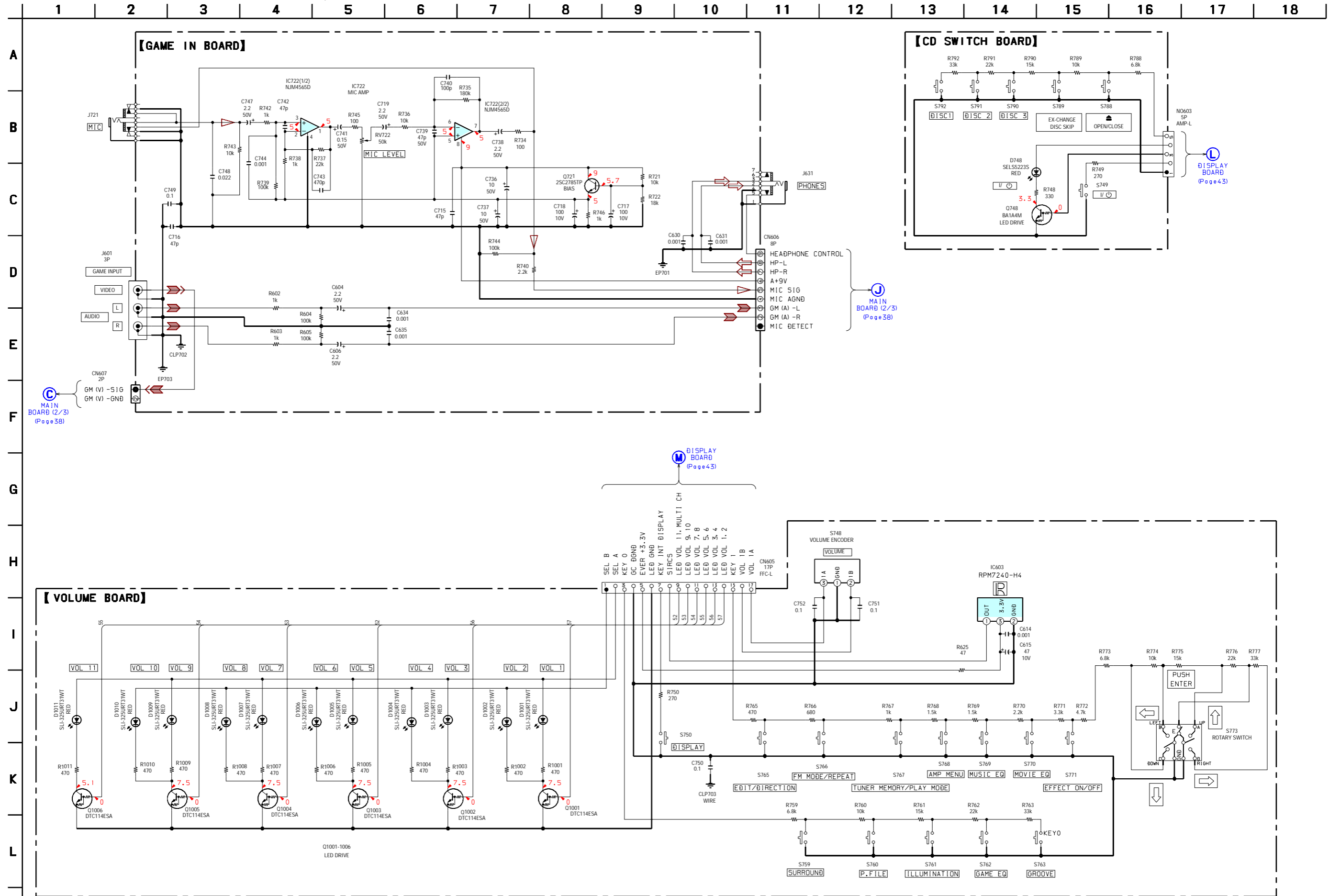


• Semiconductor Location

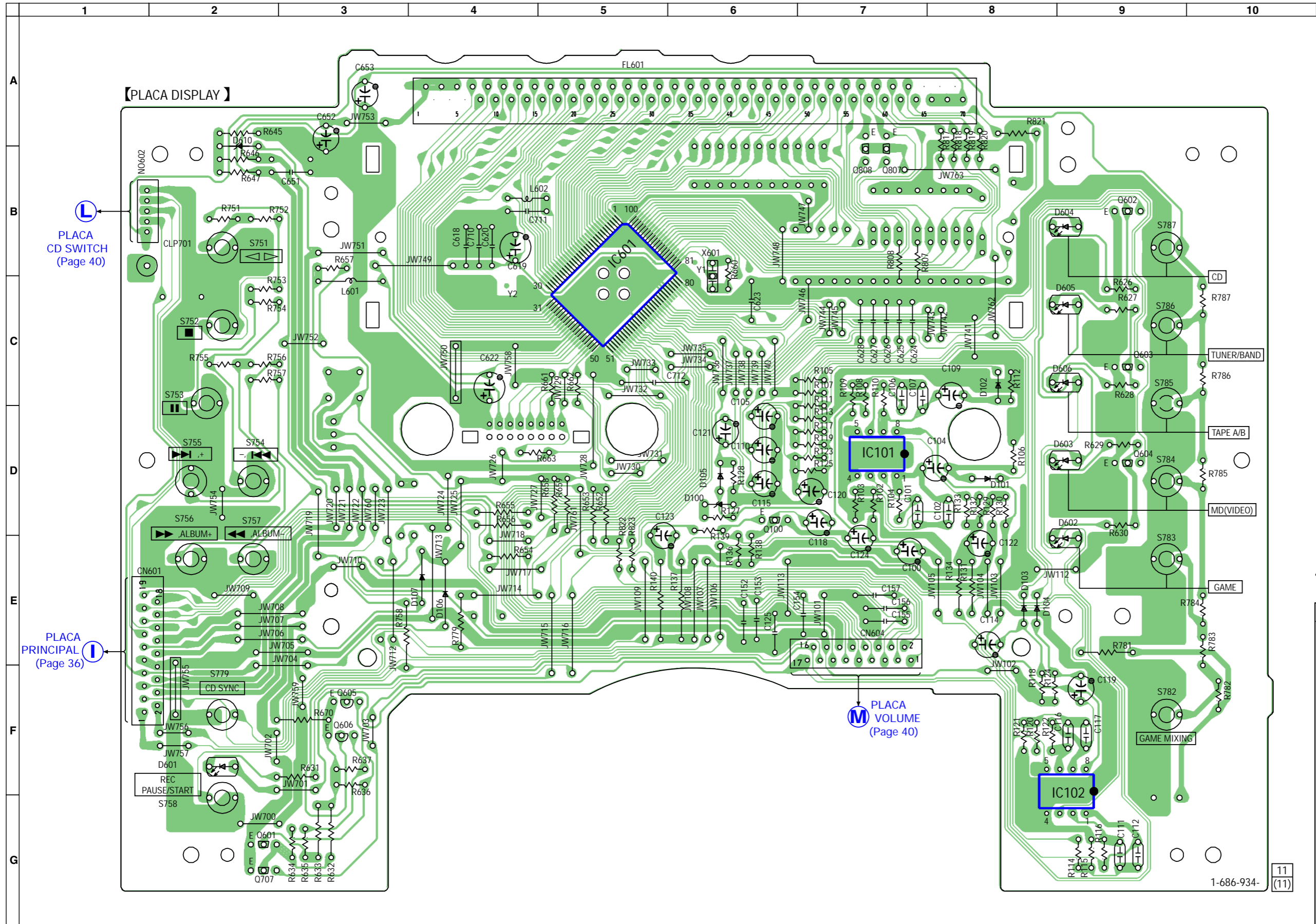
Ref. No.	Location
D748	H-12
D1001	E-9
D1002	D-10
D1003	D-10
D1004	C-10
D1005	C-9
D1006	B-9
D1007	C-8
D1008	C-8
D1009	D-8
D1010	D-8
D1011	E-8
IC603	B-11
IC722	D-2
Q721	E-3
Q748	H-11
Q1001	D-9
Q1002	D-10
Q1003	C-9
Q1004	C-8
Q1005	D-8
Q1006	D-8



7-12. DIAGRAMA ESQUEMÁTICO – Placa GAME IN, CD SWITCH –



7-13. PLACA DE CIRCUITO IMPRESSO – Placa DISPLAY –

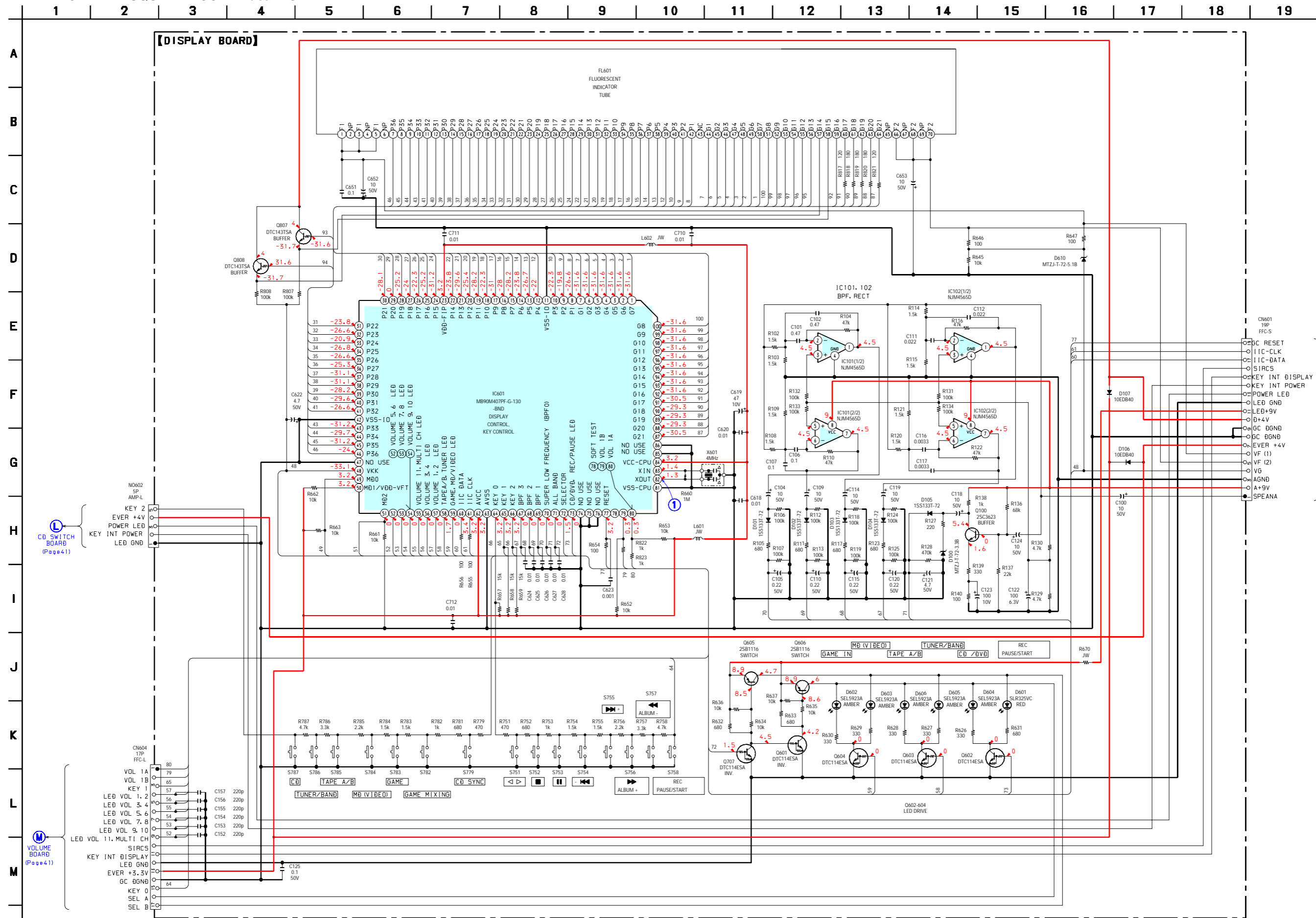


• Localização do Semicondutor

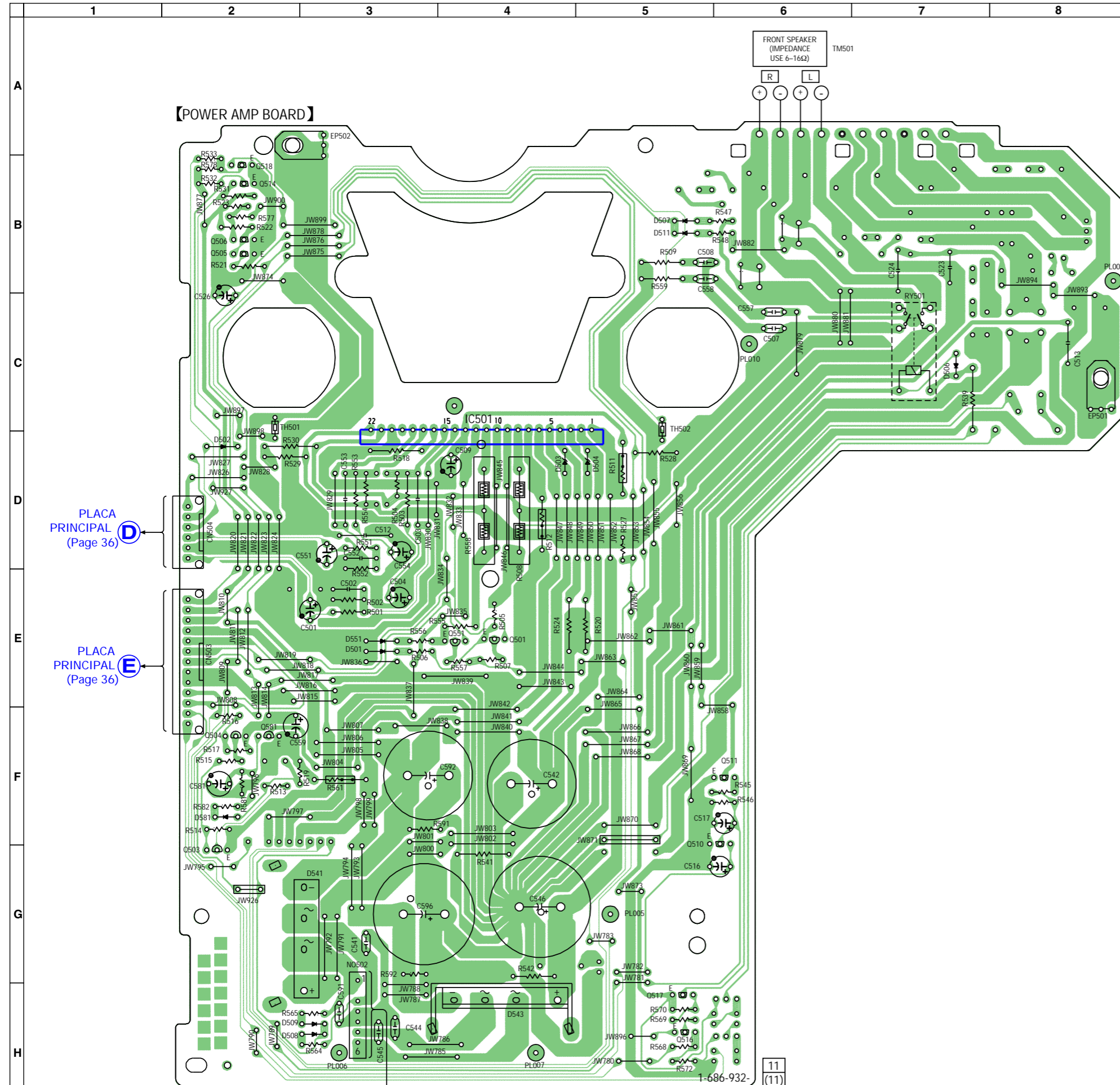
Ref. No.	Location
D100	D-6
D101	D-8
D102	C-8
D103	E-8
D104	E-8
D105	D-6
D106	E-4
D107	E-4
D601	F-2
D602	E-9
D603	D-9
D604	B-9
D605	C-9
D606	C-9
D610	A-2
IC101	D-7
IC102	F-9
IC601	B-5
Q100	D-6
Q601	G-2
Q602	B-9
Q603	C-9
Q604	D-9
Q605	F-2
Q606	F-2
Q707	G-2
Q807	B-7
Q808	B-7

11  
(11)

7-14. DIAGRAMA ESQUEMÁTICO – Placa DISPLAY –



7-15. PLACA DE CIRCUITO IMPRESSO – Placa POWER AMP –



11  
(11)

• Localização do semicondutor

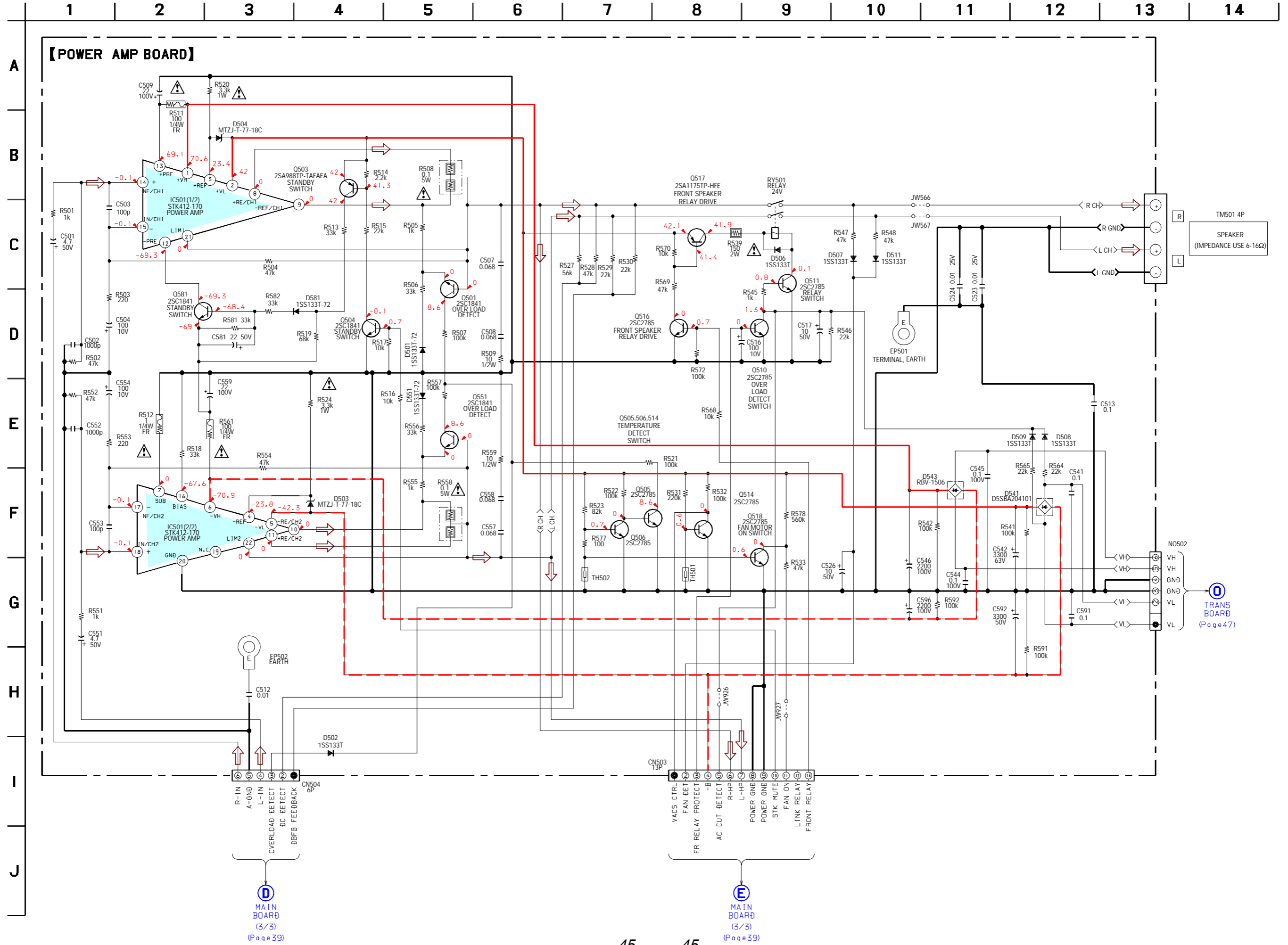
Ref. No.	Location
D501	E-3
D502	D-2
D503	D-4
D504	D-5
D506	C-7
D507	B-5
D508	H-2
D509	H-2
D511	B-5
D541	G-3
D543	H-4
D551	E-3
D581	F-2
IC501	D-4
Q501	E-4
Q503	G-2
Q504	F-2
Q505	B-2
Q506	B-2
Q510	F-6
Q511	F-6
Q514	B-2
Q516	H-5
Q517	H-5
Q518	B-2
Q551	E-4
Q581	F-2

PLACA PRINCIPAL (Page 36) **D**

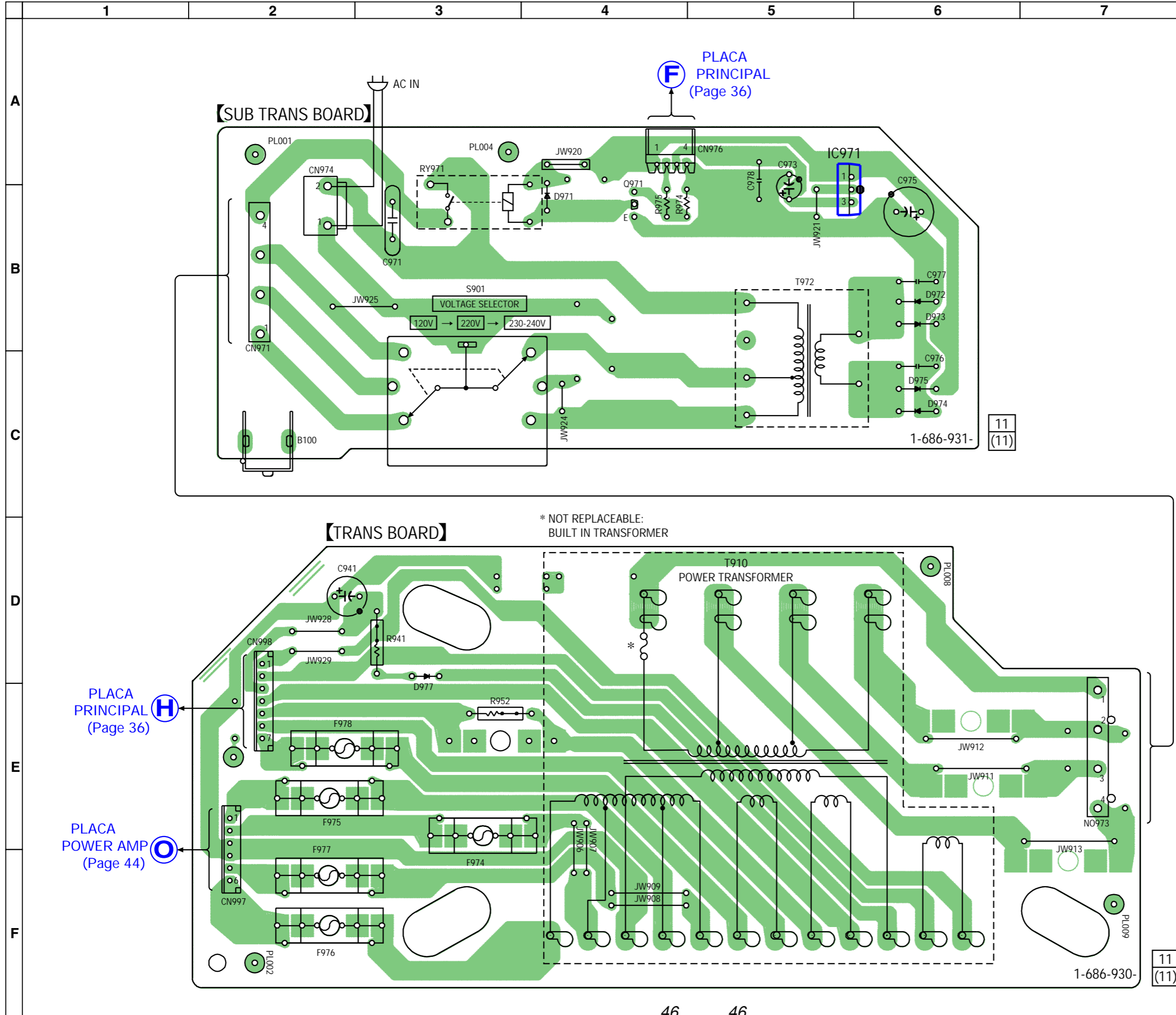
PLACA PRINCIPAL (Page 36) **E**

PLACA TRANS (Page 46)

7-16. DIAGRAMA ESQUEMÁTICO – Placa POWER –



7-17. PLACA DE CIRCUITO IMPRESSO – Placa TRANS –



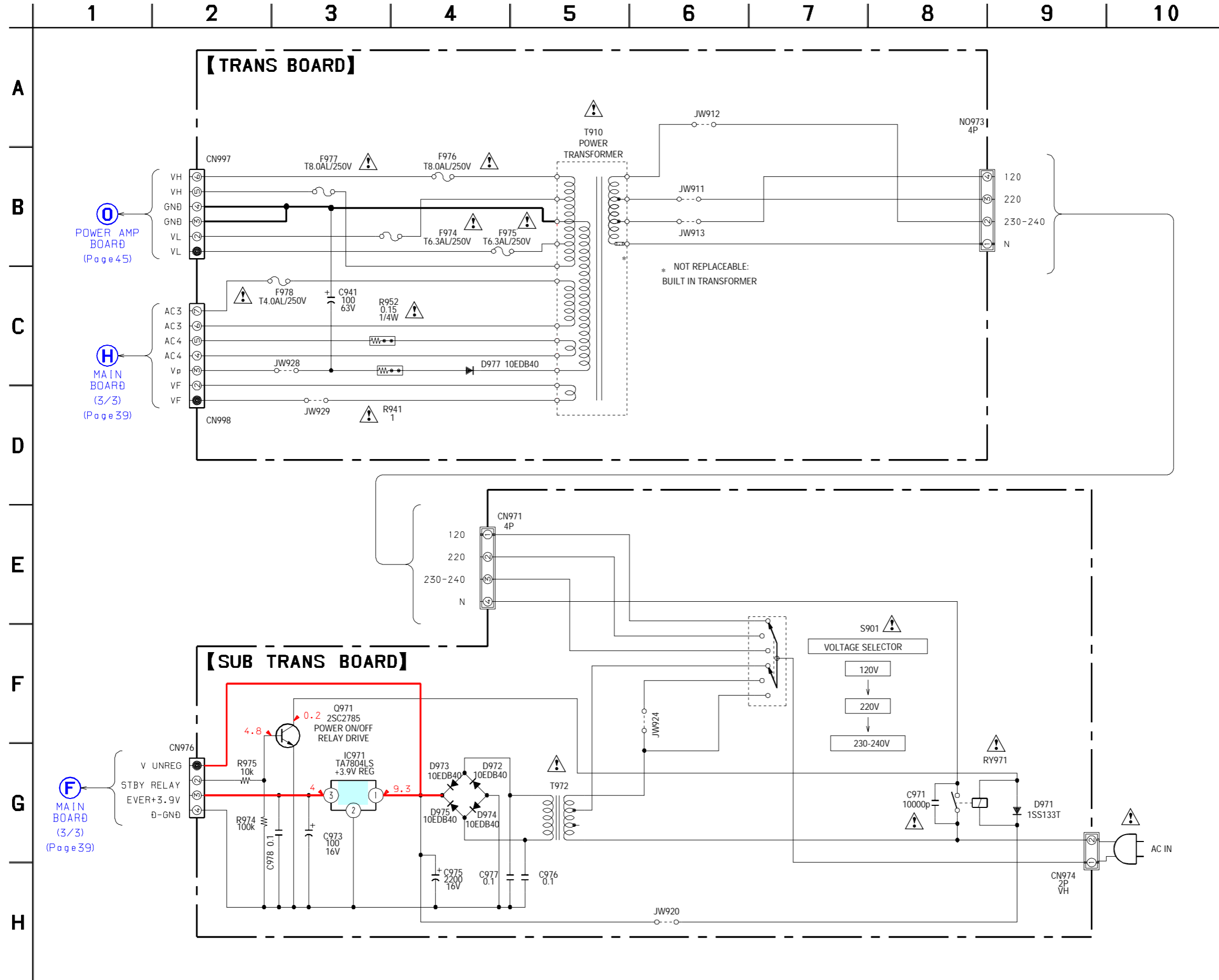
• Semiconductor Location

Ref. No.	Location
D971	B-4
D972	B-6
D973	B-6
D974	C-6
D975	C-6
D977	D-3
IC971	A-5
Q971	B-4

11  
(11)

11  
(11)

7-18. DIAGRAMA ESQUEMÁTICO – Placa TRANS –







**7-20. Descrições dos Funções de Pinod de IC****• IC104 CXD9717R-008 D/A Converter, MP3 Decoder (CD Board)**

Pin No.	Pin Name	I/O	Description
1	RESET	I	Reset input terminal "L": reset
2	MIMD	I	Microcomputer interface mode selection input "H": I2C, "L": TSB (fixed at "L")
3	MICS/AD0	I	Microcomputer interface chip select signal input
4	MILP/AD1	I	Microcomputer interface latch pulse input
5	MIDIO	I/O	Serial data input/output
6	MICK	I	Serial clock input
7	MIACK/AD2	O	Microcomputer interface acknowledge signal output
8	VDDT	-	Power supply (3.3V) for digital circuit
9	SDO	O	Data output (open)
10	BCKO/AD3	O	Bit output (open)
11	LRCKO/AD4	O	LR clock output (open)
12	SDI0	I	Data input 0
13	BCKIA	I	Bit clock input A
14	LRCKIA	I	LR clock input A
15	SDI1/AD5	I	Data input 1 (fixed at "L")
16	BCKIB/CE	I	Bit clock input B (fixed at "L")
17	LRCKIB/OE	I	LR clock input B (fixed at "L")
18	VDD	-	Power supply (2.5V) for digital circuit
19	STANDBY	I	Standby mode control signal input "H": STB, "L": normal (fixed at "H")
20	VSS	-	Ground for digital circuit
21	VSSL	-	Ground for DAC Lch
22	VRAL	-	Reference voltage terminal for DAC Lch
23	LO	O	DAC Lch signal output
24	VDAL	-	Power supply (2.5V) for DAC Lch
25	VDAR	-	Power supply (2.5V) for DAC Rch
26	RO	O	DAC Rch signal output
27	VRAR	-	Reference voltage terminal for DAC Rch
28	VSSR	-	Ground for DAC Rch
29	TESTP	I	Terminal for test "H": test mode, "L": normal (fixed at "L")
30	CSK	O	SPDIF signal output (open)
31 to 34	PO0/AD12 to PO3/AD09	O	General purpose output (open)
35	VDDT	-	Power supply (3.3V) for digital circuit
36	PO4/AD8	O	General purpose output (open)
37	PO5/AD7	O	General purpose output (open)
38	PO6/AD6	O	General purpose output (open)
39	PO7	O	Interrupt request signal output to the system control
40	VSS	-	Ground for digital circuit
41	FI0/AD13	I	External interrupt signal input (fixed at "L")
42	FI1/AD14/VDDM	-	Power supply (2.5V) for the internal 1Mbit SRAM
43	FI2/WR	I	Flag signal input 0 (fixed at "L")
44	FI3/AD16	I	Flag signal input 1 (fixed at "L")
45	VSSM	-	Ground for the internal 1Mbit SRAM
46, 47	PI0, PI1	I	General purpose input (fixed at "L")
48	VSS	-	Ground for digital circuit
49, 50	PI2/IO2, PI3/IO3	I	General purpose input (fixed at "L")
51	PI4/IO4	I	General purpose input (fixed at "L")
52	VDD	-	Power supply (2.5V) for digital circuit
53	PI5/IO5	I	General purpose input/SUBQ interface data input (fixed at "L")

<b>Pin No.</b>	<b>Pin Name</b>	<b>I/O</b>	<b>Description</b>
54	BOOT/IO6	I	Terminal for test/SUBQ interface frame sync input (fixed at "L")
55	TXO/IO7	I	Flag signal input 2/SUBQ interface block sync input (fixed at "L")
56	VSSP	–	Ground for VCO circuit
57	PDO	O	PLL phase error detection signal output
58	VCOI	I	VCO control voltage input
59	VDDP	–	Power supply (2.5V) for VCO circuit
60	CKO	O	External clock output
61	VDDX	–	Power supply (2.5V) for oscillation circuit
62	XI	I	Resonator terminal (input)
63	XO	O	Resonator terminal (output)
64	VSSX	–	Ground for oscillation circuit

• IC501 M30622MGN-B23FP SYSTEM CONTOL (MAIN Board)

Pin No.	Pin Name	I/O	Description
1	MP3 CS	O	MP3 chip select signal output
2	MP3 LP	O	MP3 latch pulses output
3	MP3 ACK	I	MP3 acknowledge signal input
4	SIRCS	I	SIRCS input
5	MP3 DATA OUT	O	Serial data output
6	MP3 DATA IN	I	Serial data input
7	MP3 CLK	O	Serial clock output
8	BYTE	I	Not used (connected to ground)
9	CNVSS	—	Not used (Connected to ground with resistor)
10	XC-IN	I	Sub clock input
11	XC-OUT	O	Sub clock output
12	RESET	I	System reset input
13	X-OUT	O	Main system clock output (16MHz)
14	VSS	—	Ground
15	X-IN	I	Main system clock input (16MHz)
16	VCC	—	Power supply (+5V)
17	NMI	I	Not used (Pull up with resistor)
18	MP3 REQ	I	Interrupt request signal input
19	SCOR	I	Subcode sync (S0+S1) detection signal input
20	AC-CUT	I	AC cut check signal input
21	E-1	I	Disc tray status detection signal input
22	E-2	I	Disc tray status detection signal input
23	CD-POWER	O	CD power on/off signal output
24	BU-PWM3	O	BU PWM 3 (for CD-RW) signal output
25	CD-A-MUTE	O	CD mute signal output
26	BU-PWM2	O	BU PWM 2 (for CD-RW) signal output
27	STBY-RELEY	O	Reley drive signal output
28	BU-PWM1	O	BU PWM 1 (for CD-RW) signal output
29	IIC-CLK	I	IIC serial data clock input
30	IIC-DATA	I	IIC serial data input
31	TXD1	—	Not used
32	SQ-DATA	I	Subcode Q data input
33	SQ-CLK	O	Subcode Q data reading clock signal output
34	SENS	I	SENS signal input from CXD3068Q
35	CD-DATA	O	CD data output
36	XLAT	O	CD latch signal output
37	CD-CLK	O	CD data clock output
38	LD-ON	O	Laser diode control signal output
39	STBY-LED	O	Standby LED drive signal output
40	XRST	O	CD reset signal output
41	TBL-SENS	I	Table sensor signal input
42	EJECTSW	I	Eject switch signal input
43	E-3	I	Disc tray status detection signal input
44	TM-F	O	Table motor control signal output
45	TM-R	O	Table motor control signal output
46	LMF	O	Loading motor control signal output
47	LMR	O	Loading motor control signal output
48	MP3 RESET	O	MP3 reset signal output
49	GC-RESET	O	GC reset signal output
50	HP DETECT	I	Headphone detect input
51	REC-MUTE	O	REC mute signal output
52	TC-MUTE	O	TC line mute signal output
53	PB-A/B	O	TC A/B select signal output

Pin No.	Pin Name	I/O	Discription
54	ALC	O	ALC signal output
55	TC-RELAY	O	REC/PB selection signal output
56	REC BIAS	O	Bias on/off signal output
57	CAPM-CONT	O	Capstan motor REV/FWD/STOP control signal output
58	B-TRIG	O	TCM-B Trigger output
59	A-TRIG	O	TCM-A trigger output
60	B-REC, REV	O	Record tab switch for SIDE B signal output
61	B-PLAY	I	TCM-B play switch input
62	VCC	—	Power supply (+3.3V)
63	AMS-IN	I	AMS signal input
64	VSS	—	Ground
65	ST-DIN	I	Tuner data input
66	A-REC, FWD	O	Record tab switch for SIDE A signal output
67	A-HALF	I	A deck half detection signal input
68	A-PLAY	I	TCM-A play switch input
69	LED-SW-LINK	O	Subwoofer LED drive signal output (open)
70	LED-SW-ON	O	Subwoofer LED drive signal output (open)
71	LED-MATRIX-SURR-2	O	Subwoofer LED drive signal output (open)
72	LED-MATRIX-SURR-1	O	Subwoofer LED drive signal output (open)
73	KEY-DISPLAY	I	DISPLAY key signal input
74	POWER-KEY	I	Power key signal input
75	STK-MUTE	O	Mute signal output to power IC
76	HP-MUTE	O	Headphone mute signal output
77	LINE-MUTE	O	TA LINE mute signal output
78	PROTECT	I	Speaker protection signal input
79	AUDIO-DATA	O	Serial data output to Audio EQIC
80	AUDIO-CLK	O	Serial data clock output to Audio EQIC
81	VACS IN	I	VACS signal input
82	SW-RELAY	O	Subwoofer relay control signal output (open)
83	FRONT-RELAY	O	Front speaker relay driver signal output
84	LINK-RELAY	O	Surround speaker relay driver signal output
85	STEREO	I	Stereo signal input
86	TUNED	I	Tuned signal input
87	ST-CE	O	Tuner chip enable signal output
88	ST-DOUT	O	Tuner data output
89	A-SHUT	I	TCM-A reel pulse input
90	B-SHUT	I	TCM-B reel pulse input
91	B-HALF	I	B deck half detection input
92	MODEL-IN	I	Model input
93	DEST-IN	I	Destination input
94	I-HOLD	I	Over-voltage protection detection input termnal
95	SW-AD-KEY	I	Subwoofer key signal input (fixed at "H")
96	AVSS	—	Ground
97	ST-CLK	O	Tuner clock signal output
98	VREF	I	Reference voltage input
99	AVCC	—	Power supply (+3.3V)
100	ST-MUTE	O	Tuner mute signal output

## • IC601 MB90M407APF-G-130-BND DISPLAY CONTROL (DISPLAY Board)

Pin No.	Pin Name	I/O	Description
1 to 7	G7 to G1	O	FLD grid output
8 to 10	P1 to P3	O	FLD segment output
11	VSS-IO	—	Ground
12 to 22	P4 to P14	O	FLD segment output
23	VDD-FIP	—	Power supply (+3.3V)
24 to 41	P15 to P32	O	FLD segment output
42	VSS-IO	—	Ground
43 to 46	P32 to P36	O	FLD segment output
47	NO USED	O	Not used
48	VKK	—	Power supply (-35V)
49	MD0	I	Not used (pull up with resistor)
50	MD1/VDD-VFT	I	Not used (pull up with resistor)
51	MD2	I	Not used (pull down with resistor)
52	VOLUME5,6 LED	O	LED drive signal output
53	VOLUME7,8 LED	O	LED drive signal output
54	VOLUME9,10 LED	O	LED drive signal output
55	VOLUME11,MULTI CH LED	O	LED drive signal output
56	VOLUME3,4 LED	O	LED drive signal output
57	VOLUME1,2 LED	O	LED drive signal output
58	TAPE A/B,TUNER LED	O	LED drive signal output
59	GAME,MD/VIDEO LED	O	LED drive signal output
60	I2C-DATA	O	IIC serial data output
61	I2C-CLOCK	O	IIC clock signal output
62	AVCC	—	Power supply (+3.3V)
63	AVSS	—	Ground
64 to 66	KEY0 to KEY2	I	Key input (A/D port)
67 to 70	BPF3 to BPF0	I	Spectrum analyzer BPF signal input
71	ALL BAND	I	L+R signal input
72	SELECTOR	O	LED group select signal output
73	CD/DVD, REC/PAUSE LED	O	LED drive signal output
74 to 76	NO USE	O	Not used
77	RESET	I	Reset input
78	SOFT TEST	O	Not used (open)
79	VOL 1B	I	Volume encoder signal B input
80	VOL 1A	I	Volume encoder signal A input
81	VSS-CPU	—	Ground
82	XOUT	O	Crystal oscillator output (4MHz)
83	XIN	I	Crystal oscillator input (4MHz)
84	VCC-CPU	—	Power supply (+3.3V)
85, 86	NO USE	—	Not used
87 to 100	G21 to G8	O	FLD grid output

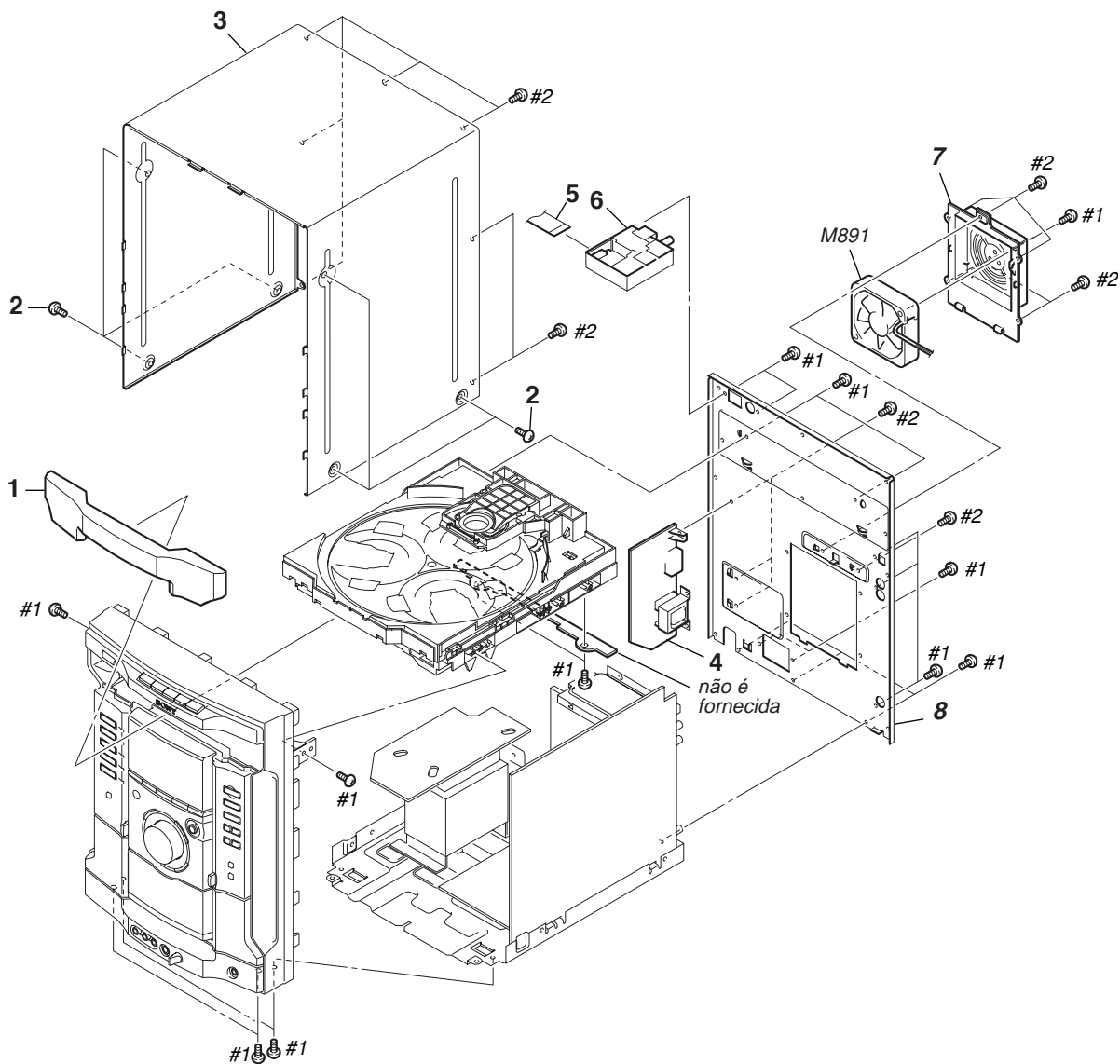
## SEÇÃO 8 VISTAS EXPLODIDAS

**NOTA:**

- -XX e-X indicam peças padrão que podem apresentar algumas diferenças em relação à originais.
- Itens com a marca “\*” não são mantidos em estoque por serem raramente solicitados. Evite atrasos antecipando os pedidos para estes itens.

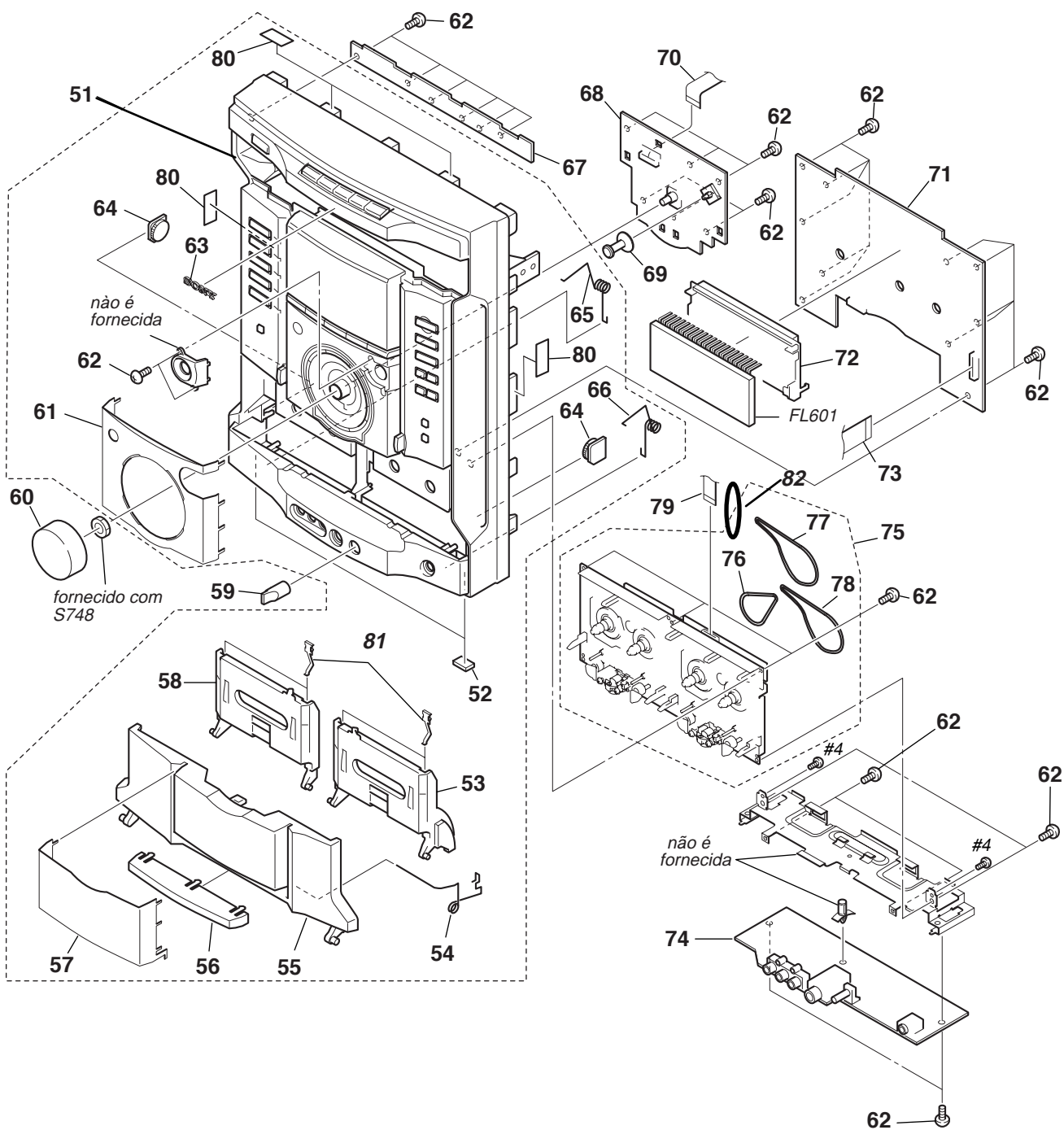
Os componentes identificados com a marca  $\Delta$  são críticos para a segurança. Somente os substitua por peças numericamente especificadas nesse manual.

### 8-1. SEÇÃO TAMPA, PAINEL TRASEIRO



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-244-102-71	PAINEL DE CARREGAMENTO		7	4-244-098-01	CAPA DO VENTILADOR	
2	3-363-099-41	SCREW (CASE 3 TP2)		8	4-248-089-01	PAINEL TRASEIRO	
3	4-231-828-41	TAMPA		M891	1-763-488-61	VENTILADOR, DC	
4	A-4731-346-A	SUB TRANS BOARD, COMPLETE		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
5	1-920-838-32	CABO TIPO FLAT (11 VIAS)		#2	7-685-871-09	SCREW +BVTT 3X6 (S)	
6	1-693-623-11	BLOCO DE SINTONIA (FM/AM)					

8-2. SEÇÃO PAINEL FRONTAL



**LISTA DE PEÇAS NA PÁGINA SEGUINTE**

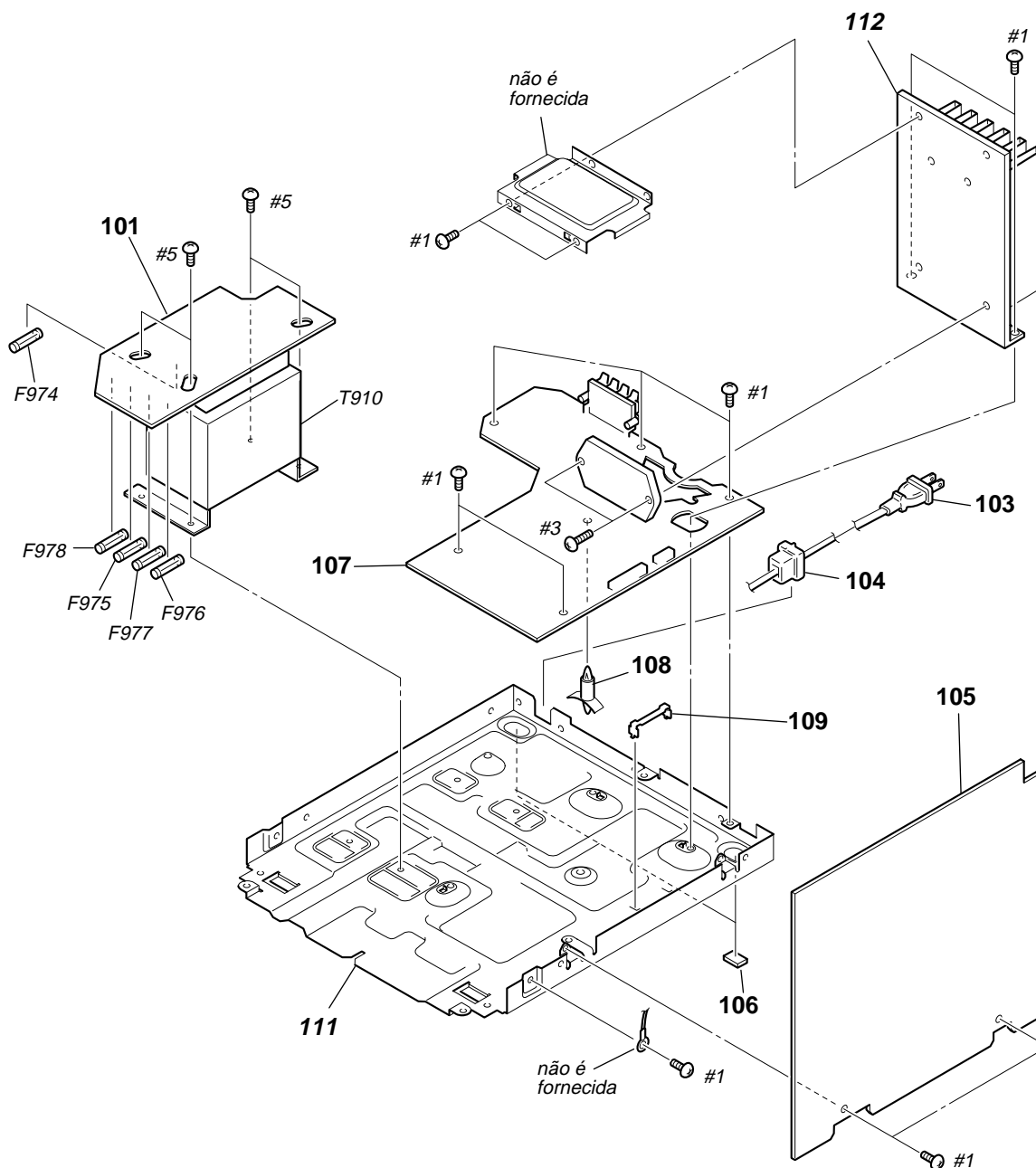
# MHC GN900

## 8-2. SEÇÃO PAINEL FRONTAL - LISTA DE PEÇAS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Descrição</u>
51	4-244-061-01	PAINEL FRONTAL
51-1	4-244-062-01	SUPORTE MIC
51-2	4-244-063-01	BOTÃO (DISC)
51-3	4-244-064-01	BOTÃO (POWER)
51-4	4-244-065-01	BOTÃO (FUNÇÃO)
51-5	4-244-066-01	BOTÃO (PLAY)
51-6	4-244-067-02	BOTÃO (DISPLAY)
51-7	4-244-068-01	VISOR (STR)
51-8	4-244-069-02	ANEL (CUTSOR)
51-9	4-244-070-01	BOTÃO (EQ)
51-10	4-244-071-01	ANEL (VOL)
51-11	4-244-076-01	BOTÃO (EJECT-A)
51-12	4-244-077-01	BOTÃO (EJECT-B)
51-13	4-244-078-02	SUPORTE (FIN)
51-14	4-244-079-01	ALAVANCA (TRAVA-C)
51-15	4-244-080-01	ALAVANCA (TRAVA-A)
51-16	4-244-081-01	ALAVANCA (TRAVA-B)
51-17	4-244-082-01	INDICADOR (POWER)
51-18	4-244-083-01	INDICADOR (REC)
51-19	4-244-084-01	INDICADOR (FUNÇÃO)
51-20	4-244-085-01	INDICADOR (VOL)
51-21	4-244-086-01	INDICADOR (REMOTE)
51-22	4-244-088-01	FILTRO (FL)
51-33	4-244-089-01	CAPA (AL-STR)
51-34	4-244-090-01	CAPA (AL-TC)
51-35	4-244-092-01	MOLA (EJECT)
52	4-225-252-01	CALÇO (PÉ)
53	4-244-075-02	PORTA CASSETE
54	4-244-093-01	MOLA (LID)
55	4-244-072-01	TAMPA CASSETE
56	4-244-073-01	VISOR (TC)
57	4-244-090-01	CAPA (AL-TC)
58	4-244-074-02	PORTA CASSETE (TC-L)
59	4-244-578-21	KNOB (MIC)
60	4-244-097-01	KNOB (VOL)
61	4-244-089-01	CAPA (AL-STR)
62	4-951-620-01	PARAFUSO (2.6X8),+BVTP
63	4-963-404-02	EMBLEMA (5-A), SONY
64	4-224-104-11	AMORTECEDOR
65	4-244-094-02	MOLA (E)
66	4-244-095-02	MOLA (D)
67	1-686-936-11	PLACA CD SWITCH
68	A-4731-329-A	PLCA VOLUME MONTADA
69	4-244-096-02	KNOB (CURSOR)
70	1-773-040-11	CABO TIPO FLAT (17 VIAS)
71	Y-8284-117-A	PLACA DISPLAY MONTADA
72	4-231-581-01	SUPORTE (FL)
73	1-773-110-11	CABO TIPO FLAT (19 VIAS)
74	A-4731-327-A	PLACA GAME IN
75	1-796-487-31	MECANISMO DO DECK (CWM43RR01)
76	4-243-609-01	CORREIA (AF) (DECK A)
77	4-243-610-01	CORREIA (AL) (DECK A)
78	4-243-608-01	CORREIA (BR) (DECK B)
79	1-769-979-11	CABO TIPO FLAT (13 VIAS)
80	3-378-434-01	CALÇO, SARANET
81	4-959-229-11	MOLA DETENTORA (CASSETE)
82	4-235-777-01	CORREIA (FR) (DECK A/B)
FL601	1-518-862-11	INDICADOR TUBO FLUORESCENTE
#4	7-685-781-09	PARAFUSO +PTT 2X4 (S)



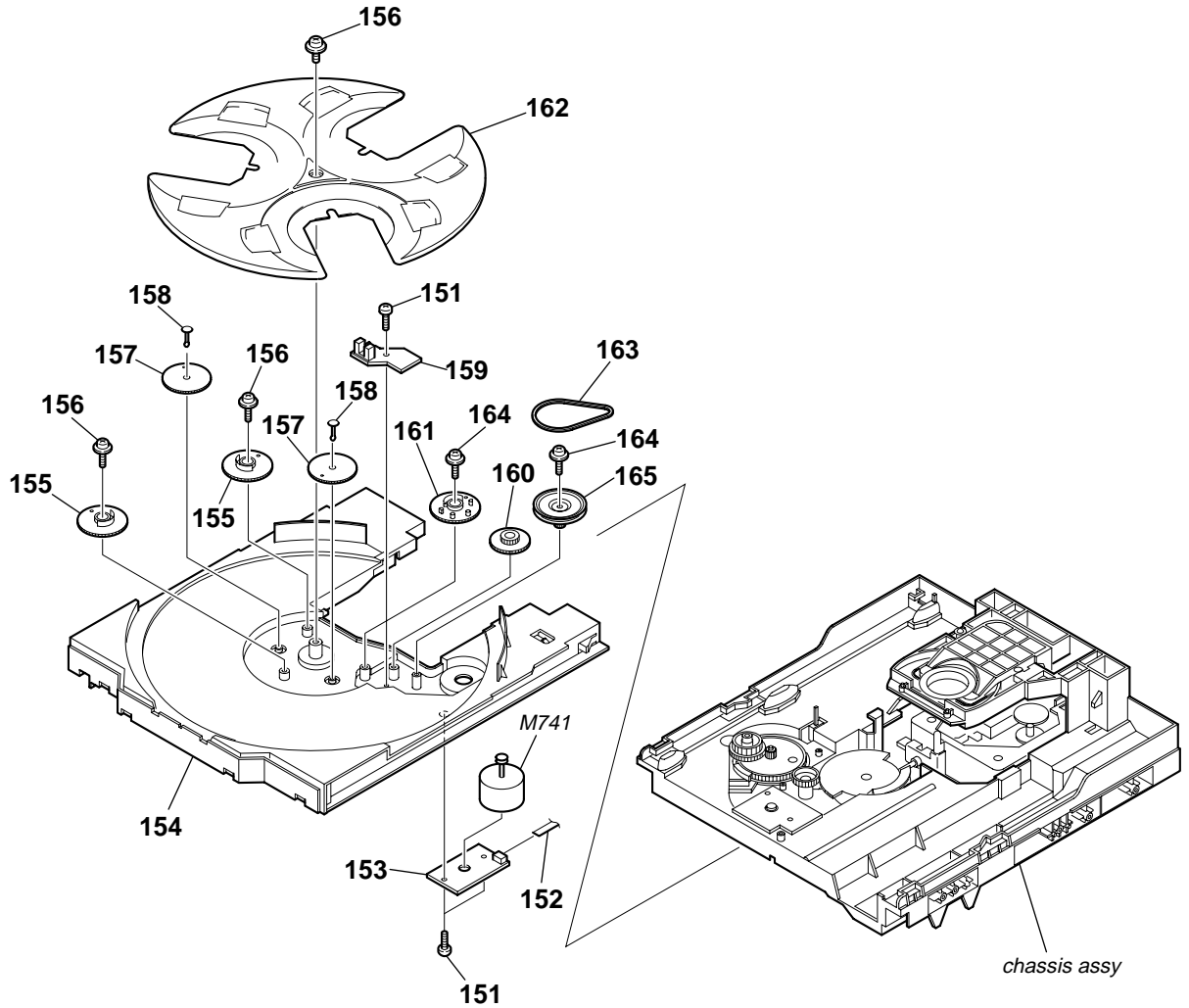
8-3. SEÇÃO CHASSI



Os componentes identificados com a marca Δ são críticos para a segurança. Somente os substitua por peças numericamente especificadas.

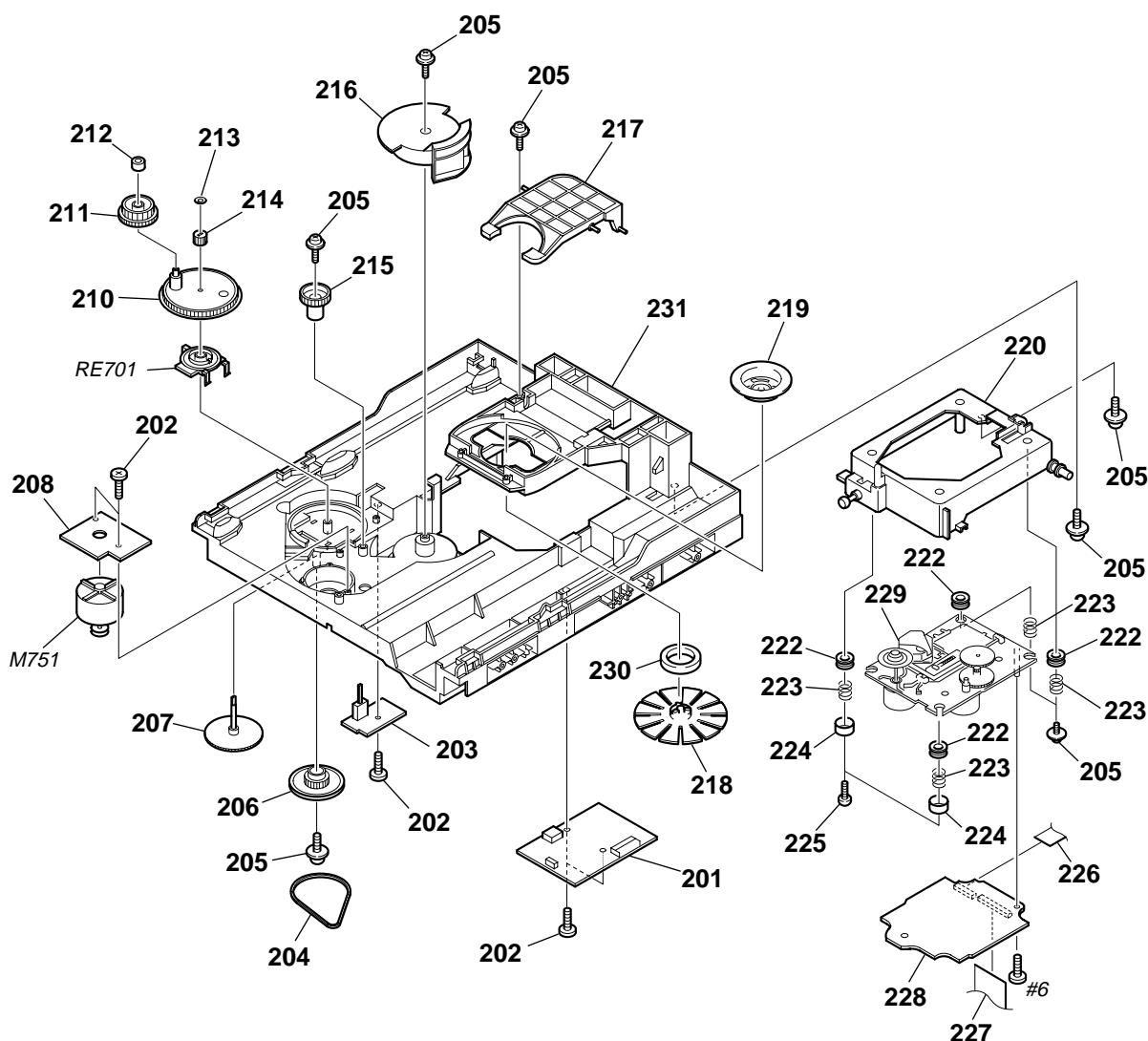
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-686-930-11	PLACA TRANSFORMADOR		Δ F974	1-533-473-11	FUSÍVEL RETARDADO(DIA. 5) (T6.3AL 250V)	
Δ 103	1-928-185-03	CABO DE FORÇA		Δ F975	1-533-473-11	FUSÍVEL RETARDADO (DIA. 5) (T6.3AL 250V)	
104	3-004-269-01	PRENSA CABO		Δ F976	1-533-949-51	FUSÍVEL RETARDADO (DIA. 5) (T8AL 250V)	
105	Y-8284-114-A	PLACA PRINCIPAL MONTADA		Δ F977	1-533-949-51	FUSÍVEL RETARDADO (DIA. 5) (T8AL 250V)	
* 106	4-225-252-01	CALÇO DE PÉ		Δ F978	1-533-471-11	FUSÍVEL RETARDADO (DIA. 5) (T4AL 250V)	
107	Y-8284-119-A	PLACA POWER AMP MONTADA		Δ T910	1-439-890-11	TRANSFORMADOR DE FORÇA	
108	4-943-687-01	SUPORTE DA PLACA		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
109	4-988-533-01	SUPORTE DA PLACA		#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
110	4-244-099-01	CHASSI		#5	7-685-881-09	SCREW +BVTT 4X8 (S)	
111	4-244-104-21	DISSIPADOR					

8-4. SEÇÃO-1 -MECANISMO DO CD  
(CDM74-K6BD47S)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-218-253-21	SCREW (M2.6), +BTTP		160	4-243-820-01	GEAR (TABLE)	
152	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)		161	4-243-819-01	GEAR (GENEVA)	
153	1-687-134-11	MOTOR (TB) BOARD		162	4-243-816-01	TRAY	
154	4-243-815-01	TABLE (LOADING)		163	4-243-823-01	BELT (TABLE)	
155	4-245-571-01	GEAR (STOPPER)		164	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
156	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		165	4-243-821-01	PULLEY (TABLE)	
157	4-245-570-01	GEAR (JOINT)		M741	A-4723-963-A	MOTOR ASSY, TABLE	
158	4-245-572-01	BUSHING (GEAR)					
159	1-687-132-11	SENSOR BOARD					

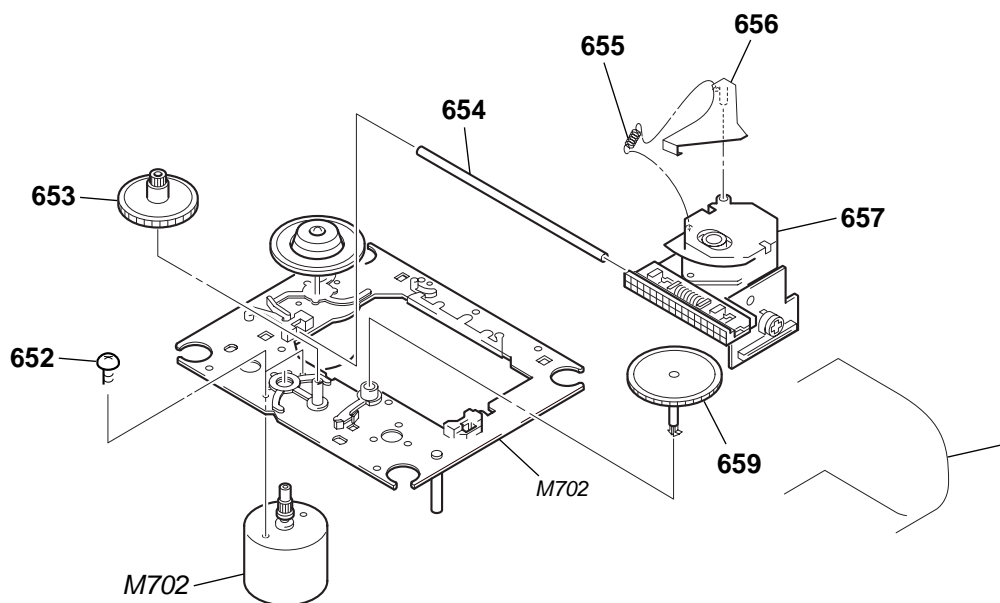
8-5. SEÇÃO-2 -MECANISMO DO CD  
(CDM74-K6BD47S)



Os componentes identificados com a marca  $\Delta$  são críticos para a segurança. Somente os substitua por peças numericamente especificadas.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	1-687-135-11	DRIVER BOARD		218	X-4955-774-1	PULLEY (SM) ASSY, CHUCKING	
202	4-218-253-31	SCREW (M2.6), +BTTP		219	4-221-688-01	PULLEY (B), CHUCKING	
203	1-687-669-11	SW BOARD		220	X-4955-536-1	HOLDER (213) ASSY	
204	4-244-034-01	BELT (LOADING)		222	4-277-549-11	INSULATOR	
205	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		223	4-277-045-11	SPRING (INSULATOR), COIL	
206	4-225-844-01	GEAR (LOADING A)		224	4-231-151-01	STOPPER (SU)	
207	4-224-613-01	GEAR (SHAFT)		225	4-218-253-31	SCREW (M2.6), +BTTP	
208	1-687-133-11	MOTOR (LD) BOARD		226	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)	
210	4-244-108-01	GEAR, SWING		227	1-775-280-11	WIRE (FLAT TYPE) (31 CORE)	
211	4-224-609-01	GEAR (LOADING C)		228	A-4731-446-A	CD BOARD, COMPLETE	
212	4-224-608-01	COLLAR, SWING		$\Delta$ 229	A-4735-357-A	BASE ASSY, OP (including KSS-213DCP)	
213	3-016-533-01	WASHER (FR), STOPPER		230	1-471-035-11	MAGNET ASSY	
214	4-224-611-01	GEAR (LOADING B)		231	4-243-817-11	CHASSIS	
215	4-224-606-01	GEAR (RV)		M751	A-4737-553-A	MOTOR ASSY, LOADING	
216	4-243-818-01	GEAR (U/D)		RE701	1-477-680-11	ENCODER, ROTARY	
217	4-243-822-01	LEVER (LIFTER)		#6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	

8-6. SEÇÃO BASE DO UNIDADE ÓTICA  
KSM-213DCP



Os componentes identificados com a marca  $\triangle$  são críticos para a segurança. Somente os substitua por peças numericamente especificadas nesse manual.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
				$\triangle$ 657	8-820-020-11	OPTICAL PICK-UP KSS-213D/Z-RP	
652	3-713-786-51	SCREW +P 2X3		659	2-626-907-11	GEAR (A)	
653	2-627-003-01	GEAR (B) (RP)		M701	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	
654	2-626-908-01	SHAFT, SLED		M702	X-2161-802-1	CHASSIS ASSY (DCP), T. T (SPINDLE)	
655	2-646-702-01	SPRING, EXTENSION					
656	2-646-697-02	SHUTTER(F),LENS					

## SEÇÃO 9

### LISTA DE PEÇAS ELÉTRICAS

CD

**NOTE:**

- Devido a padronização algumas peças des-  
pecificadas nos diagramas ou mesmo daque-  
las usadas no aparelho.
- -XX e -X indicam peça padrão, que podem  
apresentar diferenças daquelas originalmen-  
te usadas no aparelho.
- RESISTORES  
Todos os resistores estão em ohms.  
METAL: resistor de metal-film  
METAL OXIDE: resistor de Metal Oxide-film  
F: antichama
- Itens com a marca “\*” não são mantidos em  
estoque por serem raramente solicitados.  
Evite atrasos antecipando os pedidos para  
estes itens.

- SEMICONDUCTORES  
Em cada caso, u:  $\mu$ , por exemplo:  
uA. . . :  $\mu$ A. . .      uPA. . . :  $\mu$ PA. . .  
uPB. . . :  $\mu$ PB. . .    uPC. . . :  $\mu$ PC. . .  
uPD. . . :  $\mu$ PD. . .
- CAPACITORES  
uF:  $\mu$ F
- COILS  
uH:  $\mu$ H

Os componentes identificados  
com a marca  $\Delta$  são críticos para  
a segurança. Somente os subs-  
titua por peças numericamente  
especificadas nesse manual.

Quando solicitar peças pelo código, por favor  
inclua também o nome da placa.

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
	A-4731-446-A	PLACA CD MONTADA *****									
		< CAPACITOR >									
C101	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C249	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C250	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C103	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C251	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C104	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V						
C107	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C252	1-164-360-11	CERAMIC CHIP	0.1uF		16V
						C253	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C108	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C254	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C109	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C255	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C256	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C111	1-126-209-11	ELECT CHIP	100uF	20%	4V						
C113	1-126-209-11	ELECT CHIP	100uF	20%	4V	C257	1-165-112-11	CERAMIC CHIP	0.33uF		16V
						C258	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C114	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C259	1-164-361-11	CERAMIC CHIP	0.047uF		16V
C115	1-126-246-11	ELECT CHIP	220uF	20%	4V	C260	1-126-246-11	ELECT CHIP	220uF	20%	4V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C261	1-126-607-11	ELECT CHIP	47uF	20%	4V
C117	1-164-360-11	CERAMIC CHIP	0.1uF		16V						
C118	1-115-156-11	CERAMIC CHIP	1uF		10V	C262	1-126-607-11	ELECT CHIP	47uF	20%	4V
						C263	1-125-822-11	TANTAL. CHIP	10uF	20%	10V
C119	1-115-156-11	CERAMIC CHIP	1uF		10V	C264	1-126-607-11	ELECT CHIP	47uF	20%	4V
C131	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V	C265	1-126-607-11	ELECT CHIP	47uF	20%	4V
C132	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C266	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C133	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V						
C150	1-128-995-21	ELECT CHIP	100uF	20%	10V	C267	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
						C268	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C151	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C269	1-125-822-11	TANTAL. CHIP	10uF	20%	10V
C152	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C270	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C158	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C271	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C202	1-164-360-11	CERAMIC CHIP	0.1uF		16V						
C203	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C273	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
						C274	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C205	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C275	1-126-246-11	ELECT CHIP	220uF	20%	4V
C206	1-126-607-11	ELECT CHIP	47uF	20%	4V	C276	1-126-209-11	ELECT CHIP	100uF	20%	4V
C208	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C279	1-100-588-21	ELECT CHIP	1000uF	20%	6.3V
C209	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C211	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C292	1-115-156-11	CERAMIC CHIP	1uF		10V
								< CONNECTOR >			
C212	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	CN101	1-784-387-11	CONNECTOR, FFC/FPC 31P			
C213	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P			
C215	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V			< FERRITE BEAD >			
C216	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	FB101	1-500-283-11	FERRITE	0uH		
C222	1-164-360-11	CERAMIC CHIP	0.1uF		16V	FB102	1-500-283-11	FERRITE	0uH		
						FB103	1-500-283-11	FERRITE	0uH		
C223	1-126-607-11	ELECT CHIP	47uF	20%	4V	FB104	1-500-283-11	FERRITE	0uH		
C224	1-164-360-11	CERAMIC CHIP	0.1uF		16V	FB106	1-500-283-11	FERRITE	0uH		
C226	1-126-607-11	ELECT CHIP	47uF	20%	4V						
C227	1-164-360-11	CERAMIC CHIP	0.1uF		16V	FB107	1-500-283-11	FERRITE	0uH		
C229	1-164-360-11	CERAMIC CHIP	0.1uF		16V	FB291	1-500-283-11	FERRITE	0uH		
								< IC >			
C230	1-164-360-11	CERAMIC CHIP	0.1uF		16V	IC101	8-752-408-73	IC CXD3068Q			
C231	1-126-209-11	ELECT CHIP	100uF	20%	4V						

# MHC-GN900

<b>CD</b>	<b>CD SWITCH</b>	<b>DISPLAY</b>
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Ref. No.	Part No.	Description	Remarks
IC103	8-752-106-21	IC CXA2647N-T4	
IC104	6-704-150-01	IC CXD9717R-008	
IC121	6-700-394-01	IC BA25BC0FP-E2	
IC150	8-759-677-90	IC BA5947FP-E2	
		< COIL >	
L101	1-412-063-21	INDUCTOR 68uH	
		< TRANSISTOR >	
Q101	8-729-046-90	TRANSISTOR 2SB970-(TX).S0	
		< RESISTOR >	
R101	1-216-864-11	METAL CHIP 0 5%	1/10W
R102	1-216-833-11	METAL CHIP 10K 5%	1/10W
R103	1-216-845-11	METAL CHIP 100K 5%	1/10W
R104	1-216-833-11	METAL CHIP 10K 5%	1/10W
R105	1-216-821-11	METAL CHIP 1K 5%	1/10W
R111	1-216-847-11	METAL CHIP 150K 5%	1/10W
R113	1-216-828-11	METAL CHIP 3.9K 5%	1/10W
R114	1-216-852-11	METAL CHIP 390K 5%	1/10W
R117	1-216-846-11	METAL CHIP 120K 5%	1/10W
R118	1-216-833-11	METAL CHIP 10K 5%	1/10W
R120	1-216-846-11	METAL CHIP 120K 5%	1/10W
R122	1-216-845-11	METAL CHIP 100K 5%	1/10W
R123	1-216-791-11	METAL CHIP 3.3 5%	1/10W
R125	1-216-836-11	METAL CHIP 18K 5%	1/10W
R126	1-216-836-11	METAL CHIP 18K 5%	1/10W
R131	1-216-843-11	METAL CHIP 68K 5%	1/10W
R132	1-216-851-11	METAL CHIP 330K 5%	1/10W
R133	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R151	1-216-833-11	METAL CHIP 10K 5%	1/10W
R152	1-216-849-11	METAL CHIP 220K 5%	1/10W
R153	1-216-864-11	METAL CHIP 0 5%	1/10W
R155	1-216-864-11	METAL CHIP 0 5%	1/10W
R156	1-216-864-11	METAL CHIP 0 5%	1/10W
R201	1-216-839-11	METAL CHIP 33K 5%	1/10W
R202	1-216-833-11	METAL CHIP 10K 5%	1/10W
R203	1-216-845-11	METAL CHIP 100K 5%	1/10W
R204	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R205	1-216-821-11	METAL CHIP 1K 5%	1/10W
R206	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R207	1-216-857-11	METAL CHIP 1M 5%	1/10W
R212	1-216-817-11	METAL CHIP 470 5%	1/10W
R213	1-216-817-11	METAL CHIP 470 5%	1/10W
R214	1-216-864-11	METAL CHIP 0 5%	1/10W
R215	1-216-864-11	METAL CHIP 0 5%	1/10W
R216	1-216-857-11	METAL CHIP 1M 5%	1/10W
R218	1-216-821-11	METAL CHIP 1K 5%	1/10W
R219	1-216-821-11	METAL CHIP 1K 5%	1/10W
R220	1-216-821-11	METAL CHIP 1K 5%	1/10W
R230	1-216-813-11	METAL CHIP 220 5%	1/10W
R231	1-216-809-11	METAL CHIP 100 5%	1/10W
R232	1-216-809-11	METAL CHIP 100 5%	1/10W
R233	1-216-809-11	METAL CHIP 100 5%	1/10W
R249	1-216-817-11	METAL CHIP 470 5%	1/10W
R250	1-216-813-11	METAL CHIP 220 5%	1/10W
R251	1-216-813-11	METAL CHIP 220 5%	1/10W
R252	1-216-857-11	METAL CHIP 1M 5%	1/10W
R253	1-216-819-11	METAL CHIP 680 5%	1/10W

Ref. No.	Part No.	Description	Remarks
R254	1-216-845-11	METAL CHIP 100K 5%	1/10W
R255	1-216-809-11	METAL CHIP 100 5%	1/10W
R257	1-216-809-11	METAL CHIP 100 5%	1/10W
R259	1-216-809-11	METAL CHIP 100 5%	1/10W
R260	1-216-821-11	METAL CHIP 1K 5%	1/10W
R265	1-216-813-11	METAL CHIP 220 5%	1/10W
R266	1-216-813-11	METAL CHIP 220 5%	1/10W
R271	1-216-833-11	METAL CHIP 10K 5%	1/10W
R272	1-216-821-11	METAL CHIP 1K 5%	1/10W
R275	1-216-833-11	METAL CHIP 10K 5%	1/10W
R276	1-216-809-11	METAL CHIP 100 5%	1/10W
R277	1-216-864-11	METAL CHIP 0 5%	1/10W
R279	1-216-809-11	METAL CHIP 100 5%	1/10W
R280	1-216-296-11	SHORT CHIP 0	
		< SWITCH >	
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	
		< VIBRATOR >	
X201	1-767-408-21	VIBRATOR, CRYSTAL (16.9MHz)	
		*****	
	1-686-936-11	PLCA CD SWITCH	
		*****	
		< DIODE >	
D748	8-719-058-04	DIODE SEL5223S-TP15 (I/O)	
		< TRANSISTOR >	
Q748	8-729-029-67	TRANSISTOR DTC114ESA-TP	
		< RESISTOR >	
R748	1-249-411-11	CARBON 330 5%	1/4W
R749	1-249-410-11	CARBON 270 5%	1/4W F
R788	1-249-427-11	CARBON 6.8K 5%	1/4W F
R789	1-249-429-11	CARBON 10K 5%	1/4W
R790	1-249-431-11	CARBON 15K 5%	1/4W
R791	1-249-433-11	CARBON 22K 5%	1/4W
R792	1-249-435-11	CARBON 33K 5%	1/4W
		< SWITCH >	
S749	1-771-874-11	SWITCH, KEYBOARD (I/O)	
S788	1-771-874-11	SWITCH, KEYBOARD (▲, OPEN/CLOSE)	
S789	1-771-874-11	SWITCH, KEYBOARD (EX-CHANGE/DISK SKIP)	
S790	1-771-874-11	SWITCH, KEYBOARD (DISC 3)	
S791	1-771-874-11	SWITCH, KEYBOARD (DISC 2)	
S792	1-771-874-11	SWITCH, KEYBOARD (DISC 1)	
		*****	
	Y-8284-117-A	PLACA DISPLAY MONTADA	
		*****	
	4-231-581-01	HOLDER (FL)	
		< CAPACITOR >	
C100	1-126-964-11	ELECT 10uF 20%	50V
C101	1-137-194-81	FILM 0.47uF 5%	50V
C102	1-137-194-81	FILM 0.47uF 5%	50V
C104	1-126-964-11	ELECT 10uF 20%	50V

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C105	1-126-957-11	ELECT	0.22uF 20% 50V	D605	8-719-057-97	DIODE SEL5923A-TP15 (TUNER/BAND)	
C106	1-136-165-00	FILM	0.1uF 5% 50V	D606	8-719-057-97	DIODE SEL5923A-TP15 (TAPE A/B)	
C107	1-136-165-00	FILM	0.1uF 5% 50V	D610	8-719-923-34	DIODE MTZJ-T-77-5.1B	
C109	1-124-261-00	ELECT	10uF 20% 50V			< FLUORESCENT INDICATOR TUBE >	
C110	1-126-957-11	ELECT	0.22uF 20% 50V	FL601	1-518-862-11	INDICATOR TUBE, FLUORESCENT	
C111	1-136-157-00	FILM	0.022uF 5% 50V			< IC >	
C112	1-136-157-00	FILM	0.022uF 5% 50V	IC101	8-759-167-88	IC NJM4565D	
C114	1-126-964-11	ELECT	10uF 20% 50V	IC102	8-759-167-88	IC NJM4565D	
C115	1-126-957-11	ELECT	0.22uF 20% 50V	IC601	6-802-903-01	IC MB90M407PF-G-130-BND	
C116	1-137-367-11	MYLAR	0.0033uF 5% 50V			< TRANSISTOR >	
C117	1-137-367-11	MYLAR	0.0033uF 5% 50V	Q100	8-729-141-31	TRANSISTOR 2SC3623ATP-LK	
C118	1-126-964-11	ELECT	10uF 20% 50V	Q601	8-729-029-67	TRANSISTOR DTC-114ESA-TP	
C119	1-124-261-00	ELECT	10uF 20% 50V	Q602	8-729-029-67	TRANSISTOR DTC-114ESA-TP	
C120	1-126-957-11	ELECT	0.22uF 20% 50V	Q603	8-729-029-67	TRANSISTOR DTC-114ESA-TP	
C121	1-126-963-11	ELECT	4.7uF 20% 50V	Q604	8-729-029-67	TRANSISTOR DTC-114ESA-TP	
C122	1-124-584-00	ELECT	100uF 20% 10V	Q605	8-729-141-87	TRANSISTOR 2SB1116-TP-LK	
C123	1-104-665-11	ELECT	100uF 20% 10V	Q606	8-729-141-87	TRANSISTOR 2SB1116-TP-LK	
C124	1-126-964-11	ELECT	10uF 20% 50V	Q707	8-729-029-67	TRANSISTOR DTC-114ESA-TP	
C125	1-164-159-11	CERAMIC	0.1uF 50V	Q807	8-729-029-95	TRANSISTOR DTC-143TSA-TP	
C152	1-162-286-31	CERAMIC	220PF 10% 50V	Q808	8-729-029-95	TRANSISTOR DTC-143TSA-TP	
C153	1-162-286-31	CERAMIC	220PF 10% 50V			< RESISTOR >	
C154	1-162-286-31	CERAMIC	220PF 10% 50V	R102	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C155	1-162-286-31	CERAMIC	220PF 10% 50V	R103	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C156	1-162-286-31	CERAMIC	220PF 10% 50V	R104	1-249-437-11	CARBON 47K 5% 1/4W F	
C157	1-162-286-31	CERAMIC	220PF 10% 50V	R105	1-249-415-11	CARBON 680 5% 1/4W F	
C618	1-162-306-11	CERAMIC	0.01uF 30% 16V	R106	1-249-441-11	CARBON 100K 5% 1/4W F	
C619	1-124-589-11	ELECT	47uF 20% 16V	R107	1-249-441-11	CARBON 100K 5% 1/4W F	
C620	1-162-306-11	CERAMIC	0.01uF 30% 16V	R108	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C622	1-126-163-11	ELECT	4.7uF 20% 50V	R109	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C623	1-162-294-31	CERAMIC	0.001uF 10% 50V	R110	1-249-437-11	CARBON 47K 5% 1/4W F	
C624	1-162-306-11	CERAMIC	0.01uF 30% 16V	R111	1-249-415-11	CARBON 680 5% 1/4W F	
C625	1-162-306-11	CERAMIC	0.01uF 30% 16V	R112	1-249-441-11	CARBON 100K 5% 1/4W F	
C626	1-162-306-11	CERAMIC	0.01uF 30% 16V	R113	1-249-441-11	CARBON 100K 5% 1/4W F	
C627	1-162-306-11	CERAMIC	0.01uF 30% 16V	R114	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C628	1-162-306-11	CERAMIC	0.01uF 30% 16V	R115	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C651	1-164-159-11	CERAMIC	0.1uF 50V	R116	1-249-437-11	CARBON 47K 5% 1/4W F	
C652	1-124-261-00	ELECT	10uF 20% 50V	R117	1-249-415-11	CARBON 680 5% 1/4W F	
C653	1-124-261-00	ELECT	10uF 20% 50V	R118	1-249-441-11	CARBON 100K 5% 1/4W F	
C710	1-162-306-11	CERAMIC	0.01uF 30% 16V	R119	1-249-441-11	CARBON 100K 5% 1/4W F	
C711	1-162-306-11	CERAMIC	0.01uF 30% 16V	R120	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C712	1-162-306-11	CERAMIC	0.01uF 30% 16V	R121	1-249-419-11	CARBON 1.5K 5% 1/4W F	
		< CONNECTOR >		R122	1-249-437-11	CARBON 47K 5% 1/4W F	
* CN601	1-569-935-11	SOCKET, CONNECTOR 19P		R123	1-249-415-11	CARBON 680 5% 1/4W F	
CN604	1-569-910-11	SOCKET, CONNECTOR 17P		R124	1-249-441-11	CARBON 100K 5% 1/4W F	
		< DIODE >		R125	1-249-441-11	CARBON 100K 5% 1/4W F	
D100	8-719-983-10	DIODE MTZJ-T-77-3.3B		R127	1-249-409-11	CARBON 220 5% 1/4W F	
D101	8-719-991-33	DIODE 1SS133T-72		R128	1-247-895-00	CARBON 470K 5% 1/4W F	
D102	8-719-991-33	DIODE 1SS133T-72		R129	1-249-425-11	CARBON 4.7K 5% 1/4W F	
D103	8-719-991-33	DIODE 1SS133T-72		R130	1-249-425-11	CARBON 4.7K 5% 1/4W F	
D104	8-719-991-33	DIODE 1SS133T-72		R131	1-249-441-11	CARBON 100K 5% 1/4W F	
D105	8-719-991-33	DIODE 1SS133T-72		R132	1-249-441-11	CARBON 100K 5% 1/4W F	
D106	6-500-522-11	DIODE 10EDB40-TA2B5		R133	1-249-441-11	CARBON 100K 5% 1/4W F	
D107	6-500-522-11	DIODE 10EDB40-TA2B5		R134	1-249-441-11	CARBON 100K 5% 1/4W F	
D601	8-719-063-93	DIODE SLR325VC-N-T32 (REC PAUSE/START)		R136	1-249-439-11	CARBON 68K 5% 1/4W F	
D602	8-719-057-97	DIODE SEL5923A-TP15 (GAME)		R137	1-249-433-11	CARBON 22K 5% 1/4W F	
D603	8-719-057-97	DIODE SEL5923A-TP15 (MD(VIDEO))		R138	1-249-417-11	CARBON 1K 5% 1/4W F	
D604	8-719-057-97	DIODE SEL5923A-TP15 (CD)					

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## DISPLAY

## DRIVER

Ref. No.	Part No.	Description	Quantity	Lot	Remarks
R139	1-249-411-11	CARBON	330	5%	1/4W
R140	1-247-807-31	CARBON	100	5%	1/4W
R626	1-249-411-11	CARBON	330	5%	1/4W
R627	1-249-411-11	CARBON	330	5%	1/4W
R628	1-249-411-11	CARBON	330	5%	1/4W
R629	1-249-411-11	CARBON	330	5%	1/4W
R630	1-249-411-11	CARBON	330	5%	1/4W
R631	1-249-415-11	CARBON	680	5%	1/4W F
R632	1-249-415-11	CARBON	680	5%	1/4W F
R633	1-249-415-11	CARBON	680	5%	1/4W F
R634	1-249-429-11	CARBON	10K	5%	1/4W
R635	1-249-429-11	CARBON	10K	5%	1/4W
R636	1-249-429-11	CARBON	10K	5%	1/4W
R637	1-249-429-11	CARBON	10K	5%	1/4W
R645	1-249-429-11	CARBON	10K	5%	1/4W
R646	1-247-807-31	CARBON	100	5%	1/4W
R647	1-247-807-31	CARBON	100	5%	1/4W
R652	1-249-429-11	CARBON	10K	5%	1/4W
R653	1-249-429-11	CARBON	10K	5%	1/4W
R654	1-247-807-31	CARBON	100	5%	1/4W
R655	1-247-807-31	CARBON	100	5%	1/4W
R656	1-247-807-31	CARBON	100	5%	1/4W
R657	1-249-431-11	CARBON	15K	5%	1/4W
R658	1-249-431-11	CARBON	15K	5%	1/4W
R659	1-249-431-11	CARBON	15K	5%	1/4W
R660	1-247-903-00	CARBON	1M	5%	1/4W
R661	1-249-429-11	CARBON	10K	5%	1/4W
R662	1-249-429-11	CARBON	10K	5%	1/4W
R663	1-249-429-11	CARBON	10K	5%	1/4W
R751	1-249-413-11	CARBON	470	5%	1/4W F
R752	1-249-415-11	CARBON	680	5%	1/4W F
R753	1-249-417-11	CARBON	1K	5%	1/4W F
R754	1-249-419-11	CARBON	1.5K	5%	1/4W F
R755	1-249-419-11	CARBON	1.5K	5%	1/4W F
R756	1-249-421-11	CARBON	2.2K	5%	1/4W F
R757	1-247-843-11	CARBON	3.3K	5%	1/4W
R758	1-249-425-11	CARBON	4.7K	5%	1/4W F
R779	1-249-413-11	CARBON	470	5%	1/4W F
R781	1-249-415-11	CARBON	680	5%	1/4W F
R782	1-249-417-11	CARBON	1K	5%	1/4W F
R783	1-249-419-11	CARBON	1.5K	5%	1/4W F
R784	1-249-419-11	CARBON	1.5K	5%	1/4W F
R785	1-249-421-11	CARBON	2.2K	5%	1/4W F
R786	1-247-843-11	CARBON	3.3K	5%	1/4W
R787	1-249-425-11	CARBON	4.7K	5%	1/4W F
R807	1-249-441-11	CARBON	100K	5%	1/4W
R808	1-249-441-11	CARBON	100K	5%	1/4W
R817	1-249-406-11	CARBON	120	5%	1/4W F
R818	1-249-408-11	CARBON	180	5%	1/4W F
R819	1-249-408-11	CARBON	180	5%	1/4W F
R820	1-249-408-11	CARBON	180	5%	1/4W F
R821	1-249-406-11	CARBON	120	5%	1/4W F
R822	1-249-417-11	CARBON	1K	5%	1/4W F
R823	1-249-417-11	CARBON	1K	5%	1/4W F
< SWITCH >					
S751	1-771-847-11	SWITCH, KEYBOARD (<D>)			
S752	1-771-847-11	SWITCH, KEYBOARD (■)			
S753	1-771-847-11	SWITCH, KEYBOARD (■)			
S754	1-771-847-11	SWITCH, KEYBOARD (-, <<<)			
S755	1-771-847-11	SWITCH, KEYBOARD (>>>,+)			

Ref. No.	Part No.	Description	Quantity	Lot	Remarks
S756	1-771-847-11	SWITCH, KEYBOARD (>>>,ALBUM +)			
S757	1-771-847-11	SWITCH, KEYBOARD (<<<,ALBUM -)			
S758	1-771-847-11	SWITCH, KEYBOARD (REC PAUSE/START)			
S779	1-771-847-11	SWITCH, KEYBOARD (CD SYNC)			
S782	1-771-847-11	SWITCH, KEYBOARD (GAME MIXING)			
S783	1-771-847-11	SWITCH, KEYBOARD (GAME)			
S784	1-771-847-11	SWITCH, KEYBOARD (MD(VIDEO))			
S785	1-771-847-11	SWITCH, KEYBOARD (TAPE A/B)			
S786	1-771-847-11	SWITCH, KEYBOARD (TUNER/BAND)			
S787	1-771-847-11	SWITCH, KEYBOARD (CD)			
< VIBRATOR >					
X601	1-577-082-31	VIBRATOR, CERAMIC (4MHZ)			
*****					
1-687-135-11	DRIVER BOARD				
*****					
< CAPACITOR >					
C715	1-126-933-11	ELECT	100uF	20%	16V
C731	1-126-964-51	ELECT	10uF	20%	50V
C735	1-164-159-11	CERAMIC	0.1uF		50V
C736	1-164-159-11	CERAMIC	0.1uF		50V
C737	1-164-159-11	CERAMIC	0.1uF		50V
C741	1-162-306-11	CERAMIC	0.01uF	30%	16V
C751	1-162-306-11	CERAMIC	0.01uF	30%	16V
C752	1-164-159-11	CERAMIC	0.1uF		50V
< CONNECTOR >					
CN701	1-785-338-11	PIN, CONNECTOR(LIGHT ANGLE)12P			
CN702	1-784-766-11	CONNECTOR, FFC 5P			
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE)2P			
< DIODE >					
D701	8-719-923-33	DIODE MTZJ-T-77-5.1A			
D711	8-719-983-13	DIODE MTZJ-T-77-3.6B			
< IC >					
IC701	8-759-598-69	IC BA6956AN			
IC712	8-759-598-69	IC BA6956AN			
< TRANSISTOR >					
Q731	8-729-029-67	TRANSISTOR DTC114ESA-TP			
< RESISTOR >					
R701	1-249-413-11	CARBON	470	5%	1/4W F
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-417-11	CARBON	1K	5%	1/4W F
R712	1-249-425-11	CARBON	4.7K	5%	1/4W F
R713	1-249-433-11	CARBON	22K	5%	1/4W
R721	1-249-425-11	CARBON	4.7K	5%	1/4W F
R722	1-249-425-11	CARBON	4.7K	5%	1/4W F
R723	1-249-425-11	CARBON	4.7K	5%	1/4W F
R731	1-247-807-31	CARBON	100	5%	1/4W
R732	1-247-855-91	CARBON	10K	5%	1/4W F
R733	1-249-417-11	CARBON	1K	5%	1/4W F
R734	1-247-857-91	CARBON	12K	5%	1/4W
R735	1-247-807-31	CARBON	100	5%	1/4W
R751	1-249-425-11	CARBON	4.7K	5%	1/4W F
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## MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C207	1-126-916-11	ELECT	1000uF 20% 6.3V	C416	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C209	1-126-928-11	ELECT	3300uF 20% 10V	C427	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C210	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C432	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C211	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	C433	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C219	1-126-964-11	ELECT	10uF 20% 50V	C434	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C269	1-126-964-11	ELECT	10uF 20% 50V	C498	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C286	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V	C502	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
C301	1-130-483-00	MYLAR	0.01uF 5% 50V	C503	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
C303	1-136-165-00	FILM	0.1uF 5% 50V	C510	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C304	1-126-964-11	ELECT	10uF 20% 50V	C511	1-162-917-11	CERAMIC CHIP 15PF	5% 50V
C305	1-126-960-11	ELECT	1uF 20% 50V	C512	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C306	1-126-961-11	ELECT	2.2uF 20% 50V	C516	1-126-916-11	ELECT	1000uF 20% 6.3V
C307	1-126-964-11	ELECT	10uF 20% 50V	C562	1-104-665-11	ELECT	100uF 20% 10V
C308	1-126-935-11	ELECT	470uF 20% 16V	C564	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C309	1-126-947-11	ELECT	47uF 20% 16V	C596	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C310	1-126-964-11	ELECT	10uF 20% 50V	C598	1-126-964-11	ELECT	10uF 20% 50V
C311	1-126-964-11	ELECT	10uF 20% 50V	C601	1-126-964-11	ELECT	10uF 20% 50V
C312	1-126-964-11	ELECT	10uF 20% 50V	C602	1-136-165-00	FILM	0.1uF 5% 50V
C314	1-126-966-11	CERAMIC CHIP	0.0022uF 10% 50V	C603	1-136-165-00	FILM	0.1uF 5% 50V
C315	1-126-960-11	ELECT	1uF 20% 50V	C620	1-126-963-11	ELECT	4.7uF 20% 50V
C316	1-126-960-11	ELECT	1uF 20% 50V	C621	1-107-721-91	ELECT	4.7uF 20% 100V
C321	1-164-392-11	CERAMIC CHIP	390PF 10% 50V	C650	1-109-889-11	ELECT	1uF 20% 50V
C326	1-164-392-11	CERAMIC CHIP	390PF 10% 50V	C651	1-107-717-11	ELECT	47uF 20% 50V
C331	1-130-483-00	MYLAR	0.01uF 5% 50V	C656	1-125-891-11	CERAMIC CHIP 0.47uF	10% 25V
C332	1-137-427-11	MYLAR	120PF 5% 50V	C670	1-126-963-11	ELECT	4.7uF 20% 50V
C333	1-162-961-11	CERAMIC CHIP	330PF 10% 50V	C671	1-107-721-91	ELECT	4.7uF 20% 100V
C334	1-162-946-11	CERAMIC CHIP	27PF 5% 50V	C851	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C335	1-137-150-11	MYLAR	0.01uF 5% 100V	C901	1-126-944-11	ELECT	3300uF 20% 25V
C336	1-126-961-11	ELECT	2.2uF 20% 50V	C902	1-131-774-91	ELECT	1000uF 20% 25V
C337	1-130-485-00	MYLAR	0.015uF 5% 50V	C903	1-126-768-11	ELECT	2200uF 20% 16V
C338	1-130-481-00	MYLAR	0.0068uF 5% 50V	C904	1-130-483-00	MYLAR	0.01uF 5% 50V
C339	1-130-481-00	MYLAR	0.0068uF 5% 50V	C905	1-130-483-00	MYLAR	0.01uF 5% 50V
C340	1-130-486-00	MYLAR	0.018uF 10% 50V	C906	1-126-933-11	ELECT	100uF 20% 16V
C341	1-126-964-11	ELECT	10uF 20% 50V	C908	1-136-165-00	FILM	0.1uF 5% 50V
C342	1-126-947-11	ELECT	47uF 20% 16V	C909	1-136-165-00	FILM	0.1uF 5% 50V
C351	1-130-483-00	MYLAR	0.01uF 5% 50V	C910	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C353	1-136-165-00	FILM	0.1uF 5% 50V	C911	1-126-935-11	ELECT	470uF 20% 16V
C354	1-126-964-11	ELECT	10uF 20% 50V	C912	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C355	1-126-960-11	ELECT	1uF 20% 50V	C913	1-126-935-11	ELECT	470uF 20% 16V
C356	1-126-961-11	ELECT	2.2uF 20% 50V	C914	1-126-935-11	ELECT	470uF 20% 16V
C359	1-126-947-11	ELECT	47uF 20% 16V	C915	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C361	1-126-964-11	ELECT	10uF 20% 50V	C917	1-126-935-11	ELECT	470uF 20% 10V
C364	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	C918	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C365	1-126-960-11	ELECT	1uF 20% 50V	C919	1-104-656-91	ELECT	2200uF 20% 6.3V
C371	1-164-392-11	CERAMIC CHIP	390PF 10% 50V	C920	1-126-964-11	ELECT	10uF 20% 50V
C376	1-164-392-11	CERAMIC CHIP	390PF 10% 50V	C921	1-126-968-11	ELECT	100uF 20% 50V
C381	1-130-483-00	MYLAR	0.01uF 5% 50V	C922	1-126-961-11	ELECT	2.2uF 20% 50V
C382	1-137-427-11	MYLAR	120PF 5% 50V	C923	1-126-961-11	ELECT	2.2uF 20% 50V
C383	1-162-961-11	CERAMIC CHIP	330PF 10% 50V	C924	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C384	1-162-946-11	CERAMIC CHIP	27PF 5% 50V			< CONNECTOR >	
C385	1-126-964-11	ELECT	10uF 20% 50V	CN201	1-779-299-11	CONNECTOR,FFC(LIF(NON-ZIF))31P	
C386	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	* CN301	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P	
C387	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	* CN304	1-569-930-11	SOCKET, CONNECTOR 13P	
C390	1-126-935-11	ELECT	470uF 20% 10V	* CN402	1-569-935-11	SOCKET, CONNECTOR 19P	
C391	1-126-933-11	ELECT	100uF 20% 16V	CN501	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE)4P	
C395	1-162-919-11	CERAMIC CHIP	22PF 5% 50V	CN502	1-785-336-11	PIN, CONNECTOR(LIGHT ANGLE)10P	
C396	1-126-965-91	ELECT	22uF 20% 50V	CN702	1-569-906-11	SOCKET, CONNECTOR 11P	
C397	1-126-964-11	ELECT	10uF 20% 50V	CN851	1-564-506-11	PLUG, CONNECTOR 3P	
C398	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	CN901	1-770-726-11	CONNECTOR, BOARD TO BOARD 6P	
C399	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
CN902	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P				< JUMPER RESISTOR >	
		< DIODE >		JR001	1-216-296-11	SHORT CHIP	0
D130	8-719-988-61	DIODE 1SS355TE-17		JR003	1-216-864-11	METAL CHIP	0 5% 1/10W
D392	8-719-988-61	DIODE 1SS355TE-17		JR005	1-216-864-11	METAL CHIP	0 5% 1/10W
D393	8-719-988-61	DIODE 1SS355TE-17		JR006	1-216-296-11	SHORT CHIP	0
D394	8-719-988-61	DIODE 1SS355TE-17		JR007	1-216-296-11	SHORT CHIP	0
D501	8-719-988-61	DIODE 1SS355TE-17		JR008	1-216-864-11	METAL CHIP	0 5% 1/10W
D502	8-719-988-61	DIODE 1SS355TE-17		JR009	1-216-864-11	METAL CHIP	0 5% 1/10W
D503	8-719-988-61	DIODE 1SS355TE-17		JR011	1-216-296-11	SHORT CHIP	0
D504	8-719-988-61	DIODE 1SS355TE-17		JR012	1-216-296-11	SHORT CHIP	0
D505	8-719-988-61	DIODE 1SS355TE-17		JR013	1-216-864-11	METAL CHIP	0 5% 1/10W
D508	8-719-988-61	DIODE 1SS355TE-17		JR015	1-216-864-11	METAL CHIP	0 5% 1/10W
D509	8-719-988-61	DIODE 1SS355TE-17		JR016	1-216-864-11	METAL CHIP	0 5% 1/10W
D601	8-719-988-61	DIODE 1SS355TE-17		JR017	1-216-864-11	METAL CHIP	0 5% 1/10W
D602	8-719-988-61	DIODE 1SS355TE-17		JR018	1-216-864-11	METAL CHIP	0 5% 1/10W
D603	8-719-988-61	DIODE 1SS355TE-17		JR022	1-216-864-11	METAL CHIP	0 5% 1/10W
D901	8-719-028-23	DIODE D3SBA20-4101		JR024	1-216-864-11	METAL CHIP	0 5% 1/10W
D909	6-500-522-21	DIODE 10EDB40-TB3		JR026	1-414-760-21	FERRITE	0uH
D910	6-500-522-21	DIODE 10EDB40-TB3		JR045	1-216-296-11	SHORT CHIP	0
D911	6-500-522-21	DIODE 10EDB40-TB3		JR103	1-216-864-11	METAL CHIP	0 5% 1/10W
D912	6-500-522-21	DIODE 10EDB40-TB3		JR104	1-216-296-11	SHORT CHIP	0
D913	6-500-522-21	DIODE 10EDB40-TB3		JR118	1-216-296-11	SHORT CHIP	0
D914	6-500-522-21	DIODE 10EDB40-TB3		JR130	1-216-864-11	METAL CHIP	0 5% 1/10W
D915	6-500-522-21	DIODE 10EDB40-TB3		JR138	1-216-864-11	METAL CHIP	0 5% 1/10W
D917	8-719-988-61	DIODE 1SS355TE-17		JR390	1-216-864-11	METAL CHIP	0 5% 1/10W
D941	8-719-083-87	DIODE UDZ-TE-17-33B				< COIL >	
		< FERRITE BEAD >		L301	1-410-780-11	INDUCTOR	27mH
FB117	1-216-864-11	METAL CHIP	0 5% 1/10W	L302	1-414-189-31	INDUCTOR	100uH
FB167	1-216-864-11	METAL CHIP	0 5% 1/10W	L351	1-410-780-11	INDUCTOR	27mH
FB201	1-419-152-11	FERRITE	0uH			< TRANSISTOR >	
FB202	1-216-864-11	METAL CHIP	0 5% 1/10W	Q101	8-729-120-12	TRANSISTOR	2SC1623-T1-L5L6
FB203	1-216-864-11	METAL CHIP	0 5% 1/10W	Q151	8-729-120-12	TRANSISTOR	2SC1623-T1-L5L6
FB204	1-216-864-11	METAL CHIP	0 5% 1/10W	Q201	8-729-802-82	TRANSISTOR	2SC3661-TB
FB205	1-216-864-11	METAL CHIP	0 5% 1/10W	Q206	8-729-027-43	TRANSISTOR	DTC114EKA-T146
FB284	1-216-864-11	METAL CHIP	0 5% 1/10W	Q207	8-729-027-31	TRANSISTOR	DTA124EKA-T146
FB286	1-216-864-11	METAL CHIP	0 5% 1/10W	Q251	8-729-802-82	TRANSISTOR	2SC3661-TB
FB516	1-414-772-11	FERRITE	0uH	Q301	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16
FB562	1-414-772-11	FERRITE	0uH	Q302	8-729-142-47	TRANSISTOR	2SC2001TP-LK
		< IC >		Q303	8-729-142-47	TRANSISTOR	2SC2001TP-LK
IC102	6-703-650-11	IC M61529FP-D60G		Q304	8-729-027-31	TRANSISTOR	DTA124EKA-T146
IC201	8-749-019-25	IC TOTX141 (CD DIGITAL OUT)		Q305	8-729-027-43	TRANSISTOR	DTC114EKA-T146
IC301	6-702-130-01	IC HA12237F		Q306	8-729-027-43	TRANSISTOR	DTC114EKA-T146
IC302	8-759-143-54	IC UPC1330HA		Q307	8-729-216-22	TRANSISTOR	2SA812-T1-M5M6
IC303	8-759-274-71	IC NJM4565M(TE2)		Q310	8-729-027-43	TRANSISTOR	DTC114EKA-T146
IC501	6-803-442-01	IC M30622MGN-B23FP		Q389	8-729-027-43	TRANSISTOR	DTC114EKA-T146
IC502	6-703-610-01	IC RT8H015C-T112-1		Q390	8-729-027-43	TRANSISTOR	DTC114EKA-T146
IC601	8-759-533-04	IC M62703ML-E1		Q391	8-729-141-87	TRANSISTOR	2SB1116-TP-LK
IC901	8-759-231-56	IC TA7809S		Q392	8-729-027-43	TRANSISTOR	DTC114EKA-T146
IC902	8-759-231-56	IC TA7809S		Q393	8-729-116-61	TRANSISTOR	2SB1068TP-K
IC903	6-703-546-01	IC TA7804LS		Q394	8-729-027-43	TRANSISTOR	DTC114EKA-T146
IC904	6-702-771-01	IC TA78033LS		Q395	8-729-027-43	TRANSISTOR	DTC114EKA-T146
		< JACK >		Q396	8-729-141-87	TRANSISTOR	2SB1116-TP-LK
J117	1-815-041-11	JACK, PIN 2P (MD/VIDEO(AUDIO) IN)		Q398	8-729-027-43	TRANSISTOR	DTC114EKA-T146
J716	1-785-867-11	JACK, PIN 1PP (VIDEO OUT)		Q399	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16
				Q601	8-729-120-12	TRANSISTOR	2SC1623-T1-L5L6
				Q602	8-729-014-97	TRANSISTOR	FA1L3Z-T1B
				Q620	8-729-802-82	TRANSISTOR	2SC3661-TB

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## MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
Q621	8-729-802-82	TRANSISTOR 2SC3661-TB		R304	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q650	8-729-027-31	TRANSISTOR DTA124EKA-T146		R305	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q651	8-729-027-43	TRANSISTOR DTC114EKA-T146		R306	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q652	8-729-027-31	TRANSISTOR DTA124EKA-T146		R307	1-216-857-11	METAL CHIP 1M 5%	1/10W
Q670	8-729-802-82	TRANSISTOR 2SC3661-TB		R308	1-216-809-11	METAL CHIP 100 5%	1/10W
Q671	8-729-802-82	TRANSISTOR 2SC3661-TB		R309	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q851	8-729-141-87	TRANSISTOR 2SB1116-TP-LK		R310	1-216-809-11	METAL CHIP 100 5%	1/10W
Q852	8-729-661-90	TRANSISTOR 2SC2603TP-EF		R312	1-216-809-11	METAL CHIP 100 5%	1/10W
Q901	8-729-040-20	TRANSISTOR RT1P137L-TP		R313	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q902	8-729-027-43	TRANSISTOR DTC114EKA-T146		R314	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q903	8-729-209-60	TRANSISTOR 2SB1375		R315	1-216-833-11	METAL CHIP 10K 5%	1/10W
< RESISTOR >				R316	1-216-833-11	METAL CHIP 10K 5%	1/10W
R101	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R317	1-216-833-11	METAL CHIP 10K 5%	1/10W
R102	1-216-833-11	METAL CHIP 10K 5%	1/10W	R320	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R103	1-220-373-11	METAL CHIP 620 5%	1/10W	R327	1-216-835-11	METAL CHIP 15K 5%	1/10W
R104	1-216-821-11	METAL CHIP 1K 5%	1/10W	R328	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R105	1-216-841-11	METAL CHIP 47K 5%	1/10W	R329	1-216-833-11	METAL CHIP 10K 5%	1/10W
R106	1-216-833-11	METAL CHIP 10K 5%	1/10W	R330	1-216-837-11	METAL CHIP 22K 5%	1/10W
R107	1-216-809-11	METAL CHIP 100 5%	1/10W	R332	1-216-832-11	METAL CHIP 8.2K 5%	1/10W
R110	1-216-864-11	METAL CHIP 0 5%	1/10W	R333	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R112	1-216-864-11	METAL CHIP 0 5%	1/10W	R334	1-216-845-11	METAL CHIP 100K 5%	1/10W
R117	1-216-845-11	METAL CHIP 100K 5%	1/10W	R342	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R118	1-216-821-11	METAL CHIP 1K 5%	1/10W	△R343	1-219-787-51	FUSIBLE 5.6 5%	1/4W
R121	1-216-821-11	METAL CHIP 1K 5%	1/10W	△R344	1-219-787-51	FUSIBLE 5.6 5%	1/4W
R122	1-216-821-11	METAL CHIP 1K 5%	1/10W	R345	1-216-836-11	METAL CHIP 18K 5%	1/10W
R130	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R346	1-216-836-11	METAL CHIP 18K 5%	1/10W
R131	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R347	1-216-830-11	METAL CHIP 5.6K 5%	1/10W
R132	1-216-857-11	METAL CHIP 1M 5%	1/10W	R351	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R133	1-216-845-11	METAL CHIP 100K 5%	1/10W	R352	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R134	1-218-701-11	METAL CHIP 2.4K 5%	1/10W	R353	1-216-833-11	METAL CHIP 10K 5%	1/10W
R140	1-216-833-11	METAL CHIP 10K 5%	1/10W	R354	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R141	1-216-809-11	METAL CHIP 100 5%	1/10W	R355	1-216-841-11	METAL CHIP 47K 5%	1/10W
R142	1-216-809-11	METAL CHIP 100 5%	1/10W	R360	1-216-819-11	METAL CHIP 680 5%	1/10W
R150	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R361	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R151	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R362	1-216-833-11	METAL CHIP 10K 5%	1/10W
R152	1-216-833-11	METAL CHIP 10K 5%	1/10W	R363	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R153	1-220-373-11	METAL CHIP 620 5%	1/10W	R364	1-216-819-11	METAL CHIP 680 5%	1/10W
R154	1-216-821-11	METAL CHIP 1K 5%	1/10W	R365	1-216-833-11	METAL CHIP 10K 5%	1/10W
R155	1-216-841-11	METAL CHIP 47K 5%	1/10W	R366	1-216-819-11	METAL CHIP 680 5%	1/10W
R156	1-216-833-11	METAL CHIP 10K 5%	1/10W	R367	1-216-833-11	METAL CHIP 10K 5%	1/10W
R157	1-216-809-11	METAL CHIP 100 5%	1/10W	R368	1-216-833-11	METAL CHIP 10K 5%	1/10W
R167	1-216-845-11	METAL CHIP 100K 5%	1/10W	R369	1-216-833-11	METAL CHIP 10K 5%	1/10W
R168	1-216-821-11	METAL CHIP 1K 5%	1/10W	R370	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R204	1-216-833-11	METAL CHIP 10K 5%	1/10W	R371	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R205	1-216-821-11	METAL CHIP 1K 5%	1/10W	R372	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R206	1-216-839-11	RES CHIP 33K 5%	1/10W	R373	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R224	1-216-826-11	METAL CHIP 2.7K 5%	1/10W	R374	1-216-833-11	METAL CHIP 10K 5%	1/10W
R226	1-216-847-11	METAL CHIP 150K 5%	1/10W	R375	1-216-833-11	METAL CHIP 10K 5%	1/10W
R228	1-216-843-11	METAL CHIP 68K 5%	1/10W	R376	1-216-833-11	METAL CHIP 10K 5%	1/10W
R254	1-216-833-11	METAL CHIP 10K 5%	1/10W	R377	1-216-833-11	METAL CHIP 10K 5%	1/10W
R255	1-216-821-11	METAL CHIP 1K 5%	1/10W	R378	1-216-833-11	METAL CHIP 10K 5%	1/10W
R256	1-216-839-11	RES CHIP 33K 5%	1/10W	R379	1-216-833-11	METAL CHIP 10K 5%	1/10W
R284	1-216-853-11	METAL CHIP 470K 5%	1/10W	R380	1-216-837-11	METAL CHIP 22K 5%	1/10W
R285	1-216-837-11	METAL CHIP 22K 5%	1/10W	R382	1-216-832-11	METAL CHIP 8.2K 5%	1/10W
R286	1-216-837-11	METAL CHIP 22K 5%	1/10W	R387	1-216-833-11	METAL CHIP 10K 5%	1/10W
R301	1-216-827-11	METAL CHIP 3.3K 5%	1/10W	R388	1-216-837-11	METAL CHIP 22K 5%	1/10W
R302	1-216-829-11	METAL CHIP 4.7K 5%	1/10W				
R303	1-216-833-11	METAL CHIP 10K 5%	1/10W				

Os componentes identificados com a marca △ são críticos para a segurança. Somente substitua por peças numericamente especificadas.

Ref. No.	Part No.	Description	Quantity	Unit	Percentage	Remarks	Ref. No.	Part No.	Description	Quantity	Unit	Percentage	Remarks
R390	1-216-833-11	METAL CHIP	10K		5%	1/10W	R539	1-216-809-11	METAL CHIP	100		5%	1/10W
R391	1-216-827-11	METAL CHIP	3.3K		5%	1/10W	R540	1-216-809-11	METAL CHIP	100		5%	1/10W
R392	1-216-825-11	METAL CHIP	2.2K		5%	1/10W	R541	1-216-809-11	METAL CHIP	100		5%	1/10W
R393	1-216-829-11	METAL CHIP	4.7K		5%	1/10W	R542	1-216-833-11	METAL CHIP	10K		5%	1/10W
R394	1-216-833-11	METAL CHIP	10K		5%	1/10W	R543	1-216-833-11	METAL CHIP	10K		5%	1/10W
R395	1-216-829-11	METAL CHIP	4.7K		5%	1/10W	R544	1-216-833-11	METAL CHIP	10K		5%	1/10W
R396	1-216-833-11	METAL CHIP	10K		5%	1/10W	R545	1-216-833-11	METAL CHIP	10K		5%	1/10W
R397	1-216-835-11	METAL CHIP	15K		5%	1/10W	R549	1-216-833-11	METAL CHIP	10K		5%	1/10W
R398	1-216-861-11	METAL CHIP	2.2M		5%	1/10W	R550	1-216-833-11	METAL CHIP	10K		5%	1/10W
R399	1-216-827-11	METAL CHIP	3.3K		5%	1/10W	R560	1-216-809-11	METAL CHIP	100		5%	1/10W
R401	1-216-833-11	METAL CHIP	10K		5%	1/10W	R561	1-216-809-11	METAL CHIP	100		5%	1/10W
R402	1-216-833-11	METAL CHIP	10K		5%	1/10W	R563	1-216-833-11	METAL CHIP	10K		5%	1/10W
R419	1-216-809-11	METAL CHIP	100		5%	1/10W	R565	1-216-809-11	METAL CHIP	100		5%	1/10W
R420	1-216-829-11	METAL CHIP	4.7K		5%	1/10W	R566	1-216-809-11	METAL CHIP	100		5%	1/10W
R421	1-216-833-11	METAL CHIP	10K		5%	1/10W	R567	1-216-809-11	METAL CHIP	100		5%	1/10W
R422	1-216-833-11	METAL CHIP	10K		5%	1/10W	R568	1-216-809-11	METAL CHIP	100		5%	1/10W
R427	1-216-809-11	METAL CHIP	100		5%	1/10W	R573	1-216-833-11	METAL CHIP	10K		5%	1/10W
R429	1-216-809-11	METAL CHIP	100		5%	1/10W	R574	1-216-833-11	METAL CHIP	10K		5%	1/10W
R430	1-216-809-11	METAL CHIP	100		5%	1/10W	R575	1-216-809-11	METAL CHIP	100		5%	1/10W
R431	1-216-845-11	METAL CHIP	100K		5%	1/10W	R576	1-216-809-11	METAL CHIP	100		5%	1/10W
R432	1-216-809-11	METAL CHIP	100		5%	1/10W	R577	1-216-809-11	METAL CHIP	100		5%	1/10W
R433	1-216-809-11	METAL CHIP	100		5%	1/10W	R578	1-216-809-11	METAL CHIP	100		5%	1/10W
R434	1-216-817-11	METAL CHIP	470		5%	1/10W	R579	1-216-809-11	METAL CHIP	100		5%	1/10W
R442	1-216-809-11	METAL CHIP	100		5%	1/10W	R580	1-216-809-11	METAL CHIP	100		5%	1/10W
R443	1-216-809-11	METAL CHIP	100		5%	1/10W	R581	1-216-809-11	METAL CHIP	100		5%	1/10W
R444	1-216-809-11	METAL CHIP	100		5%	1/10W	R583	1-216-809-11	METAL CHIP	100		5%	1/10W
R445	1-216-809-11	METAL CHIP	100		5%	1/10W	R584	1-216-809-11	METAL CHIP	100		5%	1/10W
R446	1-216-809-11	METAL CHIP	100		5%	1/10W	R585	1-216-809-11	METAL CHIP	100		5%	1/10W
R447	1-216-809-11	METAL CHIP	100		5%	1/10W	R586	1-216-809-11	METAL CHIP	100		5%	1/10W
R448	1-216-817-11	METAL CHIP	470		5%	1/10W	R587	1-216-809-11	METAL CHIP	100		5%	1/10W
R450	1-216-809-11	METAL CHIP	100		5%	1/10W	R588	1-216-809-11	METAL CHIP	100		5%	1/10W
R473	1-216-809-11	METAL CHIP	100		5%	1/10W	R589	1-216-809-11	METAL CHIP	100		5%	1/10W
R474	1-216-809-11	METAL CHIP	100		5%	1/10W	R590	1-216-809-11	METAL CHIP	100		5%	1/10W
R477	1-216-833-11	METAL CHIP	10K		5%	1/10W	R591	1-216-809-11	METAL CHIP	100		5%	1/10W
R478	1-216-833-11	METAL CHIP	10K		5%	1/10W	R592	1-216-829-11	METAL CHIP	4.7K		5%	1/10W
R492	1-216-821-11	METAL CHIP	1K		5%	1/10W	R593	1-216-821-11	METAL CHIP	1K		5%	1/10W
R493	1-216-829-11	METAL CHIP	4.7K		5%	1/10W	R594	1-216-821-11	METAL CHIP	1K		5%	1/10W
R501	1-216-821-11	METAL CHIP	1K		5%	1/10W	R597	1-216-809-11	METAL CHIP	100		5%	1/10W
R502	1-216-821-11	METAL CHIP	1K		5%	1/10W	R600	1-216-809-11	METAL CHIP	100		5%	1/10W
R503	1-216-809-11	METAL CHIP	100		5%	1/10W	R601	1-216-813-11	METAL CHIP	220		5%	1/10W
R504	1-216-809-11	METAL CHIP	100		5%	1/10W	R602	1-216-829-11	METAL CHIP	4.7K		5%	1/10W
R505	1-216-817-11	METAL CHIP	470		5%	1/10W	R603	1-216-841-11	METAL CHIP	47K		5%	1/10W
R506	1-216-817-11	METAL CHIP	470		5%	1/10W	R604	1-216-841-11	METAL CHIP	47K		5%	1/10W
R507	1-216-817-11	METAL CHIP	470		5%	1/10W	R620	1-216-833-11	METAL CHIP	10K		5%	1/10W
R509	1-216-833-11	METAL CHIP	10K		5%	1/10W	R621	1-216-821-11	METAL CHIP	1K		5%	1/10W
R511	1-216-851-11	METAL CHIP	330K		5%	1/10W	R622	1-216-841-11	METAL CHIP	47K		5%	1/10W
R513	1-216-864-11	METAL CHIP	0		5%	1/10W	R623	1-216-833-11	METAL CHIP	10K		5%	1/10W
R517	1-216-833-11	METAL CHIP	10K		5%	1/10W	R624	1-215-891-51	METAL OXIDE	680		5%	2W
R518	1-216-809-11	METAL CHIP	100		5%	1/10W	R625	1-216-821-11	METAL CHIP	1K		5%	1/10W
R519	1-216-833-11	METAL CHIP	10K		5%	1/10W	R626	1-216-806-11	METAL CHIP	56		5%	1/10W
R521	1-216-809-11	METAL CHIP	100		5%	1/10W	R650	1-216-835-11	METAL CHIP	15K		5%	1/10W
R522	1-216-809-11	METAL CHIP	100		5%	1/10W	R651	1-216-853-11	METAL CHIP	470K		5%	1/10W
R523	1-216-833-11	METAL CHIP	10K		5%	1/10W	R652	1-216-843-11	METAL CHIP	68K		5%	1/10W
R529	1-216-833-11	METAL CHIP	10K		5%	1/10W	R653	1-216-821-11	METAL CHIP	1K		5%	1/10W
R530	1-216-833-11	METAL CHIP	10K		5%	1/10W	R654	1-216-845-11	METAL CHIP	100K		5%	1/10W
R532	1-216-841-11	METAL CHIP	47K		5%	1/10W	R655	1-216-845-11	METAL CHIP	100K		5%	1/10W
R535	1-216-817-11	METAL CHIP	470		5%	1/10W	R656	1-216-833-11	METAL CHIP	10K		5%	1/10W
R536	1-216-809-11	METAL CHIP	100		5%	1/10W	R670	1-216-833-11	METAL CHIP	10K		5%	1/10W
R537	1-216-817-11	METAL CHIP	470		5%	1/10W	R671	1-216-821-11	METAL CHIP	1K		5%	1/10W
R538	1-216-809-11	METAL CHIP	100		5%	1/10W	R672	1-216-841-11	METAL CHIP	47K		5%	1/10W

# MHC-GN900

<b>MAIN</b>	<b>MOTOR (LD)</b>	<b>MOTOR (TB)</b>	<b>POWER AMP</b>
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Ref. No.	Part No.	Description	Remarks
R673	1-216-833-11	METAL CHIP 10K 5%	1/10W
R674	1-215-891-51	METAL OXIDE 680 5%	2W
R675	1-216-821-11	METAL CHIP 1K 5%	1/10W
R676	1-216-806-11	METAL CHIP 56 5%	1/10W
R851	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R852	1-216-833-11	METAL CHIP 10K 5%	1/10W
R853	1-216-422-11	METAL OXIDE 18 5%	1W
R854	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R901	1-216-826-11	METAL CHIP 2.7K 5%	1/10W
R902	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R903	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R904	1-216-832-11	METAL CHIP 8.2K 5%	1/10W
R905	1-216-832-11	METAL CHIP 8.2K 5%	1/10W
R906	1-216-821-11	METAL CHIP 1K 5%	1/10W
R908	1-216-833-11	METAL CHIP 10K 5%	1/10W
R913	1-216-841-11	METAL CHIP 47K 5%	1/10W
< VARIABLE RESISTOR >			
RV301	1-241-632-21	RES, ADJ, CARBON 47K (REC LEVEL (L))	
RV304	1-241-634-21	RES, ADJ, CARBON 220K (REC BIAS (L))	
RV351	1-241-632-21	RES, ADJ, CARBON 47K (REC LEVEL (R))	
RV354	1-241-634-21	RES, ADJ, CARBON 220K (REC BIAS (R))	
< TRANSFORMER >			
T301	1-423-980-11	TRANSFORMER, BIAS OSCILLATION	
< VIBRATOR >			
X501	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)	
X502	1-781-107-21	VIBRATOR, SERAMIC (16MHz)	
*****			
1-687-133-11	PLACA MOTOR (LD)	*****	
*****			
1-687-134-11	PALCA MOTOR (TB)	*****	
< CONNECTOR >			
CN742	1-784-727-11	CONNECTOR, FFC 5P	
*****			
Y-8284-119-A	PLACA POWER AMP MONTADA	*****	
7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S		
< CAPASITOR >			
C501	1-126-963-11	ELECT 4.7uF 20%	50V
C502	1-162-294-31	CERAMIC 0.001uF 10%	50V
C503	1-162-282-31	CERAMIC 100PF 10%	50V
C504	1-104-665-11	ELECT 100uF 20%	10V
C507	1-136-495-11	FILM 0.068uF 5%	50V
C508	1-136-495-11	FILM 0.068uF 5%	50V
C509	1-128-560-11	ELECT 22uF 20%	100V
C512	1-162-306-11	CERAMIC 0.01uF 20%	16V
C513	1-164-159-11	CERAMIC 0.1uF	50V
C516	1-104-665-11	ELECT 100uF 20%	10V
C517	1-126-964-11	ELECT 10uF 20%	50V
C523	1-162-306-11	CERAMIC 0.01uF 30%	16V
C524	1-162-306-11	CERAMIC 0.01uF 30%	16V

Ref. No.	Part No.	Description	Remarks
C526	1-126-964-11	ELECT 10uF 20%	50V
C541	1-136-165-00	FILM 0.1uF 5%	50V
C542	1-127-812-11	ELECT 3300uF 20%	63V
C544	1-130-777-00	MYLAR 0.1uF 5%	100V
C545	1-130-777-00	MYLAR 0.1uF 5%	100V
C546	1-137-843-11	ELECT 2200uF 20%	100V
C551	1-126-963-11	ELECT 4.7uF 20%	50V
C552	1-162-294-31	CERAMIC 0.001uF 10%	50V
C553	1-162-282-31	CERAMIC 100PF 10%	50V
C554	1-104-665-11	ELECT 100uF 20%	10V
C557	1-136-495-11	FILM 0.068uF 5%	50V
C558	1-136-495-11	FILM 0.068uF 5%	50V
C559	1-128-560-11	ELECT 22uF 20%	100V
C581	1-126-965-91	ELECT 22uF 20%	50V
C591	1-136-165-00	FILM 0.1uF 5%	50V
C592	1-127-811-11	ELECT 3300uF 20%	50V
C596	1-137-843-11	ELECT 2200uF 20%	100V
< CONNECTOR >			
CN503	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P	
CN504	1-770-722-11	CONNECTOR, BOARD TO BOARD 6P	
< DIODE >			
D501	8-719-991-33	DIODE 1SS133T-72	
D502	8-719-991-33	DIODE 1SS133T-72	
D503	8-719-923-97	DIODE MTZJ-T-77-18C	
D504	8-719-923-97	DIODE MTZJ-T-77-18C	
D506	8-719-991-33	DIODE 1SS133T-72	
D507	8-719-991-33	DIODE 1SS133T-72	
D508	8-719-991-33	DIODE 1SS133T-72	
D509	8-719-991-33	DIODE 1SS133T-72	
D511	8-719-991-33	DIODE 1SS133T-72	
D541	8-719-500-60	DIODE D5SBA204101	
D543	8-719-033-58	DIODE RBV-1506	
D551	8-719-991-33	DIODE 1SS133T-72	
D581	8-719-991-33	DIODE 1SS133T-72	
< EARTH TERMINAL >			
* EP501	1-537-738-21	TERMINAL, EARTH	
* EP502	1-537-738-21	TERMINAL, EARTH	
< IC >			
IC501	8-749-017-07	IC STK412-170	
< TRANSISTOR >			
Q501	8-729-140-85	TRANSISTOR 2SC1841TP-PAFAEA	
Q503	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q504	8-729-140-85	TRANSISTOR 2SC1841TP-PAFAEA	
Q505	8-729-139-97	TRANSISTOR 2SC2785TP-FEK	
Q506	8-729-139-97	TRANSISTOR 2SC2785TP-FEK	
Q510	8-729-139-97	TRANSISTOR 2SC2785TP-FEK	
Q511	8-729-139-97	TRANSISTOR 2SC2785TP-FEK	
Q514	8-729-139-97	TRANSISTOR 2SC2785TP-FEK	
Q516	8-729-139-97	TRANSISTOR 2SC2785TP-FEK	
Q517	8-729-139-98	TRANSISTOR 2SA1175TP-HFE	
Q518	8-729-139-97	TRANSISTOR 2SC2785TP-FEK	
Q551	8-729-140-85	TRANSISTOR 2SC1841TP-PAFAEA	
Q581	8-729-140-85	TRANSISTOR 2SC1841TP-PAFAEA	

## POWER AMP

## SENSOR

## SUB TRANS

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< RESISTOR >		R592	1-249-441-11	CARBON 100K 5%	1/4W
R501	1-249-417-11	CARBON 1K 5%	1/4W F			< RELAY >	
R502	1-249-437-11	CARBON 47K 5%	1/4W				
R503	1-247-815-91	CARBON 220 5%	1/4W	RY501	1-755-273-21	RELAY	
R504	1-249-437-11	CARBON 47K 5%	1/4W			< THERMISTOR >	
R505	1-249-417-11	CARBON 1K 5%	1/4W F				
R506	1-247-867-91	CARBON 33K 5%	1/4W	TH501	1-807-796-11	THERMISTOR	
R507	1-249-441-11	CARBON 100K 5%	1/4W	TH502	1-807-796-11	THERMISTOR	
△ R508	1-234-798-11	ENCAPSULATED COMPONENT				< TERMINAL >	
R509	1-260-076-11	CARBON 10 5%	1/2W				
△ R511	1-212-881-91	FUSIBLE 100 5%	1/4W	TM501	1-694-884-11	TERMINAL BOARD (4P) (SPEAKER)	
△ R512	1-202-972-91	FUSIBLE 1 5%	1/4W	*****			
R513	1-249-435-11	CARBON 33K 5%	1/4W				
R514	1-249-421-11	CARBON 2.2K 5%	1/4W F		1-687-132-11	PLACA SENSOR	
R515	1-249-433-11	CARBON 22K 5%	1/4W			*****	
R516	1-249-429-11	CARBON 10K 5%	1/4W			< CONNECTOR >	
R517	1-249-429-11	CARBON 10K 5%	1/4W				
R518	1-249-435-11	CARBON 33K 5%	1/4W	CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE)3P	
R519	1-249-439-11	CARBON 68K 5%	1/4W	*****			
△ R520	1-215-872-51	METAL OXIDE 3.3K 5%	1W				
R521	1-249-441-11	CARBON 100K 5%	1/4W		A-4731-346-A	PLACA SUBTRANSFORMADOR	
						*****	
R522	1-249-441-11	CARBON 100K 5%	1/4W			< CAPACITOR >	
R523	1-249-440-11	CARBON 82K 5%	1/4W	△ C971	1-113-925-11	CERAMIC 0.01uF 20%	250V
△ R524	1-215-872-51	METAL OXIDE 3.3K 5%	1W	C973	1-126-933-11	ELECT 100uF 20%	16V
R527	1-249-438-11	CARBON 56K 5%	1/4W	C975	1-126-768-11	ELECT 2200uF 20%	16V
R528	1-249-437-11	CARBON 47K 5%	1/4W	C976	1-164-159-11	CERAMIC 0.1uF	50V
R529	1-249-433-11	CARBON 22K 5%	1/4W	C977	1-164-159-11	CERAMIC 0.1uF	50V
R530	1-249-433-11	CARBON 22K 5%	1/4W				
R531	1-247-887-91	CARBON 220K 5%	1/4W	C978	1-164-159-11	CERAMIC 0.1uF	50V
R532	1-249-441-11	CARBON 100K 5%	1/4W			< CONNECTOR >	
R533	1-249-437-11	CARBON 47K 5%	1/4W				
△ R539	1-215-887-51	METAL OXIDE 150 5%	2W	CN971	1-568-106-11	PIN, CONNECTOR(3.96MM PITCH)4P	
R541	1-249-441-11	CARBON 100K 5%	1/4W	CN974	1-564-321-00	PIN, CONNECTOR(3.96MM PITCH)2P	
R542	1-249-441-11	CARBON 100K 5%	1/4W	CN976	1-785-330-11	PIN, CONNECTOR 4P	
R545	1-249-417-11	CARBON 1K 5%	1/4W F			< DIODE >	
R546	1-249-433-11	CARBON 22K 5%	1/4W				
R547	1-249-437-11	CARBON 47K 5%	1/4W	D971	8-719-991-33	DIODE 1SS133T-72	
R548	1-249-437-11	CARBON 47K 5%	1/4W	D972	6-500-522-01	DIODE 10EDB40-TA1B2	
R551	1-249-417-11	CARBON 1K 5%	1/4W F	D973	6-500-522-01	DIODE 10EDB40-TA1B2	
R552	1-249-437-11	CARBON 47K 5%	1/4W	D974	6-500-522-01	DIODE 10EDB40-TA1B2	
R553	1-247-815-91	CARBON 220 5%	1/4W	D975	6-500-522-01	DIODE 10EDB40-TA1B2	
R554	1-249-437-11	CARBON 47K 5%	1/4W			< IC >	
R555	1-249-417-11	CARBON 1K 5%	1/4W F	IC971	6-703-546-01	IC TA7804LS	
R556	1-247-867-91	CARBON 33K 5%	1/4W			< TRANSISTOR >	
R557	1-249-441-11	CARBON 100K 5%	1/4W				
△ R558	1-234-798-11	ENCAPSULATED COMPONENT		Q971	8-729-139-97	TRANSISTOR 2SC2785TP-FEK	
R559	1-260-076-11	CARBON 10 5%	1/2W			< RESISTOR >	
△ R561	1-212-881-91	FUSIBLE 100 5%	1/4W				
R564	1-249-433-11	CARBON 22K 5%	1/4W				
R565	1-249-433-11	CARBON 22K 5%	1/4W				
R568	1-249-429-11	CARBON 10K 5%	1/4W	R974	1-249-441-11	CARBON 100K 5%	1/4W
R569	1-249-437-11	CARBON 47K 5%	1/4W	R975	1-249-429-11	CARBON 10K 5%	1/4W
R570	1-249-429-11	CARBON 10K 5%	1/4W			< RELAY >	
R572	1-249-441-11	CARBON 100K 5%	1/4W				
R577	1-247-807-31	CARBON 100 5%	1/4W				
R578	1-247-897-11	CARBON 560K 5%	1/4W	△ RY971	1-755-276-11	RELAY, POWER	
R581	1-249-435-11	CARBON 33K 5%	1/4W				
R582	1-249-435-11	CARBON 33K 5%	1/4W				
R591	1-249-441-11	CARBON 100K 5%	1/4W				

Os componentes identificados com a marca △ são críticos para a segurança. Somente substitua por peças numericamente especificadas.

# MHC-GN900

<b>SUB TRANS</b>	<b>SW</b>	<b>TRANS</b>	<b>VOLUME</b>
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Ref. No.	Part No.	Description	Remarks
		< SWITCH >	
△ S901	1-786-055-21	SELECTOR, VOLTAGE	
		< TRANSFORMER >	
△ T972	1-437-775-22	SUBTRANSFORMADOR	
*****			
	1-687-669-11	PLACA SW	
		*****	
		< SWITCH >	
S751	1-786-514-11	SWITCH, LEVER (SLIDE) (LEVER)	
*****			
	1-686-930-11	PLACA TRANSFORMADOR	
		*****	
		< CAPACITOR >	
C941	1-128-576-11	ELECT 100uF 20% 63V	
		< CONNECTOR >	
CN997	1-564-509-11	PLUG, CONNECTOR 6P	
* CN998	1-564-510-51	PLUG, CONNECTOR 7P	
		< DIODE >	
D977	6-500-522-01	DIODE 10EDB40-TA1B2	
		< FUSE HOLDER >	
FH9741	1-533-233-11	FUSE HOLDER	
FH9742	1-533-233-11	FUSE HOLDER	
FH9751	1-533-233-11	FUSE HOLDER	
FH9752	1-533-233-11	FUSE HOLDER	
FH9761	1-533-233-11	FUSE HOLDER	
FH9762	1-533-233-11	FUSE HOLDER	
FH9771	1-533-233-11	FUSE HOLDER	
FH9772	1-533-233-11	FUSE HOLDER	
FH9781	1-533-233-11	FUSE HOLDER	
FH9782	1-533-233-11	FUSE HOLDER	
		< RESISTOR >	
△ R941	1-219-124-81	FUSIBLE 0.68 5% 1/4W	
△ R952	1-219-120-81	FUSIBLE 0.15 5% 1/4W	
*****			
	A-4731-329-A	PLACA VOLUME MONTADA	
		*****	
		< CAPACITOR >	
C614	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C615	1-124-589-11	ELECT 47uF 20% 16V	
C750	1-164-159-11	CERAMIC 0.1uF 50V	
C751	1-164-159-11	CERAMIC 0.1uF 50V	
C752	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
CN605	1-569-910-11	SOCKET, CONNECTOR 17P	
		< DIODE >	
D1001	6-500-529-01	DIODE SLI-325URT31W (VOL 1)	

Ref. No.	Part No.	Description	Remarks
D1002	6-500-529-01	DIODE SLI-325URT31W (VOL 2)	
D1003	6-500-529-01	DIODE SLI-325URT31W (VOL 3)	
D1004	6-500-529-01	DIODE SLI-325URT31W (VOL 4)	
D1005	6-500-529-01	DIODE SLI-325URT31W (VOL 5)	
D1006	6-500-529-01	DIODE SLI-325URT31W (VOL 6)	
D1007	6-500-529-01	DIODE SLI-325URT31W (VOL 7)	
D1008	6-500-529-01	DIODE SLI-325URT31W (VOL 8)	
D1009	6-500-529-01	DIODE SLI-325URT31W (VOL 9)	
D1010	6-500-529-01	DIODE SLI-325URT31W (VOL 10)	
D1011	6-500-529-01	DIODE SLI-325URT31W (VOL 11)	
		< IC >	
IC603	6-600-174-01	IC RPM7240-H4	
		< TRANSISTOR >	
Q1001	8-729-029-67	TRANSISTOR DTC114ESA-TP	
Q1002	8-729-029-67	TRANSISTOR DTC114ESA-TP	
Q1003	8-729-029-67	TRANSISTOR DTC114ESA-TP	
Q1004	8-729-029-67	TRANSISTOR DTC114ESA-TP	
Q1005	8-729-029-67	TRANSISTOR DTC114ESA-TP	
Q1006	8-729-029-67	TRANSISTOR DTC114ESA-TP	
		< RESISTOR >	
R625	1-249-401-11	CARBON 47 5% 1/4W F	
R750	1-249-410-11	CARBON 270 5% 1/4W F	
R759	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R760	1-249-429-11	CARBON 10K 5% 1/4W F	
R761	1-249-431-11	CARBON 15K 5% 1/4W F	
R762	1-249-433-11	CARBON 22K 5% 1/4W F	
R763	1-249-435-11	CARBON 33K 5% 1/4W F	
R765	1-249-413-11	CARBON 470 5% 1/4W F	
R766	1-249-415-11	CARBON 680 5% 1/4W F	
R767	1-249-417-11	CARBON 1K 5% 1/4W F	
R768	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R769	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R770	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R771	1-247-843-11	CARBON 3.3K 5% 1/4W F	
R772	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R773	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R774	1-249-429-11	CARBON 10K 5% 1/4W F	
R775	1-249-431-11	CARBON 15K 5% 1/4W F	
R776	1-249-433-11	CARBON 22K 5% 1/4W F	
R777	1-249-435-11	CARBON 33K 5% 1/4W F	
R1001	1-249-413-11	CARBON 470 5% 1/4W F	
R1002	1-249-413-11	CARBON 470 5% 1/4W F	
R1003	1-249-413-11	CARBON 470 5% 1/4W F	
R1004	1-249-413-11	CARBON 470 5% 1/4W F	
R1005	1-249-413-11	CARBON 470 5% 1/4W F	
R1006	1-249-413-11	CARBON 470 5% 1/4W F	
R1007	1-249-413-11	CARBON 470 5% 1/4W F	
R1008	1-249-413-11	CARBON 470 5% 1/4W F	
R1009	1-249-413-11	CARBON 470 5% 1/4W F	
R1010	1-249-413-11	CARBON 470 5% 1/4W F	
R1011	1-249-413-11	CARBON 470 5% 1/4W F	

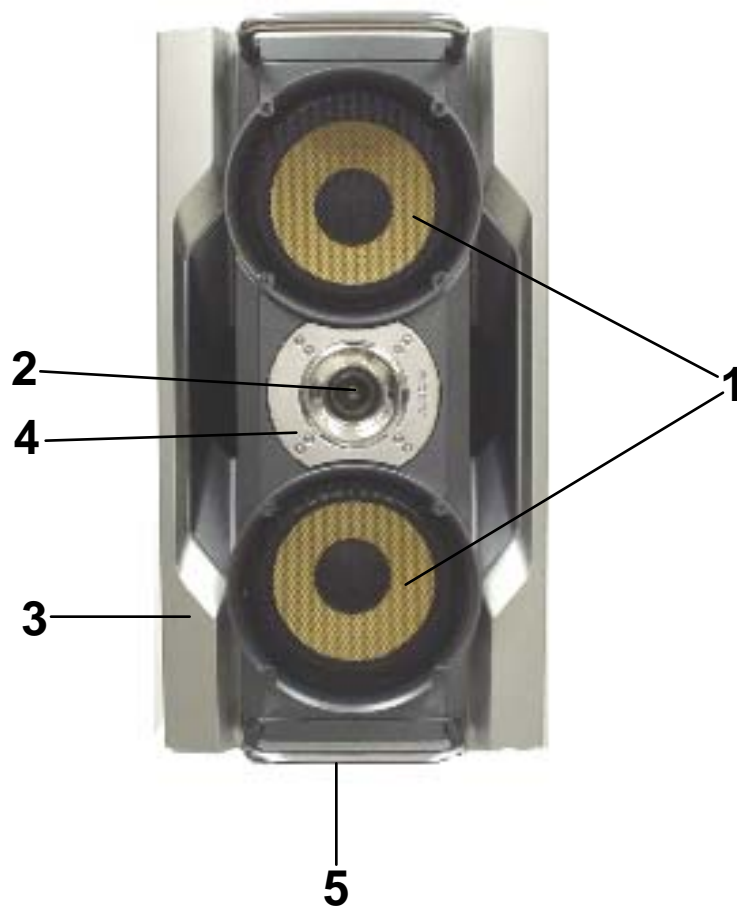
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Ref. No.	Part No.	Description	Remarks
		< SWITCH >	
S748	1-476-504-11	ENCODER, ROTARY (VOLUME)	ACESSÓRIOS FORNECIDOS
S750	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)	*****
S759	1-762-875-21	SWITCH, KEYBOARD (SURROUND SPEAKER MODE)	1-528-681-12 PILHA PEQUENA
S760	1-762-875-21	SWITCH, KEYBOARD (P.FILE)	1-793-184-22 CONECTOR ADAPTADOR (TIPO F)
S761	1-762-875-21	SWITCH, KEYBOARD (ILLUMINATION)	3-004-800-01 PE DE APOIO (SS)
S762	1-762-875-21	SWITCH, KEYBOARD (GAME EQ)	4-244-569-72 MANUAL DE INSTRUÇÕES
S763	1-762-875-21	SWITCH, KEYBOARD (GROOVE)	Y-8283-248-B CONJUNTO DE ANTENA LOOP
S765	1-762-875-21	SWITCH, KEYBOARD (EDIT/DIRECTION)	Y-8284-177-A CONTROLE REMOTO (RM-SR211)
S766	1-762-875-21	SWITCH, KEYBOARD (FM MODE/REPEAT)	4-228-953-01 TAMPA PILHA (RM-SR211)
S767	1-762-875-21	SWITCH, KEYBOARD (TUNER MEMORY/PLAY MODE)	1-928-176-03 FIO DE CONEXAO (SS-GN900)
S768	1-762-875-21	SWITCH, KEYBOARD (AMP MENU)	
S769	1-762-875-21	SWITCH, KEYBOARD (MUSIC EQ)	
S770	1-762-875-21	SWITCH, KEYBOARD (MOVIE EQ)	
S771	1-762-875-21	SWITCH, KEYBOARD (EFFECT ON/OFF)	
S773	1-786-528-11	SWITCH, ROTARY (←,→,↑,↓, PUSH ENTER)	
*****			
VARIADOS			
*****			
5	1-920-838-32	CABO TIPO FLAT (11 VIAS)	
6	1-693-623-11	BLOCO DE SINTONIA (FM/AM)	
70	1-773-040-11	CABO TIPO FLAT (17 VIAS)	
73	1-773-110-11	CABO TIPO FLAT (19 VIAS)	
75	1-796-487-31	MECANISMO DO DECK (CWM43RR01)	
79	1-751-688-11	CABO TIPO FLAT (13 VIAS)	
△ 103	1-928-185-03	CABO DE FORÇA	
152	1-776-182-11	CABO TIPO FLAT (5 VIAS)	
226	1-782-817-11	CABO TIPO FLAT (16 VIAS)	
227	1-775-280-11	CABO TIPO FLAT (31 VIAS)	
△ 229	A-4735-357-A	BASE ASSY, OP (including KSS-213DCP)	
230	1-471-035-11	MAGNETO MONTADO	
△ F974	1-533-473-11	FUSÍVEL RETARDADO(DIA. 5) (T6.3AL 250V)	
△ F975	1-533-473-11	FUSÍVEL RETARDADO(DIA. 5) (T6.3AL 250V)	
△ F976	1-533-494-31	FUSÍVEL RETARDADO(DIA. 5) (T8AL 250V)	
△ F977	1-533-473-11	FUSÍVEL RETARDADO(DIA. 5) (T8AL 250V)	
△ F978	1-533-471-11	FUSÍVEL RETARDADO(DIA. 5) (T4AL 250V)	
M741	A-4723-963-A	MOTOR ASSY, TABLE	
M751	A-4737-553-A	MOTOR ASSY, LOADING	
M891	1-763-488-61	VENTILADOR, DC	
RE701	1-477-680-11	ENCODER, ROTARY	
△ T910	1-439-890-11	TRANSFORMADOR DE FORÇA	

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## SEÇÃO 10 CAIXA ACÚSTICA



### LISTA DE PEÇAS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Descrição</u>
1	1-825-409-11	ALTO FALANTE WOOFER (16 cm)
2	1-825-509-11	ALTO FALANTE TWEETER (2.5cm)
3	4-247-448-71	PAINEL FRONTAL
4	4-247-454-01	CORNETA
5	4-247-452-01	ALÇA
	8-831-274-23	FIO PREPARADO
	6-900-710-00	CAIXA ACÚSTICA MONTADA(UNIDADE)

**SONY BRASIL LTDA.**  
**ENGENHARIA DE QUALIDADE**  
**Outubro / 2003**

<http://www.sony.com.br>