

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.

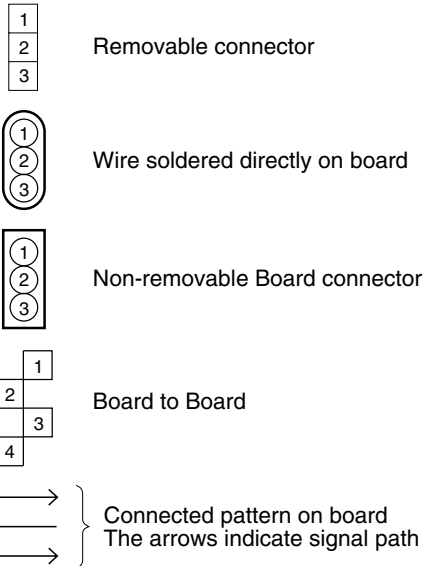
- 1) All resistance values are in ohm, 1/6 W, 1/8 W (refer to parts list).
Chip resistors are 1/16 W.
K: K Ω (1000 Ω), M: M Ω (1000K Ω)
- 2) All capacitance values are in μ F, (P: PF).
- 3) All inductance values are in μ H, (m: mH).
- 4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

AUX : Active at high

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

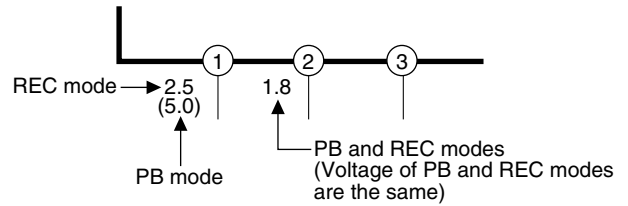
3. Interpreting Connector indications



4. Voltage measurement

- 1) 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

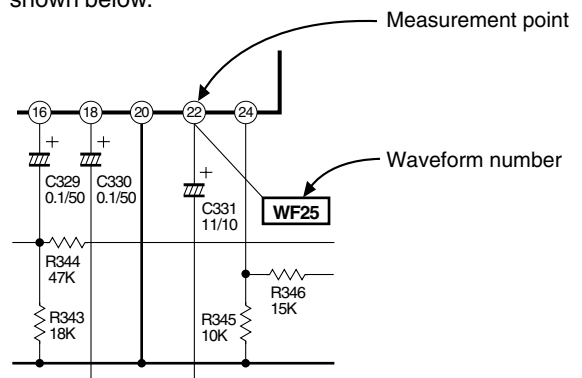
- 4) Indication on schematic diagram
Voltage Indications for REC and PB mode on the schematic diagram are as shown below.



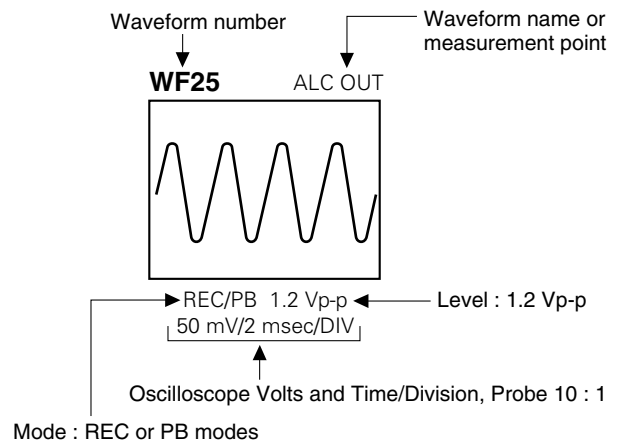
Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

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.

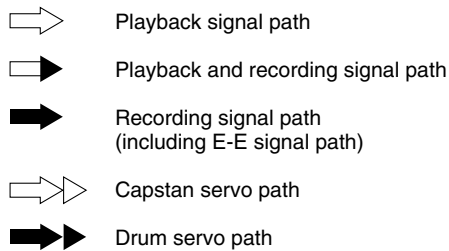


5) Waveform indications

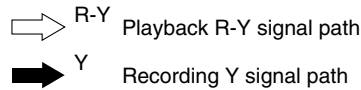


6. Signal path Symbols

The arrows indicate the signal path as follows.

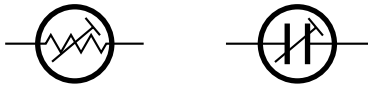


(Example)



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.



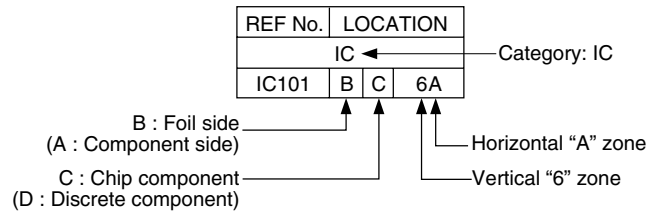
CIRCUIT BOARD NOTES

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

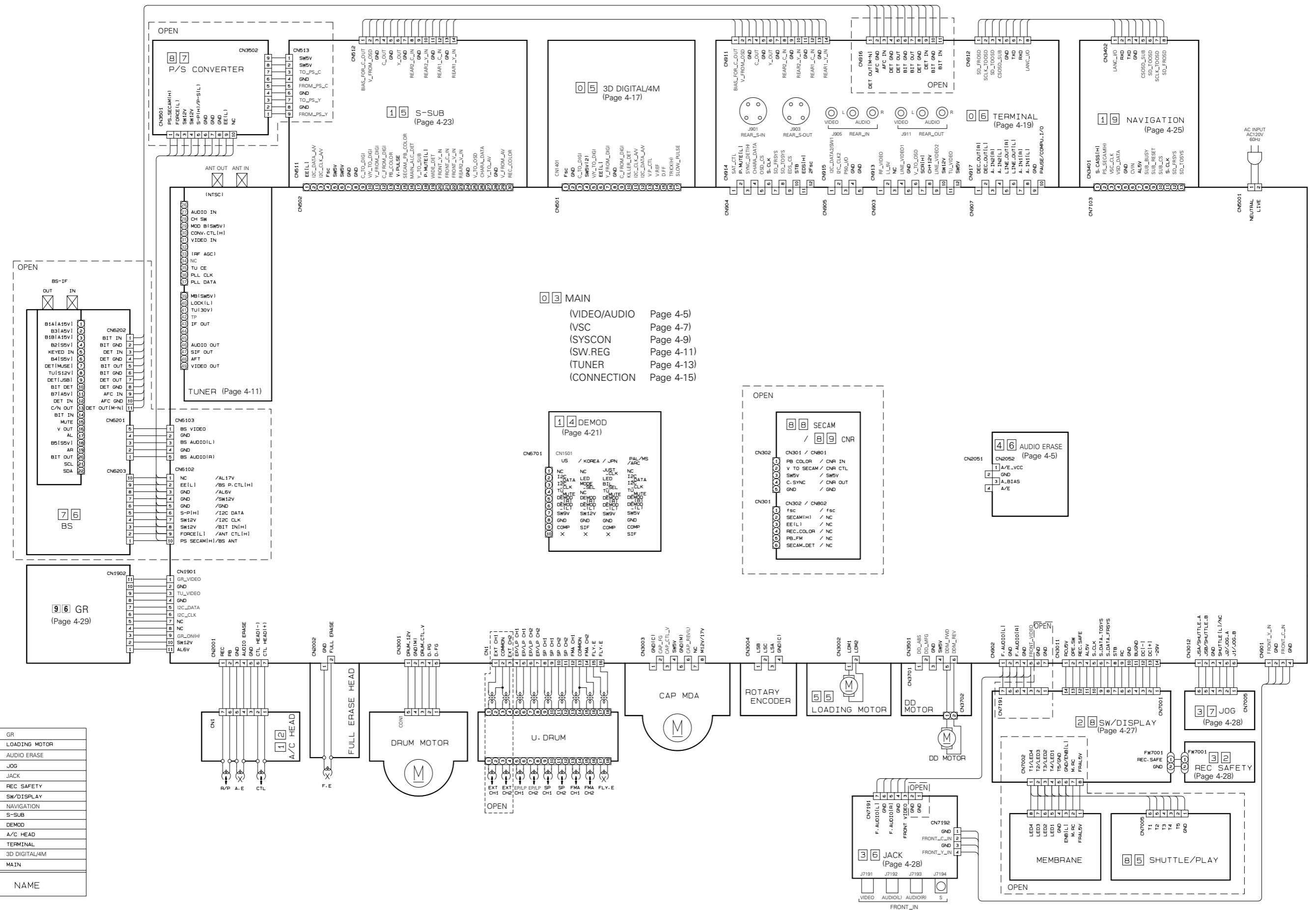
5

4

3

2

1

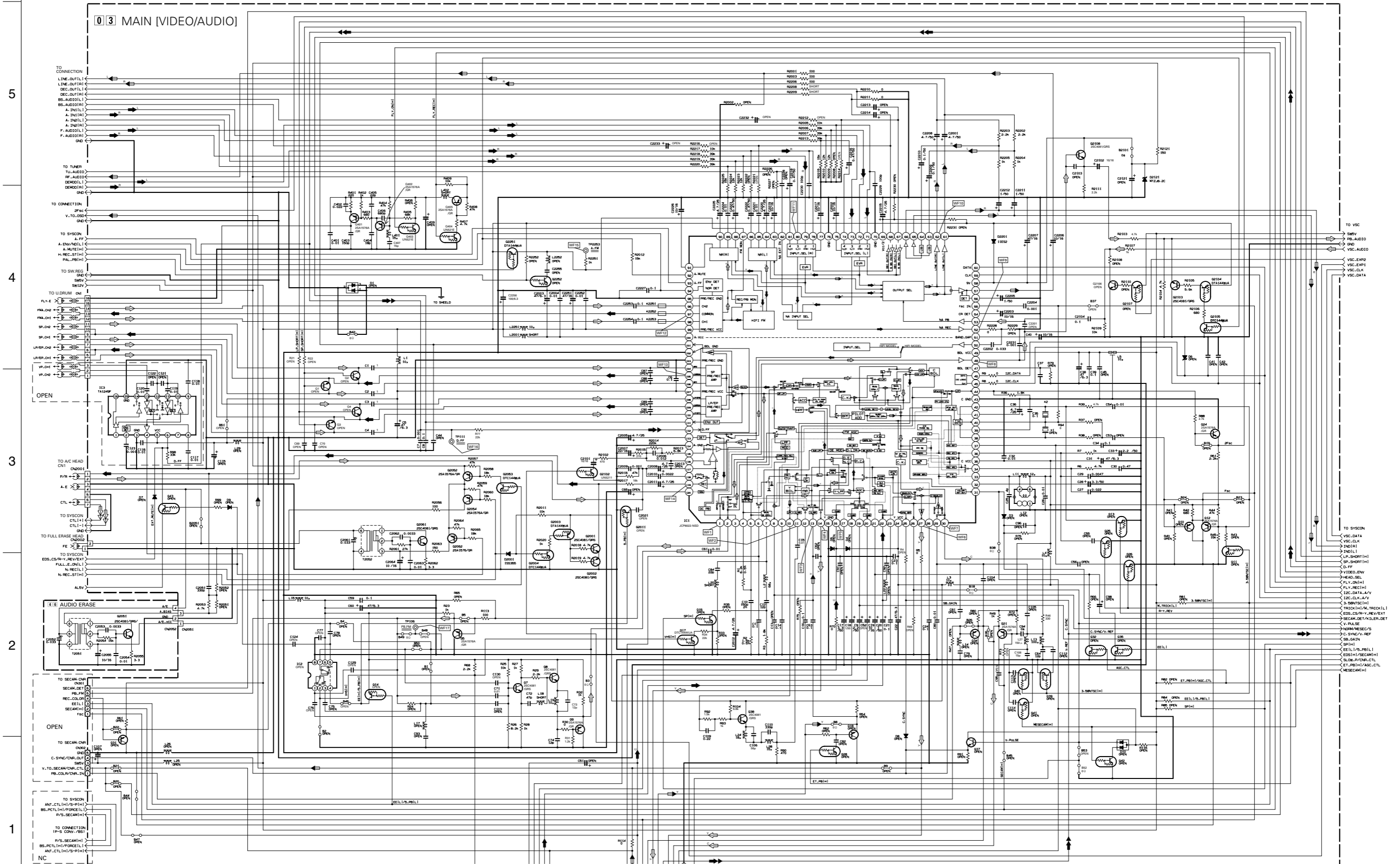


9 6	GR
5 5	LOADING MOTOR
4 6	AUDIO ERASE
3 7	JOG
3 5	JACK
3 2	REC SAFETY
2 8	SW/DISPLAY
1 9	NAVIGATION
1 5	S-SUB
1 4	DEMOD
1 2	A/C HEAD
0 6	TERMINAL
0 5	3D DIGITAL/4M
0 3	MAIN
NO	NAME

A B C D 4-3 4-4 E F G H

4.2 VIDEO/AUDIO AND AUDIO ERASE SCHEMATIC DIAGRAMS

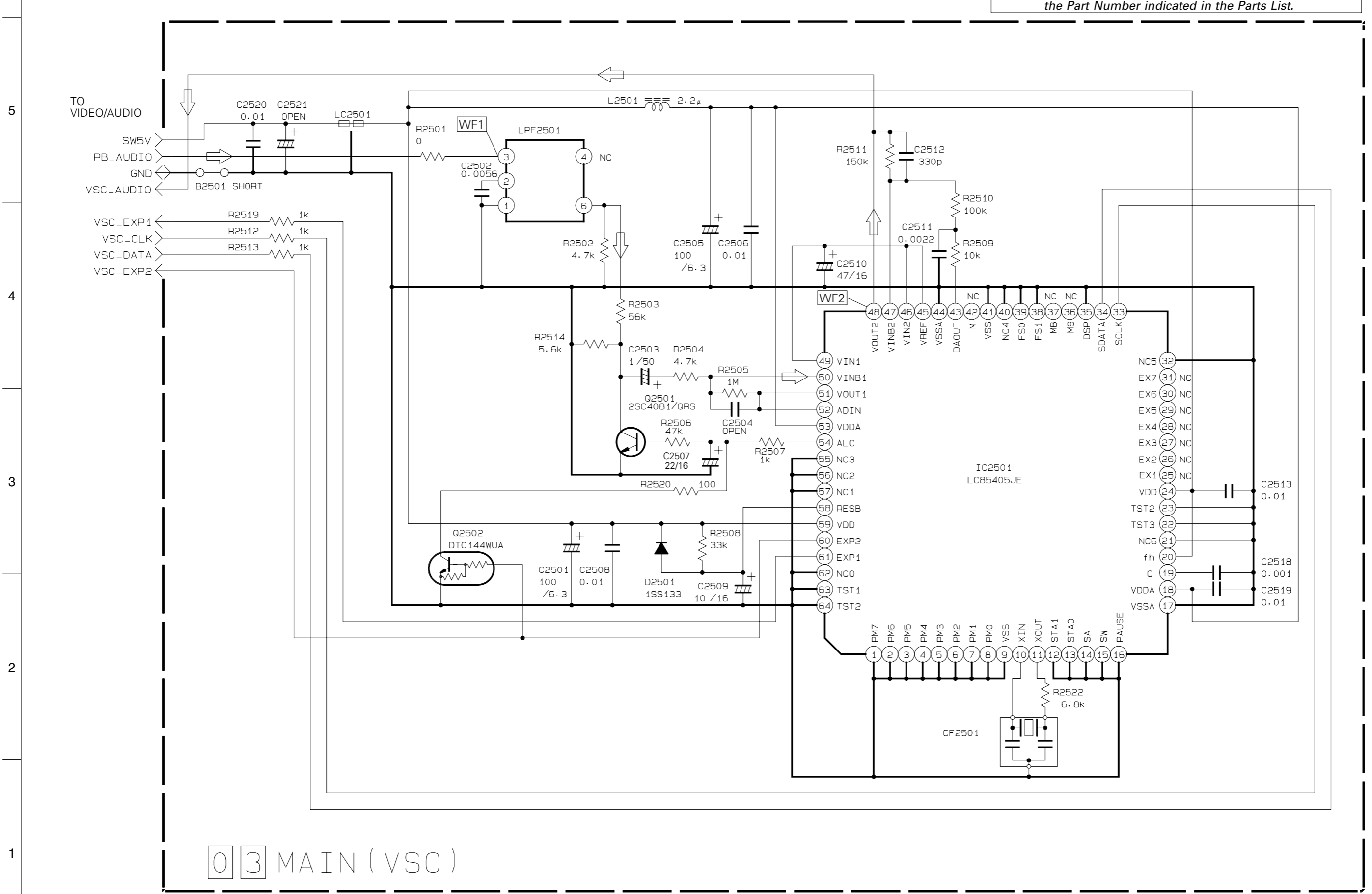
NOTE : When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



NOTE : For VIDEO/AUDIO waveforms, please refer to page 4-31.

4.3 VSC SCHEMATIC DIAGRAM

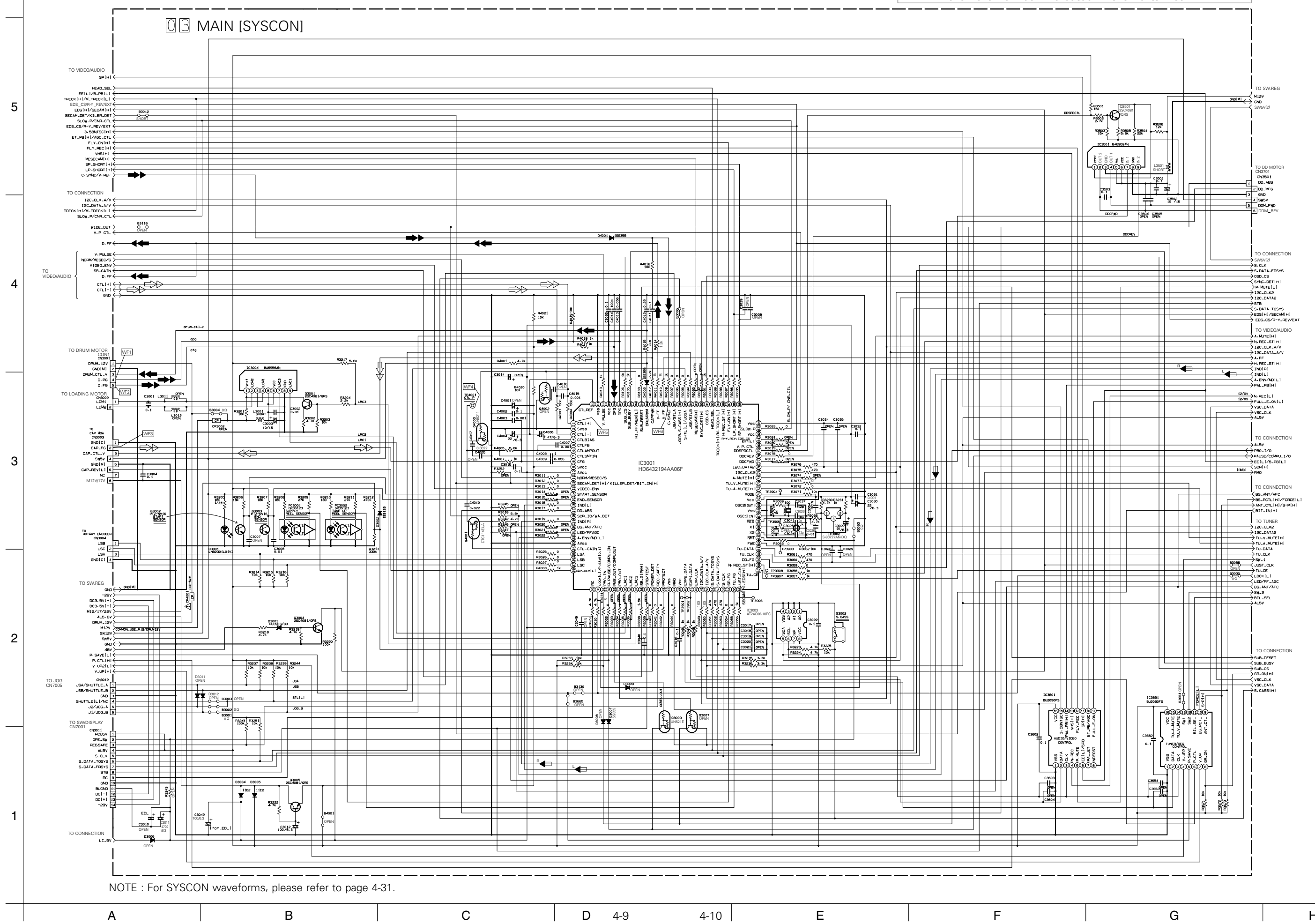
NOTE : When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



NOTE : For VSC waveforms, please refer to page 4-31.

4.4 SYSTEM CONTROL SCHEMATIC DIAGRAM

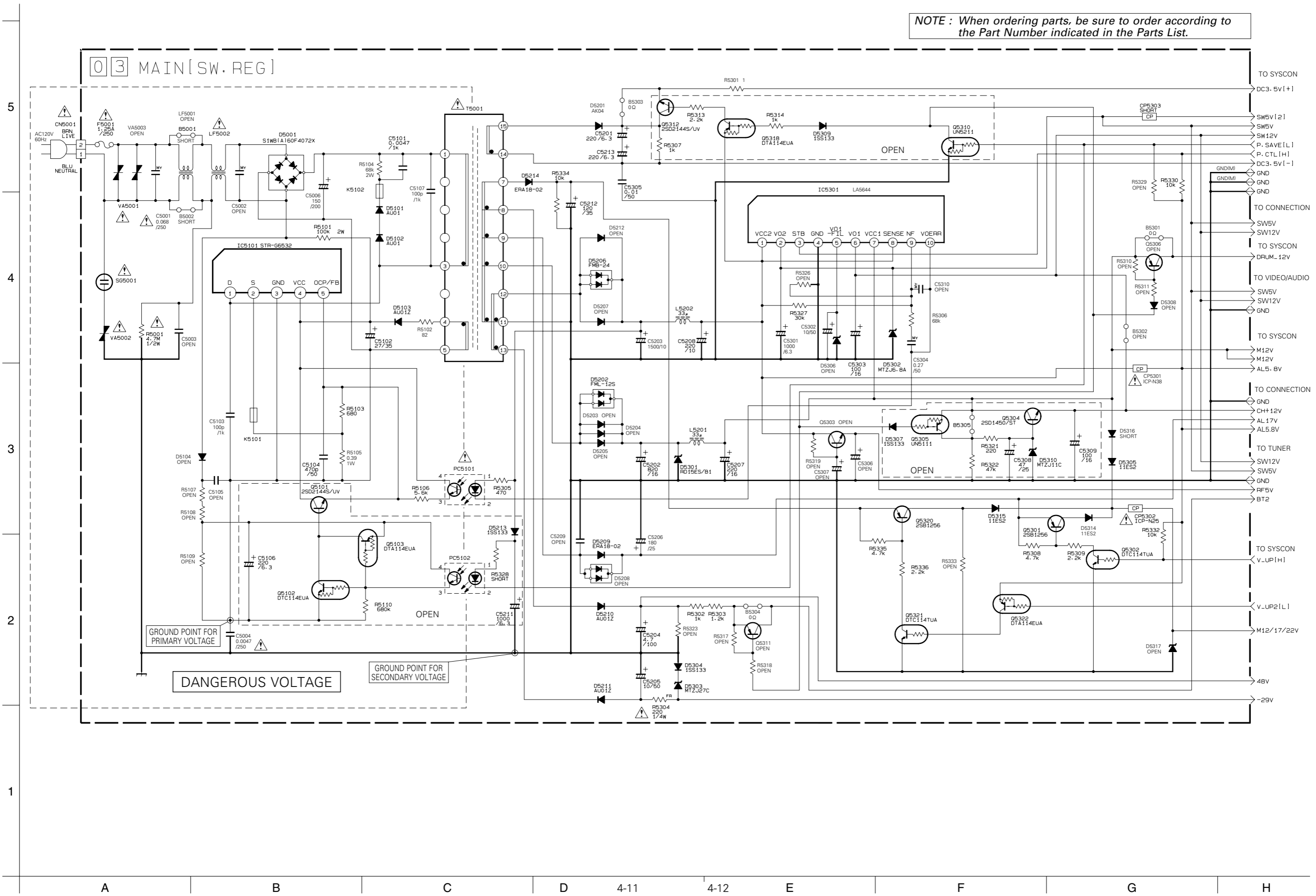
NOTE : When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



NOTE : For SYSCON waveforms, please refer to page 4-31.

4.5 SWITCHING REGULATOR SCHEMATIC DIAGRAM

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



03 MAIN[SW.REG]

GROUND POINT FOR PRIMARY VOLTAGE

DANGEROUS VOLTAGE

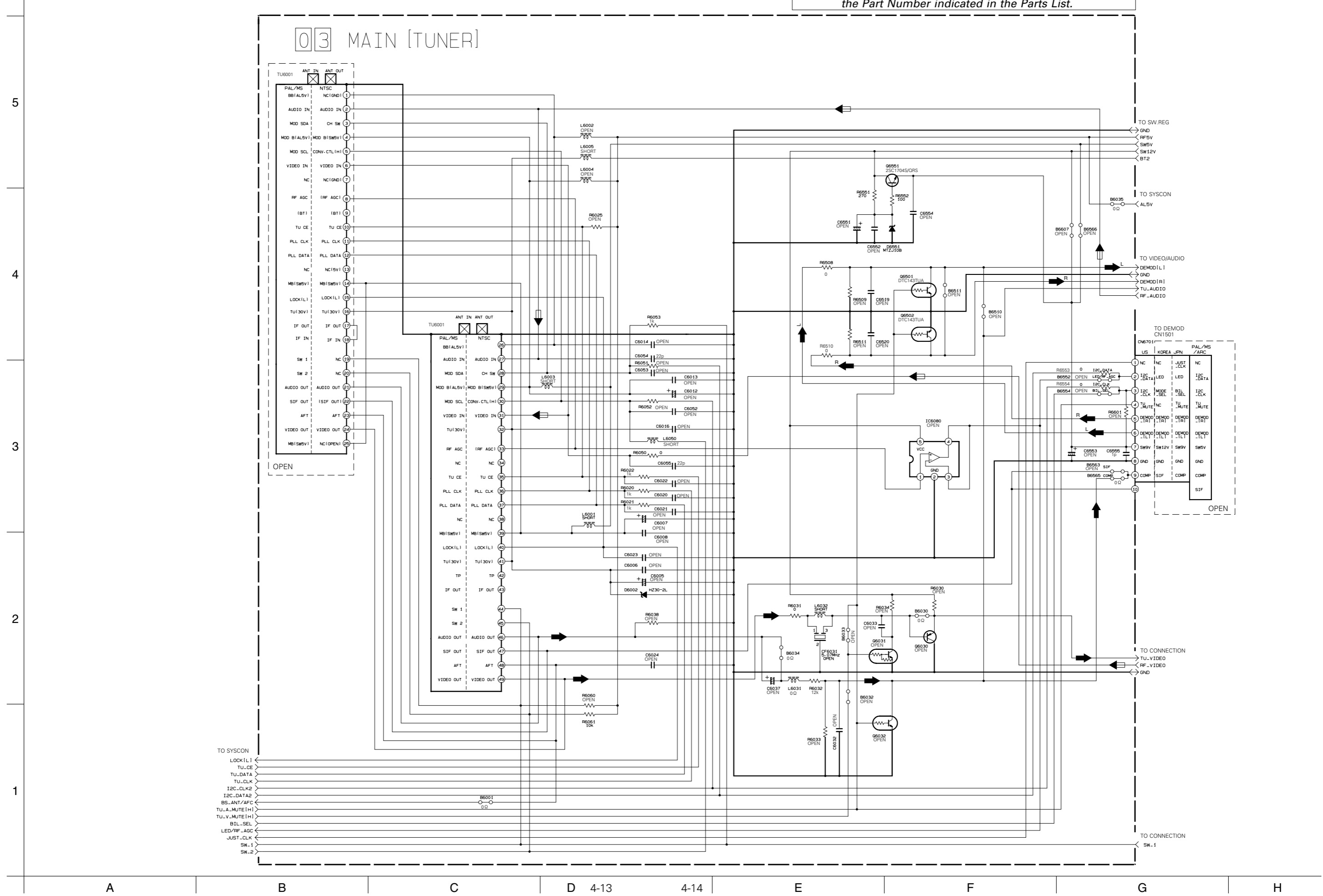
GROUND POINT FOR SECONDARY VOLTAGE

- TO SYSCON
- DC3.5V(+)
- SW5V[2]
- SW12V
- P.SAVE[L1]
- P.CTL[H1]
- DC3.5V(-)
- GND
- GND
- GND
- GND
- TO CONNECTION
- SW5V
- SW12V
- TO SYSCON
- DRUM.12V
- TO VIDEO/AUDIO
- SW5V
- SW12V
- GND
- TO SYSCON
- M12V
- M12V
- AL5.8V
- TO CONNECTION
- GND
- CH+12V
- AL17V
- AL5.8V
- TO TUNER
- SW12V
- SW5V
- GND
- RF5V
- BT2
- TO SYSCON
- V_UP[H1]
- V_UP[L1]
- M12/17/22V
- 48V
- 29V

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

4.6 TUNER SCHEMATIC DIAGRAM

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



TO SYSICON
 LOCK(L)1
 TU_CE
 TU_DATA
 TU_CLK
 I2C_CLK2
 I2C_DATA2
 BS_ANT/AGC
 TU_A_MUTE(H)
 TU_V_MUTE(H)
 BIL_SEL
 LED/RF_AGC
 JUST_CLK
 SW_1
 SW_2

TO SW.REG
 GND
 RF5V
 SW5V
 SW12V
 BT2

TO SYSICON
 B6035 0Ω
 AL5V

TO VIDEO/AUDIO
 DEMOD(L)1
 GND
 DEMOD(R)1
 TU_AUDIO
 RF_AUDIO

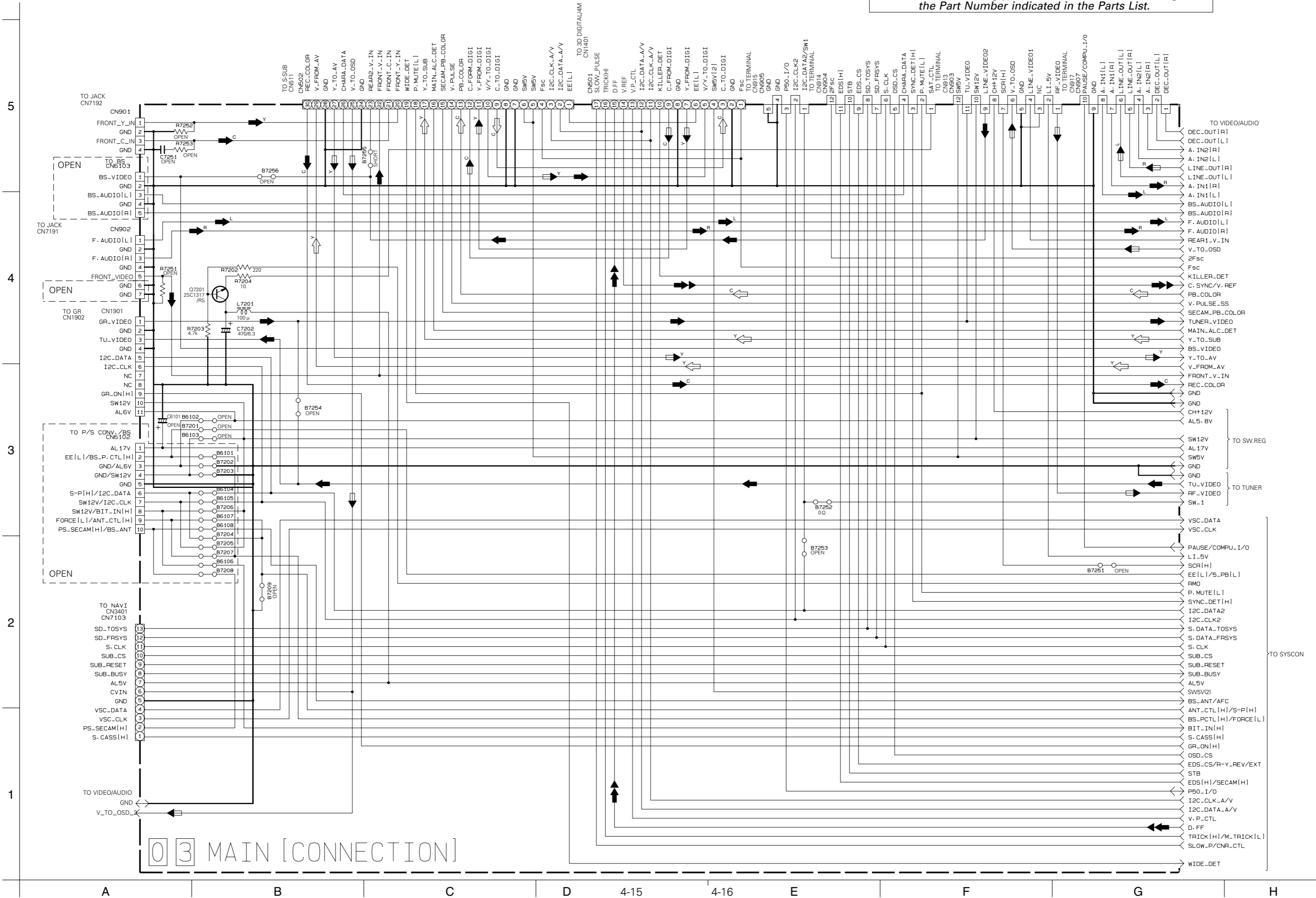
TO DEMOD
 CN1501
 CNE701
 US KOREA JPN PAL/MS /ARC
 1 NC NC JUST_CLK NC
 2 I2C_DATA1 LED LED I2C_DATA
 3 I2C_CLK1 MODE_SEL BT1_SEL
 4 TU_MUTE NC TU_MUTE
 5 DEMOD(L)1 DEMOD(L)1 DEMOD(L)1
 6 DEMOD(L)1 DEMOD(L)1 DEMOD(L)1
 7 SW9V SW12V SW9V
 8 GND GND GND
 9 COMP SIF COMP
 10 COMP SIF COMP

TO CONNECTION
 TU_VIDEO
 RF_VIDEO
 GND

TO CONNECTION
 SW_1

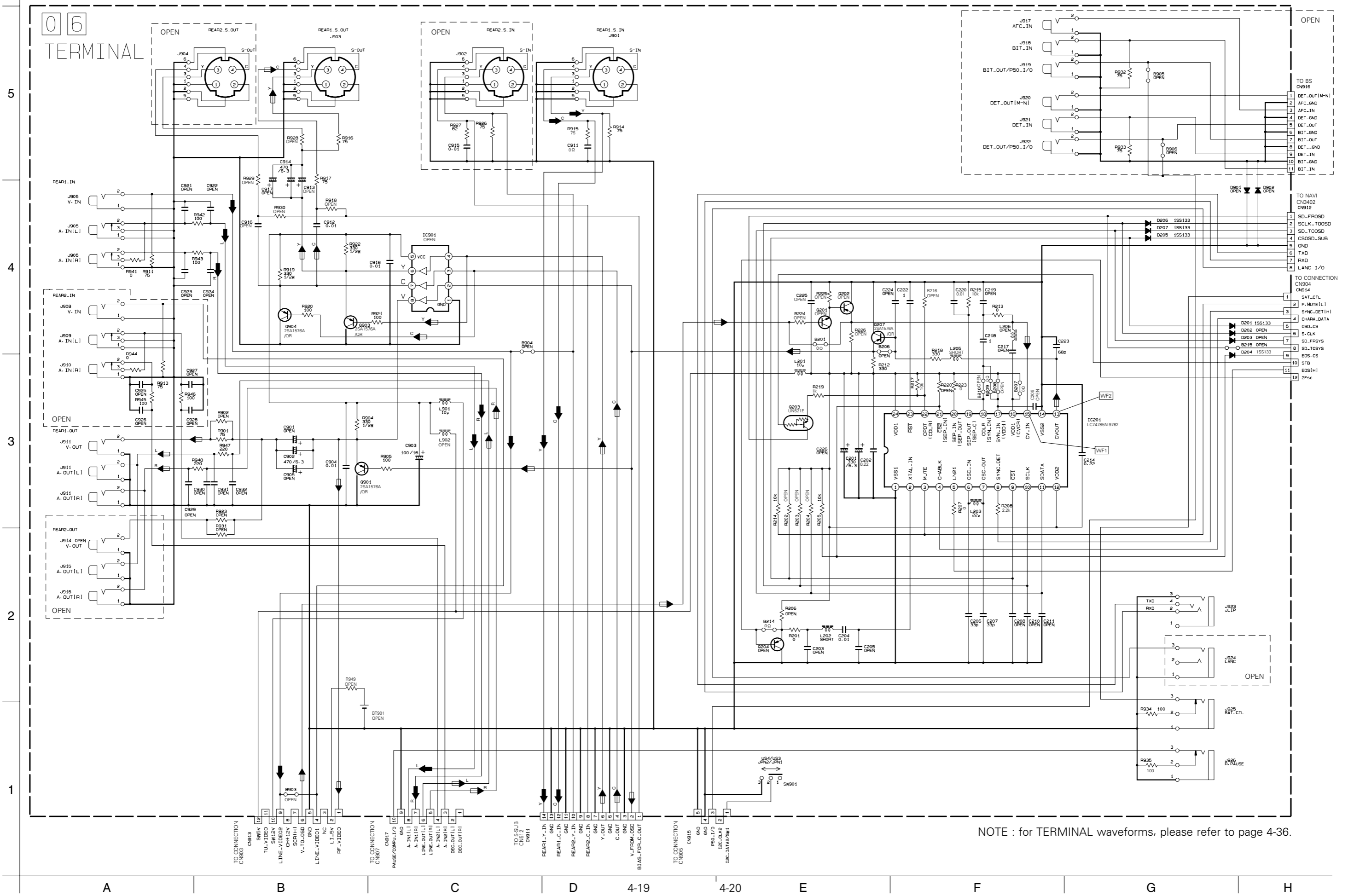
4.7 CONNECTION SCHEMATIC DIAGRAM

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



4.9 TERMINAL SCHEMATIC DIAGRAM

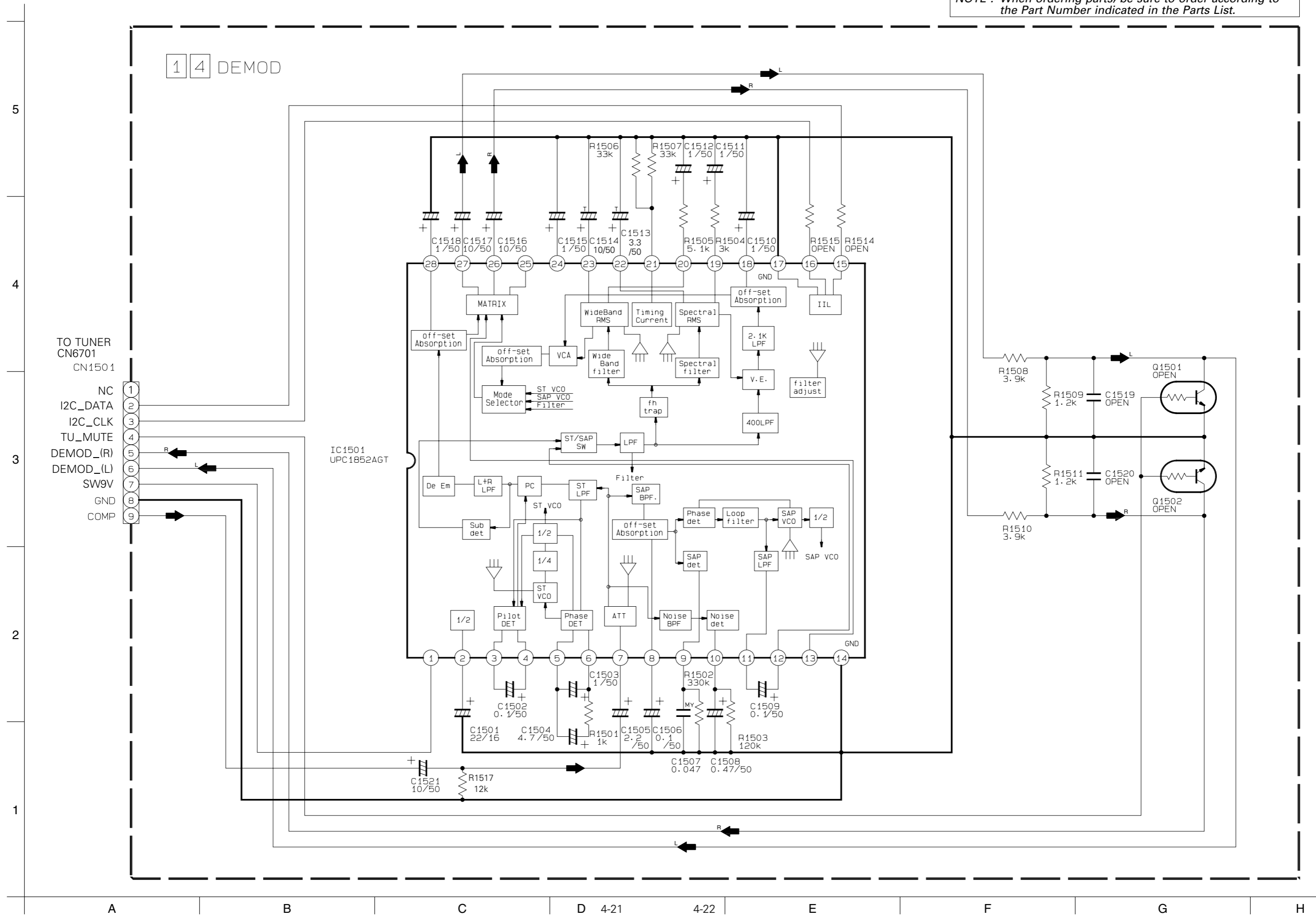
NOTE : When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



NOTE : for TERMINAL waveforms, please refer to page 4-36.

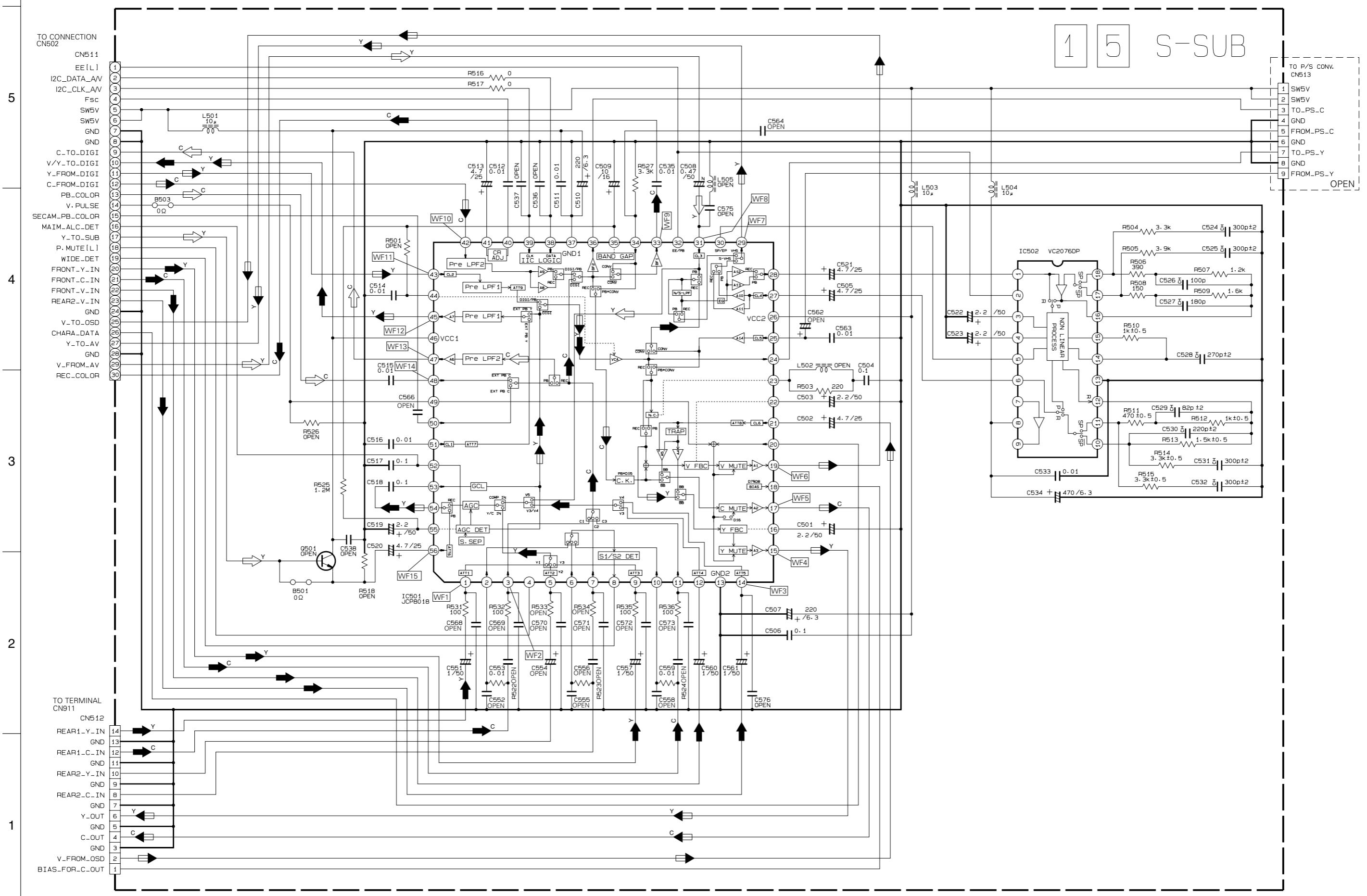
4.10 DEMODULATOR SCHEMATIC DIAGRAM

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



4.11 S-SUB SCHEMATIC DIAGRAM

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



1 5 S-SUB

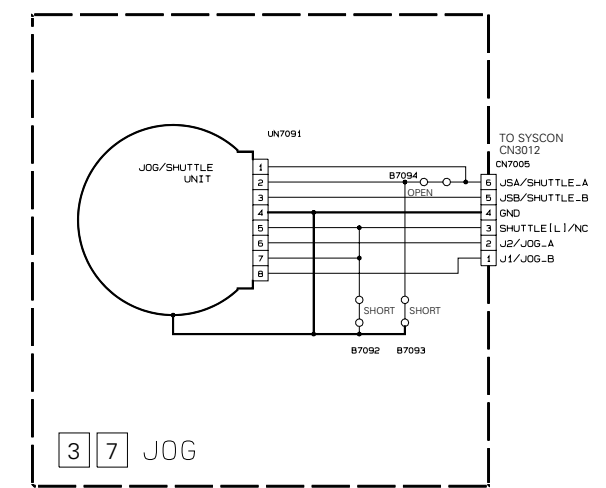
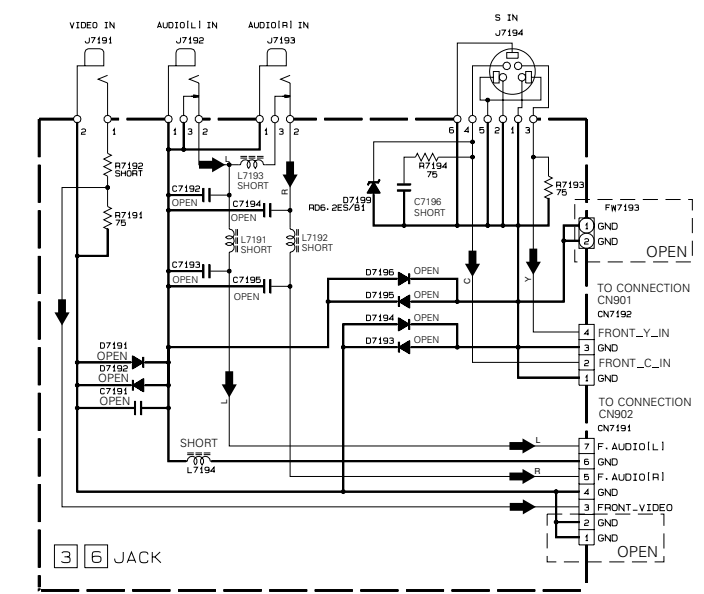
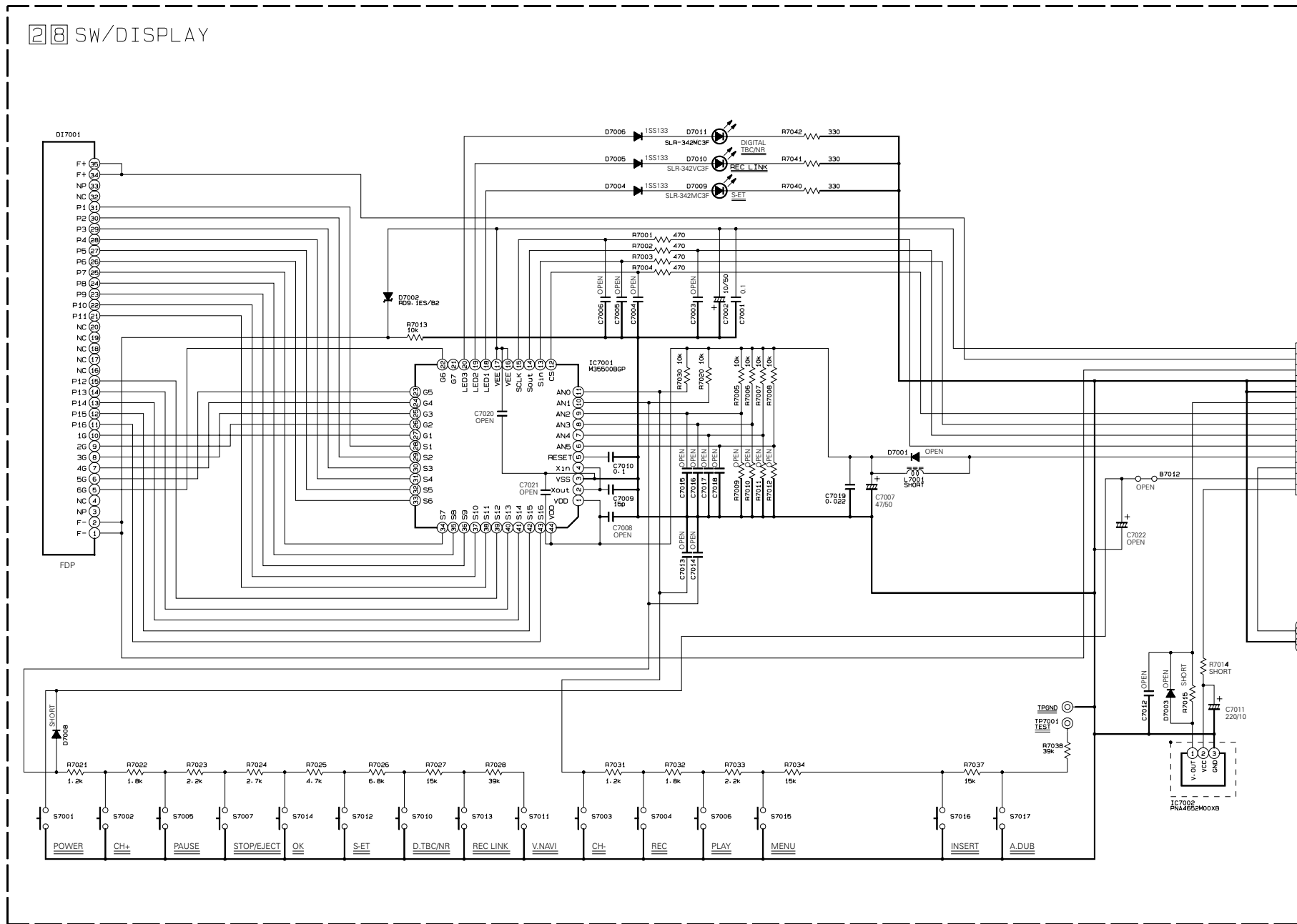
NOTE : For S-SUB waveforms, please refer to page 4-38.

A B C D 4-23 4-24 E F G H

4.13 SW/DISPLAY, REC SAFETY, JACK AND JOG SCHEMATIC DIAGRAMS

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

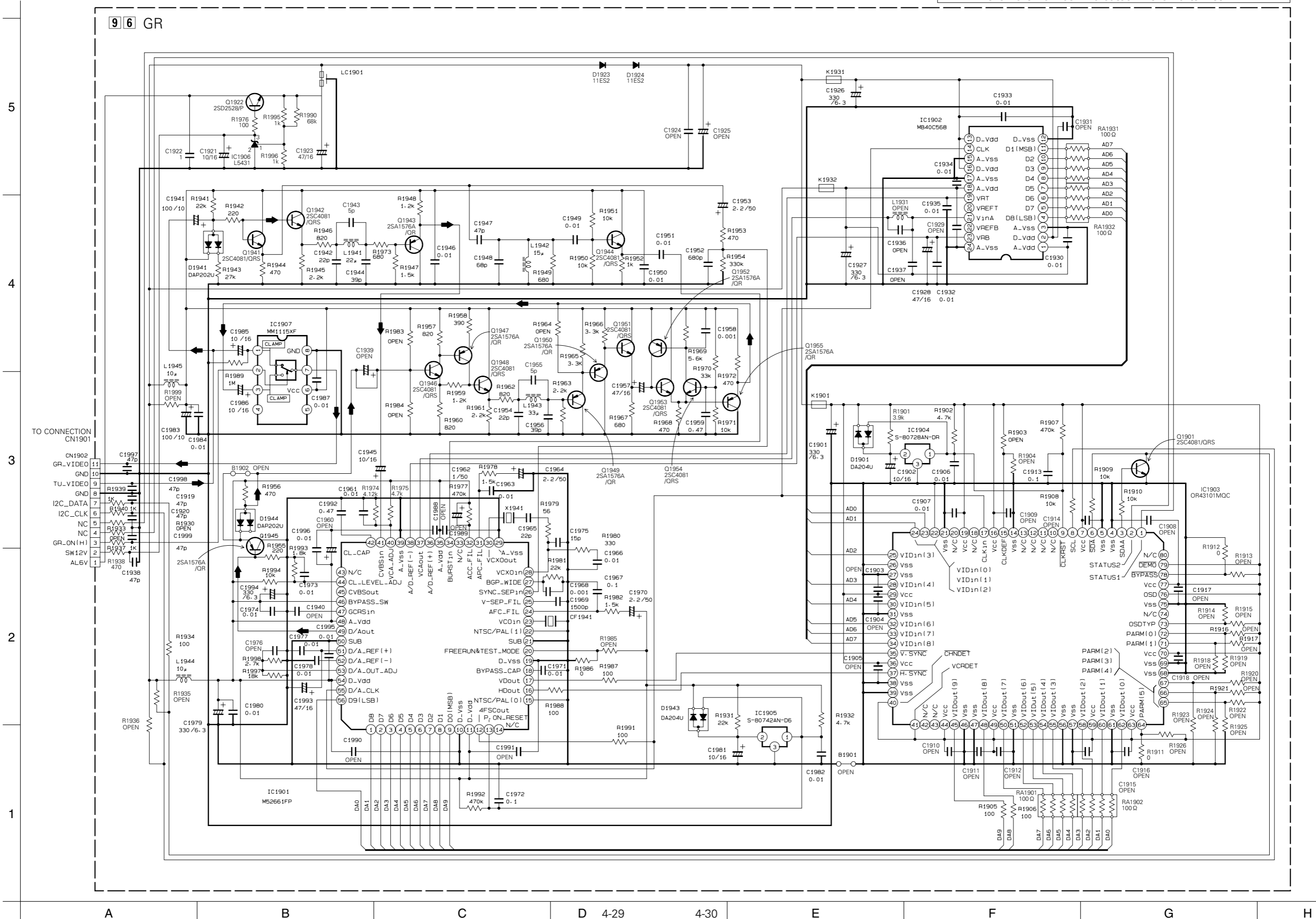
5
4
3
2
1



A B C D 4-27 4-28 E F G H

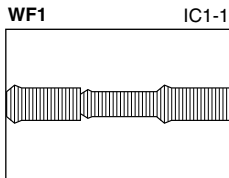
4.14 GR SCHEMATIC DIAGRAM

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

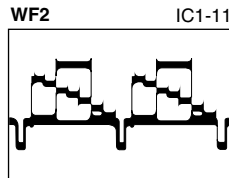


WAVEFORMS

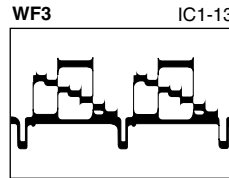
— VIDEO/AUDIO —



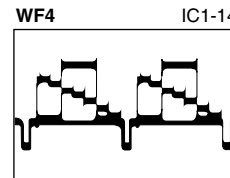
PB 0.28 Vp-p
20 mV/5 msec/DIV



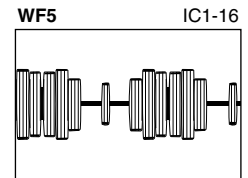
REC/PB 0.5 Vp-p
10 mV/20 μsec/DIV



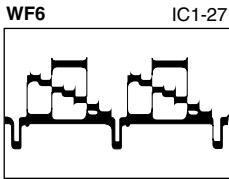
REC/PB 0.5 Vp-p
10 mV/20 μsec/DIV



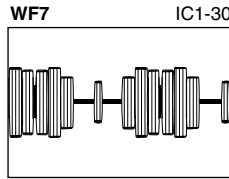
PB 0.6 Vp-p
20 mV/20 μsec/DIV



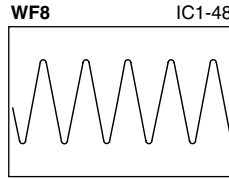
REC 0.7 Vp-p
20 mV/20 μsec/DIV



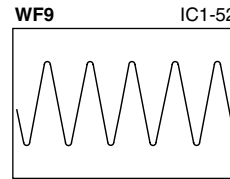
PB 2.2 Vp-p
50 mV/20 μsec/DIV



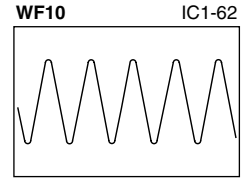
PB 0.68 Vp-p
20 mV/20 μsec/DIV



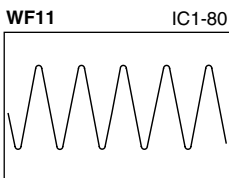
PB 0.84 Vp-p
20 mV/0.5 msec/DIV



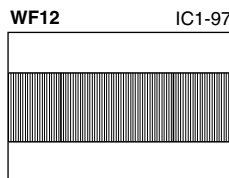
REC 0.11 Vp-p
2 mV/0.5 msec/DIV



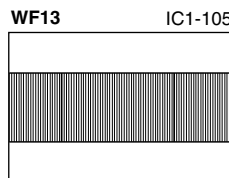
REC/PB 0.86 Vp-p
20 mV/0.5 msec/DIV



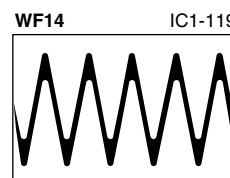
REC 0.2 Vp-p
5 mV/0.5 msec/DIV



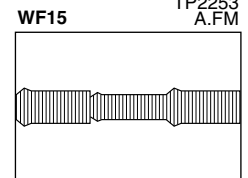
REC 1.1 Vp-p
50 mV/5 msec/DIV



REC 2.2 Vp-p
0.1 V/1 msec/DIV

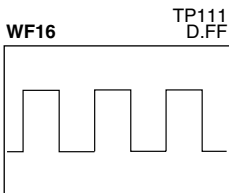


REC 0.9 Vp-p
20 mV/0.5 msec/DIV

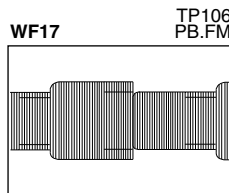


PB 0.8 Vp-p
50 mV/5 msec/DIV

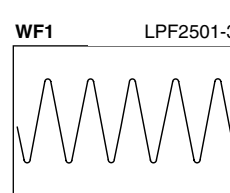
— VSC —



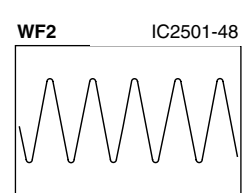
REC/PB 3.4 Vp-p
0.1 V/10 msec/DIV



PB 1.1 Vp-p
20 mV/5 msec/DIV

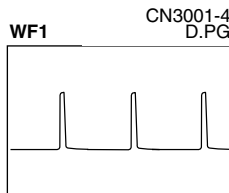


PB 0.32 Vp-p
10 mV/0.5 msec/DIV

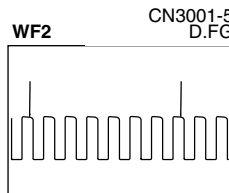


PB 0.9 Vp-p
20 mV/0.5 msec/DIV

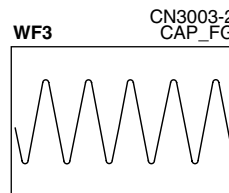
— SYSCON —



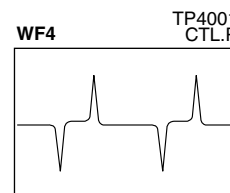
REC/PB 4.5 Vp-p
0.1 V/10 msec/DIV



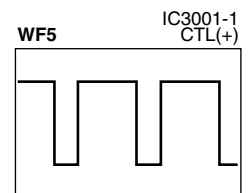
REC/PB 4.5 Vp-p
0.1 V/10 msec/DIV



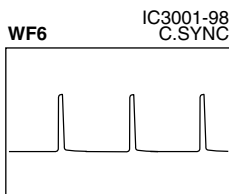
REC/PB 2.4 Vp-p
50 mV/0.5 msec/DIV



PB 2.1 Vp-p
0.1 V/10 msec/DIV



REC 3.6 Vp-p
0.1 V/10 msec/DIV



REC/PB 4.0 Vp-p
0.1 V/20 μsec/DIV

4.15 MAIN, AUDIO ERASE, A/C HEAD AND LOADING MOTOR CIRCUIT BOARDS

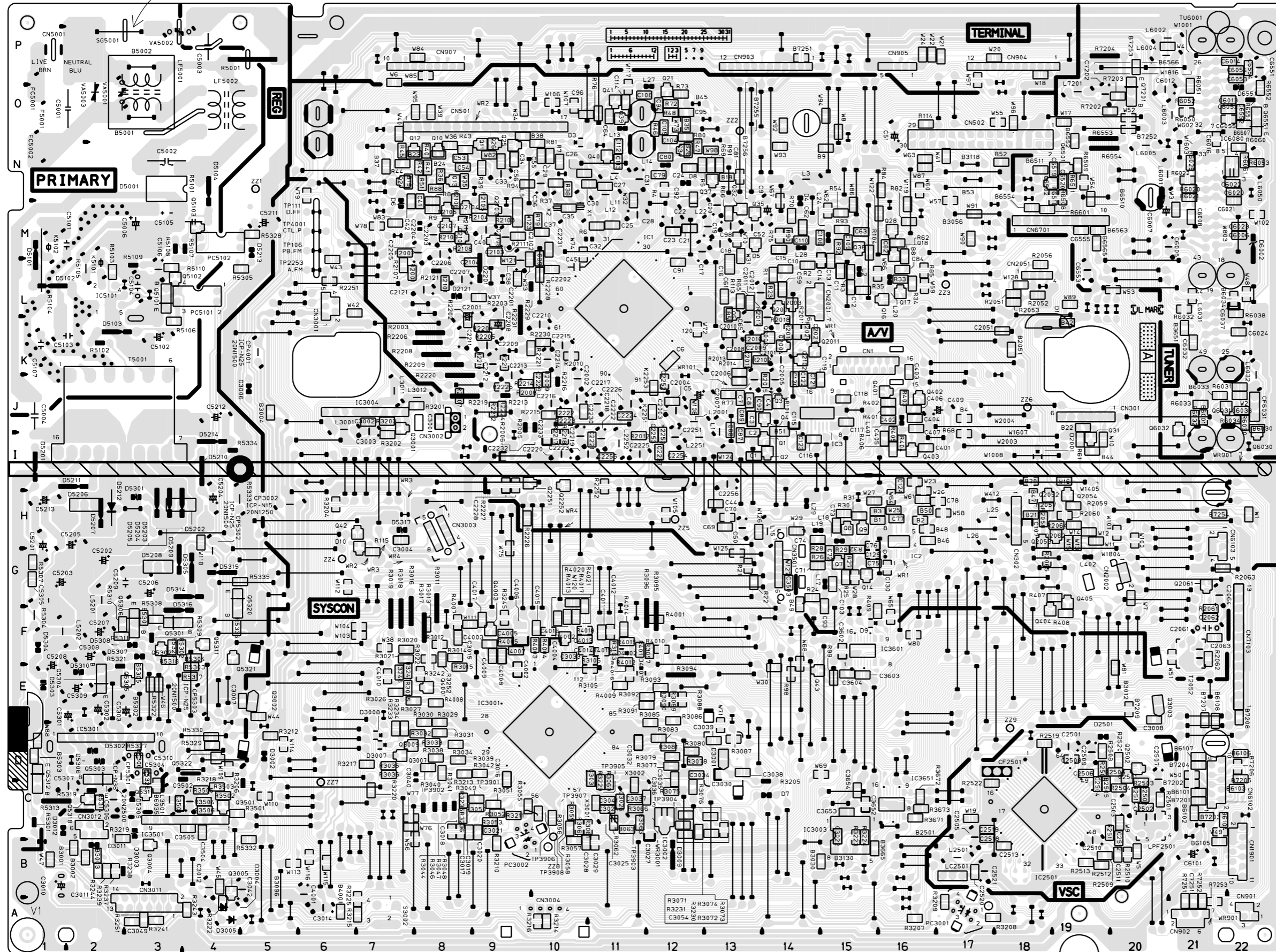


• CAUTION
FOR CONTINUED PROTECTION AGAINST
FIRE HAZARD, REPLACE ONLY WITH SAME
TYPE AND RATED FUSE(S).

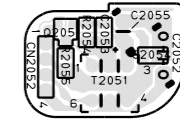
• ATTENTION:
POUR UNE PROTECTION PERMANENTE
CONTRE LES RISQUE D'INCENDE,
REMPLEZ LES FUSIBLES PAR UN AUTRE
DE MEME TYPE ET DE MEME TENSION.

<03>MAIN
LPB10106-001C

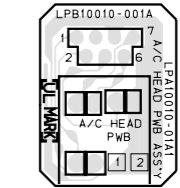
DANGEROUS VOLTAGE



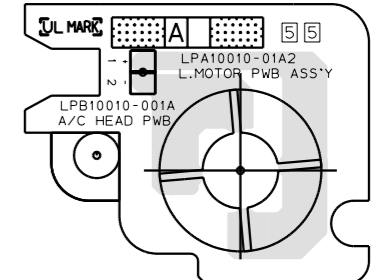
<46>AUDIO ERASE
LPB10106-001C



<12>A/C HEAD
LPB10010-001A



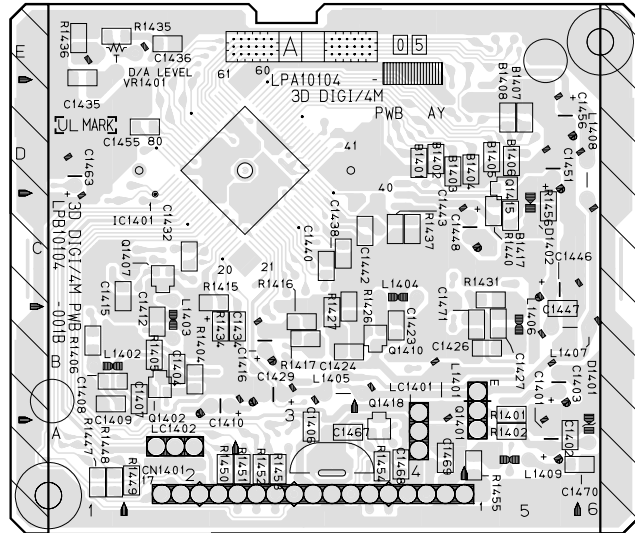
<55>LOADING MOTOR
LPB10010-001A



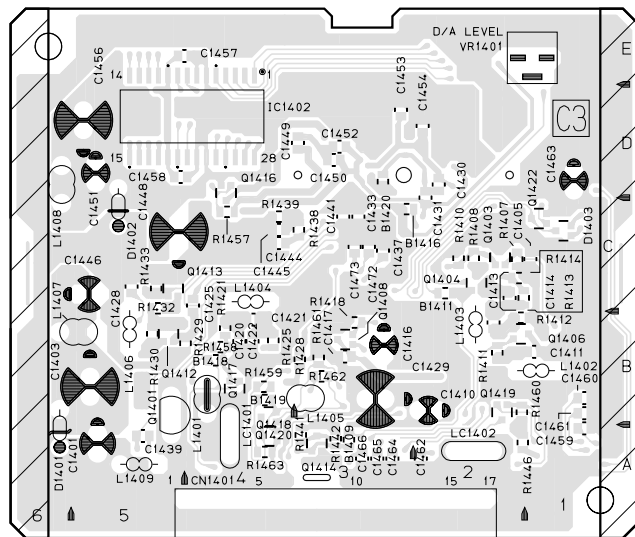
4.16 3D DIGITAL/4M CIRCUIT BOARD

<05> 3D DIGITAL/4M
LPB10104-001B

— FOIL SIDE(B) —



— COMPONENT SIDE(A) —

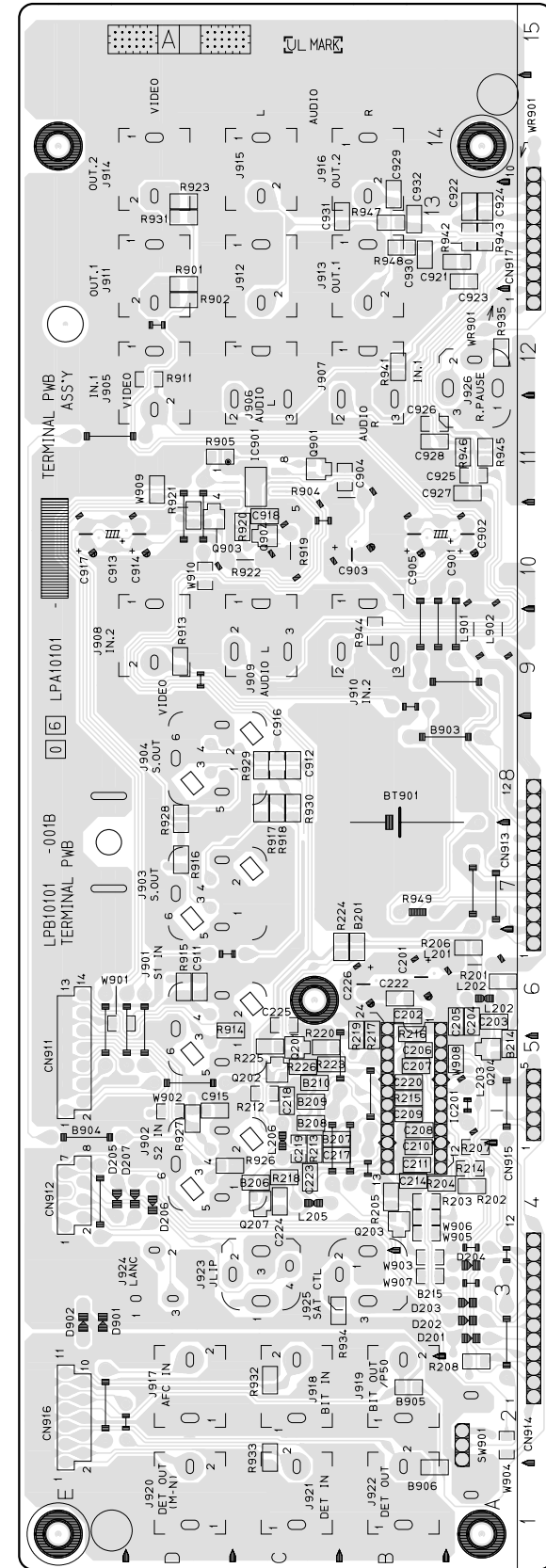


COMPONENT PARTS LOCATION GUIDE
<3D DIGITAL/4M>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR					
C1401	A D 5A	C1457	A C 5E	Q1420	A C 4A
C1402	B C 5A	C1458	A C 5D	Q1421	A C 4B
C1403	A D 5B	C1459	A C 1A	Q1422	A C 1C
C1404	A C 2B	C1460	A C 1B	RESISTOR	
C1405	A C 1C	C1461	A C 2A	R1401	B C 5B
C1406	B C 3A	C1462	A C 3A	R1402	B C 5A
C1407	B C 2B	C1463	A C 3A	R1403	B C 2B
C1408	B C 1B	C1464	A C 3A	R1404	B C 2B
C1409	B C 1B	C1465	A C 3A	R1405	B C 1B
C1410	A C 2B	C1466	A C 4A	R1406	B C 1B
C1411	A C 1B	C1467	A C 4A	R1407	A C 2C
C1412	A C 2B	C1468	A C 4A	R1408	A C 2C
C1413	A C 2B	C1469	A C 4A	R1409	A C 2C
C1414	A C 2C	C1470	B C 6A	R1410	A C 2B
C1415	A C 1C	C1471	B C 5B	R1411	A C 2B
C1416	A C 3B	C1472	R1413	R1412	A C 2C
C1417	A C 3B	C1473	A C 9C	R1413	A C 2C
C1420	A C 4B	CONNECTOR			
C1421	A C 4B	CN1401	A D 5A	R1414	B C 2C
C1422	B C 4B	DIODE			
C1423	B C 4B	D1401	A D 6B	R1415	B C 2C
C1424	A C 3B	D1402	A D 1C	R1416	B C 3B
C1425	A C 4C	D1403	A C 1C	R1417	A C 3B
C1426	B C 5B	IC			
C1427	B C 5B	IC1401	A C 3D	R1418	A C 3B
C1428	A C 5C	IC1402	A C 4D	R1419	A C 4B
C1429	A D 3B	COIL			
C1430	A C 2D	L1401	A D 4B	R1420	B C 3B
C1431	A C 2D	L1402	A D 1B	R1421	B C 3B
C1432	A C 2C	L1403	A D 2B	R1422	A C 4B
C1433	A C 3C	L1404	A D 4C	R1423	A C 4B
C1434	B C 3B	L1405	A D 4B	R1424	B C 3C
C1435	B C 1E	L1406	A D 5B	R1425	B C 3C
C1436	A C 2E	L1407	A D 6B	R1426	B C 3C
C1437	A C 3C	L1408	A D 6C	R1427	B C 3C
C1438	A C 3C	L1409	A D 5A	R1428	B C 3B
C1439	A C 3C	TRANSISTOR			
C1440	B C 3C	Q1401	A D 5B	R1429	A C 4B
C1441	A C 3C	Q1402	A B 5B	R1430	A C 5B
C1442	B C 4C	Q1403	A C 2C	R1431	B C 5C
C1443	A C 4C	Q1404	A C 2C	R1432	A C 5C
C1444	A C 4C	Q1405	A C 2C	R1433	A C 5C
C1445	A C 4C	Q1406	A C 2B	R1434	B C 2E
C1446	A D 5C	Q1407	B C 2C	R1435	B C 1E
C1447	B C 5B	Q1408	A C 3B	R1436	B C 1E
C1448	A C 5C	Q1409	B C 4B	R1437	B C 4C
C1449	A C 4D	Q1410	B C 5B	R1438	A C 4C
C1450	A C 3D	Q1411	A C 4B	R1439	A C 4C
C1451	A C 3D	Q1412	A C 5B	R1440	A C 5C
C1452	A C 3D	Q1413	A C 5C	R1441	A C 3A
C1453	A C 3D	Q1414	A C 3A	R1442	A C 3A
C1454	A C 2D	Q1415	A C 5D	R1443	A C 2A
C1455	B C 2D	Q1416	A C 4D	R1444	B C 1A
C1456	A D 5D	Q1417	A C 4B	R1445	B C 1A
		Q1418	B C 4A	R1446	B C 2A
		Q1419	A C 2B	R1447	B C 2A
				R1448	B C 2A
				R1449	B C 2A
				R1450	B C 3A
				R1451	B C 3A
				R1452	B C 3A
				R1453	B C 3A
				R1454	B C 4A
				R1455	B C 5A
				R1456	B C 5C
				R1457	A C 4C
				R1458	A C 4B
				R1459	A C 4B
				R1460	A C 2B
				R1461	A C 3B

4.17 TERMINAL CIRCUIT BOARD

<06> TERMINAL
LPB10101-001B

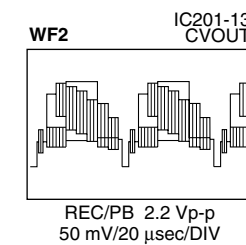
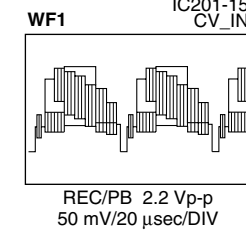


COMPONENT PARTS LOCATION GUIDE
<TERMINAL>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR					
C201	A D 6B	CN912	A D 4E	L202	A D 6A
C202	B C 6B	CN913	A D 6A	L203	A D 6A
C203	B C 6A	CN914	A D 2A	L205	A D 4C
C204	B C 6A	CN915	A D 5A	L206	A D 4C
C205	B C 6A	CN916	A D 2E	L901	A D 9A
C206	B C 6A	CN917	A D 12A	L902	A D 9A
C207	B C 5B	DIODE			
C208	B C 5B	D201	A D 3A	Q201	B C 5C
C209	B C 5B	D202	A D 3A	Q202	B C 5C
C210	B C 4B	D203	A D 3A	Q203	B C 5C
C211	B C 4B	D204	A D 3A	Q204	B C 5A
C212	B C 4B	D205	A D 4E	Q207	B C 4C
C214	B C 4C	D206	A D 4D	Q901	B C 11C
C217	B C 4C	D207	A D 4D	Q903	B C 10D
C218	B C 5C	D901	A D 3E	Q904	B C 10C
C219	B C 4C	D902	A D 3E	RESISTOR	
C220	B C 5B	IC			
C222	B C 6B	IC201	A D 6B	R201	B C 6A
C223	B C 4C	IC901	B C 11C	R202	B C 4B
C224	B C 4C	JACK			
C225	B C 6C	J901	A D 6D	R203	B C 4B
C226	A D 6B	J902	A D 4D	R204	B C 4B
C901	A D 10B	J903	A D 7D	R205	B C 4B
C902	A D 10A	J904	A D 8D	R206	B C 6A
C903	A D 10B	J905	A D 12D	R207	B C 4A
C904	B C 11B	J906	A D 12C	R208	B C 2A
C905	A D 10B	J907	A D 12B	R212	B C 5C
C911	B C 6D	J908	A D 9D	R213	B C 4C
C912	B C 8C	J909	A D 9C	R214	B C 4A
C913	A D 10E	J910	A D 9B	R215	B C 5B
C914	A D 10D	J911	A D 13D	R216	B C 6B
C915	B C 5D	J912	A D 13C	R217	B C 6B
C916	B C 8C	J913	A D 13B	R218	B C 4C
C917	A D 10E	J914	A D 14D	R219	B C 6B
C918	B C 10C	J915	A D 14C	R220	B C 5C
C921	B C 13A	J916	A D 14B	R221	B C 5C
C922	B C 13A	J917	A D 14B	R222	B C 5C
C923	B C 13A	J918	A D 2C	R224	B C 6B
C924	B C 13A	J919	A D 2B	R225	B C 5C
C925	B C 11A	J920	A D 1D	R226	B C 5C
C926	B C 11B	J921	A D 1C	R901	B C 13D
C927	B C 11A	J922	A D 1B	R902	B C 12D
C928	B C 11B	J923	A D 3C	R904	A D 11B
C929	B C 13B	J924	A D 3D	R905	B C 11D
C930	B C 13B	J925	A D 3B	R906	B C 12D
C931	B C 13B	J926	A D 12A	R907	B C 9D
C932	B C 13B	CONNECTOR			
C933	B C 13B	COIL			
CN911	A D 5E	L201	A D 6A	R908	B C 8C
				R909	B C 8C
				R910	A D 10C

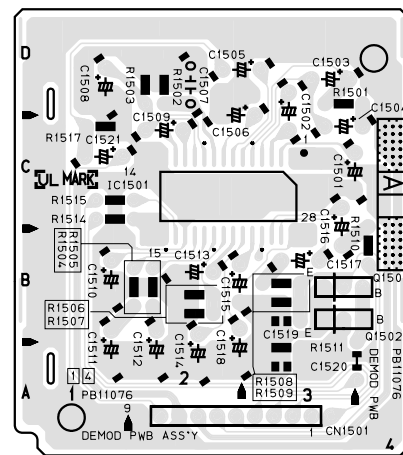
WAVEFORMS

— TERMINAL —



4.18 DEMODULATOR CIRCUIT BOARD

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PB11076

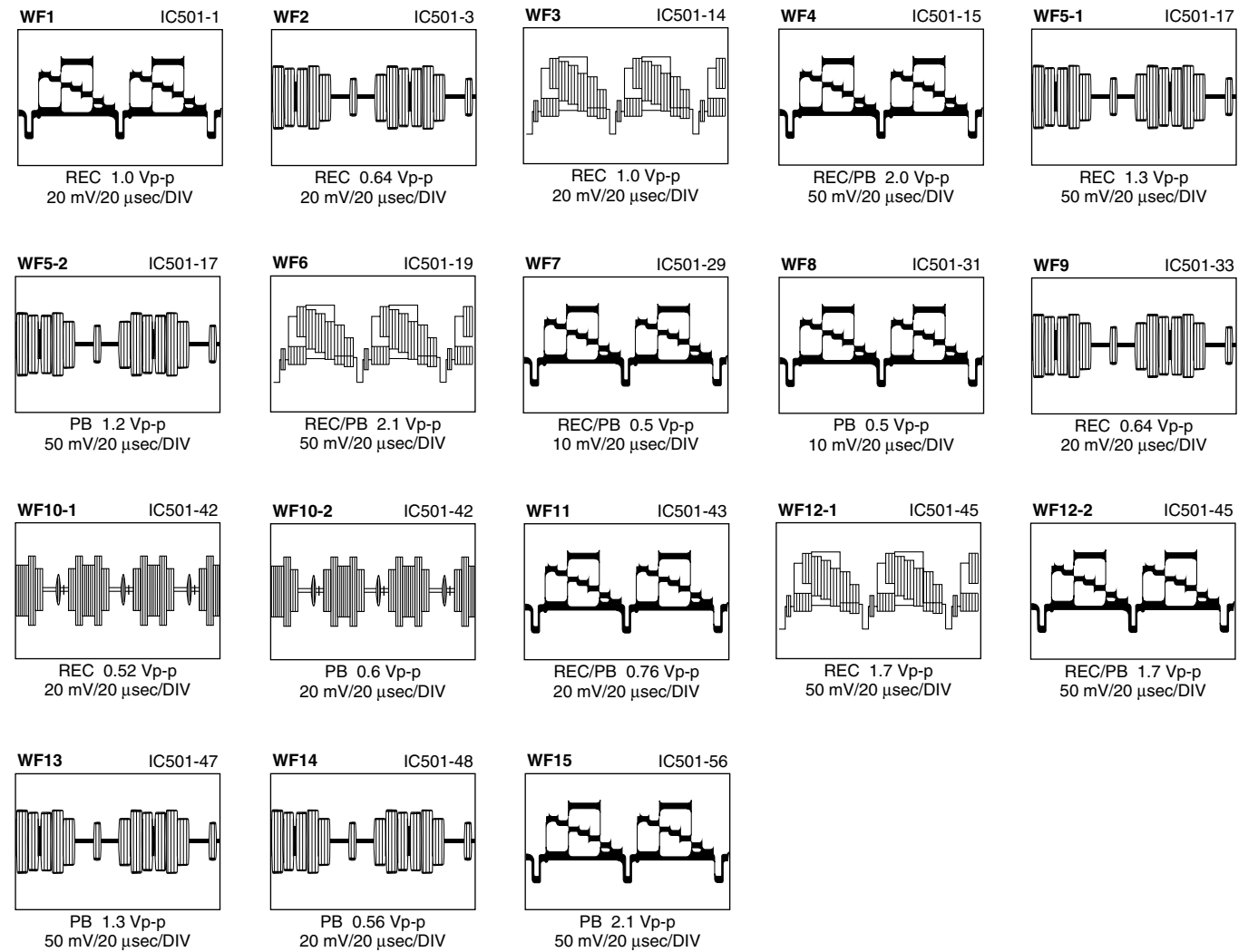


COMPONENT PARTS LOCATION GUIDE
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REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR					
C1501	A D 4C	C1520	A D 3A	R1509	A D 3B
C1502	A D 3D	C1521	A D 2C	R1510	A D 4B
CONNECTOR					
C1503	A D 4D	CN1501	A D 3A	R1511	A D 3A
C1504	A D 4C			R1514	A D 2B
IC					
C1505	A D 3D	IC1501	B C 2C	R1515	A D 2C
C1506	A D 3C			R1517	A D 2C
TRANSISTOR					
C1507	A D 2C	Q1501	A D 3B		
C1508	A D 1D	Q1502	A D 3B		
C1509	A D 2C				
C1510	A D 1B	RESISTOR			
C1511	A D 1A	R1501	A D 4C		
C1512	A D 2A	R1502	A D 2C		
C1513	A D 2B	R1503	A D 2C		
C1514	A D 2A	R1504	A D 2B		
C1515	A D 3B	R1505	A D 2B		
C1516	A D 3C	R1506	A D 2B		
C1517	A D 3B	R1507	A D 2B		
C1518	A D 3A	R1508	A D 3B		
C1519	A D 3B				

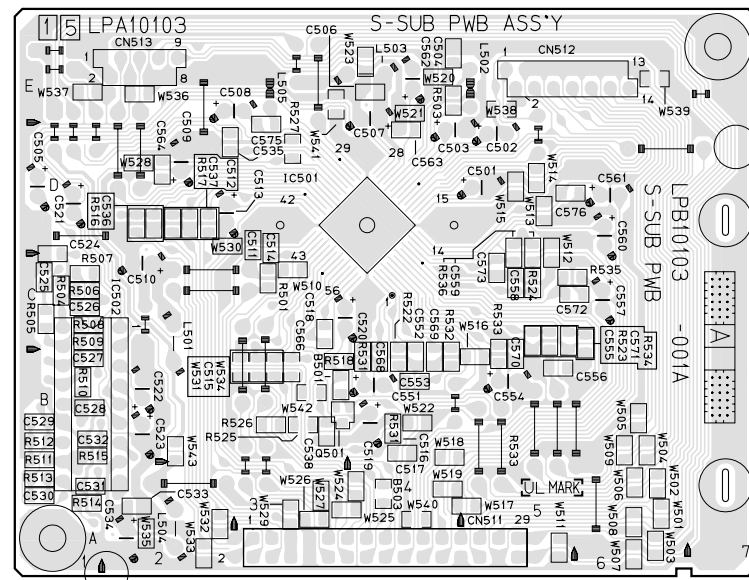
WAVEFORMS

— S-SUB —



4.19 S-SUB CIRCUIT BOARD

<15>S-SUB
LPB10103-001A



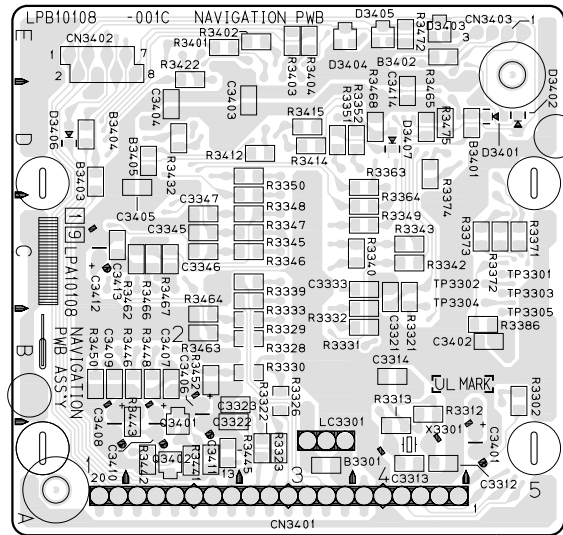
COMPONENT PARTS LOCATION GUIDE
<S-SUB>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR					
C501	A D 5D	C527	B C 1B	C568	B C 4B
C502	A D 5D	C528	B C 1B	C569	B C 4B
C503	A D 4D	C529	B C 1B	C570	B C 5B
C504	B C 4E	C530	B C 1A	C571	B C 5C
C505	A D 1D	C531	B C 1A	C572	B C 6C
C506	B C 4E	C532	B C 1B	C573	B C 5C
C507	A D 4E	C533	B C 2A	C575	B C 3D
C508	A D 2E	C534	A D 2A	C576	B C 5D
C509	A D 2D	C535	B C 2D	CONNECTOR	
C510	A D 2C	C536	B C 2D	CN511	A D 3A
C511	B C 3C	C537	B C 2D	CN512	A D 5E
C512	B C 2D	C538	B C 3B	CN513	A D 1E
C513	A D 2D	C539	A D 4B	IC	
C514	B C 3C	C540	B C 4B	IC501	B C 4D
C515	B C 3B	C541	B C 4B	IC502	A D 1C
C516	B C 4B	C542	B C 5C	COIL	
C517	B C 4B	C543	B C 5B	L501	A D 2B
C518	B C 3C	C544	A D 6C	L502	A D 5E
C519	A D 4B	C545	B C 5C	L503	A D 3E
C520	A D 3C	C546	B C 5C	L504	A D 2A
C521	A D 1D	C547	A D 6D	L505	A D 3E
C522	A D 2B	C548	A D 6D	TRANSISTOR	
C523	A D 2B	C549	A D 4E	Q501	B C 3B
C524	B C 1C	C550	A D 4D	RESISTOR	
C525	B C 1C	C551	A D 2D	R501	B C 3C
C526	B C 1C	C552	B C 3B		

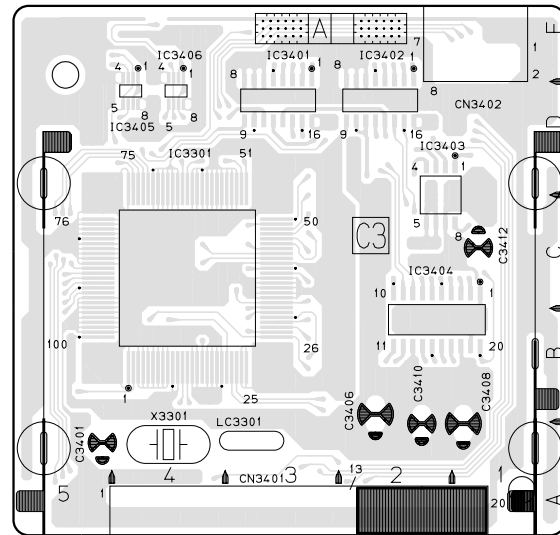
4.20 NAVIGATION CIRCUIT BOARD

<19> NAVIGATION
LPB10108-001C

— FOIL SIDE(B) —



— COMPONENT SIDE(A) —



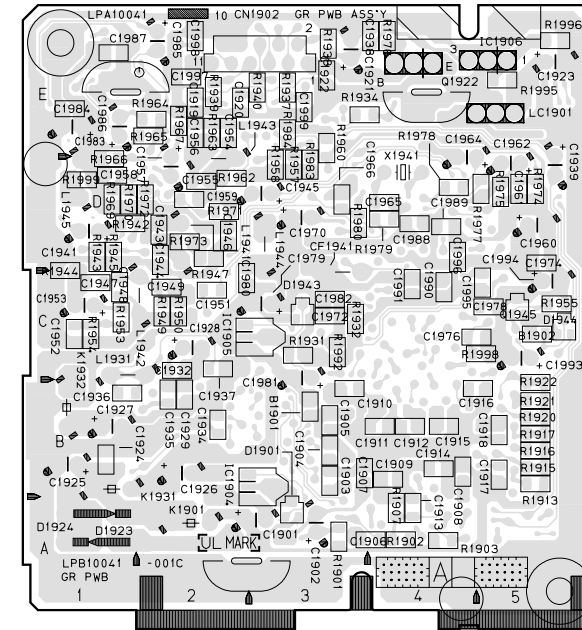
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CAPACITOR		CONNECTOR		R3312	B C 4B	R3371	B C 5C	R3466	B C 2C						
C3312	B C 4A	CN3401	A D 4A	R3313	B C 4A	R3372	B C 5C	R3467	B C 2C						
C3313	B C 4A	CN3402	A D 1E	R3321	B C 4C	R3373	B C 5C	R3468	B C 4D						
C3314	B C 4B			R3322	B C 3A	R3374	B C 4D	R3472	B C 4E						
		DIODE		R3323	B C 3A	R3386	B C 5B	R3475	B C 4D						
C3321	B C 4C	D3401	B C 5D	R3324	B C 3B	R3401	B C 2E								
C3322	B C 2B	D3402	B C 5D	R3325	B C 3B	R3402	B C 3E								
C3323	B C 4C	D3403	B C 4E	R3326	B C 3B	R3403	B C 3E								
C3333	B C 4C	D3404	B C 3E	R3327	B C 3B	R3404	B C 3E								
C3345	B C 2C	D3405	B C 4E	R3328	B C 3B	R3412	B C 3D								
C3346	B C 2C	D3406	B C 1D	R3329	B C 3B	R3414	B C 3D								
C3347	B C 2C	D3407	B C 4D	R3330	B C 3C	R3415	B C 3D								
C3401	A D 5A			R3331	B C 3C	R3422	B C 2E								
C3402	B C 5B			R3332	B C 3C	R3432	B C 2D								
C3403	B C 3D	IC3301	A C 4C	R3333	B C 3C	R3441	B C 2A								
C3404	B C 2D	IC3401	A C 3D	R3334	B C 4C	R3442	B C 2A								
C3405	B C 2D	IC3402	A C 2D	R3335	B C 4C	R3443	B C 2A								
C3406	A D 2B	IC3403	A C 2D	R3336	B C 3C	R3444	B C 2A								
C3407	A D 2B	IC3404	A C 2B	R3337	B C 3C	R3445	B C 2A								
C3408	A D 1B	IC3405	A C 4D	R3338	B C 3C	R3446	B C 2B								
C3409	B C 1B	IC3406	A C 4D	R3339	B C 3C	R3448	B C 2B								
C3410	A D 2B			R3340	B C 4C	R3450	B C 1B								
C3411	B C 2A			R3341	B C 3D	R3452	B C 2B								
C3412	A D 1C	Q3401	B C 2B	R3342	B C 3D	R3462	B C 2C								
C3413	B C 1C	Q3402	B C 2A	R3343	B C 4D	R3463	B C 2B								
C3414	B C 4D			R3344	B C 4D	R3464	B C 2B								
				R3363	B C 4D	R3465	B C 4D								
				R3364	B C 4C										

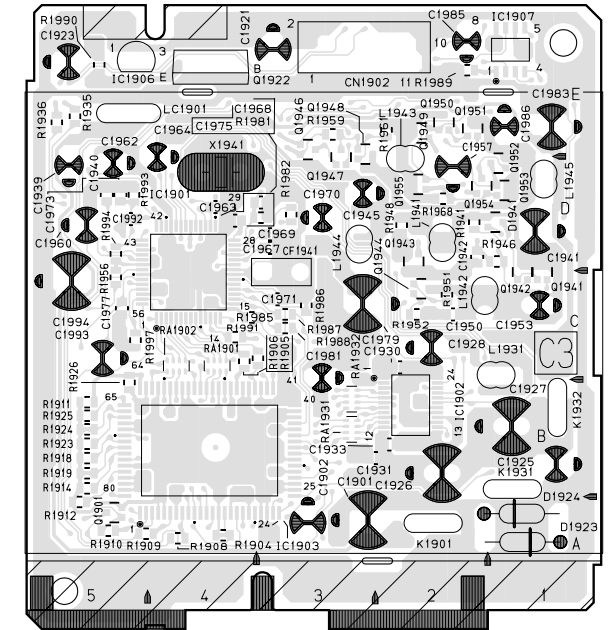
4.21 GR CIRCUIT BOARD

<96>GR
LPB10041-001C

— FOIL SIDE(B) —



— COMPONENT SIDE(A) —

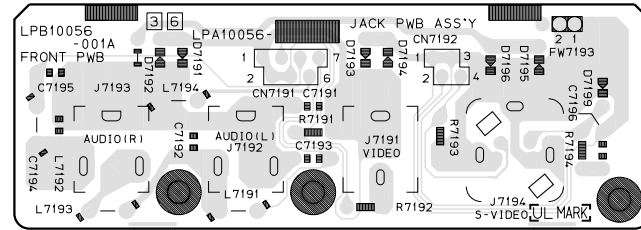


COMPONENT PARTS LOCATION GUIDE <GR>

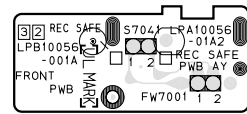
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CAPACITOR		CONNECTOR		C1933	A C 2B	C1966	B C 3D	C1943	A C 2D	R1919	A C 5B	R1957	B C 3E	R1990	A C 5F
C1901	A D 2B	CN1902	A D 3F	C1934	B C 2B	C1967	B C 3D	C1944	A C 2D	R1920	B C 5B	R1958	B C 2E	R1991	A C 3C
C1902	A D 3A			C1935	B C 2C	C1968	A C 3D	C1945	B C 5C	R1921	B C 5C	R1959	A C 3E	R1992	B C 4D
C1903	B C 3B			C1936	B C 1C	C1969	A C 3D	C1946	A C 3E	R1922	B C 5C	R1960	B C 3E	R1993	A C 3C
C1904	B C 3B			C1937	B C 2C	C1970	A C 3D	C1947	A C 3E	R1923	A C 5B	R1961	A C 2E	R1994	A C 5D
C1905	B C 3B			C1938	B C 3F	C1971	A C 3C	C1948	A C 2E	R1924	A C 5B	R1962	B C 2E	R1995	B C 4E
C1906	B C 3A			C1939	A D 5E	C1972	B C 3C	C1949	A C 2E	R1925	A C 5B	R1963	B C 2E	R1996	B C 5F
C1907	B C 3B			C1940	A C 5D	C1973	A C 4D	C1950	A C 2E	R1926	A C 4C	R1964	B C 1E	R1997	A C 4C
C1908	B C 4B			C1941	A D 1D	C1974	B C 5D	C1951	A C 1E	R1931	B C 3C	R1965	B C 1E	R1998	B C 4C
C1909	B C 3B			C1942	A C 1D	C1975	A C 3D	C1952	A C 1E	R1932	B C 3C	R1966	B C 1E	R1999	B C 4C
C1910	B C 3C			C1943	B C 1D	C1976	B C 4C	C1953	A C 1D	R1934	B C 3E	R1967	B C 2E		
C1911	B C 3B			C1944	B C 1D	C1977	A C 4C	C1954	A C 1D	R1935	A C 5E	R1968	A C 2D		
C1912	B C 4B			C1945	A D 2D	C1978	B C 4C	C1955	A C 2D	R1936	A C 5E	R1969	B C 1D		
C1913	B C 4B			C1946	B C 2D	C1979	B C 4C			R1937	B C 3E	R1970	B C 1D		
C1914	B C 4B			C1947	B C 1D	C1980	B C 2D			R1938	B C 3F	R1971	B C 2D		
C1915	B C 4B			C1948	B C 1D	C1981	A D 3C			R1939	B C 2E	R1972	B C 1D		
C1916	B C 4C			C1949	A C 2C	C1982	B C 3C			R1940	B C 2E	R1973	B C 2D		
C1917	B C 4B			C1950	A C 2D	C1983	A D 1E			R1941	A C 1D	R1974	B C 5D		
C1918	B C 4E			C1951	B C 2D	C1984	B C 1E			R1942	B C 1D	R1975	B C 4D		
C1919	B C 2B			C1952	B C 1C	C1985	A D 1F			R1943	B C 1D	R1976	B C 4F		
C1920	B C 2E			C1953	A D 1C	C1986	A D 1E			R1944	B C 1D	R1977	B C 4D		
C1921	A D 3F			C1954	B C 2E	C1987	B C 1F			R1945	B C 1D	R1978	B C 4D		
C1922	B C 3E			C1955	B C 2E	C1988	B C 4D			R1946	A C 1D	R1979	B C 3D		
C1923	A D 5F			C1956	B C 2E	C1989	B C 4D			R1947	B C 2D	R1980	B C 3D		
C1924	B C 1B			C1957	A D 2E	C1990	B C 4D			R1948	A C 2D	R1981	A C 3D		
C1925	A D 1B			C1958	B C 1E	C1991	B C 4D			R1949	B C 1C	R1982	A C 3D		
C1926	A D 2B			C1959	B C 2D	C1992	A C 4D			R1950	B C 2C	R1983	B C 3E		
C1927	A D 1B			C1960	A D 5D	C1993	A C 4D			R1951	A C 2D	R1984	B C 3E		
C1928	A D 2C			C1961	B C 5D	C1994	A D 5D			R1952	A C 2C	R1985	A C 3C		
C1929	B C 2C			C1962	A D 5E	C1995	B C 4D			Q1922	A D 4F	R1986	A C 3C		
C1930	A C 2C			C1963	A C 4D	C1996	B C 4D			Q1941	A C 1D	R1987	A C 3C		
C1931	A C 2B			C1964	A D 4E	C1997	B C 2E			Q1942	A C 1D	R1988	A C 3C		
C1932	B C 2C			C1965	B C 3D	C1998	B C 2F					R1989	A C 1E		

4.22 SW/DISPLAY, REC SAFETY, JACK AND JOG CIRCUIT BOARDS

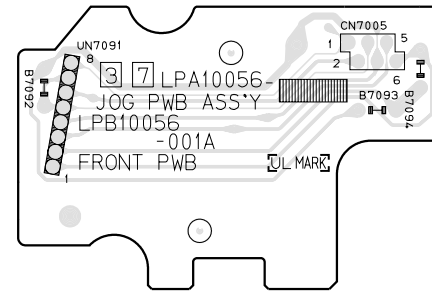
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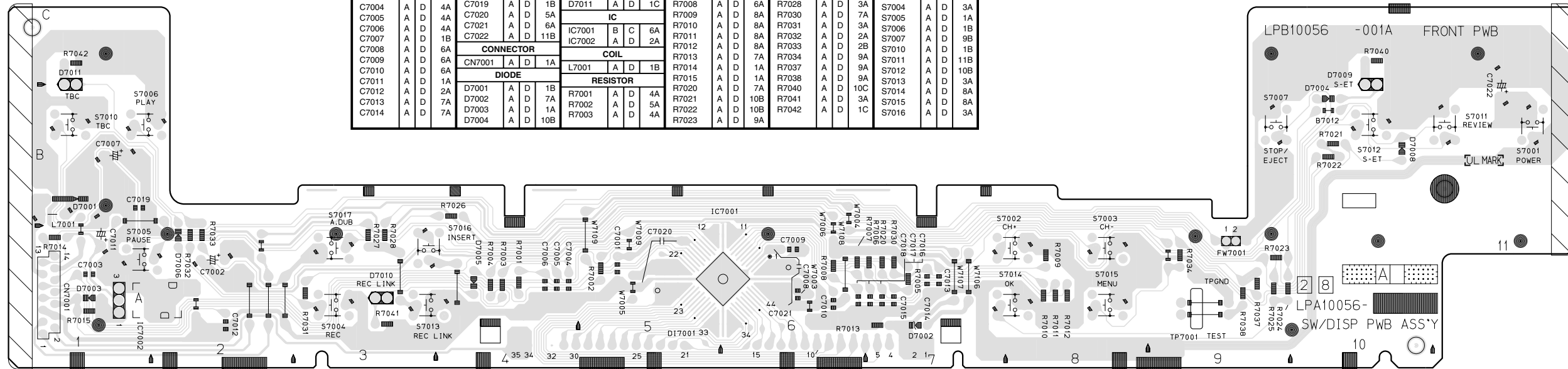
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LPB10056-001A



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LPB10056-001A



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LPB10056-001A

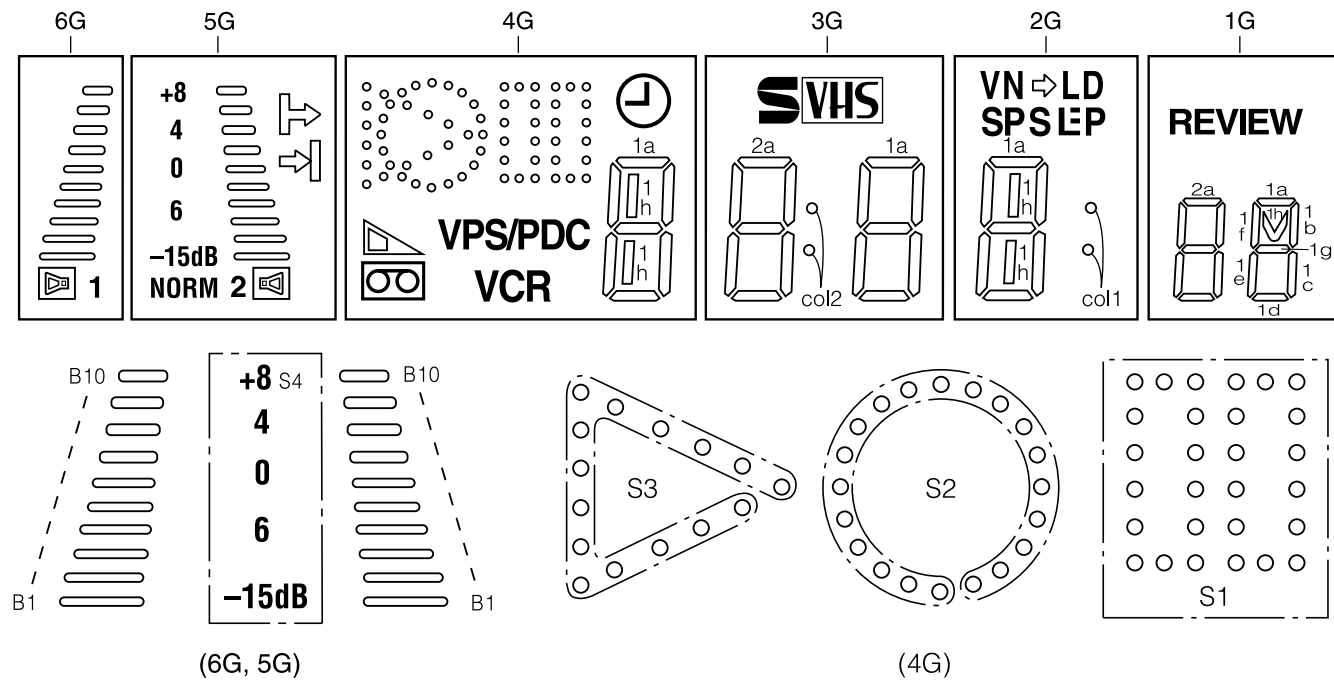


COMPONENT PARTS LOCATION GUIDE <SW/DISPLAY>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR											
C7001	A D 5A	C7015	A D 7A	D7005	A D 4A	R7004	A D 4A	R7024	A D 9A	SWITCH	
C7002	A D 2A	C7016	A D 7A	D7006	A D 2A	R7005	A D 7A	R7025	A D 9A	S7001	A D 11B
C7003	A D 1A	C7017	A D 7A	D7008	A D 10B	R7006	A D 7A	R7026	A D 4B	S7002	A D 8A
C7004	A D 4A	C7018	A D 6A	D7010	A D 3A	R7007	A D 6A	R7027	A D 3B	S7003	A D 8A
C7005	A D 4A	C7019	A D 1B	D7011	A D 1C	R7008	A D 6A	R7028	A D 3A	S7004	A D 3A
C7006	A D 4A	C7020	A D 5A	IC		R7009	A D 8A	R7030	A D 7A	S7005	A D 1A
C7007	A D 1B	C7021	A D 6A	IC7001	B C 6A	R7010	A D 8A	R7031	A D 3A	S7006	A D 1B
C7008	A D 6A	C7022	A D 11B	IC7002	A D 2A	R7011	A D 8A	R7032	A D 2A	S7007	A D 9B
C7009	A D 6A	CONNECTOR		COIL		R7012	A D 8A	R7033	A D 2B	S7010	A D 1B
C7010	A D 6A	CN7001	A D 1A	L7001	A D 1B	R7013	A D 7A	R7034	A D 9A	S7011	A D 11B
C7011	A D 1A	DIODE		RESISTOR		R7014	A D 1A	R7037	A D 9A	S7012	A D 10B
C7012	A D 2A	D7001	A D 1B	R7001	A D 4A	R7015	A D 1A	R7038	A D 9A	S7013	A D 3A
C7013	A D 7A	D7002	A D 7A	R7002	A D 5A	R7020	A D 7A	R7040	A D 10C	S7014	A D 8A
C7014	A D 7A	D7003	A D 1A	R7003	A D 4A	R7021	A D 10B	R7041	A D 3A	S7015	A D 8A
		D7004	A D 10B	R7004	A D 2A	R7022	A D 10B	R7042	A D 1C	S7016	A D 3A
				R7005	A D 7A	R7023	A D 9A				

4.23 FDP GRID ASSIGNMENT AND ANODE CONNECTION

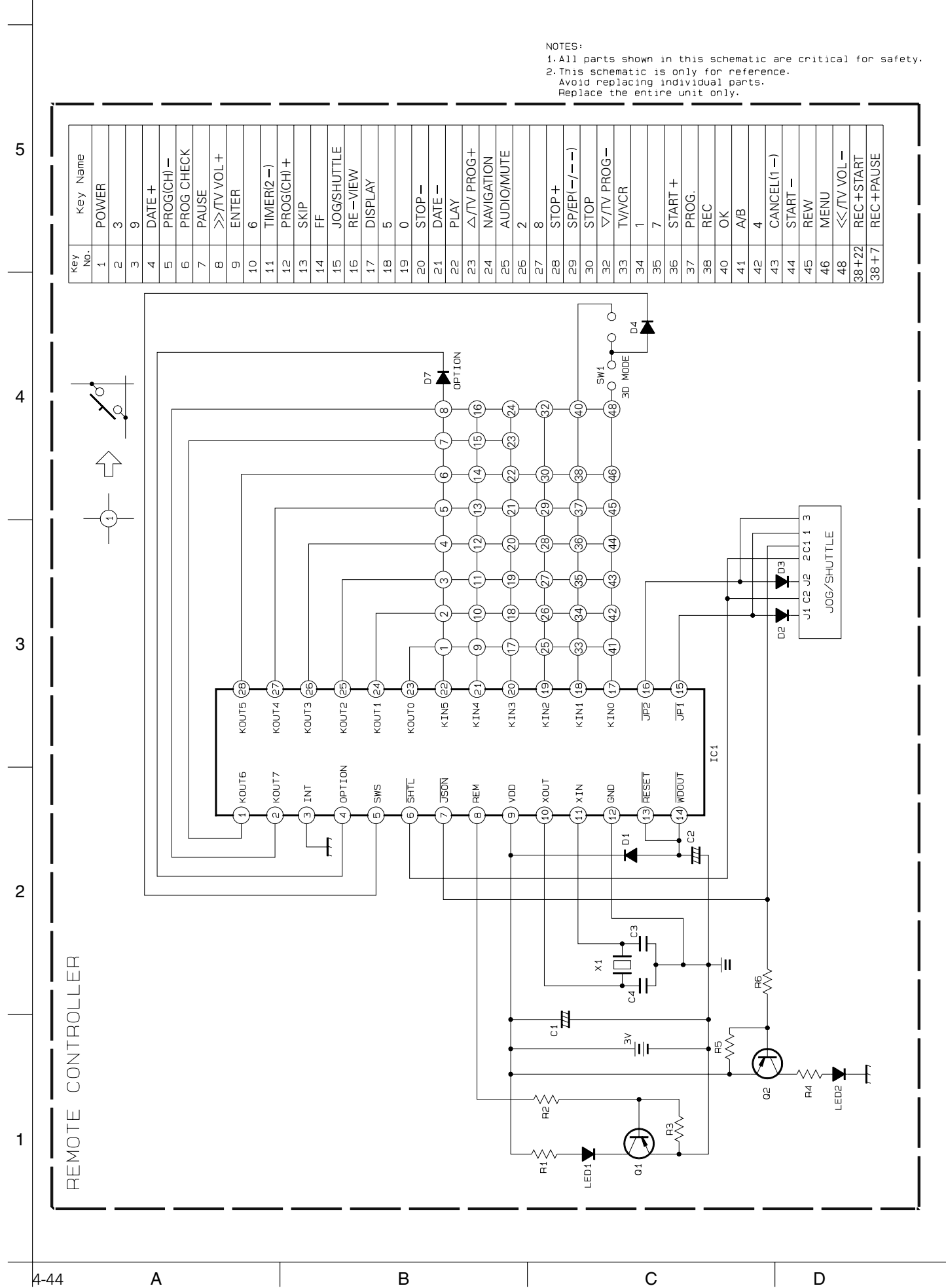
GRID ASSIGNMENT



ANODE CONNECTION

	6G	5G	4G	3G	2G	1G
P 1	—	→	S2	1a	1a	1a
P 2	—	←	S1	1b	1b	1b
P 3	—	S4	S3	1f	1f	1f
P 4	—	NORM	VPS/PDC	1g	1g	1g
P 5	1	2	⌚	1c	1c	1c
P 6	📺	📺	📐	1e	1e	1e
P 7	B10	B10	📺	1d	1d	1d
P 8	B9	B9	VCR	col2	1h	1h
P 9	B8	B8	1a	2a	col1	2a
P10	B7	B7	1b	2b	↔	2b
P11	B6	B6	1f	2f	VN	2f
P12	B5	B5	1g	2g	LD	2g
P13	B4	B4	1c	2c	SP	2c
P14	B3	B3	1e	2e	S _(SEP)	2e
P15	B2	B2	1d	2d	= _(SEP)	2d
P16	B1	B1	1h	SVHS	LP _(SEP)	REVIEW

4.24 REMOTE CONTROL SCHEMATIC DIAGRAM



4.25 VOLTAGE CHARTS

<VIDEO/AUDIO>

MODE PIN NO.	REC	PLAY
IC1		
1	4.4	2.2
2	2.9	2.9
3	2.5	2.5
4	1.9	1.6
5	1.9	1.6
6	2.4	2.1
7	1.5	0.9
8	0	0
9	2.6	3.1
10	3.0	3.0
11	3.0	3.0
12	2.8	2.6
13	3.0	3.0
14	3.7	2.4
15	0	0
16	2.8	2.8
17	1.9	1.9
18	2.8	2.8
19	0	1.8
20	2.8	2.8
21	1.6	1.9
22	2.8	2.8
23	3.1	2.9
24	5.0	5.0
25	0.4	0.4
26	0	0
27	1.3	2.3
28	2.8	2.4
29	1.9	1.9
30	2.1	2.1
31	0	0
32	2.7	2.7
33	5.0	5.0
34	2.7	2.2
35	5.0	5.0
36	2.7	2.5
37	2.3	2.1
38	0.2	0.2
39	1.2	1.2
40	-	-
41	2.5	2.5
42	-	-
43	0	0
44	2.2	2.2
45	4.6	4.6
46	4.6	4.6
47	3.0	3.0
48	2.5	2.5
49	5.0	5.0
50	2.5	2.5
51	2.8	2.8
52	2.3	2.3
53	2.3	2.3
54	2.4	2.4
55	2.1	2.1
56	0.5	0.5
57	2.3	1.8
58	8.2	8.2
59	4.8	4.6
60	4.6	4.6
61	4.1	3.8
62	4.1	3.7
63	2.3	2.3
64	2.3	2.3
65	0.6	2.7
66	3.2	3.2
67	3.3	3.3
68	3.3	3.3
69	2.3	2.3

MODE PIN NO.	REC	PLAY
70	0	0
71	0.3	0.3
72	0.2	0.2
73	0.2	0.2
74	2.3	2.3
75	2.7	2.7
76	0	0
77	2.7	2.7
78	0.3	0.3
79	0.2	0.2
80	0.2	0.2
81	2.3	2.3
82	0.8	0.8
83	0	0
84	2.3	2.3
85	2.3	2.3
86	2.4	2.4
87	1.6	1.6
88	2.3	2.5
89	2.3	2.3
90	2.3	2.3
91	0	0
92	0	0
93	0	2.5
94	0	1.0
95	0	0
96	2.4	2.4
97	2.7	2.4
98	2.5	2.4
99	5.0	5.0
100	5.0	5.0
101	0	0
102	0	0
103	0	0
104	2.3	2.3
105	2.5	2.3
106	2.4	2.3
107	5.0	5.0
108	0	0
109	0	0
110	0	0
111	0	2.4
112	2.5	2.5
113	0.5	0.5
114	0	0
115	2.5	2.5
116	2.5	2.5
117	2.5	2.5
118	0	0
119	2.5	2.5
120	0	0
Q5		
E	5.0	2.8
C	0	0
B	4.4	2.1
Q7		
E	1.6	1.6
C	3.4	3.4
B	2.3	2.3
Q8		
E	2.8	2.8
C	5.0	5.0
B	3.4	3.4
Q9		
E	3.4	3.4
C	0	0
B	2.8	2.8
Q12		
E	2.1	2.1
C	0	0

MODE PIN NO.	REC	PLAY
B	1.4	1.4
Q17		
E	0	0
C	0	0
B	4.8	4.8
Q21		
E	2.3	2.3
C	0	0
B	1.7	1.7
Q24		
E	2.8	2.8
C	0	0
B	2.2	2.2
Q38		
E	3.3	3.3
C	5.0	5.0
B	4.0	4.0
Q401		
E	9.4	0
C	0	0
B	8.9	0
Q402		
E	7.3	0
C	0	0
B	6.8	0
Q403		
E	0	0
C	0	0
B	4.9	0
Q404		
E	0	0
C	0	11.2
B	9.2	0
Q405		
E	11.1	11.3
C	11.1	0
B	10.4	11.2
Q2001		
E	-16.1	0
C	0	0
B	-22.5	0.7
Q2002		
E	-16.1	0
C	0	0
B	-22.1	0.7
Q2003		
E	5.0	5.0
C	-22.3	5.0
B	5.0	0
Q2004		
E	0	0
C	5.0	0
B	0.6	4.2
Q2052		
E	10.9	11.0
C	10.6	4.0
B	10.1	11.0
Q2053		
E	0	0
C	0	10.9
B	4.8	0
Q2054		
E	10.6	4.0
C	10.5	0.3
B	9.9	4.0
Q2061		
E	0	0
C	7.5	0.3
B	0	0.3
Q2062		

MODE PIN NO.	REC	PLAY
E	10.6	4.0
C	10.5	0.3
B	9.9	4.0
Q2102		
E	0	0
C	0	0
B	4.6	4.6
Q2103		
E	0	0
C	0	0
B	-0.2	-0.2
Q2104		
E	4.9	4.9
C	-0.3	-0.3
B	4.9	4.9
Q2105		
E	0	0
C	4.9	4.9
B	0	0
Q2108		
E	2.0	2.0
C	8.4	8.4
B	2.6	2.6
Q2251		
E	5.0	5.0
C	1.7	1.9
B	5.0	5.0
CN1		
4	0	0
5	0	0
6	0	0
7	0	0
8	2.5	2.3
9	2.5	2.3
10	2.5	2.3
11	2.5	2.3
12	2.7	2.4
13	2.7	2.4
14	2.7	2.4
15	0	0
16	0	0
CN2001		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	2.3	2.5
7	2.3	2.5
CN2002		
1	0	0
2	0	0
CN2051		
1	7.6	0.2
2	0	0
3	0	0
4	0	0

<AUDIO ERASE>

MODE PIN NO.	REC	PLAY
Q2051	-	-
CN2052		
1	7.6	0.2
2	0	0
3	0	0
4	0	0

<VSC>

MODE PIN NO.	REC	PLAY
IC2501		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	-	-
11	-	-
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	5.0	5.0
19	0	1.4
20	5.0	5.0
21	0	0
22	0	0
23	0	0
24	5.0	5.0
25	5.0	5.0
26	5.0	5.0
27	5.0	5.0
28	5.0	5.0
29	5.0	5.0
30	5.0	5.0
31	5.0	5.0
32	0	0
33	0	0
34	0	0
35	0	0
36	0	0
37	5.0	5.0
38	0	0
39	0	0
40	0	0
41	0	0
42	0	0
43	2.4	2.4
44	0	0
45	2.5	2.5
46	2.5	2.5
47	2.5	2.5
48	2.5	2.5
49	2.5	2.5
50	2.5	2.5
51	2.5	2.5
52	2.5	2.5
53	5.0	5.0

MODE PIN NO.	REC	PLAY
54	0.6	0.4
55	0	0
56	0	0
57	0	0
58	4.9	4.9
59	5.0	5.0
60	0	0
61	5.0	5.0
62	0	0
63	0	0
64	0	0
Q2501		
E	0	0
C	0	0
B	0.4	0.2
Q2502		
E	0	0
C	0.4	0.2
B	0	0

<SYSTEM CONTROL>

MODE PIN NO.	REC	PLAY
IC3001		
1	-	2.5
2	0	0
3	-	2.5
4	2.4	2.4
5	0	0.4
6	2.5	2.5
7	2.4	2.4
8	2.4	2.4
9	5.0	5.0
10	5.0	5.0
11	0	0
12	0	0
13	0	2.1
14	4.7	4.7
15	4.3	4.6
16	0.6	2.7
17	0	0
18	0	0
19	3.3	3.3
20	1.1	1.1
21	0	0
22	0	1.0
23	0	0
24	4.8	4.8
25	0	0
26	5.0	5.0
27	5.0	5.0
28	5.0	5.0
29	4.9	4.9
30	0	0
31	0	0
32	0	0
33	0	0
34	0	0
35	0	0
36	0	0
37	0	0
38	0	1.8
39	4.3	4.3
40	0	0

MODE PIN NO.	REC	PLAY
41	4.9	4.9
42	4.4	4.4
43	0	0
44	0	0
45	4.9	4.9
46	0	0
47	0	0
48	0.2	0.2
49	4.6	4.6
50	4.6	4.6
51	4.9	4.9
52	1.1	1.1
53	4.3	4.3
54	0	-
55	-	-
56	0	0
57	0.3	0
58	5.0	0
59	0.1	0.1
60	0	0
61	0	0
62	0	0
63	0	0
64	-	-
65	-	-
66	-	-
67	-	-
68	0	0
69	-	-
70	5.0	5.0
71	5.0	5.0
72	4.6	4.6
73	0	0
74	0	0
75	4.7	4.7
76	4.5	4.5
77	0	0
78	0	0
79	4.8	4.8
80	0	0
81	5.0	5.0
82	5.0	5.0
83	2.4	2.4
84	0	0
85	0	0
86	4.7	4.7
87	4.9	0
88	5.0	5.0
89	0	0
90	0	0
91	3.0	3.0
92	5.0	5.0
93	0	0
94	5.0	5.0
95	5.0	5.0
96	0	0
97	5.0	5.0
98	0.3	0.3
99	0	2.5
100	2.5	2.5
101		

<TUNER>

MODE PIN NO.	REC	PLAY
Q6501		
E	0	0
C	0	0
B	4.6	4.6
Q6502		
E	0	0
C	0	0
B	4.6	4.6
Q6551		
E	9.0	9.0
C	10.9	10.9
B	9.7	9.7
CN6701		
1	0	0
2	4.7	4.7
3	4.7	4.7
4	4.6	4.6
5	0	0
6	0	0
7	9.0	9.0
8	0	0
9	2.2	2.2

<CONNECTION>

MODE PIN NO.	REC	PLAY
Q7201		
E	0	0
C	5.0	5.0
B	0	0
CN501		
1	2.1	2.1
2	0	0
3	0.6	2.5
4	5.1	5.1
5	2.1	2.1
6	0.1	5.0
7	3.3	3.3
8	0	0
9	2.9	2.9
10	0	0
11	4.6	4.6
12	4.6	4.6
13	0	0
14	0.7	0.7
15	2.5	2.5
16	0	0
17	0.4	0.4
CN502		
1	0.2	5.0
2	4.6	4.6
3	4.6	4.6
4	2.1	2.1
5	5.0	5.0
6	5.0	5.0
7	0	0
8	0	0
9	0.6	2.5
10	2.1	2.1
11	3.3	3.3
12	2.9	2.9
13	2.3	2.3
14	0	0
15	0	0

MODE PIN NO.	REC	PLAY
16	2.4	2.0
17	1.4	2.3
18	4.7	4.7
19	2.9	2.9
20	0.2	0.2
21	0	0
22	0	0
23	0.2	0.2
24	0	0
25	2.4	2.4
26	0	0
27	2.5	2.3
28	0	0
29	3.7	2.4
30	2.8	2.8
CN901		
1	0	0
2	0	0
3	0	0
4	0	0
CN902		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
CN903		
1	3.7	3.7
2	0	0
3	0	0
4	0	0
5	0	0
6	2.4	2.4
7	0	0
8	0	0
9	0.2	0.2
10	10.9	10.9
11	1.2	1.2
12	5.1	5.1
CN904		
1	0	0
2	4.7	4.7
3	5.0	5.0
4	0	0
5	3.1	3.1
6	4.3	4.3
7	1.2	1.2
8	4.9	4.9
9	5.0	5.0
10	4.3	4.3
11	0	0
12	2.8	2.8
CN905		
1	4.4	4.4
2	4.6	4.6
3	0	0
4	0	0
5	0	0
CN907		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0.3	0.3
9	0	0
10	0	0
CN1901		

<3D DIGITAL/4M>

MODE PIN NO.	REC	PLAY
IC1401	-	-
IC1402	-	-
IC1403	-	-
IC1404	-	-
Q1406	-	-
Q1407	-	-
Q1408	-	-
Q1410	-	-
Q1412	-	-
Q1413	-	-
Q1414	-	-
Q1417	-	-
Q1418	-	-
Q1419	-	-
CN1401		
1	2.1	2.1
2	0	0
3	0.6	2.5
4	5.1	5.1
5	2.1	2.1
6	0.1	5.0
7	3.3	3.3
8	0	0
9	2.9	2.9
10	0	0
11	4.6	4.6
12	4.6	4.6
13	0	0
14	0.7	0.7
15	2.5	2.5
16	0	0
17	2.4	2.4

<TERMINAL>

MODE PIN NO.	REC	PLAY
1	1.2	1.2
2	0	0
3	2.3	2.3
4	0	0
5	4.6	4.6
6	4.6	4.6
7	0	0
8	0	0
9	3.2	3.2
10	11.1	11.1
11	5.6	5.6
CN7103		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	2.4	2.4
7	5.0	5.0
8	4.8	4.8
9	5.0	5.0
10	4.8	4.8
11	4.4	4.4
12	1.2	1.2
13	5.0	5.0
CN912		
1	5.0	5.0
2	4.4	4.4
3	1.1	1.1
4	5.0	5.0
5	0	0
6	0.4	0.4
7	4.9	4.9
8	0	0
CN913		
1	3.7	3.7
2	0	0
3	0	0
4	0	0
5	0	0
6	2.4	2.4
7	0	0
8	0	0
9	0.2	0.2
10	10.9	10.9
11	1.2	1.2
12	5.1	5.1
CN914		
1	0	0
2	4.7	4.7
3	5.0	5.0
4	0	0
5	3.1	3.1
6	4.3	4.3
7	1.2	1.2
8	4.9	4.9
9	5.0	5.0
10	4.3	4.3
11	0	0
12	2.8	2.8
CN915		
1	4.4	4.4
2	4.6	4.6
3	0	0
4	0	0
5	0	0
CN917		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0

<DEMODULATOR>

MODE PIN NO.	REC	PLAY
8	0.3	0.3
9	0	0
10	0	0
IC1501		
1	9.0	9.0
2	4.5	4.5
3	4.4	4.4
4	4.4	4.4
5	4.5	4.5
6	4.5	4.5
7	4.4	4.4
8	4.4	4.4
9	5.4	5.4
10	3.8	3.8
11	3.0	3.0
12	4.4	4.4
13	4.5	4.5
14	0	0
15	-	-
16	-	-
17	0	0
18	4.4	4.4
19	4.6	4.6
20	4.6	4.6
21	1.3	1.3
22	5.2	5.2
23	5.1	5.1
24	4.4	4.4
25	4.5	4.5
26	4.5	4.5
27	4.5	4.5
28	3.6	3.6
CN1501		
1	0	0
2	4.7	4.7
3	4.7	4.7
4	4.6	4.6
5	0	0
6	0	0
7	9.0	9.0
8	0	0
9	2.2	2.2

<S-SUB>

MODE PIN NO.	REC	PLAY
IC501	-	-
IC502	-	-
CN511		
1	0.2	5.0
2	4.6	4.6
3	4.6	4.6
4	2.1	2.1
5	5.0	5.0

<NAVIGATION>

MODE PIN NO.	REC	PLAY
6	5.0	5.0
7	0	0
8	0	0
9	0.6	2.5
10	2.1	2.1
11	3.3	3.3
12	2.9	2.9
13	2.3	2.3
14	0	0
15	0	0
16	2.4	2.4
17	1.4	2.3
18	4.7	4.7
19	2.9	2.9
20	0.2	0.2
21	0	0
22	0	0
23	0.2	0.2
24	0	0
25	2.4	2.4
26	0	0
27	2.5	2.3
28	0	0
29	3.7	2.4
30	2.8	2.8
CN512		
1	0	0
2	3.0	3.0
3	0	0
4	2.4	2.4
5	0	0
6	2.3	2.3
7	0	0
8	0	0
9	0	0
10	-	-
11	0	0
12	0	0
13	0	0
14	0	0
IC3301	-	-
IC3401		
1	0.4	0.4
2	1.2	1.2
3	5.0	5.0
4	5.0	5.0
5	5.0	5.0
6	0	0
7	0	0
8	0	0
9	4.8	4.8
10	0	0
11	0	0
12	4.4	4.4
13	0	0
14	4.4	4.4
15	1.1	1.1
16	5.0	5.0
IC3402		
1	0.4	0.4

<SW/DISPLAY>

MODE PIN NO.	REC	PLAY
2	5.0	5.0
3	0.4	0.4
4	0.4	0.4
5	0.4	0.4
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	5.0	5.0
13	0	0
14	5.0	5.0
15	5.0	5.0
16	5.0	5.0
17	5.0	5.0
18	5.0	5.0
19	5.0	5.0
20	4.6	4.6
IC7001		
1	5.0	5.0
2	2.1	2.3
3	0	0
4	2.1	2.3
5	5.0	5.0
6	5.0	5.0
7	5.0	5.0
8	5.0	5.0
9	5.0	5.0
10	4.8	5.0
11	5.0	5.0
12	4.3	4.3
13	1.2	1.2
14	5.0	5.0
15	4.4	4.4
16	-27.1	-27.1
17	-27.1	-27.1
18	-26.9	-26.9
19	-27.1	-27.1
20	4.6	4.6

<REC SAFETY>

MODE PIN NO.	REC	PLAY
FW7001		
1	5.0	5.0
2	0	0

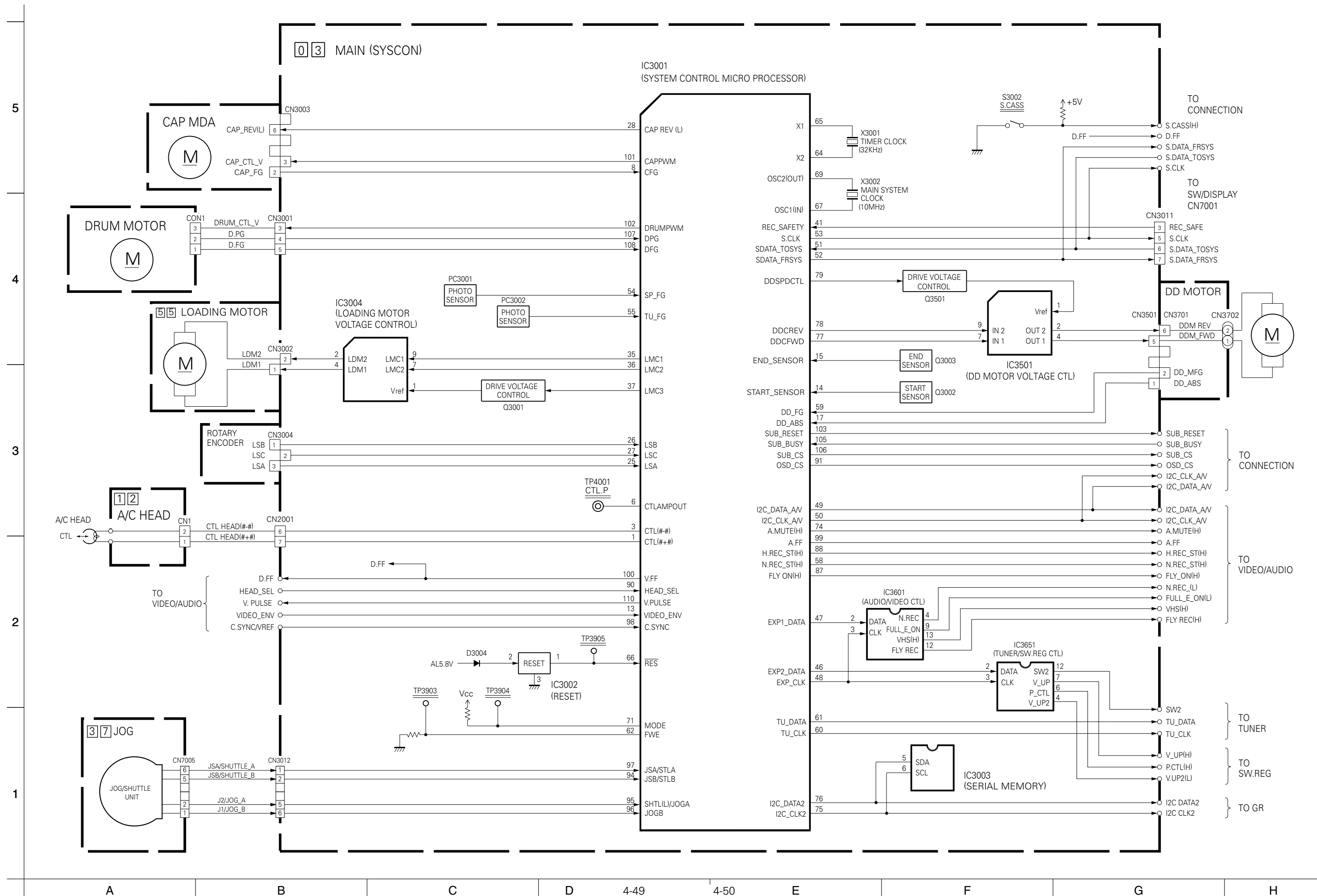
<JACK>

MODE PIN NO.	REC	PLAY
CN7191		
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
CN7192		
1	0	0
2	0	0
3	0	0
4	0	0

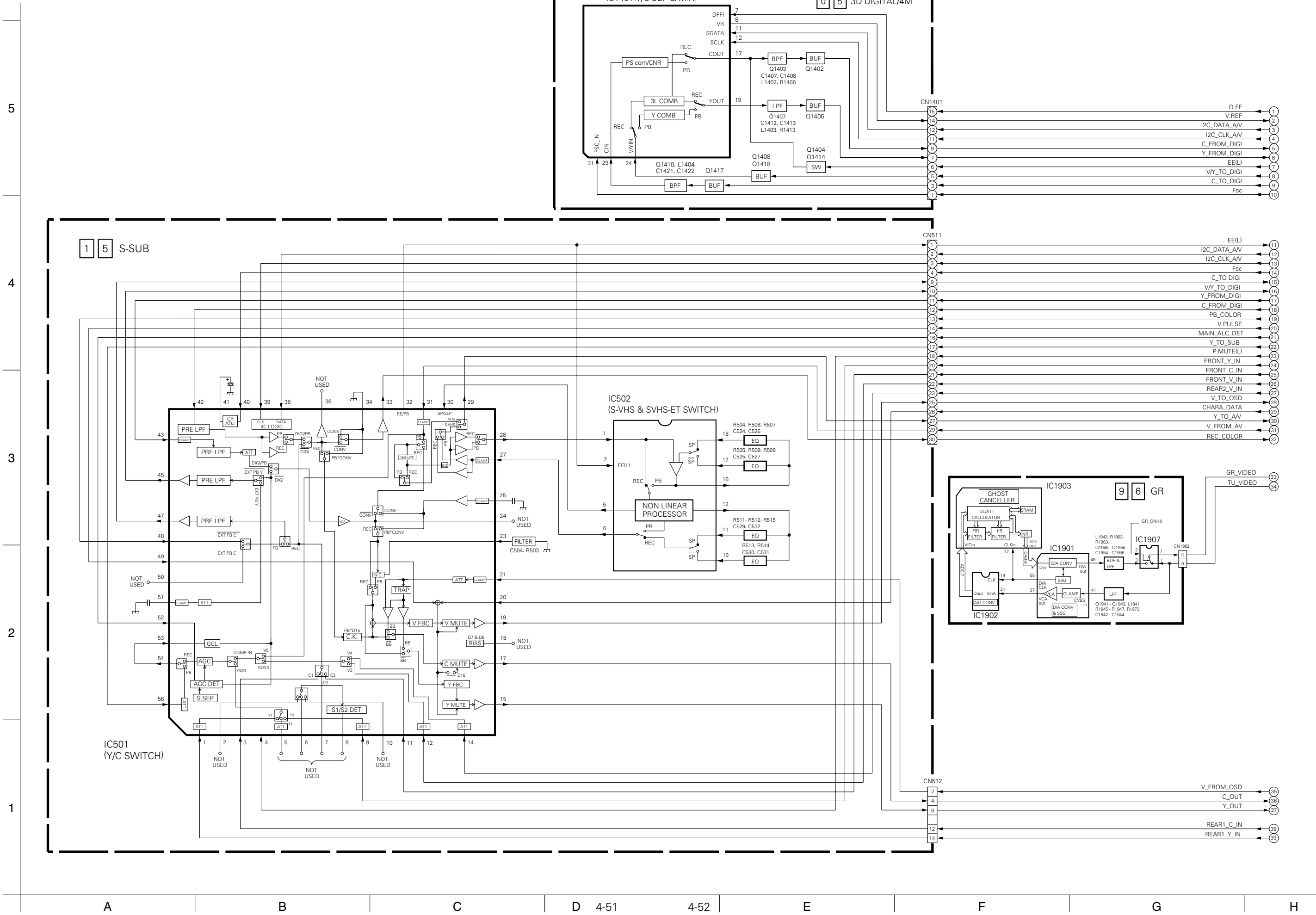
<JOG>

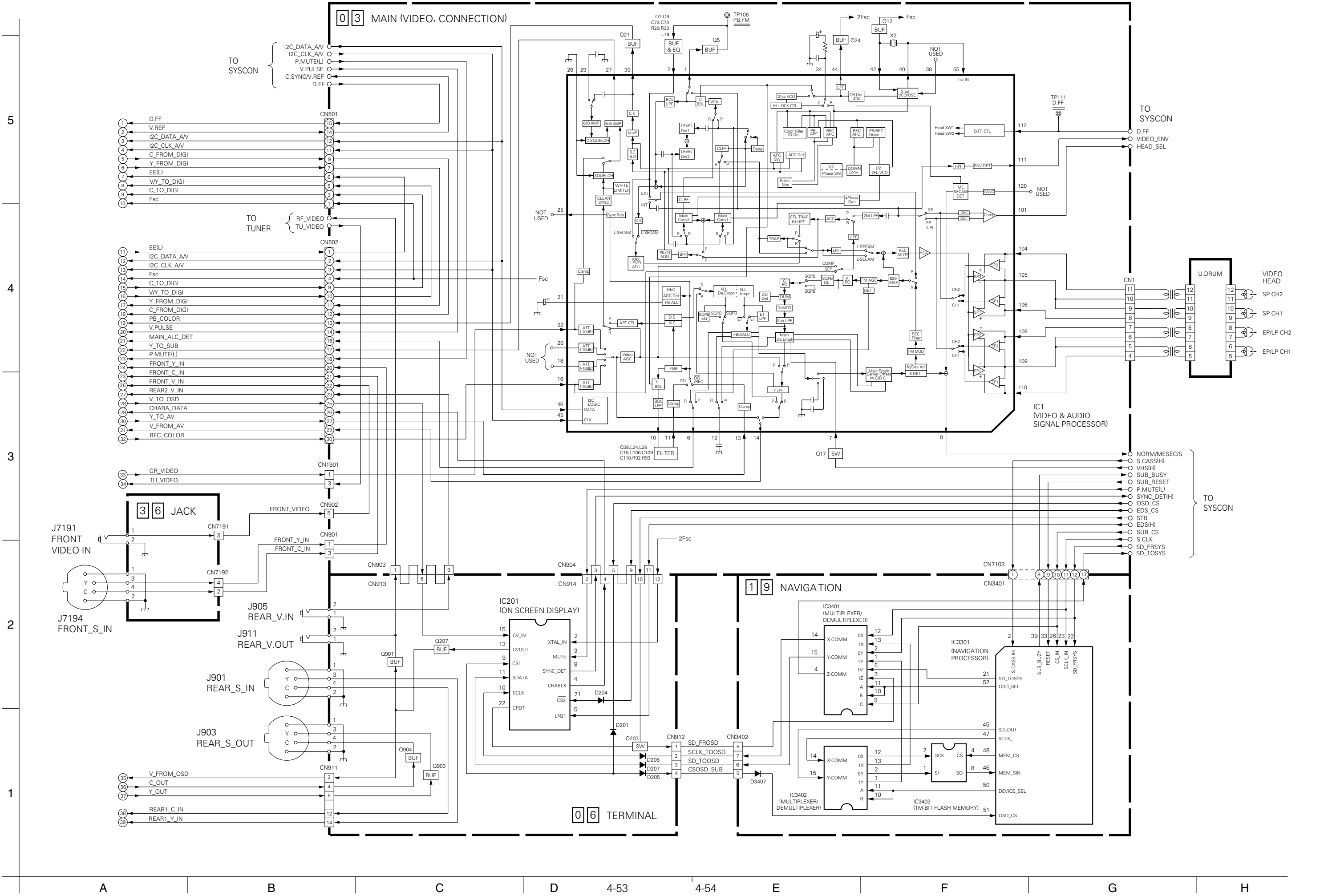
MODE PIN NO.	REC	PLAY
CN7005		
1	0	0
2	4.9	4.9
3	0	0
4	0	0
5	0	0
6	0	0
IC7002		
1	5.0	5.0
2	5.0	5.0
3	0	0
CN7001		
1	-27.2	-27.2
2	-14.8	-14.8
3	-18.4	-18.4
4	0	0
5	0	0
6	4.9	4.9
7	4.3	4.3
8	1.2	1.2
9	5.0	5.0
10	4.4	4.4
11	5.0	5.0
12	4.9	4.9
13	0	0
14	5.0	5.0
FW7001		
1	5.0	5.0
2	0	0

4.26 SYSTEM CONTROL BLOCK DIAGRAM



4.27 VIDEO BLOCK DIAGRAM





03 MAIN (VIDEO CONNECTION)

06 TERMINAL

19 NAVIGATION

IC1 (VIDEO & AUDIO SIGNAL PROCESSOR)

IC201 (ON SCREEN DISPLAY)

IC3401 (MULTIPLEXER/ DEMULTIPLEXER)

IC3402 (MULTIPLEXER/ DEMULTIPLEXER)

IC3301 (NAVIGATION PROCESSOR)

IC3403 (1M-BIT FLASH MEMORY)

U.DRUM

VIDEO HEAD
 SP CH2
 SP CH1
 EP/LP CH2
 EP/LP CH1

TO SYSCON
 I2C_DATA_AV
 I2C_CLK_AV
 P.MUTE(L)
 V.PULSE
 C.SYNC/V.REF
 D.F.F

TO TUNER
 RF_VIDEO
 TU_VIDEO

TO SYSCON
 D.F.F
 VIDEO_ENV
 HEAD_SEL

TO SYSCON
 NORM/MESEC/S
 S.CASS(H)
 VHS(H)
 SUB_BUSY
 SUB_RESET
 P.MUTE(L)
 SYNC_DET(H)
 OSD_CS
 EDS_CS
 STB
 EDS(H)
 SUB_CS
 S.CLK
 SD_FRSYS
 SD_TOSYS

V_FROM_OSD
 C_OUT
 Y_OUT
 REAR1_C_IN
 REAR1_Y_IN

5

4

3

2

1

A

B

C

D

4-53

4-54

E

F

G

H

4.28 AUDIO BLOCK DIAGRAM

