

Service
Service
Service

Service Manual

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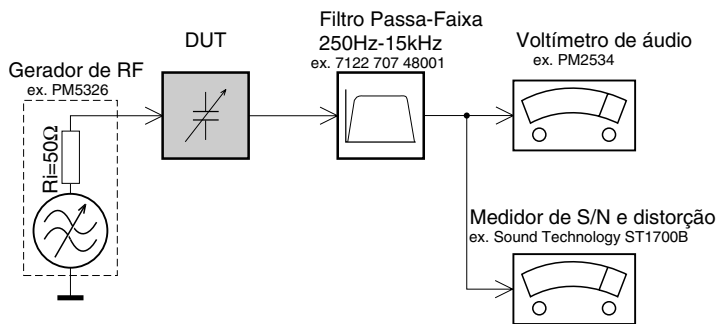


**CLASS 1
LASER PRODUCT**



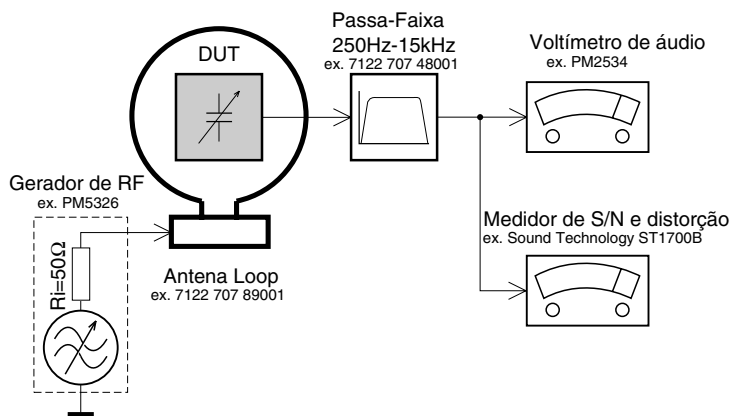
AJUSTES

Tuner FM



Use um filtro passa-faixa para eliminar ruídos (50Hz, 100Hz) e distorções do tom piloto (19kHz, 38kHz).

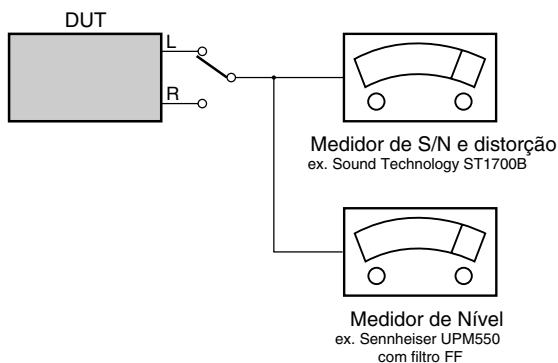
Tuner AM (MW,LW)



Para evitar interferências atmosféricas todas as medidas em AM devem ser feitas dentro de uma Gaiola de Faraday.
Use um filtro passa-faixa (ou um filtro passa altas de 250Hz) para eliminar ruídos (50Hz, 100Hz).

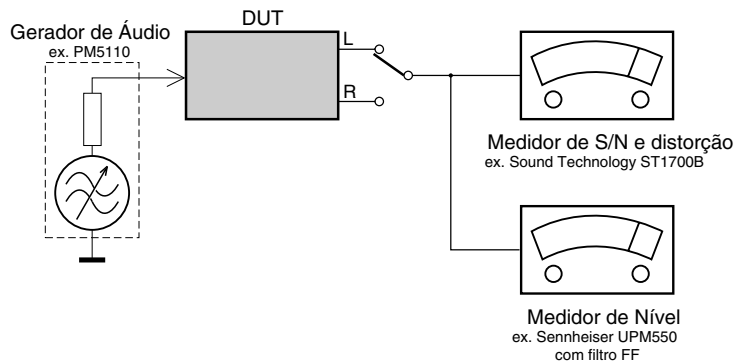
CD

Use um disco de sinal de áudio SBC429 4822 397 30184
(Substitui o disco de teste 3)

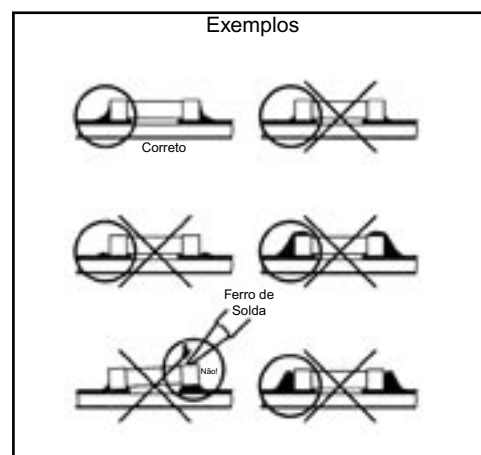
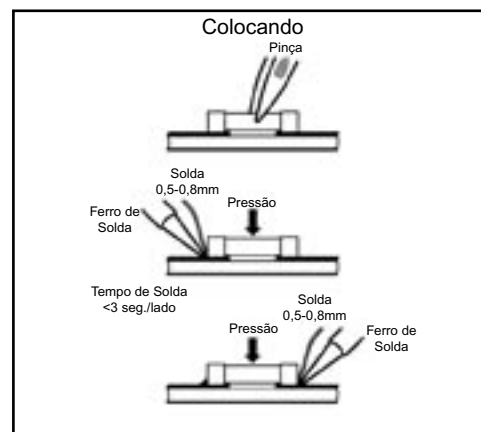
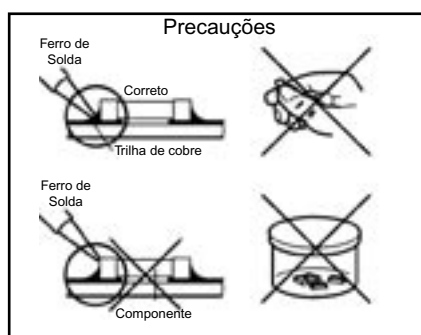
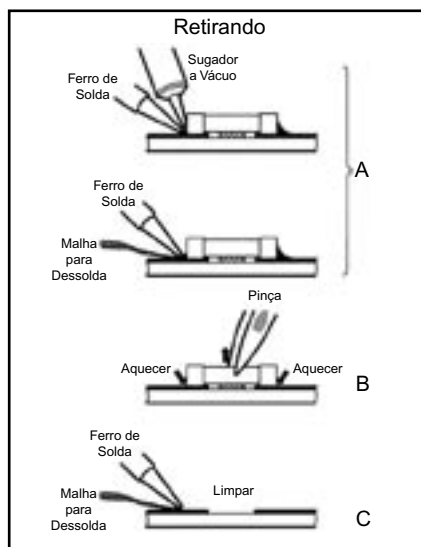
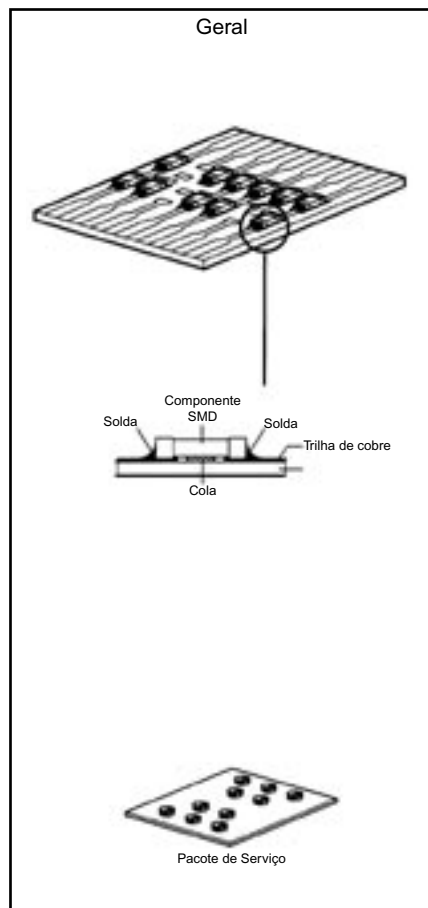


Gravador

Use um Cassete Universal de Teste **CrO2**
ou um Cassete Universal de Teste **Fe**



MANUSEANDO COMPONENTES SMD



Atenção!

Normas de segurança requerem que todos os ajustes sejam realizados para as condições normais e todos os componentes de reposição devem atender as especificações.

Advertência!

Todos os CI's e vários outros semicondutores são suscetíveis à descargas eletrostáticas (ESD).

A falta de cuidados no manuseio pode reduzir drasticamente a vida do componente.

Quando estiver reparando, certifique-se de estar conectado ao mesmo potencial de terra através de uma pulseira de aterramento com resistência.

Mantenha componentes e ferramentas também neste potencial.

Teste de risco de choque e incêndio

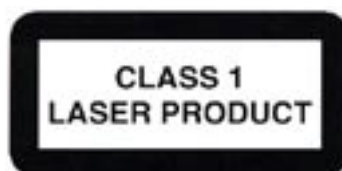
CUIDADO: Após reparar este aparelho e antes de devolvê-lo ao consumidor, meça a resistência entre cada pino do cabo de força (desconectado da tomada e com a chave Power ligada) e a face do painel frontal, botões de controle e a base do chassis.

Qualquer valor de resistência menor que 1 Megohms indica que o aparelho deve ser verificado /reparado antes de ser conectado à rede elétrica e verificado antes de retornar ao consumidor.



NOTA DE SEGURANÇA:

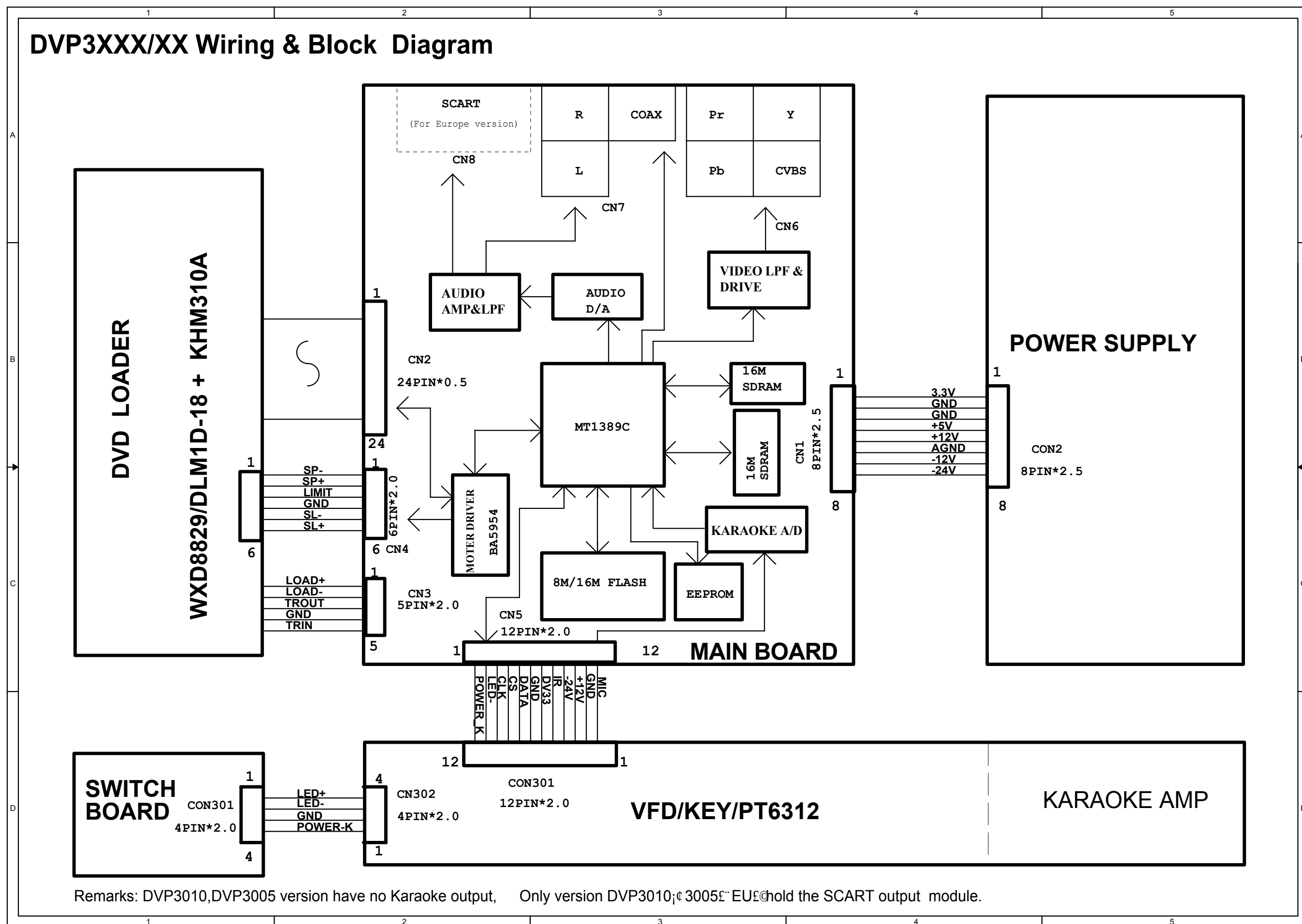
Risco de choque ou incêndio. Componentes marcados com o símbolo ao lado devem ser substituídos apenas por originais. A utilização de componentes não originais pode acarretar risco de incêndio ou choque elétrico.



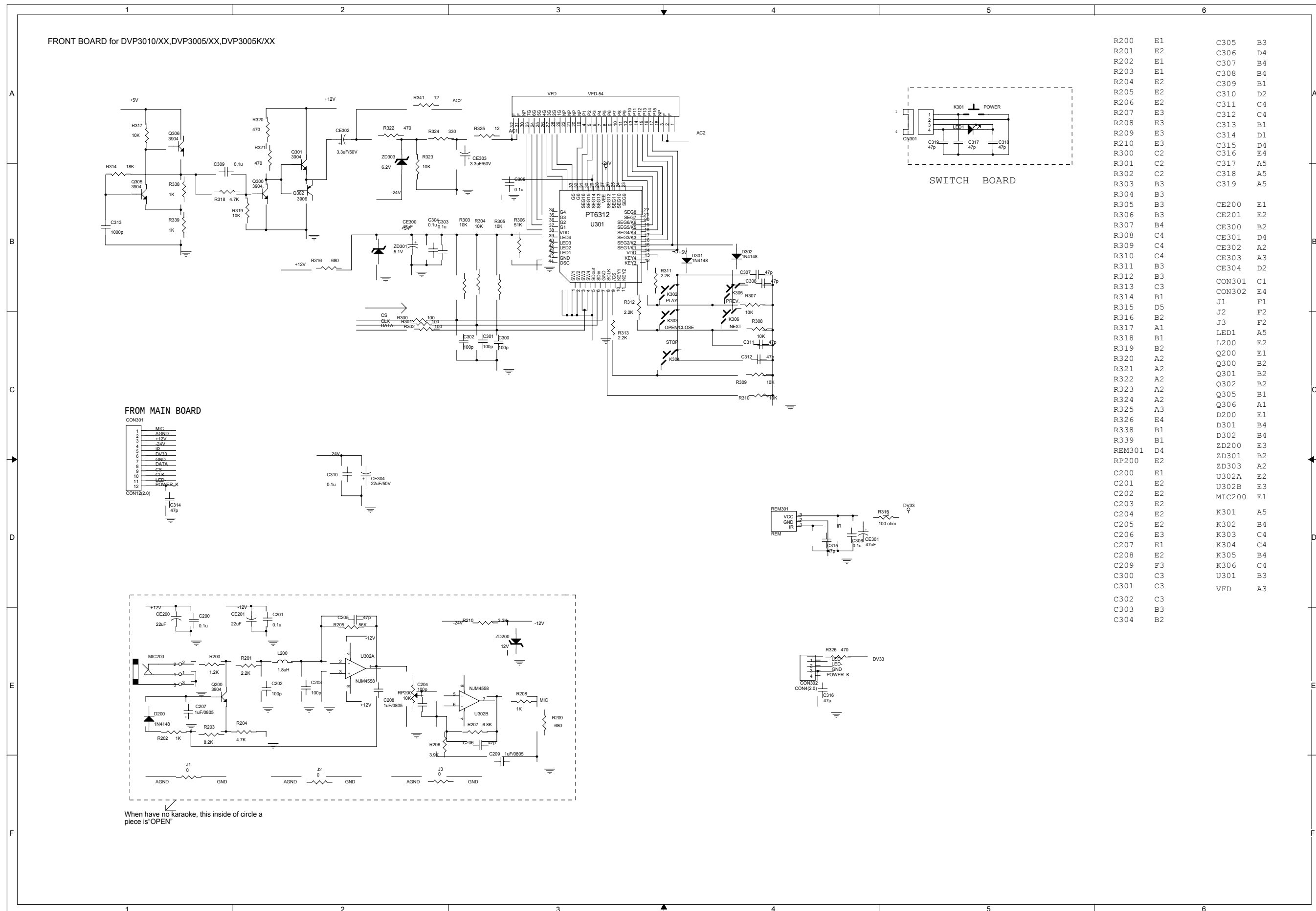
INSTRUÇÕES DE USO

Veja Manual de Usuário no GIP.

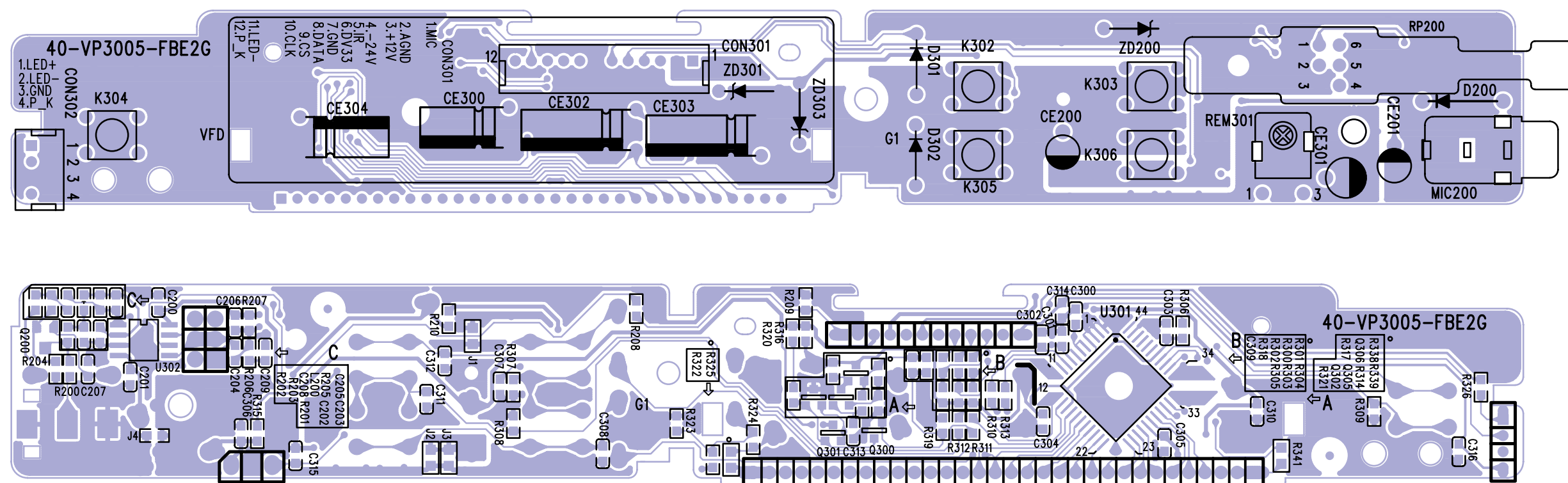
DIAGRAMA EM BLOCOS & CONEXÕES



PAINEL FRONTAL



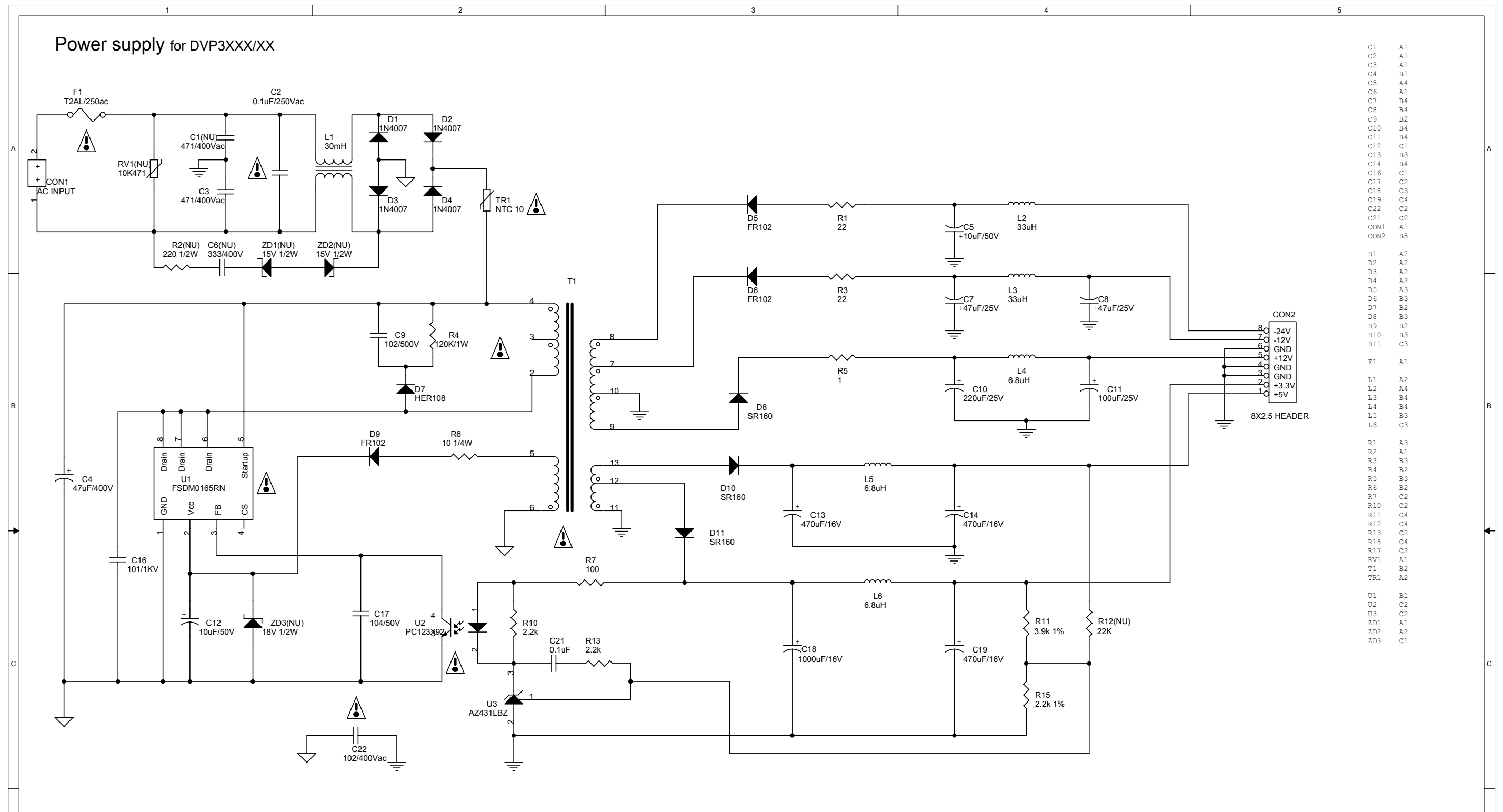
LAYOUT PAINEL FRONTAL SUPERIOR/INFERIOR



LAYOUT PAINEL CHAVE SUPERIOR/INFERIOR

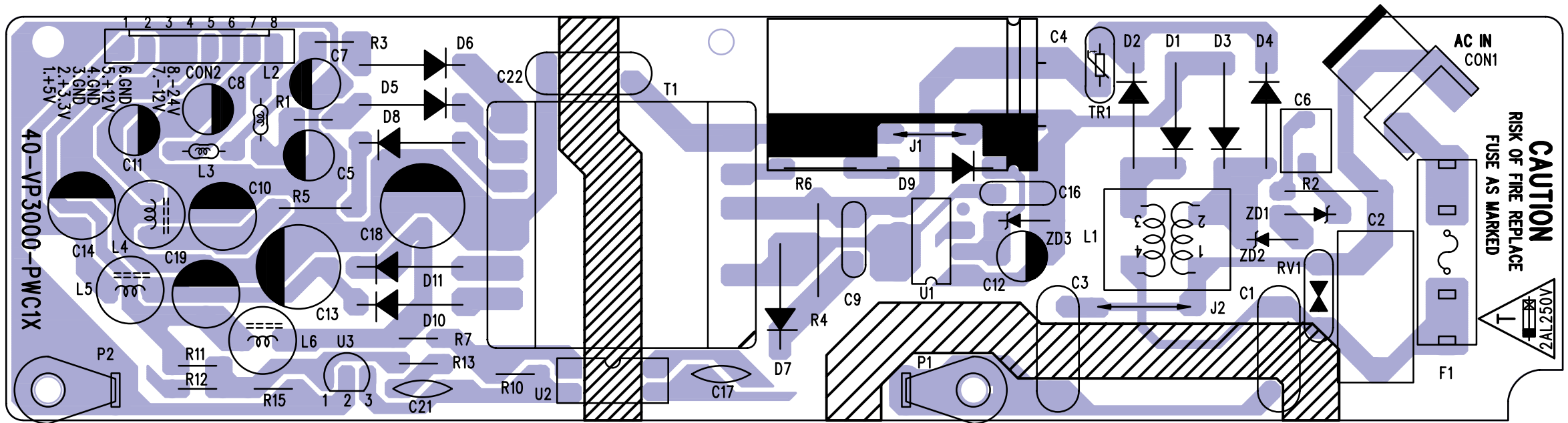


PAINEL FONTE DE ALIMENTAÇÃO



*** CAUTION :**
ATENÇÃO:
 THE PARTS MARKED WITH ARE IMPORTANT PARTS ON THE SAFETY.
 As partes marcadas com  são partes importantes de segurança.
 Use por favor as peças que têm o número de peças designado sem falha

LAYOUT PAINEL POWER SUPERIOR



PAINEL INDEX & POWER

1, INDEX & POWER

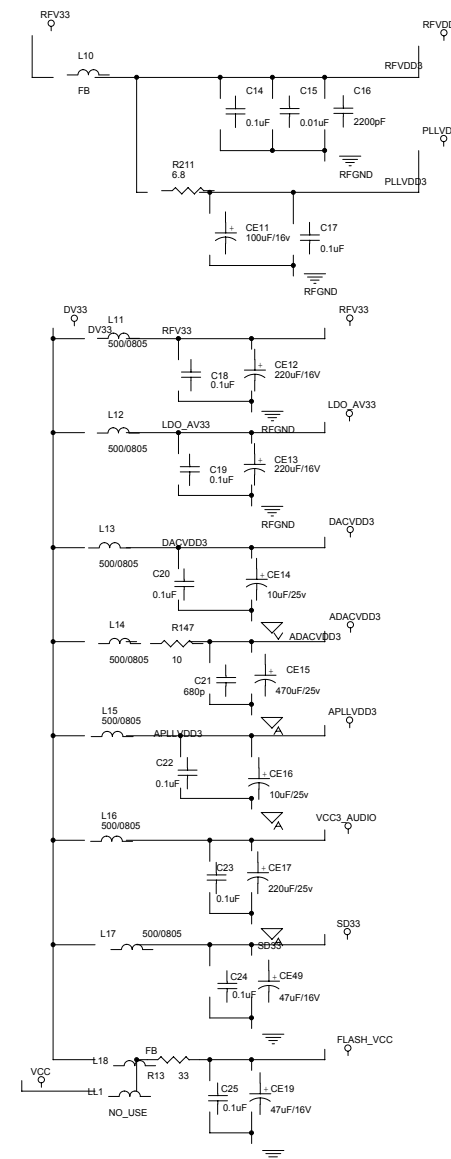
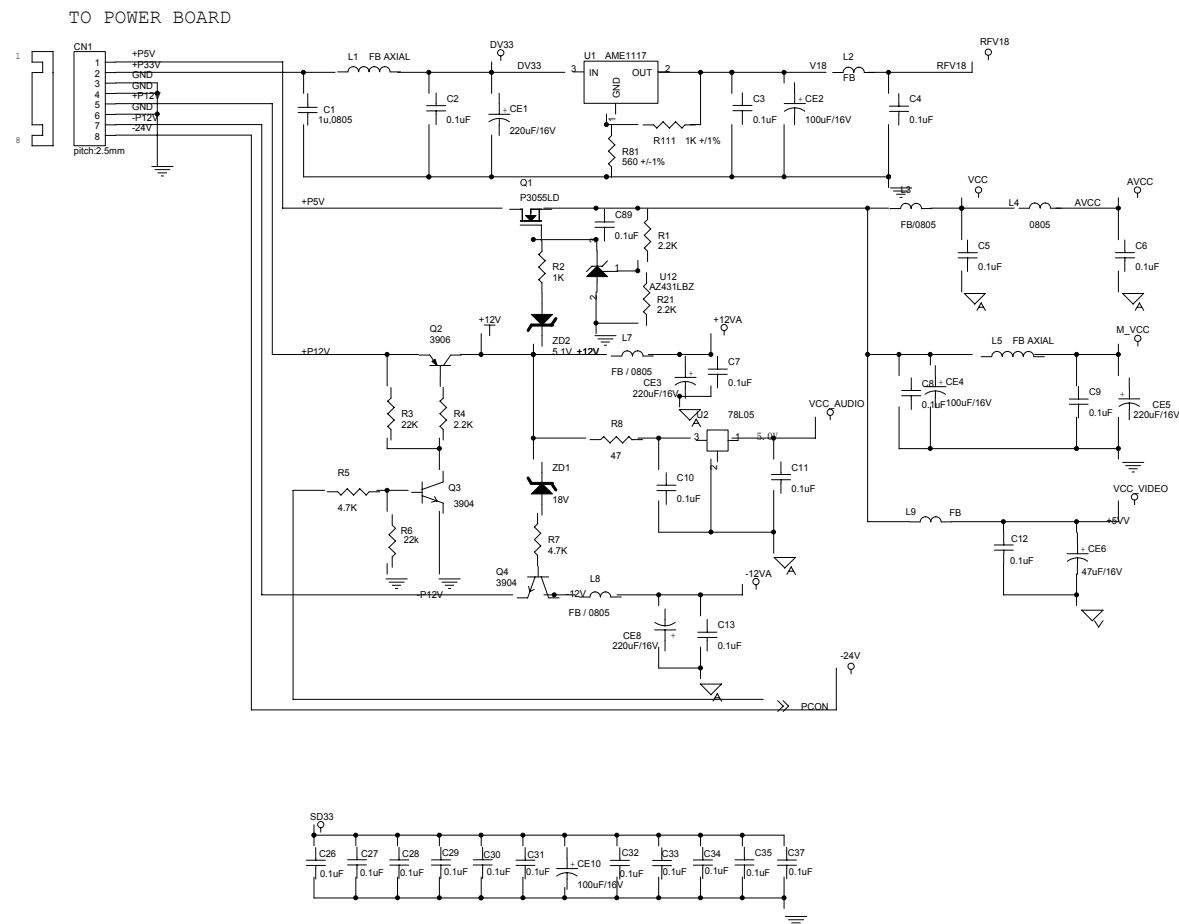
for DVP3000K/XX,DVP3005/XX,DVP3005K/XX

- ```

1 INDEX & POWER
2 RF, SERVO & MPEG - MT1389D
3 MEMORY /VIDEO OUT
4 AUDIO OUT

```

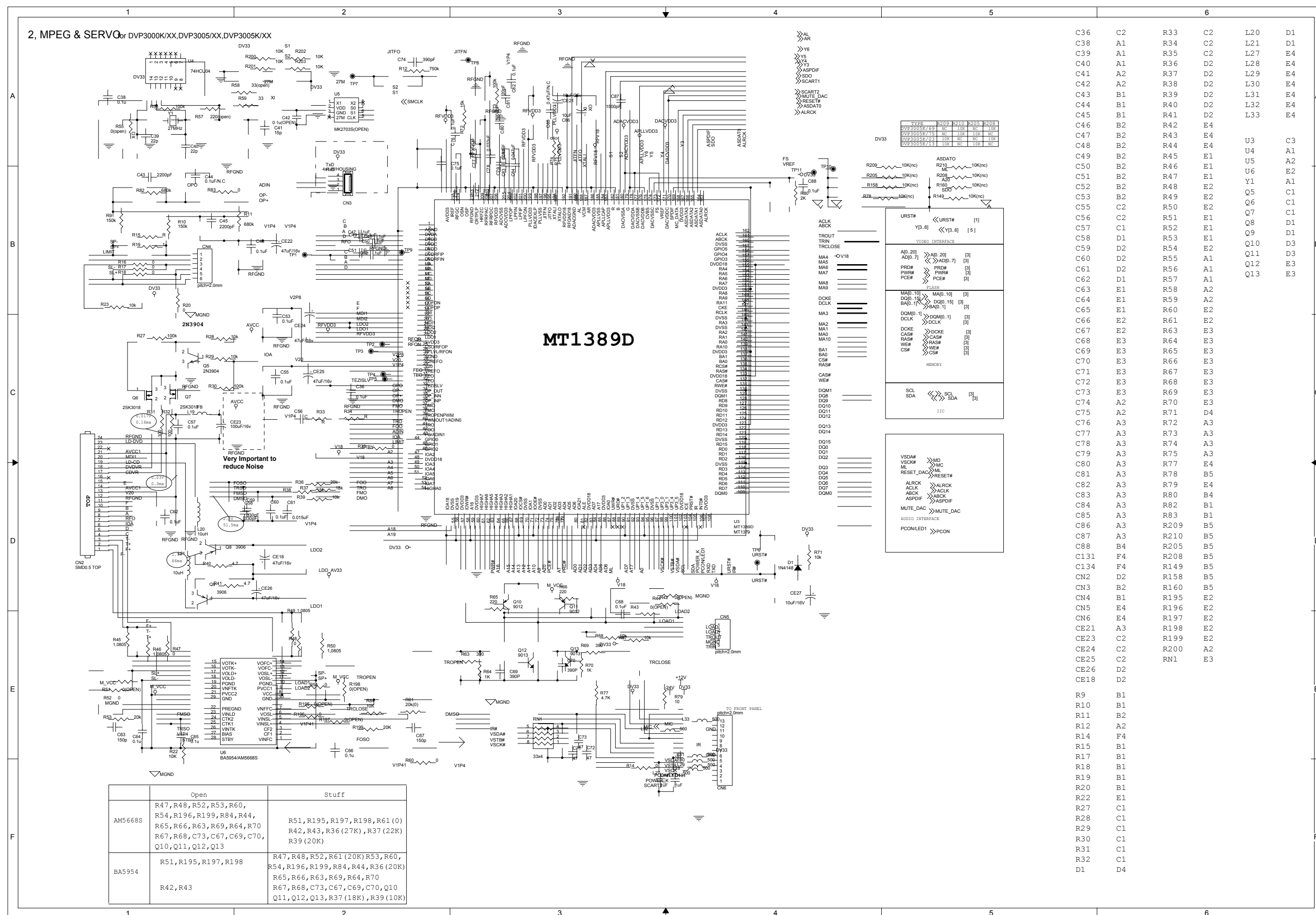
| NAME     | TYPE             | DEVICE        |
|----------|------------------|---------------|
| VCC      | Digital 5V       | SUPPLY        |
| DV33     | Digital 3.3V     | MT1389D       |
| RFV33    | Servo 3.3V       | MT1389D       |
| LDO_AV33 | Laser Diode 3.3V |               |
| AVCC     | RF 5V            | PICKUP HEADER |
| V18      | Digital 1.8V     | MT1389D       |
| SD33     | Digital 3.3V     | SDRAM         |
| +12V     | Audio +12V       | OP AMP.       |
| -12V     | Audio -12V       | OP AMP.       |
| AVDD     | Audio 5V         | VCC_AUDIO     |
| DVDD     | Audio 3V3        | VCC3_AUDIO    |



|     |    |      |    |
|-----|----|------|----|
| C1  | C2 | CE1  | C2 |
| C2  | C2 | CE2  | C3 |
| C3  | C3 | CE3  | D2 |
| C4  | C3 | CE4  | D3 |
| C5  | D3 | CE5  | D3 |
| C6  | D4 | CE6  | E3 |
| C7  | D3 | CE8  | E2 |
| C8  | D3 | CE10 | F2 |
| C9  | D3 | CE11 | C4 |
| C10 | D3 | CE12 | C5 |
| C11 | D3 | CE13 | C5 |
| C12 | E3 | CE14 | D5 |
| C13 | E3 | CE15 | D5 |
| C14 | B4 | CE16 | D5 |
| C15 | B5 | CE17 | E5 |
| C16 | B5 | CE49 | E5 |
| C17 | B5 | CN1  | C1 |
| C18 | C4 |      |    |
| C19 | E5 | R1   | D2 |
| C19 | C4 | R2   | D2 |
| C20 | D4 | R3   | D2 |
| C21 | D4 | R4   | D2 |
| C21 | D5 | R5   | D2 |
| C22 | D4 | R6   | E2 |
| C23 | D5 | R7   | E2 |
| C24 | E5 | R8   | D2 |
| C25 | E5 | R13  | E4 |
| C26 | F2 | R21  | D2 |
| C27 | F2 | R81  | C2 |
| C28 | F2 | R111 |    |
| C29 | F2 | R147 | D4 |
| C30 | F2 | R211 | B4 |
| C31 | F2 | Q1   | C2 |
| C32 | F2 | Q2   | D2 |
| C33 | F2 | Q3   | D2 |
| C34 | F2 | Q4   | E2 |
| C35 | F3 | U1   | C2 |
| C37 | F3 | U2   | D3 |
| C89 | D2 | U12  | D2 |
| L1  | C2 |      |    |
| L2  | C3 | ZD1  | D2 |
| L3  | D3 | ZD2  | D2 |
| L4  | D3 |      |    |
| L5  | D3 |      |    |
| L7  | D2 |      |    |
| L8  | E2 |      |    |
| L9  | E3 |      |    |
| L10 | B4 |      |    |
| L11 | C4 |      |    |
| L12 | C4 |      |    |
| L13 | C4 |      |    |
| L14 | D4 |      |    |
| L15 | D4 |      |    |
| L16 | D4 |      |    |
| L17 | E4 |      |    |
| L18 | E4 |      |    |

## PAINEL MPEG &amp; SERVO (DVD3005) 8-3

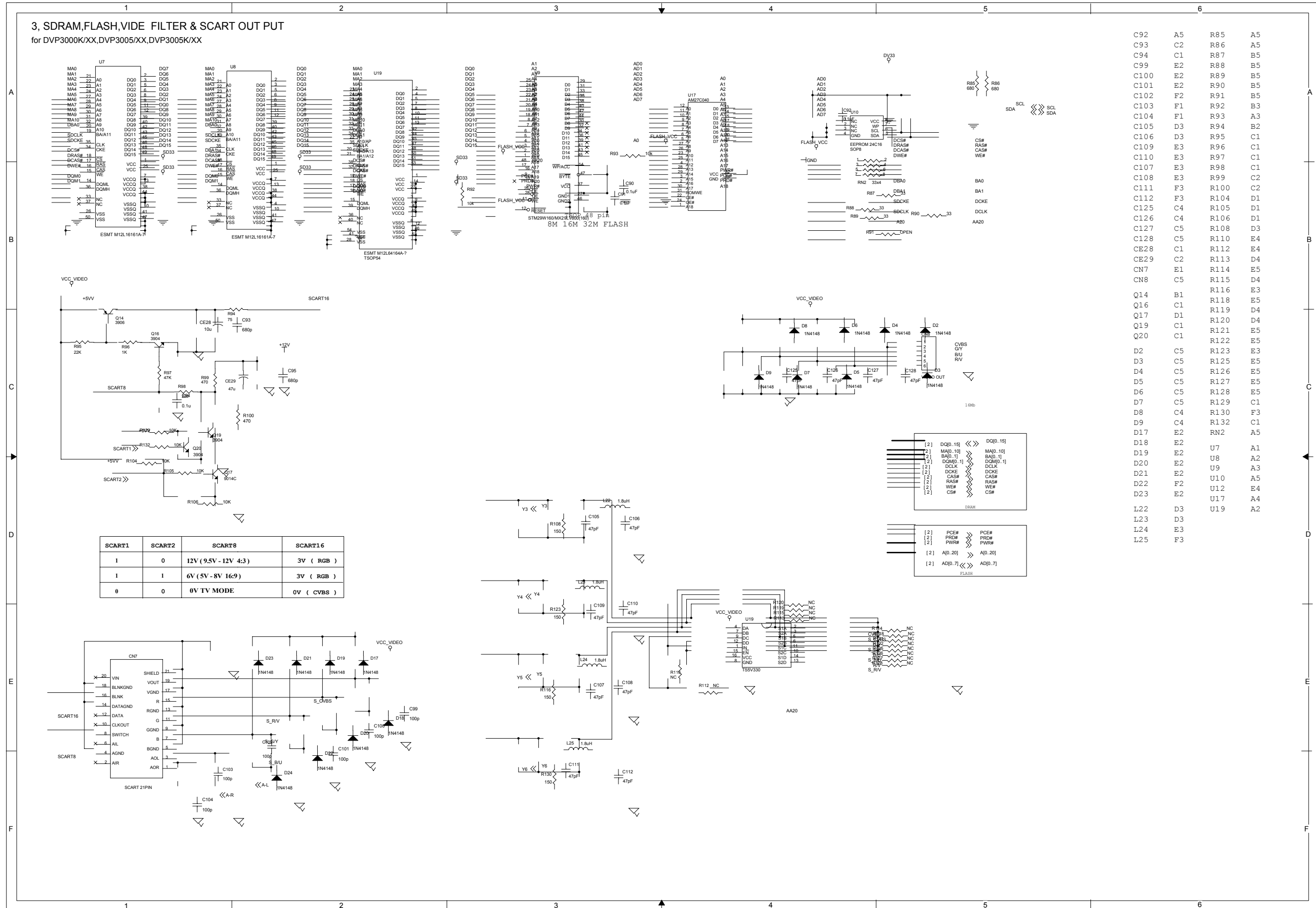
8-3

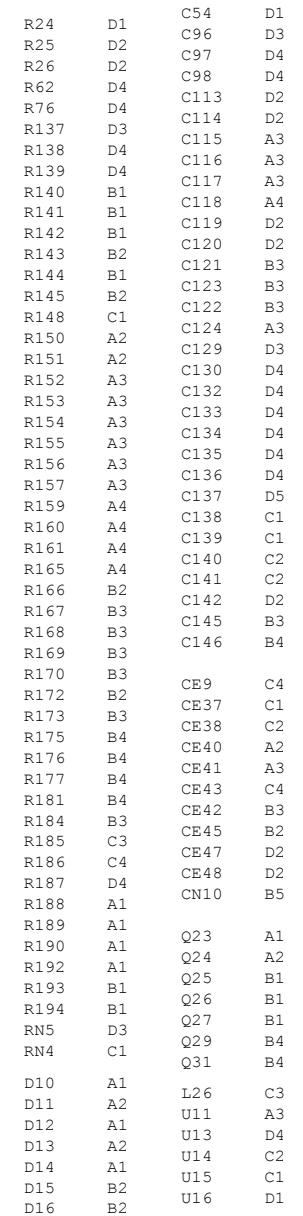


### PAINEL SDRAM, FLASH, FILTRO DE VÍDEO & SAÍDA SCART

8-4

8-4





**INDEX & POWER, RESET**  
For DVP3010/XX

|   |                                         |
|---|-----------------------------------------|
| 1 | INDEX & POWER, RESET                    |
| 2 | RF, SERVO & MPEG - MT1389C&MT1389EE     |
| 3 | MEMORY - SDRAM, FLASH/EEPROM, VIDEO OUT |
| 4 | AUDIO DAC & AUDIO OUT                   |
| 5 | FRONT BOARD                             |
| 6 | POWER SUPPLY                            |

| NAME  | TYPE         | DEVICE        |
|-------|--------------|---------------|
| VCC   | Digital 5V   | SUPPLY        |
| DV33  | Digital 3.3V | MT1389E       |
| RFV33 | Servo 3.3V   | MT1389E       |
| AVCC  | RF 5V        | PICKUP HEADER |
| V18   | Digital 1.8V | MT1389E       |
| +12V  | Audio +12V   | OP AMP.       |
| -12V  | Audio -12V   | OP AMP.       |
| +5V   | Servo 5V     | Motor drive   |
| -24V  | VFD          | VFD Drive     |

**TO POWER BOARD**

CN1

CON8 2.5mm

+P5V  
+P3V  
+P12V  
-P12V  
-24V

C152 1uF

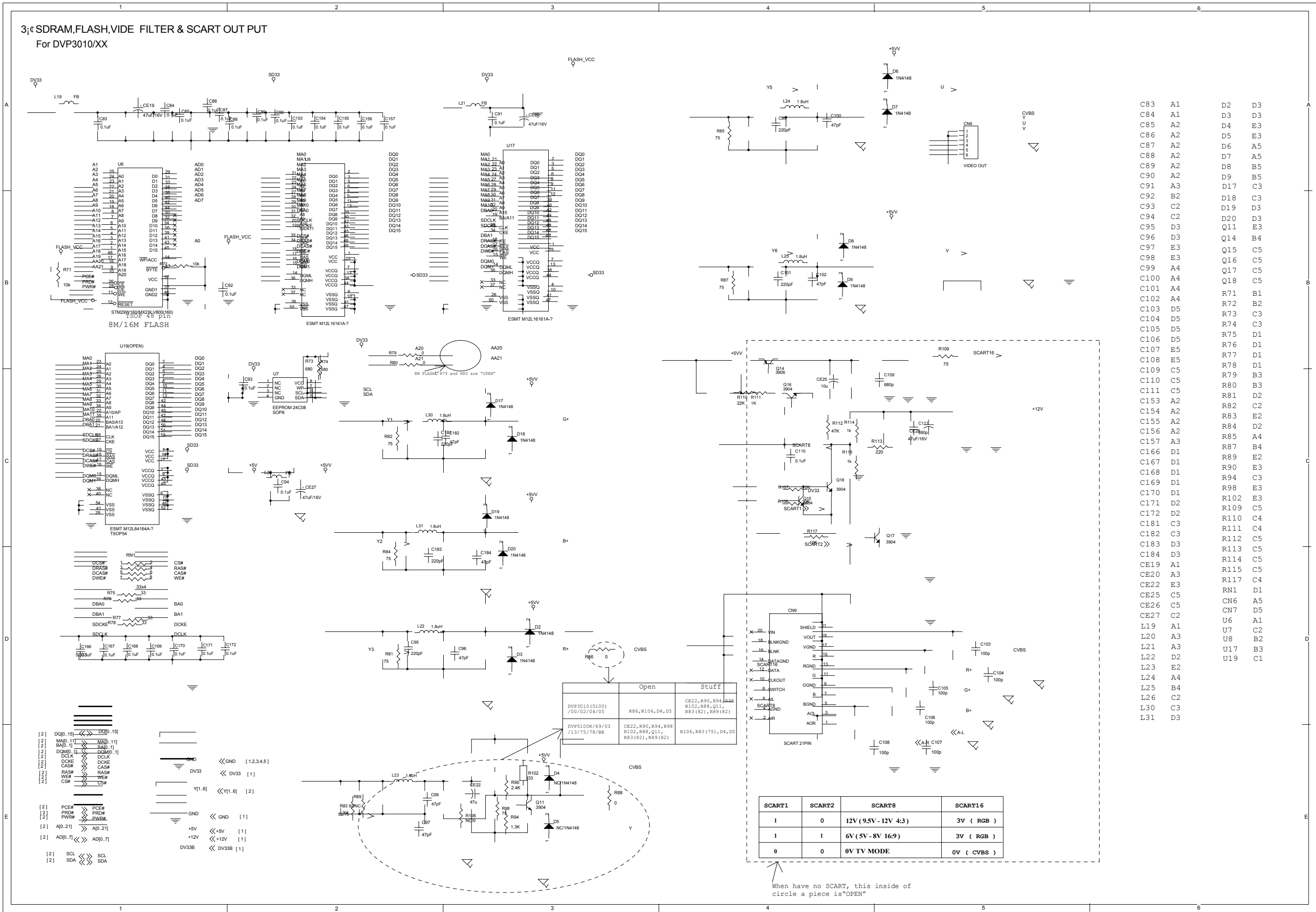
**Legend:**

- URST# >> URST# [2]
- V18 >> V18 [2]
- DV33 >> DV33 [2,3,4,5]
- AVCC >> AVCC
- RFV33 >> RFV33
- LDO\_AV33 >> LDO\_AV33
- +12V >> +12V [4,5]
- 12V >> -12V [4,5]
- GND >> GND [2,3,4,5]
- 24V >> -24V
- LED1/PCON >> LED1/PCON
- MO\_VCC >> MO\_VCC
- +5V >> +5V

|      |    |
|------|----|
| CN1  | D1 |
| R1   | E5 |
| R167 | C3 |
| R168 | C3 |
| R169 | D3 |
| R214 | D3 |
| R215 | D3 |
| R216 | D3 |
| R217 | E3 |
| R218 | E3 |
| R219 | E2 |
| R220 | E3 |
| R221 | E3 |
| ZD2  | E3 |
| ZD3  | E3 |
| D1   | E5 |
| C1   | C3 |
| C2   | C4 |
| C3   | E1 |
| C5   | D5 |
| C6   | D2 |
| C152 | C5 |
| C173 | D3 |
| CE1  | C3 |
| CE2  | C4 |
| CE3  | E1 |
| CE5  | C5 |
| CE6  | D5 |
| CE7  | E5 |
| L1   | C3 |
| L2   | E1 |
| L3   | E1 |
| L4   | C5 |
| L5   | D5 |
| Q32  | D3 |
| Q33  | E3 |
| Q34  | E3 |
| Q35  | F3 |
| U1   | C3 |
| U20  | D3 |



PAINEL SDRAM, FLASH, FILTRO DE VÍDEO & SAÍDA SCART (DVD3010)



## PAINEL FILTRO DE ÁUDIO &amp; SAÍDA (DVD3010)

8-9

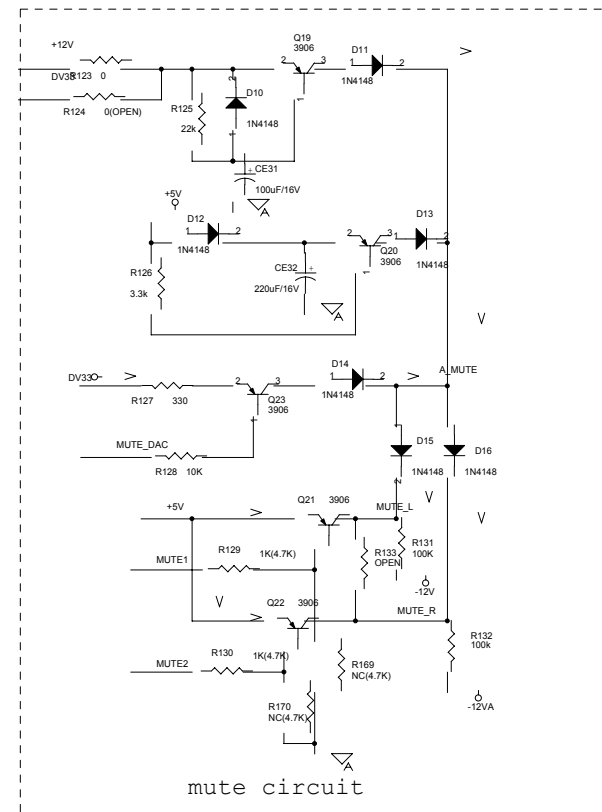
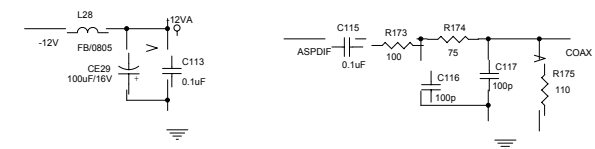
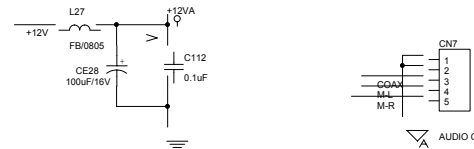
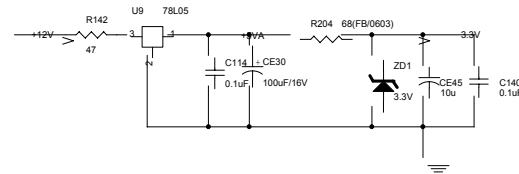
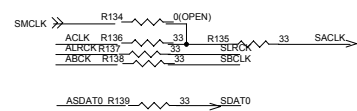
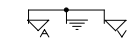
4i AUDIO FILTER & OUT PUT  
For DVP3010/XX

|     |      |    |      |
|-----|------|----|------|
| [2] | MD   | >> | MD   |
| [2] | ML   | >> | ML   |
| [2] | MC   | >> | MC   |
| [1] | -12V | >> | -12V |
| [1] | +12V | >> | +12V |
| [1] | DV33 | >> | DV33 |
| [1] | +5V  | >> | +5V  |

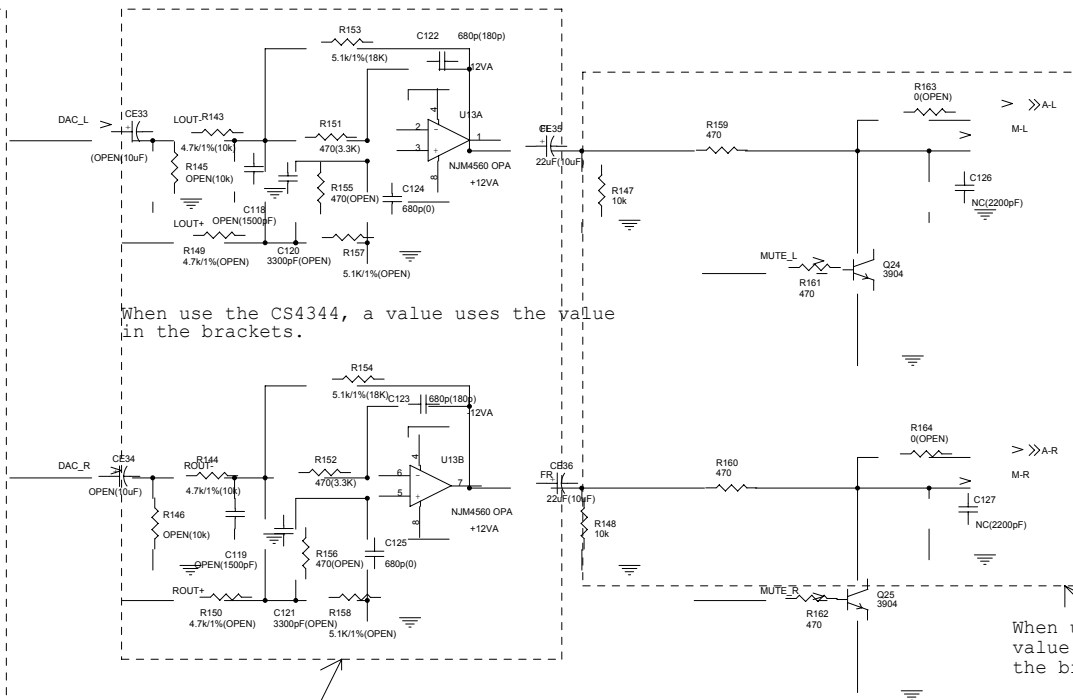
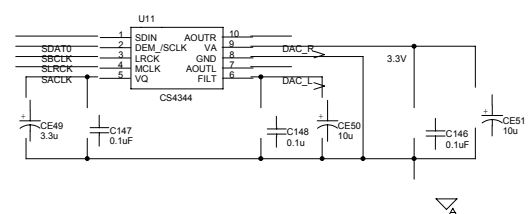
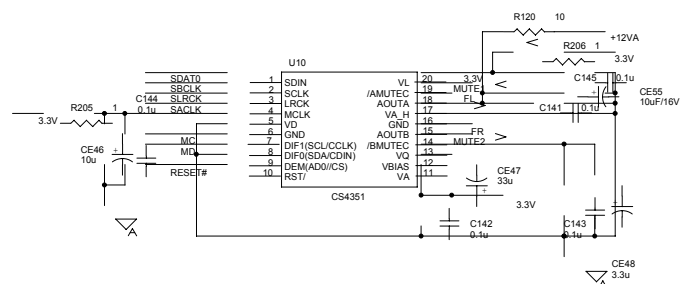
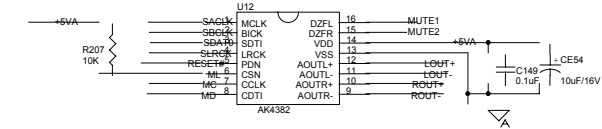
|           |     |    |     |
|-----------|-----|----|-----|
| [1,2,3,5] | GND | >> | GND |
|-----------|-----|----|-----|

|     |        |    |        |
|-----|--------|----|--------|
| [2] | ASDAT0 | >> | ASDAT0 |
| [2] | ASPDIF | >> | ASPDIF |
| [2] | ACLK   | >> | ACLK   |
| [2] | ABCK   | >> | ABCK   |
| [2] | ALRCK  | >> | ALRCK  |

|     |          |    |          |
|-----|----------|----|----------|
| [2] | MUTE_DAC | >> | MUTE_DAC |
| [2] | RESET#   | >> | RESET#   |
| [4] | A-L      | >> | A-L      |
| [4] | A-R      | >> | A-R      |



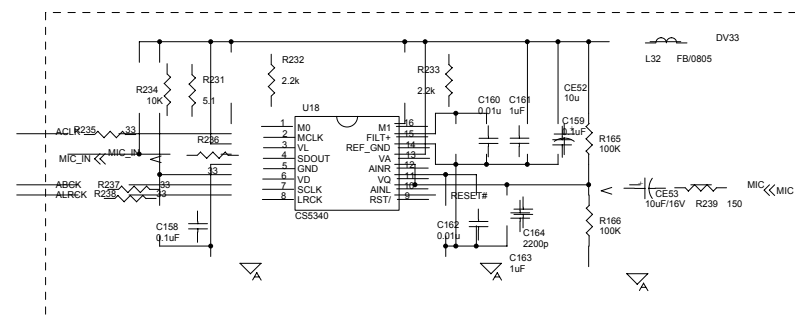
mute circuit



When use the CS4344, a value uses the value in the brackets.

When use the CS4351, this inside of circle a piece is "OPEN"

When use the CS4351, a value uses the value in the brackets.

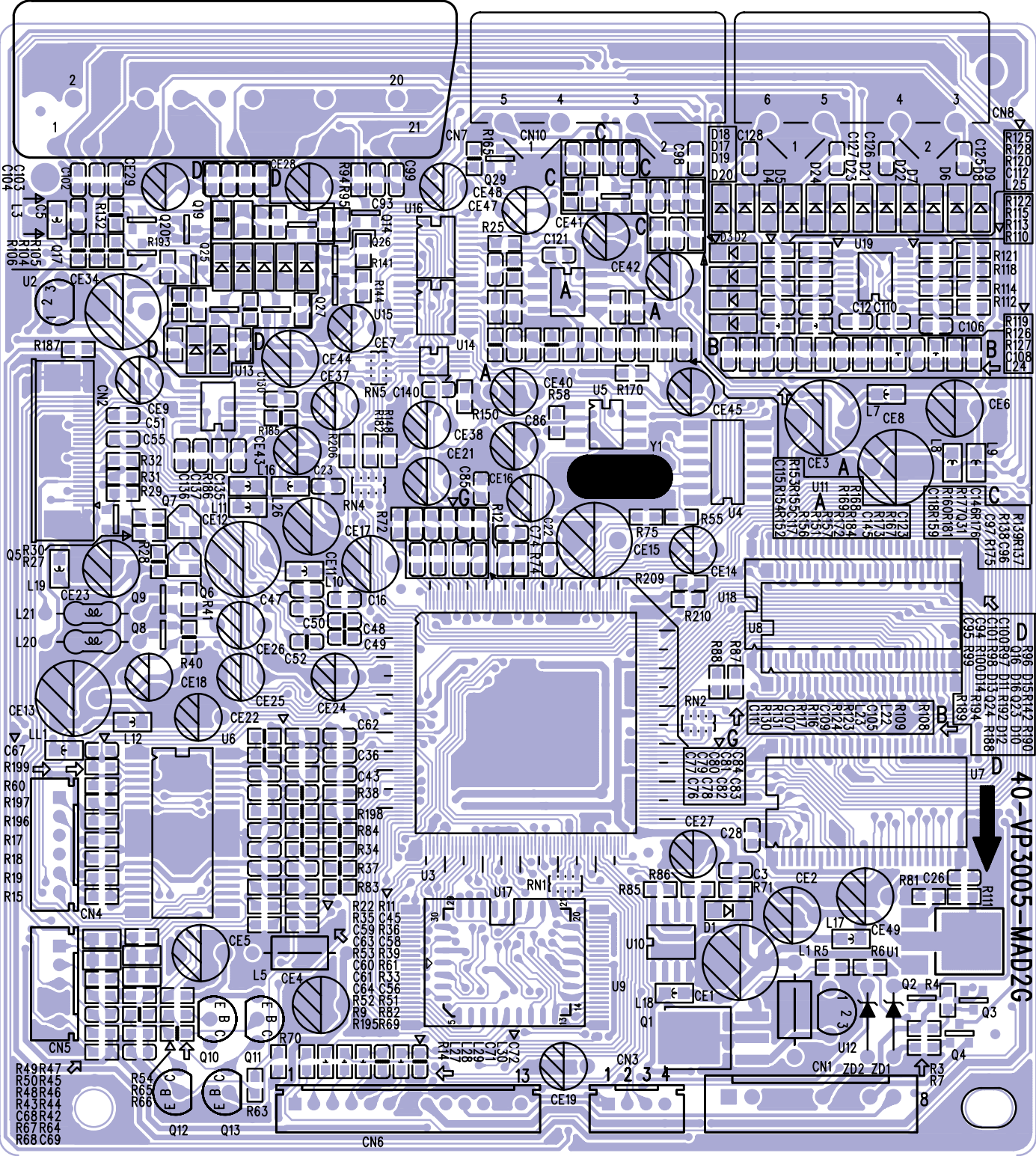


When have no karaoke, this inside of circle a piece is "OPEN"

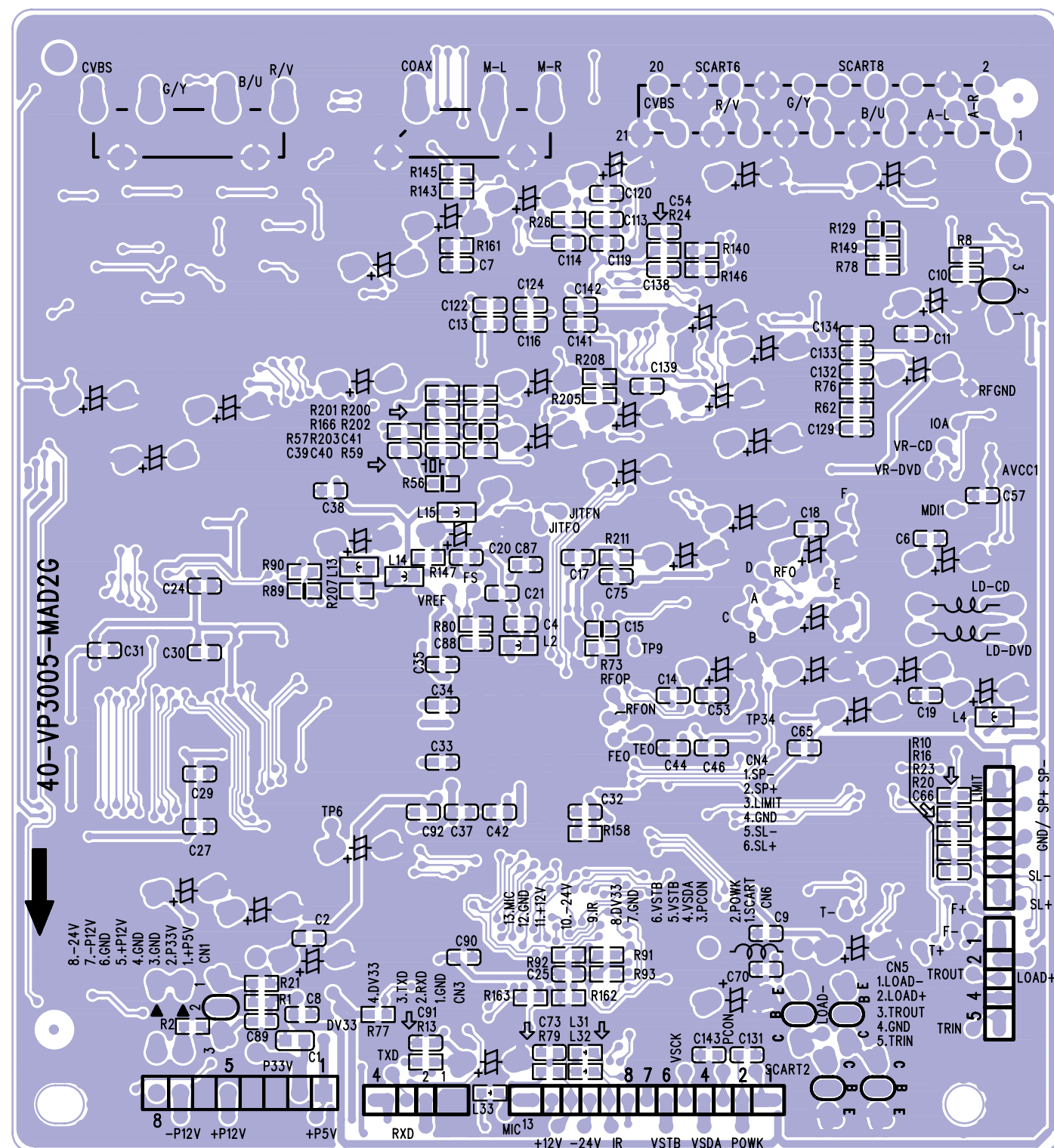
|      |    |      |    |      |    |
|------|----|------|----|------|----|
| R136 | C1 | C114 | D1 | CE49 | E2 |
| R137 | C1 | C115 | E1 | CE50 | E3 |
| R138 | C1 | C116 | E2 | CE51 | E3 |
| R139 | C1 | C117 | E2 | CE52 | C5 |
| R142 | C1 | C118 | A4 | CE53 | C5 |
| R143 | A4 | C119 | B4 | CE54 | C3 |
| R144 | B4 | C120 | A4 | CE55 | D3 |
| R145 | A4 | C121 | B4 | Q19  | A3 |
| R146 | B4 | C122 | A4 | Q20  | A3 |
| R147 | A5 | C123 | B4 | Q21  | B3 |
| R148 | B5 | C124 | A4 | Q22  | B3 |
| R149 | A4 | C125 | B4 | Q23  | B3 |
| R150 | B4 | C126 | A6 | Q24  | A5 |
| R151 | A4 | C127 | B6 | Q25  | B5 |
| R152 | B4 | C140 | D2 | D10  | A3 |
| R153 | A4 | C141 | D3 | D11  | A3 |
| R154 | B4 | C142 | D3 | D12  | A2 |
| R155 | A4 | C143 | D3 | D13  | A3 |
| R156 | B4 | C144 | D2 | D14  | B3 |
| R157 | A4 | C145 | D3 | D15  | B3 |
| R158 | B4 | C146 | E3 | D16  | B3 |
| R159 | A5 | C147 | E3 | U18  | C4 |
| R160 | B5 | C148 | E3 | U9   | C1 |
| R161 | A5 | C149 | C3 | U10  | D3 |
| R162 | B5 | C158 | D4 | U11  | E3 |
| R163 | A6 | C159 | C5 | U12  | C3 |
| R164 | B6 | C160 | C5 | U13  | A4 |
| R165 | C5 | C161 | C5 | CN7  | D2 |
| R166 | D5 | C162 | C5 |      |    |
| R169 | B3 | C163 | C5 |      |    |
| R170 | C3 | C164 | C5 |      |    |
| R173 | E1 | L27  | D1 |      |    |
| R174 | E2 | L28  | E1 |      |    |
| R175 | E2 | L30  | C1 |      |    |

|      |    |      |    |      |    |
|------|----|------|----|------|----|
| R120 | D3 | R205 | D2 | L31  | C1 |
| R123 | A2 | R206 | D3 | L32  | C5 |
| R124 | A2 | R207 | C2 | CE28 | D1 |
| R125 | A2 | R231 | C4 | CE29 | E1 |
| R126 | A2 | R232 | C4 | CE30 | C1 |
| R127 | B2 | R233 | C4 | CE31 | A3 |
| R128 | B2 | R234 | C4 | CE32 | A3 |
| R129 | B2 | R235 | C4 | CE33 | A4 |
| R130 | B2 | R236 | C4 | CE34 | B4 |
| R131 | B3 | R237 | C4 | CE35 | A5 |
| R132 | B3 | R238 | C4 | CE36 | B4 |
| R133 | B3 | R239 | C5 | CE46 | D2 |
| R134 | C1 | C112 | D1 | CE47 | D3 |
| R135 | C1 | C113 | E1 | CE48 | D3 |

PAINEL MPEG - LAYOUT VISTA SUPERIOR



### PAINEL MPEG - LAYOUT VISTA INFERIOR



VISTA EXPLODIDA

