


## 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

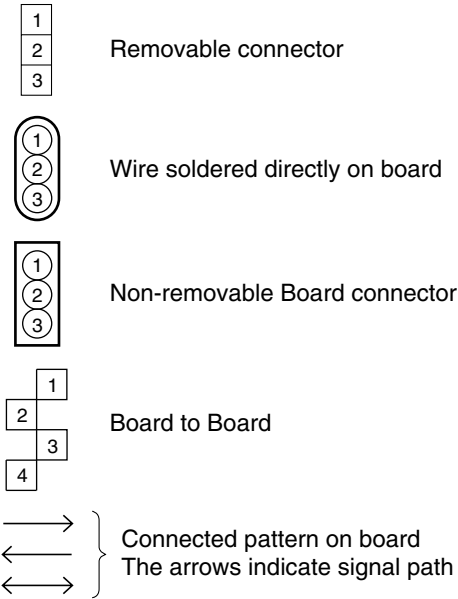
Unless otherwise specified.

- 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

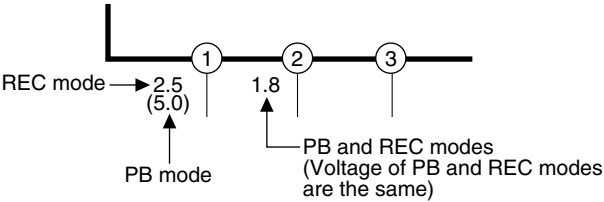
AUX : Active at high.  
 $\overline{\text{AUX}}$  or AUX(L) : Active at low.

##### 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.

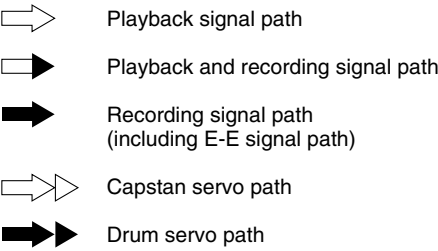


**Note:** If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

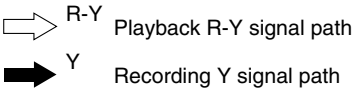
##### 5. Signal path Symbols

The arrows indicate the signal path as follows.

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

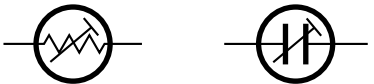


(Example)



##### 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.



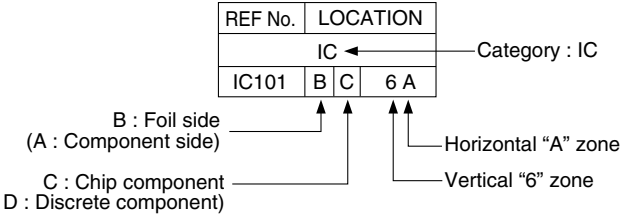
#### CIRCUIT BOARD NOTES

##### 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

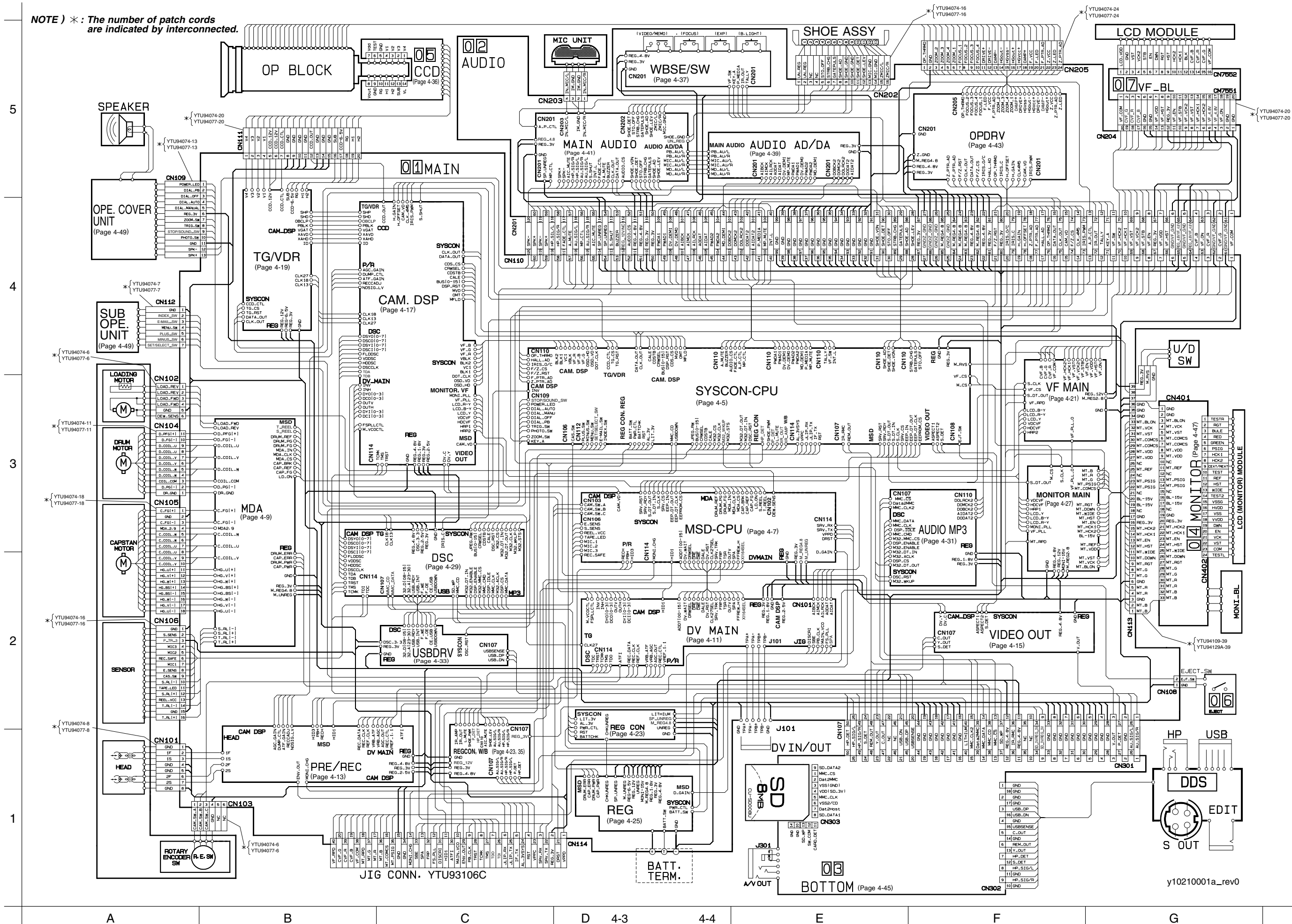
Parts location are indicated by guide scale on the circuit board.



**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

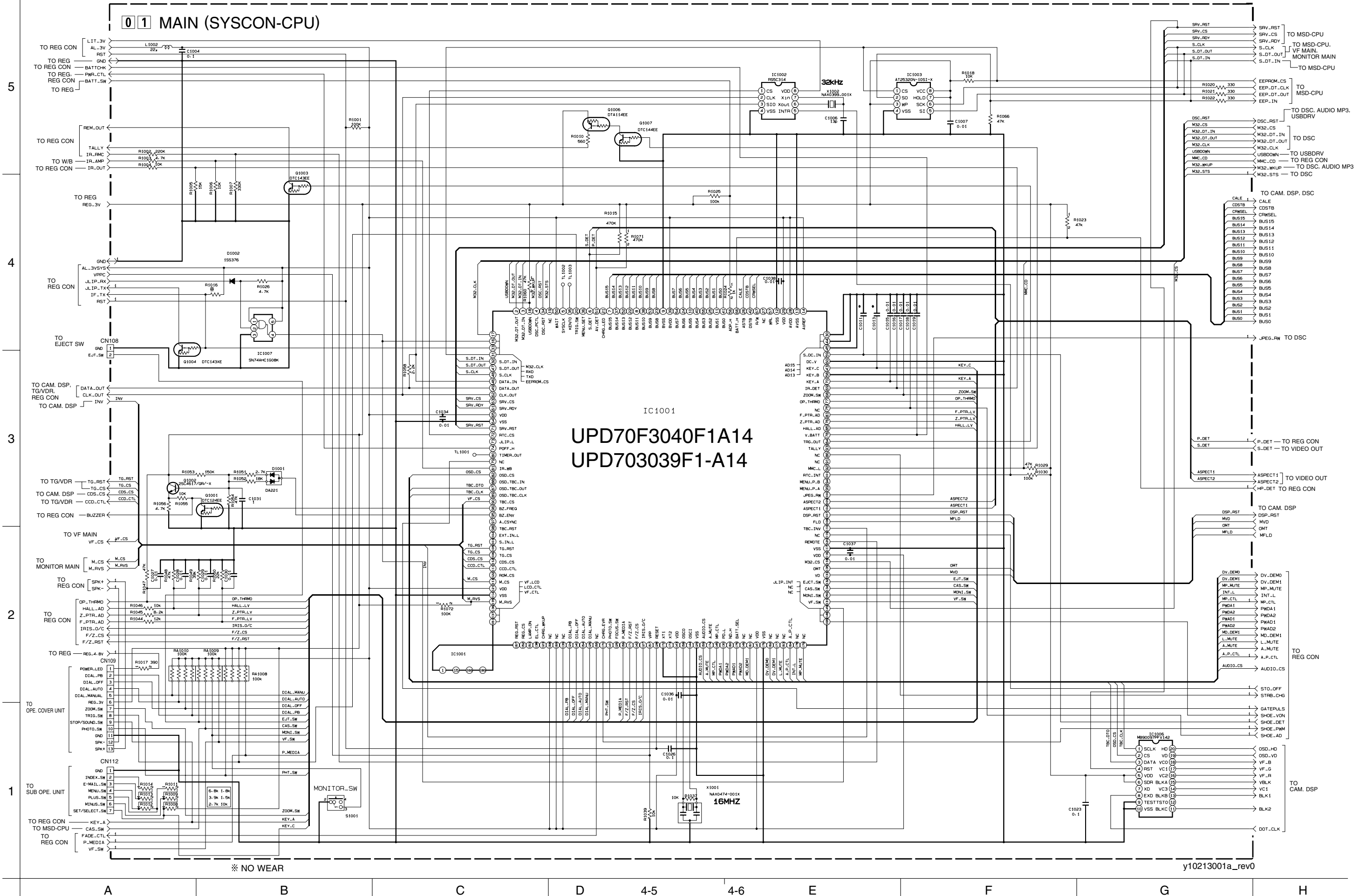
**NOTE ) \* : The number of patch cords are indicated by interconnected.**



## 4.2 SYSCON-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".

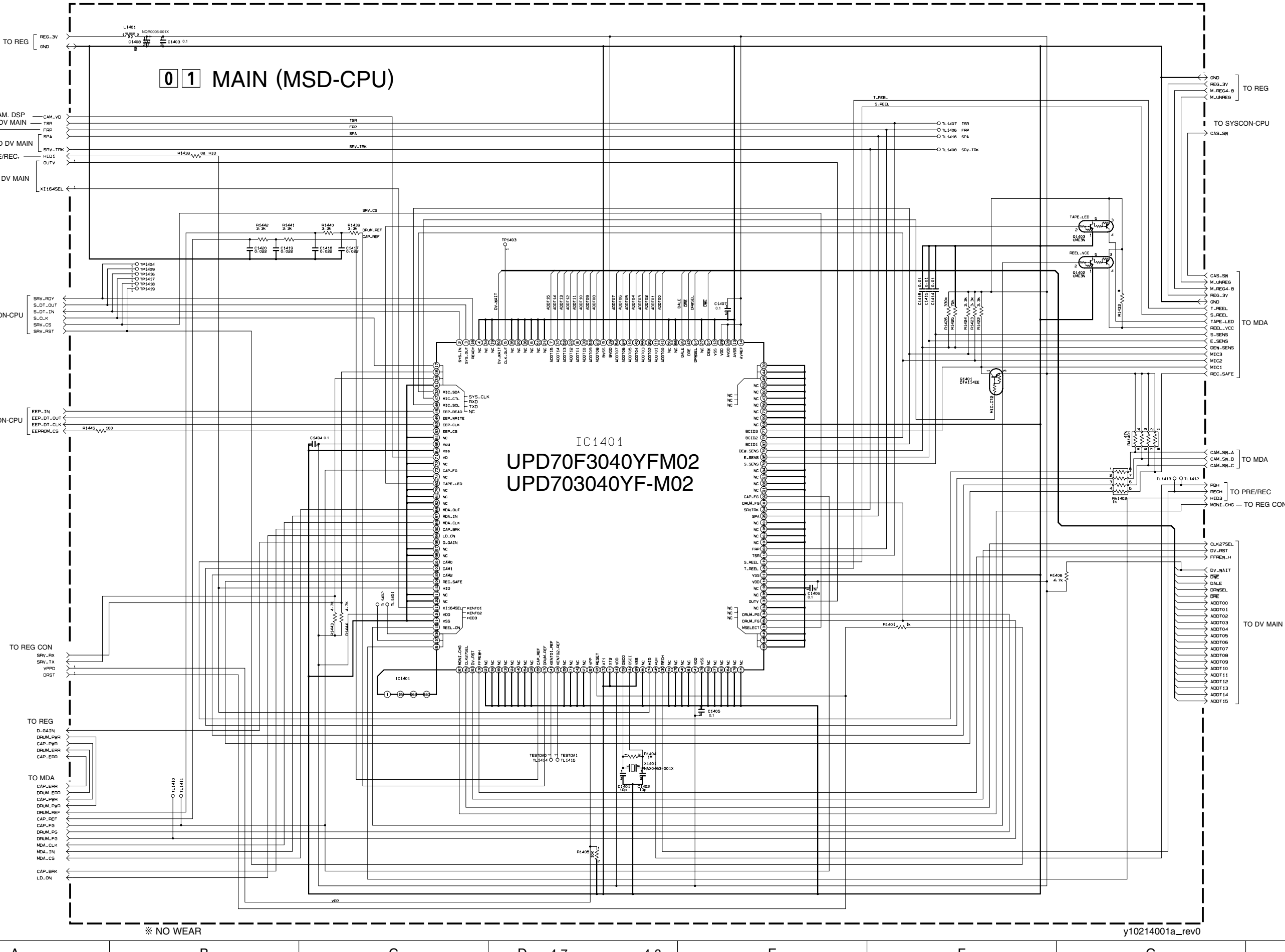
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



### 4.3 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.

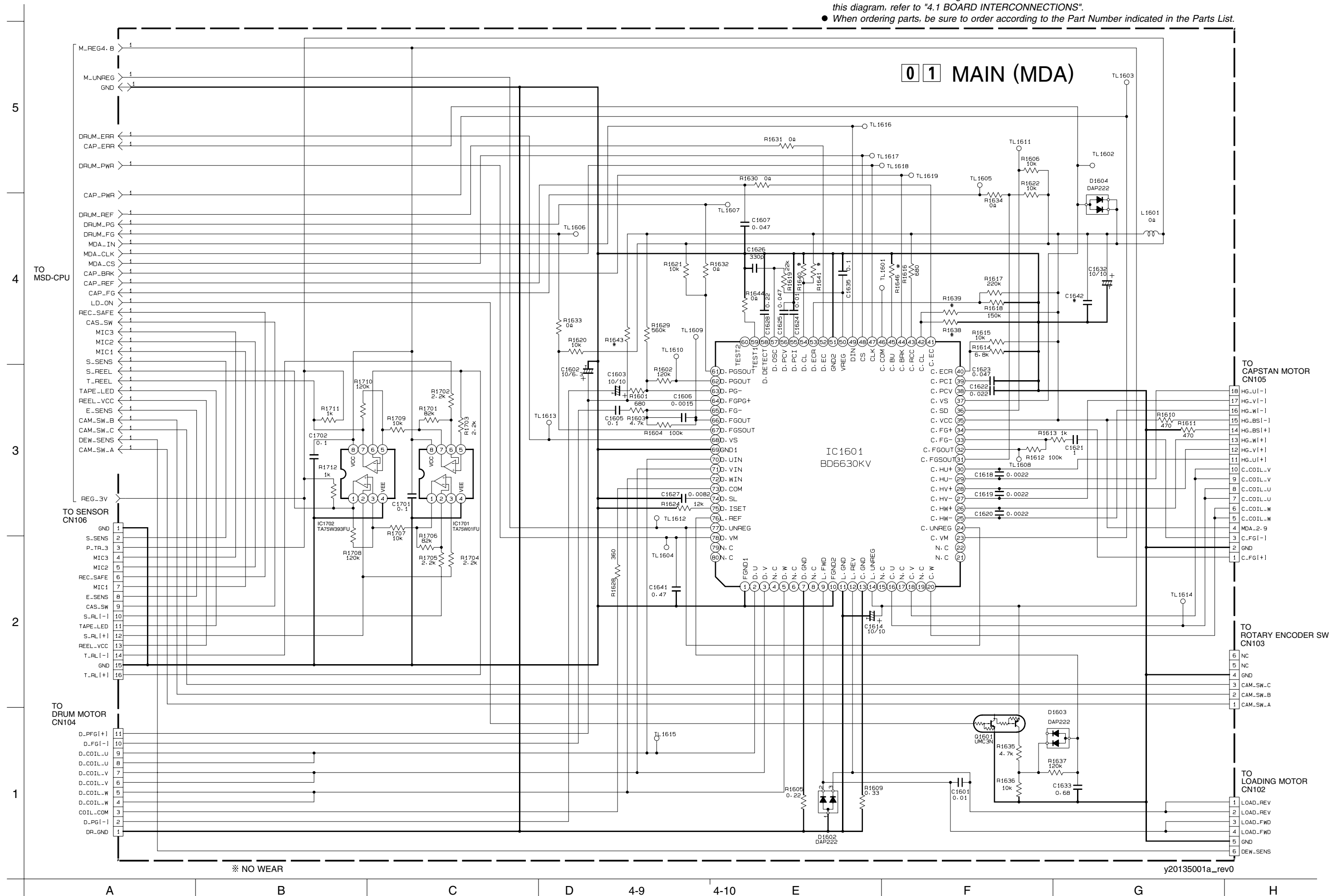




#### 4.4 MDA SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".

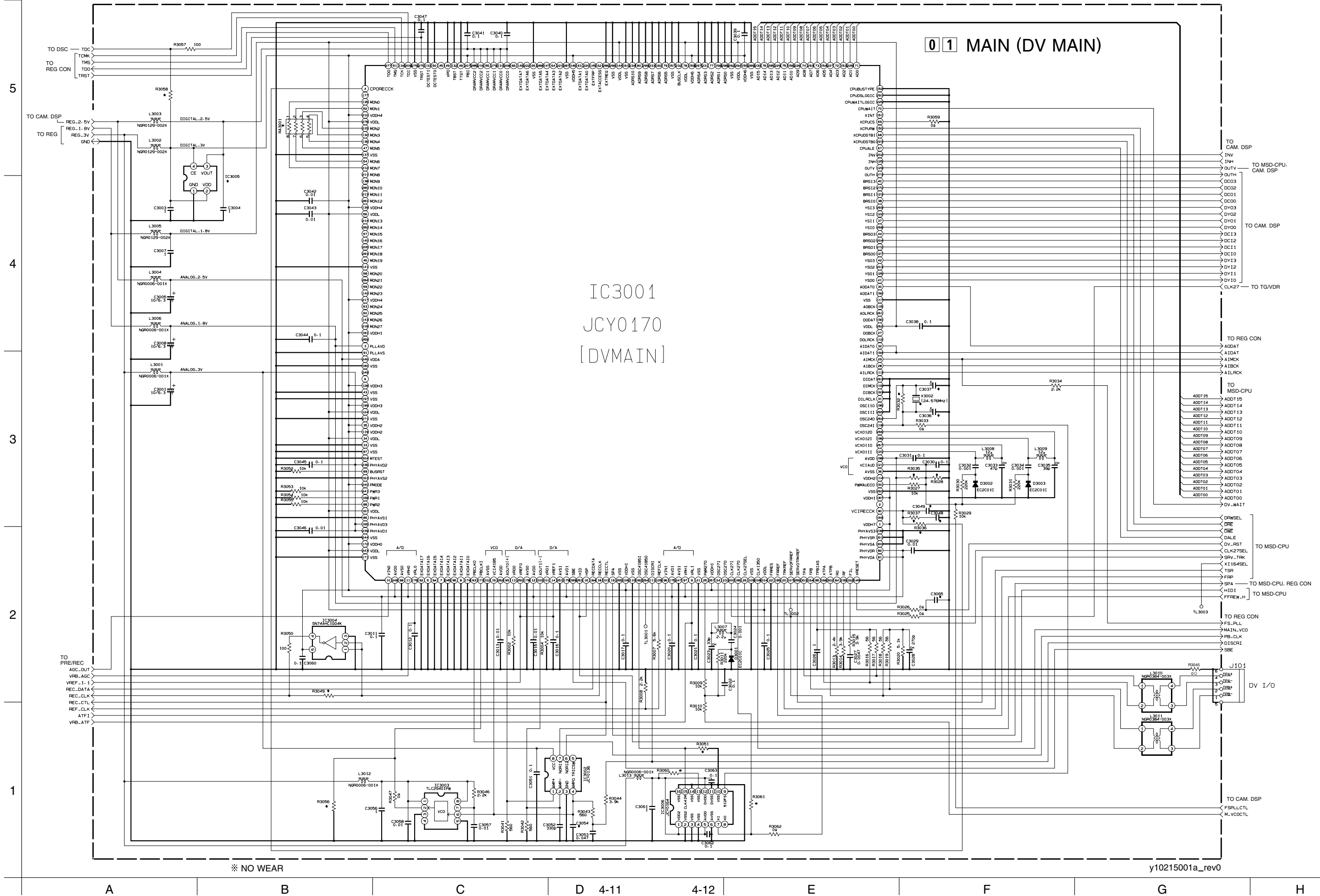
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



#### 4.5 DV MAIN SCHEMATIC DIAGRAM

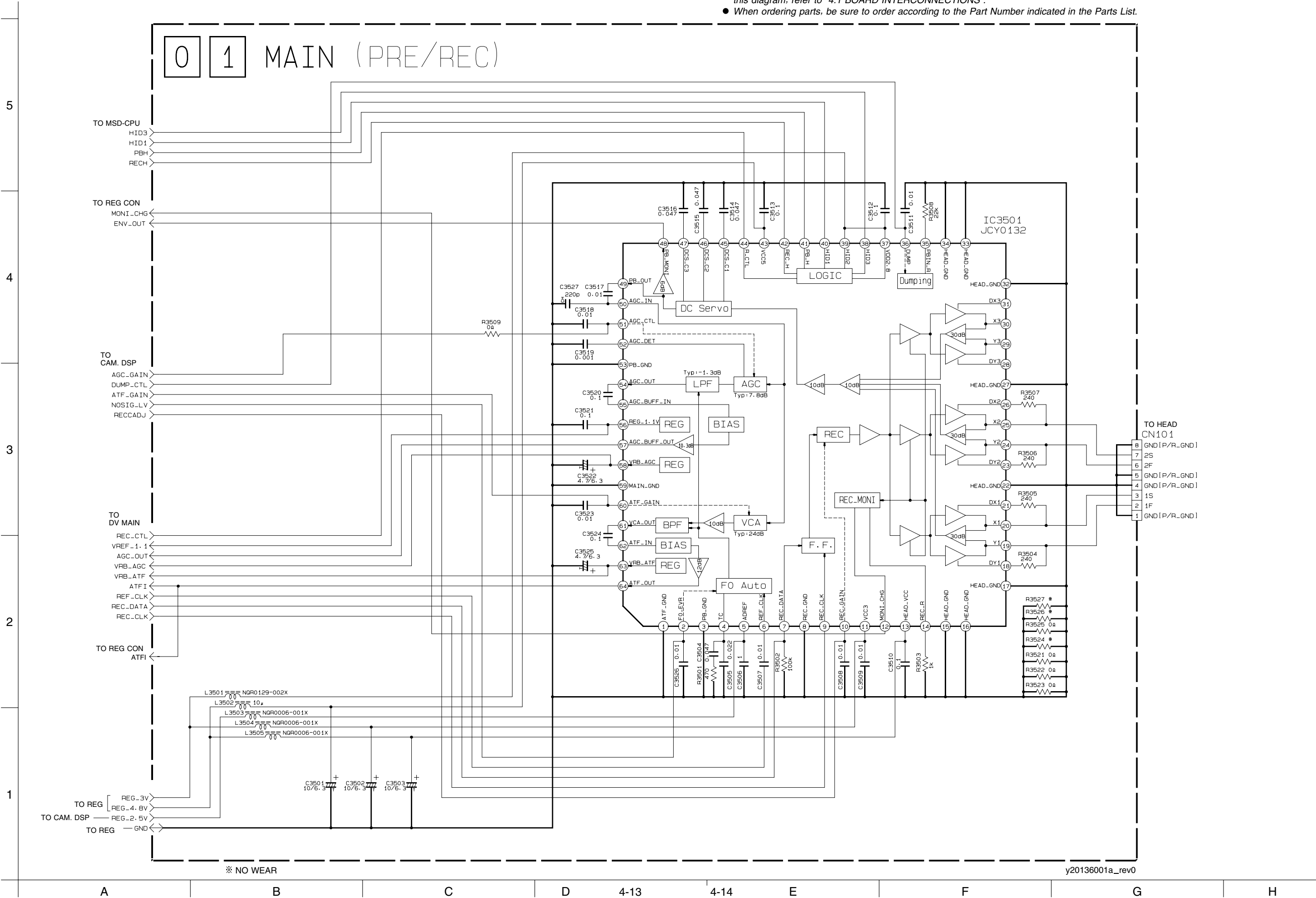
**NOTES :**

- 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.



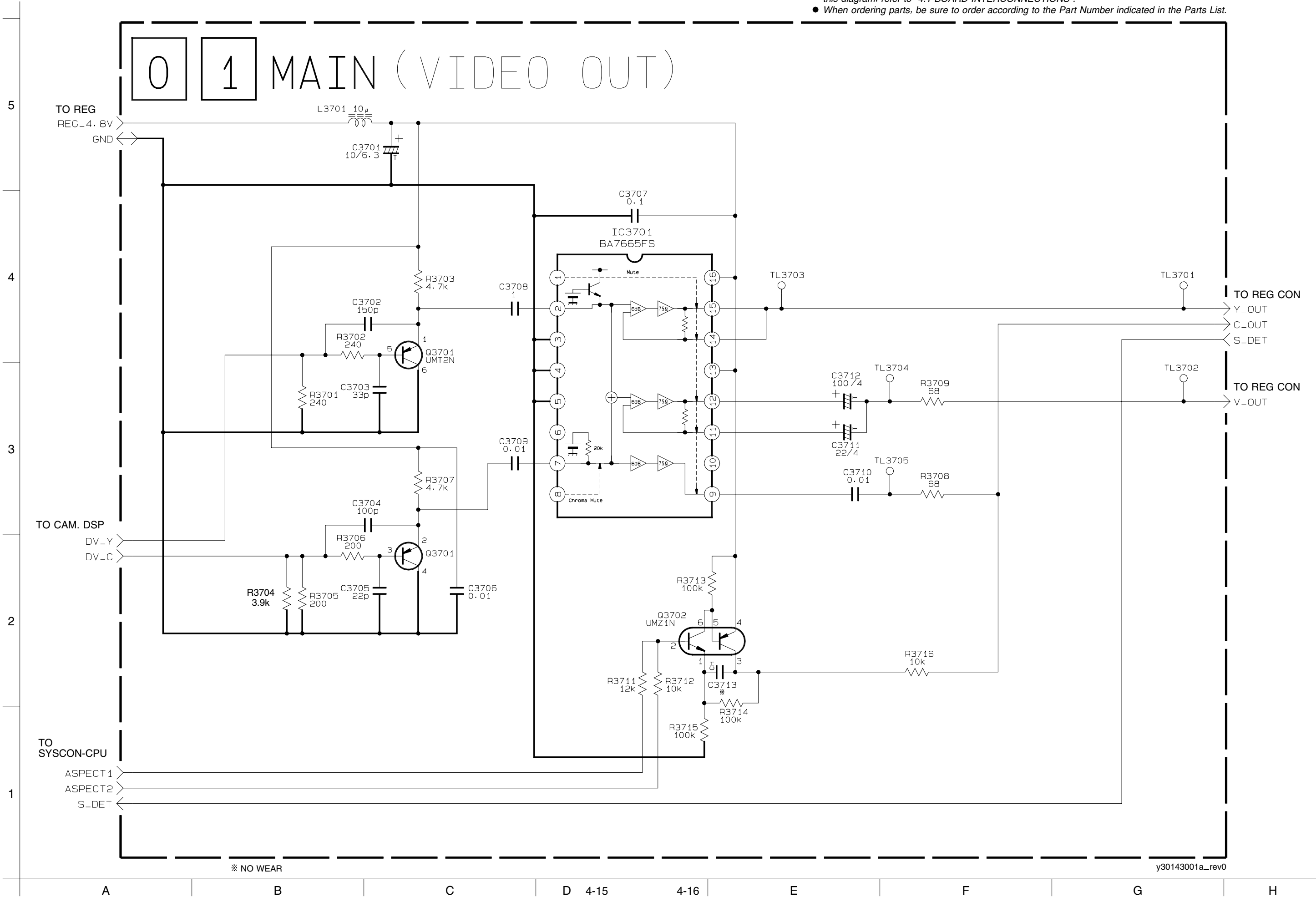
4.6 PRE/REC SCHEMATIC DIAGRAM

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.



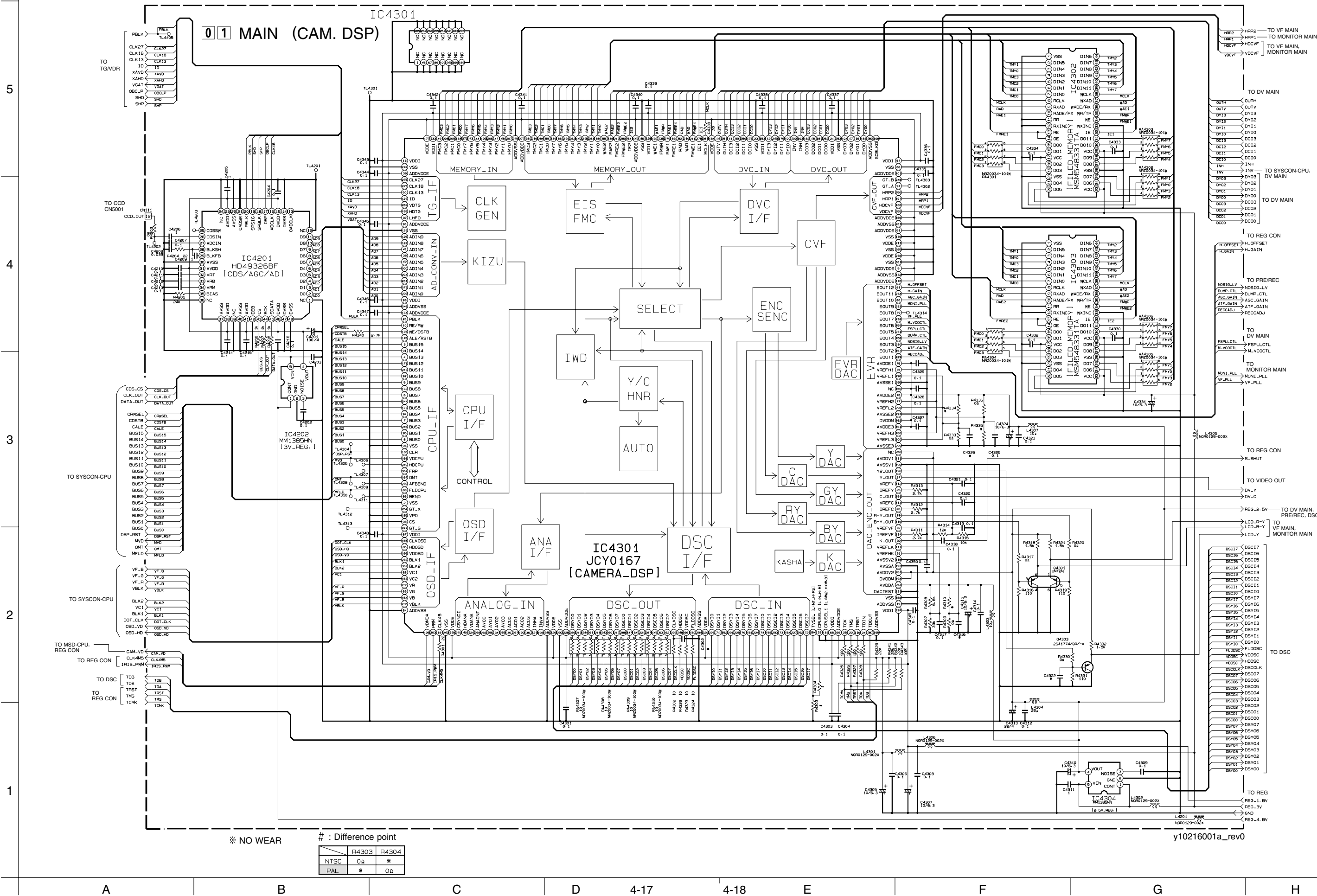
4.7 VIDEO OUT SCHEMATIC DIAGRAM

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.



4.8 CAM. DSP SCHEMATIC DIAGRAM

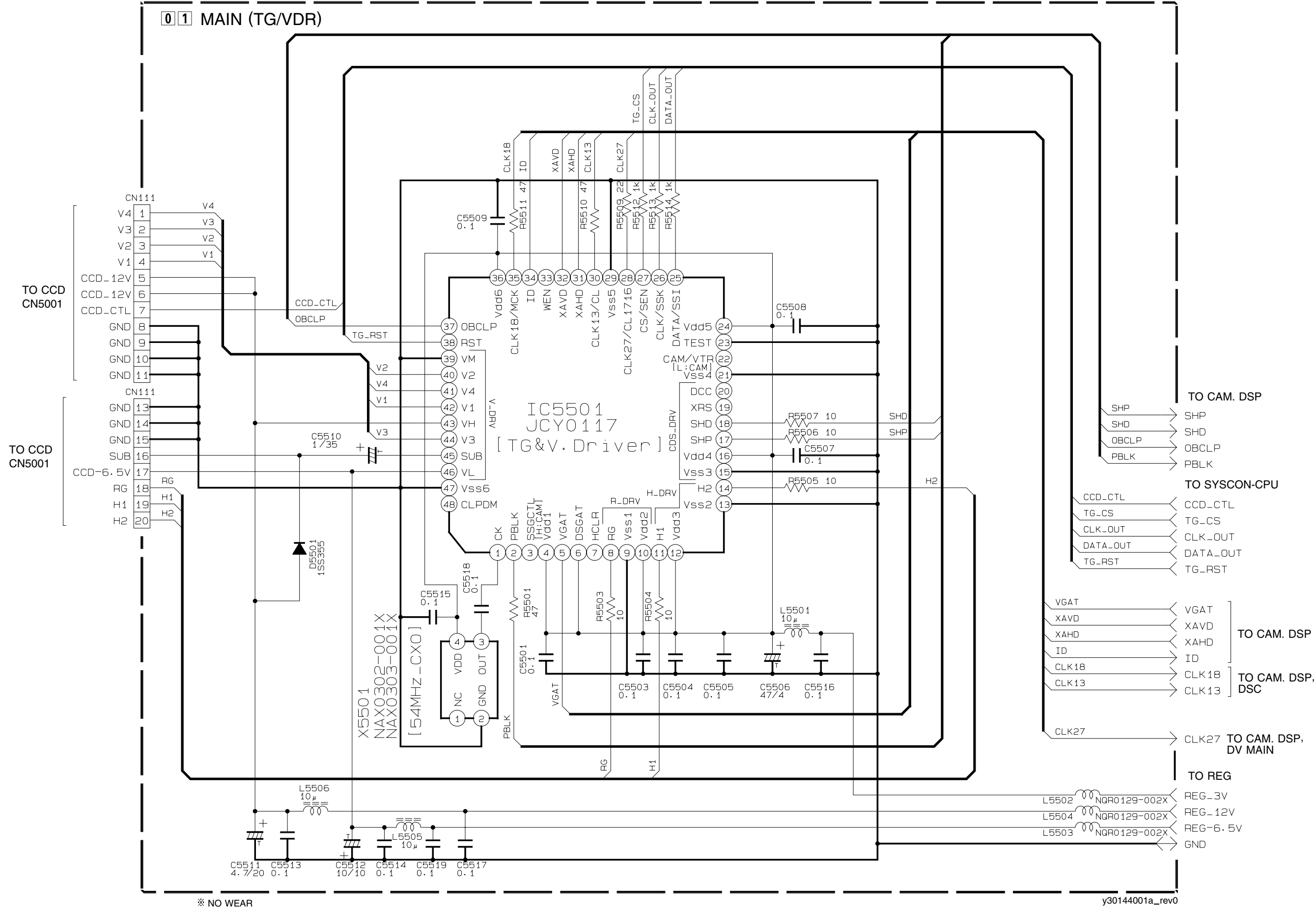
- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



#### 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.

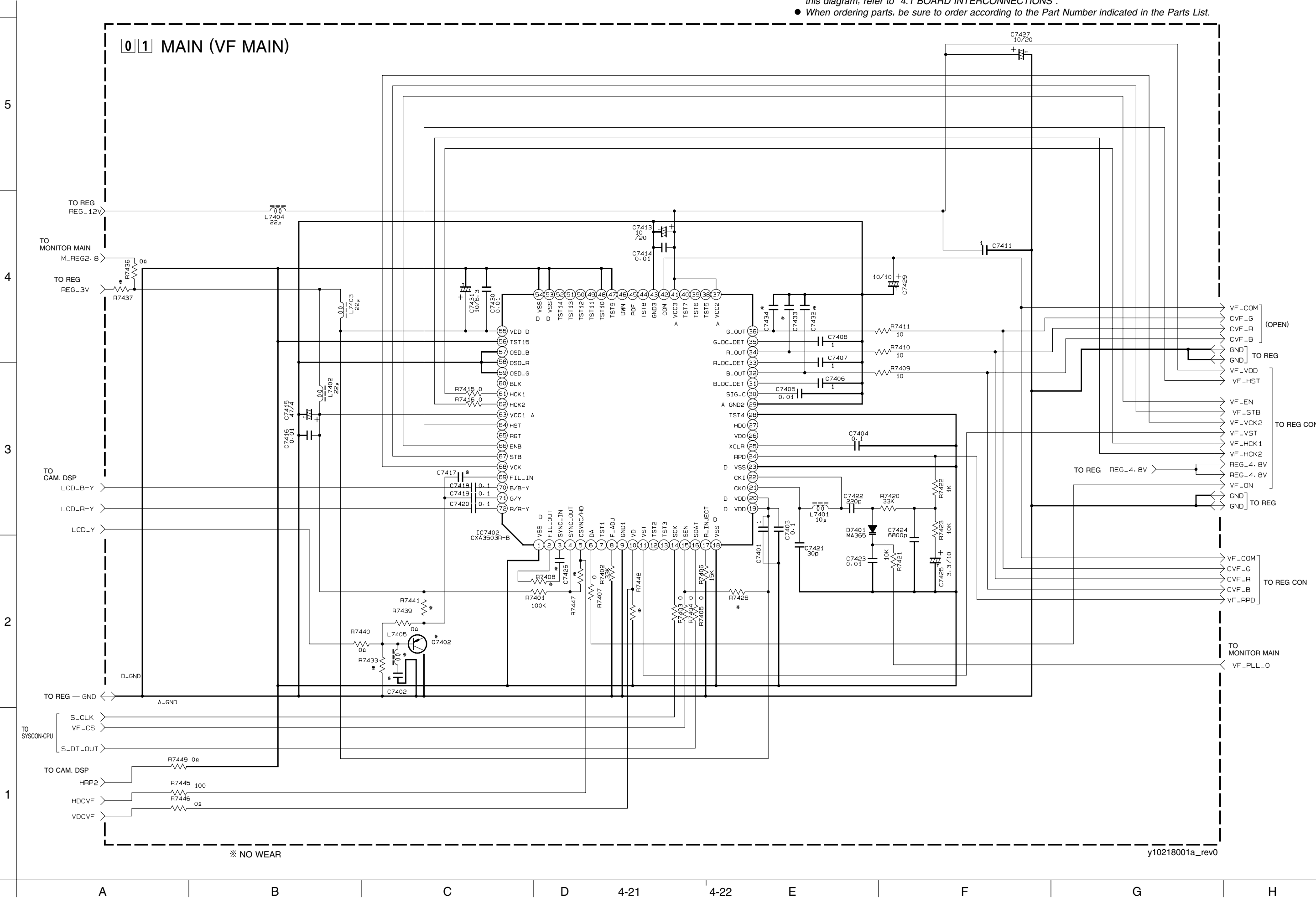


※ NO WEAR

y30144001a\_rev0

4.10 VF MAIN SCHEMATIC DIAGRAM

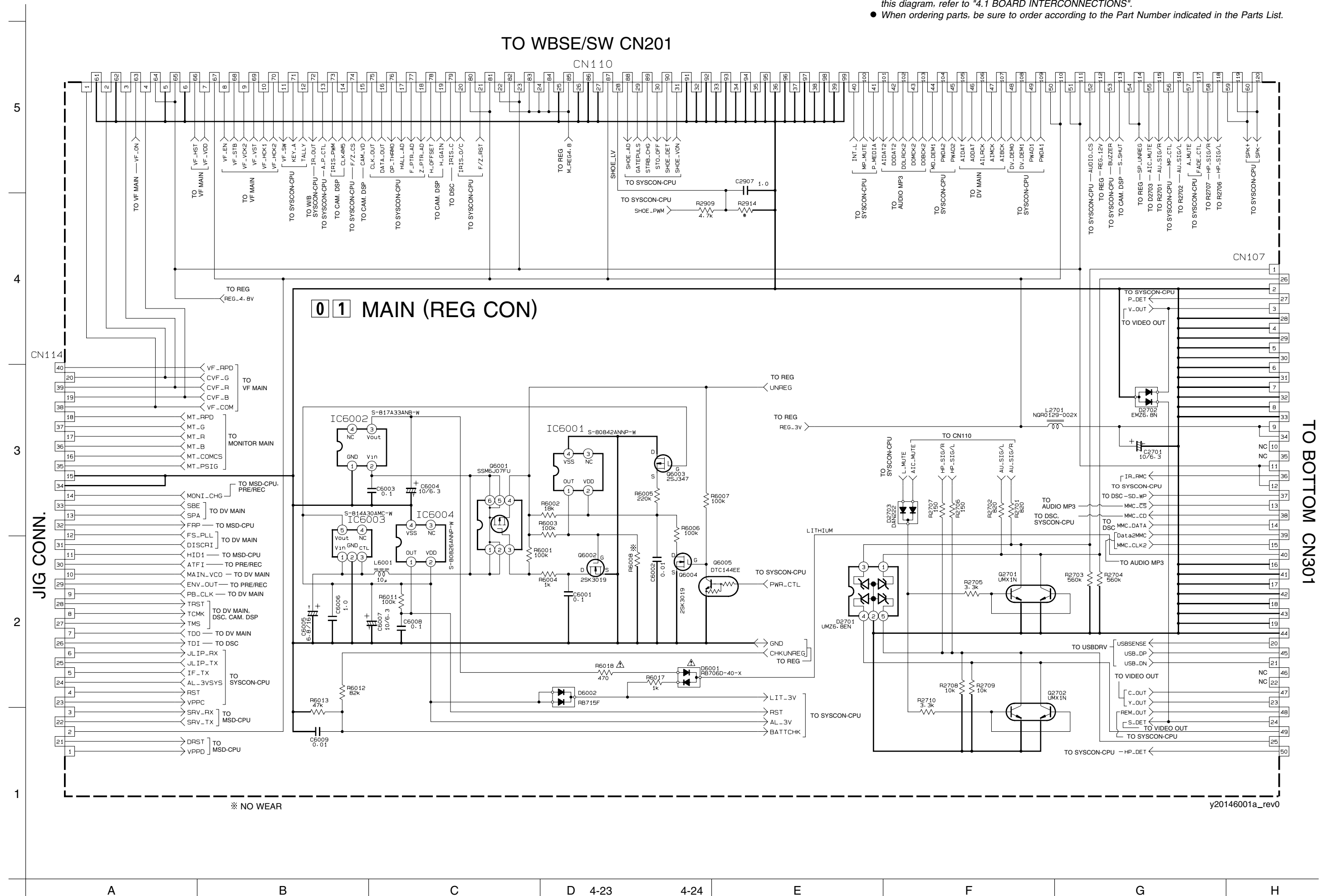
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



#### 4.11 REG CON 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".

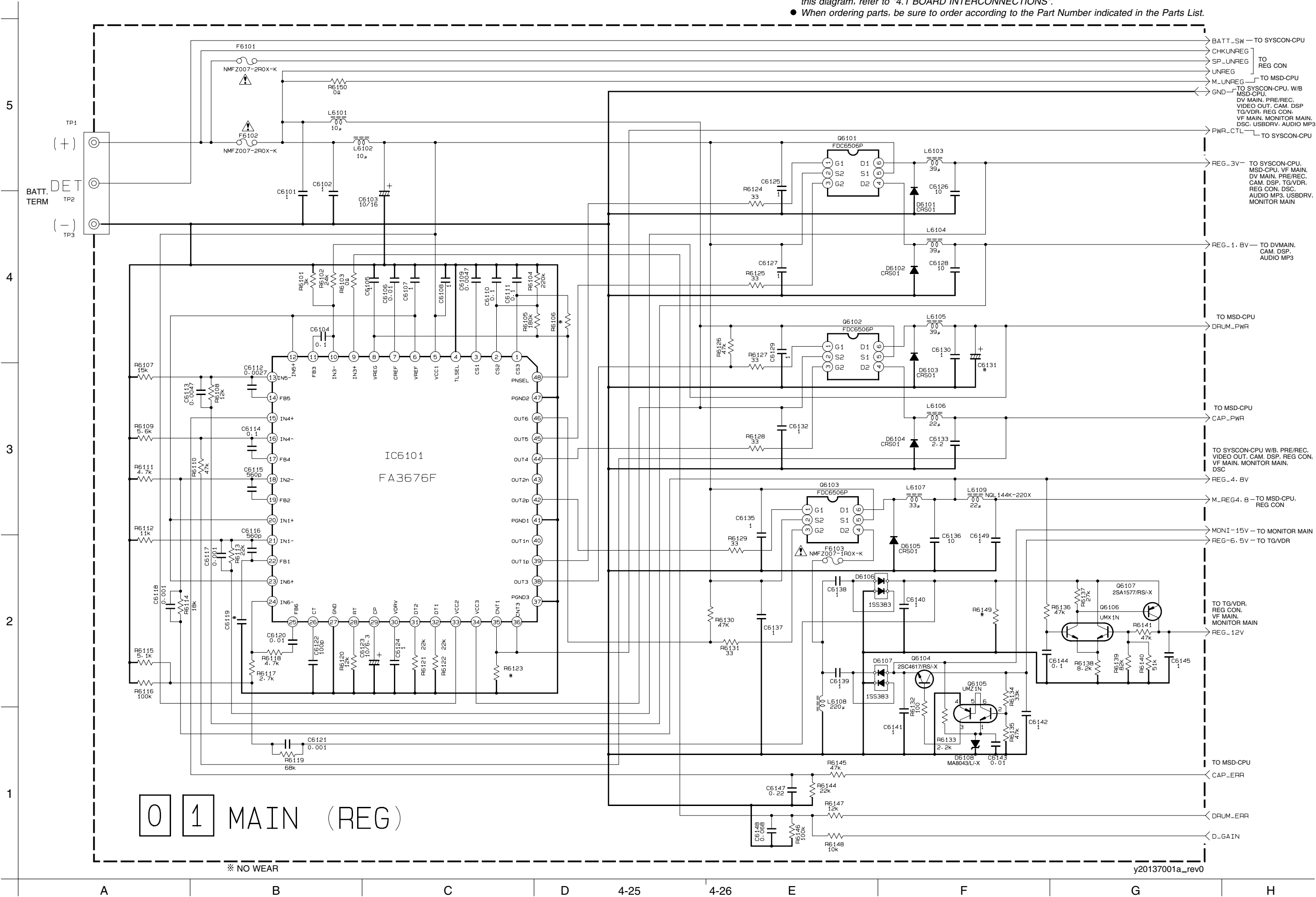
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.





4.12 REG SCHEMATIC DIAGRAM

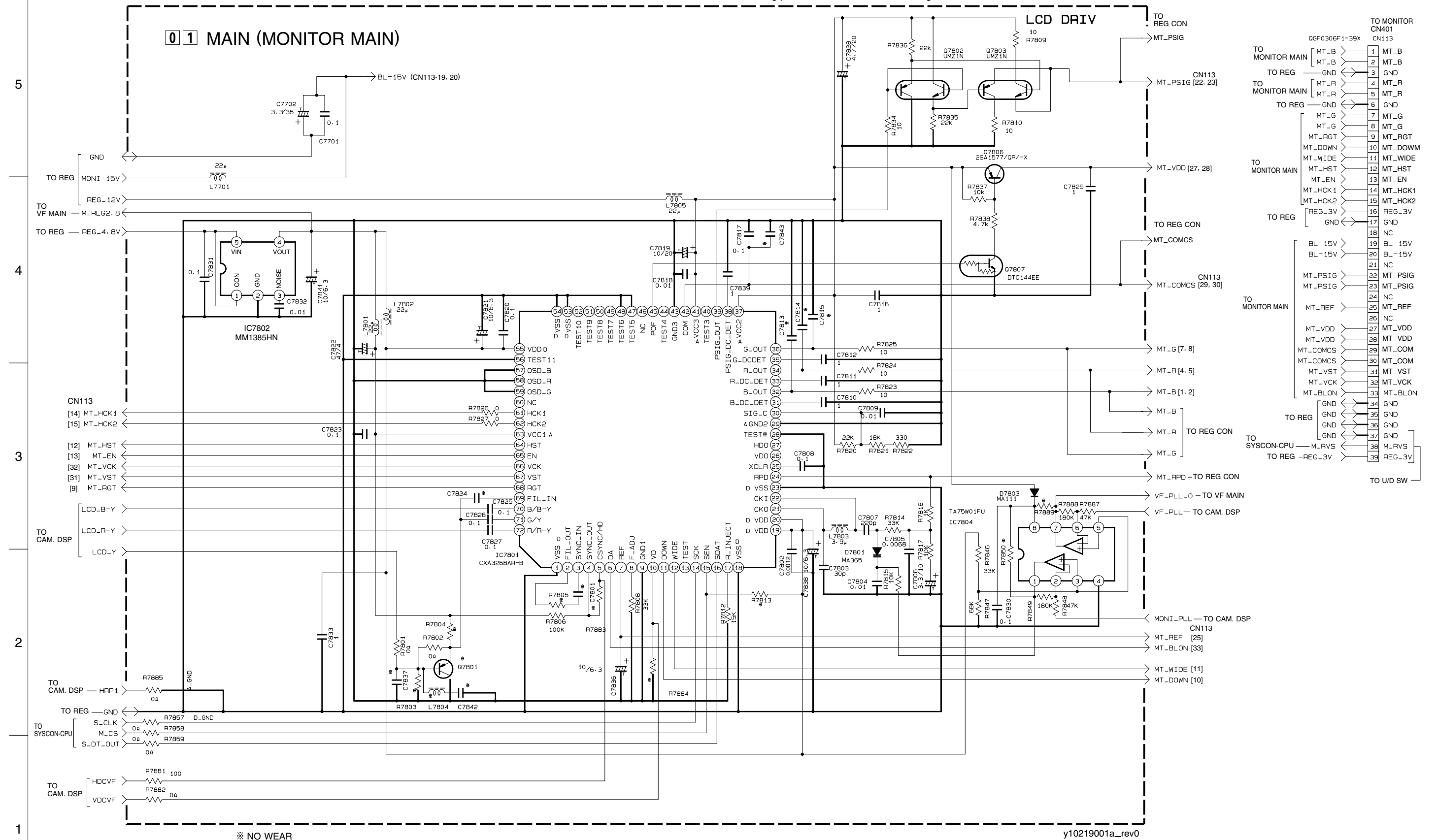
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



#### 4.13 MONITOR 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.



## 5

4

3

2

1

y10217001a\_rev0



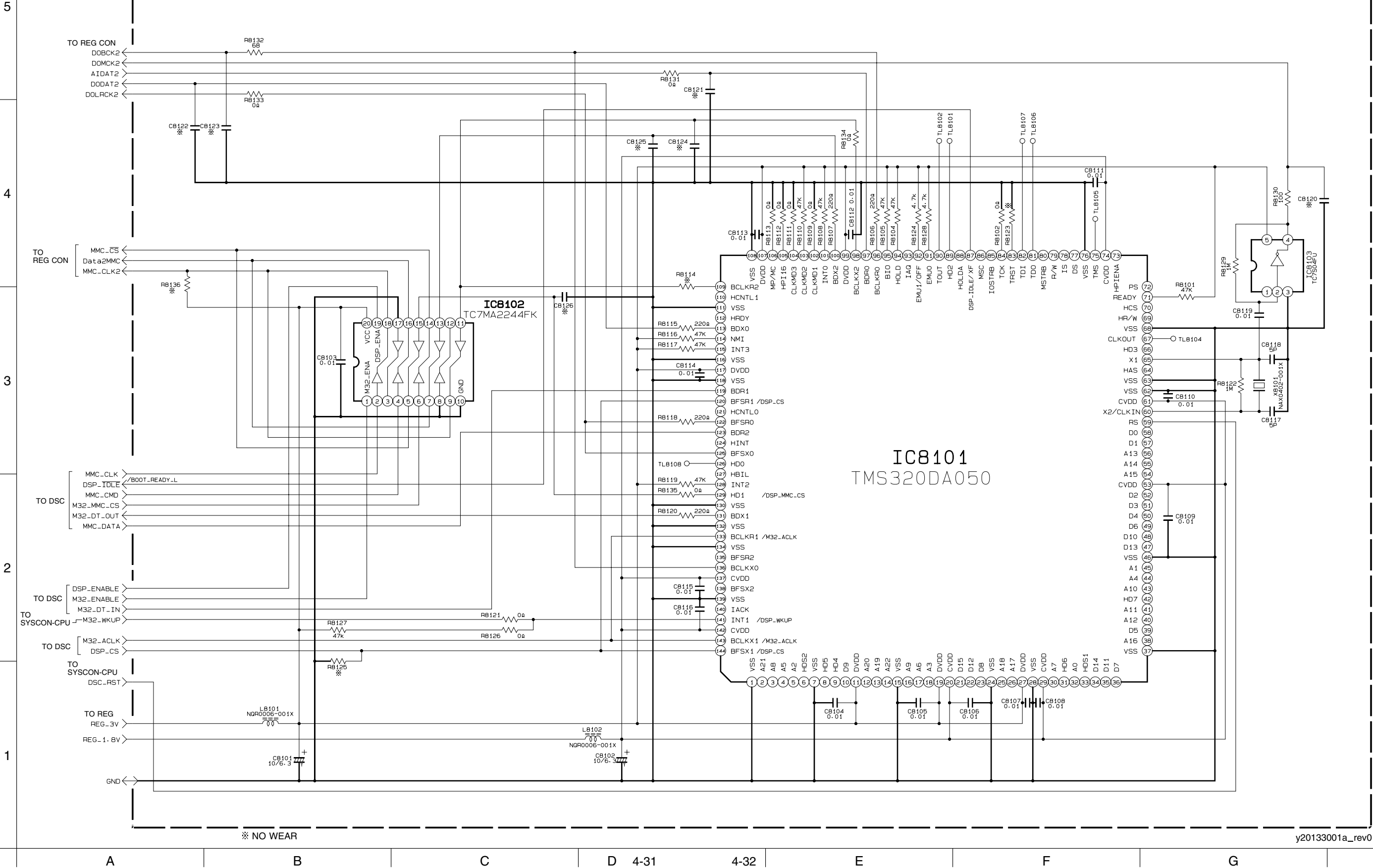
# : Difference point

SYMBOL	IC8004
DOM	MBV800TA90PBA14
US	MBV800TA90PBA12
PAL	MBV800TA90PBA12

4.15 AUDIO MP3 SCHEMATIC DIAGRAM

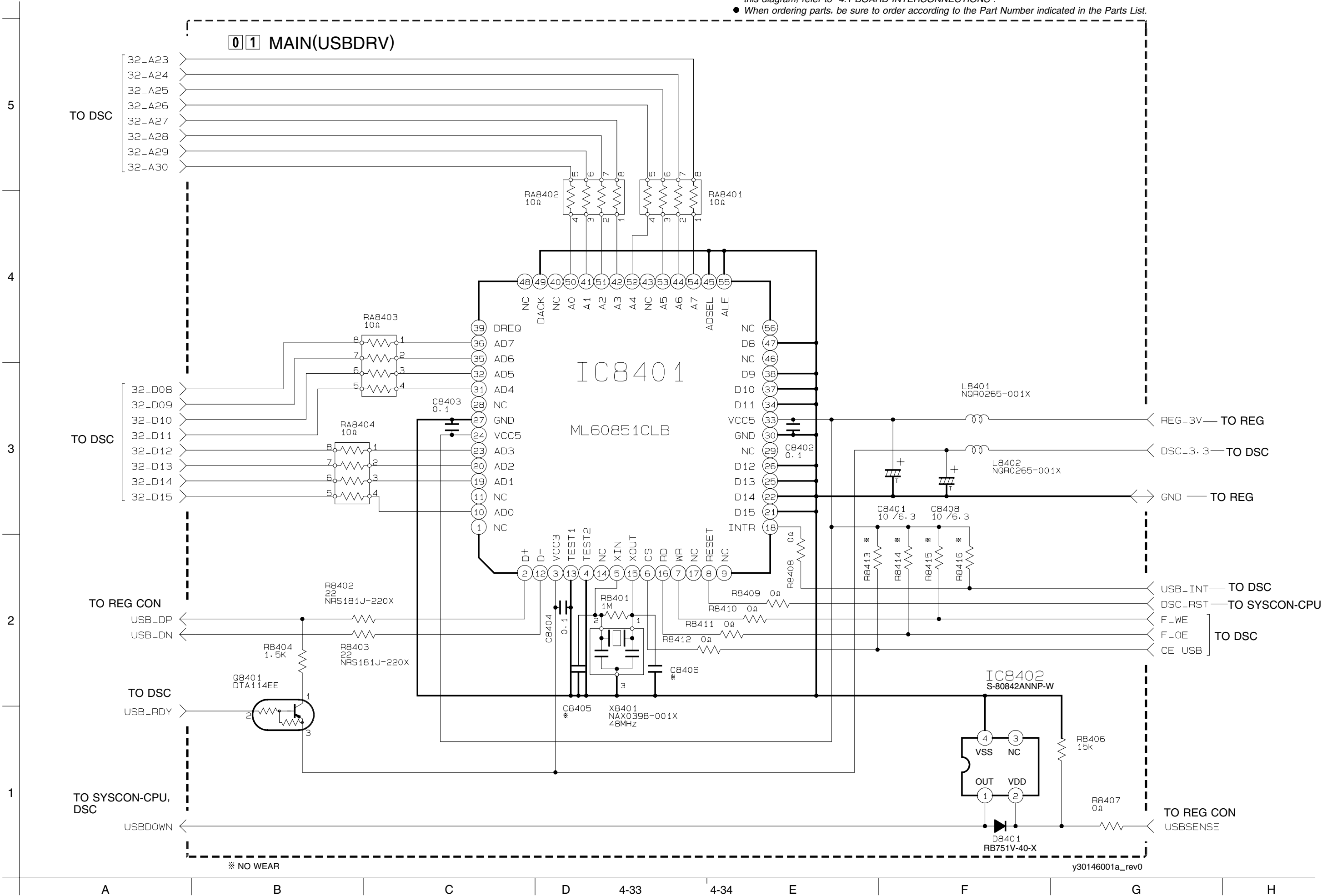
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.

01 MAIN (AUDIO MP3)



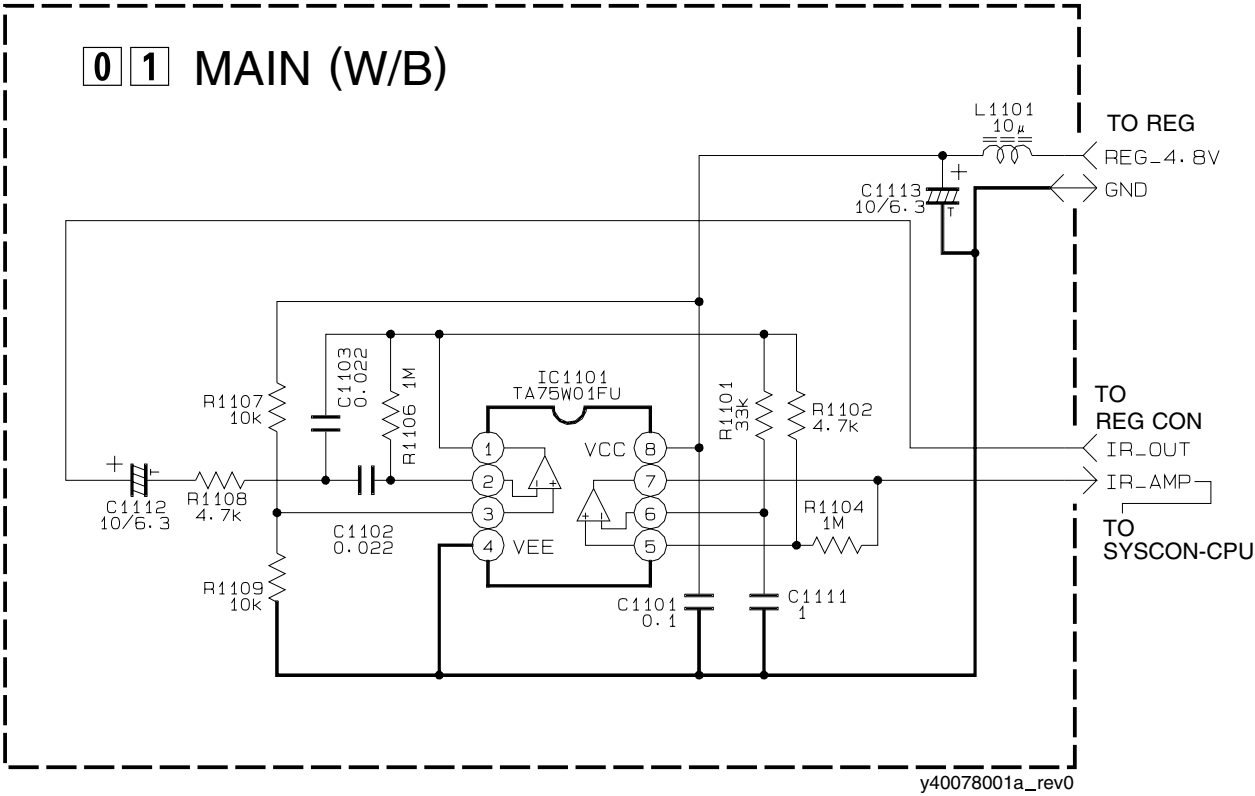
4.16 USBDRV SCHEMATIC DIAGRAM

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.



4.17 W/B SCHEMATIC DIAGRAM

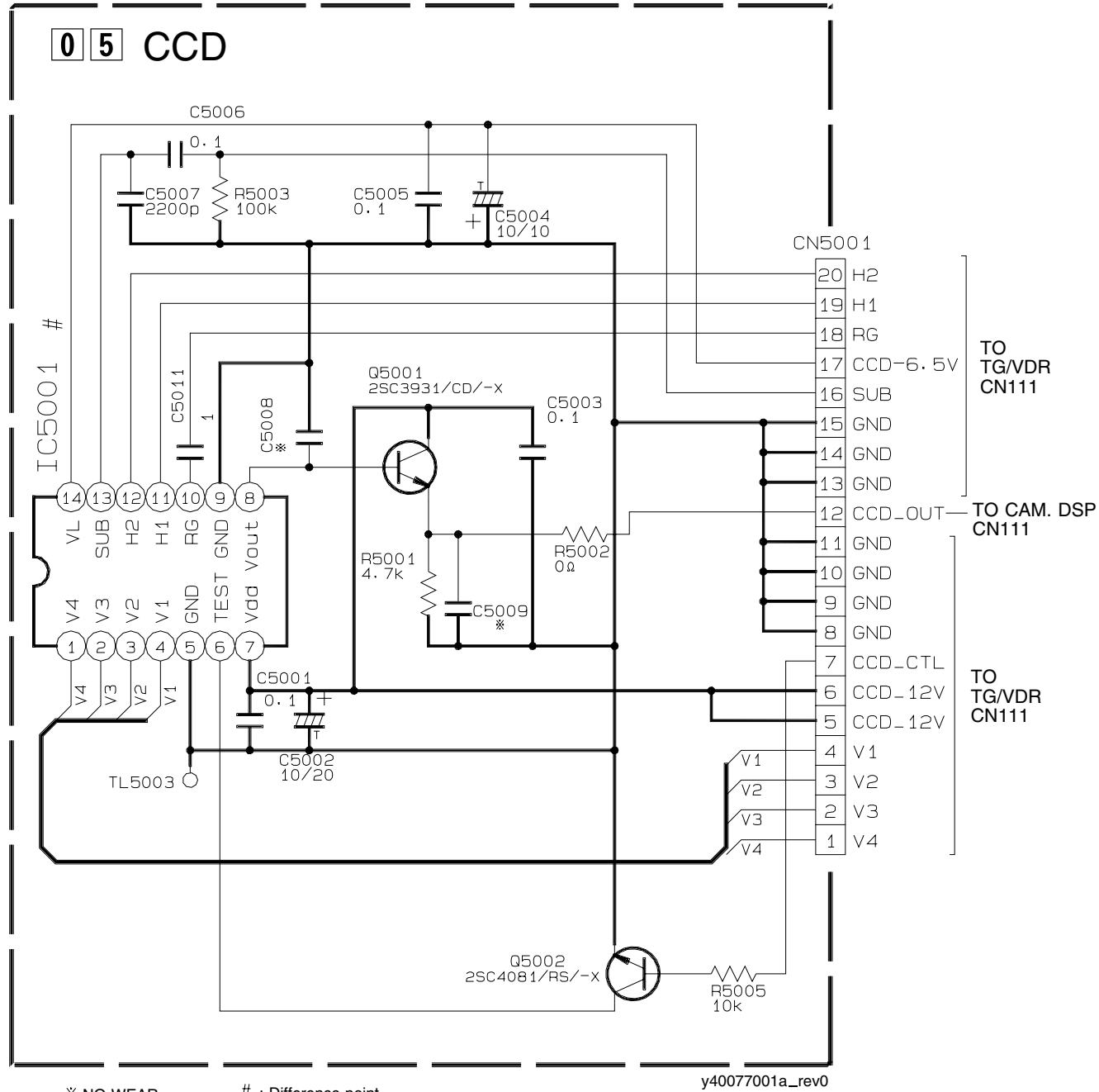
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



4.18 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.

● IC5001 is incorporated in the CCD base assembly.  
When IC5001 needs replacement, replace the CCD base assembly in whole because it cannot be re-placed alone.

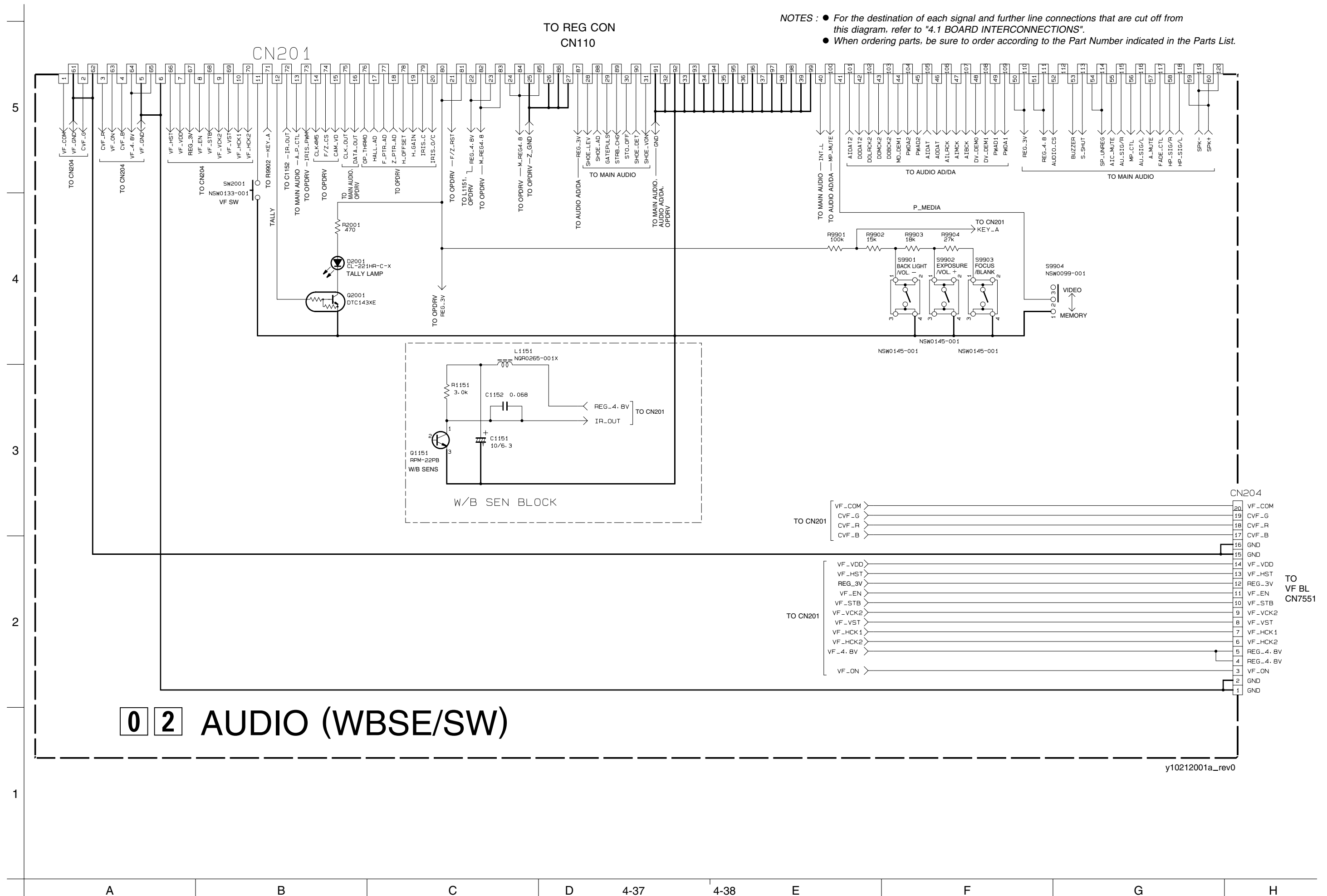


※ NO WEAR

# : Difference point

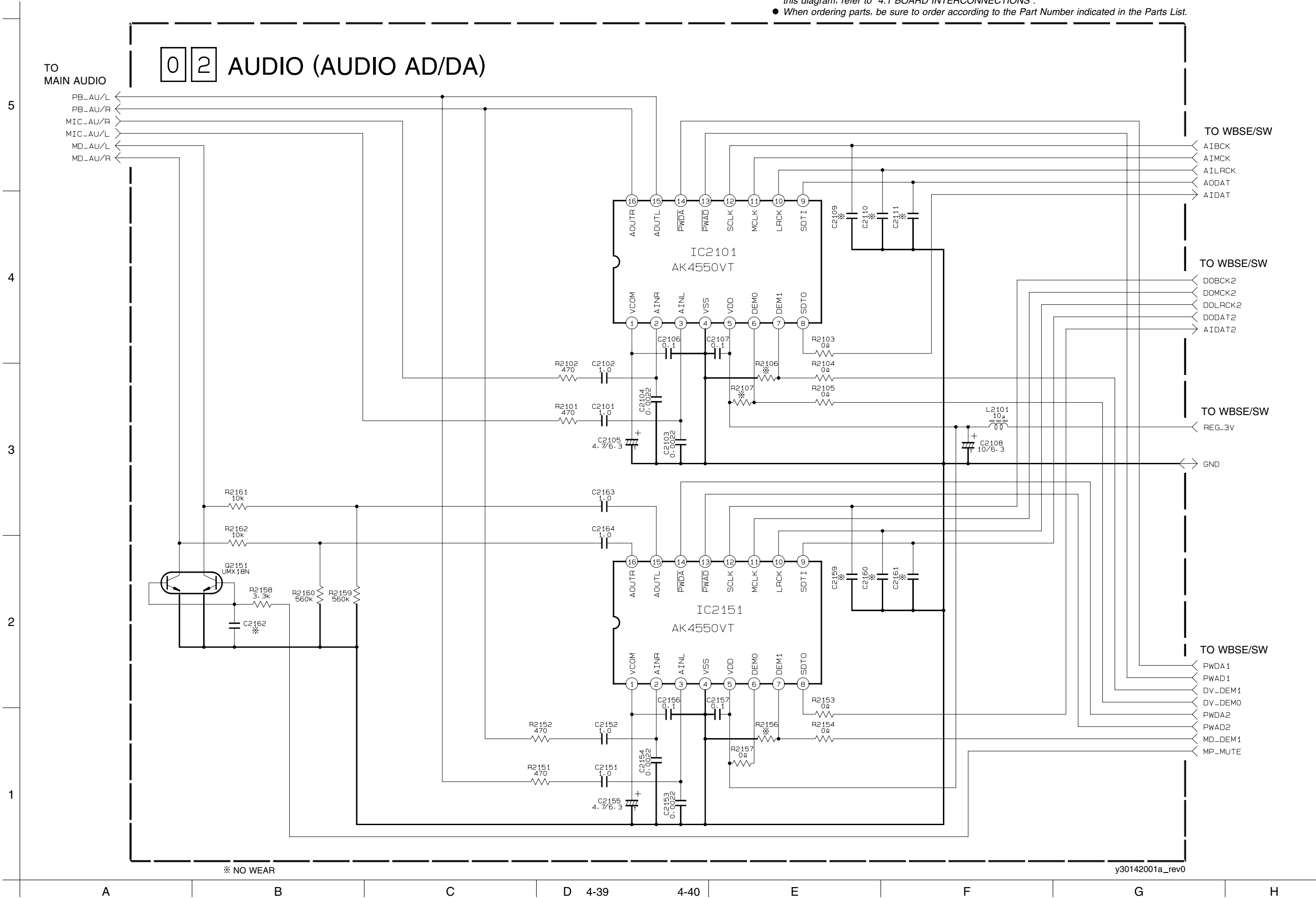
	IC5001
NTSC	ICX220AK-K
PAL	ICX221BK-K

#### 4.19 WBSE/SW SCHEMATIC DIAGRAM



4.20 AUDIO AD/DA 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.

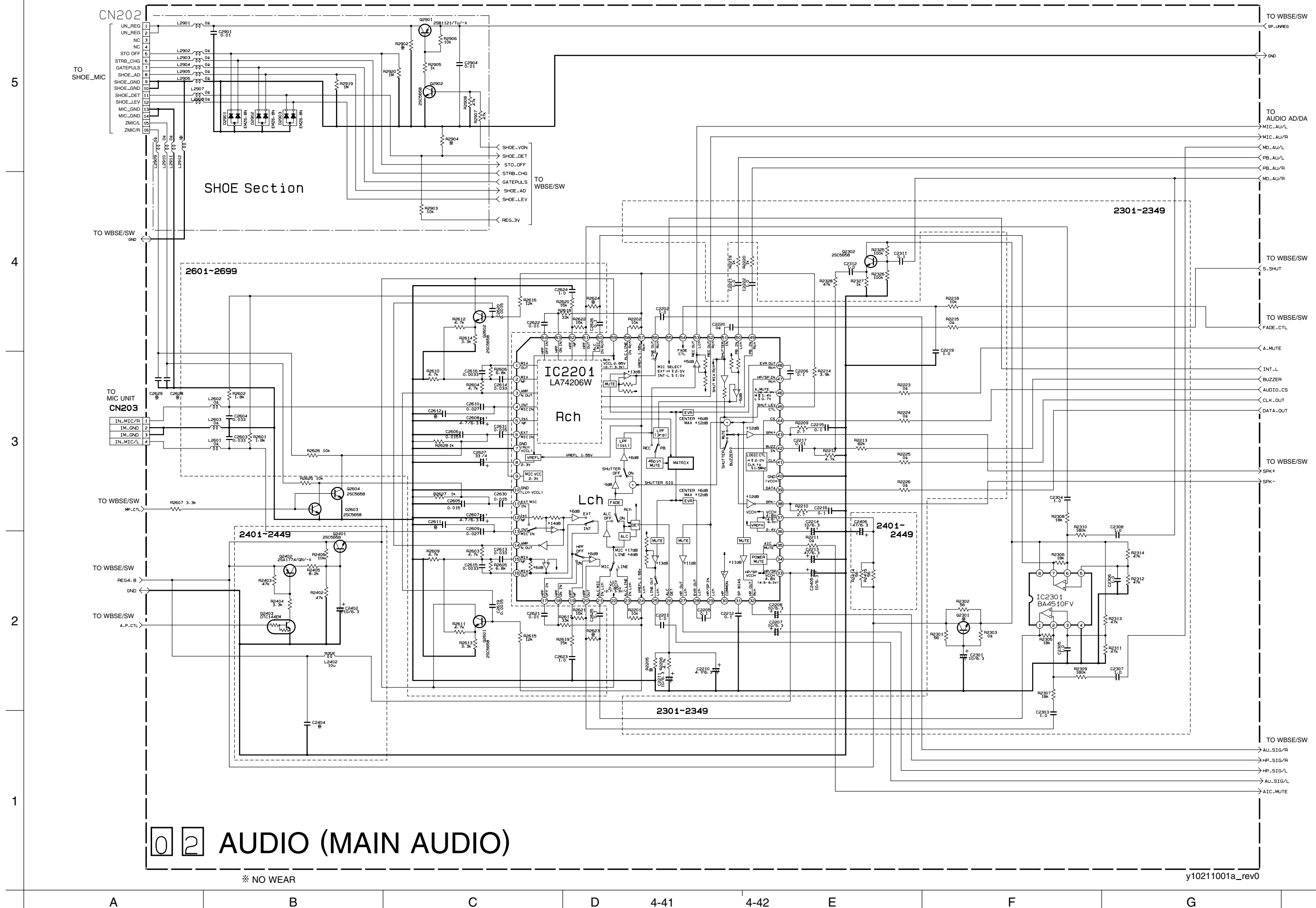




#### 4.21 MAIN AUDIO SCHEMATIC DIAGRAM

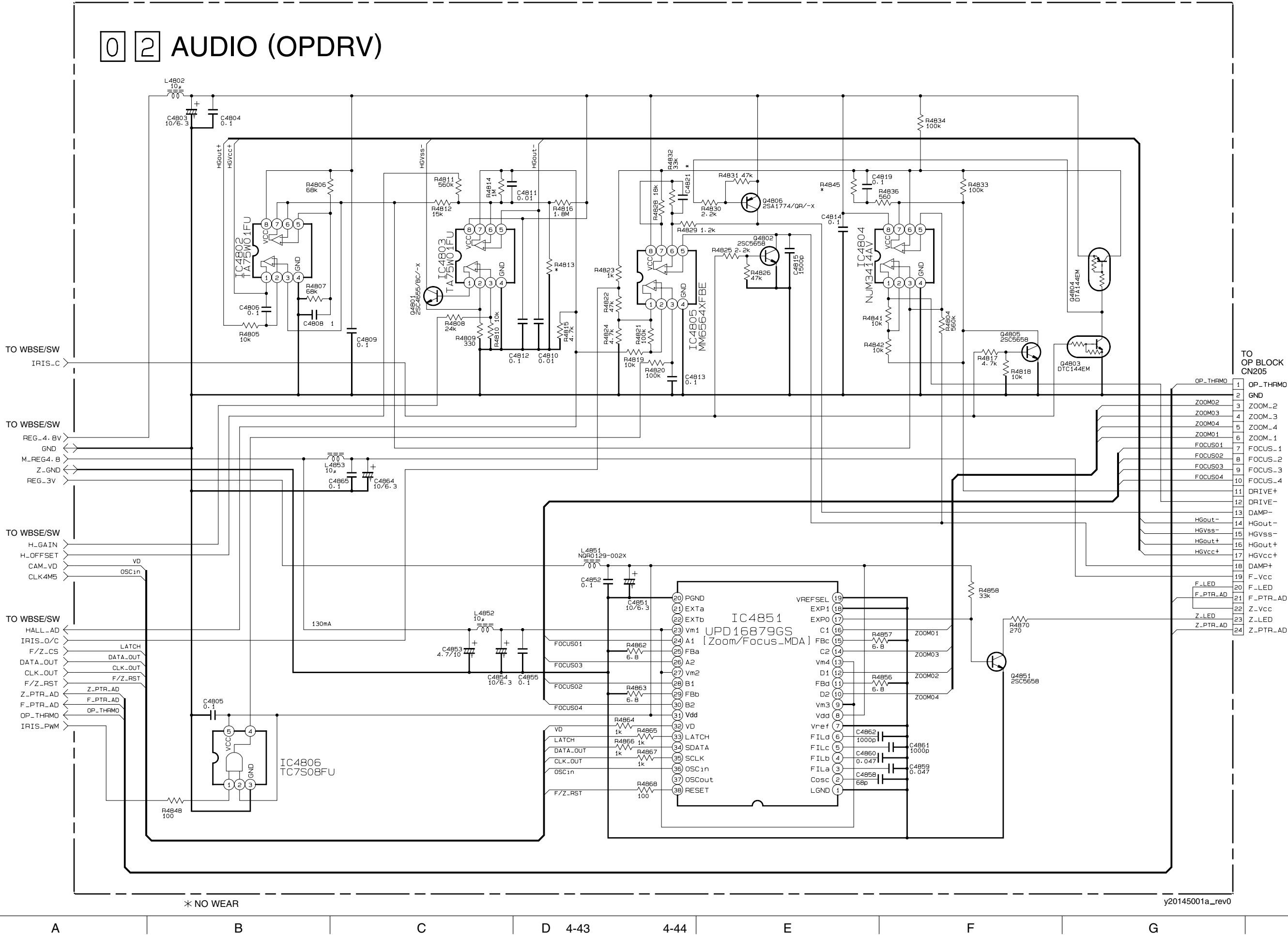
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".

● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



4.22 OPDRV SCHEMAITC DIAGRAM

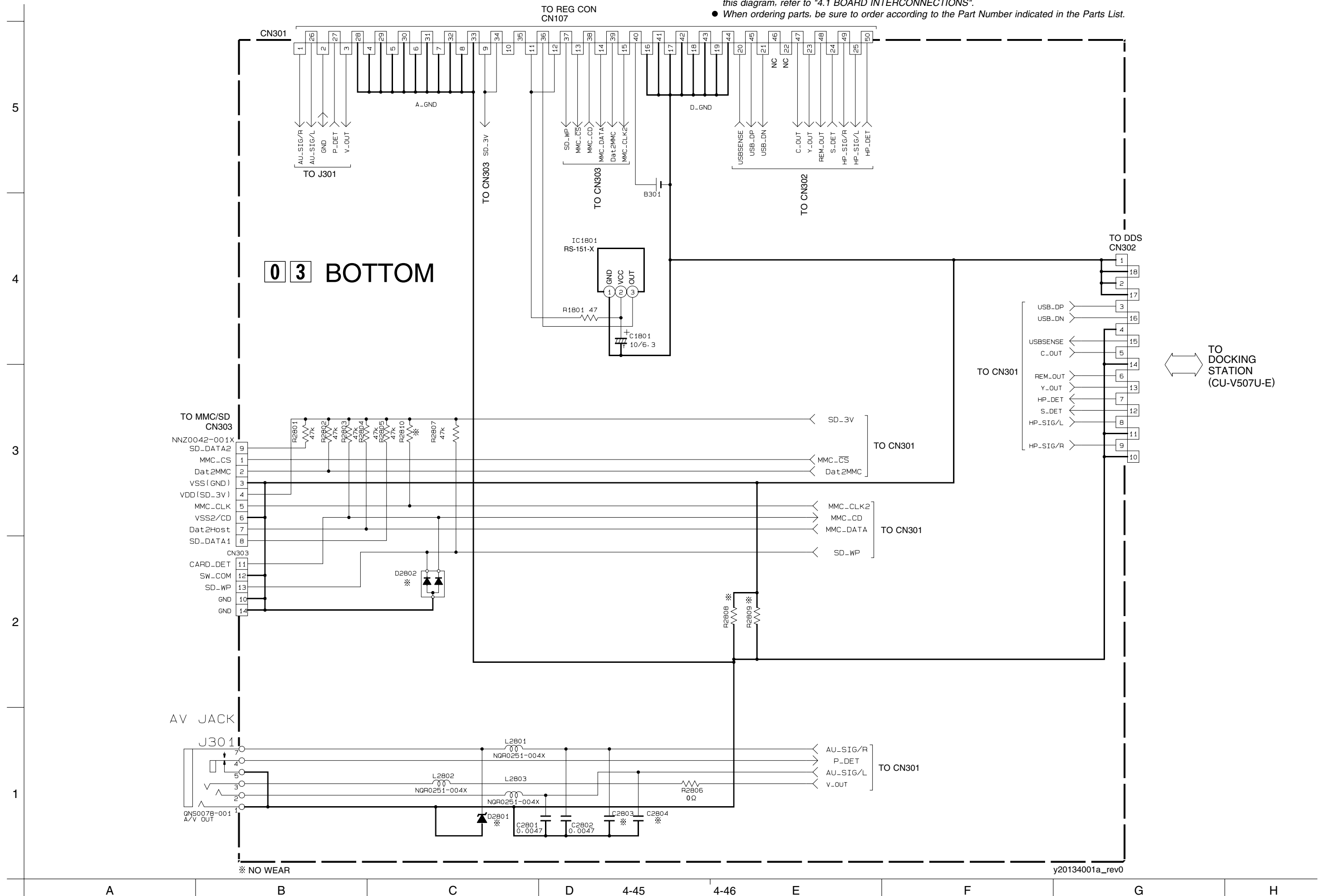
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



#### 4.23 BOTTOM SCHEMATIC DIAGRAM

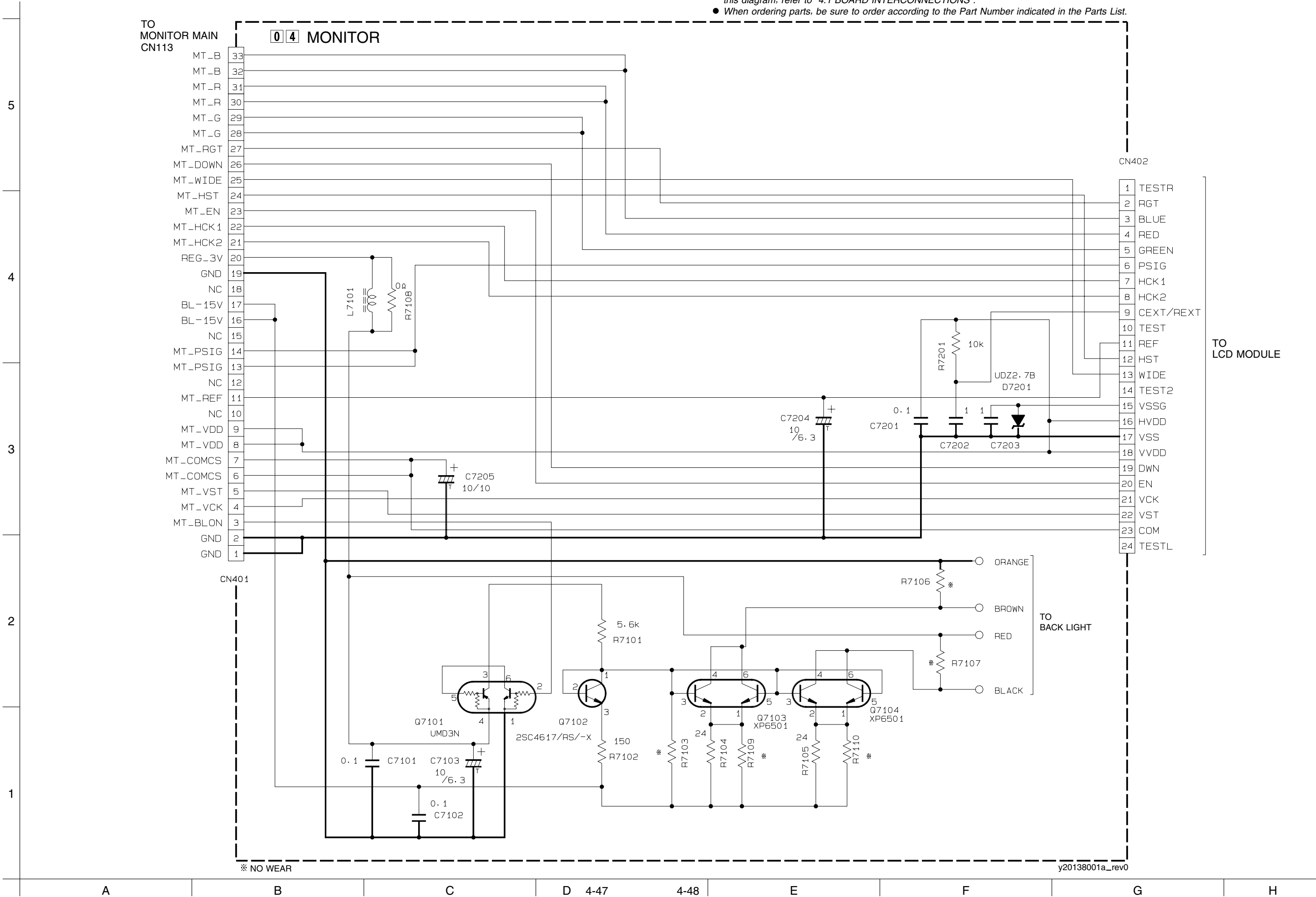
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".

● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



4.24 MONITOR SCHEMATIC DIAGRAM

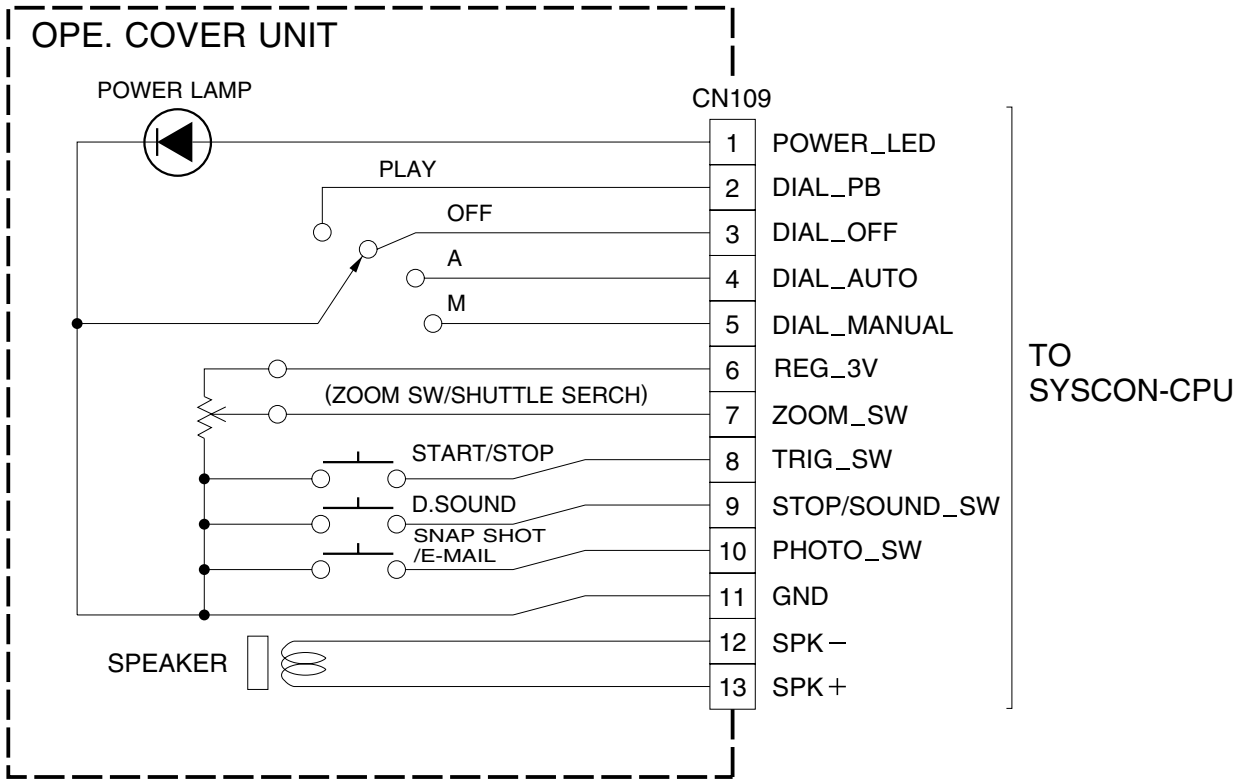
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



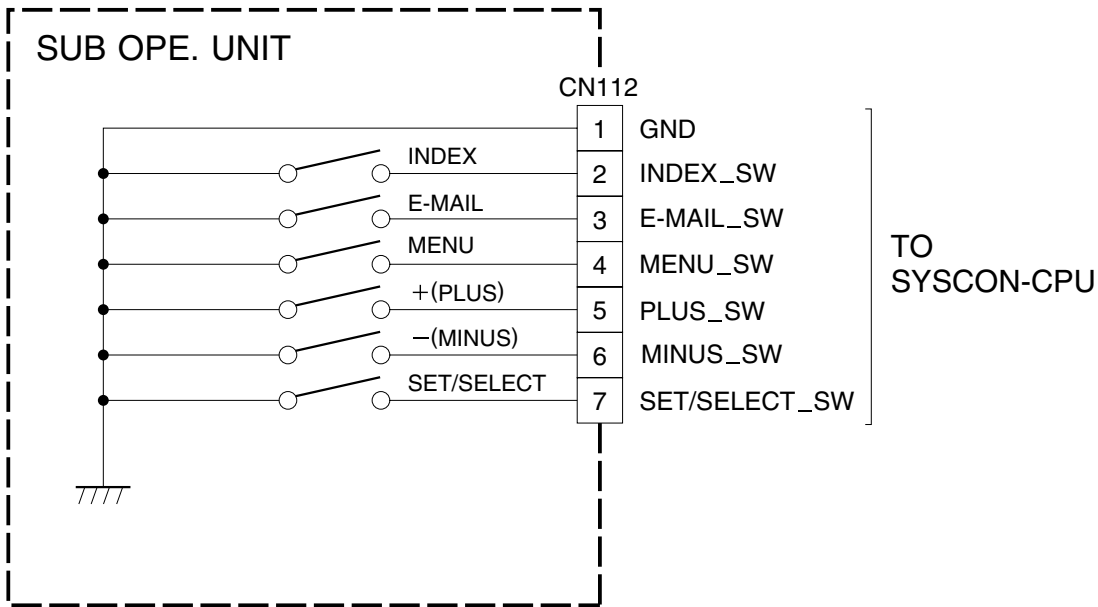
4.25 OPE. COVER UNIT AND SUB OPE. UNIT SCHEMATIC DIAGRAMS

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.

—OPE. COVER UNIT —



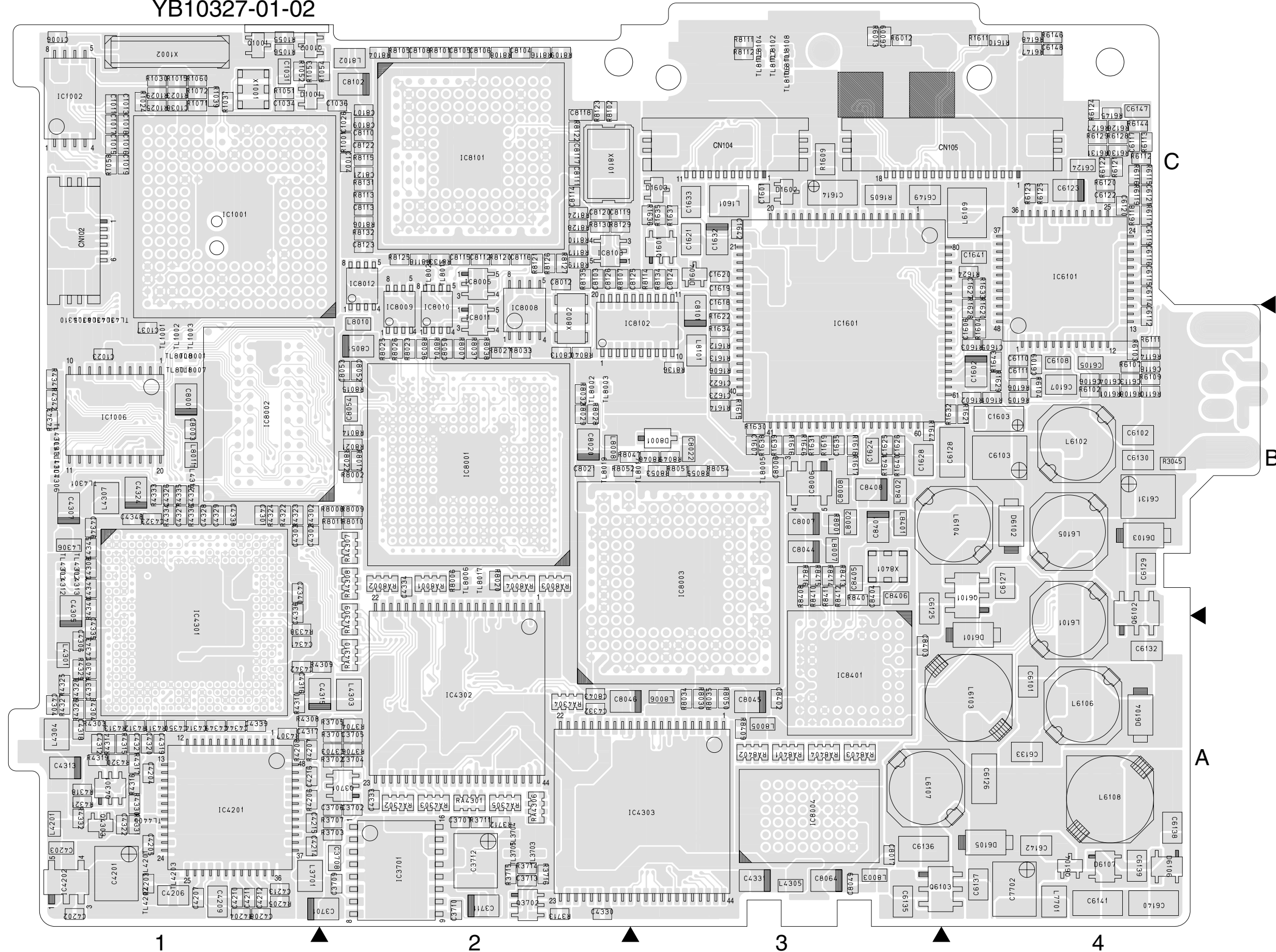
—SUB OPE. UNIT —



## 4.26 MAIN CIRCUIT BOARD

01 MAIN PWB  
YB10327-01-02

FOIL SIDE(B)



# COMPONENT PARTS LOCATION GUIDE

< MAIN/ YB10327-01-02 >

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>		C3020	A C 3B	C4202	B C 1A	C6001	A C 4B	C7432	A C 1B	C8114	B C 2C	IC3004	A C 2B	L6106	B C 4A
C1004	B C 2C	C3021	A C 3B	C4203	B C 1A	C6002	A C 4A	C7433	A C 1B	C8115	B C 2C	IC3005	A C 4C	L6107	B C 3A
C1006	B C 1C	C3022	A C 3C	C4204	B C 1A	C6003	A C 4A	C7434	A C 1B	C8116	B C 2C	IC3006	A C 2B	L6108	B C 4A
C1007	A C 1C	C3023	A C 3B	C4205	B C 1A	C6004	A C 4A	C7701	A C 2A	C8117	B C 2C	IC3501	A C 2C	L6109	B C 4C
C1011	B C 1C	C3024	A C 3B	C4206	B C 1A	C6005	A C 4A	C7702	B C 4A	C8118	B C 2C	IC3701	B C 2A	L7401	A C 1B
C1013	B C 1C	C3025	A C 3B	C4207	B C 1A	C6006	A C 4A	C7801	A C 2B	C8119	B C 2C	IC4201	B C 1A	L7402	A C 2B
C1015	B C 1C	C3026	A C 4B	C4208	B C 1A	C6007	A C 4A	C7802	A C 3A	C8120	B C 2C	IC4202	B C 1A	L7403	A C 2B
C1016	B C 1C	C3027	A C 4C	C4209	B C 1A	C6008	A C 4A	C7803	A C 3A	C8121	B C 2C	IC4301	B C 1A	L7404	A C 1B
C1017	B C 1C	C3028	A C 4B	C4210	B C 1A	C6009	B C 3C	C7804	A C 3A	C8122	B C 2C	IC4302	B C 2A	L7405	A C 2B
C1018	B C 1C	C3029	A C 4C	C4211	B C 1A	C6101	B C 4A	C7805	A C 3A	C8123	B C 2C	IC4303	B C 3A	L7701	B C 4A
C1019	B C 1C	C3030	A C 3C	C4212	B C 1A	C6102	B C 4B	C7806	A C 3A	C8124	B C 3C	IC4304	A C 4A	L7801	A C 2A
C1023	B C 1C	C3031	A C 3C	C4213	B C 1A	C6103	B C 4B	C7807	A C 3A	C8125	B C 3C	IC5501	A C 1A	L7802	A C 2A
C1026	B C 2C	C3032	A C 3C	C4214	B C 1A	C6104	B C 4B	C7808	A C 3A	C8126	B C 2C	IC6001	A C 4A	L7803	A C 3A
C1027	A C 1C	C3033	A C 3C	C4215	B C 1A	C6105	B C 4B	C7809	A C 3A	C8401	B C 3B	IC6002	A C 4A	L7804	A C 2A
C1028	A C 1C	C3034	A C 3C	C4216	B C 1A	C6106	B C 4B	C7810	A C 3A	C8402	B C 3A	IC6003	A C 4A	L7805	A C 2A
C1029	A C 1C	C3035	A C 3C	C4301	B C 1B	C6107	B C 4B	C7811	A C 3A	C8403	B C 3A	IC6004	A C 4A	L8001	A C 2B
C1030	A C 1C	C3036	A C 3B	C4302	B C 1B	C6108	B C 4B	C7812	A C 3A	C8404	B C 3B	IC6101	B C 4C	L8002	B C 3B
C1031	B C 1C	C3037	A C 3B	C4303	B C 1B	C6109	B C 4B	C7813	A C 3A	C8405	B C 3B	IC7402	A C 2C	L8003	B C 3A
C1034	B C 1C	C3038	A C 3C	C4304	B C 1A	C6110	B C 4B	C7814	A C 3A	C8406	B C 3B	IC7801	A C 2A	L8005	B C 3A
C1036	B C 2C	C3039	A C 3C	C4305	B C 1B	C6111	B C 4B	C7815	A C 3A	C8408	B C 3B	IC7802	A C 2A	L8006	B C 3A
C1037	B C 1B	C3040	A C 3C	C4306	B C 1A	C6112	B C 4B	C7816	A C 3A	<b>CONNECTOR</b>		IC7804	A C 3A	L8007	B C 3B
C1038	B C 1C	C3041	A C 3C	C4307	B C 1B	C6113	B C 4B	C7817	A C 2A	CN101	A C 2C	IC8001	B C 2B	L8008	B C 2B
C1101	A C 1C	C3042	A C 3C	C4308	B C 1B	C6114	B C 4C	C7818	A C 2A	CN102	B C 1C	IC8002	B C 1B	L8010	B C 2B
C1102	A C 2C	C3043	A C 3C	C4309	A C 4A	C6115	B C 4C	C7819	A C 3A	CN103	A C 1C	IC8003	B C 3B	L8011	B C 1B
C1103	A C 2C	C3044	A C 3B	C4310	A C 4A	C6116	B C 4C	C7820	A C 2A	CN104	B C 3C	IC8004	B C 3A	L8101	B C 3B
C1111	A C 1C	C3045	A C 4C	C4311	A C 4A	C6117	B C 4C	C7821	A C 2A	CN105	B C 4C	IC8005	B C 2C	L8102	B C 2C
C1112	A C 1C	C3046	A C 3B	C4312	B C 1A	C6118	B C 4B	C7822	A C 2A	CN106	A C 4B	IC8006	B C 3B	L8401	B C 3B
C1113	A C 1C	C3047	A C 3C	C4313	B C 1A	C6119	B C 4C	C7823	A C 2A	CN107	A C 4A	IC8007	A C 2B	L8402	B C 3B
C1401	A C 3B	C3048	A C 4B	C4314	B C 1A	C6120	B C 4C	C7824	A C 2A	CN108	A C 4B	IC8008	B C 2B	<b>TRANSISTOR</b>	
C1402	A C 3B	C3049	A C 3B	C4315	B C 2A	C6121	B C 4C	C7825	A C 2B	CN109	A C 1C	IC8009	B C 2B	Q1001	B C 1C
C1403	A C 3A	C3051	A C 3B	C4316	B C 1A	C6122	B C 4C	C7826	A C 2A	CN110	A C 1B	IC8010	B C 2B	Q1002	B C 1C
C1404	A C 3B	C3052	A C 3B	C4317	B C 1A	C6123	B C 4C	C7827	A C 2B	CN111	A C 1A	IC8011	B C 2B	Q1003	A C 1C
C1405	A C 4B	C3053	A C 3B	C4318	B C 1A	C6124	B C 4C	C7828	A C 3A	CN112	A C 1A	IC8012	B C 2C	Q1004	A C 1C
C1406	A C 3A	C3054	A C 3B	C4319	B C 1A	C6125	B C 3B	C7829	A C 2A	CN113	A C 2A	IC8101	B C 2C	Q1006	A C 1C
C1407	A C 4B	C3056	A C 4B	C4320	B C 1A	C6126	B C 4A	C7830	A C 3A	CN114	A C 3A	IC8102	B C 3B	Q1007	A C 1C
C1408	A C 4B	C3057	A C 4B	C4321	B C 1A	C6127	B C 4B	C7831	A C 2A	<b>DIODE</b>		IC8103	B C 2C	Q1401	A C 3A
C1414	A C 3B	C3058	A C 3B	C4322	B C 1A	C6128	B C 4B	C7832	A C 2A	D1001	B C 1C	IC8401	B C 3A	Q1402	A C 4B
C1415	A C 3B	C3060	A C 2B	C4323	B C 1B	C6129	B C 4B	C7833	A C 3B	D1002	A C 1C	IC8402	A C 4B	Q1403	A C 4B
C1416	A C 4B	C3061	A C 2B	C4324	B C 1B	C6130	B C 4B	C7836	A C 3B	<b>COIL</b>		L1002	A C 1C	Q1601	B C 3C
C1417	A C 3B	C3062	A C 2B	C4325	B C 1B	C6131	B C 4B	C7837	A C 2A	D1602	B C 3C	L1101	A C 1C	Q2701	A C 3A
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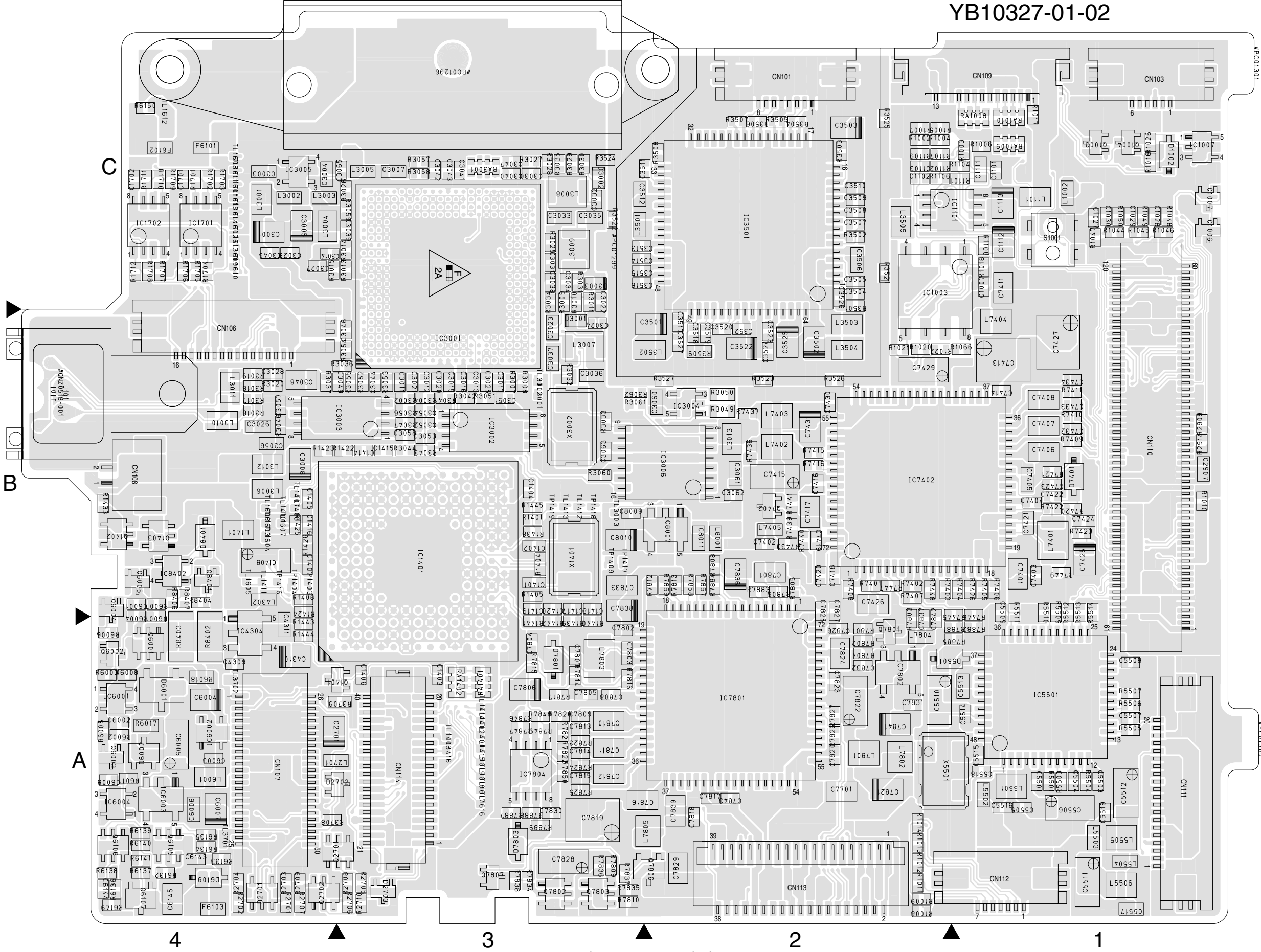
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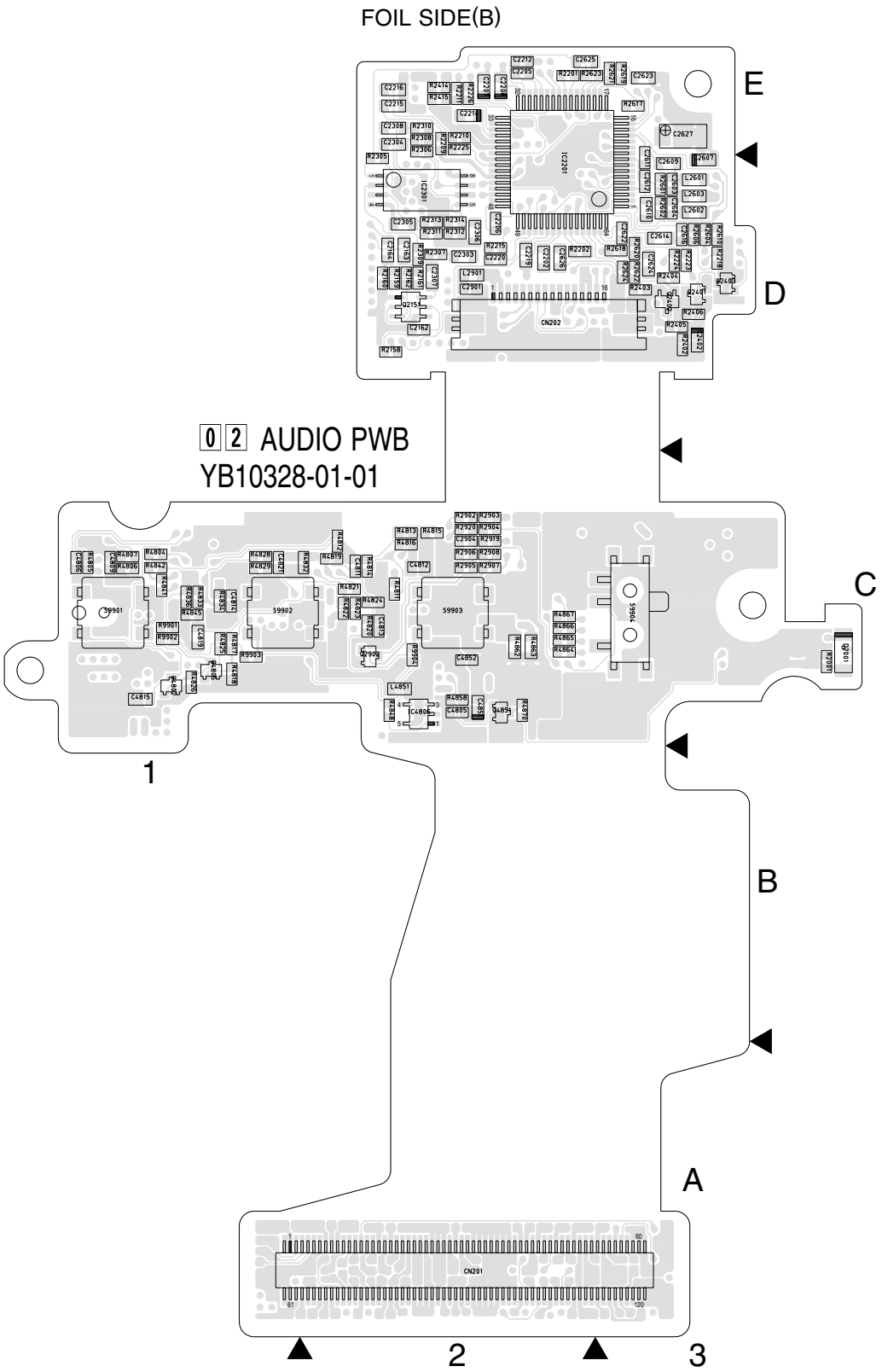


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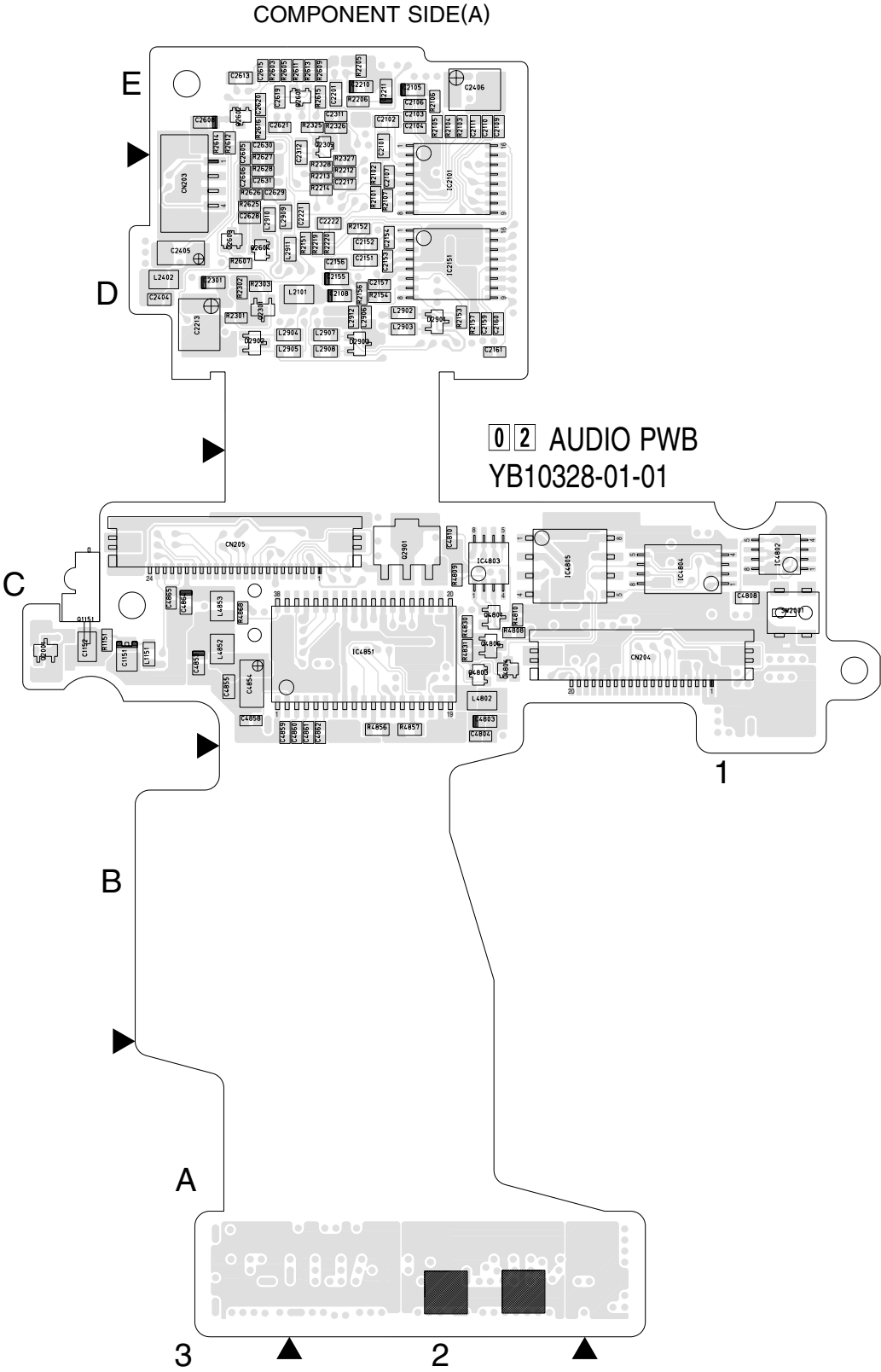


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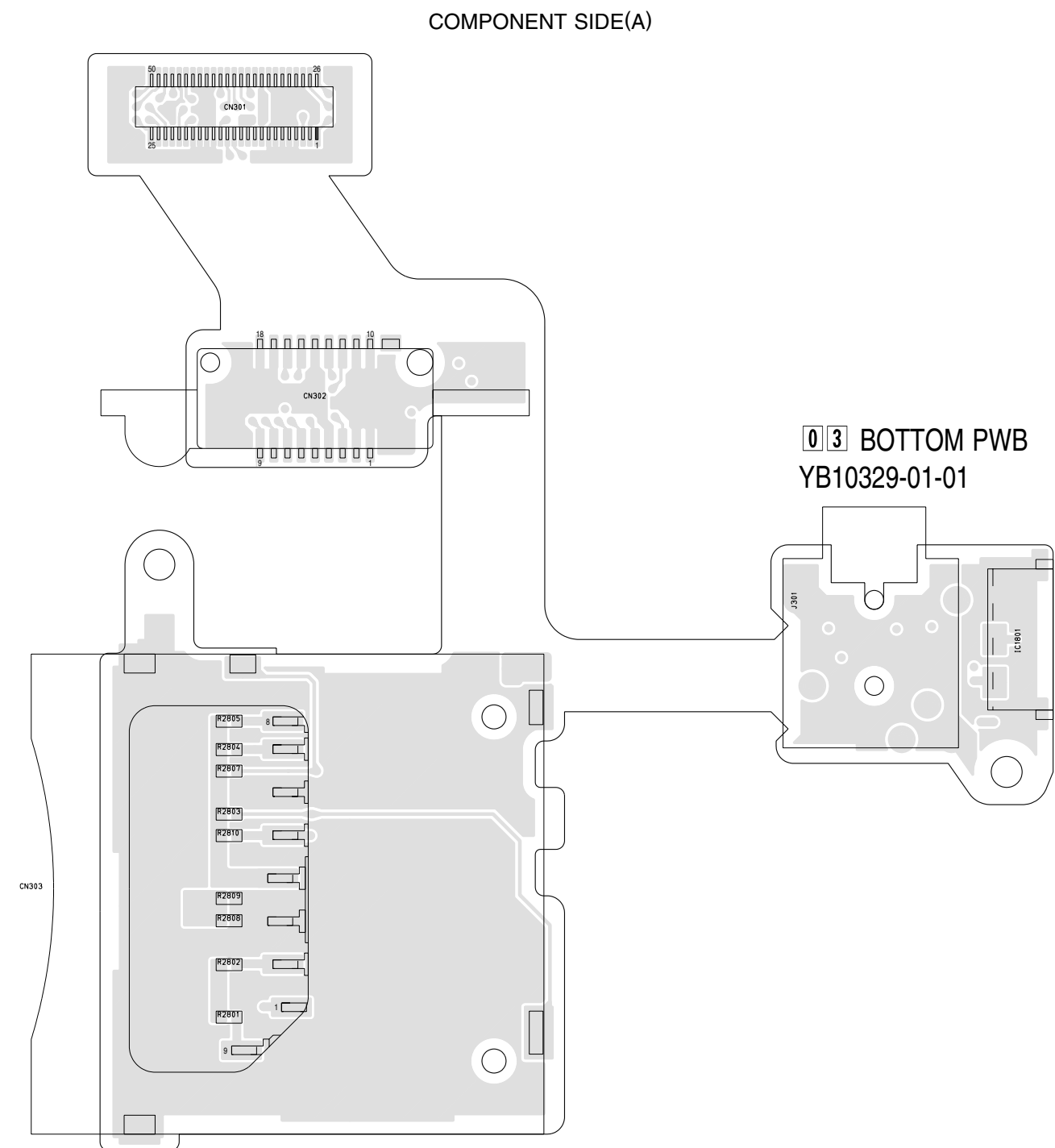
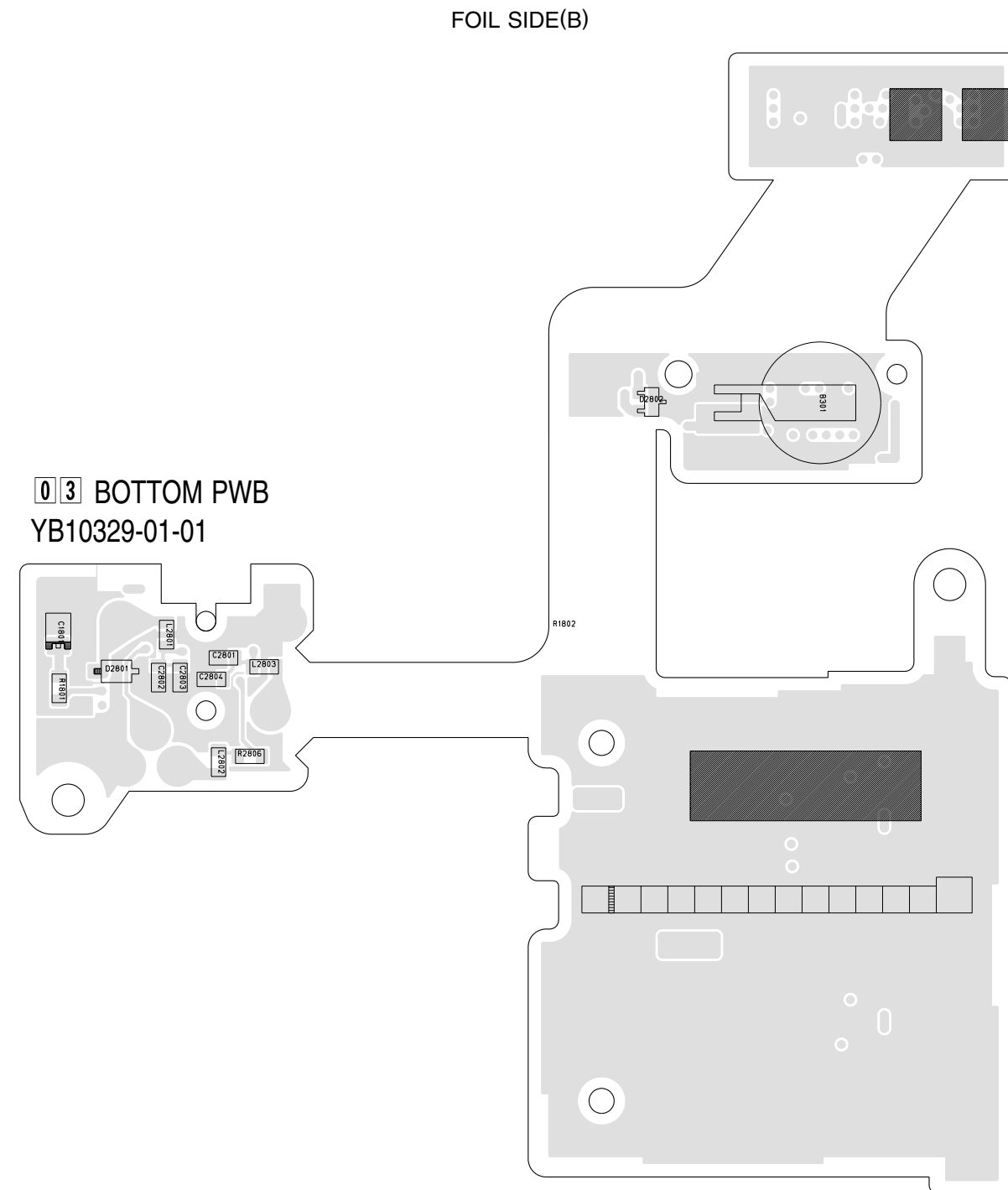


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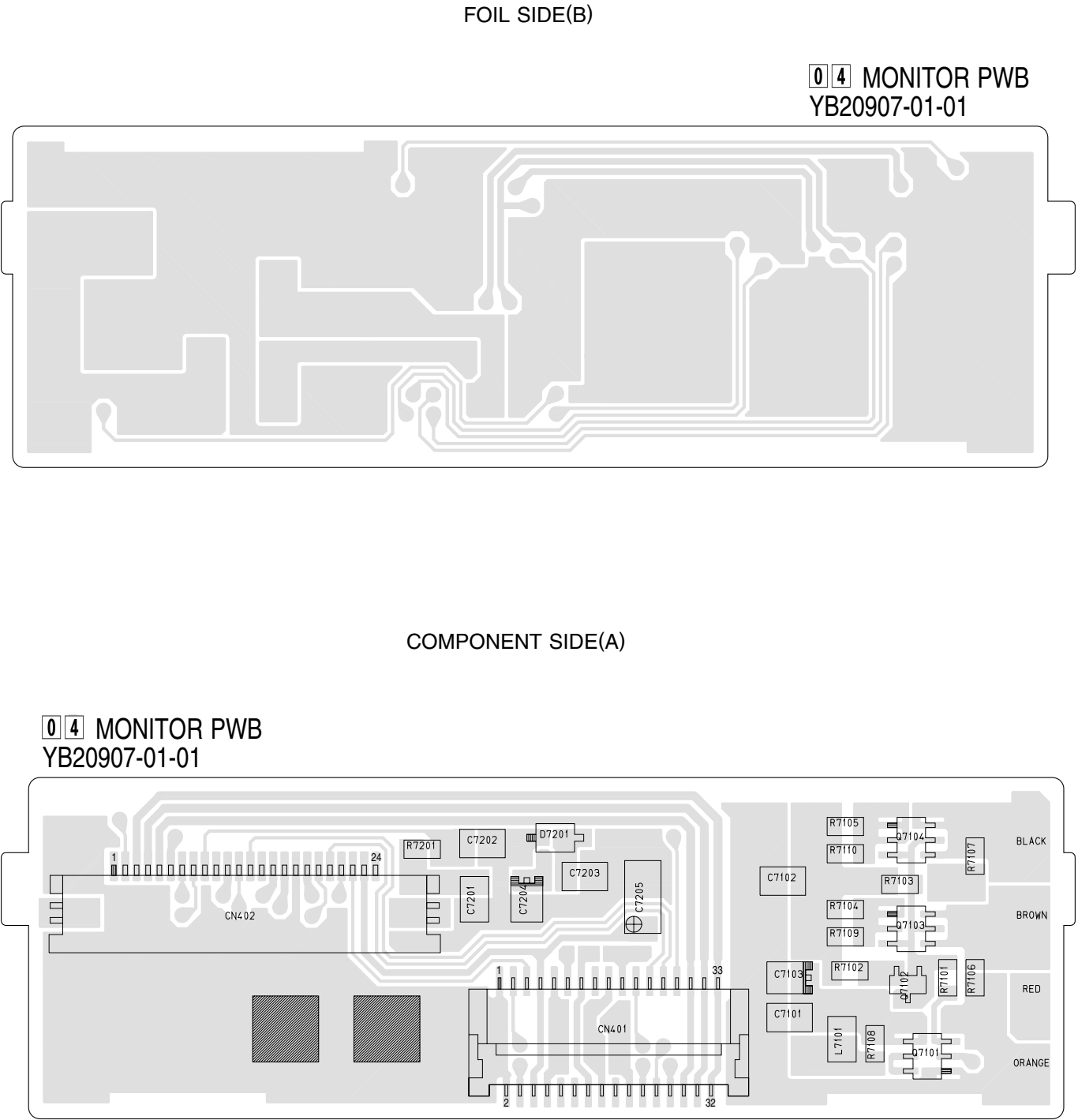
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C2101	A C 2E	C4804	A C 2C	Q2901	A C 2C	R2615	A C 2E
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C2103	A C 2E	C4806	B C 1C	Q4801	A C 2C	R2617	B C 3E
C2104	A C 2E	C4808	A C 1C	Q4802	B C 1C	R2618	B C 3D
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C2108	A C 2D	C4812	B C 2C	Q4806	A C 2C	R2622	B C 3D
C2109	A C 2E	C4813	B C 2C	Q4851	B C 2C	R2623	B C 2E
C2110	A C 2E	C4814	B C 1C			R2624	B C 3D
C2111	A C 2E	C4815	B C 1C	RESISTOR		R2625	A C 3D
C2151	A C 2D	C4819	B C 1C	R1151	A C 3C	R2626	A C 3D
C2152	A C 2D	C4821	B C 1C	R2001	B C 3C	R2627	A C 3D
C2153	A C 2D	C4851	B C 2C	R2101	A C 2D	R2628	A C 3D
C2154	A C 2D	C4852	B C 2C	R2102	A C 2D	R2902	B C 2C
C2155	A C 2D	C4853	A C 3C	R2103	A C 2E	R2903	B C 2C
C2156	A C 2D	C4854	A C 3C	R2104	A C 2E	R2904	B C 2C
C2157	A C 2D	C4855	A C 3C	R2105	A C 2E	R2905	B C 2C
C2159	A C 2D	C4858	A C 3C	R2106	A C 2E	R2906	B C 2C
C2160	A C 2D	C4859	A C 3C	R2107	A C 2D	R2907	B C 2C
C2161	A C 2D	C4860	A C 2C	R2151	A C 2D	R2908	B C 2C
C2162	B C 2D	C4861	A C 2C	R2152	A C 2D	R2919	B C 2C
C2163	B C 2D	C4862	A C 2C	R2153	A C 2D	R2920	B C 2C
C2164	B C 2D	C4864	A C 3C	R2154	A C 2D	R4804	B C 1C
C2201	A C 2E	C4865	A C 3C	R2156	A C 2D	R4805	B C 1C
C2202	B C 2D			R2157	A C 2D	R4806	B C 1C
C2205	B C 2E	CONNECTOR		R2158	B C 2D	R4807	B C 1C
C2206	B C 2D	CN201	B C 1A	R2159	B C 2D	R4808	A C 2C
C2207	B C 2E	CN202	B C 2D	R2160	B C 2D	R4809	A C 2C
C2208	B C 2E	CN203	A C 3D	R2161	B C 2D	R4810	A C 2C
C2210	A C 2E	CN204	A C 1C	R2162	B C 2D	R4811	B C 2C
C2211	A C 2E	CN205	A C 2C	R2201	B C 2E	R4812	B C 2C
C2212	B C 2E	DIODE		R2202	B C 2D	R4813	B C 2C
C2213	B C 3D	D2001	B C 3C	R2205	A C 2E	R4814	B C 2C
C2214	B C 2E	D2901	A C 2D	R2206	A C 2E	R4815	B C 2C
C2215	B C 2E	D2902	A C 3D	R2209	B C 2E	R4816	B C 2C
C2216	B C 2E	D2903	A C 2D	R2210	B C 2E	R4817	B C 1C
C2217	A C 2D	IC		R2211	B C 2E	R4818	B C 1C
C2219	B C 2D	IC2101	A C 2D	R2212	A C 2D	R4819	B C 2C
C2220	B C 2D	IC2151	A C 2D	R2213	A C 2D	R4820	B C 2C
C2221	A C 2D	IC2201	B C 2D	R2214	A C 2D	R4821	B C 2C
C2222	A C 2D	IC2301	B C 2D	R2215	B C 2D	R4822	B C 2C
C2301	A C 3D	IC4802	A C 1C	R2218	B C 3D	R4823	B C 2C
C2303	B C 3D	IC4803	A C 2C	R2219	A C 2D	R4824	B C 2C
C2304	B C 2E	IC4804	A C 1C	R2220	A C 2D	R4825	B C 1C
C2305	B C 2D	IC4805	A C 2C	R2223	B C 3D	R4826	B C 1C
C2306	B C 2D	IC4806	B C 2C	R2224	B C 3D	R4828	B C 1C
C2307	B C 2D	IC4851	A C 2C	R2225	B C 2E	R4829	B C 1C
C2308	B C 2E	COIL		R2226	B C 2E	R4830	A C 2C
C2311	A C 2E	L1151	A C 3C	R2301	A C 3D	R4831	A C 2C
C2312	A C 3D	L2101	A C 2D	R2302	A C 3D	R4832	A C 2C
C2402	B C 3D	L2402	A C 3D	R2303	A C 3D	R4833	B C 1C
C2404	A C 3D	L2601	B C 3D	R2305	B C 2D	R4834	B C 1C
C2405	A C 3D	L2602	B C 3D	R2306	B C 2E	R4836	B C 1C
C2406	A C 2E	L2603	B C 3D	R2307	B C 2D	R4841	B C 1C
C2603	B C 3D	L2901	B C 3D	R2308	B C 2E	R4842	B C 1C
C2604	B C 3D	L2902	A C 2D	R2309	B C 2D	R4845	B C 1C
C2605	A C 3E	L2903	A C 2D	R2310	B C 2E	R4848	B C 2C
C2606	A C 3D	L2904	A C 3D	R2311	B C 2D	R4856	A C 2C
C2607	B C 3D	L2905	A C 3D	R2312	B C 2D	R4857	A C 2C
C2608	A C 3E	L2906	A C 2D	R2313	B C 2D	R4858	B C 2C
C2609	B C 3D	L2907	A C 2D	R2314	B C 2D	R4862	B C 2C
C2610	B C 3D	L2908	A C 2D	R2325	A C 2E	R4863	B C 2C
C2611	B C 3D	L2909	A C 3D	R2326	A C 2E	R4864	B C 2C
C2612	B C 3D	L2910	A C 3D	R2327	A C 2D	R4865	B C 2C
C2613	A C 3E	L2911	A C 2D	R2328	A C 2D	R4866	B C 2C
C2614	B C 3D	L2912	A C 2D	R2402	B C 3D	R4867	B C 2C
C2615	A C 3E	L4802	A C 2C	R2403	B C 3D	R4868	A C 3C
C2616	B C 3D	L4851	B C 2C	R2404	B C 3D	R4870	B C 2C
C2619	A C 3E	L4852	A C 3C	R2405	B C 3D	R9901	B C 1C
C2620	A C 3E	L4853	A C 3C	R2406	B C 3D	R9902	B C 1C
C2621	A C 3E	TRANSISTOR		R2414	B C 2E	R9903	B C 1C
C2622	B C 3D	Q1151	A C 3C	R2415	B C 2E	R9904	B C 2C
C2623	B C 3E	Q2001	A C 3C	R2601	B C 3D	OTHER	
C2624	B C 3D	Q2151	B C 2D	R2602	B C 3D	J1	A C 1E
C2625	B C 2E	Q2301	A C 3D	R2603	A C 3E	J2	A C 1E
C2626	B C 2D	Q2302	A C 2E	R2604	A C 3E	S7001	A C 1E
C2627	B C 3E	Q2401	B C 3D	R2605	A C 3E	S9901	B C 1C
C2628	A C 3D	Q2402	B C 3D	R2606	B C 3D	S9902	B C 1C
C2629	A C 3D	Q2403	B C 3D	R2607	A C 3D	S9903	B C 2C
C2630	A C 3E	Q2601	A C 2E	R2610	B C 3D	S9904	B C 3C
C2631	A C 3D			R2611	A C 2E	SW2001	A C 1C



#### 4.28 BOTTOM CIRCUIT BOARD

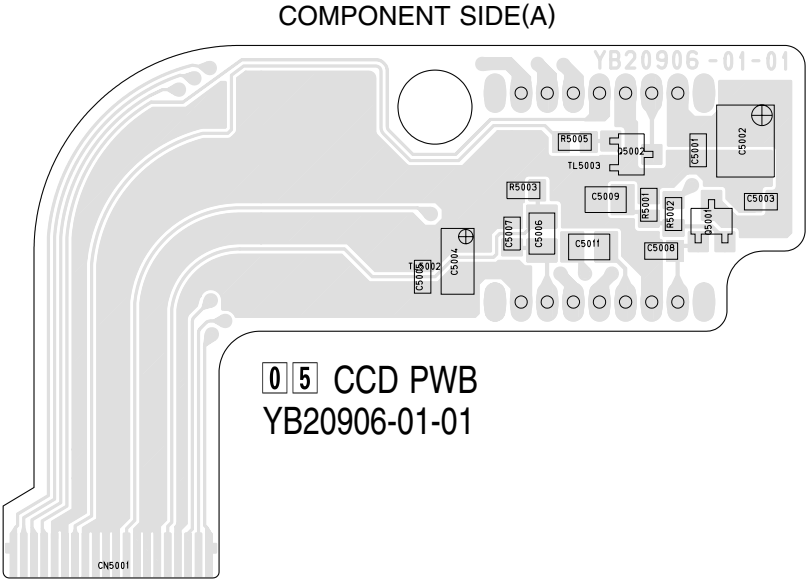
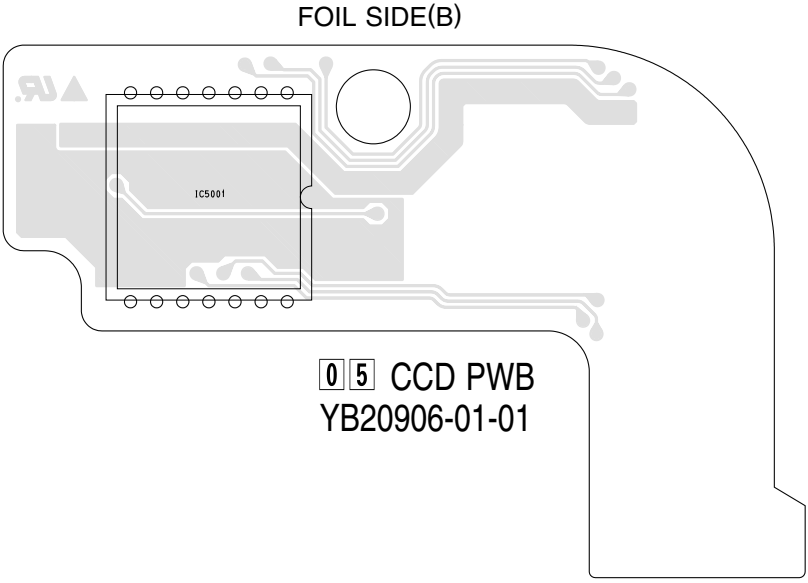


4.29 MONITOR CIRCUIT BOARD

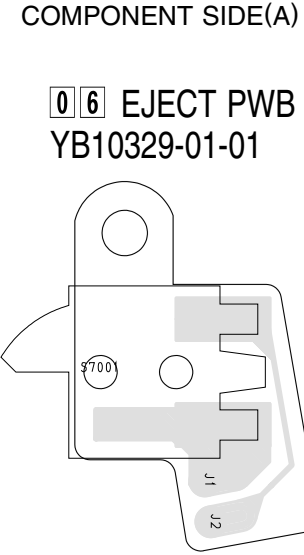
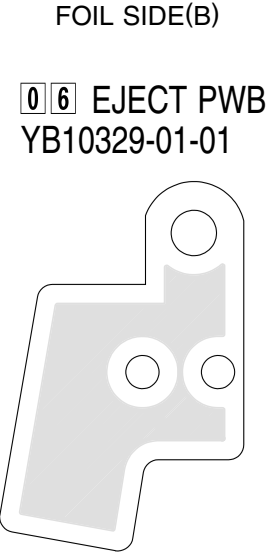


4.30 CCD AND EJECT CIRCUIT BOARDS

—CCD—



—EJECT—



### 4.31 VOLTAGE CHARTS

<REG CON>

MODE PIN NO.	REC	PLAY
IC6001		
1	6.8	6.8
2	6.5	6.6
3	0	0
4	0	0
IC6002		
1	0	0
2	6.8	6.8
3	0	3.3
4	0	0
IC6003		
1	6.8	6.8
2	0	0
3	6.8	6.8
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
Q2701		
1(E)	0	0
2(B)	0	0
3(C)	0	0
4(E)	0	0
5(B)	0	0
6(C)	0	0
Q2702		
1(E)	0	0
2(B)	0	0
3(C)	0	0
4(E)	0	0
5(B)	0	0
6(C)	0	0
Q6001		
1(D)	0	6.8
2(D)	0	6.8
3(G)	0	0
4(S)	6.8	6.8
5(D)	6.8	6.8
6(D)	6.8	6.8
Q6002		
D	0	0
S	0	0
G	6.8	6.8
Q6003		
D	0	0
S	0	0
G	3.1	3.1
Q6004		
D	6.5	6.5
S	0	0
G	0	0
Q6005		
E	0	0
C	0	0
B	3.0	3.0

<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	6.8	6.8
6	1.0	1.0
7	1.3	1.3
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	0.7	0.7
15	0	0
16	0	0
17	0.6	0.6
18	1.0	1.0
19	1.1	1.1
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	0.9	0.9
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	6.8	6.8
34	6.8	6.8
35	3.0	3.0
36	3.0	3.0
37	0	0
38	4.4	4.4
39	0	0
40	0	0
41	0	0
42	0	0
43	0	0
44	0	0
45	0	0
46	0	0
47	0	0
48	2.2	2.2
Q6101		
1	3.6	3.4
2	6.8	6.8
3	4.8	4.8
4	1.8	1.8
5	0	0
6	3.0	3.0
Q6102		
1	4.4	4.4
2	6.8	6.8
3	5.8	5.8
4	0.9	0.9
5	6.8	6.8
6	2.6	2.6

MODE PIN NO.	REC	PLAY
Q6103		
1	1.9	1.9
2	6.8	6.8
3	2.7	2.0
4	0	1.2
5	6.8	6.8
6	4.8	4.8
Q6104		
E	-15.5	-16.2
C	-6.6	-7.0
B	-15.0	-15.8
Q6105		
1(E)	-5.0	-5.0
2(B)	-4.8	-4.8
3(C)	-15.0	-15.0
4(E)	0	0
5(B)	0	0
6(C)	0	0
Q6106		
1(E)	4.3	4.3
2(B)	4.9	4.9
3(C)	15.2	15.2
4(E)	4.3	4.3
5(B)	4.8	4.8
6(C)	15.8	15.8
Q6107		
E	15.8	15.8
C	12.2	12.2
B	15.2	15.2

<AUDIO AD/DA>

MODE PIN NO.	REC	PLAY
IC2101		
1	1.3	0
2	0	0
3	1.4	0
4	0	0
5	3.0	3.0
6	3.0	3.1
7	0	0
8	0	0
9	1.4	1.3
10	1.5	1.5
11	1.4	1.4
12	0	1.5
13	3.0	0
14	0	3.1
15	2.0	1.4
16	1.9	1.3
IC2151		
1	0	0
2	0	0
3	1.2	-
4	0	0
5	3.0	3.0
6	0	3.0
7	0	0

MODE PIN NO.	REC	PLAY
8	0	0
9	0	0
10	1.5	1.5
11	1.6	1.6
12	1.5	1.5
13	0	0
14	0	0
15	0	0
16	0	0
Q2151		
1(E)	0	0
2(B)	0	0
3(C)	0	0
4(E)	0	0
5(B)	0	0
6(C)	0	0

<MAIN AUDIO>

MODE PIN NO.	REC	PLAY
IC2201		
1	1.4	0
2	1.4	0
3	1.4	0.5
4	1.4	0
5	1.4	0
6	1.4	1.6
7	0	0
8	2.1	2.3
9	2.1	2.3
10	0	0
11	1.4	1.6
12	1.4	1.0
13	1.4	1.6
14	1.4	0.5
15	1.4	0
16	0	0.5
17	1.4	1.6
18	1.4	1.6
19	1.4	1.0
20	1.4	0.8
21	1.4	0
22	2.6	2.9
23	1.4	0
24	1.4	0
25	2.5	2.1
26	1.0	0.5
27	2.2	0
28	2.2	2.2
29	2.4	2.2
30	2.2	2.2
31	2.2	2.2
32	2.2	2.2
33	4.8	4.8
34	4.7	4.7
35	0	0
36	2.4	2.4

MODE PIN NO.	REC	PLAY
37	4.7	4.7
38	2.2	2.2
39	1.8	1.8
40	0	0
41	3.1	3.1
42	0	0
43	0	2.2
44	0	3.0
45	1.4	1.6
46	0	0
47	2.4	0
48	2.2	2.6
49	1.4	0
50	1.4	1.6
51	1.4	1.6
52	1.6	0
53	1.6	0
54	0	3.1
55	0	0
56	2.4	0
57	1.4	0
58	1.4	0.5
59	2.6	2.9
60	0	0.5
61	1.4	0.7
62	1.4	0.8
63	1.4	1.6
64	1.4	1.6
IC2301		
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	2.3	2.3
8	4.6	4.6
Q2302		
E	1.3	1.3
C	4.6	4.6
B	1.9	1.9
Q2401		
E	2.6	3.0
C	4.8	4.8
B	3.3	3.6
Q2402		
E	4.8	0
C	4.8	4.8
B	4.1	4.1
Q2403		
E	0	0
C	0	0
B	3.1	3.0
Q2601		
E	0.8	1.0
C	2.6	3.0
B	1.4	1.4
Q2602		
E	0.8	0.9
C	2.6	3.0
B	1.4	1.6
Q2603	-	-
Q2604	-	-

MODE PIN NO.	REC	PLAY
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

<OPDRV>

MODE PIN NO.	REC	PLAY
IC4802		
1	2.5	2.5
2	2.2	2.2
3	0	2.2
4	0	0
5	2.1	2.1
6	2.2	2.2
7	0	2.2
8	4.8	4.8
IC4803		
1	1.0	1.0
2	0	0
3	0	0
4	0	0
5	2.1	2.2
6	2.1	2.2
7	0.6	3.3
8	4.8	4.8
IC4804		
1	0.7	0.7
2	2.3	2.3
3	2.3	2.3
4	0	0
5	2.2	2.2
6	1.7	1.7
7	4.0	4.0
8	4.8	4.8
IC4805	-	-
IC4806		
1	0.4	3.0
2	3.0	3.0
3	0	0
4	0	3.0
5	3.0	3.0
IC4851		
1	0	0
2	0.5	0
3	0	0.4
4	0.4	0
5	0	0.4
6	0	0
7	0	0
8	3.0	3.0
9	4.8	4.8
10	1.0	0
11	0	0

MODE PIN NO.	REC	PLAY
12	1.0	0
13	4.8	4.8
14	1.2	0
15	0	0
16	1.1	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	4.8	4.8
24	0	0
25	0	0
26	0	0
27	4.8	4.8
28	0	0
29	0	0
30	0	0
31	3	3
32	0	0
33	0	0
34	0	1.8
35	3.1	3.1
36	1.5	1.5
37	1.5	1.4
38	3.0	3.1
Q4801		
E	0	0
C	0	1.8
B	1.0	1.0
Q4802	-	-
Q4803		
E	0	0
C	4.8	4.8
B	0	0
Q4804		
E	0	4.8
C	1.6	3.0
B	4.8	4.8
Q4805		
E	0	0
C	4.0	4.0
B	0	0
Q4806	-	-
Q4851		
E	0	0
C	3.9	3.7
B	0	0

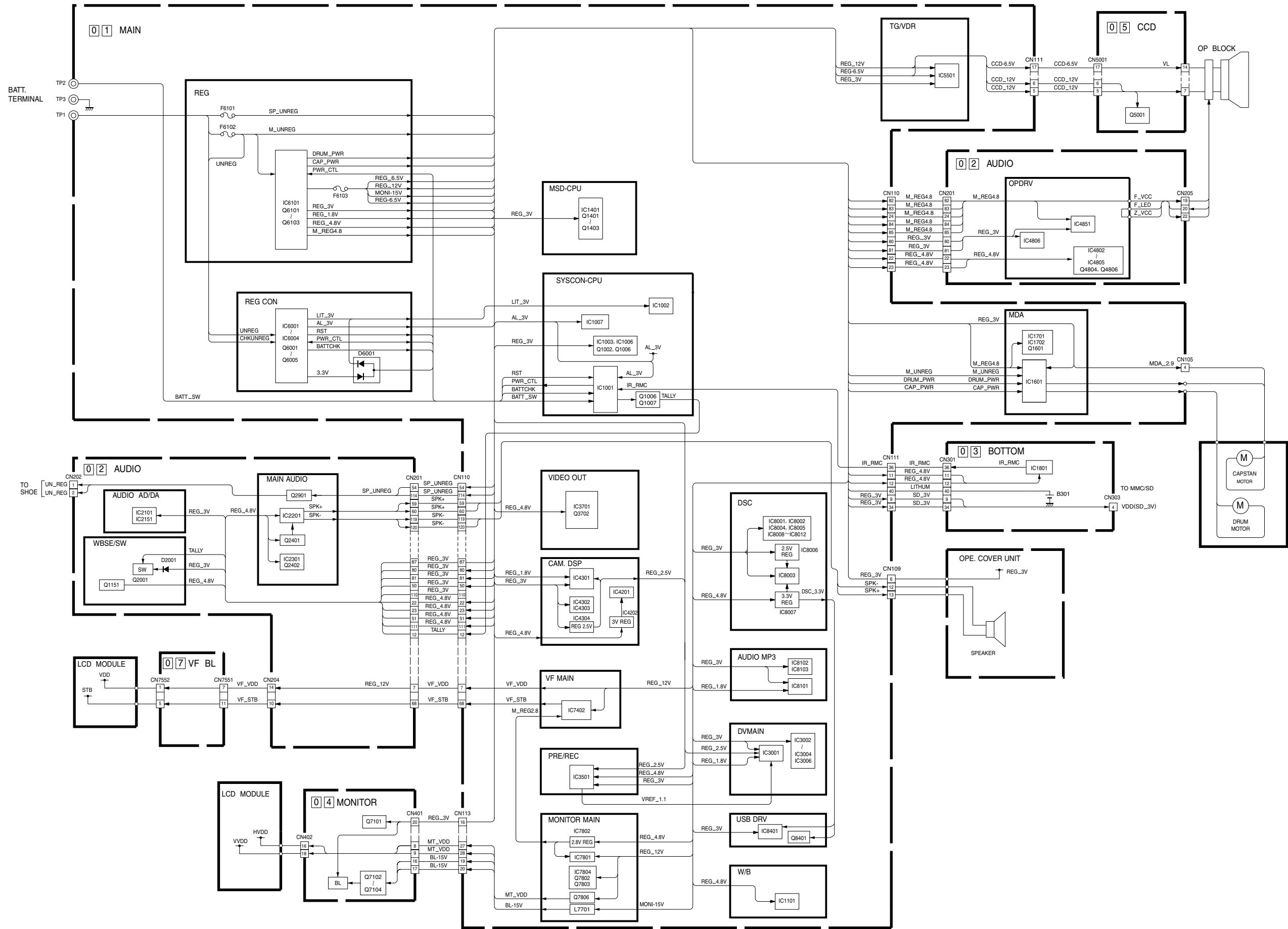
<MONITOR>

MODE PIN NO.	EE
Q7101	
1(E)	0
2(B)	3.0
3(C)	3.0
4(E)	3.0
5(B)	0
6(C)	0
Q7102	
E	-15.0
C	0
B	-14.4
Q7103	
1(E)	-15.0
2(B)	-15.0
3(C)	-14.4
4(E)	-9.9
5(B)	-14.5
6(C)	-9.9
Q7104	
1(E)	-15.0
2(B)	-15.0
3(C)	-14.4
4(E)	0
5(B)	-14.4
6(C)	-10.5

<CCD>

MODE PIN NO.	EE
Q5001	
E	8.4
C	12.1
B	9.1
Q5002	
E	0
C	6.6
B	0

4.32 POWER SYSTEM BLOCK DIAGRAM



4.33 VIDEO SYSTEM BLOCK DIAGRAM

