

# SECTION 4 CHARTS AND DIAGRAMS

## NOTES OF SCHEMATIC DIAGRAM

### Safety precautions

The Components identified by the symbol are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

### 1. Units of components on the schematic diagram

Unless otherwise specified.

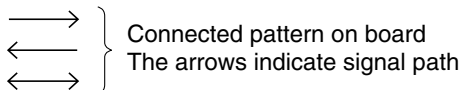
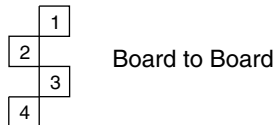
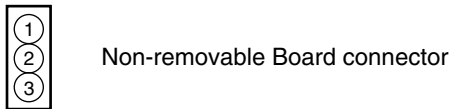
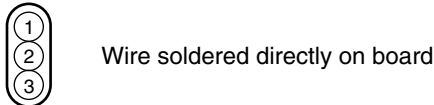
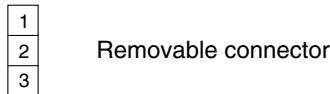
- 1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).  
Chip resistors are 1/16 W.  
K: K $\Omega$  (1000 $\Omega$ ), M: M $\Omega$  (1000K $\Omega$ )
- 2) All capacitance values are in  $\mu$ F, (P: PF).
- 3) All inductance values are in  $\mu$ H, (m: mH).
- 4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

### 2. Indications of control voltage

AUX : Active at high.

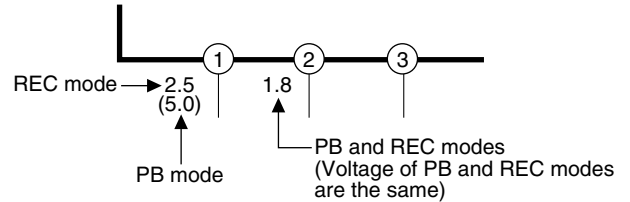
$\overline{\text{AUX}}$  or AUX(L) : Active at low.

### 3. Interpreting Connector indications



### 4. Voltage measurement

- 1) Regulator (DC/DC CONV) circuits  
REC : Colour bar signal.  
PB : Alignment tape (Colour bar).  
— : Unmeasurable or unnecessary to measure.
- 4) Indication on schematic diagram  
Voltage Indications for REC and PB mode on the schematic diagram are as shown below.



**Note:** If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

### 5. Signal path Symbols

The arrows indicate the signal path as follows.

**NOTE :** The arrow is DVC unique object.

- Playback signal path
- Playback and recording signal path
- Recording signal path (including E-E signal path)
- Capstan servo path
- Drum servo path

(Example)

- Playback R-Y signal path
- Recording Y signal path

### 6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



### 7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.



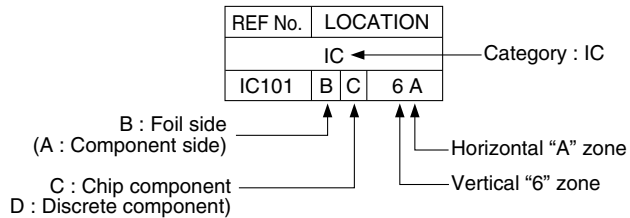
## CIRCUIT BOARD NOTES

### 1. Foil and Component sides

- 1) Foil side (B side) :  
Parts on the foil side seen from foil face (pattern face) are indicated.
- 2) Component side (A side) :  
Parts on the component side seen from component face (parts face) indicated.

### 2. Parts location guides

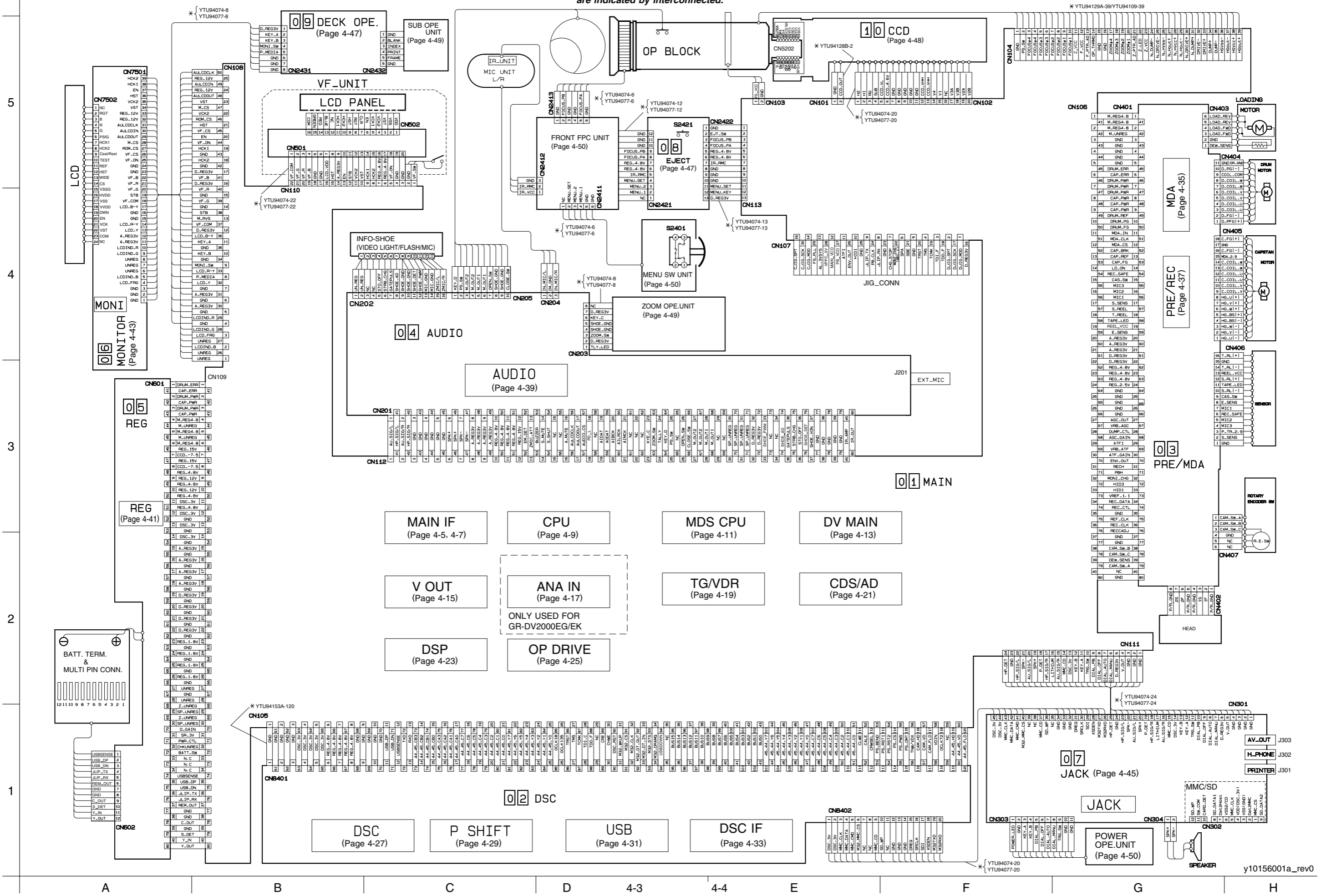
Parts location are indicated by guide scale on the circuit board.



**Note:** For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

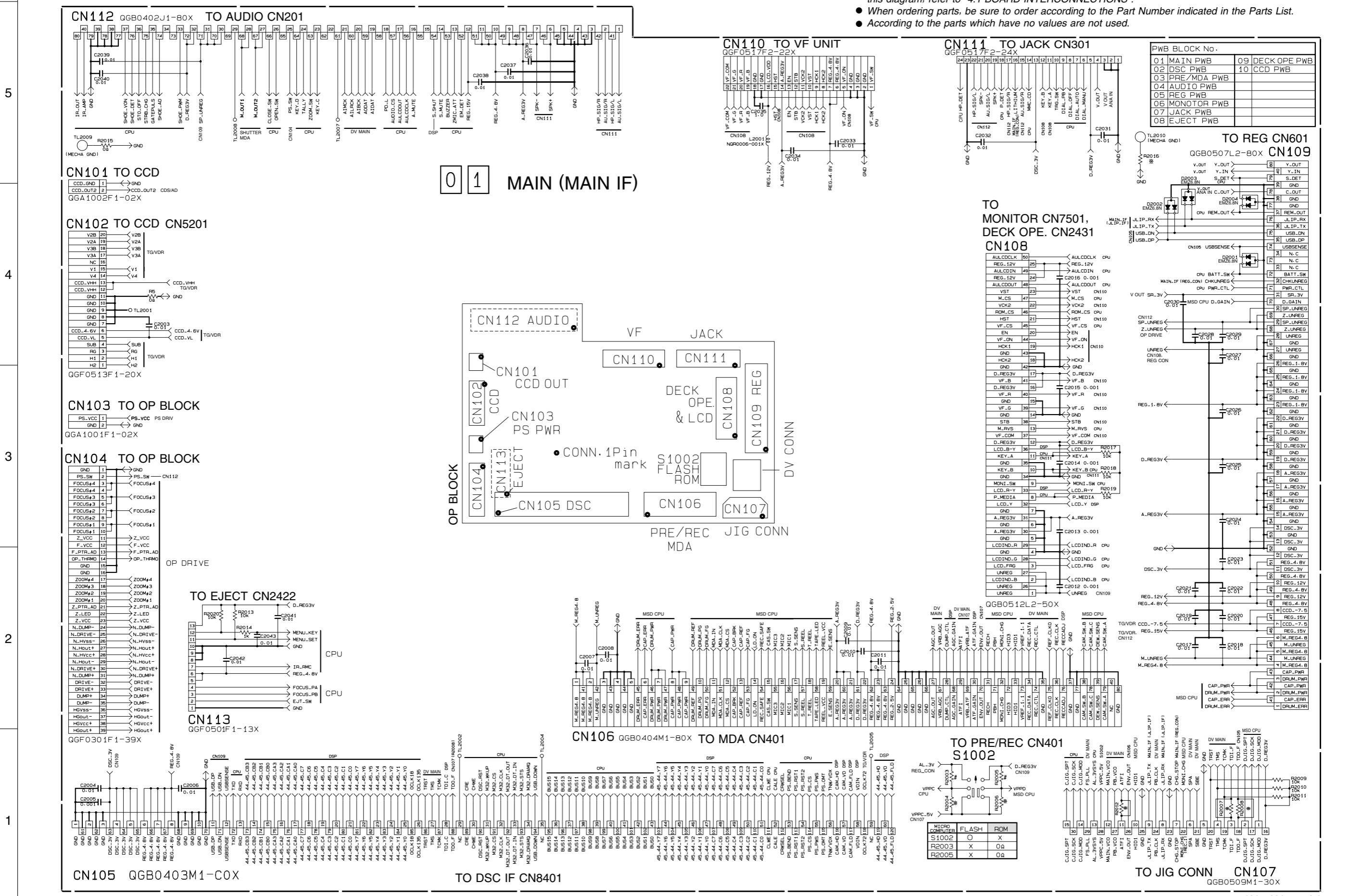
# 4.1 BOARD INTERCONNECTIONS

NOTE) \* : The number of patch cords are indicated by interconnected.

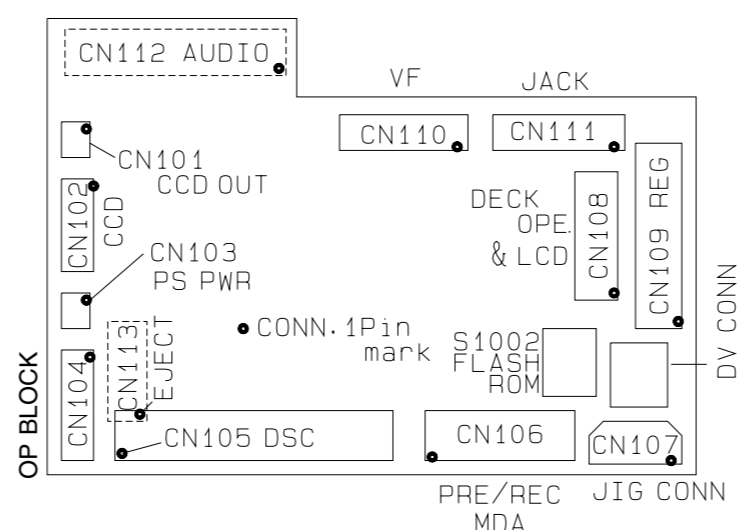


4.2 MAIN IF SCHEMATIC DIAGRAM (1/2)

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.  
 ● According to the parts which have no values are not used.



01 MAIN (MAIN IF)



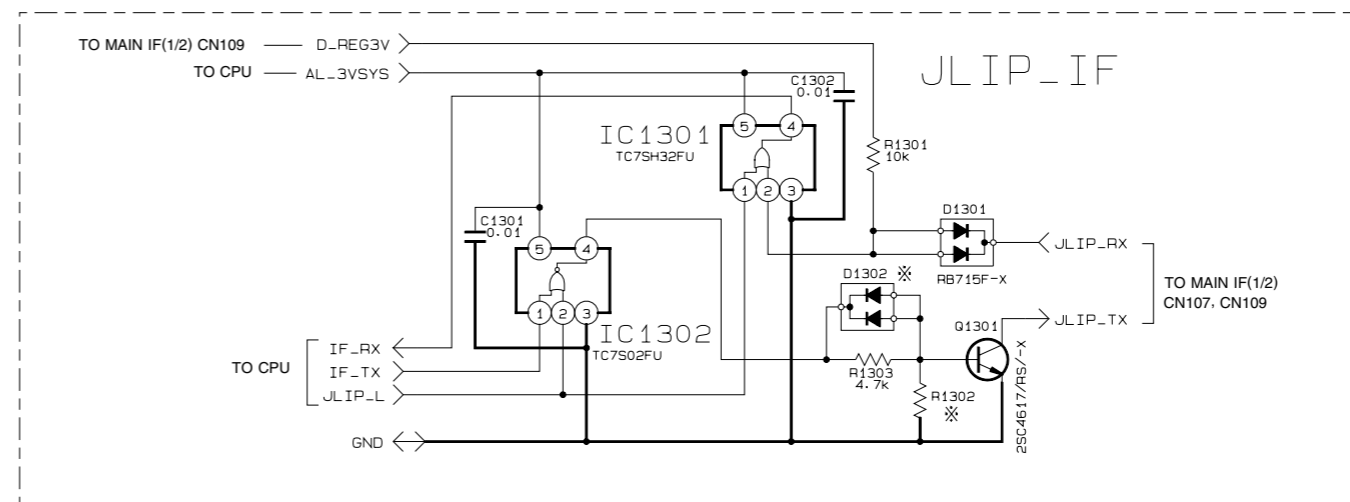
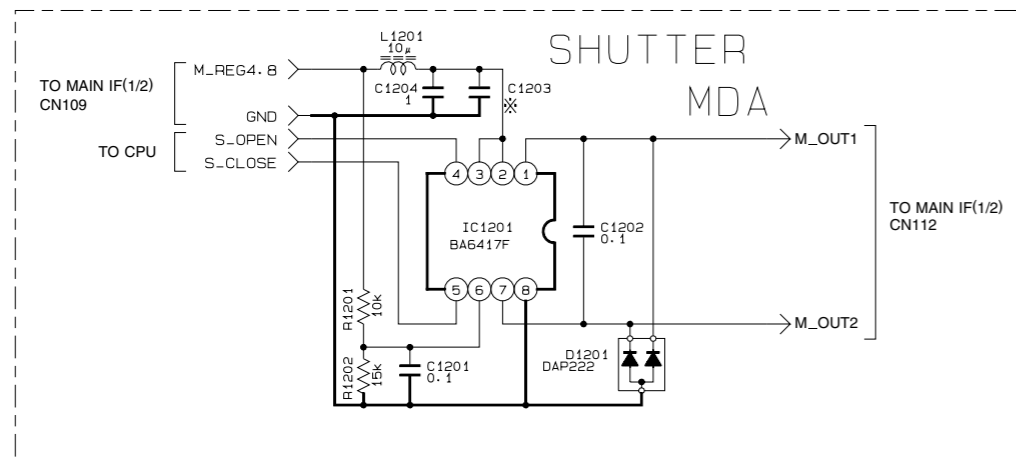
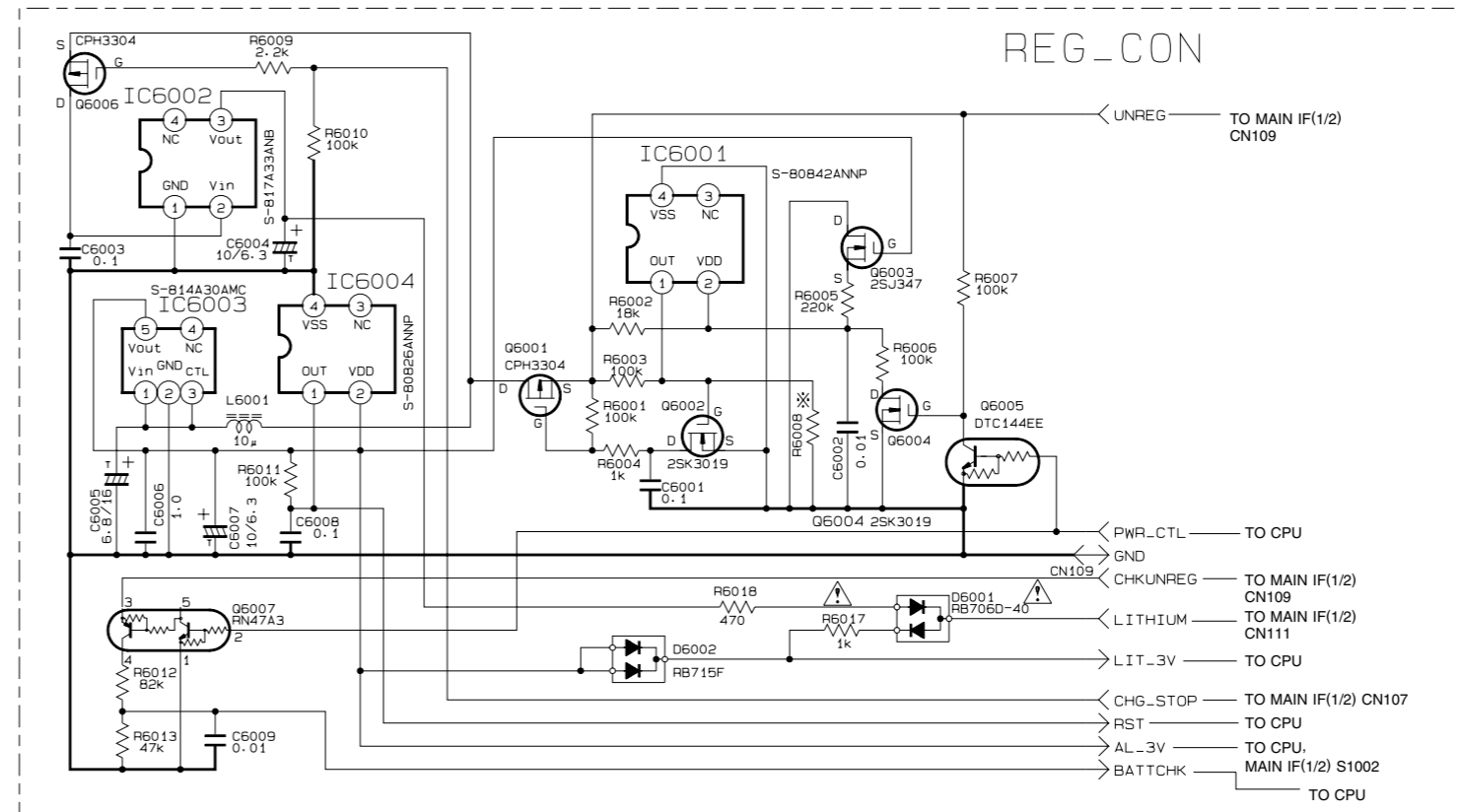
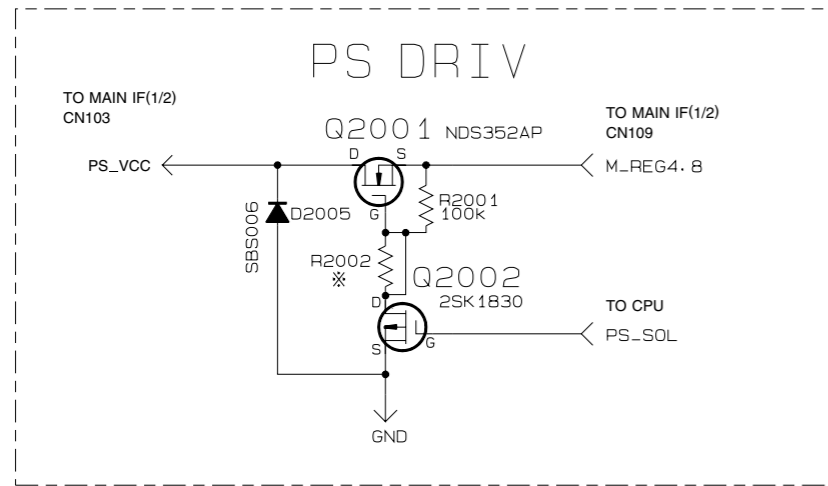
MICRO COMPUTER	FLASH	ROM
S1002	O	X
R2003	X	0
R2005	X	0

PWB BLOCK No.	
01	MAIN PWB
02	DSC PWB
03	PRE/MDA PWB
04	AUDIO PWB
05	REG PWB
06	MONOTOR PWB
07	JACK PWB
08	EJECT PWB
09	DECK OPE PWB
10	CCD PWB

4.3 MAIN IF SCHEMATIC DIAGRAM (2/2)

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.  
 ● According to the parts which have no values are not used.

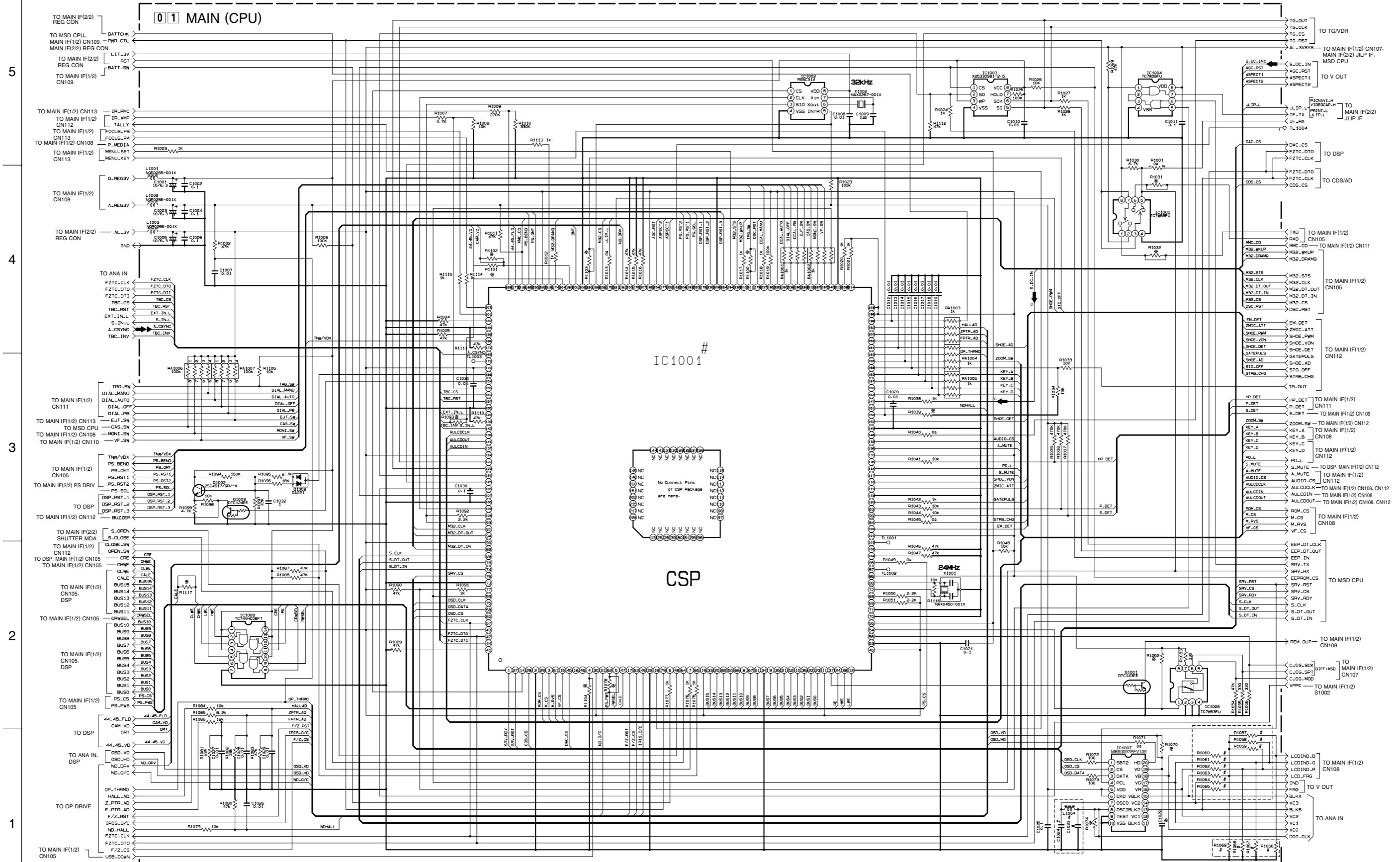
01 MAIN (MAIN IF)



\* NO WEAR

#### 4.4 CPU SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- When ordering parts, be sure to order according to the Part Number indicated in the Parts List.
  - According to the parts which have no values are not used.



※ NO WEAR

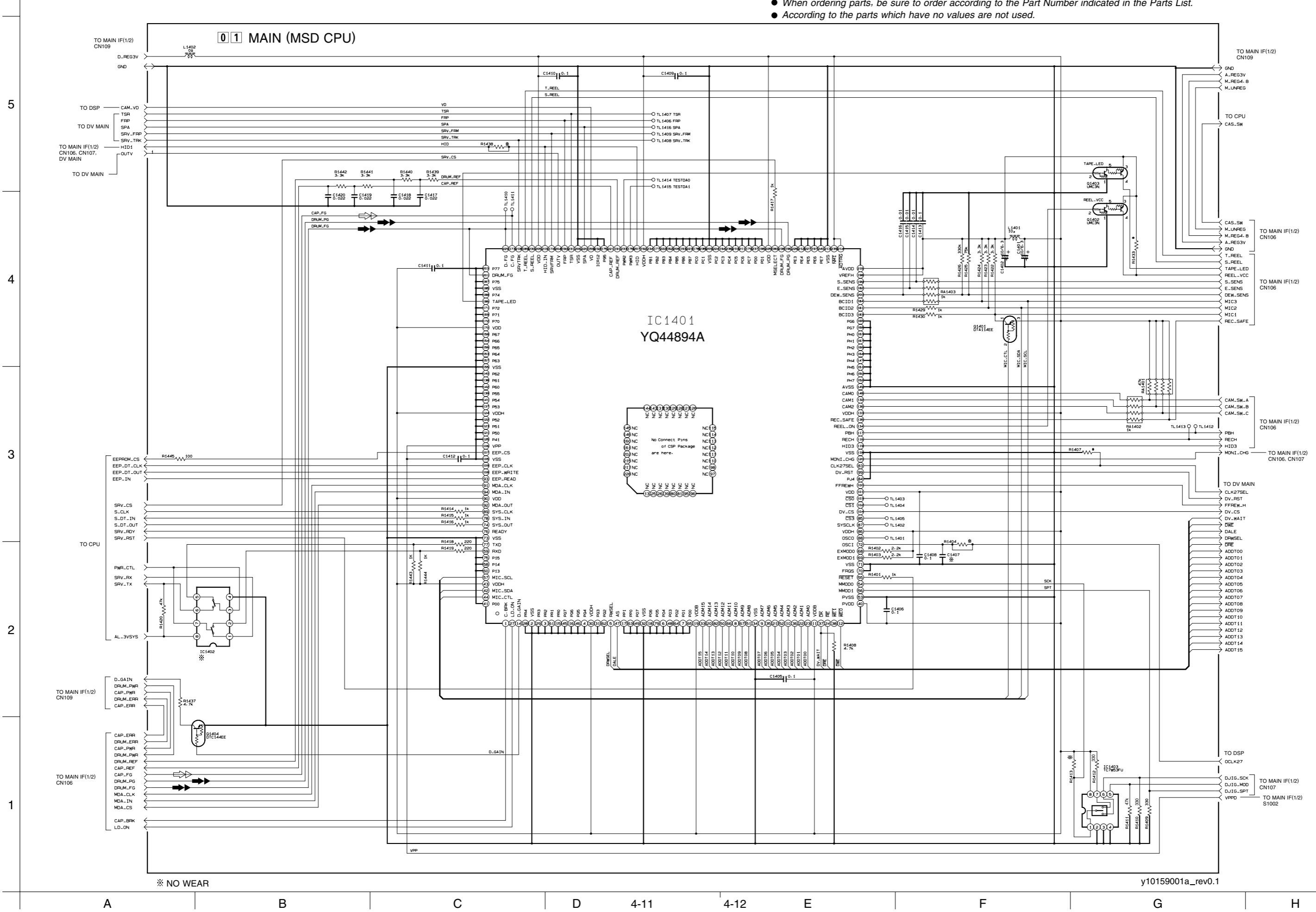
# EXCHANGE PARTS LIST

MODEL	SYMBOL	IC1001	L1004	C1023	C1024	R1057-R1059	R1060-R1062	R1063-R1065	R1066-R1069
GR-DV1800EG/EK	YQ44895A		39 μ	12p	33p	750	1k	0	※
GR-DV2000EG/EK	YQ44893A		※	※	※	※	※	※	0

y10158001a\_rev0.1

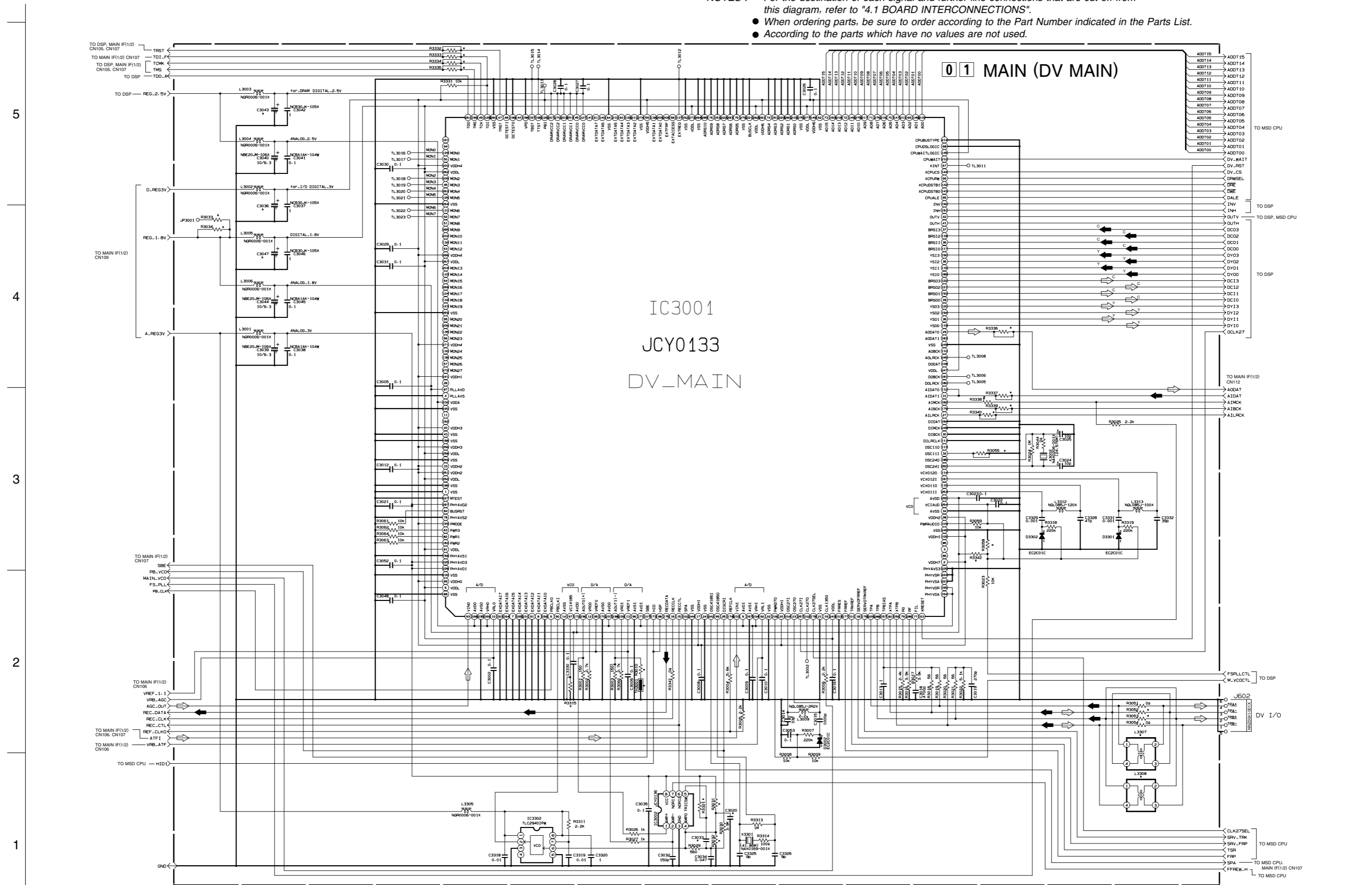
# 4.5 MSD CPU SCHEMATIC DIAGRAM

- NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
  - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.
  - According to the parts which have no values are not used.



4.6 DV MAIN SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.  
 ● According to the parts which have no values are not used.



\* NO WEAR # EXCHANGE PARTS LIST

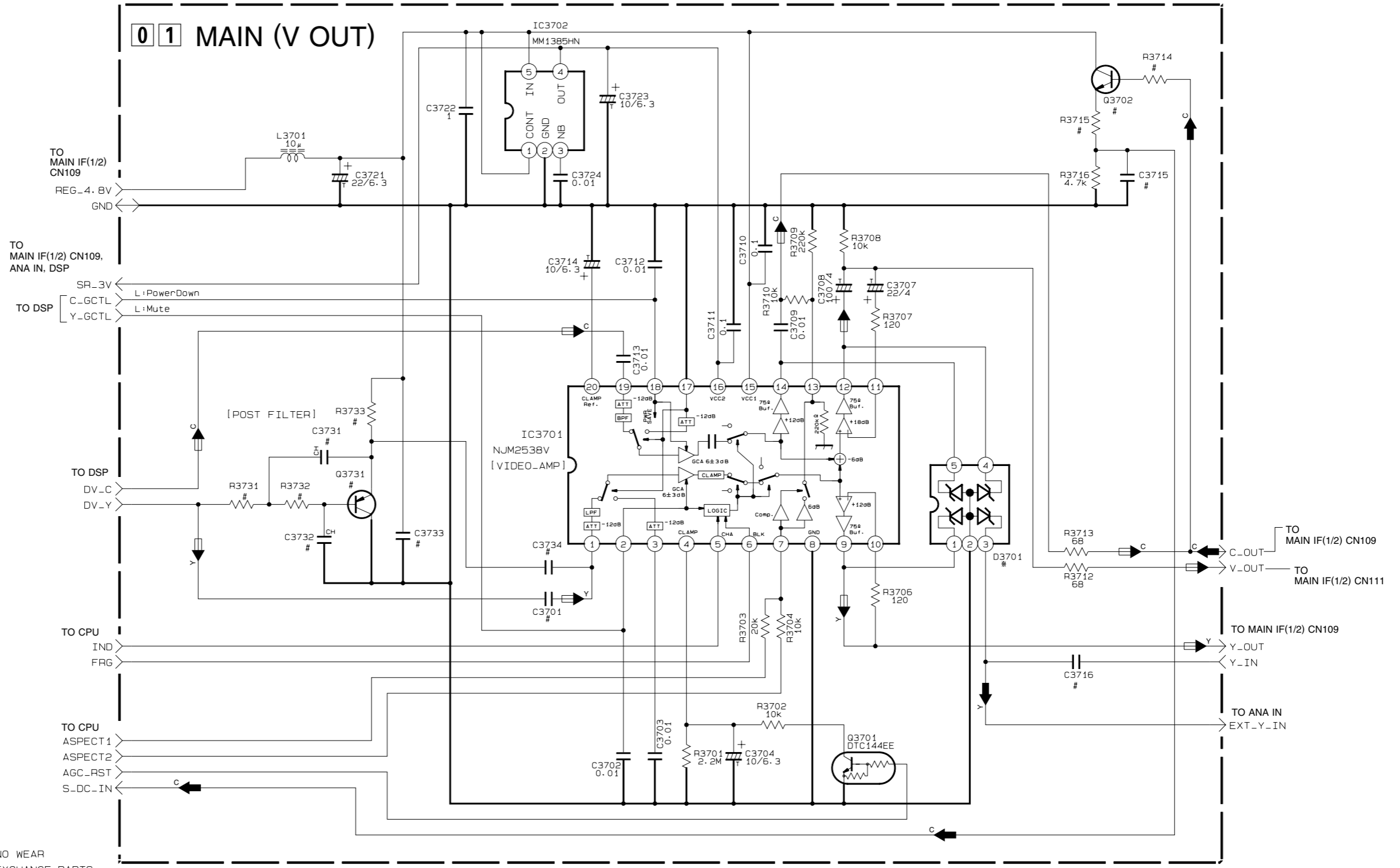
	DOMESTIC	US	PAL
R3338	22Ω	58Ω	22Ω

y10160001a\_rev0.1



4.7 V OUT SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.  
 ● According to the parts which have no values are not used.



※ NO WEAR  
 # EXCHANGE PARTS

○ : GR-DV2000EG/EK  
 × : GR-DV1800EG/EK

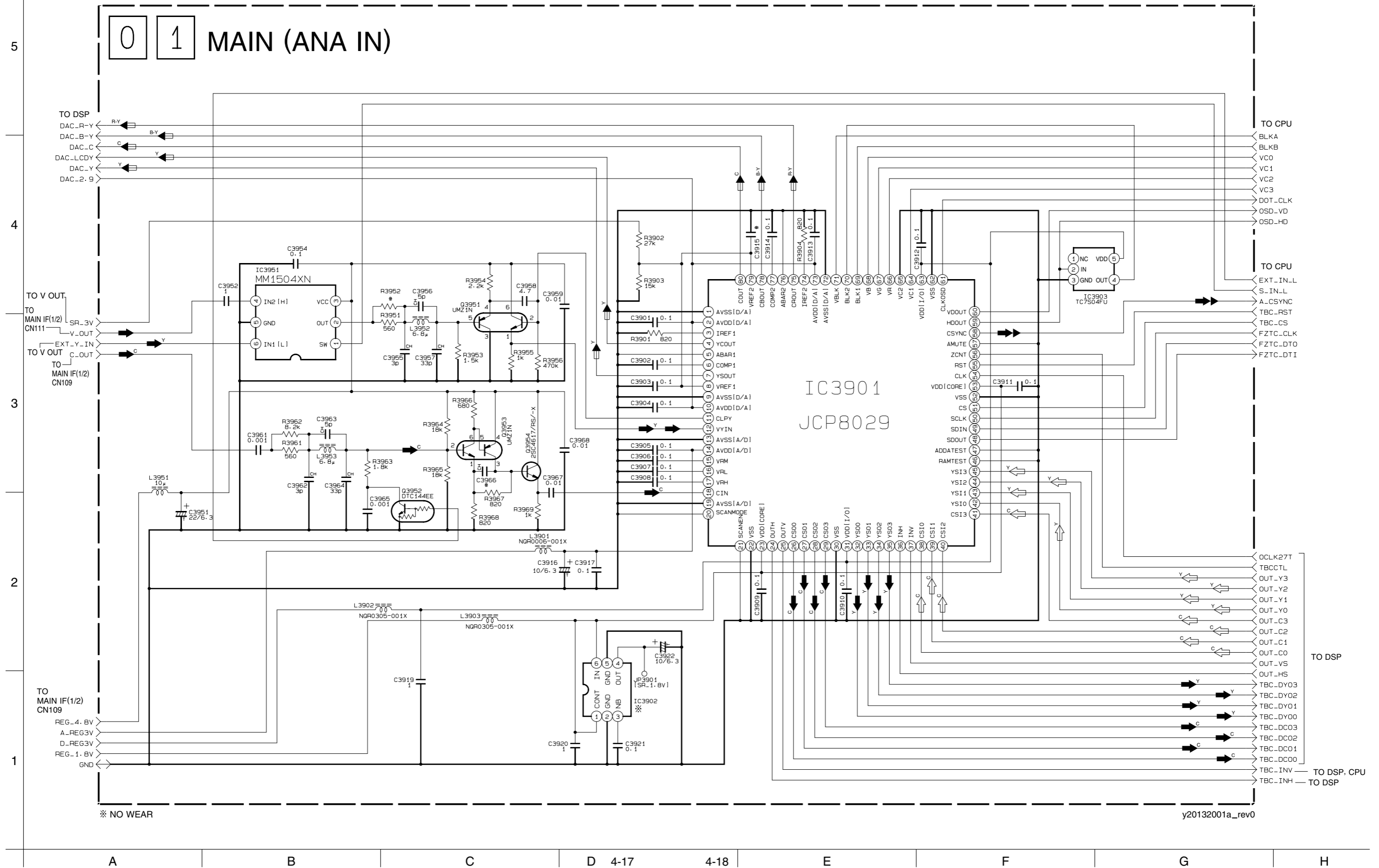
# EXCHANGE PARTS LIST

	ANALOG_IN			ANALOG_IN	
	○	×		○	×
Q3702	2SC4617/RS/-X	※	C3701	0.1	※
Q3731	※	2SA1774/RS/-X	C3715	0.01	※
R3714	100	※	C3716	1	※
R3715	4.7k	※	C3731	※	82p
R3731	※	560	C3732	※	15p
R3732	※	560	C3733	※	0.01
R3733	※	2.2k	C3734	※	0.01

y30106001a\_rev1

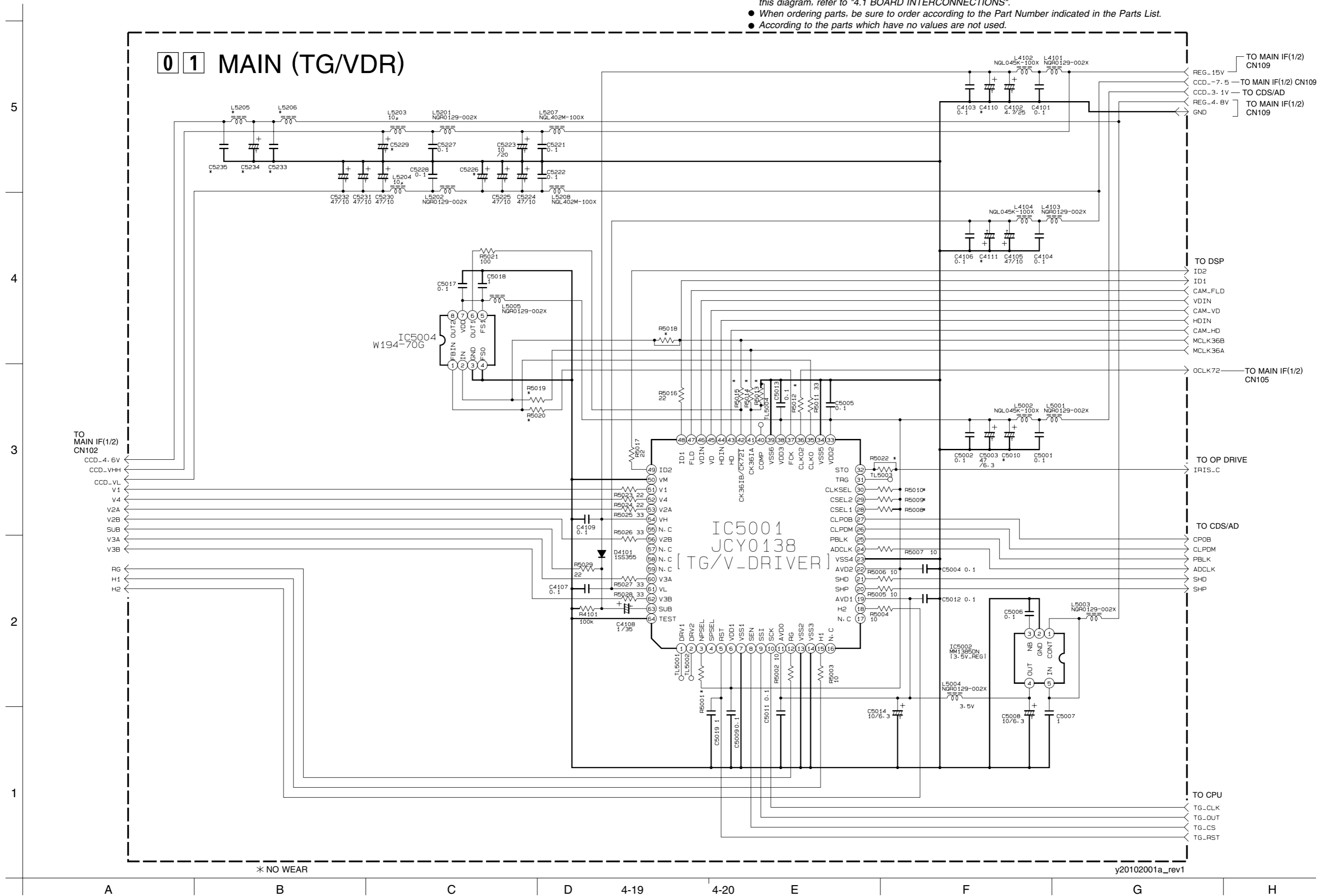
4.8 ANA IN SCHEMATIC DIAGRAM [GR-DV2000EG/EK]

- NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
  - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.
  - According to the parts which have no values are not used.



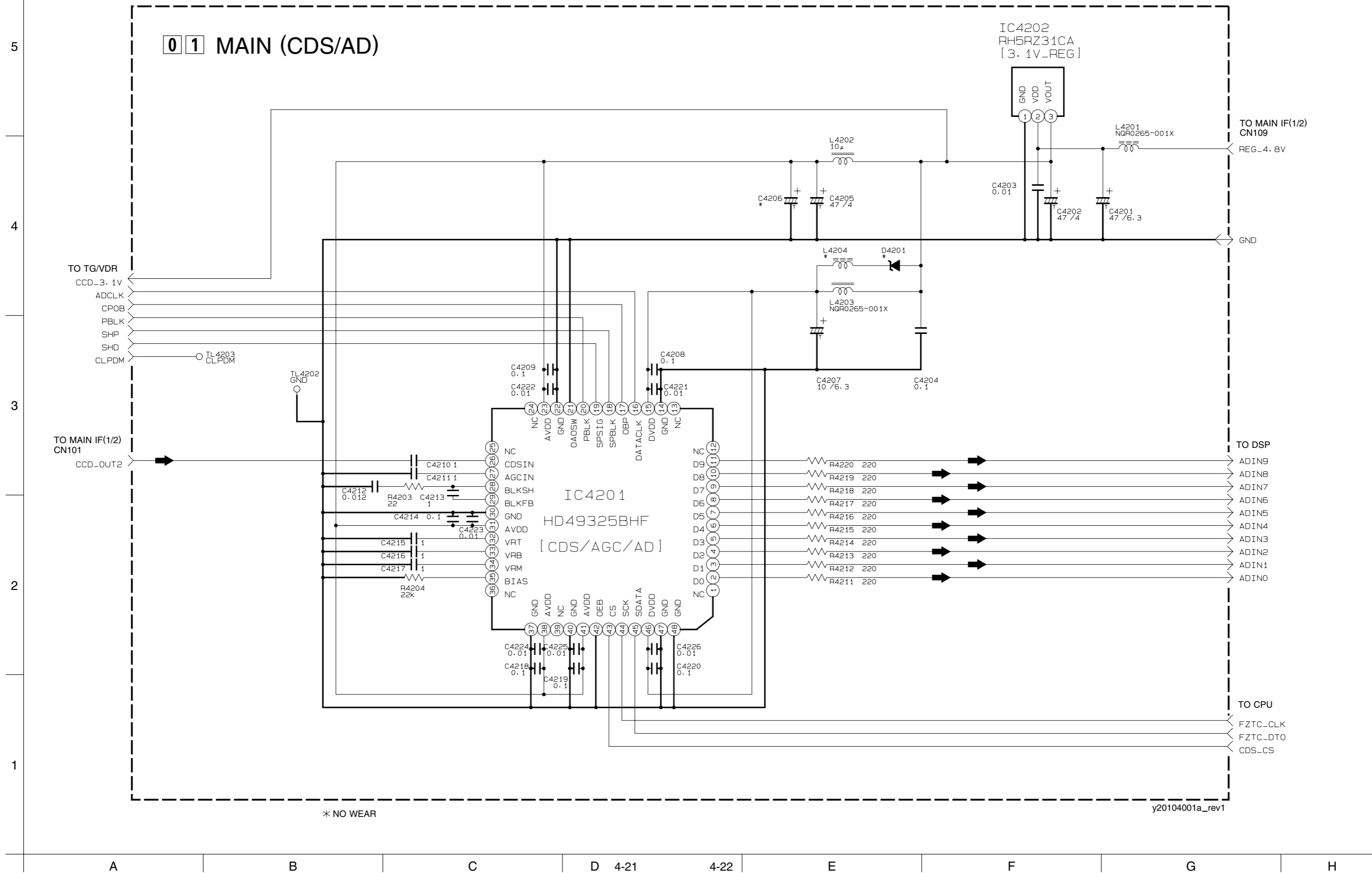
4.9 TG/VDR SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.  
 ● According to the parts which have no values are not used.



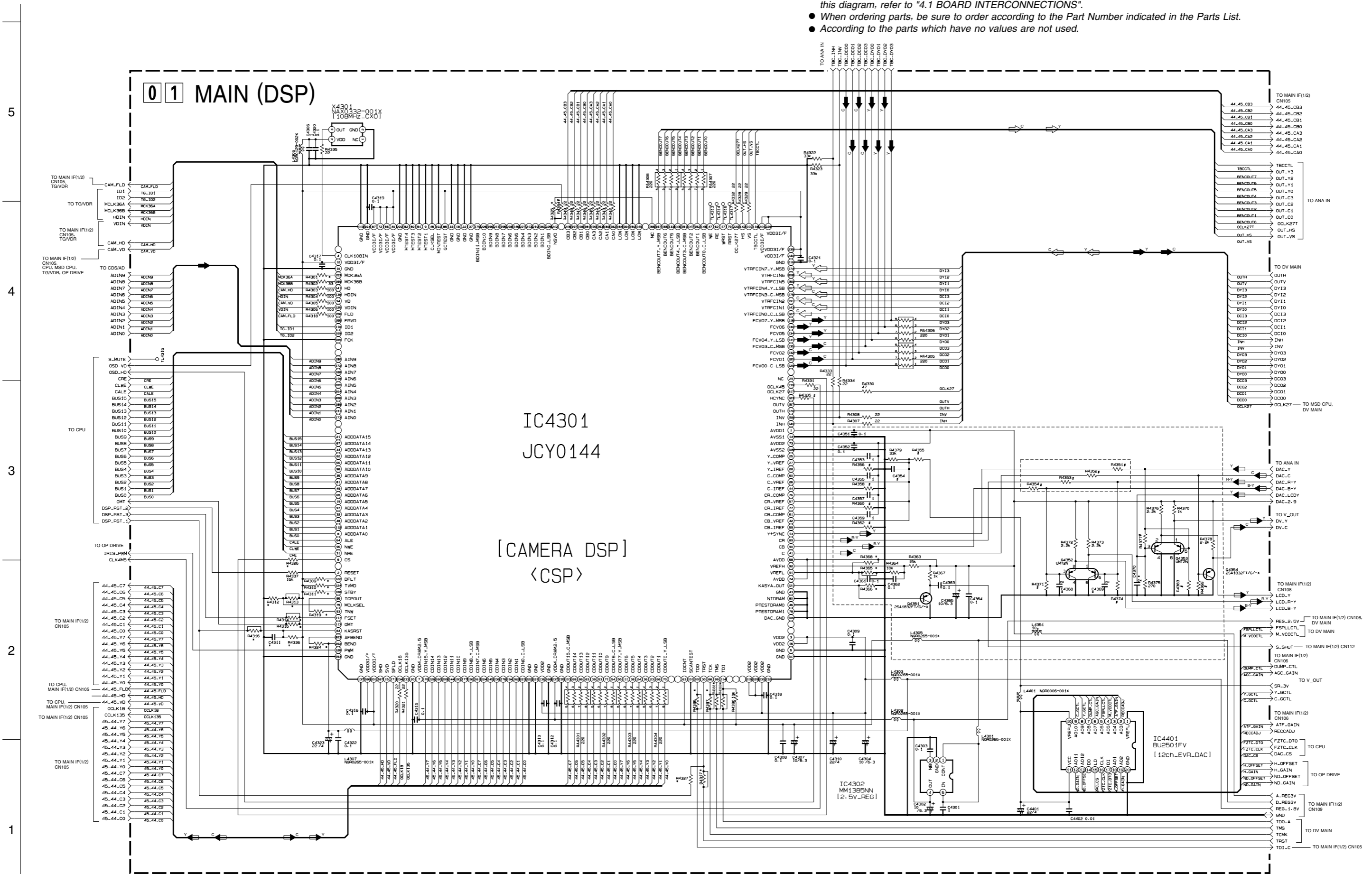
4.10 CDS/AD SCHEMATIC DIAGRAM

- NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
  - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.
  - According to the parts which have no values are not used.



4.11 DSP SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.  
 ● According to the parts which have no values are not used.



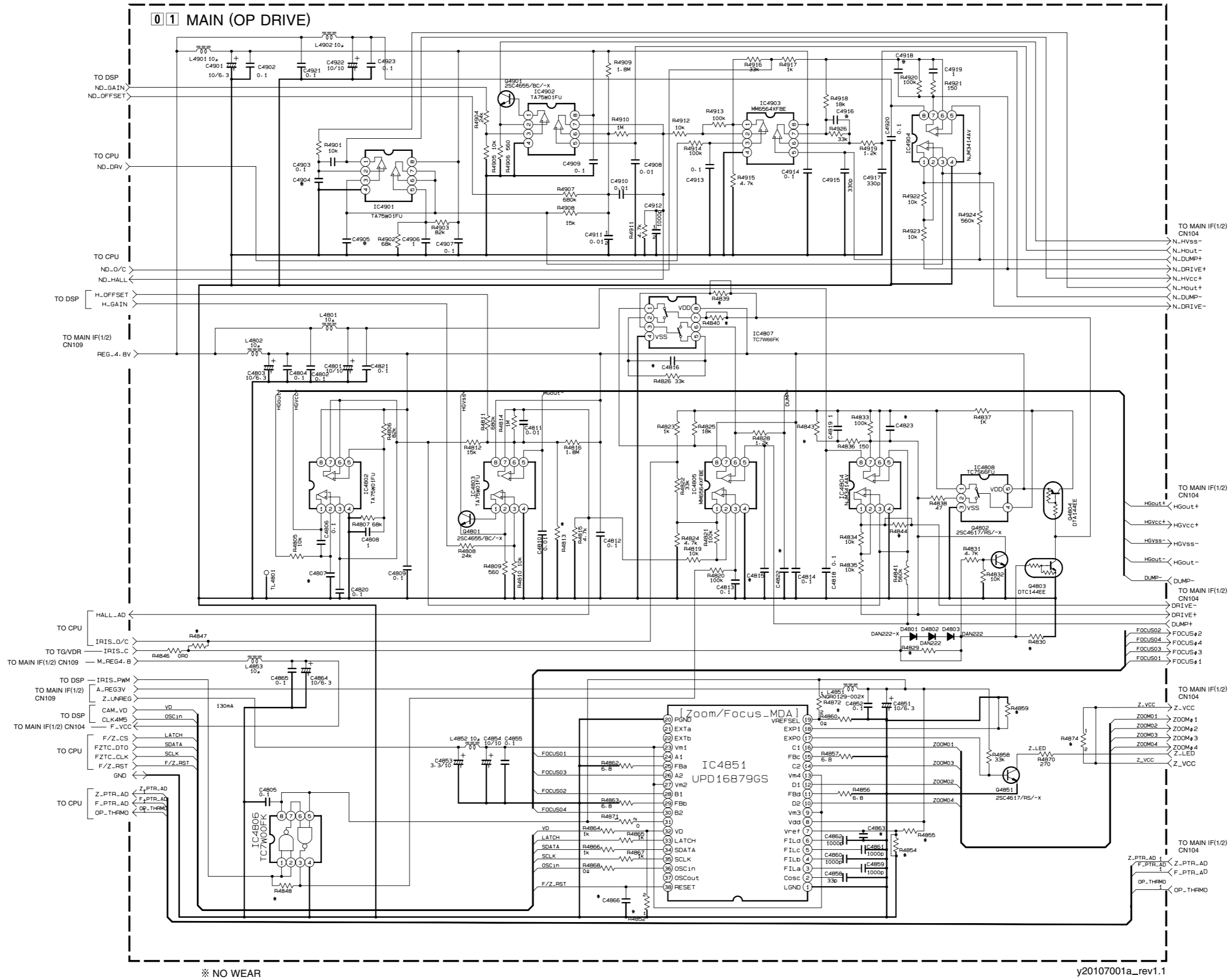
\* NO WEAR # EXCAHNGE PARTS LIST

MODEL	SYMBOL	R4351-R4354	R4355	R4356	R44358	R4360,R4362	R4369	R4371	R4374	R4377	R4383	R4384,R4385	C4354
GR-DV1800EG/EK		0	47k	33k	6.2k	16k	75	130	100	27	*	0	0.1
GR-DV2000EG/EK		*	*	2.7k	2.7k	2.7k	200	200	200	*	270	*	*

y10162001a\_rev0.1

4.12 OP DRIVE SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.  
 ● According to the parts which have no values are not used.

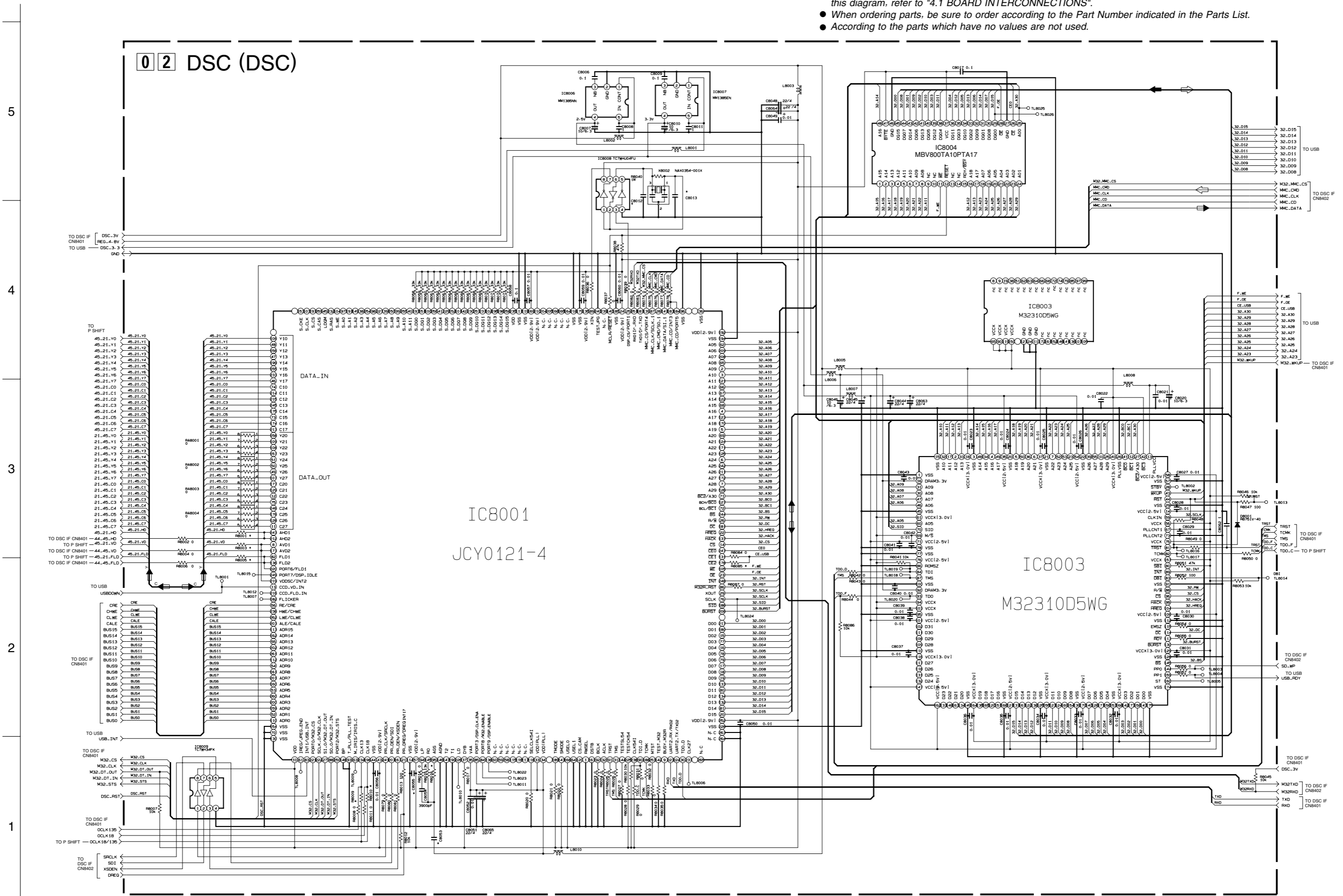


※ NO WEAR

y20107001a\_rev1.1

4.13 DSC SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.  
 ● According to the parts which have no values are not used.

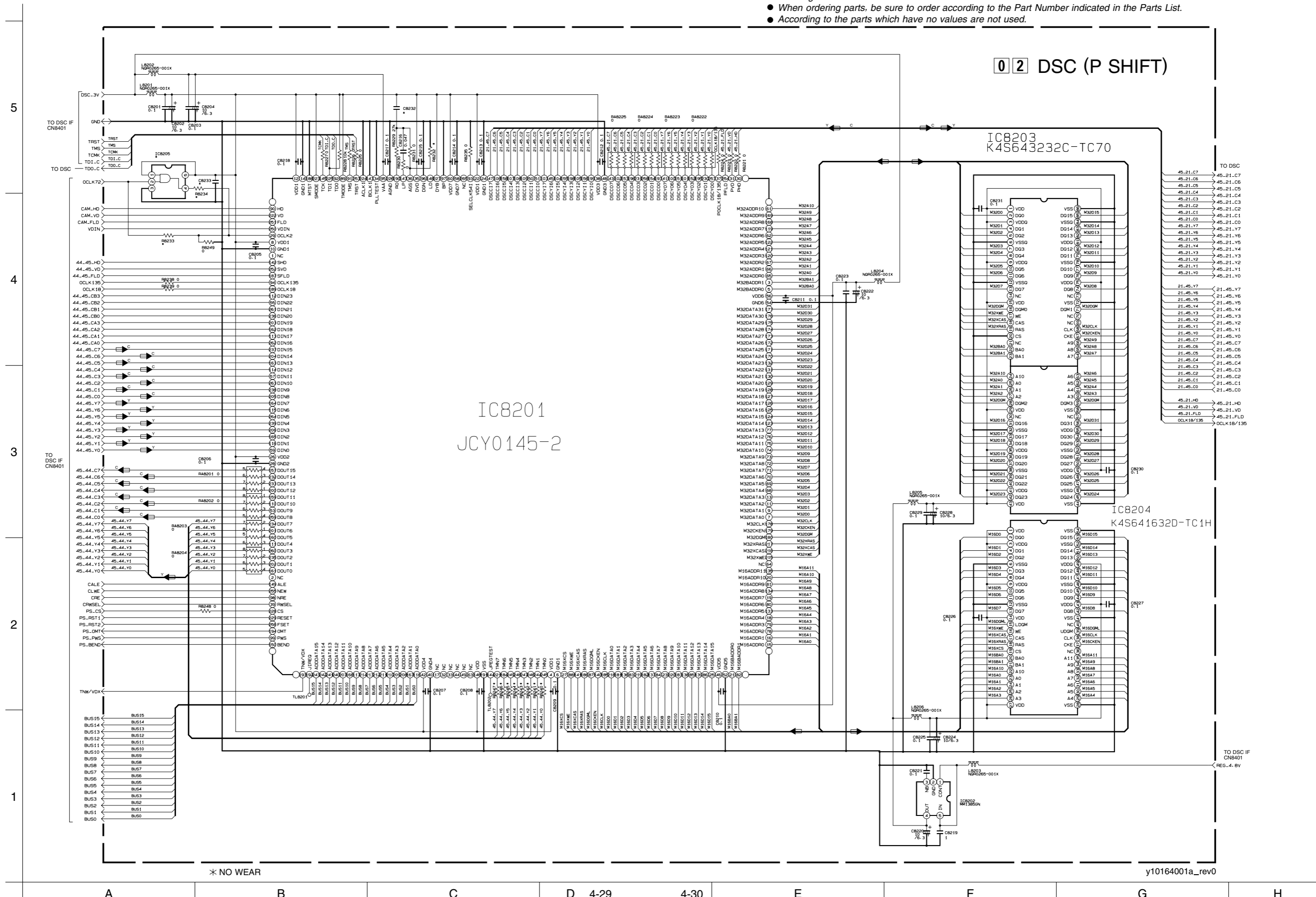


\* NO WEAR

y10163001a\_rev0

### 4.14 P SHIFT SCHEMATIC DIAGRAM

- NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
  - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.
  - According to the parts which have no values are not used.



02 DSC (P SHIFT)

IC8201  
JCY0145-2

IC8203  
K4S643232C-TC70

IC8204  
K4S641632D-TC1H

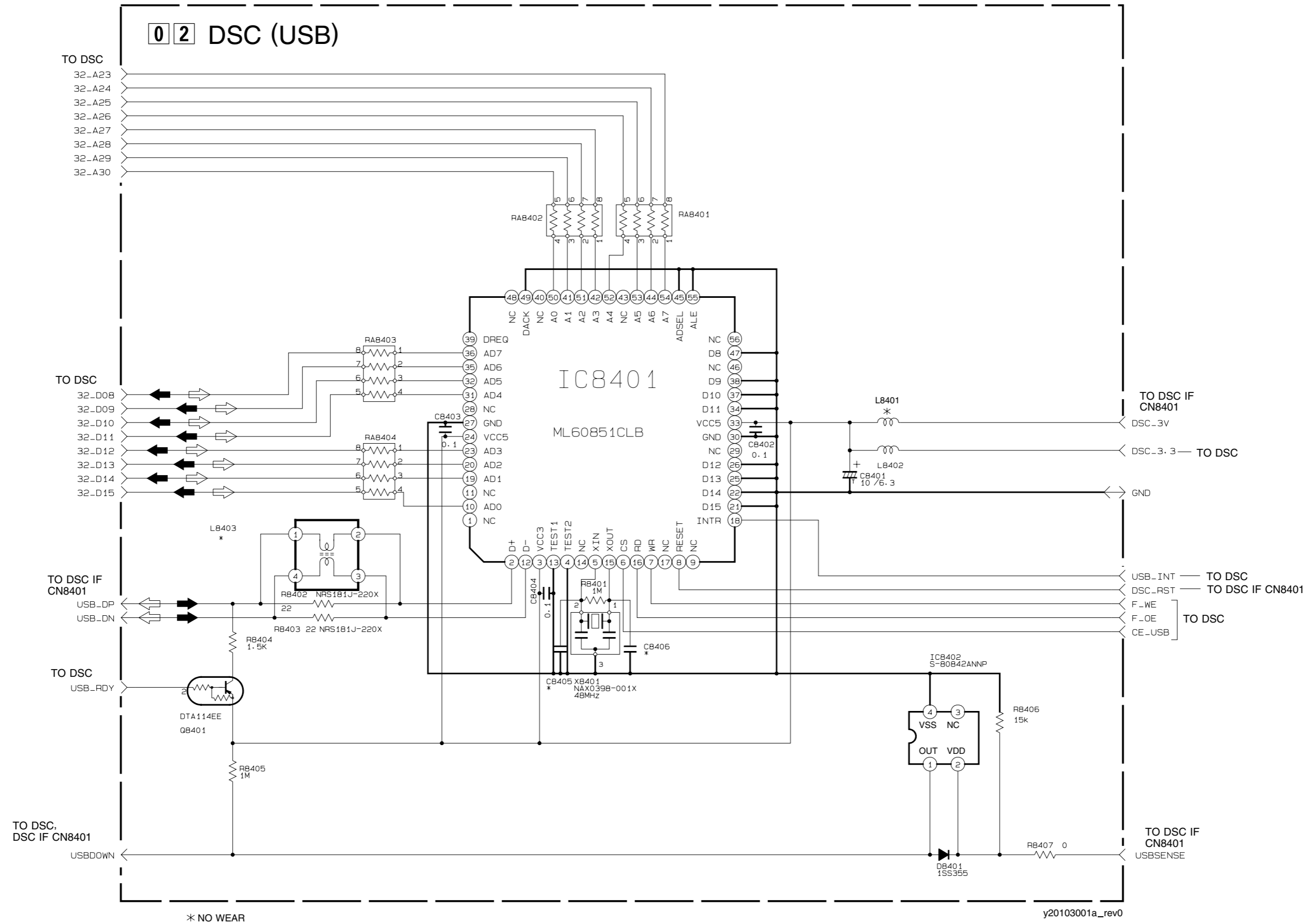
\* NO WEAR

y10164001a\_rev0



### 4.15 USB SCHEMATIC DIAGRAM

- NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
  - When ordering parts, be sure to order according to the Part Number indicated in the 48 Pins Parts List.
  - According to the parts which have no values are not used.



4.16 DSC IF SCHEMATIC DIAGRAM

5

4

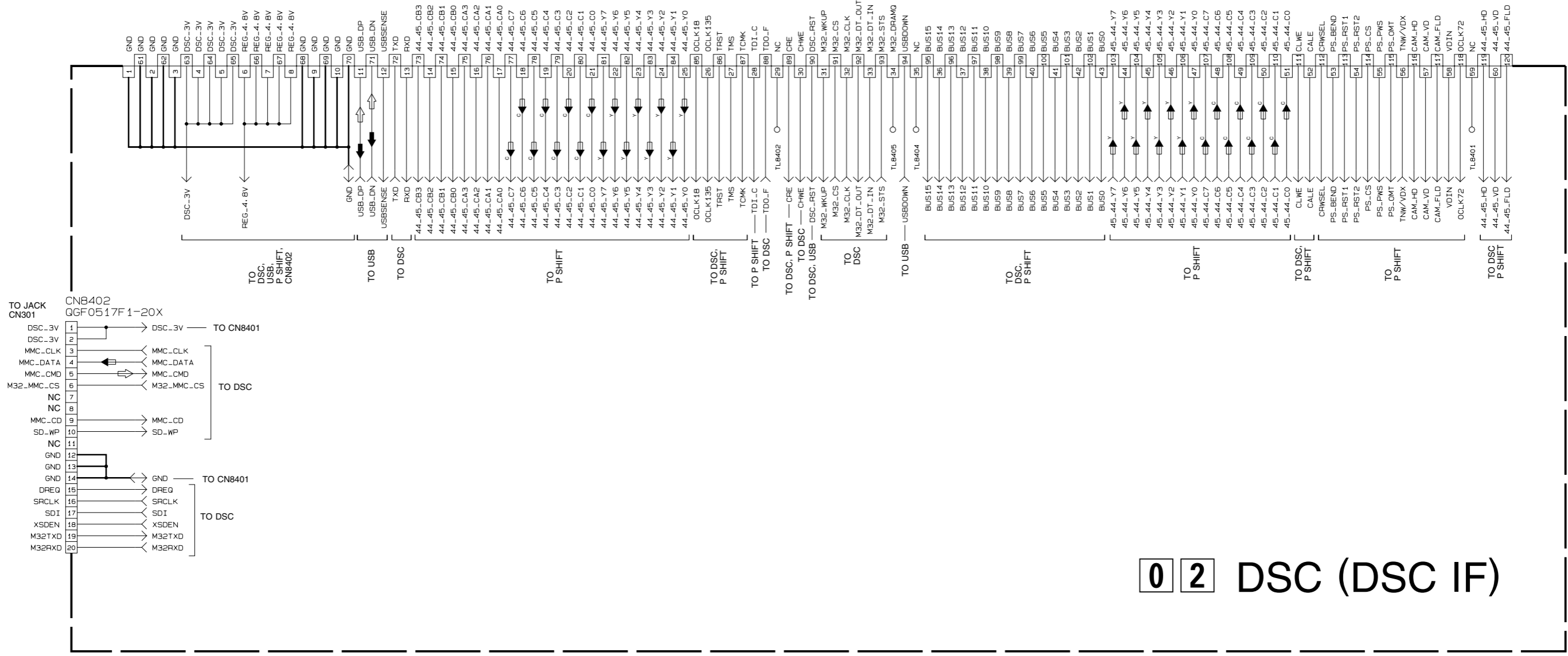
3

2

1

TO MAIN IF (1/2)  
CN105

CN8401 QGB0403L1-COX

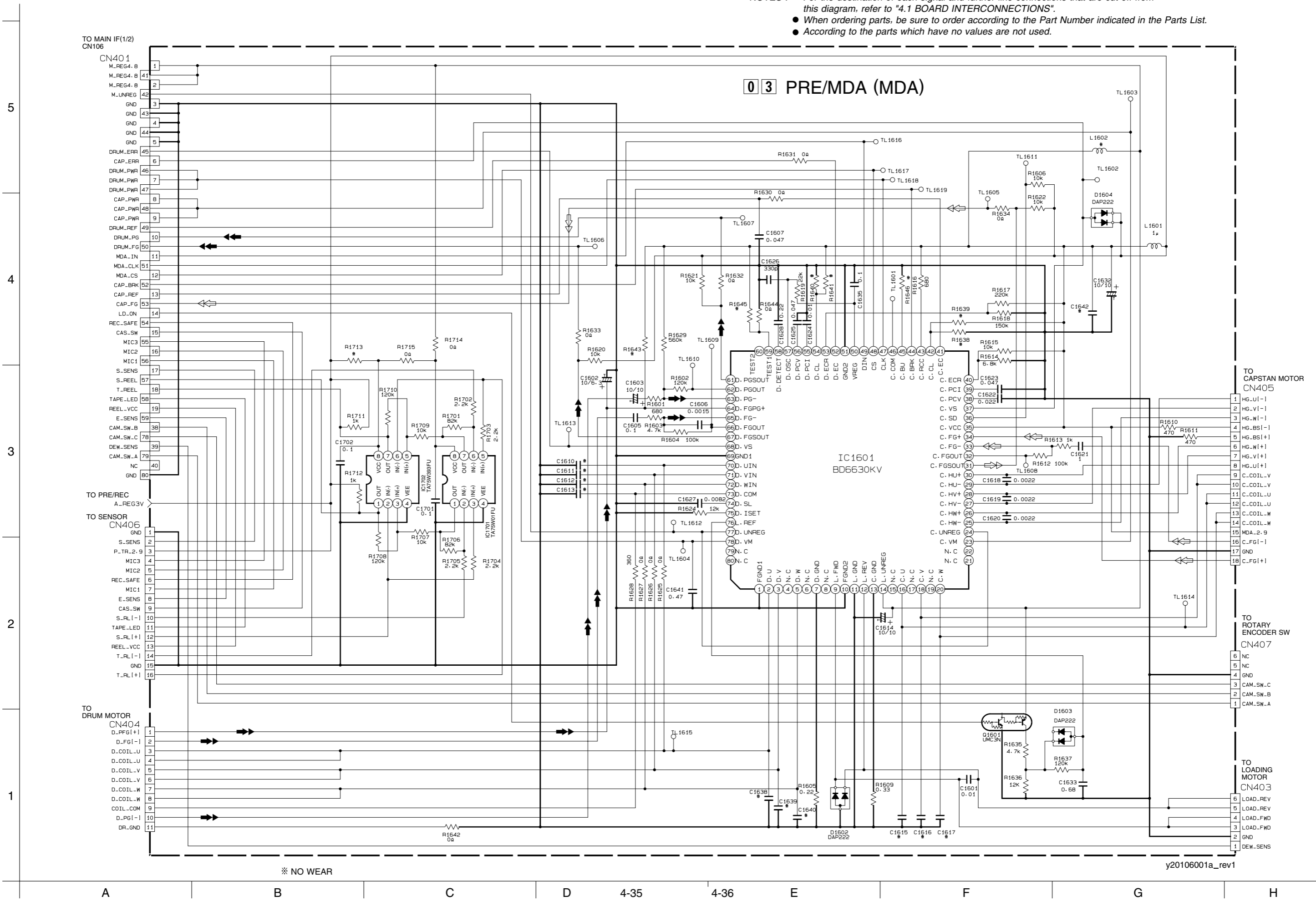


NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.  
 ● According to the parts which have no values are not used.

0 2 DSC (DSC IF)

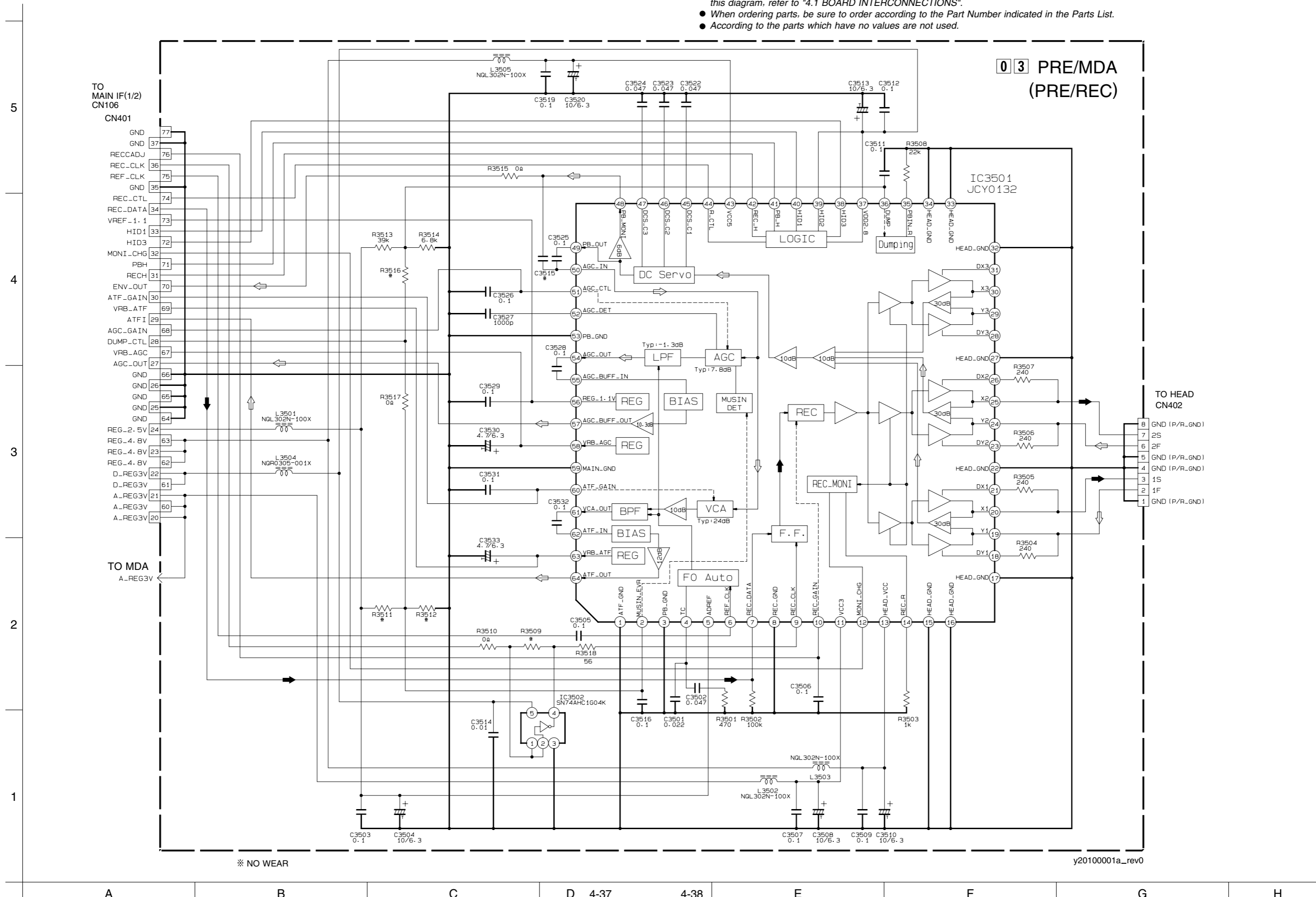
4.17 MDA SCHEMATIC DIAGRAM

- NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
  - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.
  - According to the parts which have no values are not used.



4.18 PRE/REC SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.  
 ● According to the parts which have no values are not used.



03 PRE/MDA  
(PRE/REC)

TO HEAD  
CN402

8	GND (P/R_GND)
7	2S
6	2F
5	GND (P/R_GND)
4	GND (P/R_GND)
3	1S
2	1F
1	GND (P/R_GND)

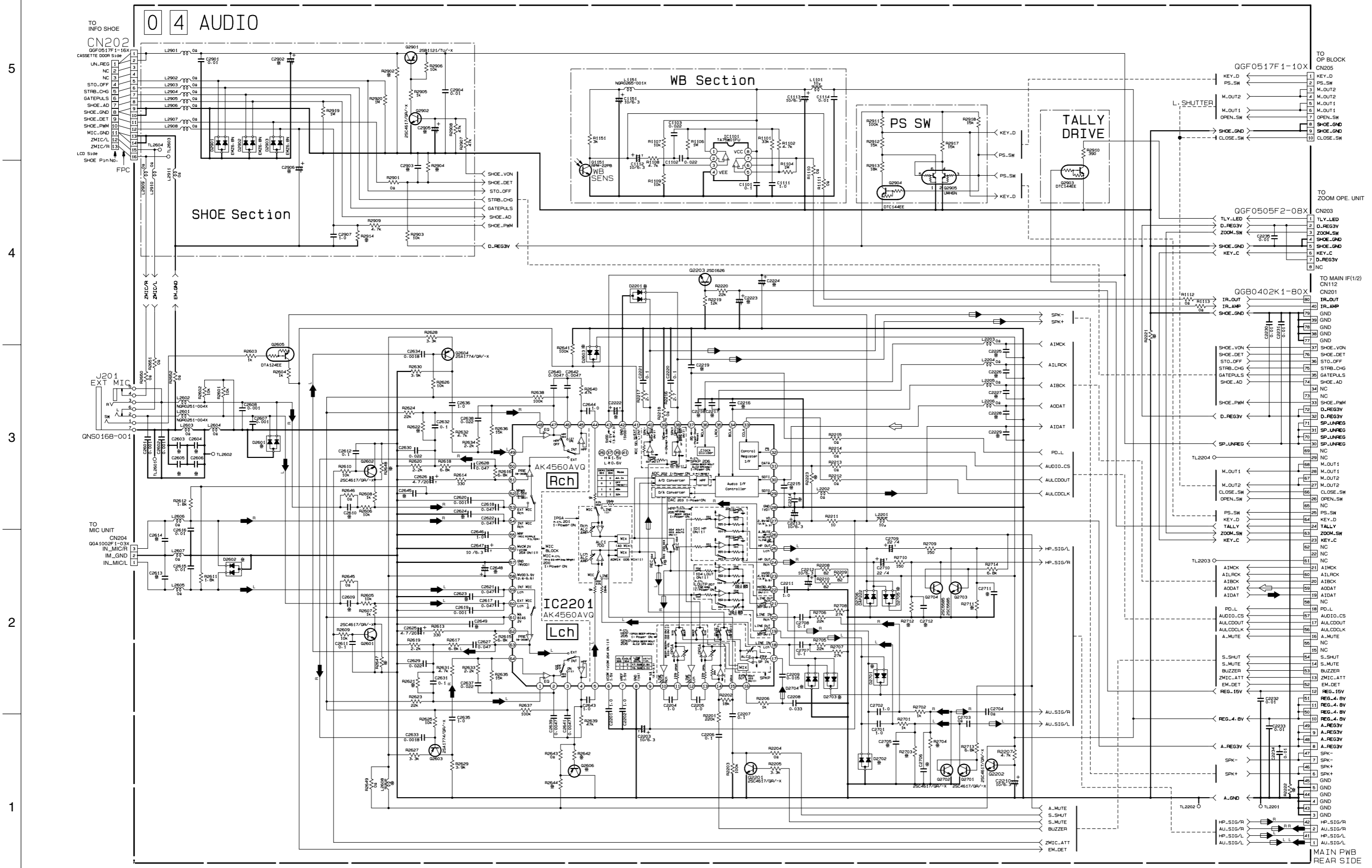
※ NO WEAR

y20100001a\_rev0

A B C D 4-37 4-38 E F G H

4.19 AUDIO SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.  
 ● According to the parts which have no values are not used.

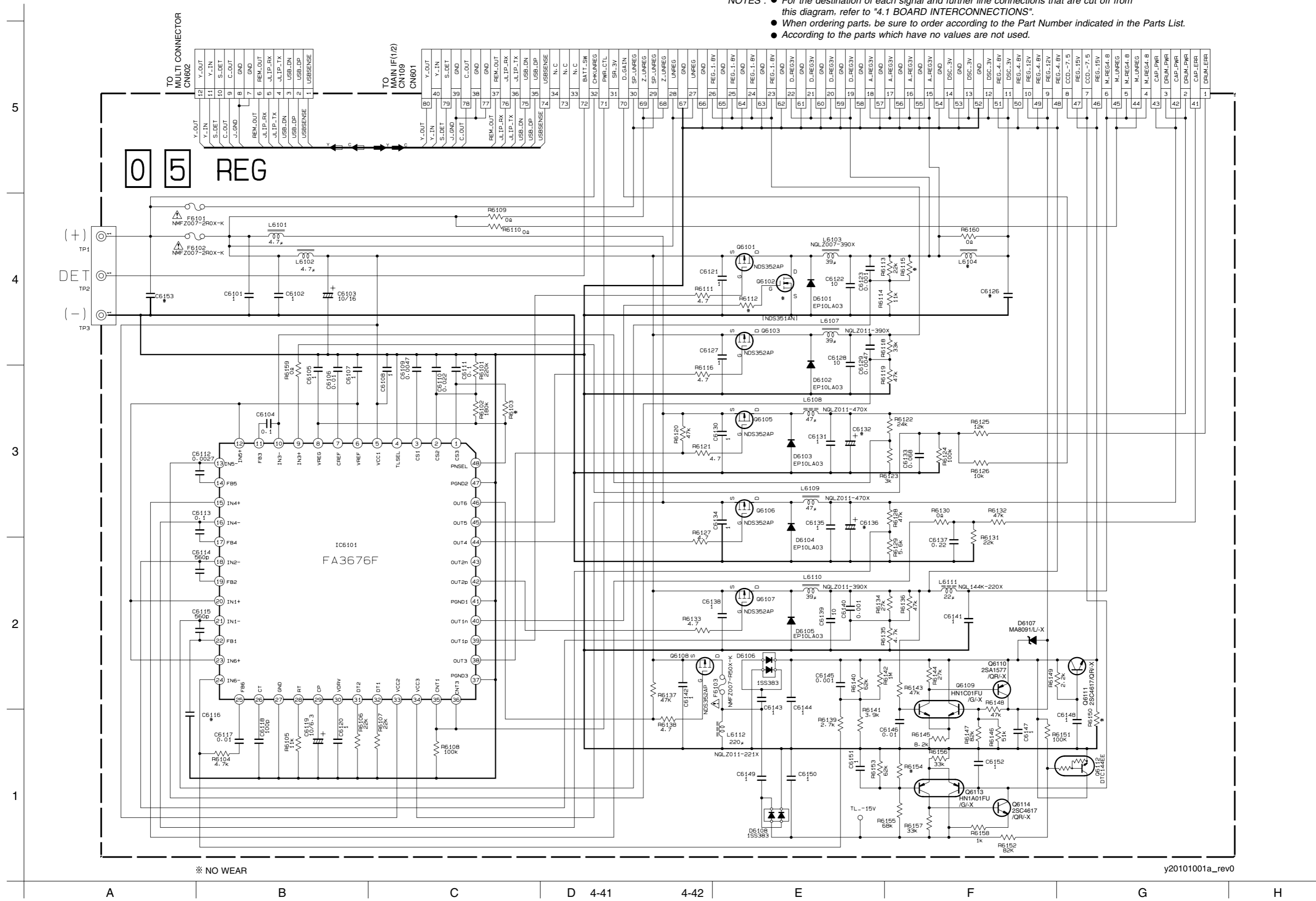


\* NO WEAR

y10161001a\_rev0.1

4.20 REG SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.  
 ● According to the parts which have no values are not used.

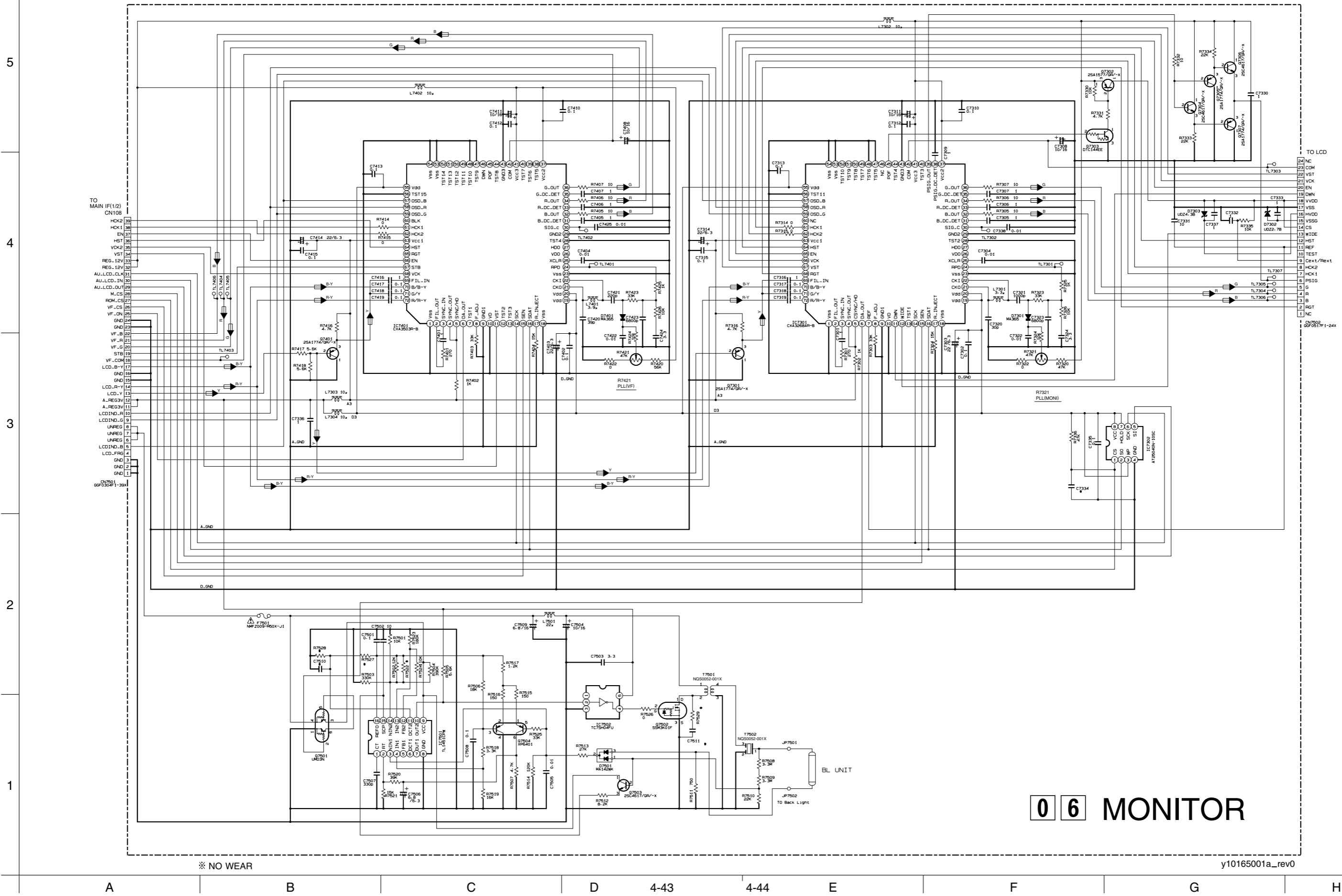


※ NO WEAR

y20101001a\_rev0

4.21 MONITOR SCHEMATIC DIAGRAM

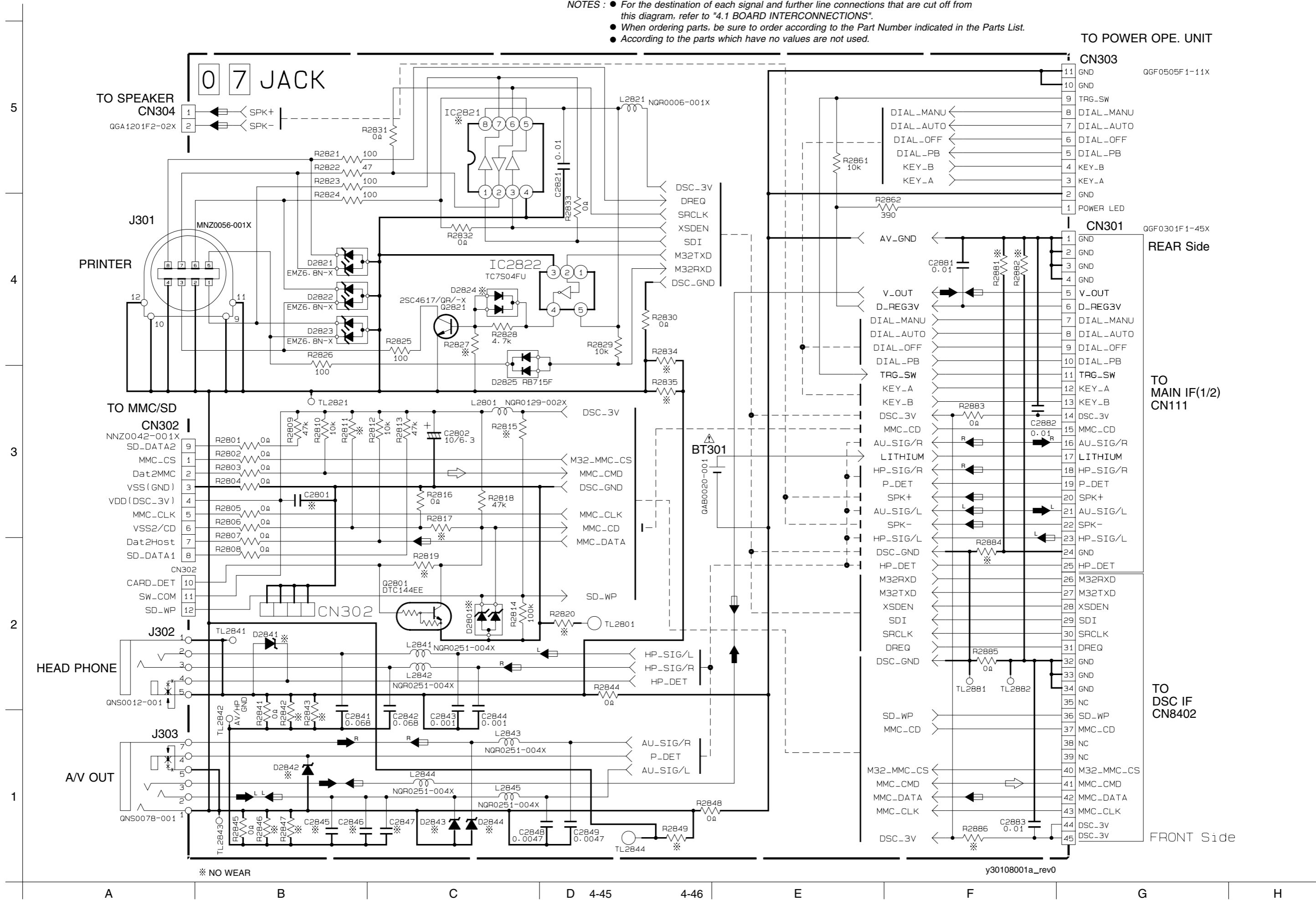
- NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
  - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.
  - According to the parts which have no values are not used.



06 MONITOR

4.22 JACK SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.  
 ● According to the parts which have no values are not used.



\* NO WEAR

y30108001a\_rev0

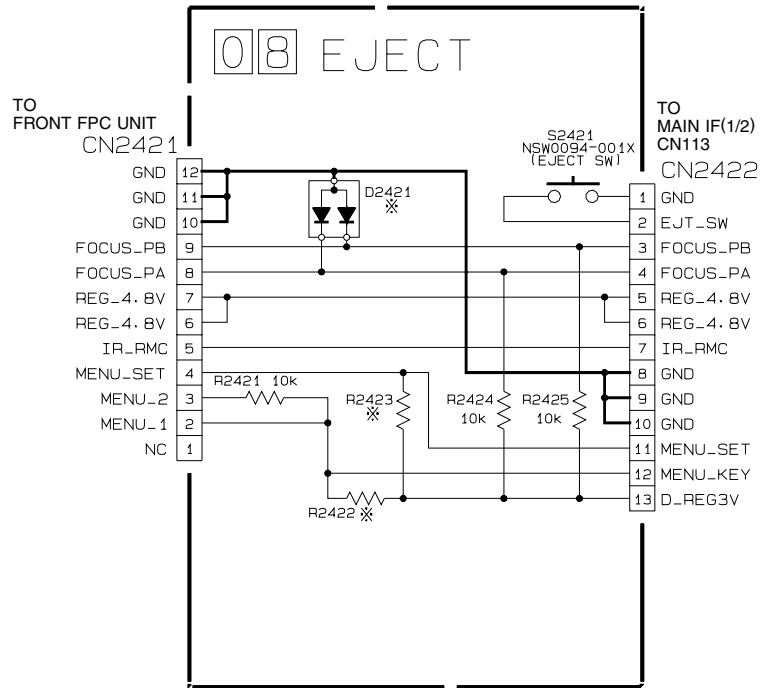


## 4.23 EJECT AND DECK OPE. SCHEMATIC DIAGRAMS

- NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
  - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.
  - According to the parts which have no values are not used.

5

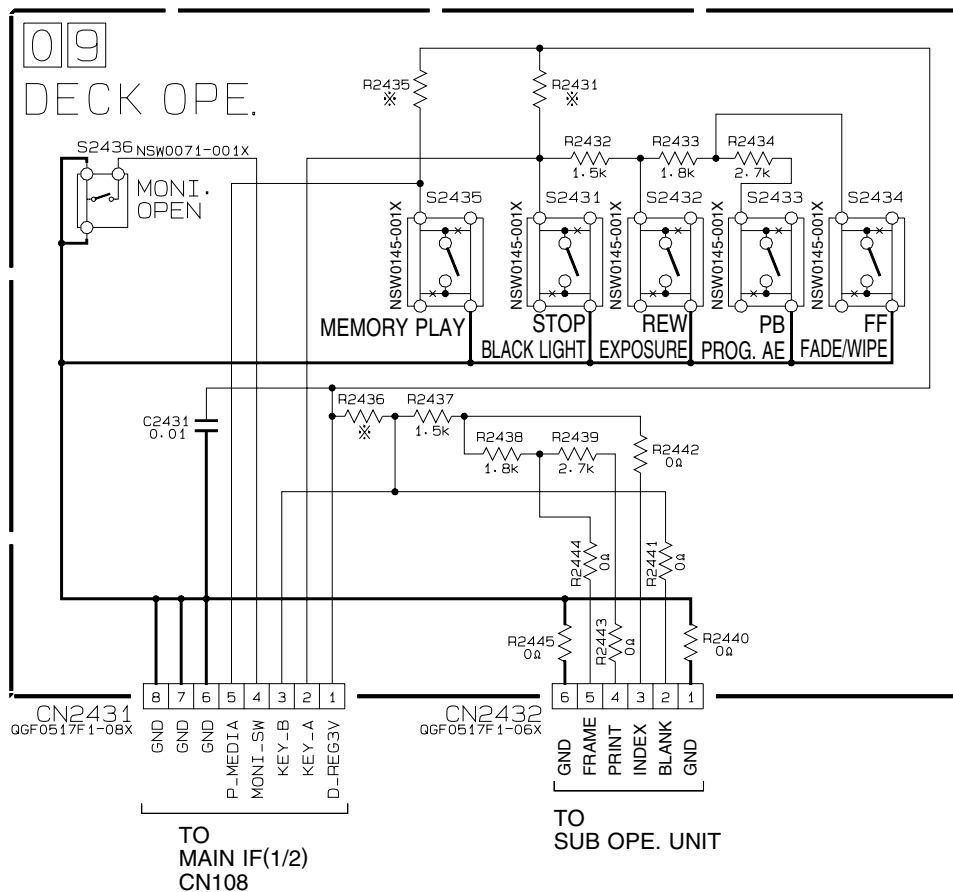
4



※ NO WEAR

3

2

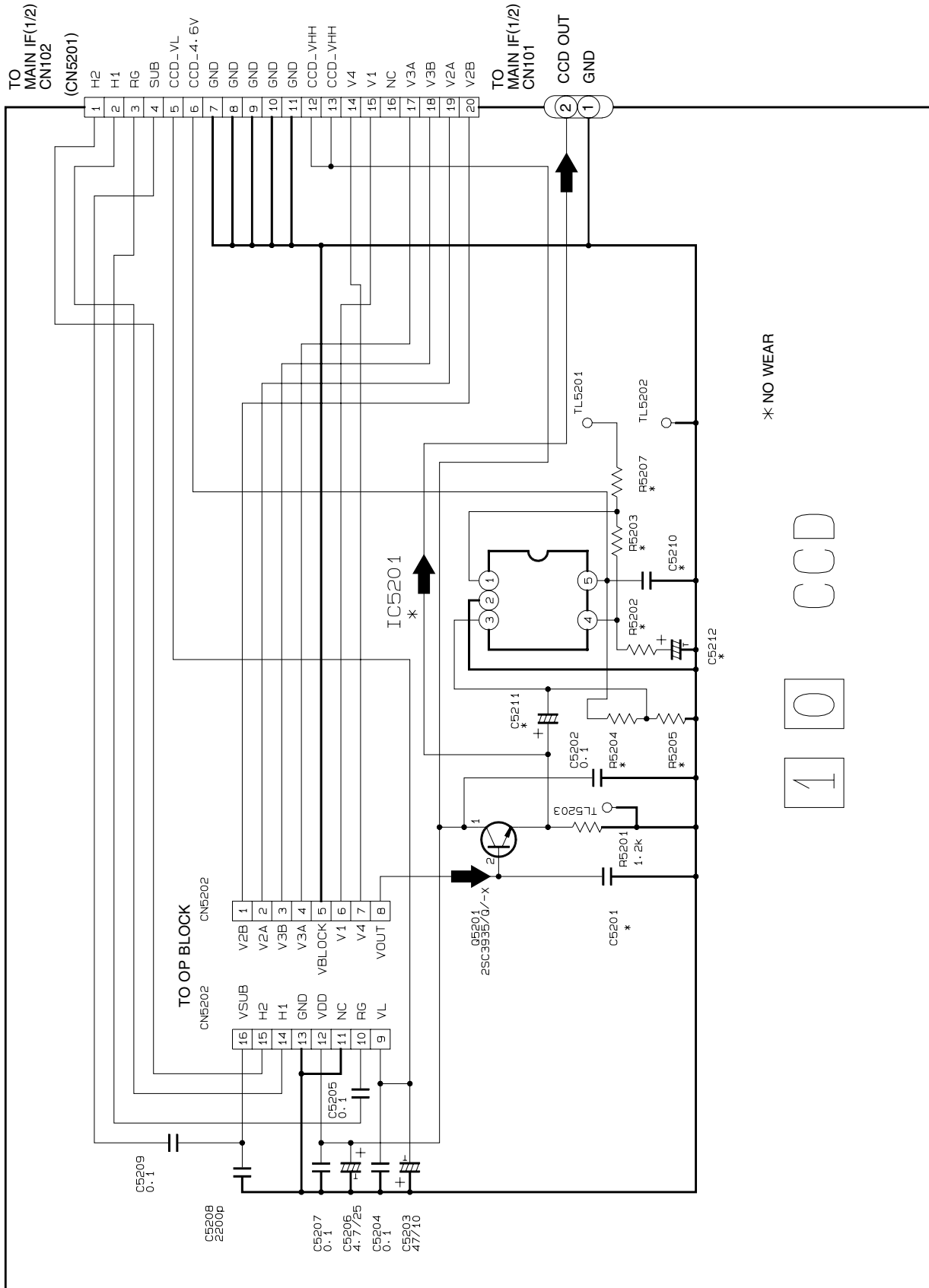


1

y20108001a\_rev0

## 4.24 CCD SCHEMATIC DIAGRAM

- NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
  - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.
  - According to the parts which have no values are not used.

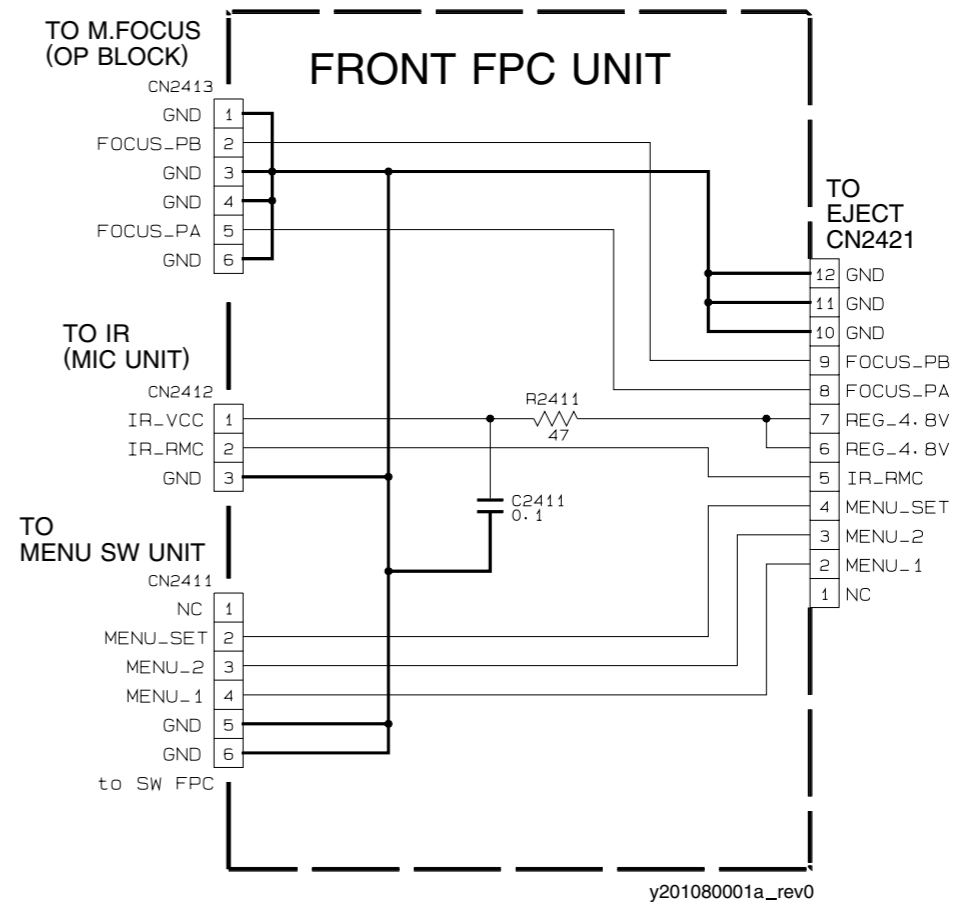
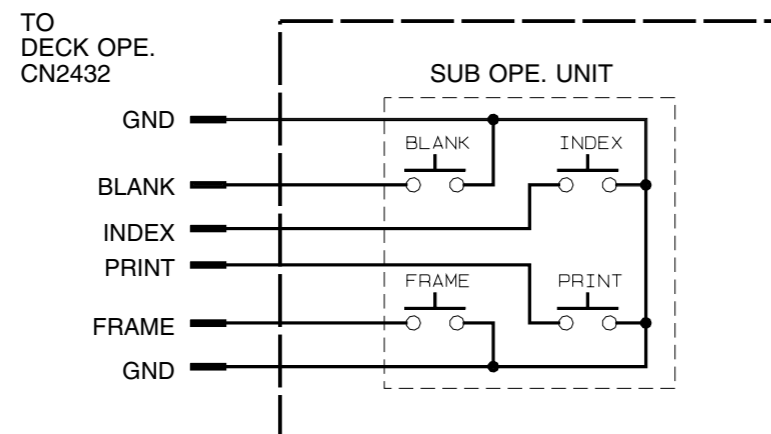
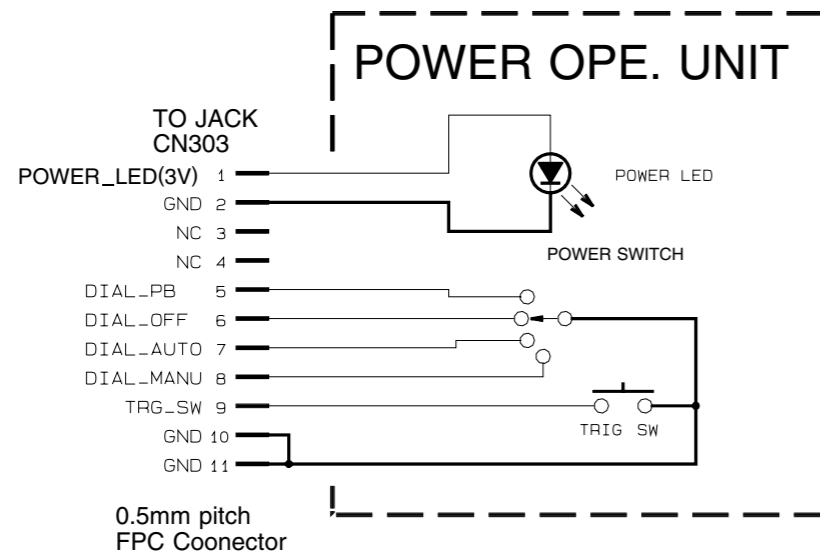
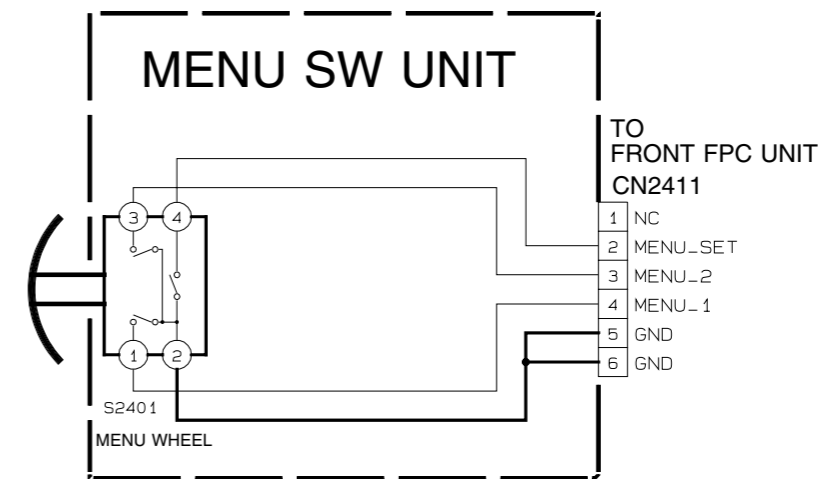
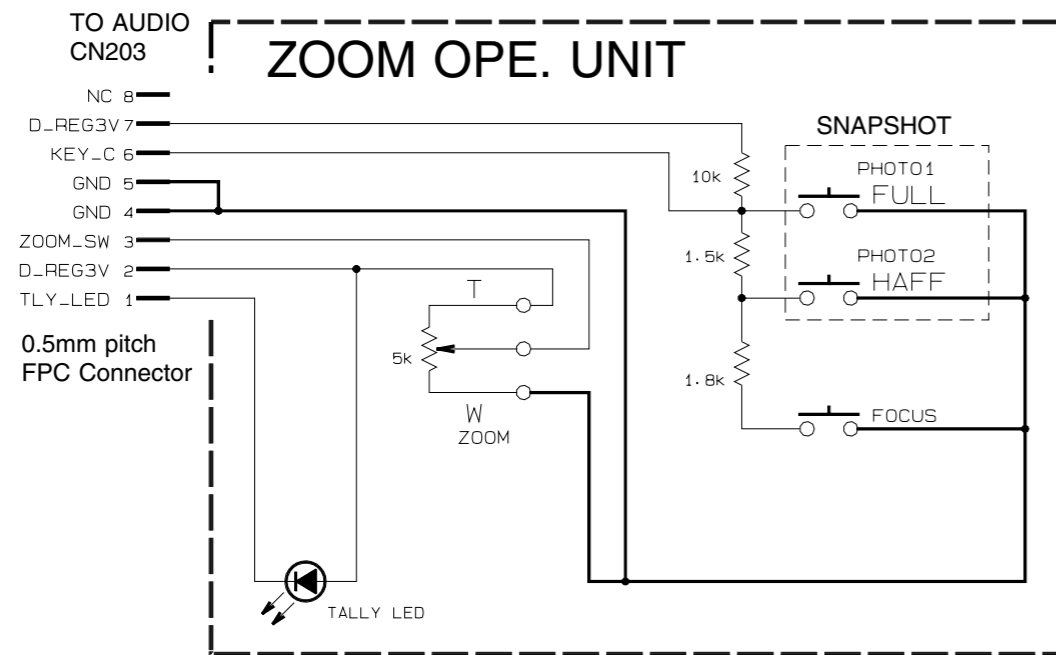


\* NO WEAR

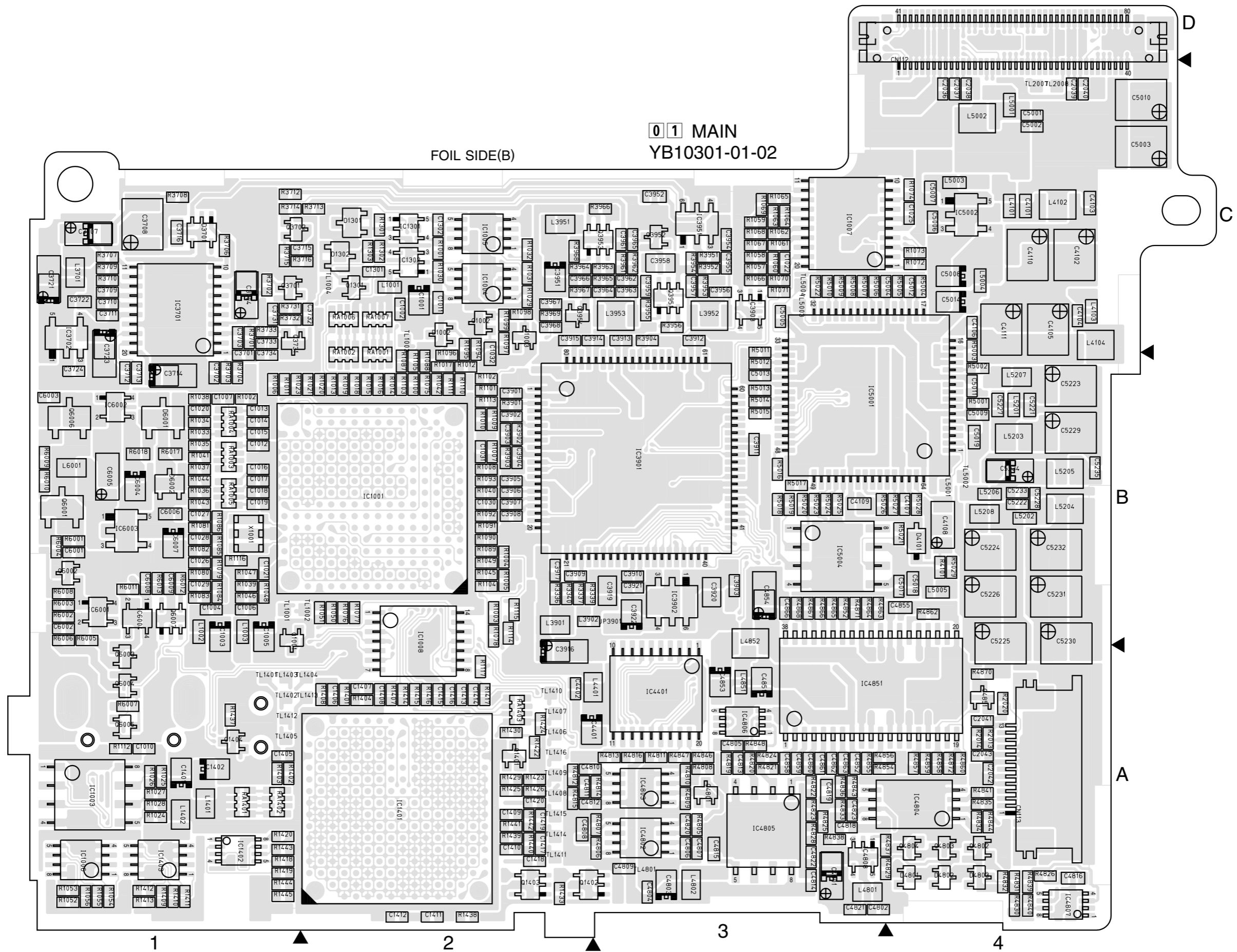
1 0 CCD

4.25 ZOOM OPE. UNIT, POWER OPE. UNIT, SUB OPE. UNIT, MENU SW UNIT AND FRONT FPC UNIT SCHEMATIC DIAGRAMS

- NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
  - The schematic diagram is only for reference. Avoid replacing individual parts. Replace the entire unit only.



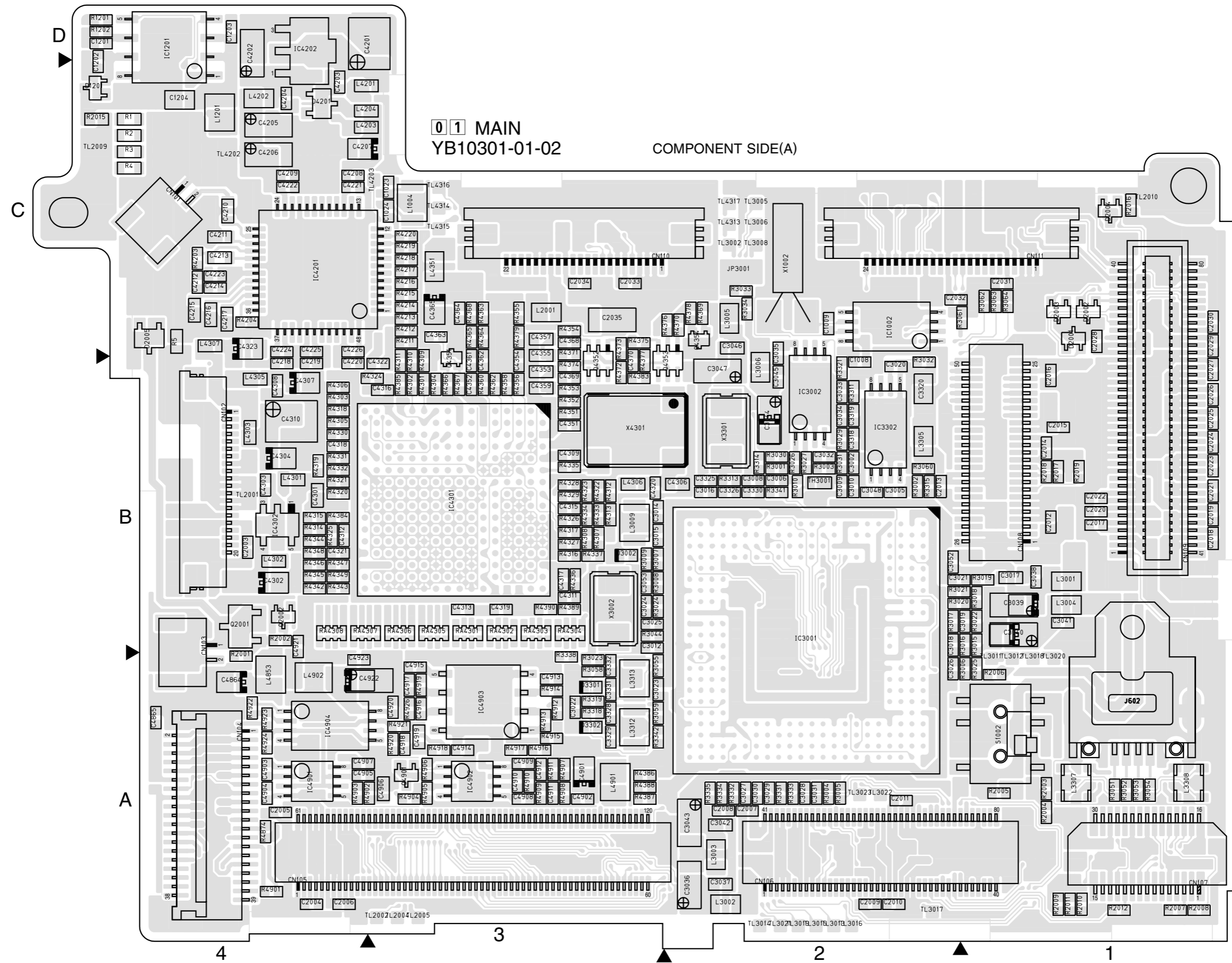
y201080001a\_rev0



01 MAIN  
YB10301-01-02





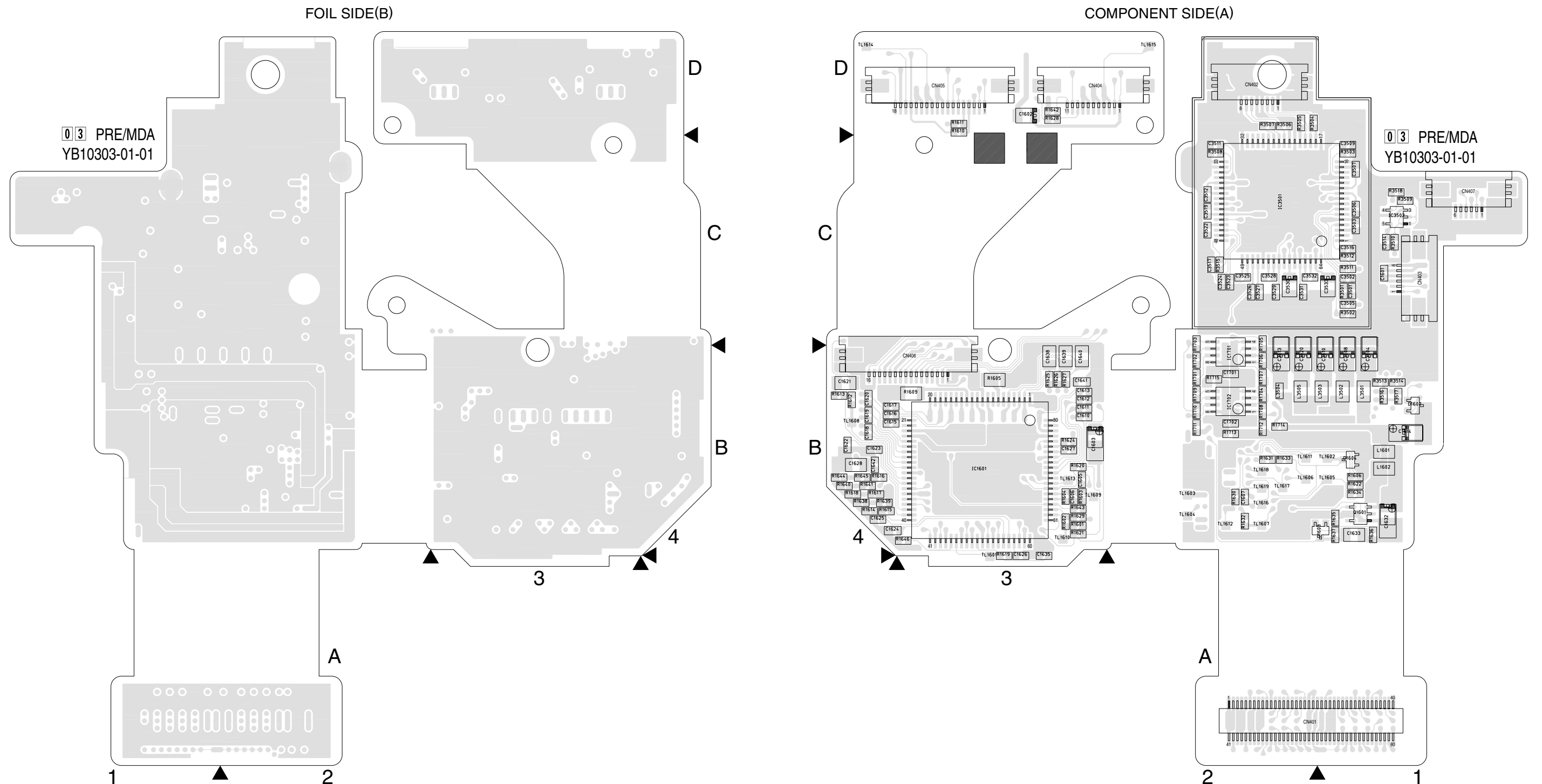


01 MAIN  
YB10301-01-02  
COMPONENT SIDE(A)





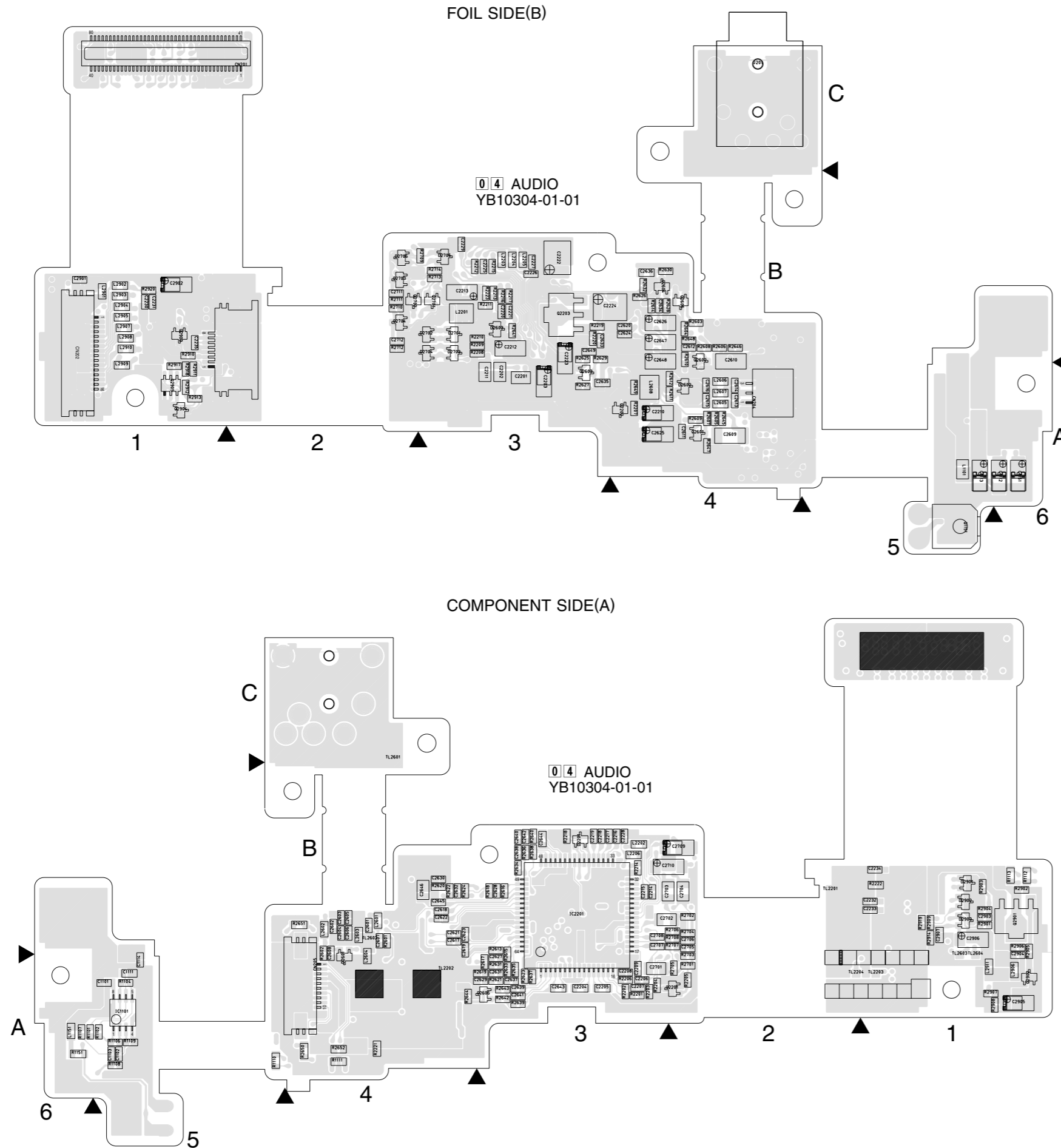
4.28 PRE/MDA CIRCUIT BOARD



COMPONENT PARTS LOCATION GUIDE < PRE/MDA >

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION								
<b>CAPACITOR</b>																															
C1601	A C 1C	C1616	A C 4B	C1633	A C 1B	C3506	A C 1C	C3523	A C 2C	CN402	A C 2D	IC1702	A C 2B	RESISTOR		R1615	A C 4B	R1630	A C 2B	R1644	A C 4B	R1712	A C 2B	R3511	A C 1C	TL1603	A C 2B	TL1617	A C 2B		
C1602	A C 3D	C1617	A C 4B	C1635	A C 3A	C3507	A C 1C	C3524	A C 2C	CN403	A C 1C	IC3501	A C 2C	R1601	A C 3B	R1616	A C 4B	R1631	A C 2B	R1645	A C 4B	R1713	A C 2B	R3512	A C 1C	TL1604	A C 2B	TL1618	A C 2B	TL1619	A C 2B
C1603	A C 3B	C1618	A C 4B	C1638	A C 3B	C3508	A C 1B	C3525	A C 2C	CN404	A C 2D	IC3502	A C 1C	R1603	A C 3B	R1617	A C 4B	R1632	A C 2B	R1646	A C 3B	R1714	A C 2B	R3513	A C 1B	TL1605	A C 1B				
C1605	A C 3B	C1619	A C 4B	C1639	A C 3B	C3509	A C 1C	C3526	A C 2C	CN405	A C 3D		COIL		R1604	A C 3B	R1633	A C 2B	R1701	A C 2B	R3514	A C 2B	TL1606	A C 2B							
C1606	A C 2B	C1620	A C 4B	C1640	A C 3B	C3510	A C 1B	C3527	A C 2C	CN406	A C 3B		L1601	A C 1B	R1605	A C 3B	R1634	A C 1B	R1702	A C 2B	R3515	A C 2C	TL1607	A C 2B							
C1607	A C 3B	C1622	A C 4B	C1642	A C 3B	C3511	A C 2C	C3528	A C 2C	CN407	A C 1C		L1602	A C 1B	R1606	A C 1B	R1703	A C 2C	R3502	A C 1C	R3516	A C 1B	TL1608	A C 4B							
C1610	A C 3B	C1623	A C 4B	C1644	A C 3B	C3512	A C 2C	C3529	A C 2C		DIODE		L1603	A C 1B	R1607	A C 1B	R1704	A C 2B	R3503	A C 1C	R3517	A C 1B	TL1609	A C 3B							
C1611	A C 3B	C1624	A C 4B	C1645	A C 3B	C3513	A C 2B	C3530	A C 2C		D1602	A C 1B	L1604	A C 1B	R1608	A C 3B	R1705	A C 2C	R3504	A C 2D	R3518	A C 1C	TL1610	A C 3B							
C1612	A C 3B	C1625	A C 4B	C1646	A C 3B	C3514	A C 1C	C3531	A C 2C		D1603	A C 1B	L1605	A C 1B	R1609	A C 3B	R1706	A C 2B	R3505	A C 2D		OTHER		TL1611	A C 2B						
C1613	A C 3B	C1626	A C 4B	C1647	A C 3B	C3515	A C 2C	C3532	A C 2C		D1604	A C 1B	L1606	A C 2B	R1610	A C 3D	R1707	A C 2B	R3506	A C 2D	PC04	A C 1D	TL1612	A C 2B							
C1614	A C 1B	C1627	A C 3A	C1648	A C 3B	C3516	A C 1C	C3533	A C 1C				L1607	A C 2B	R1611	A C 3B	R1708	A C 2B	R3507	A C 2D	PC05	A C 1D	TL1613	A C 3B							
C1615	A C 4B	C1628	A C 3B	C1649	A C 3B	C3517	A C 2C		CONNECTOR			L1608	A C 2B	R1612	A C 4B	R1709	A C 2B	R3508	A C 2C	TL1601	A C 3A	TL1614	A C 4D								
		C1632	A C 1B	C1650	A C 1B	C3518	A C 1B	C3520	A C 2B	CN401	A C 2A	IC1601	A C 3B	L1609	A C 2B	R1613	A C 4B	R1710	A C 2B	R3509	A C 1C	TL1602	A C 3B	TL1615	A C 2D						
						C3522	A C 2C	C3522	A C 2C	IC1701	A C 2B	L1601	A C 1B	L1610	A C 1B	R1614	A C 4B	R1711	A C 2B	R3510	A C 1C			TL1616	A C 2B						
										Q1601	A C 1B	L1611	A C 1B																		

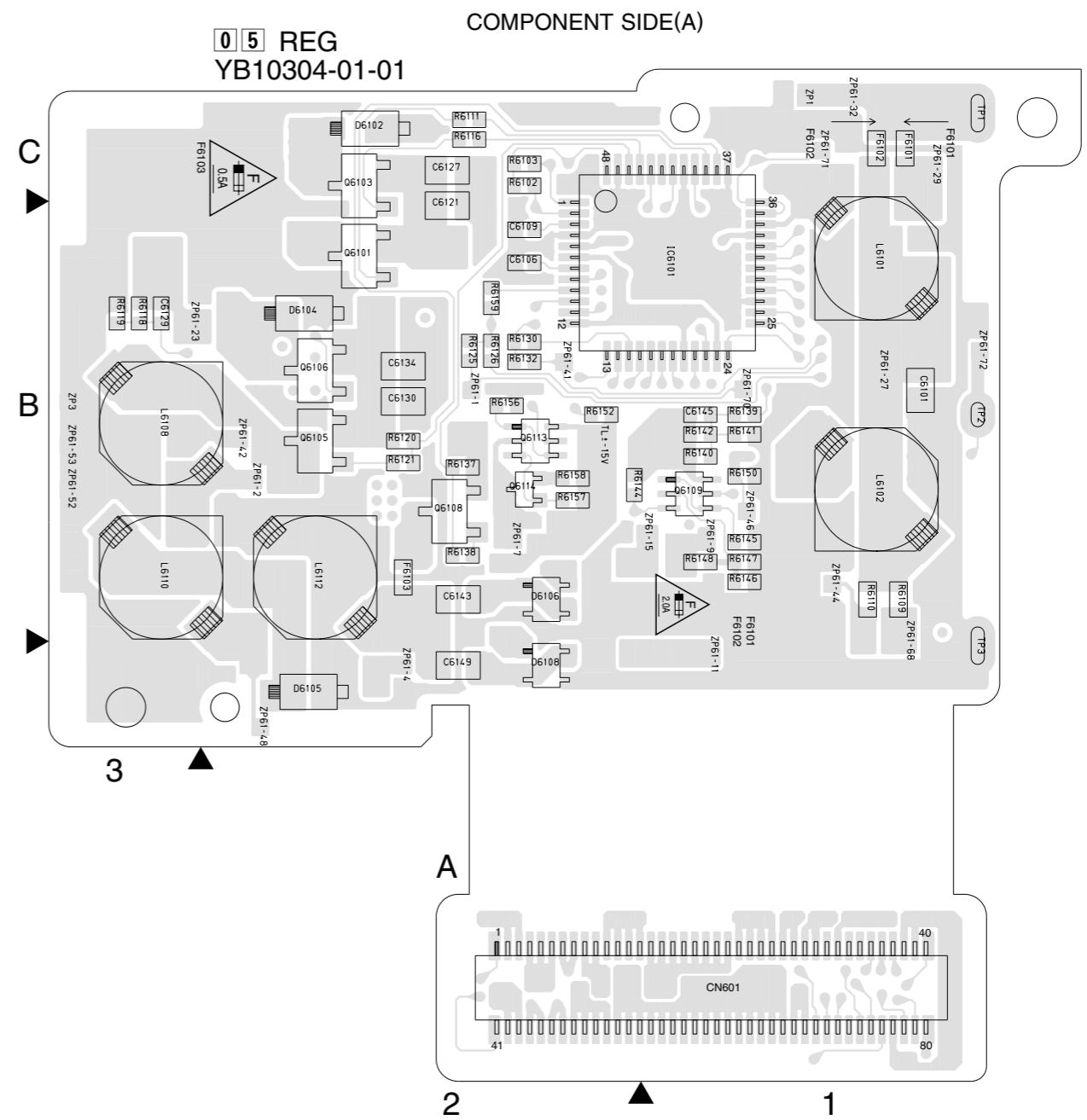
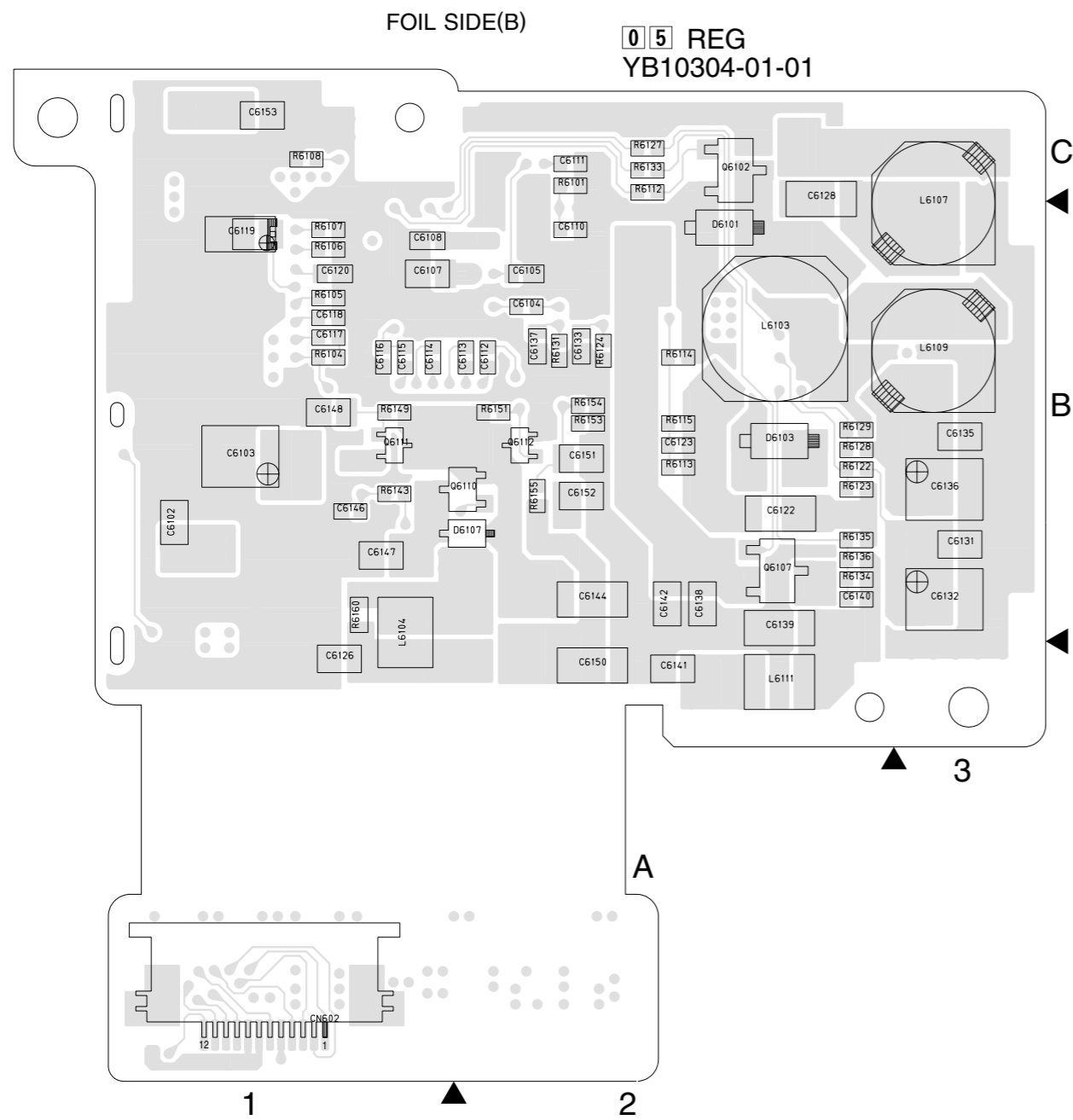
4.29 AUDIO CIRCUIT BOARD



COMPONENT PARTS LOCATION GUIDE <AUDIO>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
<b>CAPACITOR</b>							
C1101	A C	C2702	A C	R1104	A C	R2711	B C
C1102	A C	C2703	A C	R1106	A C	R2712	B C
C1103	A C	C2704	A C	R1107	A C	R2713	B C
C1111	A C	C2705	A C	R1108	A C	R2714	B C
C1112	B C	C2706	A C	R1109	A C	R2901	A C
C1113	B C	C2707	A C	R1110	A C	R2902	A C
C1114	A C	C2708	A C	R1111	A C	R2903	A C
C1151	B C	C2709	A C	R1112	A C	R2904	A C
C2201	B C	C2710	A C	R1113	A C	R2905	A C
C2202	B C	C2711	B C	R1151	A A	R2906	A C
C2203	B C	C2712	B C	R2201	A A	R2907	A C
C2204	A C	C2901	B C	R2202	A A	R2908	A C
C2205	A C	C2902	B C	R2203	A A	R2909	A C
C2206	A C	C2903	A C	R2204	A A	R2910	B C
C2207	A C	C2904	A C	R2205	A A	R2911	B C
C2208	A C	C2905	A C	R2206	A A	R2912	B C
C2209	A C	C2906	A C	R2207	A B	R2913	B C
C2210	B C	C2907	A C	R2208	B B	R2914	A C
C2211	B C	<b>CONNECTOR</b>		R2209	B B	R2917	B C
C2212	B C	CN201	B C	R2210	B B	R2918	B C
C2213	B C	CN202	B C	R2211	B B	R2919	A C
C2214	A C	CN203	B C	R2212	B B	R2920	B C
C2215	A C	CN204	B C	R2213	B B	<b>OTHER</b>	
C2216	A C	CN205	A C	R2214	A B	J201	A D
C2217	A C	<b>DIODE</b>		R2215	B B	TL2201	A C
C2218	A C	D2201	A C	R2216	B B	TL2202	A C
C2219	A C	D2601	A C	R2217	B B	TL2203	A C
C2220	B C	D2602	B C	R2218	A C	TL2204	A C
C2221	B C	D2603	B C	R2219	B B	TL2601	A C
C2222	B C	D2701	B C	R2220	B B	TL2602	A C
C2223	B C	D2702	B C	R2221	A A	TL2603	A C
C2224	B C	D2703	B C	R2222	A C	TL2604	A C
C2225	B C	D2704	B C	R2223	B B		
C2226	B C	D2705	B C	R2224	A B		
C2227	B C	D2706	B C	R2225	A A		
C2228	A C	D2901	A C	R2226	A B		
C2229	B C	D2902	A C	R2227	B B		
C2230	B C	D2903	A C	R2228	B B		
C2231	B C	<b>IC</b>		R2229	B B		
C2232	A C	IC1101	A C	R2230	B B		
C2233	A C	IC2201	A C	R2231	B B		
C2234	A C	<b>COIL</b>		R2232	B B		
C2235	B C	L1101	B C	R2233	B B		
C2601	A C	L1151	A C	R2234	B B		
C2602	A C	L2201	B C	R2235	B B		
C2603	A C	L2202	A C	R2236	B B		
C2604	A C	L2203	B C	R2237	B B		
C2605	A C	L2204	B C	R2238	A A		
C2606	A C	L2205	B C	R2239	A A		
C2607	A C	L2206	A C	R2240	A A		
C2608	A C	L2601	A C	R2241	A A		
C2609	B C	L2602	A C	R2242	A A		
C2610	B C	L2603	A C	R2243	A A		
C2611	B C	L2604	A C	R2244	A A		
C2612	B C	L2605	B C	R2245	A A		
C2613	B C	L2606	B C	R2246	A B		
C2614	B C	L2607	B C	R2247	B B		
C2615	B C	L2608	B C	R2248	B B		
C2616	B C	L2901	B C	R2249	B B		
C2617	A C	L2902	B C	R2250	B B		
C2618	A C	L2903	B C	R2251	B B		
C2619	A C	L2904	B C	R2252	A A		
C2620	B C	L2905	B C	R2253	A A		
C2621	A C	L2906	A C	R2254	A A		
C2622	A C	L2907	B C	R2255	A A		
C2623	A C	L2908	B C	R2256	A A		
C2624	B C	L2909	B C	R2257	A A		
C2625	B C	L2910	B C	R2258	A A		
C2626	B C	L2911	A C	R2259	A A		
C2627	A C	<b>TRANSISTOR</b>		R2260	A A		
C2628	A C	Q1151	A D	R2261	A A		
C2629	A C	Q2201	A C	R2262	A A		
C2630	A C	Q2202	B C	R2263	A A		
C2631	A C	Q2203	B C	R2264	A A		
C2632	A C	Q2601	B C	R2265	A A		
C2633	B C	Q2602	B C	R2266	A B		
C2634	B C	Q2603	B C	R2267	B B		
C2635	B C	Q2604	B C	R2268	B B		
C2636	B C	Q2605	A C	R2269	B B		
C2637	A C	Q2606	A C	R2270	A A		
C2638	A C	Q2701	B C	R2271	A A		
C2639	A C	Q2702	B C	R2272	A A		
C2640	A C	Q2703	B C	R2273	A A		
C2641	A C	Q2704	B C	R2274	A A		
C2642	A C	Q2901	A C	R2275	A A		
C2643	A C	Q2902	A C	R2276	A A		
C2644	A C	Q2903	B C	R2277	A A		
C2645	A C	Q2904	B C	R2278	A A		
C2646	A C	Q2905	B C	R2279	A A		
C2647	B C	<b>RESISTOR</b>		R2280	A C		
C2648	B C	R1101	A C	R2281	A C		
C2649	B C	R1102	A C	R2282	A C		
C2701	A C			R2283	A C		

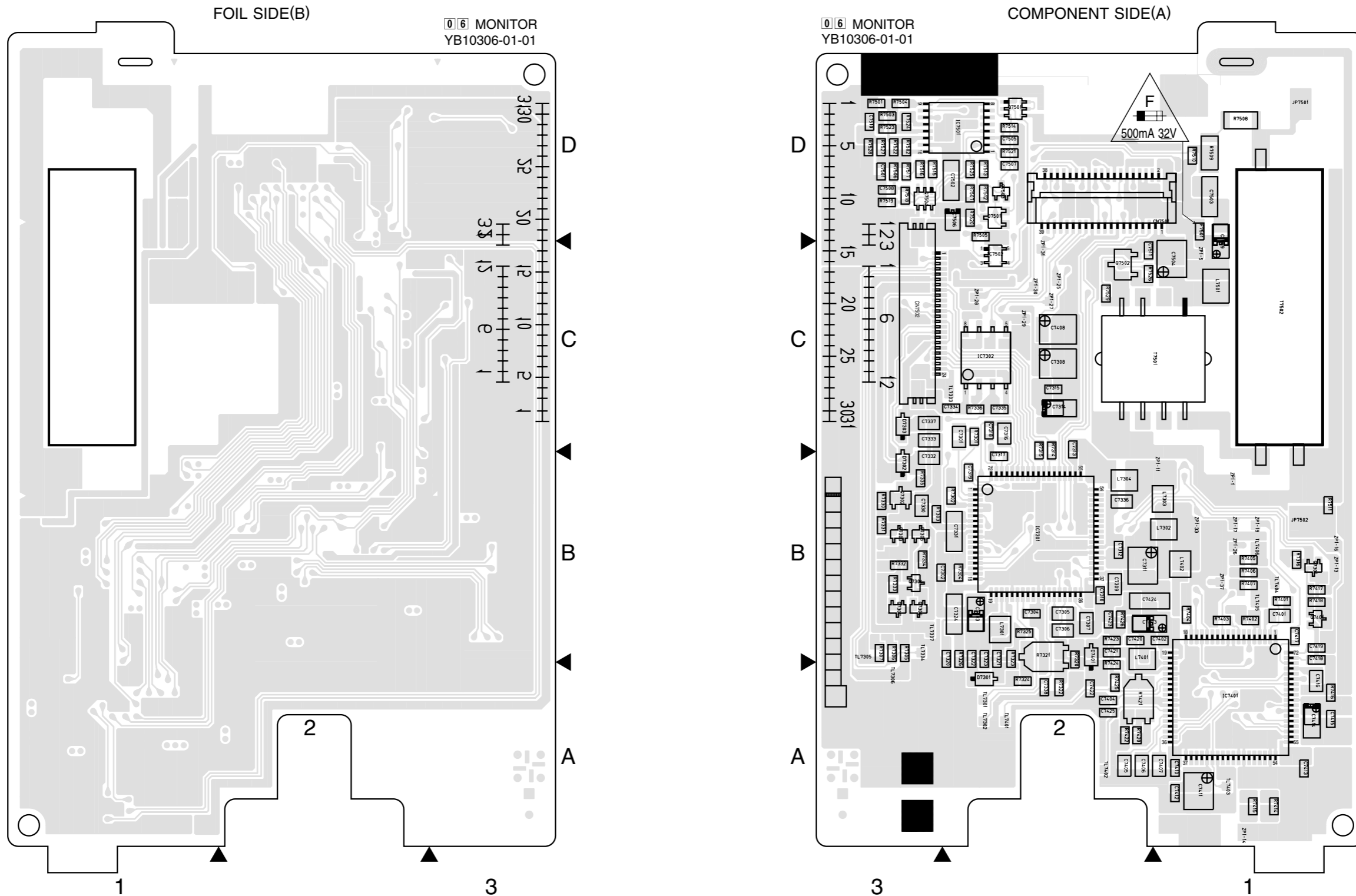
4.30 REG CIRCUIT BOARD



COMPONENT PARTS LOCATION GUIDE <REG>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION						
<b>CAPACITOR</b>																																	
C2205	A C 4A	C2701	A C 4A	C6102	B C 4B	C6103	B C 1B	C6123	B C 2B	C6126	B C 1A	C6146	B C 1B	D2901	A C 4B	L2206	A C 4A	L6112	A C 2B	Q6111	B C 1B	R2701	A C 4A	R2908	A C 4C	R6111	A C 2C	R6133	B C 2C	R6154	B C 2B	ZP61-2	A C 2B
C2206	A C 4A	C2702	A C 4A	C6104	B C 2B	C6105	B C 2B	C6127	A C 2C	C6148	B C 1B	D2902	A C 4B	L2901	B C 4C	Q6112	B C 2B	R2702	A C 4A	R2909	A C 4B	R6112	B C 2C	R6134	B C 2B	R6155	B C 2B	ZP61-4	A C 2A				
C2207	A C 4A	C2703	A C 4A	C6106	A C 2B	C6107	A C 2B	C6128	A C 2C	C6149	A C 2A	D6101	B C 2B	L2903	B C 4B	Q6113	A C 2B	R2703	A C 4A	R2910	B C 4B	R6113	B C 2B	R6135	B C 2B	R6156	A C 2B	ZP61-7	A C 2B				
C2208	A C 4A	C2704	A C 4A	C6108	B C 1B	C6109	A C 2B	C6129	A C 3B	C6150	B C 2A	D6102	A C 2C	L2904	B C 4B	Q6114	A C 2B	R2704	A C 4A	R2911	B C 4B	R6114	B C 2B	R6136	B C 2B	R6157	A C 2B	ZP61-9	A C 1B				
C2209	A C 4A	C2705	A C 4A	C6110	A C 2B	C6111	B C 1B	C6130	A C 2B	C6151	B C 2B	D6103	B C 2B	L2905	B C 4B	R2705	A C 4A	R2912	B C 4B	R6115	B C 2B	R6137	A C 2B	R6158	A C 2B	ZP61-11	A C 1A						
C2210	A C 4A	C2706	A C 4A	C6112	B C 1B	C6113	B C 1B	C6131	B C 3B	C6152	B C 2B	D6104	A C 2B	L2906	A C 4C	R2706	A C 4A	R2913	B C 4B	R6116	A C 2B	R6138	A C 2B	R6159	A C 2B	ZP61-15	A C 1B						
C2211	A C 4A	C2707	A C 4A	C6114	B C 1B	C6115	B C 1B	C6132	B C 3B	C6153	B C 1C	D6105	A C 2A	L2907	B C 4B	R2707	A C 4A	R2914	A C 4B	R6118	A C 3B	R6139	A C 1B	R6160	B C 1B	ZP61-23	A C 3B						
C2212	A C 4A	C2708	A C 4A	C6116	B C 2B	C6117	B C 2B	C6133	B C 3B	C6154	A C 2A	D6106	A C 2B	L2908	B C 4B	R2708	A C 4A	R2915	B C 4B	R6119	A C 3B	R6140	A C 1B	ZP61-29	A C 1B								
C2213	A C 4A	C2709	A C 4A	C6118	B C 2B	C6119	B C 2B	C6134	A C 2B	C6155	B C 2B	D6107	B C 2B	L2909	B C 4B	R2709	B C 4A	R2916	B C 4B	R6120	A C 2B	R6141	A C 1B	ZP61-27	A C 1C								
C2214	A C 4A	C2710	A C 4A	C6120	B C 2B	C6121	B C 2B	C6135	B C 3B	C6156	B C 2B	D6108	A C 2A	L2910	A C 4C	R2710	B C 4A	R2917	A C 4B	R6121	A C 2B	R6142	B C 1B	J201	A D 5A								
C2215	A C 4A	C2711	B C 4A	C6122	B C 1B	C6123	B C 1B	C6136	B C 3B	C6157	B C 2B	F6101	A C 1C	L2911	A C 4C	R2711	B C 4A	R2918	A C 4B	R6122	A C 2B	R6143	B C 1B	TL2201	A C 4B								
C2216	A C 5A	C2712	B C 4A	C6124	B C 1B	C6125	B C 1B	C6137	B C 2B	C6158	B C 2B	F6102	A C 1C	L6101	A C 1B	R2712	B C 4A	R2919	A C 4C	R6123	B C 2B	R6144	A C 2B	TL2203	A C 4B								
C2217	A C 5A	C2901	B C 4C	C6126	B C 1B	C6127	B C 1B	C6138	B C 2B	C6159	B C 2B	F6103	A C 2B	L6102	A C 1B	R2713	B C 4A	R2920	A C 4C	R6124	B C 2B	R6145	A C 1B	TL2204	A C 4B								
C2218	A C 4A	C2902	B C 4B	C6128	B C 1B	C6129	B C 1B	C6139	B C 2B	C6160	B C 2B	Q6101	A C 2B	L6103	B C 1B	R2714	B C 4A	R2921	A C 4C	R6125	A C 2B	R6146	A C 1B	TL2603	A C 4B								
C2219	A C 5A	C2903	A C 4C	C6130	B C 1B	C6131	B C 1B	C6140	B C 2B	C6161	B C 1B	Q6102	A C 2C	L6104	B C 1B	R2715	B C 4A	R2922	A C 4C	R6126	A C 2B	R6147	A C 1B	TL2604	A C 4B								
C2220	B C 4B	C2904	A C 4C	C6132	B C 1B	C6133	B C 1B	C6141	B C 2A	C6162	B C 1B	Q6103	A C 2C	L6107	B C 3B	R2716	B C 4A	R2923	A C 4B	R6127	A C 2C	R6148	A C 1B	TL_-15V	A C 2B								
C2221	B C 4B	C2905	A C 4C	C6134	B C 1B	C6135	B C 1B	C6142	B C 2A	C6163	B C 1B	Q6104	A C 2B	L6108	B C 3B	R2717	B C 4A	R2924	A C 4B	R6128	B C 2B	R6149	B C 1B	TP1	A C 1C								
C2222	A C 4B	C2906	A C 4B	C6136	B C 1B	C6137	B C 1B	C6143	A C 2B	C6164	B C 1B	Q6105	A C 2B	L6109	A C 3B	R2718	B C 4A	R2925	A C 4C	R6129	B C 2B	R6150	A C 1B	TP2	A C 1B								
C2223	A C 4B	C2907	A C 4B	C6138	B C 1B	C6139	B C 1B	C6144	B C 2B	C6165	B C 1B	Q6106	A C 2B	L6110	A C 3B	R2719	B C 4A	R2926	A C 4C	R6130	A C 2B	R6151	B C 2B	TP3	A C 1A								
C2224	A C 4B	C6101	A C 1B	C6140	B C 1B	C6141	B C 1B	C6145	A C 1B	C6166	B C 1B	Q6107	A C 2B	L6111	A C 3B	R2720	A C 4C	R2927	A C 4C	R6131	B C 2B	R6152	A C 2B	ZP1	A C 1C								
										Q6108	A C 2B							R6132	A C 2B	R6153	B C 2B	ZP3	A C 3B	ZP61-71	A C 1C								
										Q6109	A C 1B											ZP61-72	A C 1B										
										Q6110	B C 2B																						

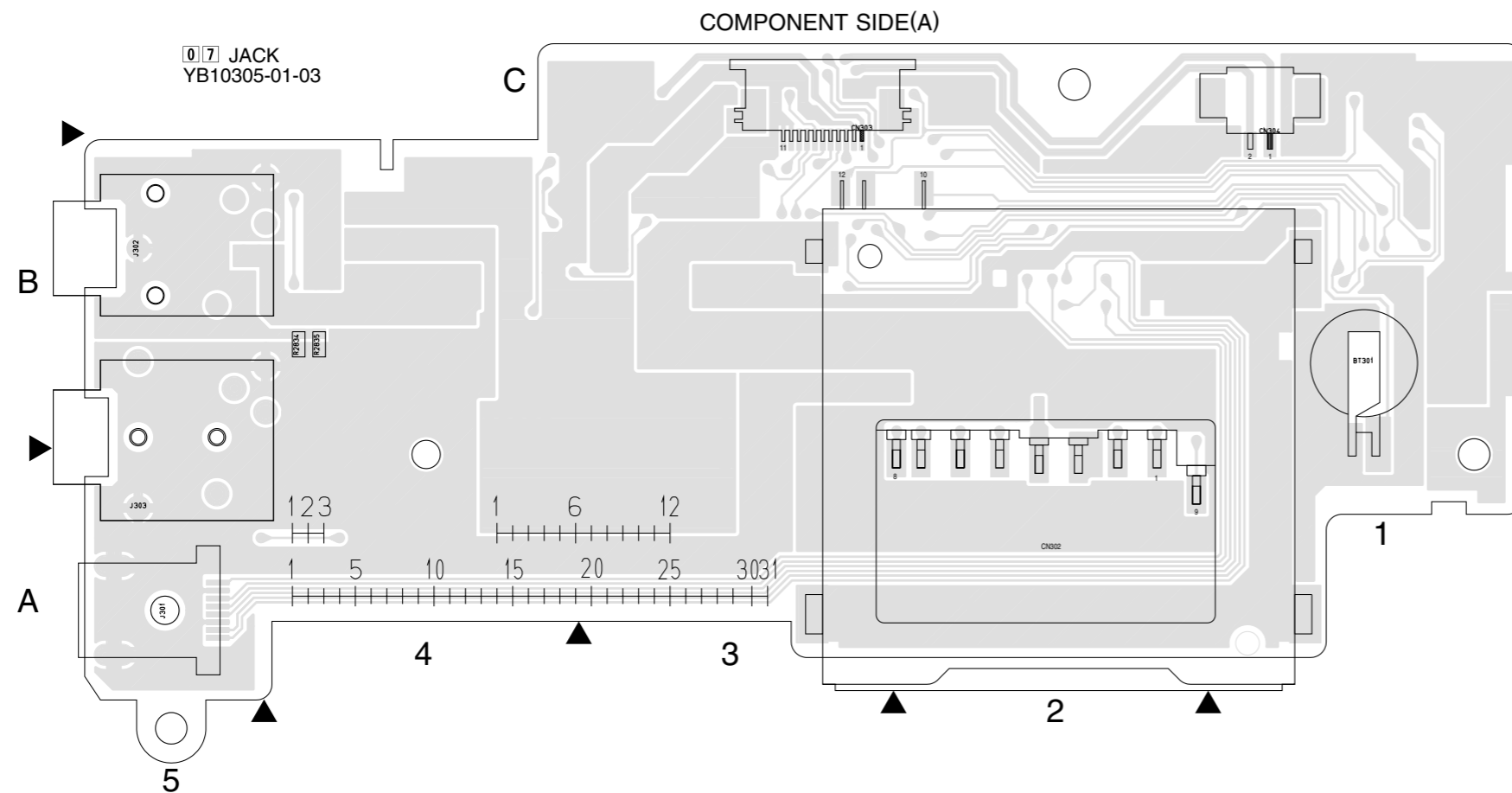
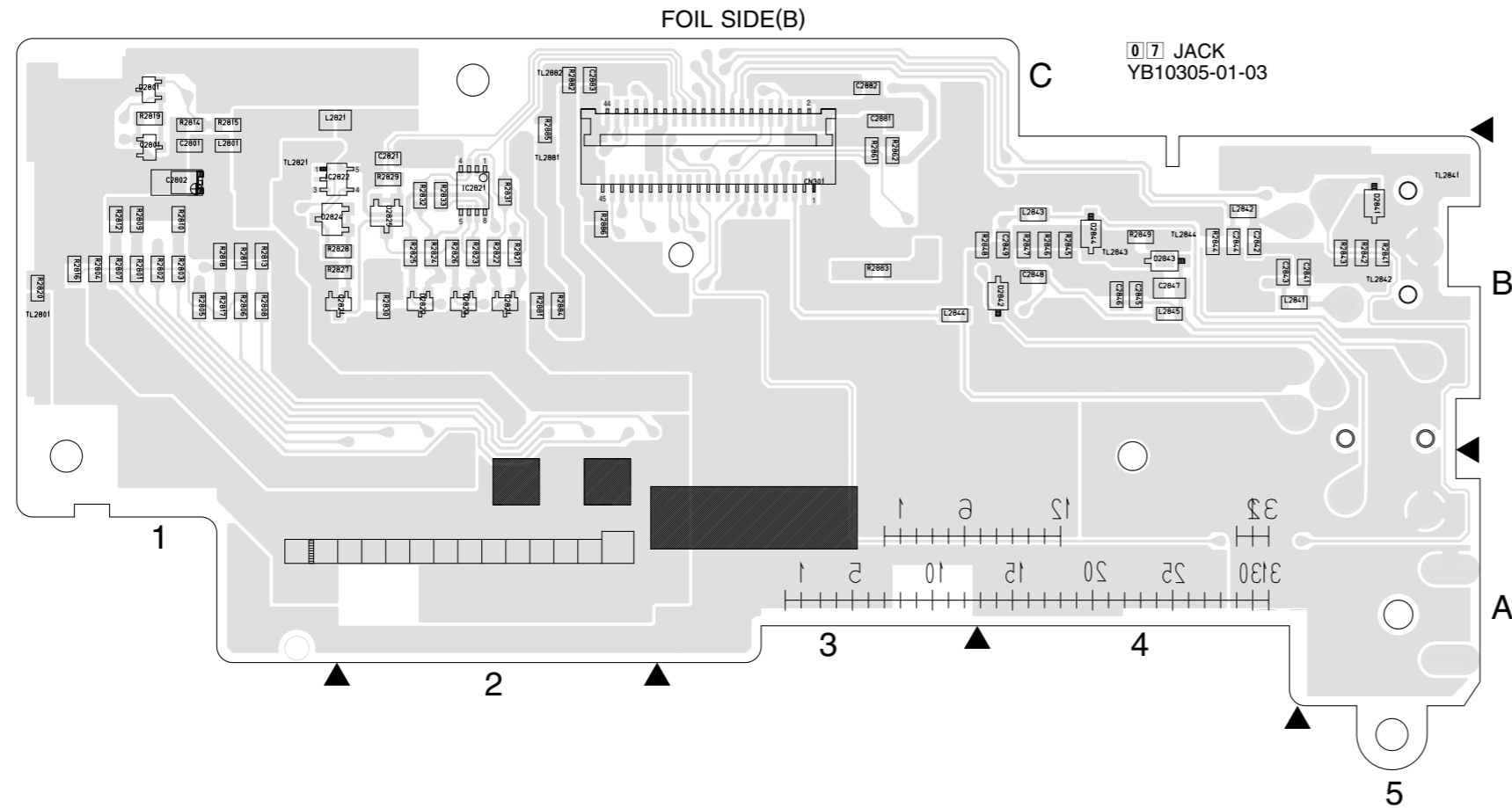
4.31 MONITOR CIRCUIT BOARD



COMPONENT PARTS LOCATION GUIDE < MONITOR >

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<b>CAPACITOR</b>																													
C7301	A C 2C	C7314	A C 2C	C7334	A C 3C	C7412	A C 1A	C7502	A C 3D	D7301	A C 2A	IC7502	A C 2C	Q7305	A C 3B	R7306	A C 3B	R7333	A C 3B	R7418	A C 1B	R7508	A C 1D	R7523	A C 3D	TL7301	A C 2A	ZP1-11	A C 2B
C7302	A C 3B	C7315	A C 2C	C7335	A C 2B	C7413	A C 1A	C7503	A C 1D	D7302	A C 3B	L7301	A C 2B	Q7306	A C 3B	R7307	A C 3B	R7334	A C 3B	R7420	A C 2A	R7509	A C 1B	R7524	A C 3D	TL7302	A C 2A	ZP1-13	A C 1B
C7303	A C 2B	C7317	A C 2C	C7337	A C 3C	C7414	A C 1A	C7504	A C 1C	D7303	A C 3C	L7302	A C 1B	Q7307	A C 1B	R7314	A C 2C	R7335	A C 2C	R7421	A C 2A	R7510	A C 1D	R7525	A C 2D	TL7303	A C 3C	ZP1-14	A C 1A
C7304	A C 2B	C7318	A C 2C	C7338	A C 2A	C7415	A C 1A	C7505	A C 2D	D7401	A C 2B	L7303	A C 1B	Q7401	A C 2D	R7315	A C 2C	R7336	A C 2B	R7422	A C 2A	R7511	A C 2C	R7526	A C 2C	TL7304	A C 3B	ZP1-16	A C 1B
C7305	A C 2B	C7319	A C 2B	C7401	A C 1B	C7416	A C 1A	C7506	A C 2D	D7501	A C 2D	L7304	A C 2B	Q7501	A C 2D	R7316	A C 2B	R7401	A C 1B	R7423	A C 2B	R7512	A C 2D	R7527	A C 3D	TL7305	A C 3B	ZP1-17	A C 1B
C7306	A C 2B	C7320	A C 3B	C7402	A C 2B	C7417	A C 1B	C7507	A C 2D	L7401	A C 2B	L7306	A C 2B	Q7502	A C 2C	R7320	A C 2B	R7402	A C 2C	R7424	A C 2A	R7513	A C 2D	R7528	A C 3D	TL7306	A C 3A	ZP1-19	A C 1B
C7307	A C 2B	C7321	A C 2B	C7403	A C 2B	C7418	A C 1B	C7508	A C 3D	L7402	A C 1B	L7308	A C 2B	Q7503	A C 2D	R7321	A C 2B	R7403	A C 1B	R7425	A C 2A	R7514	A C 3D	R7529	A C 2C	TL7307	A C 3B	ZP1-25	A C 2B
C7308	A C 2C	C7322	A C 2B	C7404	A C 2A	C7419	A C 1B	C7509	A C 1C	L7501	A C 1C	L7309	A C 2B	Q7504	A C 3D	R7322	A C 2A	R7404	A C 1B	R7426	A C 2B	R7515	A C 3D	OTHER	TL7401	A C 2A	ZP1-26	A C 1B	
C7309	A C 2C	C7323	A C 2B	C7405	A C 2A	C7420	A C 2B	C7510	A C 3D			L7310	A C 2B	RESISTOR	R7323	A C 2A	R7405	A C 1B	R7501	A C 3D	R7516	A C 3D	JP7501	A C 1D	TL7402	A C 2A	ZP1-27	A C 2C	
C7310	A C 2C	C7324	A C 2B	C7406	A C 2A	C7421	A C 2B	C7511	A C 2C			L7311	A C 2B		R7324	A C 2A	R7406	A C 1B	R7502	A C 3D	R7517	A C 3D	JP7502	A C 1B	TL7403	A C 1A	ZP1-28	A C 2C	
C7311	A C 2B	C7325	A C 2B	C7407	A C 2A	C7422	A C 2A					L7312	A C 2B		R7325	A C 2B	R7407	A C 1B	R7503	A C 3D	R7518	A C 3D	PC0229	A C 3A	TL7404	A C 1B	ZP1-29	A C 2C	
C7312	A C 2B	C7326	A C 2B	C7408	A C 2C	C7423	A C 2B	CONNECTOR	IC7301	A C 2B	TRANSISTOR	Q7301	A C 1B	R7301	A C 3B	R7326	A C 2B	R7414	A C 1B	R7504	A C 3D	R7519	A C 3D	PC0230	A C 3A	TL7405	A C 1B	ZP1-30	A C 2C
C7313	A C 2C	C7332	A C 3C	C7410	A C 1A	C7424	A C 2B	CN7501	A C 2D	IC7302	A C 2C	Q7302	A C 3B	R7302	A C 3B	R7327	A C 3B	R7415	A C 1A	R7505	A C 2D	R7520	A C 2D	T7501	A C 2C	TL7406	A C 1B	ZP1-31	A C 2C
		C7333	A C 3C	C7411	A C 1A	C7501	A C 3D	CN7502	A C 3C	IC7401	A C 1A	Q7303	A C 3B	R7303	A C 3B	R7328	A C 3B	R7416	A C 1A	R7506	A C 3D	R7521	A C 2D	T7502	A C 1C	TL7407	A C 1B	ZP1-33	A C 2B
										IC7501	A C 2D	Q7304	A C 3B	R7304	A C 2B	R7329	A C 3B	R7417	A C 1B	R7507	A C 2D	R7522	A C 3D			ZP1-5	A C 1C	ZP1-37	A C 1C

4.32 JACK CIRCUIT BOARD

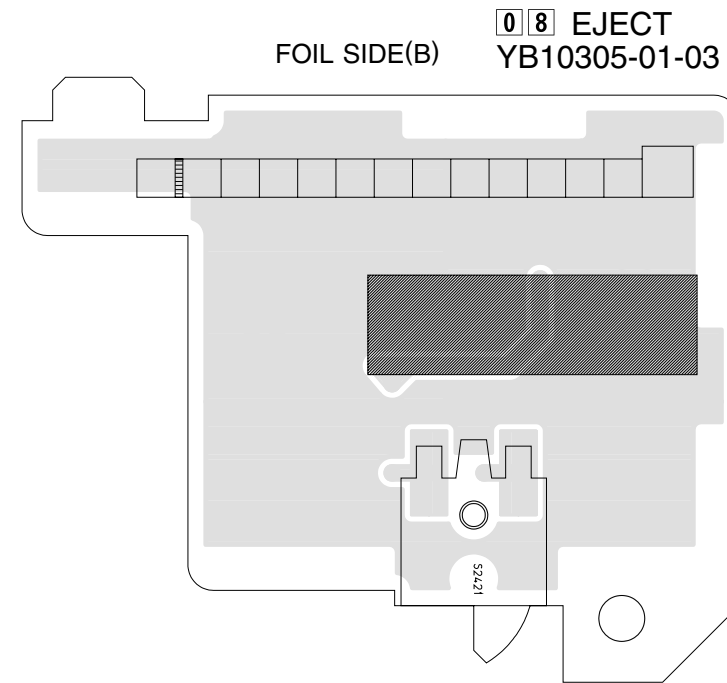


COMPONENT PARTS LOCATION GUIDE  
< JACK >

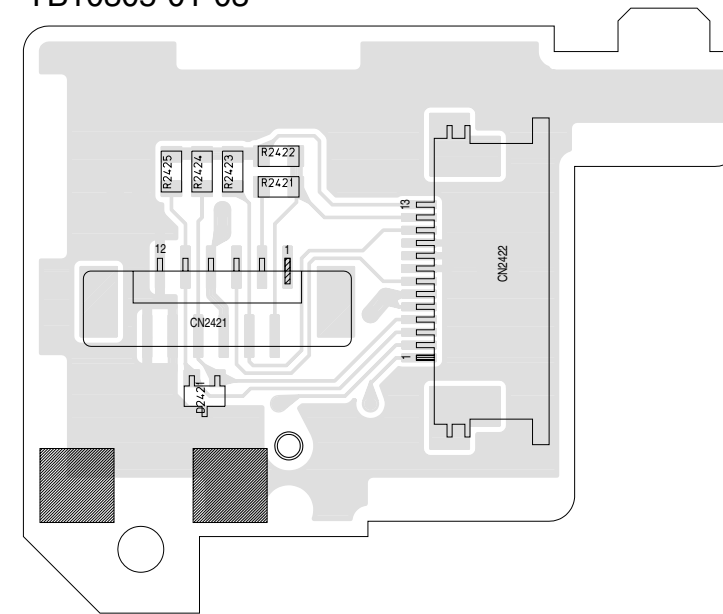
REF.NO.	LOCATION	REF.NO.	LOCATION
<b>CAPACITOR</b>			
C2801	B C 1B	R2823	B C 2B
C2802	B C 1B	R2824	B C 2B
C2821	B C 2B	R2825	B C 2B
C2841	B C 5B	R2826	B C 2B
C2842	B C 4B	R2827	B C 2B
C2843	B C 4B	R2828	B C 2B
C2844	B C 4B	R2829	B C 2B
C2845	B C 4B	R2830	B C 2B
C2846	B C 4B	R2831	B C 2B
C2847	B C 4B	R2832	B C 2B
C2848	B C 4B	R2833	B C 2B
C2849	B C 4B	R2834	A C 4B
C2881	B C 3C	R2835	A C 4B
C2882	B C 3C	R2841	B C 5B
C2883	B C 2C	R2842	B C 5B
		R2843	B C 5B
		R2844	B C 4B
		R2845	B C 4B
<b>CONNECTOR</b>			
CN301	B C 3B	R2846	B C 4B
CN302	A C 2A	R2847	B C 4B
CN303	A C 3C	R2848	B C 4B
CN304	A C 1C	R2849	B C 4B
<b>DIODE</b>			
D2801	B C 1C	R2861	B C 3B
D2821	B C 2B	R2862	B C 3B
D2822	B C 2B	R2881	B C 2B
D2823	B C 2B	R2882	B C 2C
D2824	B C 1B	R2883	B C 3B
D2825	B C 2B	R2884	B C 2B
D2841	B C 5B	R2885	B C 2C
D2842	B C 4B	R2886	B C 2B
D2843	B C 4B		
D2844	B C 4B		
<b>IC</b>			
IC2821	B C 2B	BT301	A C 1B
IC2822	B C 2B	J301	A C 5A
		J302	A D 5B
		J303	A D 5A
		PC05	A C 5C
<b>COIL</b>			
L2801	B C 1B	TL2801	B C 1B
L2821	B C 1C	TL2821	B C 1B
L2841	B C 4B	TL2841	B C 5B
L2842	B C 4B	TL2842	B C 5B
L2843	B C 4B	TL2843	B C 4B
L2844	B C 3B	TL2844	B C 4B
L2845	B C 4B	TL2881	B C 2B
		TL2882	B C 2C
<b>TRANSISTOR</b>			
Q2801	B C 1B		
Q2821	B C 2B		
<b>RESISTOR</b>			
R2431	A C 1A		
R2435	A C 1A		
R2801	B C 1B		
R2802	B C 1B		
R2803	B C 1B		
R2804	B C 1B		
R2805	B C 1B		
R2806	B C 1B		
R2807	B C 1B		
R2808	B C 1B		
R2809	B C 1B		
R2810	B C 1B		
R2811	B C 1B		
R2812	B C 1B		
R2813	B C 1B		
R2814	B C 1C		
R2815	B C 1C		
R2816	B C 1B		
R2817	B C 1B		
R2818	B C 1B		
R2819	B C 1C		
R2820	B C 1B		
R2821	B C 2B		
R2822	B C 2B		

4.33 EJECT AND DECK OPE. CIRCUIT BOARDS

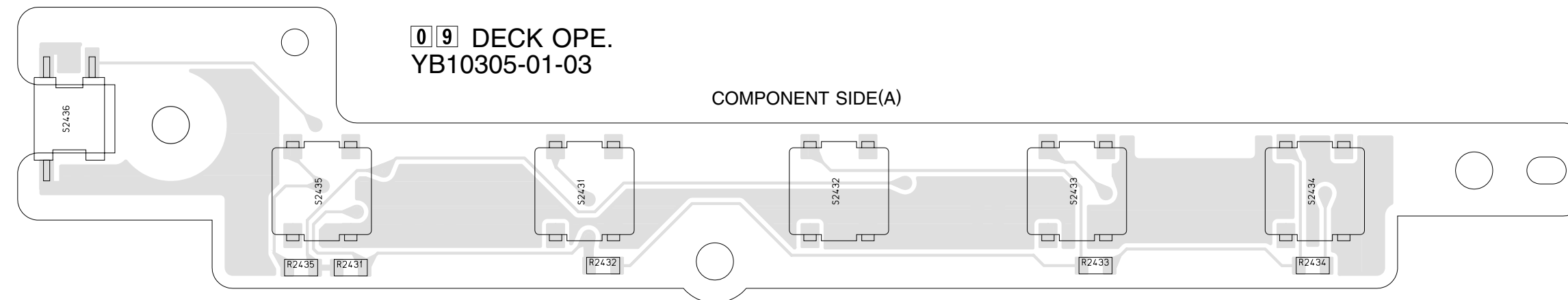
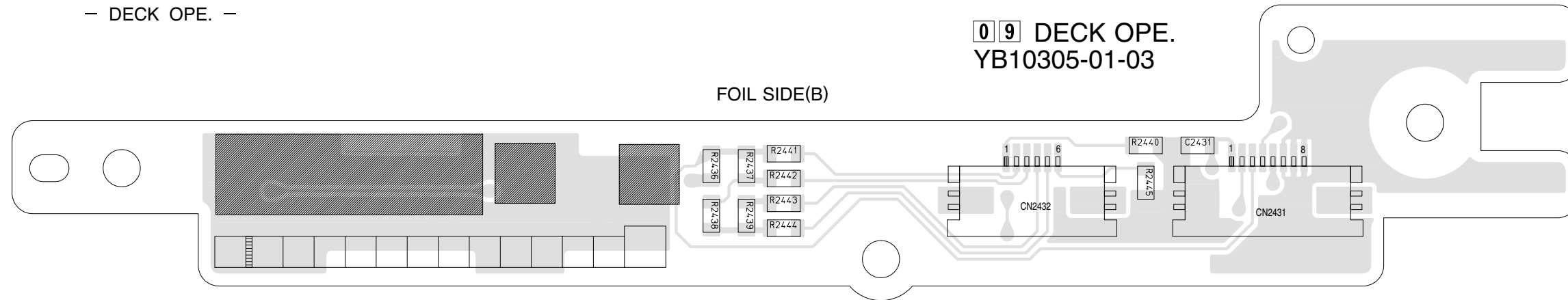
— EJECT —



**08** EJECT  
YB10305-01-03 COMPONENT SIDE(A)



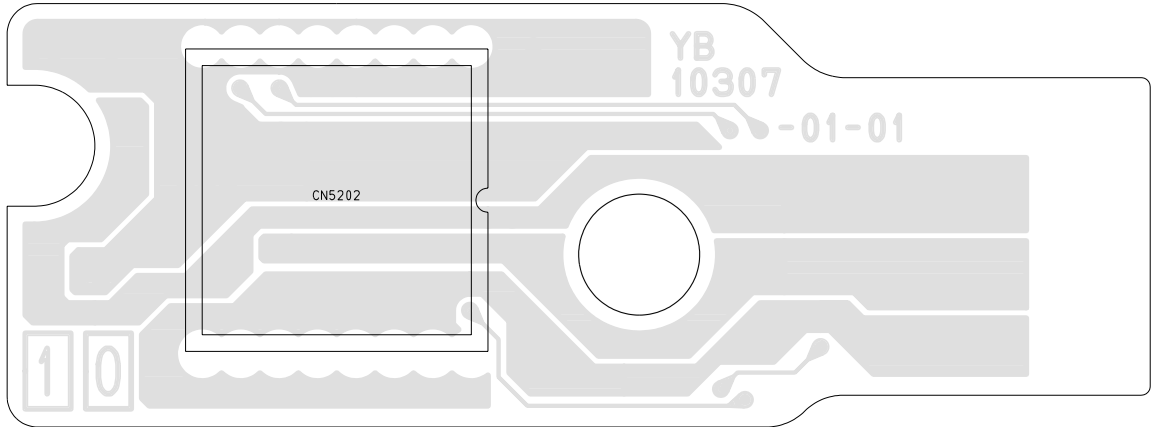
— DECK OPE. —



4.34 CCD CIRCUIT BOARD

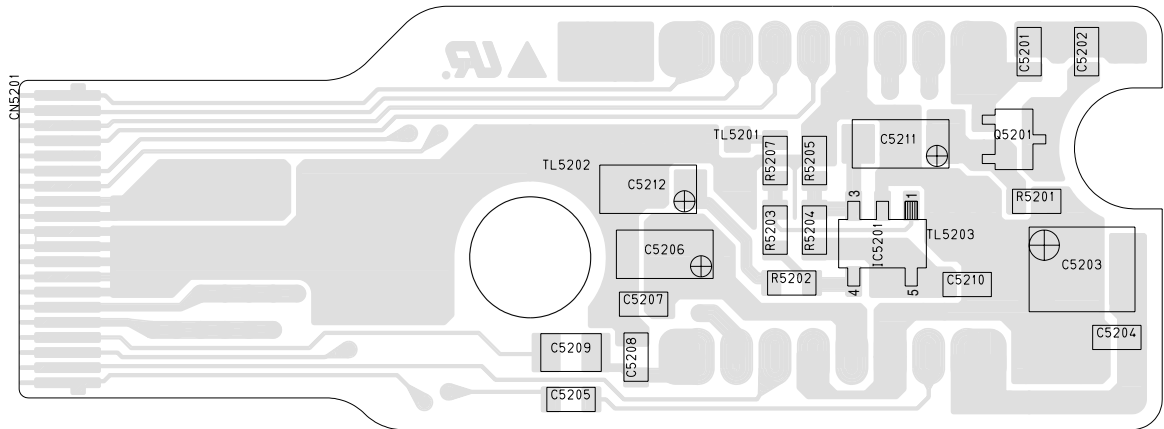
1 0 CCD  
YB10307-01-01

FOIL SIDE(B)



COMPONENT SIDE(A)

1 0 CCD  
YB10307-01-01



### 4.35 VOLTAGE CHARTS

#### <MAIN IF>

MODE PIN NO.	REC	PLAY
IC1201		
1	0	0
2	4.6	4.6
3	4.6	4.6
4	0	0
5	0	0
6	2.8	2.8
7	0	0
8	0	0
IC1301		
1	0	0
2	2.9	2.9
3	0	0
4	3.0	3.0
5	3.0	3.0
IC1302		
1	3.0	3.0
2	0	0
3	0	0
4	0	0
5	3.0	3.0
IC6001		
1	6.6	6.6
2	6.4	6.4
3	0	0
4	0	0
IC6002		
1	0	0
2	6.6	6.6
3	3.3	3.3
4	0	0
IC6003		
1	6.6	6.6
2	0	0
3	6.6	6.6
4	0	0
5	3.0	3.0
IC6004		
1	3.0	3.0
2	3.0	3.0
3	0	0
4	0	0
Q1301		
E	0	0
C	0	0
B	0	0
Q2001		
D	4.6	4.6
S	0	0
G	4.5	4.5
Q2002		
D	0	0
S	4.5	4.5
G	0	0
Q6001		
D	6.7	6.7
S	6.6	6.6
G	0	0
Q6002		
D	0	0
S	0	0
G	6.6	6.6

MODE PIN NO.	REC	PLAY
Q6003		
D	3.7	3.7
S	0	0
G	3.0	3.0
Q6004		
D	0	0
S	6.3	6.3
G	0	0
Q6005		
D	0	0
S	0	0
G	3.0	3.0
Q6006		
D	6.6	6.6
S	6.6	6.6
G	0	0
Q6007		
1(E)	0	0
2(B)	3.0	3.0
3(E)	6.7	6.7
4(C)	6.7	6.7
5(C)	0	0

#### <CPU>

MODE PIN NO.	REC	PLAY
IC1001	-	-
IC1002	-	-
IC1003		
1	3.0	3.0
2	0	0
3	2.9	2.9
4	0	0
5	2.9	2.9
6	3.0	3.0
7	2.9	2.9
8	3.0	3.0
IC1004		
1	2.9	2.9
2	3.0	3.0
3	3.0	3.0
4	0	0
5	3.0	3.0
6	2.9	2.9
7	3.0	3.0
8	3.0	3.0
IC1005		
1	2.9	2.9
2	2.9	2.9
3	2.9	2.9
4	0	0
5	3.0	3.0
6	3.0	3.0
7	2.9	2.9
8	3.0	3.0
IC1006		
1	3.0	3.0
2	0	0
3	0	0
4	0	0
5	0	0

MODE PIN NO.	REC	PLAY
6	0	0
7	3.0	3.0
8	3.0	3.0
IC1007		
1	2.9	2.9
2	2.5	2.5
3	2.9	2.9
4	2.9	2.9
5	2.9	2.9
6	3.0	3.0
7	1.3	1.3
8	1.4	1.4
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	2.9	2.9
20	2.7	2.7
IC1008		
1	2.9	2.9
2	2.9	2.9
3	3.0	3.0
4	2.9	2.9
5	2.9	2.9
6	2.9	2.9
7	0	0
8	2.9	2.9
9	3.0	3.0
10	3.0	3.0
11	3.0	3.0
12	3.0	3.0
13	2.9	2.9
14	3.0	3.0
Q1001		
E	0	0
C	0.4	0.4
B	0	0
Q1002		
E	0	0
C	3.0	3.0
B	0.5	0.5
Q1003		
E	0	0
C	0	0
B	0	0

#### <MSD CPU>

MODE PIN NO.	REC	PLAY
IC1401	-	-
IC1403	3.0	3.0
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	2.9	2.9
8	2.9	2.9
Q1401		
E	2.9	2.9
C	2.9	2.9
B	2.9	2.9
Q1402		
1(E)	0	0
2(B)	2.9	2.9
3(E)	2.9	2.9
4(C)	2.8	2.8
5(C)	0	0
Q1403		
1(E)	0	0
2(B)	0	0
3(E)	3.0	3.0
4(C)	0	0
5(C)	2.9	2.9
Q1404		
E	0	0
C	0	0
B	3.0	3.0

#### <DV MAIN>

MODE PIN NO.	REC	PLAY
IC3001	-	-
IC3002	-	-
IC3302	-	-

#### <V OUT>

MODE PIN NO.	REC	PLAY
IC3701		
1	1.9	1.9
2	1.3	1.3
3	1.3	1.3
4	1.1	1.1
5	0	0
6	0	0
7	0	0
8	0	0
9	2.6	2.6
10	2.6	2.6
11	1.9	1.9
12	2.1	2.1
13	0	0
14	2.0	2.0
15	4.6	4.6
16	3.0	3.0

MODE PIN NO.	REC	PLAY
17	0	0
18	1.2	1.2
19	1.7	1.7
20	1.8	1.8
IC3702		
1	4.6	4.6
2	0	0
3	1.2	1.2
4	3.0	3.0
5	4.5	4.5
Q3701		
E	0	0
C	1.1	1.1
B	0	0
Q3702		
E	0	0
C	4.6	4.6
B	0	0

#### <ANA IN>

##### [GR-DV2000EG/EK]

MODE PIN NO.	REC	PLAY
IC3901		
1	0	0
2	2.9	2.9
3	1.1	1.1
4	0.6	0.6
5	0	0
6	1.6	1.6
7	0.6	0.6
8	1.1	1.1
9	0	0
10	2.9	2.9
11	0.5	0.5
12	0	0
13	0	0
14	2.9	2.9
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	1.7	1.7
24	2.8	2.8
25	1.5	1.5
26	0.9	0.9
27	1.0	1.0
28	1.2	1.2
29	1.3	1.3
30	0	0
31	2.9	2.9
32	1.3	1.3
33	1.3	1.3
34	1.3	1.3
35	1.2	1.2
36	2.7	2.7
37	1.5	1.5
38	1.3	1.3



MODE PIN NO.	REC	PLAY
39	1.2	1.2
40	1.4	1.4
41	1.3	1.3
42	1.3	1.3
43	1.5	1.5
44	1.4	1.4
45	1.5	1.5
46	0	0
47	0	0
48	0	0
49	2.9	2.9
50	2.9	2.9
51	2.9	2.9
52	0	0
53	1.6	1.6
54	1.4	1.4
55	3.0	3.0
56	0	0
57	0	0
58	2.9	2.9
59	2.7	2.7
60	2.8	2.8
61	1.4	1.4
62	0	0
63	2.9	2.9
64	0	0
65	0	0
66	0	0
67	0	0
68	0	0
69	0	0
70	0	0
71	0	0
72	0	0
73	2.9	2.9
74	1.1	1.1
75	0.5	0.5
76	0	0
77	1.6	1.6
78	0.5	0.5
79	1.1	1.1
80	0.5	0.5
IC3903		
1	0	0
2	2.7	2.7
3	0	0
4	0	0
5	2.9	2.9
IC3951		
1	3.0	3.0
2	2.1	2.1
3	4.6	4.6
4	1.7	1.7
5	0	0
6	2.4	2.4
Q3951		
1(E)	0	0
2(B)	0.5	0.5
3(C)	0	0
4(E)	2.1	2.1
5(B)	1.5	1.5
6(C)	4.6	4.6

MODE PIN NO.	REC	PLAY
Q3952		
E	0	0
C	0	0
B	3.0	3.0
Q3953		
1(E)	0	0
2(B)	0.4	0.4
3(C)	0	0
4(E)	4.5	4.5
5(B)	4.6	4.6
6(C)	4.6	4.6
Q3954		
E	0	0
C	4.6	4.6
B	0	0

<TG/VDR>

MODE PIN NO.	REC	PLAY
IC5001		
1	0	0
2	3.0	3.0
3	0	0
4	0	0
5	3.0	3.0
6	3.0	3.0
7	0	0
8	2.9	2.9
9	3.0	3.0
10	3.0	3.0
11	3.4	3.4
12	0	0
13	0	0
14	0	0
15	1.5	0
16	0	0
17	0	0
18	1.1	0
19	3.4	3.4
20	1.9	0
21	2.0	0
22	3.0	3.0
23	0	0
24	0.8	0
25	2.6	0
26	3.0	0
27	3.0	0
28	0	0
29	0	0
30	0	0
31	1.4	0.9
32	0	0
33	3.0	3.0
34	0	0
35	0.8	0
36	1.1	0
37	0.7	0
38	3.0	3.0
39	0	0
40	0	0
41	0	0

MODE PIN NO.	REC	PLAY
42	1.4	1.4
43	0	0
44	0.6	0.6
45	0	0
46	0	0
47	1.5	1.5
48	1.5	0
49	1.5	0
50	0	0
51	0	0
52	-7.3	0
53	0	0
54	14.9	14.9
55	0	0
56	0	0
57	0	0
58	0	0
59	0	0
60	-7.3	0
61	-7.6	-7.6
62	-7.3	0
63	-7.6	-7.6
64	0	0
IC5002		
1	4.6	4.6
2	0	0
3	1.2	1.2
4	3.4	3.4
5	4.6	4.6
IC5004		
1	0.9	0
2	0.9	0.9
3	0	0
4	0	0
5	3.0	3.0
6	1.3	1.3
7	3.0	3.0
8	0.5	1.4

<CDS/AD>

MODE PIN NO.	REC	PLAY
IC4201		
1	0	0
2	1.2	0
3	1.2	0
4	1.2	0
5	1.2	0
6	1.0	0
7	1.4	3.1
8	1.3	0
9	0.6	0
10	0.7	0
11	0	0
12	0	0
13	0	0
14	0	0
15	3.1	3.1
16	0.9	0
17	3.0	0
18	1.9	0

MODE PIN NO.	REC	PLAY
19	2.0	0
20	2.6	0
21	0	0
22	0	0
23	3.0	3.0
24	0	0
25	0	0
26	2.1	0.7
27	1.5	0
28	2.0	0
29	2.0	0
30	0	0
31	3.0	3.0
32	2.0	1.3
33	1.0	1.2
34	1.5	1.1
35	1.2	0
36	0	0
37	0	0
38	3.0	3.0
39	0	0
40	0	0
41	3.0	3.0
42	0	0
43	3.0	3.0
44	2.9	2.9
45	2.9	2.9
46	3.1	3.1
47	-	-
48	-	-
IC4202		
1	3.0	3.0
2	4.6	4.6
3	0	0

<DSP>

MODE PIN NO.	REC	PLAY
IC4301	-	-
IC4302		
1	2.9	2.9
2	0	0
3	1.2	1.2
4	2.5	2.5
5	2.9	2.9
IC4401		
1	0	0
2	1.2	1.2
3	1.2	1.2
4	0.6	0.6
5	0.8	0.8
6	1.4	1.4
7	1.1	1.1
8	1.3	1.3
9	1.2	1.2
10	3.0	3.0
11	3.0	3.0
12	1.4	1.4
13	1.4	1.4
14	2.2	1.5
15	0	0

MODE PIN NO.	REC	PLAY
16	2.9	2.9
17	2.9	2.9
18	1.3	1.3
19	1.5	1.5
20	0	0
Q4351	-	-
Q4352	-	-
Q4353	-	-
Q4354	-	-

<OP DRIVE>

MODE PIN NO.	REC	PLAY
IC4802		
1	2.5	2.5
2	2.1	2.1
3	2.0	2.0
4	0	0
5	2.1	2.1
6	2.0	2.0
7	2.1	2.1
8	4.6	4.6
IC4803		
1	1.1	1.1
2	0.5	0.5
3	0.4	0.4
4	0	0
5	2.1	2.1
6	2.1	2.1
7	1.7	0.5
8	4.6	4.6
IC4804		
1	2.1	0.7
2	2.0	2.3
3	2.0	2.0
4	0	0
5	2.1	2.1
6	2.1	1.6
7	2.0	3.9
8	4.6	4.6
IC4805		
1	2.1	0
2	1.8	0.5
3	1.8	0
4	0	0
5	1.9	1.9
6	2.1	2.1
7	2.0	2.0
8	4.6	4.6
IC4806		
1	1.8	0
2	1.8	0
3	1.8	0
4	0	0
5	3.0	3.0
6	1.2	2.9
7	1.2	2.9
8	3.0	3.0

MODE PIN NO.	REC	PLAY
IC4807		
1	2.0	2.0
2	2.0	2.0
3	4.5	4.5
4	0	0
5	2.0	2.0
6	2.0	2.0
7	4.5	4.5
8	4.6	4.6
IC4808		
1	2.1	1.6
2	2.0	3.9
3	0	0
4	2.1	1.7
5	4.6	4.6
IC4851		
1	0	0
2	0.6	0.6
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	3.0	3.0
9	6.7	6.7
10	0	0
11	0	0
12	0	0
13	6.7	6.7
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	6.7	6.7
24	0	0
25	0	0
26	0	0
27	6.7	6.7
28	0	0
29	0	0
30	0	0
31	3.0	3.0
32	0	0
33	0	0
34	2.8	2.8
35	2.9	2.9
36	1.5	1.5
37	1.4	1.4
38	2.9	2.9
IC4901	-	-
IC4902	-	-
IC4903	-	-
IC4904	-	-
Q4801		
E	0.5	0.5
C	1.6	1.6
B	1.1	1.1

MODE PIN NO.	REC	PLAY
Q4802		
E	0	0
C	2.0	3.9
B	0	0
Q4803		
E	0	0
C	4.5	4.5
B	0	0
Q4804		
E	4.6	4.6
C	2.1	1.7
B	4.5	4.5
Q4851		
E	0	0
C	3.5	3.5
B	0	0
Q4901	-	-

<DSC>

MODE PIN NO.	REC	PLAY
IC8001	-	-
IC8003	-	-
IC8004		
1	0	0
2	0	0
3	2.9	2.9
4	2.9	2.9
5	3.0	3.0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	2.9	2.9
12	2.9	2.9
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	3.0	3.0
26	2.9	2.9
27	0	0
28	2.9	2.9
29	2.9	2.9
30	2.9	2.9
31	2.9	2.9
32	2.9	2.9
33	2.9	2.9
34	2.9	2.9
35	2.9	2.9
36	2.9	2.9
37	2.9	2.9

MODE PIN NO.	REC	PLAY
38	2.9	2.9
39	2.9	2.9
40	2.9	2.9
41	2.9	2.9
42	2.9	2.9
43	2.9	2.9
44	2.9	2.9
45	2.9	2.9
46	0	0
47	2.9	2.9
48	0	0
IC8006	-	-
IC8007	-	-
IC8008	-	-
IC8009	-	-

<P SHIFT>

MODE PIN NO.	REC	PLAY
IC8201	-	-
IC8202	-	-
IC8203	-	-
IC8204	-	-

<USB>

MODE PIN NO.	REC	PLAY
IC8401	-	-
IC8402	-	-
Q8401		
E	3.3	3.3
C	0	0
B	3.3	3.3

<MDA>

MODE PIN NO.	REC	PLAY
IC1601		
1	0	0
2	1.1	1.1
3	1.1	1.1
4	0	0
5	1.1	1.1
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	4.6	4.6
15	0	0
16	0.4	0.4
17	0	0
18	0.4	0.4
19	0	0

MODE PIN NO.	REC	PLAY
20	0.5	0.5
21	0	0
22	0	0
23	0.8	0.8
24	6.6	6.6
25	1.5	1.5
26	1.5	1.5
27	1.5	1.5
28	1.5	1.5
29	1.5	1.5
30	1.5	1.5
31	1.5	1.5
32	1.5	1.5
33	-	-
34	1.5	1.5
35	3.0	3.0
36	3.0	3.0
37	0.4	0.4
38	0.7	0.7
39	0.7	0.7
40	1.2	1.2
41	1.5	1.5
42	1.5	0.6
43	2.9	2.9
44	0	0
45	0	0
46	0	0
47	2.9	2.9
48	0	0
49	3.0	3.0
50	1.9	1.9
51	0	0
52	1.3	1.3
53	1.0	1.0
54	1.4	0.7
55	0.6	0.6
56	0.7	0.7
57	1.0	1.0
58	0.6	0.6
59	0	0
60	1.0	1.0
61	2.7	2.7
62	1.1	1.1
63	1.5	1.5
64	1.4	1.4
65	1.5	1.5
66	1.4	1.4
67	1.5	1.5
68	0.6	0.6
69	0	0
70	1.1	1.1
71	1.1	1.1
72	1.1	1.1
73	1.1	1.1
74	1.1	1.1
75	0.4	0.4
76	0	0
77	6.7	6.7
78	2.4	2.4
79	0	0
80	0	0

MODE PIN NO.	REC	PLAY
IC1701		
1	-	-
2	1.4	1.4
3	1.4	1.4
4	0	0
5	1.4	1.4
6	1.4	1.4
7	-	-
8	4.6	4.6
IC1702		
1	-	-
2	1.4	1.4
3	-	-
4	0	0
5	-	-
6	1.4	1.4
7	-	-
8	4.6	4.6
Q1601		
1(E)	0	0
2(B)	0	0
3(E)	4.6	4.6
4(C)	0	0
5(C)	4.6	4.6

<PRE/REC>

MODE PIN NO.	REC	PLAY
IC3501		
1	0	0
2	1.1	1.1
3	0	0
4	0.9	1.6
5	2.5	2.5
6	2.2	1.5
7	1.4	0
8	0	0
9	3.7	0
10	1.1	1.1
11	2.9	2.9
12	0	0
13	4.5	4.5
14	0	0
15	0	0
16	0	0
17	0	0
18	3.7	1.6
19	3.7	1.6
20	3.7	1.6
21	3.7	1.6
22	0	0
23	3.7	1.6
24	3.7	1.6
25	3.7	1.6
26	3.7	1.6
27	0	0
28	1.8	1.8
29	3.7	1.7
30	3.7	1.7
31	1.8	1.8
32	0	0

MODE PIN NO.	REC	PLAY
33	0	0
34	0	0
35	1.8	1.8
36	0.5	0.5
37	2.9	2.9
38	0	2.9
39	3.0	3.0
40	1.5	1.5
41	0	2.9
42	2.9	0
43	4.6	4.6
44	2.9	0
45	0	0
46	0	1.8
47	0	1.8
48	4.4	2.9
49	4.1	2.6
50	0.6	1.6
51	1.4	1.4
52	0.8	1.5
53	0	0
54	2.9	2.6
55	2.5	1.9
56	1.1	1.1
57	2.5	1.9
58	2.5	1.3
59	0	0
60	1.2	1.2
61	2.8	1.9
62	2.5	1.9
63	2.5	1.3
64	2.5	1.9

<AUDIO>

MODE PIN NO.	REC	PLAY
IC1101		
1	2.3	2.3
2	2.3	2.3
3	2.3	2.3
4	0	0
5	2.3	2.3
6	2.3	2.3
7	1.2	1.6
8	4.6	4.6
IC2201		
1	1.8	3.3
2	1.8	0
3	1.8	3.3
4	1.8	1.8
5	1.4	1.4
6	1.4	1.4
7	1.4	1.4
8	0	0
9	2.9	2.9

MODE PIN NO.	REC	PLAY
10	1.5	1.5
11	1.4	1.4
12	1.4	1.4
13	1.4	1.4
14	1.4	1.4
15	1.4	1.4
16	0	0
17	1.3	1.3
18	1.4	1.4
19	2.3	2.3
20	1.4	1.4
21	2.3	2.3
22	2.3	2.3
23	4.5	4.5
24	0	0
25	0	0
26	0	0
27	2.9	2.9
28	0	0
29	1.4	0
30	1.4	1.4
31	2.9	2.9
32	3.0	3.0
33	2.9	2.9
34	1.4	1.4
35	1.5	1.5
36	1.3	0
37	3.0	3.0
38	0	0
39	0	0
40	0	0
41	0	0
42	0	0
43	4.4	4.4
44	1.5	1.5
45	1.8	1.8
46	1.8	3.3
47	1.8	0.8
48	0	0
49	1.8	0.6
50	1.8	0.9
51	1.8	0.9
52	2.3	0
53	1.8	0
54	1.8	0
55	3.5	3.8
56	1.8	2.0
57	0	0
58	3.6	4.0
59	1.8	0
60	1.8	0
61	1.8	3.3
62	1.8	0
63	1.8	0
64	1.8	0
Q1151		
E	0	0
C	4.1	4.1
Q2201		
E	0	0
C	0	0
B	0.7	0.7

MODE PIN NO.	REC	PLAY
Q2202		
E	3.6	3.6
C	4.6	4.6
B	4.3	4.3
Q2203		
E	4.5	4.5
C	6.7	6.7
B	5.2	5.2
Q2601		
E	0	0
C	0	0
B	0	0
Q2602		
E	0	4.0
C	0	4.6
B	0	4.5
Q2603		
E	2.4	4.0
C	1.4	0
B	1.8	3.3
Q2604		
E	2.4	4.0
C	1.4	1.4
B	1.8	3.3
Q2605		
E	2.9	2.9
C	0	0
B	2.9	2.9
Q2701		
E	0	0
C	0	0
B	0	0
Q2702		
E	0	0
C	0	0
B	0	0
Q2703		
E	0	0
C	0	0
B	0	0
Q2704		
E	0	0
C	0	0
B	0	0
Q2901		
E	6.7	6.7
C	0	0
B	6.7	6.7
Q2902		
E	0	0
C	6.7	6.7
B	0	0
Q2903		
E	0	0
C	0	1.9
B	3.0	0
Q2904		
E	0	0
C	0	0
B	1.7	1.7

<REG>

MODE PIN NO.	REC	PLAY
IC6101		
1	2.2	2.2
2	1.2	1.2
3	2.2	2.2
4	0	0
5	6.6	6.6
6	1.0	1.0
7	1.2	1.2
8	2.2	2.2
9	0	0
10	0	0
11	0.8	0.8
12	1.0	1.0
13	1.0	1.0
14	0.6	0.6
15	0	0
16	0	0
17	0.6	0.6
18	1.0	1.0
19	1.0	1.0
20	1.0	1.0
21	1.0	1.0
22	0.9	0.9
23	1.0	1.0
24	1.0	1.0
25	1.0	1.0
26	0.7	0.7
27	0	0
28	1.0	1.0
29	0	0
30	2.4	2.4
31	0.7	0.7
32	0.7	0.7
33	6.5	6.5
34	6.5	6.5
35	3.0	3.0
36	2.9	2.9
37	0	0
38	4.2	4.2
39	3.4	3.4
40	2.8	2.8
41	0	0
42	1.9	1.9
43	1.3	1.3
44	5.5	5.5
45	4.7	4.7
46	2.6	2.6
47	0	0
48	2.2	2.2

<JACK>

MODE PIN NO.	REC	PLAY
IC2822		
1	0	0
2	3.0	3.0
3	0	0
4	0	0
5	3.0	3.0
Q2801		
E	0	0
C	2.9	2.9
B	0	0
Q2821		
E	0	0
C	0.5	0.5
B	0	0

<MONITOR>

MODE PIN NO.	REC	PLAY
Q6101		
D	6.6	6.4
S	3.0	3.0
G	3.4	3.2
Q6103		
D	6.6	6.6
S	1.7	1.7
G	4.8	4.8
Q6105		
D	6.6	6.6
S	2.4	2.4
G	4.2	4.2
Q6106		
D	6.6	6.6
S	1.0	1.0
G	5.5	5.5
Q6107	-	-
Q6108		
D	6.6	6.6
S	0	0
G	2.6	2.6
Q6109		
1	4.1	4.1
2	4.7	4.7
3	15.2	15.2
4	4.1	4.1
5	4.6	4.6
6	15.9	15.9
Q6110	-	-
Q6111	-	-
Q6112	-	-
Q6113		
1	-7.1	-7.3
2	-7.7	-7.7
3	-11.9	-15.7
4	-7.2	-7.2
5	-7.6	-7.6
6	-16.2	-16.2
Q6114	-	-

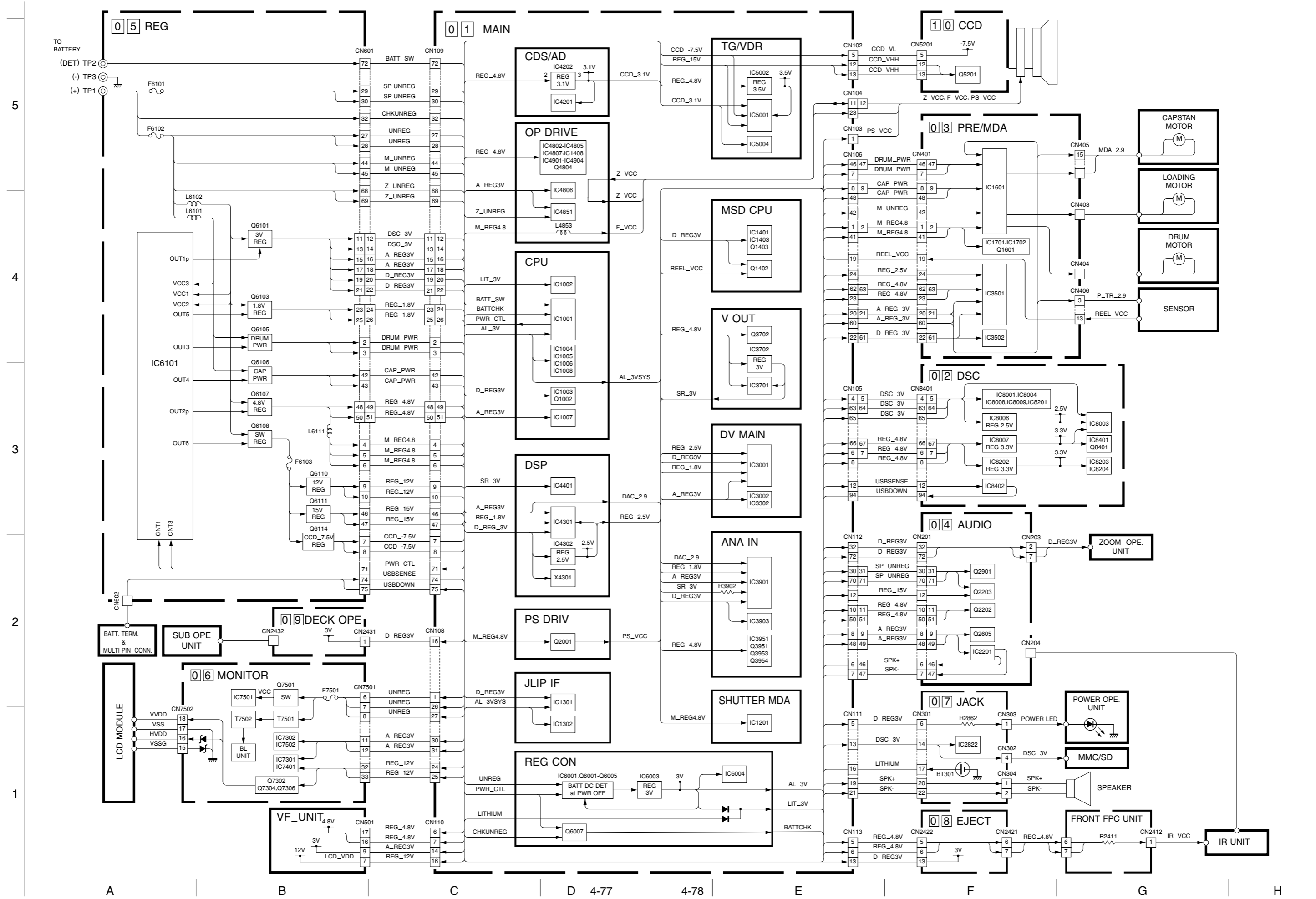
MODE PIN NO.	EE
IC7301	
1	0
2	2.4
3	1.7
4	0.4
5	0.3
6	2.9
7	1.5
8	1.1
9	0
10	0
11	2.9
12	0
13	2.8
14	3.0
15	2.9
16	1.3
17	0.6
18	0
19	2.9
20	2.9
21	1.3
22	1.4
23	0
24	1.4
25	2.8
26	0
27	0
28	0
29	0
30	5.8
31	1.7
32	5.8
33	1.7
34	5.8
35	1.7
36	5.8
37	11.6
38	1.7
39	5.9
40	0
41	11.6
42	5.6
43	0
44	1.5
45	2.9
46	0
47	0
48	0
49	0.9
50	2.9
51	0.9
52	0.9
53	0
54	0
55	0
56	0
57	0
58	0
59	0
60	0
61	1.4
62	1.4

MODE PIN NO.	EE
63	2.9
64	0
65	2.7
66	1.5
67	0
68	2.9
69	1.3
70	1.8
71	1.8
72	1.8
IC7302	
1	2.9
2	1.3
3	2.9
4	0
5	2.9
6	2.9
7	2.9
8	2.9
IC7401	
1	0
2	2.9
3	2.5
4	2.9
5	2.9
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	2.9
15	2.9
16	1.3
17	0.7
18	0
19	2.9
20	2.9
21	1.4
22	1.4
23	0
24	1.4
25	2.8
26	0
27	0
28	0
29	0
30	5.8
31	1.7
32	5.8
33	1.7
34	5.8
35	1.7
36	5.8
37	11.6
38	1.7
39	5.9
40	0
41	11.6
42	5.6
43	0
44	1.5
45	2.9
46	0
47	0
48	0
49	0.9
50	2.9
51	0.9
52	0.9
53	0
54	0
55	0
56	0
57	0
58	0
59	0
60	0
61	1.4
62	1.4

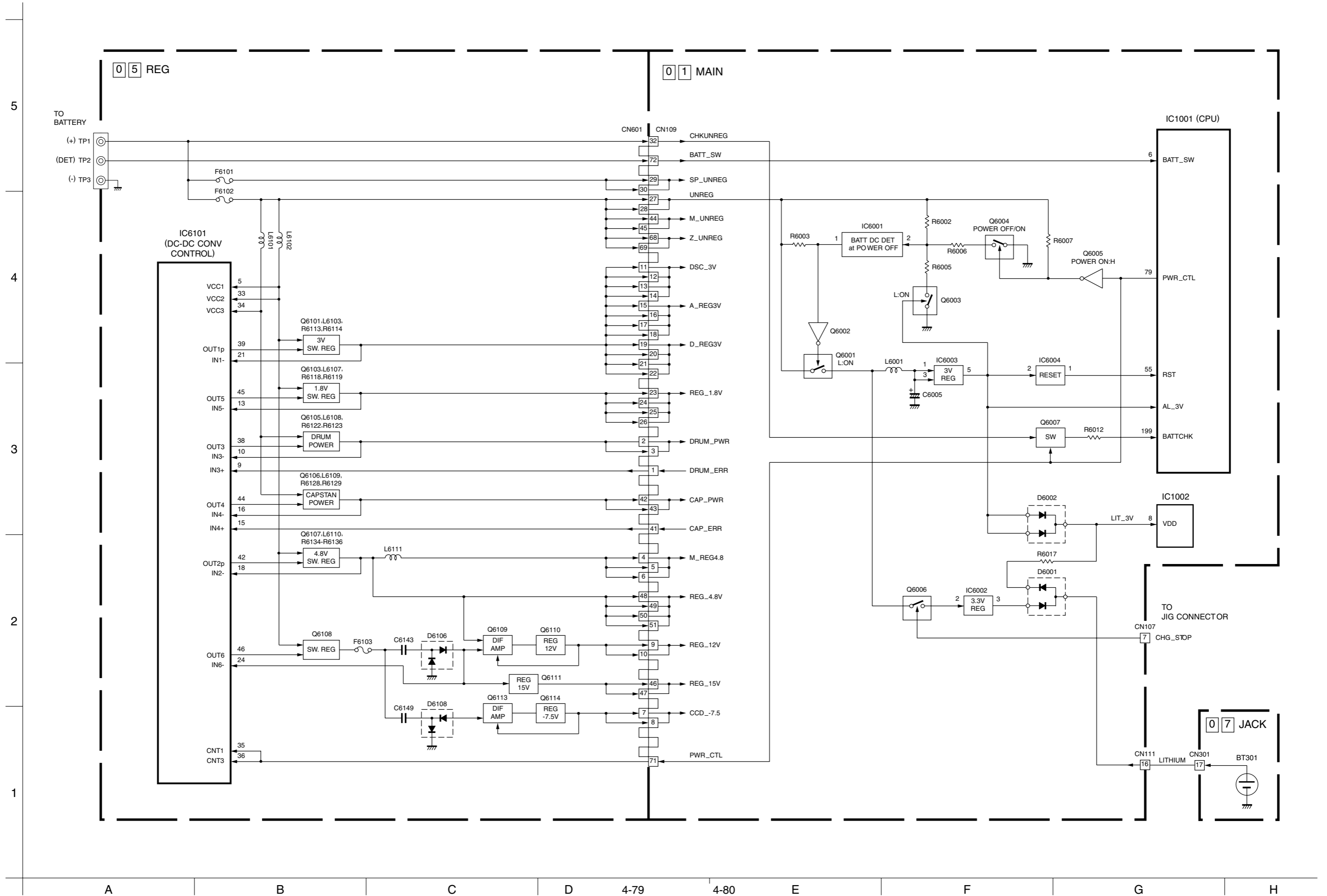
MODE PIN NO.	EE
44	0
45	0
46	0
47	0
48	0
49	0
50	0
51	0
52	0
53	0
54	0
55	2.9
56	0
57	0
58	0
59	0
60	0
61	0
62	0
63	2.9
64	0
65	0
66	0
67	0
68	0
69	0.5
70	0
71	0
72	0
IC7501	
1	1.7
2	1.0
3	0.9
4	1.0
5	0.7
6	2.4
7	0
8	0
9	6.6
10	2.1
11	0.4
12	1.9
13	-
14	1.2
15	0
16	2.5
IC7502	
1	0
2	2.9
3	0
4	0
5	2.9
Q7301	
E	1.2
C	0
B	0.6
Q7302	
E	11.7
C	11.6
B	10.9

MODE PIN NO.	EE
Q7303	
E	0
C	0
B	2.9
Q7304	
E	5.4
C	11.6
B	5.9
Q7305	
E	6.4
C	0
B	5.9
Q7306	
E	5.9
C	11.7
B	6.4
Q7307	
E	5.9
C	0
B	5.4
Q7401	
E	1.

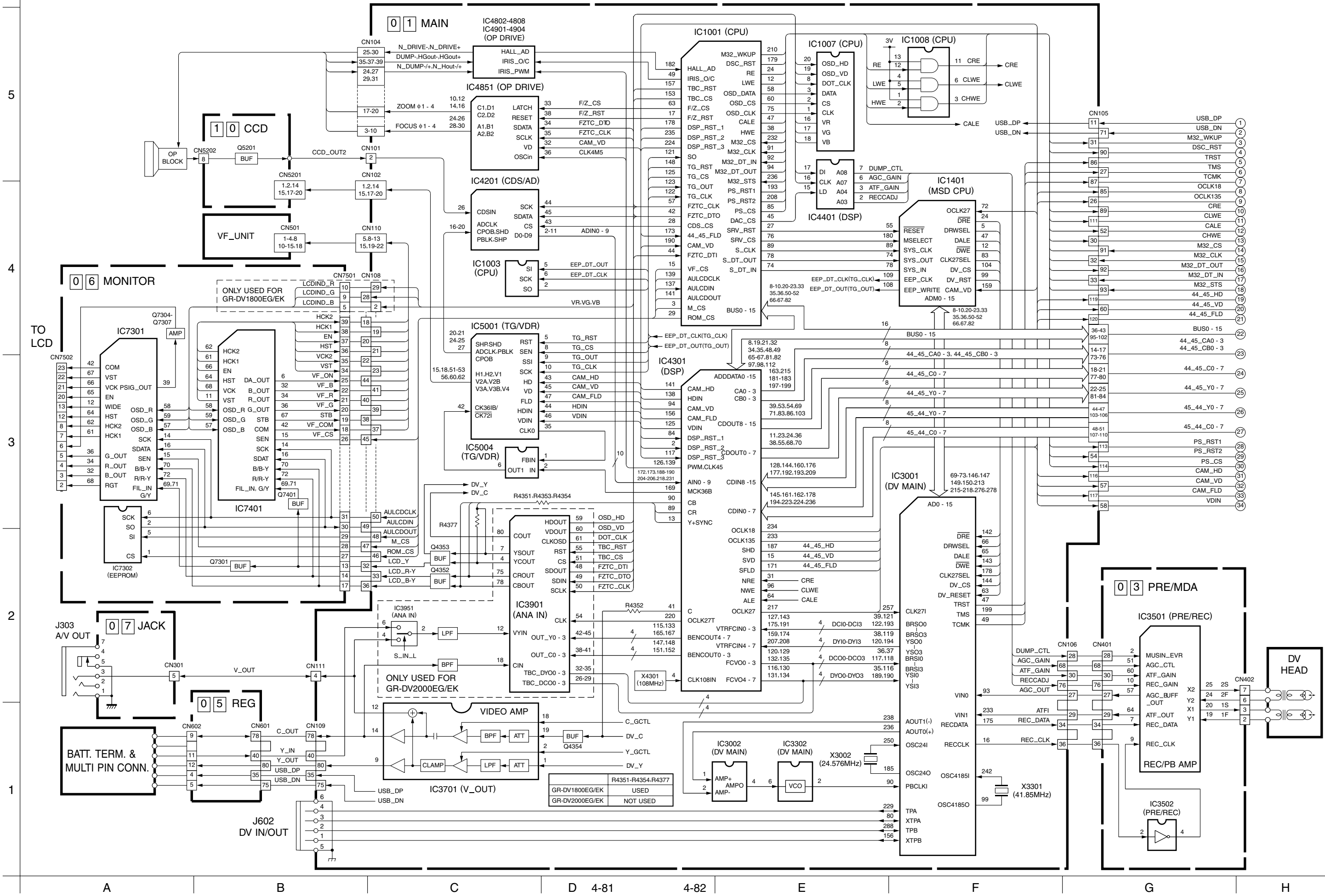
4.36 POWER SYSTEM BLOCK DIAGRAM



### 4.37 REGULATOR SYSTEM BLOCK DIAGRAM



4.38 VIDEO SYSTEM BLOCK DIAGRAM



5

4

3

2

1

A

B

C

D 4-81

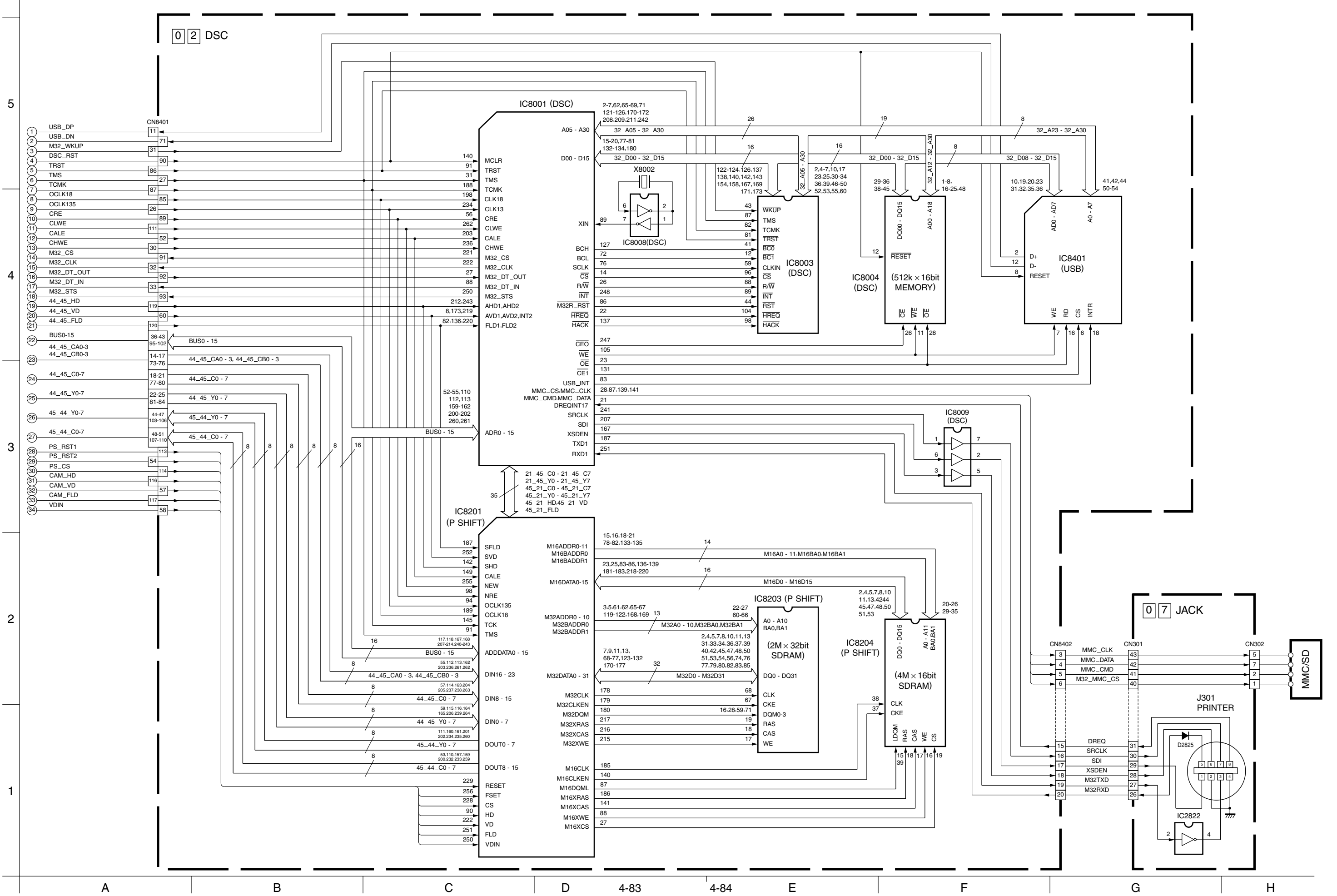
4-82

E

F

G

H



4.39 AUDIO SYSTEM BLOCK DIAGRAM

