



This Service Manual is a property of Samsung Electronics Co., Ltd.  
Any unauthorized use of Manual can be punished under applicable  
International and/or domestic law.

© Samsung Electronics Co., Ltd. FEB. 2005  
Printed in Korea  
AD82-00104A

SAMSUNG

SERVICE MANUAL

VP-D451(I)/D453(I)/D454(I)/D455(I)/D6620I/D6650I



## DIGITAL VIDEO CAMCORDER

Chassis : Tiger

**BASIC : VP-D455**

**Application Models**

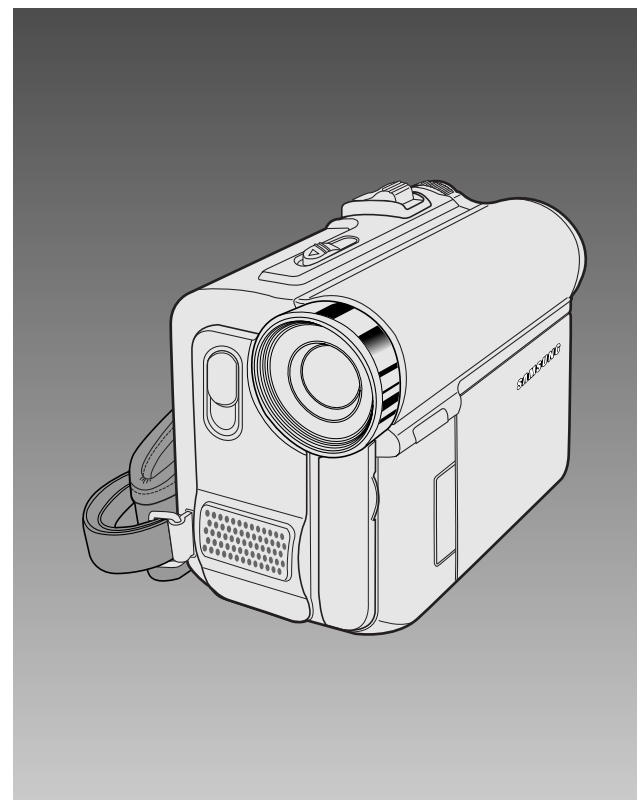
: VP-D451(I)/VP-D453(I)/  
VP-D454(I)/VP-D455(I)/  
VP-D6620I/VP-D6650I

**Application Area**

: XEF, XEU, XEG, XET, XEV, XEC, XSA, CDM,  
XST, XEO, XEH, XEP, XEE, EAP, EUR, XEN,  
HACO, TAW, TIT, COL, SEO, XSS, SED, XSH,  
XSG, FES, XTL, CHN, ZAM, STS, SMR, XFA,  
ITN, KNT, XSE, FPT, RAD

# SERVICE Manual

### DIGITAL VIDEO CAMCORDER

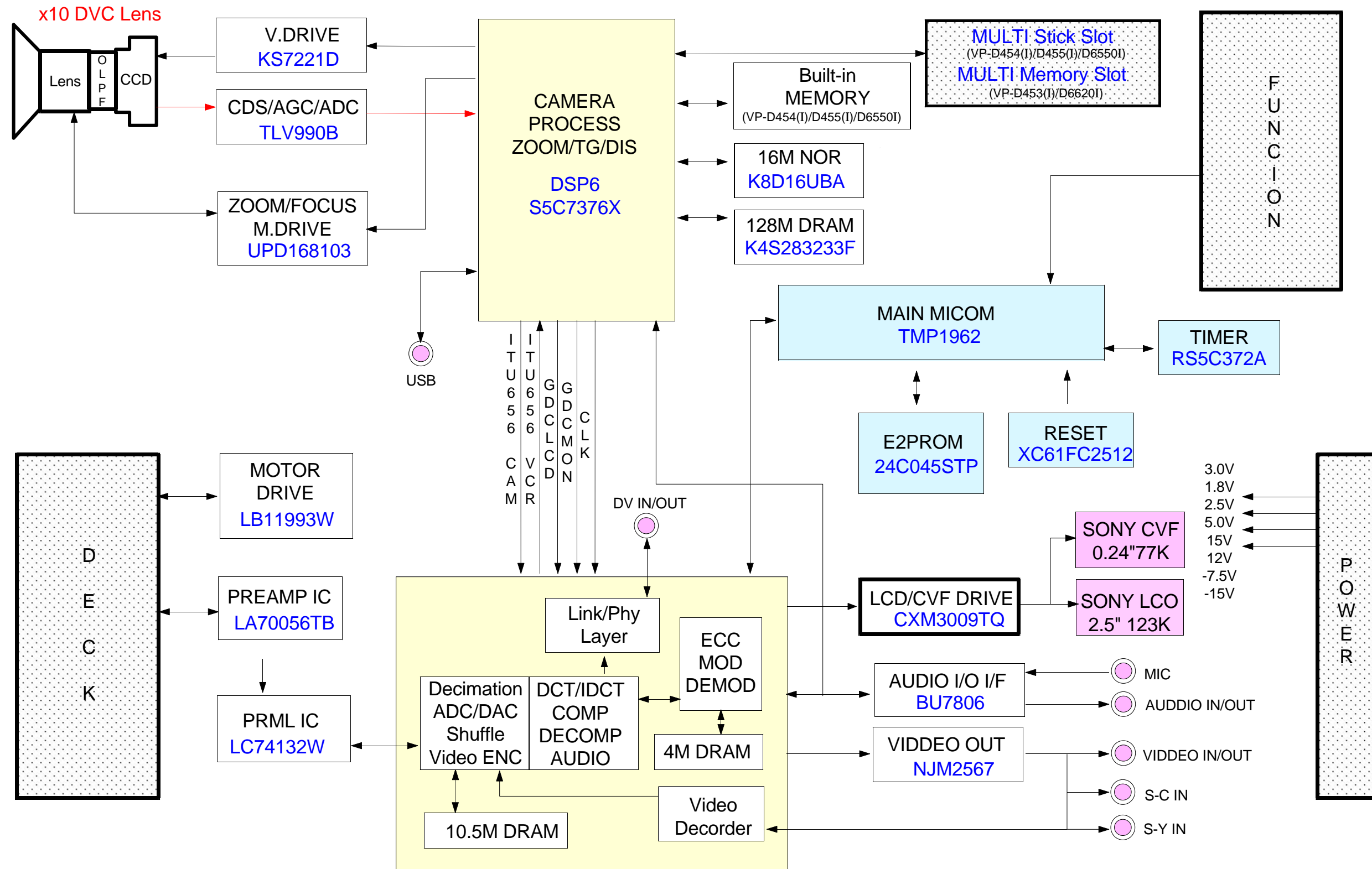


### Merit & Character regarding Product

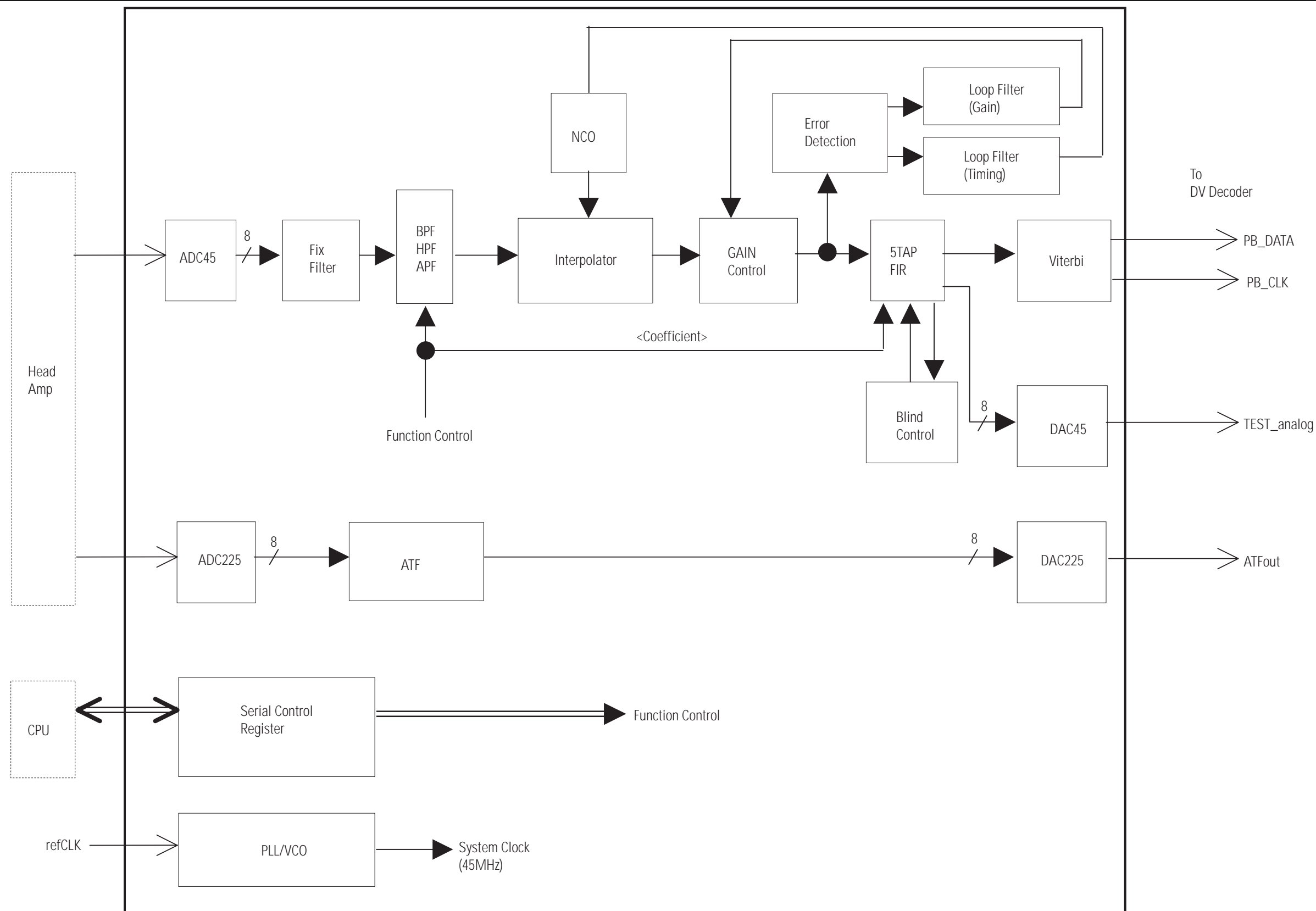
- 🍏 Ultra Compact Design DVC
- 🍏 Use Built-in Flash Memory  
(VP-D454(i)/D455(i)/D6650I Only)
- 🍏 Multi Memory Card Slot  
(VP-D454(i)/D455(i)/D6650I Only)
- 🍏 Direct Print System : PictBridge™
- 🍏 USB 2.0
- 🍏 High quality MPEG4
- 🍏 Digital Image Stabilizer
- 🍏 Real Wide mode (16:9)

## 7. Block Diagrams

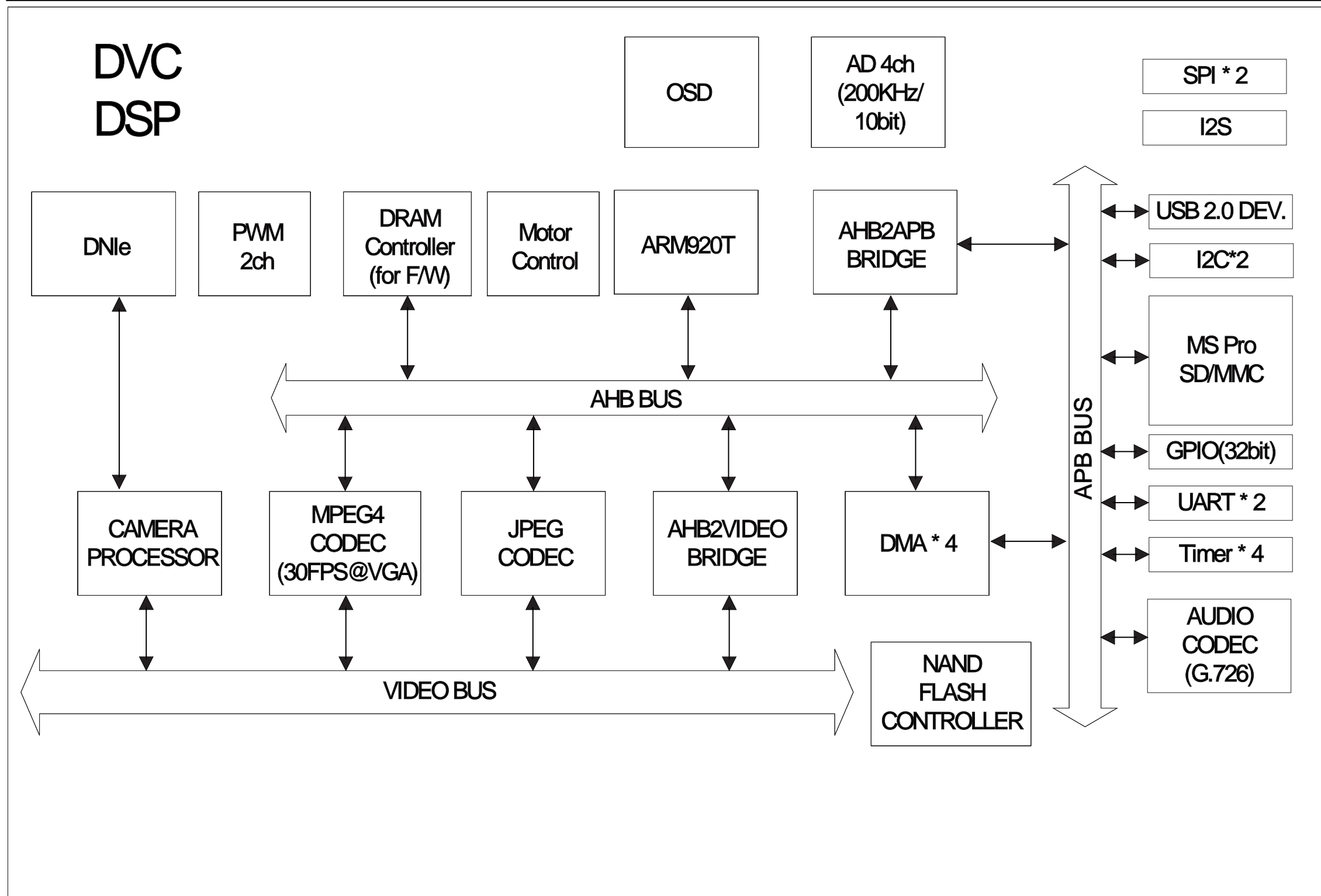
### 7-1 All Block Diagram



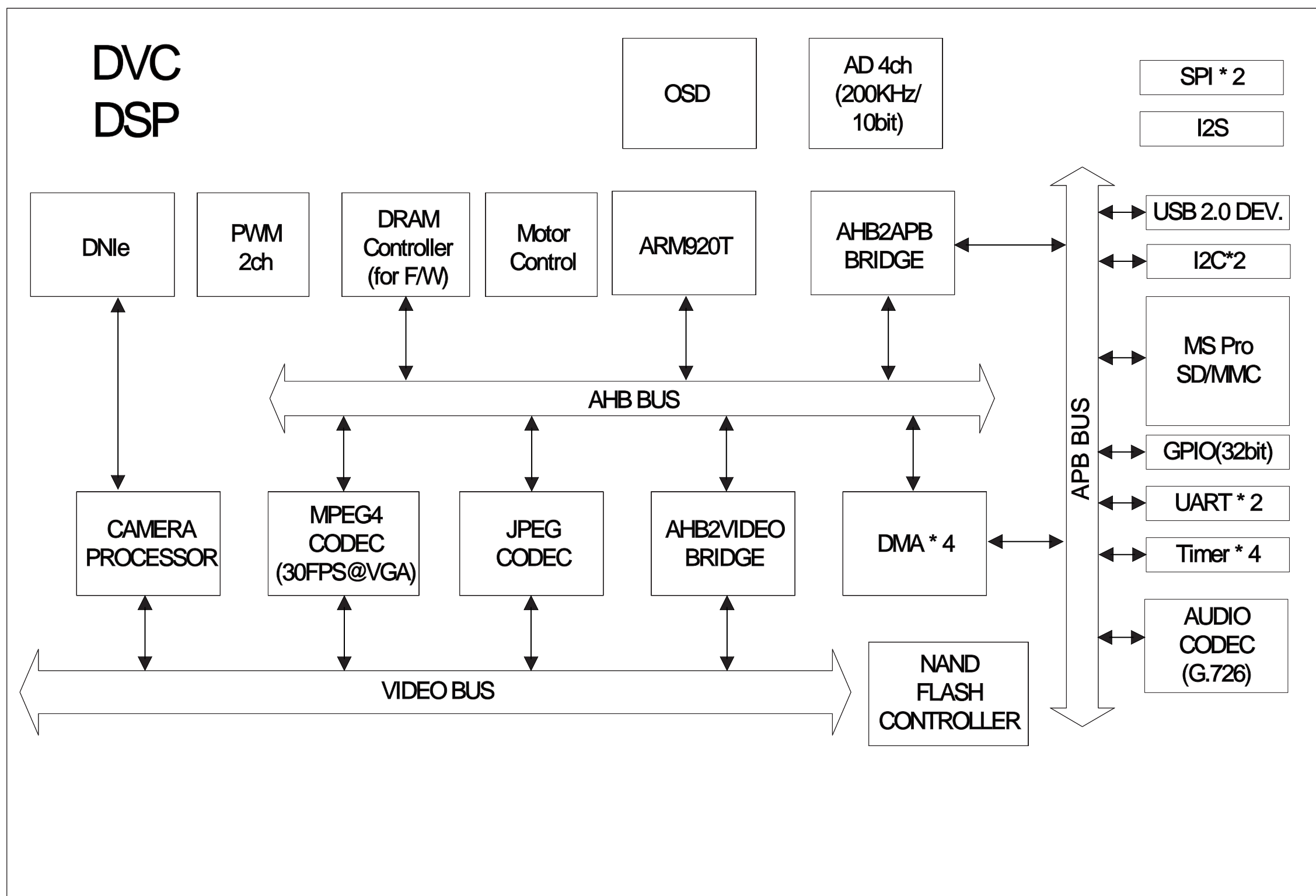
### 7-2 IC102 Block Diagram



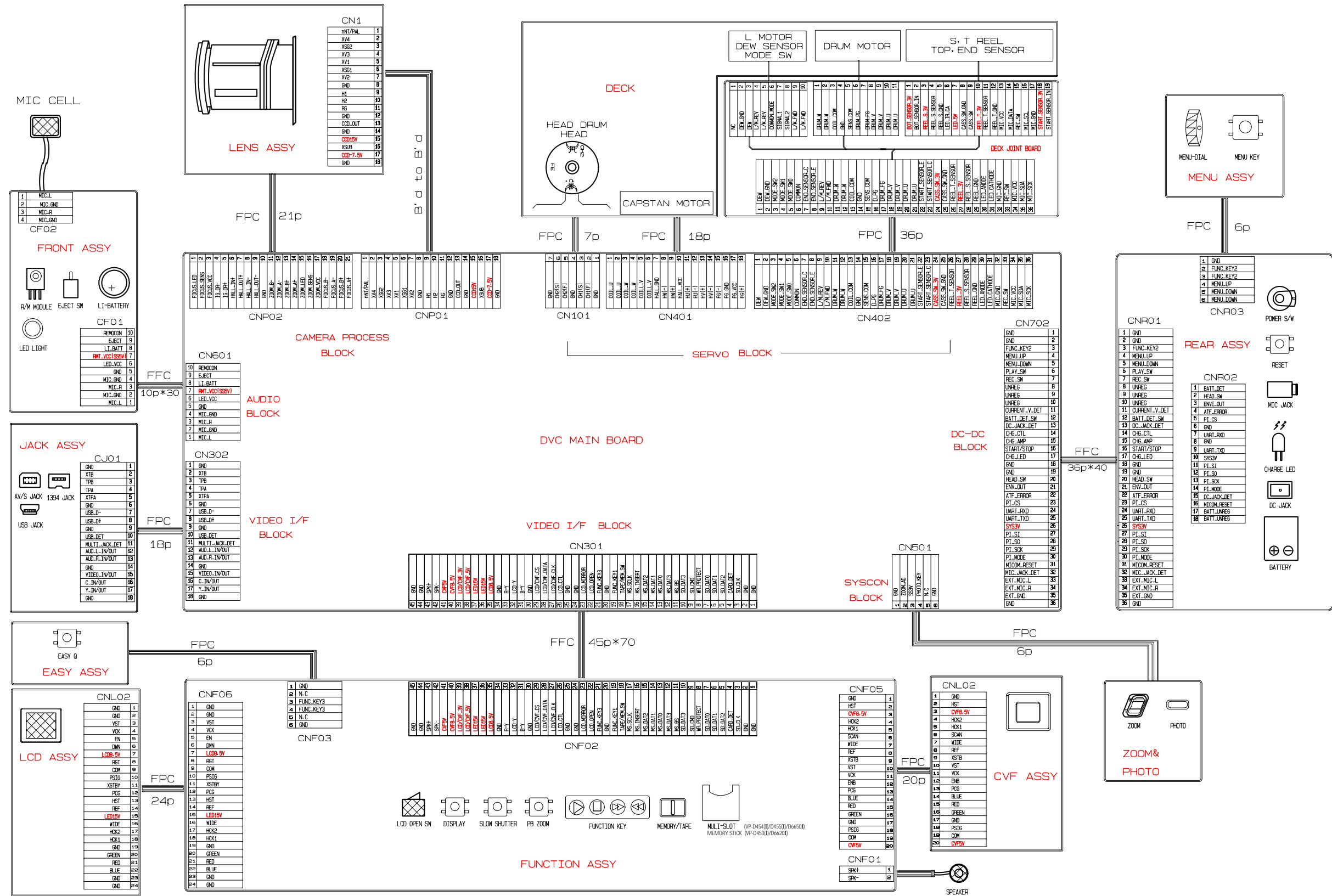
7-3 IC201 Block Diagram



7-4 ICM01 Block Diagram



# 8. Wiring Diagram



## MEMO

## 10. Schematic Diagrams

	Page
10-1 DC/DC Converter (Main PCB) - - - - -	10-2
10-2 Servo (Main PCB) - - - - -	10-3
10-3 System Control (Main PCB) - - - - -	10-4
10-4 Pre Amp/PRML (Main PCB) - - - - -	10-5
10-5 DV-1Chip (Main PCB) - - - - -	10-6
10-6 Video-Interface (Main PCB) - - - - -	10-7
10-7 Audio (Main PCB) - - - - -	10-8
10-8 Camera Process (Main PCB) - - - - -	10-9
10-9 DSP (Main PCB) - - - - -	10-10
10-10 Camera Memory 1 (Main PCB) - - - - -	10-11
10-11 Camera Memory 2 (Main PCB) - - - - -	10-12
10-12 CCD (CCD PCB) - - - - -	10-13
10-13 Front (Front PCB) - - - - -	10-14
10-14 Jack (Jack PCB) - - - - -	10-15
10-15 Rear (Rear PCB) - - - - -	10-16
10-16 Function (Function PCB) - - - - -	10-17
10-17 CVF (CVF PCB) - - - - -	10-18
10-18 LCD (LCD PCB) - - - - -	10-19

### Note

For schematic Diagram  
- Resistors are in ohms, 1/8W unless otherwise noted.

#### Special note :

Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

#### Note :

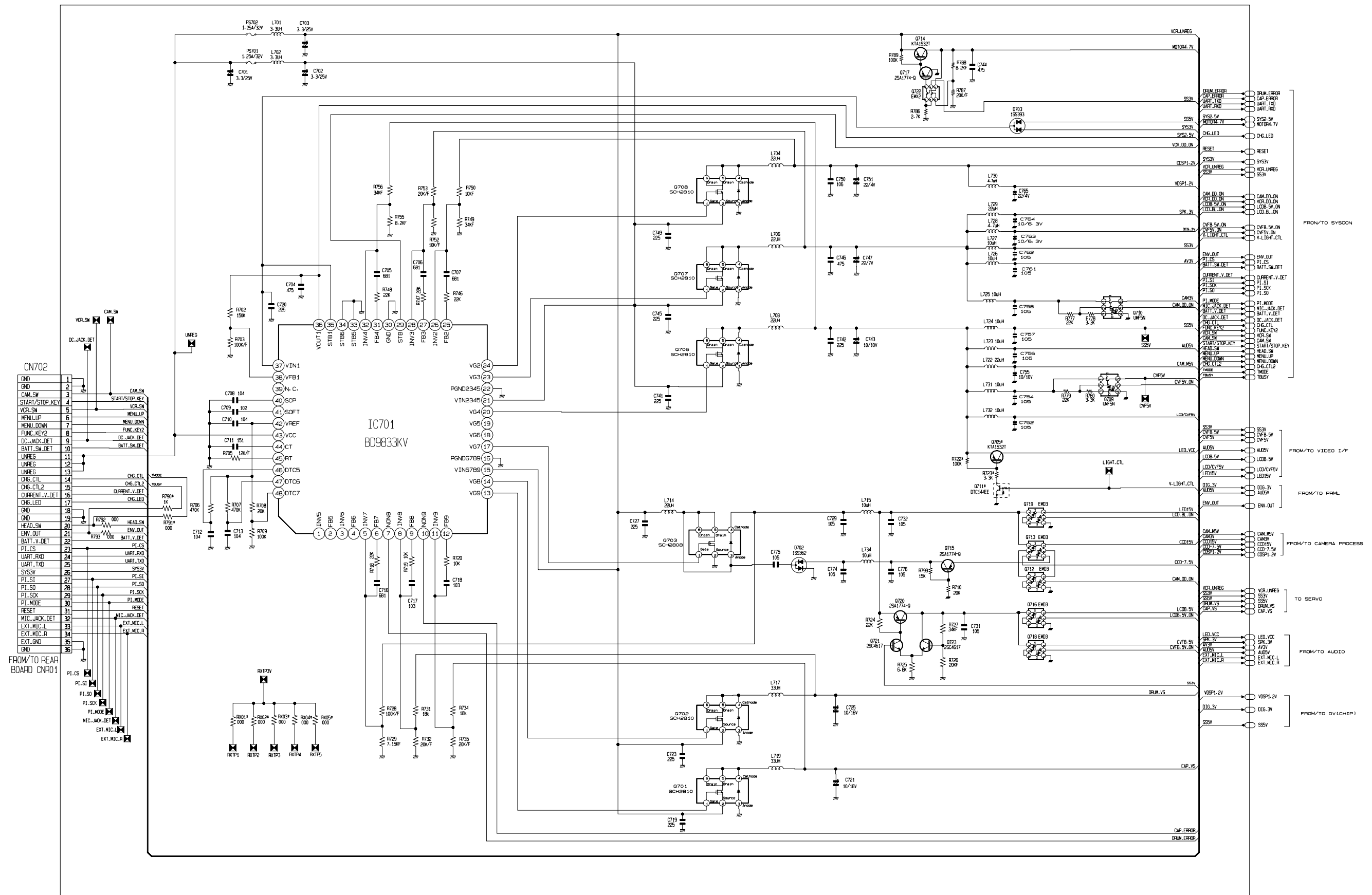
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

#### Important safety notices :

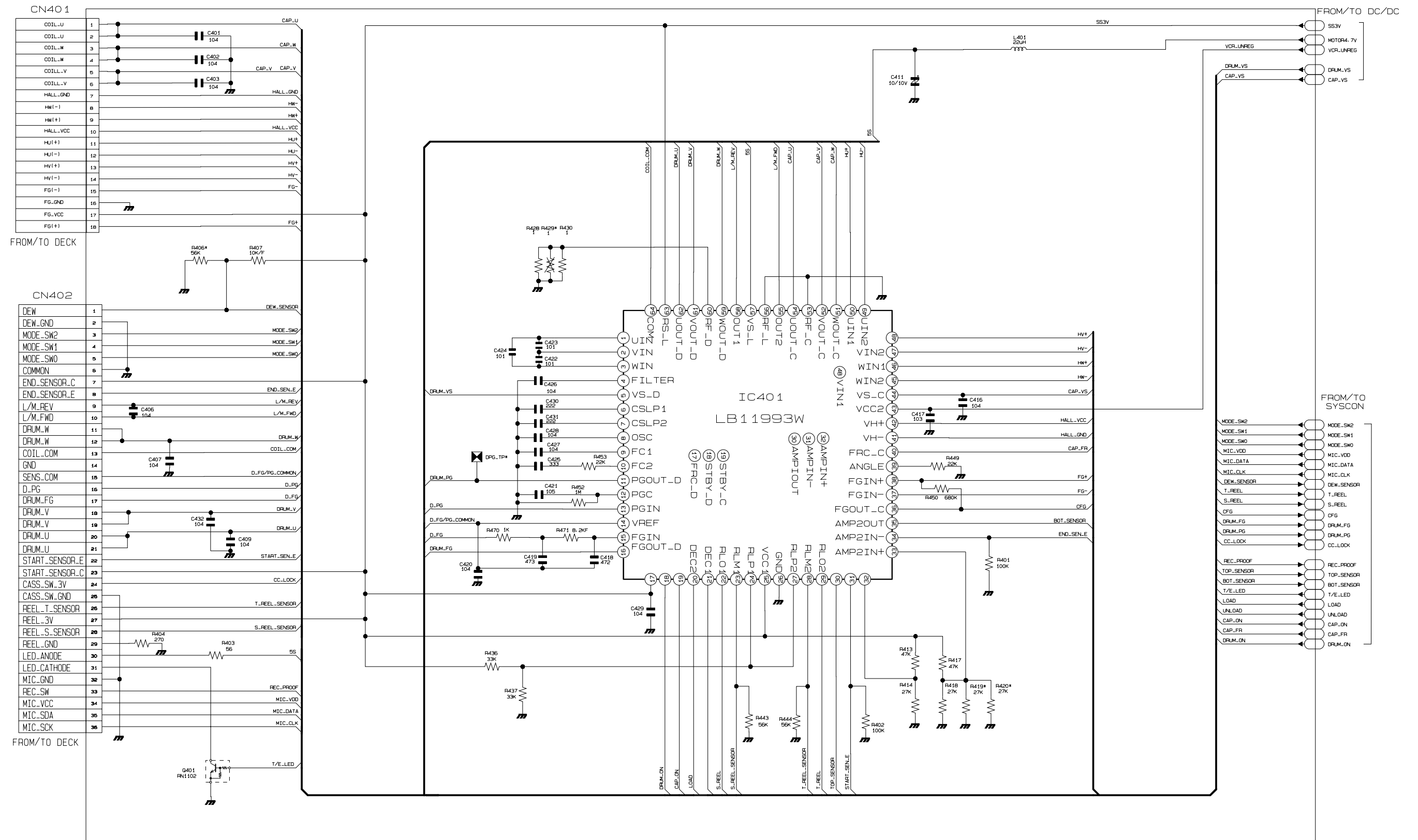
Components identified with the mark  $\triangle$  have the special characteristics for safety. When replacing any of these components. Use only the same type.



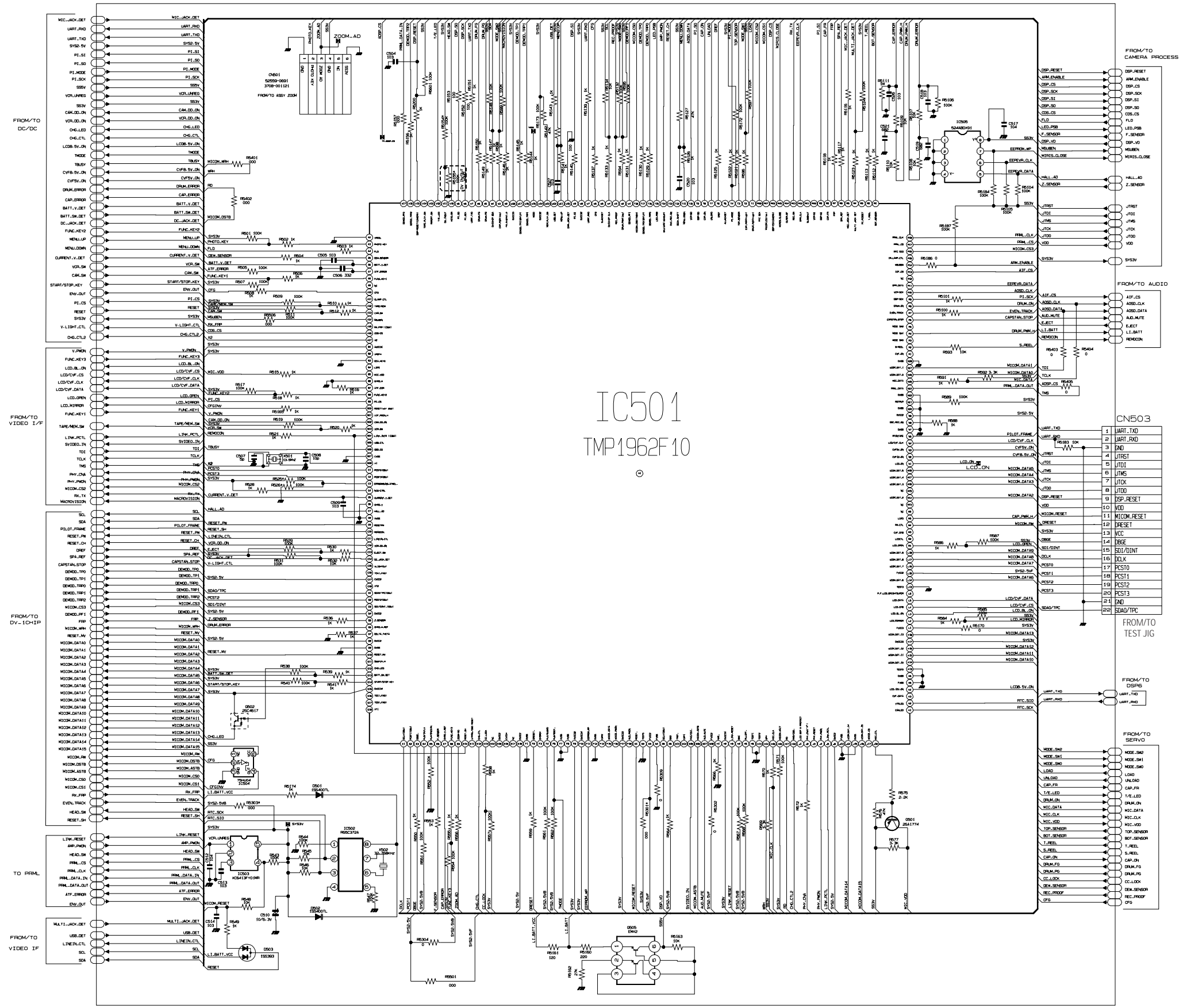
# 10-1 DC/DC Converter (Main PCB)



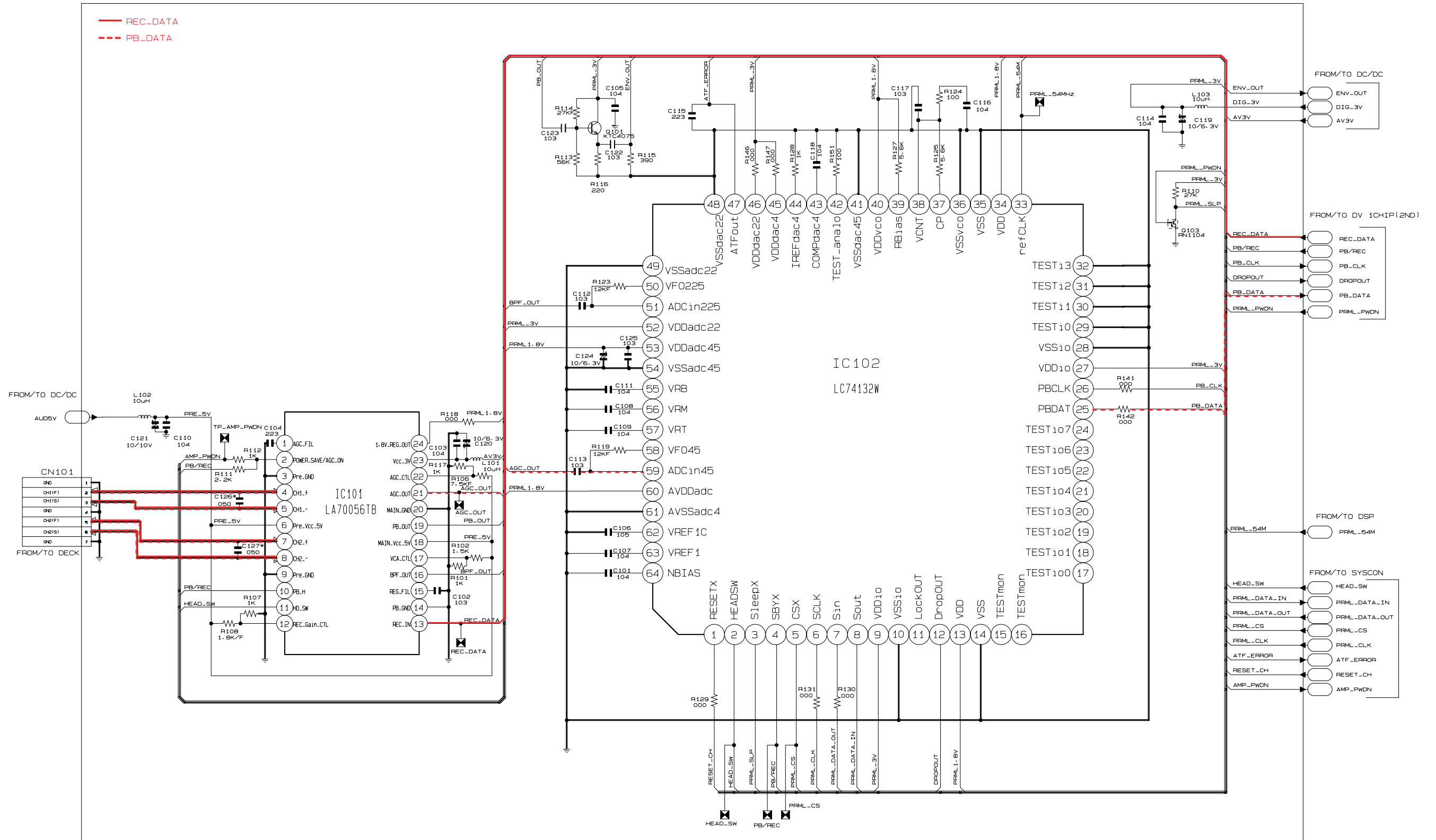
10-2 Servo (Main PCB)



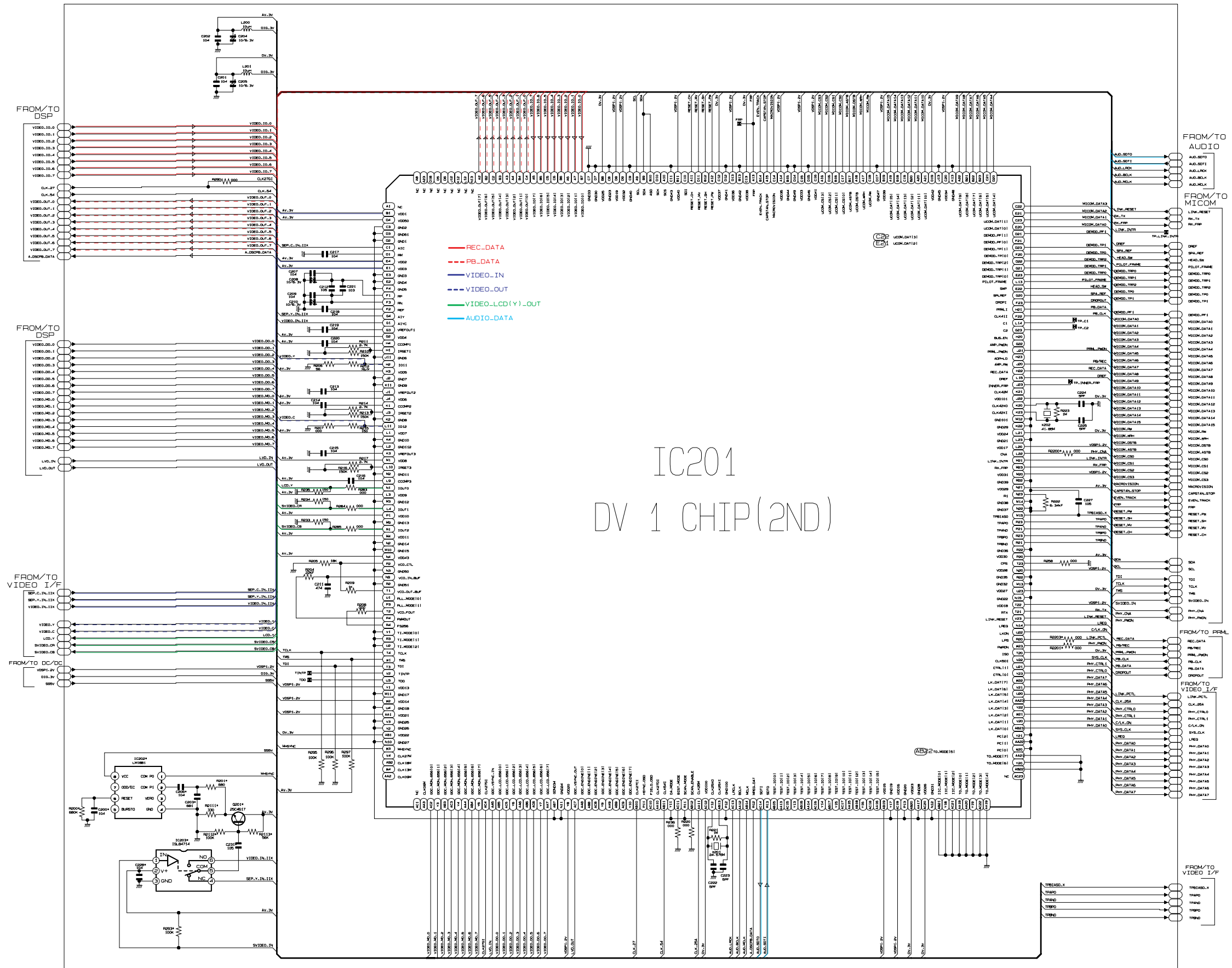
### 10-3 System Control (Main PCB)



10-4 Pre Amp/PRML (Main PCB)

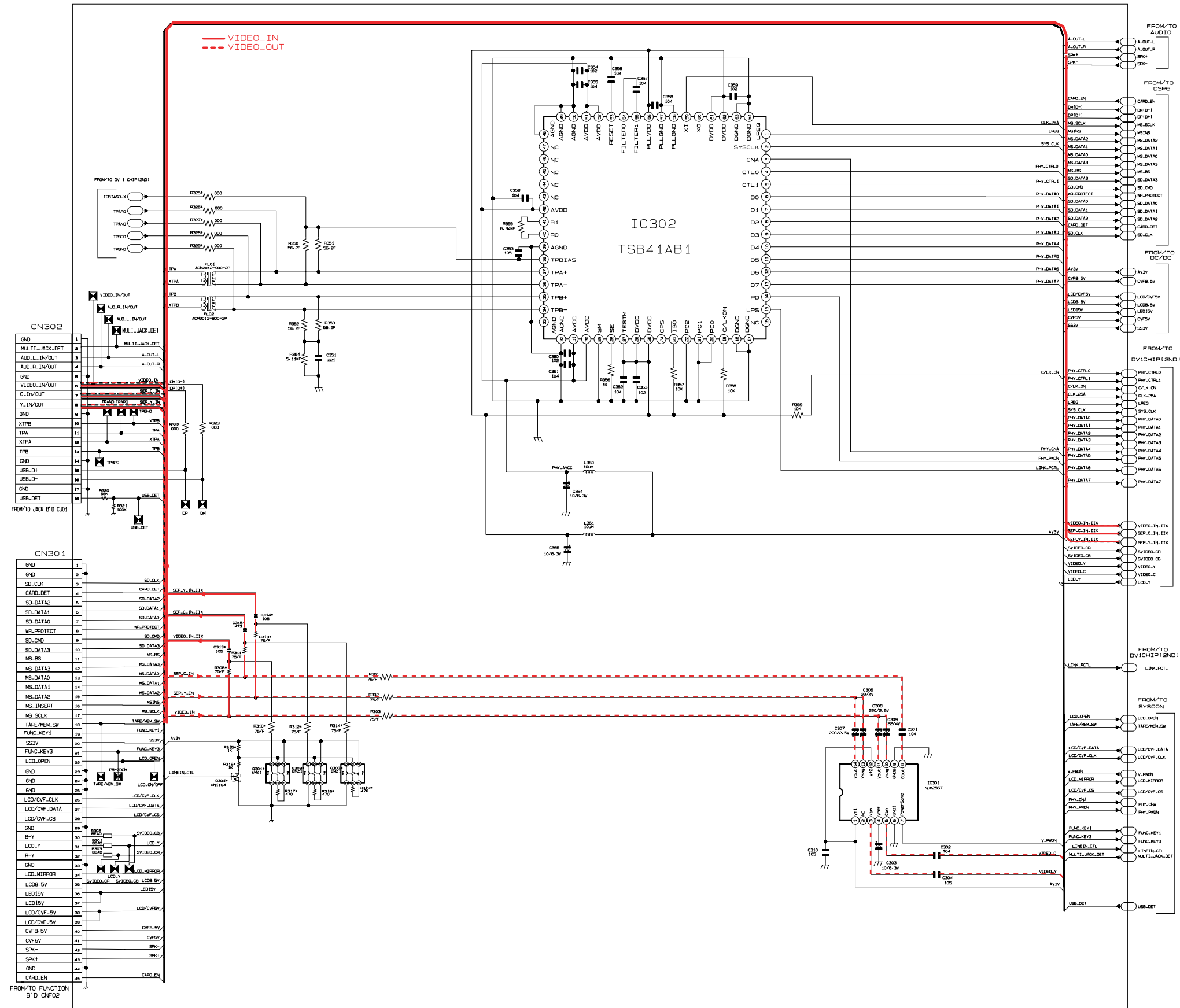


### 10-5 DV-1Chip (Main PCB)

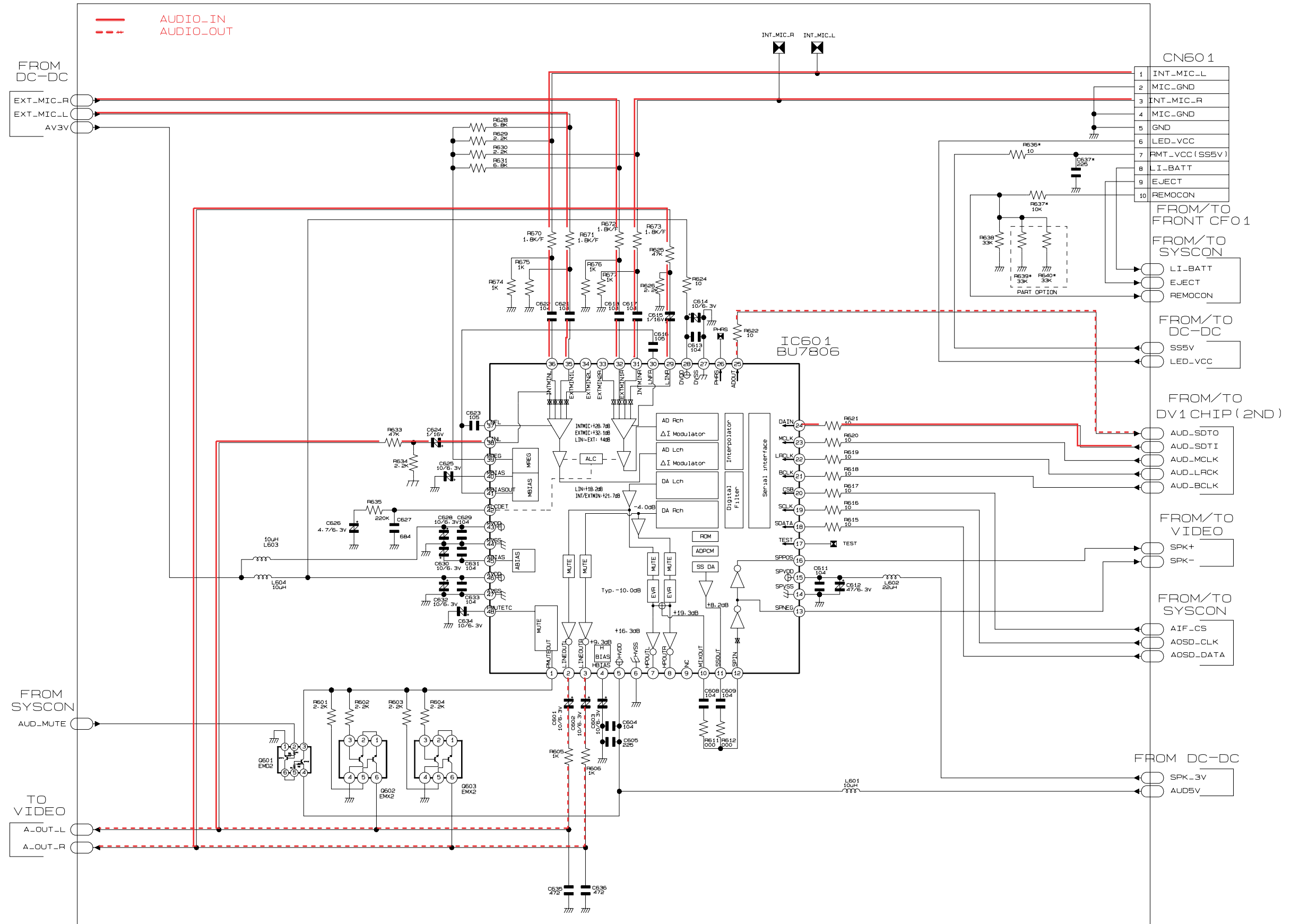


IC201  
DV 1 CHIP (2ND)

### 10-6 Video-Interface (Main PCB)



### 10-7 Audio (Main PCB)

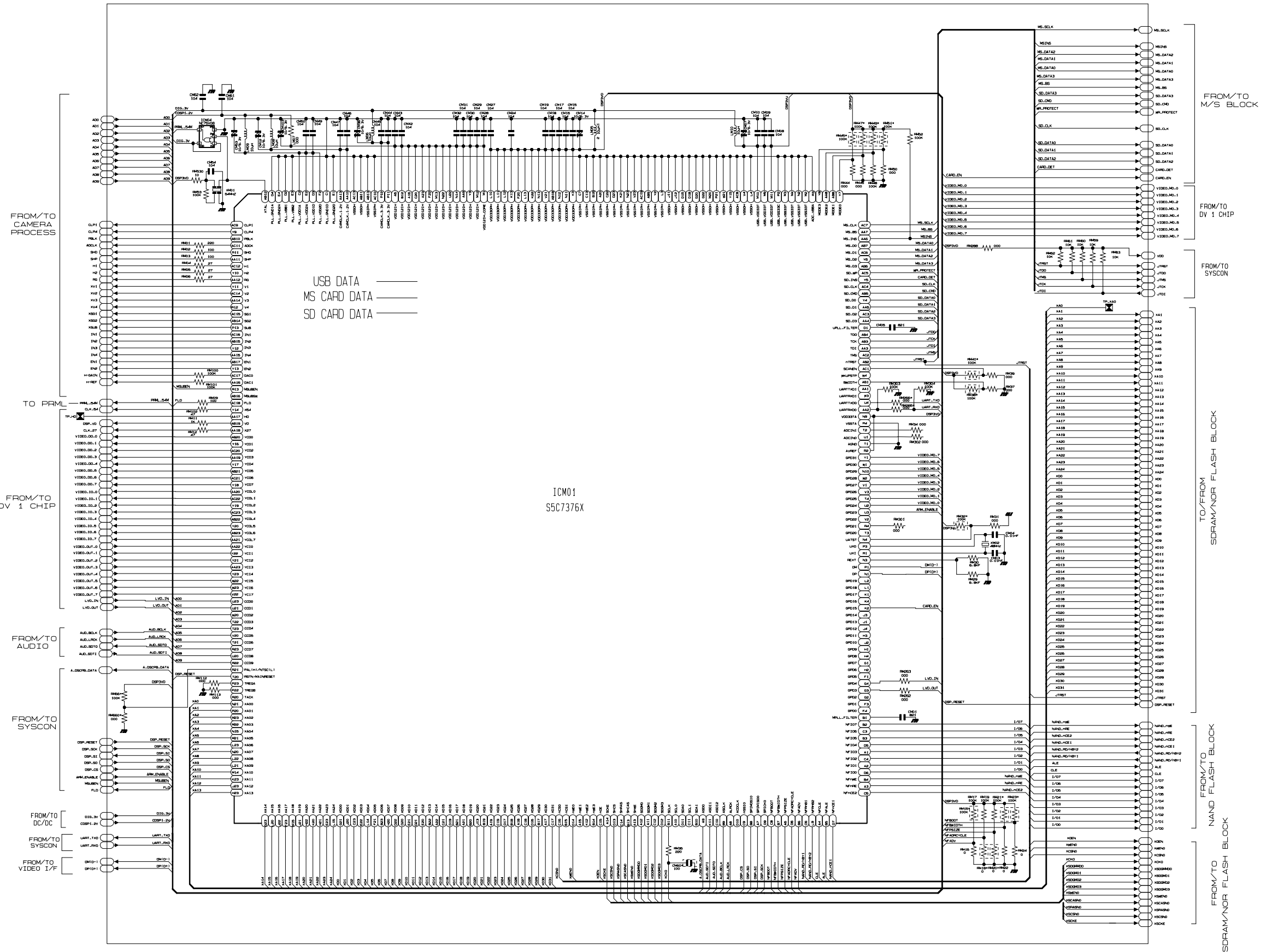




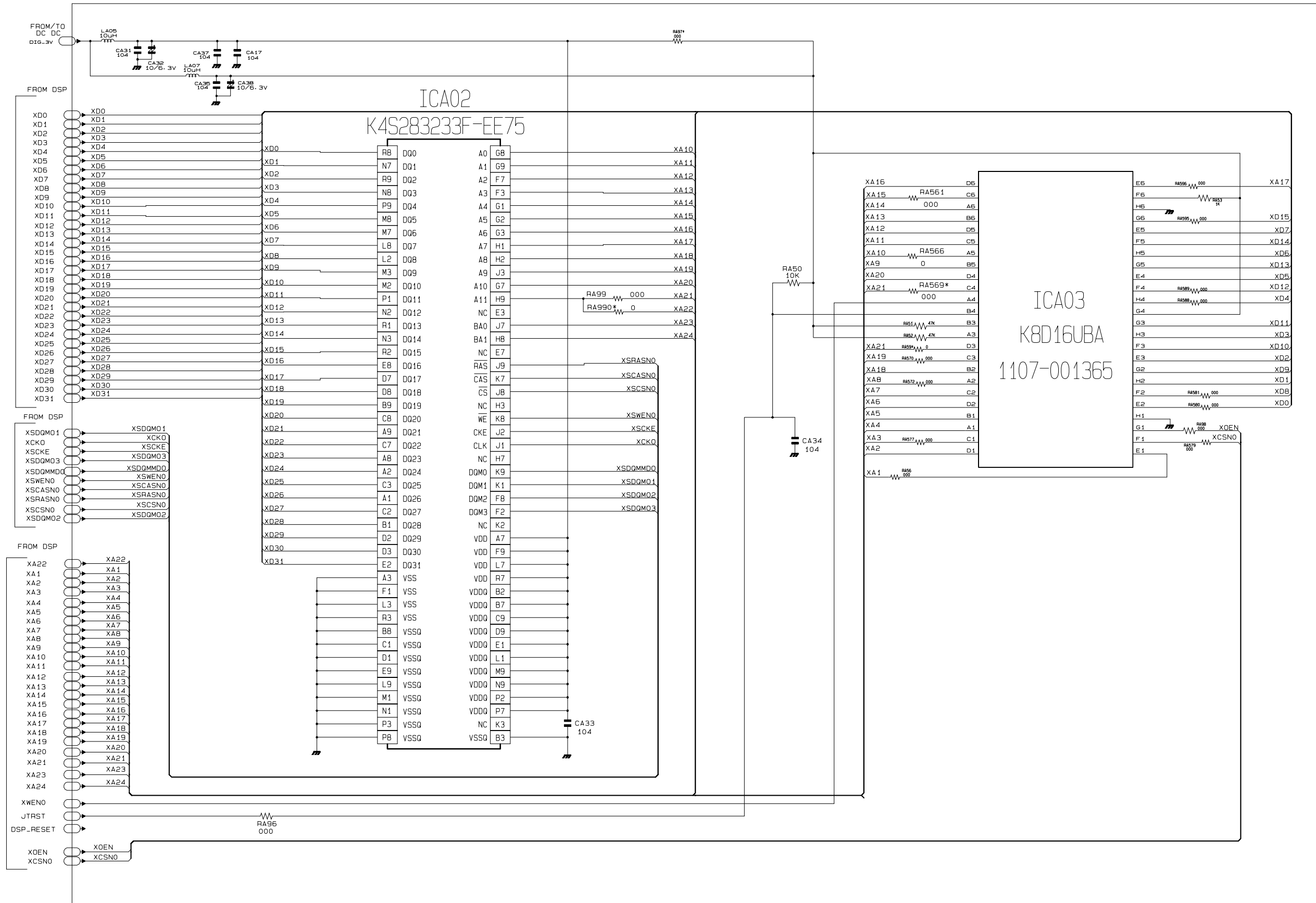




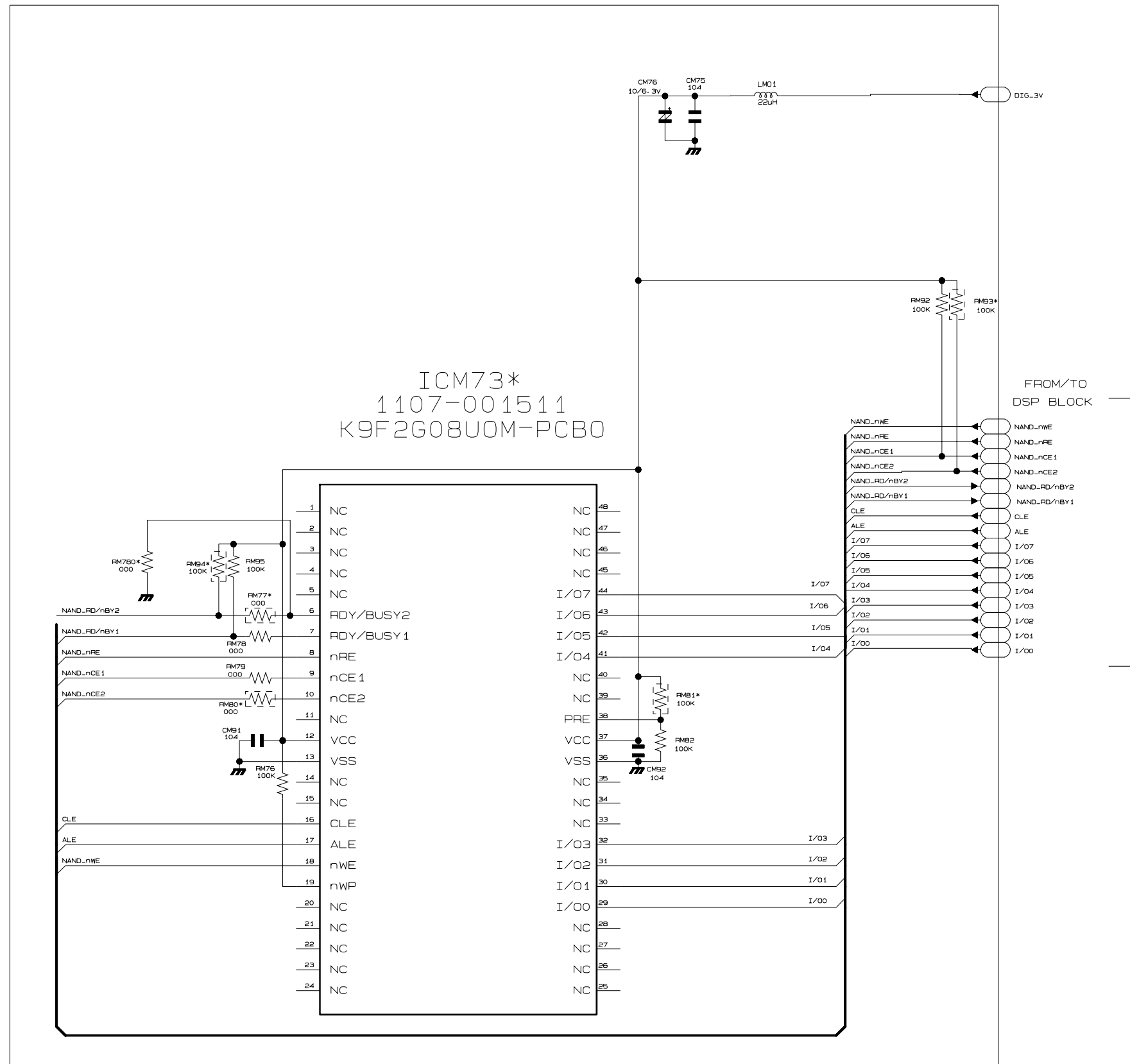
### 10-9 DSP (Main PCB)



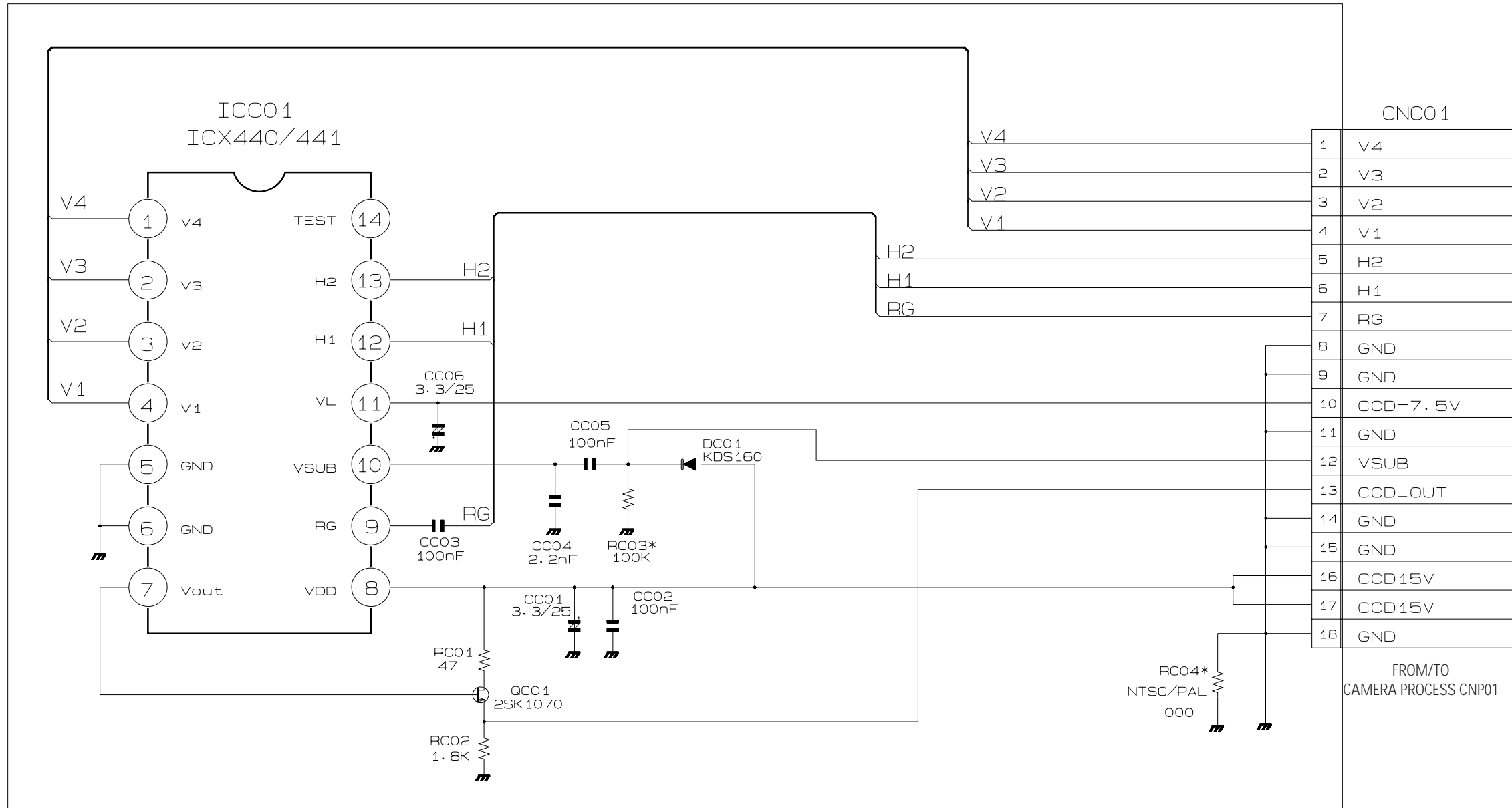
10-10 Camera Memory 1 (Main PCB)



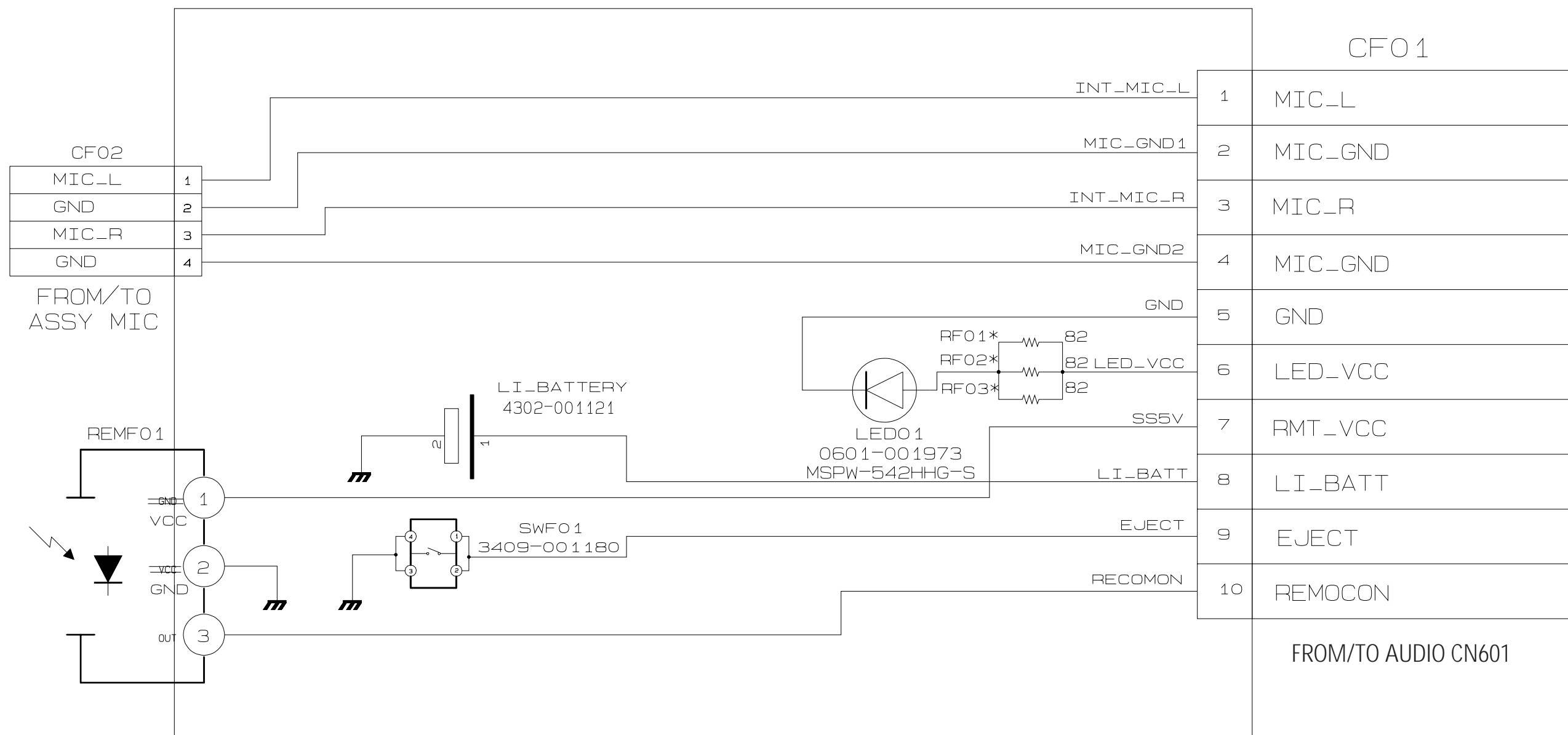
### 10-11 Camera Memory 2 (Main PCB)



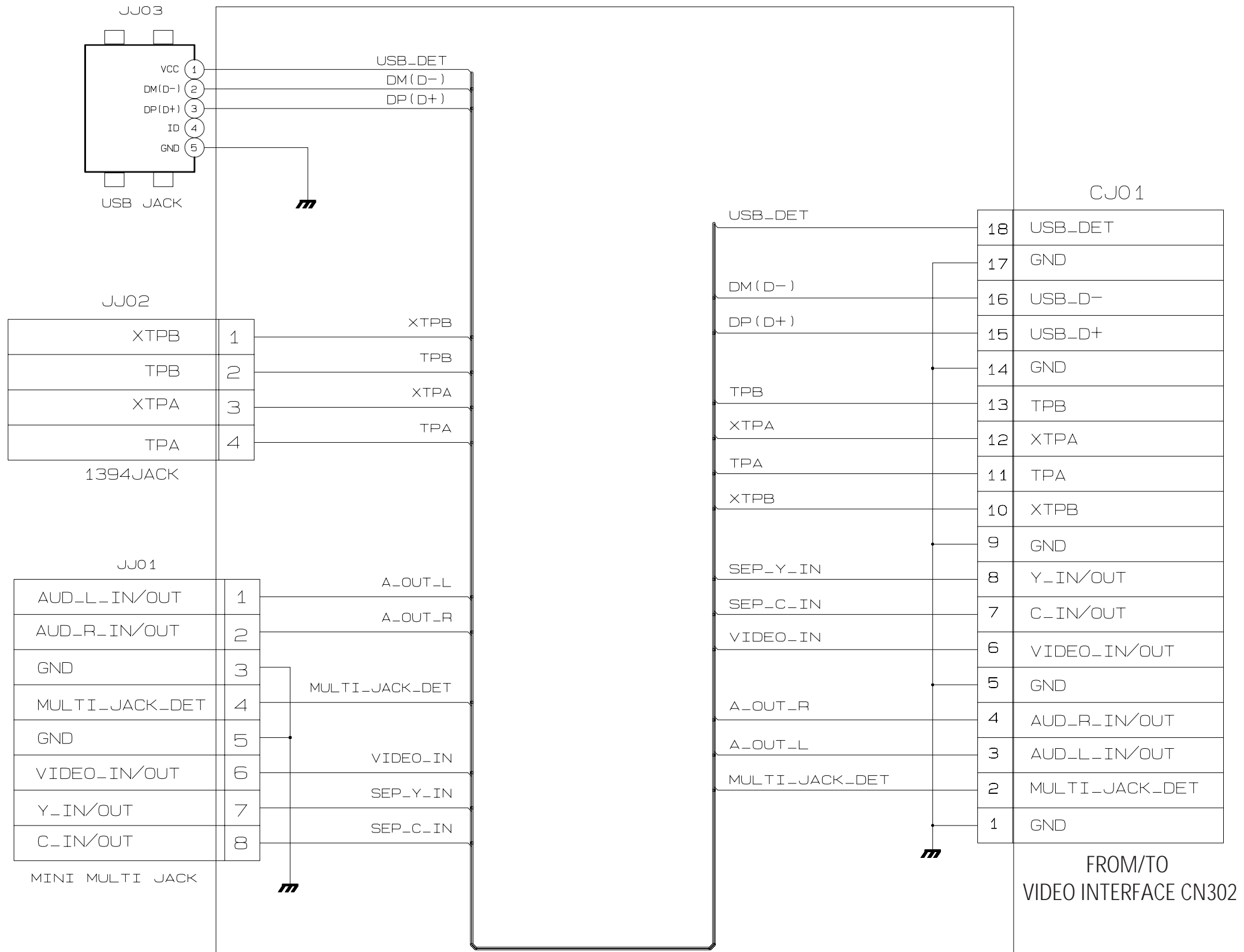
10-12 CCD (CCD PCB)



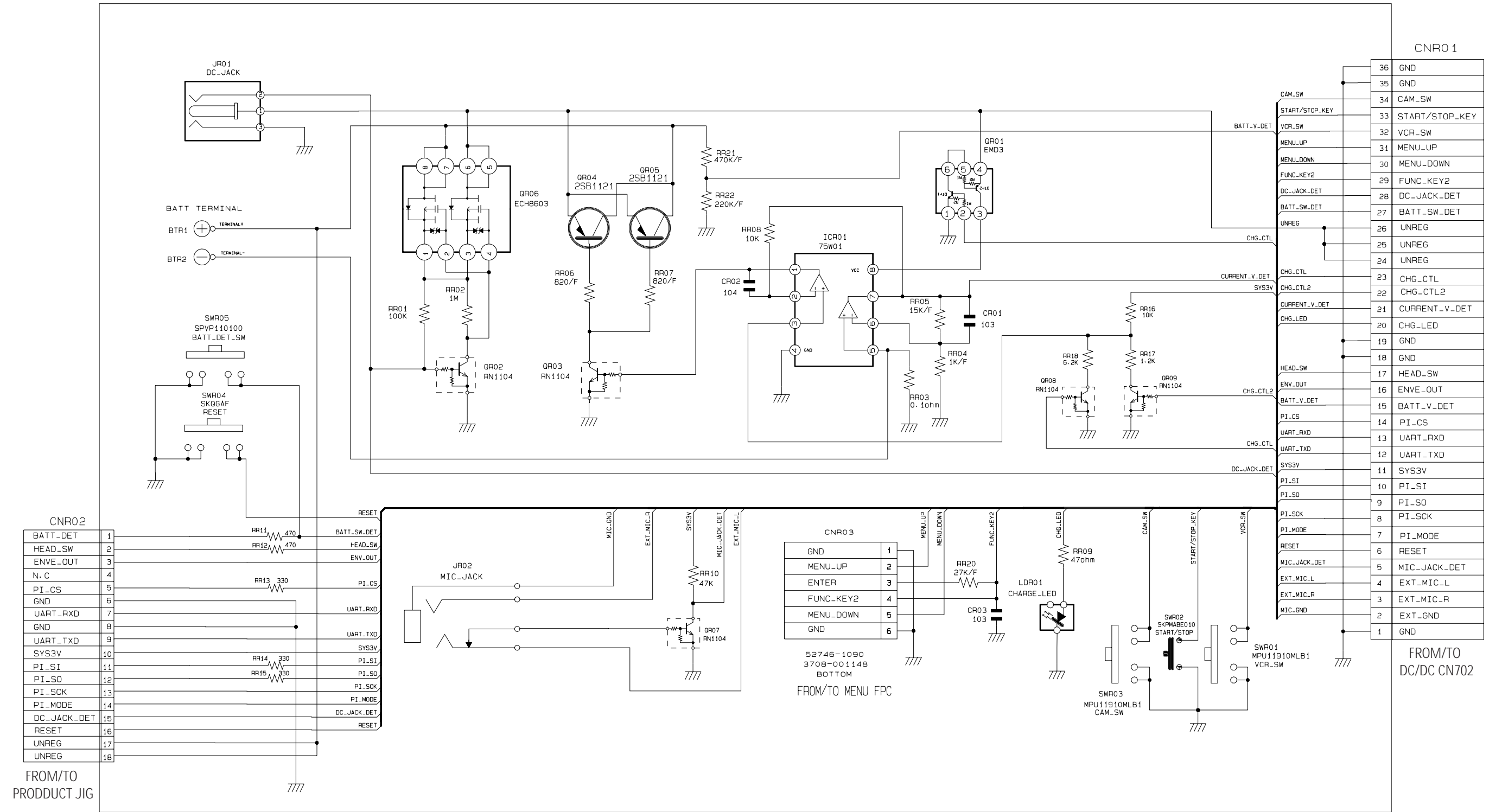
10-13 Front (Front PCB)



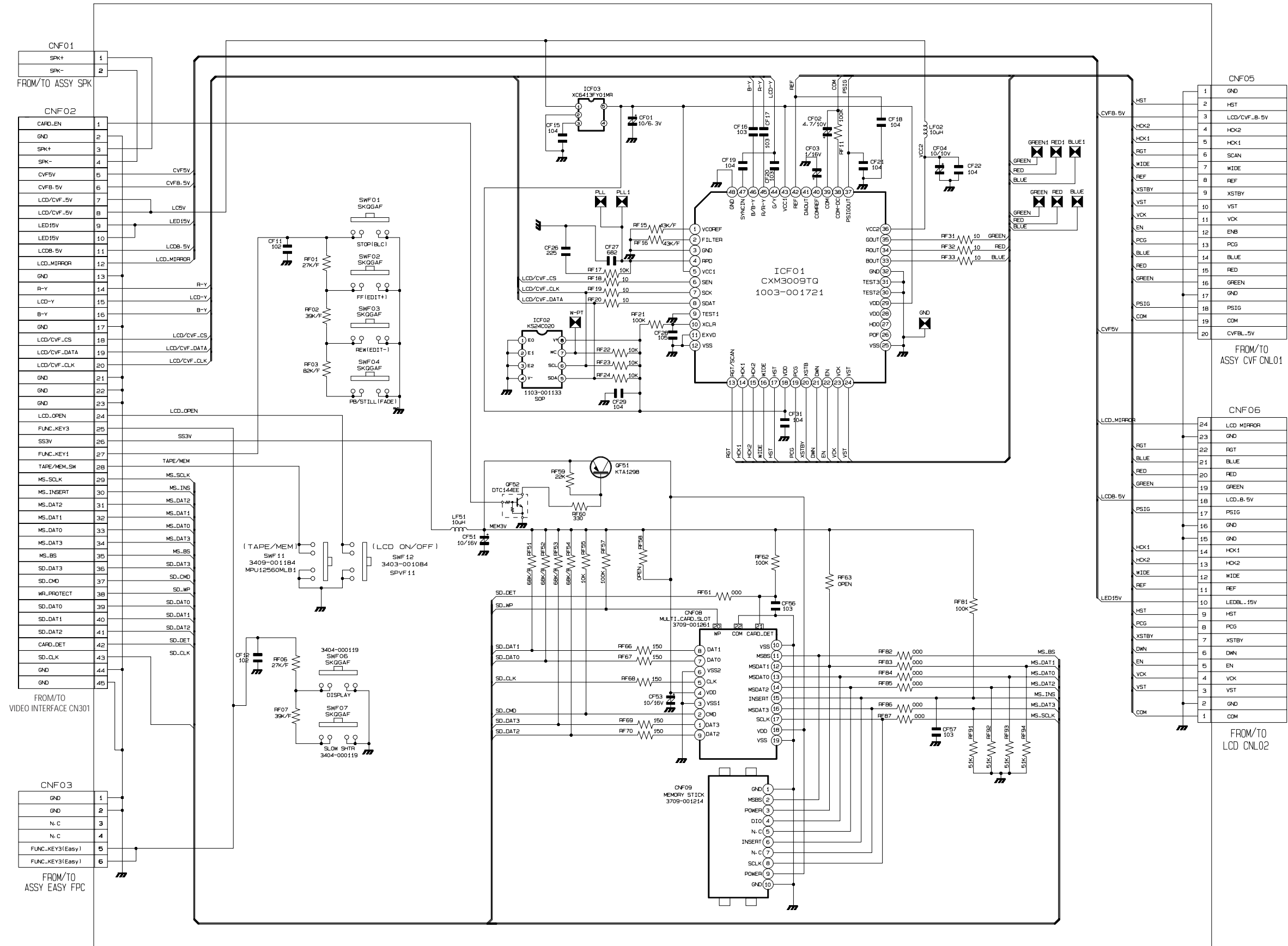
10-14 Jack (Jack PCB)



10-15 Rear (Rear PCB)

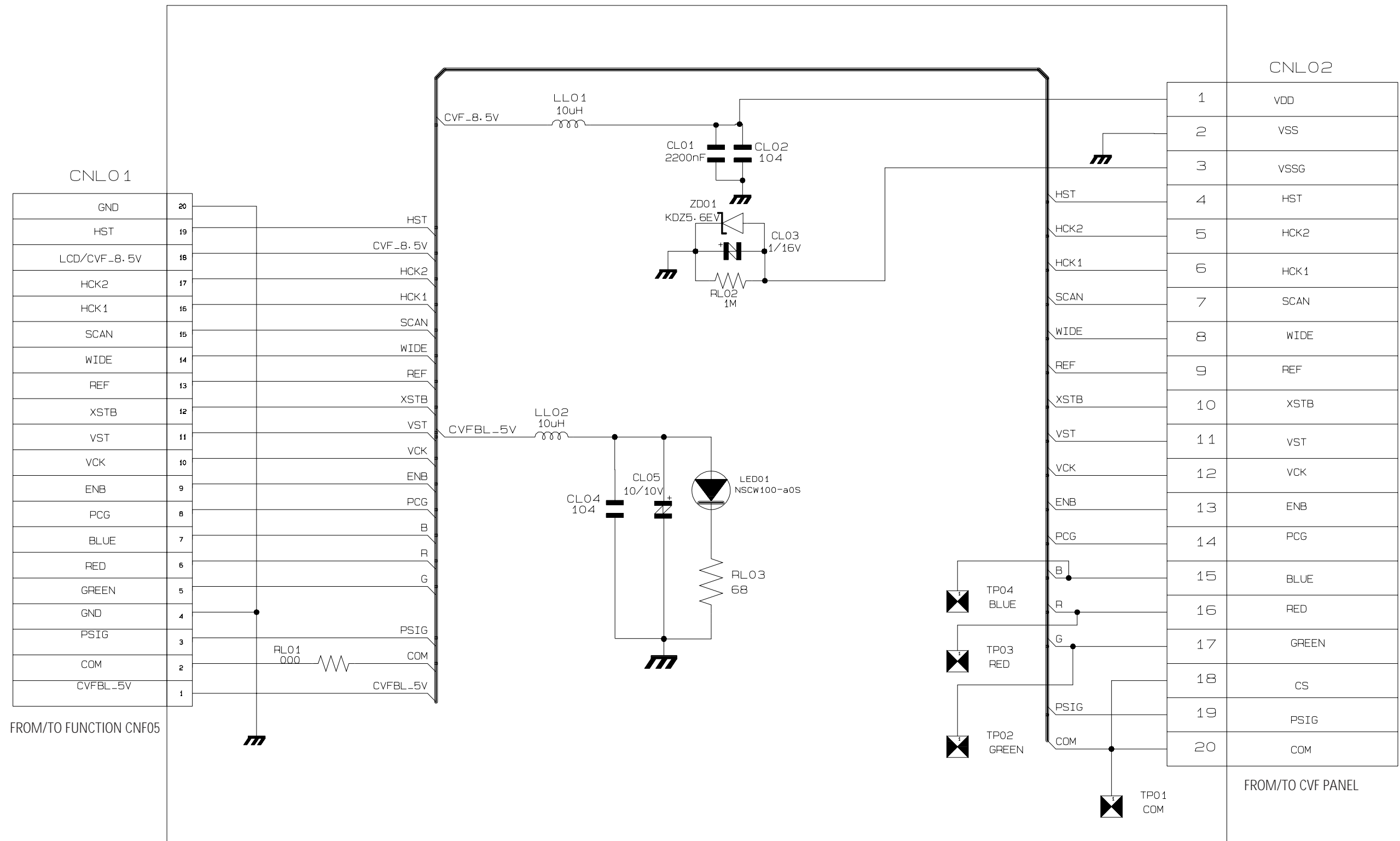


10-16 Function (Function PCB)

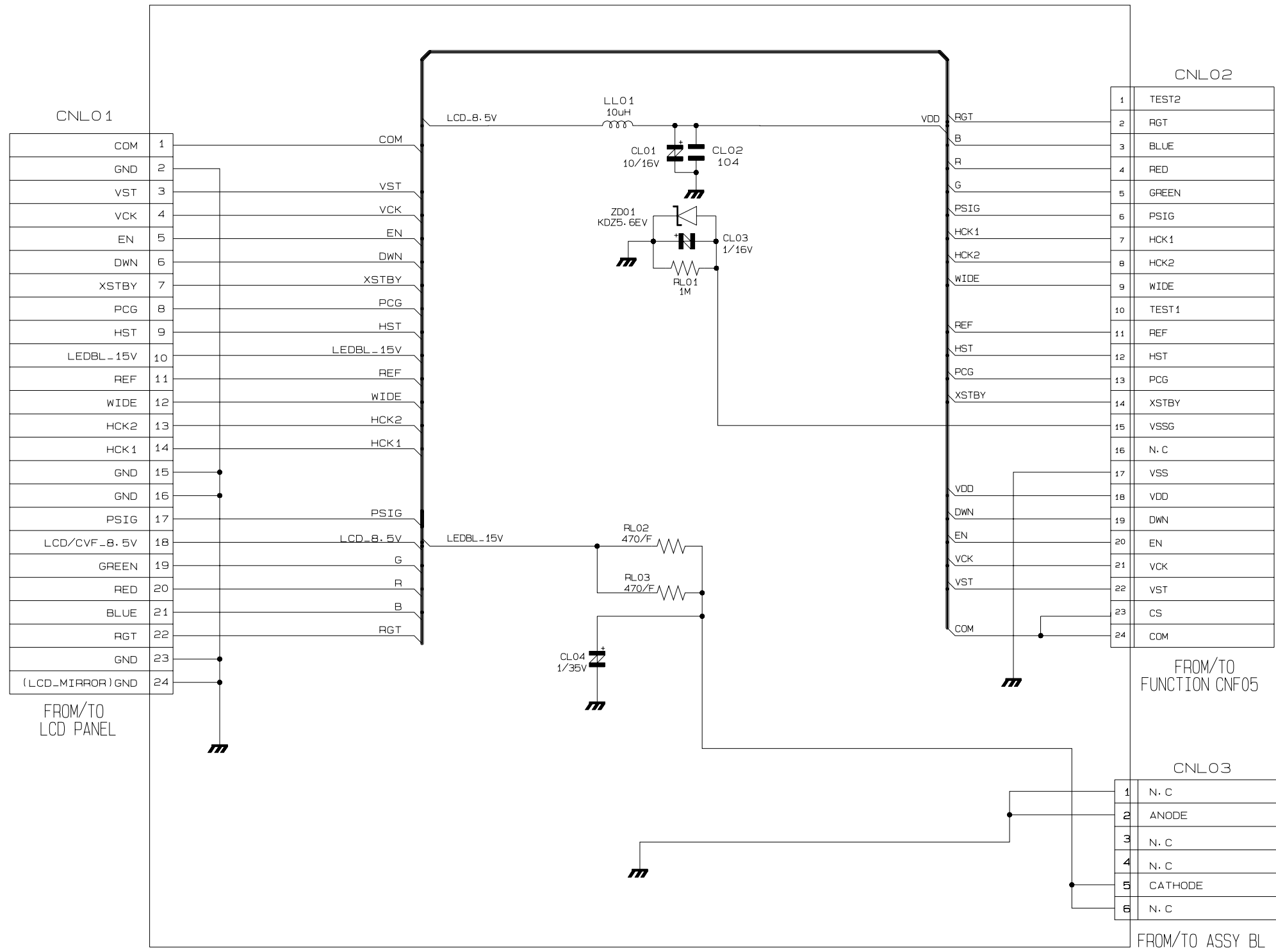




10-17 CVF (CVF PCB)



10-18 LCD (LCD PCB)



## MEMO