


# 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 or 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

AUX or AUX(L) : Active at low

### 3. Interpreting Connector indications



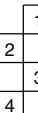
Removable connector



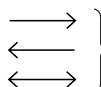
Wire soldered directly on board



Non-removable Board connector



Board to Board



Connected pattern on board  
The arrows indicate signal path

### 4. Voltage measurement

1) Video circuits

REC : Colour bar signal in SP mode, normal VHS mode

PB : Alignment tape, colour bar SP mode, normal VHS mode

— : Unmeasurable or unnecessary to measure

2) Audio circuits

REC : 1KHz, -8 dBs sine wave signal in SP mode, Normal VHS mode

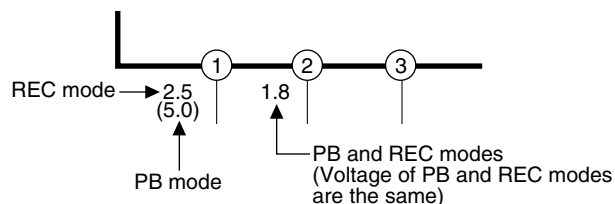
PB : REC then playback it

3) Movie Camera circuits

Measured using a correctly illuminated gray scale or colour bar test charts in the E-E mode

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. Waveform measurement

1) Video circuits

REC : Colour bar signal in SP mode, normal VHS mode

PB : Alignment tape, colour bar SP mode, normal VHS mode

2) Audio circuits

REC : 1KHz, -8 dBs sine wave signal in SP mode, normal VHS mode

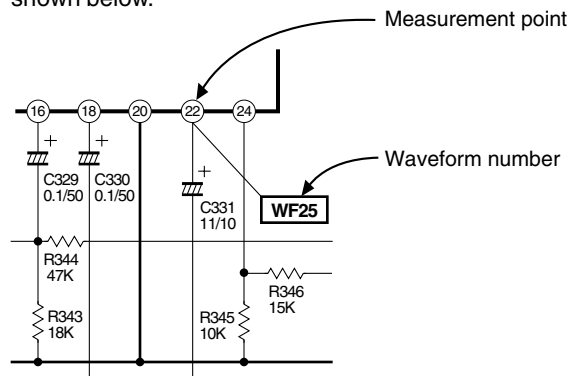
PB : REC then playback it

3) Movie Camera circuits

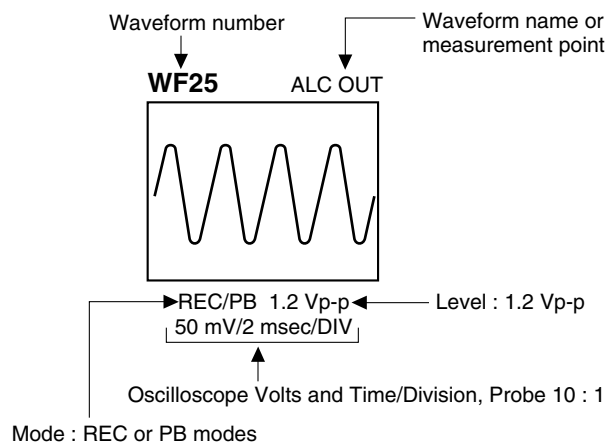
Measured using a correctly illuminated gray scale or colour bar test charts in the E-E mode

4) Indication on schematic diagram

Waveform indications on the schematic diagram are as shown below.

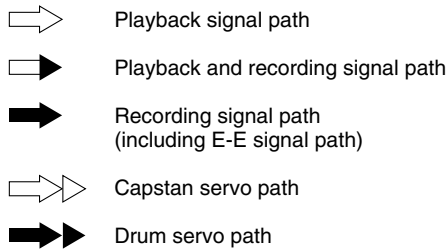


### 5) Waveform indications

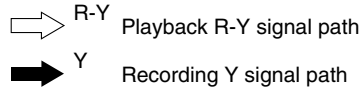


## 6. Signal path Symbols

The arrows indicate the signal path as follows.



(Example)



## 7. Indication of the parts for adjustments

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



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

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



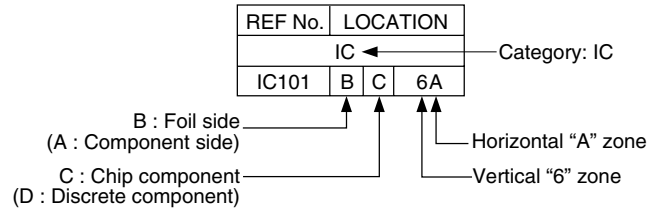
## CIRCUIT BOARD NOTES

### 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.

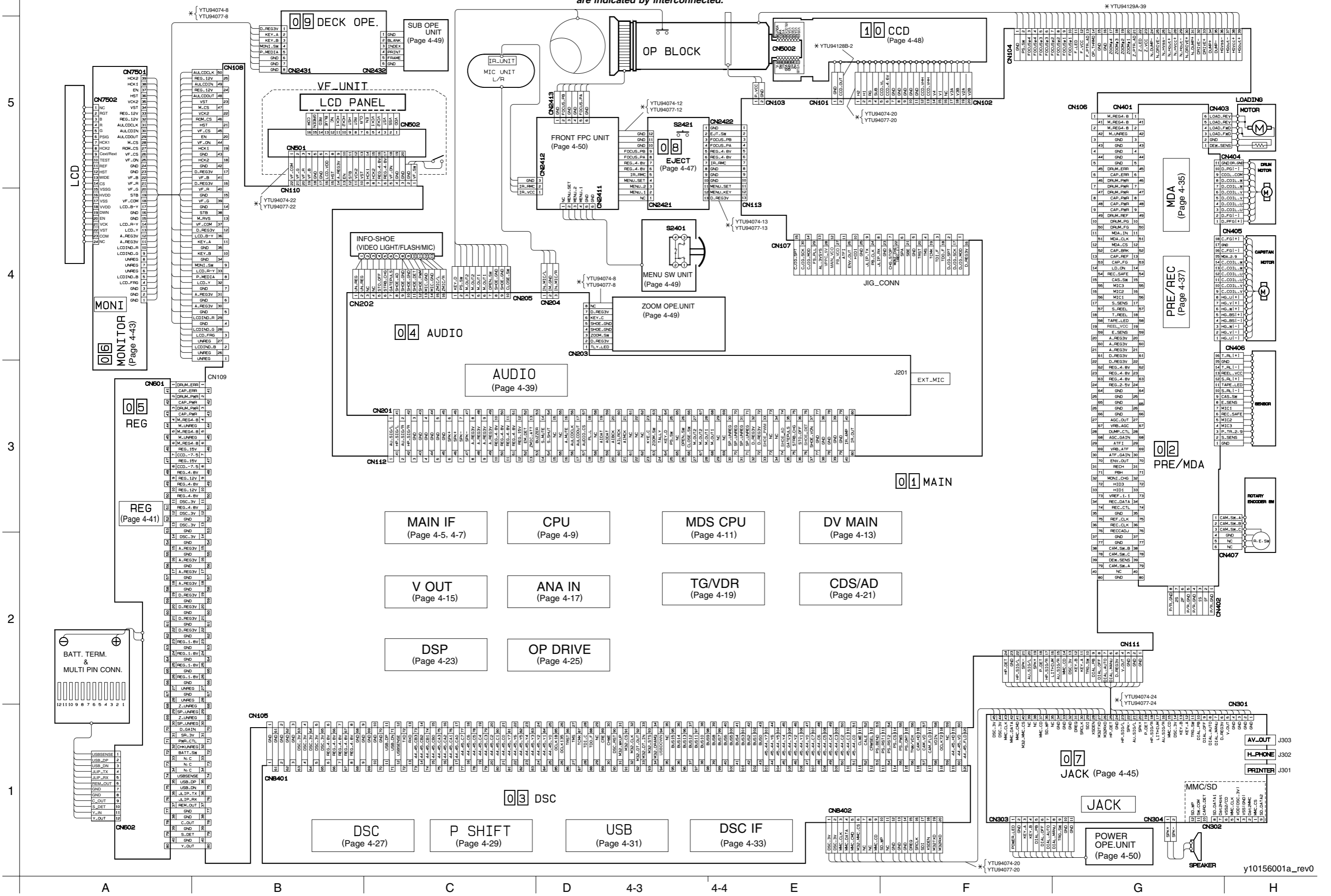


### Note:

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

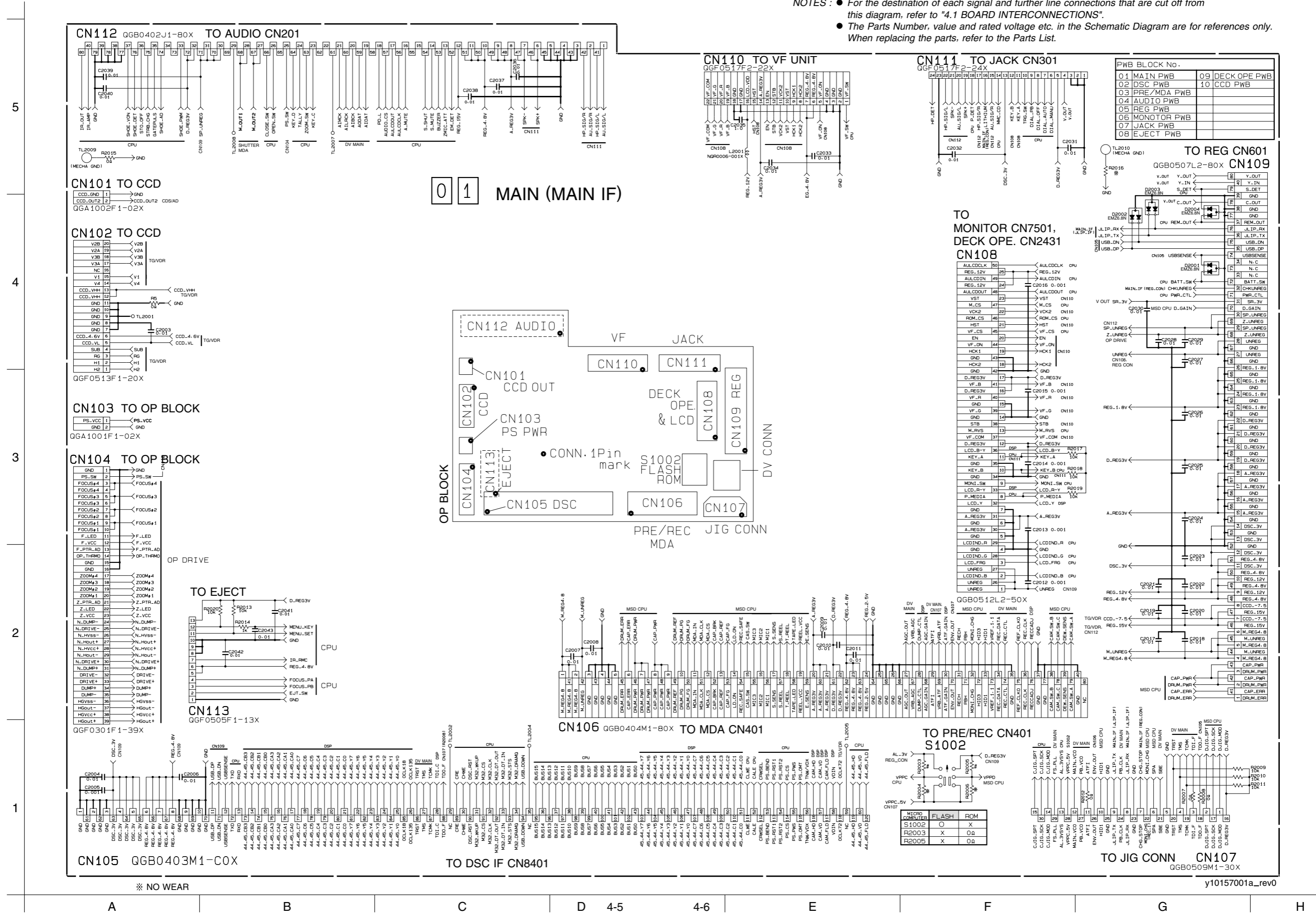
# 4.1 BOARD INTERCONNECTIONS

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".  
● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



A

B

C

D

4-5

4-6

E

F

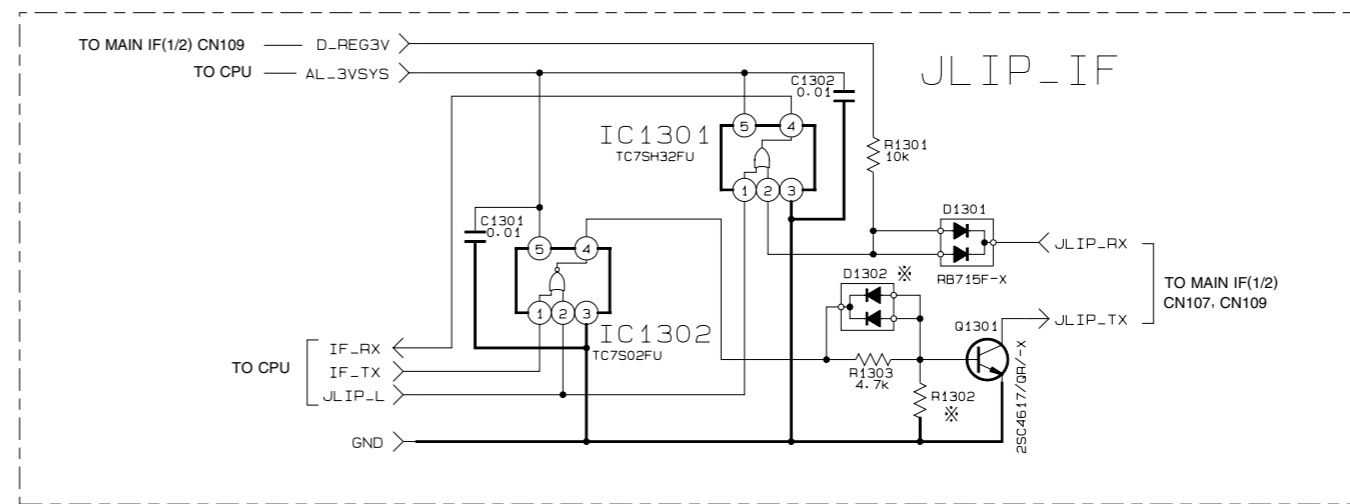
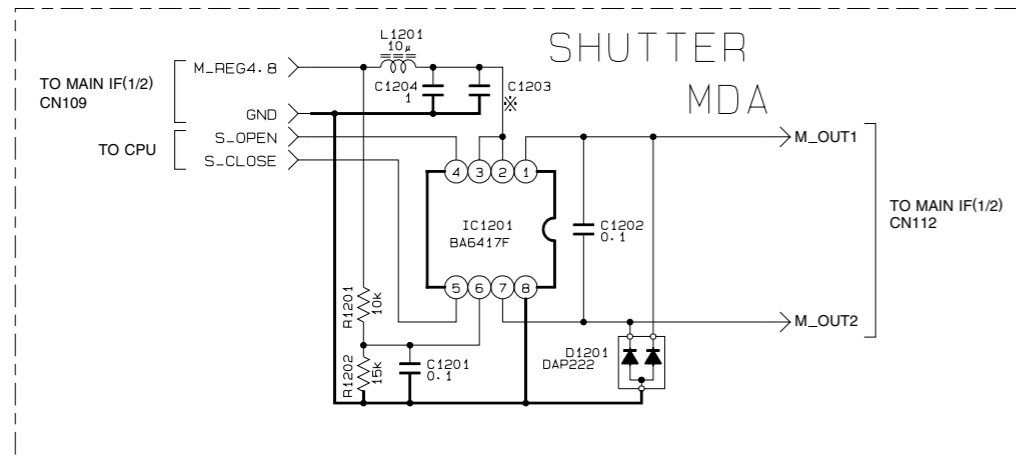
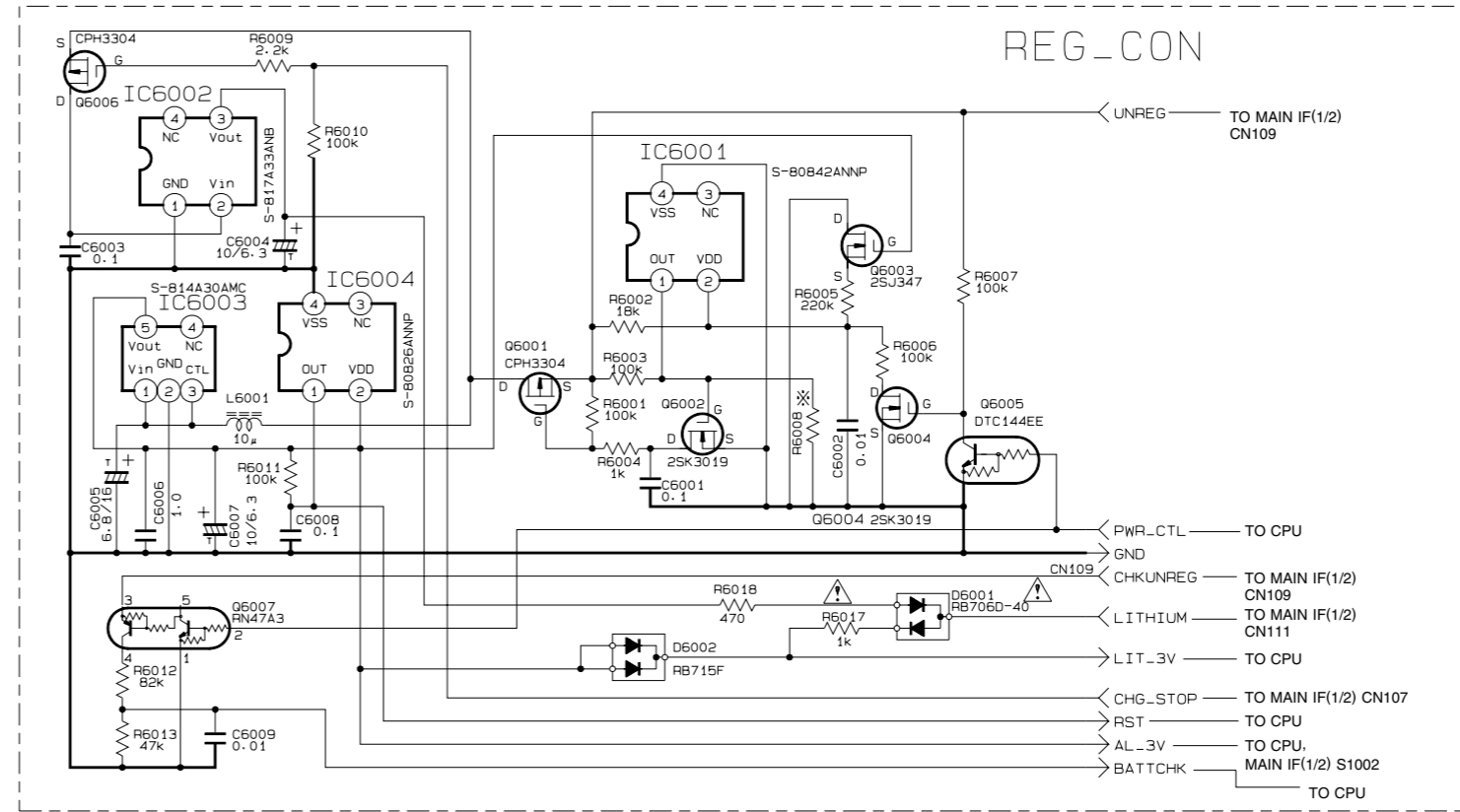
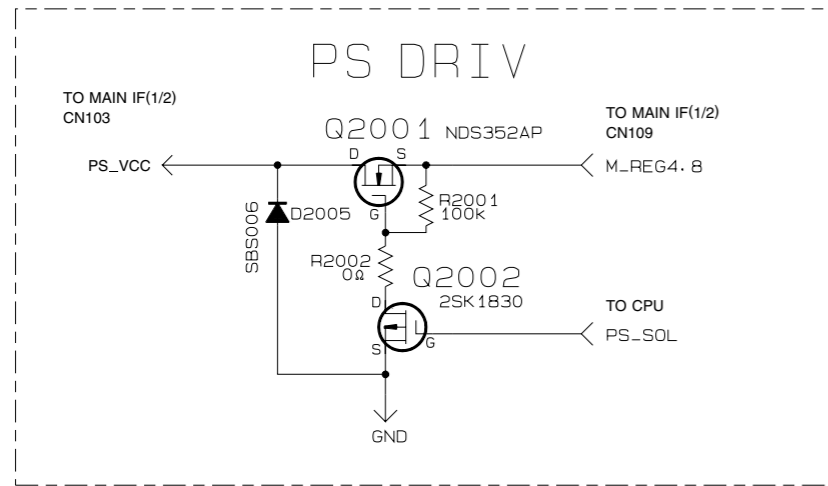
G

H

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".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

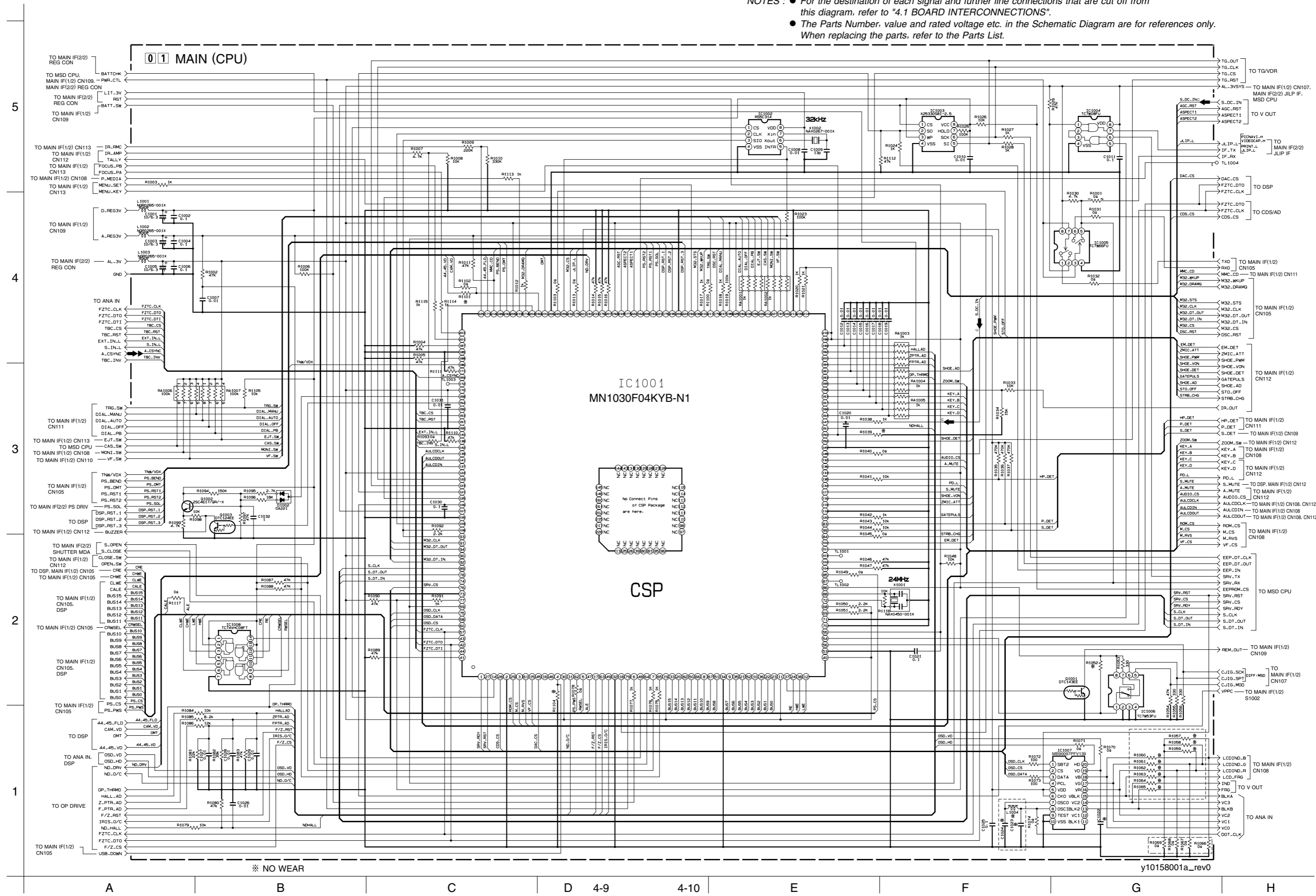
01 MAIN (MAIN IF)



※ 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".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

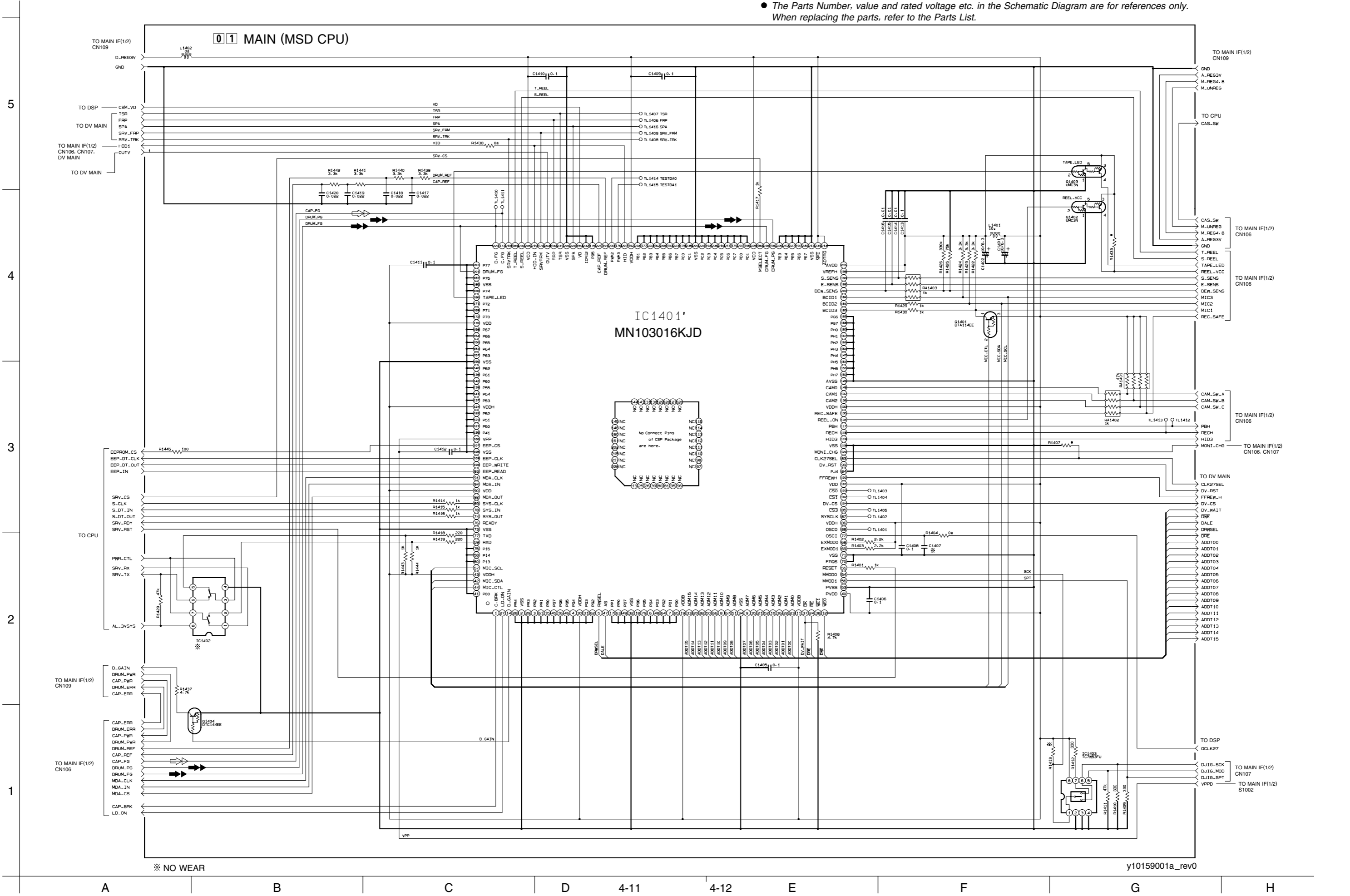


※ NO WEAR

y10158001a\_rev0

# 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".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

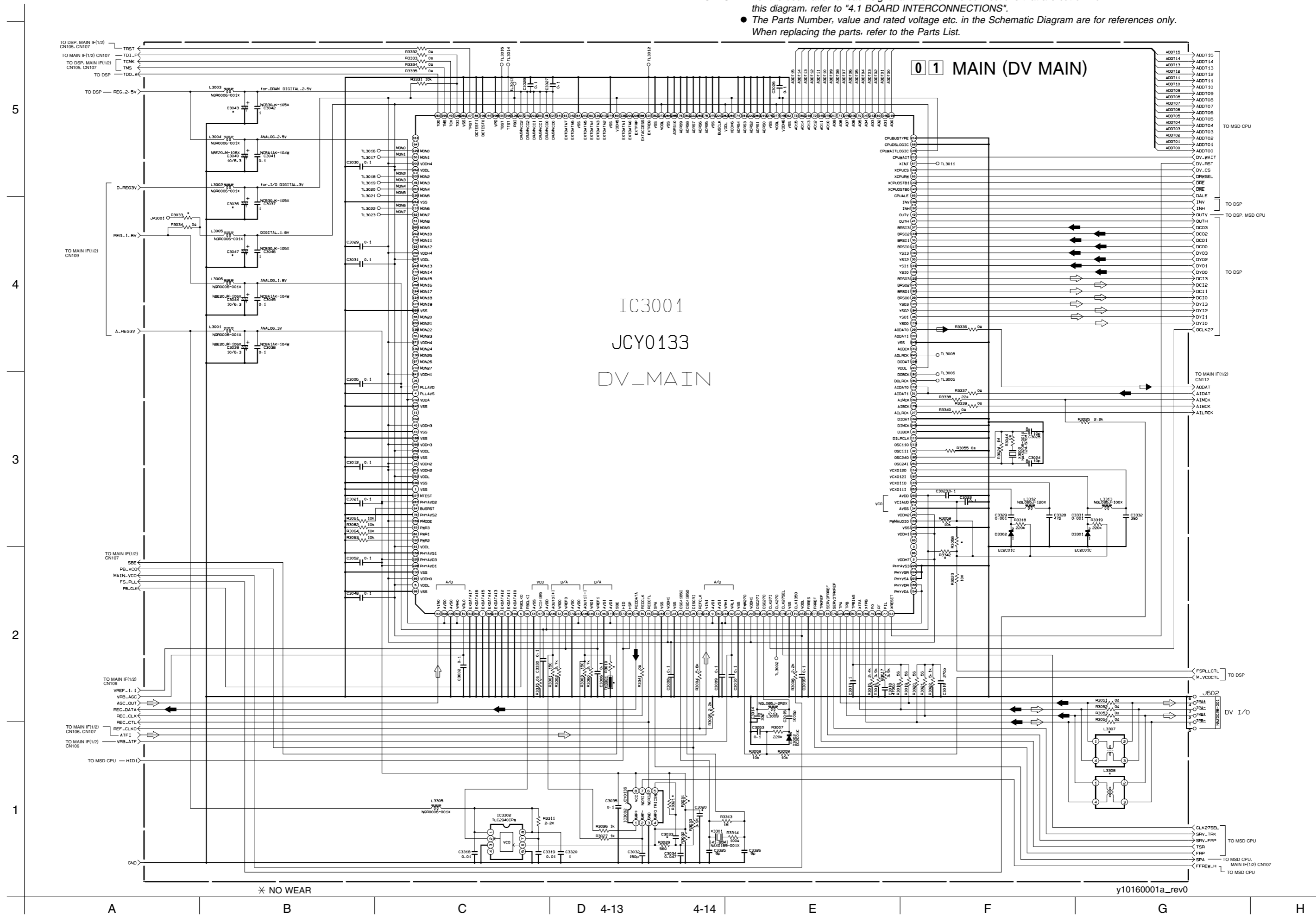


5  
4  
3  
2  
1

A B C D 4-11 4-12 E F G H

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".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



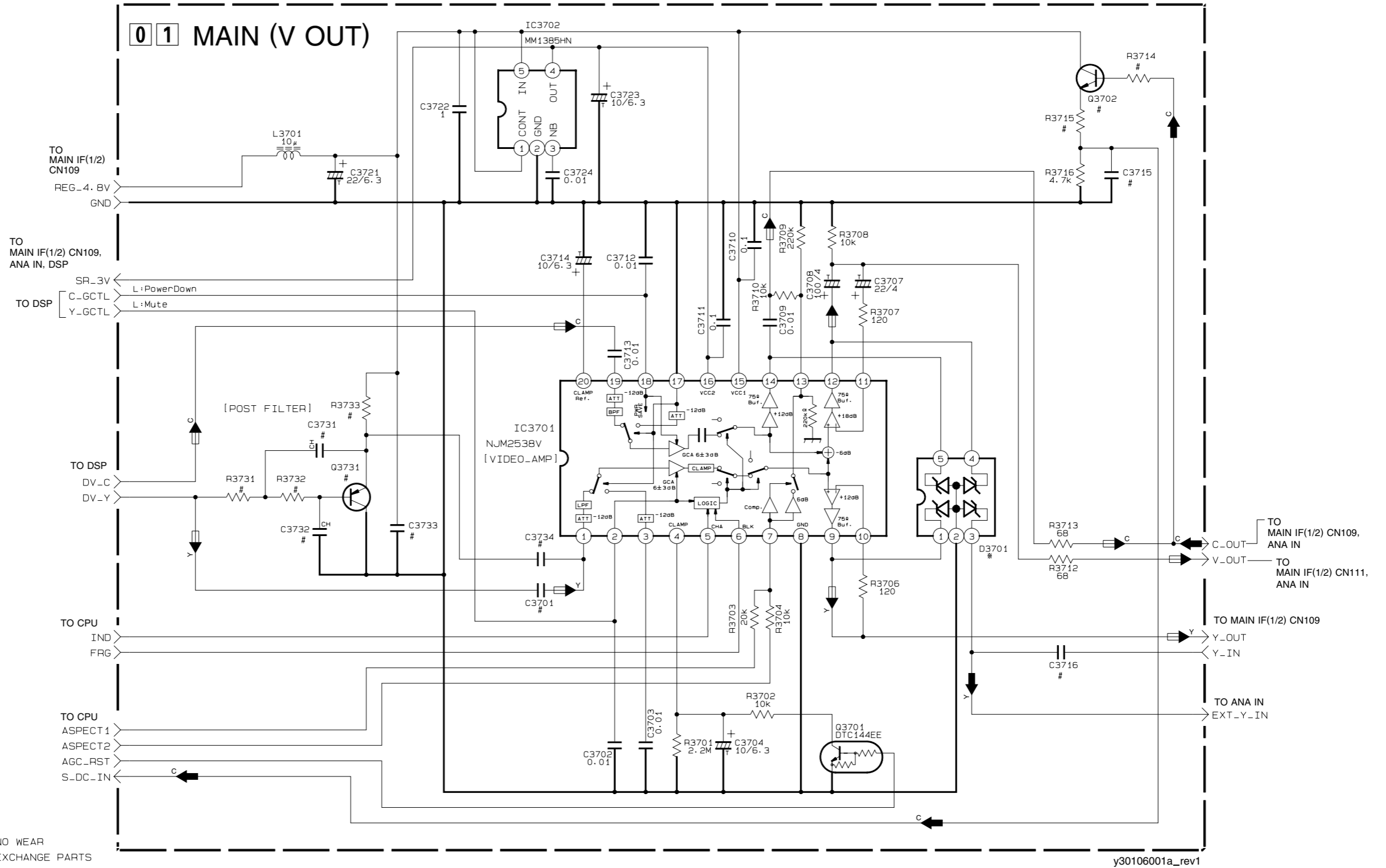
IC3001  
 JCY0133  
 DV\_MAIN

0 1 MAIN (DV MAIN)



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".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



# EXCHANGE PARTS LIST

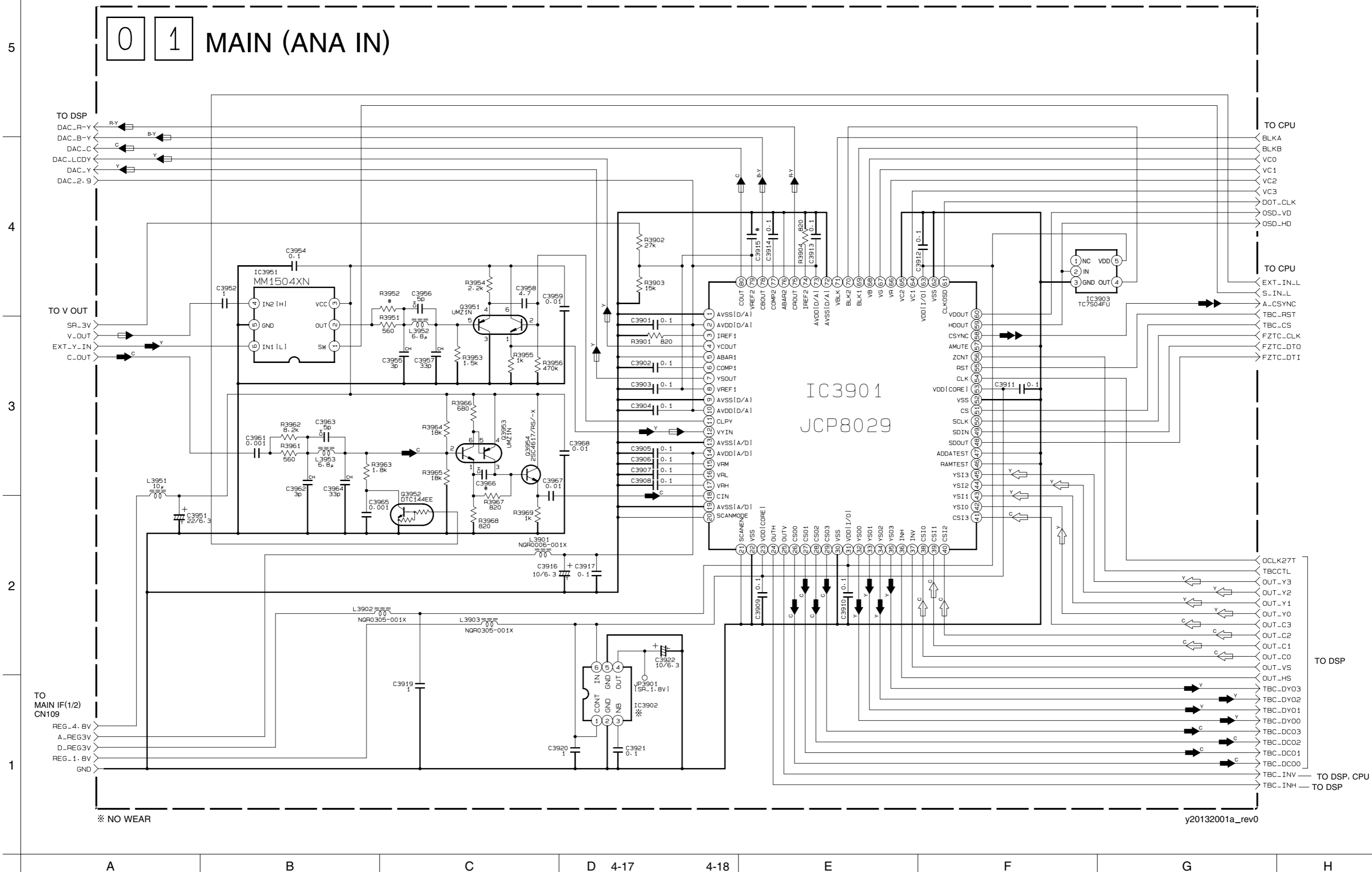
	ANALOG_IN			ANALOG_IN	
	○	×		○	×
Q3702	2SC4617/RS/-X	*	C3701	0.1	*
Q3731	*	2SA1774/RS/-X	C3715	0.01	*
R3714	100	*	C3716	1	*
R3715	4.7k	*	C3731	*	82p
R3731	*	560	C3732	*	15p
R3732	*	560	C3733	*	0.01
R3733	*	2.2k	C3734	*	0.01

y30106001a\_rev1

1

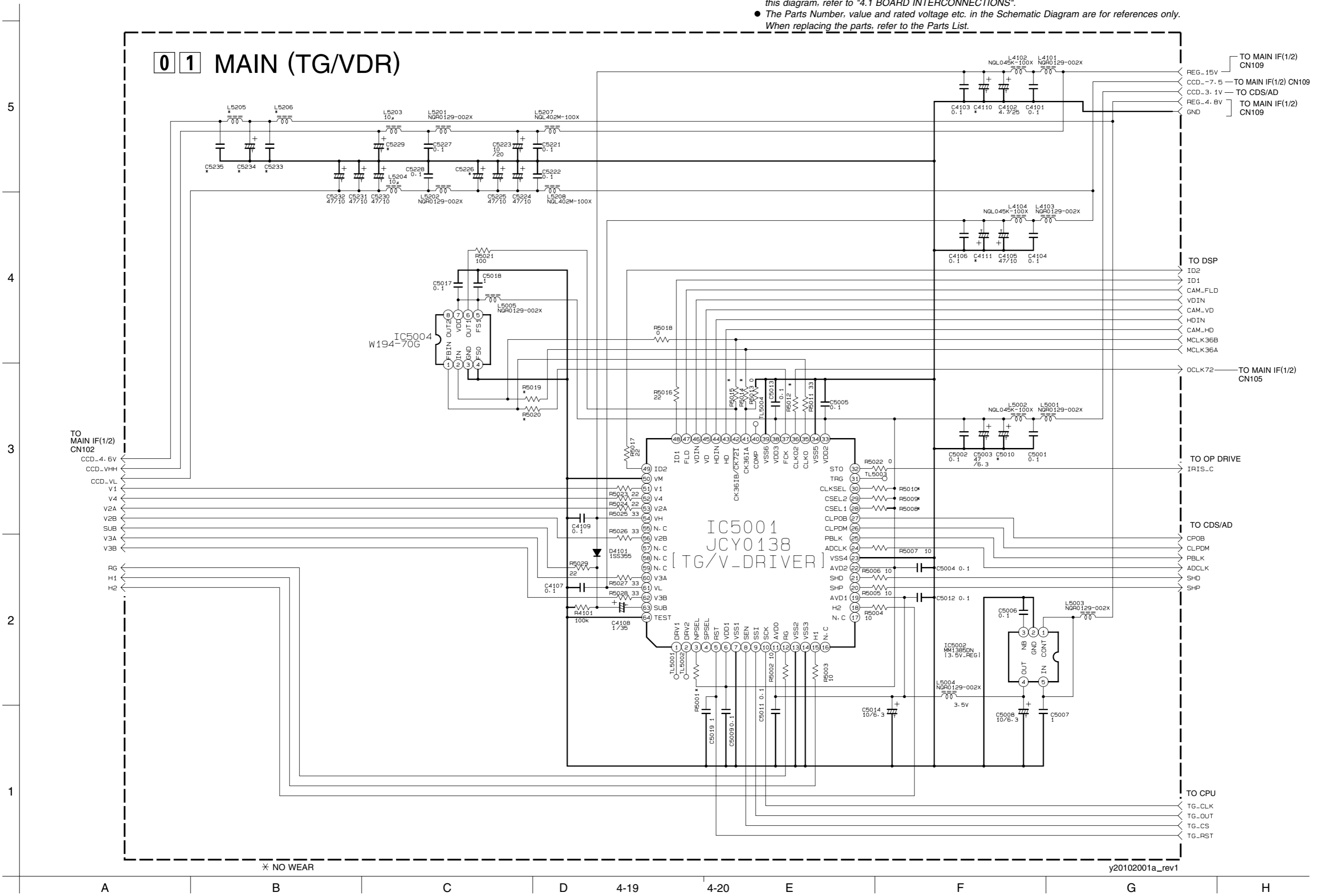
4.8 ANA IN SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to 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".  
● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



0 1 MAIN (TG/VDR)

TO MAIN IF(1/2) CN109  
REG\_-15V  
CCD\_-7.5 TO MAIN IF(1/2) CN109  
CCD\_-3.1V TO CDS/AD  
REG\_-4.8V TO MAIN IF(1/2) CN109  
GND

TO DSP  
ID2  
ID1  
CAM\_FLD  
VDIN  
CAM\_VD  
HDIN  
CAM\_HD  
MCLK36B  
MCLK36A

OCLK72 TO MAIN IF(1/2) CN105

TO OP DRIVE  
IRIS\_C

TO CDS/AD  
CPOB  
CLPDM  
PBLK  
ADCLK  
SHD  
SHP

TO CPU  
TG\_CLK  
TG\_OUT  
TG\_CS  
TG\_RST

\* NO WEAR

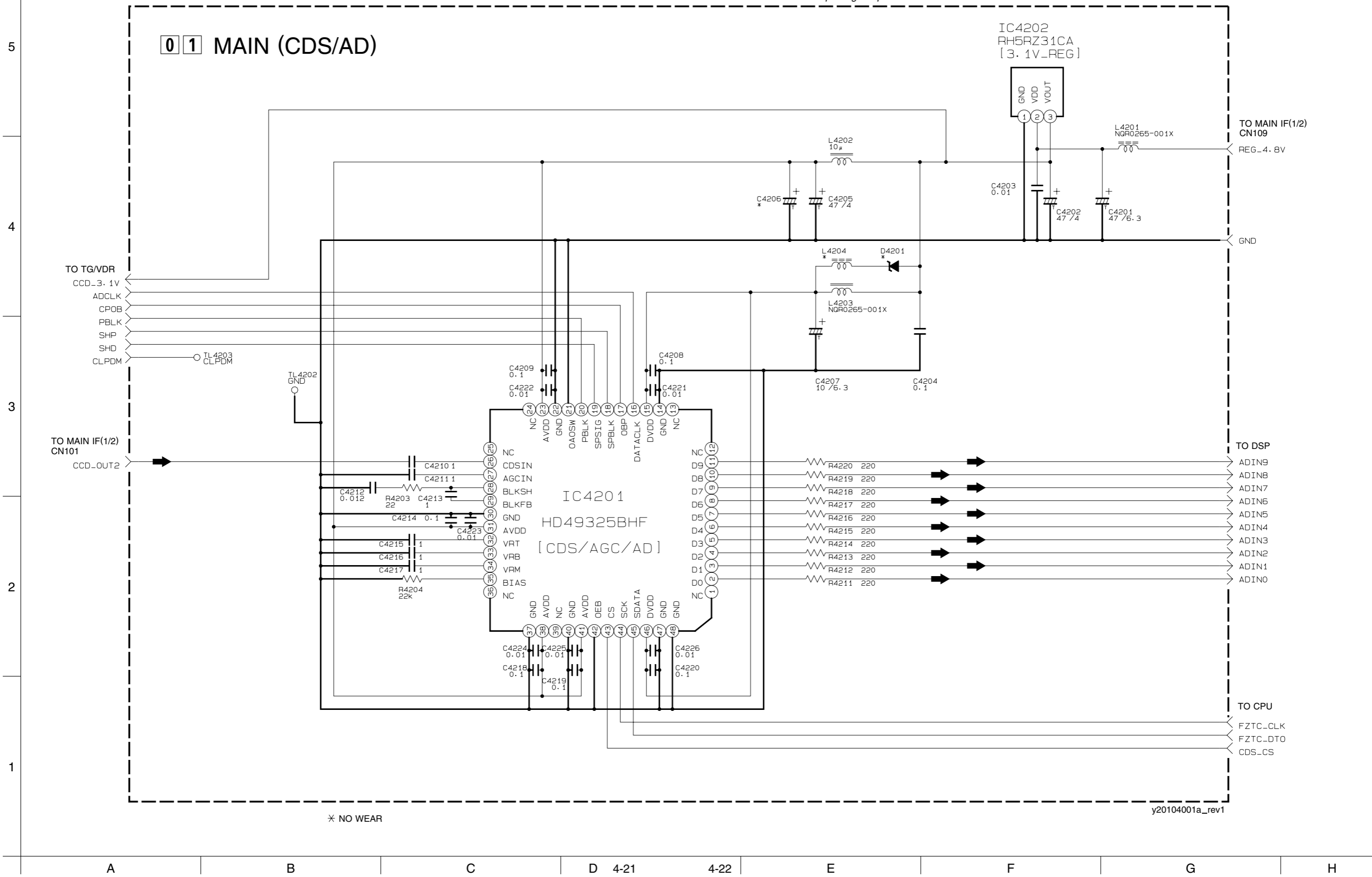
y20102001a\_rev1

A B C D 4-19 4-20 E F G H

5  
4  
3  
2  
1

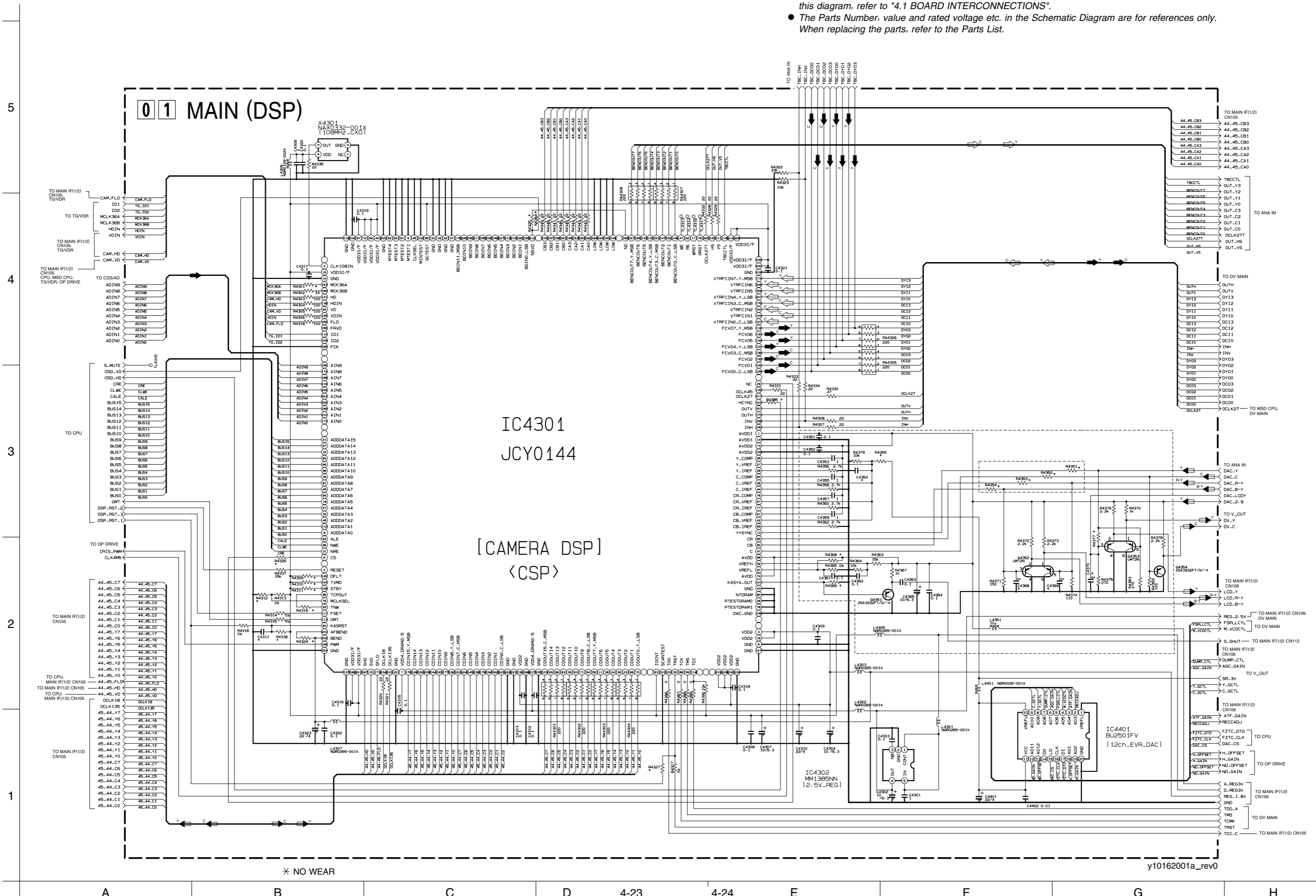
4.10 CDS/AD SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



# 4.11 DSP SCHEMATIC DIAGRAM

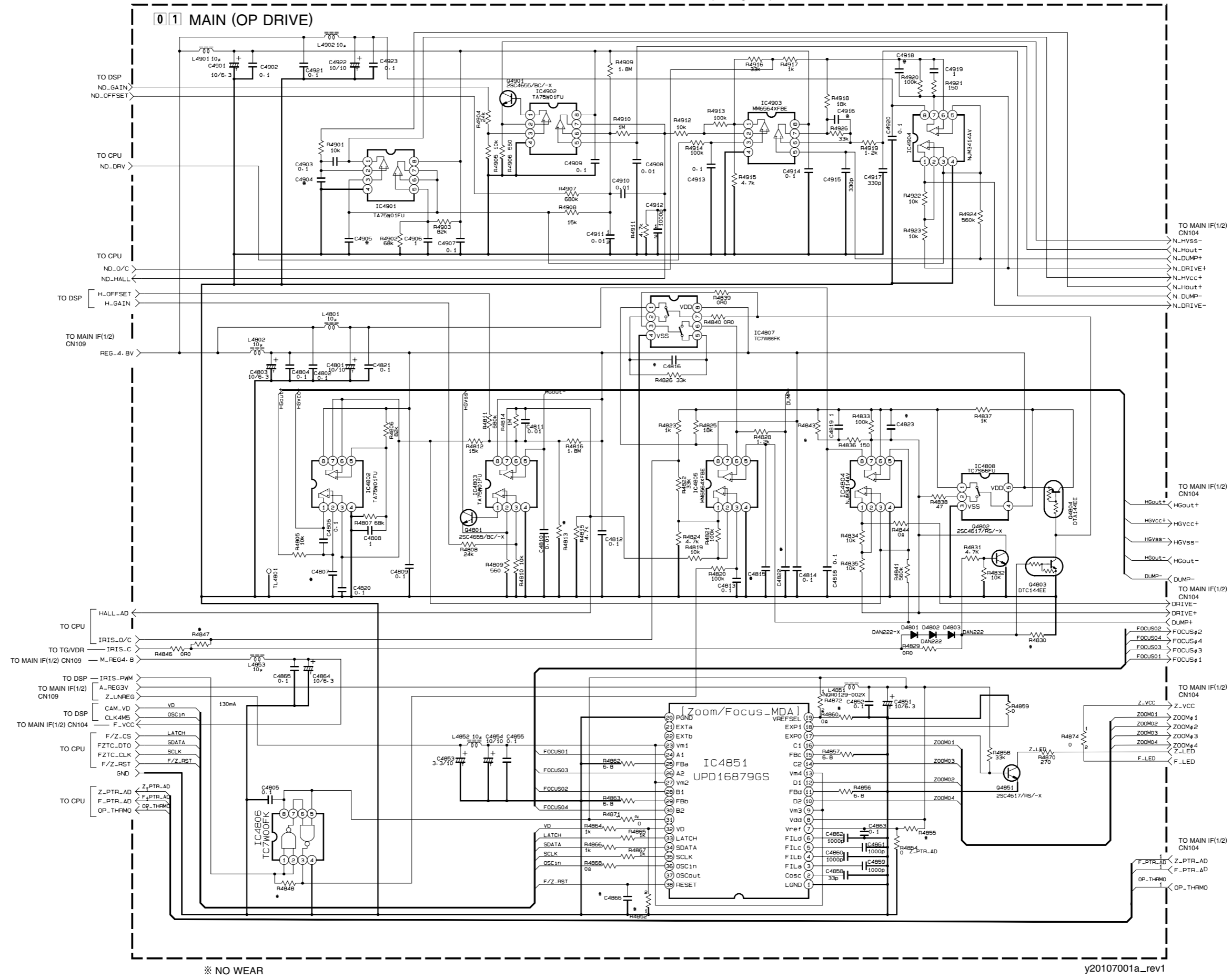
- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



y10162001a\_rev0

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".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

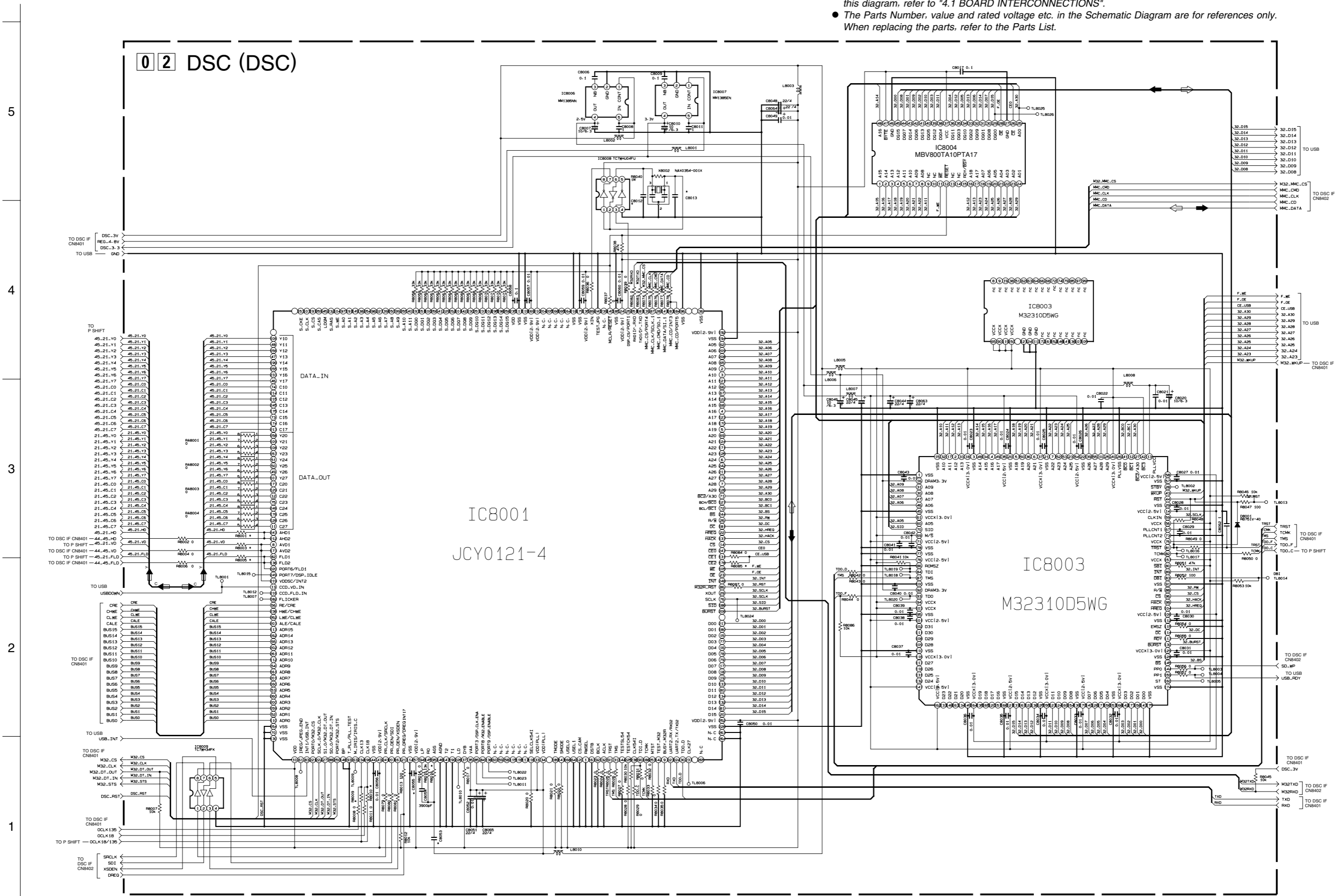


※ NO WEAR

y20107001a\_rev1

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".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

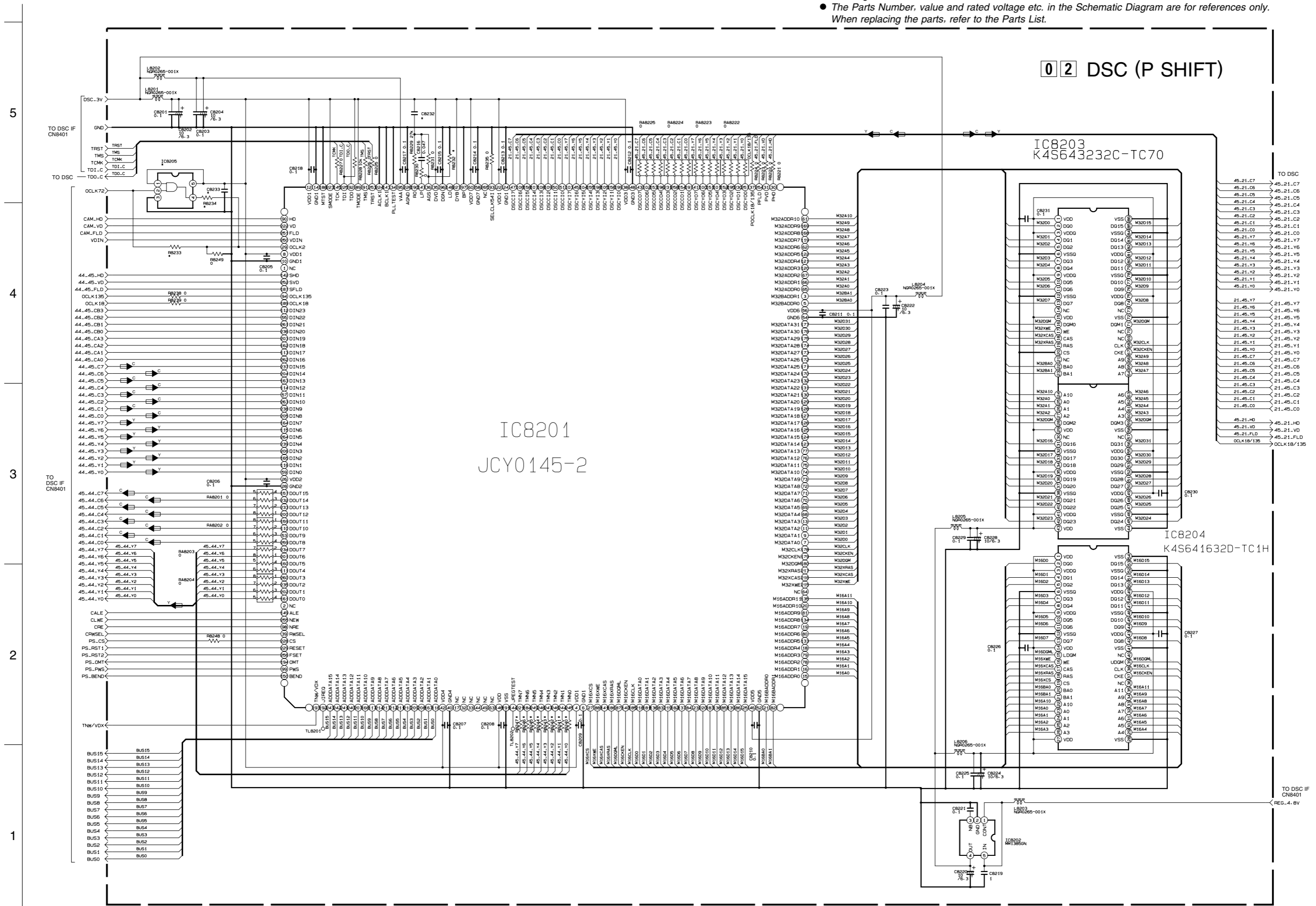


\* NO WEAR

y10163001a\_rev0

4.14 P SHIFT SCHEMATIC DIAGRAM

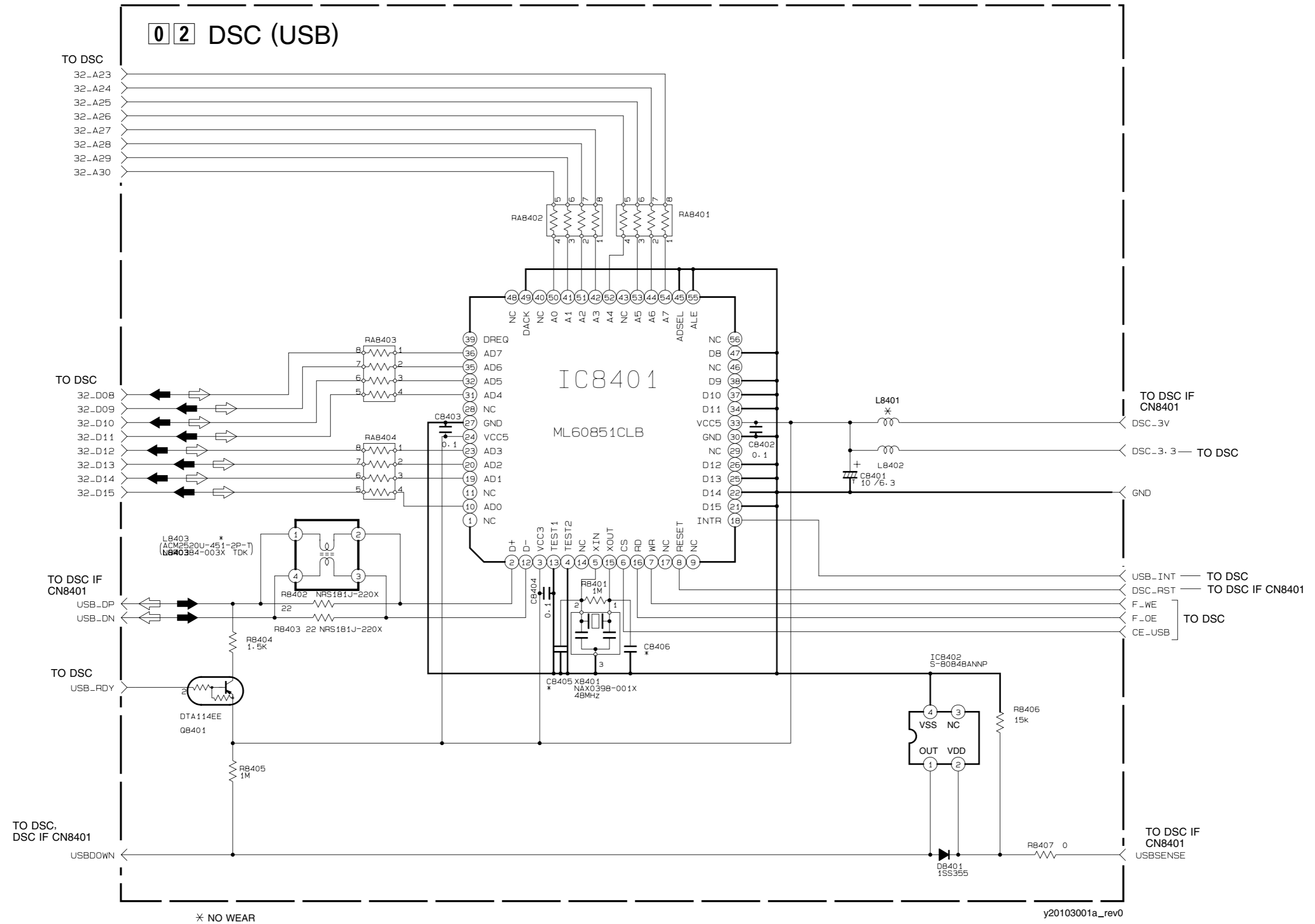
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.





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".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



A

B

C

D

4-31

4-32

E

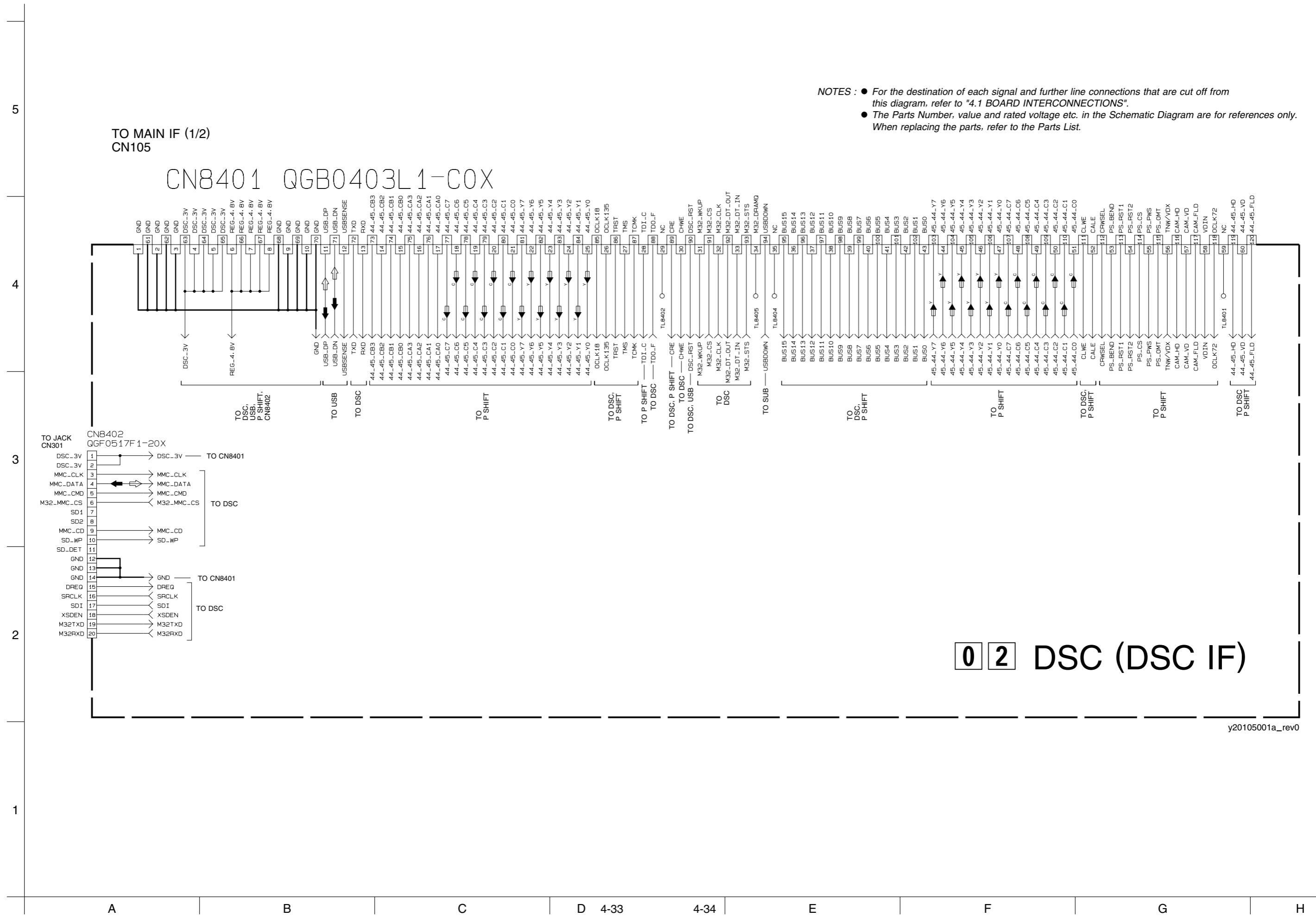
F

G

H

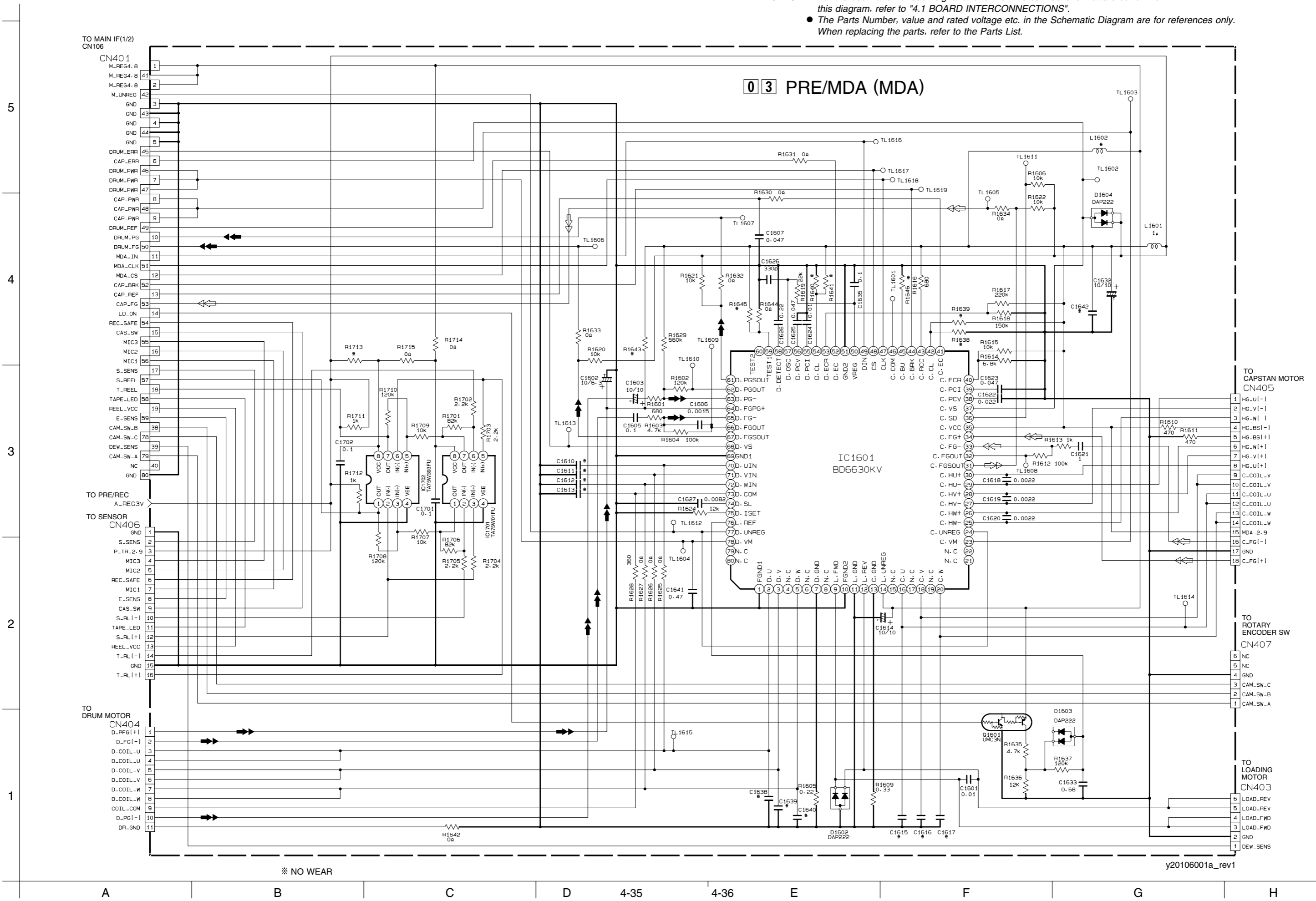
4.16 DSC IF SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



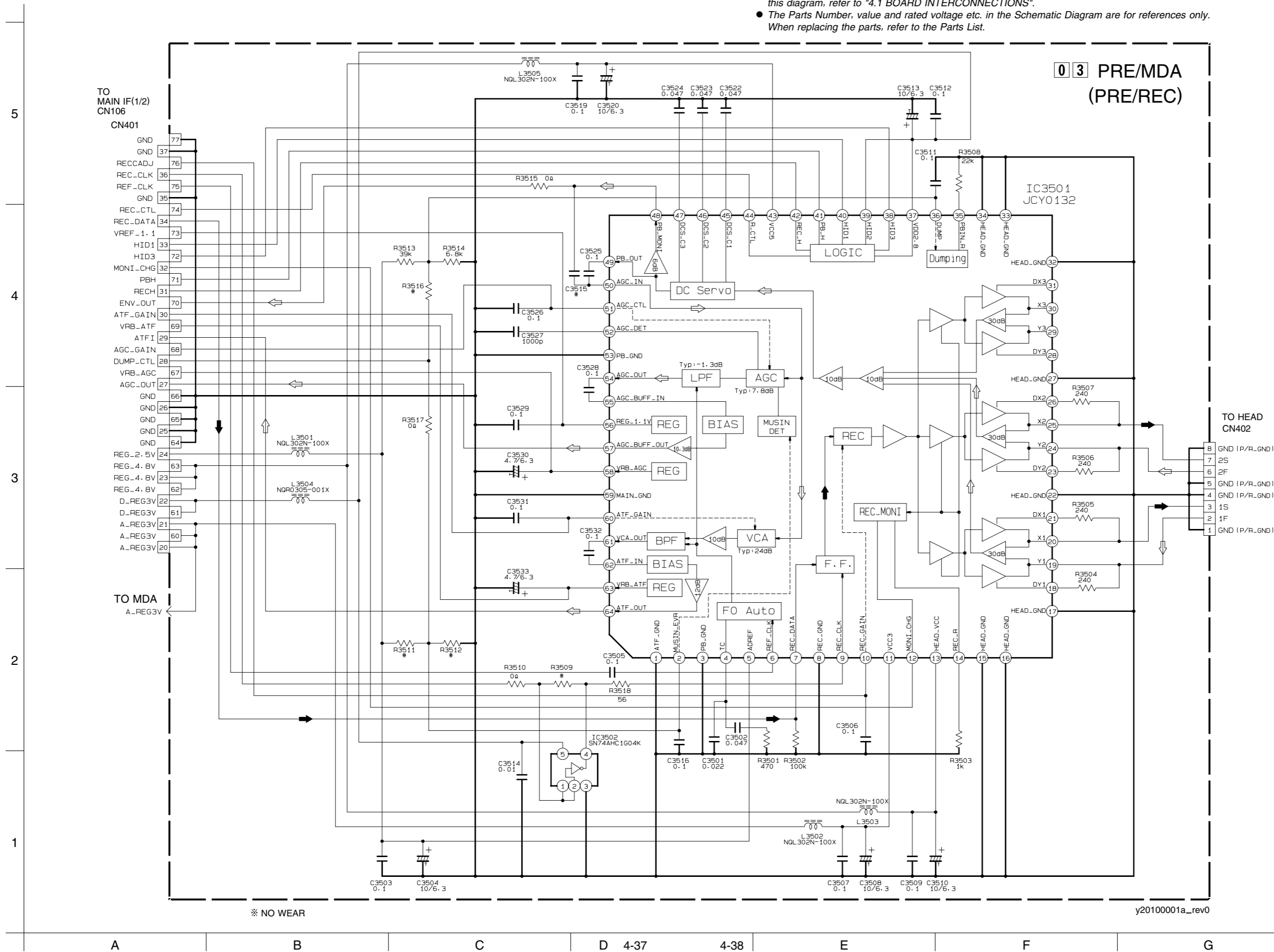
4.17 MDA SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



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".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



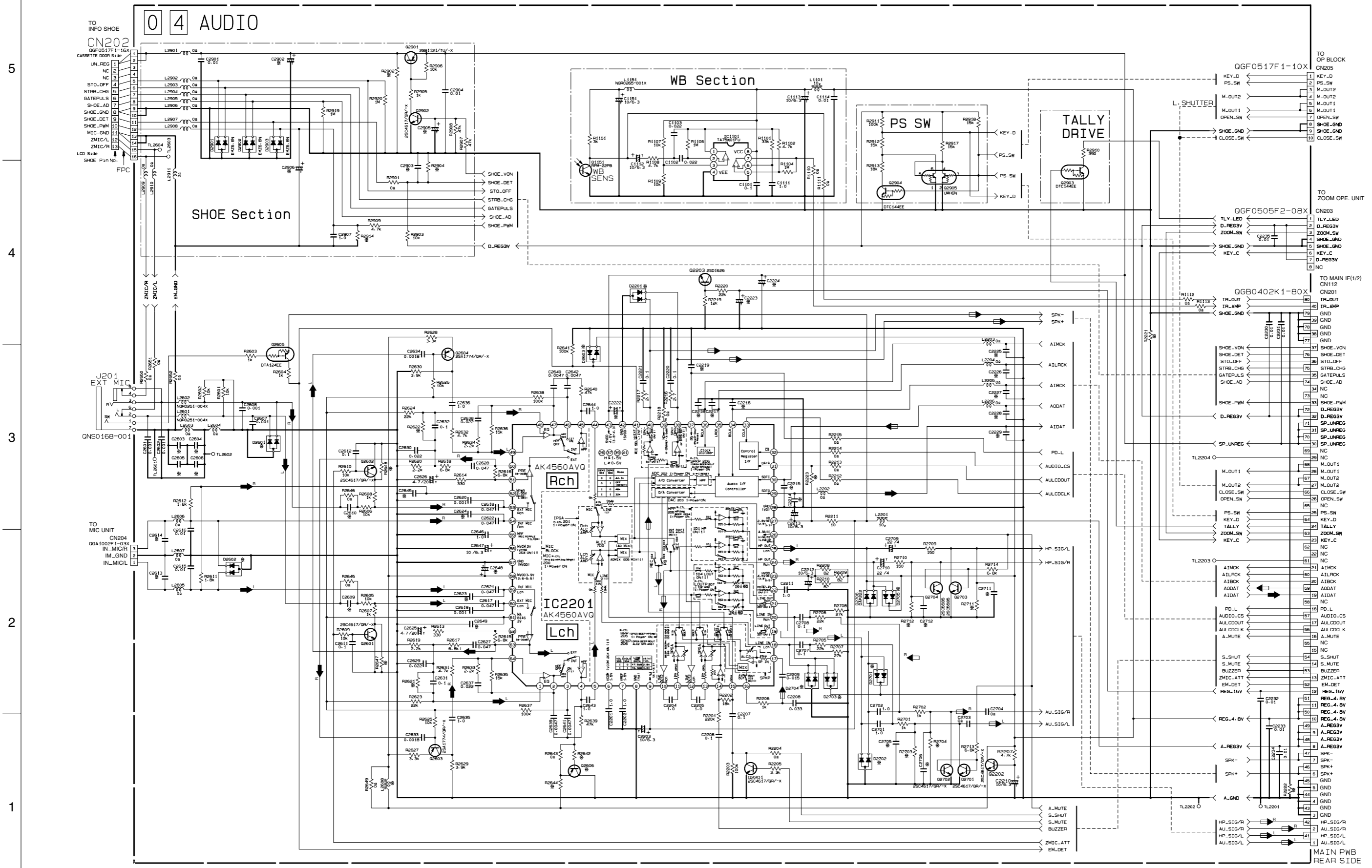
03 PRE/MDA (PRE/REC)

※ NO WEAR

y20100001a\_rev0

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".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

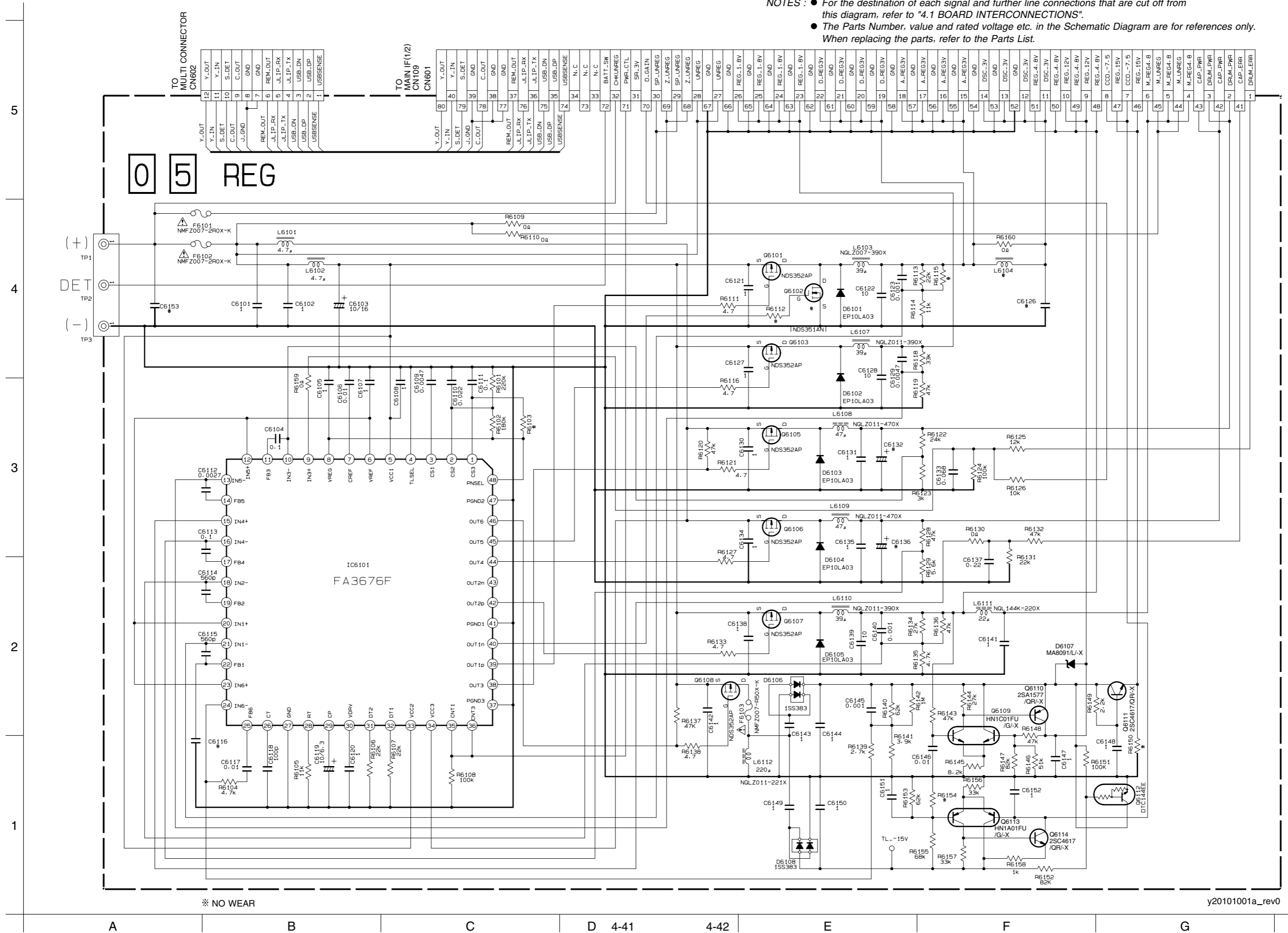


\* NO WEAR

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".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

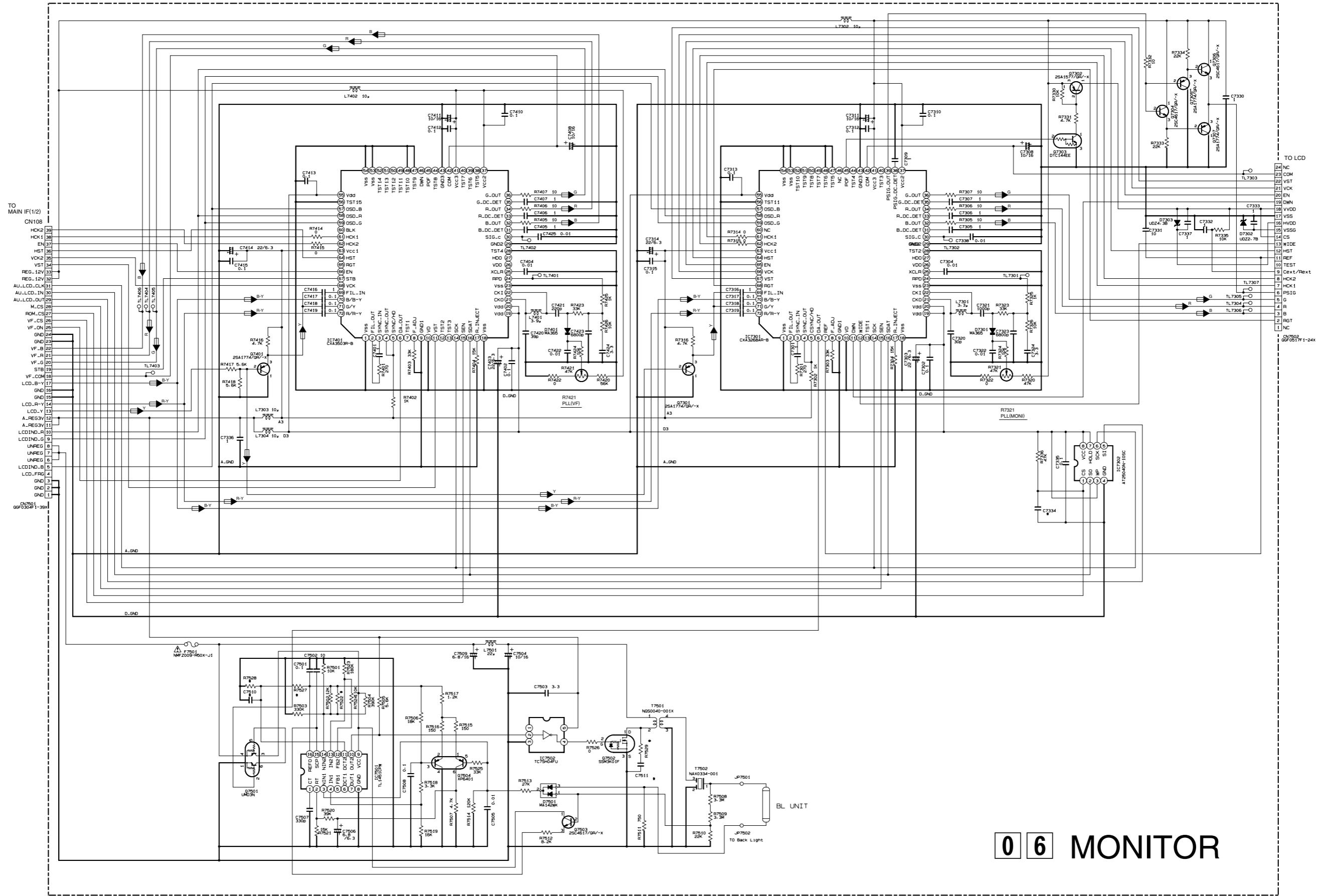


※ NO WEAR

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".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



06 MONITOR

※ NO WEAR

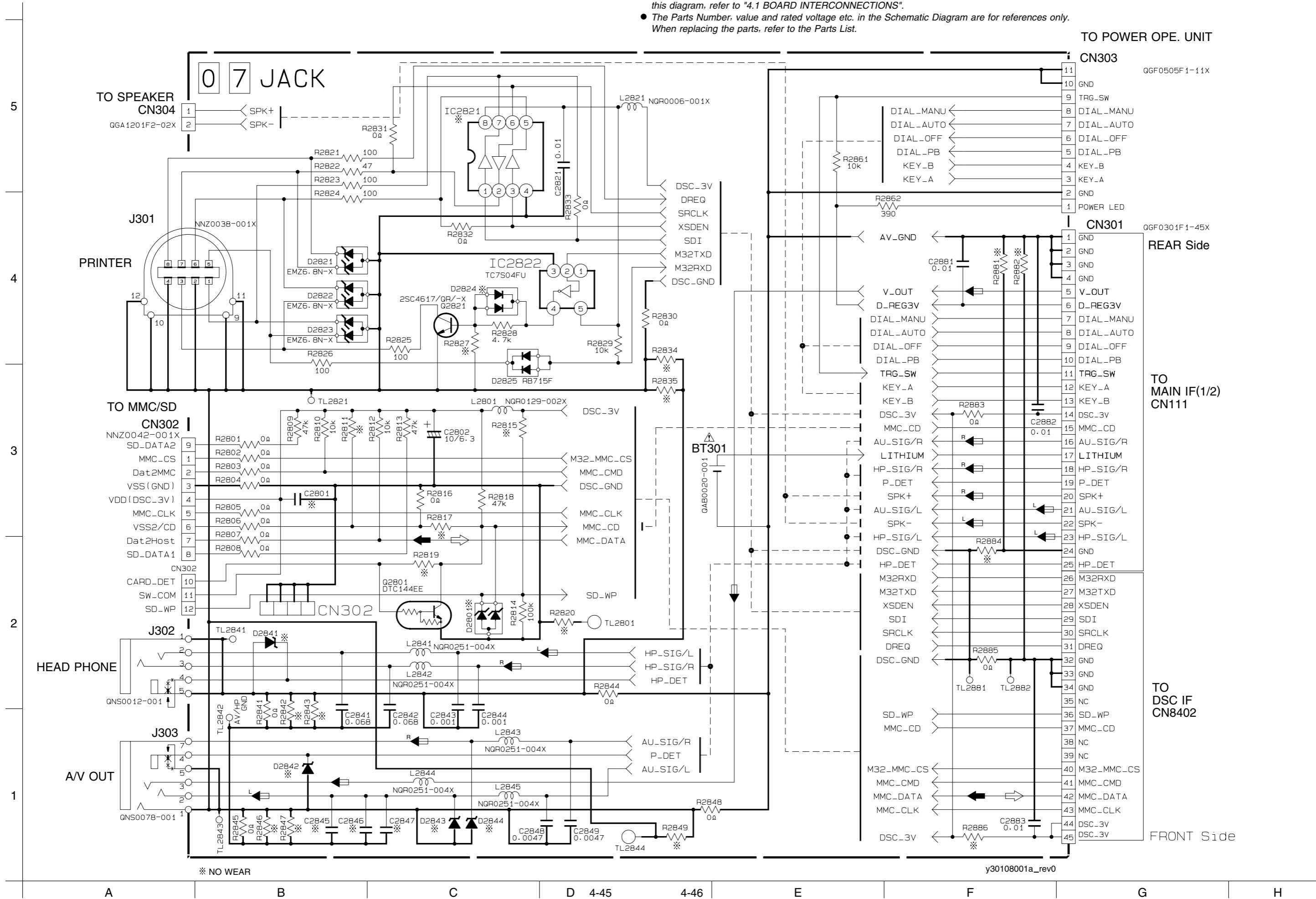
y10165001a\_rev0

A B C D 4-43 4-44 E F G H

5  
4  
3  
2  
1

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".  
 ● The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



\* NO WEAR

y30108001a\_rev0

A B C D 4-45 4-46 E F G H

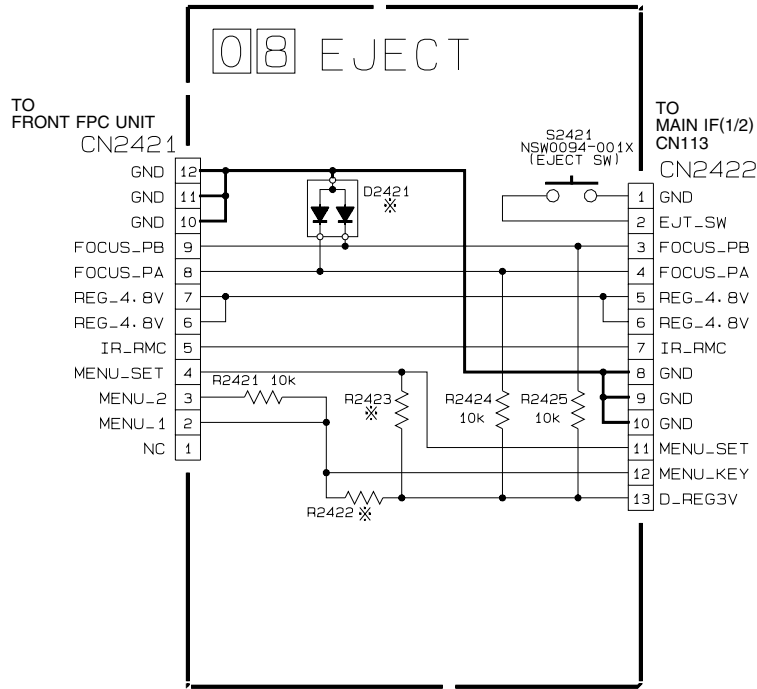


## 4.23 EJECT AND DECK OPE. SCHEMATIC DIAGRAMS

- NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
  - The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

5

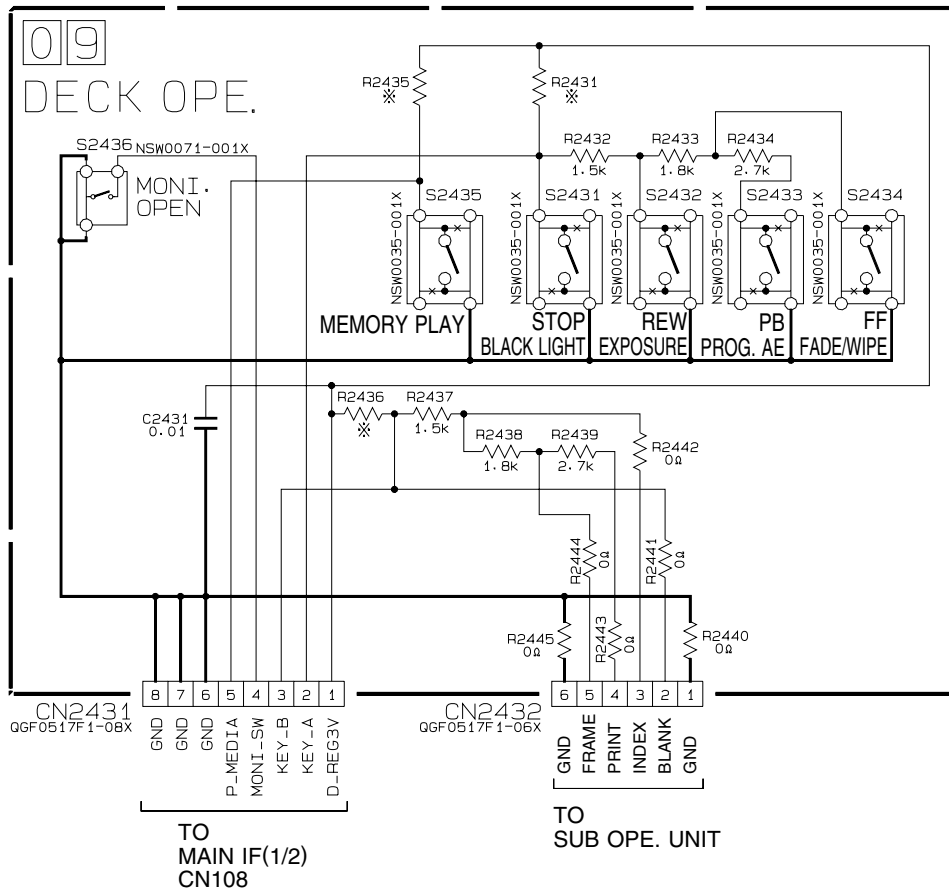
4



3

2

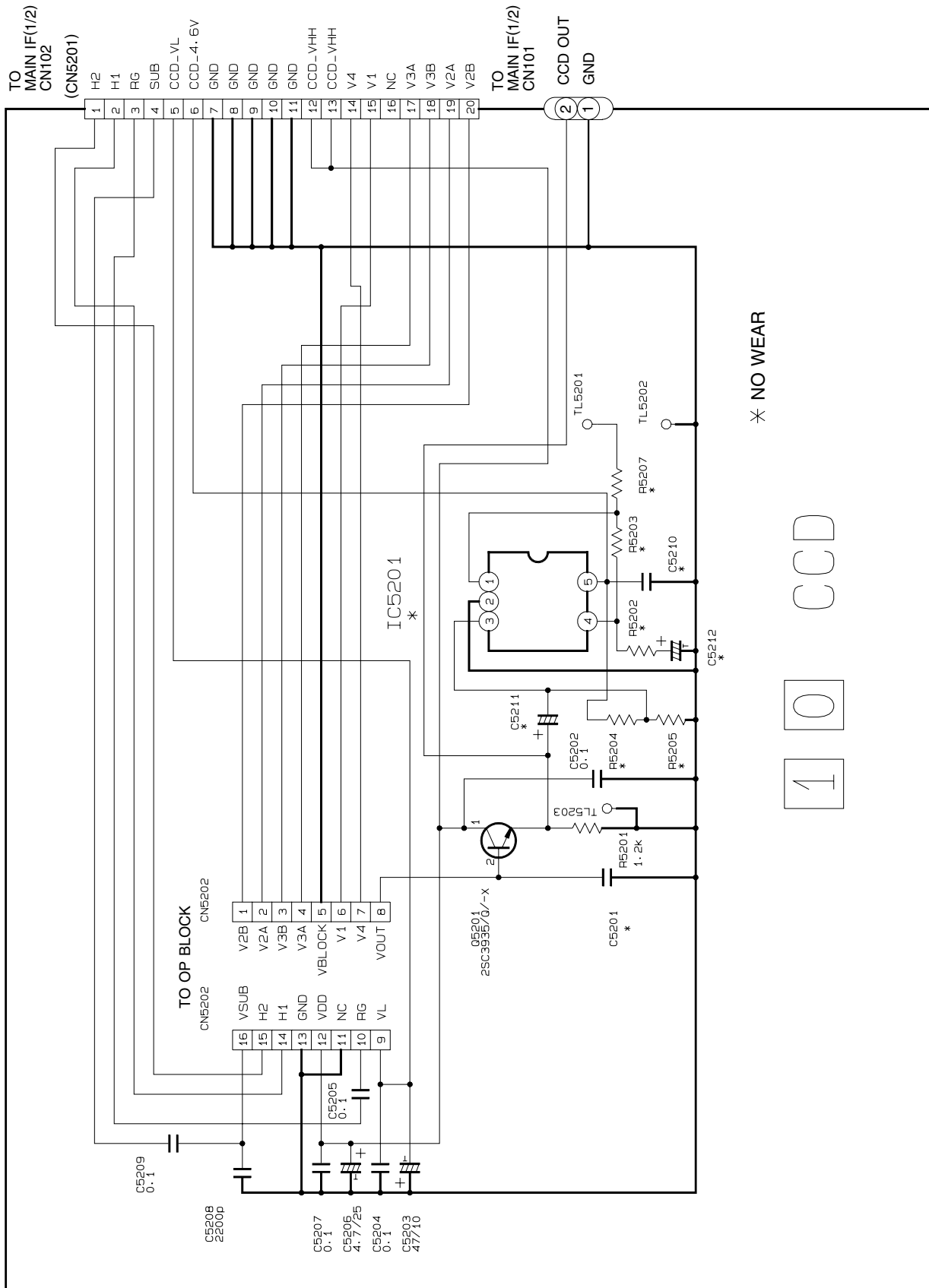
1



y20108001a\_rev0

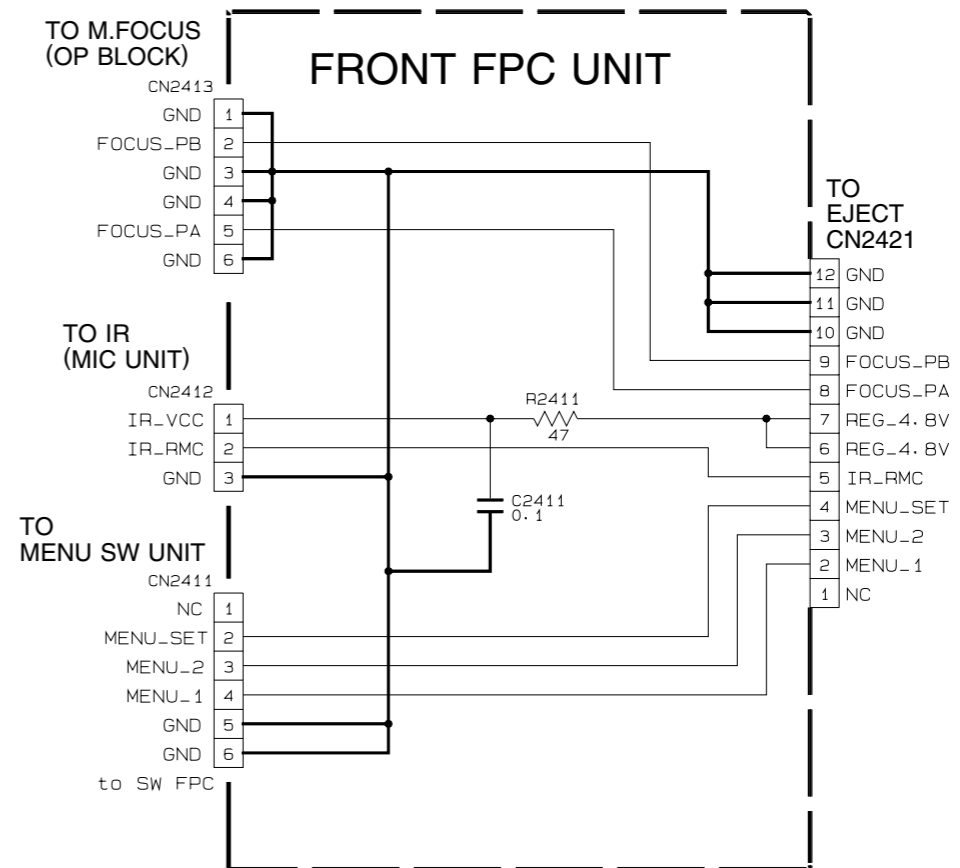
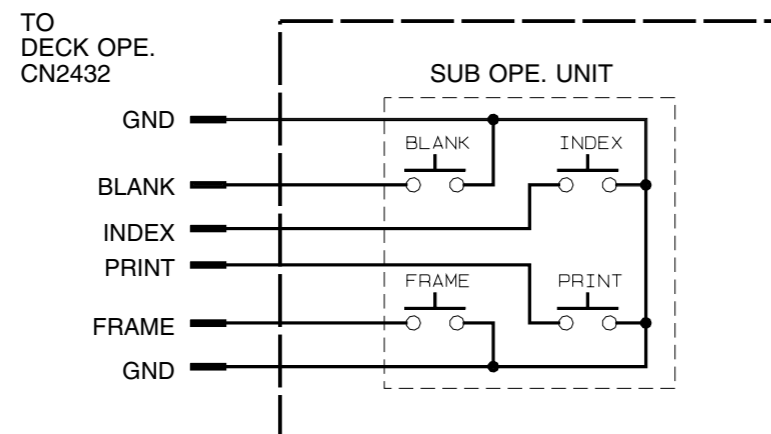
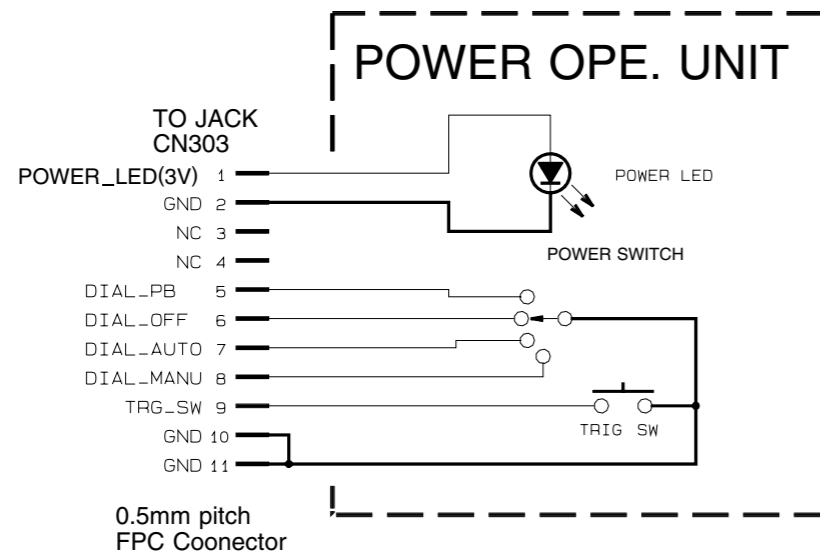
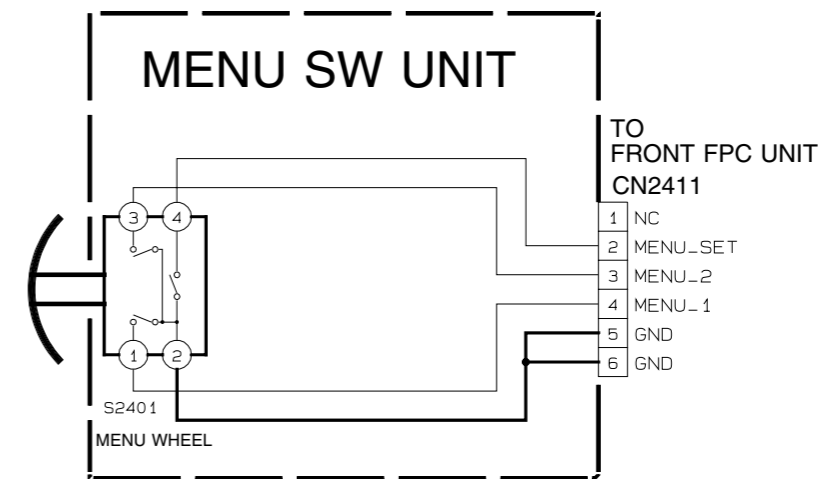
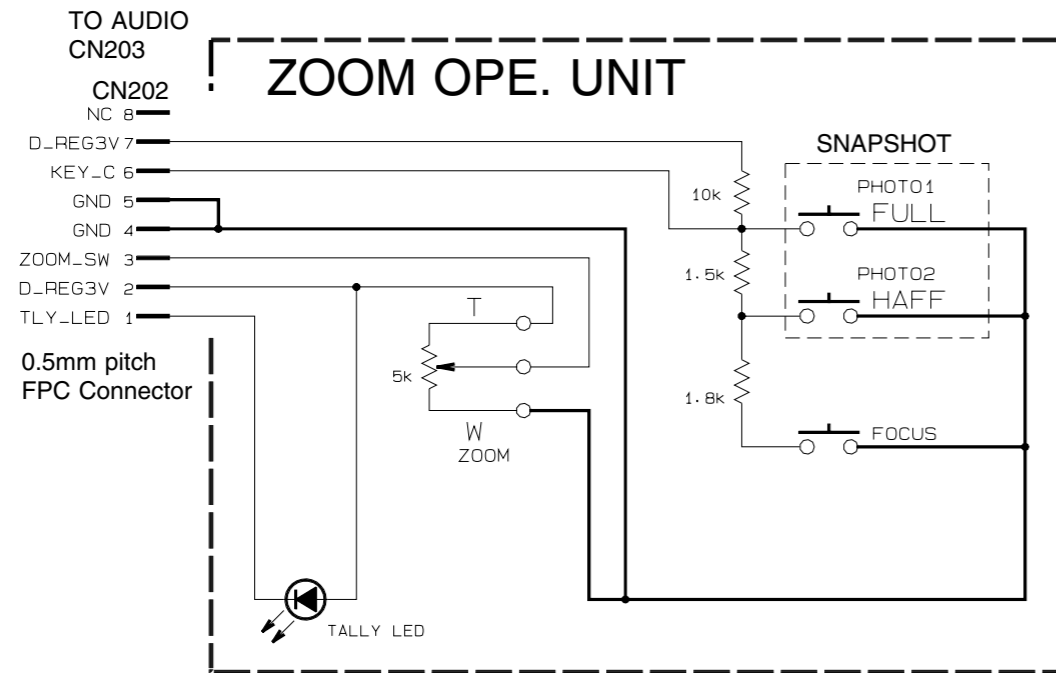
## 4.24 CCD SCHEMATIC DIAGRAM

- NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
  - The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



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.



5

4

3

2

1

A

B

C

D

4-49

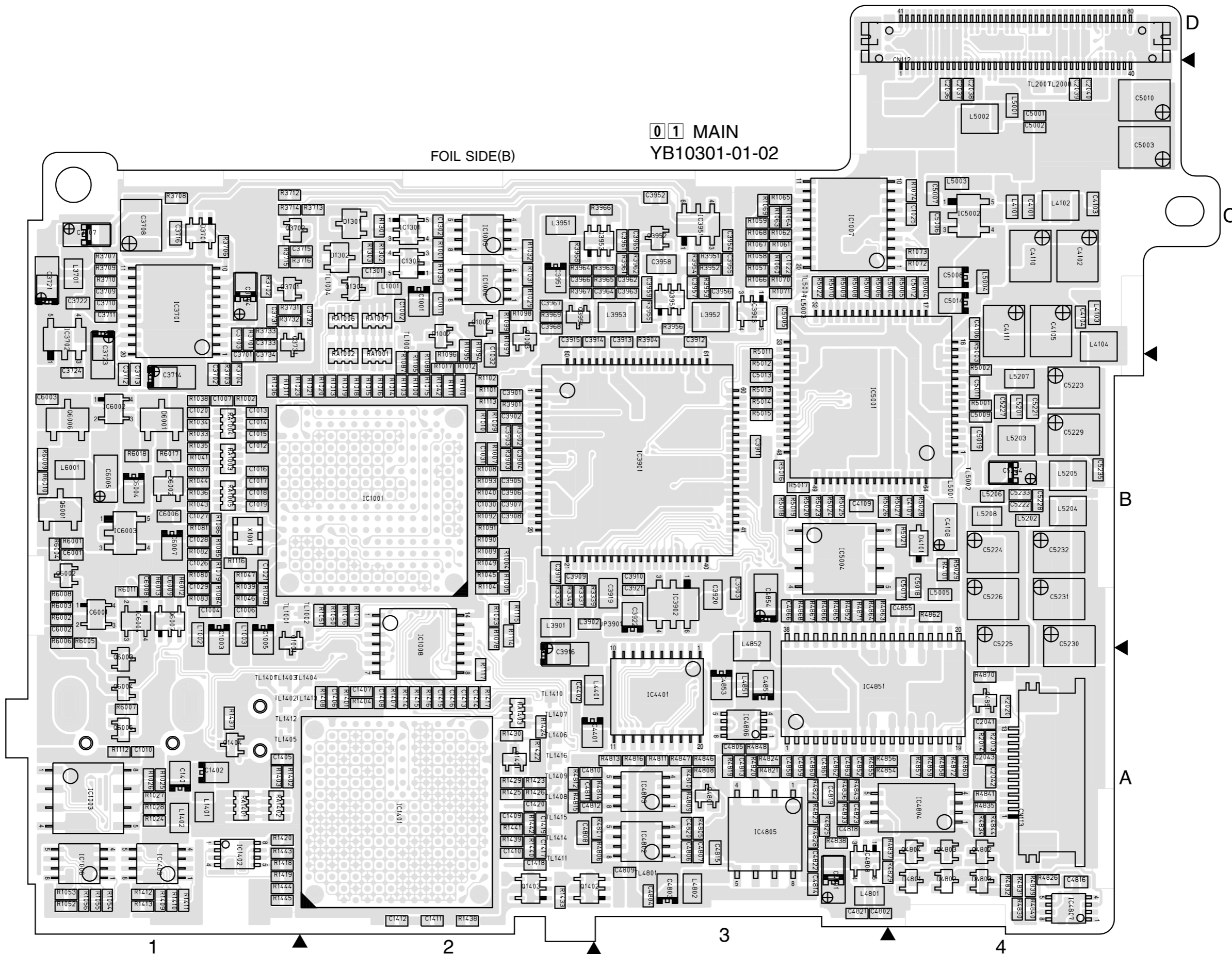
4-50

E

F

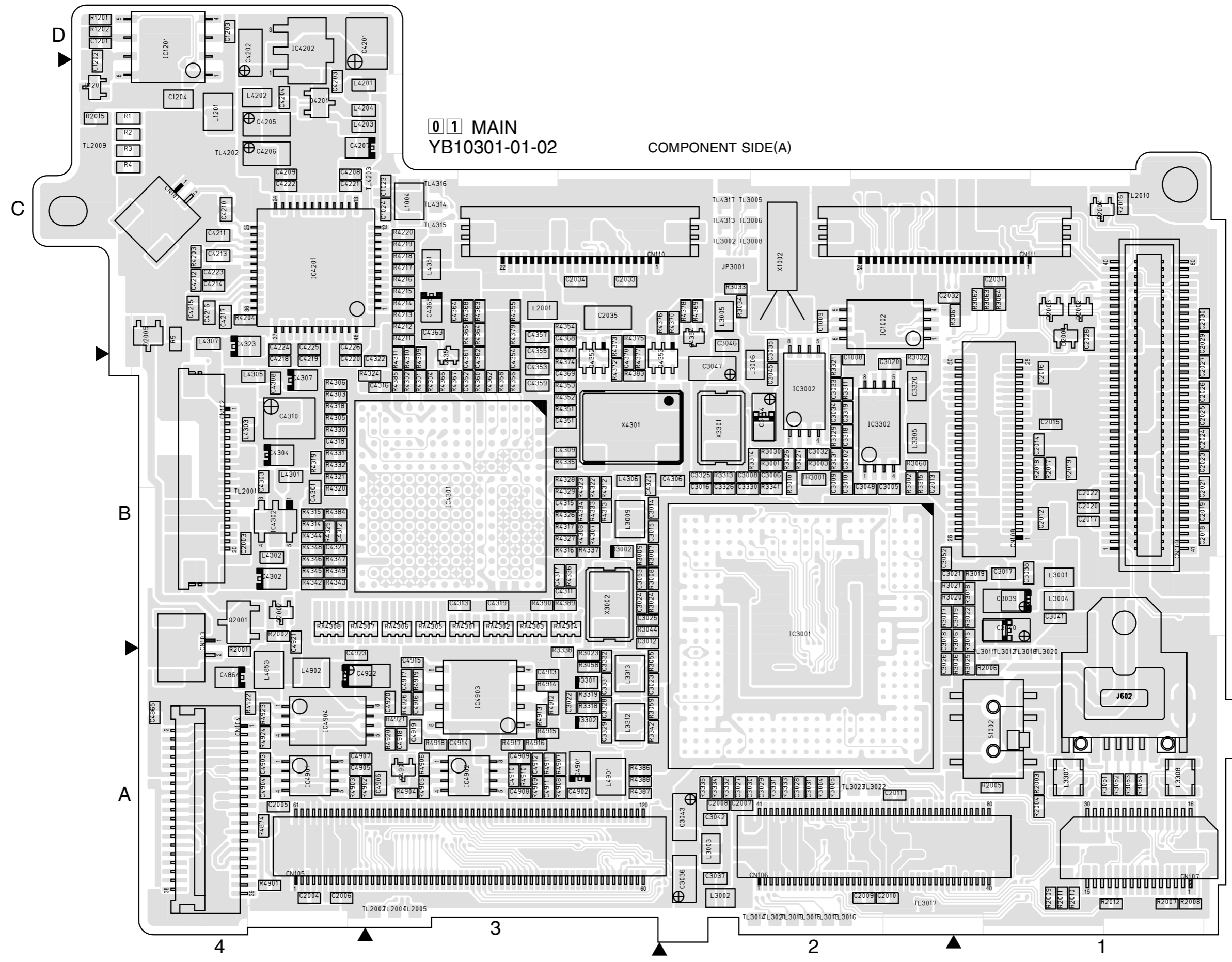
G

H









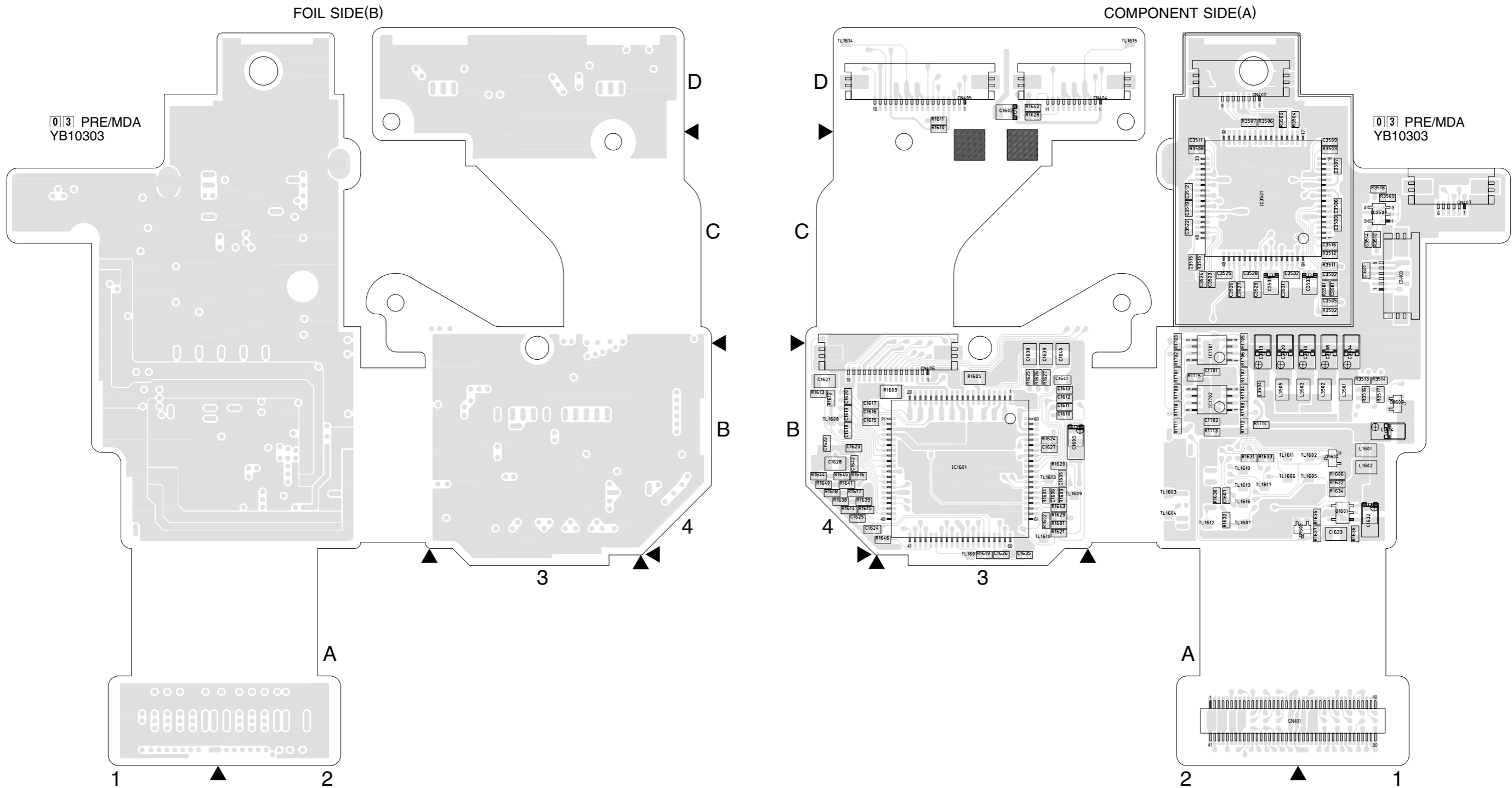
0 1 MAIN  
YB10301-01-02

COMPONENT SIDE(A)





4.28 PRE/MDA CIRCUIT BOARD

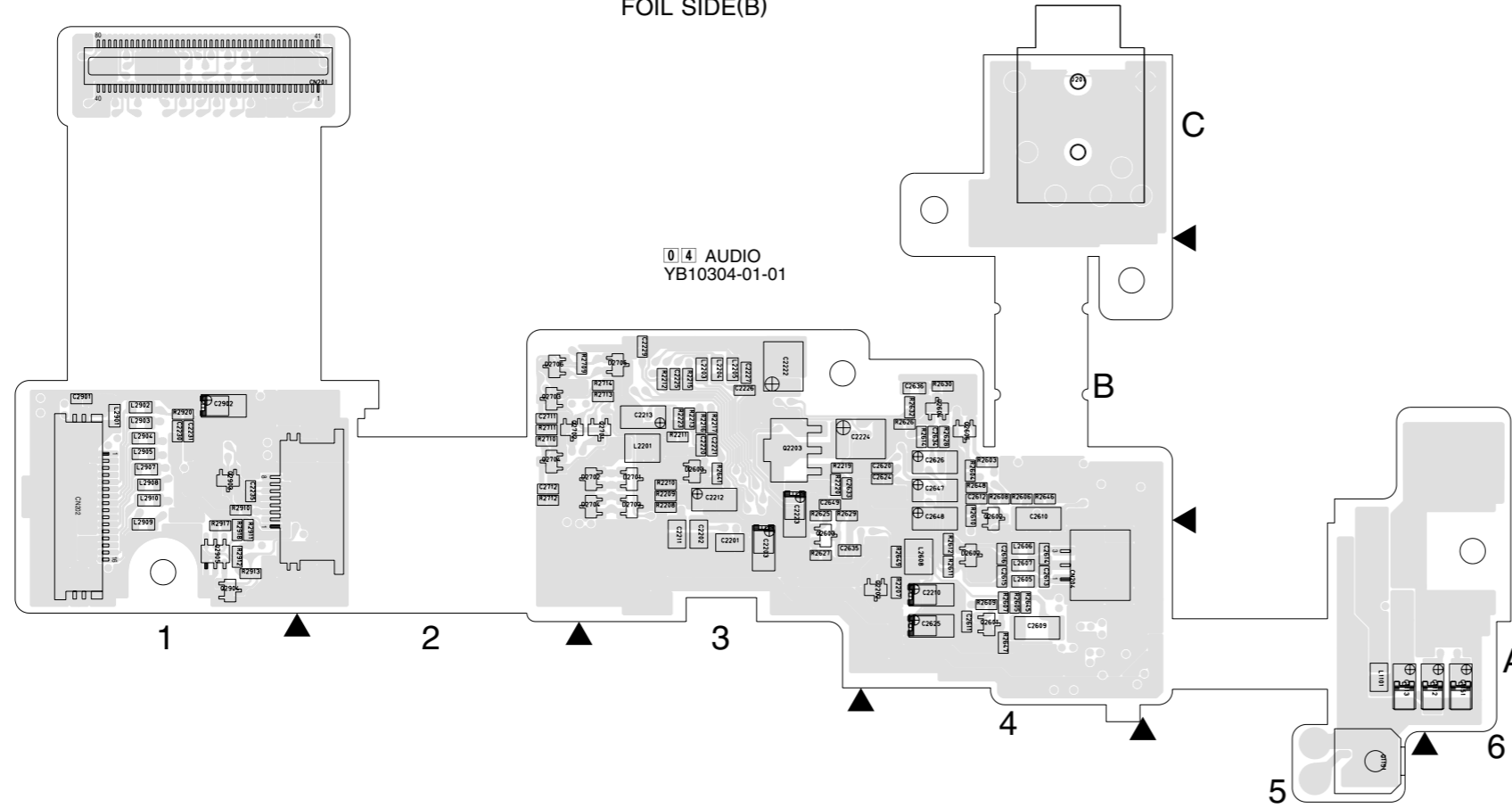


COMPONENT PARTS LOCATION GUIDE <PRE/MDA>

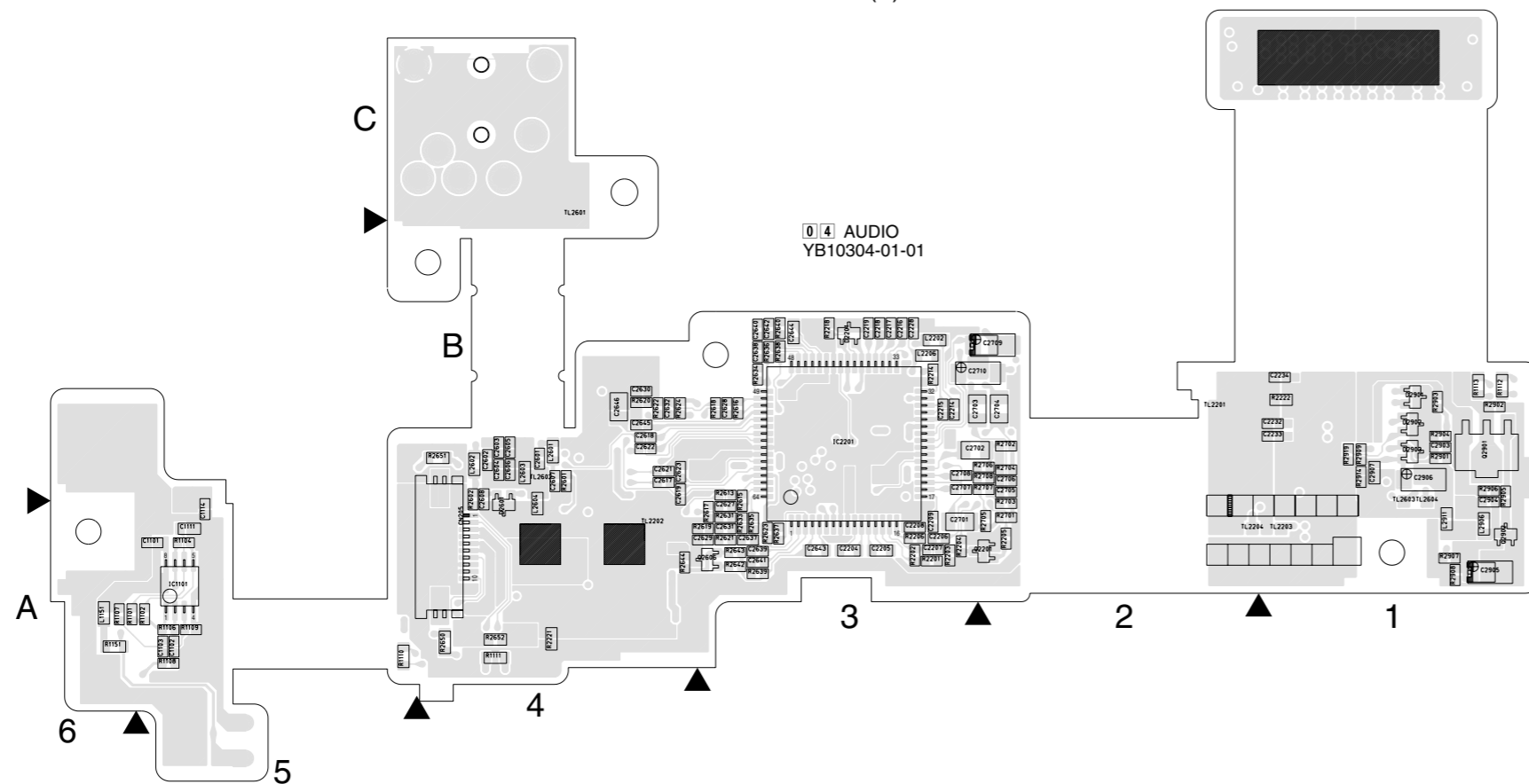
REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	
<b>CAPACITOR</b>																				
C1601	A C 1C	C1621	A C 4B	C3501	A C 1C	C3522	A C 2C	CN406	A C 3B	L3503	A C 1B	R1614	A C 4B	R1633	A C 2B	R1705	A C 2C	R3508	A C 2C	
C1602	A C 3D	C1622	A C 4B	C3502	A C 1C	C3523	A C 2C	CN407	A C 1C	L3504	A C 2B	R1615	A C 4B	R1634	A C 1B	R1706	A C 2B	R3509	A C 1C	
C1603	A C 3B	C1623	A C 4B	C3503	A C 1C	C3524	A C 2C	<b>DIODE</b>				L3505	A C 2B	R1616	A C 4B	R1635	A C 2B	R3510	A C 1C	
C1604	A C 3B	C1624	A C 4B	C3504	A C 1B	C3525	A C 2C	D1602	A C 1B	<b>TRANSISTOR</b>				R1617	A C 4B	R1636	A C 2B	R3511	A C 1C	
C1605	A C 3B	C1625	A C 4B	C3505	A C 1C	C3526	A C 2C	D1603	A C 1B	Q1601	A C 1B	R1618	A C 4B	R1637	A C 1B	R1707	A C 2B	R3512	A C 1C	
C1606	A C 3B	C1626	A C 3A	C3506	A C 1C	C3527	A C 2C	D1604	A C 1B	<b>RESISTOR</b>				R1619	A C 3A	R1638	A C 4B	R1708	A C 2B	
C1607	A C 2B	C1627	A C 3B	C3507	A C 1C	C3528	A C 2C	<b>IC</b>				R1620	A C 3B	R1639	A C 4B	R1709	A C 2B	R3513	A C 1B	
C1608	A C 2B	C1628	A C 4B	C3508	A C 1C	C3529	A C 2C	IC1601	A C 3B	R1601	A C 3B	R1640	A C 4B	R1640	A C 4B	R1710	A C 2B	R3514	A C 1B	
C1609	A C 3B	C1629	A C 4B	C3509	A C 1C	C3530	A C 2C	IC1701	A C 2B	R1602	A C 3B	R1641	A C 4B	R1641	A C 4B	R1711	A C 2B	R3515	A C 2C	
C1610	A C 3B	C1630	A C 1B	C3510	A C 1C	C3531	A C 2C	IC1702	A C 2B	R1603	A C 3B	R1642	A C 4B	R1642	A C 4B	R1712	A C 2B	R3516	A C 1B	
C1611	A C 3B	C1631	A C 3A	C3511	A C 2C	C3532	A C 2C	IC3501	A C 2C	R1604	A C 3B	R1643	A C 3B	R1643	A C 3B	R1713	A C 2B	R3517	A C 1B	
C1612	A C 3B	C1632	A C 3B	C3512	A C 2C	C3533	A C 1C	IC3502	A C 1C	R1605	A C 3B	R1644	A C 4B	R1644	A C 4B	R1714	A C 2B	R3518	A C 1C	
C1613	A C 3B	C1633	A C 3B	C3513	A C 2B	<b>CONNECTOR</b>				R1606	A C 3B	R1645	A C 4B	R1645	A C 4B	R1715	A C 2B	<b>OTHER</b>		
C1614	A C 1B	C1634	A C 3B	C3514	A C 2C	CN401	A C 2A	L1601	A C 1B	R1607	A C 3B	R1646	A C 4B	R1646	A C 4B	R1716	A C 2B	PC04	A C 1D	
C1615	A C 4B	C1635	A C 3B	C3515	A C 2C	CN402	A C 2D	L1602	A C 1B	R1608	A C 3B	R1647	A C 4B	R1647	A C 4B	R1717	A C 2B	PC05	A C 1D	
C1616	A C 4B	C1636	A C 3B	C3516	A C 2C	CN403	A C 1C	L3501	A C 1B	R1609	A C 3B	R1648	A C 4B	R1648	A C 4B	R1718	A C 2B	TL1601	A C 3A	
C1617	A C 4B	C1637	A C 3B	C3517	A C 2C	CN404	A C 2D	L3502	A C 1B	R1610	A C 3D	R1649	A C 4B	R1649	A C 4B	R1719	A C 2B	TL1602	A C 1B	
C1618	A C 4B	C1638	A C 3B	C3518	A C 2C	CN405	A C 3D	L3503	A C 1B	R1611	A C 3D	R1650	A C 4B	R1650	A C 4B	R1720	A C 2B	TL1603	A C 2B	
C1619	A C 4B	C1639	A C 3B	C3519	A C 2C					L3504	A C 1B	R1612	A C 4B	R1651	A C 4B	R1701	A C 2C	TL1604	A C 2B	
C1620	A C 4B	C1640	A C 3B	C3520	A C 2B					L3505	A C 1B	R1613	A C 4B	R1652	A C 4B	R1702	A C 2B			

4.29 AUDIO CIRCUIT BOARD

FOIL SIDE(B)



COMPONENT SIDE(A)



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	A 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	A 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	A A	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	A 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	B B		
C2620	B C	L2905	B C	R2253	A B		
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 C		
C2628	A C	Q1151	A D	R2261	A C		
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 C		
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

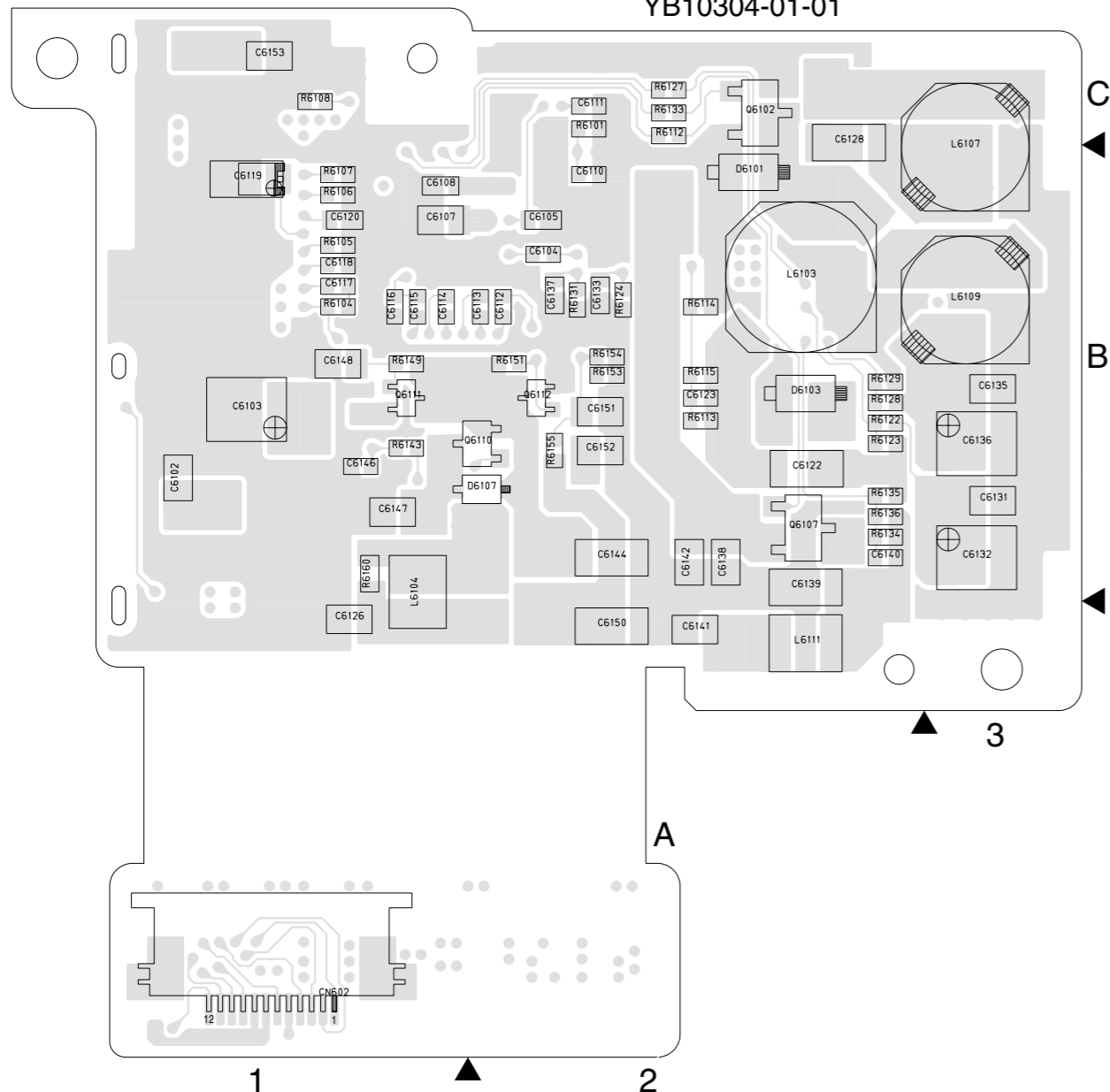


• CAUTION:  
FOR CONTINUED PROTECTION AGAINST  
FIRE HAZARD, REPLACE ONLY WITH SAME  
TYPE AND RATED FUSE(S).

• ATTENTION:  
POUR UNE PROTECTION PERMANENTE  
CONTRE LES RISQUE D'INCENDE,  
REMPLACER LES FUSIBLES PAR UN AUTRE  
DE MEME TYPE ET DE MEME TENSION.

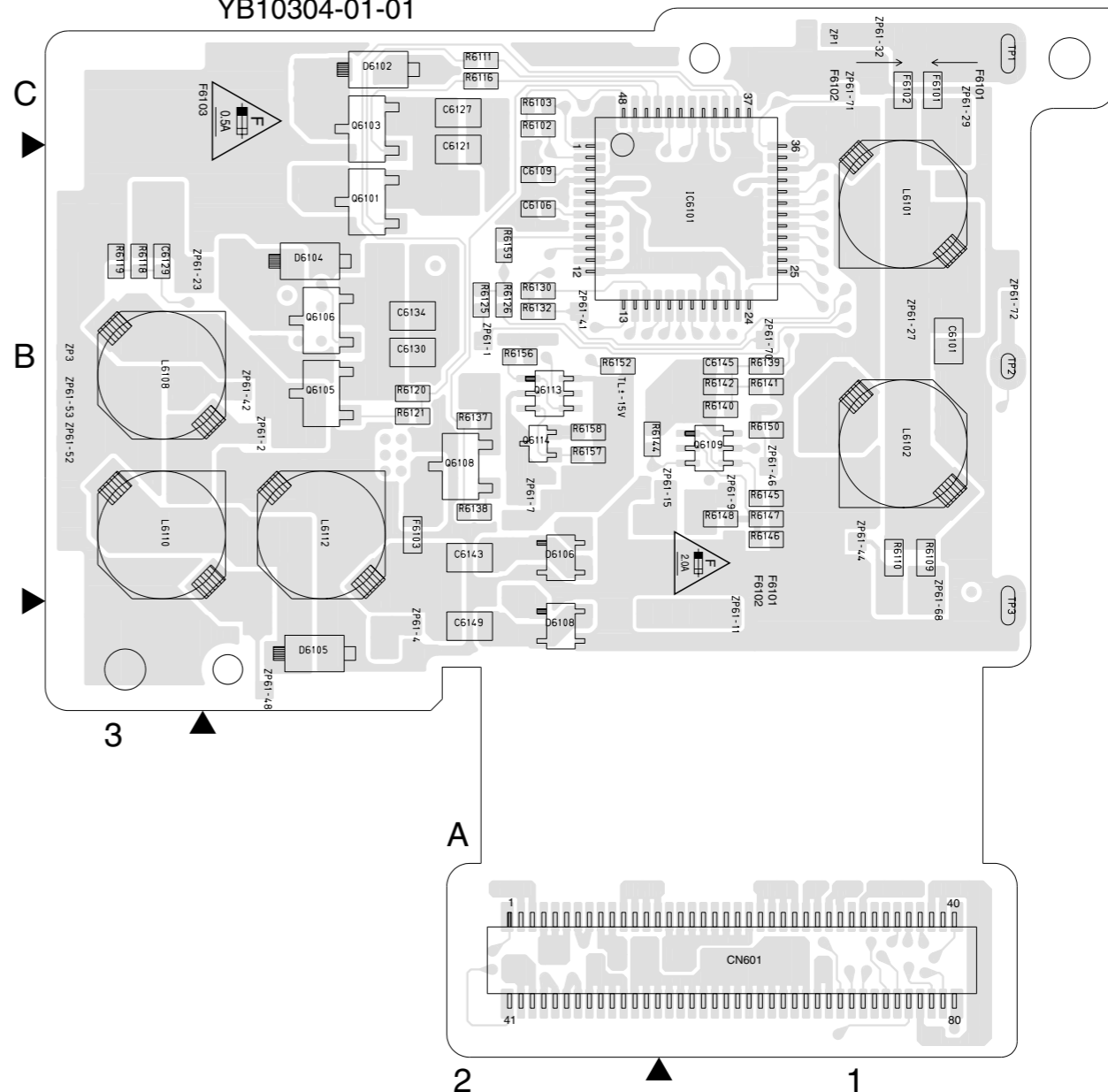
FOIL SIDE(B)

05 REG  
YB10304-01-01



COMPONENT SIDE(A)

05 REG  
YB10304-01-01



COMPONENT PARTS LOCATION GUIDE <REG>

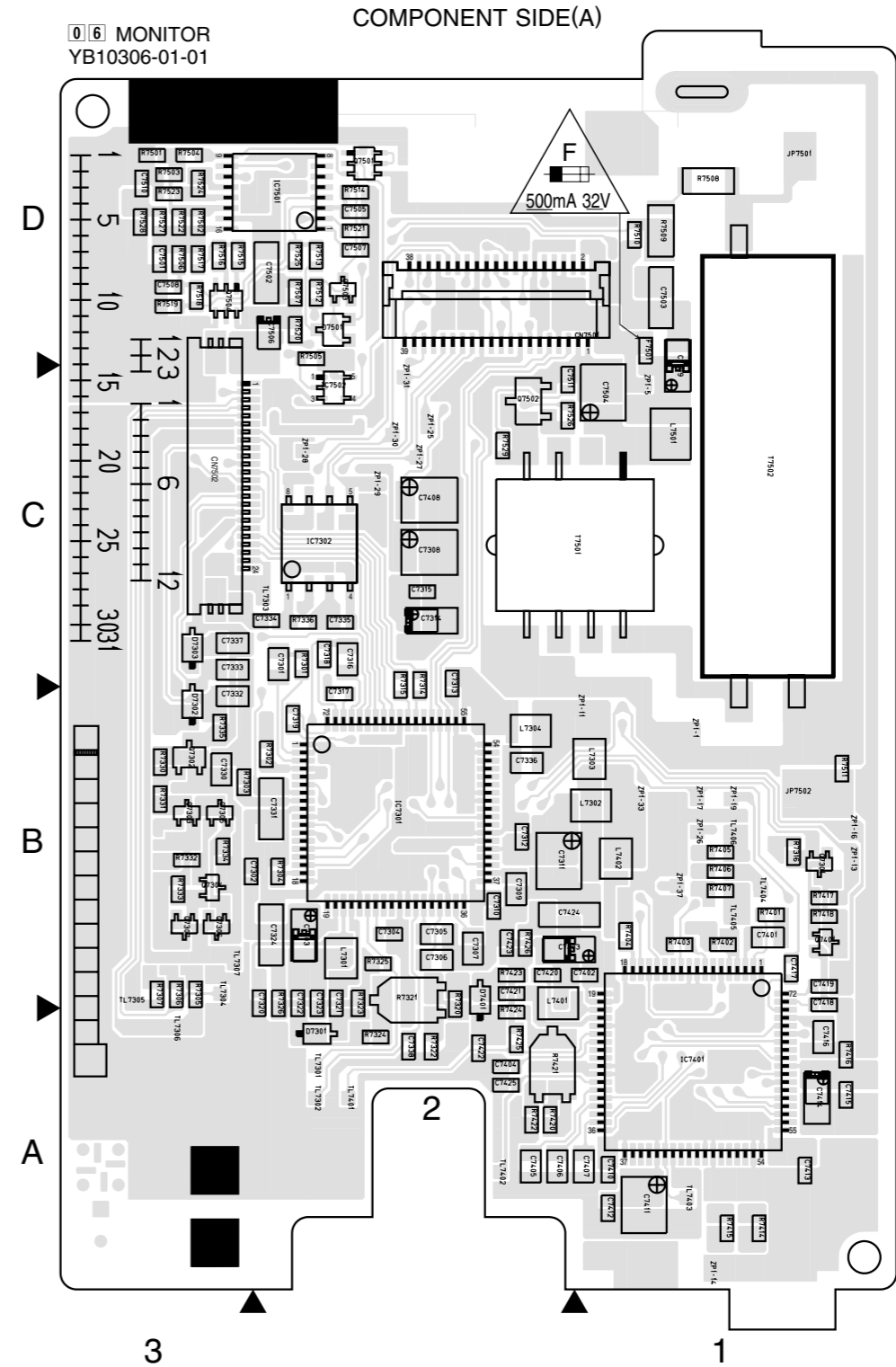
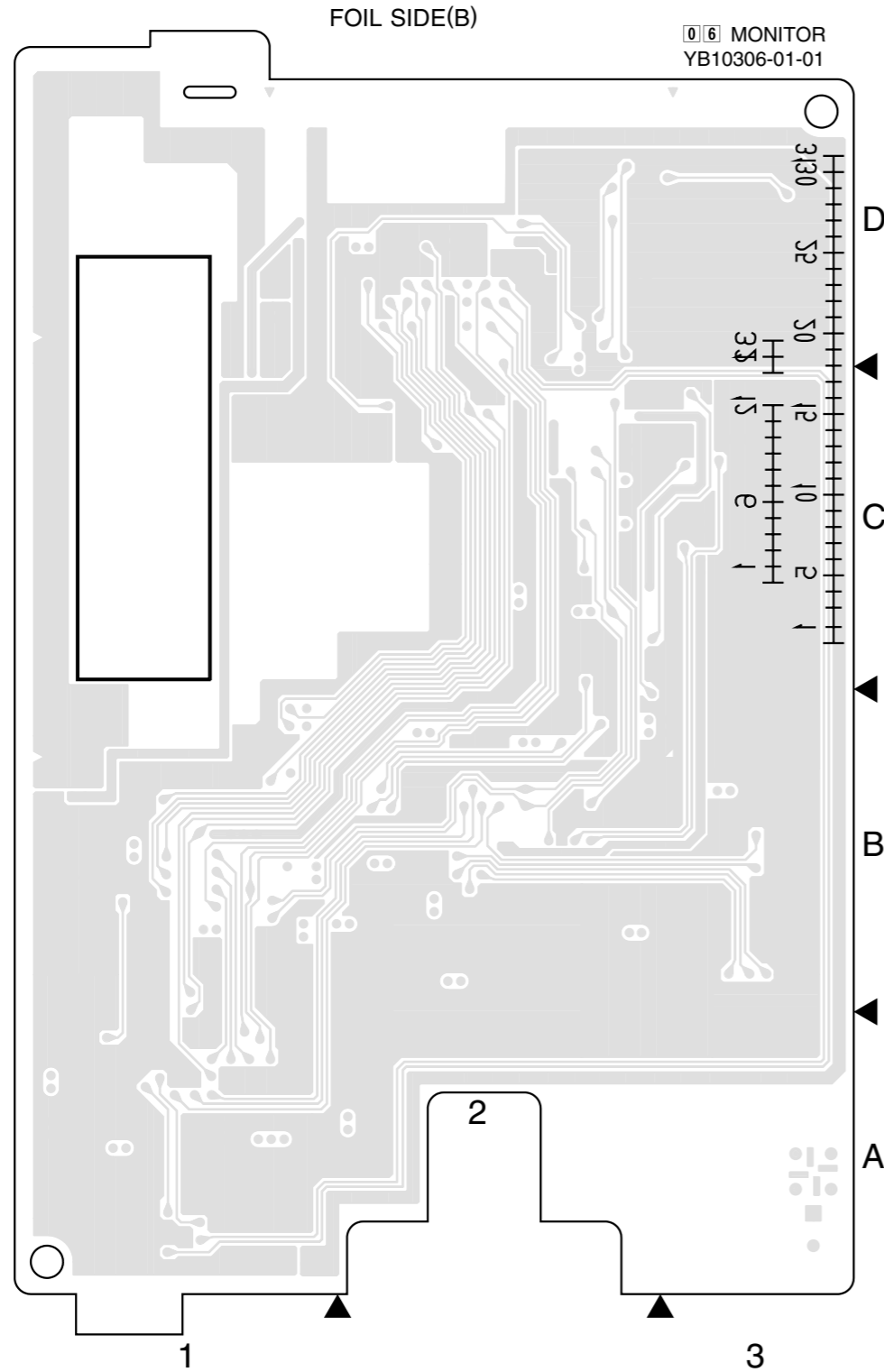
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<b>CAPACITOR</b>																													
C2205	A C 4A	C2701	A C 4A	C6102	B C 4B	C6103	B C 1B	C6123	B C 2B	C6126	B C 1A	C6146	B C 1B	D2901	A C 4B	L2206	A C 4A	L6112	A C 2B	Q6111	B C 1B	R2701	A C 4A	R2908	A C 4C	R6111	A C 2C	R6133	B C 2C
C2206	A C 4A	C2702	A C 4A	C6104	B C 2B	C6105	B C 2B	C6127	B C 2C	C6147	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	R6154	B C 2B	ZP61-2	A C 2B
C2207	A C 4A	C2703	A C 4A	C6106	A C 2B	C6107	B C 1B	C6128	A C 2C	C6148	B C 2B	D2903	A C 4B	L2902	B C 4B	Q6113	A C 2B	R2703	A C 4A	R2910	B C 4B	R6113	B C 2B	R6135	B C 2B	R6155	B C 2B	ZP61-4	A C 2A
C2208	A C 4A	C2704	A C 4A	C6108	B C 1B	C6109	A C 2B	C6129	A C 3B	C6149	A C 2A	D6101	B C 2B	L2903	B C 4B	Q6114	A C 2B	R2704	A C 4A	R2911	B C 4B	R6114	B C 2B	R6136	B C 2B	R6156	A C 2B	ZP61-7	A C 2B
C2209	A C 4A	C2705	A C 4A	C6110	B C 2B	C6111	B C 2B	C6130	A C 2B	C6150	B C 2B	D6102	A C 2C	L2904	B C 4B	<b>RESISTOR</b>													
C2211	B C 4A	C2706	A C 4A	C6112	B C 1B	C6113	B C 2B	C6131	B C 3B	C6151	B C 2A	D6103	B C 2B	L2905	B C 4B	R1112	A C 4C	R2705	A C 4A	R2912	B C 4B	R6115	A C 2B	R6137	A C 2B	R6157	A C 2B	ZP61-11	A C 1A
C2213	B C 4A	C2707	A C 4A	C6114	B C 1B	C6115	B C 2B	C6132	B C 3B	C6152	B C 2B	D6104	A C 2B	L2906	A C 4C	R1113	A C 4C	R2706	A C 4A	R2913	B C 4B	R6116	B C 2B	R6138	A C 2B	R6158	A C 2B	ZP61-15	A C 1B
C2214	A C 4A	C2708	A C 4A	C6115	B C 1B	C6116	B C 2B	C6133	B C 3B	C6153	B C 1C	D6105	A C 2A	L2907	B C 4B	R2201	A C 4A	R2707	A C 4A	R2914	A C 4B	R6117	A C 3B	R6139	A C 1B	R6159	A C 2B	ZP61-23	A C 3B
C2215	A C 4A	C2709	A C 4A	C6117	B C 2B	C6118	B C 1B	C6134	A C 2B	<b>CONNECTOR</b>				L2908	B C 4B	R2202	A C 4A	R2708	A C 4A	R2915	A C 4B	R6118	A C 3B	R6140	A C 1B	ZP61-29	A C 1B		
C2216	A C 5A	C2710	A C 4A	C6119	B C 2B	C6120	B C 1B	C6135	B C 3B	CN202	B C 4C	D6106	A C 2A	L2909	B C 4B	R2203	A C 4A	R2709	B C 4A	R2916	B C 4B	R6119	A C 3B	R6141	A C 1B	R6160	B C 1B	ZP61-27	A C 1B
C2217	A C 5A	C2711	B C 4A	C6121	B C 2B	C6122	B C 1B	C6136	B C 3B	CN203	B C 4B	D6107	B C 2B	L2910	A C 4C	R2204	A C 4A	R2710	B C 4A	R2917	A C 4B	R6120	A C 2B	R6142	B C 1B	J201	A D 5A	ZP61-22	A C 1C
C2218	A C 4A	C2712	B C 4A	C6123	B C 2B	C6124	B C 1B	C6137	B C 3B	CN601	A C 2A	D6108	A C 2A	L2911	A C 4C	R2205	A C 4A	R2711	B C 4A	R2918	A C 4B	R6121	A C 2B	R6143	B C 1B	TL2201	A C 4B	ZP61-32	A C 2B
C2225	B C 5A	C2901	B C 4C	C6125	B C 1B	C6126	B C 2B	C6138	B C 3B	CN602	B C 1A	<b>FUSE</b>				R2712	B C 4A	R2919	A C 4B	R6122	A C 2B	R6144	A C 2B	TL2203	A C 4B	ZP61-42	A C 2B		
C2228	A C 5A	C2902	B C 4B	C6127	B C 2B	C6128	B C 1B	C6139	B C 3B	<b>DIODE</b>				R2713	B C 4A	R2920	B C 4B	R6123	B C 2B	R6145	A C 2B	TL2204	A C 4B	ZP61-44	A C 1B				
C2229	B C 4B	C2903	A C 4C	C6129	B C 1B	C6130	B C 2B	C6140	B C 2B	D2701	B C 4A	F6101	A C 1C	L6101	A C 1B	R2206	A C 4A	R2902	A C 4C	R6124	B C 2B	R6146	A C 1B	TL2603	A C 4B	ZP61-48	A C 2A		
C2230	B C 4B	C2904	A C 4C	C6131	B C 1B	C6132	B C 2B	C6141	B C 2A	D2702	B C 4A	F6102	A C 1C	L6102	A C 1B	R2207	B C 4A	R2903	A C 4C	R6125	A C 2B	R6147	A C 1B	TL2604	A C 4B	ZP61-52	A C 3B		
C2231	B C 4B	C2905	A C 4C	C6133	B C 1B	C6134	B C 2B	C6142	B C 2A	D2703	B C 4A	F6103	A C 2B	L6103	B C 1B	R2208	B C 4A	R2904	A C 4C	R6126	A C 2B	TP1	A C 1C	TP1	A C 1C	ZP61-53	A C 3B		
C2232	A C 4B	C2906	A C 4B	C6135	B C 1B	C6136	B C 2B	C6143	A C 2B	D2704	B C 4A	<b>IC</b>				R2714	B C 4A	R2905	A C 4C	R6127	B C 2C	TP2	A C 1B	ZP61-68	A C 3B				
C2233	A C 4B	C2907	A C 4B	C6137	B C 1B	C6138	B C 2B	C6144	B C 2B	D2705	B C 4A	IC6101	A C 1B	L6104	B C 1B	R2209	B C 4A	R2906	A C 4C	R6128	B C 2B	TP3	A C 1A	TP2	A C 1B	ZP61-69	A C 1B		
C2234	A C 4B	C6101	A C 1B	C6139	B C 2B	C6140	B C 1B	C6145	A C 1B	D2706	B C 4A	<b>COIL</b>				R2210	B C 4A	R2907	A C 4C	R6129	B C 2B	ZP1	A C 1C	ZP61-70	A C 1B				
										L2201	B C 4A	L6105	A C 1B	R2211	B C 4A	R2908	A C 4C	R6130	A C 2B	R6150	A C 1B	ZP2	A C 1A	ZP1	A C 1C	ZP61-71	A C 1C		
										L2202	A C 4A	L6106	A C 2B	R2212	B C 4A	R2909	A C 4C	R6131	B C 2B	R6151	A C 2B	ZP3	A C 3B	ZP2	A C 1C	ZP61-72	A C 1B		

4.31 MONITOR CIRCUIT BOARD



• CAUTION:  
FOR CONTINUED PROTECTION AGAINST  
FIRE HAZARD, REPLACE ONLY WITH SAME  
TYPE AND RATED FUSE(S).

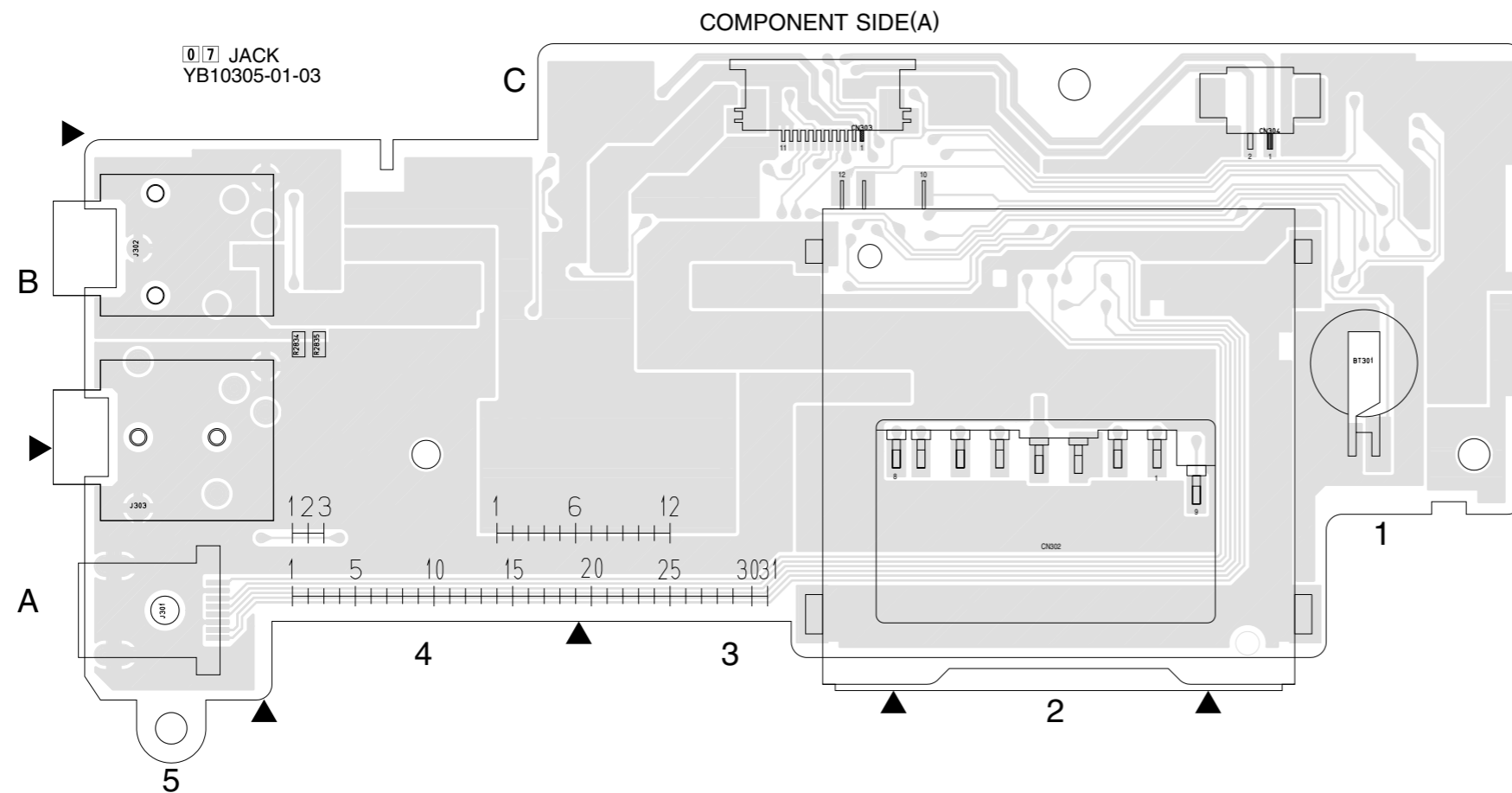
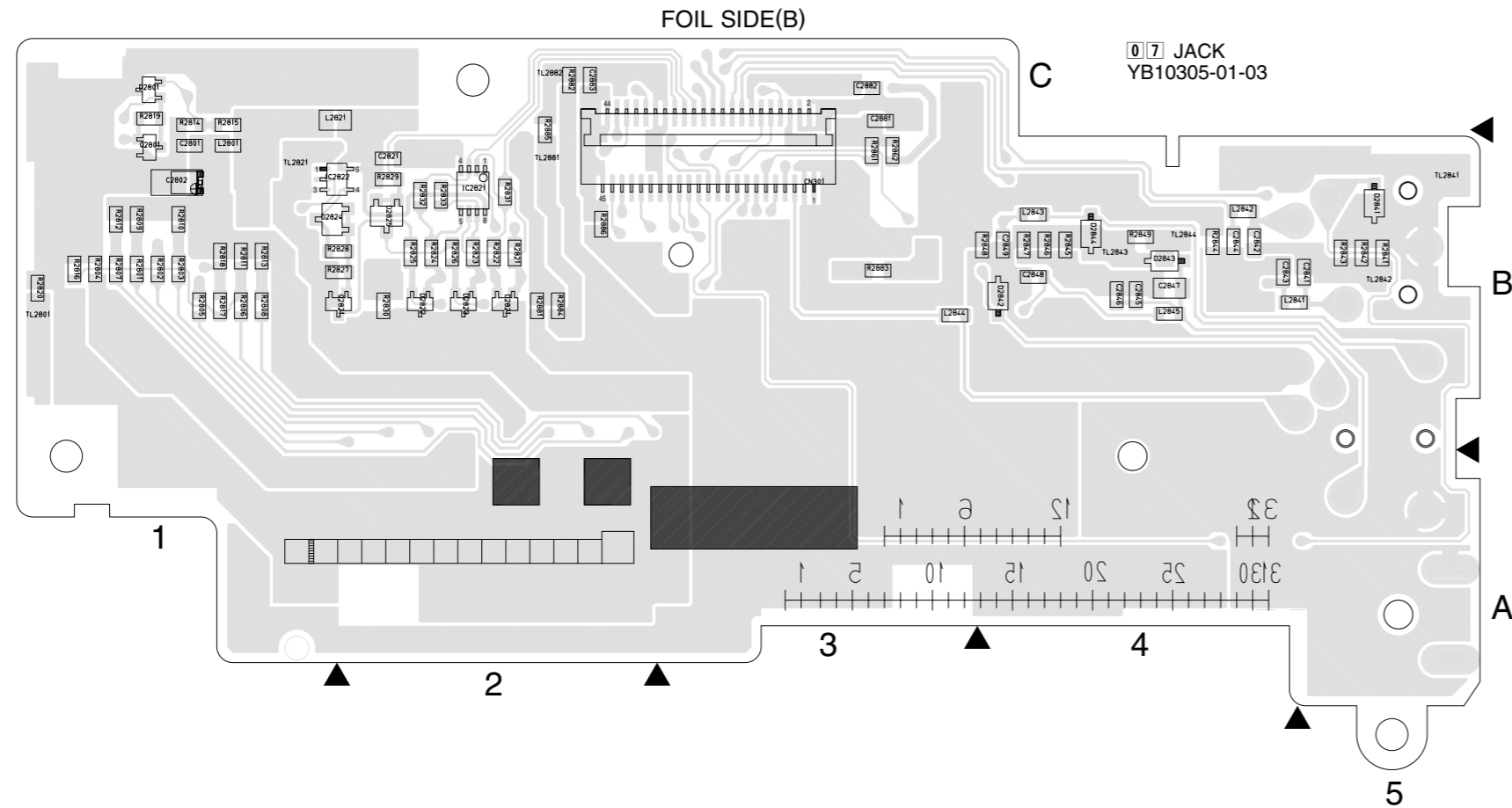
• ATTENTION:  
POUR UNE PROTECTION PERMANENTE  
CONTRE LES RISQUE D'INCENDIE,  
REMPLEZ LES FUSIBLES PAR UN AUTRE  
DE MEME TYPE ET DE MEME TENSION.



COMPONENT PARTS LOCATION GUIDE < MONITOR >

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>																													
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 1A
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 3C	R7421	A C 2A	R7510	A C 1D	R7525	A C 2D	TL7303	A C 3C	ZP1-14	A C 1B
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 2C	R7422	A C 2A	R7511	A C 2C	R7526	A C 2C	TL7304	A C 3B	ZP1-16	A C 1A
C7305	A C 2B	C7319	A C 2C	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 2C	R7337	A C 3B	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	L7305	A C 2B	L7304	A C 2B	Q7502	A C 2C	R7320	A C 2B	R7338	A C 3B	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	L7306	A C 2B	L7305	A C 2B	Q7503	A C 2D	R7321	A C 2B	R7339	A C 3B	R7425	A C 2A	R7514	A C 2D	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	L7307	A C 2B	L7306	A C 2B	Q7504	A C 3D	R7322	A C 2A	R7340	A C 3B	R7426	A C 2B	R7515	A C 3D	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 3C	L7308	A C 2B	L7307	A C 2B	R7323	A C 2A	R7341	A C 3B	R7427	A C 2B	R7516	A C 3D	TL7402	A C 2A	ZP1-27	A C 2C				
C7310	A C 2B	C7324	A C 2B	C7406	A C 2A	C7421	A C 2B	C7511	A C 2C	L7309	A C 2B	L7308	A C 2B	R7324	A C 2A	R7342	A C 3B	R7428	A C 1B	R7517	A C 3D	TL7403	A C 2A	ZP1-28	A C 2C				
C7311	A C 2B	C7325	A C 2B	C7407	A C 2A	C7422	A C 2A	<b>CONNECTOR</b>		L7310	A C 2B	L7309	A C 2B	R7325	A C 2B	R7343	A C 3B	R7429	A C 1B	R7518	A C 3D	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	CN7501	A C 2D	L7311	A C 2B	L7310	A C 2B	R7326	A C 2B	R7344	A C 3B	R7430	A C 1A	R7519	A C 3D	TL7405	A C 1B	ZP1-30	A C 2C				
C7313	A C 2C	C7327	A C 2B	C7409	A C 1A	C7424	A C 2B	CN7502	A C 3C	L7312	A C 2B	L7311	A C 2B	R7327	A C 3B	R7345	A C 3B	R7431	A C 1A	R7520	A C 2D	TL7406	A C 1B	ZP1-31	A C 2C				
				C7410	A C 1A	C7425	A C 2A			L7313	A C 2B	L7312	A C 2B	Q7301	A C 1B	R7302	A C 3B	R7432	A C 1A	R7521	A C 2D	T7501	A C 2C	ZP1-1	A C 1B	ZP1-33	A C 2B		
				C7411	A C 1A	C7501	A C 3D			L7314	A C 2B	L7313	A C 2B	Q7302	A C 3B	R7303	A C 3B	R7433	A C 1A	R7522	A C 3D	T7502	A C 1C	ZP1-2	A C 1B	ZP1-34	A C 2C		
										L7315	A C 2B	L7314	A C 2B	Q7303	A C 3B	R7304	A C 2B	R7434	A C 1A					ZP1-3	A C 1B	ZP1-35	A C 2C		
										L7316	A C 2B	L7315	A C 2B	Q7304	A C 3B	R7305	A C 3B	R7435	A C 1B					ZP1-4	A C 1B	ZP1-36	A C 2C		
										L7317	A C 2B	L7316	A C 2B					R7436	A C 1B					ZP1-5	A C 1C	ZP1-37	A C 1C		

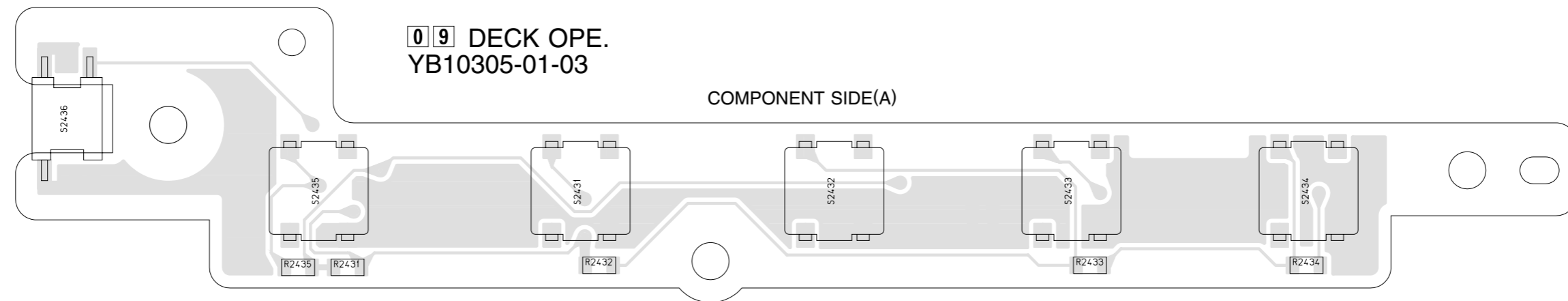
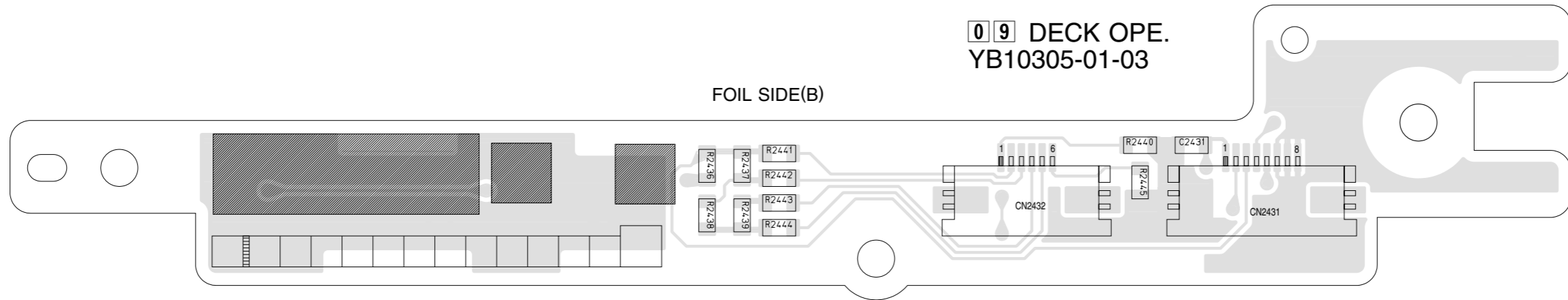
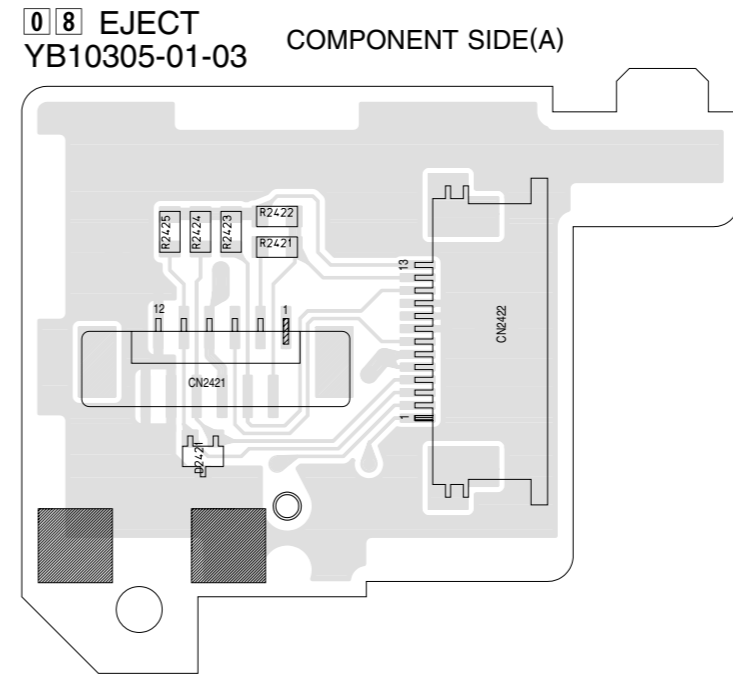
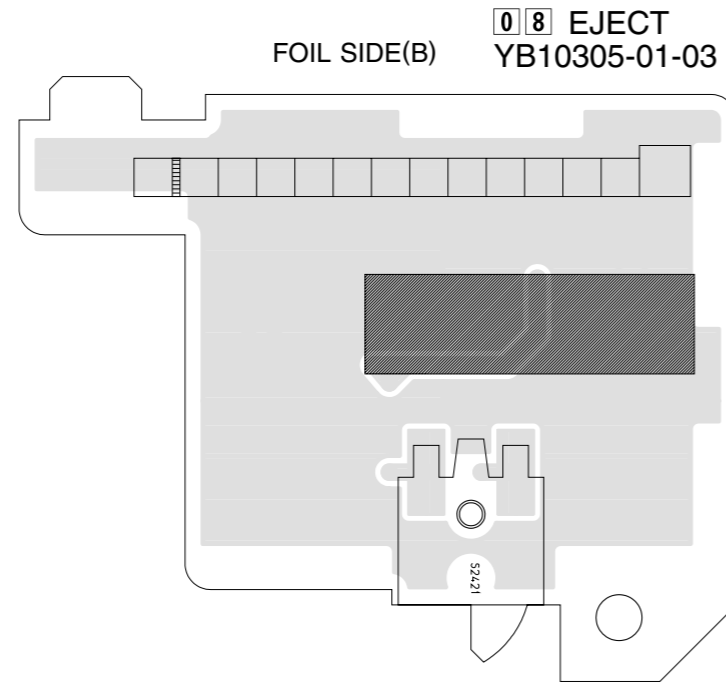
4.32 JACK CIRCUIT BOARD



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>OTHER</b>			
		BT301	A C 1B
		J301	A C 5A
		J302	A D 5B
		J303	A D 5A
		PC05	A C 5C
<b>IC</b>			
IC2821	B C 2B	TL2801	B C 1B
IC2822	B C 2B	TL2821	B C 1B
<b>COIL</b>			
L2801	B C 1B	TL2841	B C 5B
L2821	B C 1C	TL2842	B C 5B
L2841	B C 4B	TL2843	B C 4B
L2842	B C 4B	TL2844	B C 4B
L2843	B C 4B	TL2881	B C 2B
L2844	B C 3B	TL2882	B C 2C
L2845	B C 4B		
<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		

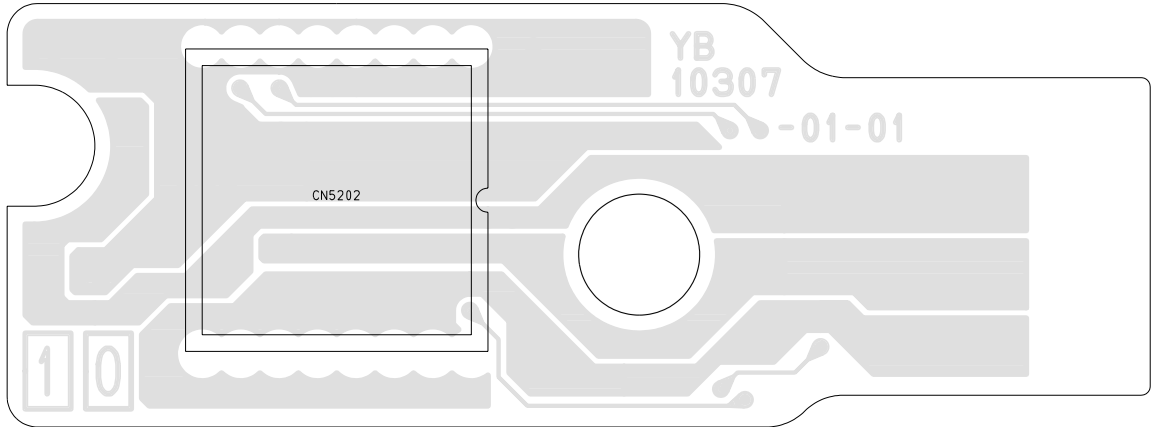
4.33 EJECT AND DECK OPE. CIRCUIT BOARDS



### 4.34 CCD CIRCUIT BOARD

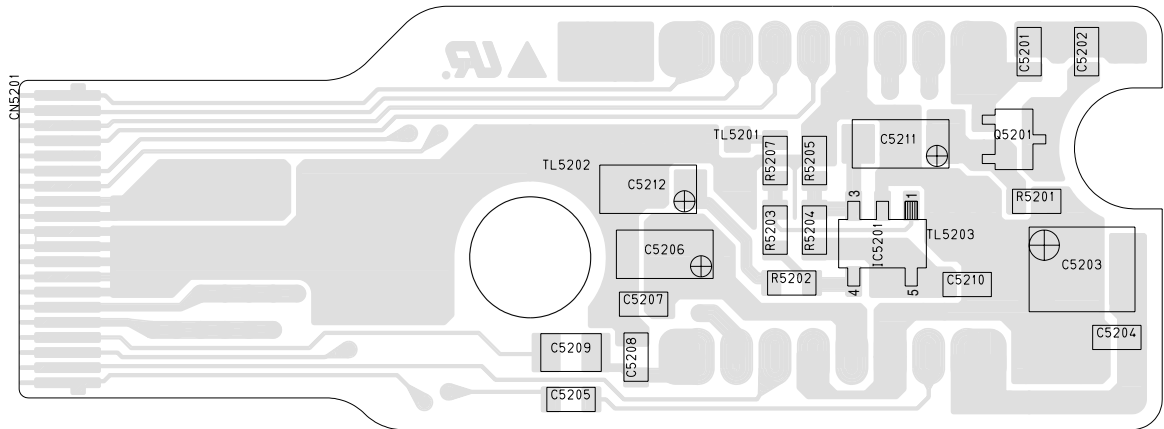
1 0 CCD  
YB10307-01-01

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

#### <MSD CPU>

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

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>

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

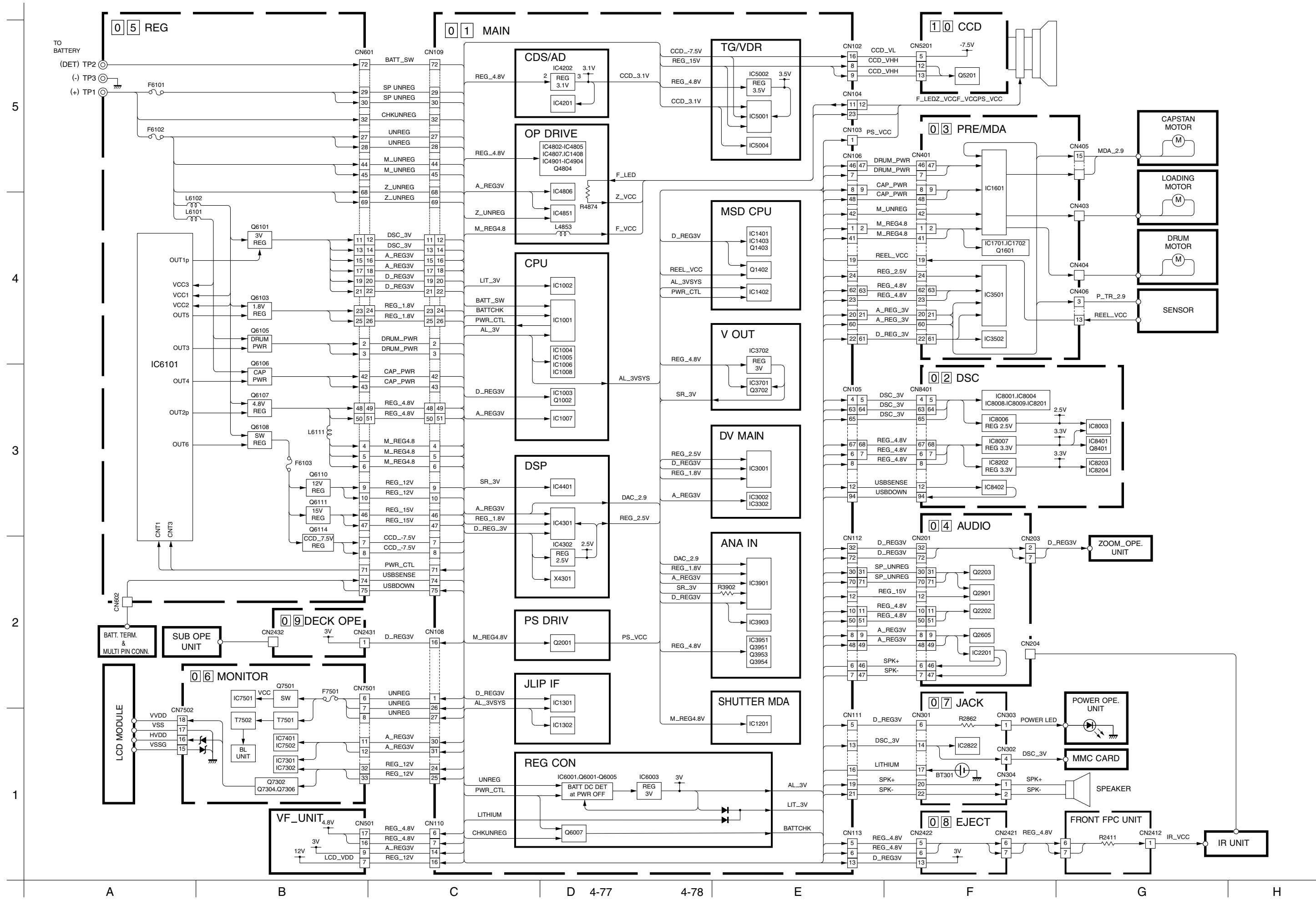
MODE PIN NO.	REC	PLAY
20	0.5	0.5
21	0	0
22	0	0
23	0.8	0.8
24	6.6	6.6
25	1.5	1.5
26	1.5	1.5
27	1.5	1.5
28	1.5	1.5
29	1.5	1.5
30	1.5	1.5
31	1.5	1.5
32	1.5	1.5
33	-	-
34	1.5	1.5
35	3.0	3.0
36	3.0	3.0
37	0.4	0.4
38	0.7	0.7
39	0.7	0.7
40	1.2	1.2
41	1.5	1.5
42	1.5	0.6
43	2.9	2.9
44	0	0
45	0	0
46	0	0
47	2.9	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

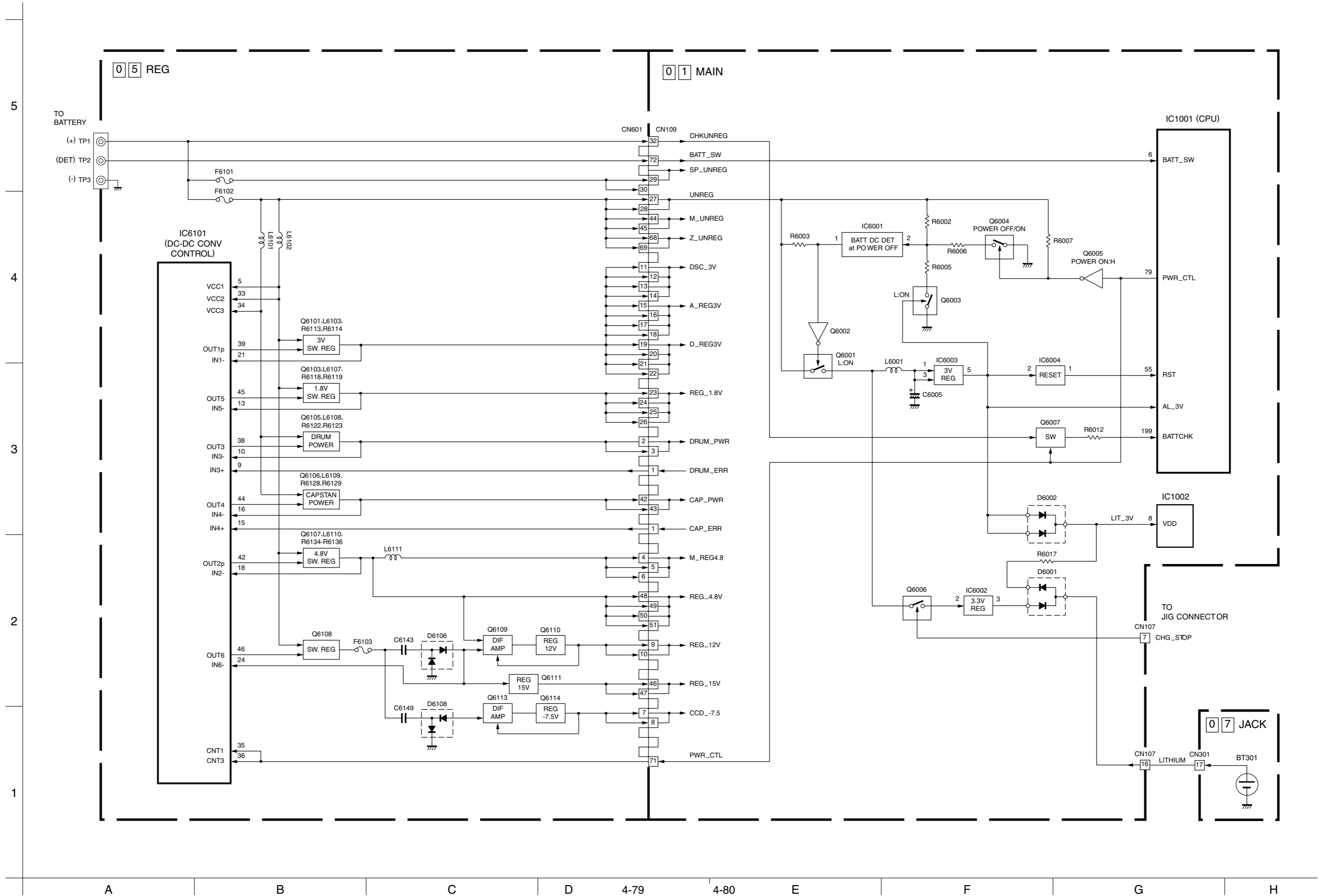
<PRE/REC>

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

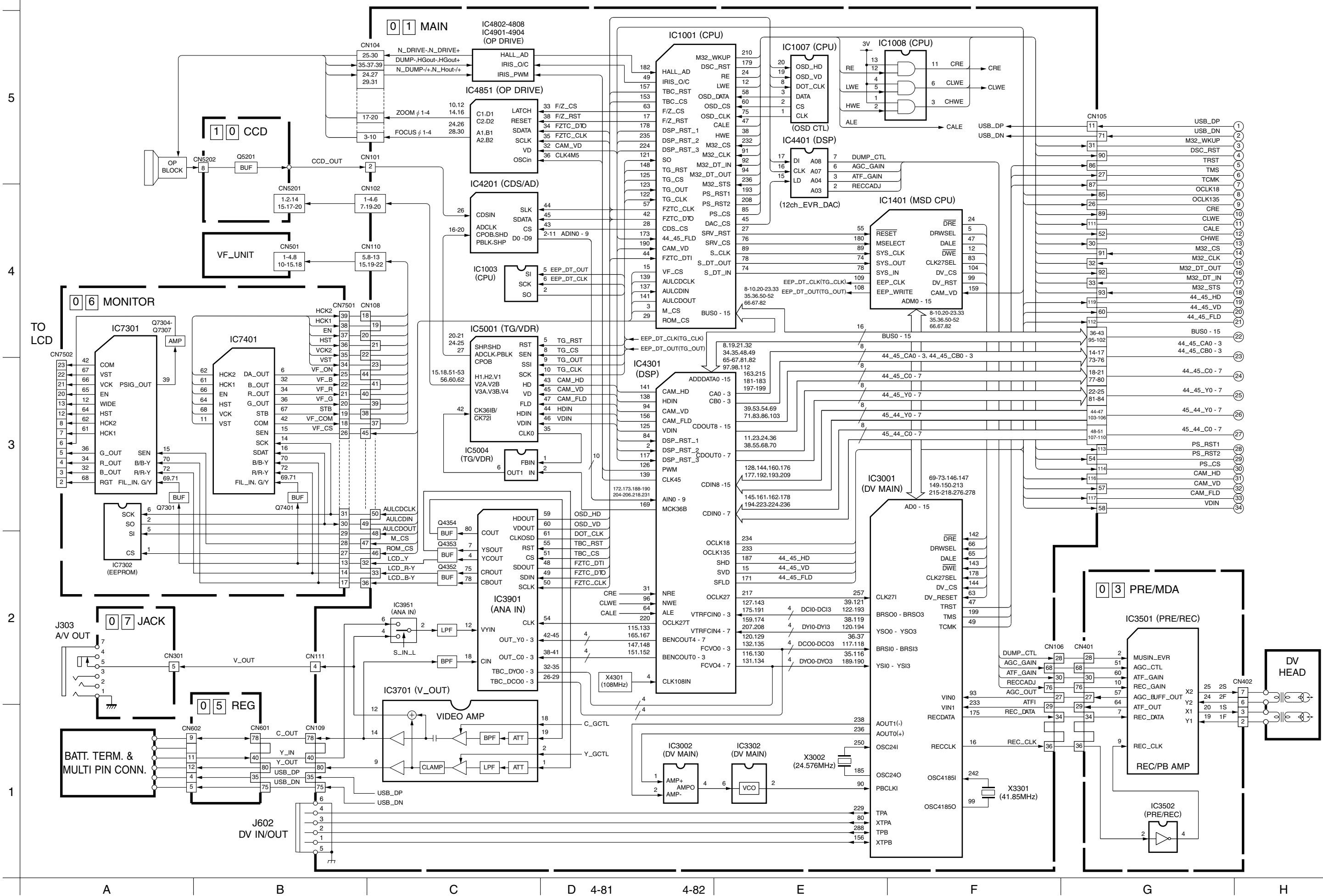
# 4.36 POWER SYSTEM BLOCK DIAGRAM

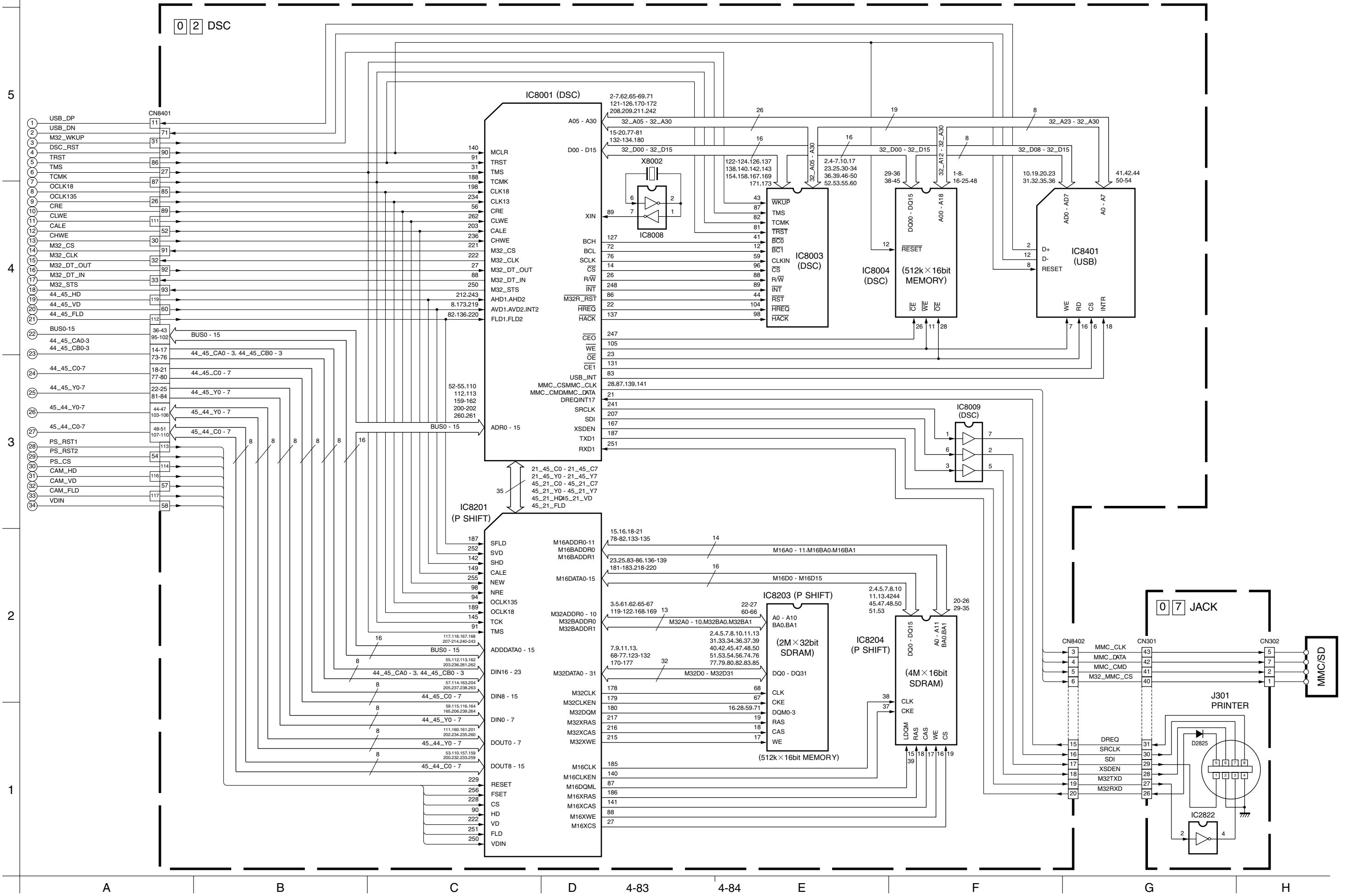


4.37 REGULATOR SYSTEM BLOCK DIAGRAM



4.38 VIDEO SYSTEM BLOCK DIAGRAM





4.39 AUDIO SYSTEM BLOCK DIAGRAM

