



DVD Player

Service Manual

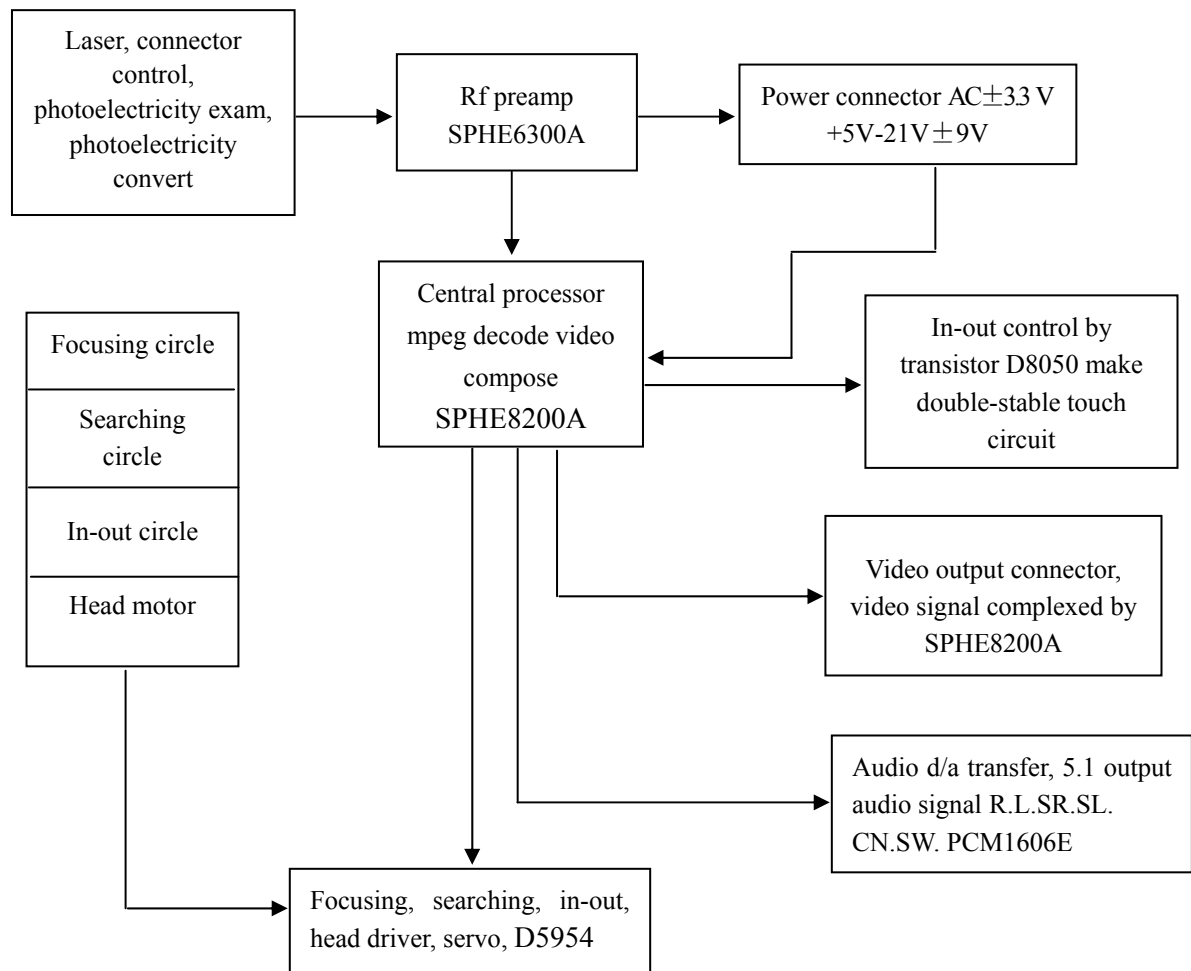
MODEL: DVD-2201

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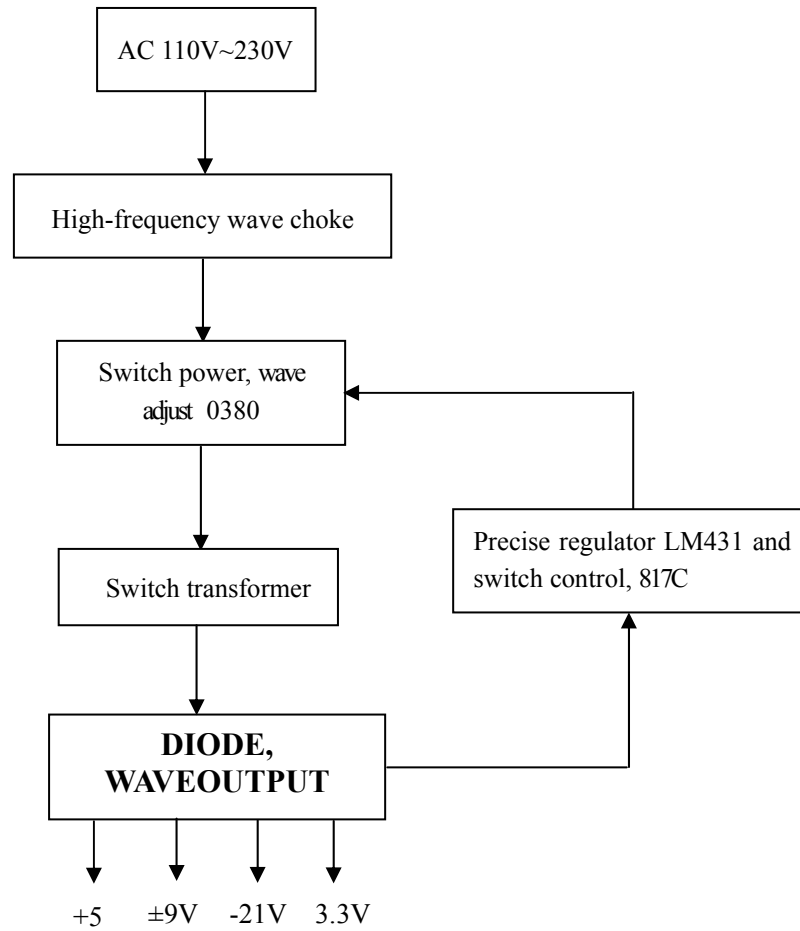
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BLOCK DIAGRAM

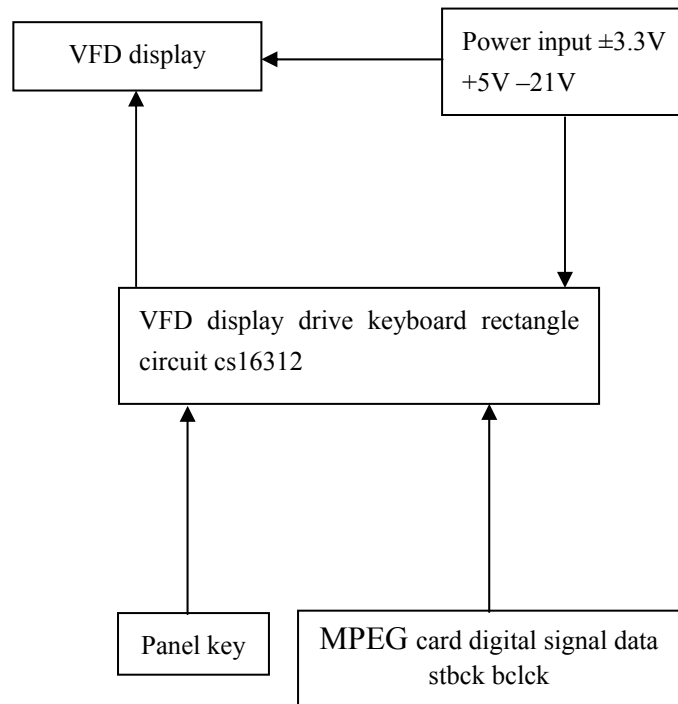
MPEG Card



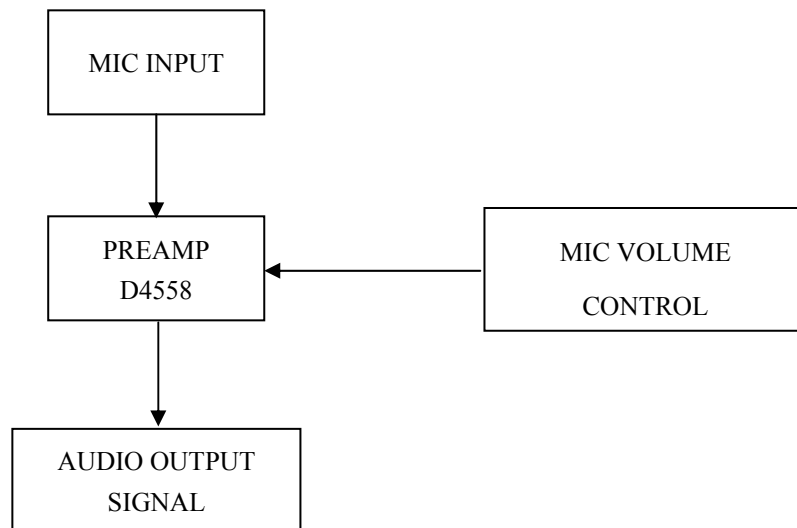
Power Supply



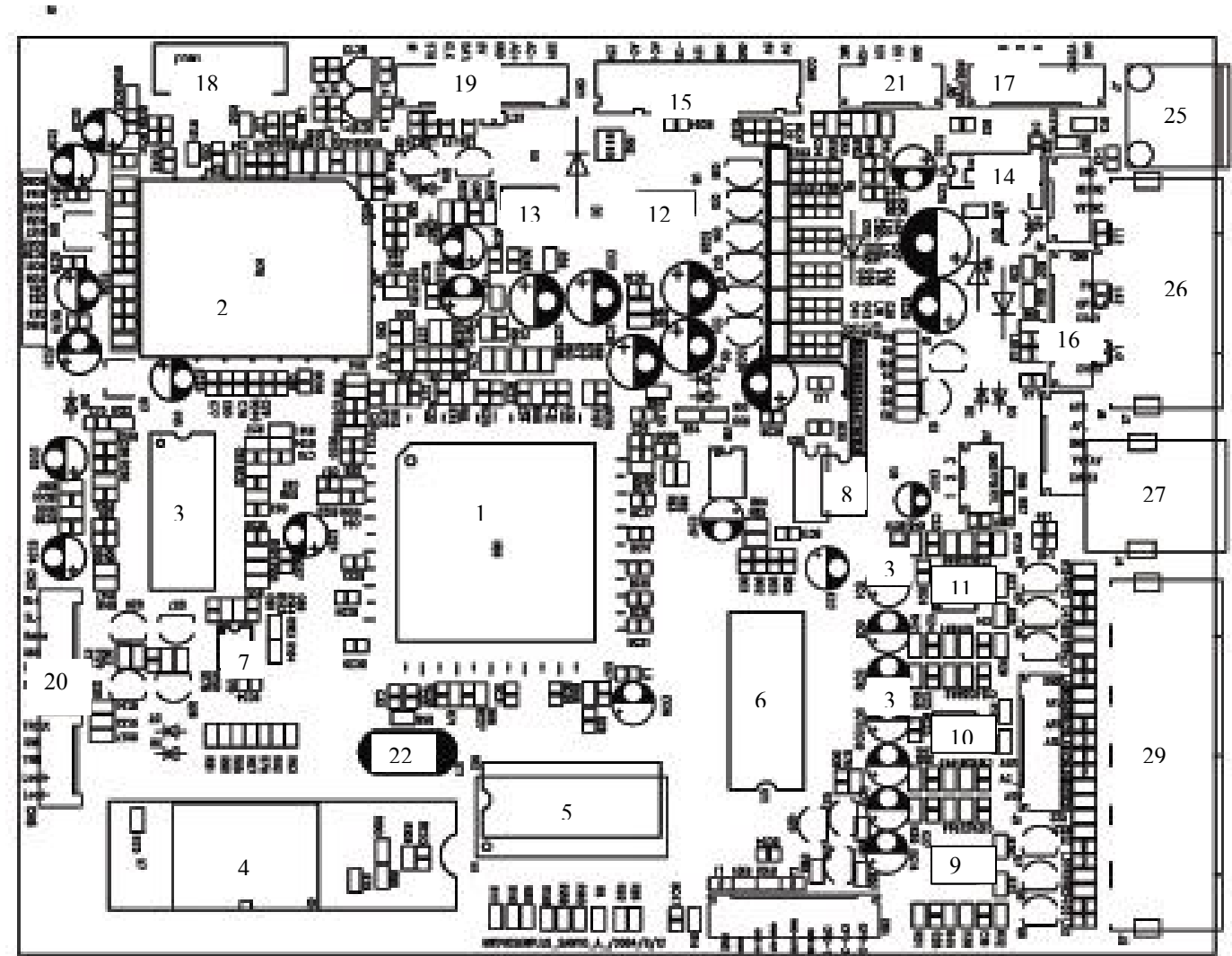
Panel Control



Karaoke



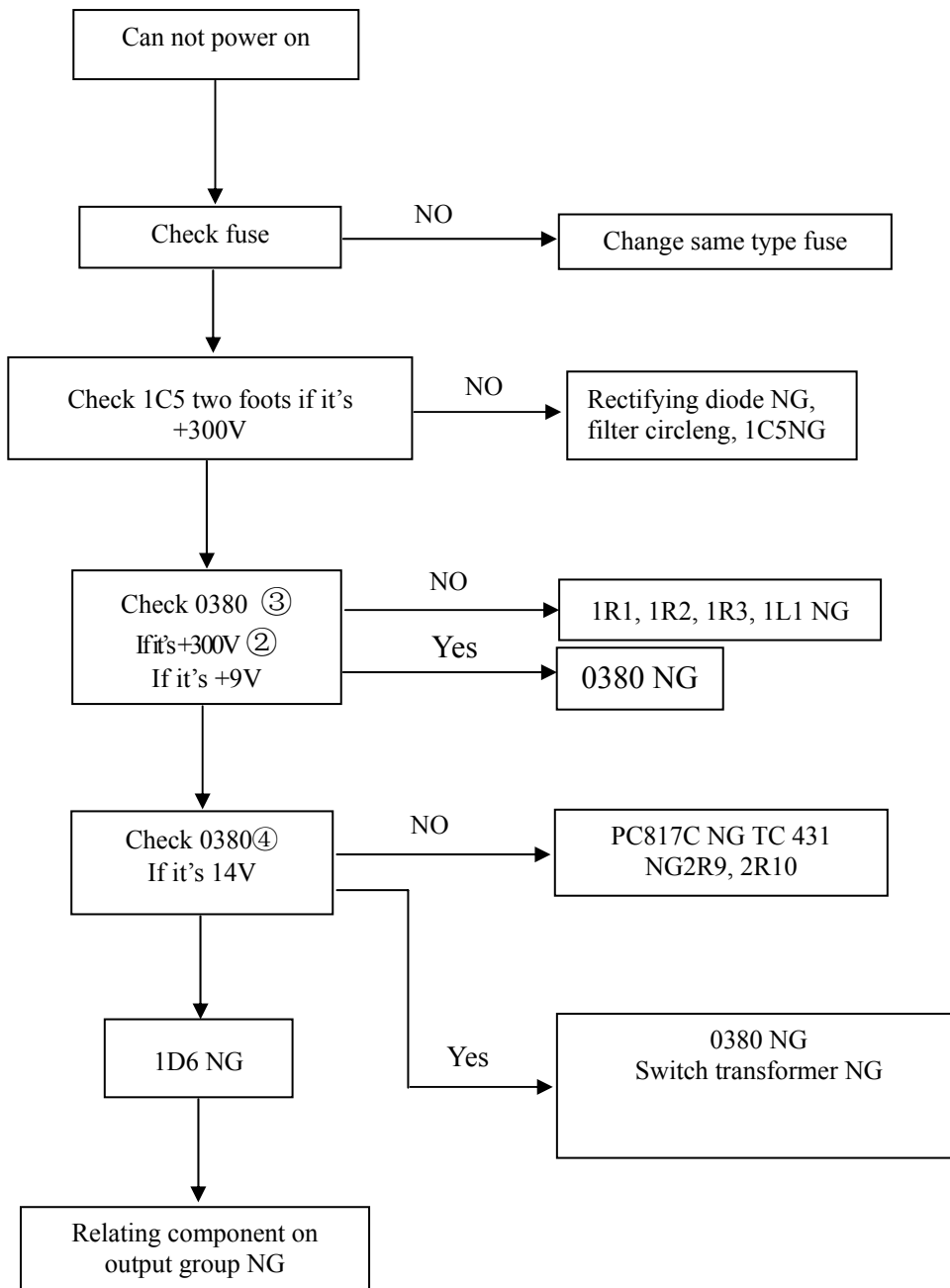
MPEG CARD IC MAIN FUNCTION, CONNECTION FUNCTION



1	SPHE8200A: Central processor, digital signal processing, MPEG-2 decoder, video synthesizer.
2	SPHE6300A: RF Signal processing, enlarge laser output signal.
3	D4954: Focusing. Searching, In-out, head driving.
4	STORAGE: Save DVD working procedure. (CPU)
5	Random storage
6	Random storage
7	CD-RW, save the content between people and DVD.
8	Audio D/A converter, make SPH8200A output audio data convert to simulative audio signal, output L.R. SL SR. CN. SW signal. PCM1606E.
9-11	D4558: Operation amplifier, enlarge audio signal from PCM1606E, radian up to 12V.
12	1.8V AC regulator IC, for SPH8200A ---- IC1117
13	3.3V AC regulator IC for SPH8200A ---- IC1117
14	74HC04D digital audio adjust.
15	MPEG card power supply connector is supplied by power board. +5V ±9V ±3.3V -21V
16-17	Scart connector, all kinds video, audio simulative signal, TV control signal.
18	24P connections, supply lens focusing, searching signal, receive the transfer signal from CD disk.
19	Supply 3 lines of digital signal to panel, different voltage which required by panel, receive remote control signal.
20	Supply In-Out, control voltage.
21	Karaoke connector, MIC 2.1 channel output, cut-singing control input.
22	27MHZ crystal, supply accurate time signal.
25	Optical output
26-27	Video output AV, S-Video, YUV RGB
29	Audio signal output, L.R. SL. SR. CN. SW

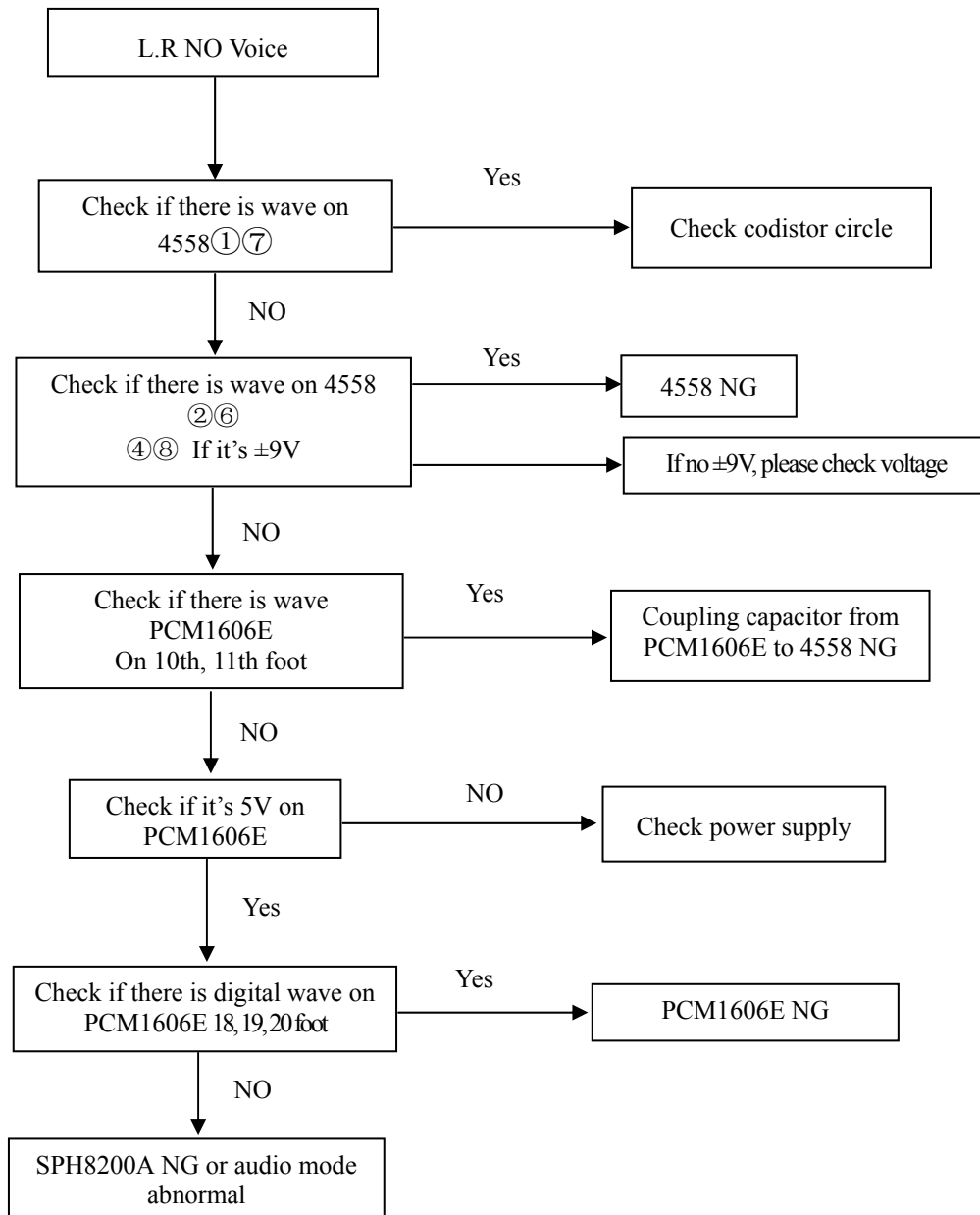
REPAIR PROCEDURE

Power supply



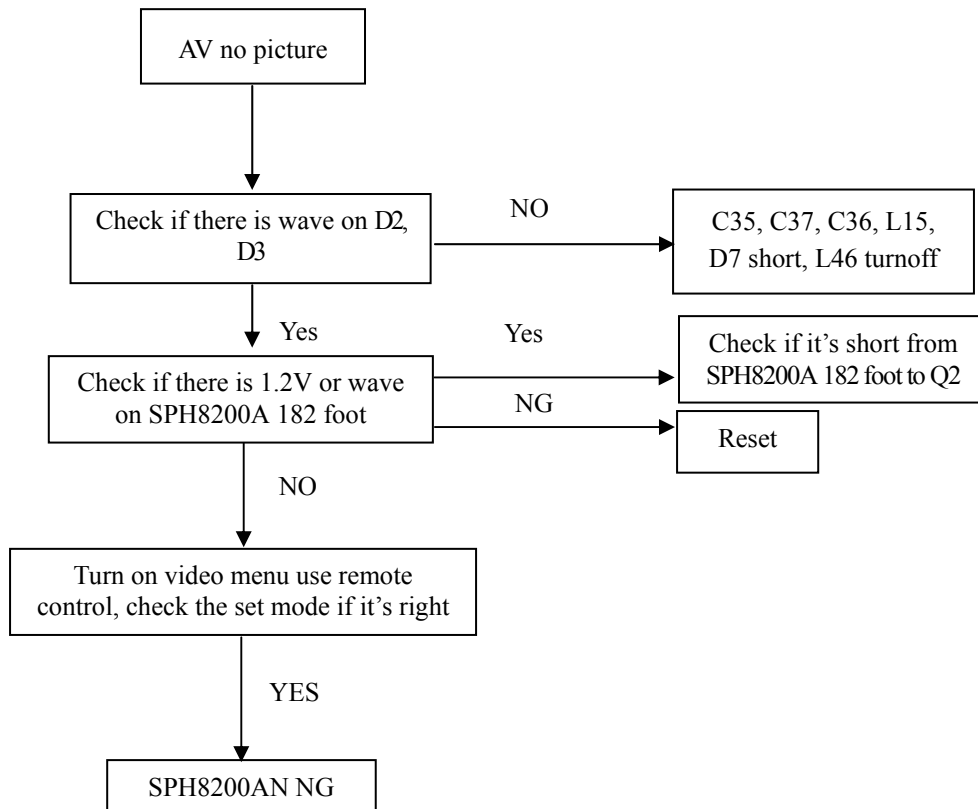
Audio part

Take l/r channel for example, SUR, CEN, SW are same, when you playing if SUR, CEN no voice, please check if there is signal on disk, or disk set to 5.1 CH, or related audio mode.



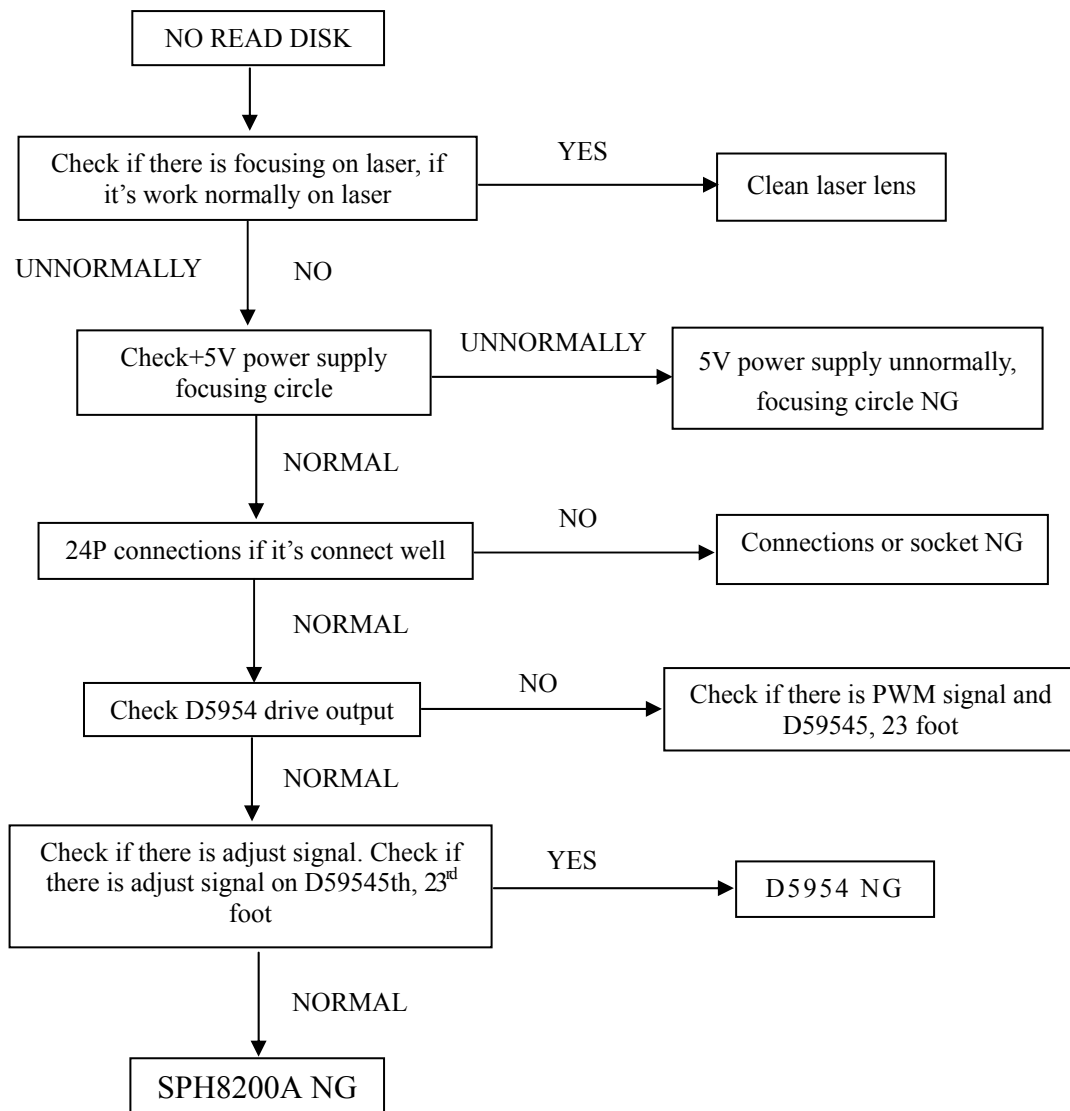
Video output

All video output are same, they just have different setting mode on the menu, please see below for AV signal, other like SVIDEO, YUV, RGB, VGA, SCART, the repair procedure is same.

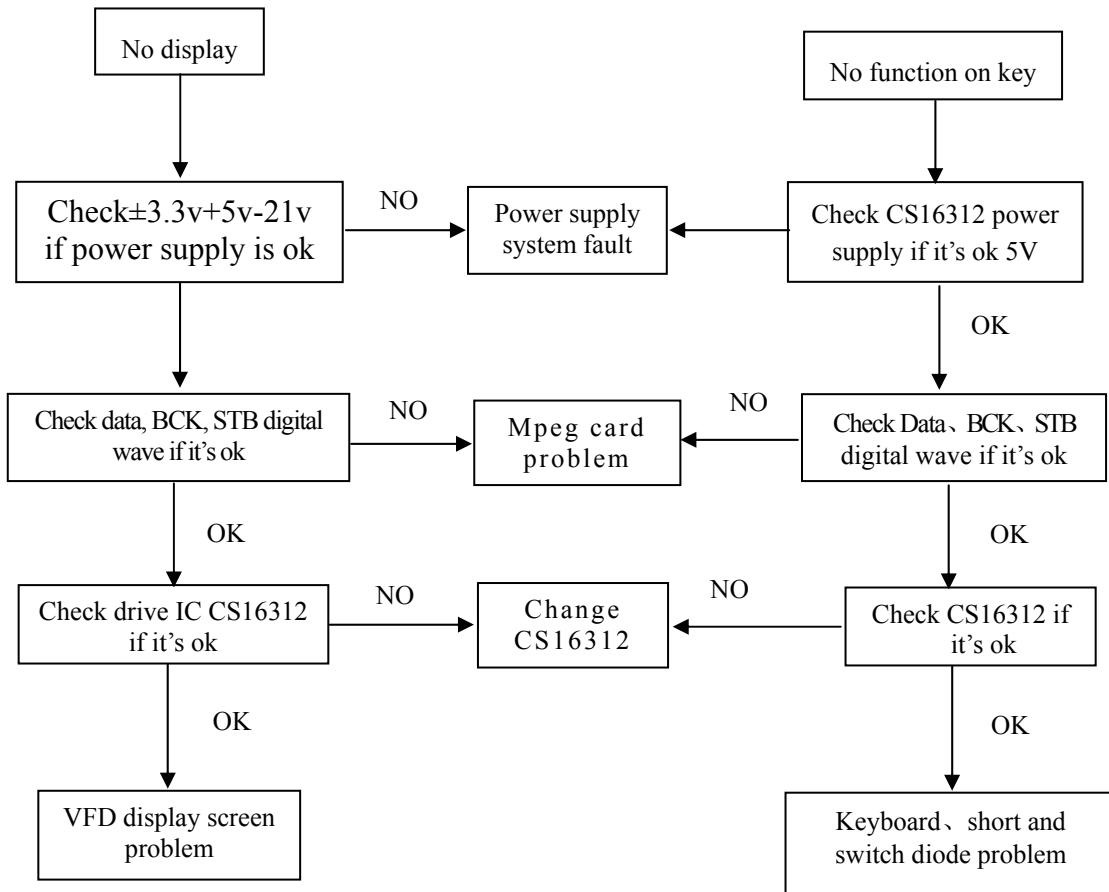


MPEG card servo

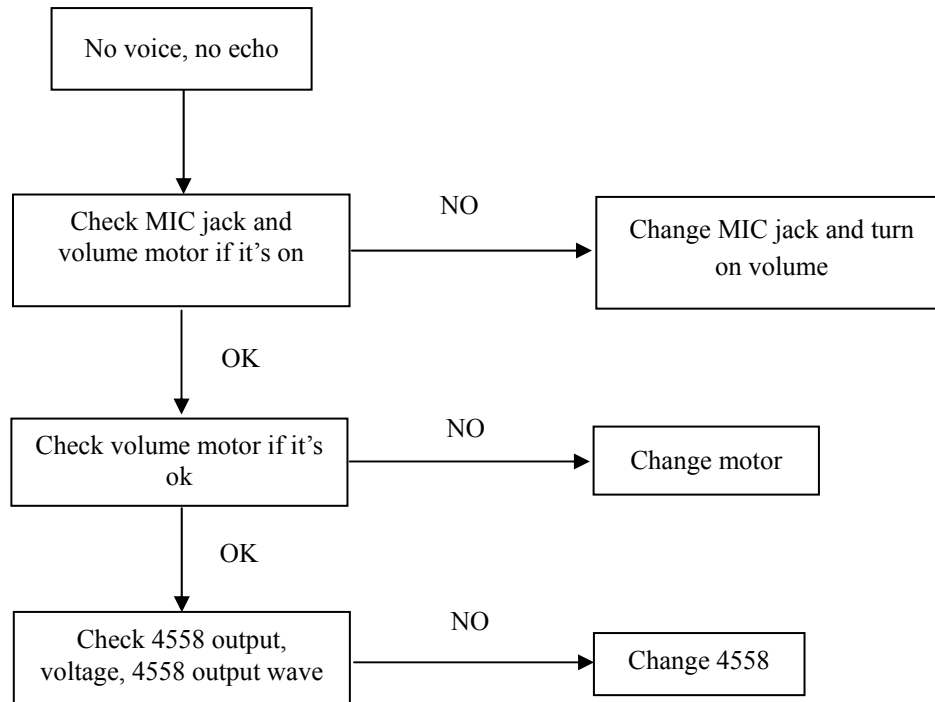
As there maybe more problems on servo, so we just show the idea on how to repair, through no read disk this phenomena.



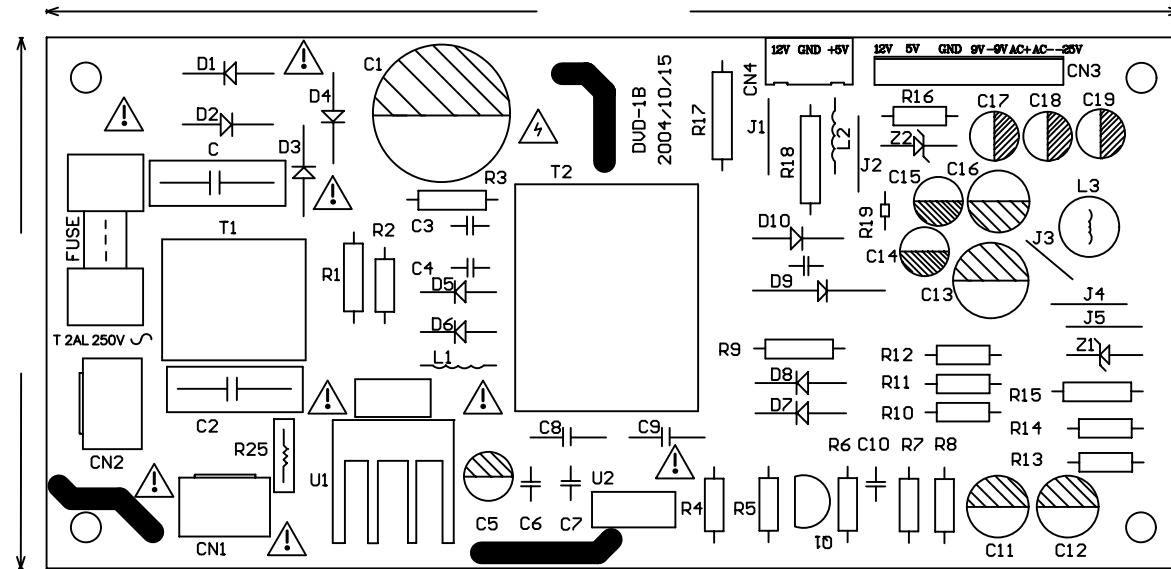
Panel Control

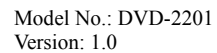


KARAOKE



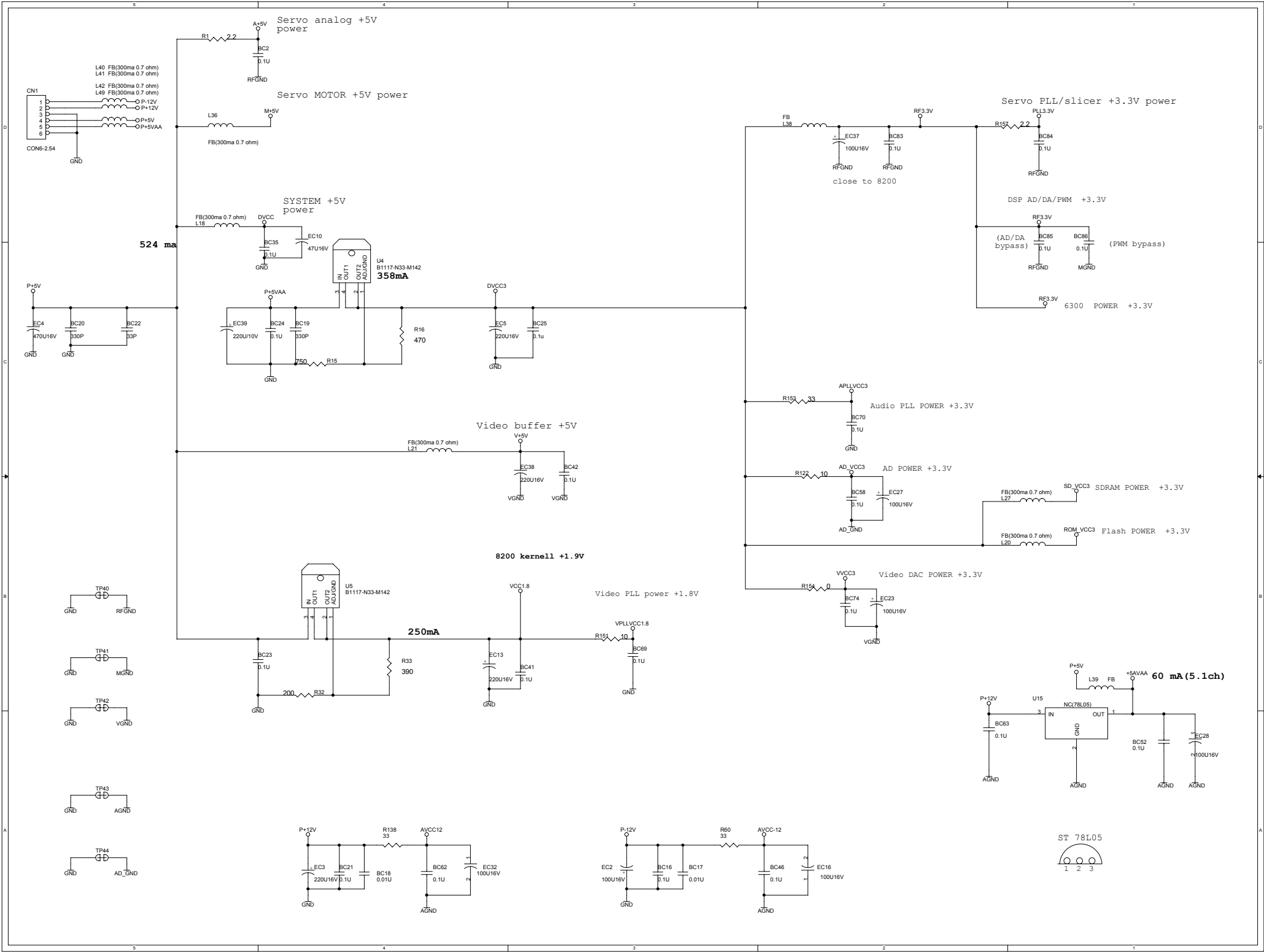
POWER BOARD



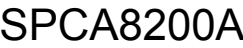


CIRCIUT DIAGRAM

POWER



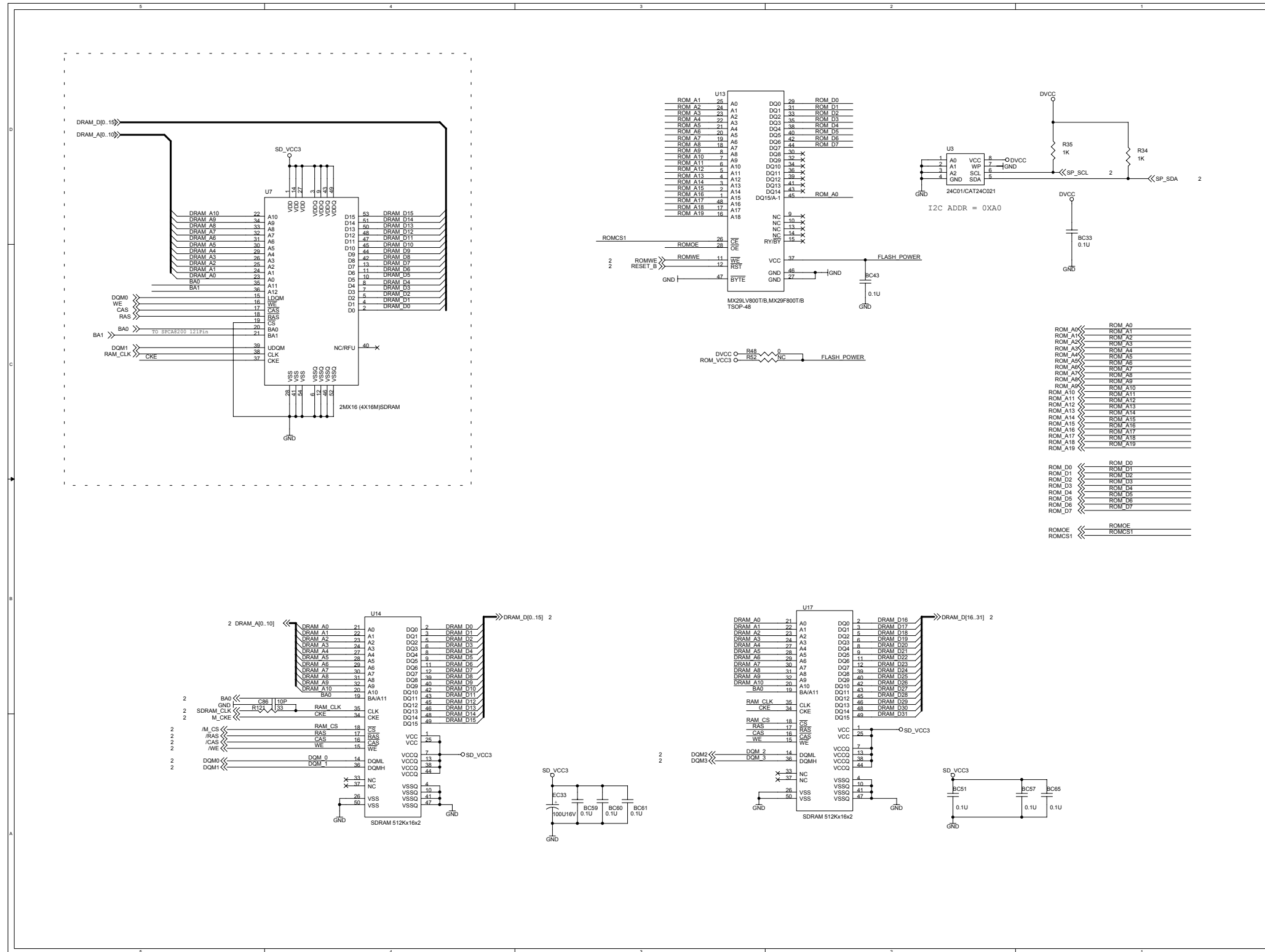
Model No.: DVD-2201
Version: 1.0



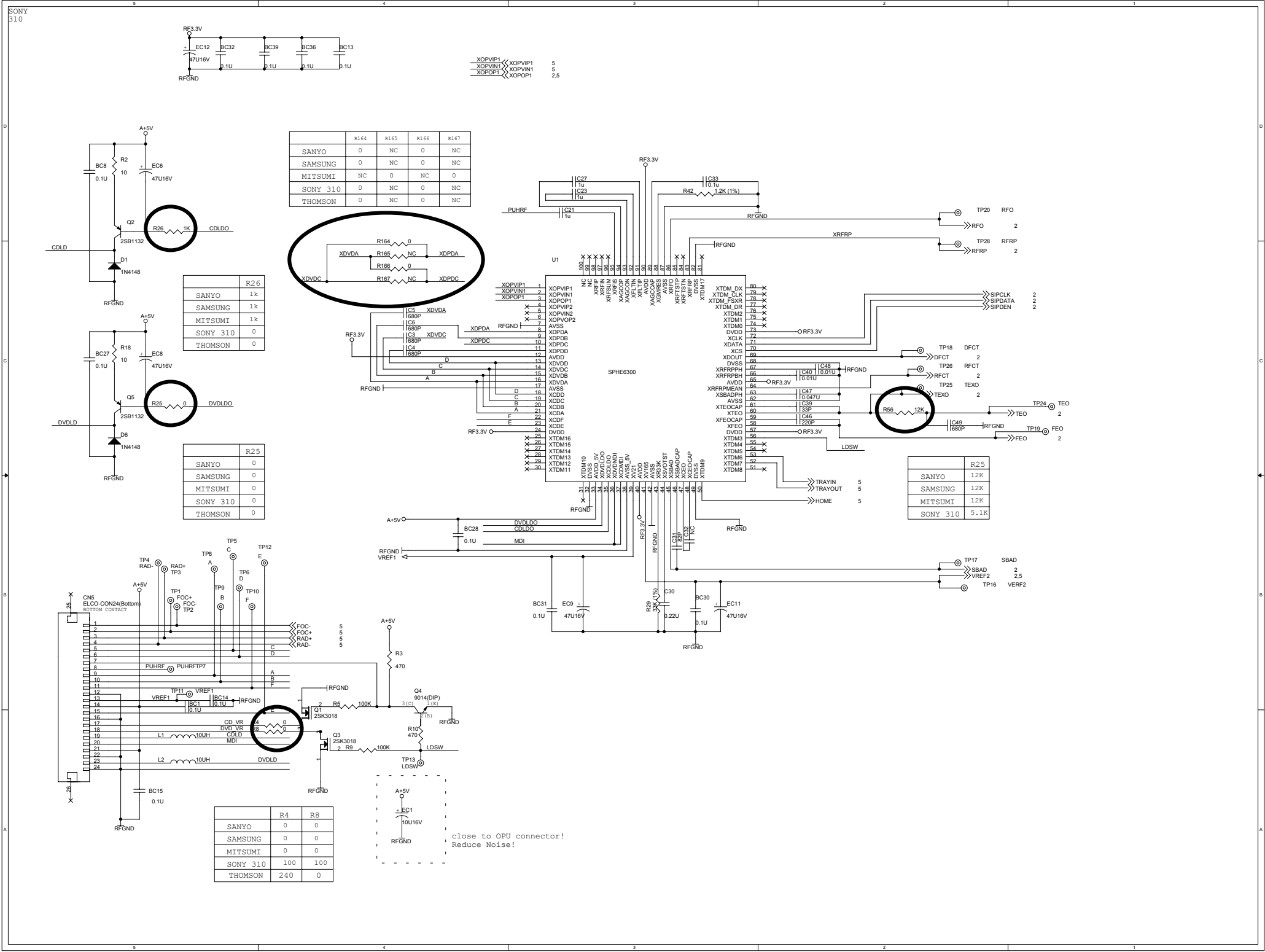
Boot trap

ON2-2.54mm
Short the jumper
to use boot trap

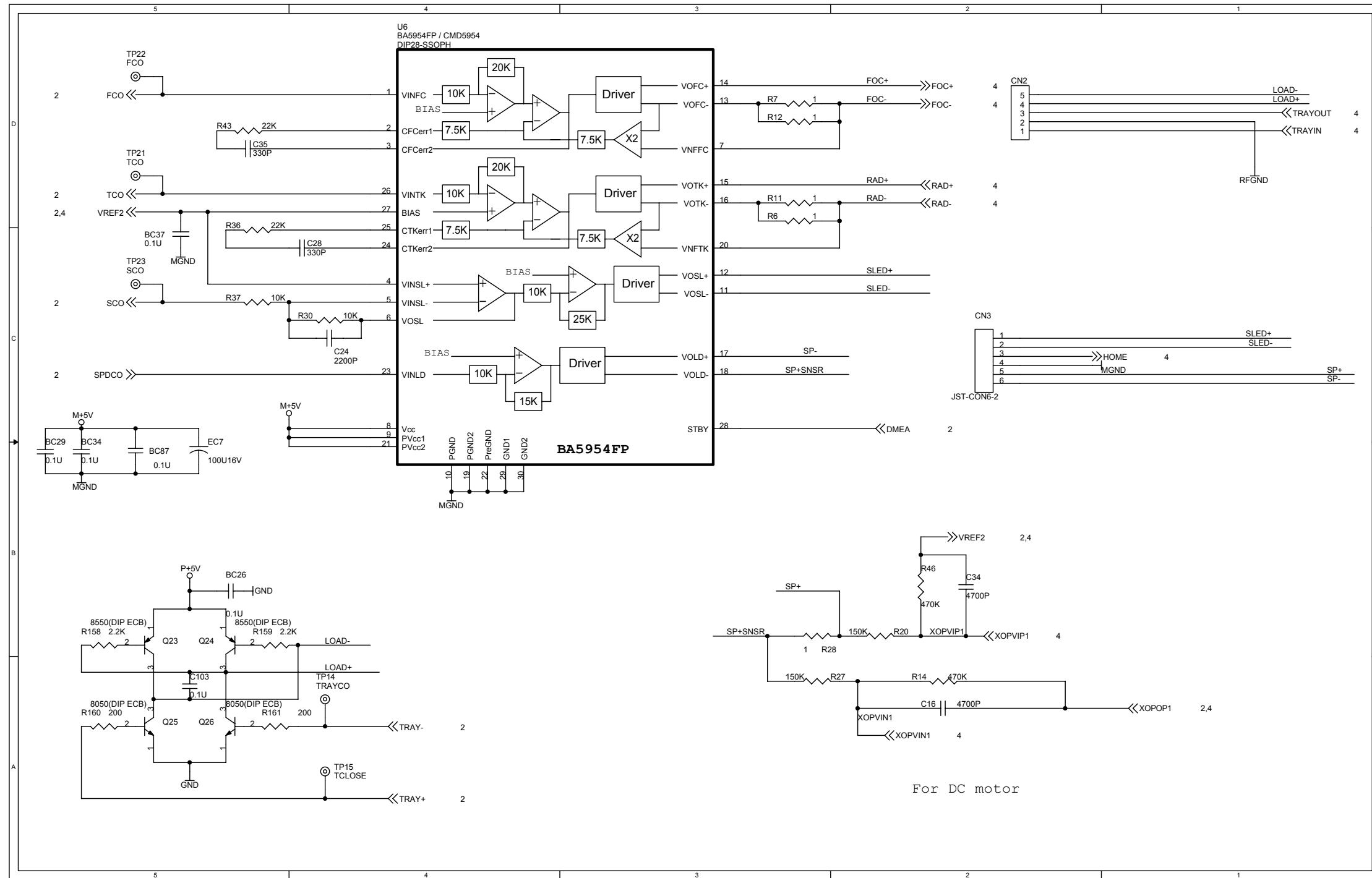
ROM /FLASH MEMORY



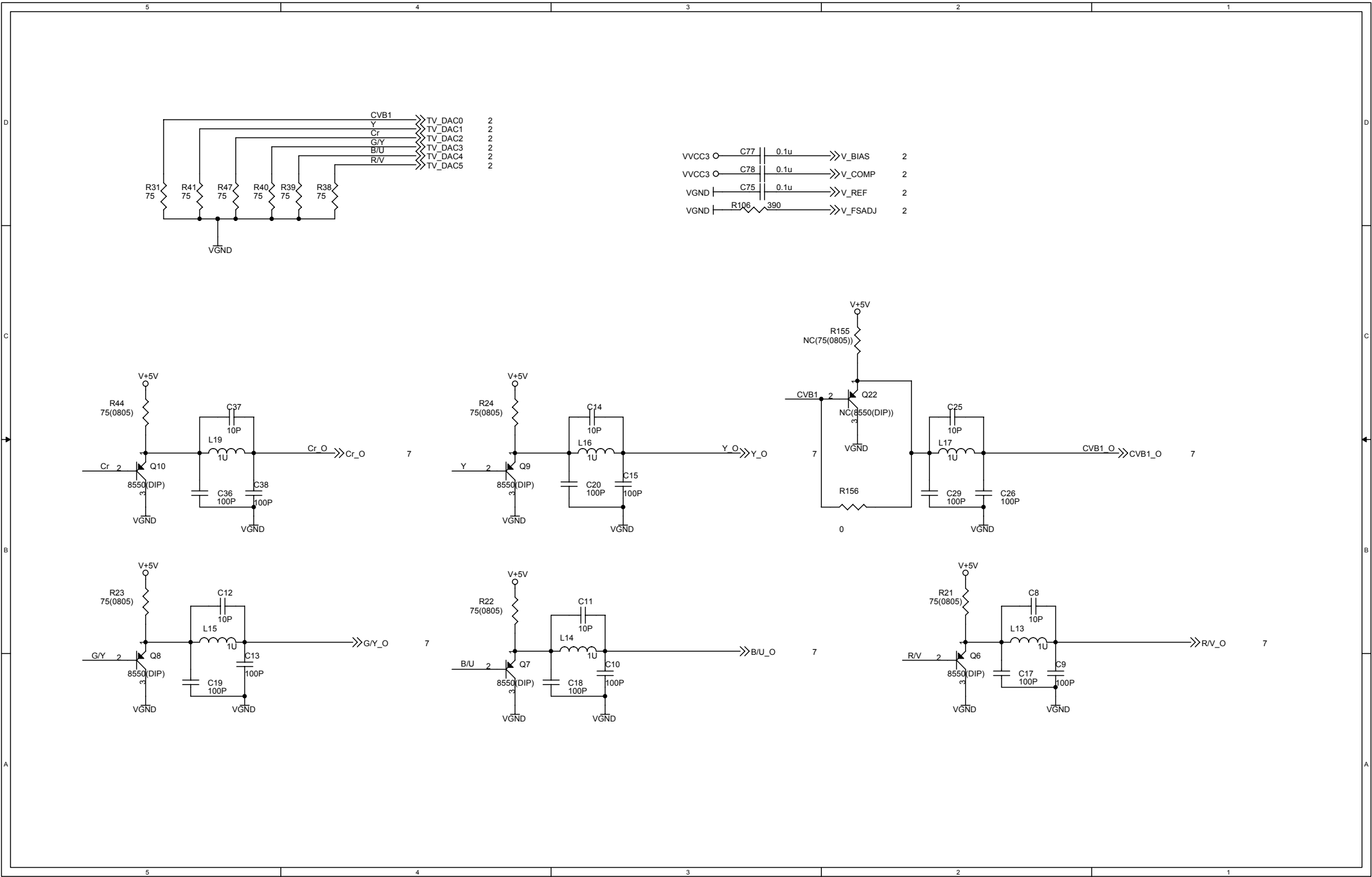
PRE-AMP



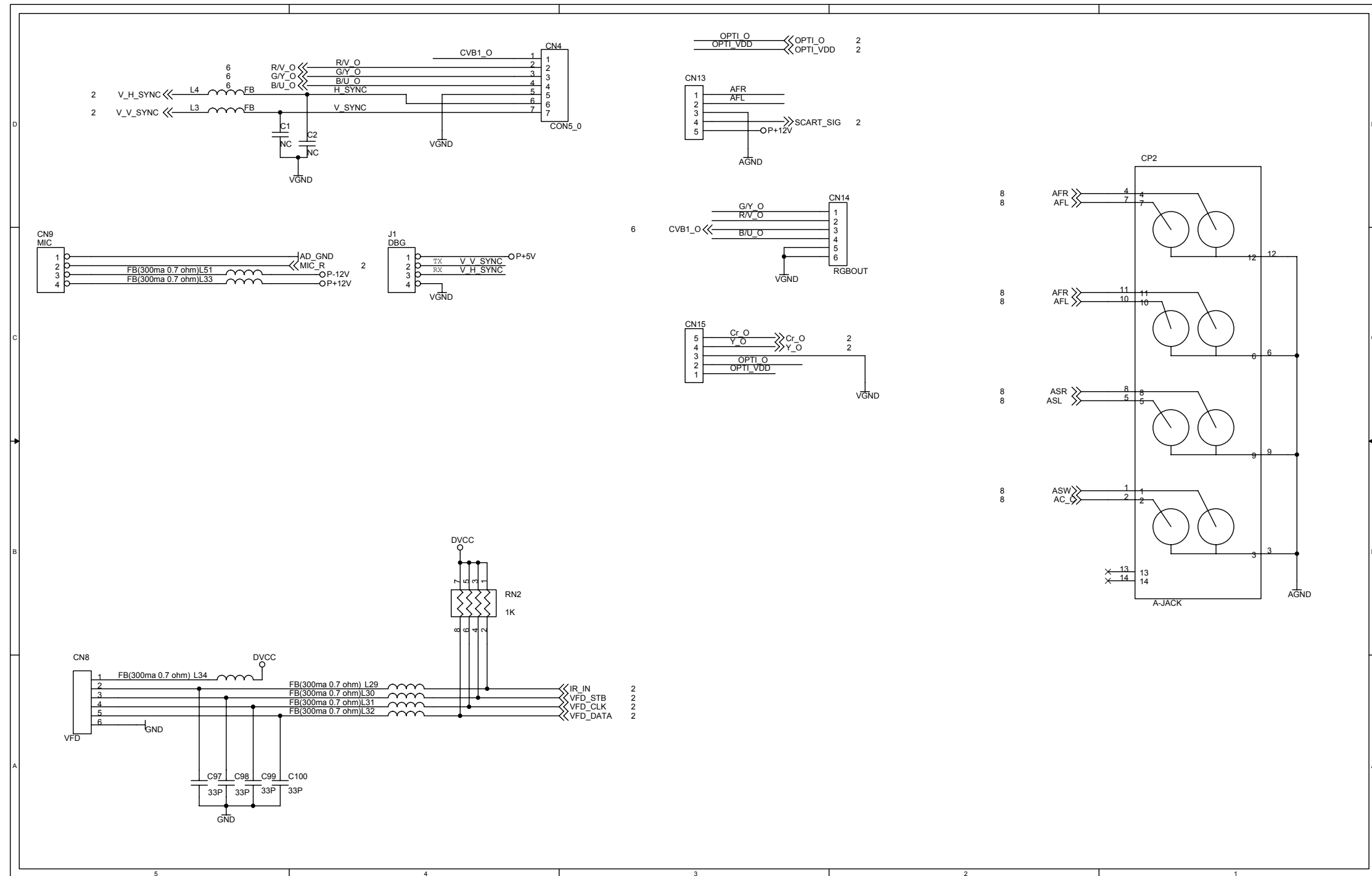
MOTOR-DRIVER



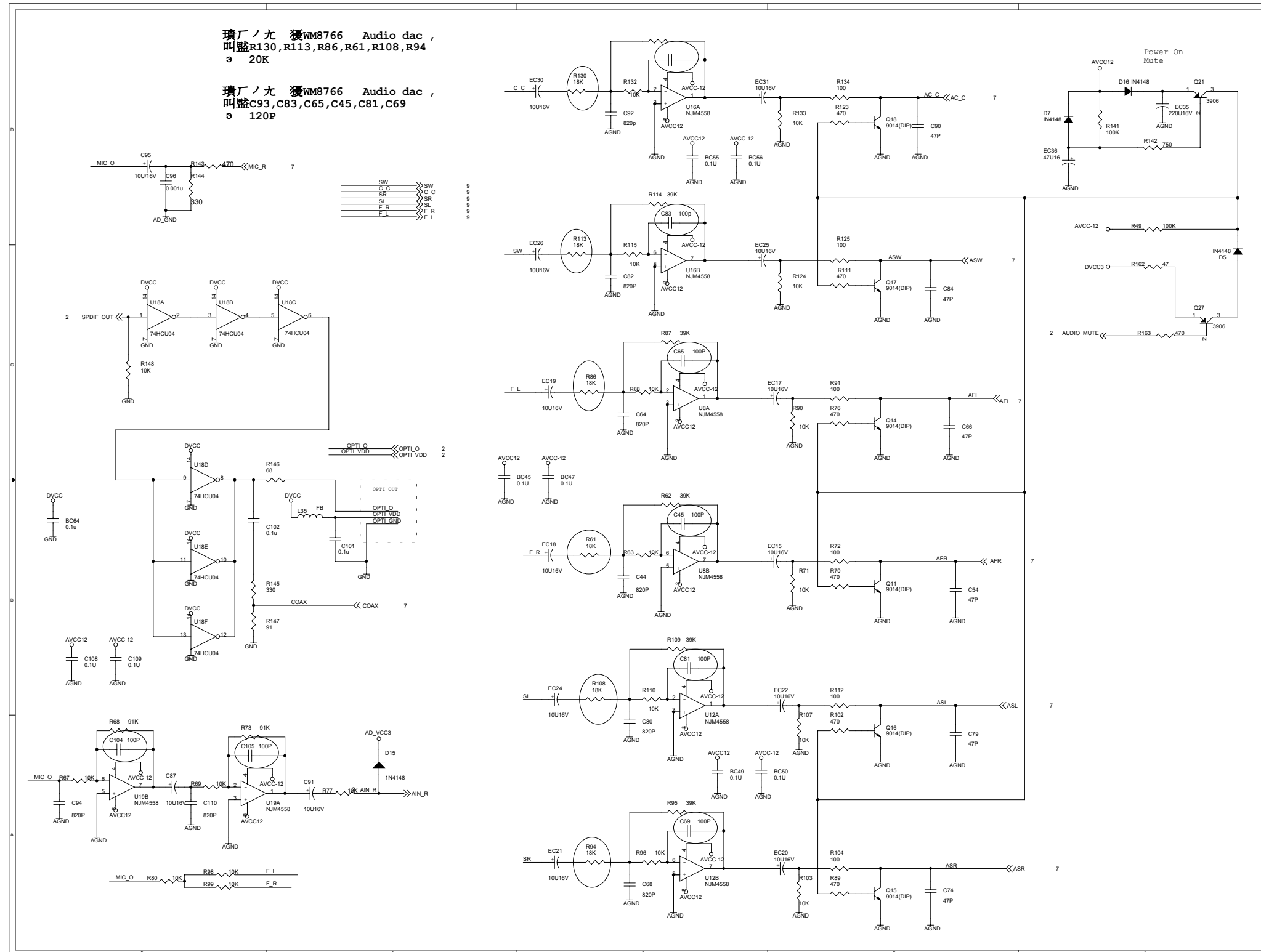
VIDEO BUFFER



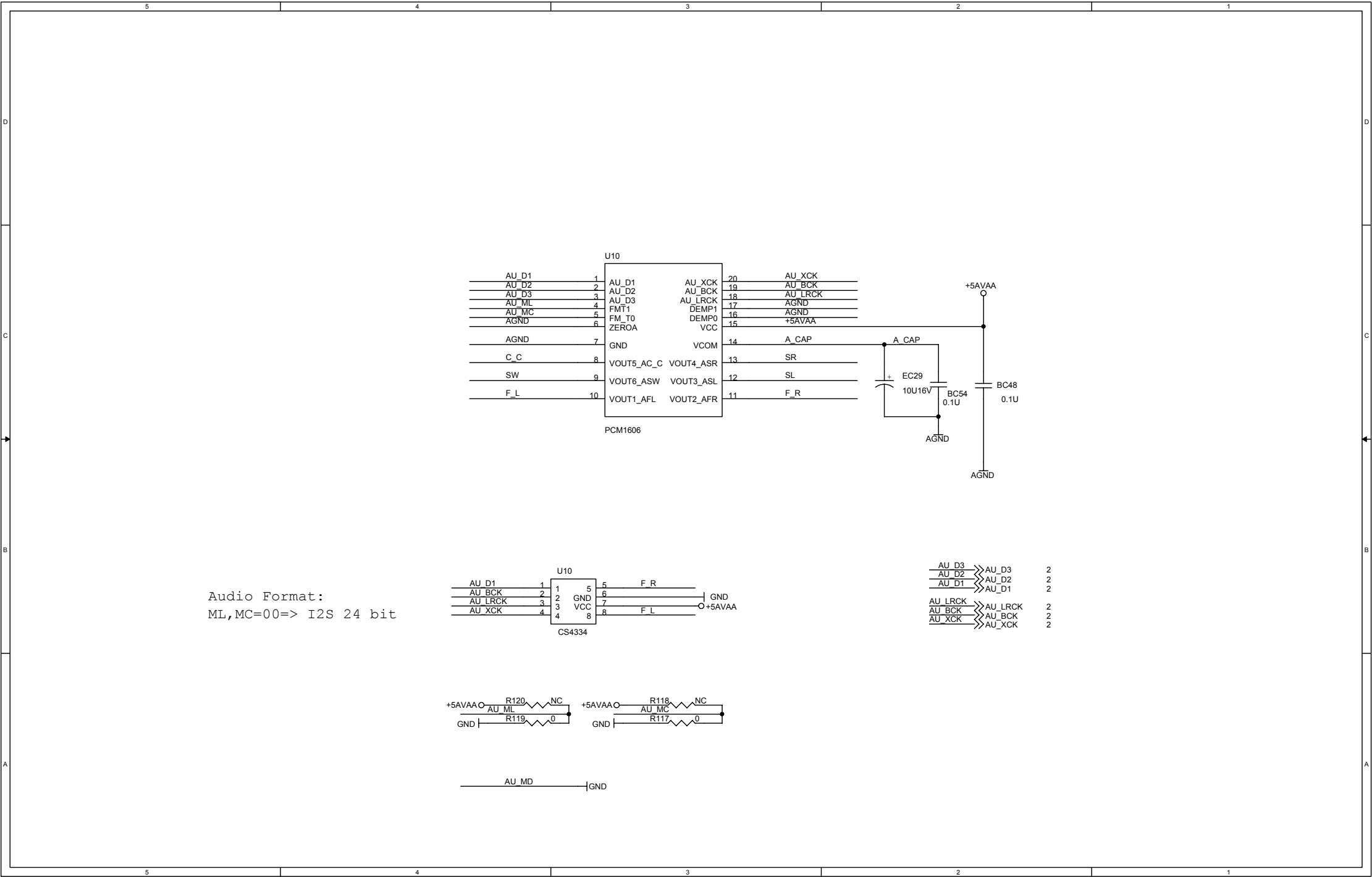
CONNECTOR



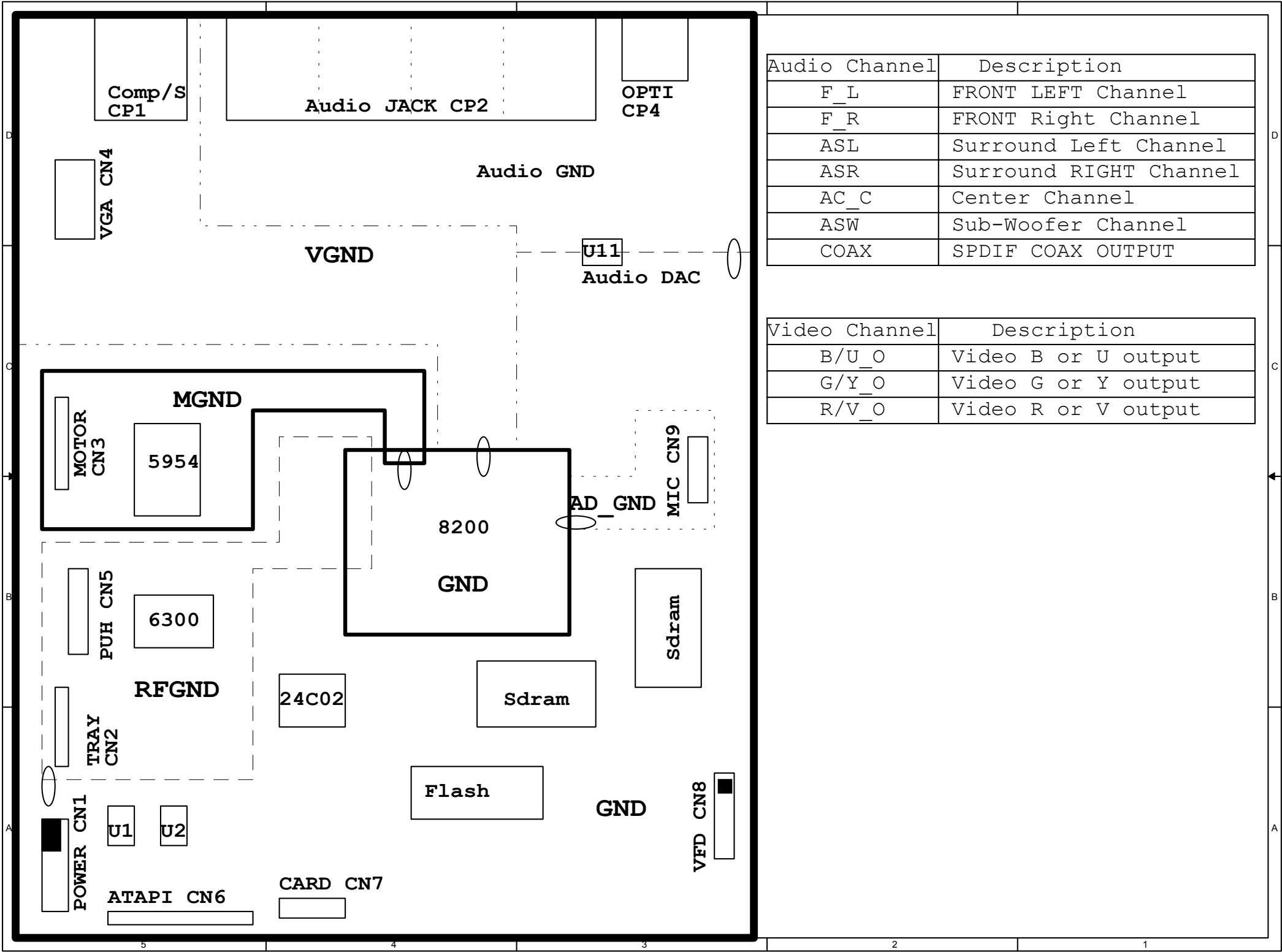
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AUDIO DAC



LAYOUT BLOCK



EXPLODED VIEW & PART LIST

