


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: 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).

2. Indications of control voltage

AUX : Active at high

AUX or AUX(L) : Active at low

3. Interpreting Connector indications



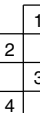
Removable connector



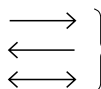
Wire soldered directly on board



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

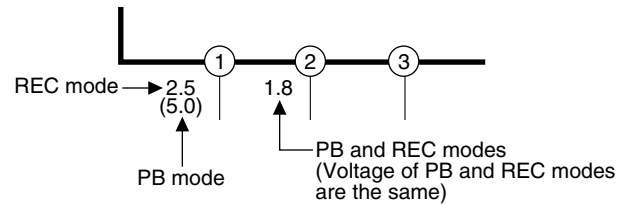
PB : REC then playback it

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

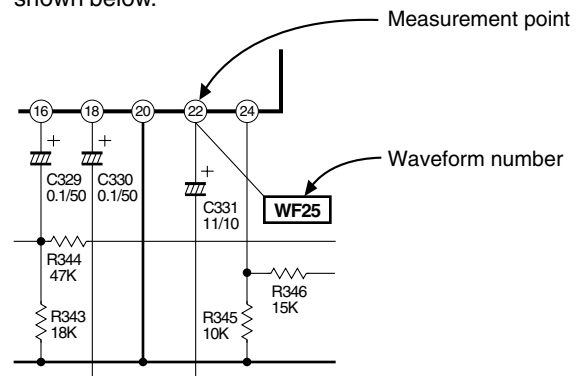
PB : REC then playback it

3) Movie Camera circuits

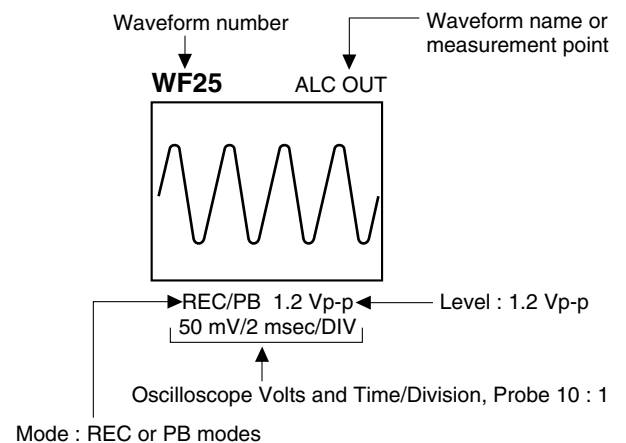
Measured using a correctly illuminated gray scale or colour bar test charts in the E-E mode

4) Indication on schematic diagram

Waveform indications on the schematic diagram are as shown below.

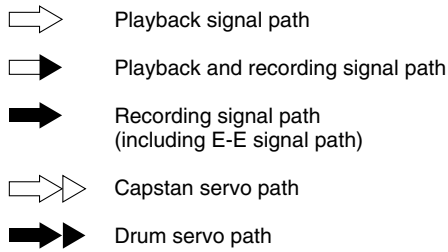


5) Waveform indications

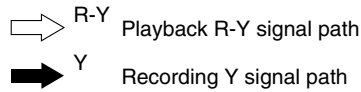


6. Signal path Symbols

The arrows indicate the signal path as follows.

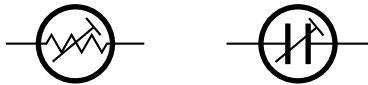


(Example)



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.



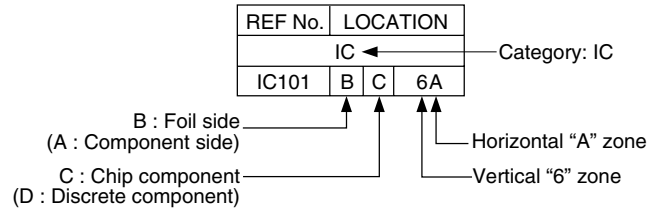
CIRCUIT BOARD NOTES

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

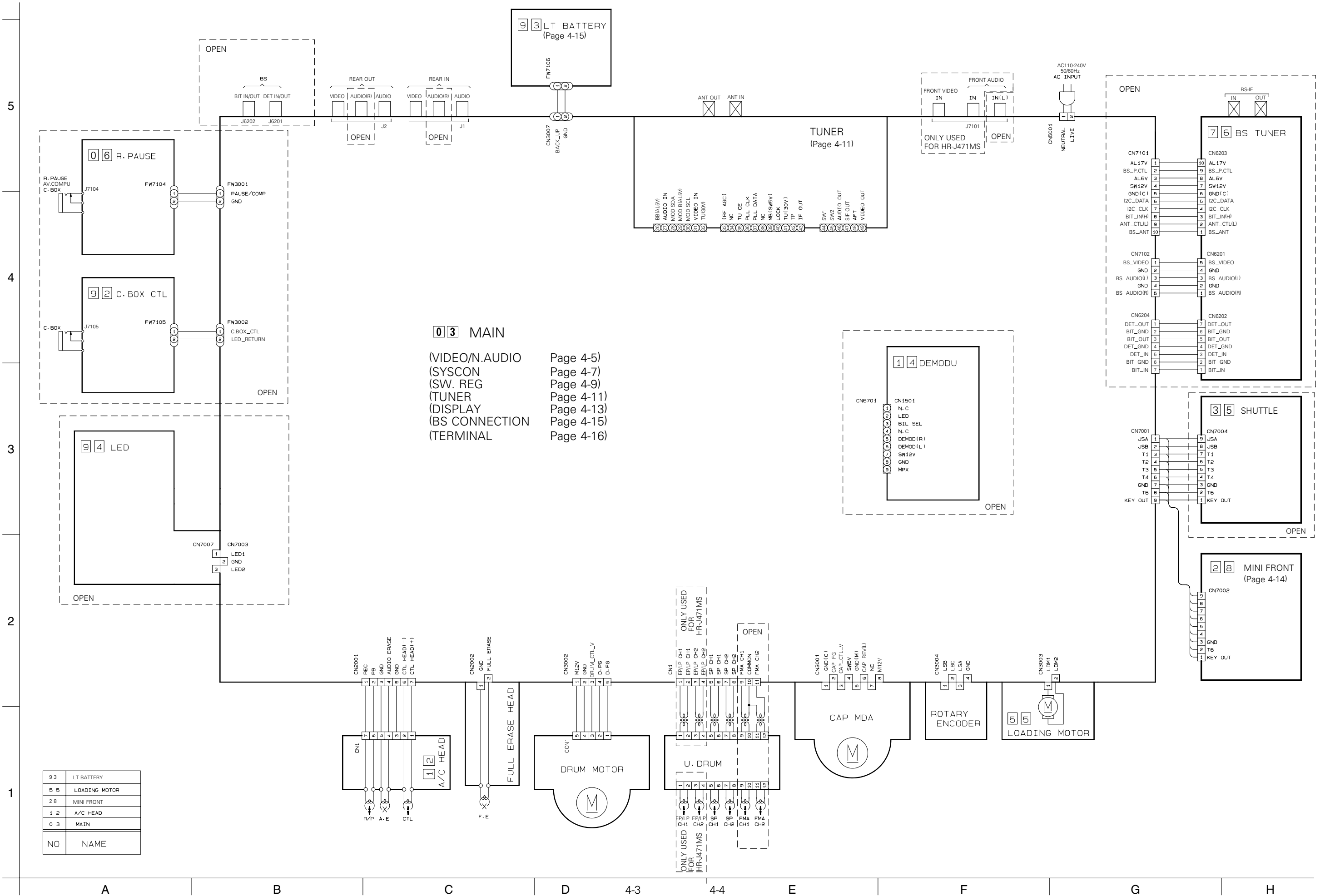
Parts location are indicated by guide scale on the circuit board.



Note:

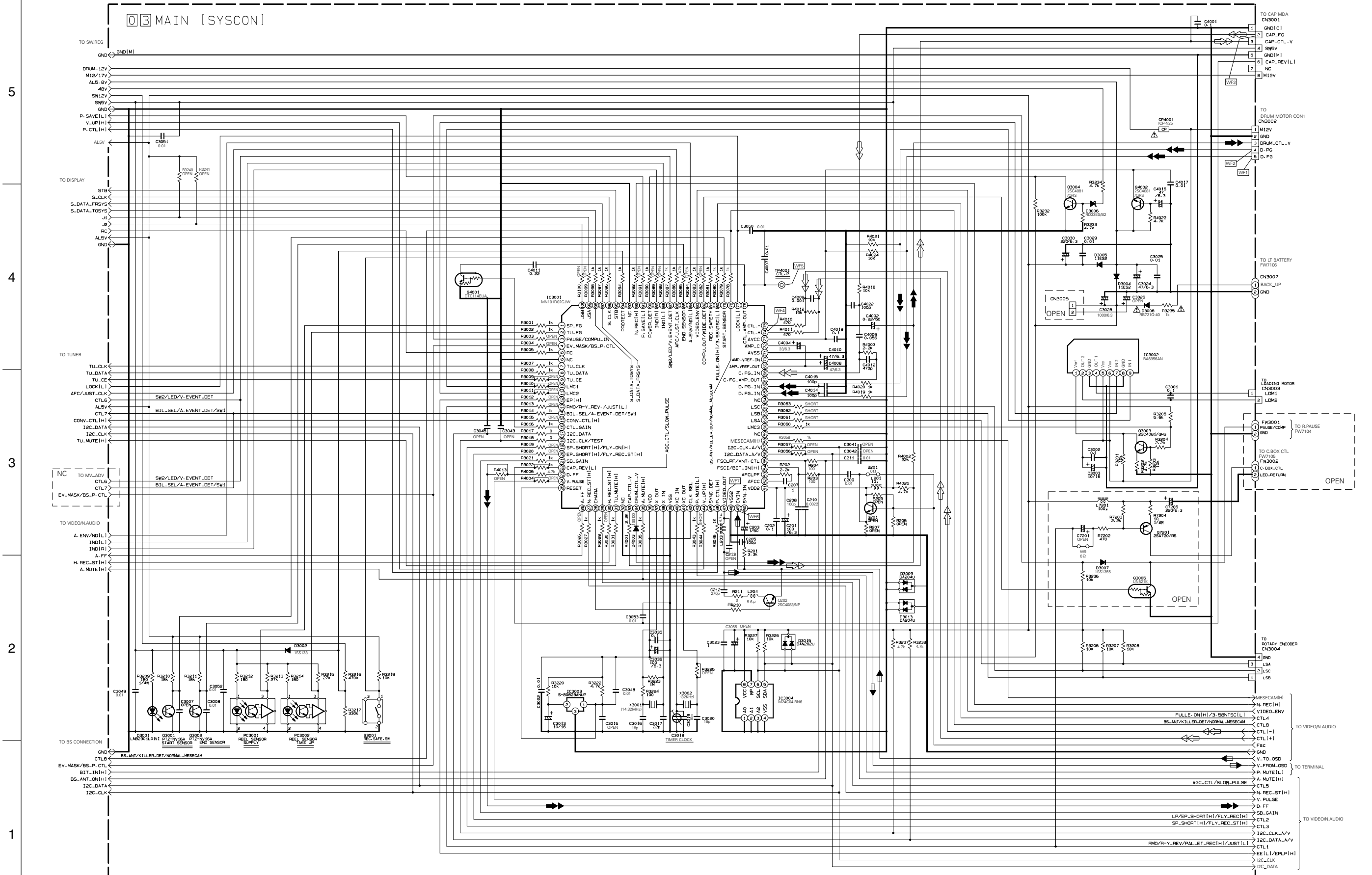
For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

4.1 BOARD INTERCONNECTIONS [HR-J271MS, HR-J471MS]



4.3 SYSTEM CONTROL SCHEMATIC DIAGRAM [HR-J271MS, HR-J471MS]

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

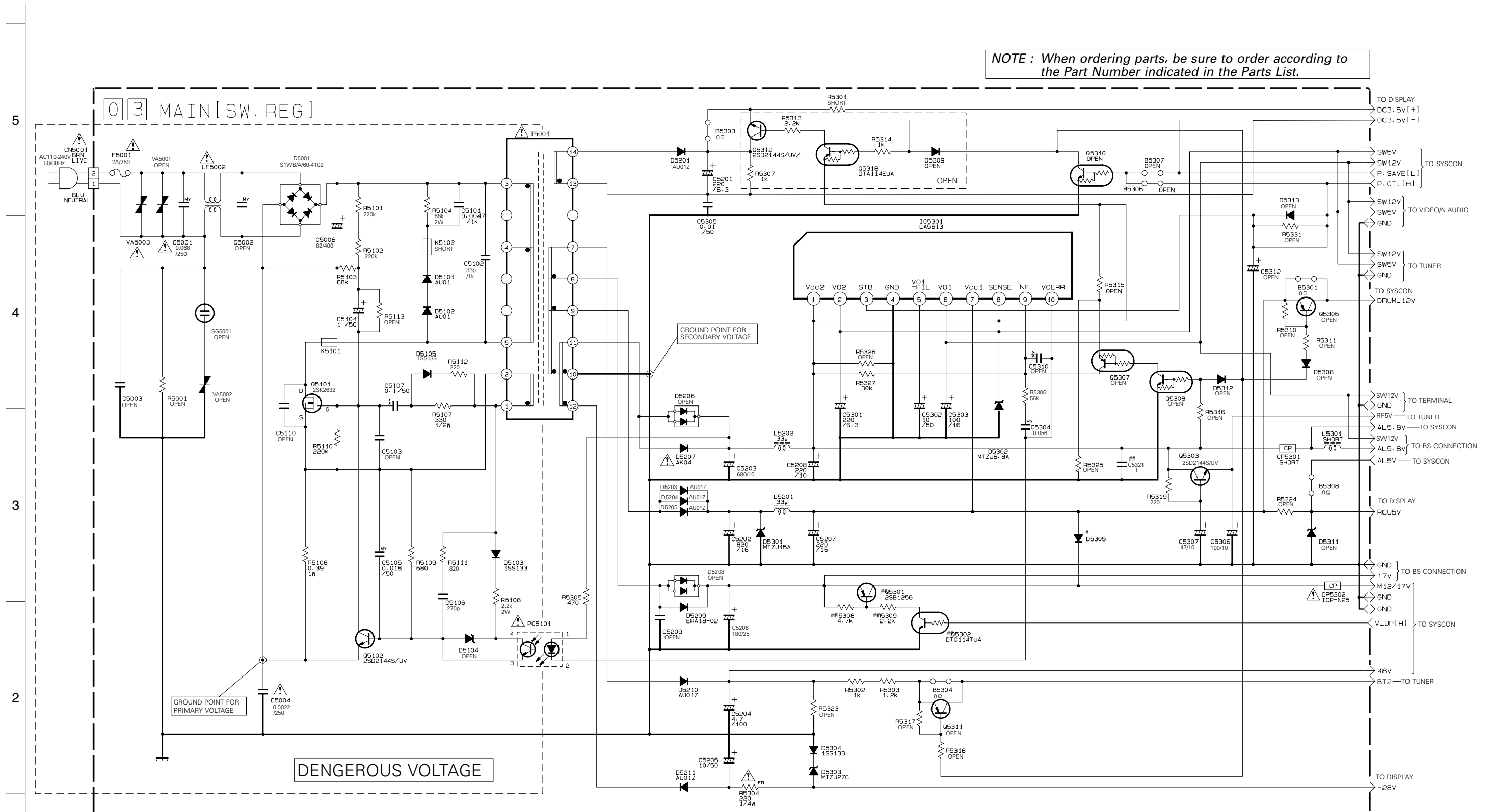


NOTES : 1. For SYSCON waveforms, please refer to page 4-35.
2. Comparison chart of models & marks (#).

REF.NO.	R210
HR-J271MS	5.6kΩ
HR-J471MS	3.3kΩ

4.4 SWITCHING REGULATOR SCHEMATIC DIAGRAM [HR-J271MS, HR-J471MS]

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



NOTE : Comparison chart of models & marks (#).

REF.NO.	Q5301,Q5302	D5305	C5321	R5308,R5309
HR-J271MS	NOT USED	SHORT	NOT USED	NOT USED
HR-J471MS	USED	11ES2	USED	USED

A

B

C

D

4-9

4-10

E

F

G

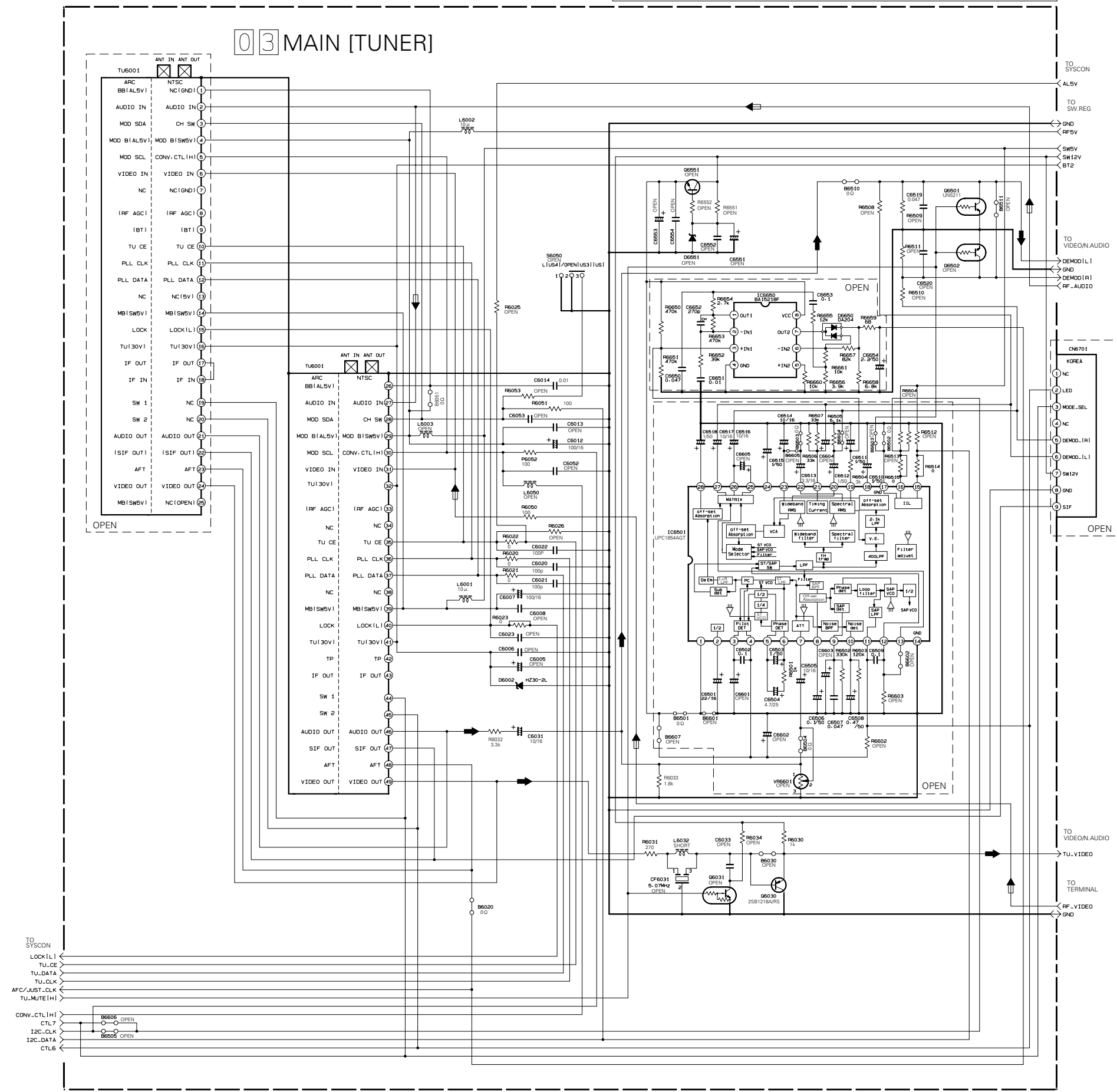
H

4.5 TUNER SCHEMATIC DIAGRAM [HR-J271MS, HR-J471MS]

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

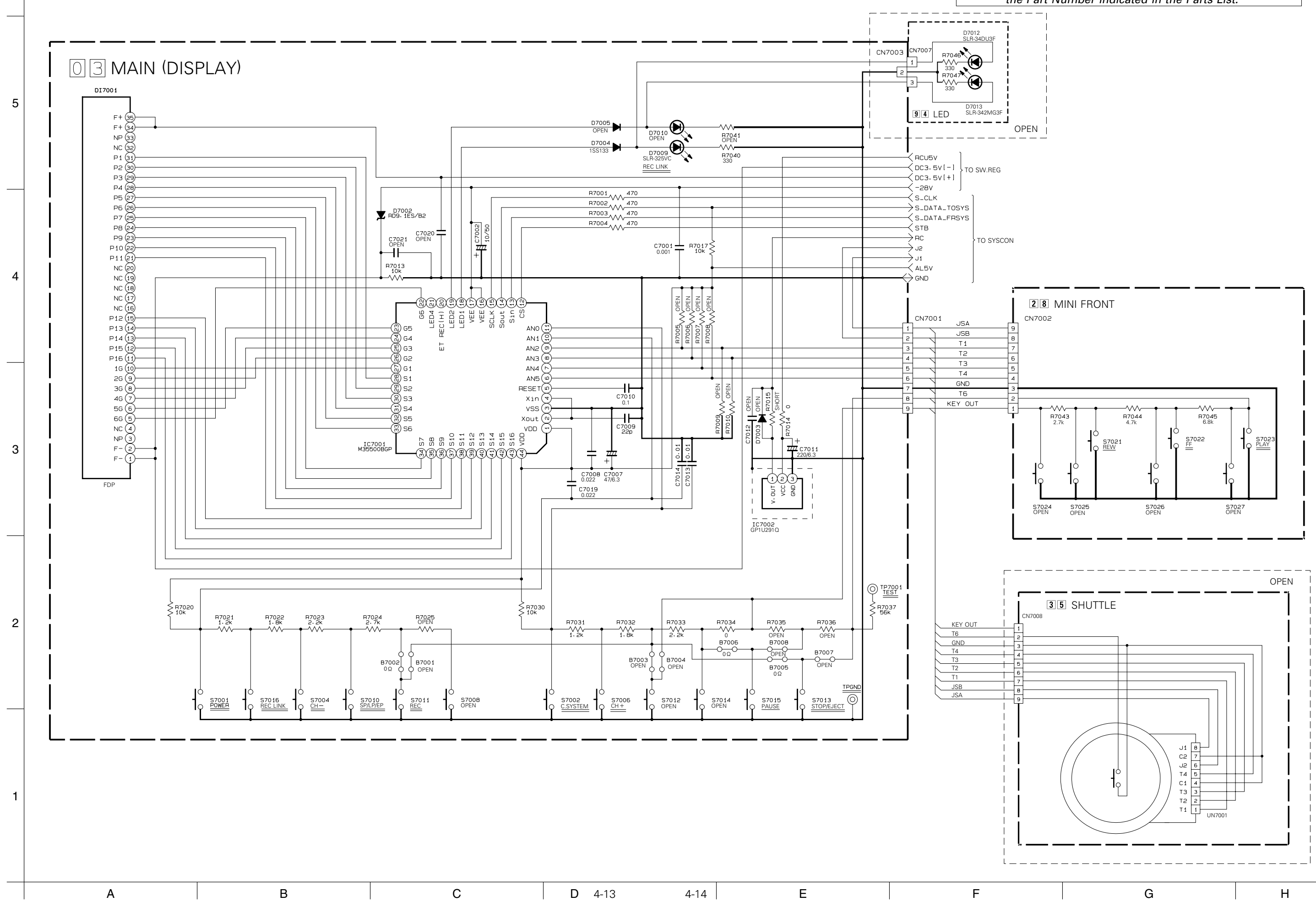
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A B C D 4-11 4-12 E F G H

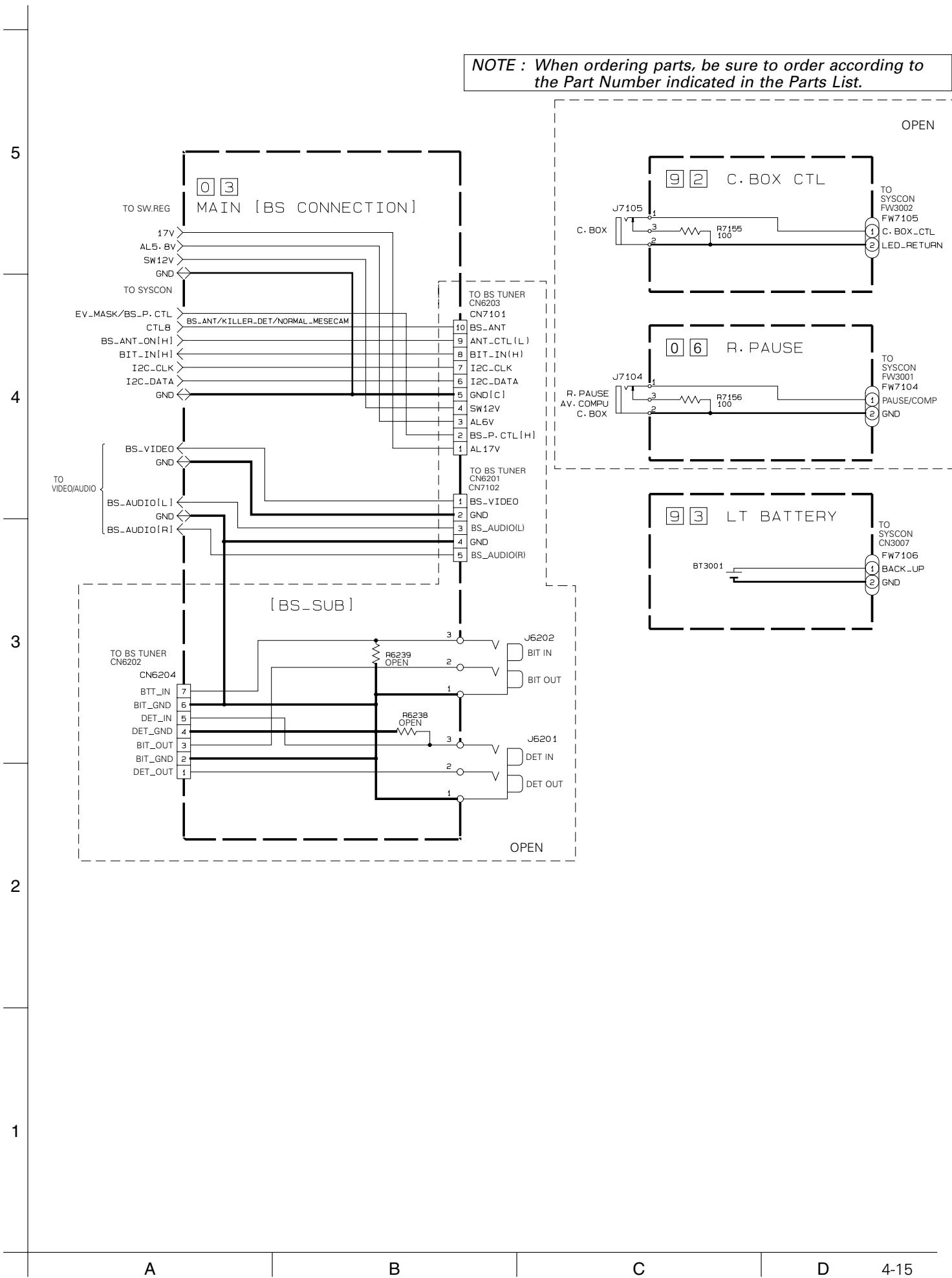


4.6 DISPLAY AND MINI FRONT SCHEMATIC DIAGRAMS [HR-J271MS, HR-J471MS]

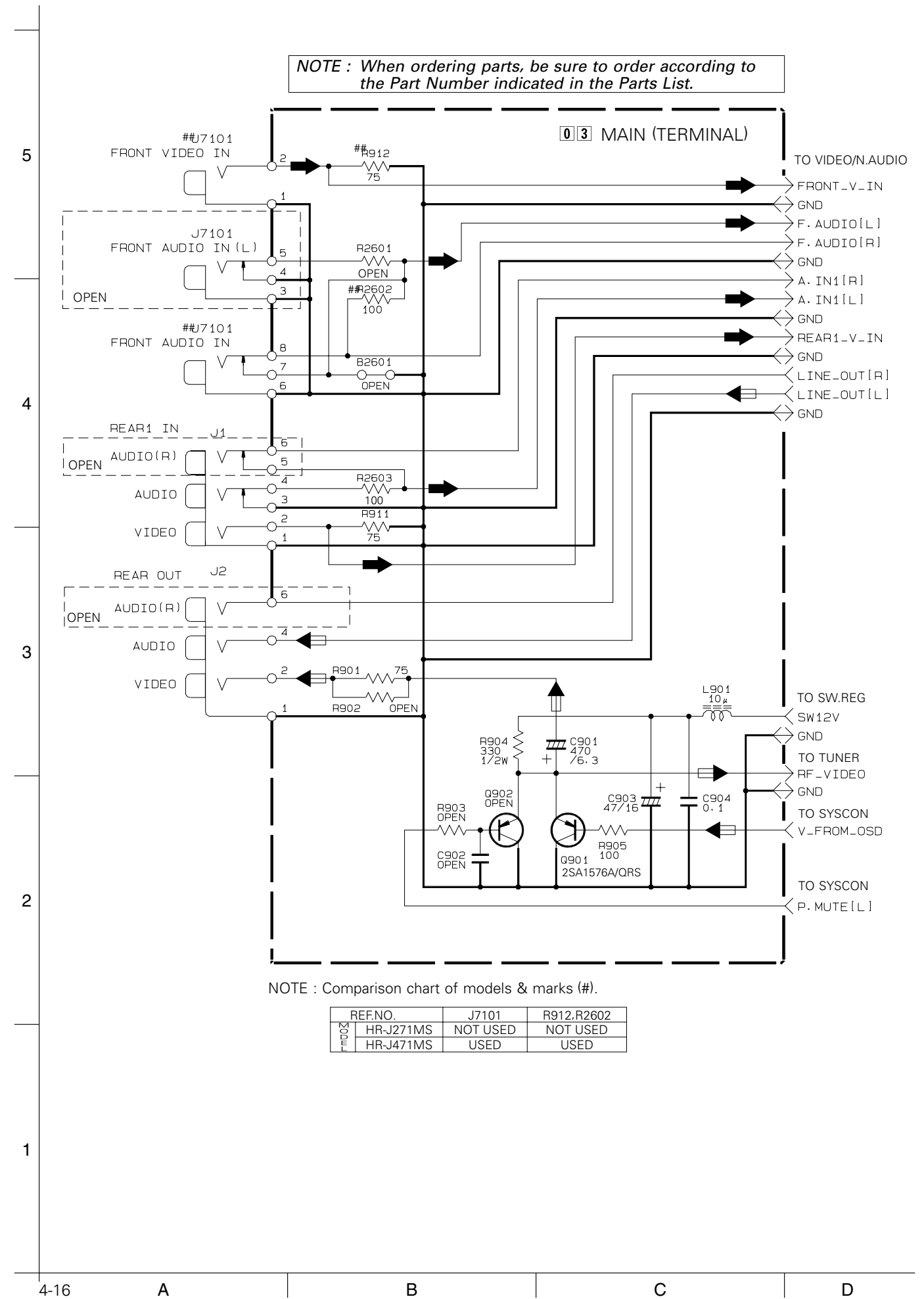
NOTE : When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



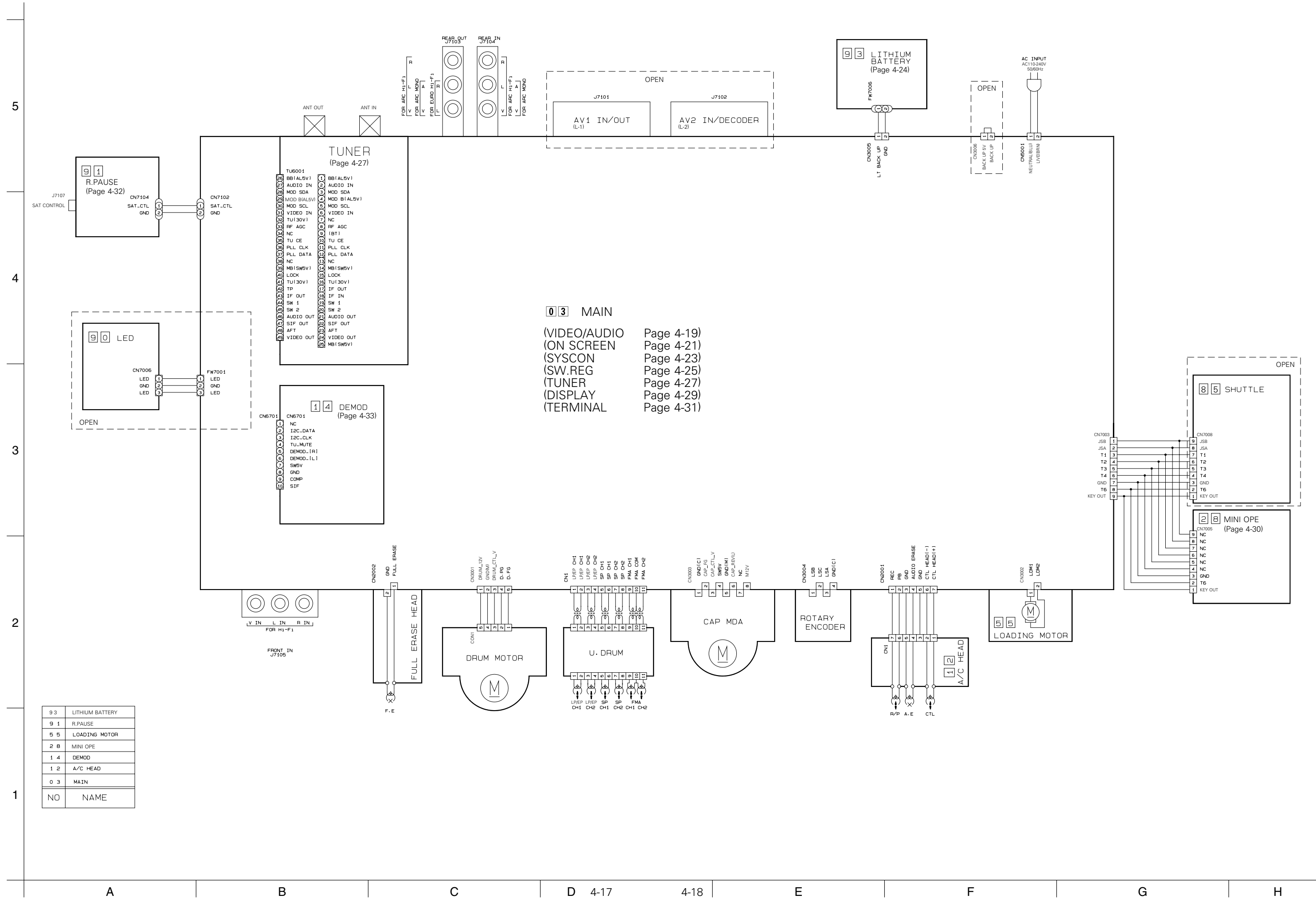
4.7 BS CONNECTION AND LITHIUM BATTERY SCHEMATIC DIAGRAMS [HR-J271MS, HR-J471MS]



4.8 TERMINAL SCHEMATIC DIAGRAM [HR-J271MS, HR-471MS]

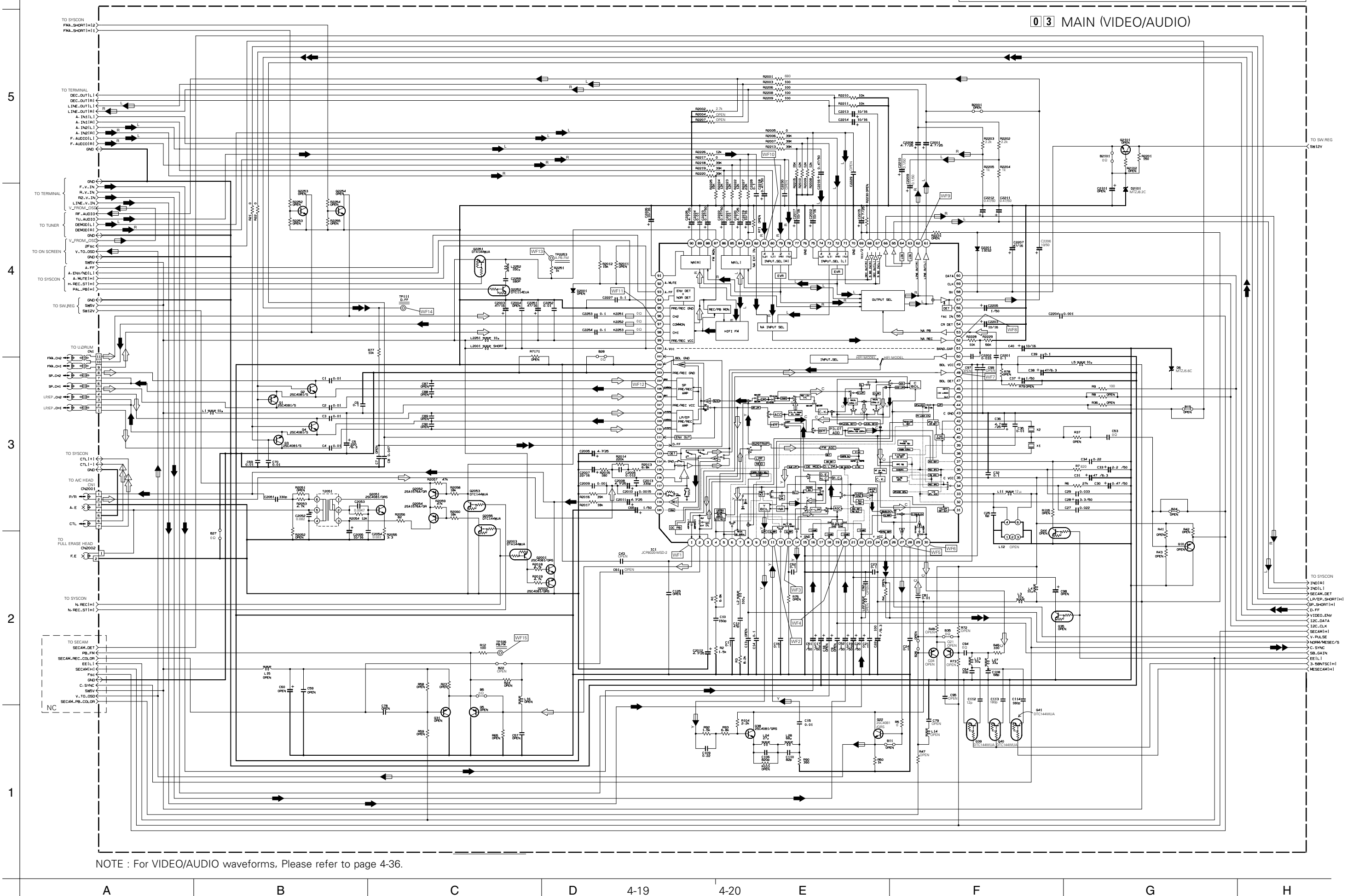


4.9 BOARD INTERCONNECTIONS [HR-J677MS, HR-J777MS]



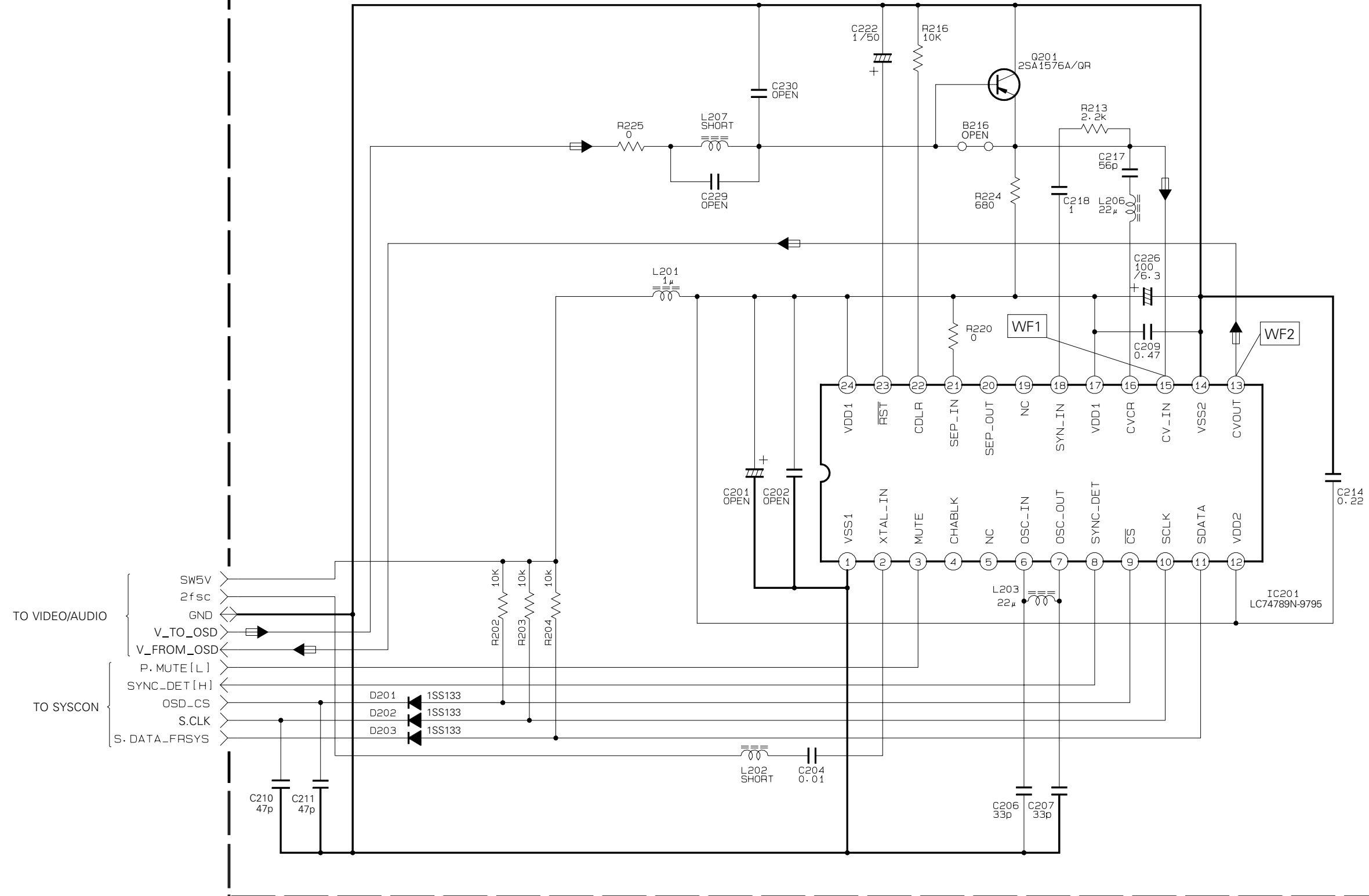
4.10 VIDEO/AUDIO SCHEMATIC DIAGRAM [HR-J677MS, HR-J777MS]

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



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

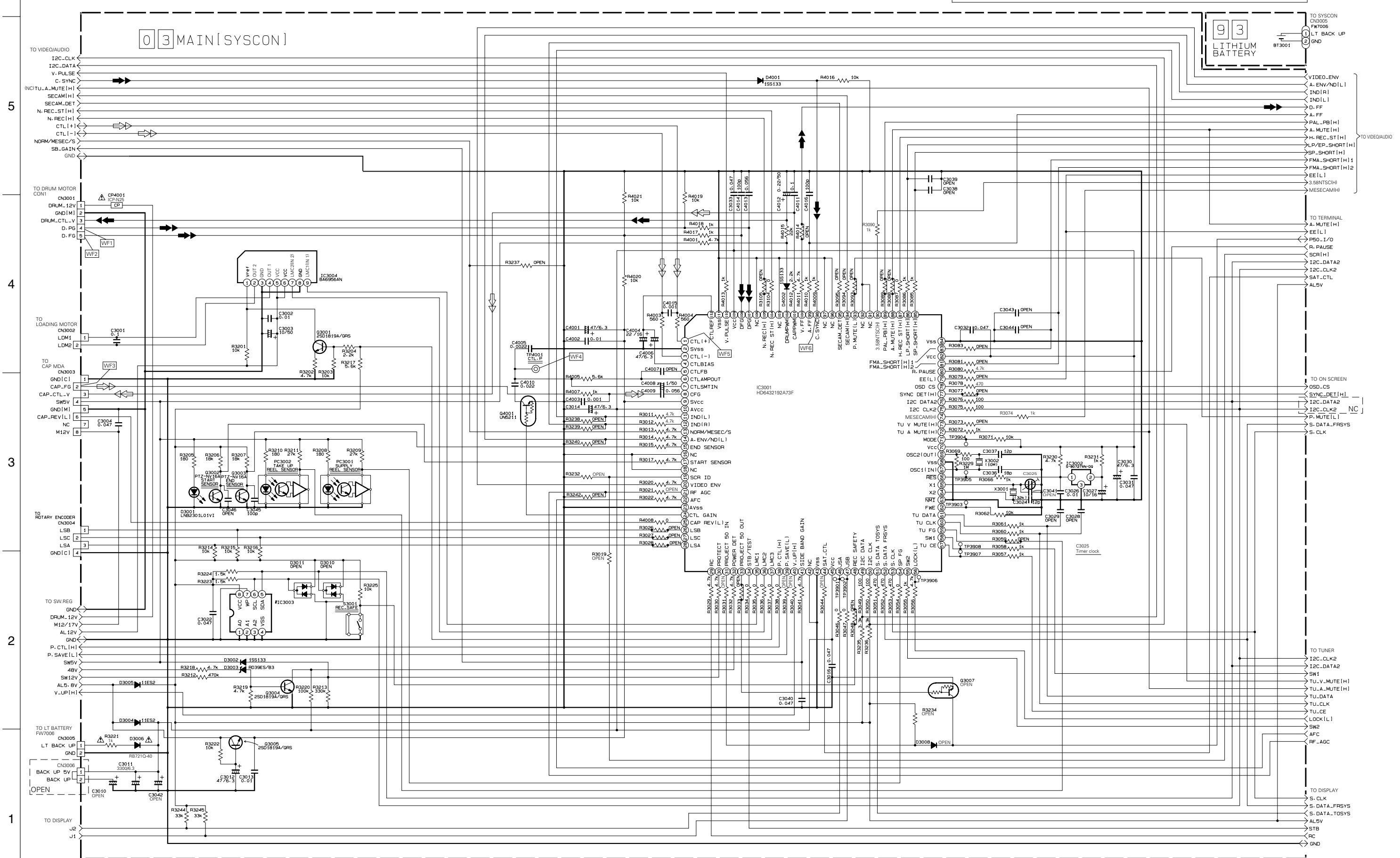
03 MAIN (ON SCREEN)



NOTE : For ON SCREEN waveforms, please refer to page 4-36.

4.12 SYSTEM CONTROL AND LITHIUM BATTERY SCHEMATIC DIAGRAMS [HR-J677MS, HR-J777MS]

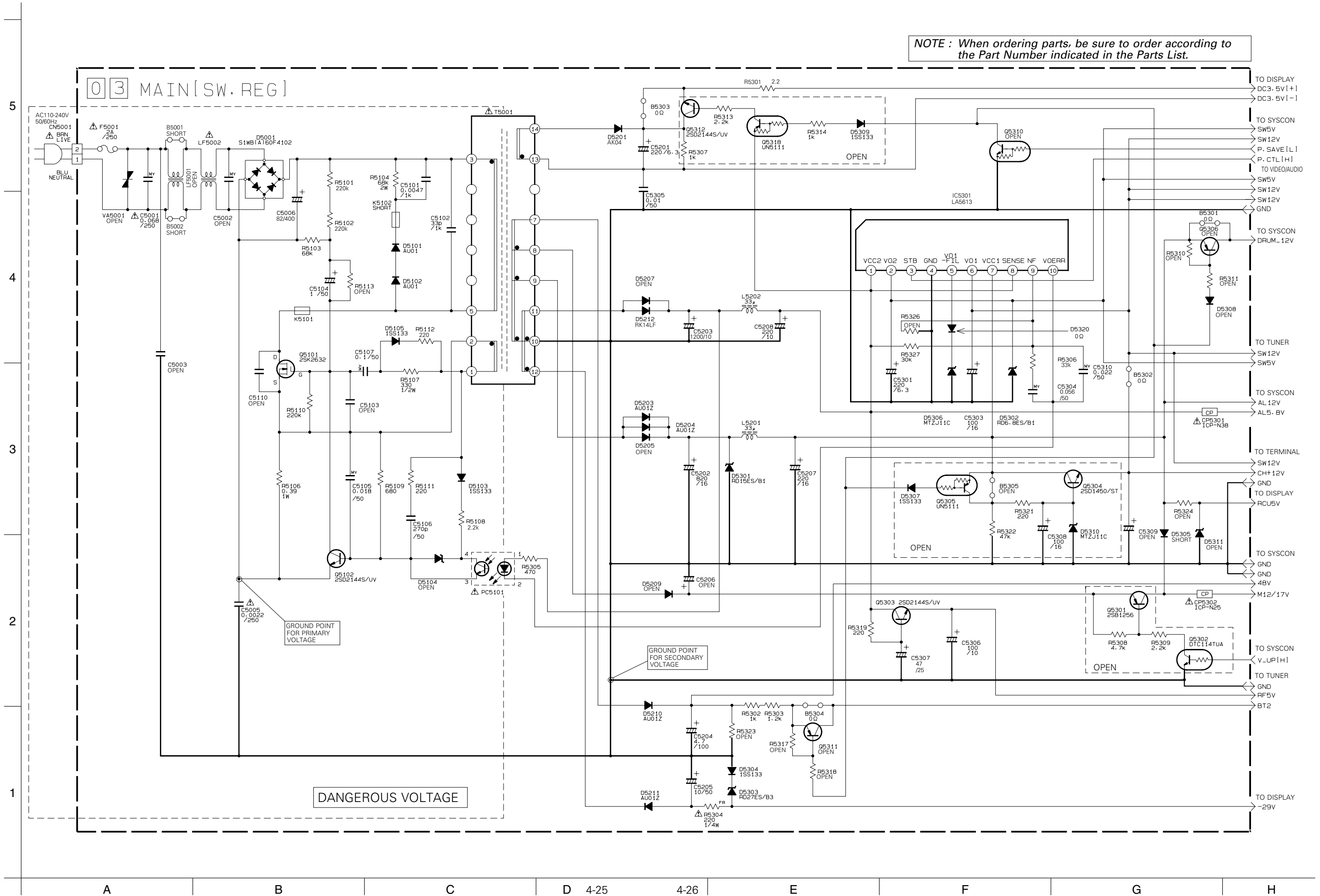
NOTE : When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



NOTES : 1. For SYSCON waveforms, please refer to page 4-36.
2. Comparison chart of models & marks (#).

REF.NO.	IC3003
HR-J677MS	AT24C04-10PC
HR-J777MS	AT24C08-10PC

4.13 SWITCHING REGULATOR SCHEMATIC DIAGRAM [HR-J677MS, HR-J777MS]



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

03 MAIN [SW. REG]

DANGEROUS VOLTAGE

TO DISPLAY
DC3.5V(+)
DC3.5V(-)

TO SYSCON
SW5V
SW12V
P. SAVE [L]
P. CTL [H]
TO VIDEO/AUDIO
SW12V
SW12V
GND

TO SYSCON
DRUM.12V

TO TUNER
SW12V
SW5V

TO SYSCON
AL.12V
AL.5.8V

TO TERMINAL
SW12V
CH+12V
GND

TO DISPLAY
RCU5V

TO SYSCON
GND
GND
48V

M12/17V

TO SYSCON
V. LUP [H]

TO TUNER
GND
RF5V
BT2

TO DISPLAY
-29V

A

B

C

D 4-25

4-26

E

F

G

H

5

4

3

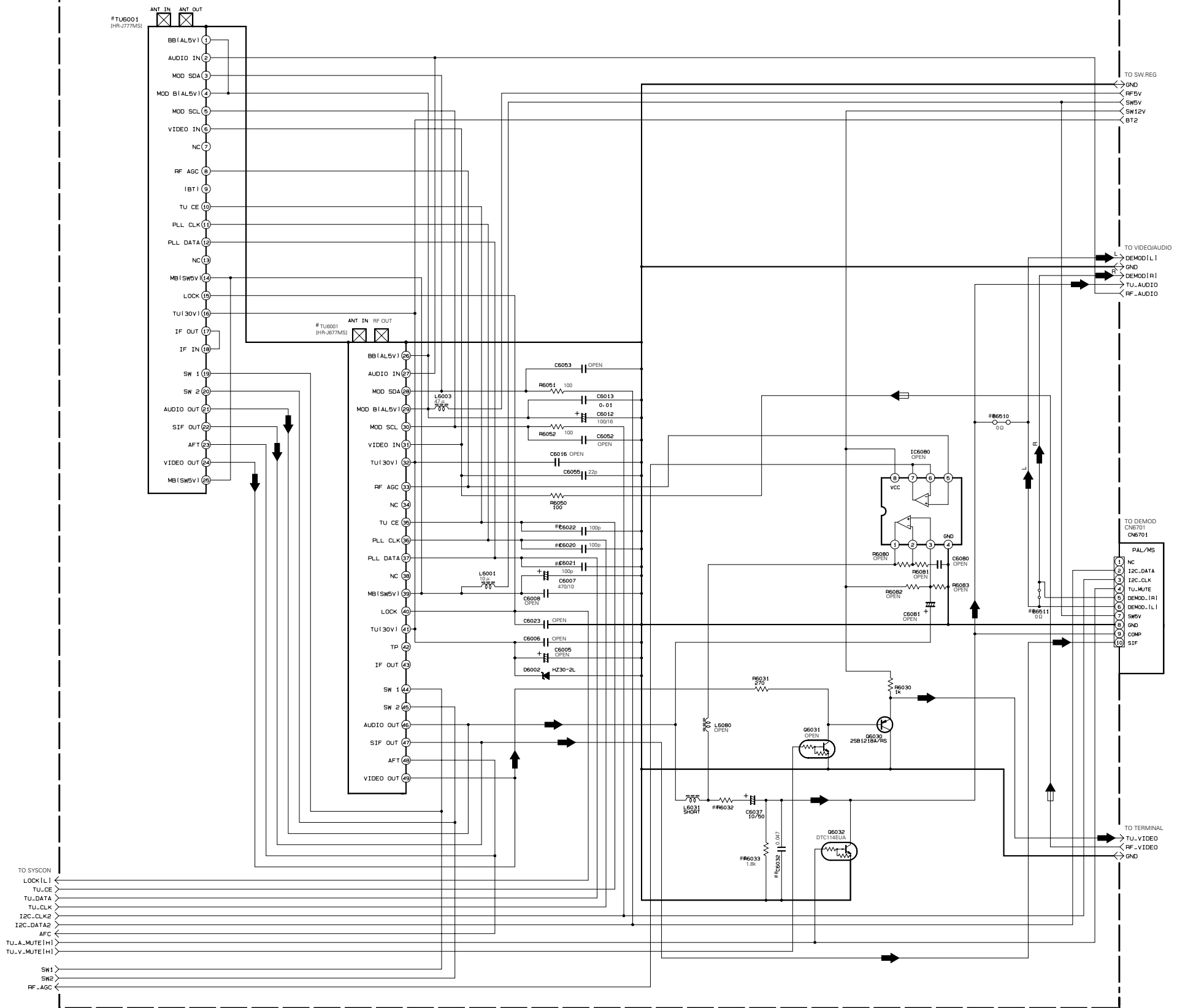
2

1

4.14 TUNER SCHEMATIC DIAGRAM [HR-J677MS, HR-J777MS]

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

03 MAIN (TUNER)



NOTE : Comparison chart of models & marks(#).

REF.NO.	TU6001	R6032	R6033	C6020-C6022 C6032	B6510 B6511
HR-J677MS	QAU0150-002	2.2kΩ	USED	USED	USED
HR-J777MS	QAU0111-001	0Ω	NOT USED	NOT USED	NOT USED

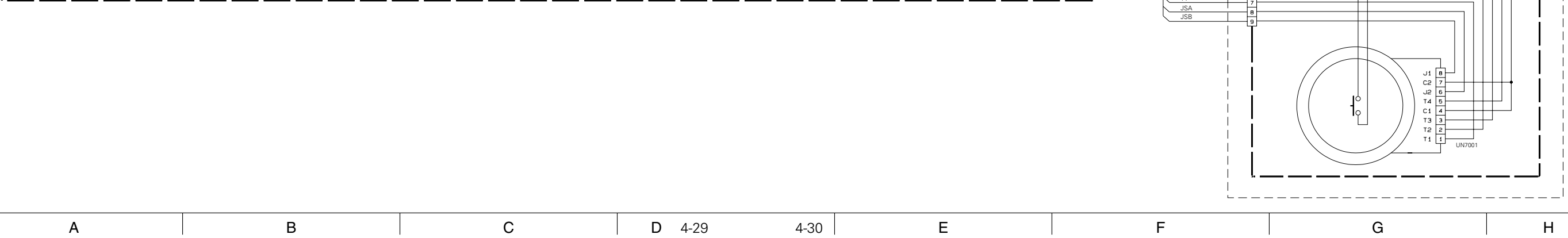
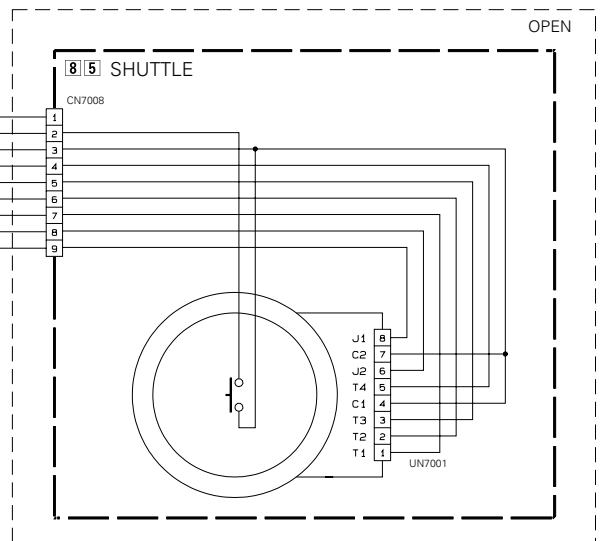
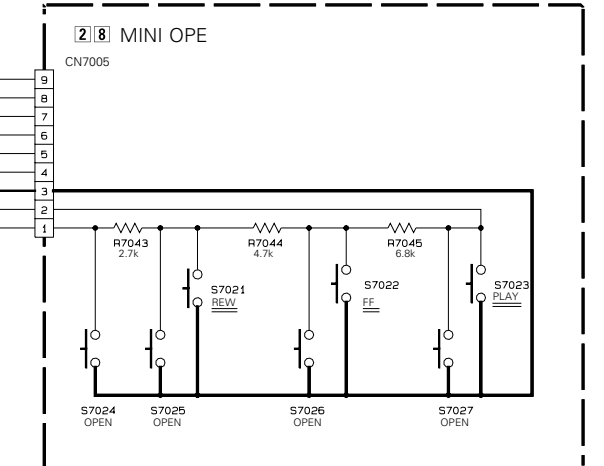
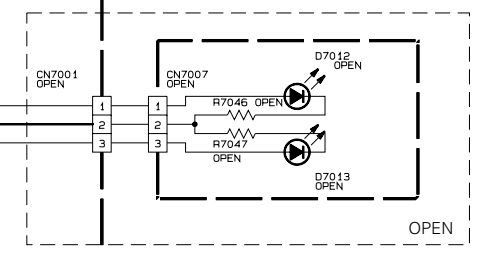
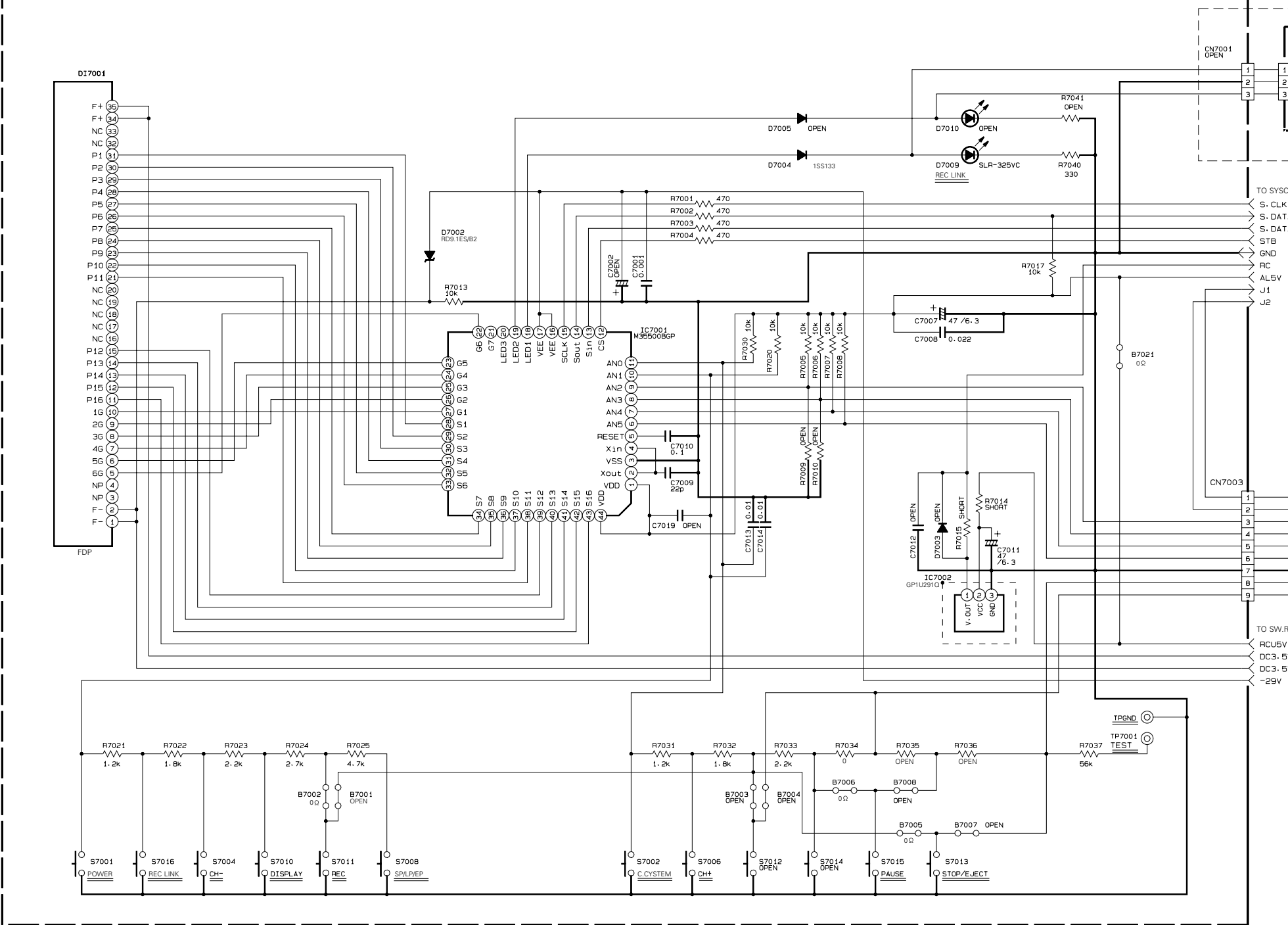
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A B C D 4-27 4-28 E F G H

4.15 DISPLAY AND MINI OPE SCHEMATIC DIAGRAMS [HR-J677MS, HR-J777MS]

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

03 MAIN (DISPLAY)

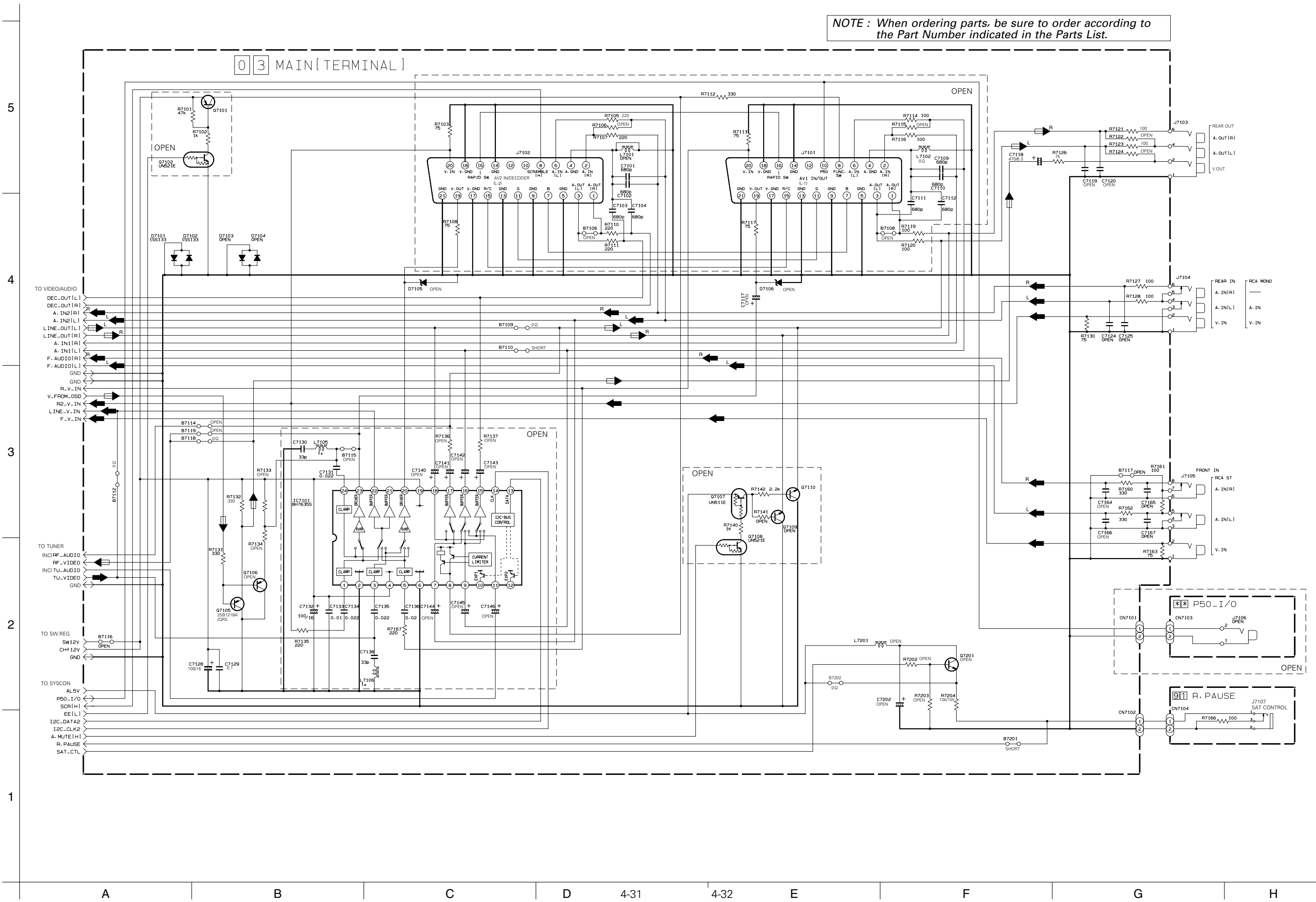


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1

A B C D 4-29 4-30 E F G H

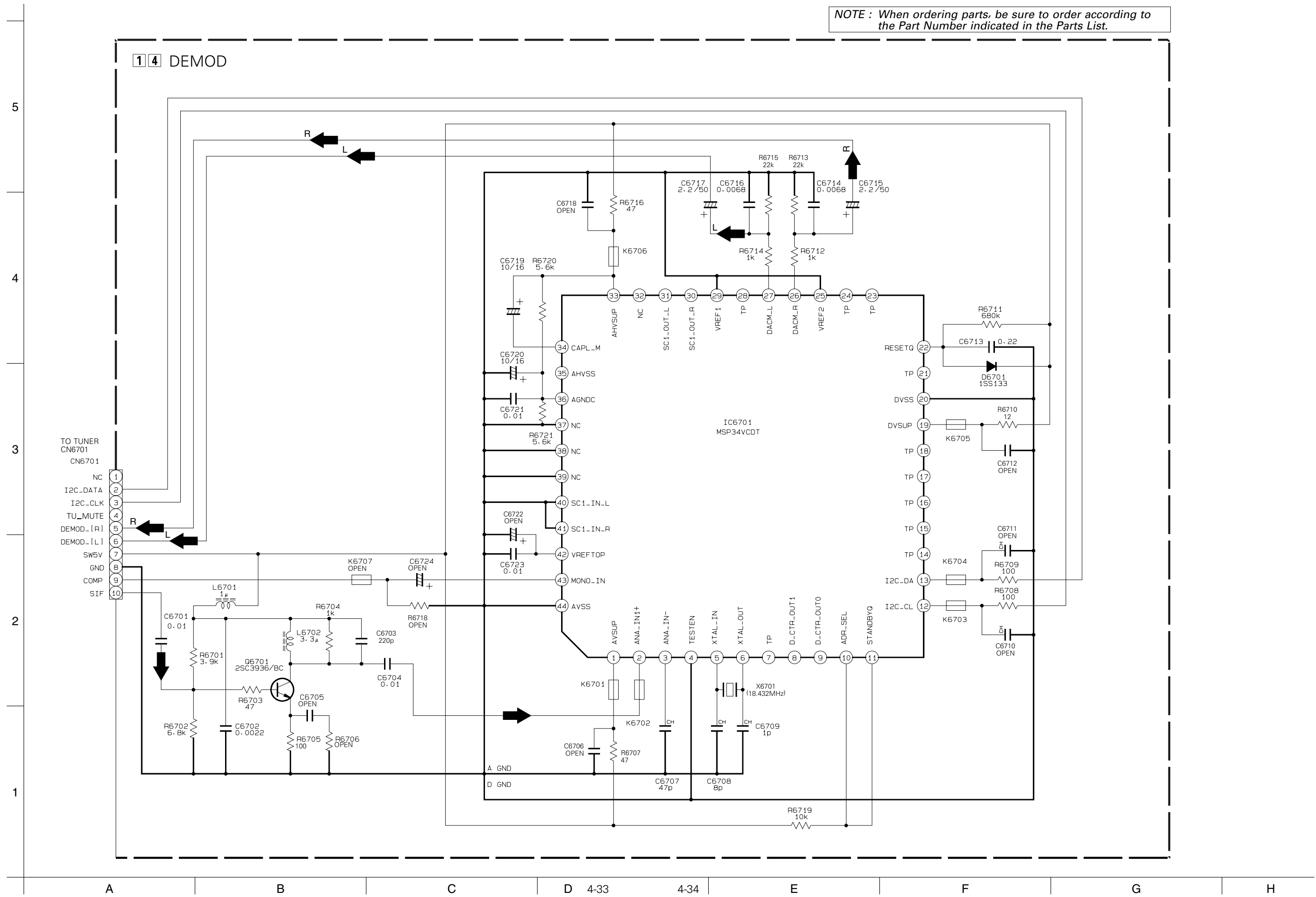
4.16 TERMINAL AND R.PAUSE SCHEMATIC DIAGRAMS [HR-J677MS, HR-J777MS]

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



4.17 DEMODULATOR SCHEMATIC DIAGRAM [HR-J777MS]

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



1 4 DEMOD

TO TUNER
CN6701
1 NC
2 I2C_DATA
3 I2C_CLK
4 TU_MUTE
5 DEMOD_(R)
6 DEMOD_(L)
7 SW5V
8 GND
9 COMP
10 SIF

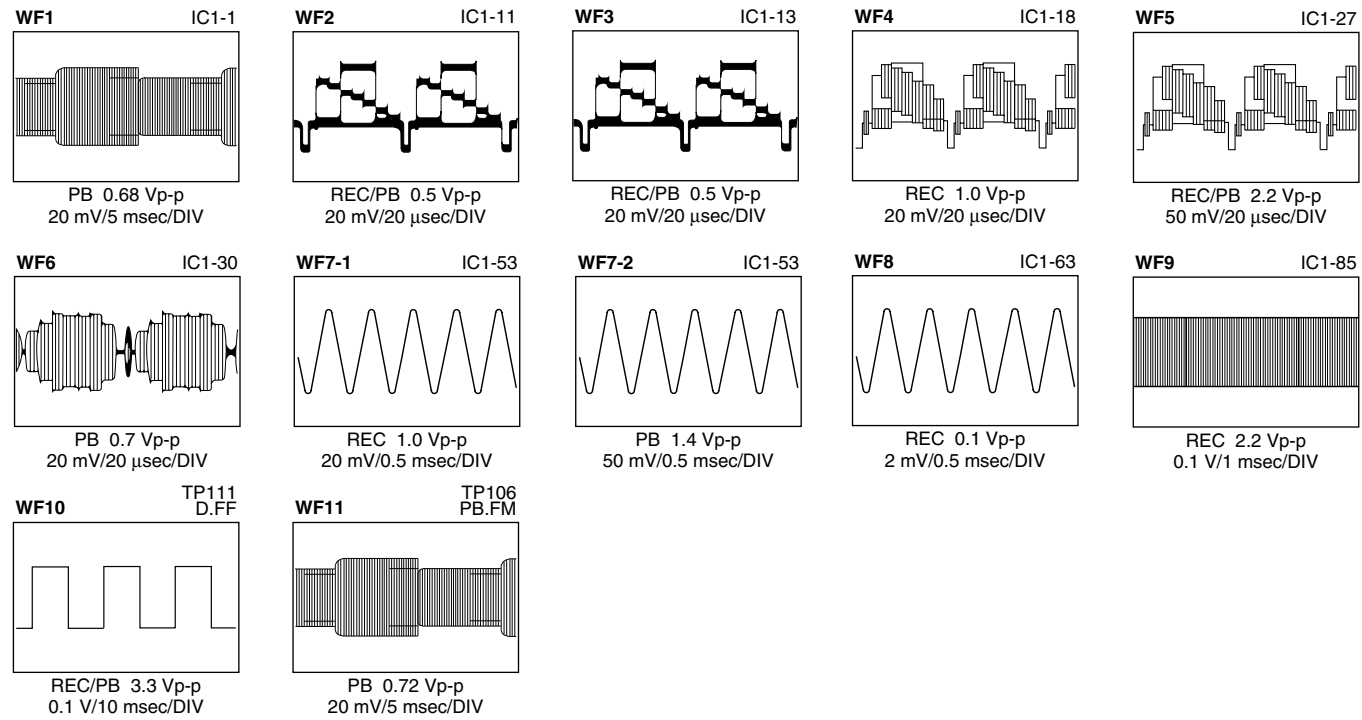
IC6701
MSP34VCDT

A B C D 4-33 E F G H

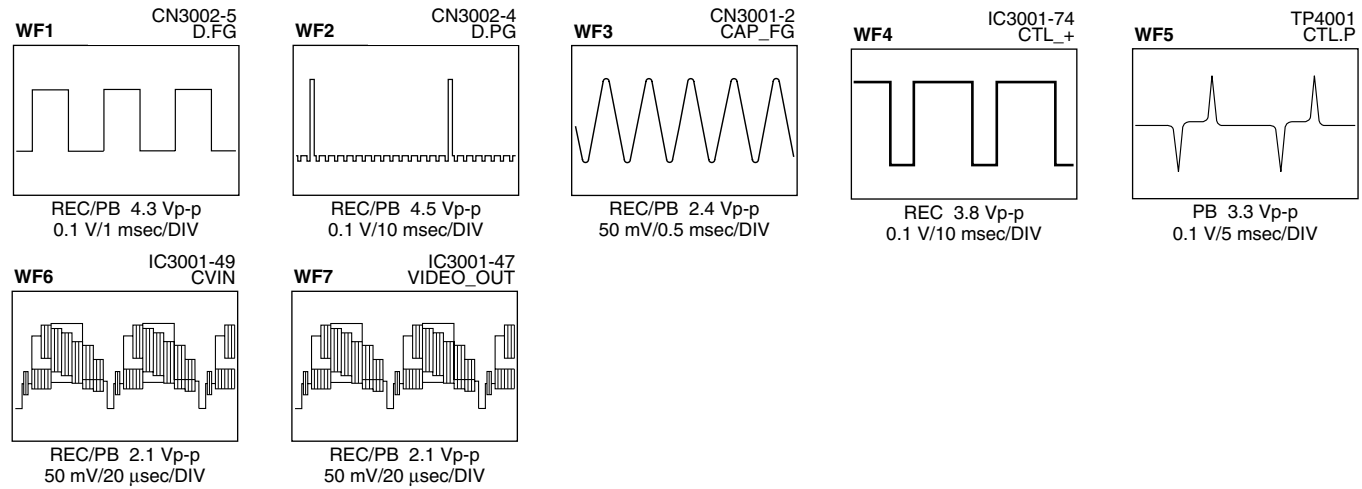
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WAVEFORMS [HR-J271MS, HR-J471MS]

— VIDEO/AUDIO —

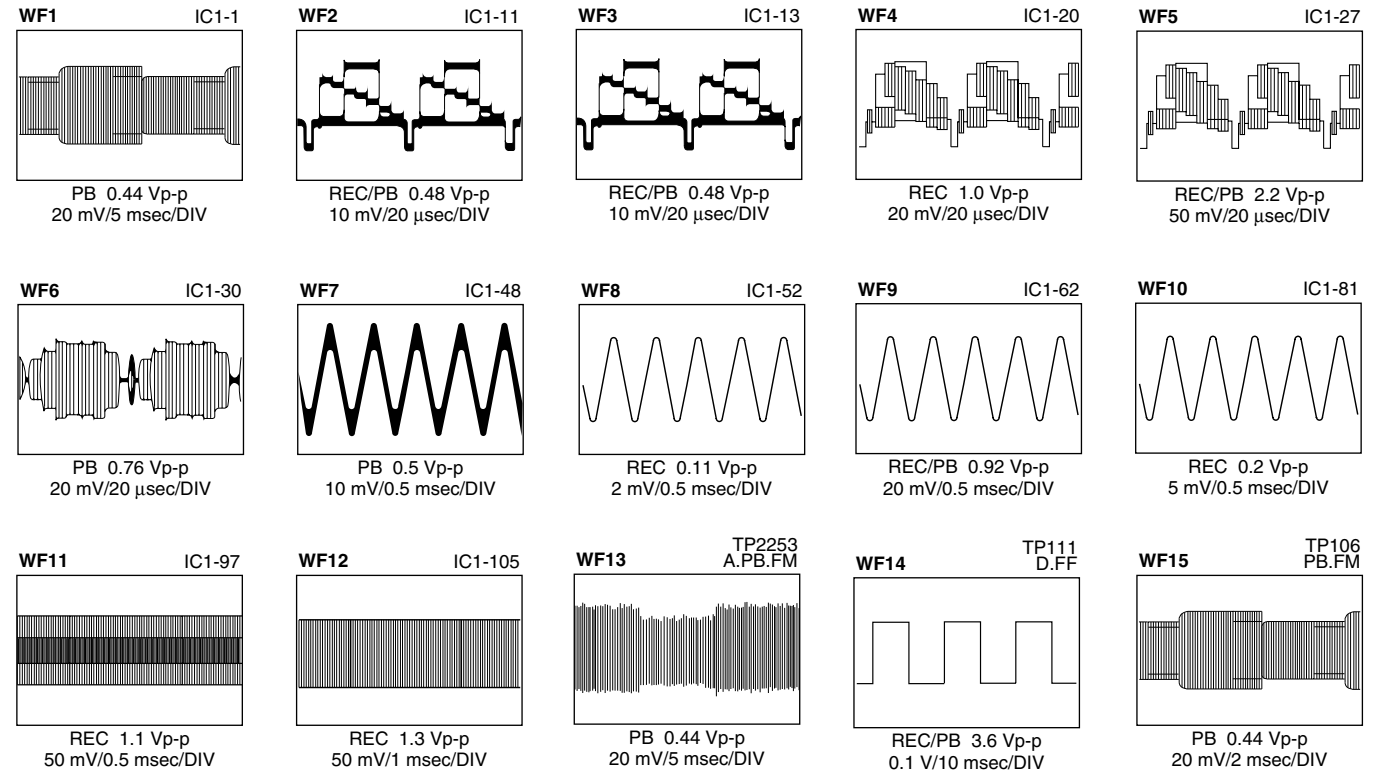


— SYSCON —

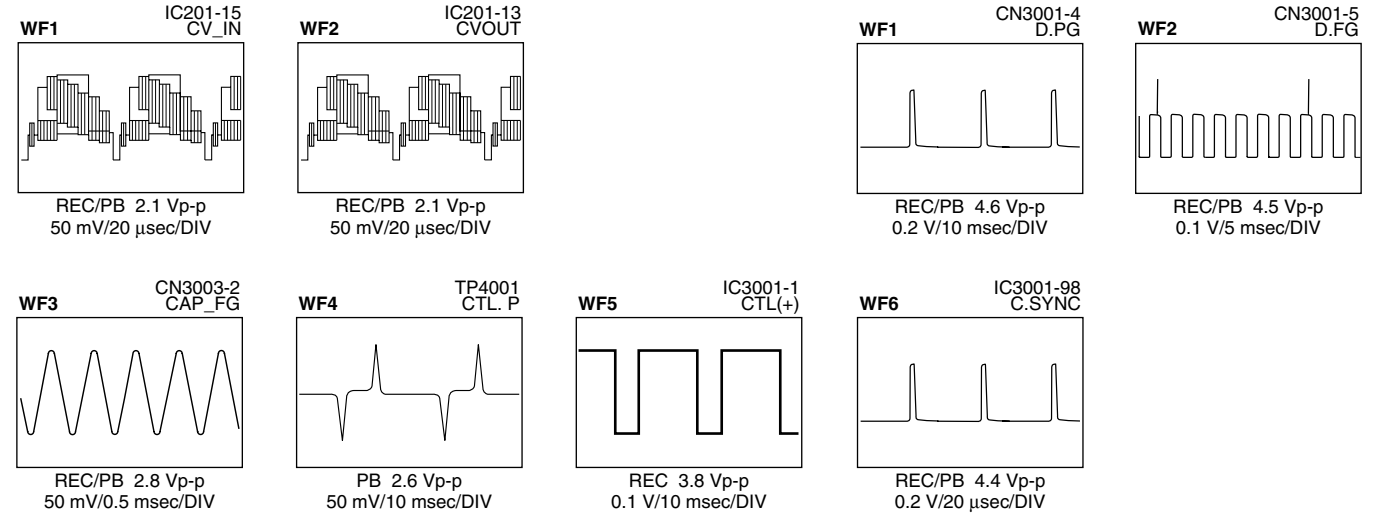


WAVEFORMS [HR-J677MS, HR-J777MS]

— VIDEO/AUDIO —



— ON SCREEN —

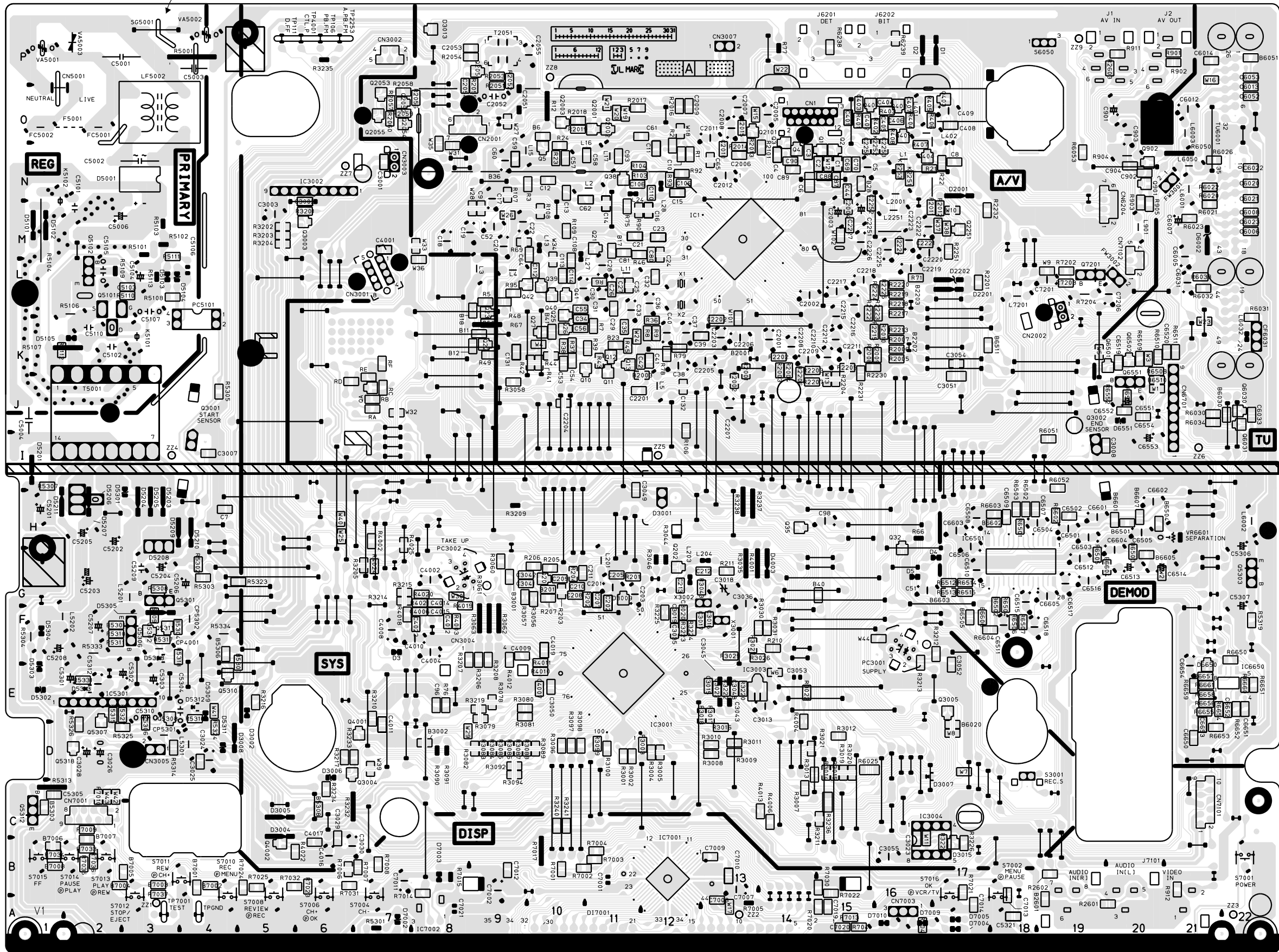


— SYSCON —

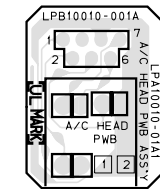
4.18 MAIN, A/C HEAD, MINI FRONT, LITHIUM BATTERY AND LOADING MOTOR CIRCUIT BOARDS [HR-J271MS, HR-J471MS]

<03>MAIN
LPB10088-002D

DANGEROUS VOLTAGE



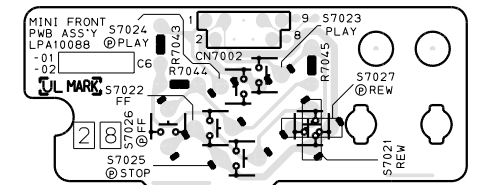
<12>A/C HEAD
LPB10010-001A



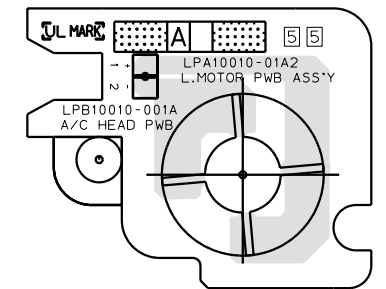
<93>LITHIUM BATTERY
LPB10088-002D



<28>MINI FRONT
LPB10088-002D



<55>LOADING MOTOR
LPB10010-001A



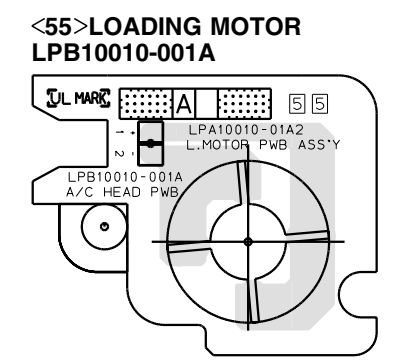
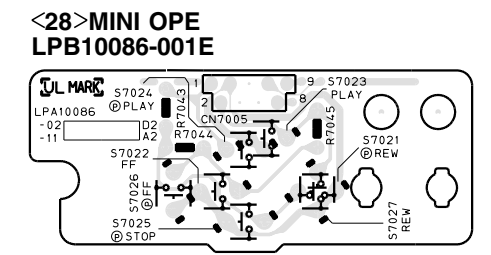
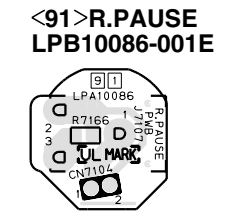
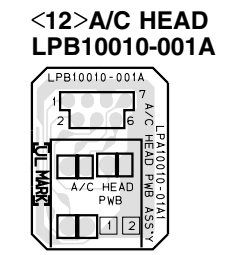
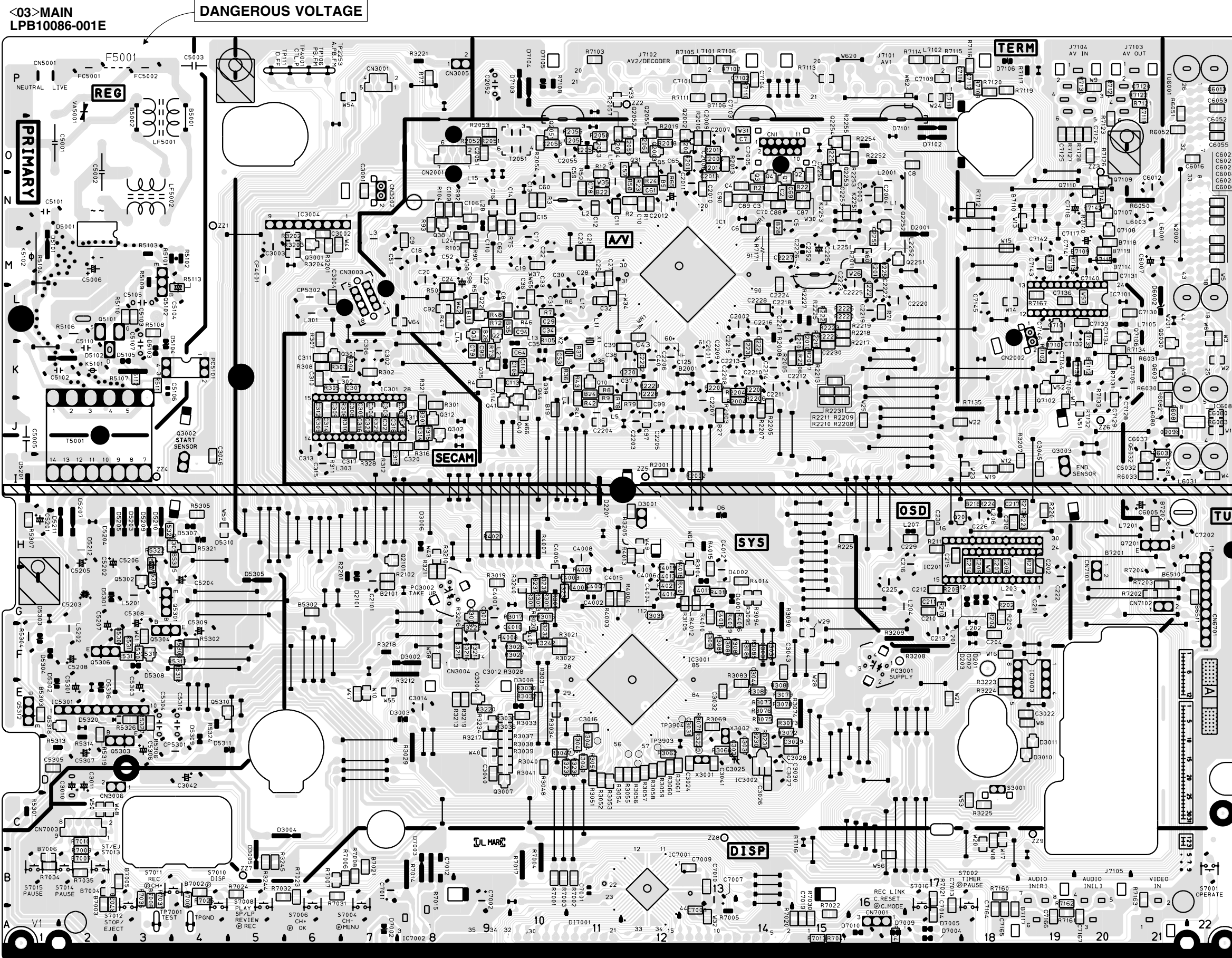
COMPONENT PARTS LOCATION GUIDE < MAIN > [HR-J271MS, HR-J471MS]

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR															
C1	B C	15N	C2007	A D	13O	C5206	A D	4G	D3005	A D	5C	Q27	B C	10K	R401
C2	B C	15N	C2008	A D	13O	C5207	A D	2F	D3006	A D	6D	Q32	B C	16H	R402
C3	B C	14N	C2010	A D	13N	C5208	A D	3E	D3007	A D	16D	Q35	B C	14H	R403
C4	B C	14N	C2011	A D	13N	C5209	A D	2G	D3008	A D	4E	Q38	B C	11N	R404
C5	A D	15N	C2012	A D	13N	C5301	A D	2E	D3009	A D	11G	Q39	B C	10L	R405
C6	B C	14N	C2052	A D	13O	C5302	A D	3E	D3013	B C	8P	Q40	B C	10L	R406
C7	B C	4H	C2053	A D	9O	C5303	A D	3E	D3015	A D	17B	Q41	B C	10L	R407
C8	B C	17N	C2054	A D	9O	C5304	A D	4C	D4003	A D	14H	Q42	B C	9L	R408
C9	B C	9M	C2055	A D	8O	C5305	A D	1C	D5001	B C	3N	Q201	B C	10G	R409
C10	B C	12N	C2055	A D	10P	C5306	A D	22H	D5101	A D	1M	Q202	B C	12G	R402
C11	B C	12N	C2201	A D	11J	C5307	A D	2E	D5102	A D	1M	Q401	B C	15O	R903
C12	B C	10N	C2202	A D	13K	C5312	A D	3E	D5104	A D	3L	Q402	B C	16O	R904
C13	B C	10N	C2203	A D	10K	C5321	A D	2E	D5104	A D	3L	Q403	B C	17O	R905
C14	B C	11M	C2204	A D	13J	C5321	A D	18A	D5105	A D	2K	Q404	B C	16N	R911
C15	B C	12N	C2205	A D	10K	C6005	A D	21L	D5201	A D	1I	Q405	B C	16O	R912
C16	B C	12M	C2206	A D	13K	C6006	B C	22M	D5203	A D	3I	Q901	B C	20N	R2001
C17	A D	9M	C2207	A D	14J	C6007	B C	22M	D5204	A D	3I	Q902	B C	20N	R2002
C18	A D	8M	C2208	A D	13K	C6012	A D	21L	D5206	A D	2H	Q2002	B C	11O	R2004
C19	A D	9M	C2209	A D	14K	C6013	B C	22P	D5207	A D	2I	Q2003	B C	10O	R2005
C20	A D	9M	C2210	A D	15K	C6014	B C	21O	D5208	A D	3H	Q2051	B C	9P	R2006
C21	B C	11M	C2211	A D	15K	C6020	B C	22N	D5209	A D	3H	Q2052	B C	7O	R2007
C22	B C	9M	C2212	A D	15K	C6021	B C	22N	D5210	A D	4H	Q2053	B C	7O	R2008
C23	B C	12M	C2215	A D	15K	C6022	B C	22N	D5211	A D	1H	Q2054	B C	7O	R2009
C24	B C	12M	C2216	A D	15L	C6023	B C	22M	D5301	A D	3I	Q2055	B C	7O	R2010
C25	B C	11L	C2217	A D	15L	C6031	A D	21L	D5302	A D	1E	Q2101	B C	13O	R2011
C26	B C	11L	C2218	A D	15L	C6033	B C	22J	D5303	A D	1E	Q2251	B C	17M	R2012
C27	B C	11L	C2219	A D	16L	C6052	B C	22O	D5304	A D	1F	Q3001	A D	4I	R2013
C28	A D	11L	C2220	A D	16M	C6053	B C	22P	D5305	A D	19I	Q3002	A D	19I	R2014
C29	B C	11L	C2221	A D	16M	C6501	B C	19H	D5308	B C	3F	Q3003	B C	6M	R2015
C30	A D	10L	C2222	A D	16M	C6502	B C	19H	D5309	A D	4D	Q3004	B C	6D	R2016
C31	A D	11L	C2223	A D	16M	C6503	A D	19H	D5311	A D	4D	Q3005	B C	17E	R2017
C32	B C	12L	C2224	A D	16M	C6504	A D	18H	D5312	B C	4E	Q4001	B C	7D	R2018
C33	A D	11L	C2225	A D	16M	C6505	A D	20H	D5313	B C	2E	Q4002	B C	5B	R2019
C34	B C	10K	C2226	A D	15M	C6506	A D	17H	D6002	A D	21L	Q5101	A D	2L	R2051
C35	B C	11K	C2227	B C	15M	C6507	B C	18H	D6551	A D	20J	Q5102	A D	2L	R2052
C36	A D	12L	C2251	A D	15N	C6508	A D	17H	D6650	B C	21E	Q5301	A D	3G	R2053
C37	A D	12K	C2252	B C	15M	C6509	B C	18H	D7002	A D	7A	Q5302	A D	3F	R2054
C38	A D	12K	C2253	B C	16N	C6510	A D	17G	D7003	A D	8B	Q5303	A D	22G	R2055
C39	B C	13K	C2254	B C	15N	C6511	A D	18F	D7004	A D	17A	Q5306	A D	3F	R2056
C40	A D	12K	C3001	B C	7H	C6512	A D	19G	D7005	A D	17A	Q5307	B C	2E	R2057
C41	B C	12K	C3002	B C	6M	C6513	A D	20G	D7009	A D	16A	Q5308	B C	3E	R2058
C42	B C	11K	C3003	A D	5M	C6514	A D	20G	D7010	A D	16A	Q5310	B C	4E	R2059
C44	B C	15N	C3007	B C	4I	C6515	A D	18G				Q5311	B C	3F	R2060
C51	A D	16G	C3008	B C	20I	C6516	A D	19G				Q5312	A D	1C	R2101
C52	A D	9M	C3013	A D	14E	C6517	A D	19G	IC1	B C	13M	Q5318	B C	2D	R2201
C53	B C	10K	C3015	B C	13E	C6518	A D	18F	IC3002	A D	11E	Q6300	B C	2D	R2202
C54	B C	10K	C3016	B C	13F	C6519	B C	20K	IC3003	B C	7N	Q6301	B C	22J	R2203
C55	B C	10L	C3017	B C	19C	C6520	B C	21K	IC3004	A D	13E	Q6501	B C	20K	R2204
C56	B C	10K	C3018	A D	13G	C6551	A D	20J	IC5301	A D	16C	Q6502	B C	20K	R2205
C57	B C	10N	C3019	B C	12F	C6552	B C	20J	IC6501	B C	2E	Q6551	A D	20J	R2206
C58	B C	11N	C3020	B C	12F	C6553	A D	20J	IC6650	B C	19G	Q7201	A D	19L	R2207
C59	B C	9N	C3022	B C	13E	C6554	B C	20I	IC7001	B C	22E	QA	A D	7J	R2213
C60	A D	9N	C3023	B C	16B	C6601	A D	19H	IC7002	A D	12B				R2215
C61	B C	11O	C3024	A D	4D	C6602	A D	20H			8A				R2217
C62	B C	11M	C3025	B C	4D	C6603	A D	17H							R2218
C64	B C	10N	C3026	A D	2D	C6604	A D	20G							R2219
C65	B C	13N	C3028	A D	2D	C6605	A D	18G							R2220
C69	B C	15N	C3029	B C	6B	C6650	B C	21D	J1	A D	20Q	R3	B C	10N	R2221
C70	B C	15M	C3030	A D	6B	C6651	B C	22E	J2	A D	21O	R5	B C	11L	R2222
C80	B C	12N	C3035	B C	12F	C6652	B C	22E	J6201	A D	15Q	R6	B C	11K	R2223
C81	B C	11M	C3036	A D	13G	C6653	B C	21D	J6202	A D	16Q	R7	B C	12K	R2224
C87	B C	15N	C3041	B C	9G	C6654	A D	21F	J7101	A D	20A	R8	B C	12K	R2225
C88	B C	15N	C3042	A D	9G	C7001	A D	11B				R9	B C	12K	R2230
C89	B C	14N	C3043	A D	13E	C7002	A D	9B	L1	A D	16N	R12	A D	10O	R2231
C90	B C	14N	C3045	A D	13E	C7007	A D	13B	L2	A D	10N	R21	B C	16N	R2232
C93	B C	11N	C3048	B C	13E	C7008	B C	13A	L3	A D	9L	R22	B C	17N	R2251
C96	B C	8E	C3049	B C	11E	C7009	B C	13B	L4	A D	9L	R23	B C	10N	R2601
C98	A D	15H	C3050	B C	10E	C7010	B C	13B	L5	A D	12J	R24	B C	10N	R2602
C106	B C	11N	C3051	B C	17J	C7011	A D	7B	L11	A D	11L	R36	B C	12K	R2603
C108	B C	10L	C3052	B C	17E	C7012	B C	9B	L13	A D	10M	R37	B C	10K	R3001
C109	B C	12N	C3053	A D	14E	C7013	B C	18B	L15	A D	9O	R38	B C	11K	R3002
C110	B C	12N	C3054	A D	17K	C7014	B C	17A	L16	A D	10N	R39	B C	10K	R3003
C112	B C	10L	C3055	A D	16K	C7019	B C	15A	L17	A D	11N	R41	B C	10K	R3004
C113	B C	10L	C4001	B C	7M	C7020	B C	15A	L24	A D	11N	R42	B C	10K	R3005
C114	B C	10L	C4002	A D	8G	C7021	A D	8A	L27	A D	10L	R43	B C	11K	R3007
C131	B C	9K	C4004	A D	8F	C7201	A D	19L	L28	A D	12N	R44	B C	10K	R3008
C132	B C	12J	C4006	B C	8F	C7206	A D	20L	L201	A D	11G	R45	B C	11K	R3009
C201	A D	11G	C4007	B C	10E				L203	A D	12G	R46	B C	11M	R3010
C202	B C	11G	C4008	A D	7F				L204	A D	13G	R48	B C	9L	R3011
C203	A D	11G	C4009	A D	9F				L401	A D	16O	R49	B C	9K	R3012
C205	B C	11G	C4010	A D	8F				L402	A D	17O	R50	B C	9K	R3013
C207	B C	11G	C4011	A D	7D	CN1	A D	14O	L901	A D	20M	R66	A D	16H	R3014
C208	B C	10G	C4012	B C	8F	CN2001	A D	19L	L2001	A D	16N	R67	A D	8K	R3015
C209	B C	10G	C4014	B C	8G	CN3001	A D	7L	L2251	A D	16M	R69	B C	9M	R3016
C210	B C	10G	C4015	B C	8G	CN3002	A D	7P	L5201	A D	3G	R71	B C	16L	R3017
C211	B C	10G	C4016	B C	8F	CN3003	A D	7N	L5202	A D	1F	R75	B C	11M	R3018
C212	B C	13G	C40												

COMPONENT PARTS LOCATION GUIDE < MAIN > [HR-J677MS, HR-J777MS]

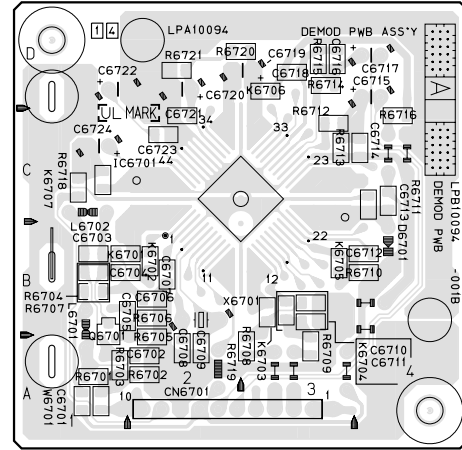
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CAPACITOR																																						
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C2	B	C	14N	C316	B	C	7J	C4016	B	C	13G	CN7001	A	D	16A	L303	A	D	6J	R65	B	C	12N	R3012	B	C	10G	R4003	B	C	11G	R7119	B	C	18P			
C3	B	C	14N	C317	B	C	7J	C5001	A	D	10	CN7003	A	D	2C	L2001	A	D	16N	R71	B	C	12L	R3013	B	C	10G	R4004	B	C	11G	R7120	B	C	18P			
C4	B	C	14N	C318	B	C	7J	C5002	A	D	2N	CN7101	A	D	20H	L2251	A	D	16M	R72	B	C	9L	R3014	B	C	10G	R4005	B	C	11G	R7121	B	C	21P			
C5	B	C	14N	C319	B	C	7J	C5003	A	D	4P	CN7102	A	D	21G	L2252	A	D	16M	R73	B	C	9K	R3015	B	C	10G	R4007	A	D	10H	R7122	B	C	21P			
C6	B	C	14N	C320	B	C	8J	C5005	A	D	1J				L5201	A	D	3G	R75	B	C	10N	R3017	B	C	10G	R4008	B	C	9F	R7123	B	C	20Q				
C7	B	C	14N	C321	B	C	7J	C5006	A	D	2M				L5202	A	D	2G	R77	B	C	8P	R3019	B	C	9G	R4009	B	C	13G	R7124	B	C	20P				
C8	B	C	14O	C322	B	C	7J	C5101	A	D	1N				L6001	A	D	21M	R78	B	C	11J	R3020	B	C	10G	R4010	B	C	13G	R7125	B	C	20Q				
C9	B	C	17C	C2001	A	D	13K	C5102	A	D	1K				L6003	A	D	21N	R79	B	C	12K	R3021	B	C	10F	R4011	B	C	13G	R7127	B	C	19Q				
C10	B	C	8M	C2002	A	D	13L	C5103	B	C	3L				L6031	A	D	21J	R90	B	C	9M	R3022	B	C	10F	R4012	B	C	13G	R7128	B	C	20Q				
C11	B	C	12N	C2003	A	D	16N	C5104	A	D	4M				L6030	A	D	21J	R92	B	C	9N	R3026	B	C	10F	R4013	B	C	12H	R7130	B	C	20P				
C12	B	C	11N	C2004	B	C	16N	C5105	A	D	3L				L7101	B	C	13P	R93	B	C	8N	R3027	B	C	10F	R4014	B	C	14G	R7131	B	C	20K				
C13	B	C	11N	C2005	A	D	14O	C5106	A	D	3J				L7102	B	C	17P	R103	B	C	9M	R3028	B	C	10F	R4015	B	C	13G	R7132	A	D	20J				
C14	B	C	10N	C2006	B	C	13O	C5107	A	D	3K				L7105	A	D	21L	R104	B	C	8N	R3029	A	D	8D	R4016	B	C	14G	R7133	A	D	20J				
C15	B	C	10N	C2007	A	D	13O	C5110	A	D	2K				L7106	A	D	19K	R105	B	C	10L	R3030	A	D	10E	R4017	B	C	13G	R7134	B	C	20K				
C16	B	C	10N	C2008	A	D	13O	C5201	A	D	1I				D3002	A	D	8F	R202	B	C	18G	R3031	B	C	10E	R4018	B	C	13G	R7135	A	D	18J				
C17	B	C	9N	C2009	B	C	13O	C5202	A	D	2H				D3003	A	D	8E	R203	B	C	18G	R3032	B	C	10E	R4019	B	C	12G	R7136	B	C	19M				
C18	A	D	10M	C2010	B	C	13N	C5203	A	D	2G				D3004	A	D	5C	R204	B	C	18G	R3033	B	C	10E	R4020	B	C	9H	R7137	B	C	19M				
C19	A	D	8M	C2011	A	D	12N	C5204	A	D	4G				D3005	A	D	5C	Q1	B	C	17G	R3034	B	C	10E	R4021	B	C	12G	R7140	B	C	20N				
C20	A	D	8M	C2012	A	D	12N	C5205	A	D	2H				D3006	A	D	8H	Q2	B	C	17G	R3035	B	C	9E	R5101	A	D	4M	R7141	B	C	20N				
C21	A	D	8M	C2013	B	C	13N	C5206	A	D	3H				D3008	A	D	10E	Q3	B	C	17H	R3036	B	C	9E	R5102	A	D	4M	R7142	B	C	20N				
C22	B	C	11M	C2014	B	C	9O	C5207	A	D	2F				D3010	B	C	19D	Q4	B	C	19H	R3037	B	C	9E	R5103	A	D	3M	R7160	B	C	18B				
C23	B	C	11M	C2015	A	D	9O	C5208	A	D	2F				D3011	B	C	19D	Q5	B	C	14N	R216	B	C	19H	R3038	B	C	9D	R5104	A	D	1N	R7161	B	C	19A
C24	B	C	8L	C2054	B	C	10O	C5301	A	D	2E				D4001	A	D	13G	Q10	B	C	11K	R220	B	C	19I	R3039	B	C	9D	R5106	A	D	2L	R7162	B	C	19B
C25	B	C	11M	C2055	A	D	11O	C5303	A	D	3E				D4002	A	D	13G	Q21	B	C	9L	R223	B	C	19H	R3040	B	C	9D	R5107	A	D	3K	R7163	B	C	21B
C26	B	C	11M	C2101	A	D	7G	C5305	B	C	1D				D5001	A	D	2M	Q22	B	C	18I	R3041	B	C	9D	R5108	B	C	3L	R7167	B	C	19L				
C27	B	C	11M	C2201	B	C	12K	C5306	A	D	3D				D5101	A	D	1M	Q31	B	C	15H	R3044	B	C	11D	R5109	A	D	3L	R7171	A	D	14M				
C28	B	C	10L	C2202	B	C	12K	C5307	A	D	2D				D5102	A	D	2K	Q34	B	C	9K	R301	B	C	11D	R5110	B	C	3L	R7202	B	C	21G				
C29	A	D	10M	C2203	A	D	12J	C5308	A	D	3D				D5103	A	D	3K	Q35	B	C	7K	R3047	B	C	10D	R5111	B	C	3K	R7203	B	C	21G				
C30	A	D	10M	C2204	B	C	11J	C5309	A	D	4F				D5104	A	D	3L	Q38	B	C	6K	R3048	B	C	10D	R5112	B	C	3K	R7204	A	D	21G				
C31	A	D	10L	C2205	A	D	12J	C5310	A	D	4F				D5201	A	D	1I	Q40	B	C	7K	R3049	B	C	11D	R5113	B	C	4L								
C32	A	D	10L	C2206	A	D	12K	C6005	A	D	21I				D5202	A	D	2I	Q41	B	C	6K	R3050	B	C	11D	R5301	A	D	1C								
C33	A	D	10L	C2207	A	D	13K	C6006	B	C	22M				D5203	A	D	3I	Q42	B	C	7J	R3051	B	C	11D	R5302	B	C	4F								
C34	A	D	10K	C2208	A	D	13K	C6007	A	D	21M				D5204	A	D	3I	Q44	B	C	6J	R3052	B	C	11D	R5303	B	C	4F								
C35	A	D	10K	C2209	A	D	13K	C6008	B	C	22M				D5205	A	D	3I	Q401	B	C	6K	R3053	B	C	11D	R5304	A	D	1F								
C36	A	D	10K	C2210	A	D	14K	C6012	A	D	21N				D5206	A	D	3I	Q302	B	C	6J	R3054	B	C	11D	R5305	B	C	4H								
C37	A	D	11K	C2211	A	D	14K	C6013	B	C	22P				D5207	A	D	3I	Q311	B	C	7J	R3055	B	C	12D	R5306	B	C	3E								
C38	A	D	12K	C2212	A	D	15K	C6016	B	C	22O				D5210	A	D	2H	Q312	B	C	6J	R3056	B	C	12D	R5307	B	C	1H								
C39	A	D	12K	C2213	A	D	14K	C6020	B	C	22N				D5211	A	D	2I	Q312	B	C	7J	R3057	B	C	12D	R5308	B	C	3H								
C40	A	D	12K	C2214	A	D	14K	C6021	B	C	22N				D5212	A	D	2I	Q2001	B	C	8J	R3058	B	C	12D	R5309	B	C	3G								
C41	A	D	12K	C2215	A	D	14K	C6022	B	C	22N				D5301	A	D	2G	Q2002	B	C	13O	R314	B	C	12D	R5310	B	C	3F								
C42	A	D	8M	C2216	A	D	14K	C6022	B	C	22N				D5302	A	D	1F	Q2003	B	C	8J	R3059	B	C	12D	R5311	B	C	3F								
C43	A	D	8M	C2217	A	D	14L	C6023	B	C	22M				D5303	A	D	1F	Q2051	B	C	8J	R3060	B	C	12D	R5311	B	C	3F								
C44	A	D	8M	C2218	A	D	14L	C6032	B	C	21I				D5304	A	D	1F	Q2052	B	C	10O	R316	B	C	12D	R5313	A	D	1D								
C45	B	C	10K	C2219	A	D	14L	C6037	A	D	21J				D5305	A	D	5G	Q2053	B	C	8J	R3061	B	C	12D	R5313	A	D	1D								
C46	B	C	12K	C2219	A	D	16L	C6052	B	C	22O				D5306	A	D	2F	Q2054	B	C	11O</																

4.19 MAIN, A/C HEAD, MINI OPE, R.PAUSE, LITHIUM BATTERY AND LOADING MOTOR CIRCUIT BOARDS [HR-J677MS, HR-J777MS]



4.20 DEMODULATOR CIRCUIT BOARD [HR-J777MS]

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LPB10094-001B

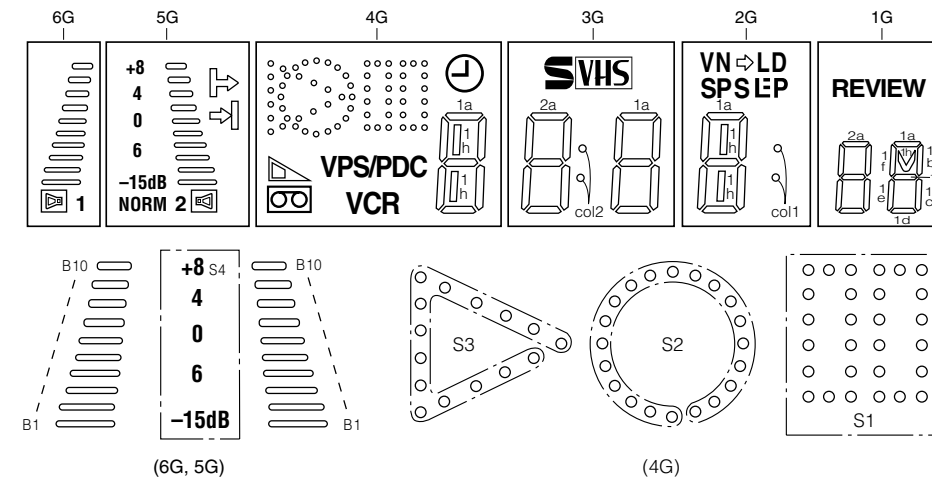


COMPONENT PARTS LOCATION GUIDE
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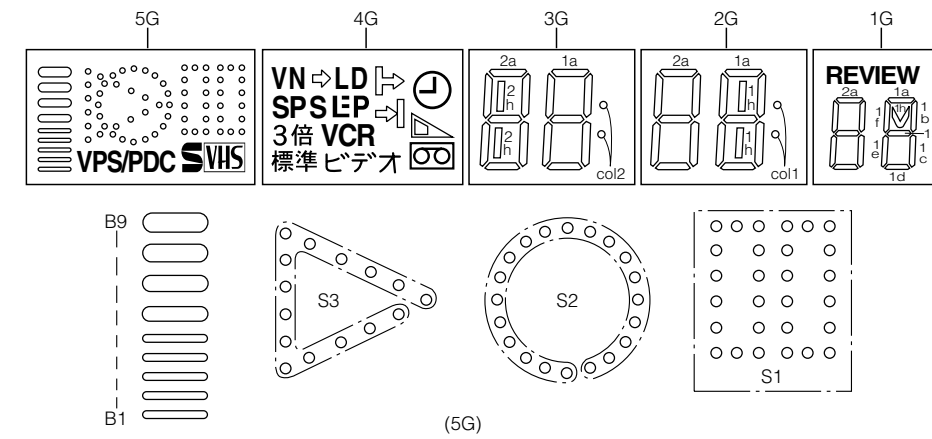
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C6701	B C 1A	CN6701	A D 3A	R6711	B C 4C	
C6702	B C 2A	DIODE			R6712	B C 3C
C6703	B C 1B	D6701	A D 4B	R6713	B C 3C	
C6704	B C 1B	IC			R6714	B C 3D
C6705	B C C 2B	COIL			R6715	B C 3D
C6706	B C C 2B	L6701	A D 1A	R6716	B C 4C	
C6707	B C C 2B	L6702	A D 1C	R6718	B C 1C	
C6708	B C C 2A	TRANSISTOR			R6719	A D 2A
C6709	B C C 2A	Q6701	B C 1B	R6720	B C 3D	
C6710	B C C 3B	RESISTOR			R6721	B C 2D
C6711	B C C 3B	R6701	B C 1A	OTHER		
C6712	B C C 4B	R6702	B C 2A	K6701	B C 1B	
C6713	B C C 4C	R6703	B C 1A	K6702	B C 2B	
C6714	A D 4D	R6704	B C 1B	K6703	B C 3B	
C6715	A D 4D	R6705	B C 2A	K6704	B C 3B	
C6716	B C 4D	R6706	B C 2B	K6705	B C 3B	
C6717	A D 4D	R6707	B C 1B	K6706	B C 3D	
C6718	B C 3D	R6708	B C 3A	K6707	B C 1C	
C6719	A D 3D	R6709	B C 3A	X6701	B C 2B	
C6720	A D 2D	R6710	B C 4B			
C6721	B C 2C					
C6722	A D 1D					
C6723	B C 2C					
C6724	A D 1C					

4.21 FDP GRID ASSIGNMENT AND CONNECTION

[A] (FDP with audio level indicator)



[B] (FDP without audio level indicator)



ANODE CONNECTION

[A]

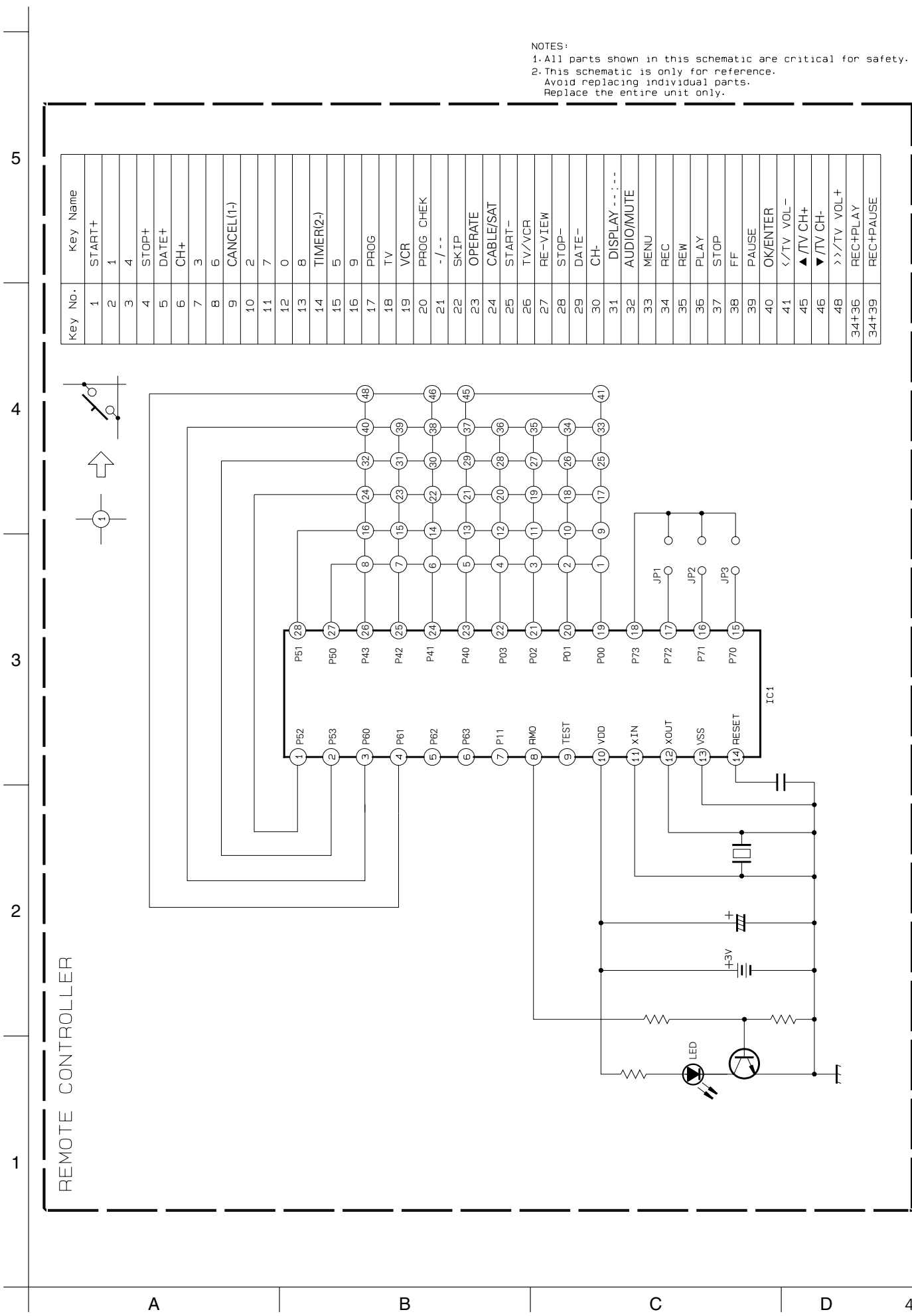
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P 1	—	↗	S2	1a	1a	1a
P 2	—	↘	S1	1b	1b	1b
P 3	—	S4	S3	1f	1f	1f
P 4	—	NORM	VPS/PDC	1g	1g	1g
P 5	1	2	⌚	1c	1c	1c
P 6	Ⓜ	Ⓜ	Ⓜ	1e	1e	1e
P 7	B10	B10	Ⓜ	1d	1d	1d
P 8	B9	B9	VCR	col2	1h	1h
P 9	B8	B8	1a	2a	col1	2a
P10	B7	B7	1b	2b	↔	2b
P11	B6	B6	1f	2f	VN	2f
P12	B5	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	S-VHS	LP _(SEP)	REVIEW

ANODE CONNECTION

[B]

	5G	4G	3G	2G	1G
P 1	S2	↗	1a	1a	1a
P 2	S1	↘	1b	1b	1b
P 3	S3	3倍	1f	1f	1f
P 4	VPS/PDC	標準	1g	1g	1g
P 5	S-VHS	⌚	1c	1c	1c
P 6	—	Ⓜ	1e	1e	1e
P 7	—	Ⓜ	1d	1d	1d
P 8	B9	VCR	col2	1h	1h
P 9	B8	ビデオ	2a	2a	2a
P10	B7	↔	2b	2b	2b
P11	B6	VN	2f	2f	2f
P12	B5	LD	2g	2g	2g
P13	B4	SP	2c	2c	2c
P14	B3	S _(SEP)	2e	2e	2e
P15	B2	⋮ _(SEP)	2d	2d	2d
P16	B1	LP _(SEP)	2h	col1	REVIEW

4.22 REMOTE CONTROL SCHEMATIC DIAGRAM



A

B

C

D

4-45

4.23 VOLTAGE CHARTS [HR-J271MS, HR-J471MS]

<VIDEO/AUDIO>		
MODE PIN NO.	REC	PLAY
IC1		
1	1.4	2.1
2	2.9	2.9
3	2.5	2.5
4	1.9	1.4
5	1.9	1.5
6	2.4	2.1
7	1.5	0.8
8	0	0
9	2.6	3.0
10	2.7	2.4
11	3.0	3.0
12	2.8	2.5
13	3.0	3.1
14	2.3	2.3
15	0	0
16	2.8	2.8
17	1.5	1.5
18	2.8	2.8
19	0	2.8
20	2.8	2.8
21	2.0	2.0
22	2.8	2.8
23	2.8	2.8
24	5.0	5.0
25	0.4	0.4
26	0	0
27	2.3	2.1
28	2.3	2.3
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	2.7
37	2.3	2.3
38	-	-
39	1.2	1.2
40	-	-
41	2.5	2.5
42	-	-
43	0	0
44	2.2	2.2
45	4.4	4.6
46	4.9	4.5
47	2.7	2.7
48	2.5	2.5
49	5.0	5.0
50	2.5	2.5
51	2.8	2.8
52	0	0
53	2.5	2.5
54	0	0
55	0	0
56	0	0
57	0	0
58	0	0
59	0	0
60	0	0
61	0	0
62	0	0
63	0	0
64	0	0
65	2.1	2.1
66	0	0
67	0	0
68	0	0
69	0	0
70	0	0
71	0	0
72	0	0
73	3.0	3.0
74	0	0
75	0	0
76	0	0
77	0	0
78	0	0
79	5.0	5.0
80	5.0	5.0
81	0	0
82	0	0
83	0	0
84	2.3	2.3
85	2.3	2.3
86	2.3	2.3
87	5.0	5.0
88	0	0
89	0	0
90	0	0
91	0	4.0
92	2.6	2.6
93	0.9	0.9
94	0	0
95	2.5	2.5
96	2.5	2.5
97	2.5	2.5
98	0	0
99	2.5	2.5
100	0	0

<SYSTEM CONTROL>		
MODE PIN NO.	REC	PLAY
IC3001		
1	-	-
2	-	-
3	0	0
4	0	0
5	4.9	4.9
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	5.0
13	0	0
14	0	0
15	4.9	4.9
16	4.8	4.8

<VIDEO/AUDIO>		
MODE PIN NO.	REC	PLAY
Q12		
E	-	-
C	-	-
B	-	-
Q22		
E	1.7	1.7
C	5.0	5.0
B	2.3	2.3
Q38		
E	3.1	3.1
C	5.0	5.0
B	3.7	3.7
Q39		
E	0	0
C	0	0
B	0	0
Q40		
E	0	0
C	0	0
B	0	0
Q41		
E	0	0
C	0	0
B	0	0
Q42		
E	0	0
C	0	0
B	5.0	5.0
Q2001		
E	-9.7	0
C	0	0
B	-16.5	0.7
Q2002		
E	-9.7	0
C	0	0
B	-16.2	0.7
Q2003		
E	5.0	5.0
C	-16.3	4.9
B	4.9	0
Q2051		
E	0	0
C	7.5	0.3
B	0.5	0.3
Q2052		
E	10.8	10.9
C	10.7	0.4
B	10.1	10.9
Q2053		
E	0	0
C	0	10.8
B	4.9	0
Q2054		
E	10.7	0.4
C	10.5	0.2
B	9.9	0.4
Q2055		
E	0	0
C	0	0.5
B	4.9	0
CN1		
1	0	0
2	0	0
3	0	0
4	0	0
5	2.3	2.3
6	2.3	2.3
7	2.3	2.3
8	2.3	2.3
CN2001		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	2.2	2.3
7	2.4	2.3
CN2002		
1	0	0
2	0	0

<SW.REG>		
MODE PIN NO.	REC	PLAY
IC5301		
1	5.7	5.7
2	5.1	5.1
3	4.6	4.6
4	0	0
5	11.5	11.5
6	10.9	10.9
7	11.6	11.6
8	5.7	5.7
9	1.3	1.3
10	4.4	4.4
Q5101		
D	133.5	131.4
S	-	-
G	-	-
Q5102		
E	0	0
C	-	-
B	-	-
Q5301 [HR-J471MS]		
E	21.3	22.6
C	10.9	10.9
B	21.2	22.4
Q5302 [HR-J471MS]		
E	0	0
C	21.2	22.4
B	0	0
Q5303		
E	4.9	4.9
C	5.7	5.7
B	5.6	5.6

<TUNER>		
MODE PIN NO.	REC	PLAY
IC7001		
3	0	0
4	0	0
5	4.8	4.8
6	4.8	4.8
7	0	0
8	4.9	4.9
Q202		
E	-	-
C	-	-
B	-	-
Q3001		
E	0	0
C	4.4	4.4
Q3002		
E	0	0
C	4.7	4.9
Q3003		
E	0	0
C	11.4	11.4
B	0.6	0.6
Q3004		
E	0	0
C	0	0
B	0.7	0.7
Q4001		
E	0	0
C	0	0
B	4.4	4.4
Q4002		
E	4.8	4.8
C	5.8	5.8
B	5.5	5.5
CN3001		
1	0	0
2	2.5	2.5
3	2.5	2.5
4	5.0	5.0
5	0	0
6	4.9	4.9
7	-	-
8	11.7	11.7
CN3002		
1	11.7	11.7
2	0	0
3	1.4	1.4
4	0.4	0.4
5	2.6	2.6
CN3003		
1	0.2	0.2
2	0.3	0.3
CN3004		
1	4.9	4.9
2	4.9	4.9
3	0	0
4	0	0
CN3007		
1	-	-
2	0	0
IC7002		
1	5.1	5.1
2	5.1	5.1
3	0	0
CN7001		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	0	0
8	5.0	5.0
9	5.0	5.0

<LITHIUM BATTERY>		
MODE PIN NO.	REC	PLAY
FW7106		
1	-	-
2	0	0

<DISPLAY>		
MODE PIN NO.	REC	PLAY
IC7001		
1	4.9	4.9
2	2.1	2.1
3	0	0
4	2.1	2.1
5	4.9	4.9
6	0	0
7	0	0
8	0	0
9	0	0
10	4.9	4.9
11	4.9	4.9
12	-	-
13	4.3	-
14	4.9	4.9
15	-	-
16	-27.3	-27.3
17	-27.3	-27.3
18	-27.1	-27.1
19	-27.1	-27.1
20	-27.1	-27.1
21	-23.0	-23.0
22	-	-
23	-	-
24	-	-
25	-	-
26	-	-
27	-	-
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	-	-
35	-	-
36	-	-
37	-	-
38	-	-
39	-	-
40	-	-
41	-	-
42	-	-
43	-	-
44	4.9	4.9

<TERMINAL>		
MODE PIN NO.	REC	PLAY
Q901		
E	2.4	2.4
C	0	0
B	1.7	1.7

<MINI FRONT>		
MODE PIN NO.	REC	PLAY
CN7002		
1	5.0	5.0
2	5.0	5.0
3	0	0
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-

4-46

4.24 VOLTAGE CHARTS [HR-J677MS, HR-J777MS]

<VIDEO/AUDIO>

MODE PIN NO.	REC	PLAY
IC1		
1	1.4	2.1
2	2.9	2.9
3	2.5	2.5
4	1.9	1.4
5	1.9	1.5
6	2.4	2.1
7	1.5	0.8
8	0	0
9	2.6	3.0
10	2.5	2.5
11	3.0	3.0
12	2.8	2.5
13	3.0	3.0
14	2.3	2.3
15	0	0
16	2.8	2.8
17	1.5	1.5
18	2.8	2.8
19	0	2.6
20	2.8	2.8
21	2.0	2.0
22	2.8	2.8
23	2.8	2.8
24	5.0	5.0
25	0.4	0.4
26	0	0
27	2.3	2.3
28	2.3	2.3
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	2.7
37	2.3	2.3
38	-	-
39	1.2	1.2
40	-	-
41	2.5	2.5
42	-	-
43	0	0
44	2.2	2.2
45	4.8	4.8
46	4.2	4.2
47	2.7	2.7
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	2.3
58	8.2	8.2
59	4.8	4.8
60	4.2	4.2
61	4.1	4.1
62	4.1	4.1
63	2.3	2.3
64	2.3	2.3
65	1.5	1.5
66	3.0	3.0
67	4.2	4.2
68	4.2	4.2
69	2.3	2.3
70	0	0
71	0.3	0.3
72	0.2	0.2
73	0.2	0.2
74	2.3	2.3
75	2.5	2.5
76	0	0
77	2.5	2.5
78	0.3	0.3
79	0.2	0.2
80	0.2	0.2
81	2.3	2.3
82	0.7	0.7
83	0	0
84	2.3	2.3
85	2.3	2.3
86	2.2	2.2
87	1.6	1.8
88	2.3	2.3
89	2.3	2.3
90	2.3	2.3
91	0	0
92	0	0
93	0	2.4
94	0	1.5
95	0	0
96	2.4	2.4
97	2.7	2.3
98	2.5	2.3
99	4.9	4.9
100	5.0	5.0

MODE PIN NO.	REC	PLAY
101	0	0
102	0	0
103	0	0
104	2.3	2.3
105	2.3	2.3
106	2.3	2.3
107	4.9	4.9
108	0	0
109	0	0
110	0	0
111	0	1.6
112	2.5	2.5
113	0.5	1.0
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	4.6	4.6

MODE PIN NO.	REC	PLAY
5	2.4	2.3
6	2.4	2.3
7	2.4	2.3
8	2.4	2.3
9	2.7	2.3
10	2.7	2.3
11	2.7	2.3
CN2001		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	2.2	2.4
7	2.4	2.4
CN2002		
1	0	0
2	0	0

<ON SCREEN>

MODE PIN NO.	REC	PLAY
Q1		
E	2.4	2.4
C	2.4	2.4
B	0	0
Q2		
E	2.4	2.4
C	2.4	2.4
B	0	0
Q3		
E	0	0
C	0	0
B	0.7	0.7
Q4		
E	0	0
C	0	0
B	0.7	0.7
Q22		
E	1.7	1.7
C	5.0	5.0
B	2.3	2.3
Q38		
E	2.3	2.3
C	5.0	5.0
B	3.0	3.0
Q39		
E	0	0
C	0	0
B	0	0
Q40		
E	0	0
C	0	0
B	0	0
Q41		
E	0	0
C	0	0
B	0	0

<SYSTEM CONTROL>

MODE PIN NO.	REC	PLAY
IC3001		
1	2.7	2.4
2	0	0
3	1.8	2.4
4	2.4	2.4
5	2.4	2.4
6	2.5	2.5
7	2.4	2.4
8	2.4	2.4
9	4.8	4.8
10	4.9	4.9
11	0.4	0.4
12	0.4	0.4
13	0	0
14	0	1.4
15	4.9	4.9
16	0	0
17	4.3	4.1
18	0	0
19	0	0
20	0	1.7
21	4.1	4.1
22	4.4	4.4
23	0	0
24	4.8	4.8
25	4.9	4.9
26	4.9	4.9
27	4.9	4.9
28	0	0
29	4.9	4.9
30	4.3	4.3
31	4.9	4.9
32	0	0
33	0	0
34	4.3	4.3
35	0	0
36	0	0
37	0	0
38	4.8	4.8
39	4.8	4.8
40	0	0
41	2.7	2.7
42	0	0
43	0	0
44	0	0
45	4.9	4.9

MODE PIN NO.	REC	PLAY
46	0.5	0.5
47	0.5	0.5
48	4.9	4.9
49	4.2	4.2
50	4.8	4.8
51	4.9	4.9
52	-	1.0
53	4.3	4.3
54	-	-
55	3.1	3.1
56	0	0
57	0	0
58	3.1	3.1
59	-	-
60	0	0
61	0	0
62	0	0
63	0	0
64	-	-
65	-	-
66	-	-
67	-	-
68	0	0
69	-	-
70	4.8	4.8
71	4.8	4.8
72	4.8	4.8
73	4.8	4.8
74	0	0
75	4.5	4.5
76	4.5	4.5
77	5.0	5.0
78	3.1	3.1
79	0	4.8
80	0	0
81	0	0
82	4.9	4.9
83	0	0
84	0	0
85	0	0

MODE PIN NO.	REC	PLAY
Q3004		
E	0	0
C	0	0
B	0.7	0.7
Q3005		
E	4.8	4.8
C	5.6	5.6
B	5.4	5.4
Q4001		
E	0	0
C	0	0
B	4.8	4.8
CN3001		
1	11.2	11.2
2	0	0
3	1.4	1.4
4	0	0
5	1.5	1.5
CN3002		
1	0.4	0.4
2	0.4	0.4
CN3003		
1	0	0
2	2.5	2.5
3	2.5	2.5
4	5.0	5.0
5	0	0
6	4.9	4.9
7	-	-
8	11.9	11.9
CN3004		
1	4.9	4.9
2	4.9	4.9
3	0	0
4	0	0
CN3005		
1	-	-
2	0	0

<SW.REG>

MODE PIN NO.	REC	PLAY
IC5301		
1	5.7	5.7
2	5.1	5.1
3	4.8	4.8
4	0	0
5	11.2	11.2
6	10.6	10.6
7	11.9	11.9
8	5.7	5.7
9	1.3	1.3
10	4.2	4.2
Q5101		
D	133.5	131.4
S	-	-
G	-	-
Q5102		
E	0	0
C	-	-
B	-	-
Q5303		
E	4.9	4.9
C	5.6	5.6
B	5.5	5.5

<TUNER>

MODE PIN NO.	REC	PLAY
Q6030		
E	0.7	0.7
C	0	0
B	0	0
Q6032		
E	0	0
C	0	0
B	4.4	4.4
CN6701 [HR-J777MS]		
1	0	0
2	4.6	4.6
3	4.5	4.5
4	-	-
5	0.3	0.3
6	0.3	0.3
7	4.9	4.9
8	0	0
9	0	0
10	2.4	2.4

MODE PIN NO.	REC	PLAY
IC3004		
1	11.9	11.9
2	0.4	0.4
3	0	0
4	0.3	0.3
5	11.9	11.9
6	11.9	11.9
7	0	0
8	0	0
9	0	0
Q3001		
E	0	0
C	11.9	11.9
B	0	0
Q3002		
E	0	0
C	4.1	4.1
Q3003		
E	0	0
C	4.7	4.7

<DISPLAY>

MODE PIN NO.	REC	PLAY
IC7001		
1	4.9	4.9
2	2.1	2.1
3	0	0
4	2.1	2.1
5	4.9	4.9
6	4.9	4.9
7	4.9	4.9
8	4.9	4.9
9	4.9	4.9
10	4.9	4.9
11	4.9	4.9
12	4.3	4.3
13	-	1.0
14	4.9	4.9
15	4.3	4.3
16	-26.1	-26.1
17	-26.1	-26.1
18	-25.9	-25.9
19	-25.9	-25.9
20	-25.9	-25.9
21	-22.0	-22.0
22	-	-
23	-	-
24	-	-
25	-	-
26	-	-
27	-	-
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	-	-
35	-	-
36	-	-
37	-	-
38	-	-
39	-	-
40	-	-
41	-	-
42	-	-
43	-	-
44	4.9	4.9
IC7002		
1	4.9	4.9
2	4.9	4.9
3	0	0
CN7003		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	0	0
8	5.0	5.0
9	5.0	5.0

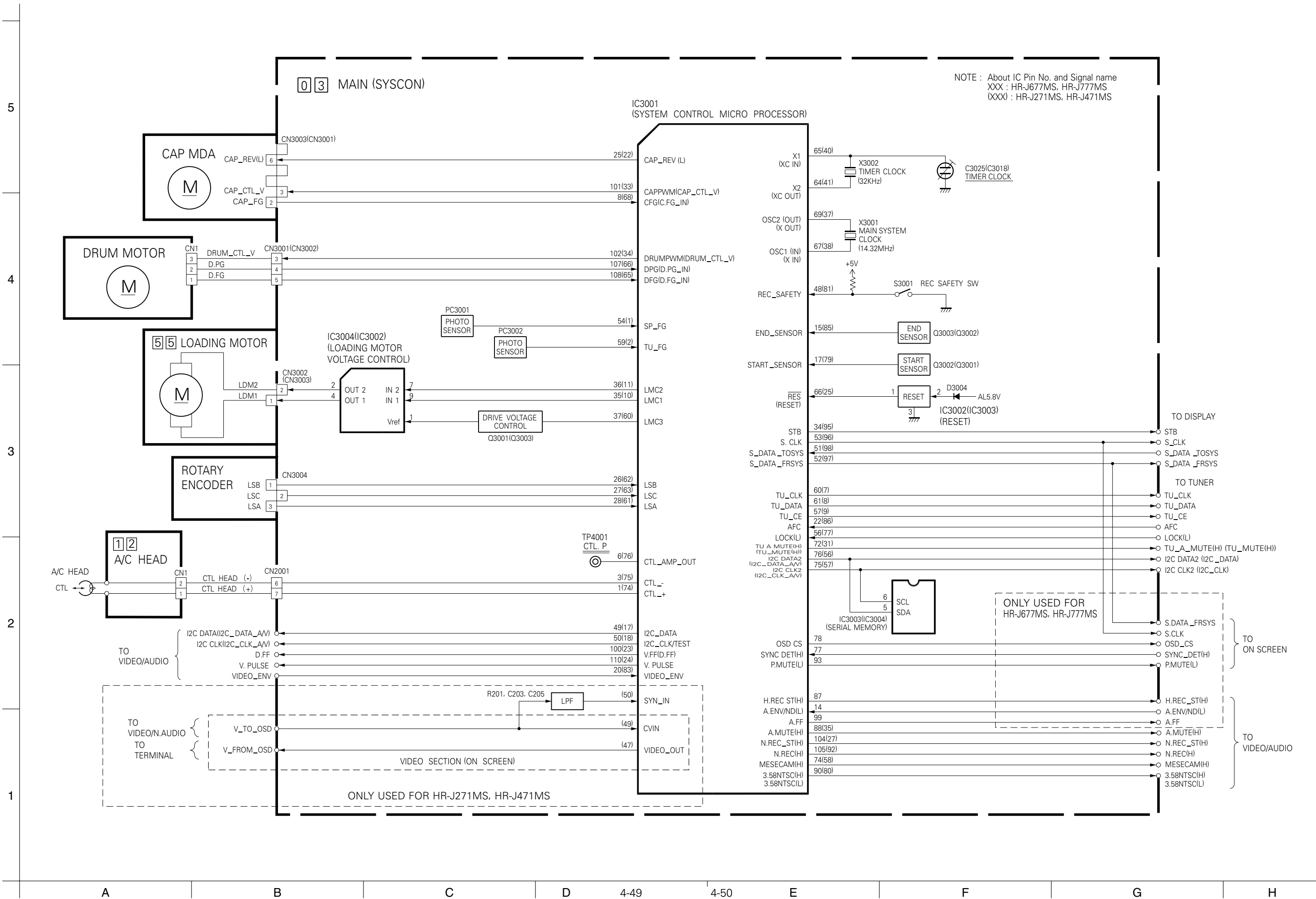
<TERMINAL>

MODE PIN NO.	REC	PLAY
Q7105		
E	3.0	3.0
C	0	0
B	2.3	2.3
CN7102		
1	-	-
2	0	0

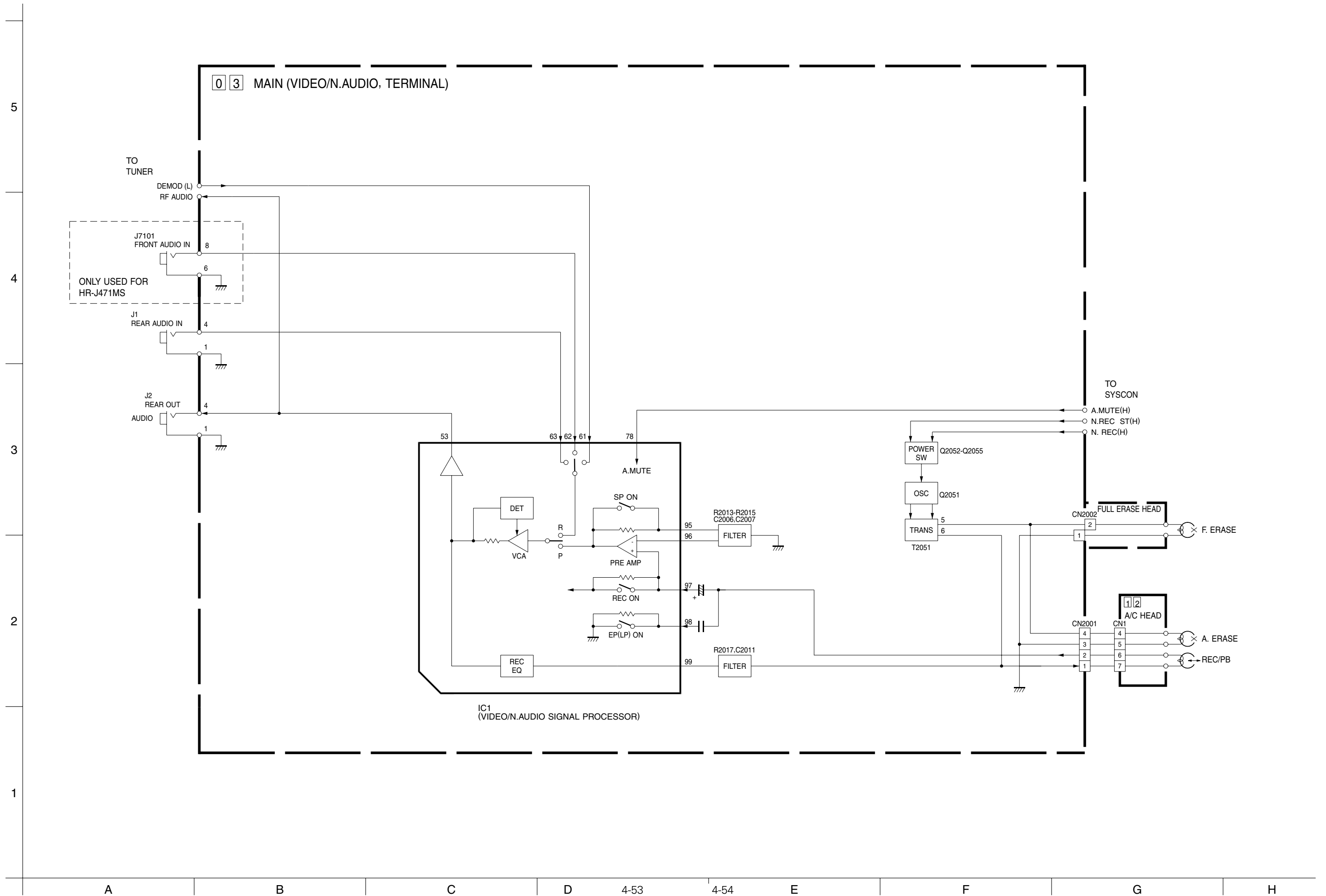
<DEMODULATOR>
[HR-J777MS]

MODE PIN NO.	REC	PLAY
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4.25 SYSTEM CONTROL BLOCK DIAGRAM



4.27 AUDIO BLOCK DIAGRAM [HR-J271MS, HR-J471MS]



4.28 AUDIO BLOCK DIAGRAM [HR-J677MS, HR-J777MS]

