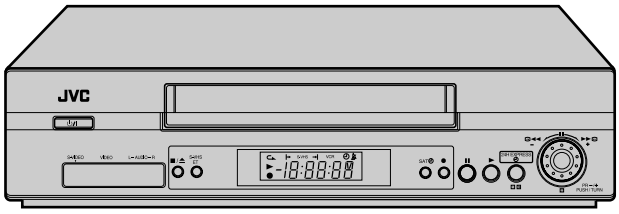
JVC

SCHEMATIC DIAGRAMS

VIDEO CASSETTE RECORDER

HR-S6950EU, HR-S6955MS, HR-S7950EU, HR-S7955EK, HR-S7955MS

CD-ROM No.SML200207



SHOWVIEW® DELUXE
Hi-Fi S-VHS 625
Super VHS ET

SPECIFICATIONS *(The specifications shown pertain specifically to the model HR-S7950EU.)*

GENERAL

Power requirement : AC 220 V – 240 V~, 50 Hz/60 Hz
Power consumption
  Power on : 18 W
  Power off : 3.6 W
Temperature
  Operating : 5°C to 40°C
  Storage : –20°C to 60°C
Operating position : Horizontal only
Dimensions (WxHxD)
  : 400 mm x 94 mm x 270 mm
Weight : 3.4 kg
Format : S-VHS/VHS PAL standard
Maximum recording time
  (SP) : 240 min. with E-240 video cassette
  (LP) : 480 min. with E-240 video cassette
  (EP) : 720 min. with E-240 video cassette

VIDEO/AUDIO

Signal system : PAL-type colour signal and CCIR monochrome signal, 625 lines 50 fields
Recording system : DA4 (Double Azimuth) head helical scan system
Signal-to-noise ratio: 45 dB
Horizontal resolution
  (SP/LP) : 250 lines (VHS)
  400 lines (S-VHS)
  (EP) : 220 lines (VHS)
  350 lines (S-VHS)
Frequency range : 70 Hz to 10,000 Hz (Normal audio)
  20 Hz to 20,000 Hz (Hi-Fi audio)

Input/Output : 21-pin SCART connectors:
  IN/OUT x 1, IN/DECODER x 1
  RCA connectors:
  VIDEO IN x 1, AUDIO IN x 1,
  AUDIO OUT x 1
  S-Video connector:
  IN x 1, OUT x 1

TUNER/TIMER

TV channel storage capacity
  : 99 positions (+AUX position)
Tuning system : Frequency synthesized tuner
Channel coverage : VHF 47 MHz – 89 MHz/
  104 MHz – 300 MHz/
  302 MHz – 470 MHz
  UHF 470 MHz – 862 MHz
Aerial output : UHF channels 22 – 69 (Adjustable)
Memory backup time
  : Approx. 10 min.

ACCESSORIES

Provided accessories
  : RF cable,
  Infrared remote control unit,
  "R6" battery x 2

Specifications shown are for SP mode unless otherwise specified.
E.& O.E. Design and specifications subject to change without notice.

V15S1/S2/S15

No.82923SCH
June 2002

SECTION 4
CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

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

1. Units of components on the schematic diagram

Unless otherwise specified.

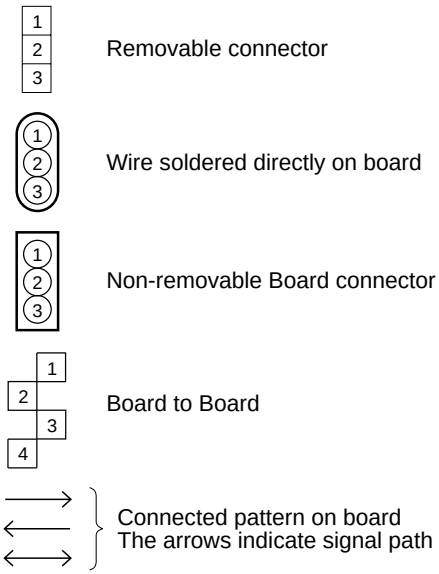
1) All resistance values are in ohm, 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ (1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in µF, (P: PF).
3) All inductance values are in µH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

AUX : Active at high

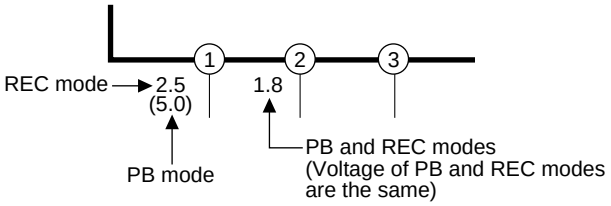
$\overline{\text{AUX}}$ or AUX(L) : Active at low

3. Interpreting Connector indications



4. Voltage measurement

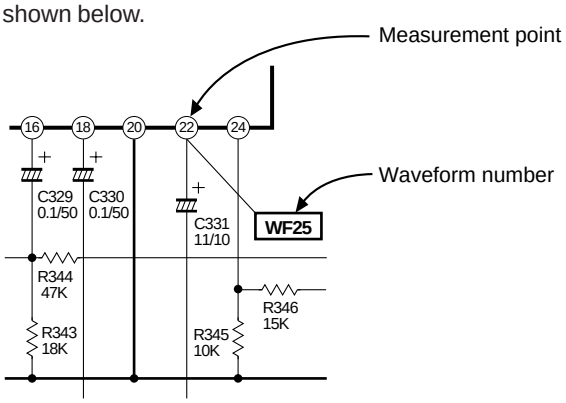
1) Video circuits
   REC : Colour bar signal in SP mode, normal VHS mode
   PB : Alignment tape, colour bar SP mode, normal VHS mode
   — : Unmeasurable or unnecessary to measure
2) Audio circuits
   REC : 1KHz, –8 dBs sine wave signal in SP mode, Normal VHS mode
   PB : REC then playback it
3) Movie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



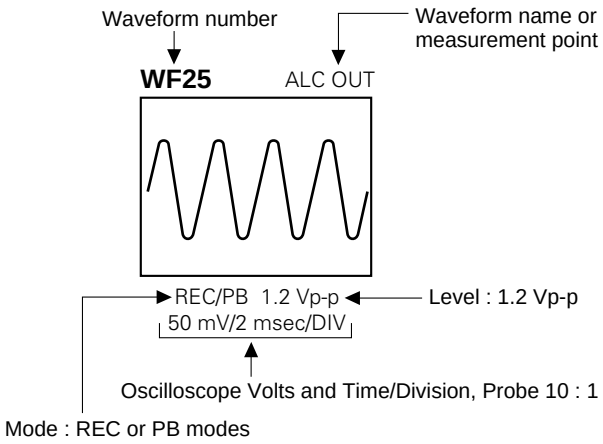
Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

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

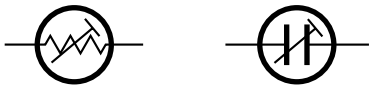
(Example)

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.

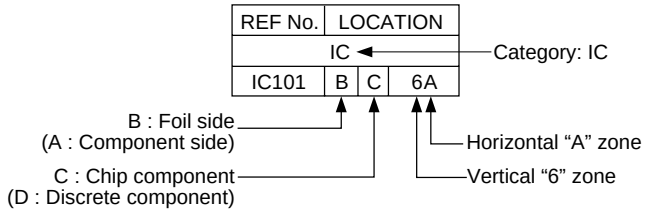
CIRCUIT BOARD NOTES

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

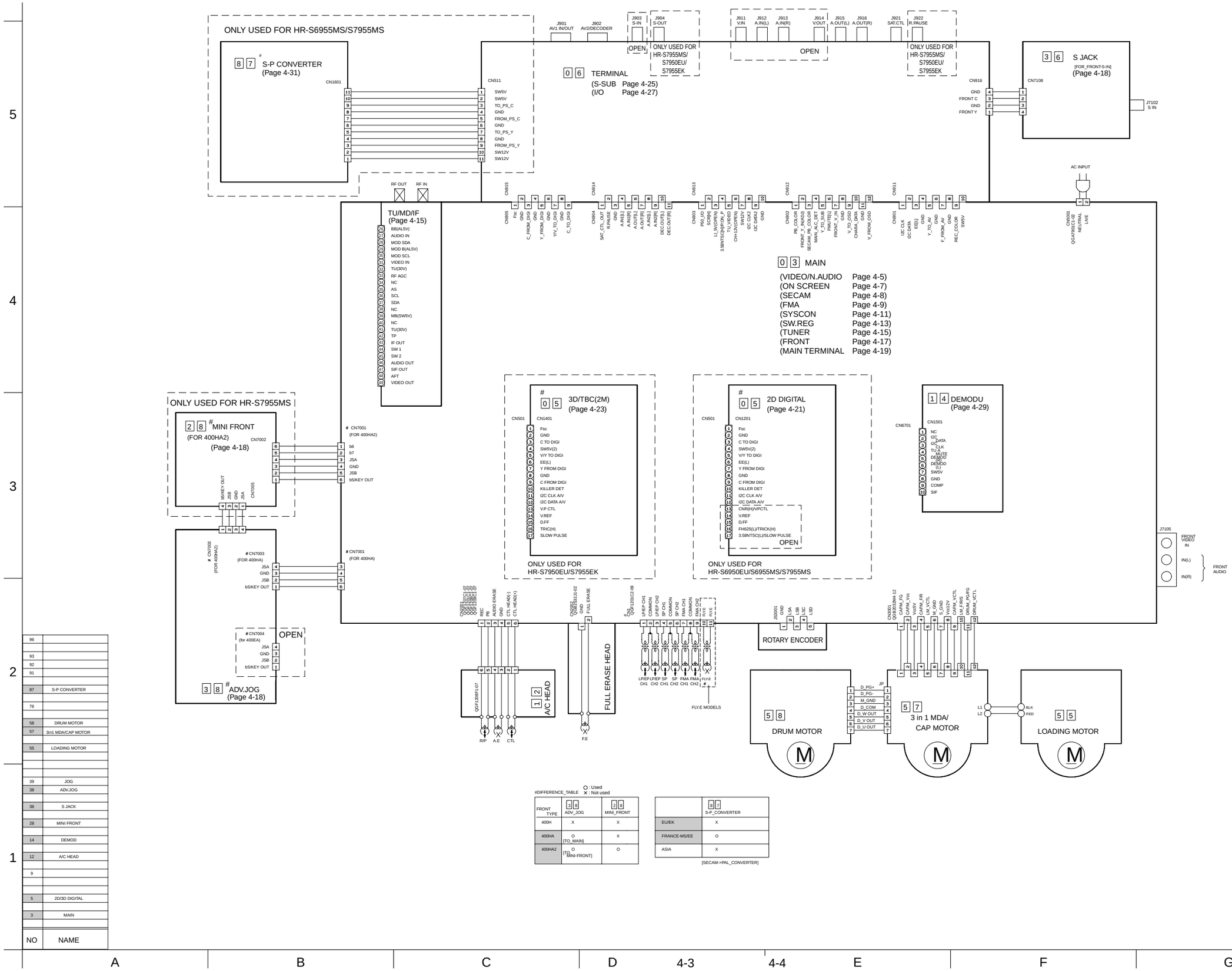
Parts location are indicated by guide scale on the circuit board.



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



FRONT TYPE	3 8 ADV_JOG	2 8 MINI_FRONT
400H	X	X
400HA	O [TO_MAIN]	X
400HA2	O [TO_MAIN]	O [MINI-FRONT]

	8 7 S-P_CONVERTER
EU/EK	X
FRANCE-MS/EE	O
ASIA	X

NO	NAME
96	
93	
92	
91	
87	S-P CONVERTER
76	
58	DRUM MOTOR
57	3in1 MDA/CAP MOTOR
55	LOADING MOTOR
39	JOG
38	ADV.JOG
36	S JACK
28	MINI FRONT
14	DEMOD
12	A/C HEAD
9	
5	2D/3D DIGITAL
3	MAIN

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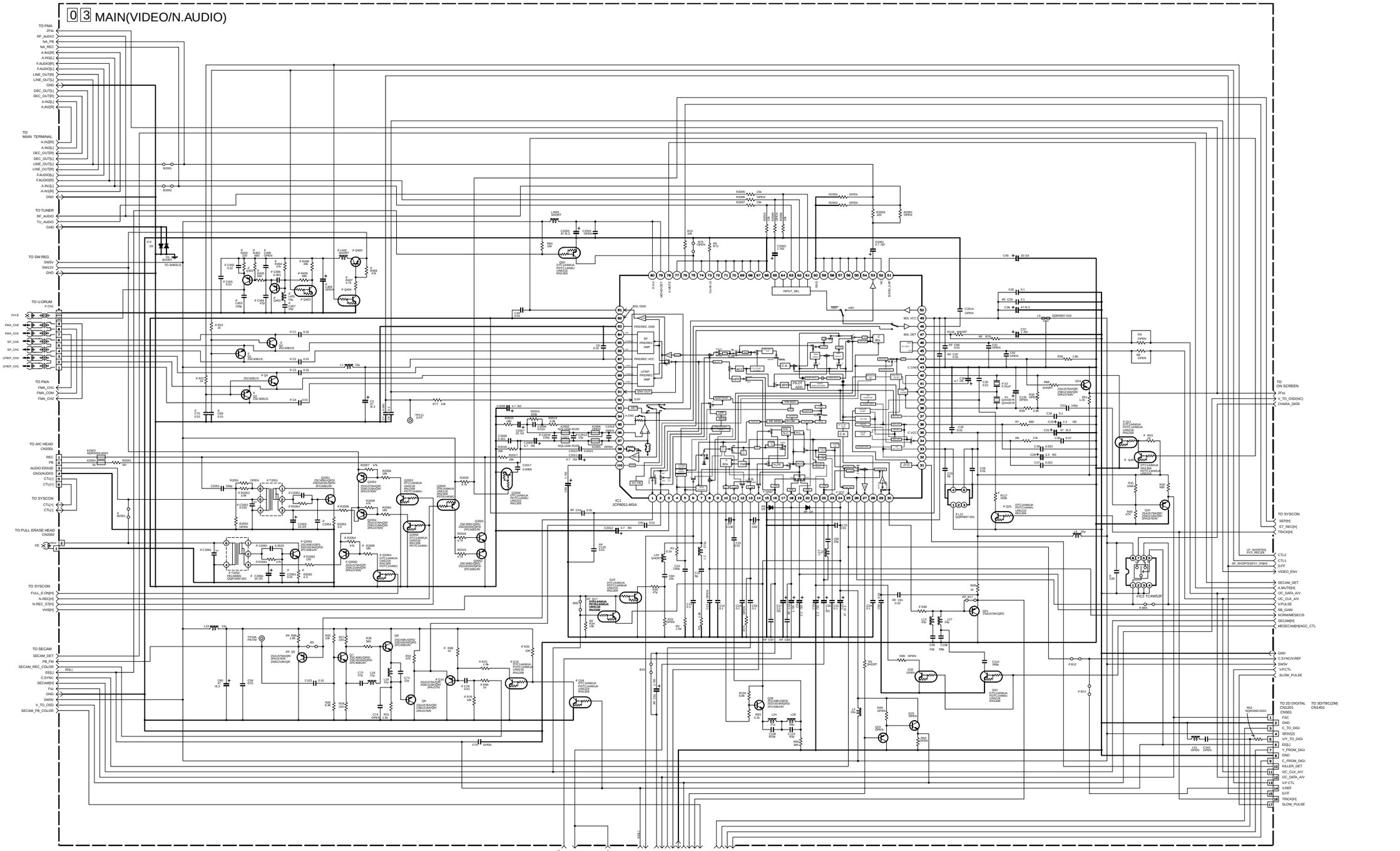
4.2 MAIN (VIDEO/N.AUDIO) SCHEMATIC DIAGRAM

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.



#DEFFERENCE TABLE

V15 SP LINEUP	CN1	FLY.ERASE	H.SHORT	PRE.IN	PAL_EP TRICK		C TRAP	3D			for_MS	AUDIO.DUBBING								
		R401-R408 Q401-Q405 C401-C407 *L401-L402* C409	Q1-Q4 *C69,C70* *R21,R22*	C1-C4	R41 Q11 Q40	R117 Q29	R46	B12	B13	X2 0.01uF	*Q14,Q18,Q19* *R23,R30R65* *R66,R75,C78*	Function	T2051	B2051	R2053	R2054	R2056	C2053	C2054	C2061	Q2061-Q2063 T2052 C2052 R2061-R2065 C2062-C2064
S6950EU(S1)	1-9	X	O	0.01	O	X	220	O	X	X	X	X	PELN0832	O	3.9k	12k	82	0.0047	0.022	0.082	
"S7950EU,S7955EK(S2)"	1-9	X	O	0.01	X	O	470	X	O	O	X	X	PELN0832	O	3.9k	12k	82	0.0047	0.022	0.082	X
S7955MS(S15)	1-11	O	X	0.1	O	X	220	O	X	X	O	O	PELN0860	X	3.9k	15k	100	0.0033	0.01	0.033	O
S6955MS(S1)	1-9	X	O	0.01	O	X	220	O	X	X	X	O	PELN0832	O	3.9k	12k	82	0.047	0.022	0.082	X
S8955EE(S25)	1-11	O	X	0.1	X	O	470	X	O	O	X	O	PELN0860	X	3.9k	15k	100	0.0033	0.01	0.033	O

O : Used
X : Not used

MARKS ARE NOT MOUNTED ALL MODELS

TITLE REC	B65	IC2 C50
YES	X	O
NO	O	X

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

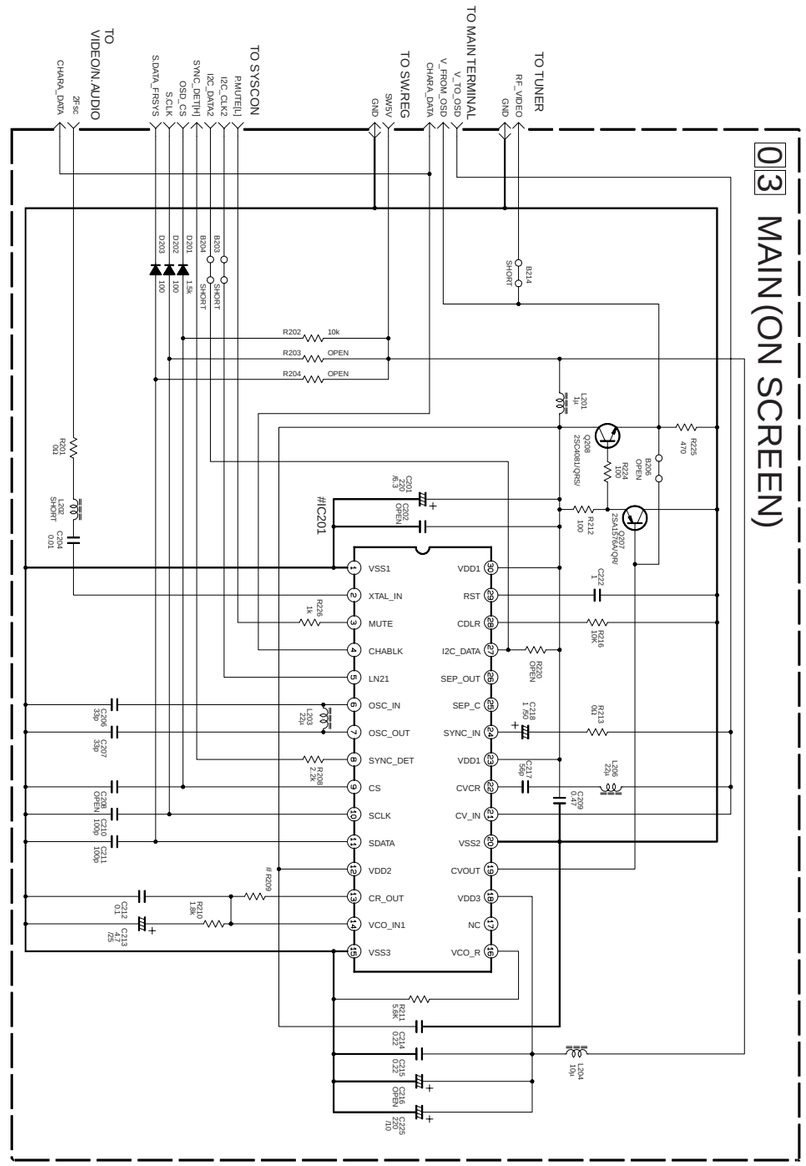
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

ALL NPN TYPE TRANSISTORS ARE 2SC4081/QRS/ or 2SD1819A/QRS/ or 2PC4081R/
ALL PNP TYPE TRANSISTORS ARE 2SA1576A/QR/ or 2SB1218A/QR/ or 2PA1576R/
ALL NPN TYPE DIGITAL TRANSISTORS ARE DTC144WUA or UN511E or RN2309 or PDTC144WU
ALL PNP TYPE DIGITAL TRANSISTORS ARE DTA144WUA or UN511E or RN2309 or PDTA144WU

p10439001a_rev1

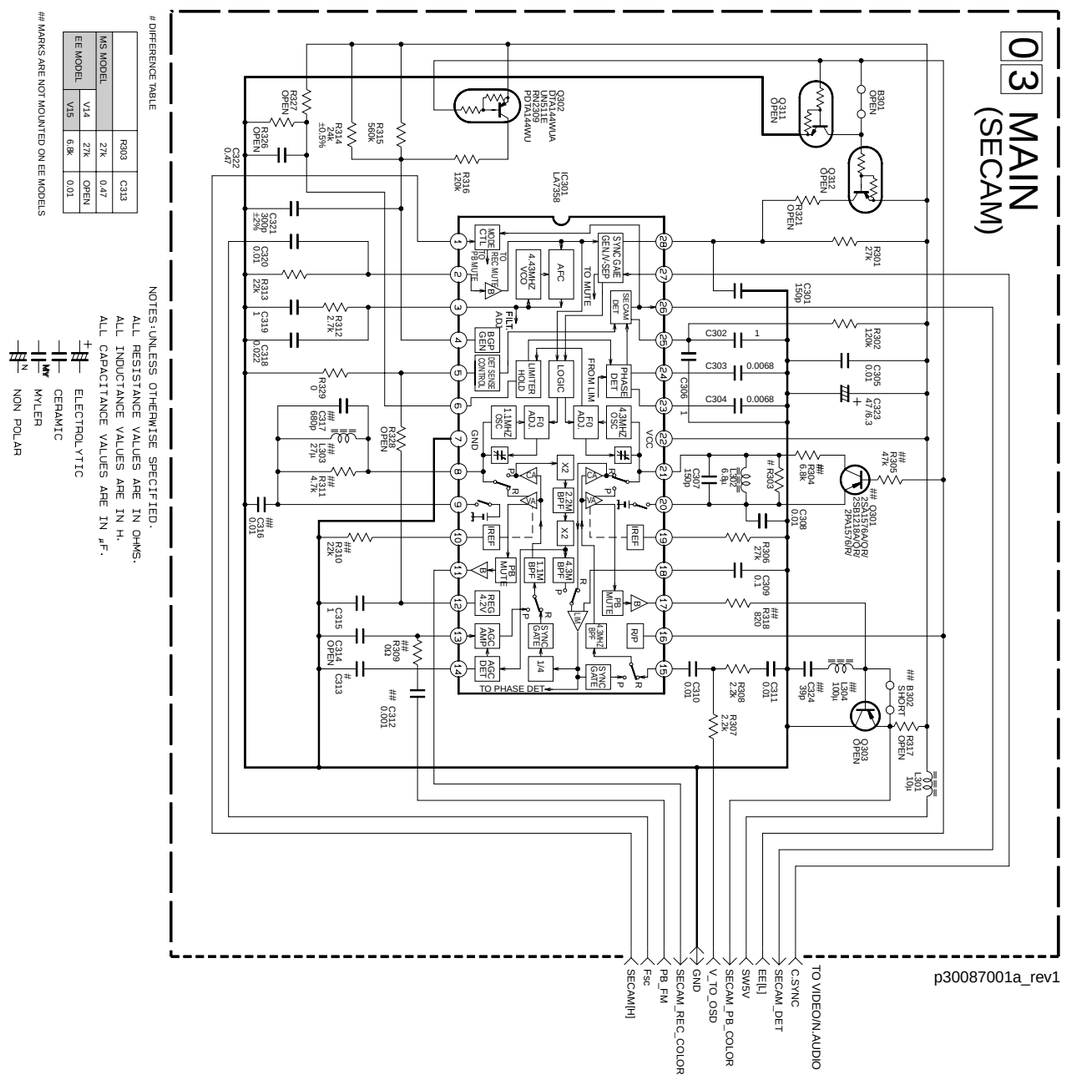
4.3 MAIN (ON SCREEN) SCHEMATIC DIAGRAM

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.



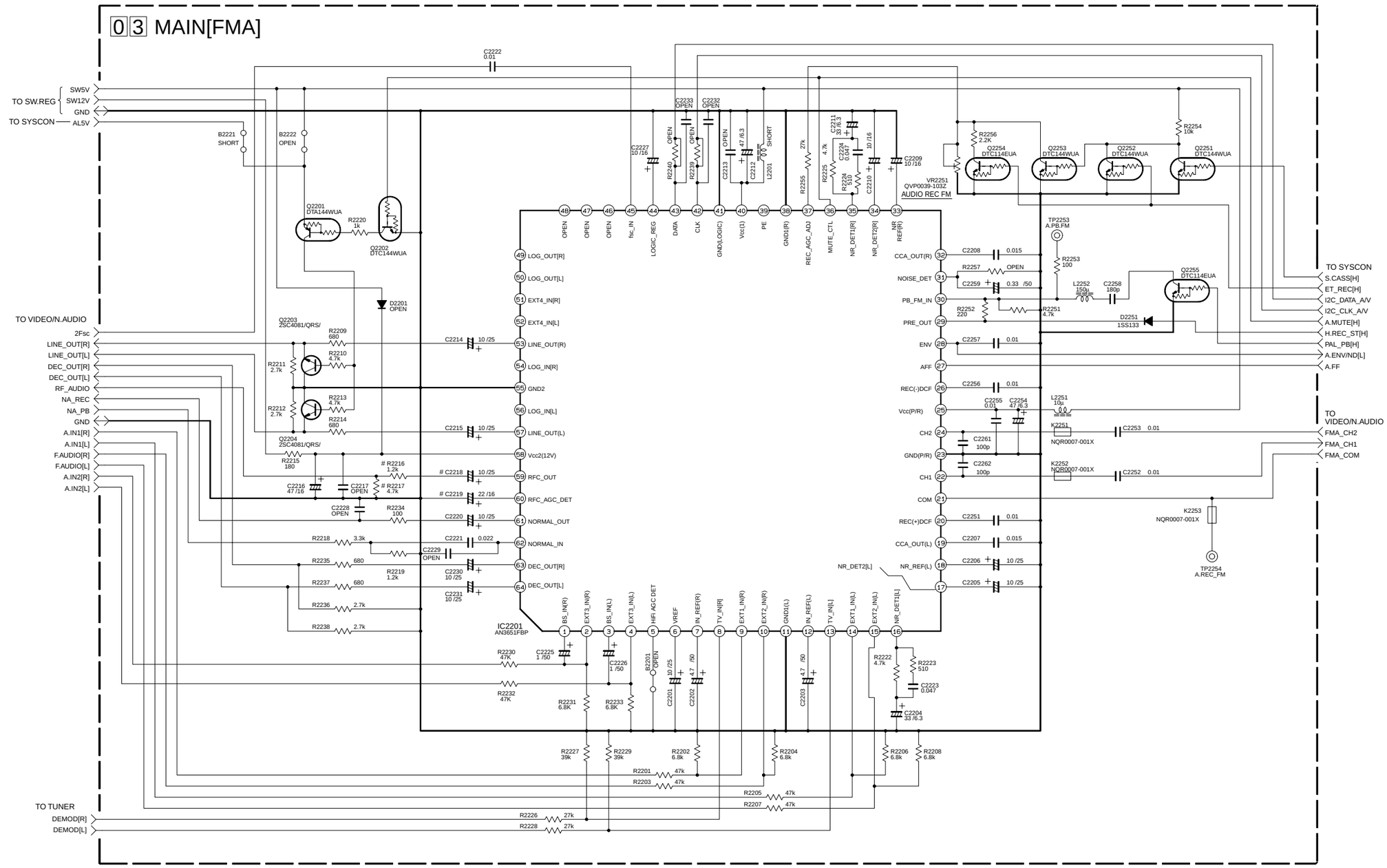
4.4 MAIN (SECAM) SCHEMATIC DIAGRAM [HR-S6955MS/S7955MS]

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.



4.5 MAIN (FMA) 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 ○ : Used × : Not used

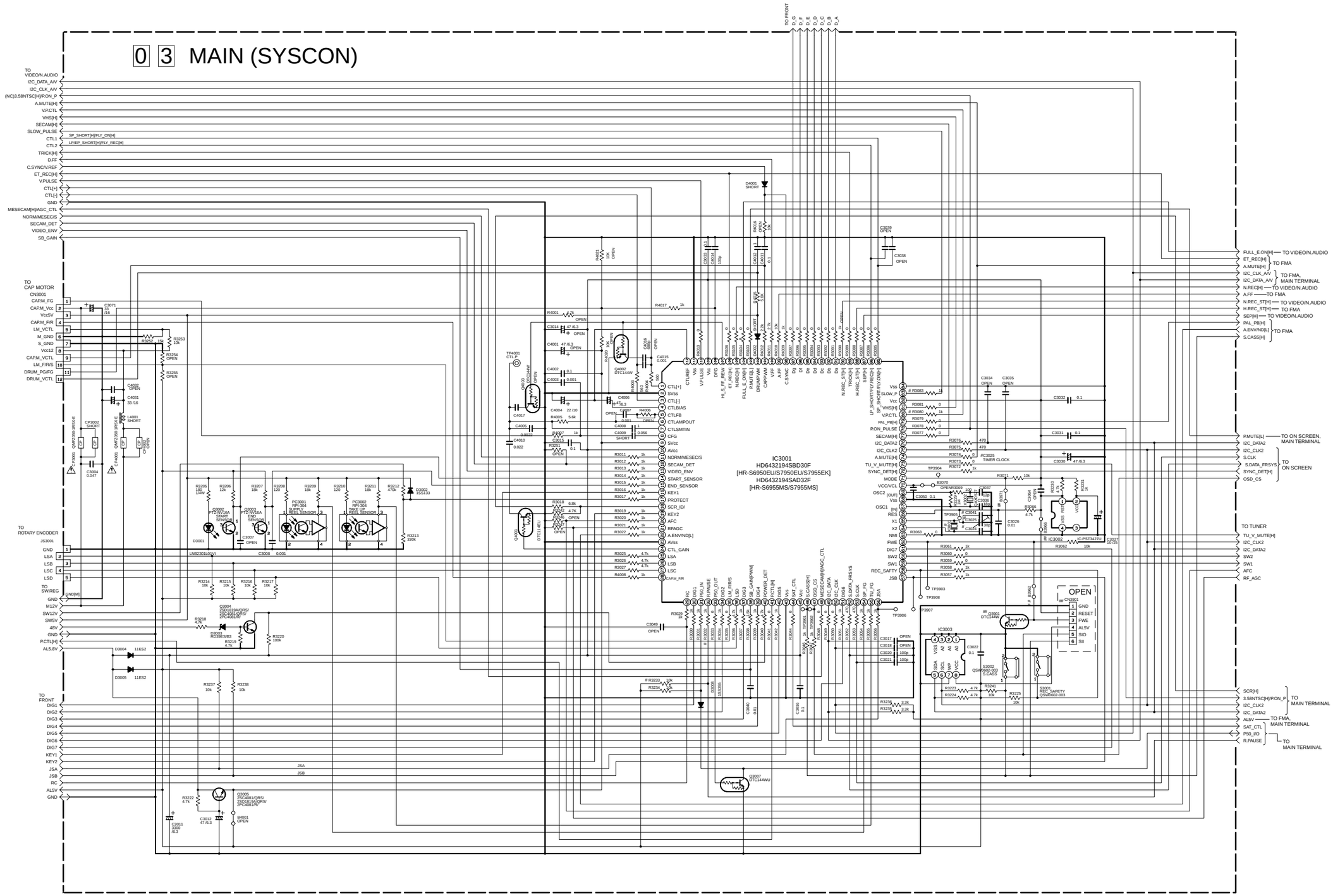
RF OUT	C2218	C2219	R2216	R2217
YES		○		
NO		×		

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

4.6 MAIN (SYSCON) SCHEMATIC DIAGRAM

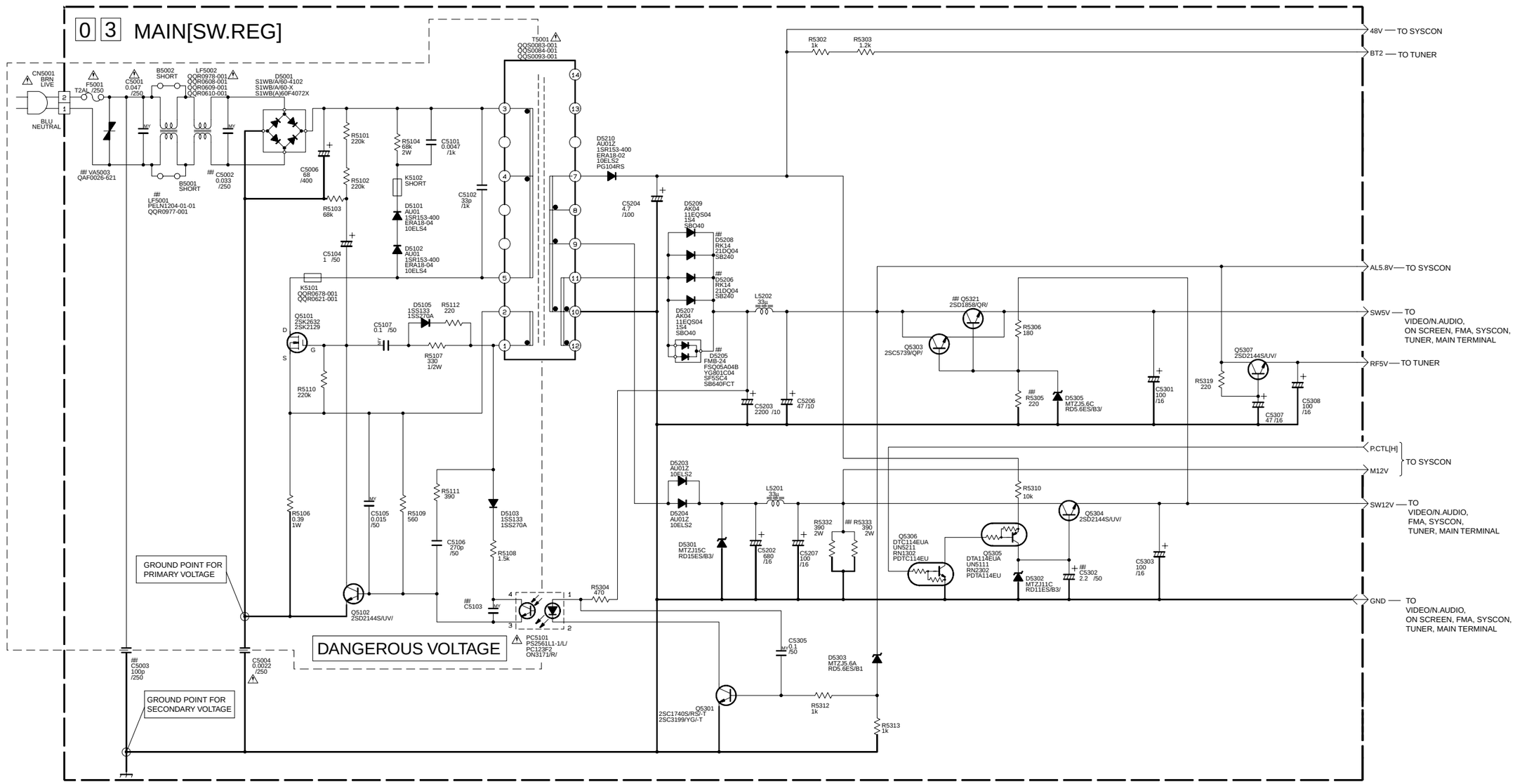
Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



p10438001a_rev0

4.7 MAIN (SW.REG) SCHEMAITC 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

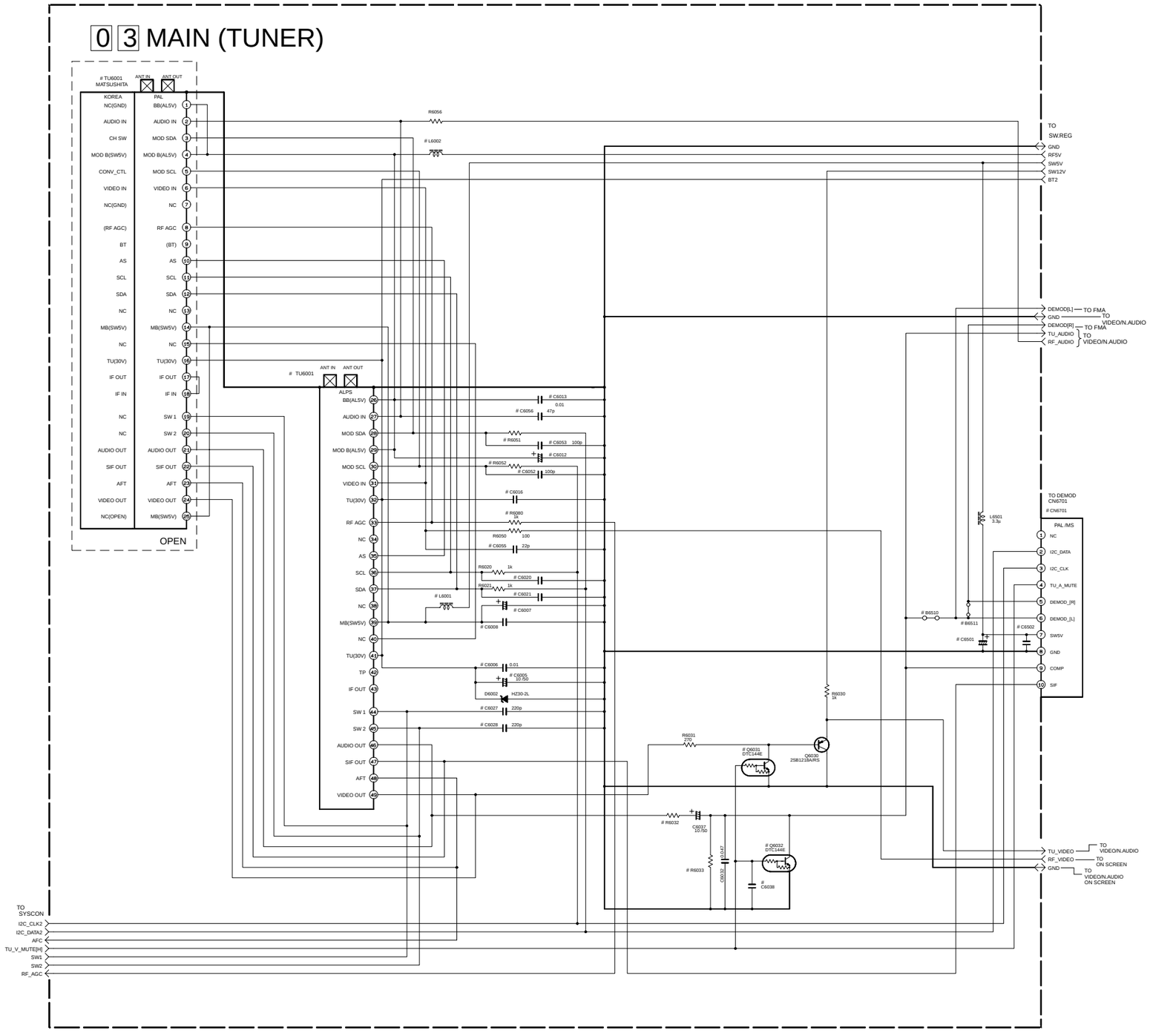
NOTES : UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p20236001a_rev0

4.8 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.



DIFFERENCE TABLE ○ : Used × : Not used

		EU/EK	FRANCE MS	EE
TUNER	TU6001	ALPS QAU0261	LG QAU0266	ALPS QAU0261
ATS+	R6080	1kΩ	1kΩ	×
SW5V	L6001	10µ	10µ	10µ
	C6007	×	×	×
	C6008	0.01	×	0.01
RF5V	C6012	×	×	×
	C6013	0.01	0.01	0.01
BT2 RF CONV.	C6016	×	×	×
BT2 TUNER	C6005	×	×	×
	C6006	×	×	×
RF CONV. I2C	R6051	100	×	100
	C6053	×	×	×
	R6052	100	×	100
	C6052	×	×	×
AUDIO IN	R6056	100	×	100
	C6056	○	×	○
VIDEO IN	R6050	○	×	○
	C6055	○	×	○
TUNER I2C	C6020	×	×	×
	C6021	×	×	×
SYSTEM SW	C6027	×	×	×
	C6028	×	×	×
AUDIO OUT	R6032	4.7k	18k	4.7k
	R6033	1.8k	18k	1.8k
	C6032	○	×	○
	Q6032	○	○	×
VIDEO OUT	Q6031	○	○	×
DEMOD PASS CON	C6501	10µ	10µ	10µ
	C6502	0.01	0.01	0.01

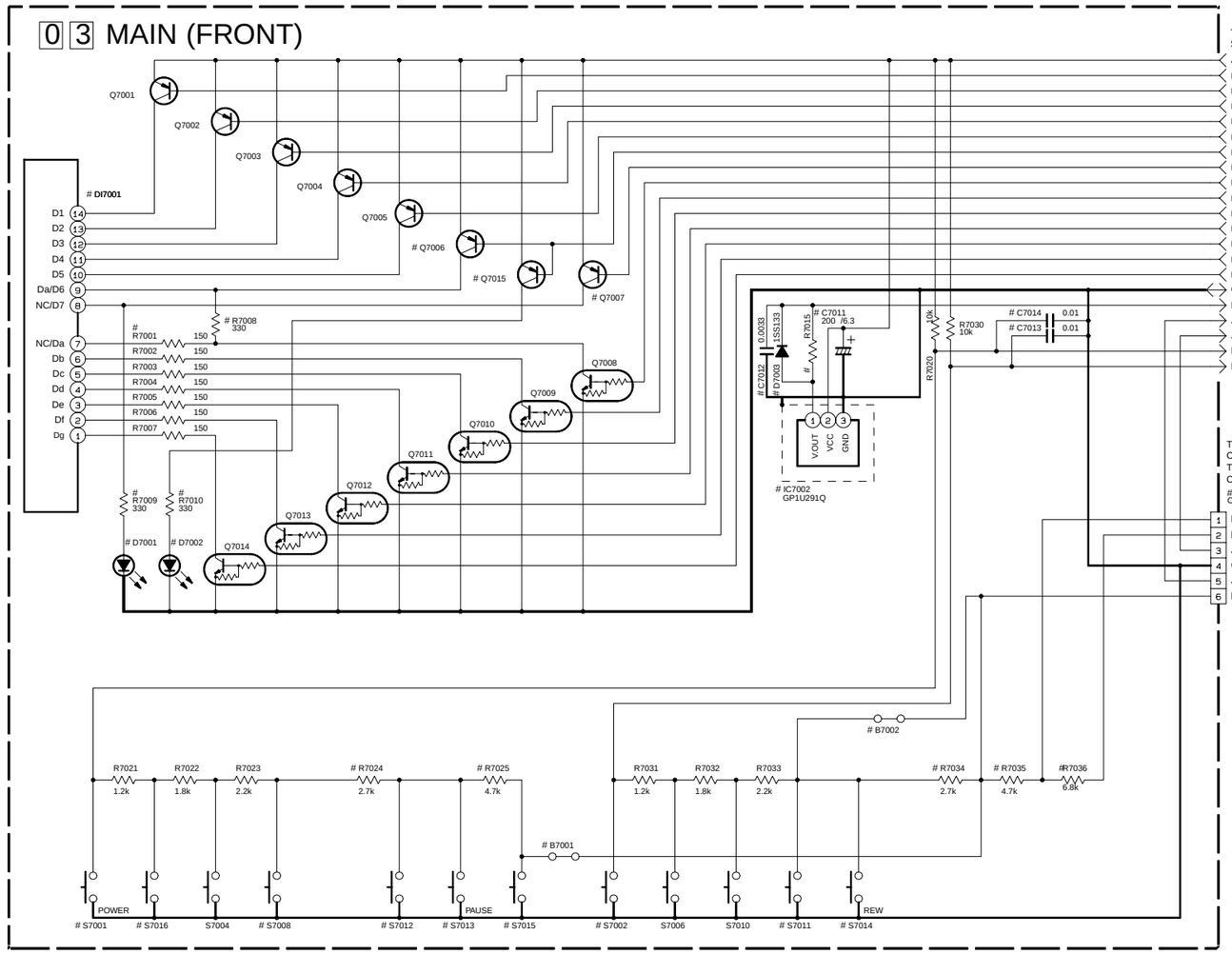
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

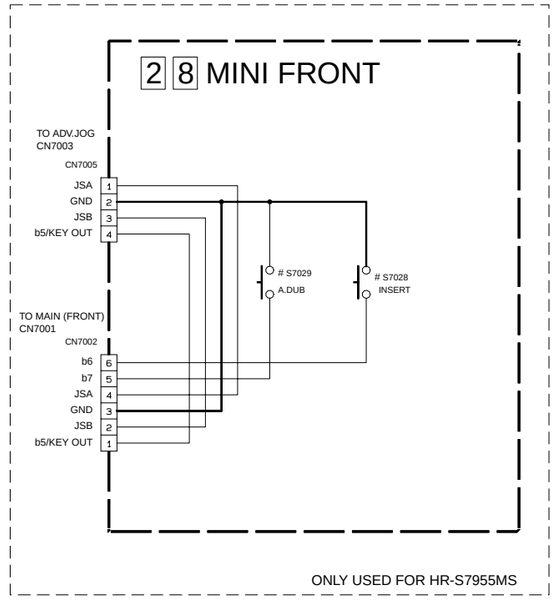
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

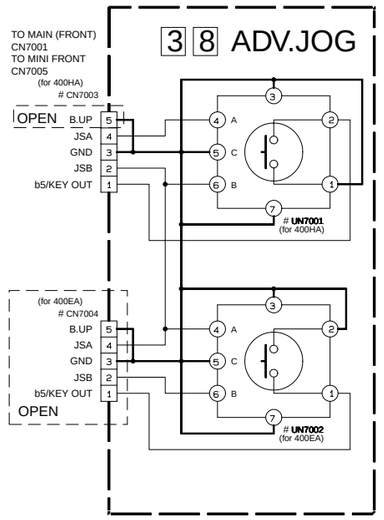
p10436001a_rev0

4.9 MAIN (FRONT), MINI FRONT, S-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.







7seg LED

	DI7001			R7001 Q7006 Q7007	R7008
	7	8	9		
V14TYPE	NC	NC	Da	×	○
V15NEW	Da	D7	D6	○	×

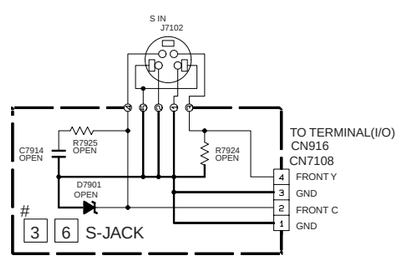
LED (ONLY USED BY V14TYPE 7segLED)

		R7009	R7010	Q7007	Q7015
D7001	USED	○	-	○	-
	NOT USED	×	-	×	-
D7002	USED	-	○	-	○
	NOT USED	-	×	-	×

○ : Used
× : Not used

IC7042 /C7041 /C7042 /D7043 /R7046 USED BY 360H/K

TOOL	CN7001
400HA2	1-6
OTHERS	3-6



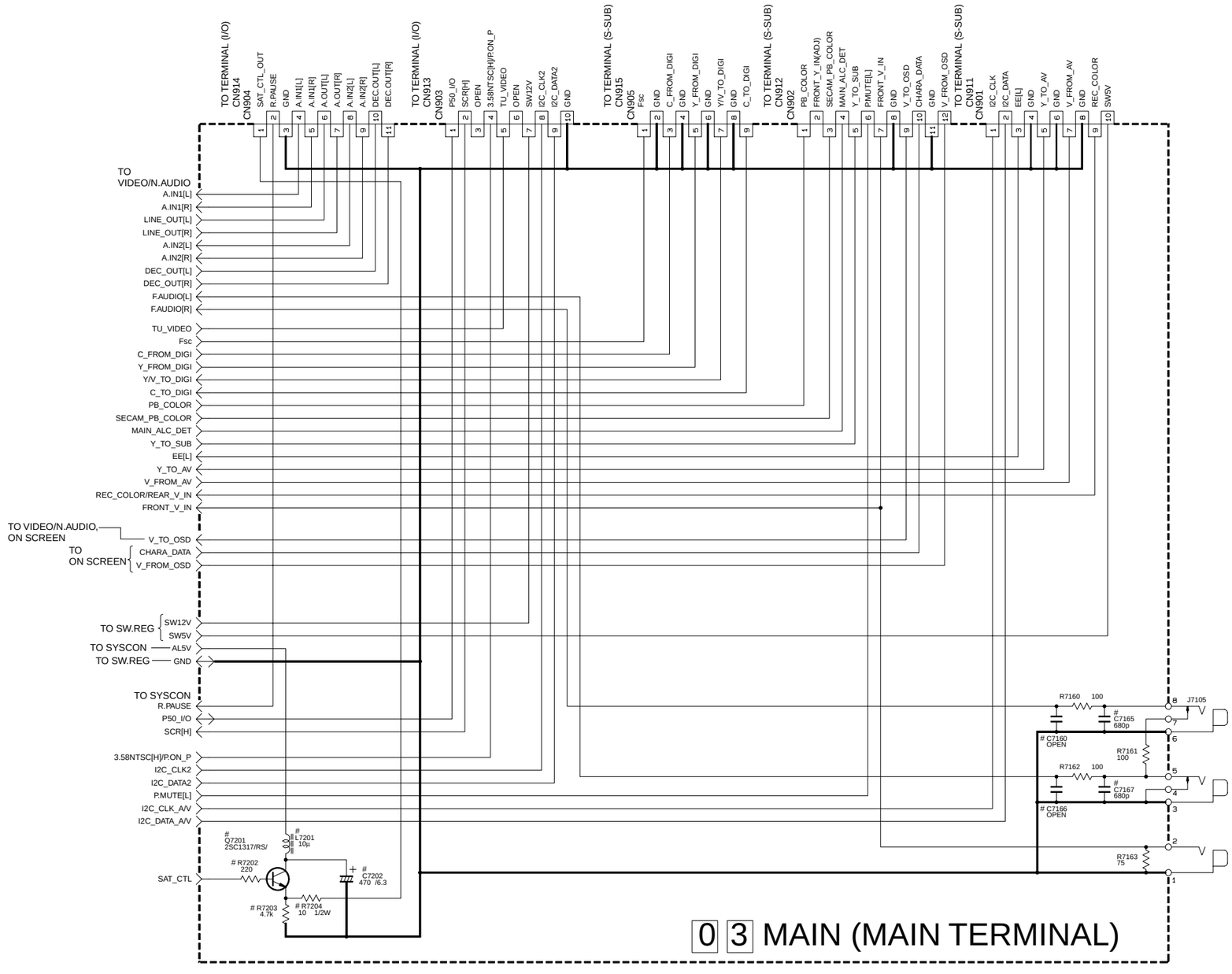
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p20280001a_rev0

4.10 MAIN (MAIN 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.



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

SAT CTL	Q7201 R7202 R7203 R7204 C7202 L7201
YES	○
NO	×

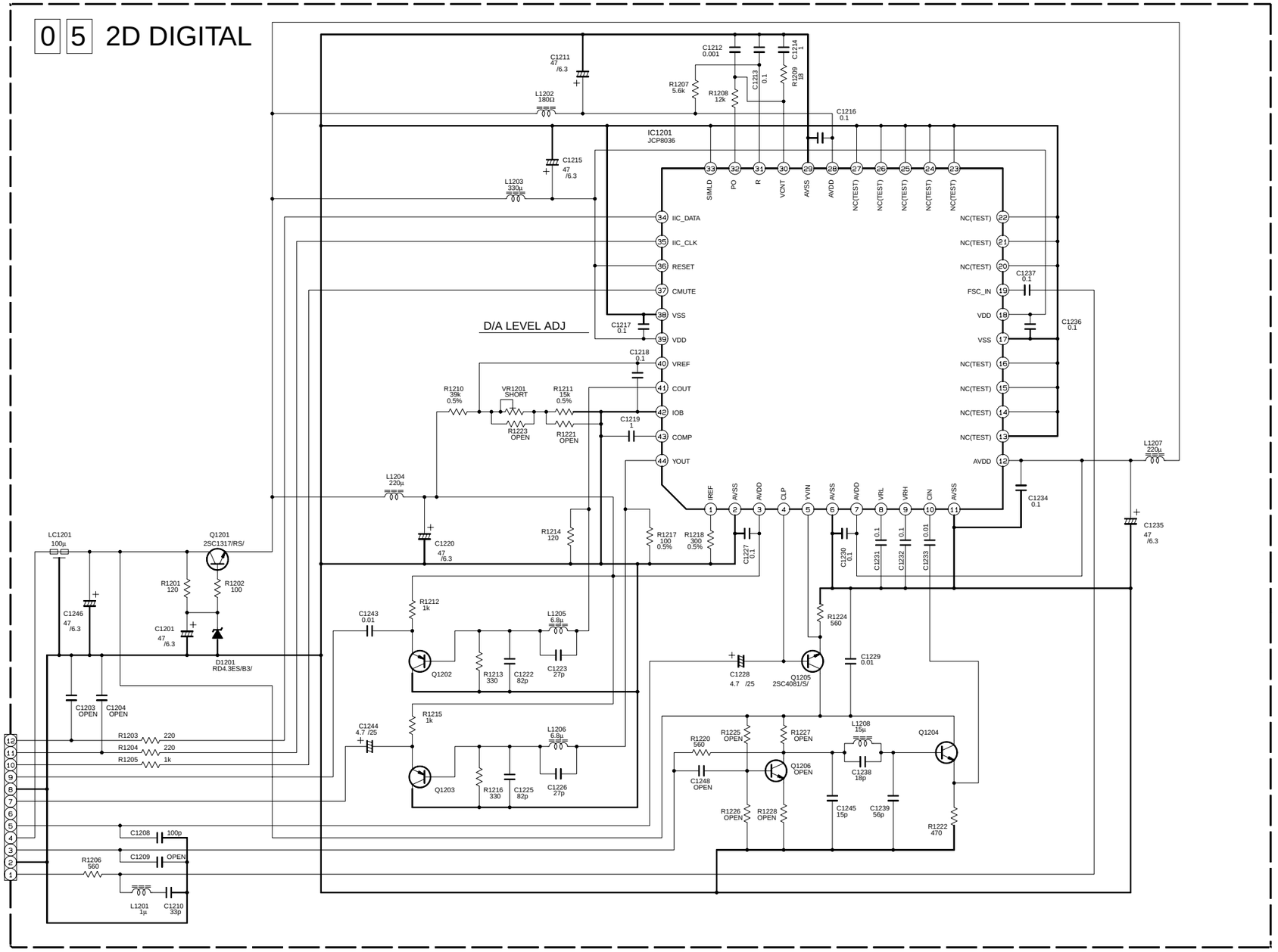
○ : Used
× : Not used

CE	C7160 C7165 C7166 C7167
YES	○
NO	×

p30104001a_rev0

4.11 2D DIGITAL SCHEMATIC DIAGRAM [HR-S6950EU/S6955MS/S7955MS]

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.



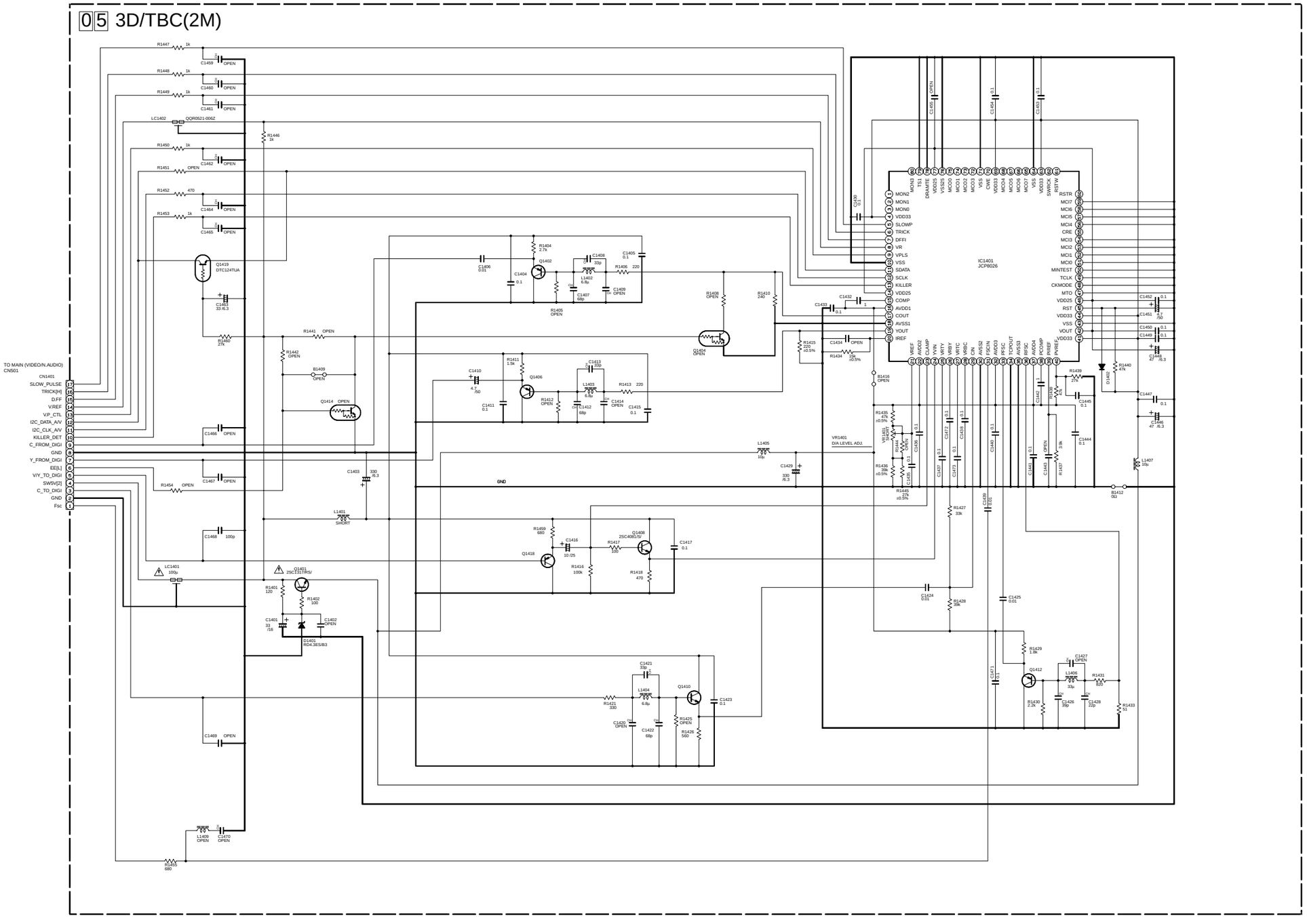
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ALL NPN TYPE TRANSISTORS ARE 2SC4081/QRS/.
ALL PNP TYPE TRANSISTORS ARE 2SA1576A/QR/.

ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR

p20282001a_rev0

4.12 3D/TBC (2M) SCHEMATIC DIAGRAM [HR-S7950EU/S7955EK]

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

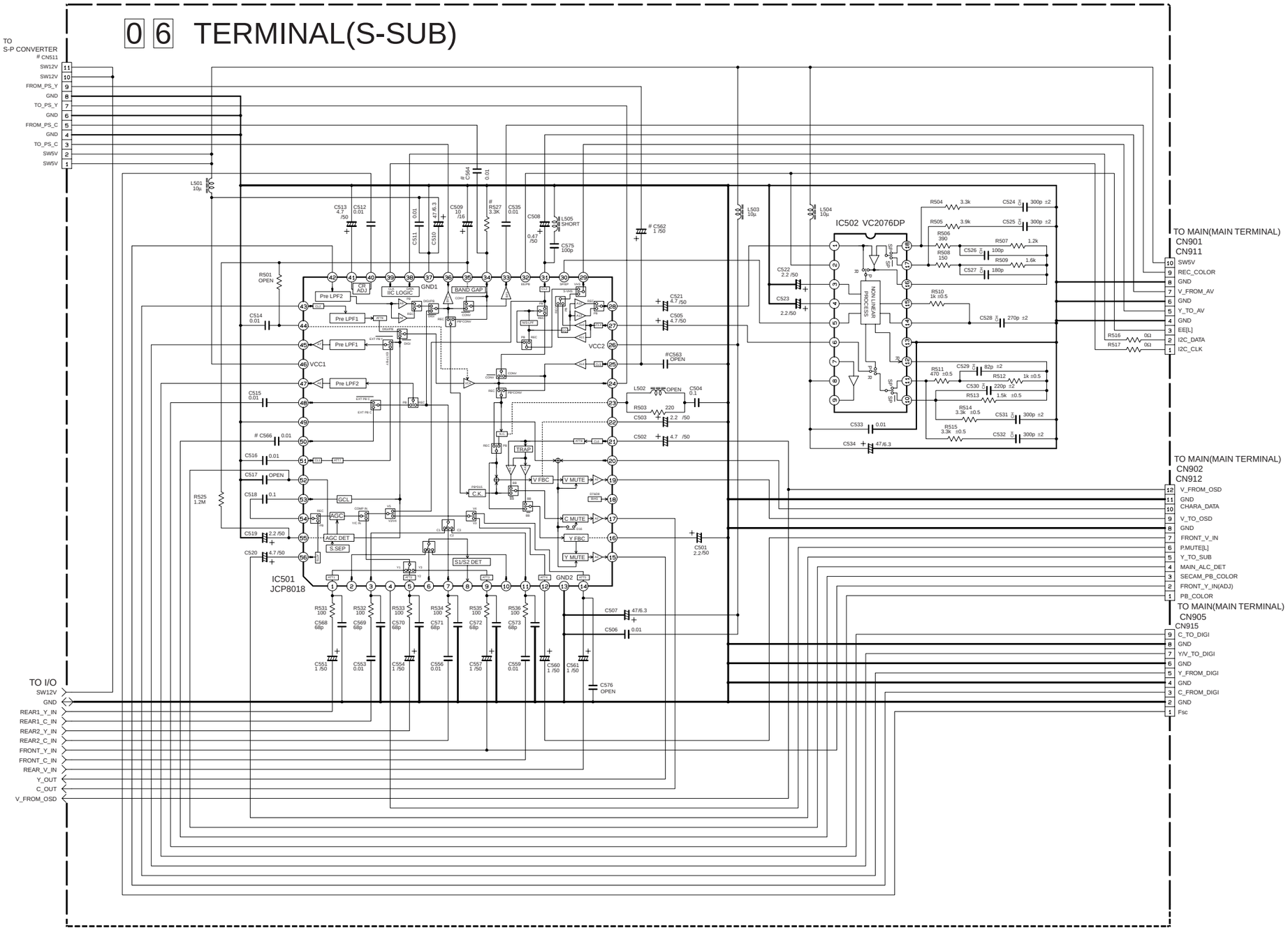
ALL DIODES ARE 1SS133 OR 1N4148.
ALL PNP TYPE TRANSISTORS ARE 2SA1576A/QR/ OR 2PA1576/R/.
ALL NPN TYPE TRANSISTORS ARE 2SC4081/QRS/ OR 2PC4081/R/.

p10440001a_rev1

4-23 4-24

4.13 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.



○ : Used
× : Not used

DIFFERENCE TABLE

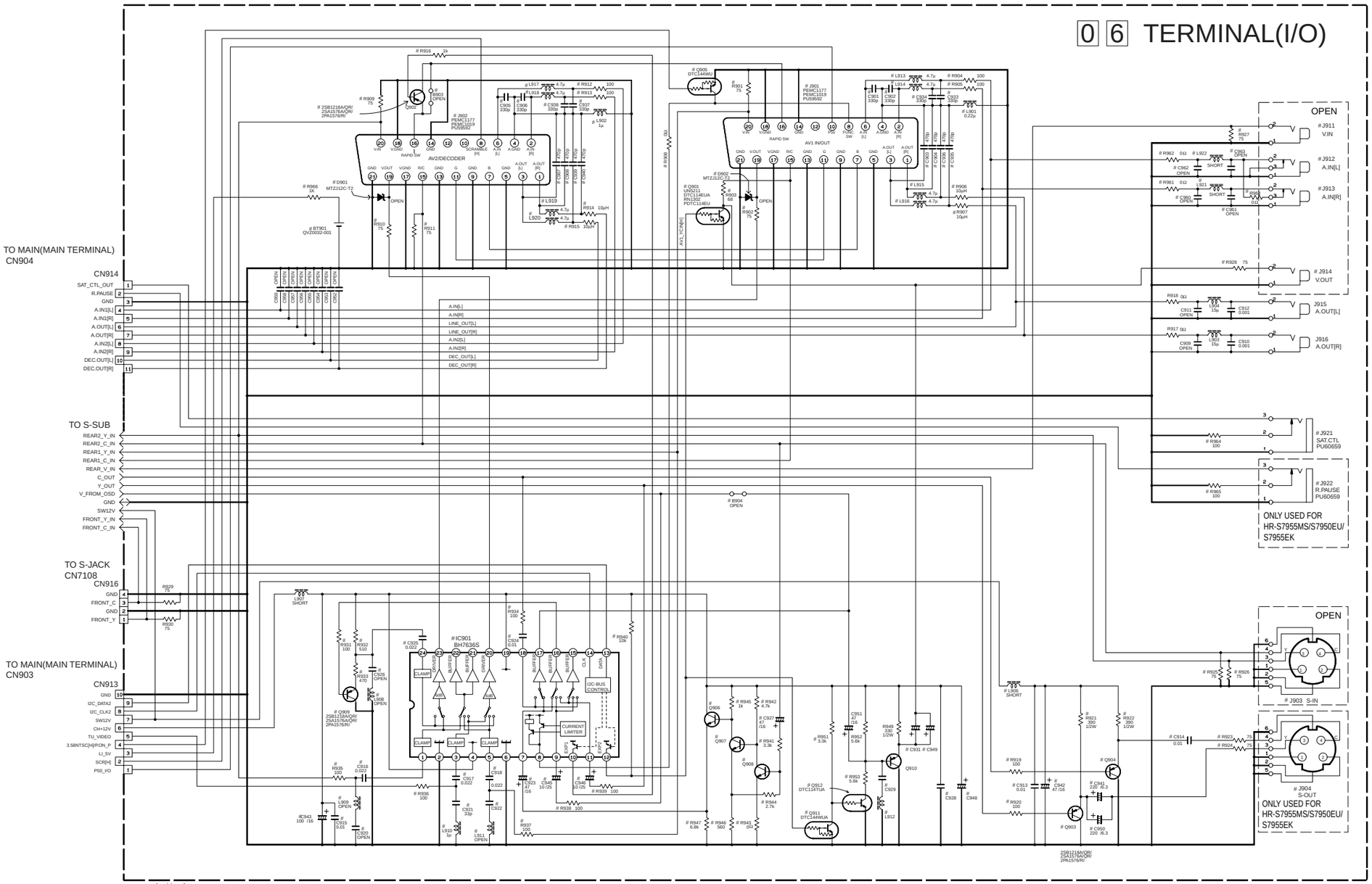
	CN511 C562 C564 C566	C563 RS27
MS	○	×
OTHERS	×	○

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

p20213001a_rev0

4.14 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.



DIFFERENCE TABLE

O : Used
× : Not used

		CH+	REAR S-OUT	S-IN	REAR IN/OUT	SAT CTL	R.PAUSE	SW12VDECUP				CE/V-OUT DRIVER				BACK UP
		R901-R908, R909-R916, R931-R947, R951,R953 L901,L902 L908-L911, L913-L916, L917-L920, IC901, B903,B904 D901,D902 J901,J902	J904 R919-R924 C913,C914 C941,C942 C950 Q903,Q904 L906	J903 R925,R926	J911-J914 R927,R928 R961-R963 L921,L922 C960-C963	J921 R964	J922 R965	C915	C943	C928	C948	C929	L912	C931	C949	R966 BT901
EURO MODELS	WITHOUT REAR S-OUT	O	×	×	×	O	×	0.01	100/16	0.01	OPEN	OPEN	OPEN	10/25	OPEN	×
EURO MODELS	WITH REAR S-OUT	O	O	×	×	O	O	0.01	100/16	0.01	OPEN	OPEN	OPEN	10/25	OPEN	×
ARC MODELS		×	O	O	O	×	×	OPEN	OPEN	0.01	47/16	5.6k	SHORT	220/6.3	220/6.3	O

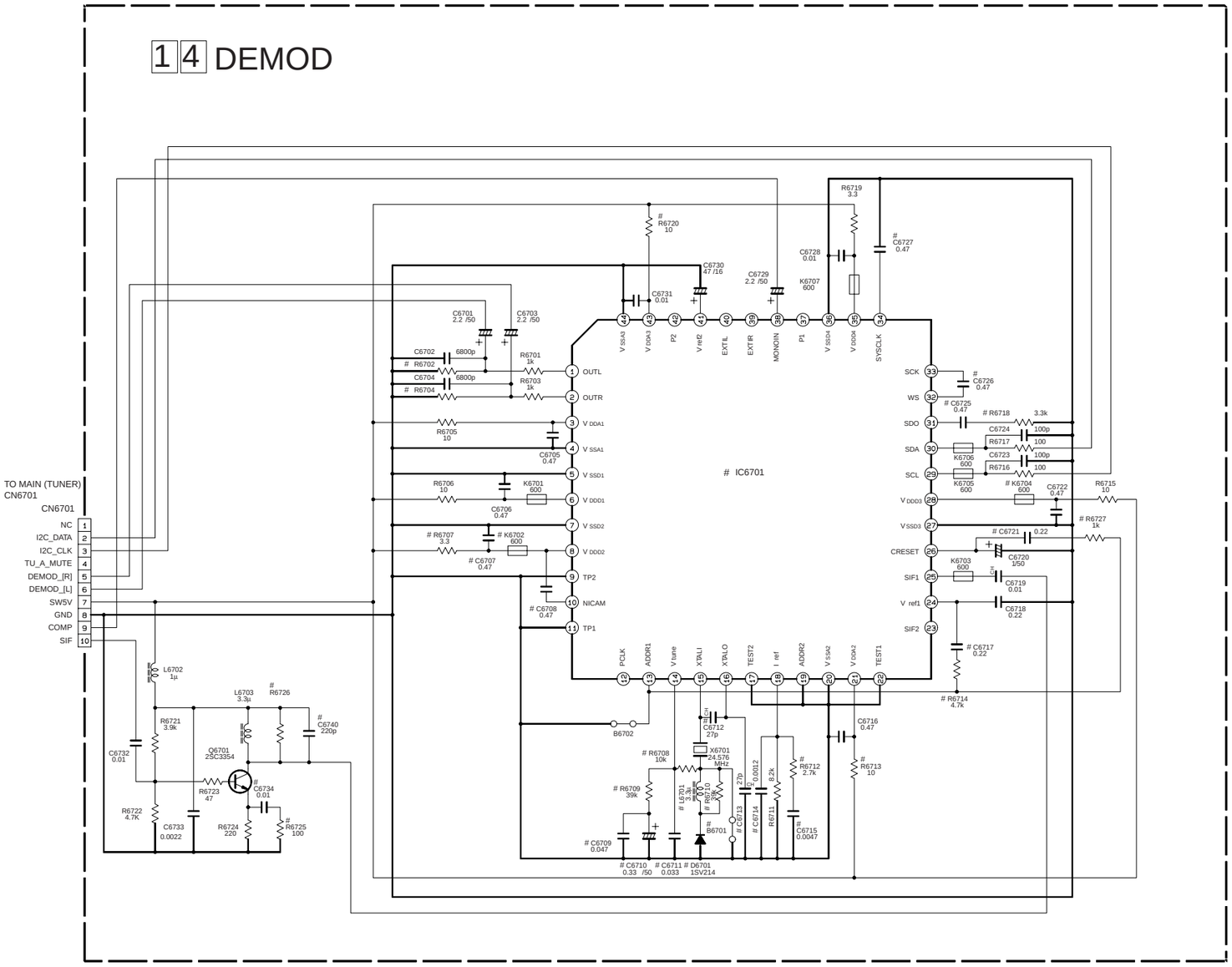
ALL NPN TYPE TRANSISTORS ARE 2SC4081/QRS/ or 2SD1819A/QRS/ or 2PC4081/R/.
ALL PNP TYPE TRANSISTORS ARE 2SA1576A/QR/ or 2SB1218A/QR/ or 2PA1576/R/.

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

4.15 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

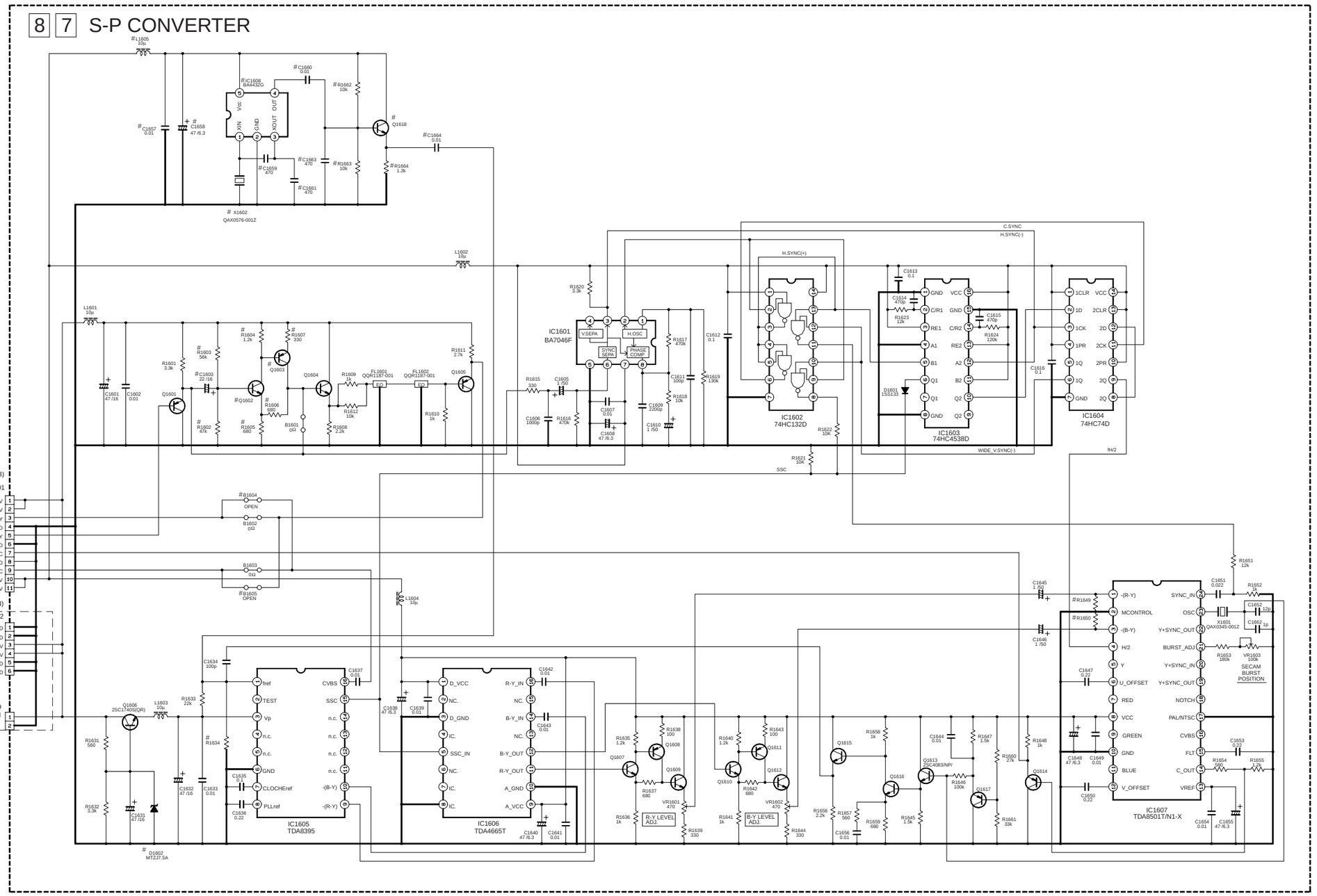
	V12 EK/ARC	V12 EU/MS	V13/V14
IC6701	TDA9874H	←	TDA9874AH
R6707	10	←	NOT USED
R6708	10k	←	0Ω
R6709	39k	←	NOT USED
R6710	39k	←	NOT USED
R6713	10	←	NOT USED
R6720	10	←	NOT USED
R6725	100	NOT USED	100
R6726	1k	2.2k	1k
C6707	0.47	←	NOT USED
C6710	0.33/50	←	NOT USED
C6711	0.033	←	NOT USED
C6712	27p	←	NOT USED
C6713	27p	←	0Ω
C6714	0.0012	←	NOT USED
C6734	0.01	NOT USED	0.01
C6740	NOT USED	220p	NOT USED
L6701	3.3µ	←	NOT USED
D6701	1SV214	←	NOT USED
K6702	600	←	NOT USED
R6702,R6704, R6712,R6714, R6717,R6718, C6708,C6709, C6715,C6717, C6721,C6725, C6726,C6727, B6701	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

p20130001a_rev1

4.16 S-P CONVERTER SCHEMATIC DIAGRAM [HR-S6955MS/S7955MS]

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.



MARKED ELEMENTS ARE NOT MOUNTED.

ABOUT ## MARKED ELEMENTS

MODELS \ ELEMENTS	CN1601	CN1602
HR-S6955MS HR-S7955MS	1pin-11pin	NOT USED
VR1200/39	3pin-11pin	3pin-6pin

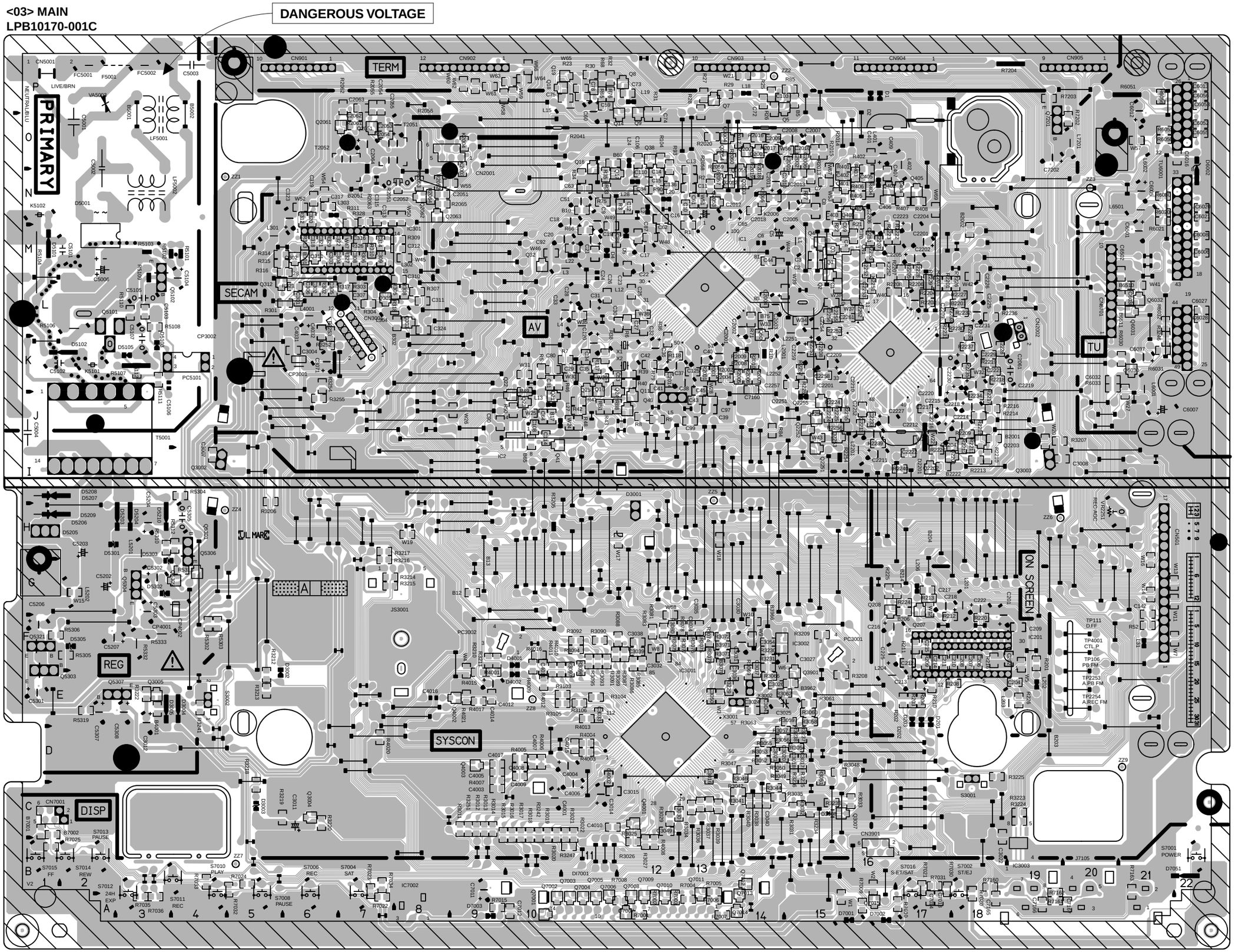
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p20219001a_rev0

4.17 MAIN CIRCUIT BOARD

<03> MAIN
LPB10170-001C



COMPONENT PARTS LOCATION GUIDE <MAIN> LPB10170-001C

REF.NO.	LOCATION
CAPACITOR	
C1	B C 15L
C2	B C 15M
C3	B C 15M
C4	B C 16M
C5	A D 14M
C6	A D 14M
C7	B C 15N
C8	B C 15N
C9	A D 11M
C10	B C 13N
C11	B C 13N
C12	B C 12N
C13	B C 13N
C14	B C 12N
C15	B C 12N
C16	B C 12N
C17	A D 12M
C18	A D 11N
C19	A D 11M
C20	A D 11M
C21	B C 11M
C22	A D 12M
C23	B C 12M
C24	A D 11L
C25	B C 12L
C26	B C 11L
C27	B C 12L
C28	A D 11L
C29	B C 11K
C30	B C 12L
C31	A D 11L
C32	B C 12L
C33	A D 11L
C34	B C 11K
C35	B C 11K
C36	A D 12K
C37	A D 12K
C38	A D 13K
C39	B C 13J
C40	A D 13K
C41	B C 12K
C42	B C 12K
C43	B C 13J
C44	B C 14M
C45	B C 13K
C51	A D 11N
C53	B C 12K
C59	B C 11P
C60	A D 11P
C61	B C 13N
C62	B C 12M
C63	B C 11N
C64	B C 10J
C65	A D 14N
C69	B C 16M
C70	B C 16M
C72	B C 14P
C73	B C 12P
C74	B C 12O
C75	B C 11P
C78	B C 11P
C80	B C 10K
C81	B C 10K
C84	B C 12N
C87	B C 12M
C88	B C 11M
C90	B C 9J
C92	B C 11M
C97	B C 13J
C99	B C 13J
C103	B C 14P
C106	B C 12O
C108	B C 10J
C110	B C 12N
C114	B C 10J
C120	A D 11K
C125	B C 13K
C136	B C 12N
C142	B C 21F
C201	A D 18F
C202	B C 19F
C204	B C 19E
C206	B C 18F
C207	B C 18F
C208	B C 18F
C209	B C 19F
C210	B C 18F
C211	B C 17F
C212	B C 17F
C213	A D 17E
C214	B C 17F
C215	B C 17F
C216	A D 16F
C217	B C 17G
C218	A D 17G
C222	A D 18G
C225	A D 16F
C301	B C 6L
C302	B C 6L
C303	B C 6M
C304	B C 7M
C305	B C 6L
C306	B C 6L
C307	B C 7L
C308	B C 7M
C309	B C 7M
C310	B C 8M
C311	B C 8L
C312	B C 8M
C313	B C 7N
C314	B C 7M
C315	B C 7N
C316	B C 7M
C317	B C 6N
C318	B C 6M
C319	B C 6N
C320	B C 6N
C321	B C 6M
C322	B C 7M
C323	A D 6N
C324	B C 8L
C401	B C 16O
C402	B C 16N
C403	B C 15N
C404	B C 17N
C405	B C 16N
C406	B C 16N
C407	B C 16N
C409	A D 16O
C2001	A D 13K
C2002	A D 14L
C2003	A D 14L
C2004	B C 14L
C2005	A D 15N
C2006	B C 15O
C2007	A D 15O
C2008	A D 15O
C2009	B C 14O
C2010	B C 15N
C2011	A D 14N
C2012	A D 13N
C2013	B C 15N
C2014	B C 12K
C2016	B C 15O
C2017	B C 14O
C2018	B C 14N
C2051	B C 8N
C2052	A D 7N
C2053	B C 7O
C2054	B C 7P
C2055	A D 8O
C2061	A D 19K
C2062	B C 7O
C2063	B C 7P
C2064	A D 7O
C2201	A D 17M
C2202	A D 17M
C2203	A D 17L
C2204	A D 17M
C2205	A D 16M
C2206	A D 16M
C2207	B C 16M
C2208	B C 15K
C2209	A D 15K
C2210	A D 16K
C2211	A D 16I
C2212	A D 16J
C2213	B C 16J
C2214	A D 18J
C2215	A D 17J
C2216	A D 17J
C2217	B C 17J
C2218	A D 18J
C2219	A D 18K
C2220	A D 18J
C2221	B C 18K
C2222	B C 17I
C2223	B C 16M
C2224	B C 15J
C2225	A D 18L
C2226	A D 18L
C2227	A D 16J
C2228	B C 18K
C2229	B C 18K
C2230	A D 18K
C2231	A D 18K
C2232	B C 16J
C2233	B C 16J
C2251	B C 16M
C2252	B C 16M
C2253	B C 16L
C2254	A D 15L
C2255	B C 15L
C2256	B C 15L
C2257	B C 15K
C2258	B C 15K
C2259	A D 15K
C2261	B C 16L
C2262	B C 16L
C3004	B C 6K
C3007	B C 4I
C3008	B C 19I
C3011	A D 6C
C3012	A D 3E
C3014	A D 11C
C3015	B C 11C
C3016	B C 13D
C3017	B C 15D
C3018	B C 15D
C3020	B C 15D
C3021	B C 14D
C3022	B C 18C
C3024	B C 14E
C3025	A D 15E
C3026	B C 14E
C3027	A D 14F
C3030	A D 14F
C3031	B C 14F
C3032	B C 12F
C3033	B C 11E
C3034	B C 13F
C3035	B C 13F
C3036	B C 14E
C3037	B C 14F
C3038	B C 12F
C3039	B C 12F
C3040	B C 14C
C3041	B C 14E
C3049	B C 12C
C3050	B C 13E
C3054	B C 14F
C3071	A D 6K
C4001	A D 10C
C4002	B C 11D
C4003	B C 9C
C4004	A D 11D
C4005	B C 9D
C4006	A D 11C
C4007	B C 10D
C4008	B C 10D
C4009	B C 10D
C4010	B C 11C
C4011	B C 10F
C4012	A D 9E
C4014	B C 9E
C4015	B C 11D
C4016	A D 8E
C4017	B C 9D
C4031	A D 6L
C4032	B C 6L
C5001	A D 2P
C5002	A D 2N
C5003	A D 4P
C5004	A D 1J
C5006	A D 2M
C5101	A D 2M
C5102	A D 1K
C5103	B C 3L
C5104	A D 4M
C5105	A D 3L
C5106	A D 3J
C5107	A D 3L
C5202	A D 2G
C5203	A D 2H
C5204	A D 3H
C5206	A D 1F
C5207	A D 3F
C5301	A D 1E
C5302	A D 3G
C5303	A D 3G
C5305	A D 4H
C5307	A D 2E
C5308	A D 3E
C6005	A D 21N
C6006	B C 22M
C6007	A D 21J
C6008	B C 22M
C6012	A D 21O
C6013	B C 22P
C6016	B C 22O
C6020	B C 22N
C6021	B C 22N
C6027	B C 22L
C6028	B C 22L
C6032	B C 20K
C6037	A D 21K
C6038	B C 21L
C6052	B C 22O
C6053	B C 22P
C6055	B C 22O
C6056	B C 22P
C6501	A D 21M
C6502	B C 21M
C7011	A D 9A
C7012	B C 10A
C7013	B C 17A
C7014	B C 17A
C7160	B C 14K
C7165	B C 18A
C7166	B C 19A
C7167	B C 20A
C7202	A D 19O
CONNECTOR	
CN1	A D 16M
CN501	A D 21F
CN901	A D 6P
CN902	A D 10P
CN903	A D 14P
CN904	A D 17P
CN905	A D 20P
CN2001	A D 9O
CN2002	A D 19L
CN3001	A D 7L
CN3901	A D 16B
CN5001	A D 1P
CN6701	A D 20L
CN7001	A D 2C
DIODE	
D1	A D 16P
D2	A D 16P
D4	A D 11M
D5	A D 12N
D201	A D 17E
D202	A D 17E
D203	A D 17E
D2201	A D 17I
D2251	A D 15J
D3001	A D 12H
D3002	A D 5E
D3003	A D 5C
D3004	A D 4E
D3005	A D 3E
D3008	B C 15C
D4001	A D 10F
D4002	A D 10E
D5001	B C 2M
D5101	A D 1M
D5102	A D 2K
D5103	A D 3K
D5105	A D 3K
D5203	A D 3I
D5204	A D 3I
D5205	A D 1H
D5206	A D 2H
D5207	A D 2I
D5208	A D 2I
D5209	A D 2H
D5210	A D 3I
D5301	A D 2H
D5302	A D 4G
D5303	A D 4G
D5305	A D 2F
D6002	A D 22N
D7001	A D 16A
D7002	A D 16A
D7003	A D 9A
D7051	A D 22B
IC	
IC1	B C 13L
IC2	B C 10J
IC201	A D 19E
IC301	A D 6M
IC2201	B C 16K
IC3001	B C 12D
IC3002	B C 14F
IC3003	B C 19B
IC7002	A D 8A
JACK	
J7105	A D 20A
COIL	
L1	A D 15M
L2	A D 12N
L3	A D 10M
L4	A D 11L
L5	A D 13J
L12	A D 12L
L13	A D 10J
L15	A D 11P
L18	A D 14P
L19	A D 12P
L20	A D 12N
L22	A D 11M
L24	A D 12O
L27	A D 10J
L28	A D 12N
L31	A D 21F
L201	A D 18G
L202	A D 19E
L203	A D 19E
L204	A D 17E
L206	A D 17G
L301	A D 6M
L302	A D 7M
L303	A D 7N
L304	A D 8L
L401	A D 16N
L402	A D 17O
L2001	A D 14K
L2201	A D 16J
L2251	A D 14L
L2252	A D 15K
L4001	A D 6L
L5201	A D 3H
L5202	A D 2G
L6001	A D 21J
L6002	A D 21O
L6501	A D 21N
L7201	A D 20O
TRANSISTOR	
Q1	B C 15M
Q2	B C 15M
Q3	B C 15M
Q4	B C 15M
Q5	B C 15P
Q7	B C 13P
Q8	B C 12P
Q9	B C 12O
Q10	B C 11K
Q11	B C 12J
Q14	B C 12O
Q16	B C 11O
Q17	B C 12N
Q18	B C 10P
Q19	B C 11P
Q21	B C 10J
Q22	B C 10J
Q23	B C 10J
Q24	B C 12K
Q25	B C 11K
Q32	B C 10M
Q38	B C 12O
Q40	B C 12J
Q41	B C 10J
Q50	B C 14L
Q207	B C 17G
Q208	B C 16G
Q301	B C 7L
Q302	B C 6M
Q303	B C 8L
Q311	B C 6M
Q312	B C 5L
Q401	B C 16N
Q402	B C 16N
Q403	B C 16N
Q404	B C 16N
Q405	B C 17N
Q2001	B C 14O
Q2002	B C 14O
Q2003	B C 14N
Q2004	B C 13O
Q2051	B C 7O
Q2052	B C 14N
Q2053	B C 13N
Q2054	B C 13O
Q2055	B C 14N
Q2061	B C 7O
Q2062	B C 8N
Q2063	B C 8N
Q2201	B C 18I
Q2202	B C 17I
Q2203	B C 18J
Q2204	B C 18J
Q2251	B C 15I
Q2252	B C 15J
Q2253	B C 15J
Q2254	B C 15J
Q2255	B C 15J
Q3002	A D 5I
Q3003	A D 19I
Q3004	B C 6C
Q3005	B C 3E
Q3007	B C 16C
Q3901	B C 15E
Q4001	B C 12C
Q4002	B C 9E
Q4003	B C 9D
Q5101	A D 2L
Q5102	A D 3M
Q5301	A D 4G
Q5303	A D 1F
Q5304	A D 3G
Q5305	B C 4G
Q5306	B C 4G
Q5307	A D 3E
Q5321	A D 1F
Q6030	B C 21K
Q6031	B C 21L
Q6032	B C 21L
Q7001	B C 10A
Q7002	B C 10A
Q7003	B C 11A
Q7004	B C 11A
Q7005	B C 11A
Q7006	B C 11A
Q7007	B C 12A
Q7008	B C 12A
Q7009	B C 12A
Q7010	B C 12A
Q7011	B C 13A
Q7012	B C 14B
Q7013	B C 14A
Q7014	B C 14A
Q7015	B C 16A
Q7201	A D 19P
RESISTOR	
R1	B C 13M
R2	B C 13N
R3	B C 12N
R5	B C 10K
R6	B C 12L
R7	B C 11K
R8	B C 12J
R9	B C 12J
R10	A D 14K
R21	B C 16M
R22	B C 15M
R23	B C 11P
R25	B C 14P
R26	B C 14P
R27	B C 13P
R28	B C 13P
R29	B C 13P
R30	B C 11P
R31	B C 12O
R32	B C 11P
R33	B C 11N
R34	B C 11N
R35	B C 11N
R36	B C 12K
R38	B C 11K
R39	B C 12K
R40	B C 12K
R41	B C 11J
R42	B C 11J
R43	B C 11J
R46	B C 10K
R48	B C 11J
R49	B C 10K
R50	B C 10J
R51	B C 11J
R52	B C 21G
R65	B C 11P
R66	B C 11M
R68	B C 11P
R71	B C 14L
R75	B C 11N
R76	B C 11P
R77	B C 15N
R79	B C 12K
R84	B C 14J
R85	B C 15P
R88	B C 12J
R90	B C 12N
R93	B C 12O
R104	B C 12O
R117	B C 11K
R118	B C 13K
R201	B C 19F
R202	B C 17E
R203	B C 17E
R204	B C 17E
R208	B C 18E
R209	B C 17F
R210	B C 17E
R211	B C 17F
R212	B C 17F
R213	B C 17G
R216	B C 18F
R220	B C 18F
R224	B C 17G
R225	B C 16G
R226	B C 19E
R301	B C 6L
R302	B C 6L
R303	B C 7L
R304	B C 7L
R305	B C 8L
R306	B C 7M
R307	B C 8L
R308	B C 8L
R309	B C 8M
R310	B C 7M
R311	B C 7N
R312	B C 6N
R313	B C 6M
R314	B C 5M
R315	B C 5M
R316	B C 6M
R317	B C 7L
R318	B C 8L
R321	B C 6L
R326	B C 7M
R327	B C 7M
R328	B C 7N
R329	B C 6M
R401	B C 16O
R402	B C 16N
R403	B C 16N
R404	B C 16N
R405	B C 16N
R406	B C 16N
R407	B C 17N
R408	B C 17N
R2001	B C 13K
R2002	B C 13K
R2003	B C 13K
R2004	B C 13K
R2005	B C 14K
R2006	B C 14K
R2007	B C 14K
R2008	B C 14K
R2009	B C 14K
R2010	B C 14K
R2013	B C 15N
R2014	B C 15O
R2015	B C 15O
R2016	B C 14O
R2017	B C 14O
R2018	B C 14N
R2019	B C 14N
R2020	B C 13O
R2041	A D 11O
R2051	B C 8N
R2052	B C 8N
R2053	B C 8N
R2054	B C 7O
R2055	B C 7P
R2056	A D 8O
R2057	B C 13N
R2058	B C 13N
R2059	B C 13O
R2060	B C 14O
R2061	B C 7O
R2062	B C 7P
R2063	A D 7O
R2064	B C 8N
R2065	B C 8N
R2201	B C 17L
R2202	B C 17L
R2203	B C 17L
R2204	B C 17L
R2205	B C 17M
R2206	B C 17L
R2207	B C 17M
R2208	B C 17L
R2209	B C 18J
R2210	B C 18I
R2211	B C 18J
R2212	B C 18J
R2213	B C 18I
R2214	B C 18J
R2215	B C 18J
R2216	B C 18J
R2217	B C 18J
R2218	B C 18K
R2219	B C 18K
R2220	B C 17I
R2222	B C 17M
R2223	B C 16M
R2224	B C 15J
R2225	B C 15J
R2226	B C 18L
R2227	B C 18L
R2228	B C 17M
R2229	B C 17L
R2230	B C 18L
R2231	B C 17L
R2232	B C 18L
R2233	B C 17L
R2234	B C 18J
R2235	B C 18K
R2236	B C 18L
R2237	B C 18K
R2238	B C 18L
R2239	B C 16J
R2240	B C 17I
R2251	B C 15K
R2252	B C 15L
R2253	B C 15K
R2254	A D 16I
R2255	B C 16J
R2256	B C 15J
R2257	B C 15K
R3011	B C 9C
R3012	B C 9C
R3013	B C 9C
R3014	B C 9C
R3015	B C 9C
R3016	B C 10C
R3017	B C 10C
R3018	B C 10C
R3019	B C 10C
R3020	B C 10C
R3021	B C 11C
R3022	B C 11C
R3025	B C 12C
R3026	B C 12B
R3027	B C 12B
R3029	B C 12C
R3030	B C 13C
R3031	B C 15C
R3032	B C 15C
R3033	B C 16C
R3034	B C 13C
R3035	B C 14C
R3036	B C 13C
R3037	B C 13C
R3038	B C 14C
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R3040	B C 14C
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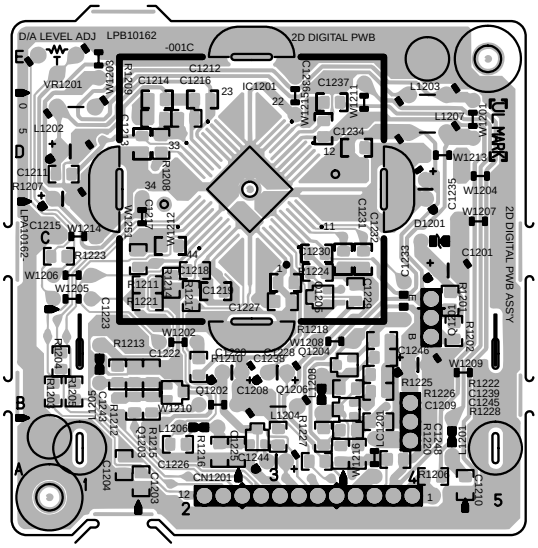
R3096	B C 11F
R3097	B C 11F
R3103	B C 11E
R3104	B C 11E
R3105	B C 11E
R3106	B C 11E
R3205	A D 10H
R3206	B C 5I
R3207	B C 19J
R3208	B C 16E
R3209	B C 15F
R3210	B C 9F
R3211	B C 9F
R3212	B C 5E
R3213	B C 5E
R3214	B C 7G
R3215	B C 7G
R3216	B C 7G
R3217	B C 7H
R3218	B C 5C
R3219	B C 6C
R3220	B C 6C
R3222	B C 3E
R3223	B C 19C
R3224	B C 19C
R3225	B C 18D
R3229	B C 14E
R3230	B C 14F
R3231	B C 14F
R3233	B C 15C
R3234	B C 15C
R3235	B C 15D
R3236	B C 15D
R3237	B C 15D
R3238	B C 15D
R3241	B C 4E
R3242	B C 10C
R3246	B C 21K
R3247	B C 11B
R3251	B C 9C
R3252	B C 6K
R3253	B C 6L
R3254	B C 6K
R3255	B C 6J
R4001	B C 9E
R4003	B C 11D
R4004	B C 11D
R4005	B C 10D
R4006	B C 10D
R4007	B C 9D
R4008	B C 12B
R4009	B C 10F
R4010	B C 11F
R4011	B C 10F
R4012	B C 10E
R4013	B C 11E
R4015	B C 9E
R4016	B C 10F
R4017	B C 9E
R4020	B C 7D
R4021	B C 9E
R5101	A D 4M
R5102	A D 4M
R5103	A D 3M
R5104	A D 1L
R5106	A D 2L
R5107	A D 3K
R5108	B C 3L
R5109	A D 3M
R5110	B C 3L
R5111	B C 3K
R5112	B C 3K
R5302	B C 4F
R5303	B C 4F
R5304	B C 4I
R5305	B C 2F
R5306	B C 1F
R5310	B C 3H
R5312	B C 4H
R5313	B C 4G
R5319	B C 2E
R5332	A D 3F
R5333	A D 3F
R6020	B C 21N
R6021	B C 21N
R6030	B C 21K
R6031	B C 21K
R6032	B C 21L
R6033	B C 20K
R6050	B C 21O
R6051	A D 21P
R6052	B C 21O
R6056	B C 21P
R6080	B C 21N
R7001	B C 12A
R7002	B C 12A
R7003	B C 13A
R7004	B C 13A
R7005	B C 13B
R7006	B C 13A
R7007	B C 13A
R7008	B C 12A
R7009	B C 16A
R7010	B C 17A
R7015	B C 9A
R7020	B C 18A
R7021	B C 17B
R7022	B C 7A
R7023	B C 7B
R7024	B C 5B
R7025	B C 1B
R7030	B C 17B
R7031	B C 17B
R7032	B C 5B
R7033	B C 4B
R7034	B C 7B
R7035	B C 3A
R7036	B C 3A
R7160	B C 18B
R7161	B C 19A
R7162	B C 19B
R7163	B C 21B
R7202	B C 20O
R7203	B C 19P
R7204	A D 19P
SWITCH	
S3001	A D 18C
S3002	A D 4E
S7001	A D 22B
S7002	A D 18B
S7004	A D 7B
S7006	A D 6B
S7008	A D 5B
S7010	A D 4B
S7011	A D 4B
S7012	A D 3B
S7013	A D 2B
S7014	A D 2B
S7015	A D 1B
S7016	A D 17B
TESTPOINT	
TP106	A D 19E
TP111	A D 19F
TP2253	A D 19E
TP2254	A D 19E
TP3901	B C 14D
TP3902	B C 13D
TP3903	B C 15E
TP3904	B C 13E
TP3905	B C 14E
TP3906	B C 14D
TP3907	B C 14D
TP3908	B C 15E
TP4001	A D 20F
OTHER	
CP3001	A D 6K
CP3002	B C 6K
CP4001	A D 3G
CP4002	B C 4G
DI7001	A D 12A
F5001	A D 2P
FC5001	A D 2P
FC5002	A D 3P
JS3001	A D 8G
K2001	B C 15O
K2002	B C 15O
K2003	B C 9N
K2004	B C 9O
K2005	B C 14N
K2006	B C 14N
K2251	B C 16L
K2252	B C 16M
K2253	B C 16M
K5101	A D 2K
K5102	A D 1N
LF5001	A D 4P
LF5002	A D 3N
PC3001	A D 15F
PC3002	A D 9F
PC5101	A D 4K
T2051	A D 7O
T2052	A D 6O
T5001	A D 1K
TU6001	A D 22P
VA5003	A D 2O
VR2251	A D 20H
X1	A D 12K
X2	A D 12K
X3001	A D 14E
X3002	A D 14E

4.18 2D DIGITAL AND 3D DIGITAL/2M CIRCUIT BOARDS

<05> 2D DIGITAL
LPB10162-001C

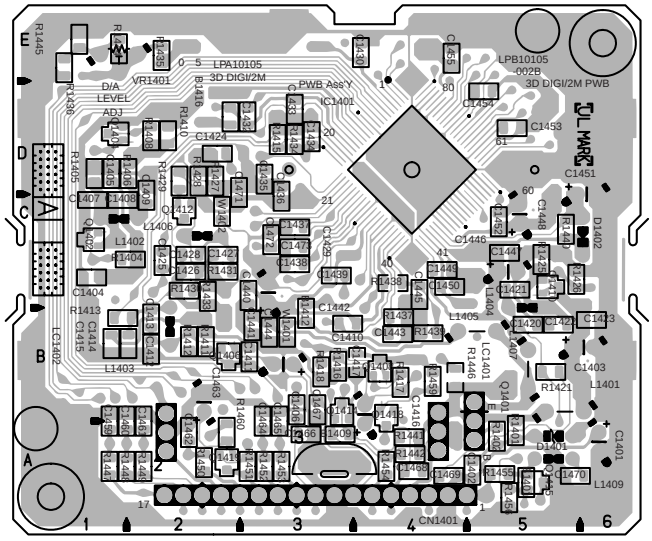


COMPONENT PARTS LOCATION GUIDE <2D DIGITAL>
LPB10162-001C

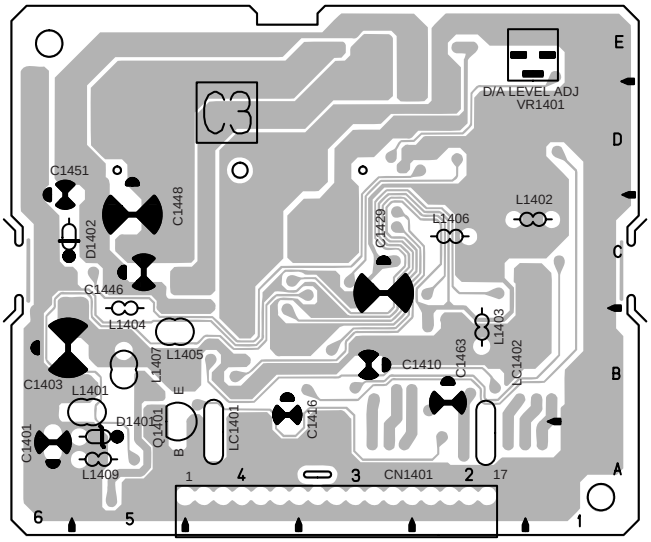
REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C1231	B C 3C	L1203	A D 4D	R1211	B C 2C
C1201	A D 4C	C1232	B C 4C	L1204	A D 3B	R1212	B C 2B
C1203	B C 2A	C1233	A D 4C	L1205	A D 1B	R1213	B C 2B
C1204	B C 1A	C1234	B C 4D	L1206	A D 2A	R1214	B C 2C
C1208	B C 3A	C1235	A D 4D	L1207	A D 4D	R1215	B C 3A
C1209	B C 4A	C1236	B C 3D	L1208	A D 3B	R1216	B C 2A
C1210	B C 5A	C1237	B C 3D	**TRANSISTOR**		R1217	B C 2C
C1211	A D 1D	C1238	B C 3B	Q1201	A D 4C	R1218	B C 3C
C1212	B C 2D	C1239	B C 4B	Q1202	B C 2B	R1220	B C 3A
C1213	B C 2D	C1243	B C 2B	Q1203	B C 3A	R1221	B C 2C
C1214	B C 2D	C1244	A D 3A	Q1204	B C 3B	R1222	B C 4B
C1215	A D 1C	C1245	B C 4B	Q1205	B C 3C	R1223	B C 1C
C1216	B C 2D	C1246	A D 4B	Q1206	B C 3B	R1224	B C 3C
C1217	B C 2C	C1248	B C 4A	**RESISTOR**		R1225	B C 3A
C1218	B C 2C	**CONNECTOR**		R1201	B C 4C	R1226	B C 4B
C1219	B C 2C	CN1201	A D 4A	R1202	B C 4B	R1227	B C 3A
C1220	A D 3B	**DIODE**		R1203	B C 1B	R1228	B C 4B
C1222	B C 2B	D1201	A D 4C	R1204	B C 1B	**OTHER**	
C1223	B C 1B	**IC**		R1205	B C 1B	LC1201	A D 4A
C1225	B C 2A	IC1201	B C 3D	R1206	B C 4A	VR1201	A D 1E
C1226	B C 2A	**COIL**		R1207	B C 1D		
C1227	B C 3C	L1201	A D 4B	R1208	B C 2D		
C1228	A D 3B	L1202	A D 1D	R1209	B C 2D		
C1229	B C 4C			R1210	B C 2B		
C1230	B C 3C						

<05> 3D DIGITAL/2M
LPB10105-002B

- FOIL SIDE (B) -



- COMPONENT SIDE (A) -

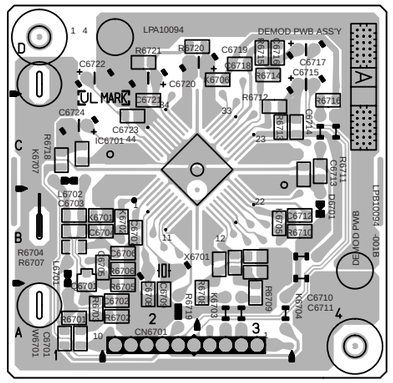


COMPONENT PARTS LOCATION GUIDE <3D DIGITAL/2M> LPB10105-002B

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C1427	B C 2C	C1453	B C 5D	**IC**		Q1418	B C 4B	R1431	B C 2C	R1460	B C 2A
C1401	A D 6A	C1428	B C 2C	C1454	B C 5D	IC1401	B C 4D	Q1419	B C 2A	R1433	B C 2C		
C1402	B C 5A	C1429	A D 3C	C1455	B C 4E					R1434	B C 3D	**OTHER**	
C1403	A D 6B	C1430	B C 4E	C1459	B C 1B	**COIL**		**RESISTOR**		R1435	B C 2E	VR1401	A D 2E
C1404	B C 1C	C1432	B C 3D	C1460	B C 2B	L1401	A D 5B	R1401	B C 5A	R1436	B C 1E		
C1405	B C 1D	C1433	B C 3D	C1461	B C 2B	L1402	A D 2C	R1402	B C 5A	R1437	B C 4B		
C1406	B C 3B	C1434	B C 3D	C1462	B C 2A	L1403	A D 2B	R1404	B C 2C	R1438	B C 4C		
C1407	B C 1C	C1435	B C 3D	C1463	A D 2B	L1404	A D 5C	R1405	B C 1D	R1439	B C 4B		
C1408	B C 2C	C1436	B C 3C	C1464	B C 3B	L1405	A D 4B	R1406	B C 2D	R1440	B C 5C		
C1409	B C 2C	C1437	B C 3C	C1465	B C 3B	L1406	A D 2C	R1408	B C 2D	R1441	B C 4A		
C1410	A D 3B	C1438	B C 3C	C1466	B C 3A	L1407	A D 5B	R1410	B C 2D	R1442	B C 4A		
C1411	B C 3B	C1439	B C 3C	C1467	B C 3B	L1409	A D 5A	R1411	B C 2B	R1444	B C 2E		
C1412	B C 2B	C1440	B C 3C	C1468	B C 4A	LC1401	A D 4A	R1412	B C 2B	R1445	B C 1E		
C1413	B C 2B	C1441	B C 3B	C1469	B C 4A	LC1402	A D 2A	R1413	B C 2B	R1446	B C 4B		
C1414	B C 2B	C1442	B C 4B	C1470	B C 6A			R1415	B C 3D	R1447	B C 1A		
C1415	B C 1B	C1443	B C 4B	C1471	B C 3D	**TRANSISTOR**		R1416	B C 3B	R1448	B C 2A		
C1416	A D 4A	C1444	B C 3B	C1472	B C 3C	Q1401	A D 5B	R1417	B C 4B	R1449	B C 2A		
C1417	B C 4B	C1445	B C 4C	C1473	B C 3C	Q1402	B C 1C	R1418	B C 3B	R1450	B C 2A		
C1420	B C 5B	C1446	A D 5C			Q1404	B C 1D	R1421	B C 5B	R1451	B C 3A		
C1421	B C 5C	C1447	B C 5C	**CONNECTOR**		Q1406	B C 2B	R1425	B C 5C	R1452	B C 3A		
C1422	B C 5B	C1448	A D 5C	CN1401	A D 5A	Q1408	B C 4B	R1426	B C 6C	R1453	B C 3A		
C1423	B C 6B	C1449	B C 4C			Q1410	B C 5C	R1427	B C 2D	R1454	B C 4A		
C1424	B C 2D	C1450	B C 4C	**DIODE**		Q1412	B C 2C	R1428	B C 2D	R1455	B C 5A		
C1425	B C 2C	C1451	A D 6D	D1401	A D 6A	Q1414	B C 3B	R1429	B C 2D	R1456	B C 5A		
C1426	B C 2C	C1452	B C 5C	D1402	A D 6C	Q1415	B C 5A	R1430	B C 2C	R1459	B C 4B		

4.19 DEMODULATOR CIRCUIT BOARD

<14> DEMODULATOR
LPB10094-001C

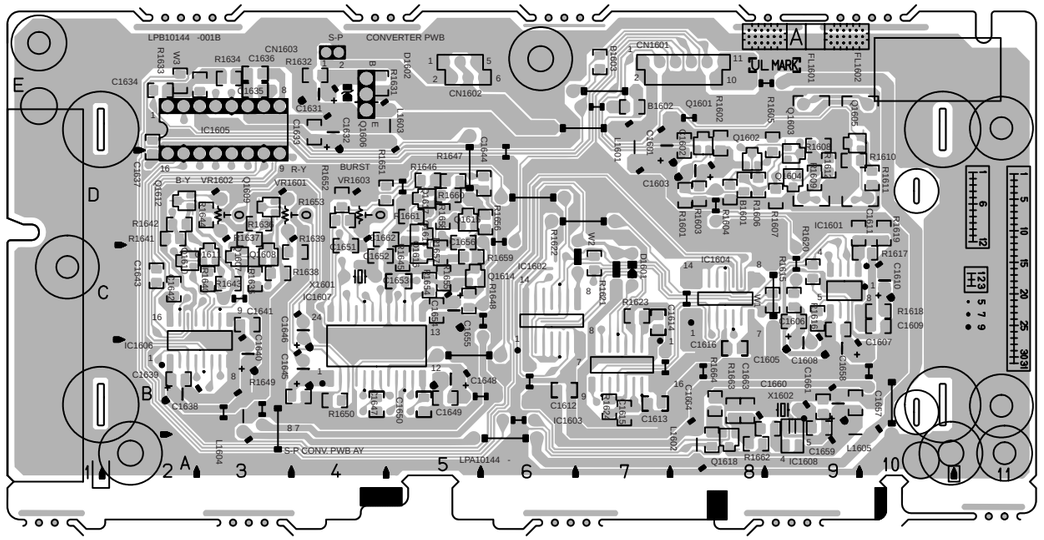


COMPONENT PARTS LOCATION GUIDE
<DEMODULATOR> LPB10094-001C

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

4.20 S-P CONVERTER CIRCUIT BOARD [HR-S6955MS/S7955MS]

<87> S-P CONVERTER
LPB10144-001B

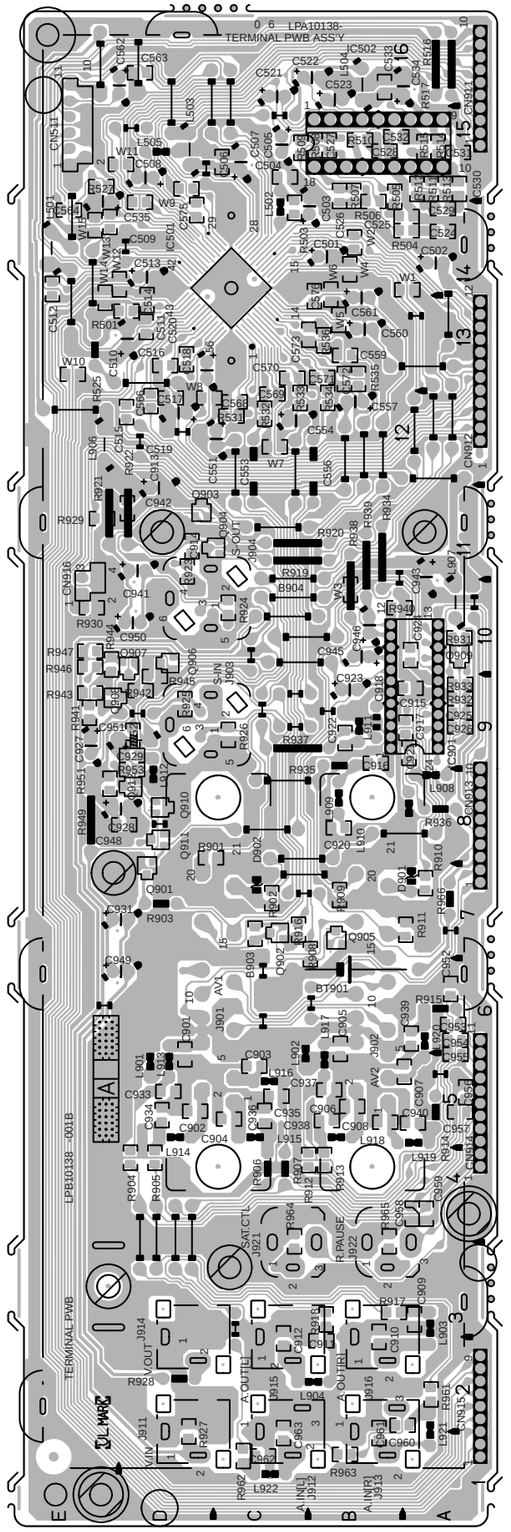


COMPONENT PARTS LOCATION GUIDE <S-P CONVERTER> LPB10144-001B

REF.NO.	LOCATION
CAPACITOR	
C1601	A D 7E
C1602	B C 8E
C1603	A D 8D
C1605	A D 9C
C1606	B C 9C
C1607	B C 9C
C1608	A D 9B
C1609	B C 10C
C1610	A D 10C
C1611	B C 9D
C1612	B C 6B
C1613	B C 7B
C1614	B C 7C
C1615	B C 7B
C1616	B C 8B
C1631	A D 4E
C1632	A D 4E
C1633	B C 4E
C1634	B C 2E
C1635	B C 3E
C1636	B C 3E
C1637	B C 2E
C1638	A D 2B
C1639	B C 2B
C1640	A D 3B
C1641	B C 3C
C1642	B C 2C
C1643	B C 2C
C1644	B C 6D
C1645	A D 4B
C1646	A D 4C
C1647	B C 4B
C1648	A D 5B
C1649	B C 5B
C1650	B C 5B
C1651	B C 4D
C1652	B C 4C
C1653	B C 5C
C1654	B C 5C
C1655	A D 5C
C1656	B C 5D
C1657	B C 9B
C1658	A D 9B
C1659	B C 9B
C1660	B C 9B
C1661	B C 9B
C1662	B C 5D
C1663	B C 8B
C1664	B C 8B
CONNECTOR	
CN1601	A D 7F
CN1602	A D 5F
CN1603	A D 4F
DIODE	
D1601	A D 7C
D1602	A D 4E
IC	
IC1601	B C 9C
IC1602	B C 6C
IC1603	B C 7B
IC1604	B C 8C
IC1605	A D 2E
IC1606	B C 3C
IC1607	B C 4C
IC1608	B C 9B
COIL	
L1601	A D 7E
L1602	A D 8A
L1603	A D 5E
L1604	A D 3B
L1605	A D 10B
TRANSISTOR	
Q1601	B C 8E
Q1602	B C 8D
Q1603	B C 9E
Q1604	B C 9D
Q1605	B C 9E
Q1606	A D 4E
Q1607	B C 3C
Q1608	B C 3C
Q1609	B C 3D
Q1610	B C 2C
Q1611	B C 3C
Q1612	B C 2D
Q1613	B C 5D
Q1614	B C 5C
Q1615	B C 5D
Q1616	B C 5C
Q1617	B C 5D
Q1618	B C 8B
RESISTOR	
R1601	B C 8D
R1602	B C 8E
R1603	B C 8D
R1604	B C 8D
R1605	B C 9E
R1606	B C 8D
R1607	B C 9D
R1608	B C 9E
R1609	B C 9D
R1610	B C 9D
R1611	B C 10D
R1612	B C 9D
R1615	B C 9C
R1616	B C 9C
R1617	B C 10C
R1618	B C 10C
R1619	B C 10D
R1620	B C 9C
R1621	A D 7C
R1622	A D 7C
R1623	B C 7C
R1624	B C 7B
R1631	B C 4E
R1632	B C 4E
R1633	B C 3E
R1634	B C 3E
R1635	B C 3C
R1636	B C 3D
R1637	B C 3D
R1638	B C 3C
R1639	B C 4C
R1640	B C 3C
R1641	B C 2D
R1642	B C 2D
R1643	B C 3C
R1644	B C 3D
R1645	B C 5C
R1646	B C 5D
R1647	B C 5D
R1648	B C 5C
R1649	B C 4B
R1650	B C 4B
R1651	B C 5D
R1652	B C 4D
R1653	B C 4D
R1654	B C 5C
R1655	B C 5C
R1656	B C 6D
R1657	B C 5C
R1658	B C 5D
R1659	B C 5C
R1660	B C 5D
R1661	B C 5D
R1662	B C 8A
R1663	B C 8B
R1664	B C 8B
VR1601	A D 3D
VR1602	A D 3D
VR1603	A D 4D
OTHER	
FL1601	A D 9D
FL1602	A D 10E
X1601	A D 4C
X1602	A D 9B

4.21 TERMINAL CIRCUIT BOARD

<06> TERMINAL
LPB10138-001B



COMPONENT PARTS LOCATION GUIDE
<TERMINAL> LPB10138-001B

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C502	A D 14A
C503	A D 14B
C504	B C 15C
C505	A D 15C
C506	B C 15C
C507	A D 15C
C508	A D 15D
C509	A D 14E
C510	A D 13D
C511	B C 13D
C512	B C 14E
C513	A D 14D
C514	B C 13D
C515	B C 12D
C516	B C 13D
C517	B C 12D
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C522	A D 16C
C523	A D 16B
C524	B C 14A
C525	B C 14A
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C527	B C 15B
C528	B C 15B
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C530	B C 15A
C531	B C 15A
C532	B C 15B
C533	B C 16B
C534	A D 16A
C535	B C 14D
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C553	A D 12C
C554	A D 12C
C556	A D 12B
C557	A D 12B
C559	B C 13B
C560	A D 13B
C561	A D 13B
C562	A D 16D
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C564	B C 14E
C566	B C 12D
C568	B C 12C
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C570	B C 13C
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C913	B C 11D
C914	B C 11D
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C920	B C 8B
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C939	B C 6A
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C943	A D 11A
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C958	B C 4A
C959	B C 4A
C960	B C 2B
C961	B C 1B
C962	B C 1C
C963	B C 1C
CONNECTOR	
CN511	A D 15E
CN911	A D 15A
CN912	A D 12A
CN913	A D 7A
CN914	A D 4A
CN915	A D 1A
CN916	A D 10E
DIODE	
D901	A D 8A
D902	A D 7C
IC	
IC501	B C 14C
IC502	A D 15B
IC901	A D 9B
JACK	
J901	A D 6C
J902	A D 6B
J903	A D 9D
J904	A D 10D
J911	A D 2D
J912	A D 2C
J913	A D 2B
J914	A D 3D
J915	A D 3C
J916	A D 3B
J921	A D 4C
J922	A D 4B
COIL	
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L502	A D 14C
L503	A D 15D
L504	A D 16B
L505	A D 15D
L901	A D 5D
L902	A D 5C
L903	A D 3A
L904	A D 2B
L906	A D 12E
L907	A D 10A
L908	A D 8A
L909	A D 8B
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L911	A D 9B
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L913	A D 6D
L914	A D 5D
L915	A D 5C
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L917	A D 6B
L918	A D 5B
L919	A D 5B
L920	A D 5A
L921	A D 2A
L922	A D 1C
TRANSISTOR	
Q901	B C 7D
Q902	B C 7C
Q903	B C 11D
Q904	B C 11D
Q905	B C 7B
Q906	B C 10D
Q907	B C 10D
Q908	B C 9E
Q909	B C 10A
Q910	B C 8D
Q911	B C 8D
Q912	B C 8D
RESISTOR	
R501	B C 13D
R503	B C 14C
R504	B C 14A
R505	B C 15B
R506	B C 14B
R507	B C 15B
R508	B C 15B
R509	B C 15C
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R512	B C 15A
R513	B C 15A
R514	B C 15A
R515	B C 15A
R516	A D 16A
R517	A D 16A
R525	A D 13E
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R532	B C 12C
R533	B C 12C
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R911	B C 7A
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R916	B C 7C
R917	B C 3B
R918	B C 3B
R919	A D 11B
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R921	A D 11E
R922	A D 11D
R923	B C 11D
R924	B C 10C
R925	B C 9D
R926	B C 9C
R927	B C 2D
R928	A D 2D
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R932	B C 9A
R933	B C 9A
R934	A D 11B
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R936	A D 8A
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R961	B C 2A
R962	B C 1C
R963	B C 1B
R964	B C 4C
R965	B C 4B
R966	A D 7A
OTHER	
BT901	A D 6B

4.22 WAVEFORMS

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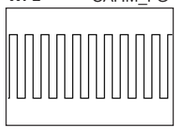
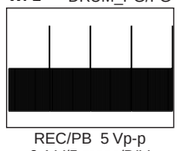
WF1 CN3001-1 CAP.M_FG



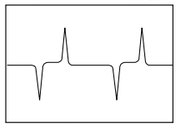
REC/PB 4.6 Vp-p
0.1 V/0.5 msec/DIV

WF2 CN3001-11 DRUM_PG/FG



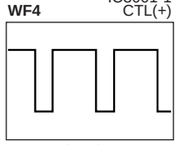
REC/PB 5 Vp-p
0.1 V/5 msec/DIV

WF3 TP4001 CTL.P



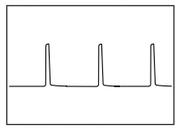
PB 2.7 Vp-p
50 mV/5 msec/DIV

WF4 IC3001-1 CTL(+)



REC 4.2 Vp-p
0.1 V/5 msec/DIV

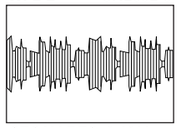
WF5 IC3001-98 C.SYNC



REC/PB 2.2 Vp-p
0.1 V/20 µsec/DIV

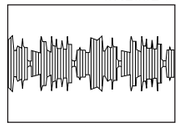
< S-P CONVERTER >

WF1-1 CN1601-9



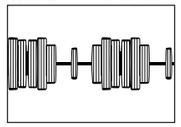
SECAM REC 0.46 Vp-p
10 mV/20 µsec/DIV

WF1-2 CN1601-9



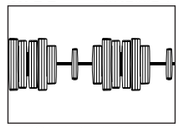
SECAM PB 0.4 Vp-p
10 mV/20 µsec/DIV

WF2-1 CN1601-7



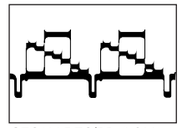
SECAM REC 0.52 Vp-p
10 mV/20 µsec/DIV

WF2-2 CN1601-7



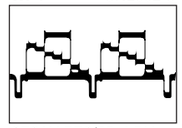
SECAM PB 0.68 Vp-p
10 mV/20 µsec/DIV

WF3 CN1601-5



SECAM REC/PB 1.0 Vp-p
20 mV/20 µsec/DIV

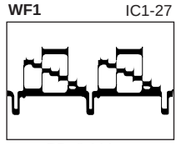
WF4 CN1601-3



SECAM REC/PB 1.5 Vp-p
10 mV/20 µsec/DIV

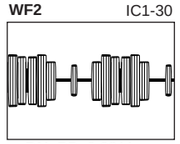
< VIDEO >

WF1 IC1-27



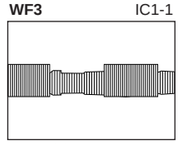
PB 2.1 Vp-p
50 mV/20 µsec/DIV

WF2 IC1-30



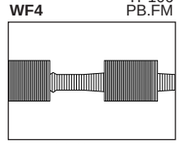
PAL PB 0.68 Vp-p
20 mV/20 µsec/DIV

WF3 IC1-1



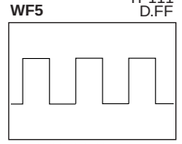
PB 0.3 Vp-p
20 mV/5 msec/DIV

WF4 TP106 PB.FM



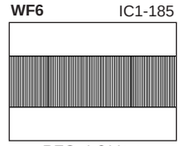
PB 0.5 Vp-p
20 mV/5 msec/DIV

WF5 TP111 D.FF



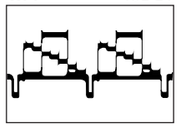
REC/PB 3.4 Vp-p
0.1 V/10 msec/DIV

WF6 IC1-185



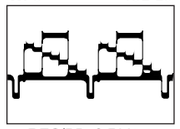
REC 1.8 Vp-p
0.1 V/1 msec/DIV

WF7 IC1-14



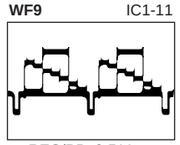
PB 0.5 Vp-p
20 mV/20 µsec/DIV

WF8 IC1-13



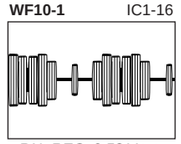
REC/PB 0.5 Vp-p
20 mV/20 µsec/DIV

WF9 IC1-11



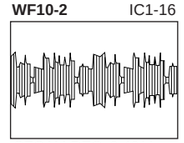
REC/PB 0.5 Vp-p
20 mV/20 µsec/DIV

WF10-1 IC1-16



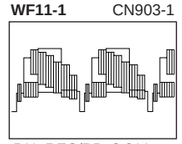
PAL REC 0.58 Vp-p
20 mV/20 µsec/DIV

WF10-2 IC1-16



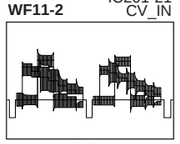
SECAM REC 0.46 Vp-p
10 mV/20 µsec/DIV

WF11-1 CN903-1



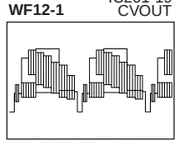
PAL REC/PB 2.2 Vp-p
50 mV/20 µsec/DIV

WF11-2 IC201-21 CV_IN



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

WF12-1 IC201-19 CVOUT



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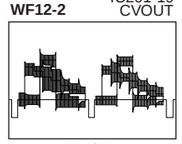
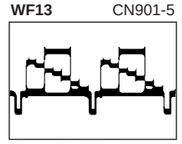
50 mV/20 µsec/DIV

WF12-2 IC201-19 CVOUT



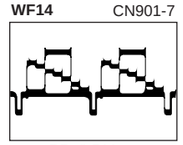
SECAM REC/PB 2.3 Vp-p
50 mV/20 µsec/DIV

WF13 CN901-5



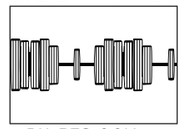
REC/PB 0.52 Vp-p
20 mV/20 µsec/DIV

WF14 CN901-7



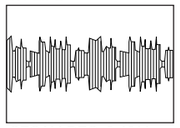
PB 0.5 Vp-p
20 mV/20 µsec/DIV

WF15-1 CN901-9



PAL REC 0.6 Vp-p
20 mV/20 µsec/DIV

WF15-2 CN901-9



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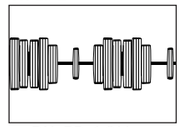
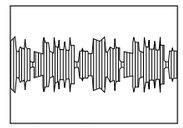
10 mV/20 µsec/DIV

WF16-1 CN905-9



PAL PB 1.3 Vp-p
50 mV/20 µsec/DIV

WF16-2 CN905-9



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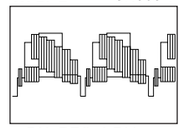
50 mV/20 µsec/DIV

WF17-1 CN905-7



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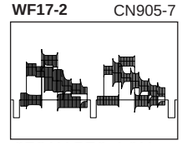
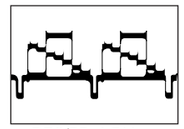
WF17-2 CN905-7



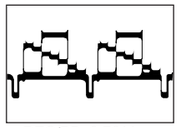
SECAM REC 1.8 Vp-p
50 mV/20 µsec/DIV

WF17-4 CN905-7



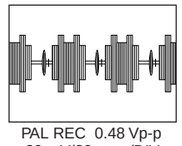
REC/PB 1.7 Vp-p
50 mV/20 µsec/DIV

WF18 CN905-5



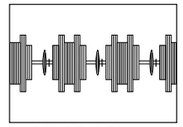
REC/PB 0.76 Vp-p
20 mV/20 µsec/DIV

WF19-1 CN905-3



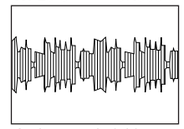
PAL REC 0.48 Vp-p
20 mV/20 µsec/DIV

WF19-2 CN905-3



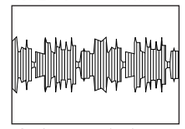
PAL PB 0.7 Vp-p
20 mV/20 µsec/DIV

WF19-3 CN905-3



SECAM REC 0.36 Vp-p
10 mV/20 µsec/DIV

WF19-4 CN905-3



SECAM PB 0.46 Vp-p
10 mV/20 µsec/DIV

WF20 CN902-3

SECAM PB 0.38 Vp-p
10 mV/20 µsec/DIV

WF21 CN902-1

PAL PB 0.6 Vp-p
20 mV/20 µsec/DIV

WF22 CN902-5

PB 2.2 Vp-p
50 mV/20 µsec/DIV

WF23-1 CN902-9

PAL REC/PB 2.2 Vp-p
50 mV/20 µsec/DIV

WF23-2 CN902-9

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

WF24 IC301-15

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

WF25 IC30-17

SECAM PB 0.44 Vp-p
20 mV/20 µsec/DIV

WF26 IC301-11

SECAM REC 0.44 Vp-p
10 mV/20 µsec/DIV

WF27 IC301-13

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

< AUDIO >

WF1 IC2201-9

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

WF2 IC2201-53

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

WF3 IC2201-21

REC 1.1 Vp-p
0.1 V/5 msec/DIV

WF4 TP2253 A.PB.FM

PB 0.5 Vp-p
50 mV/5 msec/DIV

WF5 IC1-53

PB 0.58 Vp-p
10 mV/0.5 msec/DIV

WF6 IC1-63

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

WF7 IC1-99

REC 0.7 Vp-p
20 mV/0.5 msec/DIV

4.23 VOLTAGE CHARTS

MODE PIN NO.	REC	PLAY
IC1		
1	1.5	2.3
2	2.8	2.8
3	2.6	2.6
4	1.9	1.5
5	1.9	1.5
6	2.4	2.1
7	1.4	0.8
8	0	0
9	2.6	3.1
10	2.3	2.3
11	3.1	3.1
12	2.8	2.8
13	3.1	3.1
14	2.3	2.3
15	0	0
16	2.8	2.8
17	1.4	1.4
18	2.8	2.8
19	2.8	2.8
20	2.8	2.8
21	2.0	2.0
22	2.8	2.8
23	2.8	2.8
24	5.0	5.0
25	0.4	0.4
26	0	0
27	2.3	2.3
28	2.3	2.3
29	1.9	1.9
30	2.1	2.1
31	0	0
32	2.5	2.5
33	5.0	5.0
34	2.7	2.3
35	5.0	5.0
36	2.5	0
37	2.3	2.3
38	-	-
39	1.2	1.2
40	-	-
41	2.5	2.5
42	-	-
43	0	0
44	2.2	2.2
45	4.6	4.6
46	4.9	4.6
47	2.9	2.9
48	2.6	2.6
49	5.0	5.0
50	2.5	2.5
51	2.8	2.8
52	0	0
53	2.6	2.6
54	0	0
55	0	0
56	0	0
57	0	0
58	0	0
59	0	0
60	0	0
61	0	0
62	0	0
63	0	0
64	0	0
65	2	2
66	0	0
67	0	0
68	0	0
69	0	0
70	0	0
71	0	0
72	0	0
73	3.1	3.1
74	0	0
75	0	0
76	0	0
77	0	0
78	0	0
79	5.0	5.0
80	5.0	5.0
81	0	0
82	0	0
83	0	0
84	2.2	2.2
85	2.4	2.4
86	2.2	2.2
87	5.0	5.0
88	0	0
89	0	0

MODE PIN NO.	REC	PLAY
90	0	0
91	0	4.0
92	2.6	2.6
93	0.8	0.5
94	0	0
95	2.5	2.5
96	2.5	2.5
97	2.5	2.5
98	0	0
99	2.5	2.5
100	0	0
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
IC301[HR-S6955MS/S7955MS]		
1	0.2	0.2
2	1.9	1.9
3	3.8	3.8
4	0.4	0.4
5	0	0
6	3.1	3.1
7	0	0
8	2.4	2.4
9	2.4	2.4
10	2.2	2.2
11	2.4	0
12	4.4	4.4
13	2.4	2.4
14	3	1.9
15	2.7	2.7
16	0.3	4.9
17	0.2	2.5
18	2.2	2.2
19	2.3	2.3
20	2.4	2.4
21	2.4	2.4
22	4.8	4.8
23	3.1	3.1
24	3.1	3.1
25	2.7	2.7
26	0	0
27	0.4	0.4
28	0.3	0.3
IC2201		
1	2.3	2.3
2	0	0
3	2.3	2.3
4	0	0
5	0	0
6	2.4	2.4
7	2.0	2.0
8	0	0
9	0	0
10	0	0
11	0	0
12	2.0	2.0
13	0	0
14	0	0
15	0	0
16	2.4	2.4
17	0.5	0.5
18	2.4	2.4

MODE PIN NO.	REC	PLAY
19	2.4	2.4
20	2.4	2.4
21	2.4	0
22	2.5	0.7
23	0	0
24	2.5	0.7
25	4.8	4.8
26	2.5	0
27	0	-
28	4.1	2.8
29	4.3	1.7
30	4.4	1.6
31	1.1	1.8
32	2.4	2.4
33	2.4	2.4
34	0.8	0.8
35	2.4	2.4
36	0	0.2
37	1.6	1.6
38	0	0
39	0	0
40	4.8	4.8
41	0	0
42	4.8	0
43	4.7	4.7
44	3.3	3.3
45	0	0
46	4.7	4.7
47	2.4	2.4
48	2.4	2.4
49	0.4	0.4
50	0.2	0.2
51	0	0
52	0	0
53	4.3	4.3
54	0	0
55	0	0
56	0	0
57	4.4	4.4
58	9.6	9.6
59	4.4	0
60	0.8	0.8
61	2.4	2.4
62	2.4	2.4
63	4.2	4.2
64	4.3	4.3
IC3001		
1	2.5	2.5
2	0	0
3	2.5	2.5
4	2.4	2.4
5	0	1.5
6	2.4	2.6
7	2.4	2.4
8	2.4	2.4
9	4.8	4.8
10	4.8	4.8
11	0	0
12	0	0.2
13	0	2.0
14	4.4	4.6
15	4.9	4.6
16	0.6	0.6
17	4.0	4.0
18	0	0
19	3.1	3.1
20	4.5	4.5
21	3.8	3.8
22	0.2	1.9
23	0	0
24	4.8	4.8
25	0	0
26	4.9	4.9
27	4.9	4.9
28	4.9	4.9
29	4.9	4.9
30	0	0
31	4.9	4.9
32	4.9	4.9
33	0	0
34	4.9	4.9
35	0	0
36	0	0
37	0	0
38	0	4.9
39	4.0	4.0
40	0	0
41	4.8	4.8
42	4.8	4.8
43	0	0

MODE PIN NO.	REC	PLAY
44	0	0
45	4.9	4.9
46	0	0
47	2.8	2.8
48	0	0
49	4.1	4.1
50	4.6	4.6
51	1.3	1.3
52	1.3	1.3
53	4.2	4.2
54	5.0	5.0
55	5.0	5.0
56	4.9	4.9
57	0	0
58	4.9	4.9
59	0	0
60	4.9	4.9
61	4.9	4.9
62	0	0
63	0	0
64	-	-
65	-	-
66	-	-
67	-	-
68	0	0
69	-	-
70	3.3	3.3
71	4.9	4.9
72	4.9	4.9
73	4.9	4.9
74	0	0
75	4.4	4.4
76	4.4	4.4
77	4.9	0
78	0	0
79	0	0
80	0	0
81	4.9	4.9
82	4.9	4.9
83	2.4	2.4
84	0	0
85	0	0
86	4.9	4.9
87	4.9	0
88	4.9	4.9
89	0	0
90	0	0
91	0	0
92	4.9	4.9
93	0	0
94	0	0
95	4.9	4.9
96	0	0
97	4.9	0
98	0.8	0.8
99	0	2.2
100	2.4	2.4
101	2.4	2.4
102	1.4	1.4
103	4.9	4.9
104	4.9	0
105	4.9	0
106	0	0
107	0	0
108	1.2	1.2
109	4.9	4.9
110	0	0
111	0	0
112	2.4	2.4
IC3002		
1	4.9	4.9
2	4.9	4.9
3	0	0
4	0	0
IC3003		
1	0	0
2	0	0
3	0	0
4	0	0
5	4.5	4.5
6	4.5	4.5
7	0	0
8	4.9	4.9
IC7002		
1	4.9	4.9
2	4.9	4.9
3	0	0

MODE PIN NO.	REC	PLAY
CN1 [Except HR-S7955MS]		
1	0	0
2	0	0
3	0	0
4	2.3	2.3
5	2.3	2.3
6	2.3	2.3
7	2.6	2.3
8	2.6	2.3
9	2.6	2.3
CN1 [HR-S7955MS]		
1	0	0
2	0	0
3	0	0
4	2.3	2.3
5	2.3	2.3
6	2.3	2.3
7	2.6	2.3
8	2.6	2.3
9	2.6	2.3
10	0	0
11	0	0
CN501		
1	2.4	2.4
2	0	0
3	2.3	2.3
4	4.9	4.9
5	2.1	2.1
6	0.3	4.5
7	3.3	3.3
8	0	0
9	2.8	2.8
10	0	0
11	4.6	4.6
12	4.1	4.1
13	0	0
14	2.5	2.5
15	2.5	2.5
16	0	0
17	0	0
CN901		
1	4.6	4.6
2	4.1	4.1
3	0.3	0.3
4	0	0
5	2.5	2.3
6	0	0
7	3.5	2.4
8	0	0
9	2.8	2.8
10	4.9	4.9
CN902		
1	2.8	2.8
2	0	0
3	0	0
4	2.4	2.1
5	1.3	2.3
6	4.9	4.9
7	0	0
8	0	0
9	2.3	2.3
10	0	0
11	0	0
12	2.4	2.1
CN903		
1	4.7	4.7
2	0	0
3	0	0
4	0	0
5	0.8	0.8
6	10.1	10.1
7	10.1	10.1
8	4.5	4.5
9	4.5	4.5
10	0	0
CN904		
1	0	0
2	4.9	4.9
3	0	0
4	0.2	0.2
5	0	0.2
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
CN905		
1	2.4	2.4
2	0	0

MODE PIN NO.	REC	PLAY
3	2.8	2.8
4	0	0
5	3.3	3.3
6	0	0
7	2.1	2.1
8	0	0
9	2.3	2.3
CN2001		
1	0	0
2	0	0
3	0	0
4	0	0
5	2.3	2.3
6	2.2	2.2
CN2002		
1	0	0
2	0	0
CN3001		
1	2.6	2.7
2	13.5	13.5
3	6.0	6.0
4	0	0
5	0	8.0
6	0	0
7	0	0
8	13.3	13.3
9	3.0	3.1
10	3.0	3.0
11	1.5	1.5
12	3.0	3.1
CN6701		
1	0	0
2	4.6	4.6
3	4.5	4.5
4	4.8	4.8
5	0.3	0.3
6	0.3	0.3
7	5.0	5.0
8	0	0
9	0	0
10	0.1	0
CN7001		
1	-	-
2	-	-
3	5.6	5.6
4	0	0
5	5.8	0
6	5.8	5.8

<2D DIGITAL>
[HR-S6950EU,HR-S6955MS, HR-S7955MS]

MODE PIN NO.	REC	PLAY
IC1201	-	-
CN1201		
1	2.4	2.4
2	0	0
3	2.3	2.3
4	4.9	4.9
5	2.1	2.1
6	0.3	4.5
7	3.3	3.3
8	0	0
9	2.8	2.8
10	0	0
11	4.6	4.6
12	4.1	4.1

<3D/TBC (2M)>
[HR-S7950EU,HR-S7955EK]

MODE PIN NO.	REC	PLAY
IC1401	-	-
CN1401		
1	2.4	2.4
2	0	0
3	2.3	2.3
4	4.9	4.9
5	2.1	2.1
6	0.3	4.5
7	3.3	3.3
8	0	0
9	2.8	2.8
10	0	0
11	4.6	4.6
12	4.1	4.1
13	0	0

MODE PIN NO.	REC	PLAY
14	0.8	0.8
15	2.5	2.5
16	0	0
17	2.5	2.5

<TERMINAL>

MODE PIN NO.	REC	PLAY
IC501	-	-
IC502		
1	2.0	2.0
2	0.1	4.9
3	3.3	3.3
4	3.4	3.4
5	4.9	4.9
6	2.2	2.2
7	2.0	2.0
8	4.9	0
9	1.4	0
10	2.9	2.9
11	2.9	2.9
12	2.9	2.9
13	0	0
14	2.8	2.8
15	2.8	2.8
16	1.9	1.9
17	2.0	2.0
18	1.9	1.9
IC901	-	-
CN511		
1	4.9	4.9
2	4.9	4.9
3	2.8	2.8
4	0	0
5	1.8	1.8
6	0	0
7	2.8	2.8
8	0	0
9	2.1	2.1
10	12.0	12.0
11	12.0	12.0
CN911		
1	4.6	4.6
2	4.1	4.1
3	0.3	0.3
4	0	0
5	2.5	2.3
6	0	0
7	3.5	2.4
8	0	0
9	2.8	2.8
10	4.9	4.9
CN912		
1	2.8	2.8
2	0	0
3	0	0
4	2.4	2.1
5	1.3	2.3
6	4.9	4.9
7	0	0
8	0	0
9	2.3	2.3
10	0	0
11	0	0
12	2.4	2.1
CN913		
1	4.7	4.7
2	0	0
3	0	0
4	0	0
5	0.8	0.8
6	10.1	10.1
7	10.1	10.1
8	4.5	4.5
9	4.5	4.5
10	0	0
CN914		
1	0	0
2	4.9	4.9
3	0	0
4	0.2	0.2
5	0	0.2
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0

MODE PIN NO.	REC	PLAY
CN915		
1	2.4	2.4
2	0	0
3	2.8	2.8
4	0	0
5	3.3	3.3
6	0	0
7	2.1	2.1
8	0	0
9	2.3	2.3
CN916		
1	0	0
2	0	0
3	0	0
4	0	0

<DEMOD>

MODE PIN NO.	REC	PLAY
IC6701		
1	4.3	4.3
2	1.5	1.5
3	1.5	0
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	2.2
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	4.6	4.6
3	4.5	4.5
4	4.8	4.8
5	0.3	0.3
6	0.3	0.3
7	5.0	5.0
8	0	0
9	0	0
10	0.1	0

<MINI FRONT>[HR-S7955MS]

MODE PIN NO.	REC	PLAY
CN7002		
1	5.8	5.8
2	5.8	0
3	0	0
4	5.6	5.6
5	-	-
6	-	-

MODE PIN NO.	REC	PLAY
CN7005		
1	5.6	5.6
2	0	0
3	5.8	0
4	5.8	5.8

<S-JACK>

MODE PIN NO.	REC	PLAY
CN7108		
1	0	0
2	0	0
3	0	0
4	0	0

<ADV.JOG>

MODE PIN NO.	REC	PLAY
CN7003		
1	5.8	5.8
2	5.8	0
3	0	0
4	5.6	5.6

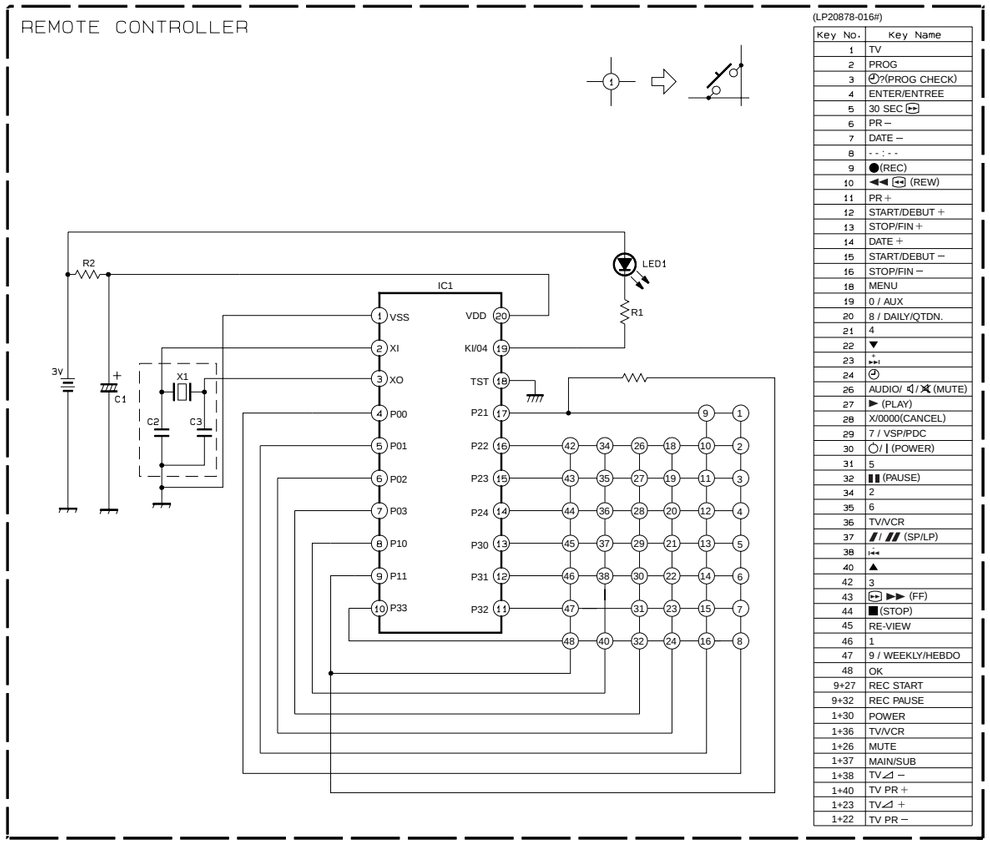
<S-P CONVERTER>

MODE PIN NO.	REC	PLAY
IC1601		
1	2.0	2.0
2	4.4	4.4
3	0	0.9
4	4.8	4.1
5	0	0
6	2.1	4.9
7	4.9	4.9
8	2.2	2.2
IC1602		
1	4.9	4.9
2	4.4	4.4
3	0.4	0.4
4	0.4	0.4
5	0.4	0.4
6	4.4	4.4
7	0	0
8	0.5	0.5
9	4.4	4.4
10	0	4.7
11	0	4.4
12	0	4.7
13	0.4	0.4
14	4.9	4.9
IC1603		
1	0	0
2	4.6	4.6
3	4.9	4.9
4	0	0
5	0.4	0.4
6	0.3	0.3
7	4.5	4.5
8	0	0
9	1.5	1.5
10	3.3	3.3
11	4.9	4.9
12	0	0.9
13	4.9	4.9
14	2.3	2.3
15	0	0
16	4.9	4.9
IC1604		
1	4.9	4.9
2	3.3	3.3
3	0.9	0.9
4	4.9	4.9
5	0.1	0.1
6	4.7	4.7
7	0	0
8	2.4	2.4
9	2.4	2.4
10	4.9	4.9
11	0	4.4
12	2.4	2.4
13	4.9	4.9
14	4.9	4.9

MODE PIN NO.	REC	PLAY
IC1605		
1	8	8.1
2	1.1	1.1
3	8.1	8.1
4	0	0
5	0	0
6	0	0
7	3.2	3.2
8	4.2	4.1
9	2.8	2.8
10	2.9	2.8
11	0	0
12	0	0
13	0	0
14	0	0
15	0.5	0.5
16	0	0
IC1606		
1	4.8	4.8
2	0	0
3	0	0
4	0.1	0.4
5	0.5	0.5
6	0	0
7	0.1	0.4
8	0	0
9	4.8	4.8
10	0	0
11	3.0	3.0
12	3.0	3.0
13	0.5	0
14	1.5	1.4
15	0.6	0
16	1.5	1.4
IC1607		
1	2.5	2.5
2	0	0
3	2.5	2.5
4	2.4	2.4
5	2.1	2.1
6	2.0	2.0
7	2.3	2.2
8	4.8	4.8
9	2.3	2.2
10	0	0
11	2.3	2.2
12	2.0	2.0
13	2.5	2.5
14	0	1.7
15	0	0.8
16	0.6	0.6
17	0	0
18	0	0
19	0	0
20	0	0.1
21	2.5	2.5
22	0	1.9
23	1.2	1.2
24	0	2.1
CN1601		
1	12.0	12.0
2	12.0	12.0
3	2.1	2.1
4	0	0
5	2.8	2.8
6	0	0
7	1.8	1.8
8	0	0
9	2.8	2.8
10	4.9	4.9
11	4.9	4.9

4.24 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.

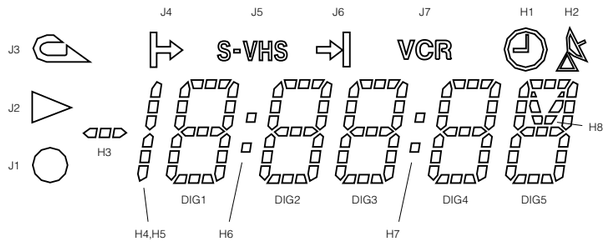


(LP20878-016#)

Key No.	Key Name
1	TV
2	PROG
3	?(PROG CHECK)
4	ENTER/ENTREE
5	30 SEC
6	PR –
7	DATE –
8	- - : - -
9	●(REC)
10	◄◄ (REW)
11	PR +
12	START/DEBUT +
13	STOP/FIN +
14	DATE +
15	START/DEBUT –
16	STOP/FIN –
18	MENU
19	0 / AUX
20	8 / DAILY/QTDN.
21	4
22	▼
23	
24	
26	AUDIO/ / (MUTE)
27	► (PLAY)
28	X/0000(CANCEL)
29	7 / VSP/PDC
30	/ (POWER)
31	5
32	▮▮ (PAUSE)
34	2
35	6
36	TV/VCR
37	/ (SP/LP)
38	
40	▲
42	3
43	►► (FF)
44	■(STOP)
45	RE-VIEW
46	1
47	9 / WEEKLY/HEBDO
48	OK
9+27	REC START
9+32	REC PAUSE
1+30	POWER
1+36	TV/VCR
1+26	MUTE
1+37	MAIN/SUB
1+38	TV –
1+40	TV PR +
1+23	TV +
1+22	TV PR –

4.25 FDP GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT



ANODE CONNECTION

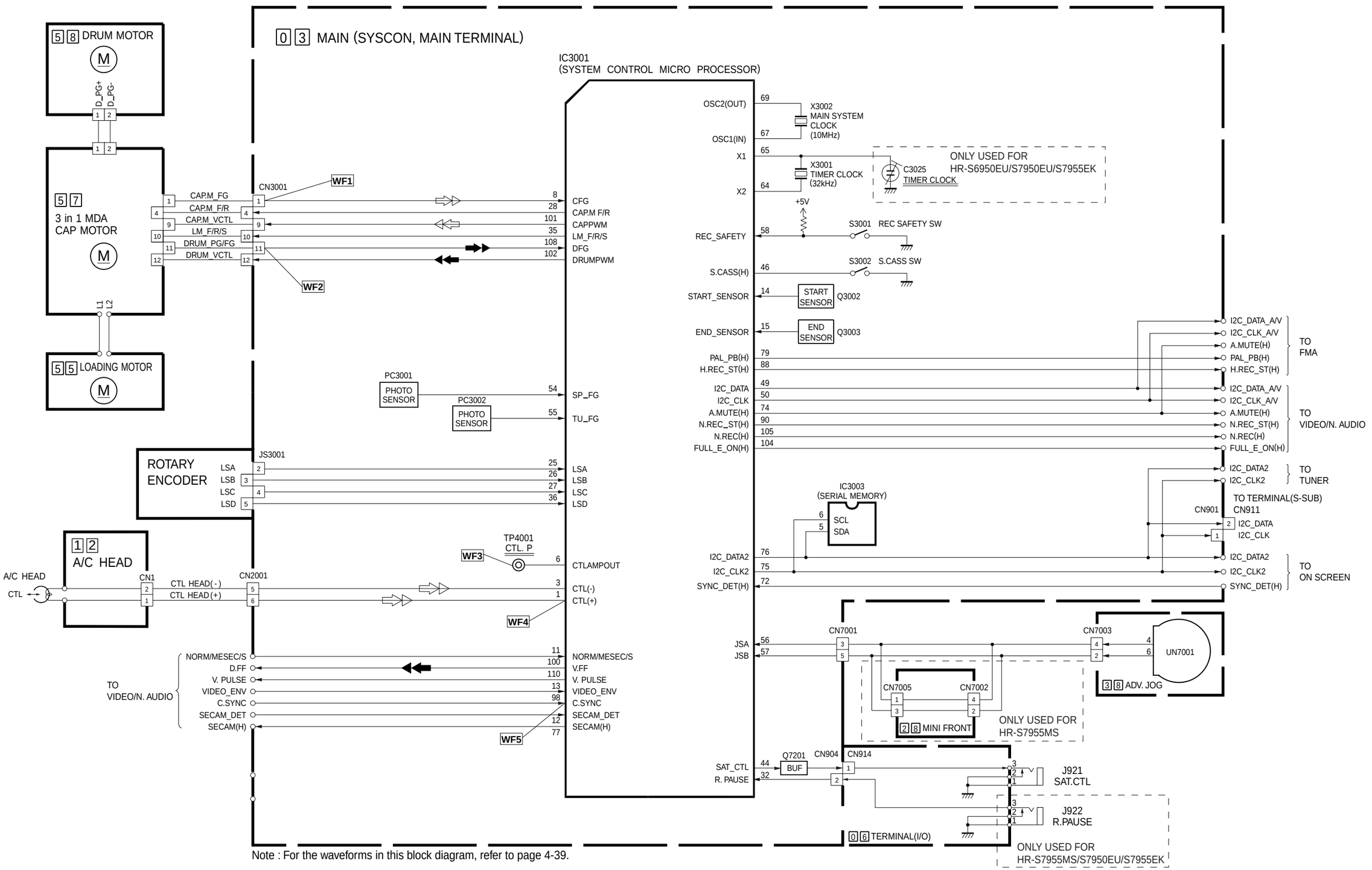
No.	CONNECTION
1	CATHODE G, J7, H8
2	CATHODE F, J6, H7
3	CATHODE E, J5, H6
4	CATHODE D, J4, H4, H5
5	CATHODE C, J3, H3
6	CATHODE B, J2, H2
7	CATHODE A, J1, H1
8	COMMON ANODE H1-H8
9	COMMON ANODE J1-J7
10	COMMON ANODE (DIGIT 5)
11	COMMON ANODE (DIGIT 4)
12	COMMON ANODE (DIGIT 3)
13	COMMON ANODE (DIGIT 2)
14	COMMON ANODE (DIGIT 1)

4.26 CPU PIN FUNCTION

<SYSCON IC3001>

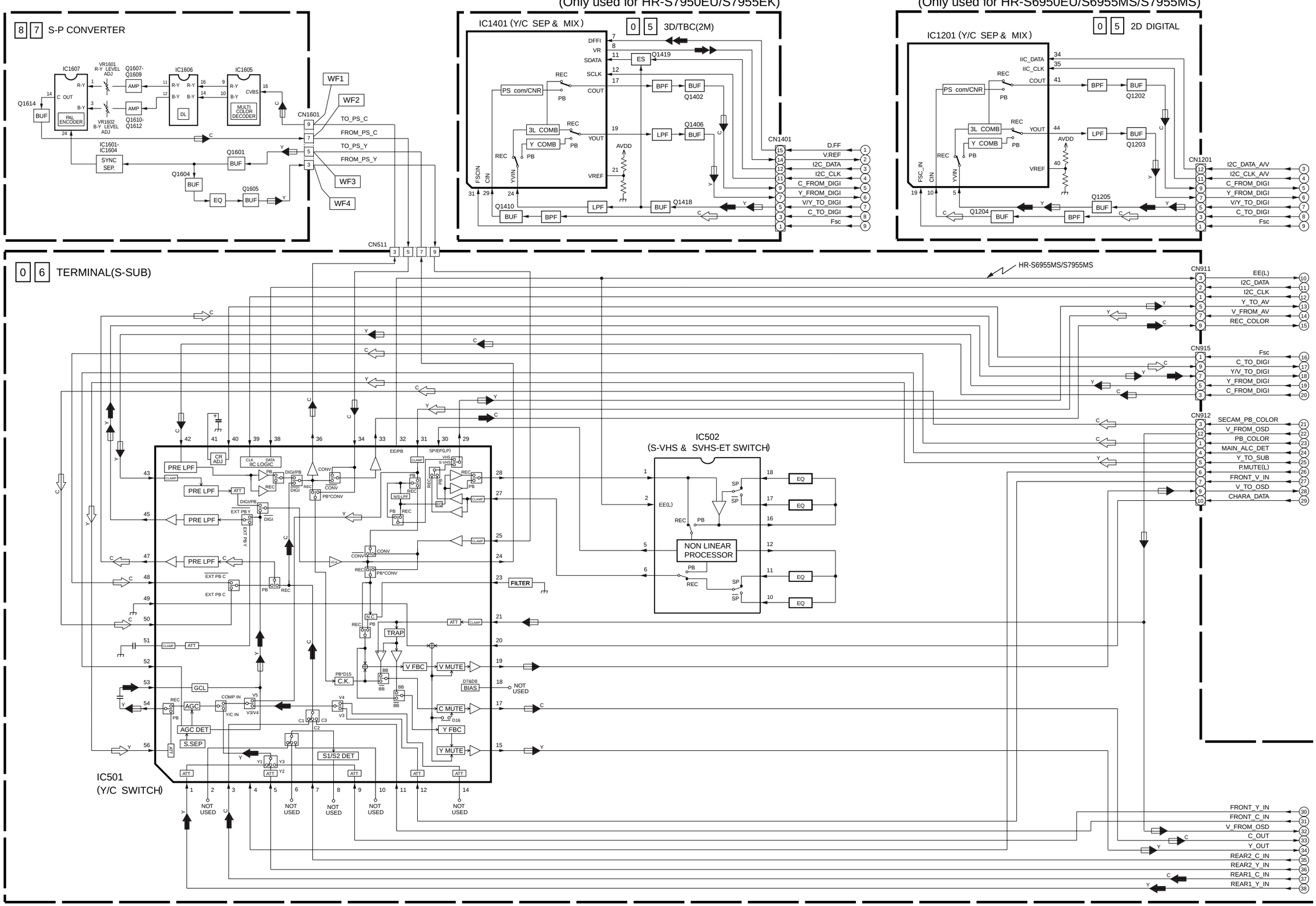
PIN NO.	LABEL	IN/OUT	FUNCTION
1	CTL(+)	IN/OUT	CTL(+) SIGNAL
2	SVSS	-	GND
3	CTL(-)	IN/OUT	CTL(-) SIGNAL
4	CTLBIAS	-	CTL BIAS VOLTAGE
5	CTLFB	IN	CTL PULSE FEEDBACK
6	CTLAMPOUT	OUT	CTL PULSE OUTPUT
7	CTLSMTIN	IN	CTL PULSE INPUT
8	CFG	IN	CAPSTAN FG PULSE INPUT
9	SVCC	-	SYSTEM POWER
10	AVCC	-	SYSTEM POWER FOR ANALOG CIRCUIT
11	NORM/MESEC/S	IN	(NORM MODE: L/MESECAM MODE: M/SVHS MODE:H)
12	SECAM_DET	IN	SECAM COLOR DETECT (SECAM:H)
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	KEY1	IN	OPERATION CONTROL SIGNAL
17	PROTECT	IN	DETECTION SIGNAL FOR SW POWER SUPPLY
18	SCR_ID/	IN	SCRAMBLE CONTROL INPUT (SCRAMBLE:H)
19	KEY2	IN	OPERATION CONTROL SIGNAL
20	AFC	IN	TUNING CHECK
21	RF AGC	IN	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/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.M F/R	OUT	CAPSTAN MOTOR FORWARD/REVERSE CONTROL
29	RC	IN	REMOTE CONTROL DATA INPUT
30	DIG1	OUT	LED DRIVE
31	P50_IN	IN	CONTROL SIGNAL FOR TV LINK
32	R.PAUSE	IN	REMOTE PAUSE CONTROL
33	P50_OUT	OUT	CONTROL SIGNAL FOR TV LINK
34	DIG2	OUT	LED DRIVE
35	LM_F/R/S	OUT	LOADING MOTOR DRIVE
36	LSD	OUT	MECHANISM MODE DETECT (D)
37	DIG3	OUT	LED DRIVE
38	SB_GAIN(PWM)	OUT	VOLTAGE CONTROL SIGNAL FOR VIDEO FREQUENCY RESPONSE
39	DIG4	OUT	LED DRIVE
40	POWER_DET	IN	DETECTION SIGNAL FOR POWER DOWN OF AC POWER SUPPLY
41	P.CTL(H)	OUT	CONTROL SIGNAL FOR SWITCHING POWER SUPPLY
42	DIG5	OUT	LED DRIVE
43	VSS	-	GND
44	SAT_CTL	OUT	CONTROL SIGNAL FOR SATELLITE RECEIVER
45	VCC	-	SYSTEM POWER
46	S.CASS(H)	IN	DETECTION SIGNAL FOR SVHS CASSETTE (SVHS:H)
47	OSD_CS	OUT	CHIP SELECT FOR THE ON-SCREEN IC
48	MESECAM(H)/AGC_CTL	OUT	MESECAM: H/AGC CONTROL INPUT
49	I2C_DATA	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR THE VIDEO/AUDIO IC
50	I2C_CLK	OUT	SERIAL DATA TRANSFER CLOCK FOR THE VIDEO/AUDIO IC
51	DIG6	OUT	LED DRIVE
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	JSA	IN	INPUT FOR THE JOG SHUTTLE
57	JSB	IN	INPUT FOR THE JOG SHUTTLE
58	REC_SAFETY	IN	REC SAFETY SWITCH DETECT (SW ON:L)
59	SW1	OUT	TUNER SYSTEM MODE:H
60	SW2	OUT	TUNER SYSTEM MODE:L
61	DIG7	OUT	LED DRIVE
62	FWE	OUT	FLASH WRITE ENABLE
63	NMI(L)	-	CONNECT TO GND
64	X2	-	TIMER CLOCK (32.768KHz)
65	X1	-	TIMER CLOCK (32.768KHz)
66	RES	-	RESET TERMINAL (RESET ON:L)
67	OSC1(IN)	-	MAIN SYSTEM CLOCK(10MHz)
68	VSS	-	GND
69	OSC2(OUT)	-	MAIN SYSTEM CLOCK(10MHz)
70	VCC/VCL	-	SYSTEM POWER
71	MODE	IN	FWE MODE
72	SYNC DET(H)	IN	DETECTION OF VIDEO SYNC SIGNAL(DETECTED: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	SECAM(H)	OUT	SECAM MODE:H
78	P.ON_PULSE	OUT	P.ON_PULSE(H)
79	PAL PB(H)	OUT	PAL FM(PB ON:H)
80	V.P.CTL	OUT	V.PULSE CONTROL, V COMPENSATION DURING SPECIAL PLAYBACK
81	VHS(H)	OUT	VHS MODE(H)
82	VCC	-	SYSTEM POWER
83	SLOW_P	OUT	MEMORY TIMING CONTROL IN THE SLOW MODE
84	VSS	-	GND
85	SP_SHORT(H)/FLY.ON(H)	OUT	MODE SELECT/FLYING ERASE ON:H
86	LP_SHORT(H)/FLY.REC(H)	OUT	MODE SELECT/FLY REC START:H
87	SEP(H)	OUT	SEP PB:H
88	H.REC_ST(H)	OUT	HIFI AUDIO SOUND RECORDING START
89	TRICK(H)	OUT	SPECIAL PLAYBACK:H
90	N.REC_ST(H)	OUT	NORMAL AUDIO SOUND RECORDING START
91	Da	OUT	LED DRIVE
92	Db	OUT	LED DRIVE
93	Dc	OUT	LED DRIVE
94	Dd	OUT	LED DRIVE
95	De	OUT	LED DRIVE
96	Df	OUT	LED DRIVE
97	Dg	OUT	LED DRIVE
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	P.MUTE(L)	OUT	PICTURE MUTE CONTROL(MUTE:L)
104	FULL_E_ON(H)	OUT	FULL ERASE ON:H
105	N.REC(H)	OUT	NORMAL AUDIO REC MODE CONTROL SIGNAL (REC:H)
106	ET_REC(H)	OUT	ET REC MODE:H
107	HI_S_FF_REW	OUT	HIGH SPEED FF/REW CONTROL
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

4.27 SYSTEM CONTROL BLOCK DIAGRAM

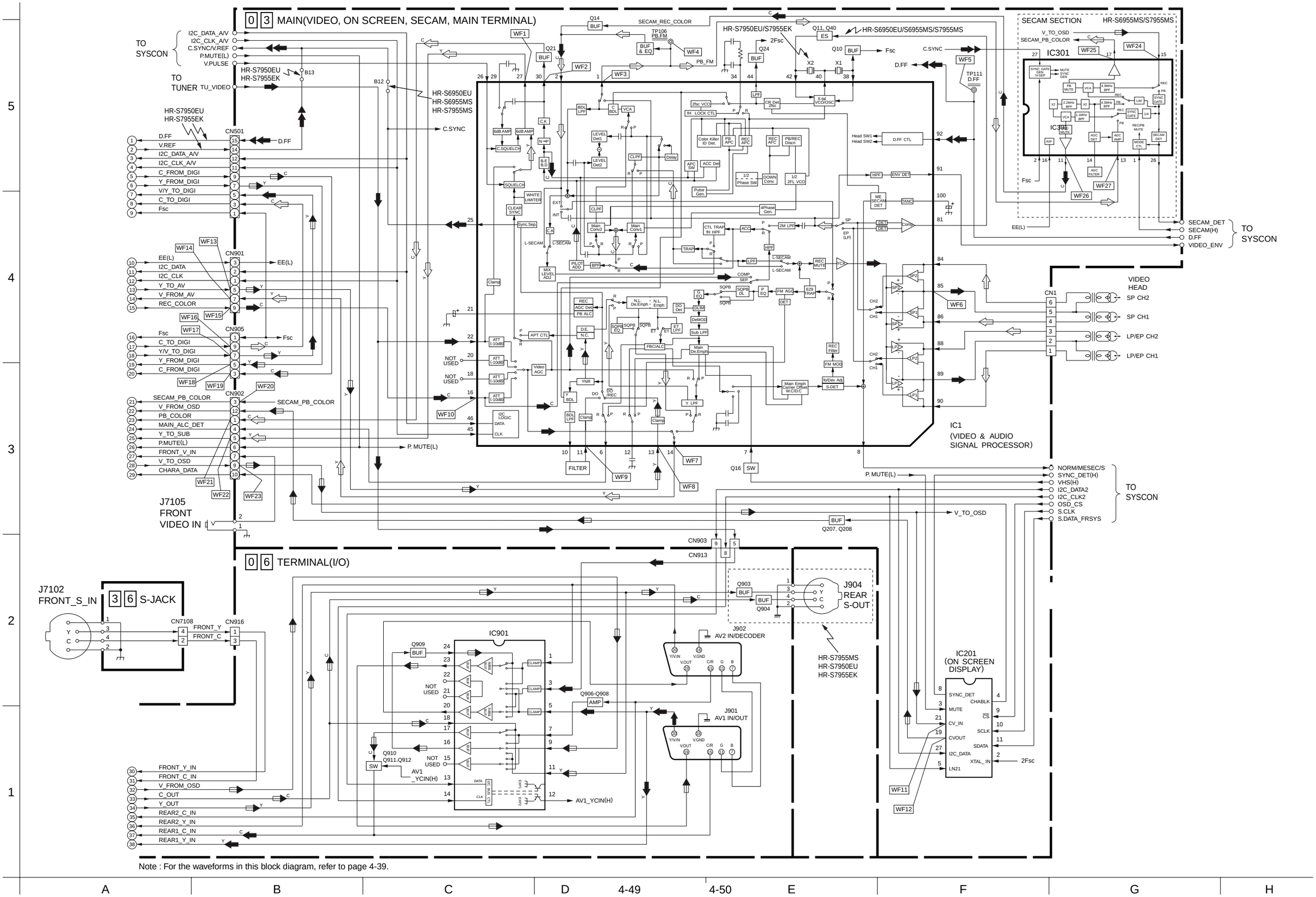


Note : For the waveforms in this block diagram, refer to page 4-39.

4.28 VIDEO BLOCK DIAGRAM

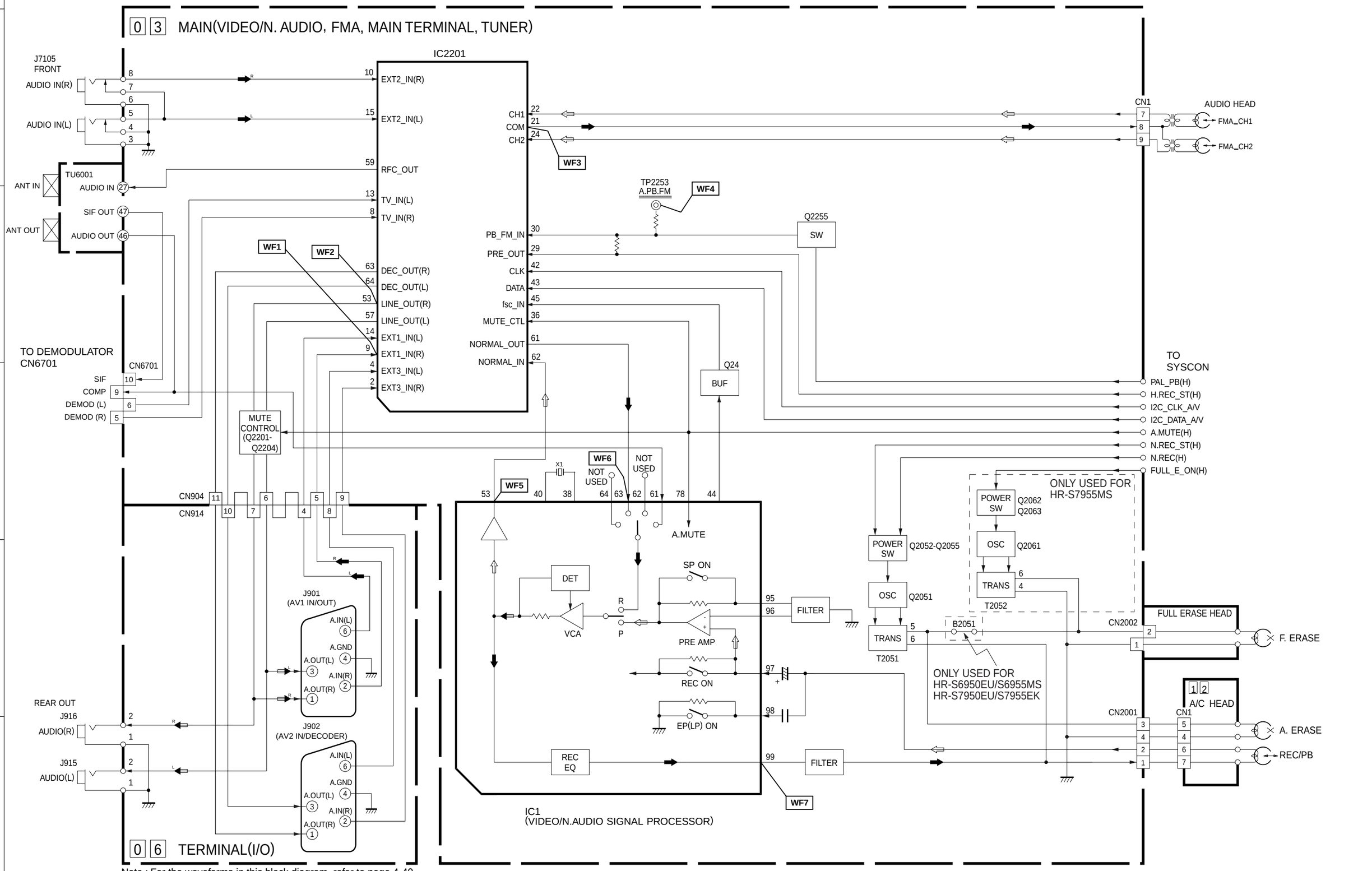


Note : For the waveforms in this block diagram, refer to page 4-39.



Note : For the waveforms in this block diagram, refer to page 4-39.

4.29 AUDIO BLOCK DIAGRAM



Note : For the waveforms in this block diagram, refer to page 4-40.

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