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.

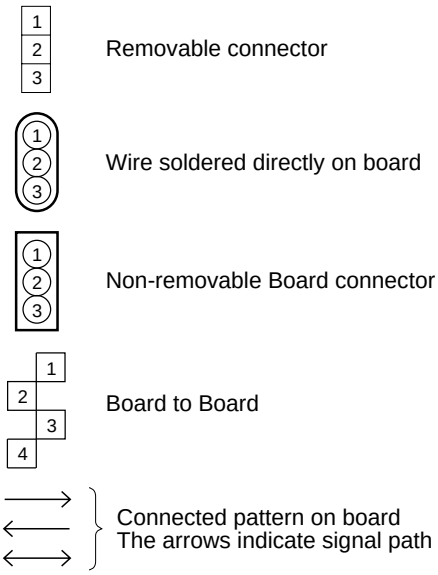
1) All resistance values are in ohm, 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K or k: kΩ (1000Ω), M: MΩ (1000kΩ)
2) All capacitance values are in µF, (P: PF).
3) All inductance values are in µH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

AUX : Active at high

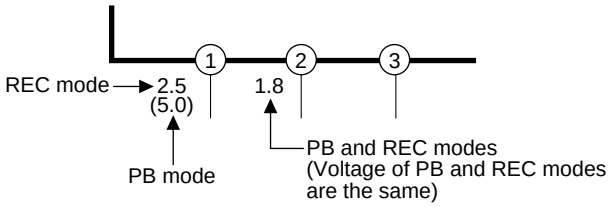
$\overline{\text{AUX}}$ or AUX(L) : Active at low

3. Interpreting Connector indications



4. Voltage measurement

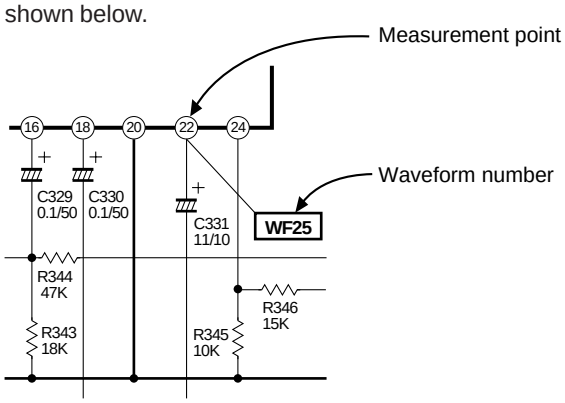
1) Video circuits
   REC : Colour bar signal in SP mode, normal VHS mode
   PB : Alignment tape, colour bar SP mode, normal VHS mode
   — : Unmeasurable or unnecessary to measure
2) Audio circuits
   REC : 1KHz, –8 dBs sine wave signal in SP mode, Normal VHS mode
   PB : REC then playback it
3) Movie 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.



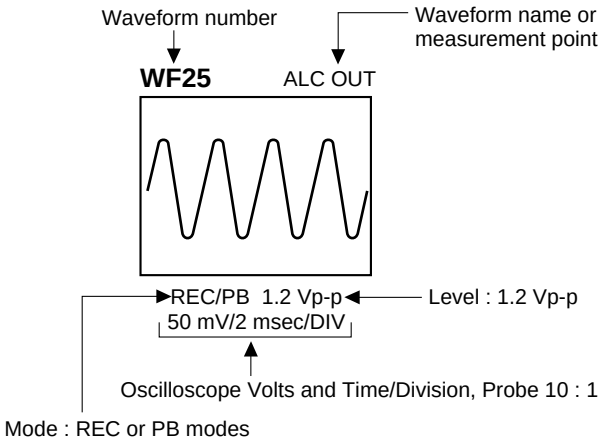
Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

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 chatrs 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.

Playback signal path

Playback and recording signal path

Recording signal path
(including E-E signal path)

Capstan servo path

Drum servo path

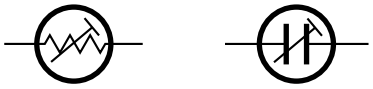
(Example)

R-Y Playback R-Y signal path

Y Recording Y signal path

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.

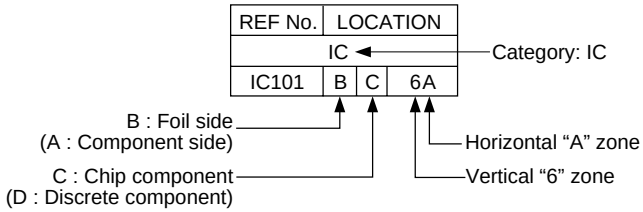
CIRCUIT BOARD NOTES

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

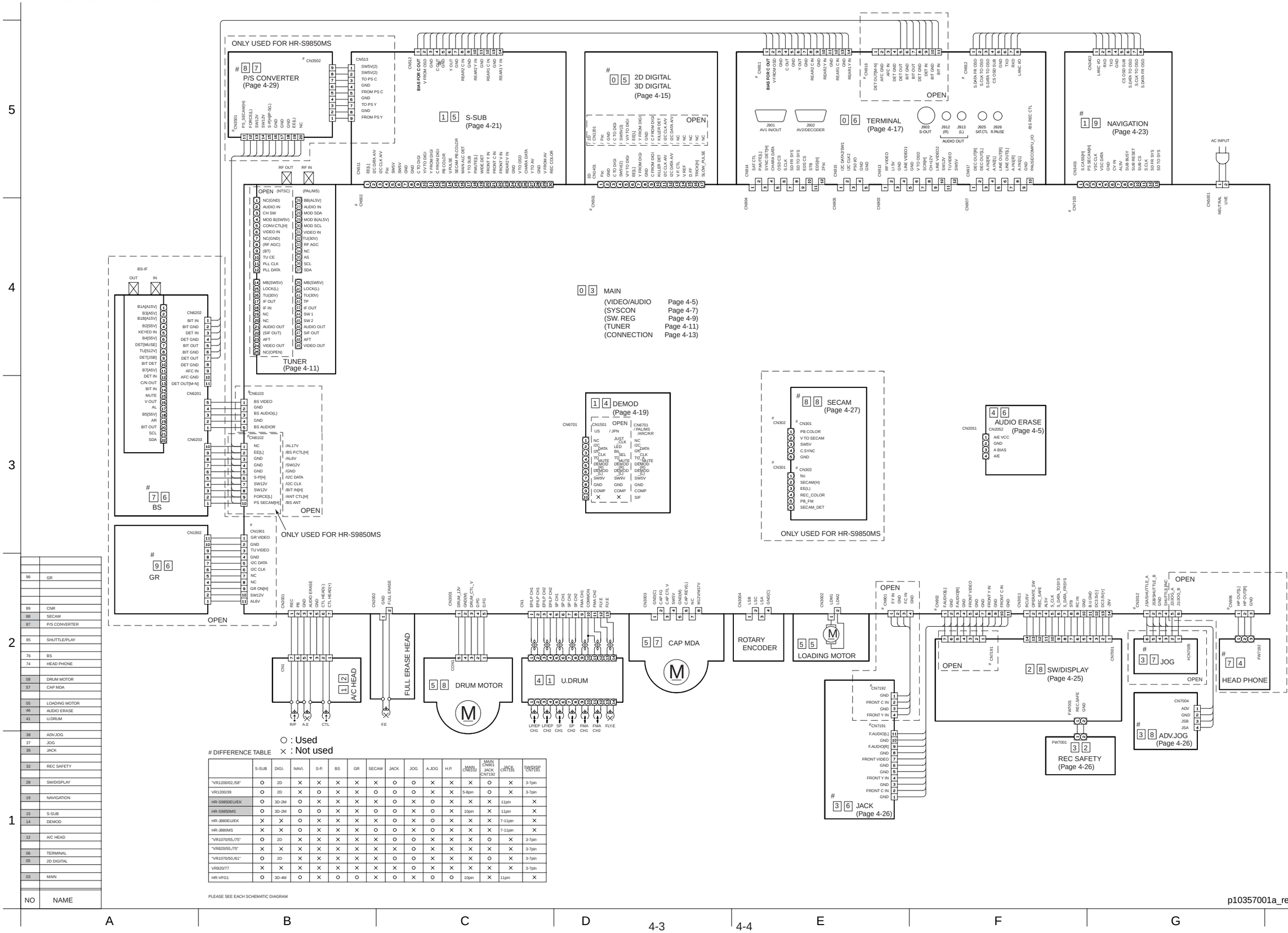
Parts location are indicated by guide scale on the circuit board.



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



NO	NAME
96	GR
89	CNR
88	SECAM
87	P/S CONVERTER
85	SHUTTLE/PLAY
76	BS
74	HEAD PHONE
58	DRUM MOTOR
57	CAP MDA
55	LOADING MOTOR
46	AUDIO ERASE
41	U.DRUM
38	ADVJOG
37	JOG
36	JACK
32	REC SAFETY
28	SW/DISPLAY
19	NAVIGATION
15	S-SUB
14	DEMOD
12	A/C HEAD
06	TERMINAL
05	2D DIGITAL
03	MAIN

DIFFERENCE TABLE

	S-SUB	DIGI.	NAVI.	S-P.	BS	GR	SECAM	JACK	JOG	A.JOG	H.P.	MAIN CN6102	MAIN CN901 JACK CN7192	JACK CN7191	SW/DISP CN7191
"VR1200/02,/58"	○	2D	×	×	×	×	×	○	○	×	×	×	○	×	3-7pin
VR1200/39	○	2D	×	○	×	×	○	○	○	×	×	5-8pin	○	×	3-7pin
HR-S9850EU/EK	○	3D-2M	○	×	×	×	×	○	×	○	×	×	×	11pin	×
HR-S9850MS	○	3D-2M	○	○	×	×	○	○	×	○	×	10pin	×	11pin	×
HR-J880EU/EK	×	×	○	×	×	×	×	○	×	○	×	×	×	7-11pin	×
HR-J880MS	×	×	○	×	×	×	○	○	×	○	×	×	×	7-11pin	×
"VR1070/55,/75"	○	2D	×	×	×	×	×	○	○	×	×	×	○	×	3-7pin
"VR820/55,/75"	×	×	×	×	×	×	×	×	○	×	×	×	×	×	3-7pin
"VR1070/50,/61"	○	2D	×	×	×	×	×	○	○	×	×	×	○	×	3-7pin
VR820/77	×	×	×	×	×	×	×	×	○	×	×	×	×	×	3-7pin
HR-VFG1	○	3D-4M	○	×	○	○	×	○	×	○	○	10pin	×	11pin	×

PLEASE SEE EACH SCHEMATIC DIAGRAM

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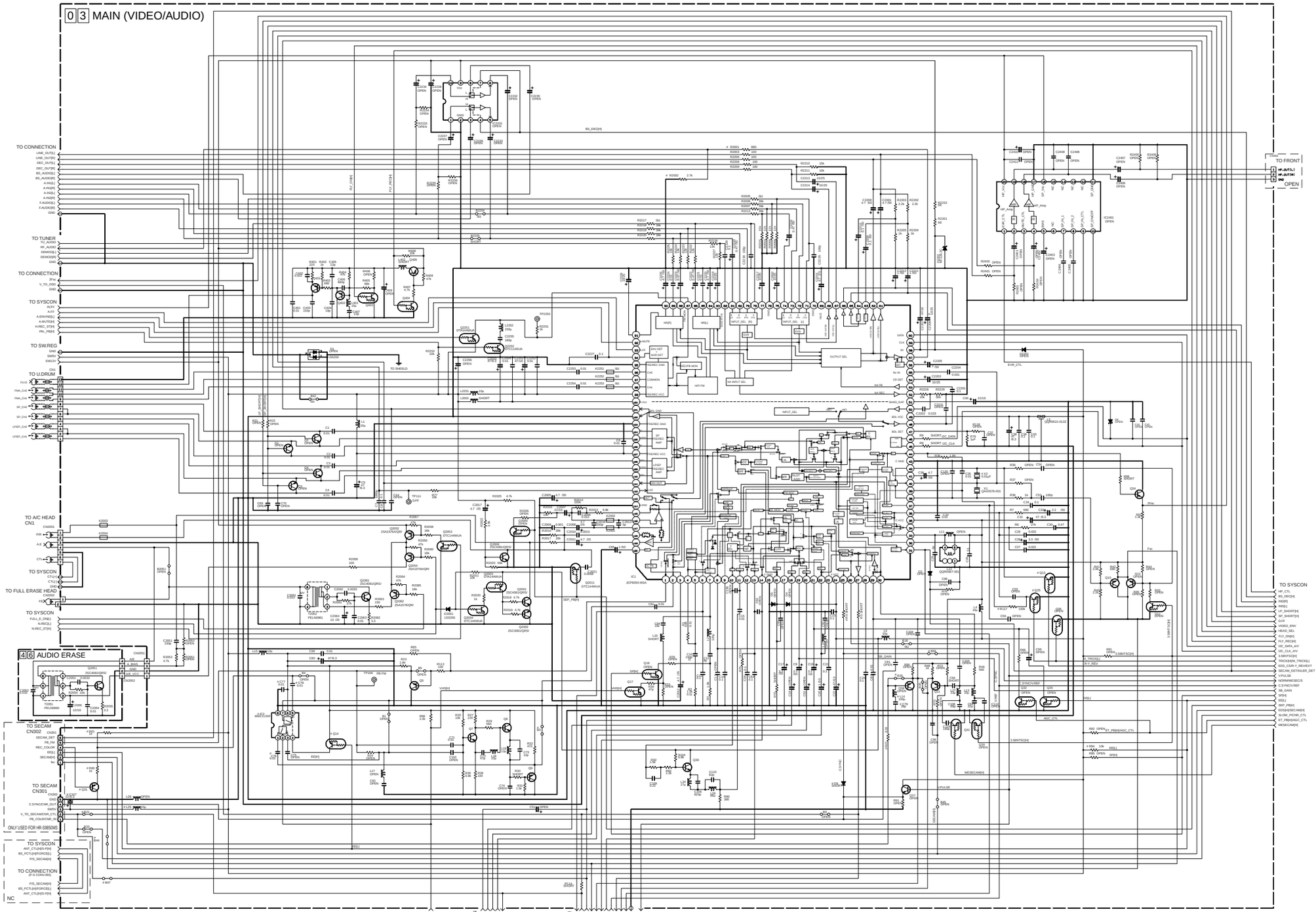
4.2 MAIN (VIDEO/AUDIO) SCHEMATIC DIAGRAM

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 VIDEO

○ : Used
× : Not used

	B3	"B26,B44" "R47,R60,R61,R64" "C76,C77,C78,C79,C107"	IC2 "Q14,Q31" "L141,25"	D8	B21	B47
EURO	○	×			×	×
MS S-P	×	○			○	×
MS S-P/P-S	×	○			×	○

		B56 Q13	Q25 R117 X2	R4
2D		○	×	○
3D/TBC	EURO	×	○	×
	MS	×	○	○

DIFFERENCE TABLE AUDIO

	"R2001," "R2002," C2206
WITH RF OUT	○
W/O RF OUT	×

K2001 - K2004 = NQL103K-R10X

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL NPN TYPE TRANSISTORS ARE 2SC4081/QRS/ or 2SD1819A/QRS/ or 2PC4081/R/.
ALL PNP TYPE TRANSISTORS ARE 2SA1576A/QRS/ or 2SB1218A/QR/ or 2PA1576/R/.
ALL NPN TYPE DIGITAL TRANSISTORS ARE DTC144WUA or UN521E or PDTC144WU 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

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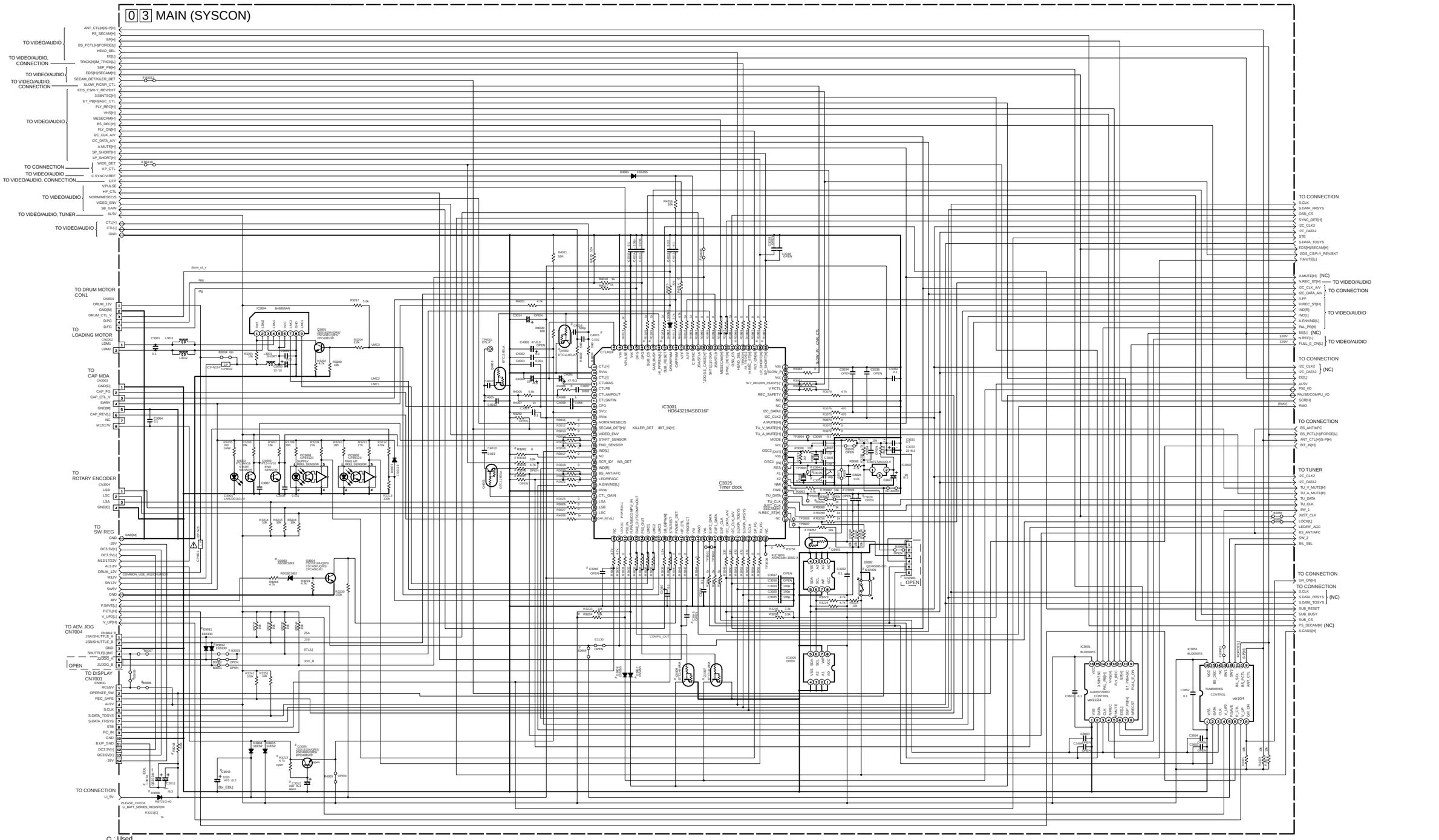
4.3 MAIN (SYSCON) SCHEMATIC DIAGRAM

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

○ : Used
× : Not used

BACK UP TIME	C3010	C3011	C3042
3MIN	×	3300	×
10MIN	×	4700	×
60MIN	-229	×	○
BATT	×	3300	×

JOG CTL TYPE	CN3012	B3003 B3006 B3007	D3011 D3012	B3005
J/S	6Pin	○		×
ADV.JOG	4Pin	×		○

FEATURE TYPE	D3008 Q3007	D3007	Q3009	S3002
SVHS	×	×	×	○
TV-LINK[P50]	○	×	×	×
R.PAUSE	×	SHORT	×	×
R.A.EDIT	×	○	○	×
VR1200/39	○	SHORT	×	○

SUB CLK ADJ	X3001	C3025	C3041	C3024
ADJ	QAX0445	○	×	22p
FIX	QAX0444	×	10p	12p

	R3242	R3247	B3012	B3030	B3056 B3130	B3096	B3118	B3651	B3665
JPN	×	×	×	×	○	×	○	×	○
"UMJK"	0Ω	○	×	○	×	○	×	×	×
LATIN	0Ω	○	○	○	×	○	×	×	×
PH EURO	4.7k	×	○	○	×	○	×	○	○
JVC EURO	4.7k	×	○	○	×	×	×	○	○
ARC	0Ω	○	○	○	×	○	×	○	×

MECHA TYPE	C4015	C4016	Q4002	C4005	C4017	Q4003
Y29-2	0.001	×	×	○	×	×
Y29-T	0.001	×	×	×	○	○
Y29-T+SEP	330p	○	○	×	○	○

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

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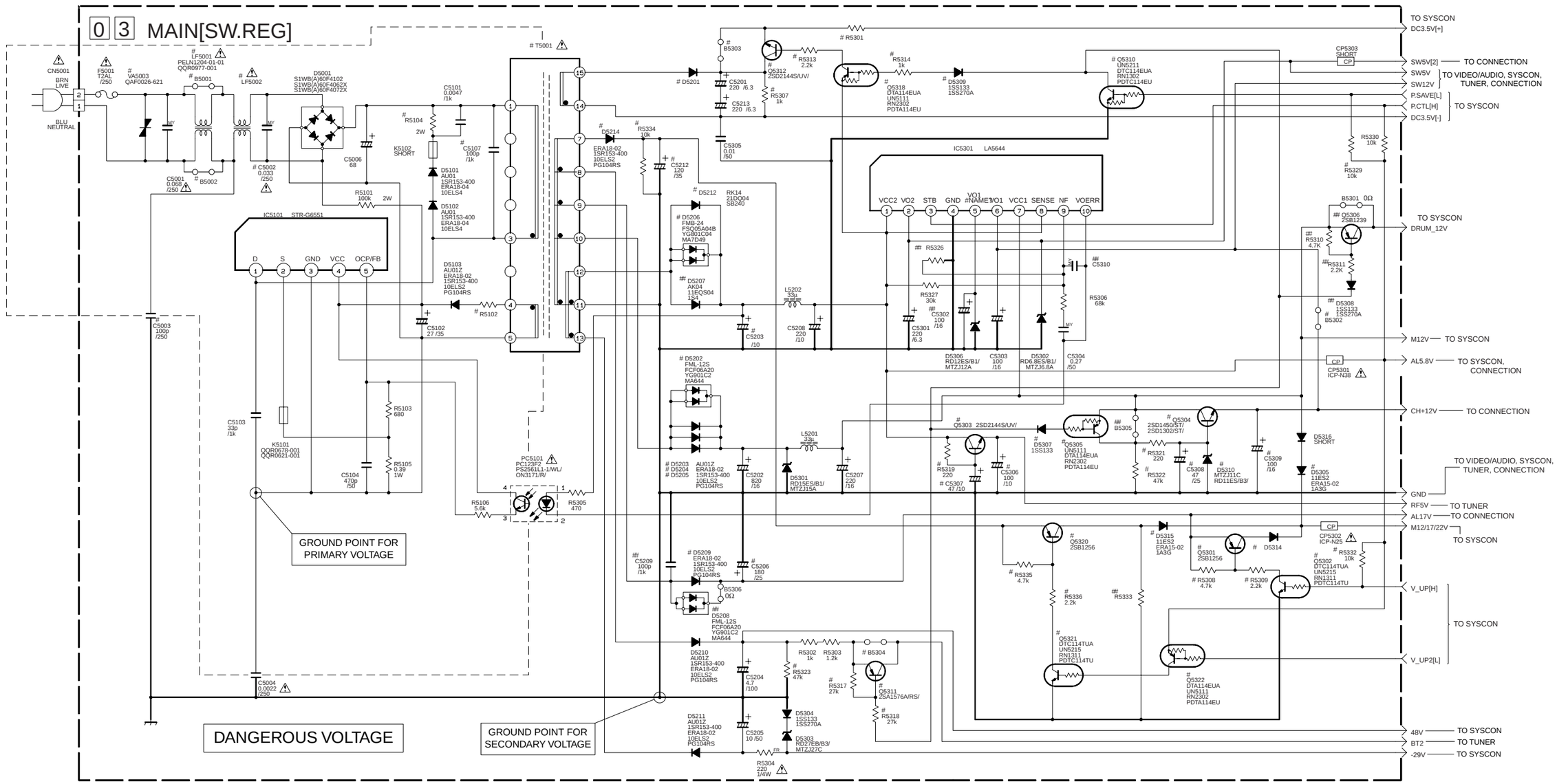
4.4 MAIN (SW.REG) SCHEMATIC DIAGRAM

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.



DIFFERENCE TABLE 1

		D5202	D5203 D5204 D5205	D5206	D5212	C5203
D25	EU/EK/MS/A/M	NO	YES	NO	YES	1200
S1	EU/EK	YES	NO	YES	NO	1200
	MS	YES	NO	YES	NO	2200
	A	YES	NO	YES	NO	1200
	UM/M/EN/K	NO	YES	YES	NO	1200
S2,S35	EU/EK/MS	YES	NO	YES	NO	2200
S25 S36	EU/EK/MS	YES	NO	YES	NO	2200

DIFFERENCE TABLE 2

	LF5001	LF5002	C5002	B5001 B5002	C5107		
AC INPUT 220-240V (CE)	YES	QQR0978-001 QQR0608-001 QQR0609-001 QQR0610-001	YES	NO	YES		
AC INPUT 110-240V (OTHER)	NO	QQR0532-001 QQR0533-001 QQR0516-001 QQR0627-001 QQR0816-001	NO	YES	NO		

DIFFERENCE TABLE 3

CH+12V	B5302	Q5304 D5310 R5321 R5322 C5308 C5309
YES	NO	YES
NO	YES	NO

DIFFERENCE TABLE 4

P.SAVE		B5303 B5304	Q5305 Q5310 Q5311 Q5312 Q5318 D5307 D5309 R5307 R5313 R5314 R5317 R5318 R5323 R5329
YES	FF/REW 75s	NO	YES
	OTHER	NO	YES
NO		YES	NO

DIFFERENCE TABLE 5

		R5301	D5201
LEVEL IND	YES	EU/EK/MS 1	AK04 11EQS04 1S4
		OTHER SHORT	
LEVEL IND	NO	SHORT	AU01Z 10ELS2

MARK ELEMENTS ARE NOT MOUNTED

DIFFERENCE TABLE 6

	R5104	C5003	C5103	C5107	K5102
PHILIPS /75	68k	YES	33p	NO	SHORT
OTHER	150k	NO	33p	100p	SHORT

DIFFERENCE TABLE 7

HIGH SPEED FF/REW	Q5301 Q5302 D5209 C5206	R5308 R5309 R5332	D5305	D5314	D5315	Q5320 Q5321 Q5322 D5214	C5212 R5334 R5335 R5336	T5001	R5102
NO	NO		SHORT	NO	NO	NO		QQS0052-001	4.7
100s 85s	YES		YES	SHORT	NO	NO		QQS0052-001	4.7
75s	S1,S2,S35	YES	YES	11ES2 ERA15-02 1A3G	YES	YES		QQS0057-001	33
	S25,S36	YES	YES	11ES2 ERA15-02 1A3G	YES	YES		QQS0057-001	39

DIFFERENCE TABLE 8

	VA5003
JVC	NO
PHILIPS	YES

DIFFERENCE TABLE 9

	Q5303 R5319	C5306 C5307
PHILIPS /50 /61 /77	NO	
OTHER	YES	

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

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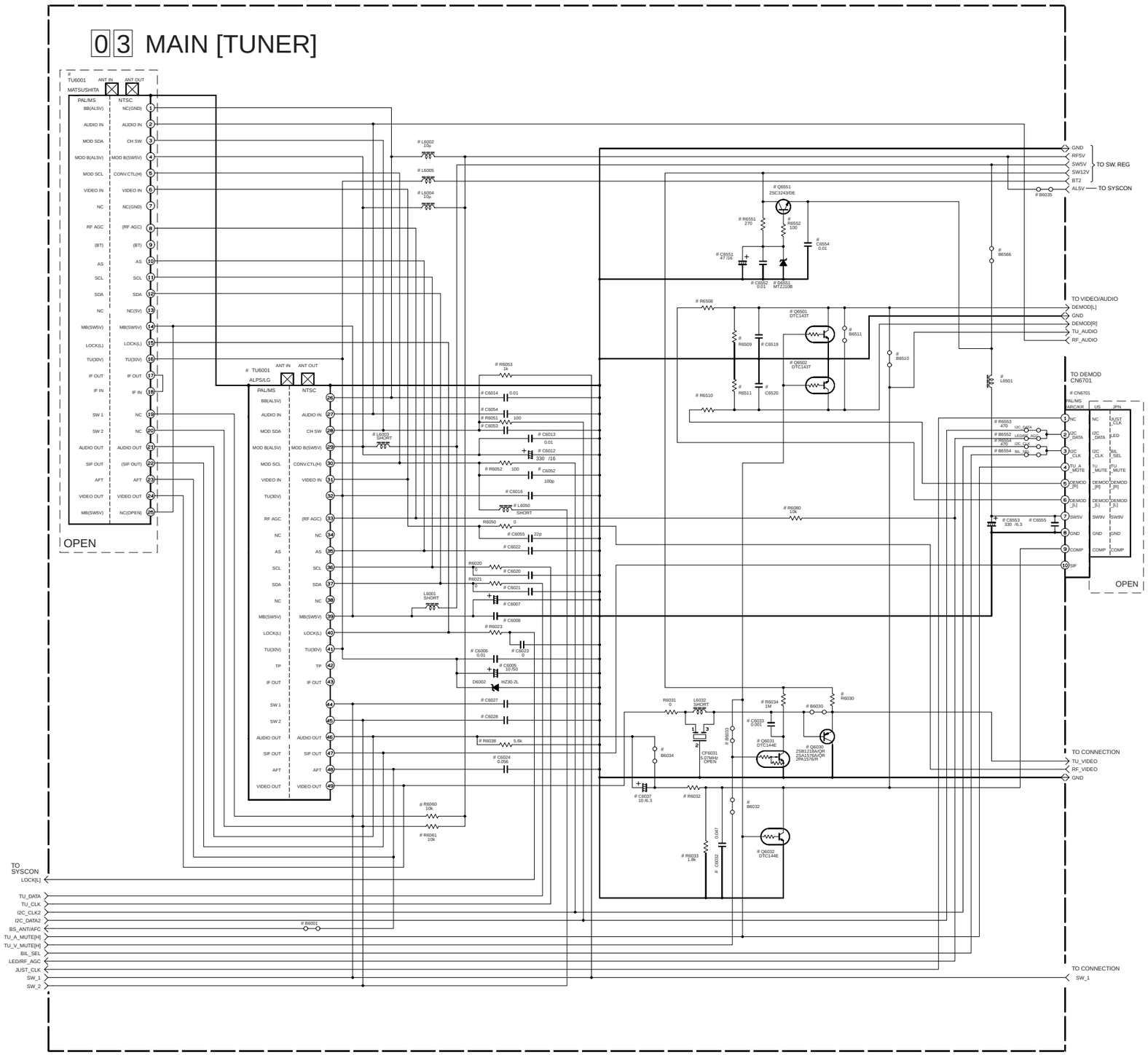
4.5 MAIN(TUNER) SCHEMATIC DIAGRAM

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.



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

○ : Used
× : Not used

DIFFERENCE TABLE

		"/02,/58"	"EK,EU"	"MS,/39"	"/55,/75"	"/50,/77"	/61	JAPAN
TUNER UNIT		ALPS GAU0209	ALPS GAU0208	LG GAU0210	MATSUSHITA GAU0236	ALPS GAU0207	MATSUSHITA GAU0238	MATSUSHITA GAU0224
RF CONVERTER								
BB (RF 5V)	"L6002,C6014"	○	○	○	○	×	×	×
AUDIO IN	C6054	×	×	×	×	×	×	×
MOD SDA/CH SW	R6051	×	○	×	○	×	×	×
	R6053	×	×	×	×	○	○	×
	C6053	×	×	×	×	×	×	×
MOD B	L6003	×	×	×	×	○	○	×
	L6004	×	○	×	○	×	×	×
	C6012	×	×	×	×	×	×	×
	C6013	×	×	×	×	×	×	×
MOD SCL/CONV.CTL	R6052	×	○	×	○	×	×	×
	C6052	×	×	×	×	×	×	×
	L6050	×	×	×	×	○	○	×
VIDEO IN	R6050	×	○	×	○	○	○	×
	C6055	×	×	×	×	×	×	×
TU (30V)	C6016	×	○	×	○	×	×	×
FRONT END								
RF AGC	R6080	○	○	○	×	×	×	×
AS	C6022	×	×	×	×	×	×	×
SCL	R6020	1k	1k	1k	1k	1k	1k	1k
	C6020	×	×	×	×	×	×	×
SDA	R6021	1k	1k	1k	1k	1k	1k	1k
	C6021	×	×	×	×	×	×	×
MB (SW5V)	L6001	10μ	10μ	10μ	10μ	SHORT	SHORT	SHORT
	C6007	×	×	×	×	×	×	×
	C6008	×	×	×	×	×	×	×
LOCK	R6023	×	×	×	×	×	×	×
TU (30V)	C6005	×	×	×	×	×	×	×
	C6006	×	×	×	×	×	×	×
IF								
SW1	R6060	○	○	○	○	×	×	×
	C6027	×	×	×	×	×	×	×
SW2	R6061	○	○	○	○	○	○	×
	C6028	×	×	×	×	×	×	×
AUDIO OUT	R6038	×	×	×	×	×	×	×
	C6037	○	○	○	○	×	×	×
	B6034	×	×	×	×	○	×	○
	R6032	3.3k	3.3k	18k	0Ω	12k	×	0Ω
	R6033	1.5k	1.5k	18k	×	×	×	×
	C6032	○	○	×	×	×	×	×
AFT	C6024	×	×	×	×	×	×	×
	B6001	○	○	○	○	○	○	×
VIDEO OUT	Q6030	○	○	○	○	○	○	○
	R6030	1k	1k	1k	1k	3.3k	3.3k	3.3k
	B6030	×	×	×	×	×	×	×
AUDIO MUTE	Q6032	○	○	○	○	×	×	×
VIDEO MUTE	Q6031	○	○	○	○	×	×	×
	R6034	×	×	×	×	×	×	×
	C6033	0Ω	0Ω	0Ω	0Ω	×	×	×
	B6032	○	○	○	○	×	×	×
	B6033	×	×	×	×	×	×	×
DEMOD REG	"R6551,R6552," "D6551,Q6551"	×	×	×	×	○	×	○
	"C6551,C6552," C6554	×	×	×	×	×	×	×
	B6566	○	○	○	○	×	○	×
	C6553	○	○	○	○	×	○	×
	C6555	×	×	×	×	×	×	×
	L6501	SHORT	SHORT	3.3μ	SHORT	×	3.3μ	×
DEMOD OUT	"R6508,R6510"	0Ω	0Ω	0Ω	0Ω	0Ω	0Ω	0Ω
	"R6509,R6511"	×	×	×	×	×	×	×
	"C6519,C6520"	×	×	×	×	×	×	×
	"Q6501,Q6502"	×	×	×	×	×	×	×
	"B6510,B6511"	×	×	×	×	×	×	×
DEMOD OPTION	R6553	○	○	○	○	0Ω	0Ω	×
	B6552	×	×	×	×	×	×	○
	R6554	○	○	○	○	0Ω	0Ω	×
	B6554	×	×	×	×	×	×	○
DEMOD UNIT	CN6701	LPA10094 -04*	LPA10094 -04*	LPA10094 -05*	LPA10094 -07*	PB11076A -*	LPA10094 -06*	PB110B7A -*
OPTION	B6035	×	×	×	×	○	○	×

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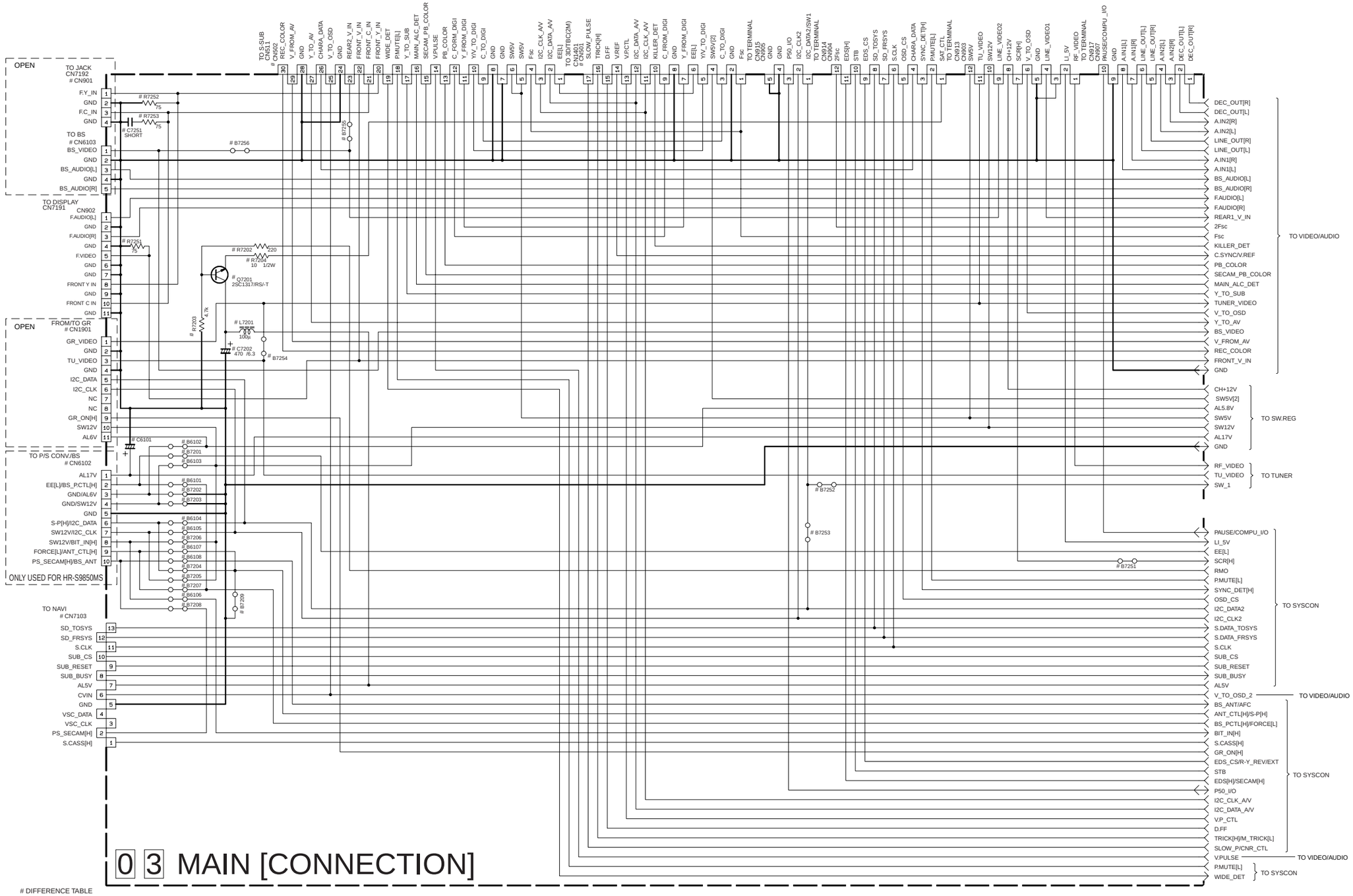
4.6 CONNECTION SCHEMATIC DIAGRAM

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.



0 3 MAIN [CONNECTION]

DIFFERENCE TABLE

○ : Used
× : Not used

	CN6102	B6101 B6108 C6101 CN6103	B7201 B7202 B7203 B7207 B7208	B7204 B7205 B7206	B7209	R7202 R7203 R7204 Q7201 L7201 C7202	B7251 B7253	B7252	B7255	B7256	CN901	R7252 R7253 C7251	R7251
VR1200/02,/58	×	×	×	×	×	○	○	×	○	×	○	○	○
HR-S9850EU/EK	×	×	×	×	×	○	○	×	○	×	○	○	○
VR1200/39	5-8pin	×	×	○	○	○	○	×	○	×	○	○	○
HR-S9850MS	1-10pin	×	○	○	×	○	○	×	○	×	○	○	○
HR-J880EU/EK/MS	×	×	×	×	×	○	○	×	×	○	×	×	○
VR1070/55,/75	×	×	×	×	×	×	×	×	×	×	○	×	×
VR820/55,/75	×	×	×	×	×	×	×	×	×	×	×	×	×
VR1070/50,/61	×	×	×	×	×	×	×	○	×	×	○	×	×
VR820/77	×	×	×	×	×	×	×	○	×	×	×	×	×
HR-VFG1	1-10pin	○	×	×	×	×	×	○	○	×	○	×	×

NAVI	CN7103
YES	○
NO	×

GR	CN1901	B7254
YES	○	×
NO	×	○

SVHS	CN501 CN502
YES	○
NO	×

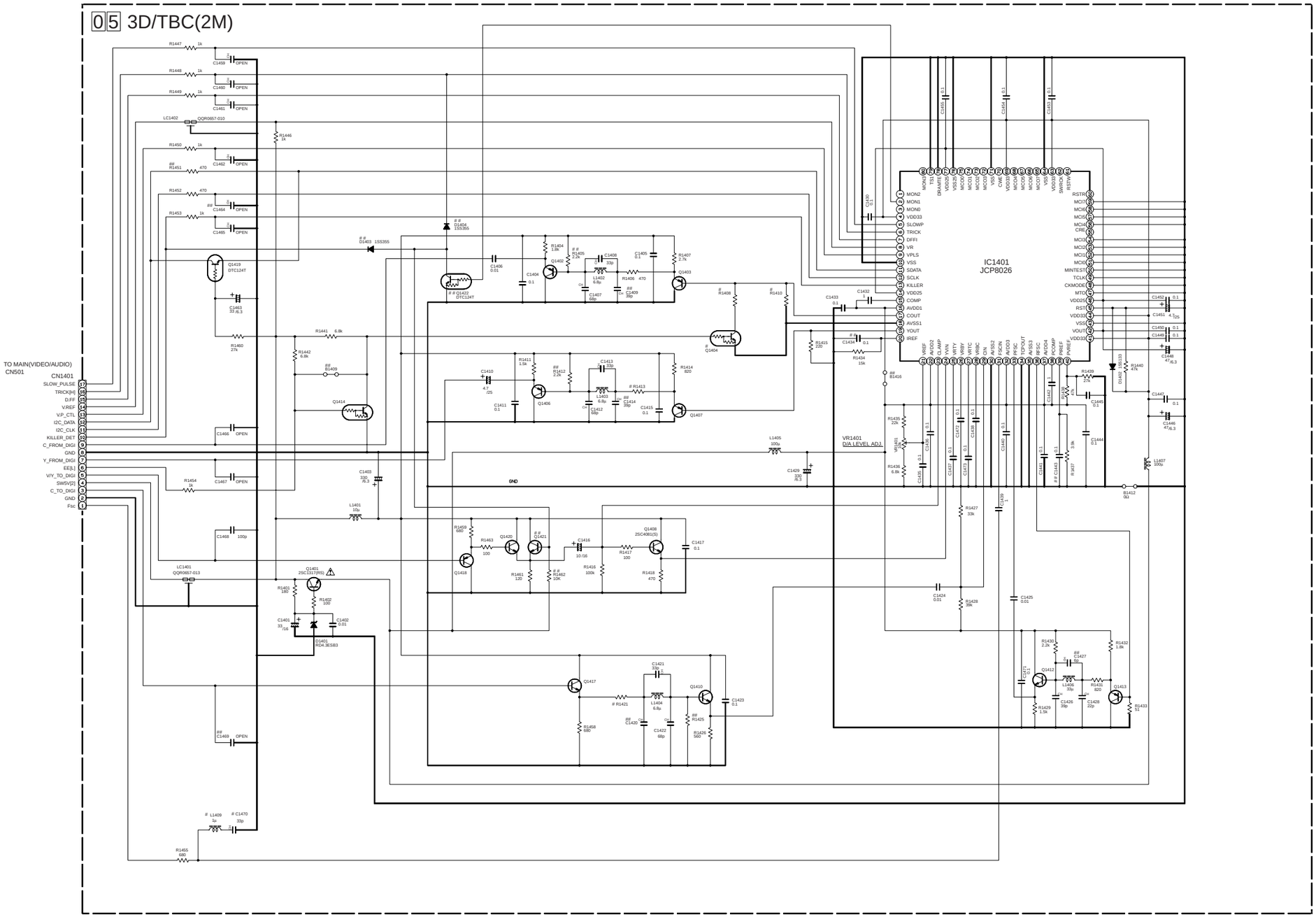
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p20220001a_rev0

4.7 3D/TBC(2M) SCHEMATIC DIAGRAM

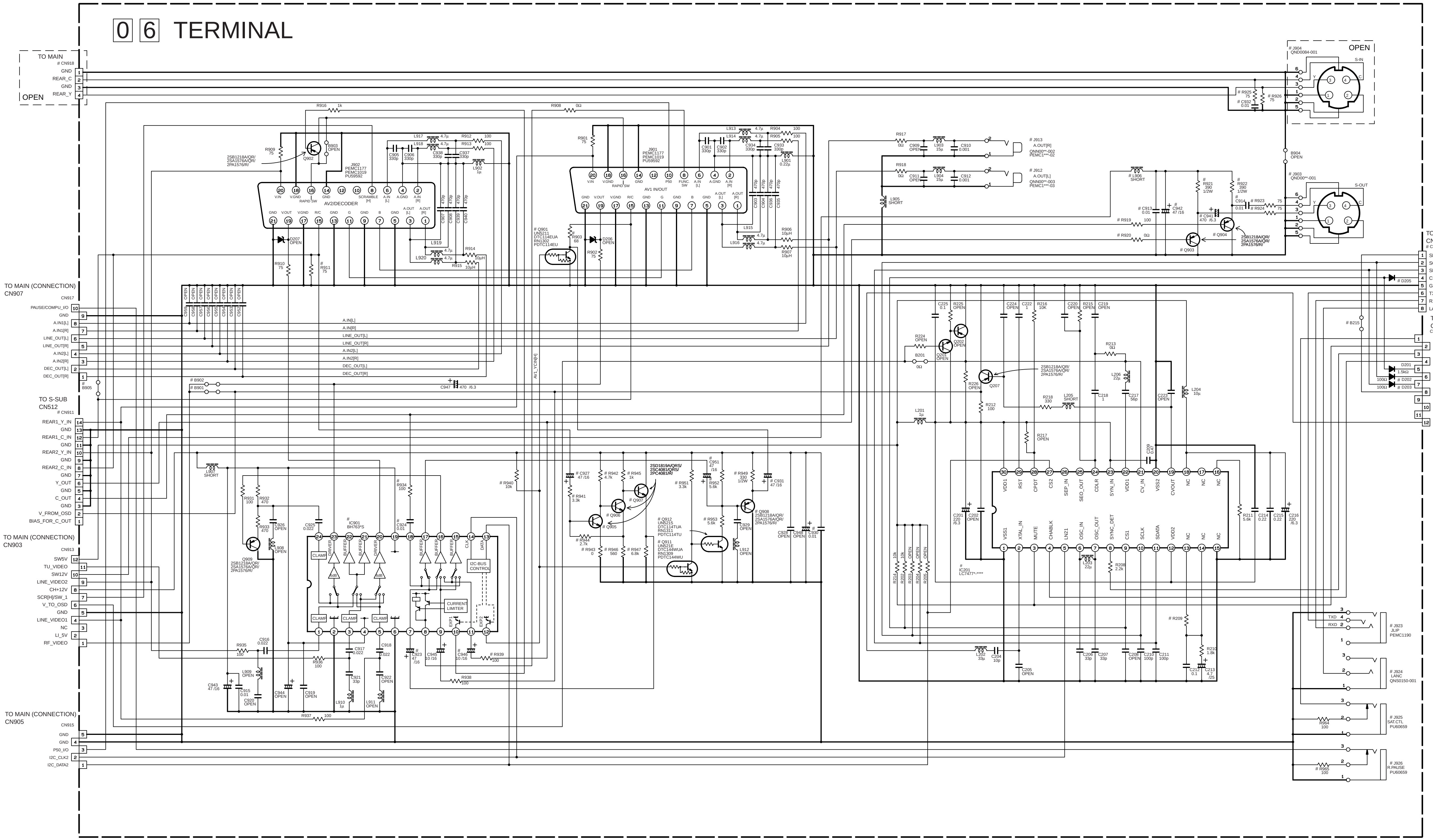
Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



p10354001a_rev0

4.8 TERMINAL 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
× : Not used

MODELS \ SYMBOLS	S-VHS: "R903,R911,R919-R924,R939-R947" "R934,R949,R951-R953,C913,C914" "C923,C924,C927,C930,C931,C941" "C942,C946,C951,Q901,Q903-Q908" "Q911,Q912,L906,J903,B902,CN911"	S-VHS: B901 B905	S IN: J904 R925 R926 C932 CN918	OSD LANGUAGE: IC201	OSD LANGUAGE: R209	NAVIGATION: D202 D203	NAVIGATION: D205 CN912	NAVIGATION: B215	S OUT: J903	A.OUT: J912 J913	JLIP: J923	LANC: J924	SAT.CTL.: J925	R.PAUSE: J926 R965	CH+IC: IC901
V13S36 EU/EK	O	×	×	6-9791	12k	×	O	×	85	21/126	O	O	O	O	6
V13S36 MS	O	×	×	5-9750	5.1k	×	O	×	85	21/126	O	O	O	O	6
V13S26 EU(PHILIPS)	O	×	×	6-9791	12k	×	O	×	84	23/009	×	O	×	O	6
V13S25 EU/EK	O	×	×	6-9791	12k	×	O	×	84	23/009	O	O	O	O	6
V13S25 MS	O	×	×	5-9750	5.1k	×	O	×	84	23/009	O	O	O	O	6
"V13S2/S22 EU/EK,S21 EU"	O	×	×	6-9791	12k	O	×	×	84	23/009	×	×	O	O	6
V13S2 EU/EK(PHILIPS)	O	×	×	5-9750	5.1k	O	×	×	84	23/009	×	×	×	O	6
V13S2 MS	O	×	×	5-9750	5.1k	O	×	×	84	23/009	×	×	O	O	6
V13S2 MS(PHILIPS)	O	×	×	5-9750	5.1k	O	×	×	84	23/009	×	×	×	O	6
"V13S1 EU/EK,S11EU,S12EK"	O	×	×	6-9791	12k	O	×	×	84	23/009	×	×	O	×	6
V13S1 MS	O	×	×	5-9750	5.1k	O	×	×	84	23/009	×	×	O	×	6
V13D2 EU/EK	×	O	×	6-9791	12k	×	O	×	×	23/009	O	O	O	O	5
V13D2 MS	×	O	×	5-9750	5.1k	×	O	×	×	23/009	O	O	O	O	5
HR-S9850EU/EK	O	×	×	5-9750	5.1k	×	O	×	84	23/009	O	O	O	O	6
HR-S9850MS	O	×	×	5-9750	5.1k	×	O	×	84	23/009	O	O	O	O	6

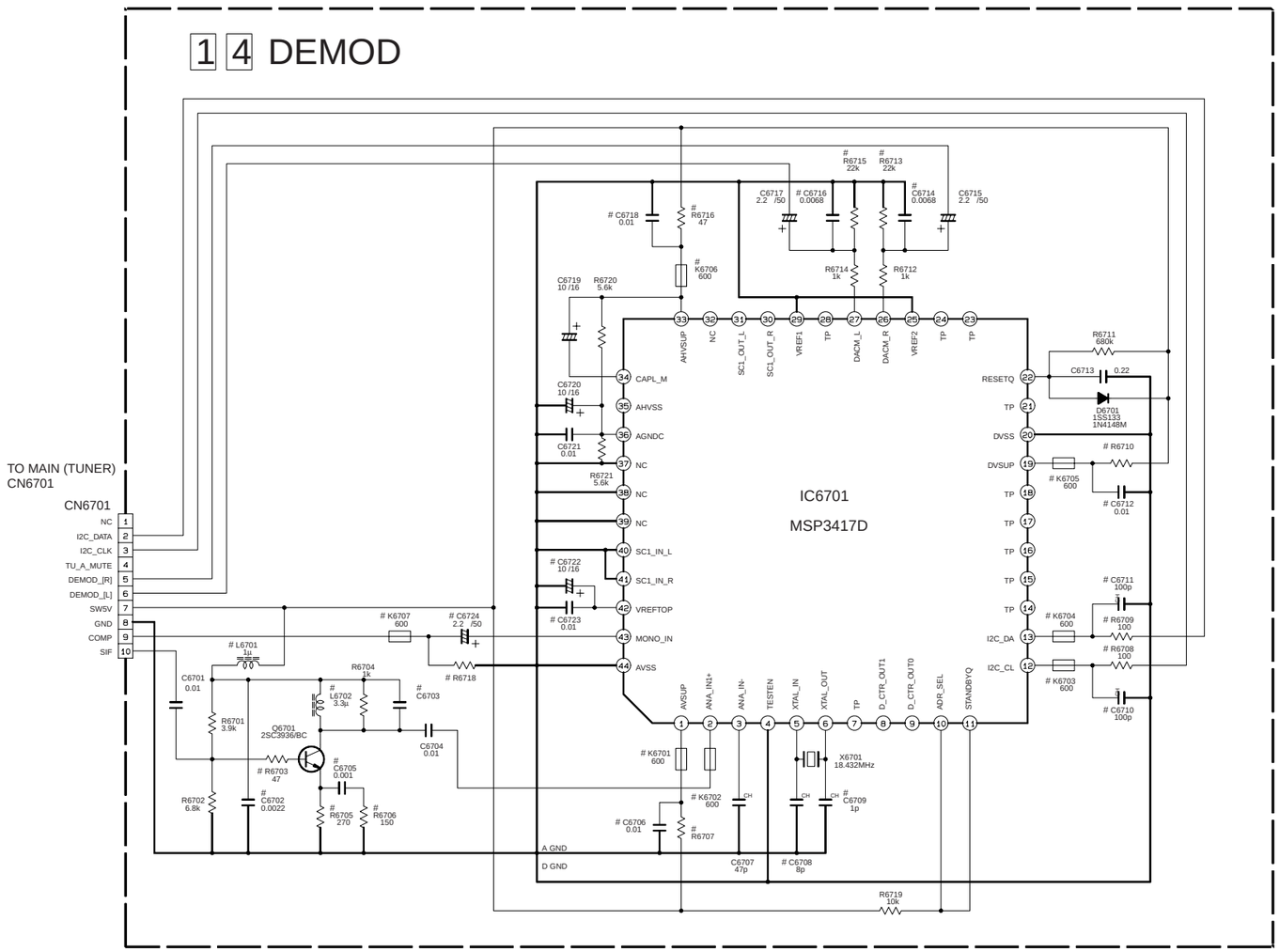
NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

- ELECTROLYTIC
- CERAMIC
- MY: MYLER
- N: NON POLAR

LAST NO			VACANT NO	
R	226	965	"201,206,207,219-223"	"927-930,948,950,954-963"
C	225	959	"203,221"	"949,950"
D	207	—	204	
Q	207	912	203-206	910
L	206	920		
B	215	905	202-214	
J	—	926		"905-911,914-922"
IC	201	901		
CN	—	918		"901-910,916"

4.9 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.



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

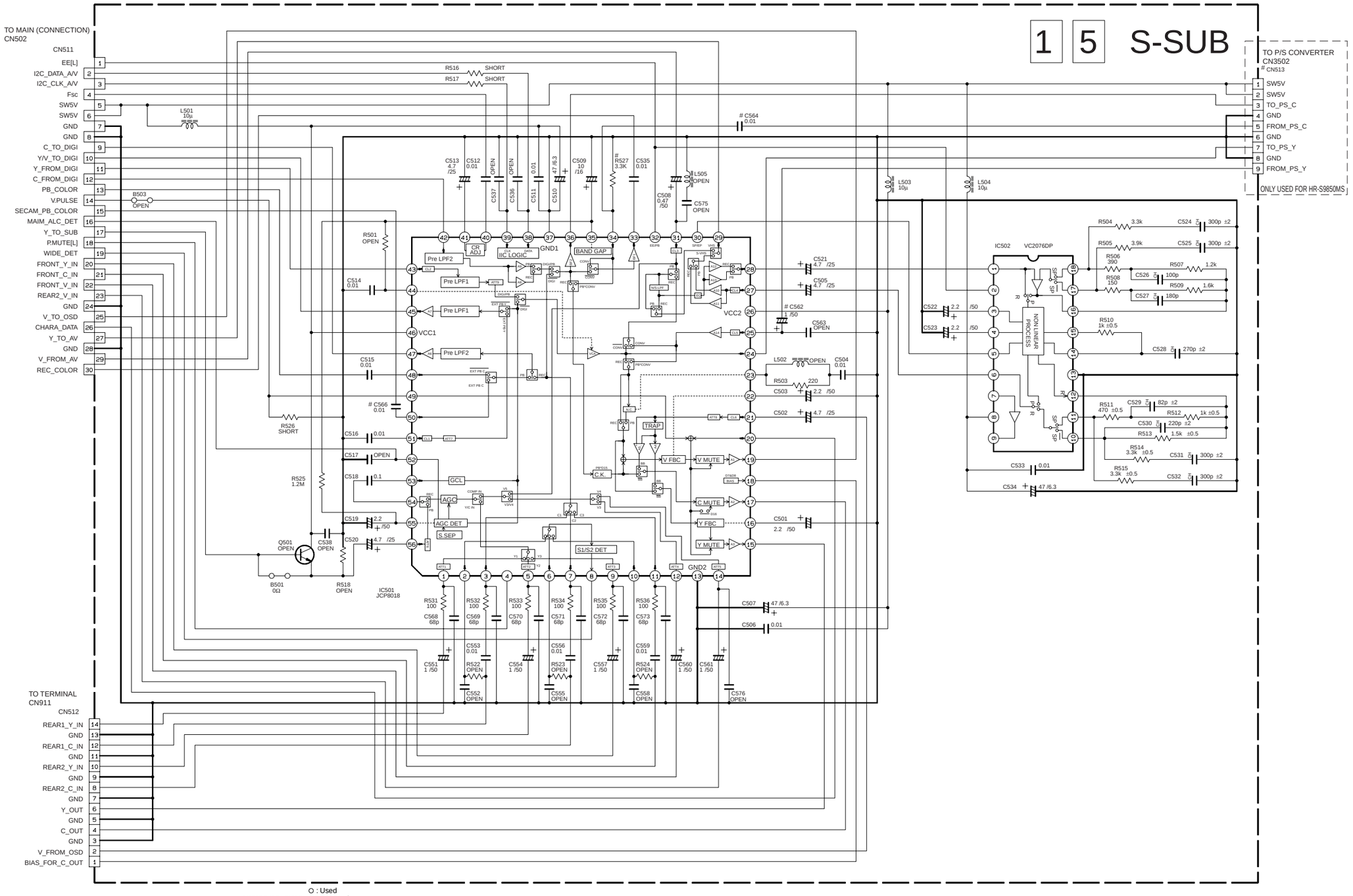
DIFFERENCE TABLE ○ : Used × : Not used

		V13			V14				
		FRANCE MS	EU/EK	ARC	EU/EK	FRANCE MS	KOREA	ARC 4SYSTEM	ARC 3SYSTEM
DEMOD PWB 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	×	100	×	100	×	×
	C6702	0.0022	0.0022	0.0022	×	×	×	×	×
	C6703	×	×	220p	×	×	×	220p	180p
	C6705	0.001	0.001	×	0.001	×	0.001	×	×
	L6701	1μ	1μ	1μ	SHORT	SHORT	SHORT	SHORT	SHORT
	L6702	3.3μ	3.3μ	3.3μ	3.3μ	×	3.3μ	3.3μ	3.3μ
MONO IN	K6707	FE 600	×	×	×	FE 600	×	×	×
	C6724	0.22/50	×	×	×	0.22/50	×	×	×
	R6718	×	×	×	×	×	×	×	×
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	×	×	×	×	×	×	×	×
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
	C6706	×	×	×	×	×	×	×	×
DIGITAL Vcc	R6710	10	12	12	FE 600	FE 600	FE 600	FE 600	FE 600
	K6705	FE 600	FE 600	FE 600	10	10	10	10	10
	C6712	×	×	×	×	×	×	×	×
DAC Vcc	R6716	47	47	47	FE 600	FE 600	FE 600	FE 600	FE 600
	K6706	FE 600	FE 600	FE 600	47	47	47	47	47
	C6718	×	×	×	×	×	×	×	×
X'TAL	C6708	8p	8p	8p	7p	7p	7p	7p	7p
	C6709	1p	1p	1p	3p	3p	3p	3p	3p
DAC OUT	R6713,R6715	×	×	×	×	×	×	×	×
	C6714,C6716	0.0068	0.0068	0.0068	0.0022	0.0068	0.0022	0.0022	0.0022
VREF	C6722	×	×	×	×	×	×	×	×
	C6723	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01

p20162001a_rev3

4.10 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	CN513 C562 C564 C566	R527
MS	○	×
OTHERS	×	○

○ : Used
× : Not used

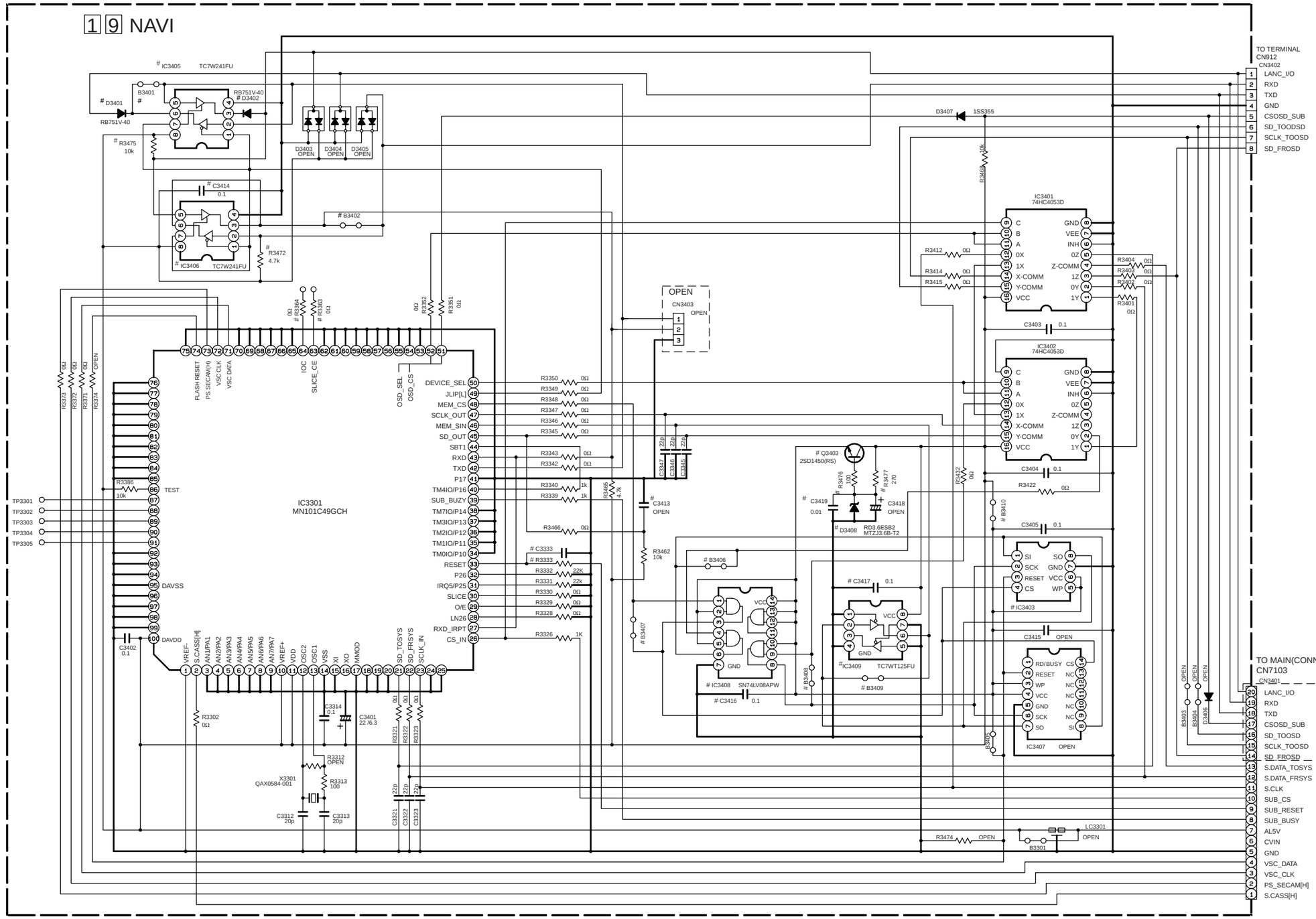
NOTES : UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p20222001a_rev0

4.11 NAVIGATION 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 ○: Used ×: Not used

IC3403	AT45D011-SC	AT45DB011-SC
IC3408 IC3409 Q3403 D3408 R3476 R3477 C3416 C3417 C3419	×	○
B3406-B3410		×
R3333	1k	330
C3333	0.1μF	4.7kΩ

LANC	WITH LANC	WITHOUT LANC
IC3405,C3414 IC3406,D3402 R3472,R3475	○	×

JLIP	WITH JLIP	WITH JLIP WITHOUT LANC
D3401	○	○
B3401 B3402	×	○

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

p20167002a_rev0.1

4.12 SW/DISPLAY, REC SAFETY, JACK AND ADV.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.*

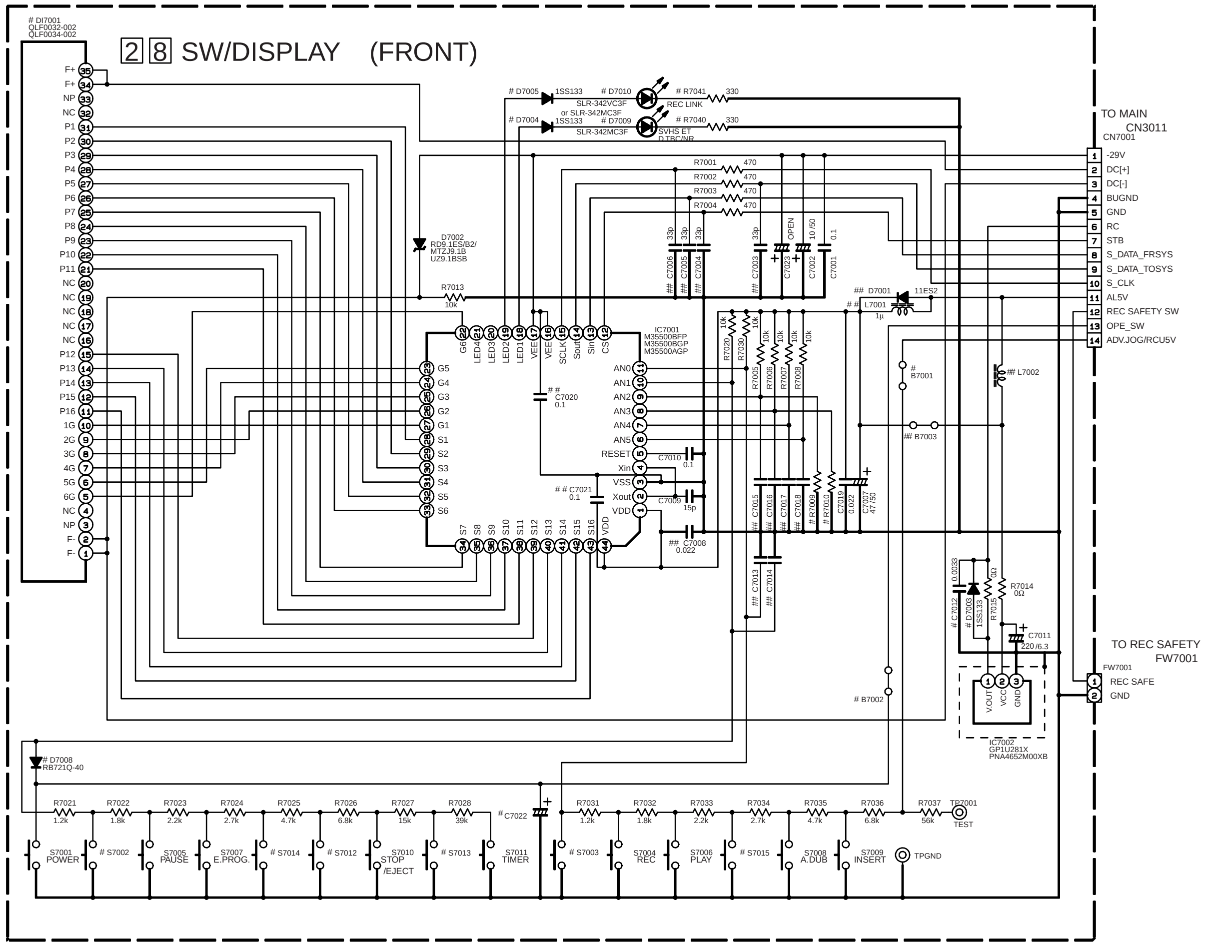
5

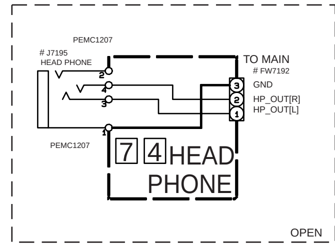
4

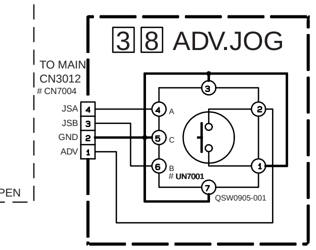
3

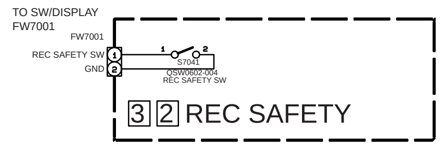
2

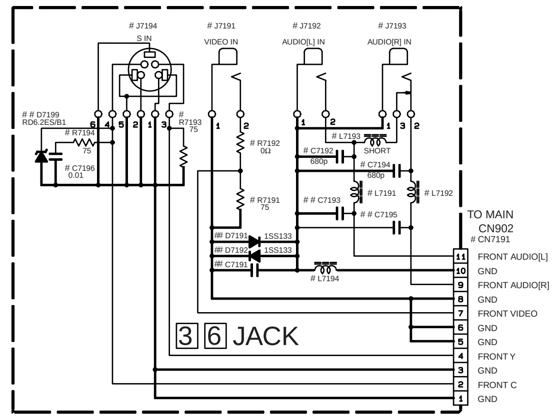
1











DIFFERENCE TABLE ○: Used ×: Not used

	FDP	OPTION								IR DETECT		LED		DISP OFF		ADV.JOG	HEAD PHONE	FRONT RCA INPUT					FRONT RCA IN/CE			FRONT S INPUT			
	DI7001	S7002	S7003	S7012	S7013	S7014	S7015	R7009	R7010	R7015	C7012 D7003	D7005 D7010 R7041	D7004 D7009 R7040	B7002 D7008	C7022	UN7001 CN7004 B7001	FW7192 J7195	CN7191	R7191	J7191	J7192	J7193	L7191 L7192	L7193 L7194	C7192 C7194	R7194	R7193	C7196	J7194
V14D25 EU/EK/MS	32or34	MARK	ERASE	DISPLAY	SAT TIMER	C.RESET	SYN.EDIT	×	×	○	×	○	×	×	×	○	×	7-11PIN	×	418-004	418-003	419-002	100	SHORT	○	×	×	×	×
V14S35 EU/EK/MS	32or34	MARK	ERASE	SVHS ET	SAT TIMER	C.RESET	SYN.EDIT	×	×	○	×	○	○	×	×	○	×	1-11PIN	×	371-004	371-003	372-002	100	SHORT	○	×	×	×	085-001
V14S78 D	32or34	CH-	CH+	TBC 3D	BS TIMER	SP/EP/SEP	HEAD PH.	×	×	○	×	○	○	○	×	○	○	1-11PIN	○	371-004	371-003	372-002	SHORT	SHORT	×	○	○	○	085-001

DIFFERENCE TABLE

					ESD			CE			
	D7001	C7003 C7004 C7005 C7006	C7013 C7014	C7015 C7016 C7017 C7018	C7008 C7020 C7021	D7191 D7192 C7191	D7199	C7193 C7195	L7001	L7002	B7003
V14D25 EU/EK/MS	×	×	×	×	×	×	×	×	○	×	○
V14S35 EU/EK/MS	×	×	×	×	×	×	×	×	○	×	×
V14S78 D	×	×	×	×	×	×	○	×	SHORT	SHORT	×

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

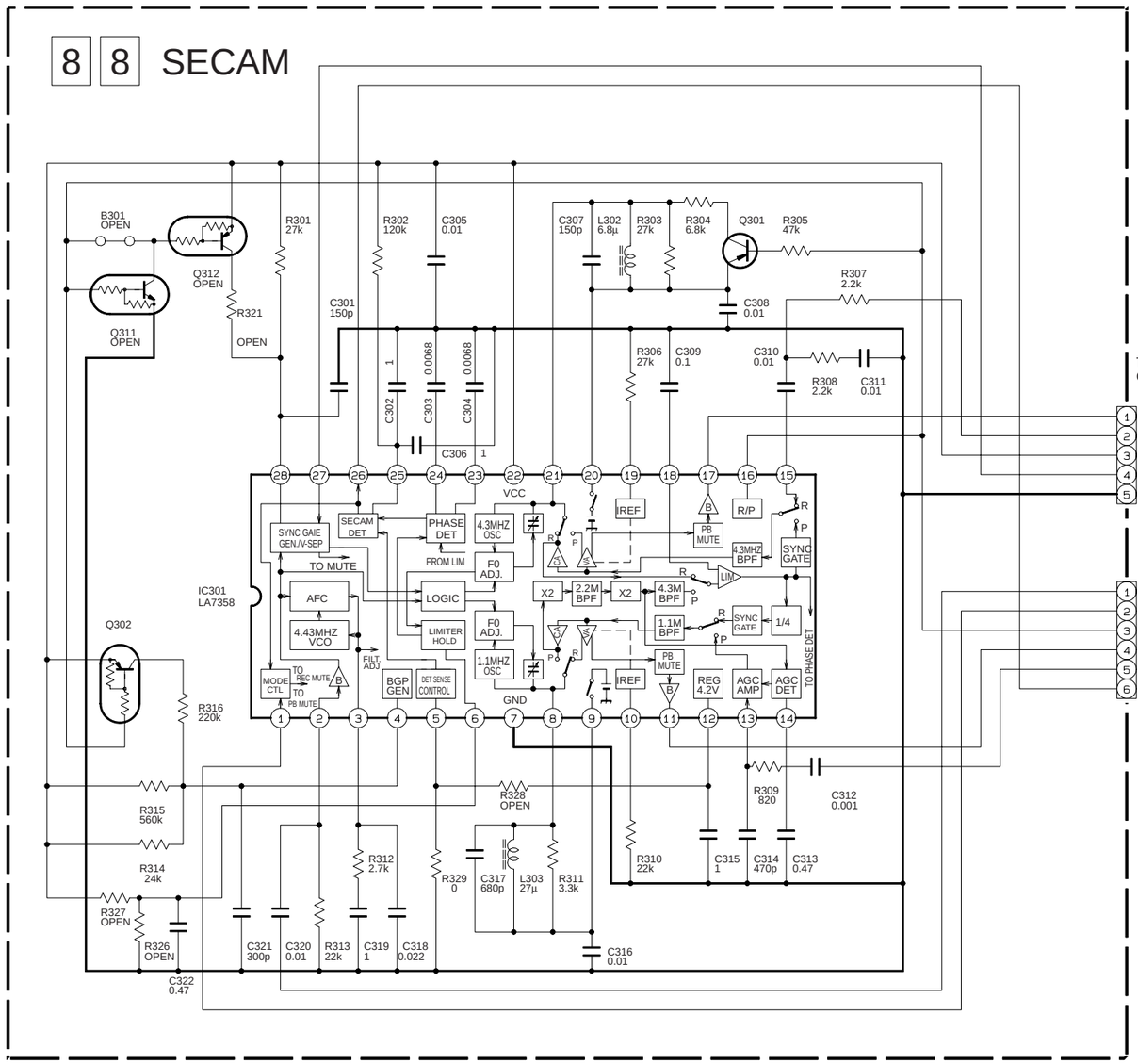
LAST NO		VACANT NO
R	7194	7011, 7012, 7016-7019, 7029, 7038, 7039, 7042-7190,
C	7196	7024-7190,
D	7199	7006, 7007, 7011-7190, 7193-7198
J	7195	
L	7194	7003-7190,
S	7041	7016-7040,
B	7003	

p10367001a_rev0

A B C D E F G H

4.13 SECAM SCHEMATIC DIAGRAM
[Only used for HR-S9850MS]

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.

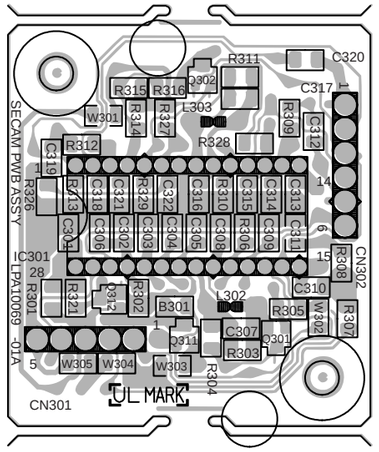


NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

4.14 SECAM CIRCUIT BOARD
[Only used for HR-S9850MS]

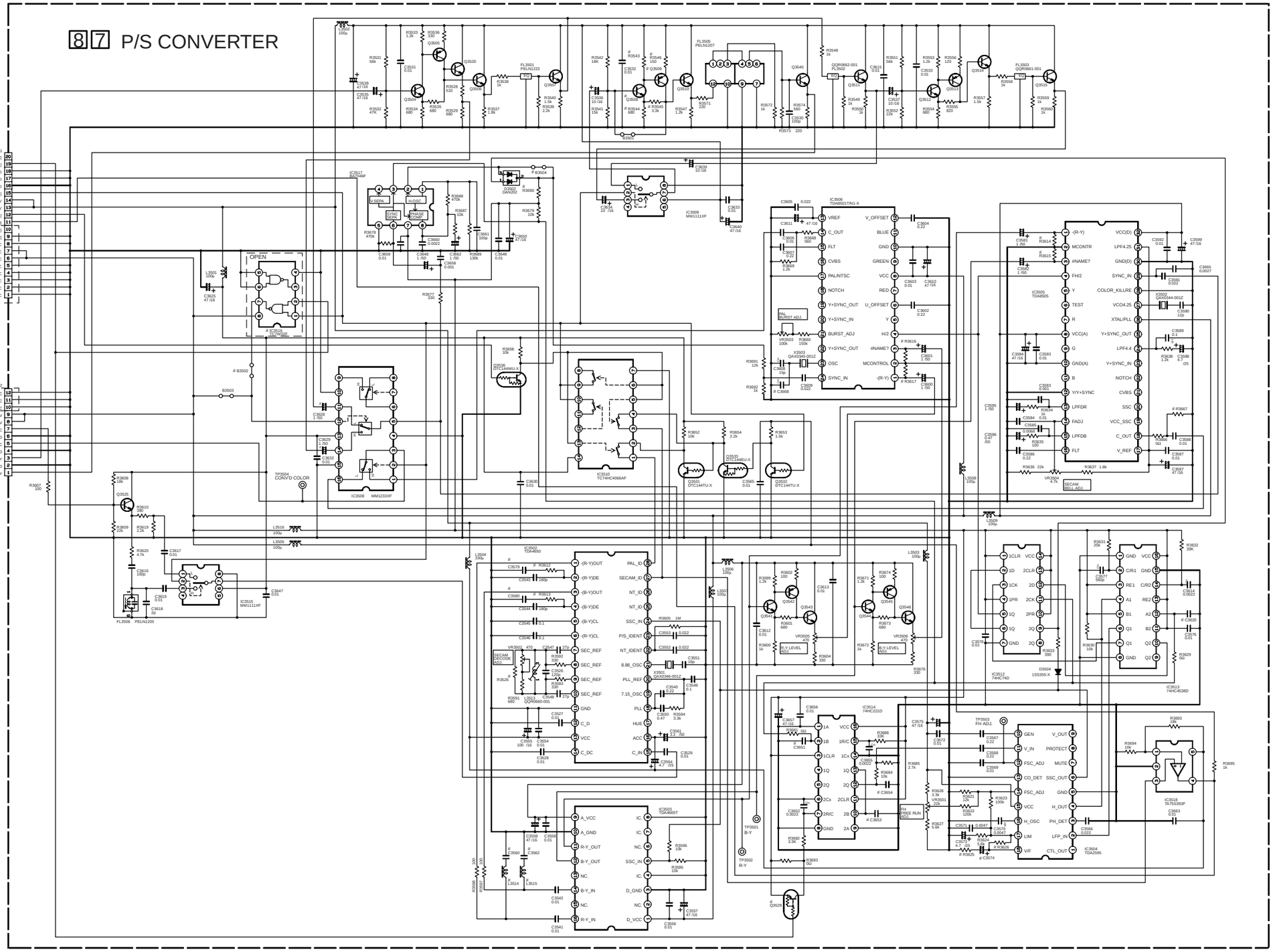
<88> SECAM
LPB10069-001A



p30054001a_rev0

4.15 P/S CONVERTER SCHEMATIC DIAGRAMS
[Only used for HR-S9850MS]

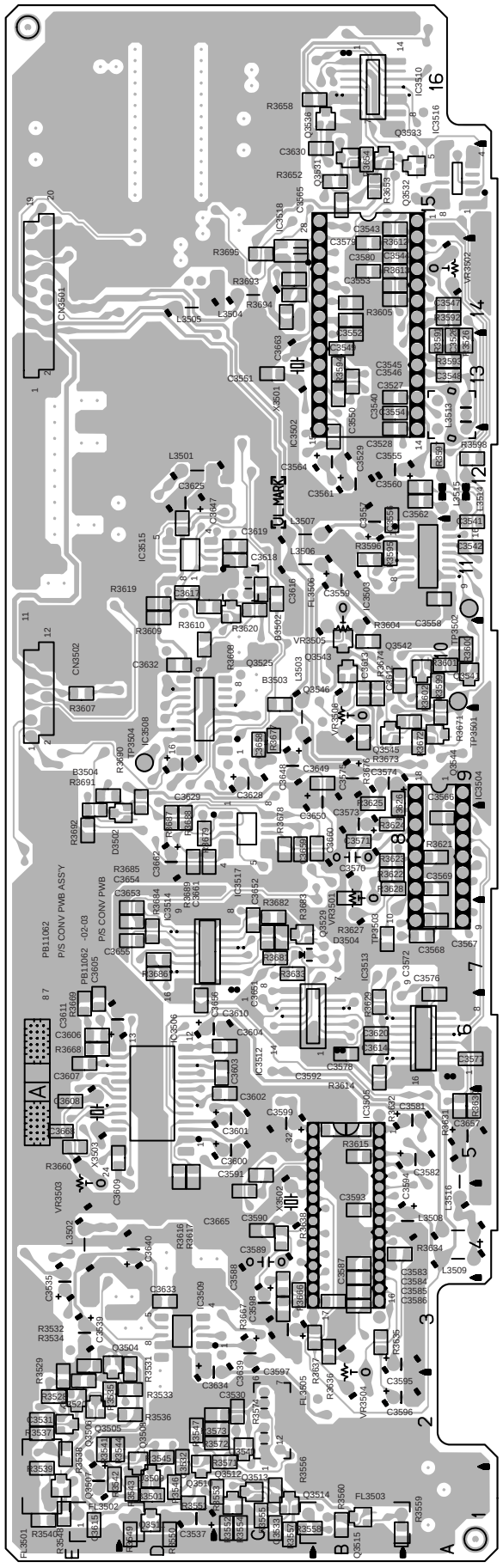
Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



p10206001a_rev0

4.16 P/S CONVERTER CIRCUIT BOARD
[Only used for HR-S9850MS]

<87> P/S CONVERTER
PB11062-02-03



COMPONENT PARTS LOCATION GUIDE <P/S CONVERTER>

REF.NO.	LOCATION		
CAPACITOR			
C3521	A	D	16C
C3522	A	D	15C
C3523	A	D	15D
C3524	A	D	16E
C3525	A	D	14D
C3526	B	C	13A
C3527	B	C	13B
C3528	B	C	12B
C3529	B	C	12B
C3530	B	C	2C
C3531	B	C	2E
C3532	B	C	2D
C3533	B	C	1C
C3535	A	D	3E
C3536	A	D	1E
C3537	A	D	1D
C3538	A	D	2D
C3539	A	D	3E
C3540	B	C	13B
C3541	B	C	12A
C3542	B	C	11A
C3543	B	C	15B
C3544	B	C	14B
C3545	B	C	14B
C3546	B	C	14B
C3547	B	C	14A
C3548	B	C	13A
C3549	B	C	13B
C3550	B	C	13B
C3551	B	C	13C
C3552	B	C	13B
C3553	B	C	14B
C3554	B	C	13B
C3555	A	D	12B
C3556	B	C	12B
C3557	A	D	11B
C3558	B	C	11A
C3559	A	D	11B
C3560	B	C	12A
C3561	A	D	12B
C3562	B	C	12A
C3564	A	D	12B
C3565	B	C	15B
C3566	B	C	8A
C3567	B	C	7A
C3568	B	C	7A
C3569	B	C	8A
C3570	A	D	8B
C3571	B	C	8B
C3572	B	C	7B
C3573	A	D	8B
C3574	A	D	9B
C3575	A	D	9B
C3576	B	C	7A
C3577	B	C	6A
C3578	B	C	6B
C3579	B	C	14B
C3580	B	C	14B
C3581	A	D	5A
C3582	A	D	5A
C3583	B	C	4B
C3584	A	D	4B
C3585	B	C	3B
C3586	B	C	3B
C3587	B	C	3B
C3588	B	C	3C
C3589	A	D	4C
C3590	B	C	4C
C3591	B	C	5C
C3592	B	C	5B
C3593	B	C	4B
C3594	A	D	4A
C3595	A	D	3B
C3596	A	D	2B
C3597	A	D	3C
C3598	A	D	3C
C3599	A	D	5C
C3600	A	D	5C
C3601	A	D	5C
C3602	B	C	5C
C3603	B	C	6C
C3604	B	C	6C
C3605	B	C	6E
C3606	B	C	6E
C3607	B	C	6E
C3608	B	C	5E
C3609	B	C	5E
C3610	A	D	6D
C3611	A	D	6E
C3612	B	C	10B
C3613	B	C	10B
C3614	B	C	6B
C3615	B	C	1E
C3616	B	C	11C
C3617	B	C	11D
C3618	B	C	11C
C3619	B	C	11C
C3620	B	C	6B
C3625	A	D	12D
C3626	A	D	10C
C3627	A	D	10C
C3628	A	D	9C
C3629	A	D	9D
C3630	B	C	15B
C3632	B	C	10D
C3633	B	C	3D
C3634	A	D	3D
C3635	A	D	4D
C3636	A	D	4D
C3637	A	D	3D
C3638	A	D	3D
C3639	A	D	3C
C3640	A	D	4D
C3643	A	D	11E
C3644	A	D	13E
C3645	A	D	11E
C3646	A	D	12E
C3647	B	C	11D
C3648	A	D	9C
C3649	B	C	9B
C3650	A	D	9B
C3651	B	C	7C
C3652	B	C	7C
C3653	B	C	7D
C3654	B	C	7D
C3655	B	C	7D
C3656	B	C	6D
C3657	A	D	5A
C3658	B	C	9C
C3659	B	C	8C
C3660	B	C	8B
C3661	B	C	8D
C3662	A	D	8D
C3663	B	C	14C
C3665	B	C	4C
C3668	B	C	5E
CONECTOR			
CN3501	A	D	13E
CN3502	A	D	9E
DIODE			
D3502	B	C	8D
D3504	B	C	7C
IC			
IC3501	A	D	17D
IC3502	A	D	15A
IC3503	B	C	11A
IC3504	A	D	9A
IC3505	A	D	5B
IC3506	B	C	5D
IC3508	B	C	10D
IC3509	B	C	3D
IC3510	B	C	16B
IC3511	A	D	11E
IC3512	B	C	6B
IC3513	B	C	6A
IC3514	B	C	7D
IC3515	B	C	11D
IC3516	B	C	15A
IC3517	B	C	8C
IC3518	B	C	14C
COIL			
L3501	A	D	12D
L3502	A	D	4E
L3503	A	D	9C
L3504	A	D	14C
L3505	A	D	14D
L3506	A	D	11C
L3507	A	D	11C
L3508	A	D	4A
L3509	A	D	4A
L3510	A	D	12E
L3511	A	D	16C
L3512	A	D	16E
L3513	A	D	13A
L3514	A	D	12A
L3515	A	D	12A
L3516	A	D	5A
TRANSISTOR			
Q3504	B	C	3E
Q3505	B	C	2E
Q3506	B	C	2E
Q3507	B	C	1E
Q3508	B	C	2D
Q3509	B	C	1D
Q3510	B	C	2D
Q3511	B	C	1D
Q3512	B	C	1C
Q3513	B	C	1C
Q3514	B	C	1C
Q3515	B	C	1B
Q3520	B	C	2E
Q3525	B	C	11C
Q3529	B	C	7C
Q3531	B	C	15B
Q3532	B	C	15A
Q3533	B	C	15B
Q3536	B	C	16B
Q3540	B	C	2C
Q3541	B	C	10A
Q3542	B	C	10A
Q3543	B	C	10B
Q3544	B	C	9A
Q3545	B	C	9B
Q3546	B	C	10B
RESISTOR			
R3526	B	C	13A
R3528	B	C	2E
R3529	B	C	2E
R3531	B	C	3D
R3532	B	C	3E
R3533	B	C	2D
R3534	B	C	2E
R3535	B	C	2E
R3536	B	C	2D
R3537	B	C	2E
R3538	B	C	2E
R3539	B	C	1E
R3540	B	C	1E
R3541	B	C	2E
R3542	B	C	1E
R3543	B	C	1D
R3544	B	C	2E
R3545	B	C	2D
R3546	B	C	1D
R3547	B	C	2D
R3548	B	C	1E
R3549	B	C	1D
R3550	B	C	1D
R3551	B	C	1D
R3552	B	C	1C
R3553	B	C	1C
R3554	B	C	1C
R3555	B	C	1C
R3556	B	C	1C
R3557	B	C	1C
R3558	B	C	1B
R3559	B	C	1B
R3560	B	C	1B
R3571	B	C	2C
R3572	B	C	2C
R3573	B	C	2C
R3574	B	C	2C
R3591	B	C	13A
R3592	B	C	14A
R3593	B	C	13A
R3594	B	C	13B
R3595	B	C	11B
R3596	B	C	11B
R3597	B	C	12A
R3598	B	C	12A
R3599	B	C	10A
R3600	B	C	10A
R3601	B	C	10A
R3602	B	C	10A
R3604	B	C	10B
R3605	B	C	14B
R3607	B	C	10E
R3608	B	C	10D
R3609	B	C	10D
R3610	B	C	11D
R3612	B	C	14B
R3613	B	C	14B
R3614	B	C	5B
R3615	B	C	5B
R3616	B	C	5D
R3617	B	C	5D
R3619	B	C	11D
R3620	B	C	11C
R3621	B	C	8A
R3622	B	C	8B
R3623	B	C	8B
R3624	B	C	8B
R3625	B	C	9B
R3626	B	C	9B
R3627	B	C	8B
R3628	B	C	8B
R3629	B	C	6B
R3630	B	C	5A
R3631	B	C	5A
R3632	B	C	6B
R3633	B	C	7C
R3634	B	C	4B
R3635	B	C	3B
R3636	B	C	3B
R3637	B	C	3B
R3638	B	C	4C
R3652	B	C	15B
R3653	B	C	15B
R3654	B	C	15B
R3658	B	C	16B
R3660	B	C	5E
R3666	B	C	3C
R3667	B	C	3C
R3668	B	C	6E
R3669	B	C	6E
R3671	B	C	9A
R3672	B	C	9A
R3673	B	C	9A
R3674	B	C	10B
R3676	B	C	9B
R3677	B	C	9C
R3678	B	C	8C
R3679	B	C	8D
R3681	B	C	7C
R3682	B	C	7C
R3683	B	C	7C
R3684	B	C	7D
R3685	B	C	7D
R3686	B	C	7D
R3687	B	C	8D
R3688	B	C	8D
R3689	B	C	8D
R3690	B	C	9D
R3691	B	C	8E
R3692	B	C	8E
R3693	B	C	14C
R3694	B	C	14C
R3695	B	C	14C
TEST POINT			
TP3501	A	D	10A
TP3502	A	D	11A
TP3503	B	C	7B
TP3504	A	D	9D
OTHER			
FL3501	A	D	2E
FL3502	A	D	1E
FL3503	A	D	1C
FL3504	A	D	1A
FL3505	A	D	2C
FL3506	A	D	11C
PC016	B	C	7D
PC017	B	C	6B
PC018	B	C	6A
PC019	B	C	16B
VR3501	A	D	8B
VR3502	A	D	14A
VR3503	A	D	5E
VR3504	A	D	3B
VR3505	A	D	10B
VR3506	A	D	9B
X3501	A	D	13C
X3502	A	D	4C
X3503	A	D	5E

COMPONENT PARTS LOCATION GUIDE <MAIN>

REF.NO.	LOCATION		
CAPACITOR			
C1	B	C	14I
C2	B	C	14I
C3	B	C	14I
C4	B	C	15J
C5	A	D	13J
C6	B	C	12K
C7	B	C	14J
C8	B	C	15J
C9	A	D	14M
C10	B	C	14L
C11	B	C	15L
C12	B	C	15L
C13	B	C	15L
C14	B	C	15L
C15	B	C	14M
C16	B	C	14M
C17	A	D	12M
C18	A	D	13M
C19	A	D	13M
C20	A	D	13M
C21	B	C	12M
C22	A	D	12M
C23	B	C	12M
C24	B	C	12N
C25	B	C	11M
C26	B	C	11N
C27	B	C	11N
C28	A	D	11M
C29	B	C	11N
C30	B	C	11N
C31	A	D	11N
C32	A	D	11M
C33	A	D	9N
C34	B	C	9N
C35	B	C	10M
C36	A	D	10N
C37	B	C	10M
C38	A	D	9M
C39	B	C	10M
C40	A	D	9M
C41	B	C	8M
C42	B	C	7M
C44	B	C	13G
C45	A	D	10L
C51	A	D	16N
C52	A	D	13M
C53	B	C	8N
C54	B	C	8N
C55	B	C	10N
C56	B	C	9N
C59	B	C	14L
C60	A	D	14H
C61	B	C	13L
C62	B	C	15M
C63	B	C	16M
C64	B	C	11O
C65	A	D	13K
C69	B	C	13H
C70	B	C	13H
C71	B	C	14G
C72	B	C	15G
C73	B	C	15H
C74	B	C	14H
C75	B	C	15G
C76	B	C	15H
C77	B	C	16H
C78	B	C	16H
C79	B	C	12N
C80	B	C	12N
C81	B	C	13N
C84	B	C	15L
C91	B	C	12L
C92	B	C	12N
C93	B	C	14G
C94	B	C	12O
C95	B	C	12O
C96	B	C	10O
C98	A	D	13M
C103	B	C	15G
C104	B	C	12O
C105	B	C	12O
C106	B	C	15M
C107	B	C	18H
C108	B	C	11O
C109	B	C	15M
C110	B	C	15M
C112	B	C	11N
C114	B	C	11O
C120	A	D	10M
C136	B	C	14M
C145	B	C	14N
C146	B	C	11N
C401	B	C	16I
C402	B	C	16J
C403	B	C	16K
C404	B	C	16J
C405	B	C	16I
C406	B	C	16J
C407	B	C	16J
C409	A	D	16J
C2001	A	D	8L
C2002	A	D	10K
C2003	A	D	12J
C2004	B	C	12J
C2005	A	D	14J
C2006	B	C	13J
C2007	A	D	14J
C2008	A	D	13K
C2009	B	C	14K
C2010	B	C	13K
C2011	A	D	14K
C2012	A	D	13L
C2013	B	C	13K
C2016	B	C	13K
C2017	A	D	14J
C2021	B	C	14K
C2051	B	C	18K
C2052	A	D	7K
C2053	B	C	6K
C2054	B	C	7K
C2055	A	D	6K
C2061	A	D	21F
C2062	B	C	21F
C2063	B	C	21F
C2064	A	D	21G
C2201	B	C	9M
C2202	B	C	10L
C2203	A	D	8M
C2204	A	D	9N
C2205	A	D	8M
C2206	A	D	9M
C2207	A	D	8M
C2208	A	D	9L
C2209	A	D	9L
C2210	A	D	10K
C2211	A	D	8L
C2212	A	D	8L
C2213	A	D	9K
C2214	A	D	8K
C2215	A	D	10K
C2216	A	D	10J
C2217	A	D	10J
C2218	A	D	11J
C2219	A	D	10J
C2220	A	D	10I
C2221	B	C	11I
C2222	A	D	11I
C2223	A	D	11I
C2224	B	C	11J
C2225	A	D	11I
C2226	A	D	11J
C2227	B	C	12I
C2228	B	C	9H
C2229	B	C	10K
C2230	B	C	10J
C2231	B	C	9M
C2232	A	D	9K
C2233	A	D	9J
C2234	A	D	9K
C2235	A	D	12H
C2236	A	D	12H
C2237	A	D	9K
C2238	A	D	8K
C2251	A	D	12I
C2252	B	C	12J
C2253	B	C	12I
C2254	B	C	12I
C2255	B	C	11I
C2256	A	D	13I
C2401	A	D	19C
C2402	A	D	19C
C2403	A	D	20C
C2404	B	C	19D
C2405	B	C	19C
C2406	A	D	20B
C2407	A	D	20C
C2408	B	C	20C
C2409	B	C	20C
C2410	A	D	19B
C2411	B	C	20C
C3001	B	C	8J
C3002	B	C	7J
C3003	A	D	7J
C3004	B	C	7H
C3007	B	C	5E
C3008	B	C	21E
C3010	A	D	1B
C3011	A	D	1B
C3012	A	D	4B
C3014	A	D	6A
C3015	B	C	8F
C3016	B	C	9D
C3017	B	C	8C
C3018	B	C	8C
C3019	B	C	8C
C3020	B	C	9C
C3021	B	C	9C
C3022	B	C	17C
C3024	B	C	11C
C3025	A	D	11C
C3026	B	C	11C
C3027	B	C	12C
C3028	B	C	10B
C3029	B	C	11B
C3030	B	C	13D
C3031	B	C	12C
C3032	B	C	11D
C3033	B	C	10F
C3034	B	C	12C
C3035	B	C	12C
C3036	B	C	12C
C3037	B	C	12C
C3038	B	C	13D
C3039	B	C	13D
C3040	A	D	8D
C3041	B	C	11C
C3042	A	D	5B
C3043	B	C	8C
C3049	B	C	3A
C3050	B	C	11D
C3054	B	C	12C
C3602	B	C	15F
C3603	B	C	15E
C3604	B	C	15E
C3652	B	C	17C
C3653	B	C	16C
C3654	B	C	16C
C4001	A	D	6B
C4002	B	C	9E
C4003	B	C	9F
C4004	B	C	10F
C4005	B	C	9F
C4006	B	C	9F
C4007	B	C	9F
C4008	B	C	9F
C4009	B	C	9F
C4010	B	C	7E
C4011	B	C	11F
C4012	B	C	11F
C4013	B	C	10F
C4014	B	C	10F
C4015	B	C	10F
C4016	B	C	10F
C4017	B	C	9F
C5001	A	D	2O
C5002	A	D	4N
C5003	A	D	4P
C5004	A	D	1J
C5006	A	D	3M
C5101	A	D	2M
C5102	A	D	3K
C5103	A	D	2K
C5104	A	D	3L
C5105	A	D	4M
C5106	A	D	3L
C5107	A	D	1K
C5201	A	D	1G
C5202	A	D	2G
C5203	A	D	1G
C5204	A	D	4H
C5205	A	D	2H
C5206	A	D	3G
C5207	A	D	2F
C5208	A	D	1E
C5209	A	D	3G
C5211	A	D	5M
C5212	A	D	4J
C5213	A	D	1H
C5301	A	D	1E
C5302	A	D	2E
C5303	A	D	3E
C5304	A	D	3D
C5305	B	C	1G
C5306	A	D	3C
C5307	A	D	2C
C5308	A	D	2F
C5309	A	D	2E
C5310	A	D	3D
C6005	A	D	21M
C6006	B	C	22M
C6007	A	D	20M
C6008	B	C	21M
C6012	A	D	21O
C6013	B	C	22O
C6014	B	C	22P
C6016	B	C	21O
C6020	B	C	22N
C6021	B	C	22N
C6022	B	C	22N
C6023	B	C	20M
C6024	B	C	22K
C6027	B	C	21L
C6028	B	C	22L
C6032	B	C	21K
C6033	B	C	22J
C6037	B	C	22L
C6052	B	C	22O
C6053	B	C	22P
C6054	B	C	22P
C6055	B	C	22O
C6101	A	D	21B
C6519	B	C	19N
C6520	B	C	18N
C6551	A	D	22P
C6552	B	C	22O
C6553	A	D	19L
C6554	B	C	22O
C6555	B	C	19M
C7202	A	D	19O
C7251	B	C	21B
CONNECTOR			
CN1	A	D	15K
CN301	A	D	20J
CN302	A	D	18H
CN501	A	D	7O
CN502	A	D	18O
CN901	A	D	22A
CN902	A	D	20A
CN903	A	D	14P
CN904	A	D	19P
CN905	A	D	16P
CN906	A	D	20C
CN907	A	D	8P
CN1901	A	D	22C
CN2001	A	D	14L
CN2002	A	D	20G
CN2051	A	D	18L
CN2052	A	D	6K
CN3001	A	D	6L
CN3002	A	D	8J
CN3003	A	D	8H
CN3004	A	D	10A
CN3011	A	D	3A
CN3012	A	D	2C
CN3901	A	D	14C
CN5001	A	D	1P
CN6102	A	D	21C
CN6103	A	D	21H
CN6701	A	D	18M
CN7103	A	D	22E
DIODE			
D1	B	C	19L
D3	B	C	10O
D4	A	D	14M
D5	B	C	14M
D6	A	D	7N
D8	A	D	12N
D2001	B	C	18I
D2201	A	D	8M
D2202	A	D	7M
D3001	A	D	13D
D3002	A	D	5D
D3003	A	D	3C
D3004	A	D	4A
D3005	A	D	4A
D3006	A	D	5J
D3007	B	C	7D
D3008	B	C	7D
D3011	A	D	2B
D3012	A	D	1C
D4001	B	C	11E
D4002	B	C	11F
D5001	B	C	3N
D5101	A	D	1L
D5102	A	D	2L
D5103	A	D	2K
D5104	A	D	4N
D5201	A	D	1I
D5202	A	D	4H
D5203	A	D	4I
D5204	A	D	3I
D5205	A	D	3I
D5206	A	D	2H
D5207	A	D	2H
D5208	A	D	3G
D5209	A	D	3H
D5210	A	D	4I
D5211	A	D	1I
D5212	A	D	2I
D5213	A	D	5L
D5214	A	D	4I
D5301	A	D	3H
D5302	A	D	2D
D5303	A	D	1E
D5304	A	D	1F
D5305	A	D	4G
D5306	A	D	2D
D5307	A	D	3F
D5308	A	D	2F
D5309	A	D	3C
D5310	A	D	2E
D5314	A	D	3G
D5315	A	D	5G
D5316	A	D	3F
D5317	A	D	7H
D6002	A	D	22L
D6551	A	D	22O
IC			
IC1	B	C	11L
IC2	B	C	16H
IC2201	B	C	9K
IC2401	B	C	19C
IC3001	B	C	10D
IC3002	B	C	12C
IC3003	B	C	16C
IC3004	A	D	7J
IC3005	A	D	17B
IC3601	B	C	15F
IC3651	B	C	17D
IC5101	A	D	2L
IC5301	A	D	1D
COIL			
L1	A	D	13I
L2	A	D	15L
L3	A	D	14N
L4	A	D	11N
L5	A	D	9M
L11	A	D	11N
L12	A	D	11M
L13	A	D	11O
L14	A	D	12N
L15	A	D	13H
L17	A	D	15G
L18	A	D	15H
L19	A	D	14H
L20	A	D	16L
L22	A	D	12M
L24	A	D	15M
L25	A	D	18H
L26	A	D	18H
L27	A	D	11O
L28	A	D	15M
L401	A	D	16J
L402	A	D	19G
L2001	A	D	13J
L2251	A	D	13I
L2252	A	D	11I
L3001	A	D	6J
L3011	A	D	7J
L3012	A	D	7J
L5201	A	D	2G
L5202	A	D	1F
L6001	A	D	20N
L6002	A	D	21P
L6003	A	D	21O
L6004	A	D	21P
L6005	A	D	20N
L6032	A	D	22J
L6050	A	D	22N
L6501	A	D	19M
L7201	A	D	19O
TRANSISTOR			
Q1	B	C	15I
Q2	B	C	15I
Q3	B	C	15J
Q4	B	C	15J
Q5	B	C	13L
Q7	B	C	15G
Q8	B	C	15H
Q9	B	C	15H
Q10	B	C	8N
Q11	B	C	9N
Q12	B	C	8N
Q13	B	C	8N
Q14	B	C	15G
Q16	B	C	16L
Q17	B	C	16L
Q21	B	C	12O
Q24	B	C	7N
Q25	B	C	9N
Q26	B	C	9N
Q31	B	C	19I
Q32	B	C	13M
Q34	B	C	12N
Q35	B	C	13M
Q37	B	C	13N
Q38	B	C	15M
Q39	B	C	11O
Q41	B	C	11O
Q401	B	C	16J
Q402	B	C	16J
Q403	B	C	16I
Q404	B	C	18G
Q405	B	C	19G
Q2001	B	C	14L
Q2002	B	C	14K
Q2003	B	C	14L
Q2004	B	C	14K
Q2005	B	C	14J
Q2006	B	C	14K
Q2011	B	C	14K
Q2051	B	C	6K
Q2052	B	C	18H
Q2053	B	C	18H
Q2054	B	C	19H
Q2061	B	C	21G
Q2062	B	C	19H
Q2251	B	C	10I
Q2252	B	C	10I
Q3001	B	C	7J
Q3002	A	D	5E
Q3003	A	D	20E
Q3004	B	C	3C
Q3005	B	C	4B
Q3007	B	C	7D
Q3009	B	C	7D
Q3010	B	C	14E
Q3011	B	C	14F
Q3901	B	C	14C
Q4001	B	C	8E
Q4002	B	C	10F
Q4003	B	C	9F
Q5101	A	D	3L
Q5102	B	C	3L
Q5103	B	C	4M
Q5301	A	D	3F
Q5302	B	C	3F
Q5303	A	D	2C
Q5304	A	D	2E
Q5305	B	C	3E
Q5306	A	D	3F
Q5310	B	C	3C
Q5311	B	C	4F
Q5312	A	D	1C
Q5318	B	C	2C
Q5320	A	D	4G
Q5321	B	C	4F
Q5322	B	C	4D
Q6030	B	C	22I
Q6031	B	C	22J
Q6032	B	C	21J
Q6501	B	C	19N
Q6502	B	C	19N
Q6551	A	D	22O
Q7201	A	D	20P
RESISTOR			
R1	B	C	14L
R2	B	C	14L
R3	B	C	15L
R4	B	C	12N
R5	B	C	12N
R6	B	C	11M
R7	B	C	10N
R8	B	C	8N
R9	B	C	8M
R21	B	C	14H
R22	B	C	14G
R23	B	C	14L
R24	B	C	14G
R25	B	C	15G
R26	B	C	14G
R27	B	C	15G
R28	B	C	14H
R29	B	C	15G
R30	B	C	15H
R31	B	C	15H
R32	B	C	15G
R33	B	C	16L
R34	B	C	16L
R35	B	C	15L
R36	B	C	8N
R37	B	C	10N
R38	B	C	10N
R39	B	C	9N
R40	B	C	8N
R41	B	C	8N
R42	B	C	8N
R43	B	C	8N
R44	B	C	7N
R45	B	C	7N
R46	B	C	12O
R47	B	C	12N
R48	B	C	12O
R51	B	C	8N
R60	B	C	19I
R61	B	C	19I
R65	B	C	13L
R66	B	C	13M
R68	B	C	17I
R70	B	C	15N
R72	B	C	12O
R73	B	C	12O
R75	B	C	14M
R76	B	C	11O
R77	B	C	14J
R79	B	C	10M
R80	B	C	12O
R81	B	C	10N
R82	B	C	16M
R84	B	C	16N
R85	B	C	16L
R88	B	C	8N
R90	B	C	14M
R91	B	C	13N
R92	B	C	15M
R93	B	C	15M
R104	B	C	16M
R113	B	C	13L
R114	B	C	16O
R117	B	C	10N
R118	B	C	10M
R401	B	C	16J
R402	B	C	16J
R403	B	C	16J
R404	B	C	16I
R405	B	C	16I
R406	B	C	16I
R407	B	C	19F
R408	B	C	19F
R409	B	C	16F
R2001	B	C	8M
R2002	B	C	7M
R2003	A	D	7L
R2005	A	D	9I
R2006	A	D	10I
R2007	B	C	10J
R2008	B	C	10K
R2009	B	C	10K
R2010	B	C	10K
R2011	B	C	14K
R2013	B	C	13J
R2014	B	C	13J
R2015	B	C	14J
R2016	B	C	14K
R2017	B	C	13K
R2018	B	C	14K
R2019	B	C	14K
R2020	B	C	14K
R2022	B	C	14K
R2023	B	C	14J
R2025	B	C	14J
R2026	B	C	14J
R2051	B	C	18L
R2052	B	C	18L
R2053	B	C	18L
R2054	B	C	6K
R2055	B	C	6K
R2056	B	C	18L
R2057	B	C	18H
R2058	B	C	18H
R2059	B	C	19H
R2060	B	C	19H
R2061	B	C	21F
R2062	B	C	21F
R2063	B	C	21G
R2064	B	C	19H
R2065	B	C	18G
R2201	B	C	7M
R2202	B	C	8L
R2203	B	C	8L
R2204	B	C	8L
R2205	B	C	8L
R2206	A	D	7L
R2208	A	D	7K
R2209	A	D	7K
R2210	B	C	9L
R2211	B	C	9K
R2213	B	C	10J
R2215	B	C	10J
R2217	B	C	10I
R2218	B	C	10I
R2219	A	D	8J
R2220	B	C	10J
R2222	B	C	10J
R2223	B	C	10J
R2224	B	C	10J
R2225	B	C	10J
R2226	B	C	10H
R2227	B	C	9H
R2228	B	C	10L
R2229	A	D	9L
R2232	B	C	7L
R2233	B	C	8K
R2234	B	C	9K
R2235	B	C	8K
R2236	B	C	8J
R2251	B	C	6L
R2252	B	C	10I
R2401	B	C	19D
R2402	B	C	19D
R2403	B	C	19D
R2404	B	C	19D
R2405	B	C	20C
R2406	B	C	20C
R3011	A	D	8G
R3012	B	C	8F
R3013	B	C	8F
R3014	B	C	8F
R3015	B	C	8E
R3016	A	D	7G
R3017	A	D	8F
R3018	A	D	7G
R3019	A	D	7G
R3020	B	C	7F
R3021	B	C	7F
R3022	B	C	8E
R3025	B	C	7E
R3026	B	C	7E
R3027	B	C	7E
R3029	B	C	8E
R3030	B	C	8E
R3031	B	C	8D
R3032	B	C	8D
R3033	B	C	8D
R3034	B	C	8D
R3035	B	C	7D
R3036	B	C	7D
R3038	B	C	8D
R3039	B	C	8D
R3040	B	C	8D
R3041	B	C	8D
R3042	B	C	9D
R3044	A	D	8C
R3046	A	D	8C
R3047	A	D	8C
R3048	A	D	8C
R3049	B	C	9C
R3050	B	C	9C
R3051	B	C	9C
R3052	B	C	9C
R3053	B	C	9C
R3054	B	C	10C
R3055	B	C	9C
R3058	B	C	10C
R3059	B	C	10C
R3060	B	C	10C
R3061	B	C	11C
R3062	B	C	11C
R3063	B	C	11C
R3066	A	D	12C
R3069	B	C	11D
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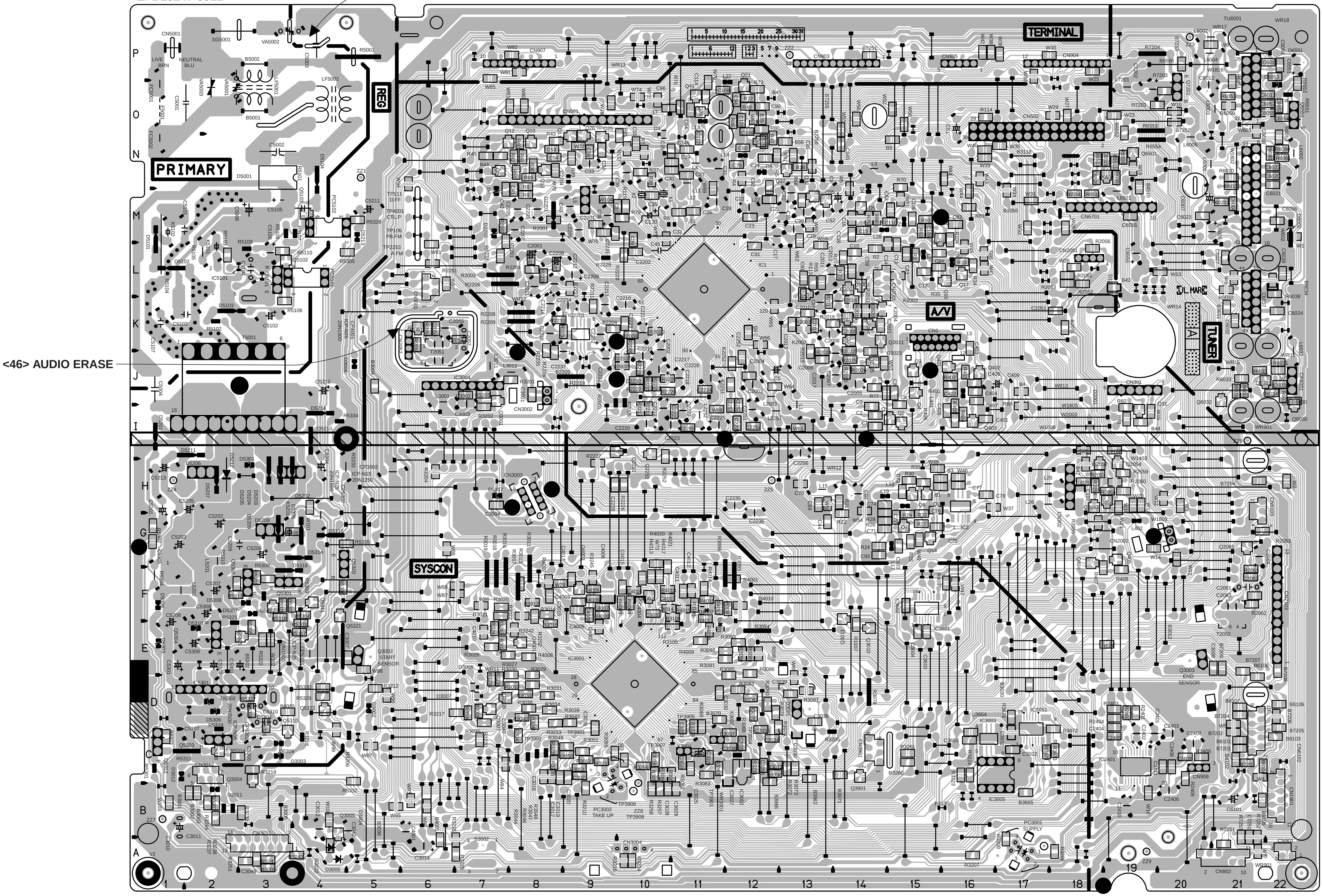
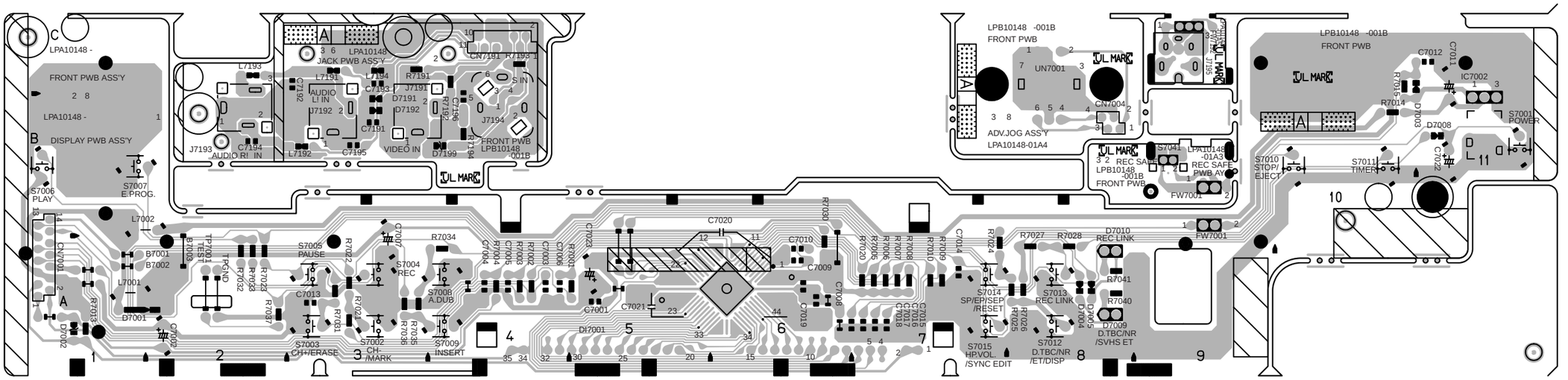
R3073	B	C	13C
R3074	A	D	14D
R3075	B	C	12D
R3076	B	C	12D
R3079	B	C	12D
R3080	B	C	12D
R3081	B	C	12D
R3083	B	C	12D
R3085	B	C	12D
R3086	B	C	12E
R3087	B	C	13D
R3088	B	C	12E
R3089	B	C	12E
R3090	B	C	12E
R3091	B	C	12E
R3092	B	C	12E
R3093	B	C	12E
R3094	A	D	12E
R3095	A	D	12G
R3096	A	D	12G
R3097	B	C	12F
R3103	B	C	11F
R3105	B	C	11E
R3106	B	C	11F
R3107	B	C	14E
R3201	B	C	8J
R3202	B	C	7I
R3203	B	C	7J
R3204	B	C	6H
R3205	A	D	14C
R3206	A	D	5C
R3207	B	C	16A
R3208	B	C	18A
R3209	B	C	17A
R3210	B	C	9B
R3211	B	C	9C
R3212	B	C	5D
R3213	B	C	8D
R3214	B	C	10A
R3215	B	C	7A
R3216	B	C	10A
R3217	B	C	7D
R3218	A	D	4C
R3219	B	C	3C
R3220	B	C	7C
R3222	B	C	4A
R3223	B	C	16C
R3224	B	C	16C
R3225	B	C	7A
R3229	B	C	11D
R3230	B	C	12C
R3231	B	C	12C
R3233	B	C	7D
R3234	B	C	7D
R3235	B	C	8C
R3236	B	C	8C
R3237	A	D	2B
R3238	A	D	2B
R3239	B	C	3B
R3241	B	C	3A
R3242	B	C	8F
R3243	B	C	4A
R3244	B	C	2B
R3245	B	C	9F
R3246	B	C	7E
R3247	B	C	7E
R3251	B	C	3A
R3252	B	C	8F
R3256	B	C	10C
R3257	B	C	10B
R3258	B	C	10B
R3260	B	C	15C
R3261	B	C	15C
R3671	B	C	17C
R3672	B	C	18D
R3673	B	C	18C
R3674	B	C	17D
R4001	B	C	12F
R4003	B	C	10F
R4004	B	C	10F
R4005	B	C	9F
R4006	B	C	9F
R4007	B	C	8F
R4008	B	C	8E
R4009	B	C	11E
R4010	B	C	12F
R4011	B	C	11F
R4012	B	C	11F
R4013	B	C	10F
R4014	B	C	11F
R4015	B	C	11F
R4016	B	C	11E
R4017	B	C	10F
R4018	B	C	10F
R4019	B	C	11F
R4020	B	C	10G
R4021	B	C	10G
R5001	A	D	4P
R5101	A	D	4N
R5102	A	D	2K
R5103	B	C	2L
R5104	A	D	1L
R5105	A	D	2L
R5106	B	C	3K
R5107	A	D	4M
R5108	A	D	3M
R5109	A	D	3L
R5110	B	C	3L
R5301	A	D	1C
R5302	B	C	3F
R5303	B	C	4E
R5304	A	D	1G
R5305	B	C	5L
R5306	B	C	3D
R5307	B	C	1G
R5308	B	C	3F
R5309	A	D	3F
R5310	B	C	2F
R5311	B	C	2F
R5313	A	D	1C
R5314	B	C	2C
R5317	B	C	4E
R5318	B	C	3F
R5319	A	D	2D
R5321	A	D	3E
R5322	B	C	3E
R5323	B	C	3F
R5326	B	C	3D
R5327	B	C	3D
R5328	B	C	5M
R5329	B	C	4D
R5330	B	C	4D
R5332	B	C	5C
R5333	A	D	4H
R5334	A	D	4I
R5335	B	C	5G
R5336	B	C	4F
R6020	B	C	21N
R6021	B	C	21N
R6023	B	C	21M
R6030	B	C	22J
R6031	B	C	22J
R6032	B	C	21L
R6033	B	C	21J
R6034	B	C	22J
R6038	B	C	22L
R6050	B	C	21O
R6051	B	C	21O
R6052	B	C	21O
R6053	B	C	22N
R6060	B	C	22N
R6061	B	C	22N
R6080	B	C	22N
R6508	B	C	19N
R6509	B	C	19N
R6510	B	C	18M
R6511	B	C	19N
R6551	A	D	22O
R6552	B	C	22O
R6553	A	D	20O
R6554	A	D	20N
R7202	B	C	20O
R7203	B	C	20O
R7204	A	D	20P
R7251	B	C	21A
R7252	B	C	21B
R7253	B	C	21B
SWITCH			
S3002	A	D	7A
TESTPOINT			
TP106	A	D	6M
TP111	A	D	6M
TP2253	A	D	6L
TP3901	B	C	9C
TP3902	B	C	8C
TP3903	B	C	11C
TP3904	B	C	12C
TP3905	B	C	11C
TP3906	B	C	10C
TP3907	B	C	10C
TP3908	B	C	10C
TP4001	A	D	6M
OTHER			
CF6031	A	D	22J
CP3002	A	D	6H
CP4001	A	D	5K
CP5301	A	D	3D
CP5302	A	D	4H
CP5303	A	D	4E
F5001	A	D	1P
FC5001	A	D	1P
FC5002	A	D	1N
K2001	B	C	13K
K2002	B	C	13K
K2003	B	C	15L
K2004	B	C	14K
K2251	B	C	12J
K2252	B	C	12I
K2253	B	C	12J
K5101	A	D	2M
K5102	A	D	1M
K5201	A	D	3G
LF5001	A	D	2P
LF5002	A	D	5O
PC3001	A	D	17A
PC3002	A	D	9C
PC5101	A	D	4L
PC5102	A	D	5M
SG5001	A	D	2P
T2051	A	D	6K
T2052	A	D	21F
T5001	A	D	2J
TU6001	A	D	21P
VA5001	A	D	2P
VA5002	A	D	4P
VA5003	A	D	2P
WR11	A	D	7E
WR12	A	D	8L
WR15	A	D	21J
WR16	A	D	21J
WR17	A	D	21P
WR18	A	D	22P
WR901	A	D	21A
WR3001	A	D	12C
X1	A	D	10N
X2	A	D	10M
X3001	A	D	11C
X3002	A	D	11C

4.17 MAIN AND AUDIO ERASE CIRCUIT BOARD

<03> MAIN, <46> AUDIO ERASE
LPB10147-001B



<28> SW/DISPLAY, <32> REC SAFETY, <36> JACK, <38> ADV.JOG
LPB10148-001B



<14> DEMODULATOR
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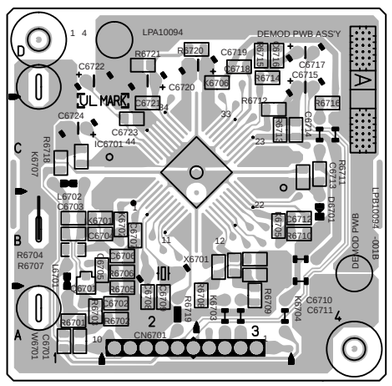
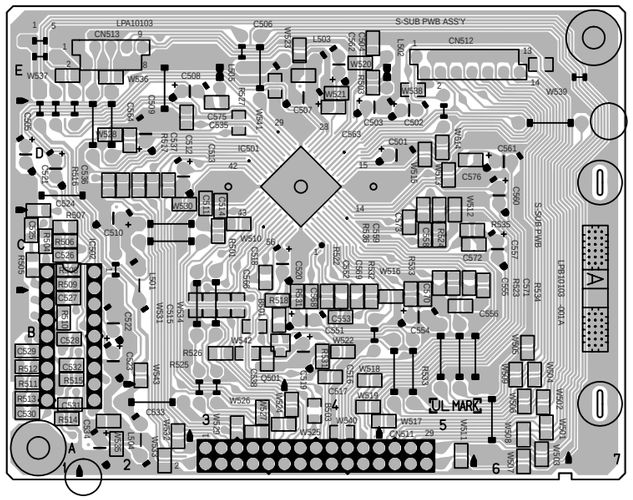


COMPONENT PARTS LOCATION GUIDE
<DEMODULATOR>

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

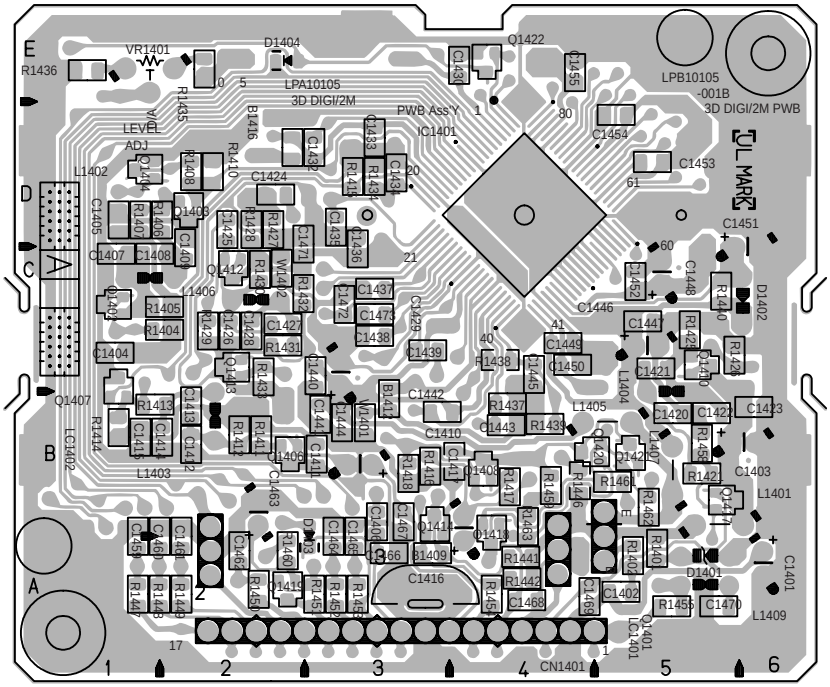
<15> S-SUB
LPB10103-001A



COPMONENT PARTS LOCATION GUIDE <S-SUB>

REF.NO.	LOCATION		
CAPACITOR			
C501	A	D	5D
C502	A	D	5D
C503	A	D	4D
C504	B	C	4E
C505	A	D	1D
C506	B	C	4E
C507	A	D	4E
C508	A	D	2E
C509	A	D	2D
C510	A	D	2C
C511	B	C	3C
C512	B	C	2D
C513	A	D	2D
C514	B	C	3C
C515	B	C	3B
C516	B	C	4B
C517	B	C	4B
C518	B	C	3C
C519	A	D	4B
C520	A	D	3C
C521	A	D	1D
C522	A	D	2B
C523	A	D	2B
C524	B	C	1C
C525	B	C	1C
C526	B	C	1C
C527	B	C	1B
C528	B	C	1B
C529	B	C	1B
C530	B	C	1A
C531	B	C	1A
C532	B	C	1B
C533	B	C	2A
C534	A	D	2A
C535	B	C	2D
C536	B	C	2D
C537	B	C	2D
C538	B	C	3B
C551	A	D	4B
C552	B	C	4B
C553	B	C	4B
C554	A	D	5B
C555	B	C	5C
C556	B	C	5B
C557	A	D	6C
C558	B	C	5C
C559	B	C	5C
C560	A	D	6D
C561	A	D	6D
C562	A	D	4E
C563	B	C	4D
C564	B	C	2D
C566	B	C	3B
C568	B	C	4B
C569	B	C	4B
C570	B	C	5B
C571	B	C	5C
C572	B	C	6C
C573	B	C	5C
C575	B	C	3D
C576	B	C	5D
CONNECTOR			
CN511	A	D	3A
CN512	A	D	5E
CN513	A	D	1E
IC			
IC501	B	C	4D
IC502	A	D	1C
COIL			
L501	A	D	2B
L502	A	D	5E
L503	A	D	3E
L504	A	D	2A
L505	A	D	3E
TRANSISTOR			
Q501	B	C	3B
RESISTOR			
R501	B	C	3C
R503	B	C	4E
R504	B	C	1C
R505	B	C	1C
R506	B	C	1C
R507	B	C	1C
R508	B	C	1C
R509	B	C	1C
R510	B	C	1B
R511	B	C	1B
R512	B	C	1B
R513	B	C	1A
R514	B	C	1A
R515	B	C	1B
R516	B	C	2D
R517	B	C	2D
R518	B	C	3B
R522	B	C	4B
R523	B	C	5C
R524	B	C	5C
R525	B	C	3B
R526	B	C	3B
R527	B	C	3D
R531	B	C	4B
R532	B	C	4B
R533	B	C	5B
R534	B	C	6C
R535	B	C	5C
R536	B	C	5C

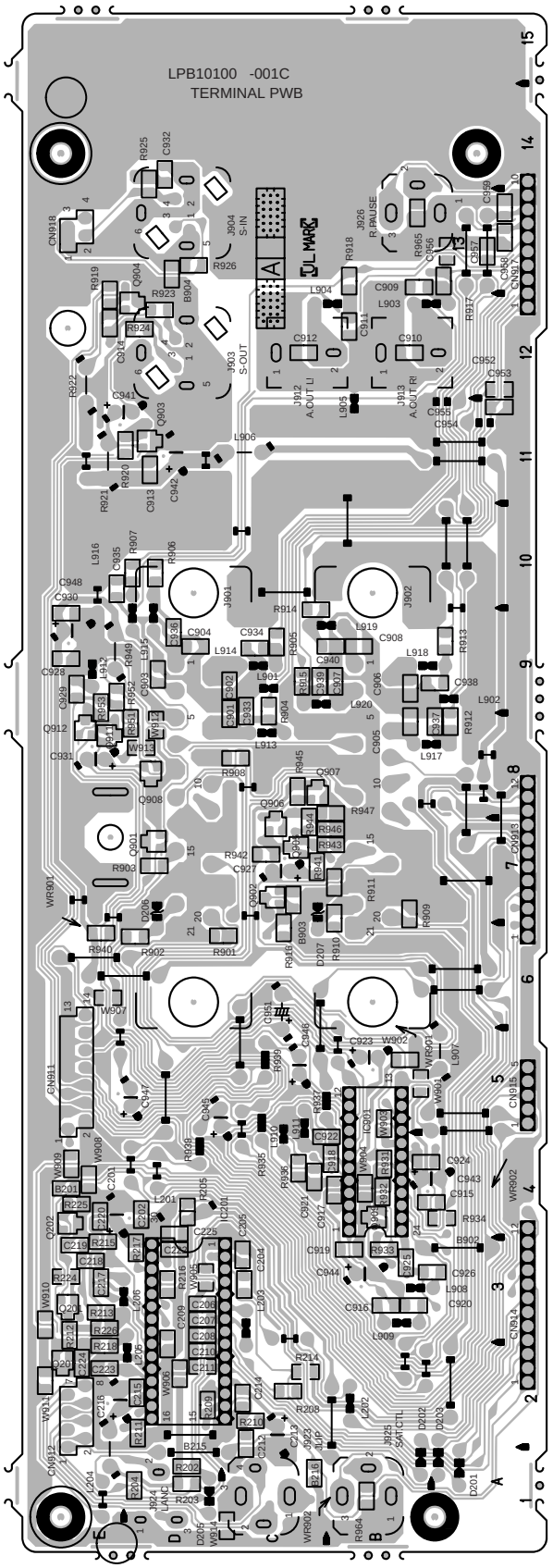
<05> 3D DIGITAL/2M
LPB10105-001B



COMPONENT PARTS LOCATION GUIDE <3D DIGITAL/2M>

REF.NO.	LOCATION		
CAPACITOR			
C1401	A	D	5A
C1402	B	C	5A
C1403	A	D	5B
C1404	B	C	2B
C1405	A	C	1C
C1406	B	C	3A
C1407	B	C	2B
C1408	B	C	1B
C1409	B	C	1B
C1410	A	D	2B
C1411	A	C	1B
C1412	B	C	2B
C1413	A	C	2B
C1414	A	C	2C
C1415	B	C	1C
C1416	A	D	3B
C1417	A	C	3B
C1420	A	C	4B
C1421	A	C	4B
C1422	A	C	4B
C1423	B	C	4B
C1424	B	C	3B
C1425	A	C	4C
C1426	B	C	5B
C1427	B	C	5B
C1428	A	C	5C
C1429	A	D	3B
C1430	A	C	2D
C1431	A	C	2D
C1432	B	C	2C
C1433	A	C	3C
C1434	B	C	3B
C1435	B	C	1E
C1436	B	C	2E
C1437	A	C	3C
C1438	B	C	3C
C1439	A	C	5A
C1440	B	C	3C
C1441	A	C	3C
C1442	B	C	4C
C1443	B	C	4C
C1444	A	C	4C
C1445	A	C	4C
C1446	A	D	5C
C1447	B	C	5B
C1448	A	D	5C
C1449	A	C	4D
C1450	A	C	3D
C1451	A	D	5D
C1452	A	C	3D
C1453	A	C	3D
C1454	A	C	2D
C1455	B	C	2D
C1456	A	D	5D
C1457	A	C	5E
C1458	A	C	5D
C1459	A	C	1A
C1460	A	C	1B
C1461	A	C	1B
C1462	A	C	2A
C1463	A	D	1D
C1464	A	C	3A
C1465	A	C	3A
C1466	A	C	3A
C1467	B	C	3A
C1468	B	C	4A
C1469	B	C	4A
C1470	B	C	6A
C1471	B	C	5B
C1472	A	C	3C
C1473	A	C	3C
CONNECTOR			
CN1401	A	D	5A
DIODE			
D1401	A	D	6B
D1402	A	D	5D
D1403	A	C	1C
IC			
IC1401	B	C	3D
IC1402	A	C	4D
COIL			
L1401	A	D	4B
L1402	A	D	1B
L1403	A	D	2B
L1404	A	D	4C
L1405	A	D	4B
L1406	A	D	5B
L1407	A	D	6B
L1408	A	D	6C
L1409	A	D	5A
TRANSISTOR			
Q1401	A	D	5B
Q1402	B	C	2B
Q1403	A	C	2C
Q1404	A	C	2C
Q1406	A	C	2B
Q1407	B	C	2C
Q1408	A	C	3B
Q1410	B	C	4B
Q1412	A	C	5B
Q1413	A	C	5C
Q1414	A	C	3A
Q1415	B	C	5D
Q1416	A	C	4D
Q1417	A	C	4B
Q1418	B	C	4A
Q1419	A	C	2B
Q1420	A	C	4A
Q1421	A	C	4B
Q1422	A	C	1C
RESISTOR			
R1401	B	C	5B
R1402	B	C	5A
R1404	B	C	2B
R1405	B	C	2B
R1406	B	C	1B
R1407	A	C	2C
R1408	A	C	2C
R1410	A	C	2C
R1411	A	C	2B
R1412	A	C	2B
R1413	A	C	2C
R1414	A	C	2C
R1415	B	C	2C
R1416	B	C	3B
R1417	B	C	3B
R1418	A	C	3B
R1421	A	C	4B
R1425	A	C	4B
R1426	B	C	3C
R1427	B	C	3B
R1428	A	C	3B
R1429	A	C	4B
R1430	A	C	5B
R1431	B	C	5C
R1432	A	C	5C
R1433	A	C	5C
R1434	B	C	2B
R1435	B	C	1E
R1436	B	C	1E
R1437	B	C	4C
R1438	A	C	3C
R1439	A	C	4C
R1440	B	C	5C
R1441	A	C	3A
R1442	A	C	3A
R1446	A	C	2A
R1447	B	C	1A
R1448	B	C	1A
R1449	B	C	2A
R1450	B	C	2A
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
R1462	A	C	3B
R1463	A	C	4A
VR1401	A	D	1E
OTHER			
LC1401	A	D	4A
LC1402	A	D	2A

<06> TERMINAL
LPB10100-001C



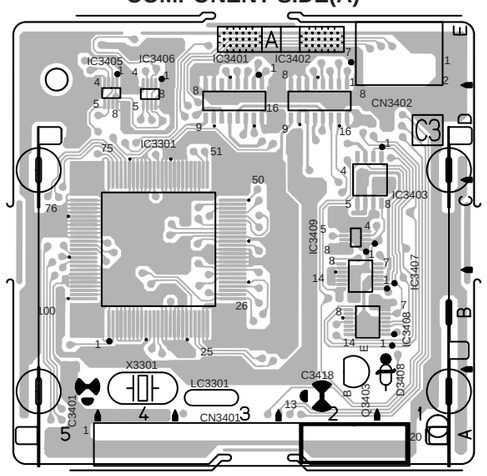
COMPONENT PARTS LOCATION GUIDE <TERMINAL>

REF.NO.	LOCATION		
CAPACITOR			
C201	A	D	4E
C202	B	C	4D
C204	B	C	3C
C205	B	C	3C
C206	B	C	3D
C207	B	C	3D
C208	B	C	3D
C209	B	C	2D
C210	B	C	2D
C211	B	C	2D
C212	B	C	2C
C213	A	D	2C
C214	B	C	2C
C215	B	C	2D
C216	A	D	2E
C217	B	C	3E
C218	B	C	3E
C219	B	C	3E
C220	B	C	4E
C222	B	C	3D
C223	B	C	2E
C224	B	C	2E
C225	B	C	4D
C901	B	C	8D
C902	B	C	9D
C903	B	C	9D
C904	B	C	9D
C905	B	C	8B
C906	B	C	9B
C907	B	C	9C
C908	B	C	9B
C909	B	C	13B
C910	B	C	12B
C911	B	C	12B
C912	B	C	12C
C913	B	C	11D
C914	B	C	12E
C915	B	C	4B
C916	B	C	3B
C917	B	C	4C
C918	B	C	4C
C919	B	C	3B
C920	B	C	3B
C921	B	C	4C
C922	B	C	4C
C923	A	D	5B
C924	B	C	4B
C925	B	C	3B
C926	B	C	3B
C927	A	D	7C
C928	B	C	9E
C929	B	C	9E
C930	B	C	9E
C931	A	D	8E
C932	B	C	14D
C933	B	C	9C
C934	B	C	9C
C935	B	C	10E
C936	B	C	9D
C937	B	C	8B
C938	B	C	9B
C939	B	C	9C
C940	B	C	9C
C941	A	D	11E
C942	A	D	11D
C943	A	D	4B
C944	A	D	3B
C945	A	D	5D
C946	A	D	5C
C947	A	D	5D
C948	A	D	9E
C951	A	D	5C
C952	B	C	11A
C953	B	C	12A
C954	A	D	11A
C955	A	D	11A
C956	B	C	13A
C957	B	C	13A
C958	B	C	13A
C959	B	C	13A
CONNECTOR			
CN911	A	D	5E
CN912	A	D	2E
CN913	A	D	6A
CN914	A	D	2A
CN915	A	D	5A
CN917	A	D	12A
CN918	A	D	13E
DIODE			
D201	A	D	1A
D202	A	D	1B
D203	A	D	1B
D205	A	D	1D
D206	A	D	7D
D207	A	D	7C
IC			
IC201	A	D	3D
IC901	A	D	4B
JACK			
J901	A	D	8D
J902	A	D	8B
J903	A	D	12D
J904	A	D	13D
J912	A	D	12C
J913	A	D	12B
J923	A	D	1C
J924	A	D	1D
J925	A	D	1B
J926	A	D	13B
COIL			
L201	A	D	4D
L202	A	D	2B
L203	A	D	3C
L204	A	D	2E
L205	A	D	3E
L206	A	D	3E
L901	A	D	9C
L902	A	D	9B
L903	A	D	12A
L904	A	D	12B
L905	A	D	12B
L906	A	D	11C
L907	A	D	5B
L908	A	D	3B
L909	A	D	3B
L910	A	D	4C
L911	A	D	5C
L912	A	D	9E
L913	A	D	8C
L914	A	D	9C
L915	A	D	10D
L916	A	D	10D
L917	A	D	8A
L918	A	D	9A
L919	A	D	9B
L920	A	D	9B
TRANSISTOR			
Q201	B	C	3E
Q202	B	C	4E
Q207	B	C	2E
Q901	B	C	7D
Q902	B	C	7C
Q903	B	C	11D
Q904	B	C	12D
Q905	B	C	7C
Q906	B	C	7C
Q907	B	C	8C
Q908	B	C	8D
Q909	B	C	4B
Q911	B	C	8E
Q912	B	C	8E
RESISTOR			
R202	B	C	1D
R203	B	C	1D
R204	B	C	1D
R205	B	C	4D
R208	B	C	2C
R209	B	C	2D
R210	B	C	2C
R211	B	C	2D
R212	B	C	3E
R213	B	C	3E
R214	B	C	2C
R215	B	C	3E
R216	B	C	3D
R217	B	C	3D
R218	B	C	2E
R224	B	C	3E
R225	B	C	4E
R226	B	C	3E
R901	B	C	6D
R902	B	C	6D
R903	B	C	7D
R904	B	C	9C
R905	B	C	9C
R906	B	C	10D
R907	B	C	10D
R908	B	C	8C
R909	B	C	7B
R910	B	C	7C
R911	B	C	7C
R912	B	C	8A
R913	B	C	9A
R914	B	C	9C
R915	B	C	9C
R916	B	C	6C
R917	B	C	13A
R918	B	C	13B
R919	B	C	12E
R920	B	C	11E
R921	A	D	11E
R922	A	D	11E
R923	B	C	12D
R924	B	C	12D
R925	B	C	14D
R926	B	C	13D
R931	B	C	4B
R932	B	C	4B
R933	B	C	3B
R934	B	C	4B
R935	A	D	5C
R936	B	C	4C
R937	A	D	5C
R938	A	D	4D
R939	A	D	5C
R940	B	C	6E
R941	B	C	7C
R942	B	C	7C
R943	B	C	7C
R944	B	C	7C
R945	B	C	8C
R946	B	C	7C
R947	B	C	8C
R949	A	D	9E
R951	B	C	8D
R952	B	C	9E
R953	B	C	9E
R964	B	C	1B
R965	B	C	13B
OTHER			
WR901	A	D	5B
WR902	A	D	4A

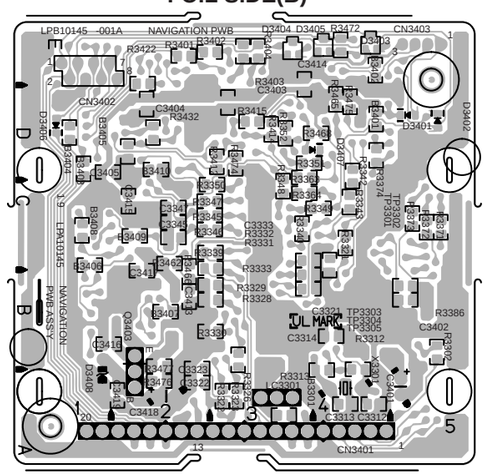
4.21 NAVIGATION CIRCUIT BOARD

<19> NAVIGATION
LPB10145-001A

COMPONENT SIDE(A)



FOIL SIDE(B)



COMPONENT PART LOCATION GUIDE <NAVIGATION>

REF.NO.	LOCATION		
CAPACITOR			
C3312	B	C	4A
C3313	B	C	4A
C3314	B	C	4B
C3321	B	C	4C
C3322	B	C	2A
C3323	B	C	2B
C3333	B	C	4C
C3345	B	C	2C
C3346	B	C	2C
C3347	B	C	2C
C3401	A	D	5A
C3402	B	C	5B
C3403	B	C	3D
C3404	B	C	2D
C3405	B	C	1D
C3413	B	C	2B
C3414	B	C	4E
C3415	B	C	2C
C3416	B	C	2B
C3417	B	C	2C
C3418	A	D	2A
C3419	B	C	2A
CONNECTOR			
CN3401	A	D	4A
CN3402	A	D	1E

REF.NO.	LOCATION		
DIODE			
D3401	B	C	5D
D3402	B	C	5D
D3403	B	C	4E
D3404	B	C	3E
D3405	B	C	4E
D3406	B	C	1D
D3407	B	C	4D
D3408	A	D	1A
IC			
IC3301	A	C	4C
IC3401	A	C	3D
IC3402	A	C	2D
IC3403	A	C	2D
IC3405	A	C	4D
IC3406	A	C	4D
IC3407	A	C	2B
IC3408	A	C	2B
IC3409	A	C	2C
TRANSISTOR			
Q3403	A	D	2B
RESISTOR			
R3302	B	C	5B
R3312	B	C	4B
R3313	B	C	4A

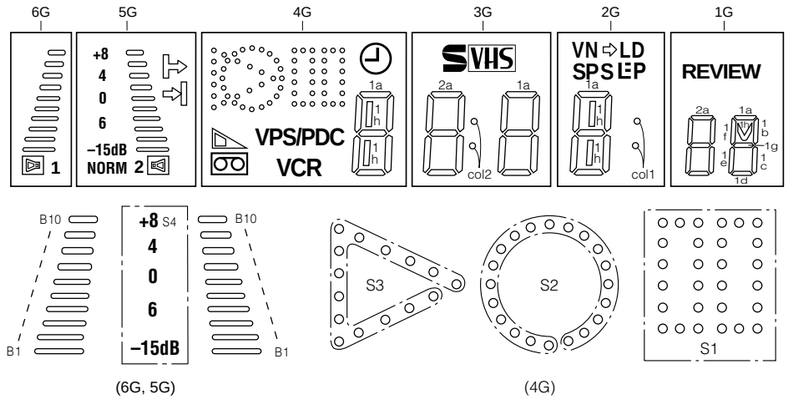
REF.NO.	LOCATION		
R3321	B	C	4C
R3322	B	C	3A
R3323	B	C	3A
R3326	B	C	3B
R3328	B	C	3B
R3329	B	C	3B
R3330	B	C	3B
R3331	B	C	4B
R3332	B	C	4C
R3333	B	C	3C
R3339	B	C	3C
R3340	B	C	4C
R3342	B	C	4D
R3343	B	C	4C
R3345	B	C	3C
R3346	B	C	3C
R3347	B	C	3C
R3348	B	C	3C
R3349	B	C	4C
R3350	B	C	3C
R3351	B	C	4D
R3352	B	C	3D
R3363	B	C	4D
R3364	B	C	4C
R3371	B	C	5C
R3372	B	C	5C

REF.NO.	LOCATION		
R3373	B	C	5C
R3374	B	C	4D
R3386	B	C	5B
R3401	B	C	2E
R3402	B	C	3E
R3403	B	C	3E
R3404	B	C	3E
R3412	B	C	3D
R3414	B	C	3D
R3415	B	C	3D
R3422	B	C	2E
R3432	B	C	2D
R3462	B	C	2C
R3465	B	C	4D
R3466	B	C	2C
R3468	B	C	4D
R3472	B	C	4E
R3474	B	C	3D
R3475	B	C	4D
R3476	B	C	2A
R3477	B	C	2B
OTHER			
LC3301	A	D	3A
TP3301	B	C	4C
TP3302	B	C	4C
TP3303	B	C	5C

REF.NO.	LOCATION		
TP3304	B	C	5C
TP3305	B	C	5C
X3301	A	D	4A

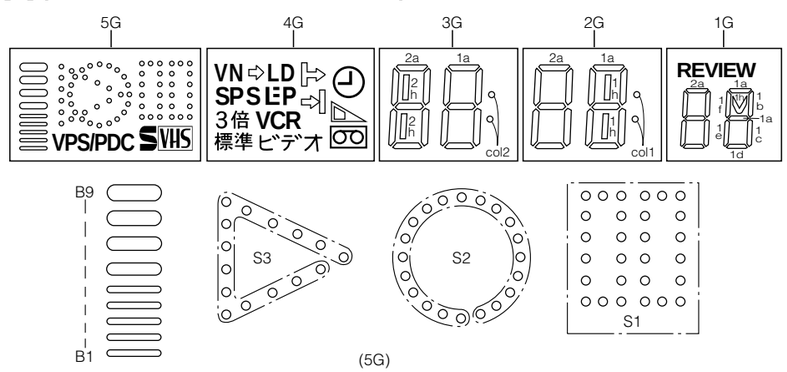
4.22 FDP GRID ASSIGNMENT AND ANODE CONNECTION

[A] (FDP with audio level indicator)



(6G, 5G) (4G)

[B] (FDP without audio level indicator)



(5G)

ANODE CONNECTION
[A]

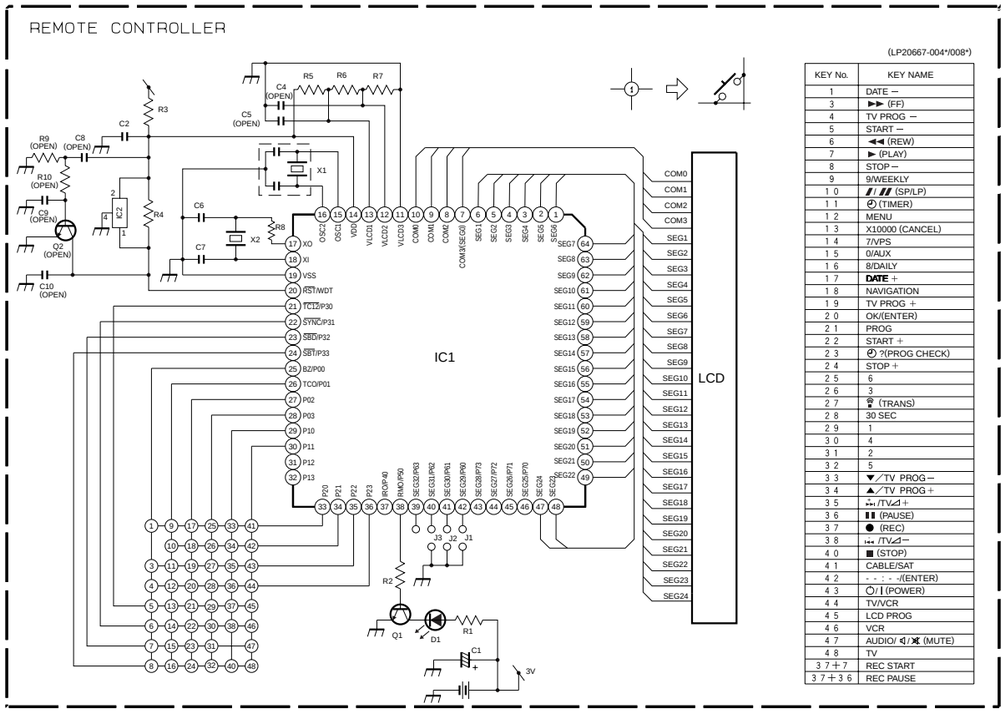
	6G	5G	4G	3G	2G	1G
P 1	—	⇨	S2	1a	1a	1a
P 2	—	⇨	S1	1b	1b	1b
P 3	—	S4	S3	1f	1f	1f
P 4	—	NORM	VPS/PDC	1g	1g	1g
P 5	1	2	◴	1c	1c	1c
P 6	▷	◁	◿	1e	1e	1e
P 7	B10	B10	📼	1d	1d	1d
P 8	B9	B9	VCR	col2	1h	1h
P 9	B8	B8	1a	2a	col1	2a
P10	B7	B7	1b	2b	⇨	2b
P11	B6	B6	1f	2f	VN	2f
P12	B5	B5	1g	2g	LD	2g
P13	B4	B4	1c	2c	SP	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

4.23 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.



KEY No.	KEY NAME
1	DATE –
3	►► (FF)
4	TV PROG –
5	START –
6	◄◄ (REW)
7	► (PLAY)
8	STOP –
9	9/WEEKLY
10	▮▮/▮▮ (SP/LP)
11	◴ (TIMER)
12	MENU
13	X10000 (CANCEL)
14	7/VPS
15	0/AUX
16	8/DAILY
17	DATE +
18	NAVIGATION
19	TV PROG +
20	OK/(ENTER)
21	PROG
22	START +
23	◴ ?(PROG CHECK)
24	STOP +
25	6
26	3
27	☎ (TRANS)
28	30 SEC
29	1
30	4
31	2
32	5
33	▼/TV PROG –
34	▲/TV PROG +
35	▪▪/TV◿+
36	▮▮ (PAUSE)
37	● (REC)
38	▪▪/TV◿–
40	■ (STOP)
41	CABLE/SAT
42	- - : - -/(ENTER)
43	⏻/I (POWER)
44	TV/VCR
45	LCD PROG
46	VCR
47	AUDIO/◿)/✕ (MUTE)
48	TV
37+7	REC START
37+36	REC PAUSE

4.24 CPU PIN FUNCTION

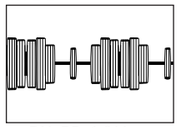
<SYSCON IC3001>

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 FEED BACK
6	CTLAMPOUT	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	NORM/MESEC/S	IN	SVHS MODE:H
12	SECAM_DET(H)/KILLER_DET/BIT_IN(H)	IN	NC/COLOR KILLER DETECT / NC [HR-S9850EU/EK] DETECTION SIGNAL FOR SECAM ON PB MODE(SECAM: H) / NC / NC [HR-S9850MS]
13	VIDEO_ENV	IN	AUTO TRACKING DETECT/INPUT THE AVERAGE OF PLAYBACK VIDEO SIGNAL
14	START_SENSOR	IN	STATR SENSOR
15	END_SENSOR	IN	END SENSOR
16	IND(L)	IN	AUDIO INPUT (LCH) FOR THE FDP AUDIO INDICATOR
17	NC	-	NC
18	SCR_ID/WA_DET	IN	SCRAMBLE CONTROL INPUT (SCRAMBLE:H) / NC
19	IND(R)	IN	AUDIO INPUT (RCH) FOR THE FDP AUDIO INDICATOR
20	BS_ANT/AFC	IN	NC / TUNING CHECK
21	LED/RF AGC	IN	NC / CHANGES IN ATS+IC OUTPUT AS CAUSED BY CHANGES IN RECEIVER SENSITIVITY WHEN THE SAME CHANNEL IS RECEIVED MORE THAN ONCE ARE INPUT
22	A.ENV/IND(L)	IN	AUDIO PB FM ENV.INPUT/NON HiFi MODEL: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)/P.SAVE[0.1]	IN	TUNING PLL LOCK DETECT:L / NC
31	P50_IN	IN	CONTROL SIGANAL FOR TV LINK
32	R.PAUSE/COMPU_IN	IN	REMOTE PAUSE CONTROL / NC
33	RAE_OUT/COMPUOUT	-	NC
34	P50_OUT	OUT	CONTROL SIGANAL FOR TV LINK
35	LMC1	OUT	LOADING MOTOR DRIVE(1)
36	LMC2	OUT	LOADING MOTOR DRIVE(2)
37	LMC3	OUT	LOADING MOTOR DRIVE(3)
38	SB_G(PWM)	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	HP_CTL	-	NC
42	PROTECT	IN	DETECTION SIGNAL FOR SW POWER SUPPLY
43	VSS	-	GND
44	RMO	OUT	REMOTE CONTORL OUTPUT FOR SATELLITE RECEIVER
45	VCC	-	SYSTEM POWER
46	EXP2_DATA	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR TUNER/REG CONTORL
47	EXP1_DATA	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR AUDIO/VIDEO CONTORL
48	EXP_CLK	OUT	SERIAL DATA TRANSFER CLOCK FOR AUDIO/VIDEO AND TUNER/REG CONTORL
49	I2C_DATA_A/V	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR VIDEO/AUDIO IC
50	I2C_CLK_A/V	OUT	SERIAL DATA TRANSFER CLOCK FOR 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	NC	-	NC
57	NC	-	NC
58	N.REC_ST(H)	OUT	NORMAL AUDIO SOUND RECORDING START
59	JUST_CLK/SECAM(H)	OUT	NC [HR-S9850EU/EK] NC / COLOUR SYSTEM SECAM:H [HR-S9850MS]
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	NC	-	NC
78	NC	-	NC
79	REC_SAFETY	IN	REC SAFETY SWITCH DETECT (SW ON:L)
80	V.P.CTL	OUT	V.PULSE CONTROL, V COMPENSATION DURING SPECIAL PLAYBACK
81	R-Y_REV/EDS_CS/EXT(L)	OUT	PAL EP MODE CONTROL / NC / NC
82	VCC	-	SYSTEM POWER
83	SLOW_P	-	NC
84	VSS	-	GND
85	SP_SHORT(H)	-	NC
86	LP_SHORT(H)	-	NC
87	FLY_ON(H)	OUT	FLY REC START: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	SYNC_DET(H)	IN	DETECTION OF VIDEO SYNC SIGNAL (DETECTED:H)
93	MESECAM(H)	OUT	MESECAM:H
94	JSB/STLB	IN	INPUT FOR THE ADV. JOG
95	SHTL(L)/JOGA	-	NC
96	JOGB/S_CASS(H)	-	NC
97	JSA/STLA	IN	INPUT FOR THE ADV. JOG
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	SUB_RESET	OUT	RESET SIGNAL FOR THE SUB CPU (NAVI)
104	HI_FF/REW(L)	OUT	HIGH SPEED FF/REW:L
105	SUB_BUSY	IN	SUB CPU (NAVI) BUSY
106	SUB_CS	OUT	CHIP SELECT FOR THE SUB CPU (NAVI)
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 REFFERENCE VOLTAGE

4.25 WAVEFORMS

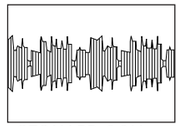
< S-SUB > **# : Only used for HR-S9850MS**

WF1-1 CN511-9



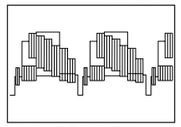
PAL PB 1.3 Vp-p
50 mV/20 µsec/DIV

 # WF1-2 CN511-9



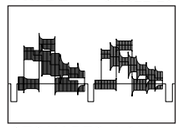
SECAM PB 0.9 Vp-p
50 mV/20 µsec/DIV

WF2-1 CN511-10



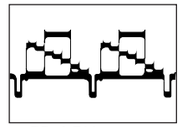
PAL REC 1.7 Vp-p
50 mV/20 µsec/DIV

 # WF2-2 CN511-10



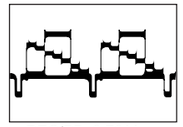
SECAM REC 1.8 Vp-p
50 mV/20 µsec/DIV

WF2-3 CN511-10



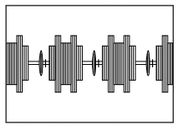
PB 1.7 Vp-p
50 mV/20 µsec/DIV

WF3 CN511-11



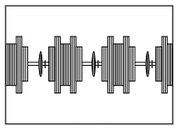
REC/PB 0.76 Vp-p
20 mV/20 µsec/DIV

WF4-1 CN511-12



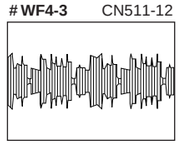
PAL REC 0.48 Vp-p
20 mV/20 µsec/DIV

WF4-2 CN511-12



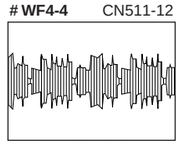
PAL PB 0.7 Vp-p
20 mV/20 µsec/DIV

 # WF4-3 CN511-12



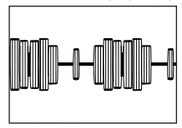
SECAM REC 0.36 Vp-p
10 mV/20 µsec/DIV

 # WF4-4 CN511-12



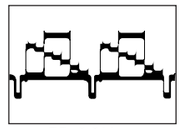
SECAM PB 0.46 Vp-p
10 mV/20 µsec/DIV

WF5 CN511-13



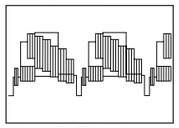
PAL PB 0.6 Vp-p
20 mV/20 µsec/DIV

WF6 CN511-17



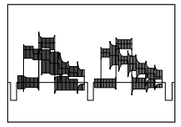
PB 2.2 Vp-p
50 mV/20 µsec/DIV

WF7-1 CN511-25



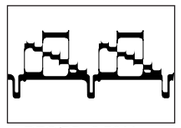
PAL REC/PB 2.2 Vp-p
50 mV/20 µsec/DIV

 # WF7-2 CN511-25



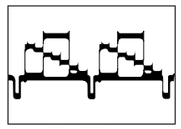
SECAM REC/PB 2.4 Vp-p
50 mV/20 µsec/DIV

WF8 CN511-27



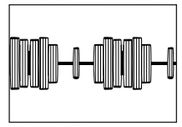
REC/PB 0.52 Vp-p
20 mV/20 µsec/DIV

WF9 CN511-29



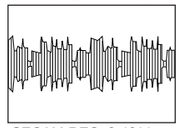
PB 0.5 Vp-p
20 mV/20 µsec/DIV

WF10-1 CN511-30



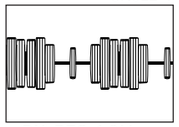
PAL REC 0.6 Vp-p
20 mV/20 µsec/DIV

 # WF10-2 CN511-30



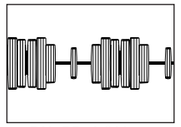
SECAM REC 0.46 Vp-p
10 mV/20 µsec/DIV

WF11-1 CN512-4



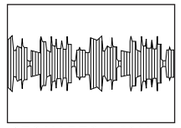
PAL REC 1.2 Vp-p
50 mV/20 µsec/DIV

WF11-2 CN512-4



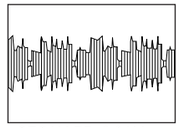
PAL PB 1.3 Vp-p
50 mV/20 µsec/DIV

 # WF11-3 CN512-4



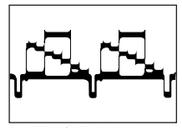
SECAM REC 0.92 Vp-p
20 mV/20 µsec/DIV

 # WF11-4 CN512-4



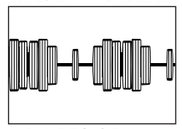
SECAM PB 0.84 Vp-p
20 mV/20 µsec/DIV

WF12 CN512-6



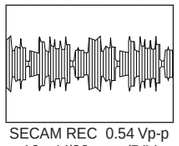
REC/PB 2.2 Vp-p
50 mV/20 µsec/DIV

WF13-1 CN512-12



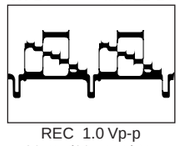
PAL REC 0.7 Vp-p
20 mV/20 µsec/DIV

 # WF13-2 CN512-12



SECAM REC 0.54 Vp-p
10 mV/20 µsec/DIV

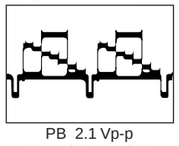
WF14 CN512-14



REC 1.0 Vp-p
20 mV/20 µsec/DIV

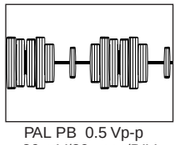
< VIDEO > **# : Only used for HR-S9850MS**

WF1 IC1-27



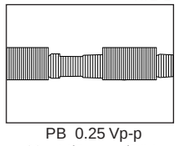
PB 2.1 Vp-p
50 mV/20 µsec/DIV

WF2 IC1-30



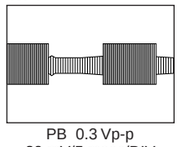
PAL PB 0.5 Vp-p
20 mV/20 µsec/DIV

WF3 IC1-1



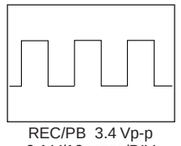
PB 0.25 Vp-p
20 mV/5 msec/DIV

WF4 TP106 PB.FM



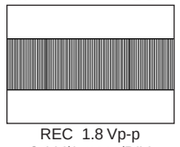
PB 0.3 Vp-p
20 mV/5 msec/DIV

WF5 TP111 D.FF



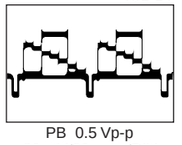
REC/PB 3.4 Vp-p
0.1 V/10 msec/DIV

WF6 IC1-105



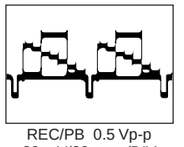
REC 1.8 Vp-p
0.1 V/1 msec/DIV

WF7 IC1-14



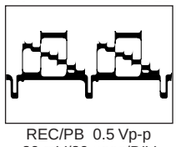
PB 0.5 Vp-p
20 mV/20 µsec/DIV

WF8 IC1-13



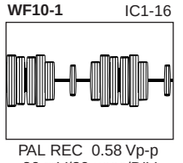
REC/PB 0.5 Vp-p
20 mV/20 µsec/DIV

WF9 IC1-11



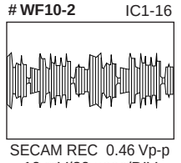
REC/PB 0.5 Vp-p
20 mV/20 µsec/DIV

WF10-1 IC1-16



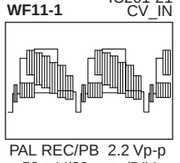
PAL REC 0.58 Vp-p
20 mV/20 µsec/DIV

 # WF10-2 IC1-16



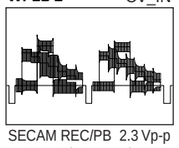
SECAM REC 0.46 Vp-p
10 mV/20 µsec/DIV

WF11-1 IC201-21 CV_IN



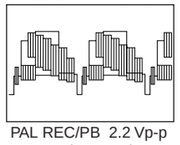
PAL REC/PB 2.2 Vp-p
50 mV/20 µsec/DIV

WF11-2 IC201-21 CV_IN



SECAM REC/PB 2.3 Vp-p
50 mV/20 µsec/DIV

WF12-1 IC201-19 CVOUT



PAL REC/PB 2.2 Vp-p
50 mV/20 µsec/DIV

 # WF12-2 IC201-19 CVOUT

SECAM REC/PB 2.3 Vp-p
50 mV/20 µsec/DIV

 # WF13 CN302-1

SECAM PB 0.44 Vp-p
20 mV/20 µsec/DIV

 # WF14 CN302-2

SECAM REC/PB 2.4 Vp-p
50 mV/20 µsec/DIV

 # WF15 CN301-4

SECAM REC 0.44 Vp-p
10 mV/20 µsec/DIV

 # WF16 CN301-5

SECAM PB 0.36 Vp-p
20 mV/1 msec/DIV

< P/S CONVERTER>
[HR-S9850MS]

WF1 CN3502-1 FROM_PS_Y

REC/PB 0.25 Vp-p
10 mV/20 µsec/DIV

WF2 CN3502-3 TO_PS_Y

REC/PB 1.0 Vp-p
50 mV/20 µsec/DIV

WF3-1 CN3502-5 FROM_PS_C

PAL REC/PB 0.46 Vp-p
10 mV/20 µsec/DIV

WF3-2 CN3502-5 FROM_PS_C

SECAM REC/PB 0.64 Vp-p
20 mV/20 µsec/DIV

WF4-1 CN3502-7 TO_PS_C

PAL REC/PB 0.65 Vp-p
20 mV/20 µsec/DIV

WF4-2 CN3502-7 TO_PS_C

SECAM REC 0.52 Vp-p
20 mV/20 µsec/DIV

WF4-3 CN3502-7 TO_PS_C

SECAM PB 0.34 Vp-p
10 mV/20 µsec/DIV

4.26 VOLTAGE CHARTS

<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
IC3001		
1	2.0	2.4
2	0	0
3	0	2.4
4	2.4	0
5	0.1	0
6	2.4	0
7	0	2.3
8	0	0
9	4.8	4.8
10	4.8	4.8
11	0	0.2
12	0.5	1
13	0	1.8
14	4.6	4.5
15	4.5	0
16	0.5	0.5
17	0	0
18	0	0
19	0.6	0.6
20	4.4	4.3
21	0	3.8
22	1.9	1.7
23	0	0
24	4.7	4.8
25	0	0
26	4.8	0
27	4.8	4.8
28	4.8	4.8
29	4.8	4.8
30	0	0
31	4.8	4.8
32	0.5	0.5
33	0	0
34	0	0
35	0	0
36	0	0
37	0	0
38	0	4.8
39	4.1	4.2
40	0	0
41	0	0
42	4.3	4.3
43	0	0
44	0	0
45	4.8	4.8
46	0	0
47	0	0
48	0.2	0.1
49	4.0	4.0
50	4.5	4.5
51	4.8	4.8
52	1.0	1.0
53	4.2	0
54	2.4	2.4
55	2.4	2.4
56	4.8	4.8
57	4.8	4.8
58	4.8	0
59	0	0
60	4.8	4.8
61	4.8	0
62	0	0
63	0	0
64	1.4	1.4
65	0.8	0.7
66	4.8	0
67	0	2.3
68	0	0
69	2.3	2.3
70	4.8	4.8
71	0	4.8
72	4.7	4.8
73	4.7	4.8
74	0	0
75	0	4.4
76	0	4.5
77	0	0
78	0	0
79	4.8	4.8
80	0	0

MODE PIN NO.	REC	PLAY
81	0	0
82	4.8	4.8
83	2.4	2.4
84	0	0
85	0	0
86	0	4.8
87	4.8	0
88	4.8	0
89	0	0
90	0	0
91	2.7	2.6
92	4.8	4.8
93	0	0
94	0	0
95	0	0.8
96	0	0
97	0	0
98	0.3	0.4
99	0	0
100	2.4	2.4
101	2.6	2.6
102	1.2	1.2
103	4.8	4.8
104	0	0
105	4.7	4.7
106	0	4.6
107	0	0
108	0	1.2
109	0	4.8
110	0	0
111	0	0
112	0	0
IC3002		
1	4.9	4.9
2	4.9	4.9
3	0	0
IC3003		
1	0	0
2	0	0
3	0	0
4	0	0
5	4.6	4.6
6	4.5	4.5
7	0	0
8	4.9	4.9
IC3004		
1	11.4	11.4
2	0.2	0.2
3	0	0
4	0.2	0.2
5	11.4	11.4
6	11.4	11.4
7	0	0
8	0	0
9	0	0
IC3601		
1	0	0
2	0	0
3	0	0
4	0	3.9
5	4.5	4.5
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	4.8	4.8
14	3.6	3.6
15	0	0
16	4.9	4.9
IC3651		
1	0	0
2	0	0
3	0	0
4	0	0
5	3.1	3.1
6	4.5	4.5
7	0	0
8	0	0
9	0	
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	4.9	4.9
IC5101		
1	64.6	62.7
2	-	-
3	0	0
4	-	-
5	-	-
IC5301		
1	5.6	5.6
2	5.1	5.1
3	4.5	4.5
4	0	0
5	11.9	11.9

MODE PIN NO.	REC	PLAY
6	11.2	11.2
7	12.0	12.0
8	5.6	5.6
9	1.3	1.3
10	4.0	4.0
CN1		
1	0	0
2	0	0
3	0	0
4	0	0
5	2.4	2.2
6	2.4	2.2
7	2.4	2.2
8	2.4	2.2
9	2.7	2.2
10	2.7	2.2
11	2.7	2.2
12	0	0
13	0	0
CN301[HR-S9850M]		
1	2.4	2.4
2	0	0
3	0	5.1
4	2.5	0
5	4.9	2.7
6	0	0
CN302[HR-S9850MS]		
1	0	2.5
2	2.3	2.3
3	4.9	4.9
4	0.4	0.4
5	0	0
CN501		
1	2.4	2.4
2	0	0
3	2.1	2.3
4	4.9	4.9
5	2.0	2.1
6	0	4.4
7	3.3	3.3
8	0	0
9	0	2.8
10	0	0
11	0	4.6
12	4.0	4.0
13	0	0
14	0.7	0
15	2.4	2.4
16	0	0
17	2.4	2.4
CN502		
1	0.2	4.4
2	4.0	4.0
3	4.6	4.6
4	0	0
5	4.8	4.8
6	4.8	4.8
7	0	0
8	0	0
9	0	0
10	0	2.1
11	3.3	3.3
12	0	0
13	2.7	2.7
14	0	0
15	0	0
16	2.4	0
17	1.3	2.3
18	4.5	4.5
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	2.3	2.4
26	0	0
27	2.4	2.3
28	0	0
29	0	2.4
30	2.7	2.8
CN902		
1	0.2	0.2
2	0	0
3	0.2	0.2
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
CN903		
1	3.0	3.0
2	0	0
3	0	0
4	0.1	0.1
5	0	0
6	2.3	2.3
7	0	0

MODE PIN NO.	REC	PLAY
8	10.6	10.6
9	0	0
10	10.6	10.6
11	0.7	0.5
12	4.8	4.8
CN904		
1	0	0
2	4.5	4.5
3	4.8	4.8
4	0	0
5	2.8	2.8
6	4.2	4.2
7	1.0	1.0
8	0	0
9	0	0
10	4.1	4.1
11	0	0
12	2.7	2.7
CN905		
1	4.5	4.5
2	4.5	4.4
3	4.7	4.7
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	0
9	0	0
10	0	0
CN2001		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	2.1	2.4
7	2.1	2.4
CN2002		
1	0	0
2	0	0
CN2051		
1	7.2	0.2
2	0	0
3	0	0
4	0	0
CN3001		
1	11.9	12
2	0	0
3	1.3	1.3
4	0	0
5	1.2	1.2
CN3002		
1	0.3	0.3
2	0.3	0.3
CN3003		
1	0	0
2	2.4	2.4
3	2.5	2.5
4	4.9	4.9
5	0	0
6	4.8	4.8
7	0	0
8	11.1	11.2
CN3004		
1	4.8	4.8
2	4.8	4.8
3	0	0
4	0	0
CN3011		
1	4.8	4.8
2	0	0
3	4.7	4.8
4	4.8	4.8
5	4.2	4.2
6	4.8	4.8
7	1.1	1.1
8	4.1	4.1
9	4.8	4.8
10	0	0
11	0	0
12	-18	-18
13	-14.4	-14.4
14	-26.9	-26.9
CN3012		
1	0	0
2	0	0
3	0	0
4	4.8	4.8
CN6102[HR-S9850MS]		
1	0	0
2	0.3	4.9
3	0	0
4	0	0
5	0	0
6	0	0

MODE PIN NO.	REC	PLAY
7	11.4	11.4
8	11.4	11.4
9	4.9	0
10	0.3	0.3
CN6701		
1	0	0
2	4.5	4.5
3	4.5	4.5
4	4.8	4.8
5	0.2	0.2
6	0.2	0.2
7	4.8	4.8
8	0	0
9	0	0
10	0	0
CN7103		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	2.3	2.3
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	3.9	3.9
13	5.0	5.0

<3D/TBC(2M)>

MODE PIN NO.	REC	PLAY
IC1401	-	-
CN1201		
1	2.4	2.4
2	0	0
3	2.1	2.3
4	4.9	4.9
5	2.0	2.1
6	0	4.4
7	3.3	3.3
8	0	0
9	0	2.8
10	0	0
11	0	4.6
12	4.0	4.0
13	0	0
14	0.7	0
15	2.4	2.4
16	0	0
17	2.4	2.4

<TERMINAL>

MODE PIN NO.	REC	PLAY
IC201		
1	0	0
2	2.5	2.5
3	4.9	4.9
4	0	0
5	4.4	4.4
6	2.4	2.4
7	2.4	2.4
8	4.9	4.9
9	3.3	3.3
10	4.2	4.2
11	1.6	1.6
12	4.9	4.9
13	2.7	2.7
14	2.7	2.7
15	0	0
16	1.2	1.2
17	0	0
18	4.9	4.9
19	2.3	2.3
20	0	0
21	2.3	2.3
22	0.5	0.5
23	4.9	4.9
24	2.9	2.9
25	2.5	2.5
26	4.9	4.9
27	4.6	4.6
28	3.5	3.5
29	4.9	4.9
30	4.9	4.9
IC901	-	-
CN911		
1	0	0
2	3.0	3.1
3	0	0
4	2.4	2.4
5	0	0
6	2.4	2.3
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	5.4	5.4
13	0	0
14	0.1	0.1
CN912		
1	5.0	5.0
2	4.4	4.4
3	4.0	4.0
4	5.0	5.0
5	0	0
6	0.3	0.3
7	5.0	5.0
8	5.0	5.0
CN913		
1	3.0	3.0
2	0	0
3	0	0
4	0.1	0.1
5	0	0
6	2.3	2.3
7	0	0
8	10.6	10.6
9	0	0
10	10.6	10.6
11	0.7	0.5
12	4.8	4.8
CN914		
1	0	0
2	4.5	4.5
3	4.8	4.8
4	0	0
5	2.8	2.8
6	4.2	4.2
7	1.0	1.0
8	0	0
9	0	0
10	4.1	4.1
11	0	0
12	2.7	2.7
CN915		
1	4.5	4.5
2	4.5	4.4
3	4.7	4.7
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
8	0	0
9	0	0
10	0	0

<DEMOD>

MODE PIN NO.	REC	PLAY
IC6701		
1	4.3	4.3
2	1.5	1.5
3	1.5	1.5
4	0	0
5	2.0	2.0
6	1.9	1.9
7	0.2	0.2
8	0	0
9	0	0
10	3.6	3.6
11	3.6	3.6
12	4.5	4.5
13	4.5	4.5
14	2.2	2.2
15	2.1	2.1
16	0	0
17	0.3	0.3
18	0.3	0.3
19	4.5	4.5
20	0	0
21	0.3	0.3
22	4.7	4.7
23	0	0
24	0	0
25	0	0
26	0	0
27	0	0
28	0	0
29	0	0
30	2.4	2.4
31	2.4	2.4
32	0	0
33	4.7	4.7
34	3.8	3.8
35	0	0
36	2.4	2.4
37	0	0
38	0	0
39	0	0
40	0	0
41	0	0
42	2.5	2.5
43	2.4	2.4
44	0	0
CN6701		
1	0	0
2	4.5	4.5
3	4.5	4.5
4	4.8	4.8
5	0.2	0.2
6	0.2	0.2
7	4.8	4.8
8	0	0
9	0	0
10	0	0

<S-SUB>

MODE PIN NO.	REC	PLAY
IC501	-	-
IC502	-	-
CN511		
1	0.2	4.4
2	4.0	4.0
3	4.6	4.6
4	0	0
5	4.8	4.8
6	4.8	4.8
7	0	0
8	0	0
9	0	0
10	0	2.1
11	3.3	3.3
12	0	0
13	2.7	2.7
14	0	0
15	0	0
16	2.4	0
17	1.3	2.3
18	4.5	4.5
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	2.3	2.4
26	0	0
27	2.4	2.3
28	0	0
29	0	2.4
30	2.7	2.8
CN512		
1	0	0
2	3.0	3.1
3	0	0
4	2.4	2.4
5	0	0
6	2.4	2.3
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	5.4	5.4
13	0	0
14	0.1	0.1
CN513[HR-S9850MS]		
1	4.9	4.9
2	4.9	4.9
3	2.8	2.8
4	0	0
5	5.6	5.6
6	0	0
7	2.3	2.3
8	0	0
9	1.2	1.2

<NAVIGATION>

MODE PIN NO.	REC	PLAY
IC3301	-	-
IC3401		
1	0.4	0.4
2	4	4
3	5	5
4	5	5
5	5	5
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	0.3
14	4.4	4.4
15	3.9	3.9
16	5.0	5.0
IC3402		
1	0.1	0.3
2	5.0	5.0
3	0	0.3
4	0	0.3
5	0	0.3
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	0.3
14	5.0	5.0
15	5.0	5.0
16	5.0	5.0
IC3403	-	-
IC3405		
1	0	0
2	5.0	5.0
3	5.0	5.0
4	0	0
5	5.0	5.0
6	5.0	5.0
7	0	0
8	5.0	5.0
IC3406		
1	0	0
2	5.0	5.0
3	5.0	5.0
4	0	0
5	5.0	5.0
6	5.0	5.0
7	0	0
8	5.0	5.0
CN3401		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	2.3	2.3
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	3.9	3.9
13	5.0	5.0
CN3402		
1	5.0	5.0
2	5.0	5.0
3	0.3	0.3
4	0	0
5	5.0	5.0
6	4.0	4.0
7	4.4	4.4
8	5.0	5.0

<SW/DISPLAY>

MODE PIN NO.	REC	PLAY
IC7001		
1	4.9	4.9
2	0	0
3	0	0
4	0	0
5	1.6	1.6
6	0	0
7	0	0
8	4.2	4.2
9	3.9	3.9
10	0	0
11	0	0
12	0	0
13	0	0
14	4.9	4.9
15	-8.3	-15.5
16	-13.3	-17.2
17	-13.3	-13.3
18	-21.1	-17.2
19	-13.3	-13.3
20	-13.3	-13.3
21	-18	-14
22-43	-	-
44	2.7	2.7
IC7002		
1	5.0	5.0
2	5.0	5.0
3	0	0
CN7001		
1	-26.9	-26.9
2	-14.4	-14.4
3	-18	-18
4	0	0
5	0	0
6	4.8	4.8
7	4.1	4.1
8	1.1	1.1
9	4.8	4.8
10	4.2	4.2
11	4.8	4.8
12	4.7	4.8
13	0	0
14	4.8	4.8
FW7001		
1	5.1	5.1
2	0	0

<REC. SAFETY>

MODE PIN NO.	REC	PLAY
FW7001		
1	5.1	5.1
2	0	0

<JACK>

MODE PIN NO.	REC	PLAY
CN7191		
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	0.2	0.2
10	0	0
11	0.2	0.2

<ADV. JOG>

MODE PIN NO.	REC	PLAY
CN7004		
1	4.8	4.8
2	0	0
3	0	0
4	0	0

<AUDIO ERASE>

MODE PIN NO.	REC	PLAY
CN2052		
1	7.2	0.2
2	0	0
3	0	0
4	0	0

<SECAM>[HR-S9850MS]

MODE PIN NO.	REC	PLAY
IC301	-	-
CN301		
1	0	0
2	2.3	2.3
3	4.9	4.9
4	0.4	0.4
5	0	0
CN302		
1	2.4	2.4
2	0	0
3	0	0
4	2.5	2.5
5	4.9	4.9
6	0	0

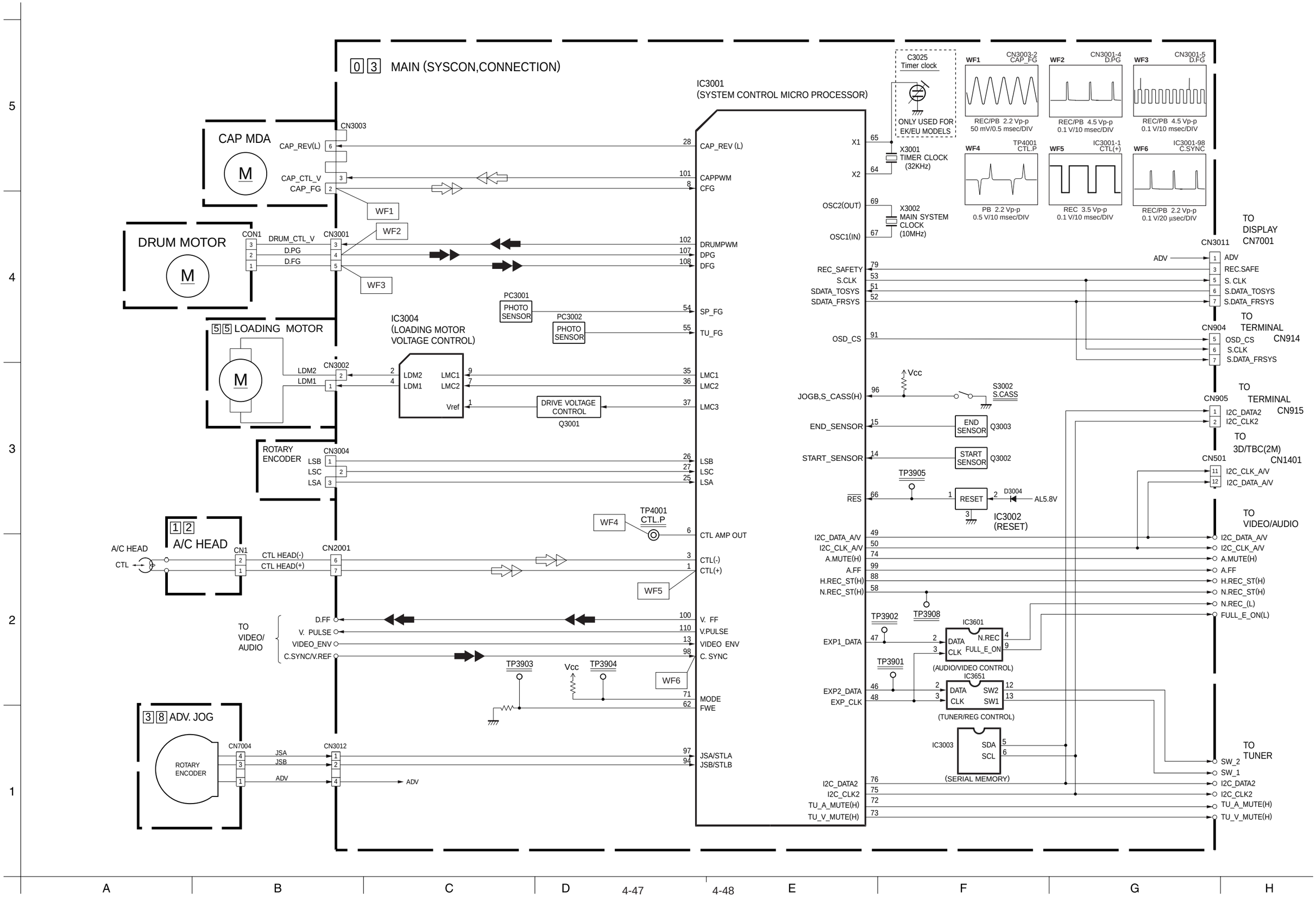
<P/S CONVERTER>[HR-S9850MS]

MODE PIN NO.	REC	PLAY
IC3502		
1	6.2	6.2
2	6.8	6.8
3	6.2	6.2
4	6.8	6.8
5	9.1	9.1
6	9.3	9.3
7	3.9	3.9
8	3.0	3.0
9	3.0	3.0
10	3.9	3.9
11	0	0
12	2.2	2.2
13	11.0	11.0
14	5.4	5.4
15	3.3	3.3
16	7.5	7.5
17	2.8	2.8
18	7.3	7.3
19	2.3	2.3
20	7.3	7.3
21	2.1	2.1
22	3.6	3.6
23	7.2	7.2
24	1.3	1.3
25	0	0
26	0	0
27	0	0
28	5.5	11.0
IC3503		
1	4.9	4.9
2	0	0
3	0	0
4	0	0
5	0.6	0.6
6	0	0
7	0	0
8	0	0
9	4.9	4.9
10	0	0
11	2.9	2.9
12	2.9	2.9
13	0	0
14	1.4	1.4
15	0	0
16	1.4	1.4
IC3504		
1	0	0
2	0.7	0.7
3	9.9	9.9
4	2.2	2.2
5	0	0
6	1.2	1.2
7	0	0
8	5.9	5.9
9	0	0
10	5.7	5.7
11	1.7	1.7
12	6.6	6.6
13	0	0
14	5.7	5.7
15	11.4	11.4
16	5.7	5.7
17	5.1	5.1
18	5.1	5.1
IC3505		
1	2.5	2.5
2	0	0
3	2.5	2.5
4	2.4	2.4
5	2.3	2.3
6	4.7	4.7
7	2.4	2.4
8	4.7	4.7
9	2.2	2.2
10	0	0
11	2.2	2.2
12	0	0
13	2.4	2.4
14	2.2	2.2
15	2.3	2.3
16	0.9	0.9
17	2.5	2.5
18	2.6	2.6
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	2.4	2.4
25	0.4	0.4
26	4.7	4.7
27	1.9	1.9
28	0	0
29	2.2	2.2
30	0	0
31	2.5	2.5
32	4.8	4.8
IC3506		
1	2.5	2.5
2	0	0

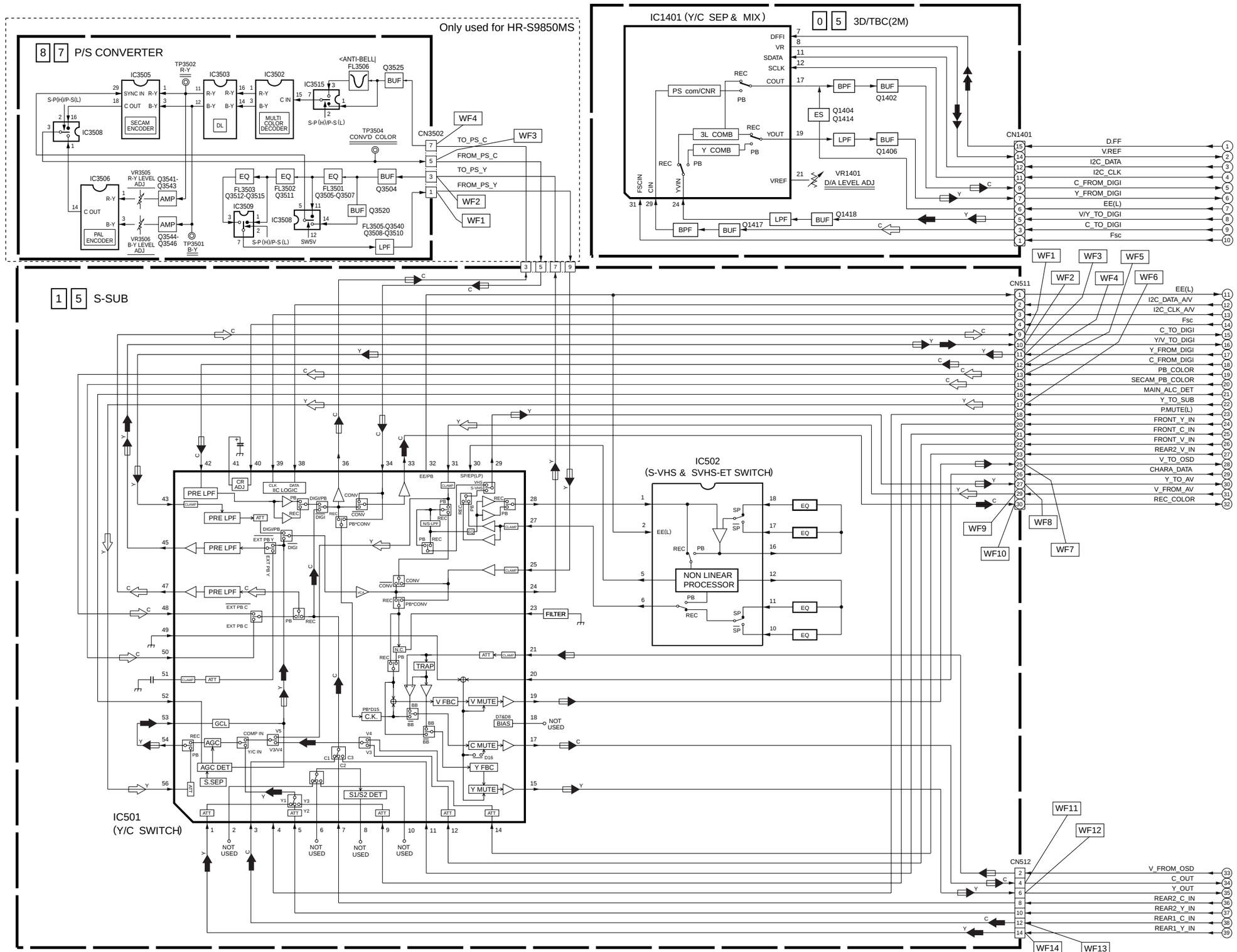
MODE PIN NO.	REC	PLAY
3	2.5	2.5
4	2.4	2.4
5	2.1	2.1
6	2.0	2.0
7	2.2	2.2
8	4.8	4.8
9	2.2	2.2
10	0	0
11	2.2	2.2
12	2.0	2.0
13	2.5	2.5
14	1.8	1.8
15	0.9	0.9
16	0.7	0.7
17	0	0
18	0	0
19	0	0
20	0	0
21	2.5	2.5
22	2.0	2.0
23	1.3	1.3
24	2.0	2.0
IC3508		
1	6.3	6.3
2	0	0
3	5.6	5.6
4	0	0
5	2.8	2.8
6	2.5	2.5
7	0	0
8	3.1	3.1
9	3.2	3.2
10	0	0
11	3.6	3.6
12	4.8	4.8
13	11.3	11.3
14	3.5	3.5
15	0	0
16	6.3	6.3
IC3509		
1	6.3	6.3
2	0	0
3	6.3	6.3
4	0	0
5	0	0
6	11.2	11.2
7	5.6	5.6
8	0	0
IC3510		
1	5.5	11.0
2	11.3	11.0
3	0	0
4	0	0
5	0	11.3
6	0	11.3
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	11.3
14	11.3	11.3
IC3512		
1	4.9	4.9
2	2.4	2.4
3	4.2	4.2
4	4.9	4.9
5	2.4	2.4
6	2.4	2.4
7	0	0
8	4.8	4.8
9	0	0
10	4.9	4.9
11	0.5	0.5
12	3.9	3.9
13	4.9	4.9
14	4.9	4.9
IC3513		
1	0	0
2	4.4	4.4
3	4.9	4.9
4	2.2	2.2
5	4.9	4.9
6	0.7	0.7
7	4.2	4.2
8	0	0
9	1.0	1.0
10	3.9	3.9
11	4.9	4.9
12	0.6	0.6
13	4.9	4.9
14	2.0	2.0
15	0	0
16	4.9	4.9
IC3514		
1	0	0
2	0.6	0.6
3	4.9	4.9
4	0.6	0.6
5	0.3	0.3

MODE PIN NO.	REC	PLAY
6	0	0
7	4.6	4.6
8	0	0
9	0	0
10	4.2	4.2
11	4.9	4.9
12	4.6	4.6
13	4.2	4.2
14	0	0
15	2.6	2.6
16	4.9	4.9
IC3515		
1	6.3	6.3
2	0	0
3	6.3	6.3
4	0	0
5	0	0
6	11.3	11.3
7	5.6	5.6
8	0	0
IC3517		
1	2.0	2.0
2	4.3	4.3
3	0.6	0.6
4	4.8	4.8
5	0	0
6	2.1	2.1
7	4.9	4.9
8	2.5	2.5
IC3518		
1	3.9	3.9
2	0	0
3	0	0
4	0.3	0.3
5	11.0	11.0
CN3501		
11	0.3	0.3
12	4.9	0
13	11.4	11.4
14	11.4	11.4
15	0	0
16	0	0
17	0	0
18	0	0
19	0.3	4.9
20	0	0
CN3502		
1	1.2	1.2
2	0	0
3	2.3	2.3
4	0	0
5	5.6	5.6
6	0	0
7	2.8	2.8
8	4.9	4.9
9	4.9	4.9

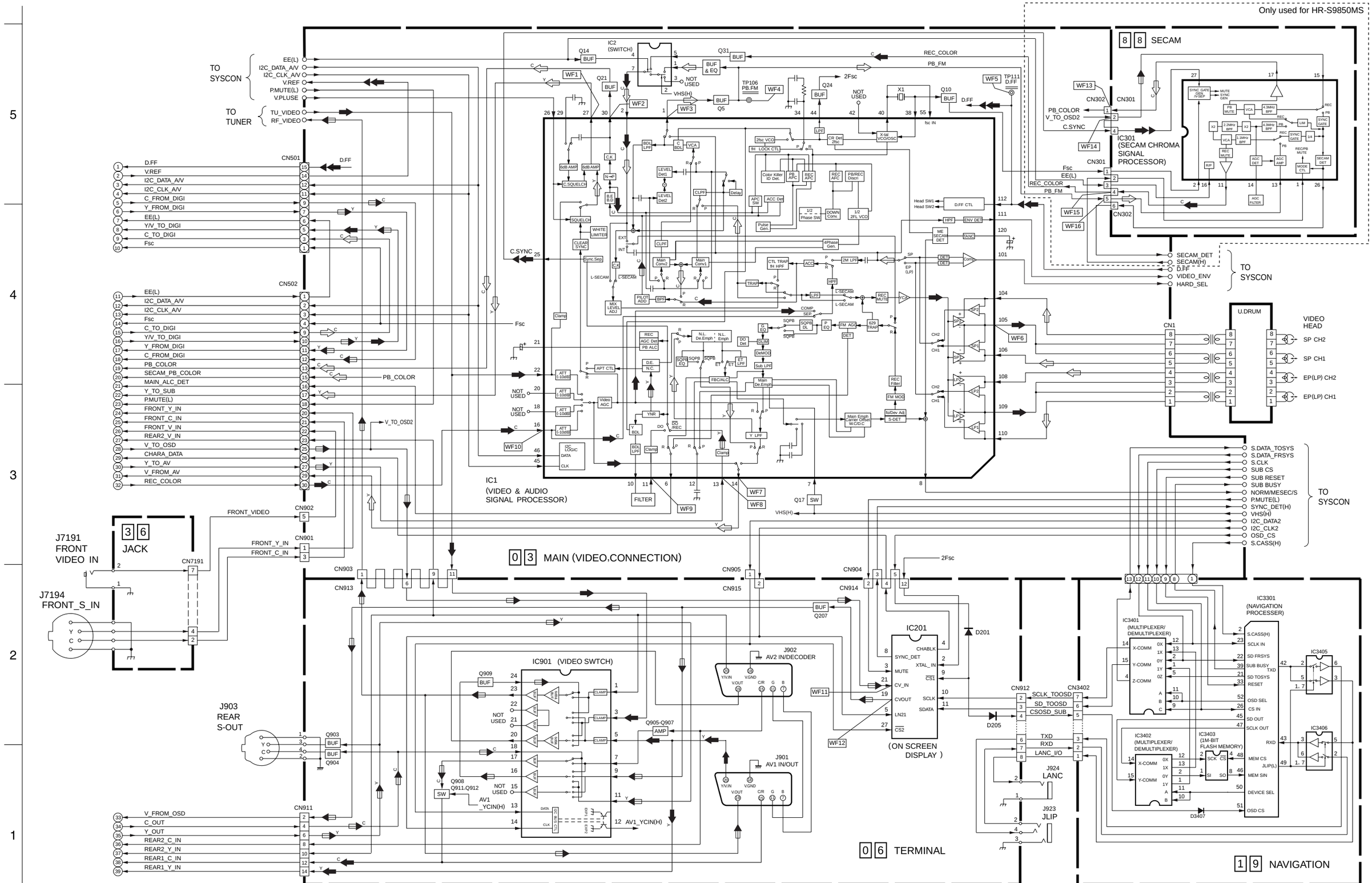
4.27 SYSTEM BLOCK DIAGRAM



4.28 VIDEO BLOCK DIAGRAM

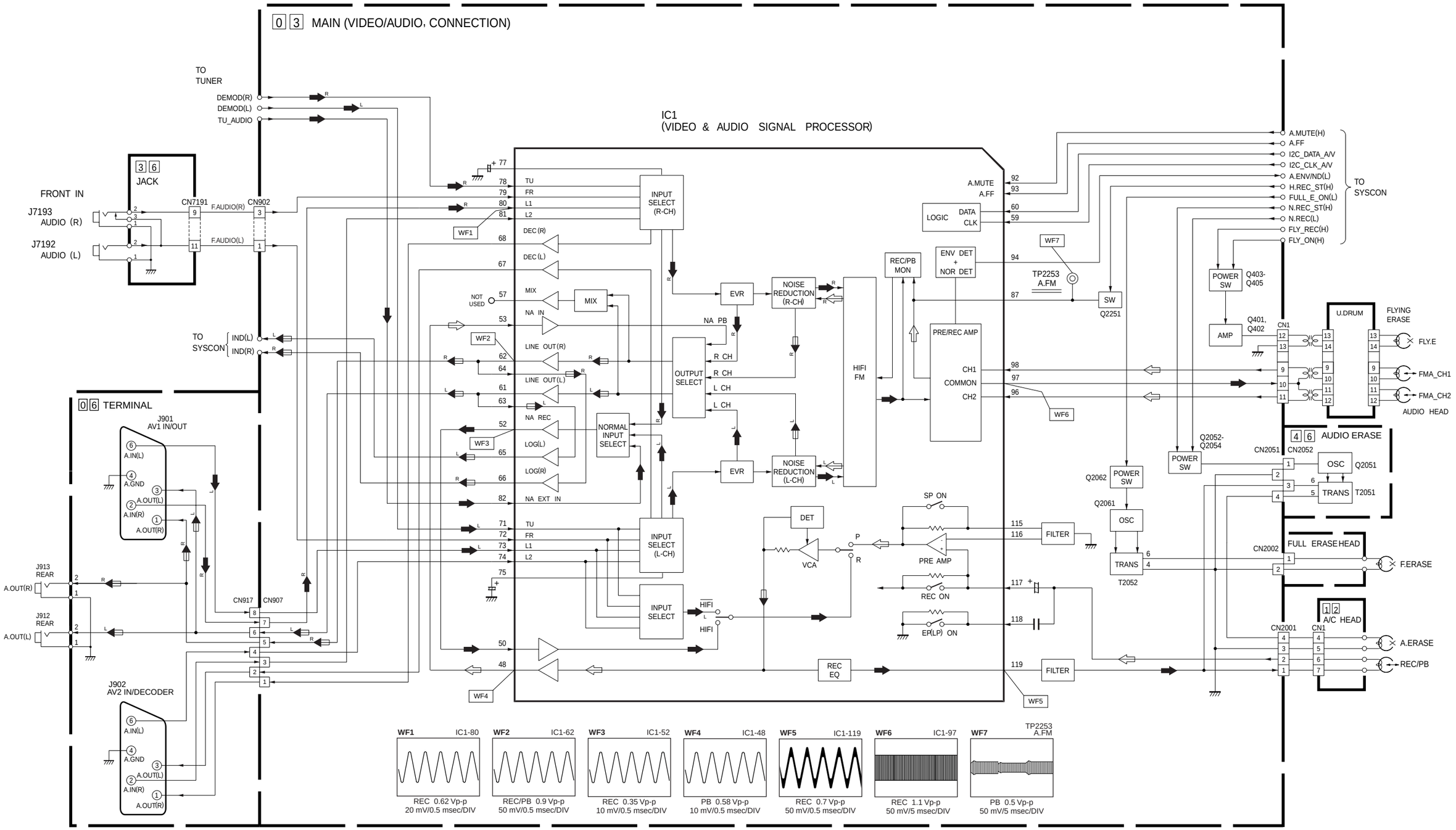


Note : For the waveforms in this block diagram, refer to page 4-43.



Note : For the waveforms in this block diagram, refer to page 4-43.

4.29 AUDIO BLOCK DIAGRAM



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E & O.E. No.82889
(VP)-V14S35