

# JVC

## SCHEMATIC DIAGRAMS

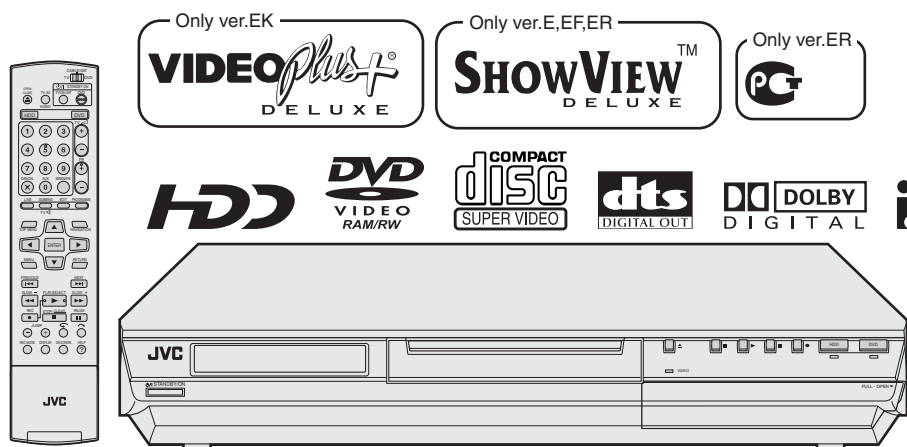
### DVD & HDD VIDEO RECORDER

# DR-MH20SE, DR-MH20SEK, DR-MH20SEF DR-MH30SE, DR-MH30SEK DR-MH30SEF, DR-MH30SER

CD-ROM No.SML200409

#### Area Suffix

EK ----- U.K.  
EF ----- France  
ER ---- Russian Federation  
E ----- Continental Europe  
          Northern Europe



DR-MH20SE, DR-MH20SEK, DR-MH20SEF [D4HR20]  
DR-MH30SE, DR-MH30SEK, DR-MH30SEF, DR-MH30SER [D4HR25]


Since the whole mechanism assembly unit is replaced, the DVD recorder mechanism of this unit need not be adjusted.



# 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: KΩ(1000Ω), M: MΩ (1000KΩ)
- 2) All capacitance values are in μF, (P: PF).
- 3) All inductance values are in μH, (m: mH).
- 4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

**Note:** 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.

### 2. Indications of control voltage

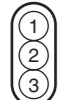
AUX : Active at high.

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

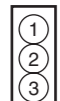
### 3. Interpreting Connector indications



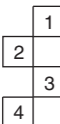
Removable connector



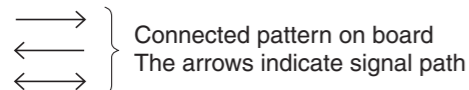
Wire soldered directly on board



Non-removable Board connector



Board to Board

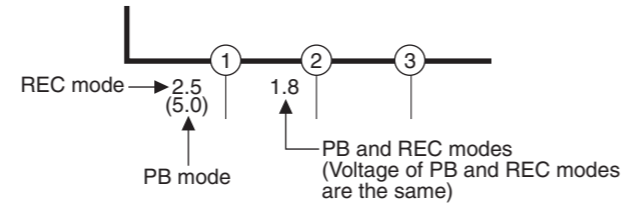


Connected pattern on board  
The arrows indicate signal path

**Note:** For the destination of each signal and further line connections that are cut off from the diagram, refer to "BOARD INTERCONNECTIONS"

### 4. Voltage measurement

- 1) Regulator (DC/DC CONV) circuits  
REC : Colour bar signal.  
PB : Alignment tape (Colour bar).  
— : Unmeasurable or unnecessary to measure.
- 2) 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.

### 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

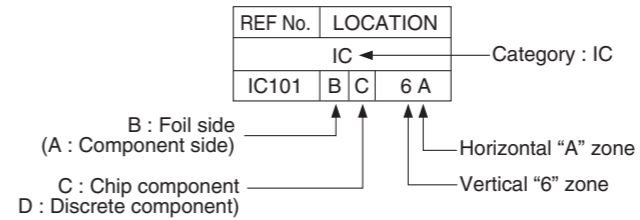
### 1. Foil and Component sides

- 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.

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

### 2. Parts location guides

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

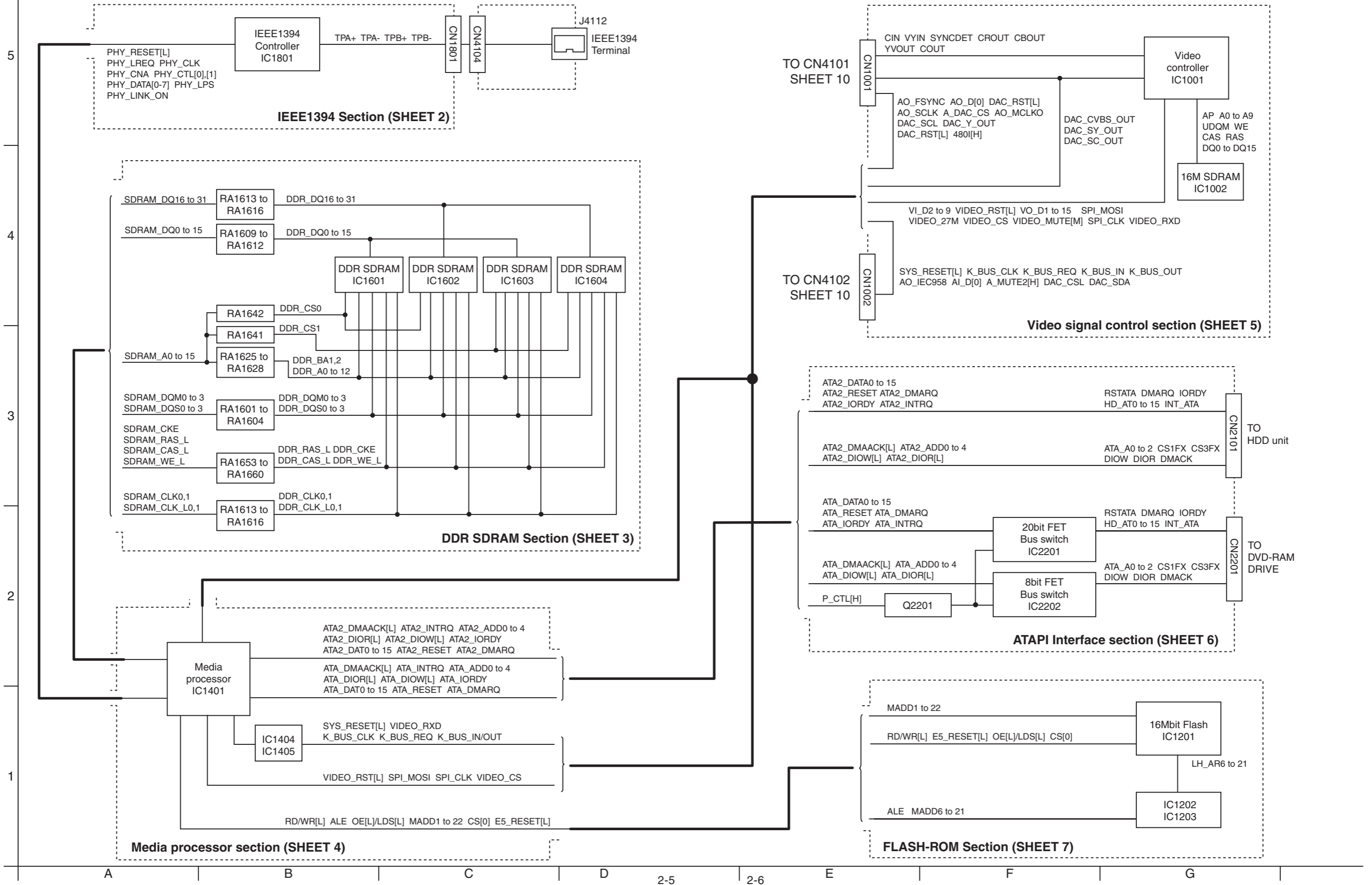


**Note:** For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).



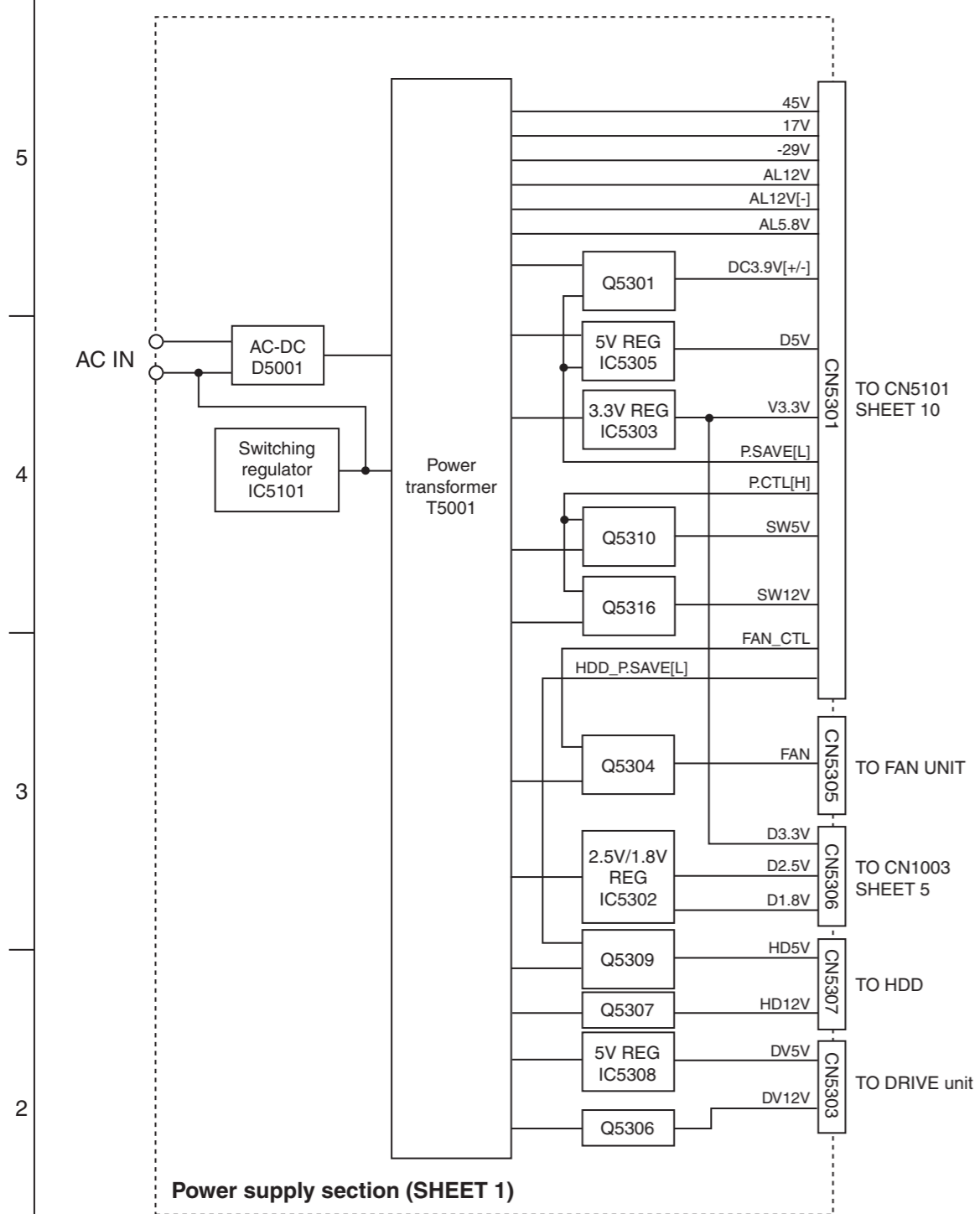
# Block diagrams

■ DIGITAL 0 2

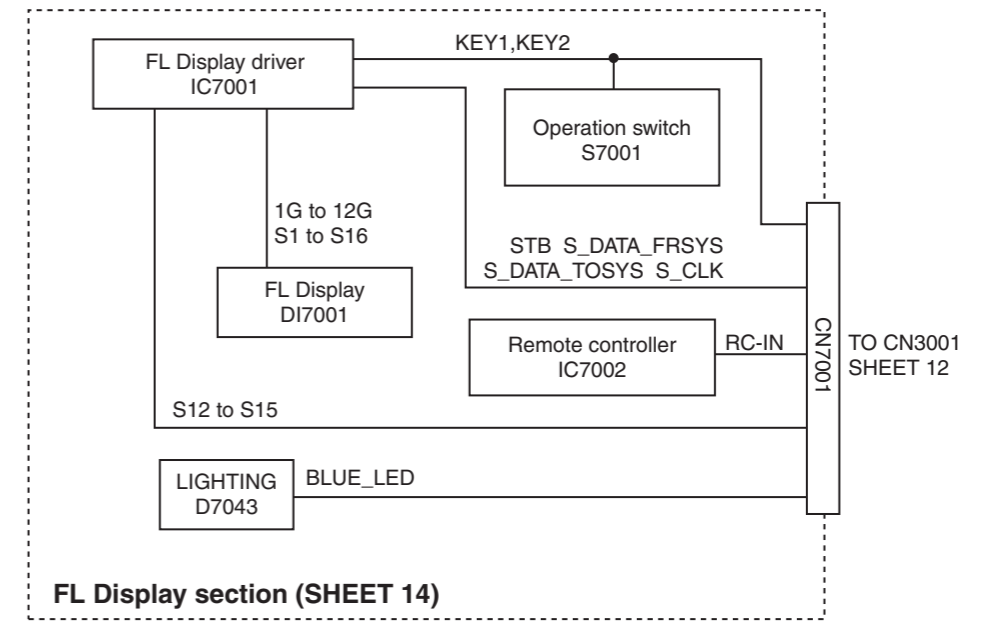




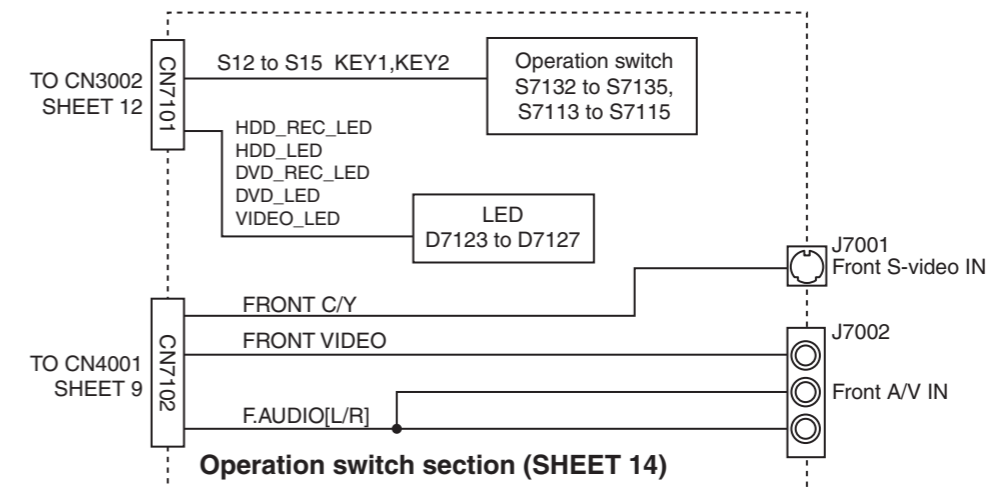
■ SW.REG 0 1



■ SW/DISPLAY 2 8



■ OPERATE 2 7



1

2

3

4

5

A

B

C

D

2-9

2-10

E

F

G





02 DIGITAL (1394\_PHY)

5  
4  
3  
2  
1

FROM/TO MEDIA\_PROCESSOR

D3.3V

PHY\_RESET[L]

PHY\_LREQ

PHY\_CLK

PHY\_CNA

PHY\_CTL[0]

PHY\_CTL[1]

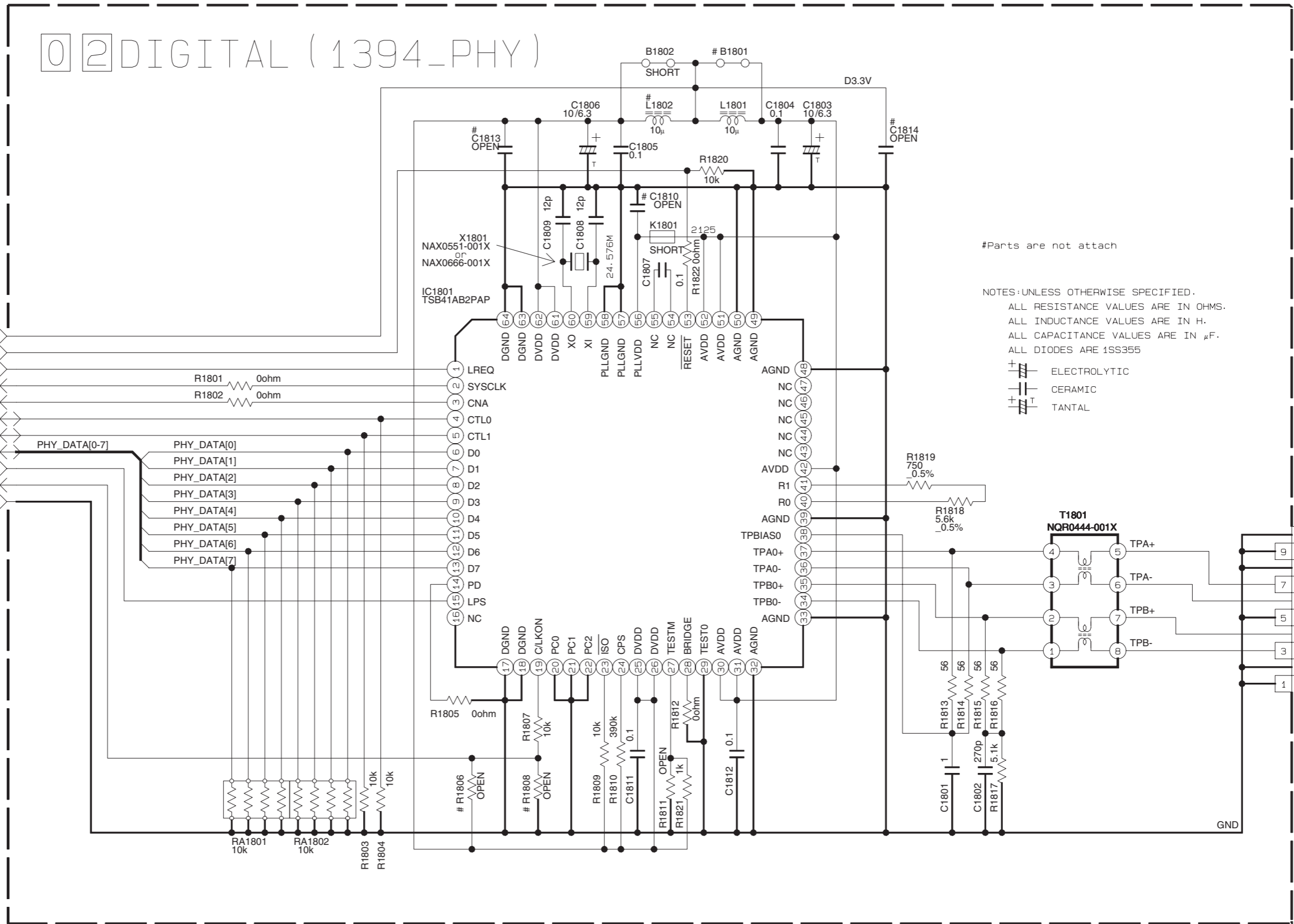
PHY\_DATA[0-7]

PHY\_LPS

PHY\_LINK\_ON

GND

TO SHEET 4



#Parts are not attach

NOTES: UNLESS OTHERWISE SPECIFIED.  
 ALL RESISTANCE VALUES ARE IN OHMS.  
 ALL INDUCTANCE VALUES ARE IN H.  
 ALL CAPACITANCE VALUES ARE IN  $\mu$ F.  
 ALL DIODES ARE 1SS355

ELECTROLYTIC  
 CERAMIC  
 TANTAL

CN1801  
QGB2027L1-10X

10 GND

9 GND

8 GND

7 TPA+

6 TPA-

5 GND

4 TPB+

3 TPB-

2 GND

1 GND

TO CN4104 SHEET 10

# DDR SDRAM Section

DDR\_SDRAM

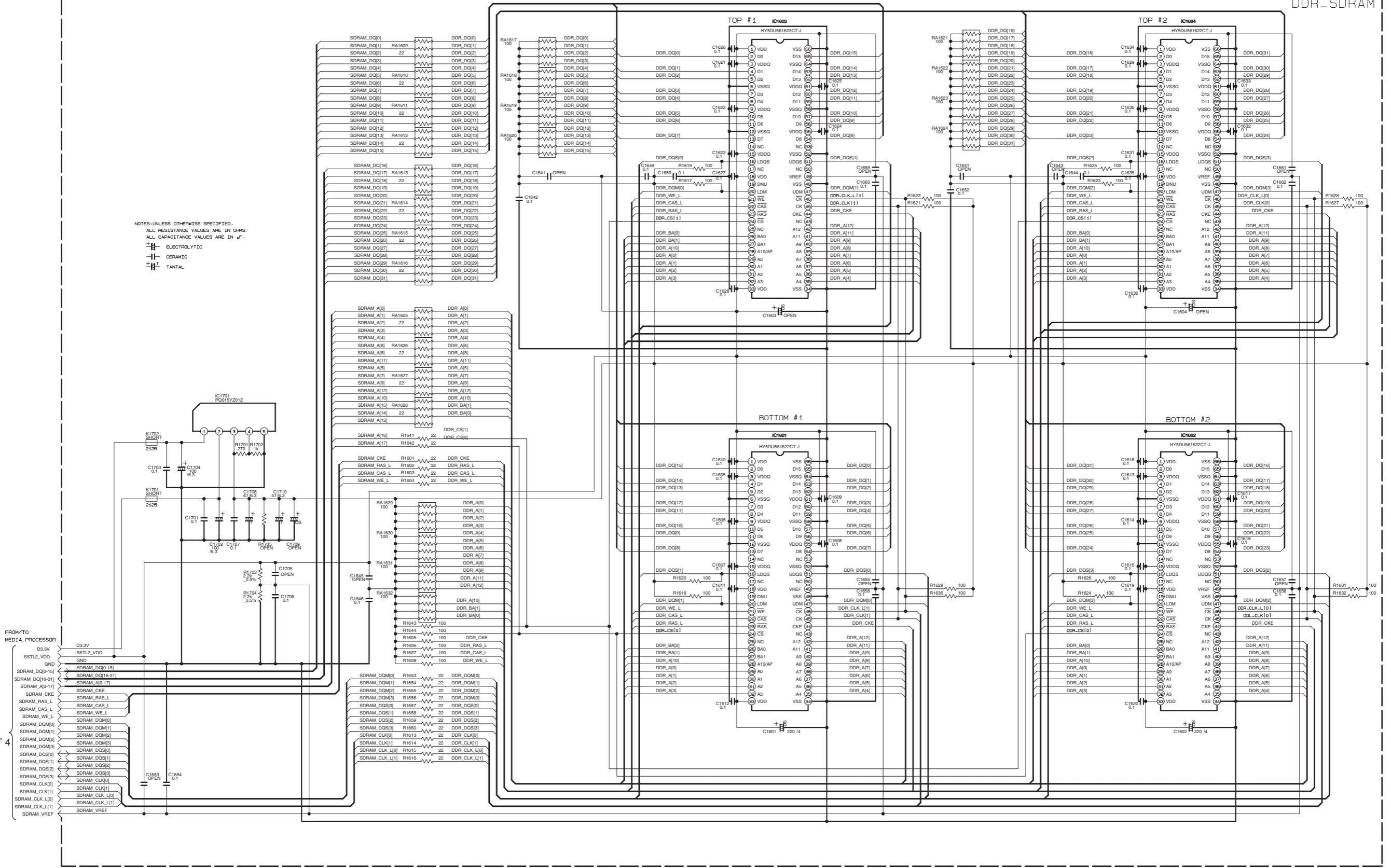
5

4

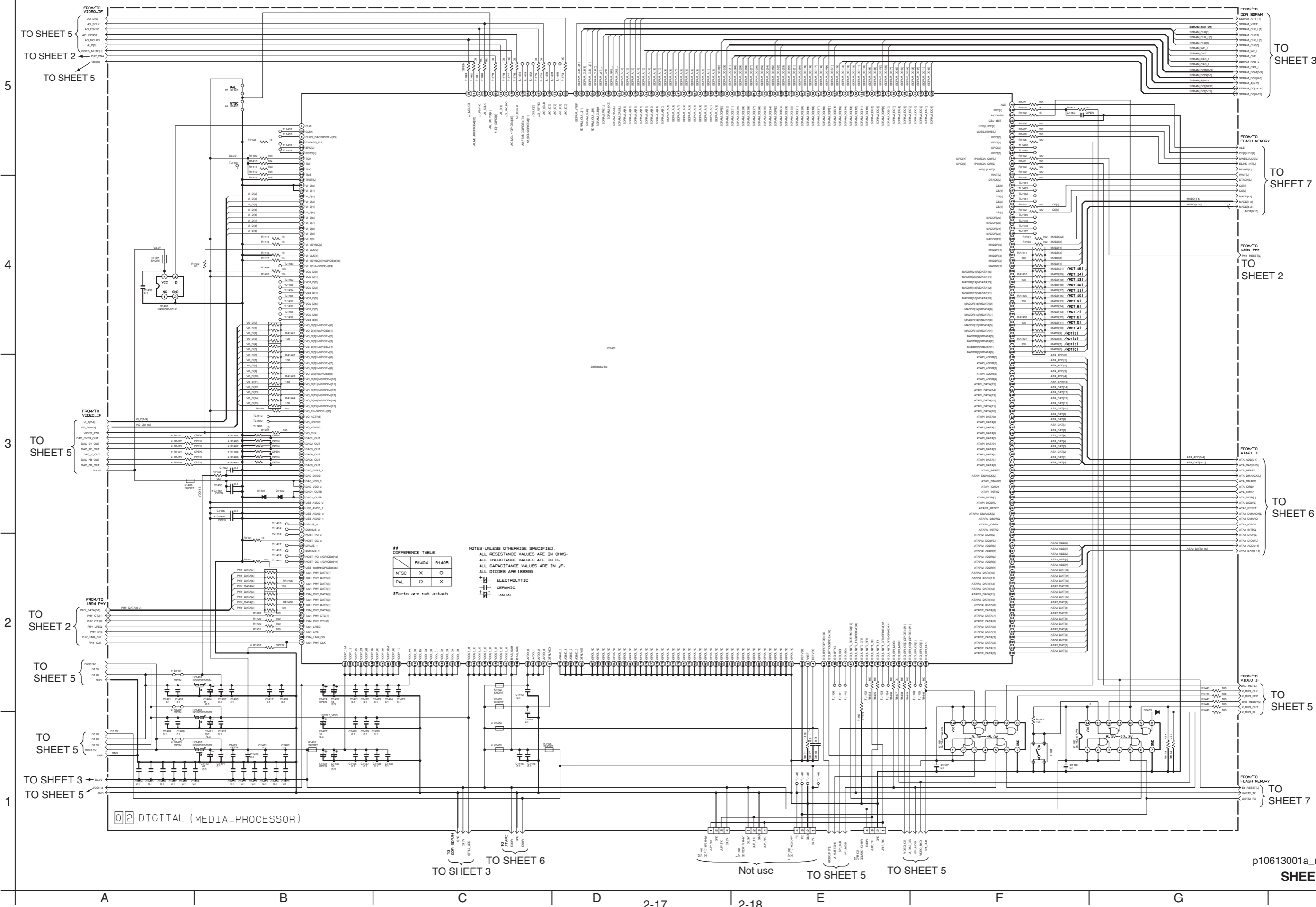
3

2

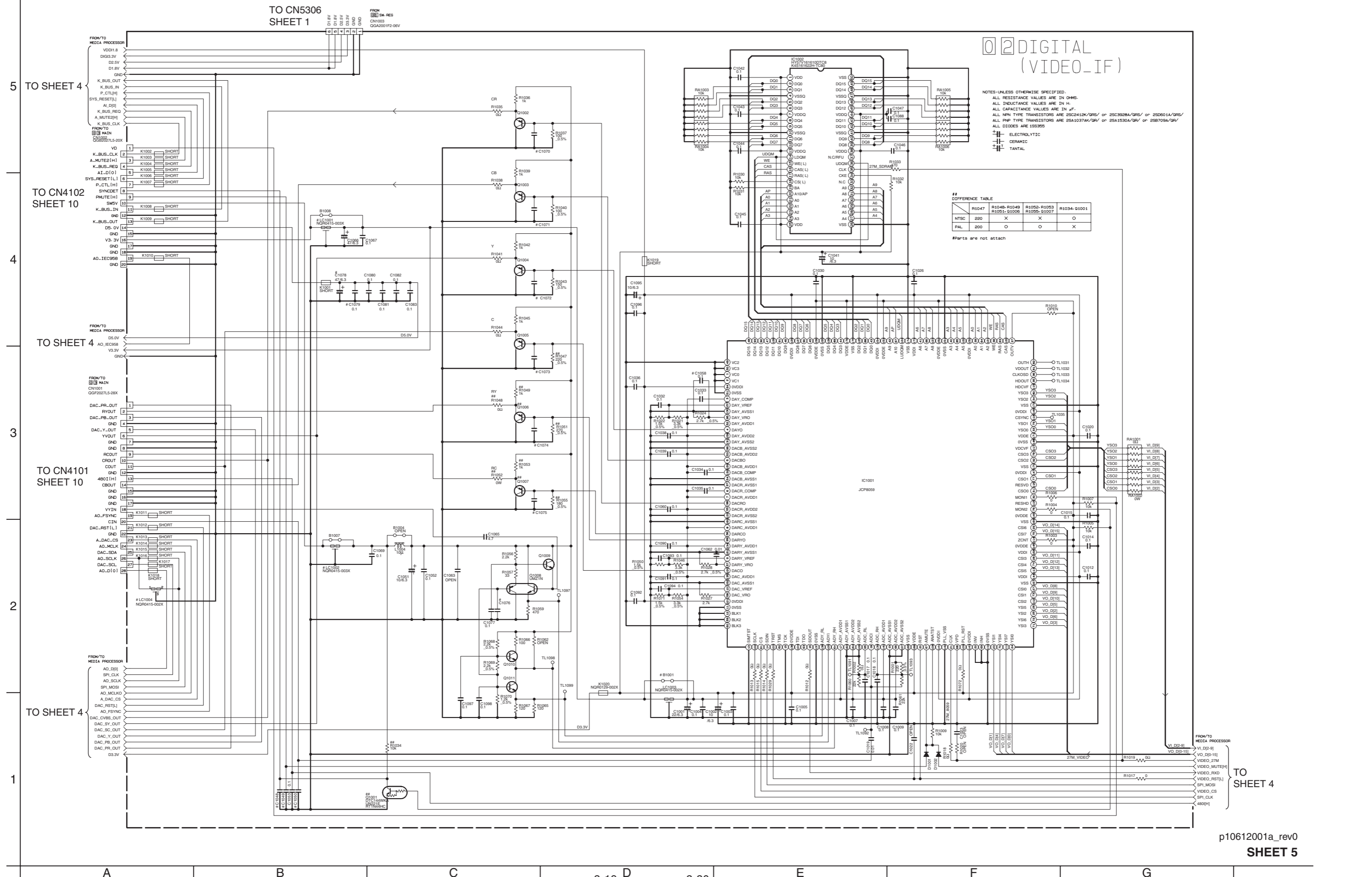
1



# Media processor section



# Video signal control section



DIGITAL  
(VIDEO-IF)

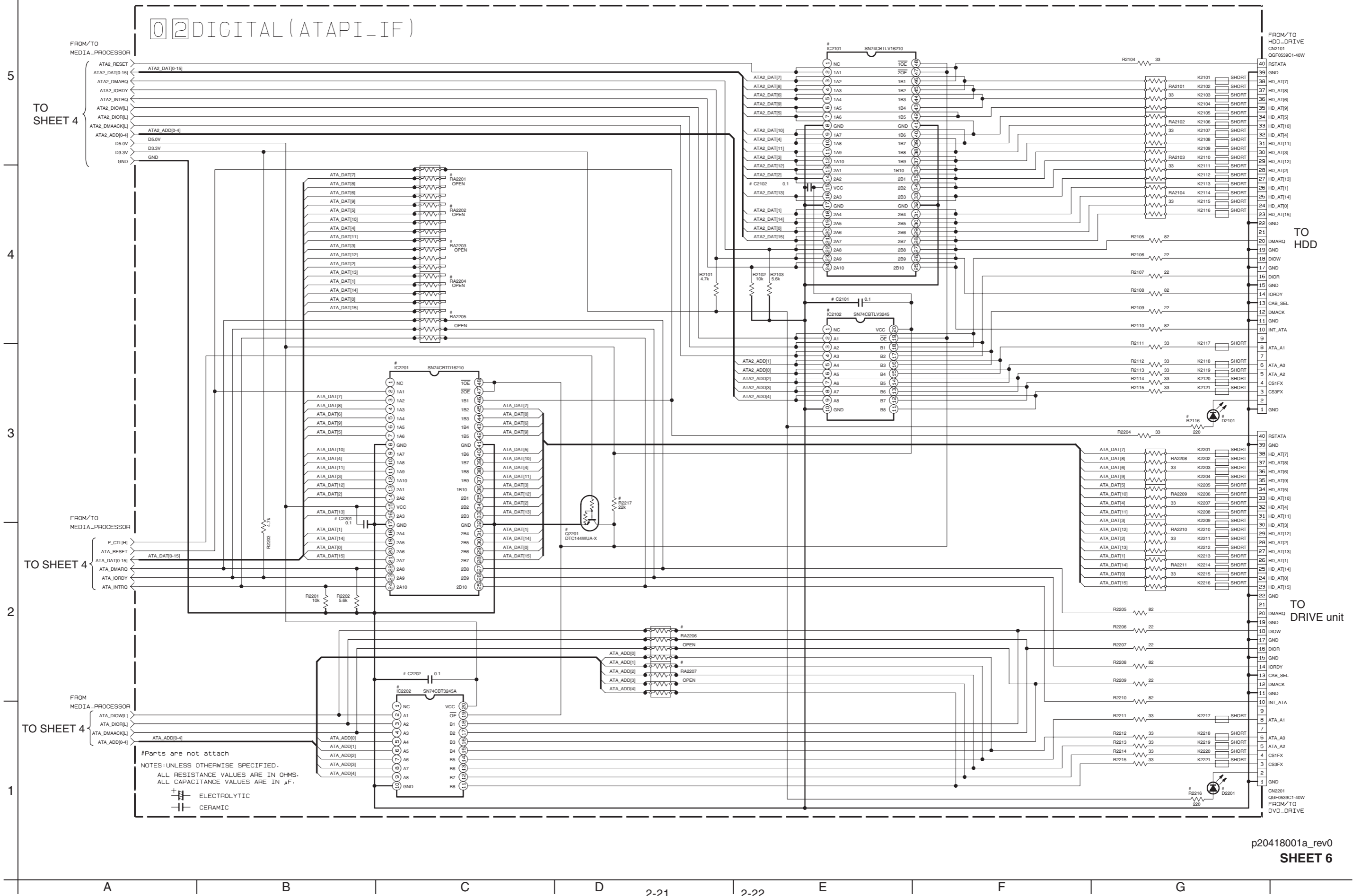
NOTES (UNLESS OTHERWISE SPECIFIED):  
 ALL RESISTANCE VALUES ARE IN OHMS.  
 ALL INDUCTANCE VALUES ARE IN H.  
 ALL CAPACITANCE VALUES ARE IN P.  
 ALL NPN TYPE TRANSISTORS ARE 2SC2418K/G/S/ or 2SC3928M/G/S/ or 2SD651M/G/S/  
 ALL PNP TYPE TRANSISTORS ARE 2SA1037M/G/S/ or 2SA1530A/G/S/ or 2SB709M/G/S/  
 ALL DIODES ARE 1S8395  
 ELECTROLYTIC  
 CERAMIC  
 TANTAL

DIFFERENCE TABLE

	R1047	R1048-R1049 R1051-Q1006	R1052-R1053 R1055-Q1007	R1034-Q1001
NTSC	200	X	X	O
PAL	200	O	O	X

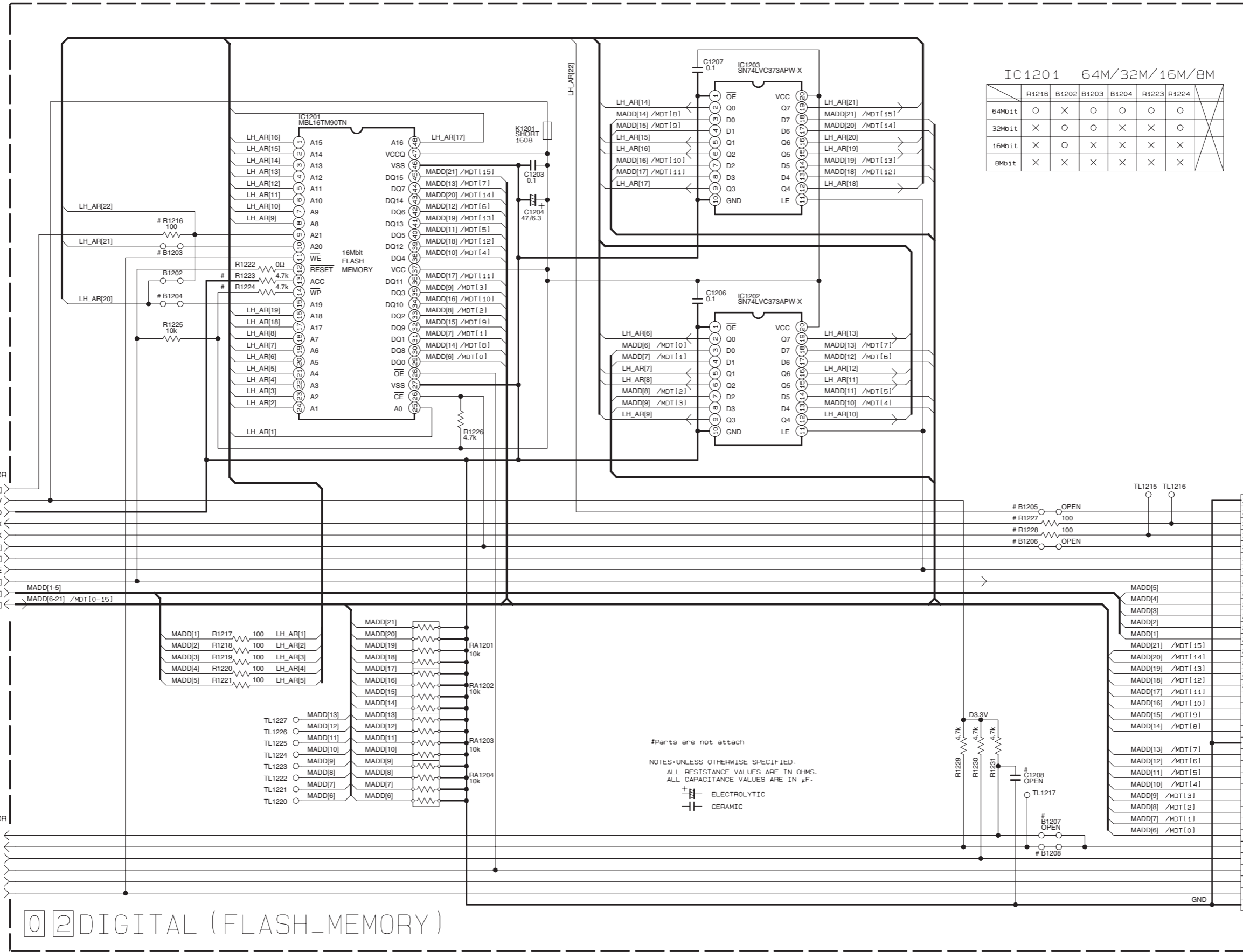
#Parts are not attach

# ATAPI Interface section



FLASH-ROM Section

5  
4  
3  
2  
1



FROM/TO MEDIA\_PROCESSOR

TO SHEET 4

MADD[22] D3.3V

GND

UART2\_RX

UART2\_TX

CS[0]

CS[1]

ALE

E5\_RESET[L]

MADD[1-5]

MADD[6-21]

FROM/TO MEDIA\_PROCESSOR

TO SHEET 4

DTACK[L]

WAIT[L]

ELINK\_INT[L]

OE[L]/LDS[L]

UWE[L]/UDS[L]

RD/WR[L]

to/from ELINK BOARD

#CN1202

36 GND

35 UART2\_CTS /MADD[22]

34 UART2\_RX

33 UART2\_TX

32 UART2\_RTS /cs\_L[0]

31 CS\_L[1]

30 ALE

29 RST[L]

28 MADD[5]

27 MADD[4]

26 MADD[3]

25 MADD[2]

24 MADD[1]

23 MADD[21]/MDT[15]

22 MADD[20]/MDT[14]

21 MADD[19]/MDT[13]

20 MADD[18]/MDT[12]

19 MADD[17]/MDT[11]

18 MADD[16]/MDT[10]

17 MADD[15]/MDT[9]

16 MADD[14]/MDT[8]

15 GND

14 MADD[13]/MDT[7]

13 MADD[12]/MDT[6]

12 MADD[11]/MDT[5]

11 MADD[10]/MDT[4]

10 MADD[9]/MDT[3]

9 MADD[8]/MDT[2]

8 MADD[7]/MDT[1]

7 MADD[6]/MDT[0]

6 DTACK[L]/WAIT[L]

5 MEDUSA\_INT[L]

4 OE[L]/LDS[L]

3 UWE[L]/UDS[L]

2 RD/WR[L]

1 GND

#Parts are not attach

NOTES: UNLESS OTHERWISE SPECIFIED.

ALL RESISTANCE VALUES ARE IN OHMS.

ALL CAPACITANCE VALUES ARE IN #F.

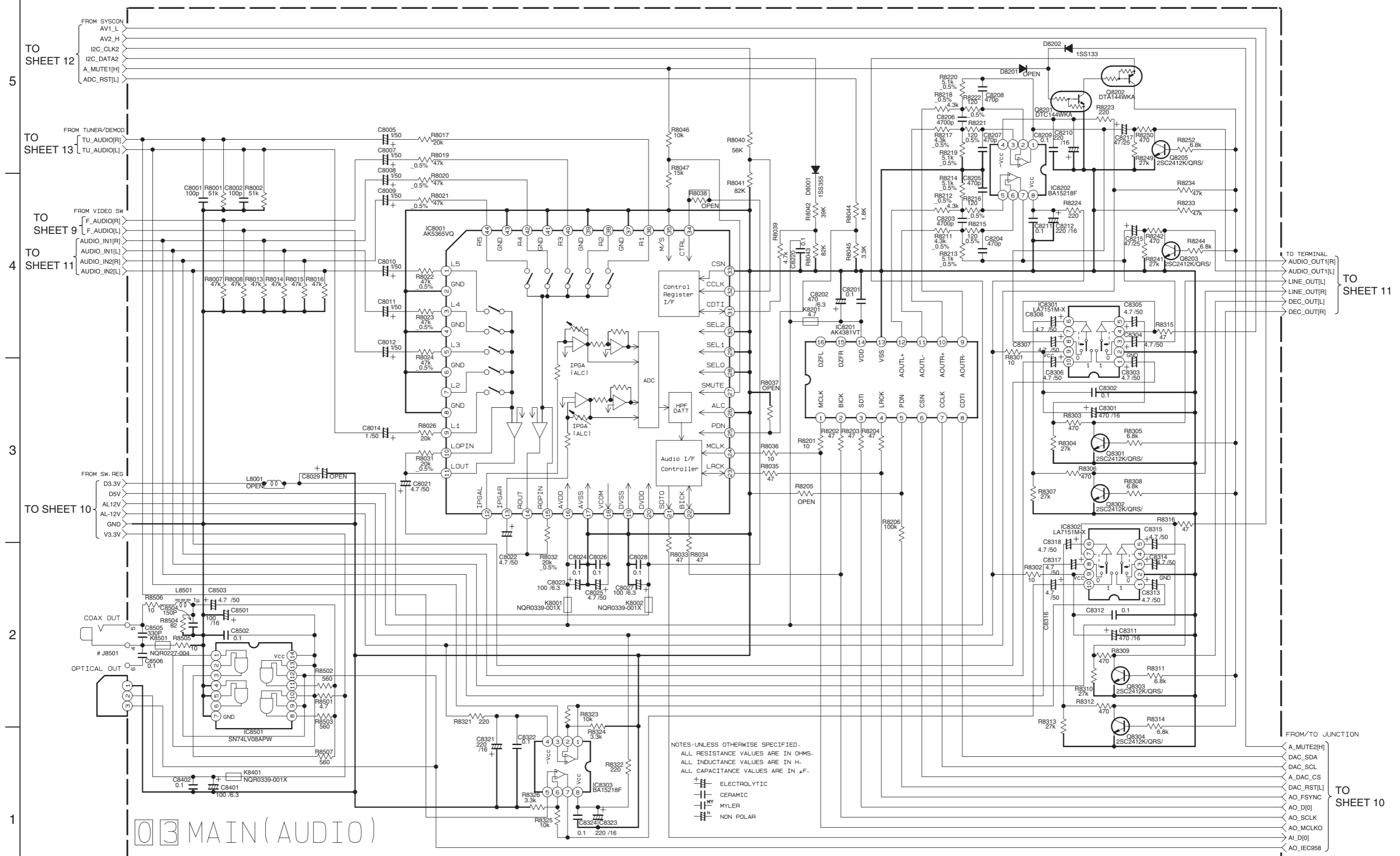
⊕ ELECTROLYTIC

⊖ CERAMIC

02DIGITAL (FLASH\_MEMORY)

A B C D E F G

**Audio signal control section**

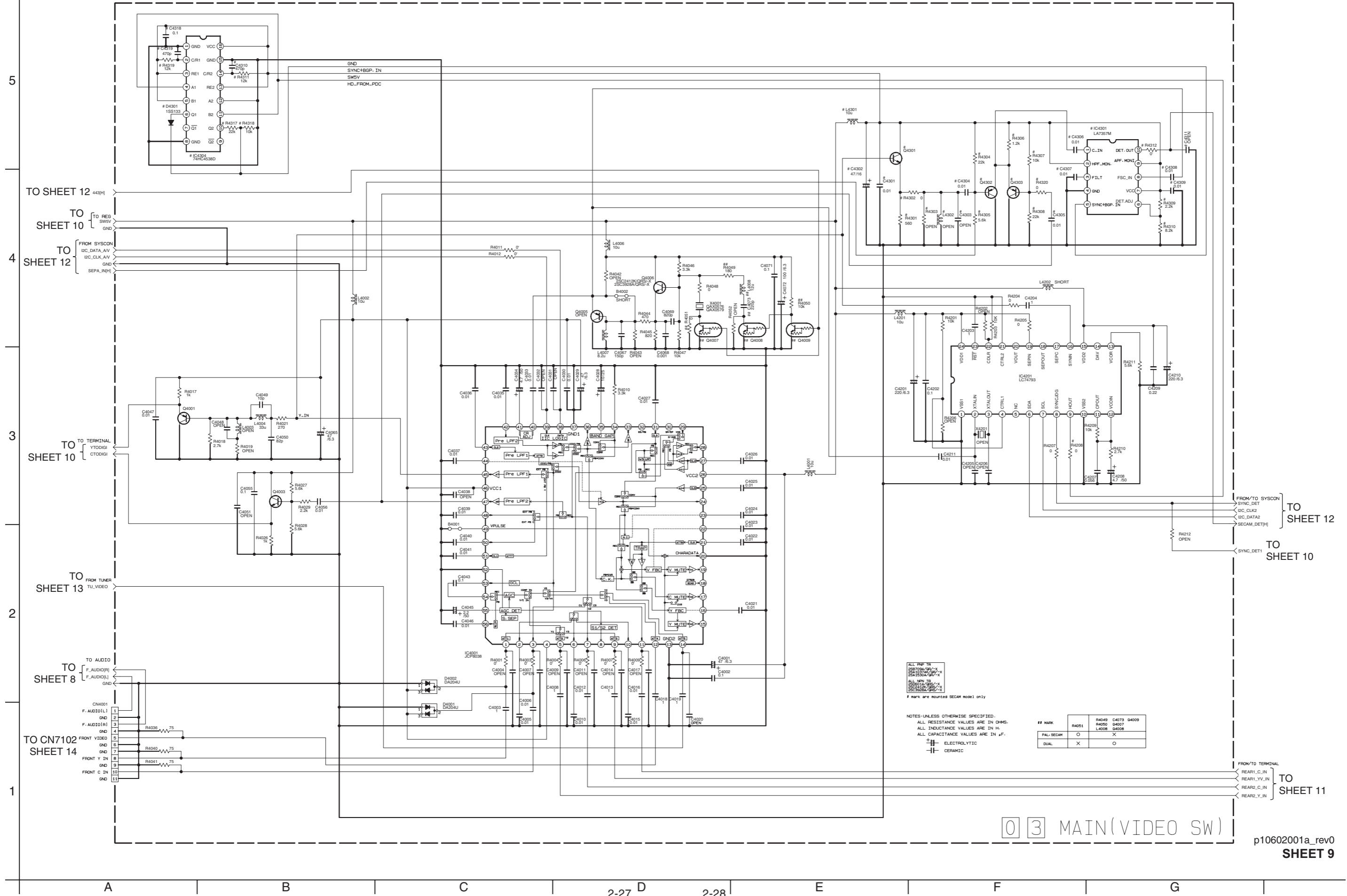


NOTES: UNLESS OTHERWISE SPECIFIED.  
 ALL RESISTANCE VALUES ARE IN OHMS.  
 ALL INDUCTANCE VALUES ARE IN H.  
 ALL CAPACITANCE VALUES ARE IN uF.

ELECTROLYTIC  
 CERAMIC  
 MYLER  
 NON POLAR

TO SHEET 11  
 TO SHEET 10

# Audio/Video signal input control section



ALL PARTS ARE SHOWN IN THE ORIGINAL DRAWING. ALL NEW PARTS ARE SHOWN IN THE ORIGINAL DRAWING. \* MARK ARE MOUNTED SECAM MODEL ONLY

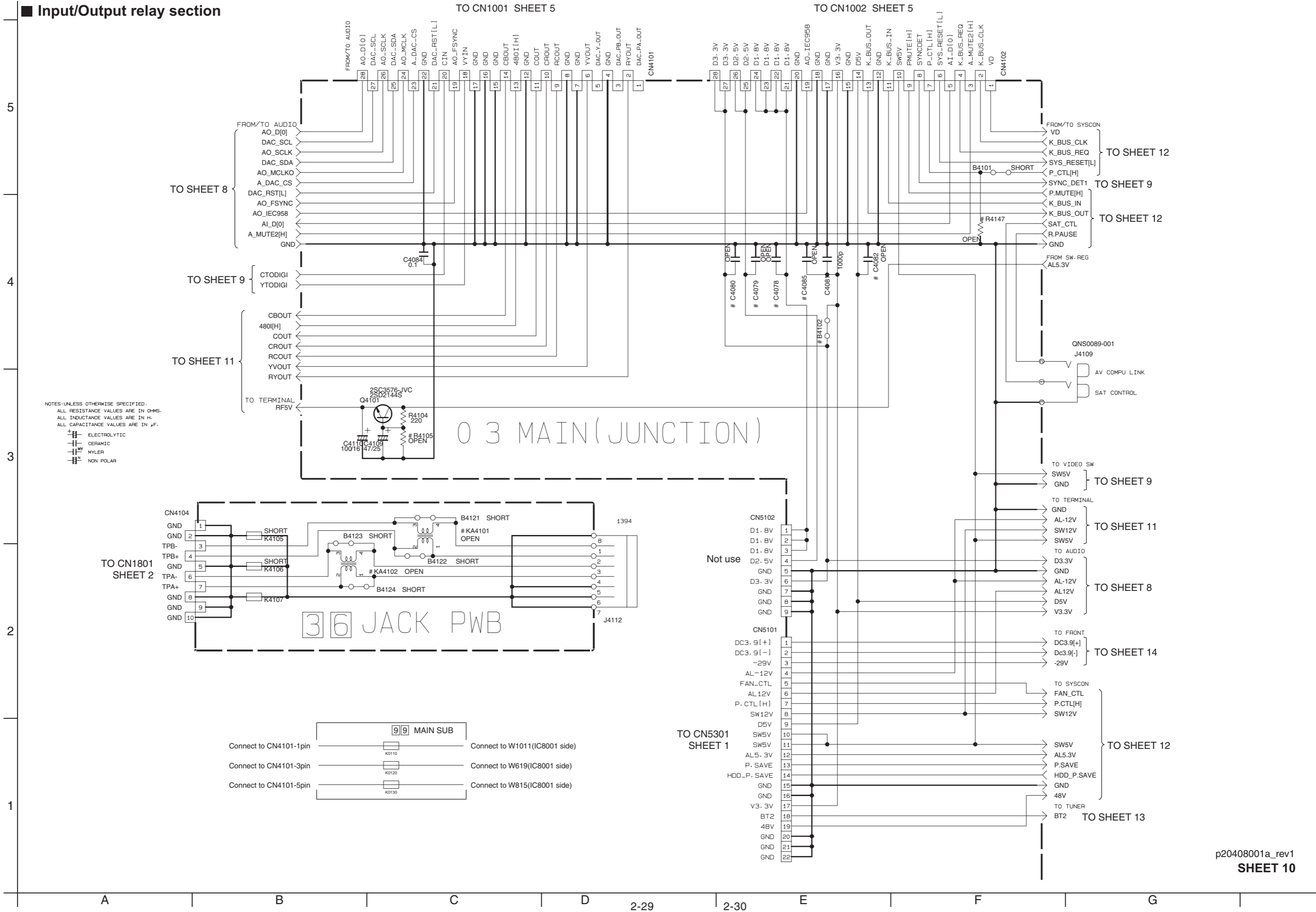
NOTES-UNLESS OTHERWISE SPECIFIED:  
 ALL RESISTANCE VALUES ARE IN OHMS.  
 ALL INDUCTANCE VALUES ARE IN H.  
 ALL CAPACITANCE VALUES ARE IN μF.

## MARK	R4051	R4049	C4073	Q4009
PAL-SECAM	O	X	X	X
DUAL	X	X	O	O

03 MAIN(VIDEO SW)

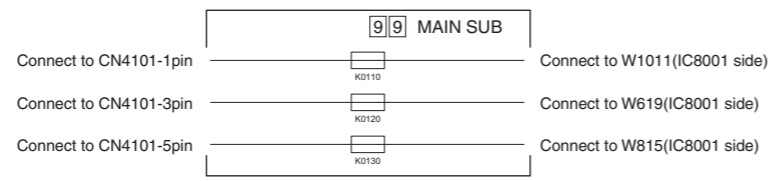


Input/Output relay section



NOTES: UNLESS OTHERWISE SPECIFIED.  
 ALL RESISTANCE VALUES ARE IN OHMS.  
 ALL INDUCTANCE VALUES ARE IN H.  
 ALL CAPACITANCE VALUES ARE IN μF.

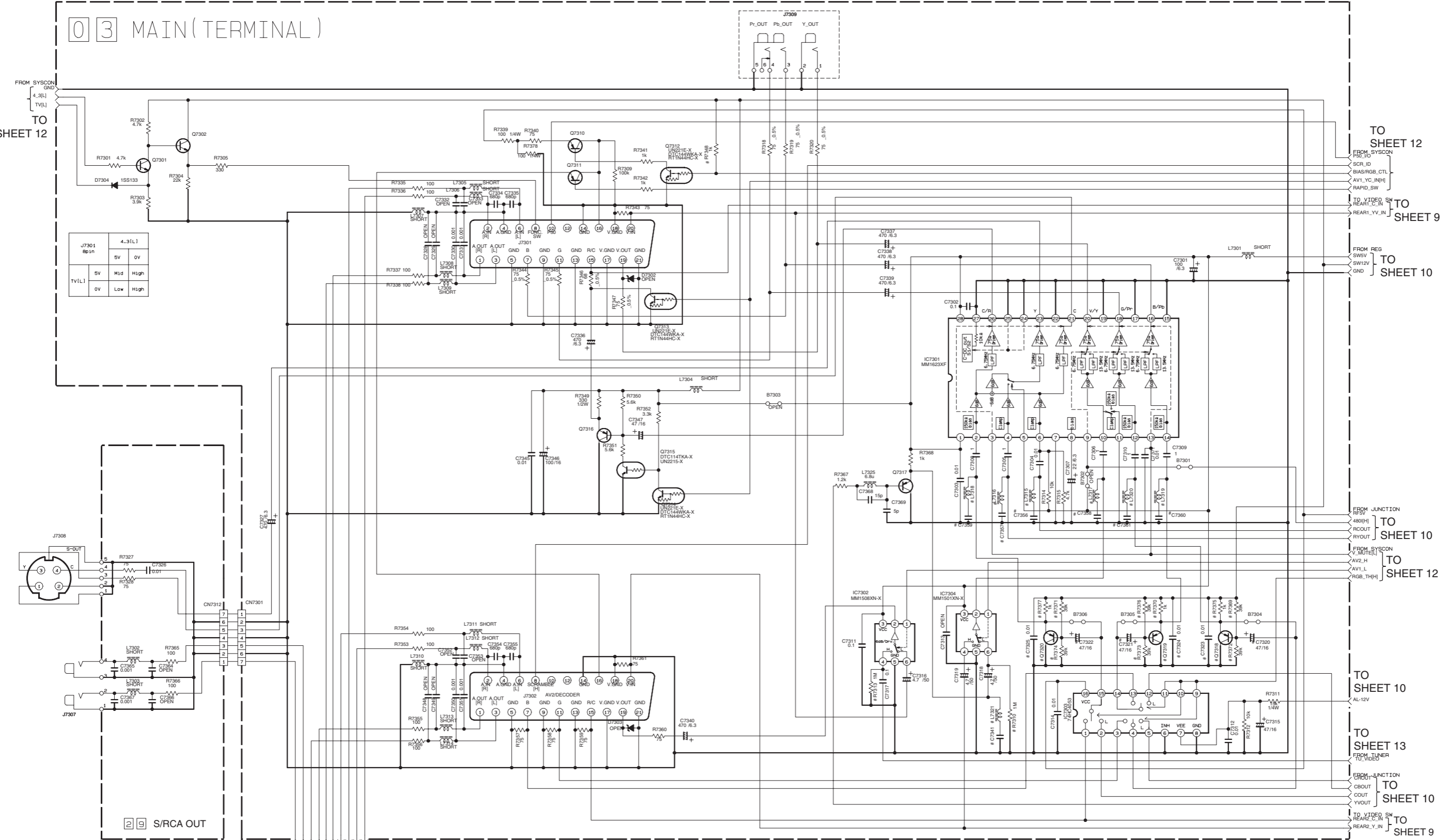
ELECTROLYTIC  
 CERAMIC  
 MYLAR  
 NON POLAR



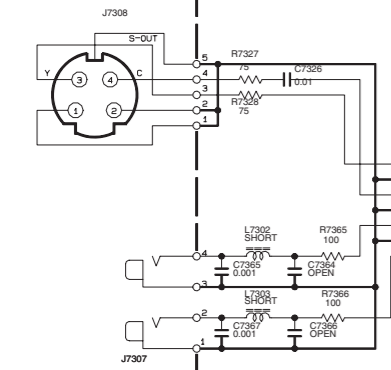
Input/Output terminal section

5  
4  
3  
2  
1

0 3 MAIN (TERMINAL)



J7301	SpIn	4.3(L)
	5V	Mid
	0V	Low
		High



2 9 S/RCA OUT

FROM/TO AUDIO  
AUDIO OUT(L)  
DEC. OUT(L)  
LINE. OUT(L)  
AUDIO IN(L)  
AUDIO IN(R)  
AUDIO IN(P)

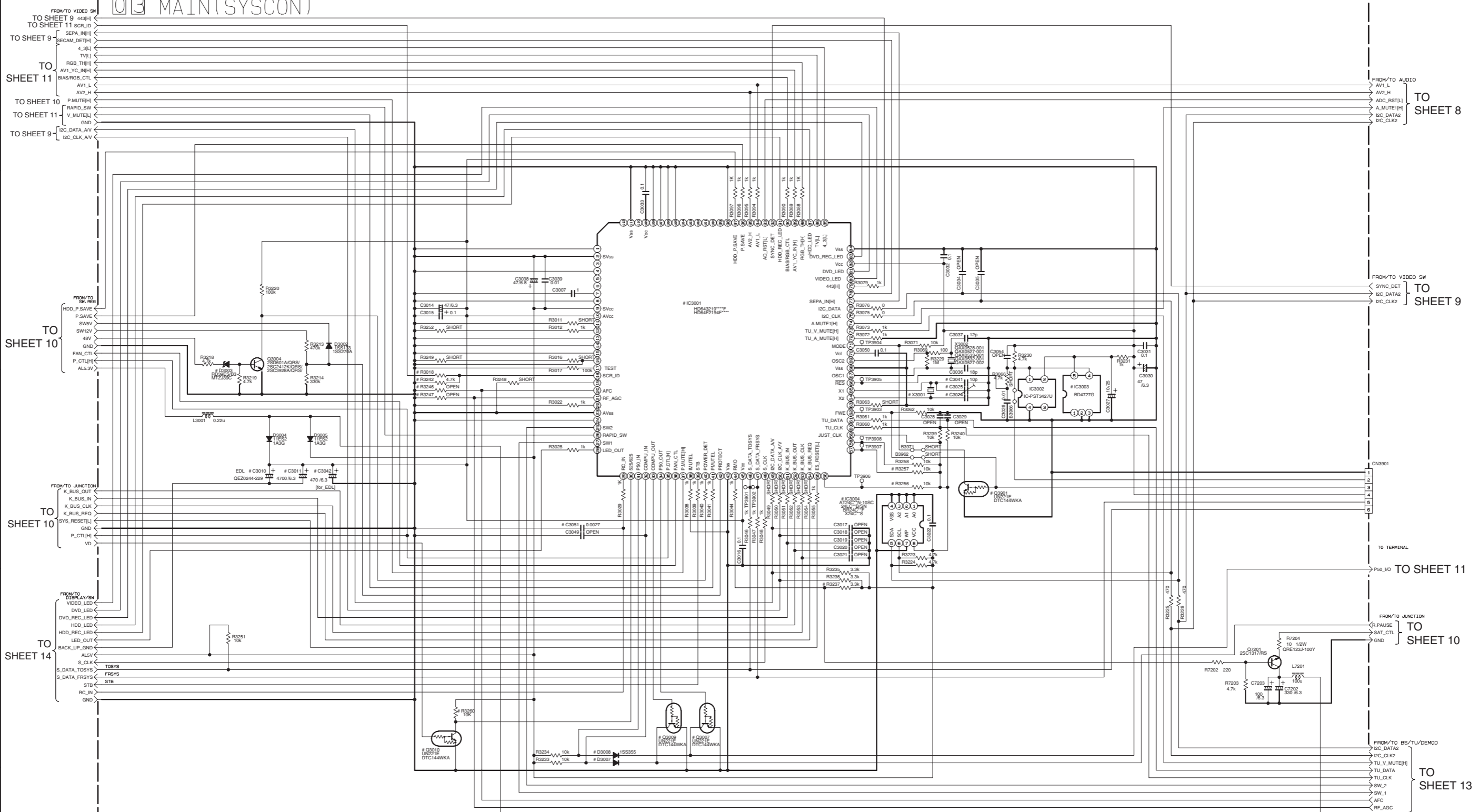
ALL PARTS  
UNLESS OTHERWISE SPECIFIED.  
ALL RESISTANCE VALUES ARE IN OHMS.  
ALL INDUCTANCE VALUES ARE IN H.  
ALL CAPACITANCE VALUES ARE IN μF.  
# MARK ARE NOT MOUNTED.

NOTES: UNLESS OTHERWISE SPECIFIED.  
ALL RESISTANCE VALUES ARE IN OHMS.  
ALL INDUCTANCE VALUES ARE IN H.  
ALL CAPACITANCE VALUES ARE IN μF.  
ELECTROLYTIC  
CERAMIC

A B C D E F G

System controller section

03 MAIN(SYSCON)



NOTES: UNLESS OTHERWISE SPECIFIED:  
 ALL RESISTANCE VALUES ARE IN OHMS.  
 ALL INDUCTANCE VALUES ARE IN H.  
 ALL CAPACITANCE VALUES ARE IN μF.

- E ELECTROLYTIC
- C CERAMIC
- M MYLAR
- N NON POLAR

■ Tuner section

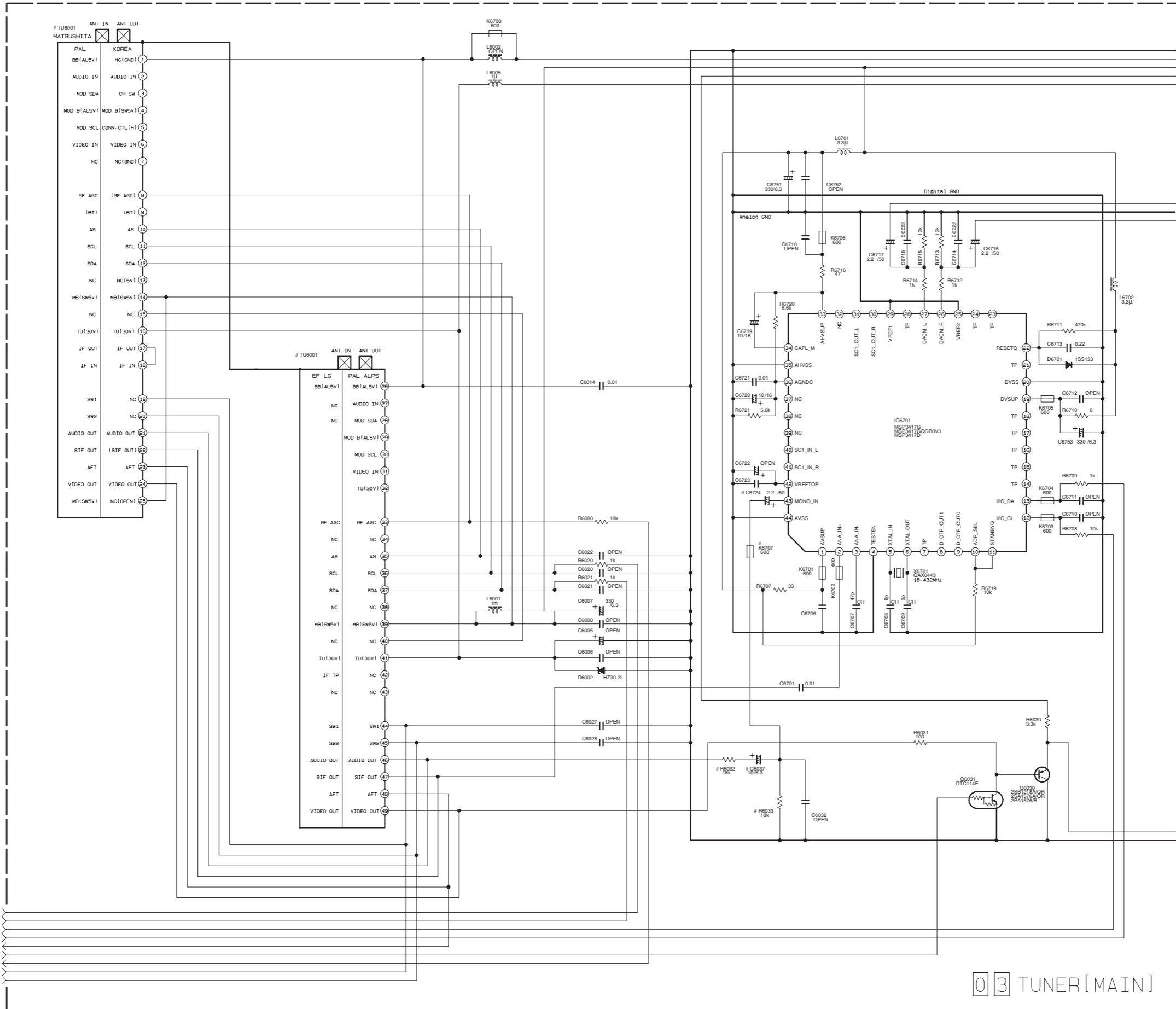
5

4

3

2

1



FROM TERMINAL  
GND  
RF5V  
SW5V  
SW12V  
BT2

TO SHEET 10

FROM/TO  
AUDIO  
TU\_AUDIO(L)  
GND  
TU\_AUDIO(R)

TO SHEET 8

# DIFFERENCE TABLE

	EU/EX		EF
	M10	M20/30	M10-M20/30
TU6001	PAL LG GAU0323	PAL ALPS GAU0261	EF LG GAU0299
R6032-R6033- C6037, C6724- K6707	X	X	○

FROM/TO  
VIDEO  
TU\_VIDEO  
GND

TO SHEET 9

NOTES: UNLESS OTHERWISE SPECIFIED,  
ALL RESISTANCE VALUES ARE IN OHMS.  
ALL INDUCTANCE VALUES ARE IN H.  
ALL CAPACITANCE VALUES ARE IN μF.  
ELECTROLYTIC  
CERAMIC  
MYLER  
NON POLAR

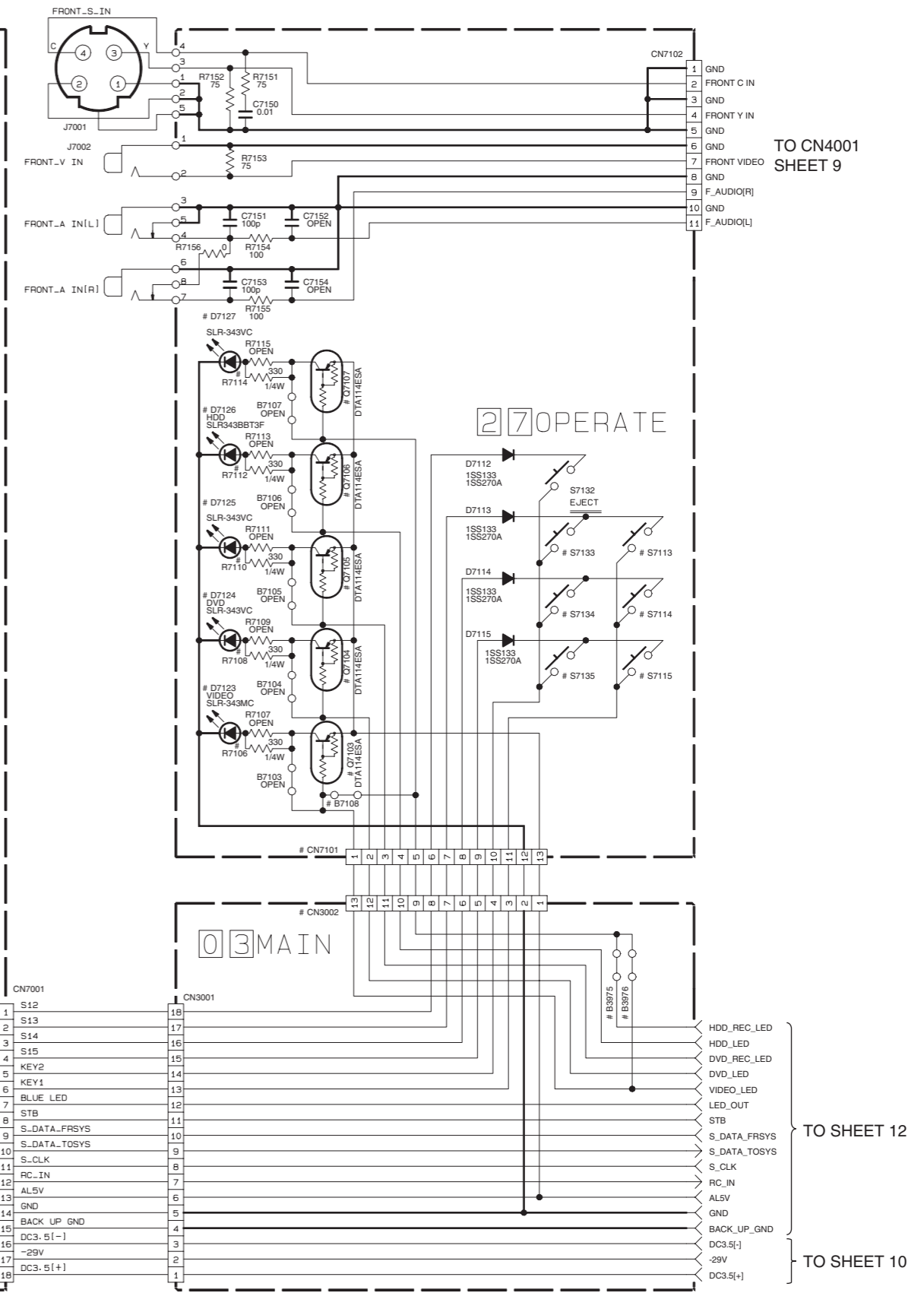
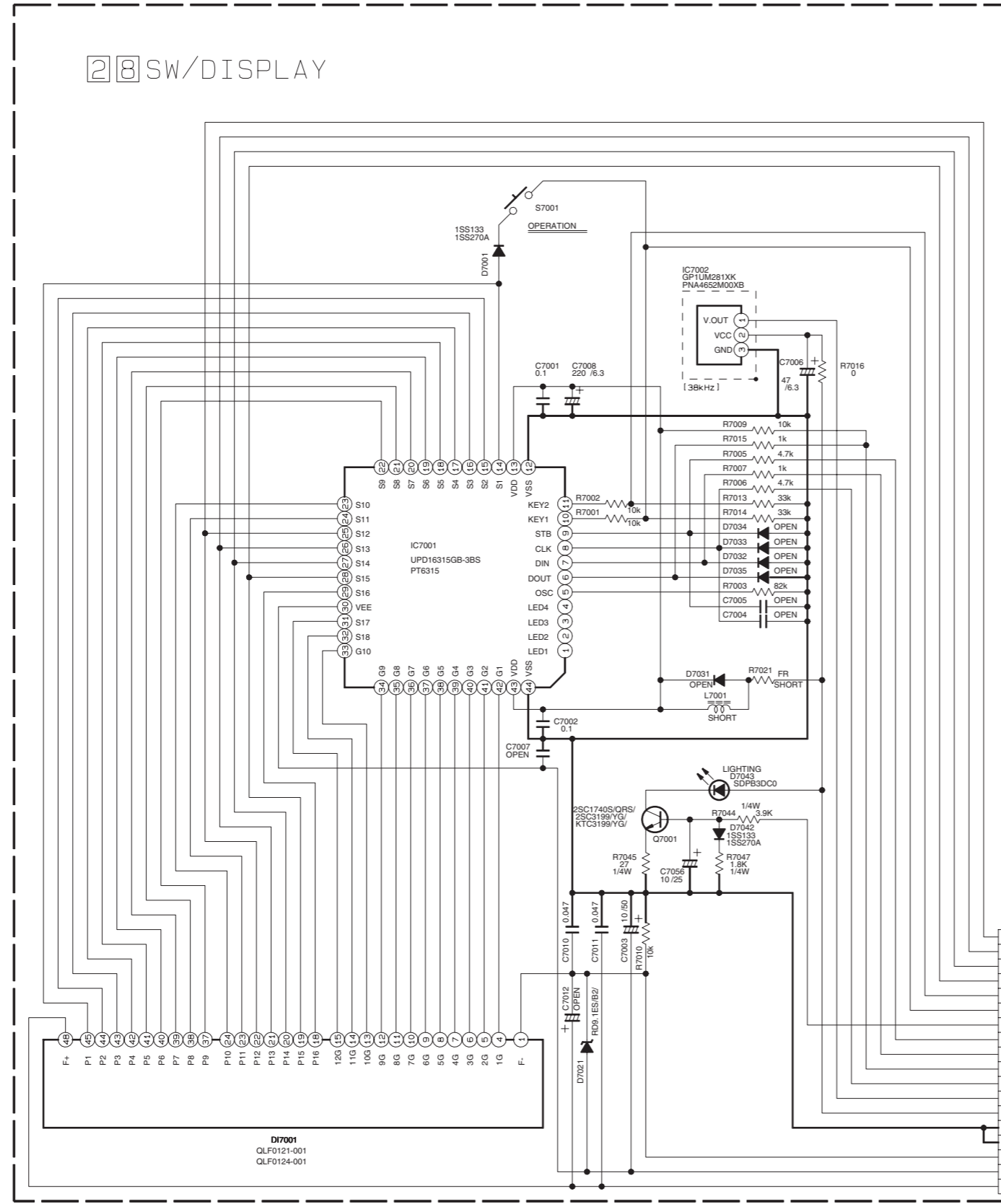
FROM/TO  
SYSCON  
TU\_CLK  
TU\_DATA  
I2C\_CLK2  
I2C\_DATA2  
AFC  
TU\_V\_MUTE[M]  
RF\_AGC  
SW\_1  
SW\_2

TO SHEET 12

03 TUNER[MAIN]

p10630001a\_rev0  
SHEET 13

FL Display and operation switch section



TO CN4001 SHEET 9

TO SHEET 12

TO SHEET 10

DIFFERENCE TABLE

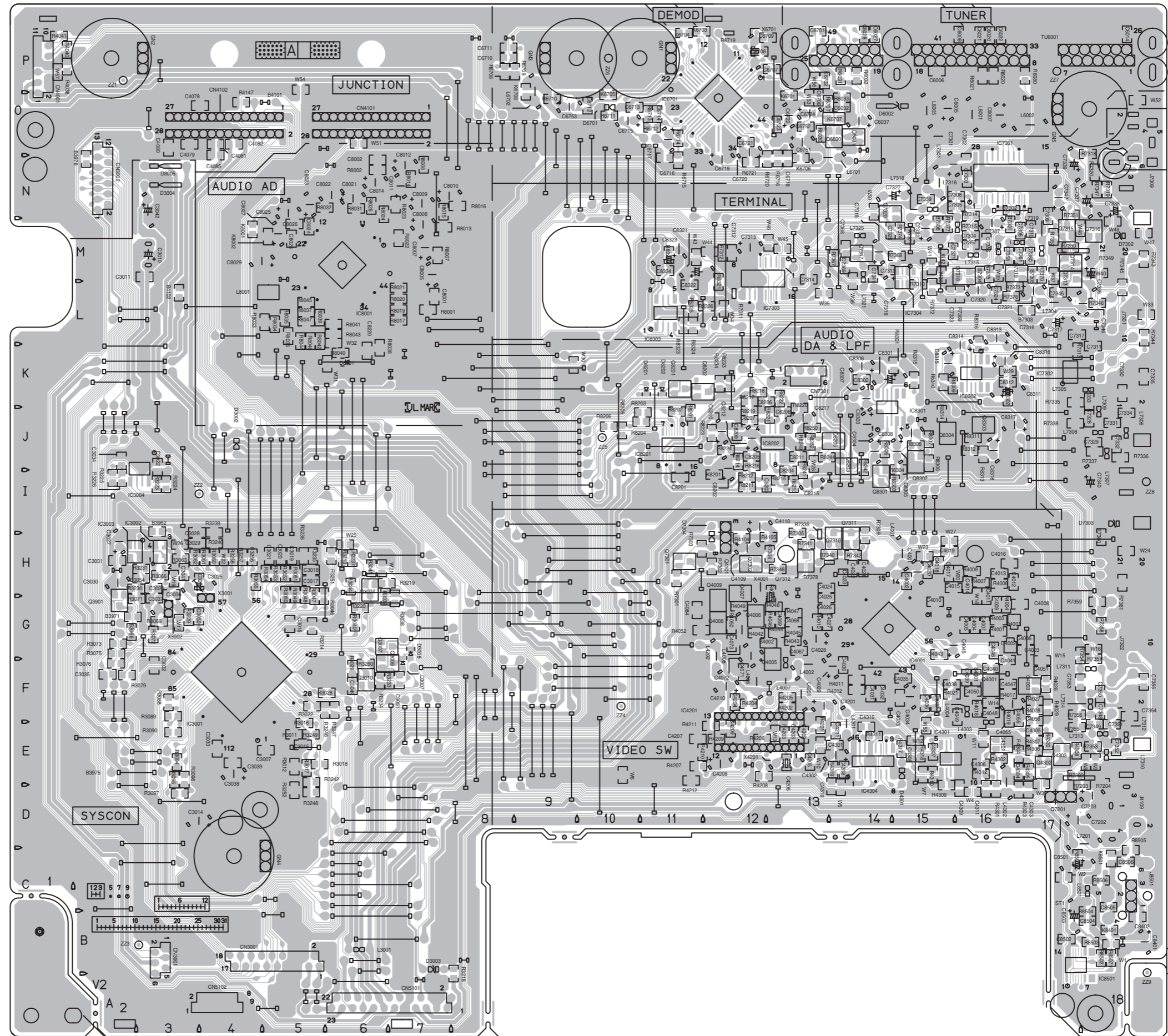
REV	DESCRIPTION	DATE	BY	CHK
M10	REC REC MODE PAUSE X STOP PLAY X			
M420/M430	DVD HDD REC STOP PLAY PAUSE X			

NOTES: UNLESS OTHERWISE SPECIFIED.  
 ALL RESISTANCE VALUES ARE IN OHMS.  
 ALL INDUCTANCE VALUES ARE IN H.  
 ALL CAPACITANCE VALUES ARE IN µF.  
 + ELECTROLYTIC  
 - CERAMIC  
 - MYLER  
 - NON POLAR

LAST No.	VACANT No.
R 7047 7156	7004-7008-7011-7012-7017-7020-7022-7043-7046
C 7056 7154	7009-7013-7055
D 7043 7127	7002-7020-7022-7030-7036-7041
Q 7001 7107	7101-7102
L 7001	
IC 7002	
DI 7001	
S 7001 7135	7101-7112-7116-7131
CN 7001 7102	

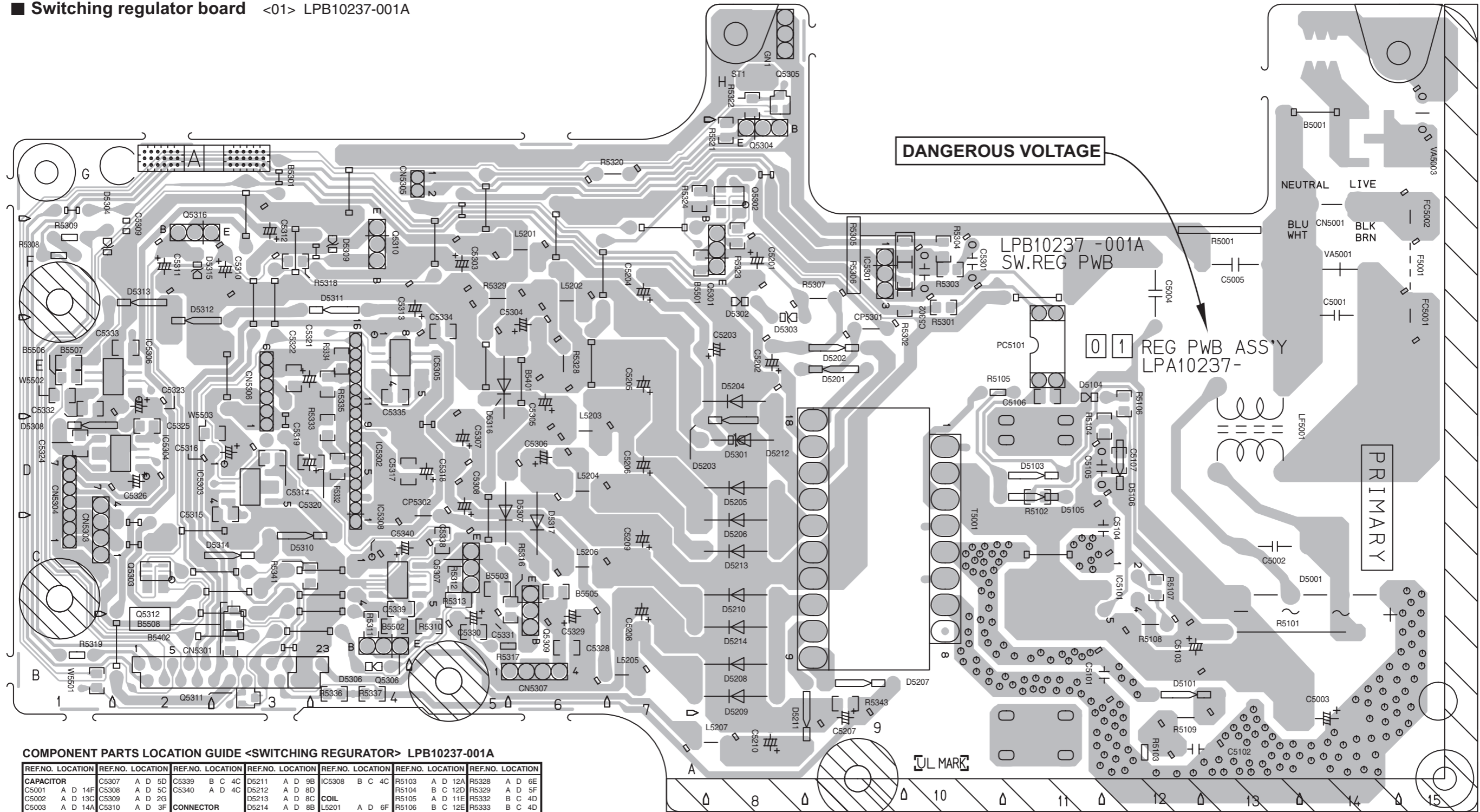
# Printed circuit boards

■ Main board <03> LPB10239-001C





Switching regulator board <01> LPB10237-001A

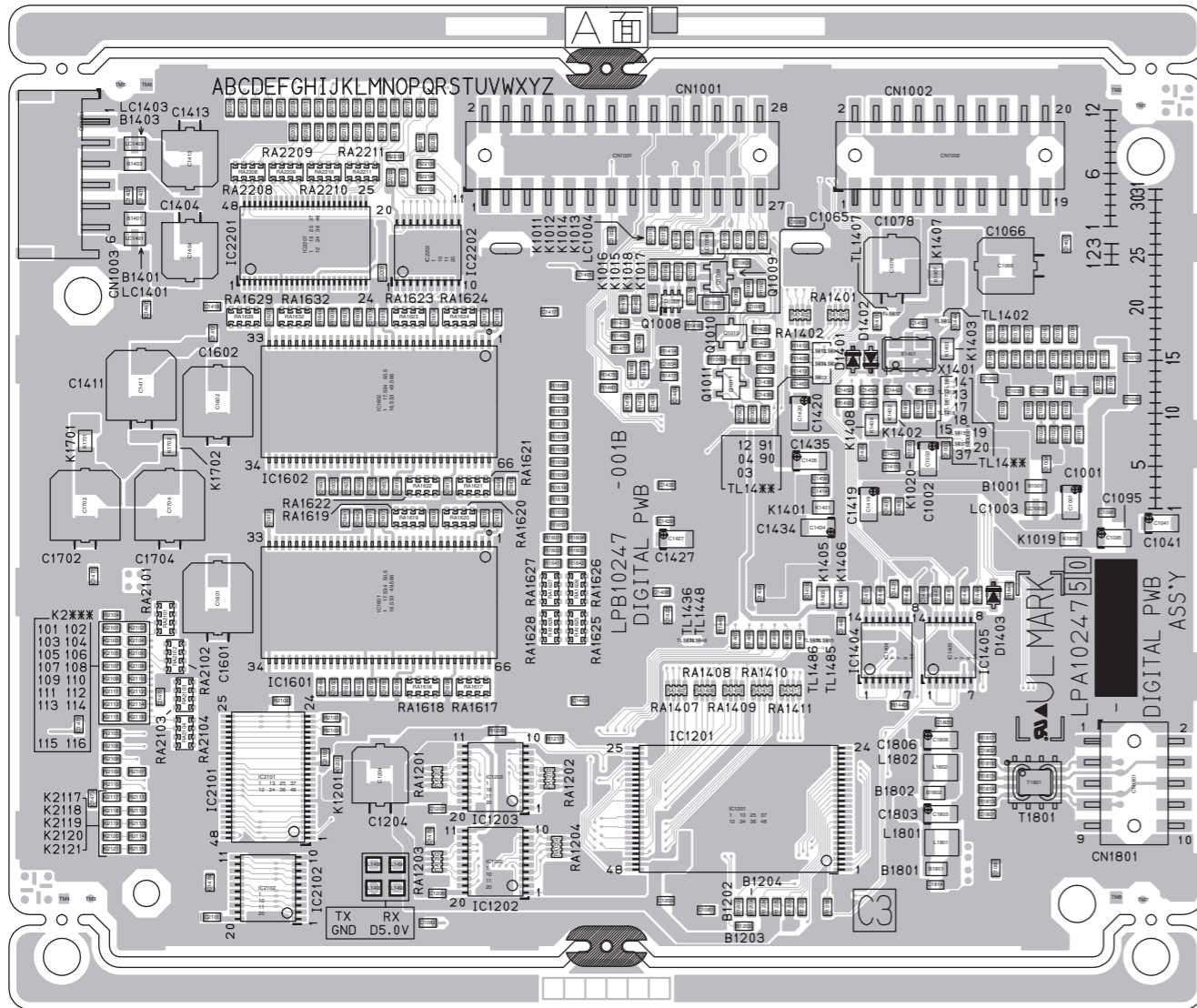


COMPONENT PARTS LOCATION GUIDE <SWITCHING REGURATOR> LPB10237-001A

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION			
<b>CAPACITOR</b>	C5001	A D 14F	C5307	A D 5D	C5339	B C 4C	D5211	A D 9B	IC5308	B C 4C	R5103	A D 12A	R5328	A D 6E		
	C5002	A D 13C	C5308	A D 5C	C5340	A D 4C	D5212	A D 8D			R5104	B C 12D	R5329	A D 5F		
	C5003	A D 14A	C5309	A D 2G			D5213	A D 8C	<b>COIL</b>	L5201	A D 6F	R5105	A D 11E	R5332	B C 4D	
	C5004	A D 12E	C5310	A D 3F	<b>CONNECTOR</b>	CN5001	A D 14G	D5214	A D 8B	L5202	A D 6F	R5106	B C 12E	R5333	B C 4D	
	C5005	A D 13F	C5311	A D 2F		CN5001	A D 14G	D5301	A D 8D	L5203	A D 6F	R5107	B C 12C	R5334	B C 4E	
	C5101	A D 12B	C5312	A D 3F		CN5301	A D 2B	D5302	A D 8F	L5204	A D 6D	R5108	A D 12B	R5335	B C 4E	
	C5102	A D 12A	C5313	A D 5E		CN5303	A D 1C	D5303	A D 9F	L5205	A D 7B	R5109	A D 13A	R5336	B C 4B	
	C5103	A D 12C	C5314	B C 3D		CN5304	A D 1C	D5304	A D 1F	L5206	A D 6C	R5301	B C 10F	R5337	B C 4B	
	C5104	A D 12C	C5315	B C 3D		CN5305	A D 5G	D5306	A D 4B	L5207	A D 8A	R5302	B C 10F	R5341	B C 4C	
	C5105	A D 12C	C5316	A D 3D		CN5306	A D 3D	D5307	A D 5D			R5303	B C 10F	R5343	B C 9B	
	C5106	B C 11E	C5317	B C 4D		CN5307	A D 6B	D5308	A D 2D	<b>TRANSISTOR</b>	Q5301	A D 8F	R5304	B C 10F		
	C5107	B C 12D	C5318	A D 5D				D5309	A D 4F		Q5301	A D 8F	R5305	B C 10F	<b>OTHER</b>	
	C5201	A D 8F	C5319	A D 3D		D5001	A D 14C	D5310	A D 3C		Q5302	B C 2C	R5306	B C 10F	CP5301	A D 9E
	C5202	A D 8E	C5320	B C 4D		D5101	A D 12B	D5311	A D 4F		Q5303	B C 2C	R5307	A D 8F	CP5302	A D 4C
	C5203	A D 7E	C5321	A D 3E		D5102	A D 10D	D5312	A D 3E		Q5304	A D 8G	R5308	A D 1F	FC5001	A D 15G
	C5204	A D 7F	C5322	B C 3E		D5103	A D 2F	D5313	A D 2F		Q5305	B C 8H	R5309	A D 1F	FC5002	A D 15E
	C5205	A D 7E	C5323	A D 2E		D5104	A D 2C	D5314	A D 2C		Q5306	A D 4B	R5310	B C 5B	FC5003	A D 15G
	C5206	A D 7D	C5324	B C 1D		D5105	A D 10D	D5315	A D 2F		Q5307	A D 5C	R5311	B C 4B	GN1	A D 8H
	C5207	A D 9A	C5325	B C 2D		D5106	A D 10D	D5316	A D 5E		Q5308	A D 5C	R5312	B C 5C	LF5001	A D 13E
	C5208	A D 7B	C5326	A D 2D		D5107	A D 12D	D5317	A D 6D		Q5309	A D 6C	R5313	B C 5C	PC049	B C 16A
	C5209	A D 7C	C5327	B C 6B		D5201	A D 9E				Q5310	A D 4F	R5314	B C 6C	PC5101	A D 11F
	C5210	A D 7C	C5328	B C 6B		D5202	A D 8E				Q5311	B C 3B	R5315	B C 6C	SG5001	B C 14G
	C5211	A D 8A	C5329	A D 6B		D5203	A D 8D	<b>IC</b>	IC5101	A D 12C	Q5312	B C 3B	R5316	A D 6B	T5001	A D 10D
	C5212	A D 10F	C5330	B C 5B		D5204	A D 8E		IC5301	A D 9F	Q5313	B C 3B	R5317	A D 6B	VA5001	A D 14F
	C5301	A D 10F	C5331	A D 5B		D5205	A D 8D		IC5302	A D 4C	Q5316	A D 3F	R5318	B C 3F	VA5003	A D 15G
	C5302	A D 10F	C5332	B C 1E		D5206	A D 8C	<b>RESISTOR</b>	IC5302	A D 4C			R5319	A D 1B		
	C5303	A D 5F	C5333	B C 2E		D5207	A D 9B		IC5303	B C 3D			R5320	A D 6G		
	C5304	A D 5E	C5334	B C 5E		D5208	A D 8B		IC5304	B C 2D			R5321	B C 8G		
	C5305	A D 6D	C5335	B C 4E		D5209	A D 8B		IC5305	B C 4E			R5322	B C 8H		
	C5306	A D 6D	C5338	B C 5C		D5210	A D 8C		IC5306	B C 2E			R5323	B C 8F		
													R5324	B C 7G		

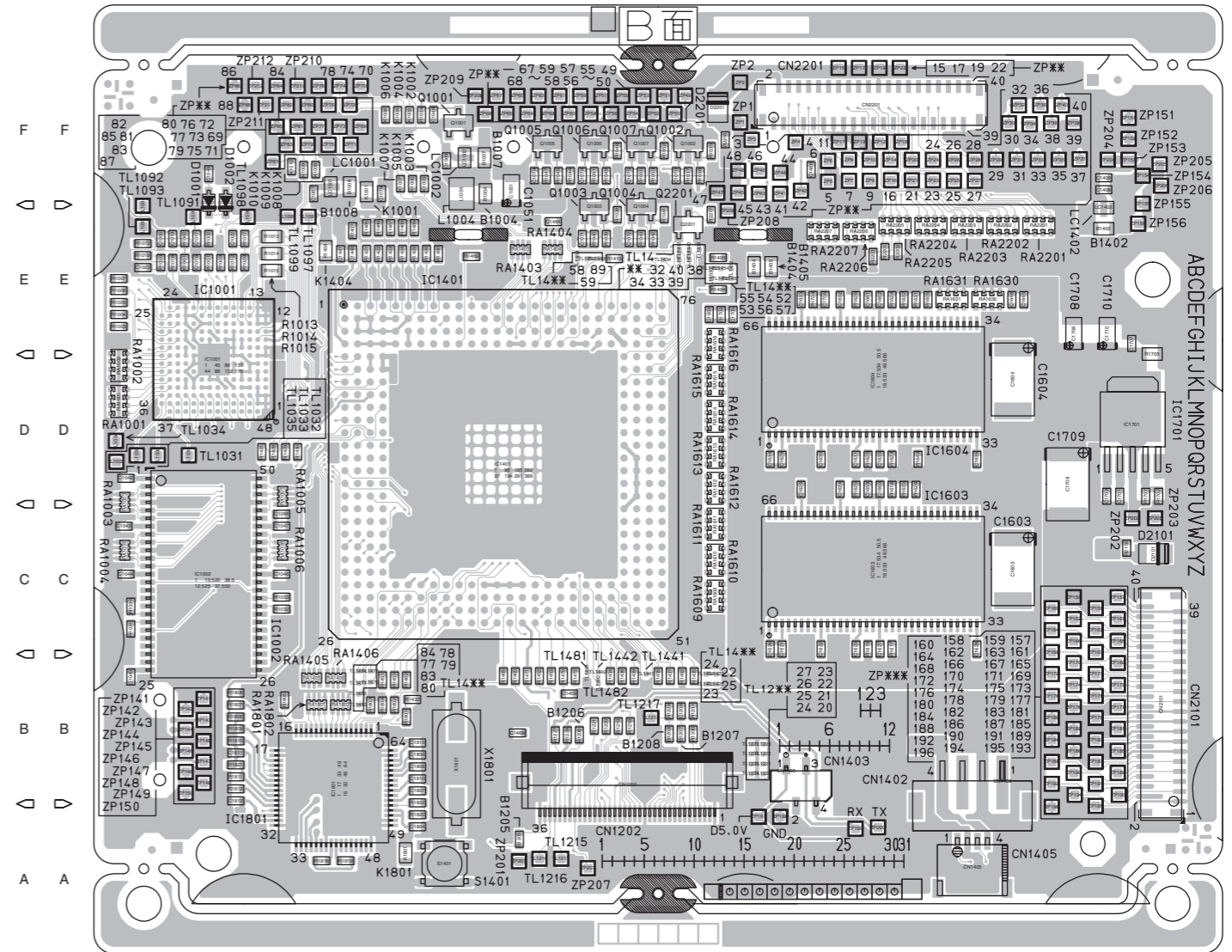


Forward side



7 6 5 4 3 2 1

Reverse side



1 2 3 4 5 6 7

COMPONENT PARTS LOCATION GUIDE <DIGITAL BOARD> LPB10247-001B

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
<b>CAPACITOR</b>													
C1001	A C 1D	C1450	A C 2E	CN1405	B C 6A	R1071	A C 2E	R1622	A C 6C	RA1620	A C 5D	TL1031	B C 1D
C1002	A C 2D	C1452	A C 3D	CN1801	A C 1B	R1072	B C 1E	R1623	B C 6E	RA1621	A C 5D	TL1032	B C 1D
C1003	A C 2D	C1453	A C 3D	CN2101	B C 8B	R1216	A C 3A	R1624	B C 6E	RA1622	A C 5D	TL1033	B C 1D
C1004	A C 2D	C1454	A C 3D	CN2201	B C 6F	R1217	A C 5B	R1625	B C 6E	RA1623	A C 6E	TL1034	B C 1D
C1005	A C 1E	C1455	A C 3D			R1218	B C 4B	R1626	B C 6E	RA1624	A C 6E	TL1035	B C 1E
C1006	A C 1E	C1456	A C 3D			R1219	B C 4B	R1627	A C 6D	RA1625	A C 6E	TL1091	B C 1E
C1007	A C 1E	C1457	A C 3C			R1220	B C 4B	R1628	A C 6D	RA1626	A C 6E	TL1092	B C 1E
C1008	A C 1E	C1458	A C 3C			R1221	B C 4B	R1629	B C 6D	RA1627	A C 6E	TL1093	B C 1E
C1009	A C 1E	C1459	B C 4B			R1222	A C 3A	R1630	B C 6E	RA1628	A C 6E	TL1097	B C 2E
C1010	A C 1E	C1460	B C 4B			R1223	A C 3A	R1631	B C 6E	RA1629	A C 7E	TL1098	B C 2E
C1011	A C 1E	C1461	A C 1E			R1224	A C 3A	R1632	B C 6E	RA1630	B C 6E	TL1099	B C 2E
C1012	A C 1E	C1462	A C 3E			R1225	A C 3A	R1641	A C 5C	RA1631	B C 6E	TL1215	B C 4A
C1013	A C 1D	C1463	A C 3D			R1226	A C 5B	R1642	A C 4C	RA1632	A C 6E	TL1216	B C 3A
C1014	A C 1E	C1464	B C 4E			R1227	B C 4B	R1643	B C 6D	RA1801	B C 2B	TL1217	B C 4B
C1015	A C 1E	C1465	B C 4E			R1228	B C 4B	R1644	A C 6E	RA1802	B C 2B	TL1220	B C 5B
C1016	B C 1E	C1466	B C 5F			R1229	B C 4B	R1653	A C 5D	RA2101	A C 7C	TL1221	B C 5B
C1017	B C 1E	C1467	A C 7E			R1230	B C 5B	R1654	A C 5D	RA2102	A C 7C	TL1222	B C 5B
C1018	B C 1E	C1468	B C 3B			R1231	B C 5B	R1655	A C 5D	RA2103	A C 7B	TL1223	B C 5B
C1019	B C 1E	C1469	A C 4B			R1401	B C 2E	R1656	A C 5D	RA2104	A C 7B	TL1224	B C 5B
C1020	B C 1E	C1470	A C 7B			R1402	A C 3E	R1657	A C 5D	RA2201	B C 7E	TL1225	B C 5B
C1021	A C 1D	C1471	A C 8C			R1403	A C 2D	R1658	A C 5D	RA2202	B C 7E	TL1226	B C 5B
C1022	A C 1D	C1472	A C 8B			R1404	A C 3E	R1659	A C 5D	RA2203	B C 6E	TL1227	B C 5B
C1023	A C 1D	C1473	A C 8B			R1405	A C 3E	R1660	A C 5D	RA2204	B C 6E	TL1402	A C 2E
C1024	A C 1D	C1474	A C 7A			R1411	A C 3E	R1701	B C 8D	RA2205	B C 6E	TL1403	A C 3D
C1025	A C 2D	C1475	A C 5B			R1412	A C 3E	R1702	B C 8D	RA2206	B C 6E	TL1404	A C 3E
C1026	A C 2D	C1476	A C 5B			R1413	A C 2D	R1703	B C 5E	RA2207	B C 5E	TL1407	A C 2E
C1027	A C 2D	C1477	A C 5B			R1414	A C 4E	R1704	B C 5E	RA2208	A C 7F	TL1412	A C 3E
C1028	A C 2D	C1478	A C 5B			R1415	B C 4E	R1705	B C 8E	RA2209	A C 6F	TL1413	A C 2D
C1029	A C 2D	C1479	A C 5B			R1416	A C 4E	R1801	B C 3B	RA2210	A C 6F	TL1414	A C 2D
C1030	A C 1D	C1480	A C 8B			R1417	A C 4D	R1802	B C 3B	RA2211	A C 6F	TL1415	A C 2D
C1031	A C 1D	C1481	A C 8B			R1418	A C 3E	R1803	B C 2B			TL1417	A C 2D
C1032	A C 1D	C1482	A C 8B			R1419	A C 3E	R1804	B C 2B	<b>OTHER</b>		TL1418	A C 2D
C1033	A C 2D	C1483	A C 7A			R1420	A C 3E	R1805	B C 2B	LC1001	B C 2F	TL1419	A C 2D
C1034	A C 1D	C1484	A C 5B			R1421	B C 2E	R1806	B C 1B	LC1002	B C 3F	TL1420	A C 2D
C1035	A C 2D	C1485	A C 6C			R1422	B C 2E	R1807	B C 1B	LC1003	A C 2D	TL1422	B C 5B
C1036	A C 2D	C1486	A C 6C			R1423	B C 2E	R1808	B C 1B	LC1004	A C 4E	TL1423	B C 5B
C1037	A C 2D	C1487	A C 6C			R1424	B C 3E	R1809	B C 1B	LC1401	A C 7E	TL1424	B C 5B
C1038	A C 1D	C1488	B C 7C			R1425	B C 3E	R1810	B C 1B	LC1402	B C 7E	TL1425	B C 5B
C1039	A C 2D	C1489	B C 7C			R1426	B C 3E	R1811	B C 1B	LC1403	A C 7F	TL1432	B C 4E
C1040	A C 2D	C1490	B C 7C			R1427	A C 2D	R1812	B C 1B	K1001	B C 2F	TL1433	B C 4E
C1041	A C 2D	C1491	B C 7C			R1428	B C 2D	R1813	A C 2B	K1002	B C 3F	TL1434	B C 4E
C1042	B C 1D	C1492	A C 6D			R1429	B C 2D	R1814	A C 2B	K1003	B C 3F	TL1436	A C 4C
C1043	B C 1C	C1493	A C 6D			R1430	B C 2D	R1815	A C 2B	K1004	B C 3F	TL1437	A C 2D
C1044	B C 1C	C1494	A C 6D			R1431	B C 2D	R1816	A C 2B	K1005	B C 3F	TL1438	B C 5E
C1045	B C 1C	C1495	A C 6D			R1432	B C 3B	R1817	A C 2B	K1006	B C 2F	TL1439	B C 4E
C1046	B C 2C	C1496	A C 6D			R1433	B C 4B	R1818	B C 2A	K1007	B C 3F	TL1440	B C 4E
C1047	B C 2C	C1497	A C 6D			R1434	B C 4B	R1819	B C 2A	K1008	B C 2F	TL1441	B C 4B
C1048	B C 2C	C1498	A C 6D			R1435	B C 4B	R1820	B C 3A	K1009	B C 2F	TL1442	B C 4B
C1049	B C 2C	C1499	A C 6D			R1436	B C 4B	R1821	B C 1B	K1010	B C 2F	TL1448	A C 4C
C1050	B C 2C	C1500	A C 6D			R1437	B C 4B	R1822	B C 3B	K1011	A C 4E	TL1452	B C 5E
C1051	B C 2C	C1501	A C 6D			R1438	B C 4B	R1823	B C 1B	K1012	A C 4E	TL1453	B C 5E
C1052	B C 2C	C1502	A C 6D			R1439	B C 4B	R1824	B C 1B	K1013	A C 4E	TL1454	B C 5E
C1053	B C 2C	C1503	A C 6D			R1440	A C 4C	R2101	A C 6B	K1014	A C 4E	TL1455	B C 5E
C1054	B C 2C	C1504	A C 6D			R1441	A C 2C	R2102	A C 6B	K1015	A C 3E	TL1456	B C 5E
C1055	B C 2C	C1505	A C 6D			R1442	A C 2C	R2103	A C 6B	K1016	A C 4E	TL1457	B C 5E
C1056	B C 2C	C1506	A C 6D			R1443	A C 2C	R2104	A C 7C	K1017	A C 3E	TL1458	B C 4E
C1057	B C 2C	C1507	A C 6D			R1444	A C 2C	R2105	A C 7B	K1018	A C 3E	TL1459	B C 4E
C1058	B C 2C	C1508	A C 6D			R1445	A C 2C	R2106	A C 7B	K1019	A C 1C	TL1477	B C 2B
C1059	B C 2C	C1509	A C 6D			R1446	A C 2C	R2107	A C 7B	K1020	A C 2D	TL1478	B C 2B
C1060	B C 2C	C1510	A C 6D			R1447	A C 2C	R2108	A C 7B	K1201	A C 6B	TL1479	B C 2B
C1061	B C 2C	C1511	A C 6D			R1448	A C 2B	R2109	A C 7B	K1202	A C 3D	TL1480	B C 2B
C1062	B C 2C	C1512	A C 6D			R1449	A C 2B	R2110	A C 7B	K1203	A C 3D	TL1481	B C 4B
C1063	B C 2C	C1513	A C 6D			R1450	B C 3B	R2111	A C 7B	K1401	A C 2E	TL1482	B C 4B
C1064	B C 2C	C1514	A C 6D			R1451	B C 3B	R2112	A C 7B	K1402	A C 2D	TL1481	B C 4B
C1065	B C 2C	C1515	A C 6D			R1452	B C 3B	R2113	A C 7B	K1403	A C 2E	TL1482	B C 4B
C1066	B C 2C	C1516	A C 6D			R1453	A C 3C	R2114	A C 7B	K1404	B C 2E	TL1483	B C 2B
C1067	B C 2C	C1517	A C 6D			R1454	A C 3C	R2115	A C 7B	K1405	A C 3C	TL1484	B C 2B
C1068	B C 2C	C1518	A C 6D			R1455	A C 3C	R2116	B C 7C	K1406	A C 3C	TL1485	A C 3C
C1069	B C 2C	C1519	A C 6D			R1456	B C 3B	R2201	B C 6E	K1407	A C 2E	TL1486	A C 3C
C1070	B C 2C	C1520	A C 6D			R1457	B C 3B	R2202	B C 6E	K1408	A C 3D	TL1489	B C 4E
C1071	B C 2C	C1521	A C 6D			R1458	A C 3C	R2203	B C 6E	K1701	A C 8D	TL1490	A C 3E
C1072	B C 2C	C1522	A C 6D			R1459	A C 3C	R2204	A C 7F	K1702	A C 7D	TL1491	A C 3E
C1073	B C 2C	C1523	A C 6D			R1460	A C 3C	R2205	A C 6F	K1801	B C 3A	TL1492	A C 6A
C1074	B C 2C	C1524	A C 6D			R1461	B C 3B	R2206	A C 6F	K2101	A C 7C	TL1493	A C 6A
C1075	B C 2C	C1525	A C 6D			R1462	B C 3B	R2207	A C 6F	K2102	A C 7C	TL1494	A C 6A
C1076	B C 2C	C1526	A C 6D			R1463	B C 3B	R2208	A C 6F	K2103	A C 7C	TL1495	A C 6A
C1077	B C 2C	C1527	A C 6D			R1464	B C 3B	R2209	A C 6F	K2104	A C 7C	TM1	A C 1F
C1078	B C 2C	C1528	A C 6D			R1465	B C 3B	R2210	A C 6F	K2105	A C 7C	TM2	A C 1F
C1079	B C 2C	C1529	A C 6D			R1466	A C 3C	R2211	A C 6F	K2106	A C 7C	TM3	A C 8A
C1080	B C 2C	C1530	A C 6D			R1467	A C 3C	R2212	A C 6F	K2107	A C 7C	TM4	A C 8A
C1081	B C 2C	C1531	A C 6D			R1468	A C 3C	R2213	A C 5F	K2108	A C 7C	TM5	A C 7F
C1082	B C 2C	C1532	A C 6D			R1469	A C 3C	R2214	A C 5F	K2109	A C 7C	TM6	A C 7F
C1083	B C 2C	C1533	A C 6D			R1470	A C 3C	R2215	A C 5F	K2110	A C 7C	TM7	A C 1A
C1084	B C 2C	C1534	A C 6D			R1471	B C 4B	R2216	B C 5F	K2111	A C 7C	TM8	A C 1A
C1085	B C 2C	C1535	A C 6D			R1472	B C 4B	R2217	B C 5F	K2112	A C 7C	X1401	A C 2E
C1086	B C 2C	C1536	A C 6D			R1473	B C 4B	R2218	B C 5F	K2113	A C 7B	X1801	B C 3B
C1087	B C 2C	C1537	A C 6D			R1474	A C 4E	R2219	A C 6F	K2114	A C 7B		
C1088	B C 2C	C1538	A C 6D			R1475	A C 4E	R2220	A C 6F	K2115	A		



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No.YD027SCH



Printed in Japan  
WPC