


SECTION 4 CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions

The Components identified by the symbol  are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

1) All resistance values are in ohm, 1/6 W, 1/8 W (refer to parts list).

Chip resistors are 1/16 W.

K or k: k 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

AUX or AUX(L) : Active at low

3. Interpreting Connector indications



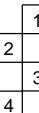
Removable connector



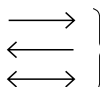
Wire soldered directly on board



Non-removable Board connector



Board to Board



Connected pattern on board
The arrows indicate signal path

4. Voltage measurement

1) Video circuits

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

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

— : Unmeasurable or unnecessary to measure

2) Audio circuits

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

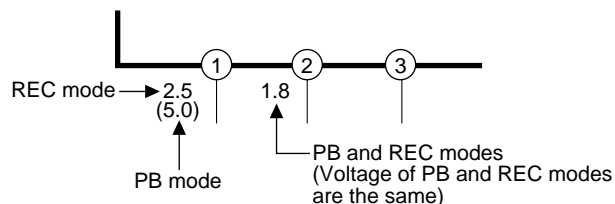
PB : REC then playback it

3) Movie Camera circuits

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

4) Indication on schematic diagram

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



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

5. Waveform measurement

1) Video circuits

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

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

2) Audio circuits

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

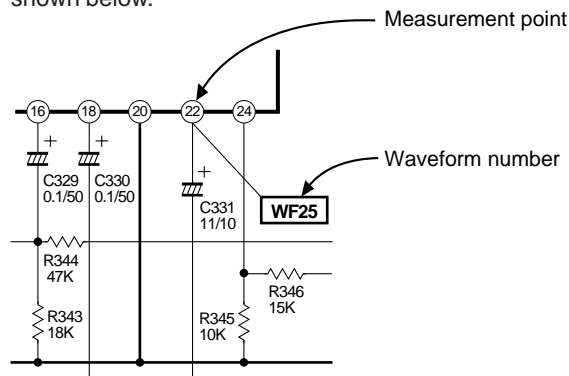
PB : REC then playback it

3) Movie Camera circuits

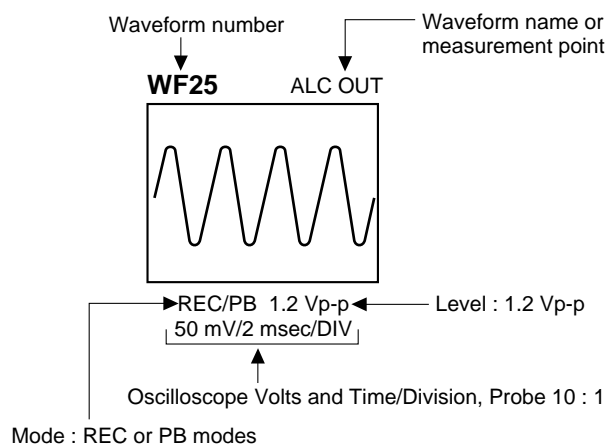
Measured using a correctly illuminated gray scale or colour bar test charts in the E-E mode

4) Indication on schematic diagram

Waveform indications on the schematic diagram are as shown below.

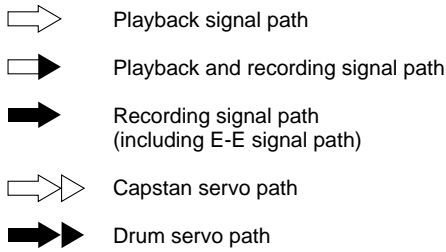


5) Waveform indications

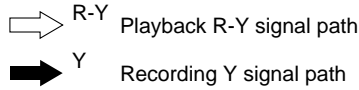


6. Signal path Symbols

The arrows indicate the signal path as follows.



(Example)



7. Indication of the parts for adjustments

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



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

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



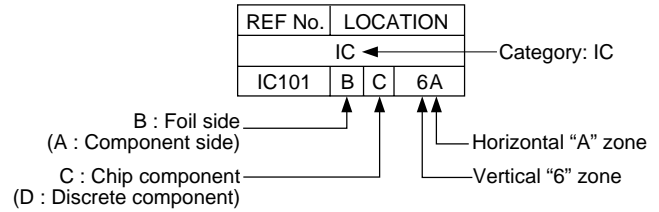
CIRCUIT BOARD NOTES

1. Foil and Component sides

- 1) Foil side (B side) :
Parts on the foil side seen from foil face (pattern face) are indicated.
- 2) Component side (A side) :
Parts on the component side seen from component face (parts face) indicated.

2. Parts location guides

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

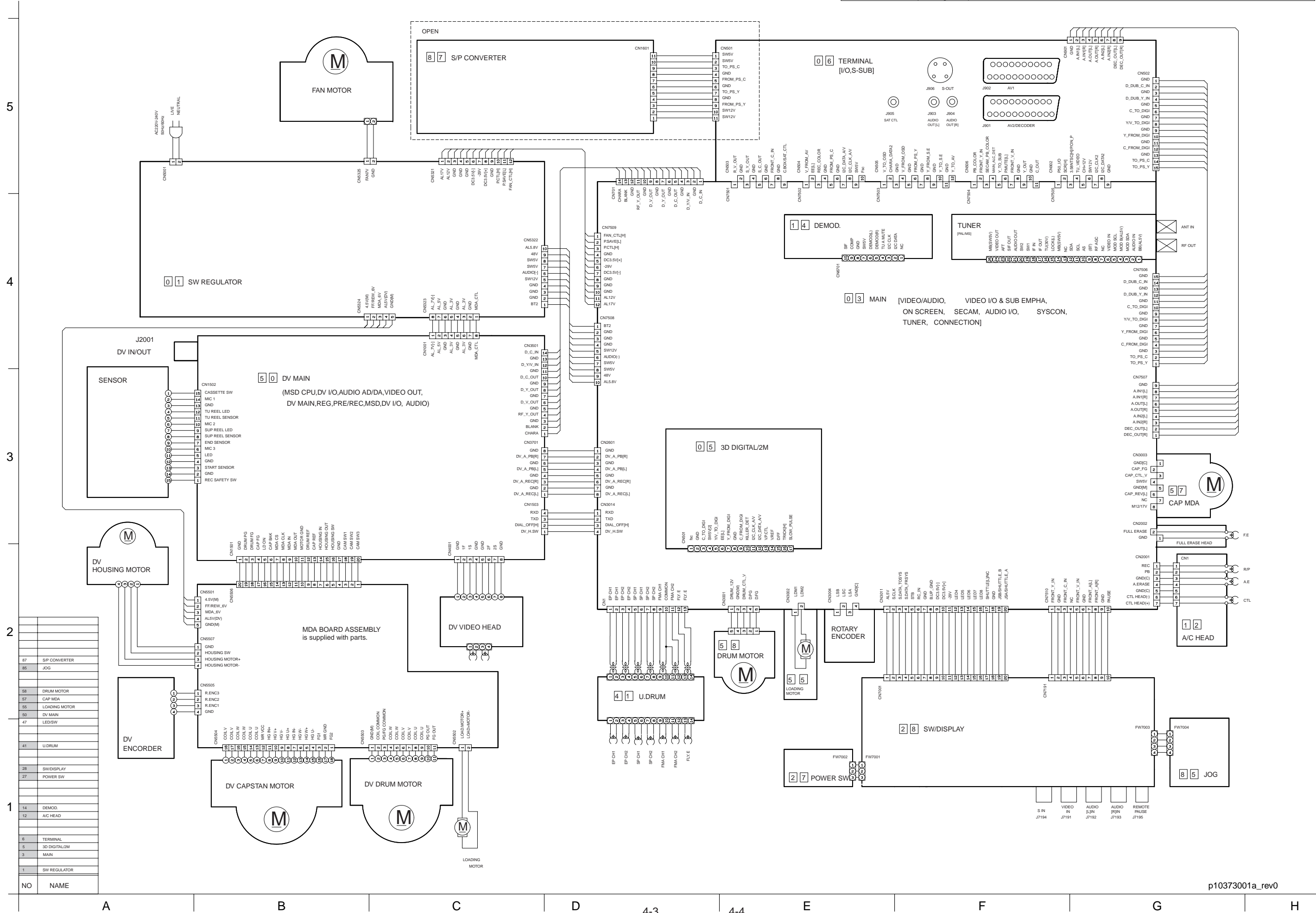


Note:

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

4.1 BOARD INTERCONNECTIONS

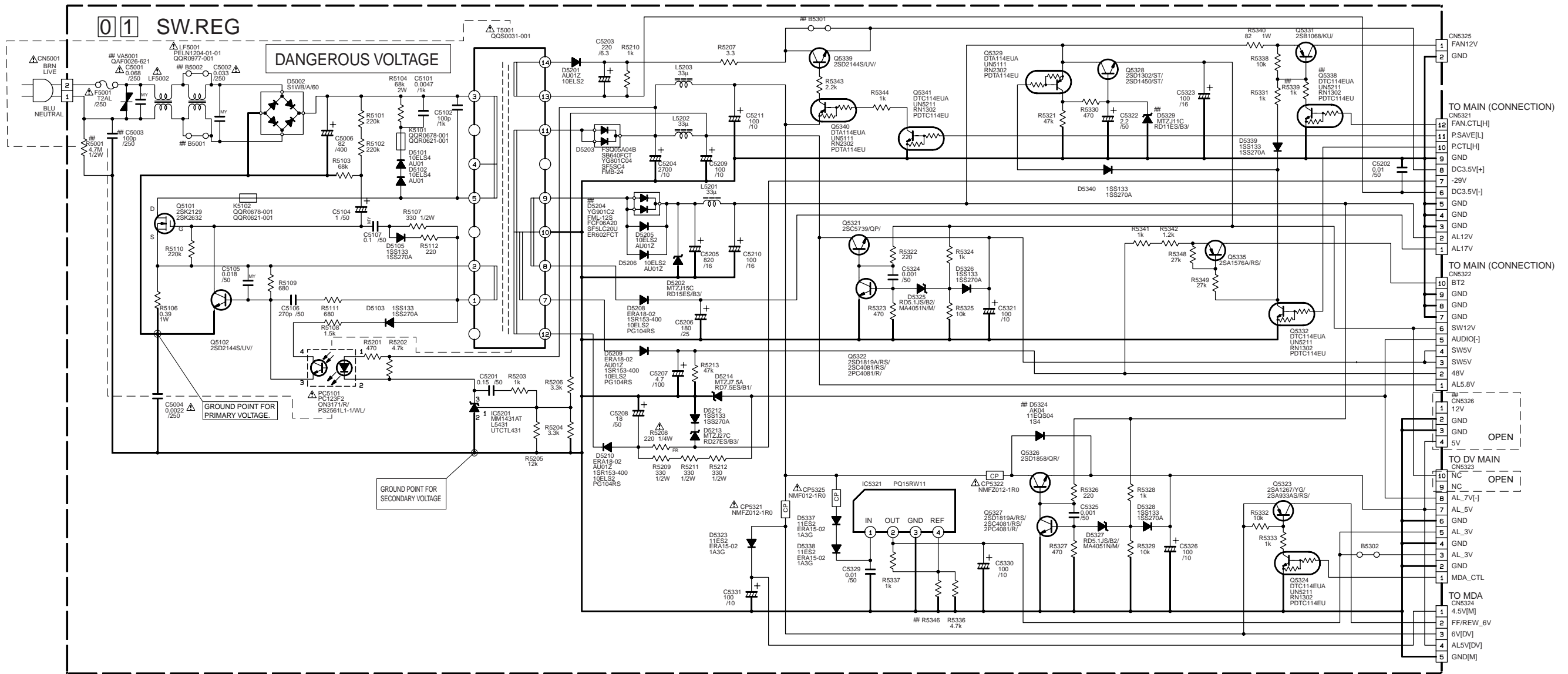
Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



NO	NAME
1	SW REGULATOR
3	MAIN
5	3D DIGITAL/2M
6	TERMINAL
12	A/C HEAD
14	DEMOD.
27	POWER SW
28	SW/DISPLAY
41	U.DRUM
47	LED/SW
50	DV MAIN
55	LOADING MOTOR
57	CAP MDA
58	DRUM MOTOR
85	JOG
87	S/P CONVERTER

4.2 SWITCHING REGULATOR SCHEMATIC DIAGRAM

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.

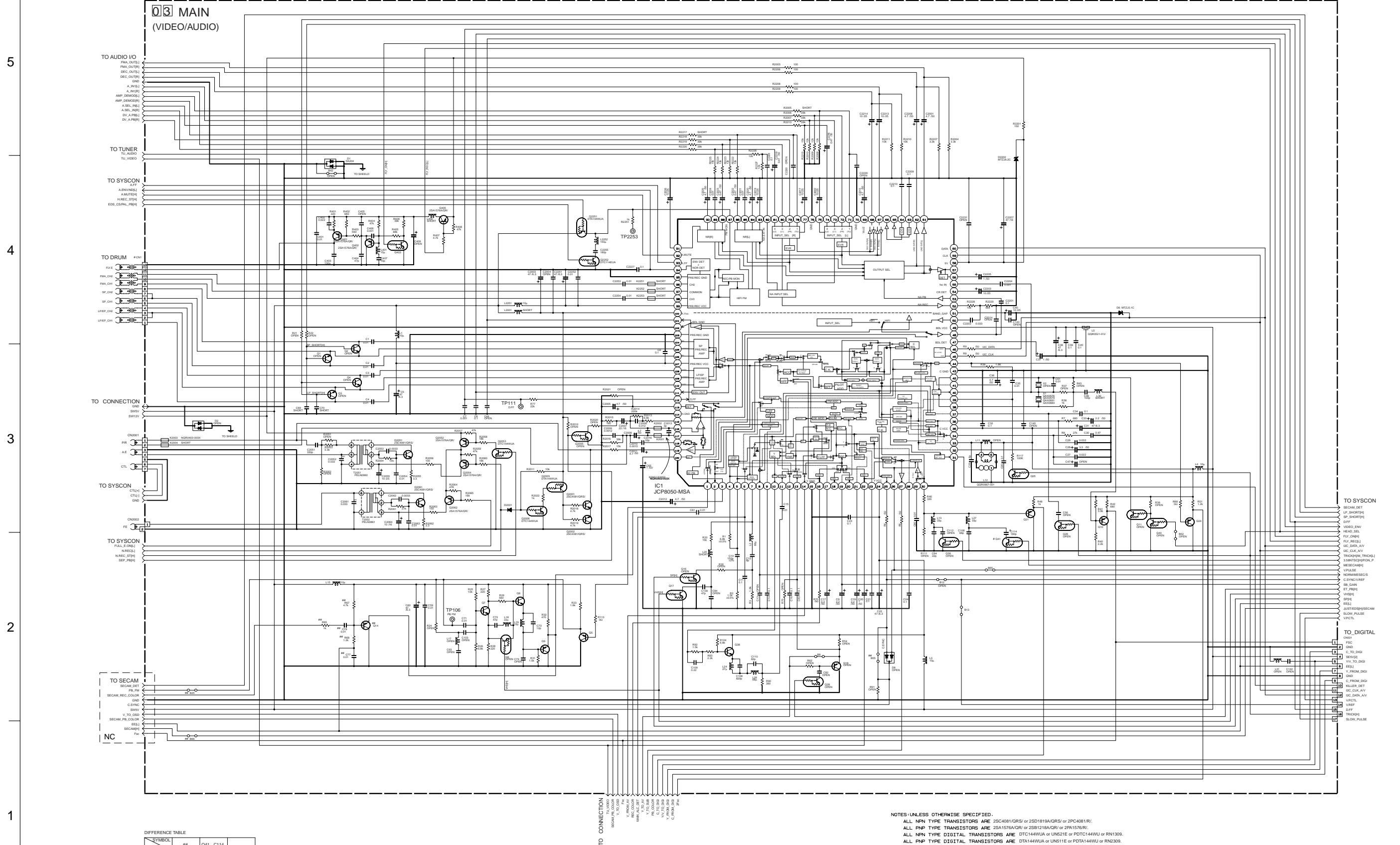


MARK ELEMENTS ARE NOT MOUNTED

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

4.3 MAIN (VIDEO/AUDIO) SCHEMATIC DIAGRAM

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.



DIFFERENCE TABLE

SYMBOL	#	Q41, C114
EU/EEA	NO	YES
EM	NO	NO
MS	YES	YES

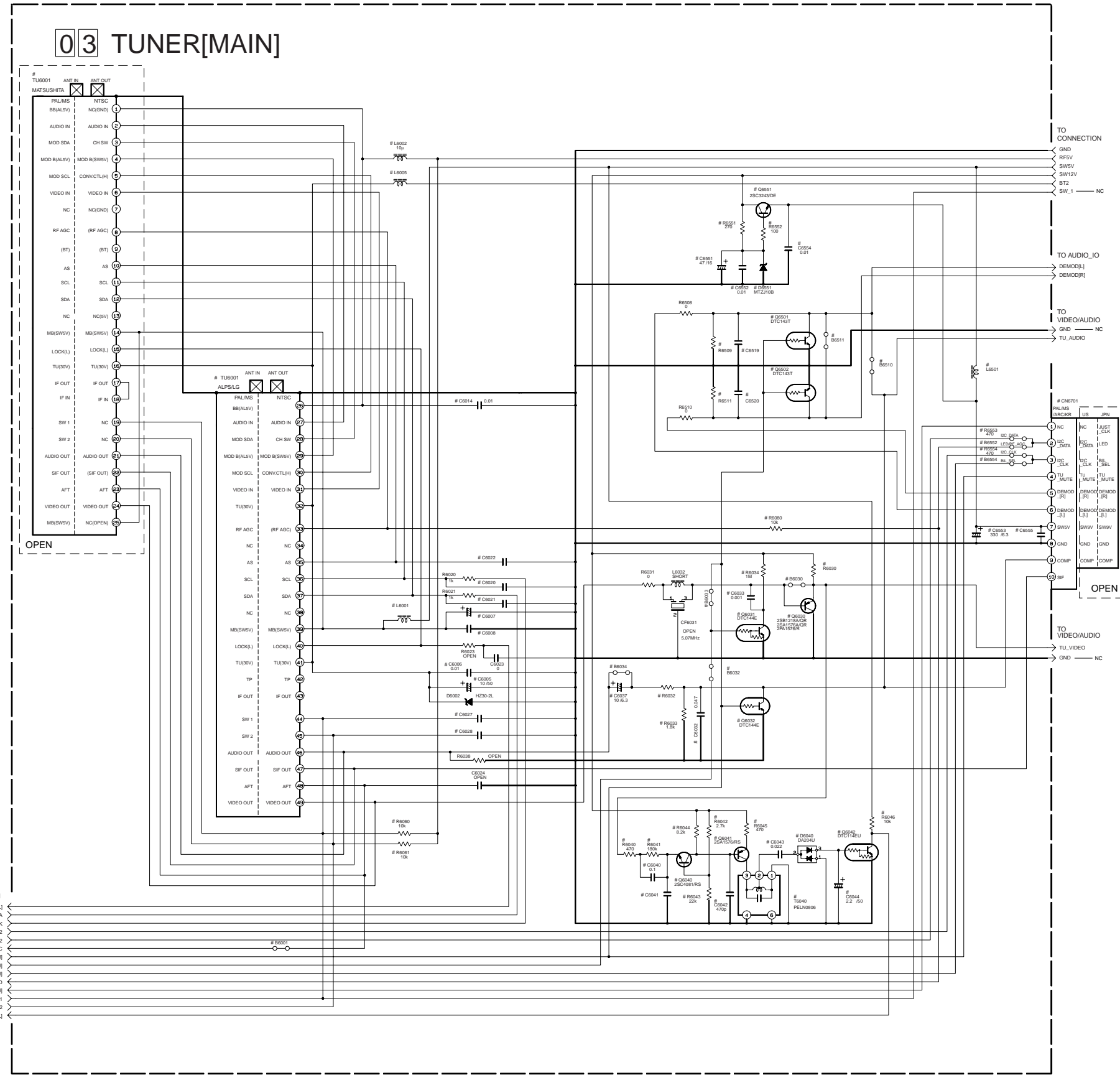
NOTES: UNLESS OTHERWISE SPECIFIED:
 ALL NPN TYPE TRANSISTORS ARE 2SC4081(QRS) or 2SD1819A(QRS) or 2PC4081(R).
 ALL PNP TYPE TRANSISTORS ARE 2SA1576A(QR) or 2SB1218A(QR) or 2PA1576(R).
 ALL NPN TYPE DIGITAL TRANSISTORS ARE DTC144W(UA) or U5N21E or PDT144W(U) or RN1309.
 ALL PNP TYPE DIGITAL TRANSISTORS ARE DTA144W(UA) or UN511E or PDTA144W(U) or RN2309.
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN μ F.

ELECTROLYTIC #OPTION
 CERAMIC
 MYLER
 NON POLAR

4.5 MAIN (TUNER) SCHEMATIC DIAGRAM

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.

5
4
3
2
1



DIFFERENCE TABLE

○: Used
×: Not used

TUNER UNIT	EU, EUEA, EK	MS	US	KOREA	JAPAN
RF CONVERTER					
BB (RF 5V)	L6002, C6014	○	○	×	×
FRONT END					
RF AGC	R6080	○	○	×	×
AS	C6022	×	×	×	×
SCL	C6020	×	×	×	×
SDA	C6021	×	×	×	×
MB (SWV)	L6001	10μ	10μ	SHORT	SHORT
	C6007	×	×	×	×
	C6008	×	×	×	×
TU (30V)	L6005	10μ	10μ	SHORT	SHORT
	C6005	×	×	×	×
	C6006	×	×	×	×
IF					
SW1	R6080	○	○	×	×
	C6027	×	×	×	×
SW2	R6081	○	○	○	×
	C6028	×	×	×	×
AUDIO OUT	C6037	○	○	×	×
	B6034	×	×	○	○
	B6032	3.3k	18k	12k	×
	B6033	1.5k	18k	×	×
	C6032	○	×	×	×
AFT	B6001	○	○	○	×
VIDEO OUT	Q6030	○	○	○	○
	B6030	1k	1k	3.3k	3.3k
	B6030	×	×	×	×
AUDIO MUTE	Q6032	○	○	×	×
VIDEO MUTE	Q6031	○	○	×	×
	R6034	×	×	×	×
	C6033	0Ω	0Ω	×	×
	B6032	○	○	×	×
	B6033	×	×	×	×
DEMODO REG	R6051, R6052, D6551, C6551, C6552, C6554	×	×	○	×
	L6001	○	○	×	×
	C6553	○	○	×	×
	C6555	×	×	×	×
DEMODO OUT	R6008, R6010	0Ω	0Ω	0Ω	0Ω
	R6009, R6011	×	×	×	×
	C6019, C6020	×	×	×	×
	Q6001, Q6502	×	×	×	×
	B6010, B6011	×	×	×	×
DEMODO OPTION	R6053	○	○	0Ω	×
	B6052	×	×	×	×
	R6054	○	○	0Ω	0Ω
	B6054	×	×	×	×
DEMODO UNIT	C60701	LPA10094 -04*	LPA10094 -05*	PB11076A -*	LPA10094 -06*
SYNC DET	R6040-R6046, C6040-C6044, Q6040-Q6042, D6040, T6040	×	×	○	×

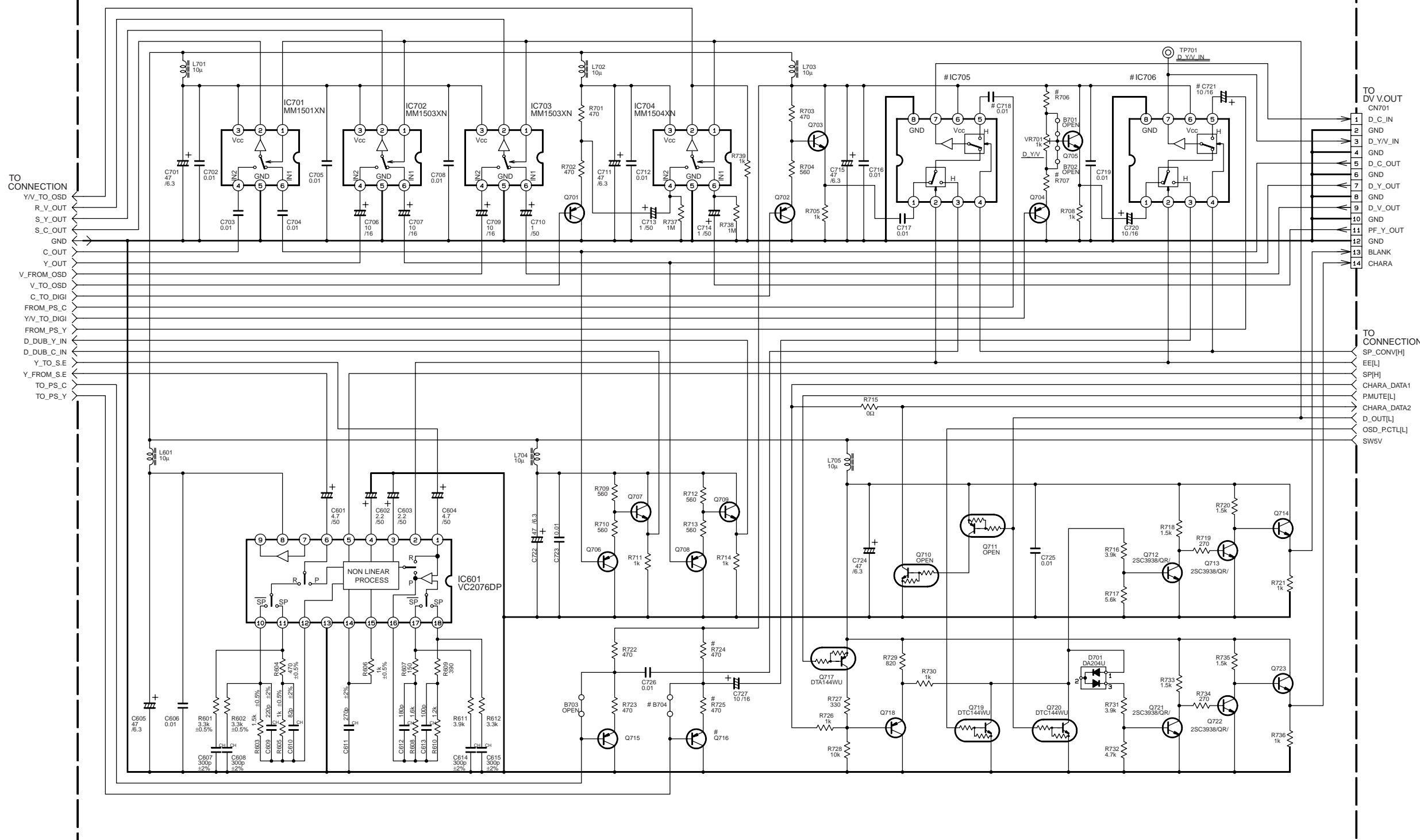
NOTES: UNLESS OTHERWISE SPECIFIED,
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

⊖ = ELECTROLYTIC
 = CERAMIC
 = MYLER
 = NON POLAR

4.6 MAIN (VIDEO I/O&SUB EMPHA) SCHEMATIC DIAGRAM

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.

03 MAIN(VIDEO I/O & SUB EMPHA)



DIFFERENCE TABLE

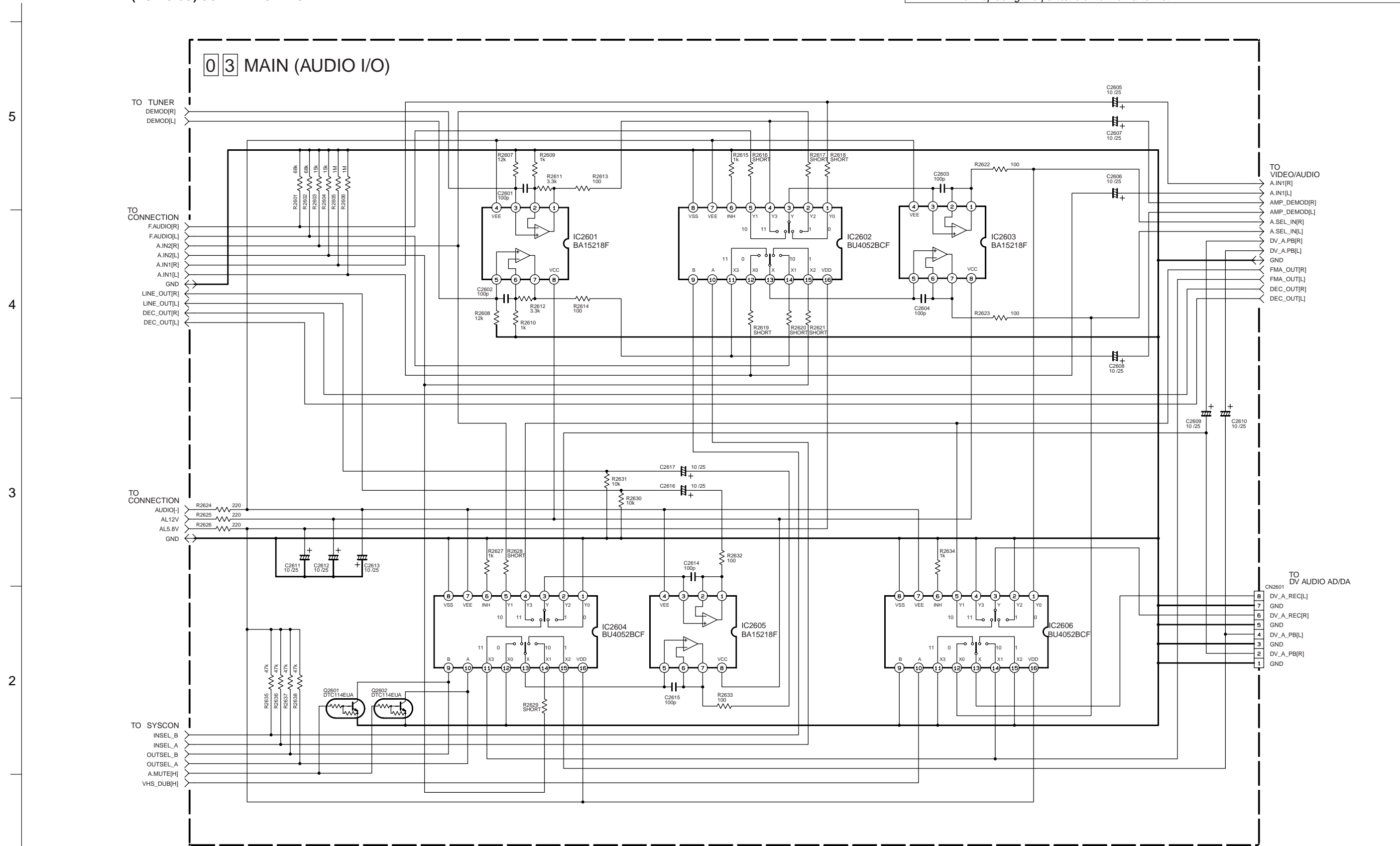
SYMBOL	IC705	IC706	Q716, C718, C721	B704	R706	R707
MODEL	MM1111XF	MM1115XF	NO	YES	680	330
PAL	MM1113XF	MM1118XF	YES	NO	180	680
MS	MM1113XF	MM1118XF	YES	NO	180	680
NTSC	MM1111XF	MM1115XF	NO	YES	680	330

NOTES: UNLESS OTHERWISE SPECIFIED.
 ALL NPN TYPE TRANSISTORS ARE 2SC4081/QRS/ or 2SD1819A/QRS/ or 2PC4081/R/.
 ALL PNP TYPE TRANSISTORS ARE 2SA1576A/QR/ or 2SA1576/R/.
 ALL NPN TYPE DIGITAL TRANSISTORS ARE DTC144WU/ or UN521E/ or PDT144WU/ or RN1309.
 ALL PNP TYPE DIGITAL TRANSISTORS ARE DTA144WUA/ or UN511E/ or PDTA144WU/ or RN2309.
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN μF.

- ELECTROLYTIC
- CERAMIC
- MYLER
- NON POLAR

4.7 MAIN (AUDIO I/O) SCHEMATIC DIAGRAM

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.

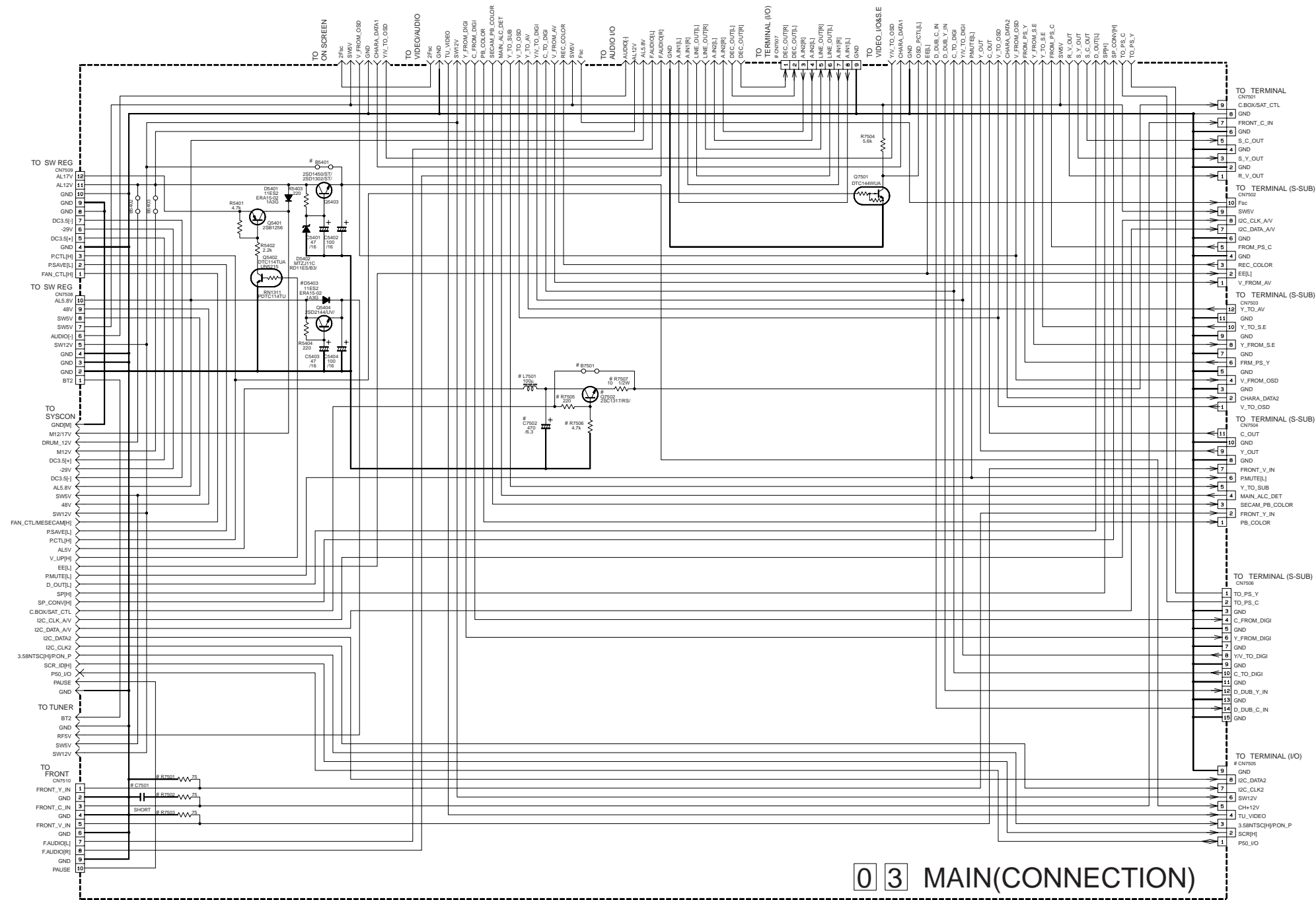


NOTES: UNLESS OTHERWISE SPECIFIED.
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN μ F.

ELECTROLYTIC
 CERAMIC
 MYLER
 NON POLAR

4.8 MAIN (CONNECTION) SCHEMATIC DIAGRAM

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.



DIFFERENCE TABLE

O: Used
X: Not used

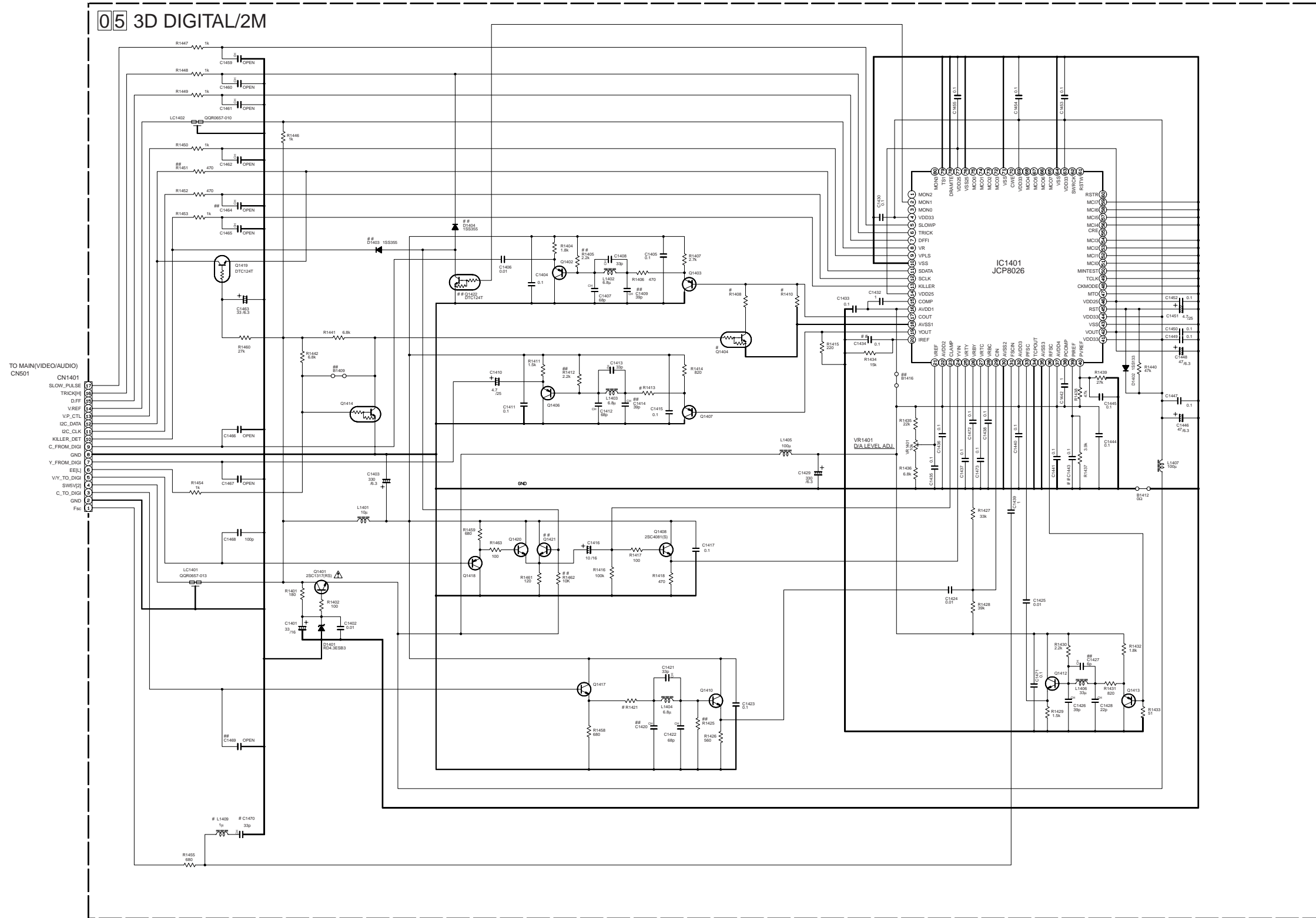
	ELI,ELIEA	EK	MS	U	DOM	KR
B5401	X	X	X	X	X	X
D5403	X	X	X	X	X	X
B7501	X	X	X	X	O	X
R7505	O	O	O	O	O	X
R7506	O	O	O	O	X	X
R7507	O	O	O	O	X	X
L7501	O	O	O	O	X	X
C7502	O	O	O	O	X	X
C7502	O	O	O	O	X	X
CN7507	(1-9)	(1-9)	(1-9)	(1-5)	(1-5)	(1-5)
CN7507	9	9	9	5	5	5
R7501	X	X	X	X	X	X
R7502	X	X	X	X	X	X
R7503	X	X	X	X	X	X
C7501	X	X	X	X	X	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

4.9 3D DIGITAL/2M SCHEMATIC DIAGRAM

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.



TO MAIN(VIDEO/AUDIO)
CN501

SLOW_PULSE
 TRICKOH
 D.F.F
 V.P.CTL
 IQC_DATA
 IQC_CLK
 KILLER_DET
 C_FROM_DIG
 GND
 Y_FROM_DIG
 EE1
 VV_TO_DIG
 SW5V12
 C_TO_DIG
 GND
 PE

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

MARK ELEMENTS ARE NOT MOUNTED.
 ALL SINGLE DIODE:1S133 OR 1N4148.
 ALL PNP TRANSISTOR:2SA1578A(QR) OR 2SB1218A(QR) OR 2PA1578(R)
 ALL NPN TRANSISTOR:2SC4081(QRS) OR 2SD1819A(QRS) OR 2PC4081(R)
 ALL NPN DIGITAL TRANSISTOR:DTC144WUA OR URS21E OR RN1309

Q Used
 # DIFFERENCE TABLE

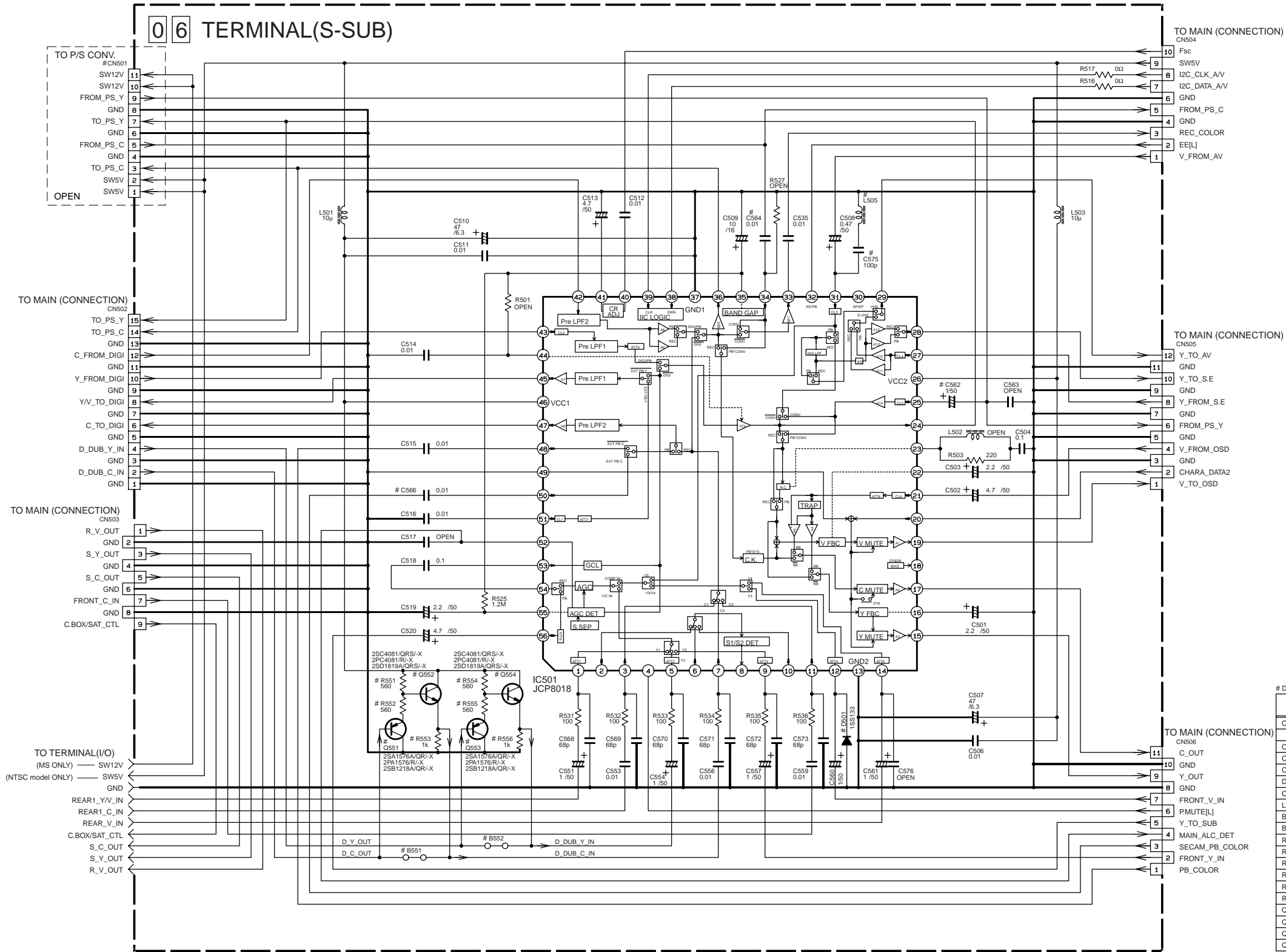
	Q1404	R1408	R1410	R1413	R1421	C1470	L1409
PHILAS	O	1.2k	300	330	300	33p	1u
NTSC	X	OPEN	240	470	330	OPEN	OPEN

5
4
3
2
1

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

4.10 TERMINAL (S-SUB) SCHEMATIC DIAGRAM

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.



DIFFERENCE TABLE

O: Used
X: Not used

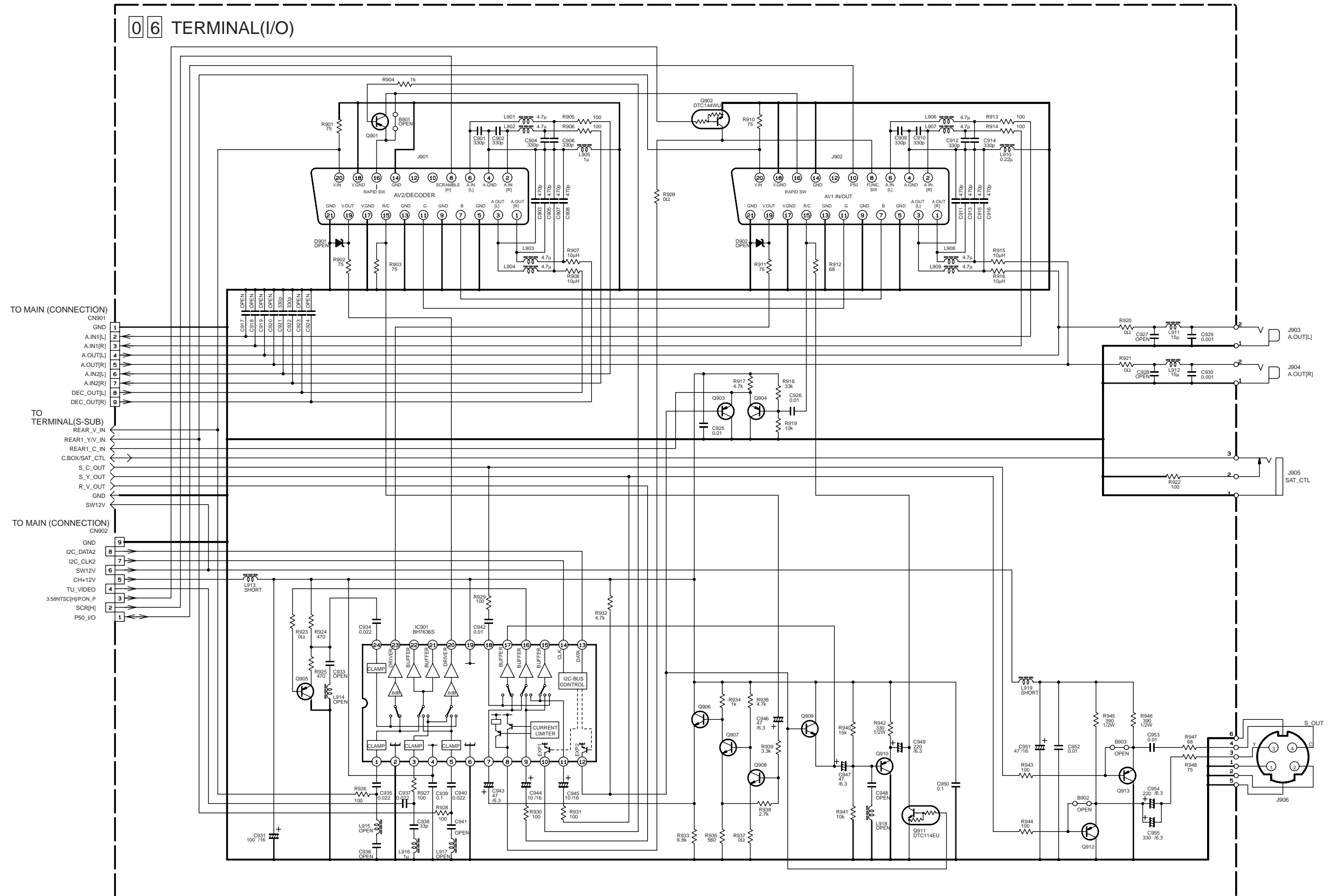
	EU/EU/EA	EK	MS	U	DOM	KR
CN501	X	X	O	X	X	X
C562	X	X	O	X	X	X
C564	X	X	O	X	X	X
C566	X	X	O	X	X	X
D501	X	X	X	X	X	X
GND	O	O	O	X	X	X
L505	SHORT	SHORT	SHORT	OPEN	OPEN	OPEN
B551	O	O	O	O	O	O
B552	O	O	O	O	O	O
R551	X	X	X	X	X	X
R552	X	X	X	X	X	X
R553	X	X	X	X	X	X
R554	X	X	X	X	X	X
R555	X	X	X	X	X	X
R556	X	X	X	X	X	X
Q551	X	X	X	X	X	X
Q552	X	X	X	X	X	X
Q553	X	X	X	X	X	X
Q554	X	X	X	X	X	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

4.11 TERMINAL (I/O) SCHEMATIC DIAGRAM

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.



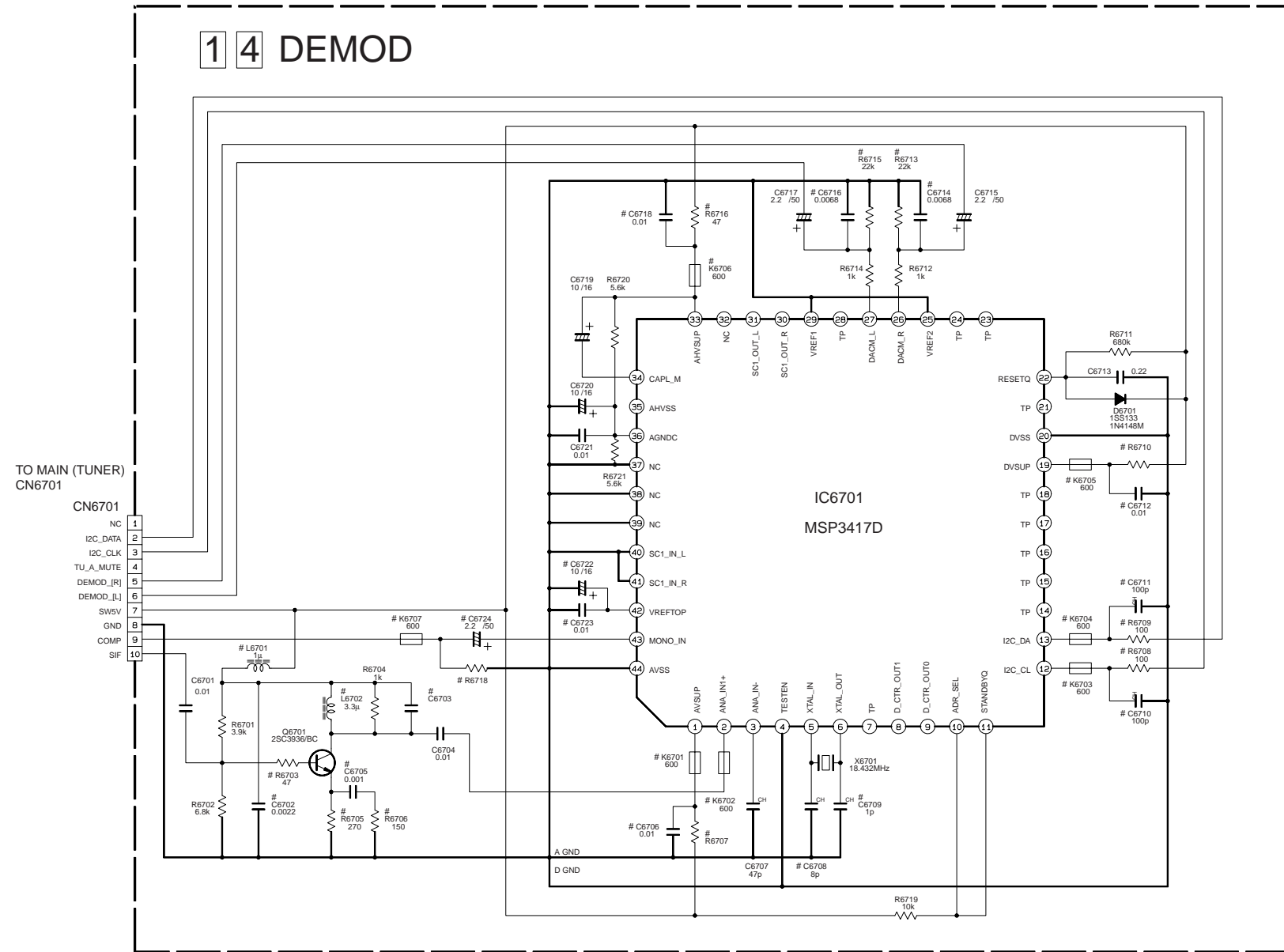
NOTES: UNLESS OTHERWISE SPECIFIED.
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN μF.

ALL NPN TYPE TRANSISTORS ARE 2SC4081/QRS/ or 2SD1819A/QRS/ or 2PC4081/R/.
 ALL PNP TYPE TRANSISTORS ARE 2SA1576A/Q/R/ or 2SB1218A/Q/R/ or 2PA1576/R/.

ELECTROLYTIC
 CERAMIC
 MYLER
 NON POLAR

4.12 DEMODULATOR SCHEMATIC DIAGRAM

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.



DIFFERENCE TABLE O : Used x : Not used

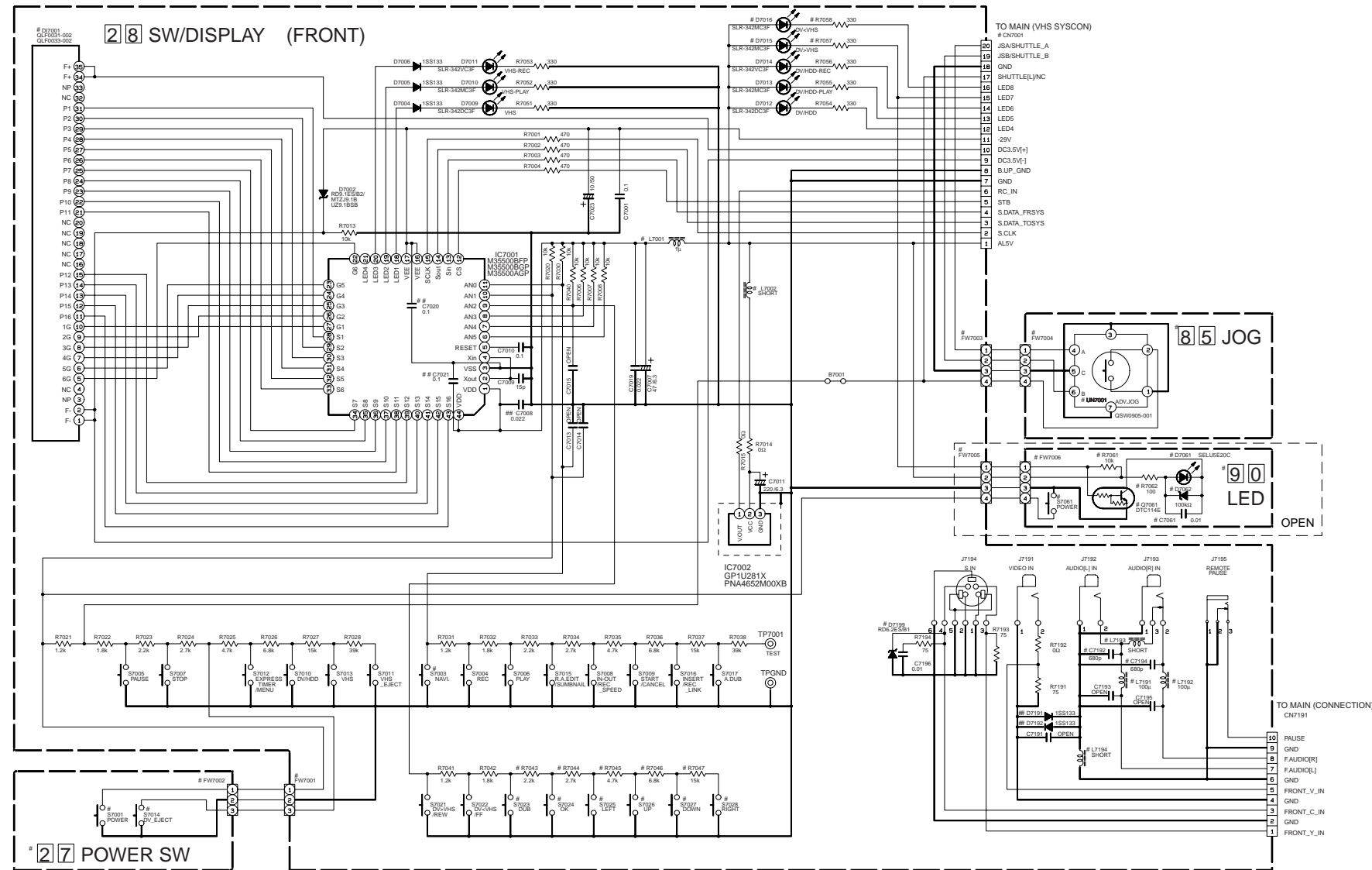
		V13			V14				
		FRANCE MS	EU/EK	ARC	EU, EU/EA, EK	FRANCE MS	KOREA	ARC 4SYSTEM	ARC 3SYSTEM
DEMOP FWB ASSY		LPA10094 -01*	LPA10094 -02*	LPA10094 -03*	LPA10094 -04*	LPA10094 -05*	LPA10094 -06*	LPA10094 -07*	LPA10094 -08*
PRE AMP	R6703	47	47	47	47	0	47	0	0
	R6705	270	270	100	270	270	270	270	270
	R6706	150	150	X	100	X	100	X	X
	C6702	0.0022	0.0022	0.0022	X	X	X	X	X
	C6703	X	X	220p	X	X	X	220p	180p
	C6705	0.001	0.001	X	0.001	X	0.001	X	X
L6701		1μ	1μ	1μ	SHORT	SHORT	SHORT	SHORT	SHORT
	L6702	3.3μ	3.3μ	3.3μ	3.3μ	X	3.3μ	3.3μ	3.3μ
MONO IN	K6707	FE 600	X	X	X	FE 600	X	X	X
	C6724	0.22/50	X	X	X	0.22/50	X	X	X
	R6718	X	X	X	X	X	X	X	X
I2C-BUS	R6708,R6709	100	100	100	FE 600	FE 600	FE 600	FE 600	FE 600
	K6703,K6704	FE 600	FE 600	FE 600	1K	1K	1K	1K	1K
	C6710,C6711	X	X	X	X	X	X	X	X
ANALOG Vcc	R6707	22	47	47	FE 600	FE 600	FE 600	FE 600	FE 600
	K6701	FE 600	FE 600	FE 600	33	33	33	33	33
DIGITAL Vcc	C6706	X	X	X	X	X	X	X	X
	R6710	10	12	12	FE 600	FE 600	FE 600	FE 600	FE 600
DAC Vcc	K6705	FE 600	FE 600	FE 600	10	10	10	10	10
	C6712	X	X	X	X	X	X	X	X
XTAL	C6708	8p	8p	8p	7p	7p	7p	7p	7p
	C6709	1p	1p	1p	3p	3p	3p	3p	3p
	R6713,R6715	X	X	X	X	X	X	X	X
VREF	C6714,C6716	0.0068	0.0068	0.0068	0.0022	0.0068	0.0022	0.0022	0.0022
	C6722	X	X	X	X	X	X	X	X
	C6723	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01

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

4.13 POWER SW, SW/DISPLAY AND JOG SCHEMATIC DIAGRAMS

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.



DIFFERENCE TABLE

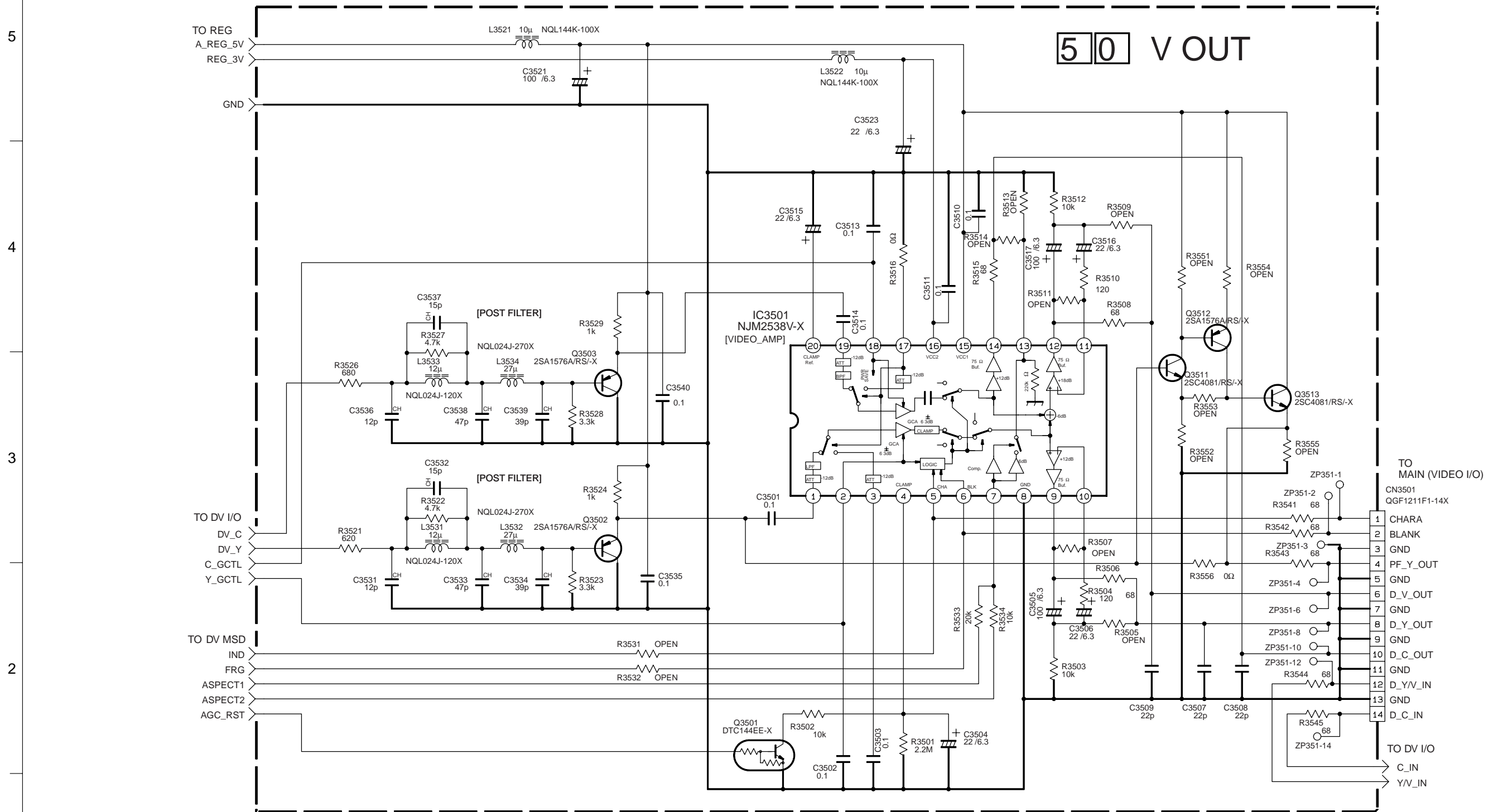
	[2] [7]	[8] [5]	S7003	R7043	S7025	CN7001	D7191	D7192	L7191	L7092	L7001
	S7001, S7014	S7061	S7024	R7044	S7016	D7192	D7193	L7194			L7002
	FW7001-FW7002	R7061-R7062	S7025	R7045	S7016	R7067	R7068	CT192			L7002
	UN7001	D7061, D7062	S7027	R7046	R7067	R7068		CT194			
	FW7003-FW7004	FW7005-FW7006	S7028	R7047	R7068						
DI-VHS	EU, EU18A		X	X	O	1-20	O	X	100ohm	100ohm	O
	ER		O	X	X	O	1-20	O	X	100ohm	O
	MS		O	X	X	O	1-20	O	X	100ohm	O
	U		O	X	X	O	1-20	O	X	100ohm	O
	DOM		O	X	X	O	1-20	O	X	100ohm	O
	KR		O	X	X	O	1-20	O	X	100ohm	O
HDD-VHS	EU		X	O	O	1-15	O	X	100ohm	100ohm	O
	ER		X	O	O	1-15	O	X	100ohm	100ohm	O
	MS		X	O	O	1-15	O	X	100ohm	100ohm	O
	U		X	O	O	1-15	O	X	100ohm	100ohm	O
	DOM		X	O	O	1-15	O	X	100ohm	100ohm	O
	KR		X	O	O	1-15	O	X	100ohm	100ohm	O

#NOT USED

NOTES: UNLESS OTHERWISE SPECIFIED:
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN #F.
 [Symbol] ELECTROLYTIC
 [Symbol] CERAMIC
 [Symbol] MYLER
 [Symbol] NON POLAR

4.17 DV V OUT SCHEMATIC DIAGRAM

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.

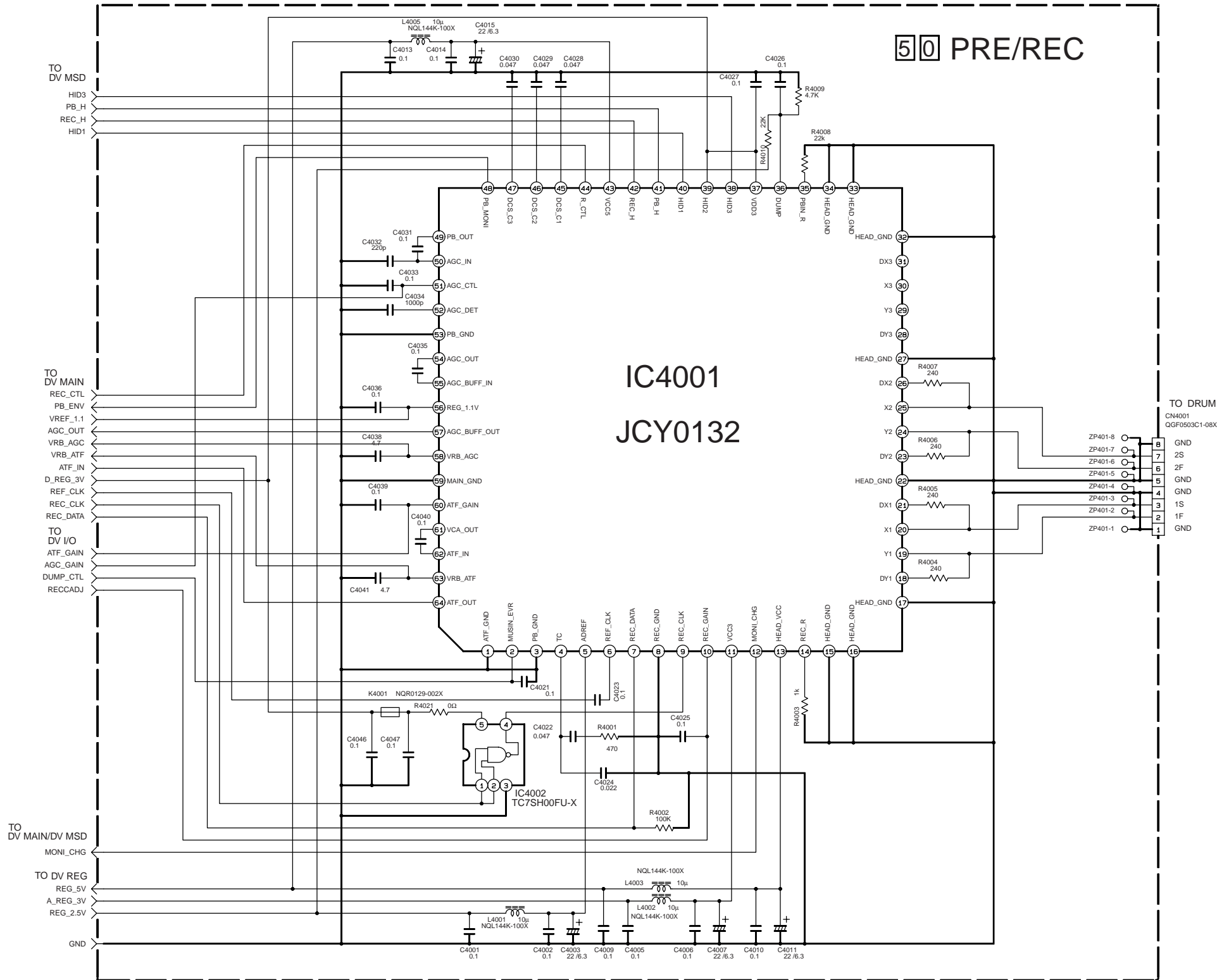


NOTES: UNLESS OTHERWISE SPECIFIED.
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
 CERAMIC
 MYLER
 NON POLAR

LAST NO	VACANT NO
R	
C	
D	
Q	
L	

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.



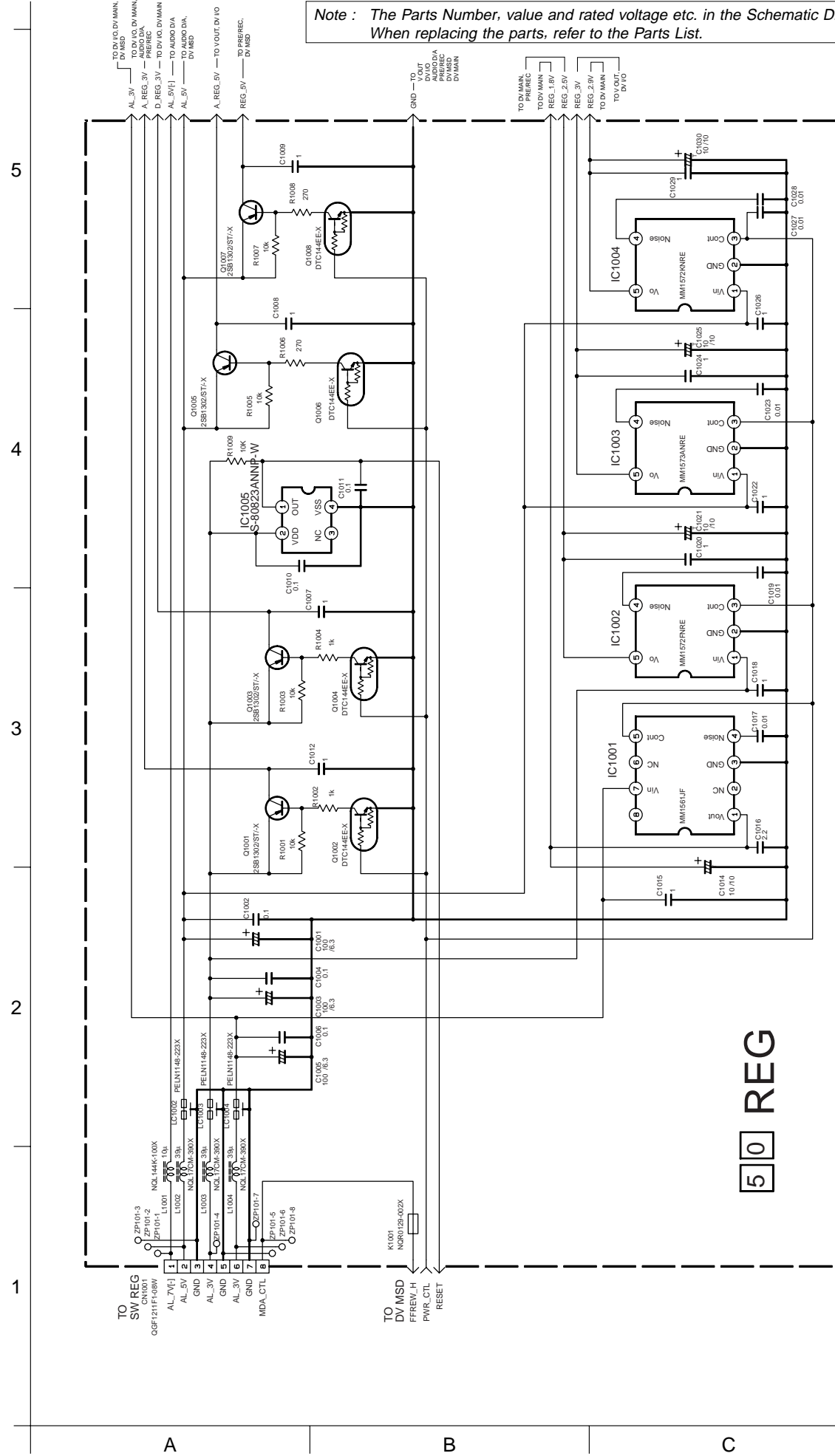
NOTES: UNLESS OTHERWISE SPECIFIED.
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN μ F.

ELECTROLYTIC
 CERAMIC
 MYLER
 NON POLAR

LAST NO	VACANT NO
R	
C	
D	
Q	
L	

4.19 DV REG SCHEMATIC DIAGRAM

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.

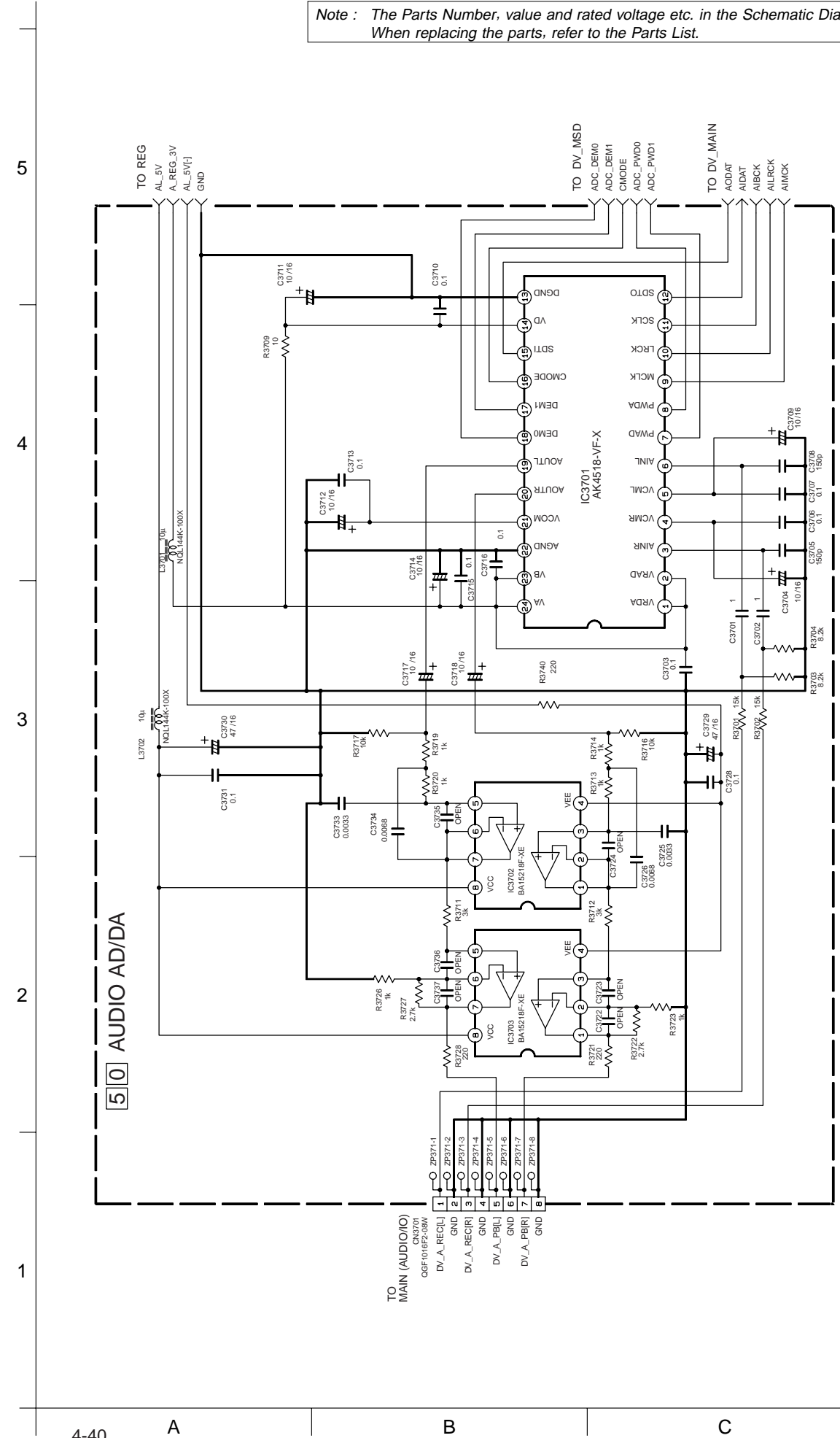


LASTNO	VACANTNO
R	
C	
D	
L	
Q	

NOTES: UNLESS OTHERWISE SPECIFIED.
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN μ F.
 + ELECTROLYTIC
 - CERAMIC
 MY MYLAR
 N NON POLAR

4.20 DV AUDIO AD/DA SCHEMATIC DIAGRAM

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.

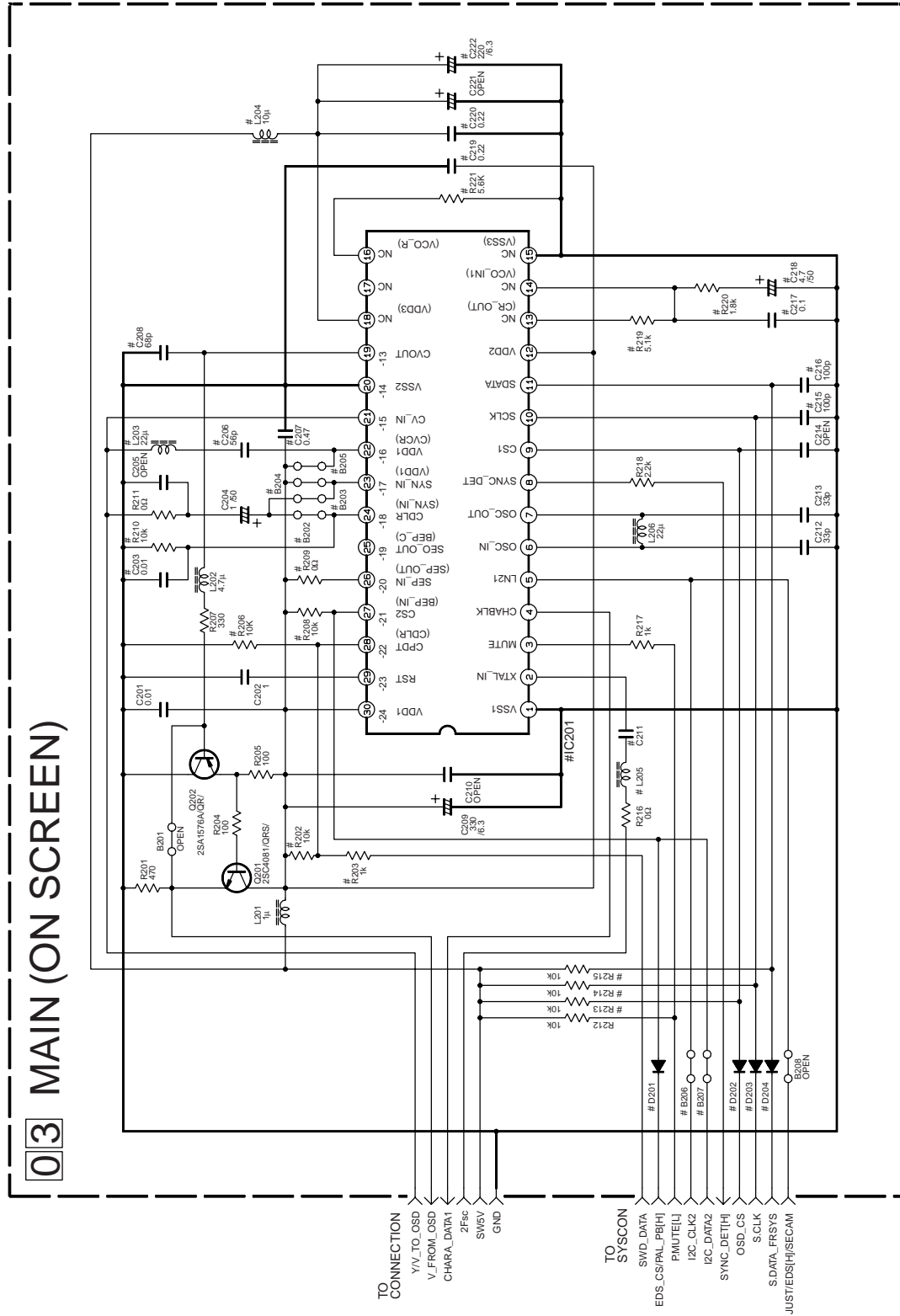


LASTNO	VACANTNO
R	
C	
D	
L	
Q	

NOTES: UNLESS OTHERWISE SPECIFIED.
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN μ F.
 + ELECTROLYTIC
 - CERAMIC
 MY MYLAR
 N NON POLAR

4.21 MAIN (ON SCREEN) SCHEMATIC DIAGRAM

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.



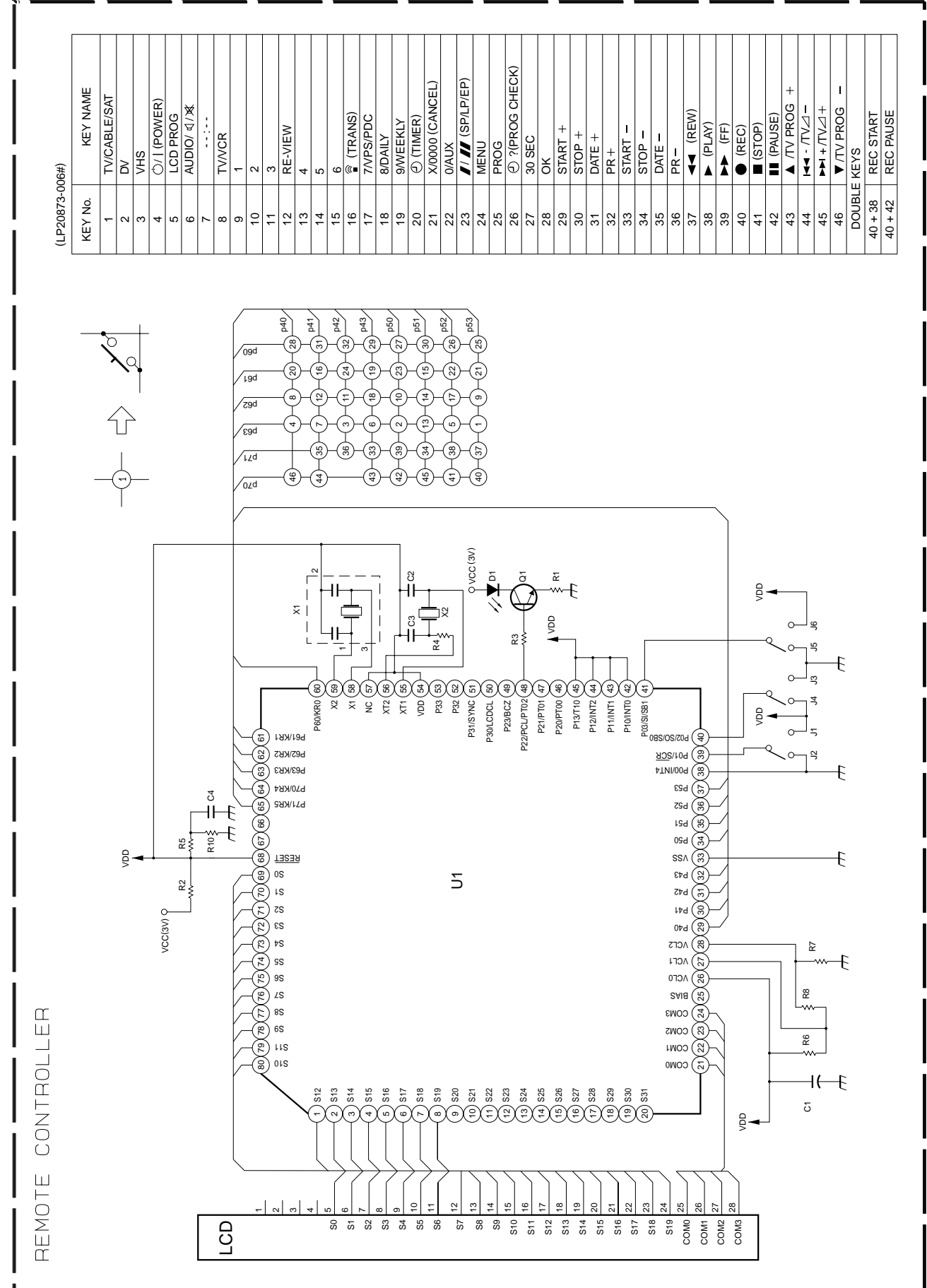
DIFFERENCE TABLE

IC201	R213	R214	R215	R216	R217	R218	R219	R220	R221	R222	R223	R224	R225	R226	R227	R228	R229	R230	R231	R232	R233	R234	R235	R236	R237	R238	R239	R240	R241	R242	R243	R244	R245	R246	R247	R248	R249	R250	R251	R252	R253	R254	R255	R256	R257	R258	R259	R260	R261	R262	R263	R264	R265	R266	R267	R268	R269	R270	R271	R272	R273	R274	R275	R276	R277	R278	R279	R280	R281	R282	R283	R284	R285	R286	R287	R288	R289	R290	R291	R292	R293	R294	R295	R296	R297	R298	R299	R300	R301	R302	R303	R304	R305	R306	R307	R308	R309	R310	R311	R312	R313	R314	R315	R316	R317	R318	R319	R320	R321	R322	R323	R324	R325	R326	R327	R328	R329	R330	R331	R332	R333	R334	R335	R336	R337	R338	R339	R340	R341	R342	R343	R344	R345	R346	R347	R348	R349	R350	R351	R352	R353	R354	R355	R356	R357	R358	R359	R360	R361	R362	R363	R364	R365	R366	R367	R368	R369	R370	R371	R372	R373	R374	R375	R376	R377	R378	R379	R380	R381	R382	R383	R384	R385	R386	R387	R388	R389	R390	R391	R392	R393	R394	R395	R396	R397	R398	R399	R400	R401	R402	R403	R404	R405	R406	R407	R408	R409	R410	R411	R412	R413	R414	R415	R416	R417	R418	R419	R420	R421	R422	R423	R424	R425	R426	R427	R428	R429	R430	R431	R432	R433	R434	R435	R436	R437	R438	R439	R440	R441	R442	R443	R444	R445	R446	R447	R448	R449	R450	R451	R452	R453	R454	R455	R456	R457	R458	R459	R460	R461	R462	R463	R464	R465	R466	R467	R468	R469	R470	R471	R472	R473	R474	R475	R476	R477	R478	R479	R480	R481	R482	R483	R484	R485	R486	R487	R488	R489	R490	R491	R492	R493	R494	R495	R496	R497	R498	R499	R500	R501	R502	R503	R504	R505	R506	R507	R508	R509	R510	R511	R512	R513	R514	R515	R516	R517	R518	R519	R520	R521	R522	R523	R524	R525	R526	R527	R528	R529	R530	R531	R532	R533	R534	R535	R536	R537	R538	R539	R540	R541	R542	R543	R544	R545	R546	R547	R548	R549	R550	R551	R552	R553	R554	R555	R556	R557	R558	R559	R560	R561	R562	R563	R564	R565	R566	R567	R568	R569	R570	R571	R572	R573	R574	R575	R576	R577	R578	R579	R580	R581	R582	R583	R584	R585	R586	R587	R588	R589	R590	R591	R592	R593	R594	R595	R596	R597	R598	R599	R600	R601	R602	R603	R604	R605	R606	R607	R608	R609	R610	R611	R612	R613	R614	R615	R616	R617	R618	R619	R620	R621	R622	R623	R624	R625	R626	R627	R628	R629	R630	R631	R632	R633	R634	R635	R636	R637	R638	R639	R640	R641	R642	R643	R644	R645	R646	R647	R648	R649	R650	R651	R652	R653	R654	R655	R656	R657	R658	R659	R660	R661	R662	R663	R664	R665	R666	R667	R668	R669	R670	R671	R672	R673	R674	R675	R676	R677	R678	R679	R680	R681	R682	R683	R684	R685	R686	R687	R688	R689	R690	R691	R692	R693	R694	R695	R696	R697	R698	R699	R700	R701	R702	R703	R704	R705	R706	R707	R708	R709	R710	R711	R712	R713	R714	R715	R716	R717	R718	R719	R720	R721	R722	R723	R724	R725	R726	R727	R728	R729	R730	R731	R732	R733	R734	R735	R736	R737	R738	R739	R740	R741	R742	R743	R744	R745	R746	R747	R748	R749	R750	R751	R752	R753	R754	R755	R756	R757	R758	R759	R760	R761	R762	R763	R764	R765	R766	R767	R768	R769	R770	R771	R772	R773	R774	R775	R776	R777	R778	R779	R780	R781	R782	R783	R784	R785	R786	R787	R788	R789	R790	R791	R792	R793	R794	R795	R796	R797	R798	R799	R800	R801	R802	R803	R804	R805	R806	R807	R808	R809	R810	R811	R812	R813	R814	R815	R816	R817	R818	R819	R820	R821	R822	R823	R824	R825	R826	R827	R828	R829	R830	R831	R832	R833	R834	R835	R836	R837	R838	R839	R840	R841	R842	R843	R844	R845	R846	R847	R848	R849	R850	R851	R852	R853	R854	R855	R856	R857	R858	R859	R860	R861	R862	R863	R864	R865	R866	R867	R868	R869	R870	R871	R872	R873	R874	R875	R876	R877	R878	R879	R880	R881	R882	R883	R884	R885	R886	R887	R888	R889	R890	R891	R892	R893	R894	R895	R896	R897	R898	R899	R900	R901	R902	R903	R904	R905	R906	R907	R908	R909	R910	R911	R912	R913	R914	R915	R916	R917	R918	R919	R920	R921	R922	R923	R924	R925	R926	R927	R928	R929	R930	R931	R932	R933	R934	R935	R936	R937	R938	R939	R940	R941	R942	R943	R944	R945	R946	R947	R948	R949	R950	R951	R952	R953	R954	R955	R956	R957	R958	R959	R960	R961	R962	R963	R964	R965	R966	R967	R968	R969	R970	R971	R972	R973	R974	R975	R976	R977	R978	R979	R980	R981	R982	R983	R984	R985	R986	R987	R988	R989	R990	R991	R992	R993	R994	R995	R996	R997	R998	R999	R1000
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NOTES: UNLESS OTHERWISE SPECIFIED, ALL RESISTANCE VALUES ARE IN OHMS. ALL INDUCTANCE VALUES ARE IN H. ALL CAPACITANCE VALUES ARE IN #F. ELECTROLYTIC CERAMIC MY MYLER NON POLAR

4.22 REMOTE CONTROLLER SCHEMATIC DIAGRAM

NOTES:
1. All parts shown in this schematic are critical for safety.
2. This schematic is only for reference. Avoid replacing individual parts. Replace the entire unit only.



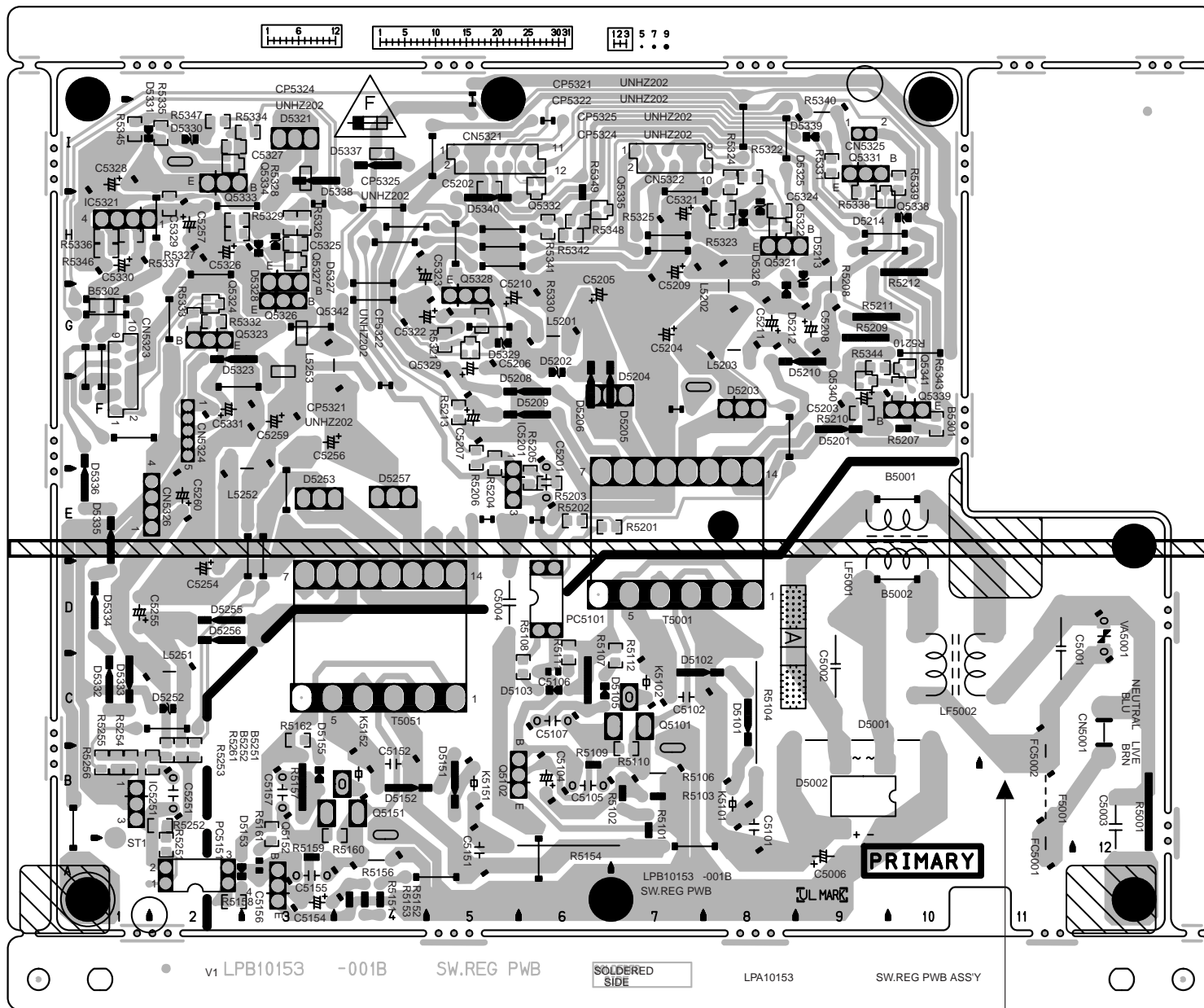
(LP20873-006#)

KEY No.	KEY NAME
1	TV/CABLE/SAT
2	DV
3	VHS
4	⏻ (POWER)
5	LCD PROG
6	AUDIO/⏻/⏻
7	...
8	TV/VCR
9	1
10	2
11	3
12	RE-VIEW
13	4
14	5
15	6
16	(TRANS)
17	TV/PS/PC
18	8/DAILY
19	9/WEEKLY
20	(TIMER)
21	X/0000 (CANCEL)
22	0/AUX
23	/// (SPL/PIEP)
24	MENU
25	PROG
26	? (PROG CHECK)
27	30 SEC
28	OK
29	START +
30	STOP +
31	DATE +
32	PR +
33	START -
34	STOP -
35	DATE -
36	PR -
37	◀ (REW)
38	▶ (PLAY)
39	▶▶ (FF)
40	● (REC)
41	■ (STOP)
42	■ (PAUSE)
43	▲ /TV PROG +
44	▼ /TV PROG -
45	▶▶ /TV Δ +
46	▶▶ /TV PROG -
DOUBLE KEYS	
40 + 38	REC START
40 + 42	REC PAUSE

4.23 SWITCHING REGULATOR CIRCUIT BOARD

COMPONENT PARTS LOCATION GUIDE <SW.REG> LPB10153-001B

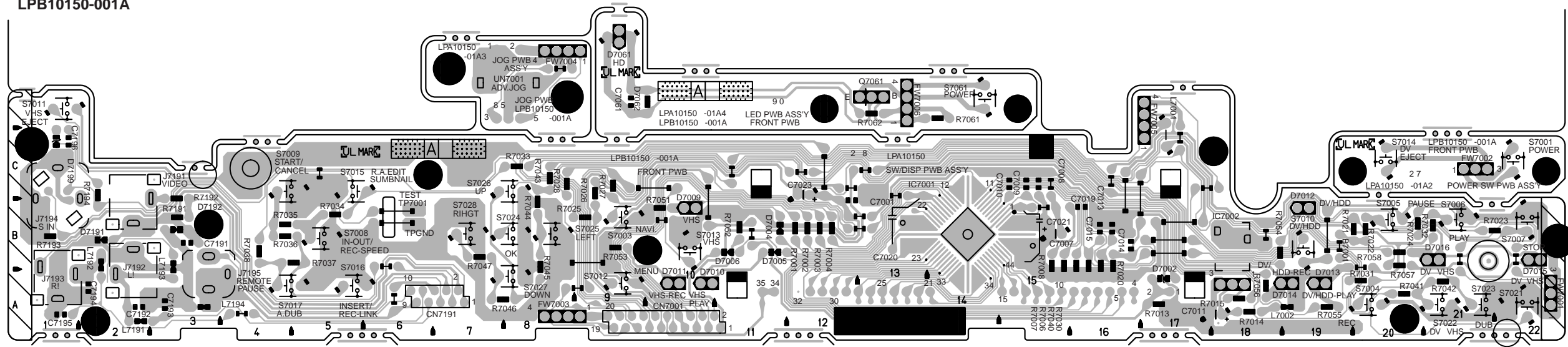
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LPB10153-001B



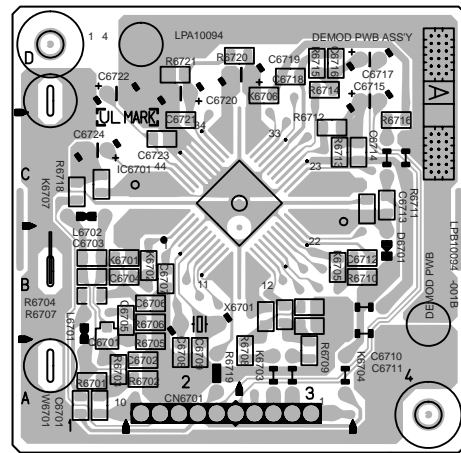
DANGEROUS VOLTAGE

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPASITOR					
C5001	A D 11C	L5201	A D 6G	T5001	A D 8D
C5002	A D 9D	L5202	A D 8G	T5051	A D 5C
C5003	A D 12B	L5203	A D 8G	VA5001	A D 12D
C5004	A D 5D	L5251	A D 2C		
C5006	A D 9A	L5252	A D 2F		
C5101	A D 8A	L5253	A D 4F		
C5102	A D 7C				
C5104	A D 6B	LF5001	A D 10D		
C5105	A D 6B	LF5002	A D 10C		
C5106	A D 6C	PC5101	A D 6D		
C5107	A D 6C	PC5151	A D 2A		
C5151	A D 5A				
C5152	A D 4B	TRANSISTOR			
C5154	A D 3A	Q5101	A D 7C		
C5155	A D 3A	Q5102	A D 6B		
C5156	A D 3A	Q5151	A D 4B		
C5157	A D 3B	Q5152	A D 3A		
C5201	A D 6E	Q5321	A D 8H		
C5202	B C 5I	Q5322	B C 8H		
C5203	A D 9F	Q5323	A D 2G		
C5204	A D 7G	Q5324	B C 2G		
C5205	A D 6G	Q5326	A D 3G		
C5206	A D 5G	Q5327	B C 3H		
C5207	A D 5F	Q5328	A D 5G		
C5208	A D 9G	Q5329	B C 5G		
C5209	A D 7H	Q5331	A D 9I		
C5210	A D 5G	Q5332	B C 6I		
C5211	A D 8G	Q5333	A D 2I		
C5251	A D 2B	Q5334	B C 2I		
C5254	A D 2D	Q5335	B C 6H		
C5255	A D 1D	Q5338	B C 9H		
C5256	A D 4F	Q5339	A D 10F		
C5257	A D 2H	Q5340	B C 9F		
C5259	A D 3F	Q5341	B C 10G		
C5260	A D 2E	Q5342	A D 3H		
C5321	A D 7H				
C5322	A D 5G	RESISTOR			
C5323	A D 4H	R5001	A D 12B		
C5324	B C 8H	R5101	A D 7A		
C5325	B C 3H	R5102	A D 7B		
C5326	A D 3H	R5103	A D 7B		
C5327	B C 2I	R5104	A D 8D		
C5328	A D 1I	R5106	A D 7B		
C5329	B C 2H	R5107	A D 6C		
C5330	A D 1H	R5108	B C 6C		
C5331	A D 2F	R5109	A D 6B		
		R5110	B C 7B		
		R5111	B C 6D		
		R5112	B C 7C		
		R5151	A D 4A		
		R5152	A D 4A		
		R5153	A D 4A		
		R5154	A D 7A		
		R5156	A D 4A		
		R5157	A D 3B		
		R5158	B C 2A		
		R5159	A D 3A		
		R5160	B C 4B		
		R5161	B C 3B		
		R5162	B C 3C		
		R5201	B C 6E		
		R5202	B C 6E		
		R5203	B C 6E		
		R5204	B C 5F		
		R5205	B C 6E		
		R5206	B C 5F		
		R5207	A D 10F		
		R5208	A D 9G		
		R5209	A D 9G		
		R5210	B C 9F		
		R5211	A D 9G		
		R5212	A D 10H		
		R5213	B C 5F		
		R5251	B C 2A		
		R5252	B C 2B		
		R5253	B C 2B		
		R5254	B C 1B		
		R5255	B C 1B		
		R5256	B C 1B		
		R5261	B C 2B		
		R5321	B C 5G		
		R5322	B C 8I		
		R5323	B C 8H		
		R5324	B C 8I		
		R5325	B C 8H		
		R5326	B C 3H		
		R5327	B C 2H		
		R5328	B C 3H		
		R5329	B C 2H		
		R5330	B C 5G		
		R5331	B C 9I		
		R5332	B C 2G		
		R5333	B C 2G		
		R5334	B C 3I		
		R5335	B C 2I		
		R5336	B C 1H		
		R5337	B C 1H		
		R5338	B C 9H		
		R5339	B C 10I		
		R5340	A D 9I		
		R5341	B C 6H		
		R5342	B C 6H		
		R5343	B C 10F		
		R5344	B C 9G		
		R5345	B C 1I		
		R5346	B C 1H		
		R5347	B C 2I		
		R5348	B C 6H		
		R5349	A D 6H		
		FUSE			
F5001	A D 11A				
		OTHER			
IC5201	A D 5E	FC5001	A D 11A		
IC5251	A D 1B	FC5002	A D 11C		
IC5321	A D 1H	K5101	A D 8B		
		K5102	A D 7C		
		K5151	A D 5B		
		K5152	A D 4B		

<27> POWER SW, <28> SW/DISPLAY, <85> JOG
LPB10150-001A



<14> DEMODULATOR
LPB10094-001C



COMPONENT PARTS LOCATION GUIDE
<DEMOMULATOR>

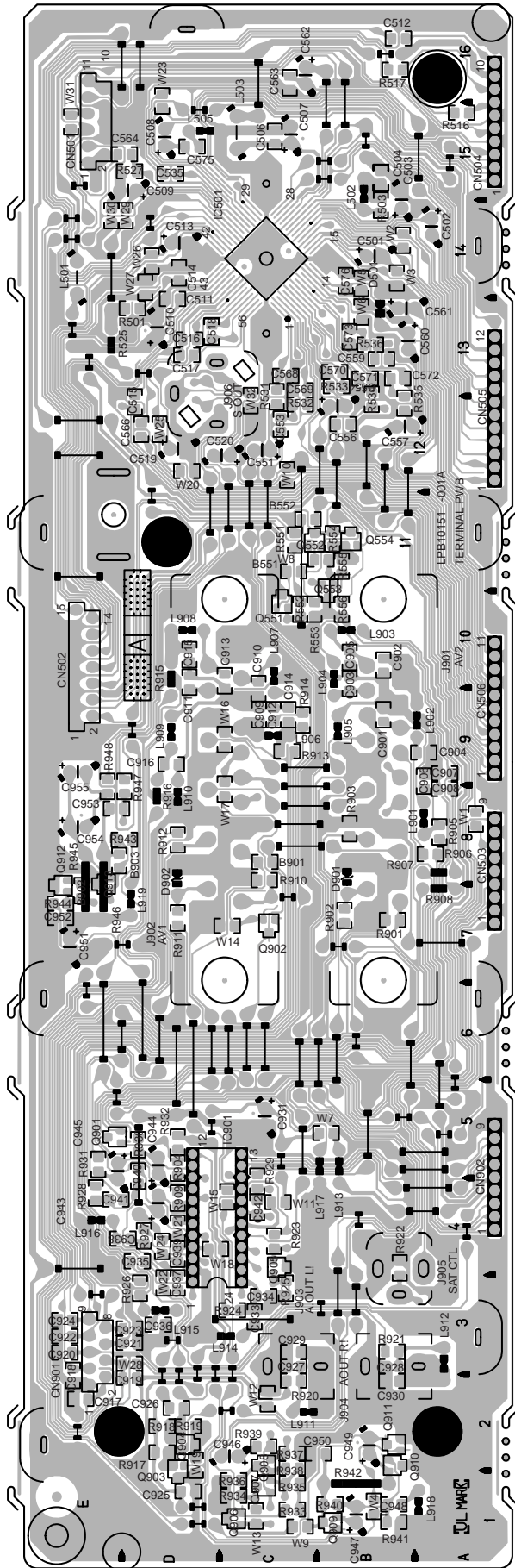
REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR					
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C1502	A D 3D	C1521	A D 2C	R1510	A D 4B
C1503	A D 4D	CONNECTOR			
C1504	A D 4C	CN1501	A D 3A	R1511	A D 3A
C1505	A D 3D			R1514	A D 2B
C1506	A D 3C	IC			
C1507	A D 2C	IC1501	B C 2C	R1515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

COMPONENT PARTS LOCATION GUIDE

<TERMINAL> LPB10151-001A

4.27 TERMINAL CIRCUIT BOARD

<06> TERMINAL LPB10151-001A



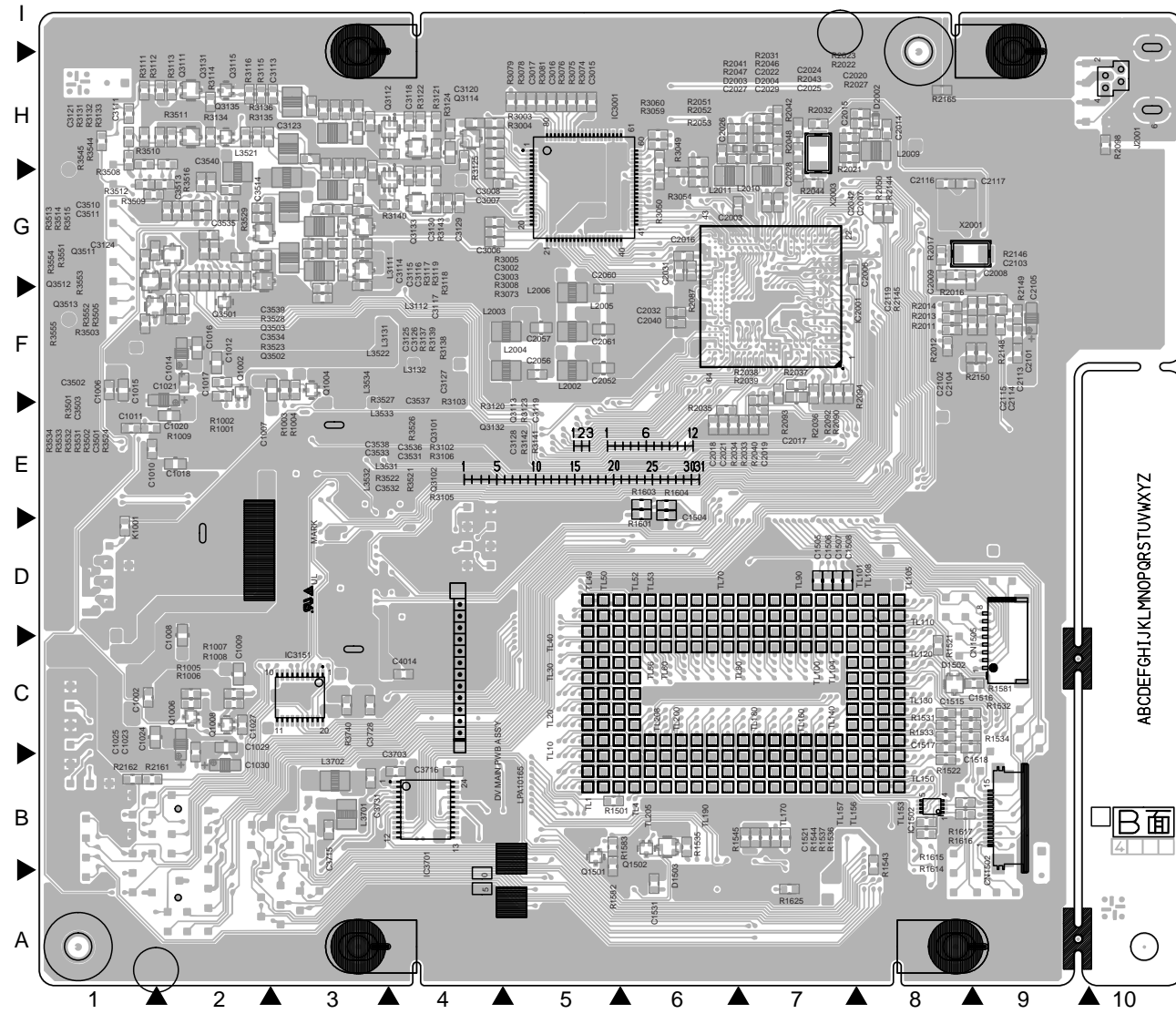
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C506	B C 15C	L903	A D 10B
C507	A D 15C	L904	A D 9B
C508	A D 15D	L905	A D 9B
C509	A D 15D	L906	A D 9C
C510	A D 13D	L907	A D 10C
C511	B C 13D	L908	A D 10D
C512	B C 16B	L909	A D 9D
C513	A D 14D	L910	A D 9C
C514	B C 14D	L911	A D 2C
C515	B C 12D	L912	A D 3A
C516	B C 13D	L913	A D 4B
C517	B C 13D	L914	A D 3D
C518	B C 13D	L915	A D 3D
C519	A D 12D	L916	A D 4E
C520	A D 12C	L917	A D 5B
C535	B C 15D	L918	A D 8A
C551	A D 12C	L919	A D 8D
C553	B C 12C	TRANSISTOR	
C554	A D 12B	Q551	B C 10C
C556	B C 12B	Q552	B C 11C
C557	A D 12B	Q553	B C 11B
C559	B C 13B	Q554	B C 11B
C560	A D 13B	Q901	B C 5E
C561	A D 13B	Q902	B C 7C
C562	A D 16C	Q903	B C 1D
C563	B C 16C	Q904	B C 2D
C564	B C 15D	Q905	B C 4C
C566	B C 12D	Q906	B C 1C
C568	B C 13C	Q907	B C 1C
C569	B C 13C	Q908	B C 2C
C570	B C 13B	Q909	B C 1B
C571	B C 13B	Q910	B C 2B
C572	B C 13B	Q911	B C 2E
C573	B C 13B	Q912	B C 7E
C575	B C 15D	Q913	B C 8E
C576	B C 14B	RESISTOR	
C901	B C 9B	R501	B C 13D
C902	B C 10B	R503	B C 14B
C903	B C 10B	R516	B C 15A
C904	B C 9A	R517	B C 16B
C905	B C 10B	R525	A D 13E
C906	B C 9A	R527	B C 15D
C907	B C 9A	R531	B C 12C
C908	B C 8A	R532	B C 12C
C909	B C 9C	R533	B C 13B
C910	B C 10C	R535	B C 12B
C911	B C 10D	R536	B C 13B
C912	B C 9C	R551	B C 11C
C913	B C 10C	R552	B C 10C
C914	B C 9C	R553	B C 10C
C915	B C 10D	R554	B C 11B
C916	B C 9D	R555	B C 11B
C917	B C 2E	R901	B C 7B
C918	B C 2E	R902	B C 7B
C919	B C 2D	R903	B C 8B
C920	B C 3E	R904	B C 5D
C921	B C 3D	R905	B C 8A
C922	B C 3E	R906	B C 8A
C923	B C 3D	R907	A D 8A
C924	B C 3E	R908	A D 7A
C925	B C 1D	R909	B C 4D
C926	B C 2D	R910	B C 8C
C927	B C 3C	R911	B C 7D
C928	B C 3B	R912	B C 8D
C929	B C 3C	R913	B C 9C
C930	B C 2B	R914	B C 9C
C931	A D 5C	R915	A D 10D
C933	B C 3C	R916	A D 8D
C934	B C 3C	R917	B C 2D
C935	B C 4D	R918	B C 2D
C936	B C 3D	R919	B C 2D
C937	B C 3D	R920	B C 2C
C938	B C 4D	R921	B C 3B
C939	B C 4D	R922	B C 4B
C940	B C 5D	R923	B C 4C
C941	B C 4E	R924	B C 3C
C942	B C 4C	R925	B C 3C
C943	A D 4D	R926	B C 4D
C944	A D 5D	R927	B C 3D
C945	A D 5E	R928	B C 4E
C946	A D 2C	R929	B C 4C
C947	A D 1B	R930	B C 5D
C948	B C 1B	R931	B C 5E
C949	A D 2B	R932	B C 5D
C950	B C 2B	R933	B C 1C
C951	A D 7E	R934	B C 1C
C952	B C 7E	R935	B C 1C
C953	B C 8E	R936	B C 1C
C954	A D 8E	R937	B C 2C
C955	A D 9E	R938	B C 2C
CONNECTOR			
CN501	A D 15E	R939	B C 2C
CN502	A D 9E	R940	B C 1B
CN503	A D 7A	R941	B C 1B
CN504	A D 15A	R942	A D 1B
CN505	A D 12A	R943	B C 8D
CN506	A D 9A	R944	B C 7E
CN901	A D 2E	R945	A D 7E
CN902	A D 4A	R946	A D 7E
DIODE			
D501	A D 14B	R947	B C 9D
D901	A D 8B	R948	B C 9E
D902	A D 8D	OTHER	
IC			
IC501	B C 14C	J901	A D 8B
IC901	A D 3D	J902	A D 8C
COIL			
L501	A D 14E	J903	A D 3B
L502	A D 14B	J904	A D 3B
		J905	A D 4B
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COMPONENT PARTS LOCATION GUIDE <DV MAIN> LPB10165-001B

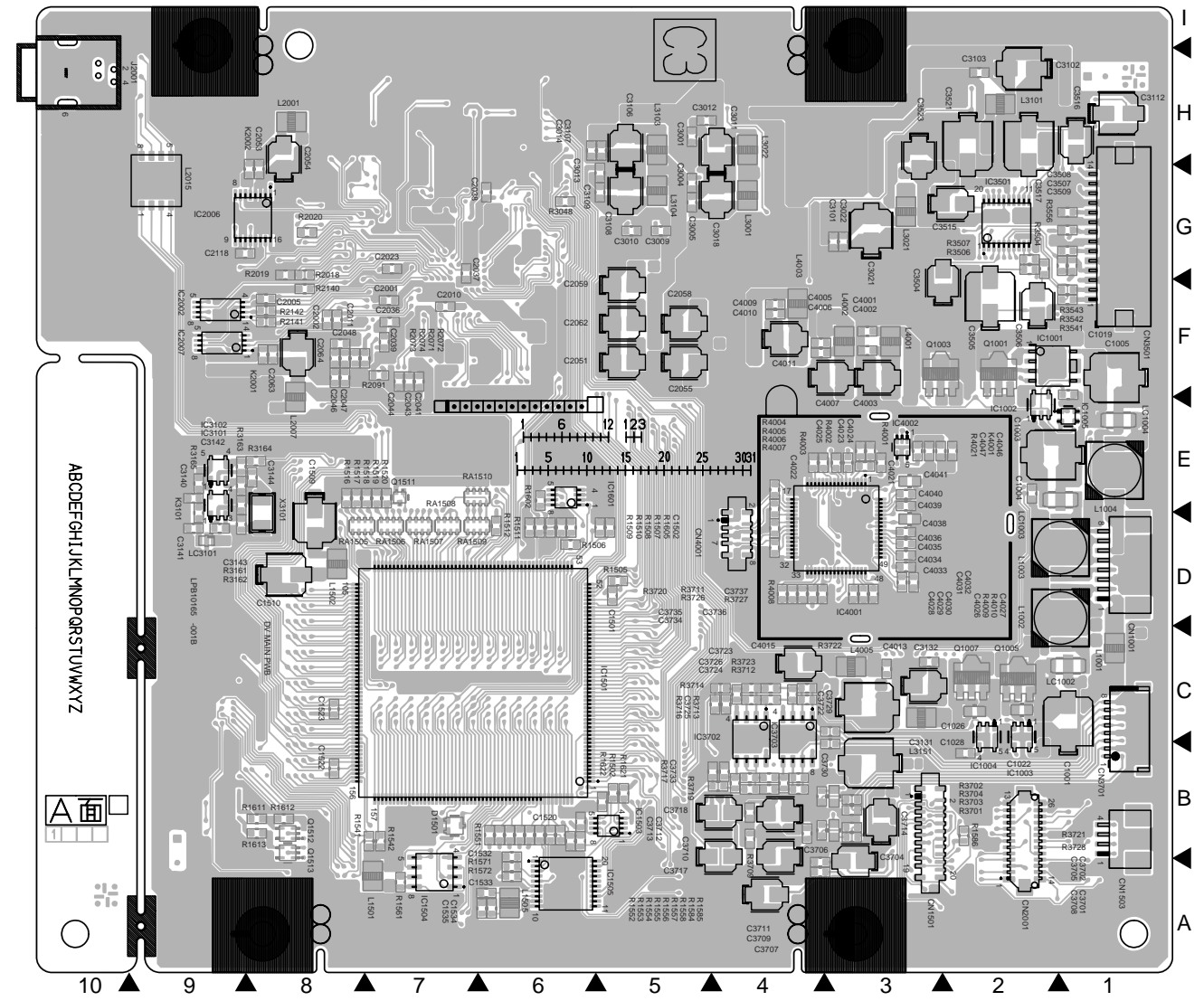
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C1002	B C 1C	C3002	B C 4H	C4009	A C 4F	Q1001	A C 2F	R2034	B C 6E	R3529	B C 2G				
C1003	A C 2E	C3003	B C 4H	C4010	A C 4F	Q1002	B C 2F	R2035	B C 6E	R3531	B C 2G				
C1004	A C 2E	C3004	A C 5G	C4011	A C 4F	Q1003	A C 3F	R2036	B C 7F	R3532	B C 2G				
C1005	A C 1F	C3005	A C 5G	C4013	A C 3C	Q1004	B C 3F	R2037	B C 7F	R3533	B C 2G				
C1006	B C 1F	C3006	B C 4G	C4014	B C 4C	Q1005	A C 2C	R2038	B C 7E	R3534	B C 2G				
C1007	B C 2F	C3007	B C 4G	C4015	A C 4C	Q1006	B C 2C	R2039	B C 7E	R3541	A C 1F				
C1008	B C 2D	C3008	B C 4G	C4021	A C 3E	Q1007	A C 2C	R2040	B C 7E	R3542	A C 1F				
C1009	B C 2C	C3009	A C 5G	C4022	A C 3E	Q1008	B C 2C	R2041	B C 7H	R3543	A C 1G				
C1010	B C 1E	C3010	A C 5G	C4023	A C 3E	Q1501	B C 5B	R2042	B C 7H	R3544	B C 1H				
C1011	B C 1E	C3011	A C 4H	C4024	A C 3E	Q1502	B C 6B	R2043	B C 7H	R3545	B C 1H				
C1012	B C 1E	C3012	A C 5H	C4025	A C 4E	Q1511	A C 7E	R2044	B C 7G	R3551	B C 1G				
C1014	B C 2F	C3013	A C 5G	C4026	A C 4D	Q1512	A C 8B	R2046	B C 7H	R3552	B C 1G				
C1015	B C 2F	C3014	A C 6H	C4027	A C 4D	Q1513	A C 8B	R2047	B C 6H	R3553	B C 2G				
C1016	B C 2F	C3015	B C 5H	C4028	A C 4D	Q3101	B C 3G	R2048	B C 7H	R3554	B C 1G				
C1017	B C 2F	C3016	B C 5H	C4029	A C 3D	Q3102	B C 3G	R2050	B C 8G	R3555	B C 1F				
C1018	B C 2E	C3017	B C 5H	C4030	A C 3D	Q3111	B C 2H	R2051	B C 8G	R3556	A C 1G				
C1019	A C 1E	C3018	A C 4G	C4031	A C 3D	Q3112	B C 4H	R2052	B C 6G	R3701	A C 3B				
C1020	B C 2E	C3021	A C 3G	C4032	A C 3D	Q3113	B C 4H	R2053	B C 6G	R3702	A C 3B				
C1021	B C 2F	C3022	A C 3G	C4033	A C 3D	Q3114	B C 4H	R2071	A C 8F	R3703	A C 3B				
C1022	A C 2C	C3101	A C 3G	C4034	A C 3D	Q3115	B C 2H	R2072	A C 8F	R3704	A C 3B				
C1023	A C 2C	C3102	A C 2H	C4035	A C 3D	Q3131	B C 2H	R2073	A C 8F	R3709	A C 4B				
C1024	B C 1C	C3103	A C 2H	C4036	A C 3D	Q3132	B C 4G	R2074	A C 8F	R3711	A C 4B				
C1025	B C 2C	C3106	A C 5H	C4038	A C 3D	Q3133	B C 4G	R2087	B C 6G	R3712	A C 4C				
C1026	A C 2C	C3107	A C 5H	C4039	A C 3E	Q3135	B C 2H	R2090	A C 7F	R3713	A C 4C				
C1027	B C 2C	C3108	A C 5G	C4040	A C 3E	Q3501	B C 2F	R2091	A C 7F	R3714	A C 4C				
C1028	A C 2B	C3109	A C 5G	C4041	A C 3E	Q3502	B C 2G	R2092	B C 7F	R3716	A C 4C				
C1029	B C 2C	C3111	B C 1H	C4046	A C 2E	Q3503	B C 2G	R2093	B C 7F	R3717	A C 4B				
C1030	B C 2C	C3112	A C 1H	C4047	A C 3E	Q3511	B C 2G	R2094	B C 7F	R3719	A C 4B				
C1501	A C 5D	C3113	B C 3H	CONNECTOR						R2098	B C 10H	R3720	A C 4B		
C1502	A C 5D	C3114	B C 3H	CN1001	A C 1D	Q3512	B C 1G	R2140	A C 8F	R3721	A C 3C				
C1504	B C 6E	C3115	B C 3H	CN1501	A C 3B	RESISTOR						R2141	A C 8F	R3722	A C 4C
C1505	B C 7D	C3116	B C 3H	CN1502	A C 9B	R1001	B C 2F	R2142	A C 8F	R3723	A C 4C				
C1506	B C 7D	C3117	B C 3H	CN1503	A C 1B	R1002	B C 2F	R2144	B C 8G	R3726	A C 4B				
C1507	B C 7D	C3118	B C 4H	CN1504	A C 9C	R1003	B C 3F	R2145	B C 9F	R3727	A C 4B				
C1508	B C 7D	C3119	B C 4H	CN1505	A C 9C	R1004	B C 3F	R2146	B C 9F	R3728	A C 3B				
C1509	A C 8D	C3120	B C 4H	CN2001	A C 2A	R1005	B C 2C	R2148	B C 9F	R3740	B C 3C				
C1510	A C 8D	C3121	B C 1H	CN3501	A C 1G	R1006	B C 2C	R2149	B C 9F	R4001	A C 3E				
C1515	B C 8C	C3122	B C 2H	CN3701	A C 1C	R1007	B C 2C	R2150	B C 9F	R4002	A C 3E				
C1516	B C 8C	C3123	B C 3H	CN4001	A C 4D	R1008	B C 2C	R2161	B C 1B	R4003	A C 4E				
C1517	B C 8C	C3124	B C 3H	DIODE						R2162	B C 1B	R4004	A C 4E		
C1518	B C 8C	C3125	B C 3H	D1501	A C 7B	R1009	B C 1E	R2165	B C 8H	R4005	A C 4E				
C1520	A C 6B	C3126	B C 3G	D1502	B C 8C	R1501	B C 5B	R3003	B C 4H	R4006	A C 4D				
C1521	B C 7B	C3127	B C 4G	D1503	B C 6B	R1502	A C 5B	R3004	B C 4H	R4007	A C 4D				
C1522	A C 8B	C3128	B C 4G	D2002	B C 8H	R1505	A C 5D	R3005	B C 4H	R4008	A C 4D				
C1523	A C 8C	C3129	B C 4G	D2003	B C 6H	R1506	A C 6D	R3008	B C 4G	R4009	A C 4D				
C1531	B C 6A	C3130	B C 4G	D2004	B C 7H	R1507	A C 6D	R3048	A C 6G	R4010	A C 4D				
C1532	A C 6B	C3131	A C 3C	IC						R3049	B C 6G	R4021	A C 3E		
C1533	A C 6A	C3140	A C 9E	IC1001	A C 2F	R1508	A C 6D	R3050	B C 6G	RA1505	A C 7D				
C1534	A C 6A	C3141	A C 9D	IC1002	A C 2E	R1509	A C 6D	R3054	B C 6G	RA1506	A C 7D				
C1535	A C 6A	C3142	A C 9E	IC1003	A C 2C	R1510	A C 6D	R3059	B C 6H	RA1507	A C 7D				
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C2003	B C 6G	C3501	B C 2G	IC1006	A C 1E	R1516	A C 8E	R3074	B C 5H	RA1510	A C 7E				
C2005	A C 8F	C3502	B C 2G	IC1007	A C 7C	R1517	A C 8E	R3075	B C 5H	OTHER					
C2006	B C 7G	C3503	B C 2G	IC1501	A C 7C	R1518	A C 7E	R3076	B C 5H	K1001	B C 4D				
C2007	B C 7G	C3504	A C 2F	IC1502	B C 8B	R1519	A C 7E	R3078	B C 5H	K2001	A C 8G				
C2008	B C 8G	C3505	A C 2F	IC1503	A C 5B	R1520	A C 7E	R3079	B C 5H	K2002	A C 8F				
C2009	B C 8G	C3506	A C 2F	IC1504	A C 7A	R1521	B C 8C	R3081	B C 5H	K3101	A C 9C				
C2010	A C 7F	C3507	A C 1G	IC1505	A C 6A	R1522	B C 8B	R3102	B C 3G	LC1002	A C 1C				
C2011	A C 8F	C3508	A C 1G	IC1601	A C 6E	R1531	B C 8C	R3103	B C 3G	LC1003	A C 1E				
C2014	B C 8H	C3509	A C 1G	IC2001	B C 7F	R1532	B C 8C	R3105	B C 3F	LC1004	A C 1E				
C2015	B C 8H	C3510	B C 2G	IC2002	A C 9F	R1533	B C 8C	R3106	B C 3G	LC3101	A C 9D				
C2016	B C 8H	C3511	B C 2G	IC2006	A C 8G	R1534	B C 8C	R3111	B C 1H	PC0973	A C 1H				
C2017	B C 8H	C3512	B C 2G	IC2007	A C 9F	R1535	B C 6B	R3112	B C 2H	PC0974	A C 9A				
C2018	B C 6E	C3513	B C 2G	IC3001	A C 5G	R1536	B C 7B	R3113	B C 2H	PC0980	A C 9B				
C2019	B C 7E	C3514	A C 2G	IC3101	A C 9E	R1537	B C 7B	R3114	B C 2H	PC0984	A C 1H				
C2020	B C 8H	C3515	A C 2G	IC3102	A C 9E	R1541	A C 7B	R3115	B C 2H	K4001	A C 3E				
C2021	B C 6E	C3516	A C 1H	IC3103	A C 3C	R1542	A C 7B	R3116	B C 2H	X2001	B C 8G				
C2022	B C 7H	C3517	A C 2H	IC3151	B C 2G	R1543	B C 8B	R3117	B C 3H	X2003	B C 7H				
C2023	A C 7G	C3521	A C 2H	IC3501	A C 2G	R1544	B C 7B	R3118	B C 3H	X3101	A C 8D				
C2024	B C 7H	C3523	A C 3H	IC3701	B C 4B	R1545	B C 7B	R3119	B C 3H						
C2025	A C 7G	C3531	B C 3G	IC3702	A C 4C	R1551	A C 6B	R3120	B C 4H						
C2026	B C 7H	C3532	B C 3F	IC3703	A C 4C	R1552	A C 6B	R3121	B C 4H						
C2027	B C 6H	C3533	B C 3G	IC4001	A C 3D	R1553	A C 6B	R3122	B C 4H						
C2028	B C 6H	C3534	B C 2G	IC4002	A C 3E	R1554	A C 6B	R3123	B C 4H						
C2029	B C 7H	C3535	B C 2G	COIL						R3124	B C 4H				
C2031	B C 6G	C3536	B C 3G	L1001	A C 1C	R1555	A C 6B	R3125	B C 4H						
C2032	B C 6F	C3537	B C 3G	L1002	A C 1D	R1556	A C 6B	R3126	B C 4H						
C2036	A C 7F	C3538	B C 3G	L1003	A C 1D	R1561	A C 7A	R3131	B C 2H						
C2037	A C 7G	C3539	B C 2G	L1004	A C 1E	R1571	A C 6A	R3132	B C 2H						
C2038	A C 6G	C3540	B C 2G	L1004	A C 1E	R1571	A C 6A	R3133	B C 2H						
C2039	A C 7F	C3701	A C 3B	L1501	A C 7A	R1572	A C 6A	R3134	B C 2H						
C2040	B C 6F	C3702	A C 3B	L1502	A C 8D	R1581	B C 9C	R3135	B C 2H						
C2041	A C 7F	C3703	B C 4B	L1505	A C 6A	R1582	B C 5B	R3136	B C 2H						
C2042	B C 7G	C3704	A C 3A	L2001	A C 8H	R1583	B C 5B	R3137	B C 3H						
C2043	A C 7F	C3705	A C 4B	L2002	B C 5F	R1584	A C 6B	R3138	B C 3H						
C2044	A C 7F	C3706	A C 4A	L2003	B C 5F	R1585	A C 6B	R3139	B C 3G						
C2046	A C 8F	C3707	A C 4A	L2004	B C 5F	R1586	A C 2B	R3140	B C 4G						
C2047	A C 8F	C3708	A C 4B	L2005	B C 5F	R1601	B C 6E	R3141	B C 4G						
C2048	A C 8F	C3709	A C 4A	L2006	B C 5F	R1602	A C 6E	R3142	B C 4G						
C2051	A C 5F	C3710	A C 4B	L2007	A C 8E	R1603	B C 6E	R3143	B C 4G						
C2052	B C 5F	C3711	A C 4B	L2009	B C 8H	R1604	B C 6E	R3161	A C 9E						
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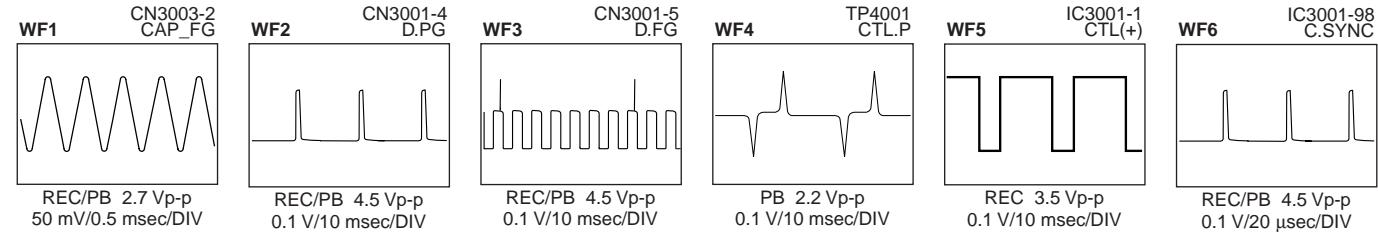
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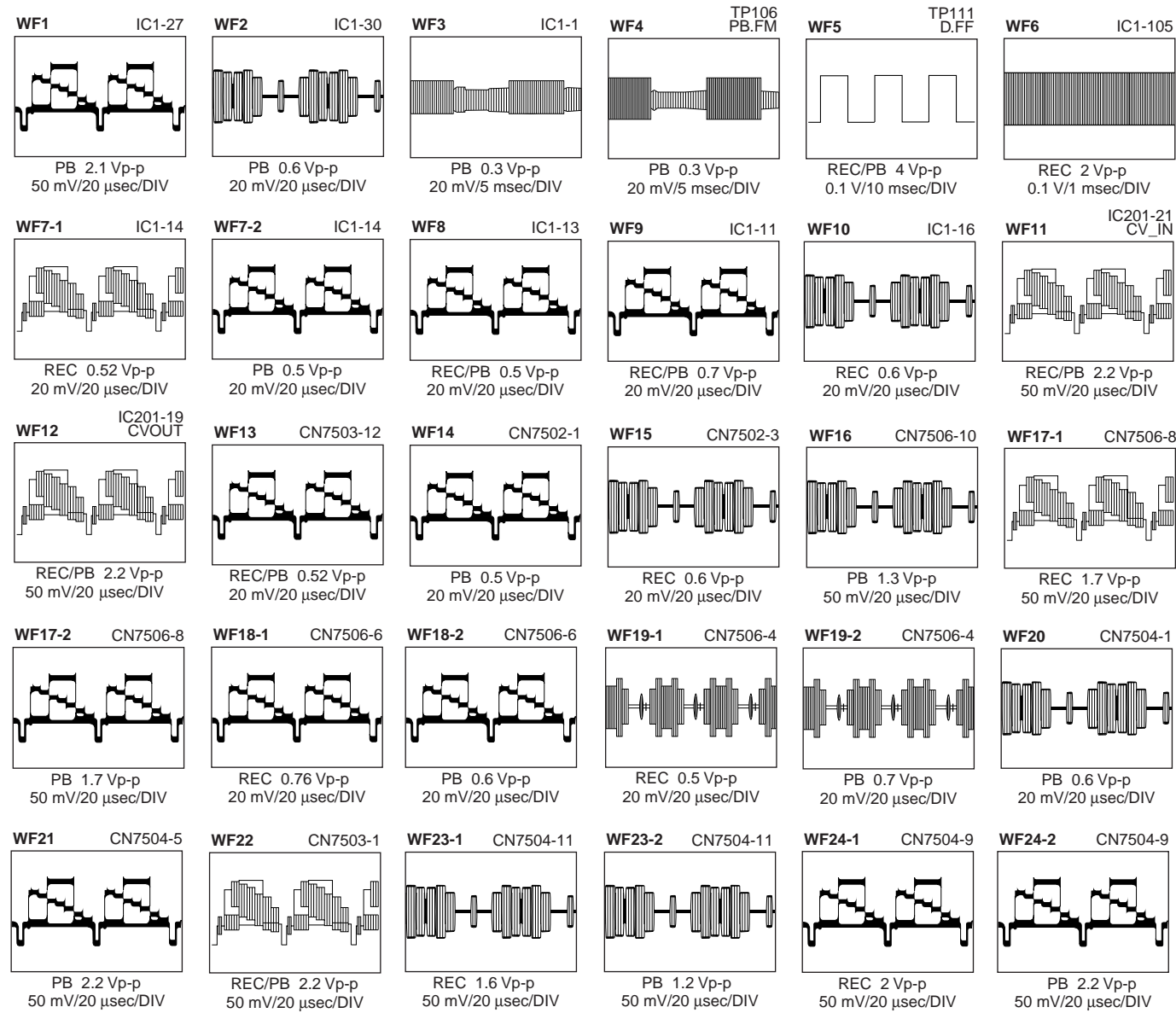
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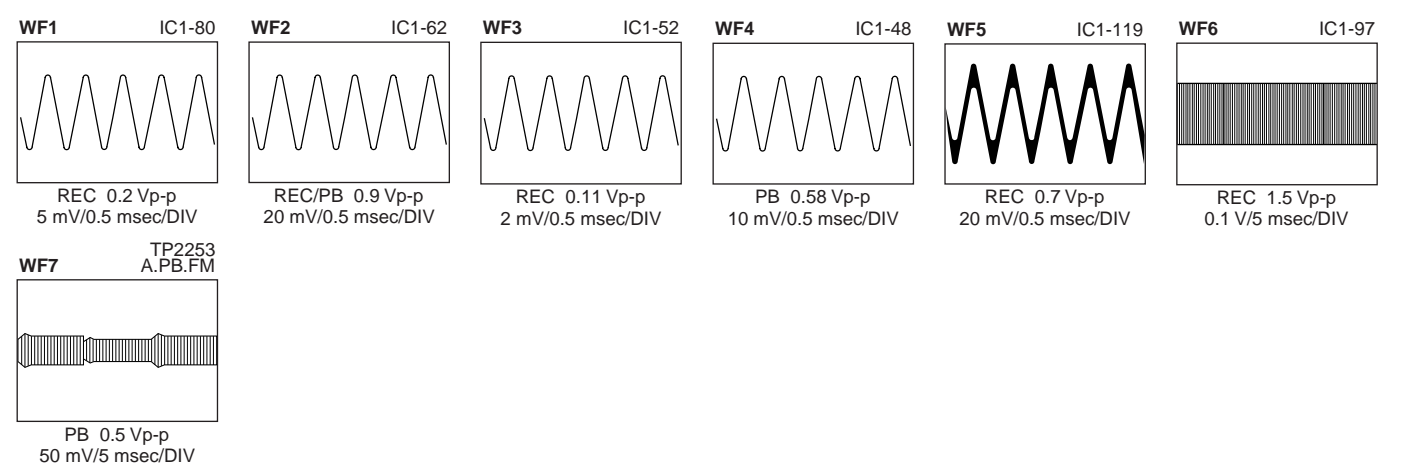
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4.30 VOLTAGE CHARTS

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3	10.6	10.6
IC5321		
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2	3.2	3.2
3	0	0
4	2.6	2.6
CN5001	-	-
CN5321		
1	19.8	20.0
2	11.7	11.7
3	0	0
4	0	0
5	0	0
6	-17.0	-17.0
7	-25.9	-25.9
8	-13.6	0
9	0	0
10	2.5	2.5
11	3.4	3.4
12	0	0
CN5322		
1	5.6	5.6
2	0.5	48.2
3	5.0	5.0
4	0.5	5.0
5	-7.2	-7.2
6	10.9	11.0
7	0	0
8	0	0
9	0	0
10	31.7	31.3
CN5323		
1	0	0
2	0	0
3	3.1	3.1
4	0	0
5	3.1	3.1
6	0	0
7	5.0	5.0
8	-7.2	-7.2
CN5324		
1	5.5	5.5
2	0	0
3	5.6	5.6
4	5.0	5.0
5	0	0
CN5325		
1	11.0	11.0
2	0	0

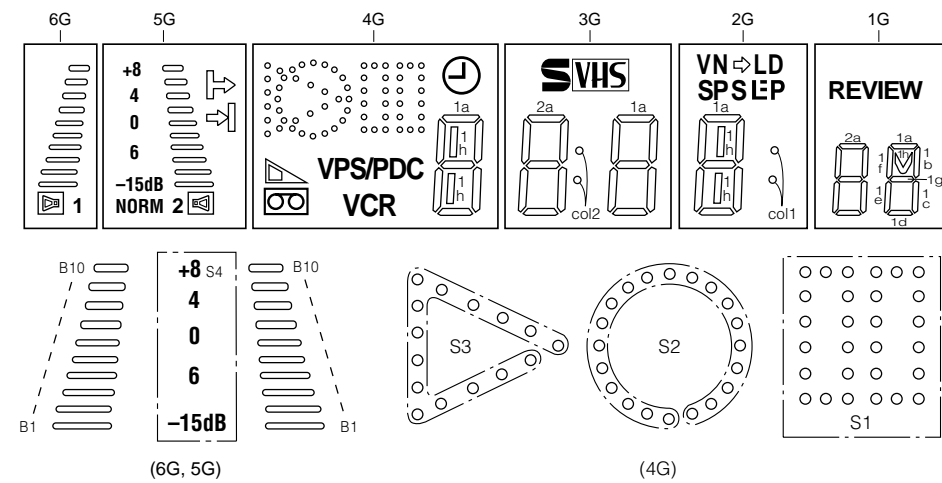
<MAIN>		
MODE PIN NO.	REC	PLAY
IC1		
1	4.2	2.2
2	2.8	2.9
3	2.6	2.6
4	1.9	1.4
5	1.9	1.4
6	2.4	2.1
7	1.6	0.7
8	0	0
9	2.6	3
10	1.9	2
11	3.1	3.1
12	2.8	2.4
13	3.1	3.1
14	3.5	2.4
15	0	0
16	2.8	2.8
17	1.5	1.5
18	2.8	2.8
19	0	4.8
20	2.8	2.8
21	1.5	2
22	2.8	2.8
23	3.1	2.9
24	4.9	4.9
25	0.3	0.3
26	0	0
27	1.3	2.3
28	2.8	2.5
29	1.9	1.9
30	2.1	2.1
31	0	0
32	2.6	2.6
33	4.9	4.9
34	2.7	2.4
35	4.9	4.9
36	2.6	2.6
37	3.3	2.3
38	2.2	2.2
39	1.3	1.3
40	1.7	1.7
41	2.7	2.7
42	2.2	2.2
43	0	0
44	2.1	2.1
45	4.6	4.6
46	4.1	4.1
47	2.9	2.9
48	2.6	2.6
49	5	5
50	2.4	2.5
51	2.8	2.8
52	2.3	2.3
53	2.3	2.3
54	2.6	2.6
55	2.2	2.2
56	0.5	0.5
57	2.3	2.3
58	8.3	8.3
59	4.6	4.6
60	4.1	4.1
61	4.2	4.2
62	4.2	4.2
63	2.3	2.3
64	2.3	2.3
65	0.6	0.6
66	3.1	3.1
67	4.2	4.2
68	4.2	4.2
69	2.3	2.3
70	0	0
71	0.2	0.2
72	0.2	0.2
73	0.3	0.3
74	2.3	2.3
75	2.5	2.5
76	0	0
77	2.6	2.6
78	0.3	0.3
79	0.3	0.3
80	0.2	0.2
81	2.3	2.3
82	0	0.7
83	0	0
84	2.3	2.3
85	2.3	2.3
86	2.3	2.3
87	1.6	1.8
88	2.3	2.3
89	2.3	2.3
90	2.3	2.3
91	0.1	0
92	0	0
93	0	2.4
94	0	1.8
95	0	0
96	2.6	2.3
97	2.6	2.3
98	2.6	2.3
99	4.9	4.9
100	0	4.9

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	2.4	2.4
107	4.9	4.9
108	0	0
109	0	0
110	0	0
111	0	1.8
112	2.5	2.5
113	0.7	0.7
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	4.5	4.5
IC201		
1	0	0
2	2.5	2.5
3	4.8	4.8
4	0	0
5	4.4	4.4
6	2.4	2.4
7	2.5	2.5
8	4.9	4.9
9	0	3.2
10	4.3	4.3
11	4.4	3.8
12	4.9	4.9
13	2.9	2.9
14	2.9	2.9
15	0	0
16	1.2	1.2
17	0	0
18	4.9	4.9
19	1.6	1.6
20	0	0
21	1.6	1.5
22	0.4	0.2
23	4.9	4.9
24	2.9	2.9
25	2.5	2.5
26	4.9	4.9
27	4.5	4.5
28	0	3.5
29	4.9	4.9
30	4.9	4.9
31	0	0
32	0.3	4.5
33	3.3	3.3
34	3.4	3.4
35	4.9	4.9
36	2.2	2.2
37	0.5	0.5
38	2.2	2.2
39	2.0	2.0
40	4.9	4.9
41	1.4	1.4
42	2.9	2.9
43	0	0
44	3.4	3.4
45	4.9	4.9
46	2.2	2.2
47	-4.9	-4.9
48	0	0
49	0	0
50	0	0
51	0.2	0.2
52	0	0
53	0.2	0.2
54	0	0
55	0	0
56	0	0
57	-4.9	-4.9
58	0	0
59	0	0
60	0	0
61	0	0
62	0	0
63	0	0
64	0	0
65	0	0
66	0	0
67	0	0
68	0	0
69	0	0
70	0	0
71	0	0
72	0	0
73	0	0
74	0	0
75	0	0
76	5.6	5.6
77	0	0
78	0	0
79	0.2	0.2
80	0	0
81	0	0
82	0.1	3.4
83	2.4	2.4
84	0	0
85	0	0
86	4.8	0
87	4.8	0
88	4.8	0
89	0.3	0
90	0	0
91	2.7	2.7
92	0	0
93	0	0
94	0	0
95	0	4.8
96	0	0
97	0	0
98	0.7	0
99	0	2.4
100	2.4	2.4
IC2601		
1	0	0
2	0	0
3	0.2	0.2
4	0	0
5	0	0
6	0	0
7	-4.9	-4.9
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	5.6	5.6
17	0	0
18	1.9	1.9
19	1.9	1.9
20	0	0
21	4.0	4.0
22	2.1	2.1
23	5.0	5.0
24	0	2.3
25	0	2.1
26	0	2.1
27	0	2.1
28	0	2.1
29	0	2.1
30	0	2.1
31	0	2.1
32	0	2.1
33	0	2.1
34	0	2.1
35	0	2.1
36	0	2.1
37	0	2.1
38	0	2.1
39	0	2.1
40	0	2.1
41	0	2.1
42	0	2.1
43	0	2.1
44	0	2.1
45	0	2.1
46	0	2.1
47	0	2.1
48	0	2.1
49	0	2.1
50	0	2.1
51	0	2.1
52	0	2.1
53	0	2.1
54	0	2.1
55	0	2.1
56	0	2.1
57	0	2.1
58	0	2.1
59	0	2.1
60	0	2.1
61	0	2.1
62	0	2.1
63	0	2.1
64	0	2.1
65	0	2.1
66	0	2.1
67	0	2.1
68	0	2.1
69	0	2.1
70	0	2.1
71	0	2.1
72	0	2.1
73	0	2.1
74	0	2.1
75	0	2.1
76	0	2.1
77	0	2.1
78	0	2.1
79	0	2.1
80	0	2.1
81	0	2.1
82	0	2.1
83	0	2.1
84	0	2.1
85	0	2.1
86	0	2.1
87	0	2.1
88	0	2.1
89	0	2.1
90	0	2.1
91	0	2.1
92	0	2.1
93	0	2.1
94	0	2.1
95	0	2.1
96	0	2.1
97	0	2.1
98	0	2.1
99	0	2.1
100	0	2.1

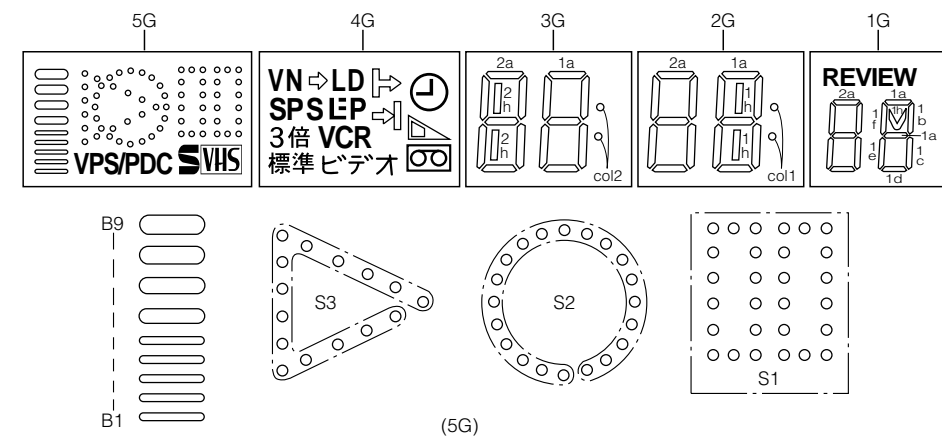
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3	1.6	1.6
4	0	0
5	1.6	1.6
6	4.9	4.9
7	1.0	1.0
8	0	0
1	1.8	2.5
2	0	2.4
3	2.0	1.9
4	0	0
5	0	-0.7
6	5.0	5.0
7	0	1.1
8	0	0
1	0	0
2	0	0
3	0	0
4	-6.0	-6.0
5	0	0
6	0	0
7	0	0
8	5.1	5.1
1	0	0
2	0	0
3	0.2	0.2
4	0	0
5	0	0
6	0	0
7	-4.9	-4.9
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	5.6	5.6
1	0	0
2	0	0
3	0	0
4	-6.0	-6.0
5	0	0
6	0	0
7	0	0
8	5.1	5.1
1	0.2	0.2
2	0	0
3	0.2	0.2
4	0	0
5	0	0
6	0	0
7	-4.9	-4.9
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	5.6	5.6
1	0.2	0.2
2	0	0
3	0.2	0.2
4	0	0
5	0	0
6	0	0
7	-4.9	-4.9
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	5.6	5.6
1	0	0
2	0	0
3	0.2	0.2
4	0	0
5	0	0
6	0	0
7	-4.9	-4.9
8	0	0
9	0	0

4.31 FDP GRID ASSIGNMENT AND ANODE CONNECTION

[A] (FDP with audio level indicator)



[B] (FDP without audio level indicator)



ANODE CONNECTION

[A]

	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

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	SVHS	Ⓜ	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

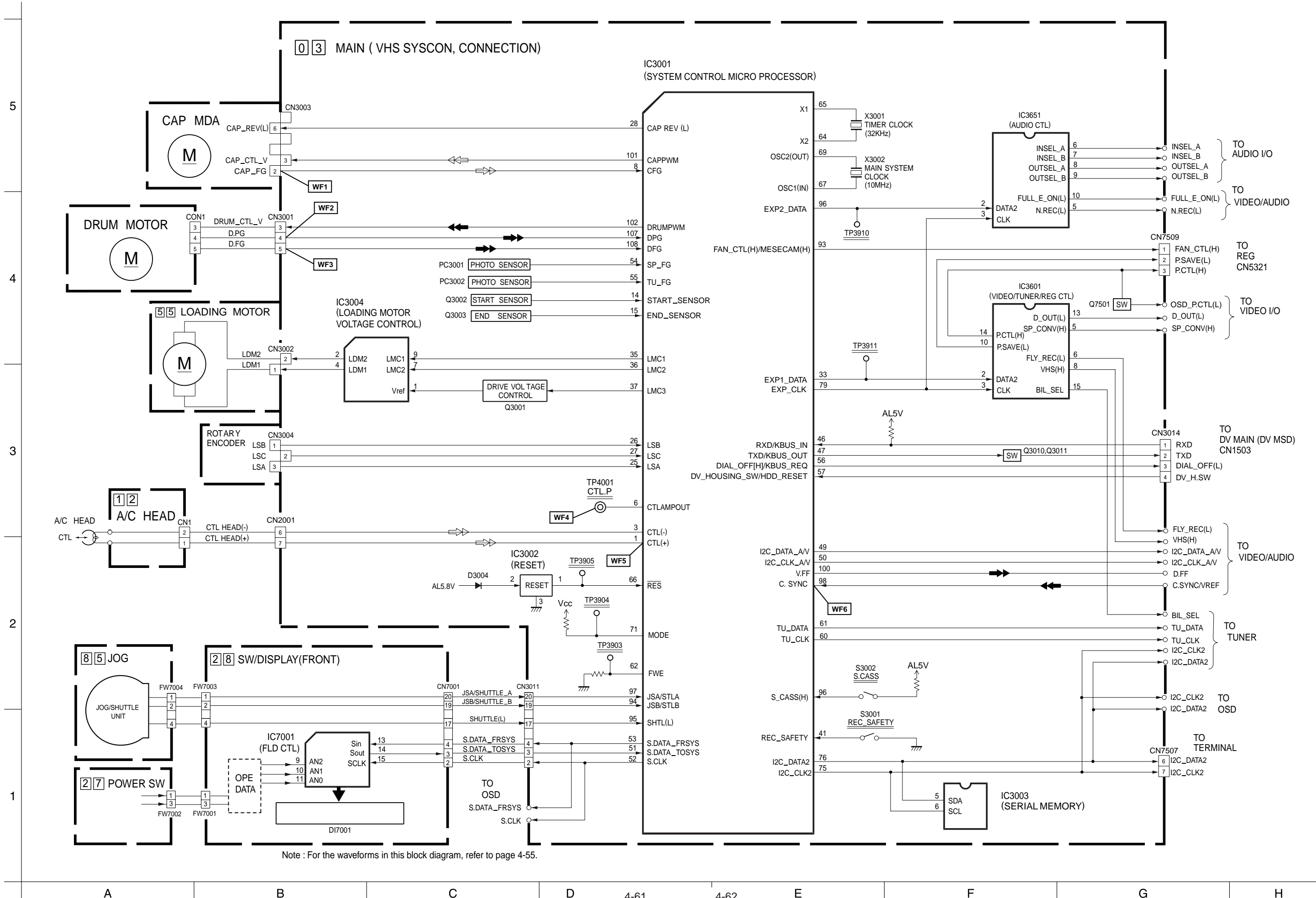
4.32 CPU PIN FUNCTION

<SYSCON IC3001>

PIN NO.	LABEL	IN/OUT	FUNCTION
1	CTL(+)	IN/OUT	CTL(+) SIGNAL
2	SVSS	-	GND
3	CTL(-)	IN/OUT	CTL(-) SIGNAL
4	CTLBIAS	-	CTL BIAS VOLTAGE
5	CTLFB	IN	CTL PULSE FEEDBACK
6	CTLAMP/OUT	OUT	CTL PULSE OUTPUT
7	CTLSMTIN	IN	CTL PULSE INPUT
8	CFG	IN	CAPSTAN FG PULSE INPUT
9	SVCC	-	SYSTEM POWER
10	AVCC	-	SYSTEM POWER FOR ANALOG CIRCUIT
11	NORMMESEC/S	IN	SVHS MODE:H
12	SECAM_DET(H)	IN	NC/COLOR KILLER DETECT/NC
13	VIDEO_ENV	IN	AUTO TRACKING DETECT/INPUT THE AVERAGE OF PLAYBACK VIDEO SIGNAL
14	START_SENSOR	IN	START SENSOR
15	END_SENSOR	IN	END SENSOR
16	TU_SYNC(H)	-	NC
17	S_CASS(H)	IN	DETECTION SIGNAL FOR S VHS CASSETTE(S VHS:H)
18	SYNC_DET(H)	IN	DETECTION OF VIDEO SYNC SIGNAL (DETECTED:H)
19	SCR_ID(H)	IN	SCRAMBLECONTROL INPUT (SCRAMBLE:H)
20	BS_ANT/AFC	IN	NC/TUNING CLOCK
21	RF_AGC_LED	IN	CHANGES IN AT&H OUTPUT AS CAUSED BY CHANGES IN RECEIVER SENSITIVITY WHEN THE SAME CHANNEL IS RECEIVED MORE THAN ONCE ARE INPUT.
22	A.ENV/ND(L)	IN	AUDIO PB FM ENV.INPUT/NON HIFI MODE:L
23	AVSS	-	GND FOR ANALOG CIRCUIT
24	CTL_GAIN	OUT	CONTROL AMP OUT FREQUENCY RESPONSE SWITCHING
25	LSA	IN	MECHANISM MODE DETECT(A)
26	LSB	IN	MECHANISM MODE DETECT(B)
27	LSC	IN	MECHANISM MODE DETECT(C)
28	CAP_REV(L)	OUT	CAPSTAN MOTOR REVERSE CONTROL (FWD:H/REV:L)
29	RC	IN	REMOTE CONTROL DATA INPUT
30	LOCK(L)	IN	TUNING PLL LOCK DETECT:L
31	P50_IN	IN	CONTROL SIGNAL FOR TV LINK
32	BS_REC_CTL	-	NC
33	EXP1_DATA	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR AUDIO/VIDEO CONTROL
34	P50_OUT/M_PULSE	OUT	CONTROL SIGNAL FOR TV LINK/NC
35	LMC1	OUT	LOADING MOTOR DRIVE(1)
36	LMC2	OUT	LOADING MOTOR DRIVE(2)
37	LMC3	OUT	LOADING MOTOR DRIVE(3)
38	SB_GAIN	OUT	VOLTAGE CONTROL SIGNAL FOR VIDEO FREQUENCY RESPONSE
39	STB/TEST	OUT	STROBE SIGNAL (FOR FDP DRIVER)
40	POWER_DET	IN	DETECTION SIGNAL FOR POWER DOWN OF AC POWER SUPPLY
41	REC_SAFETY	IN	REC SAFETY SWITCH DETECT (SW ON:L)
42	PROTECT	IN	DETECTION SIGNAL FOR SW POWER SUPPLY
43	VSS	-	GND
44	ANT_CTL(H)/RMO	OUT	NC/REMOTE CONTROL OUTPUT FOR SATELLITE RECEIVER
45	VCC	-	SYSTEM POWER
46	RXD/KBUS_IN	IN	RECIVED DATA/NC
47	TXD/KBUS_OUT	OUT	TRANSMITTE DATA/NC
48	KBUS_CLK	OUT	NC
49	I2C_DATA_AV	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR THE VIDEO/AUDIO IC
50	I2C_CLK_AV	OUT	SERIAL DATA TRANSFER CLOCK FOR THE VIDEO/AUDIO IC
51	S.DATA_TOSYS	IN	SERIAL DATA TRANSFER OUTPUT FROM THE ON-SCREEN IC TO THE FDP DRIVER
52	S.DATA_FRSYS	OUT	SERIAL DATA TRANSFER OUTPUT FROM THE FDP DRIVER TO THE ON-SCREEN IC
53	S.CLK	OUT	SERIAL DATA TRANSMISSION CLOCK FROM THE FDP DRIVER TO THE ON-SCREEN IC
54	SP_FG	IN	DETECTION SIGNAL FOR SUPPLY REEL ROTATION/TAPE REMAIN
55	TU_FG	IN	DETECTION SIGNAL FOR TAKE-UP REEL ROTATION/TAPE REMAIN
56	DIAL_OFF(H)/KBUS_REQ	OUT	POWER OFF (L)/NC

PIN NO.	LABEL	IN/OUT	FUNCTION
57	DV_HOUSING_SW/HDD_RESET	IN	CASS. IN (L → H → L)/NC
58	N.REC_ST(H)	OUT	NORMAL AUDIO SOUND RECORDING START
59	JUST/EDS(H)/SECAM	IN	NC
60	TU_CLK	OUT	CLOCK FOR DATA TRANSFER TO THE TUNER UNIT
61	TU_DATA	OUT	TUNING DATA
62	FWE	-	NC
63	NMI(L)	-	NC
64	X2	-	TIMER CLOCK (32.768KHz)
65	X1	-	TIMER CLOCK (32.768KHz)
66	RES(L)	-	RESET TERMINAL (RESET ON:L)
67	OSC1(IN)	-	MAIN SYSTEM CLOCK(10MHz)
68	VSS	-	GND
69	OSC2(OUT)	-	MAIN SYSTEM CLOCK(10MHz)
70	VCC	-	SYSTEM POWER
71	MODE	-	NC
72	TU_A_MUTE(H)	OUT	TUNER AUDIO MUTE CONTROL (MUTE:H)
73	TU_V_MUTE(H)	OUT	TUNER VIDEO CONTROL (MUTE:H)
74	A.MUTE(H)	OUT	AUDIO MUTE CONTROL (MUTE:H)
75	I2C_CLK2	OUT	SERIAL DATA TRANSFER CLOCK FOR MEMORY IC
76	I2C_DATA2	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR MEMORY IC
77	VHS_DUB(H)	OUT	DUB MODE (H)
78	PAUSE	IN	PAUSE CONTROL
79	EXP_CLK	OUT	SERIAL DATA TRANSFER CLOCK FOR AUDIO/VIDEO AND TUNER/REG CONTROL
80	V.PCTL	OUT	V.PULSE CONTROL, V COMPENSATION DURING SPECIAL PLAYBACK
81	EDS_CS/PAL.PB(H)	OUT	NC/PLAYBACK MODE FOR PAL:H
82	VCC	-	SYSTEM POWER
83	SLOW_PULSE	OUT	MEMORY TIMING CONTROL IN THE SLOW MODE
84	VSS	-	GND
85	SP_SHORT(H)	OUT	MODE SELECT
86	LP_SHORT(H)	OUT	MODE SELECT
87	FLY_ON(H)	OUT	FLYING ERASE ON:H
88	H.REC_ST(H)	OUT	HIFI AUDIO SOUND RECORDING START
89	TRICK(H)/M_TRICK(L)	OUT	SPECIAL PLAYBACK: H:REC AFC FILTER, PB APC FILTER, BURST ACC FILTER, COLOR KILLER DET FILTER
90	HEAD_SEL	OUT	HEAD SELECT (LP HEAD:H,SP HEAD:L)
91	OSD_CS	OUT	CHIP SELECT FOR THE ON-SCREEN IC
92	ET_PB(H)	IN	NC
93	FAN_CTL(H)/MESECAM(H)	OUT	FAN MOTOR CONTROL/MESECAM:H
94	JSB/STLB	IN	INPUT FOR THE JOG SHUTTLE
95	SHTL(L)/JOGA	IN	INPUT FOR THE JOG SHUTTLE
96	EXP2_DATA	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR TUNER/REG CONTROL
97	JSA/STLA	IN	INPUT FOR THE JOG SHUTTLE
98	C.SYNC	IN	COMPOSITE SYNC
99	A.FF	OUT	AUDIO FF OUTPUT
100	V.FF	OUT	ROTATION DETECTION SIGNAL FOR DRUM MOTOR/TIMING CONTROL SIGNAL FOR REC
101	CAPPWM	OUT	CAPSTAN MOTOR CONTROL
102	DRUMPWM	OUT	DRUM MOTOR CONTROL
103	SW1	OUT	TUNER SYSTEM MODE:H
104	SW2	OUT	TUNER SYSTEM MODE:L
105	SP(H)	-	NC
106	P.MUTE(L)	OUT	PICTURE CONTROL (MUTE:L)
107	DPG	IN	DRUM PICKUP PULSE INPUT (SWITCHING PULSE)
108	DFG	IN	DRUM FG PULSE INPUT
109	VCC	-	SYSTEM POWER
110	V.PULSE	OUT	V.PULSE ADDITION TIMING CONTROL
111	VSS	-	GND
112	CTLREF	-	CTL REFERENCE VOLTAGE

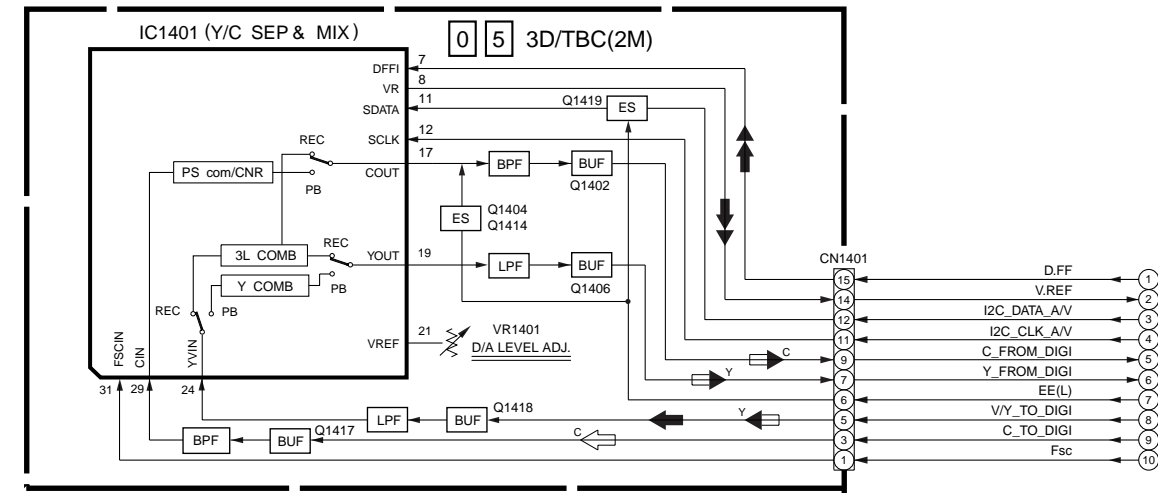
4.33 SYSTEM CONTROL BLOCK DIAGRAM (VHS)



Note : For the waveforms in this block diagram, refer to page 4-55.

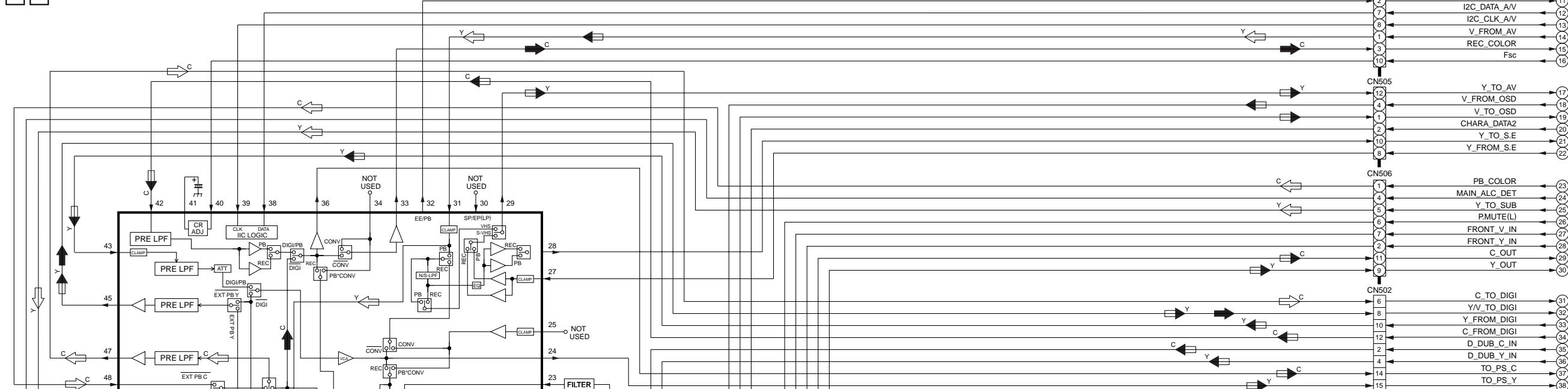
4.34 VIDEO BLOCK DIAGRAM (VHS)

5



4

0 6 TERMINAL(S-SUB, I/O)

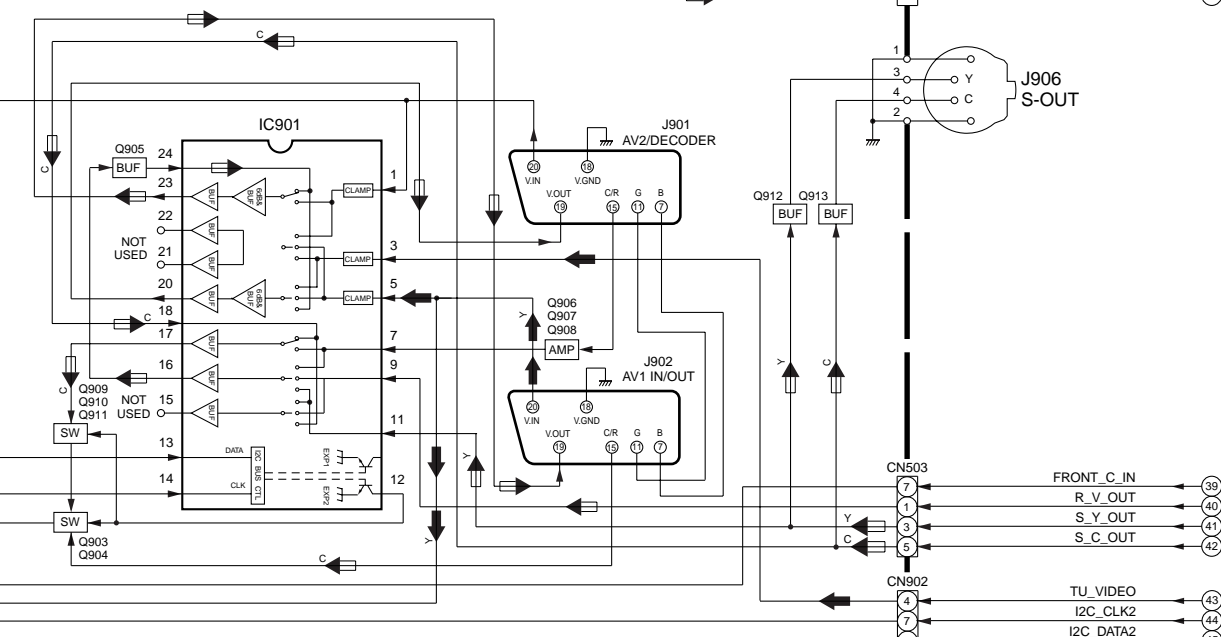


3

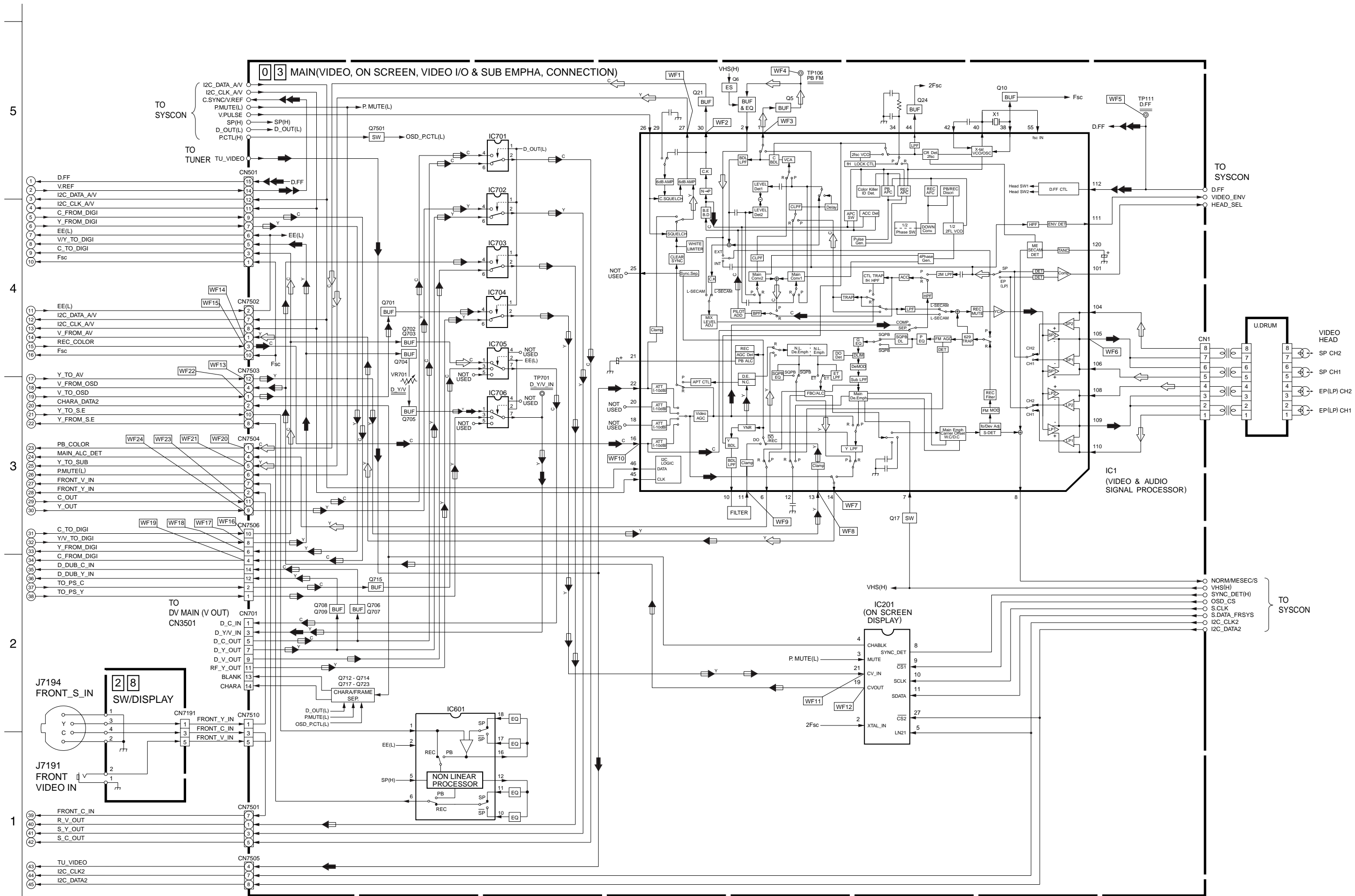
2

1

IC501 (Y/C SWITCH)

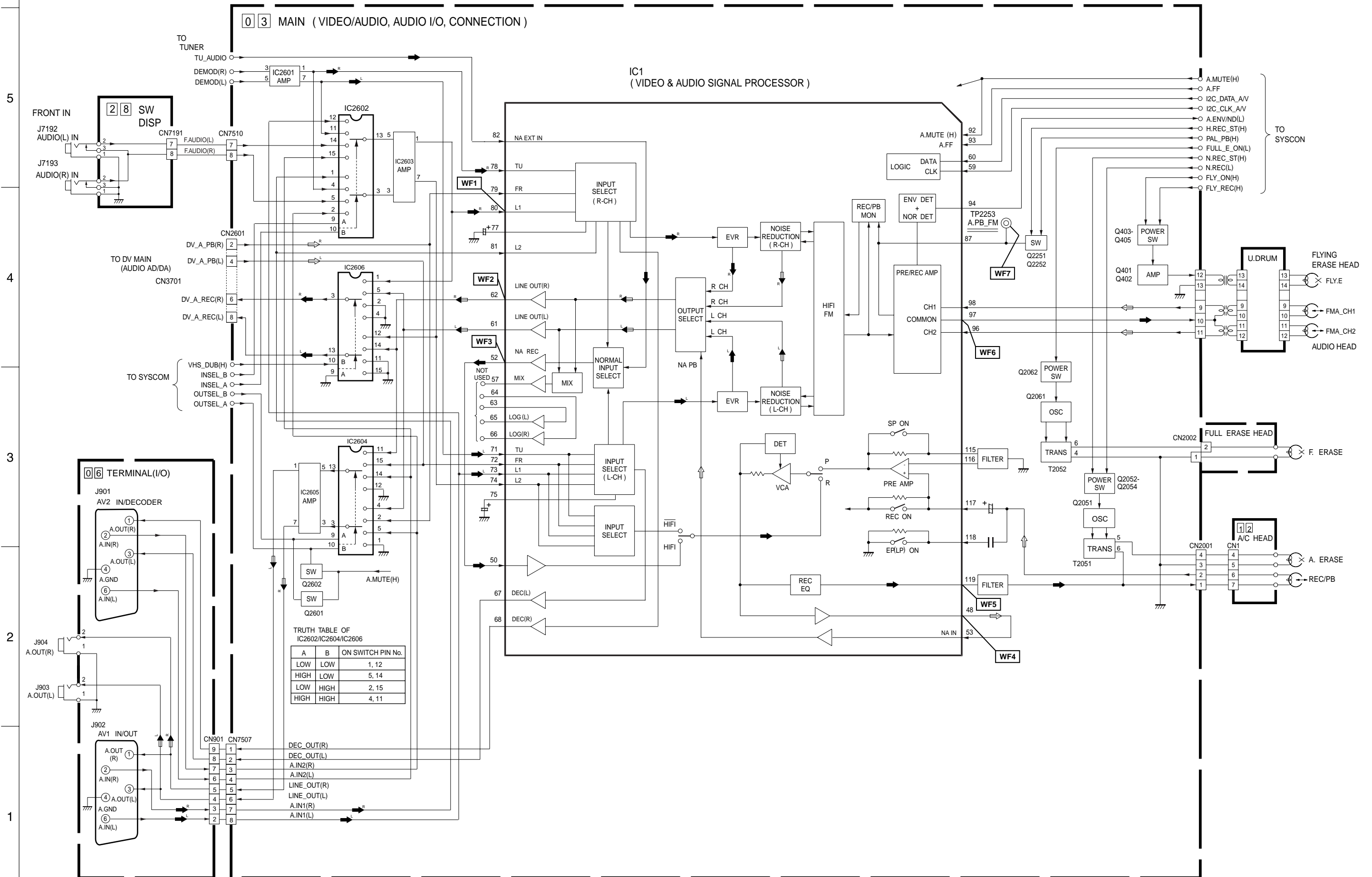


A B C D 4-63 4-64 E F G H



Note : For the waveforms in this block diagram, refer to page 4-55.

4.35 AUDIO BLOCK DIAGRAM (VHS)



0 3 MAIN (VIDEO/AUDIO, AUDIO I/O, CONNECTION)

IC1 (VIDEO & AUDIO SIGNAL PROCESSOR)

0 6 TERMINAL(I/O)

TRUTH TABLE OF IC2602/IC2604/IC2606

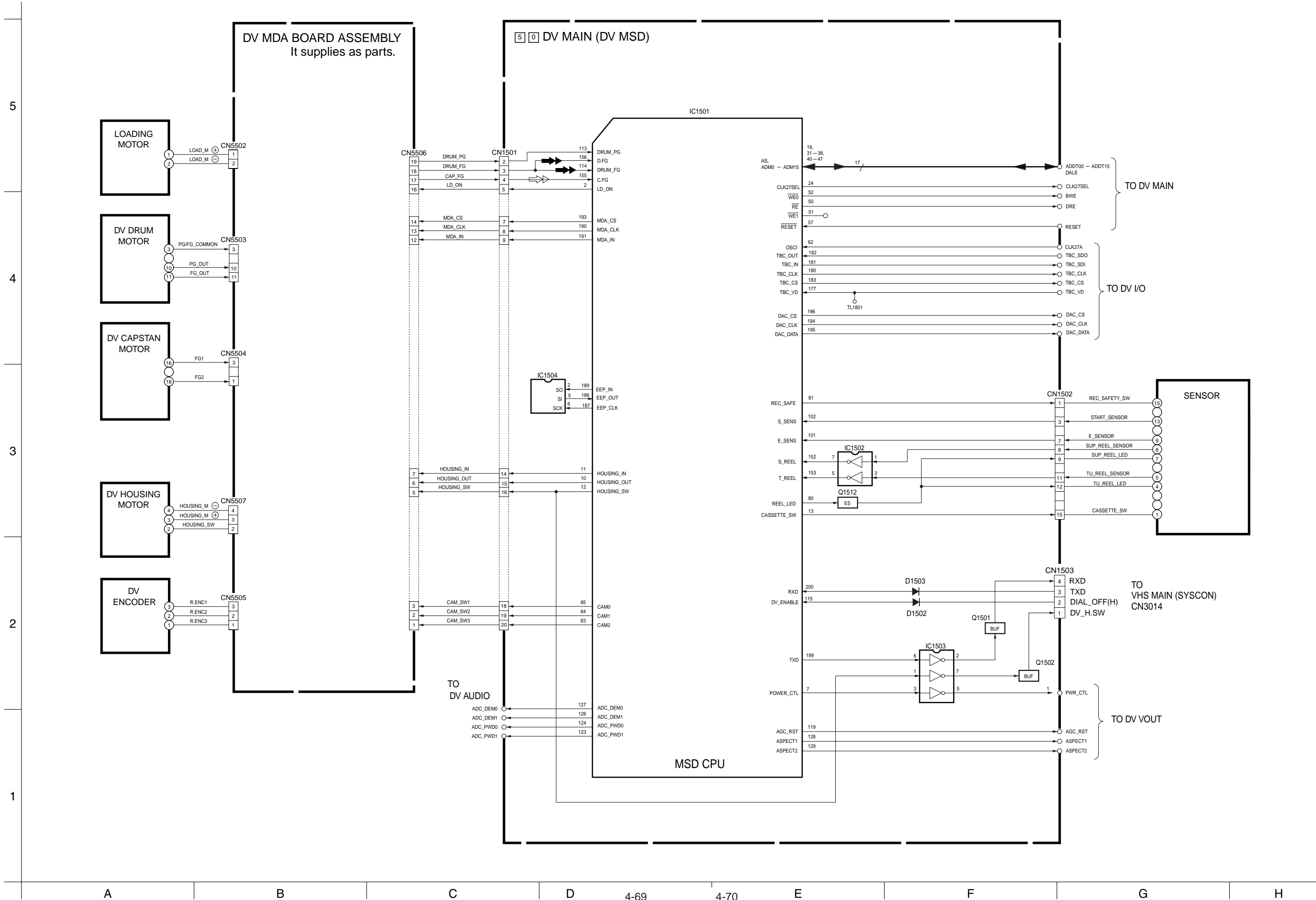
A	B	ON SWITCH PIN No.
LOW	LOW	1, 12
HIGH	LOW	5, 14
LOW	HIGH	2, 15
HIGH	HIGH	4, 11

Terminal Connections

Terminal	Pin	Signal
CN901	1	DEC_OUT(R)
CN901	2	DEC_OUT(L)
CN901	3	A.IN2(R)
CN901	4	A.IN2(L)
CN901	5	LINE_OUT(R)
CN901	6	LINE_OUT(L)
CN901	7	A.IN1(R)
CN901	8	A.IN1(L)
CN7507	1	DEC_OUT(R)
CN7507	2	DEC_OUT(L)
CN7507	3	A.IN2(R)
CN7507	4	A.IN2(L)
CN7507	5	LINE_OUT(R)
CN7507	6	LINE_OUT(L)
CN7507	7	A.IN1(R)
CN7507	8	A.IN1(L)

Note : For the waveforms in this block diagram, refer to page 4-56.

4.36 SYSTEM CONTROL BLOCK DIAGRAM (DV)



4.37 VIDEO BLOCK DIAGRAM (DV)

