


SECTION 4 CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions

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

1. Units of components on the schematic diagram

Unless otherwise specified.

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

Chip resistors are 1/16 W.

K or k: k Ω (1000 Ω), M: M Ω (1000k Ω)

2) All capacitance values are in μ F, (P: PF).

3) All inductance values are in μ H, (m: mH).

4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

AUX : Active at high

AUX or AUX(L) : Active at low

3. Interpreting Connector indications



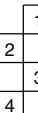
Removable connector



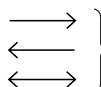
Wire soldered directly on board



Non-removable Board connector



Board to Board



Connected pattern on board
The arrows indicate signal path

4. Voltage measurement

1) Video circuits

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

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

— : Unmeasurable or unnecessary to measure

2) Audio circuits

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

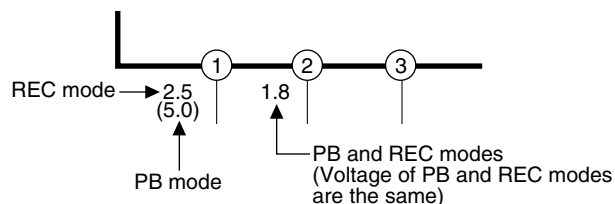
PB : REC then playback it

3) Movie Camera circuits

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

4) Indication on schematic diagram

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



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

5. Waveform measurement

1) Video circuits

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

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

2) Audio circuits

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

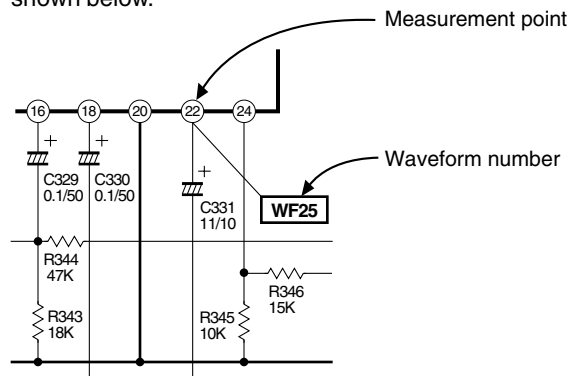
PB : REC then playback it

3) Movie Camera circuits

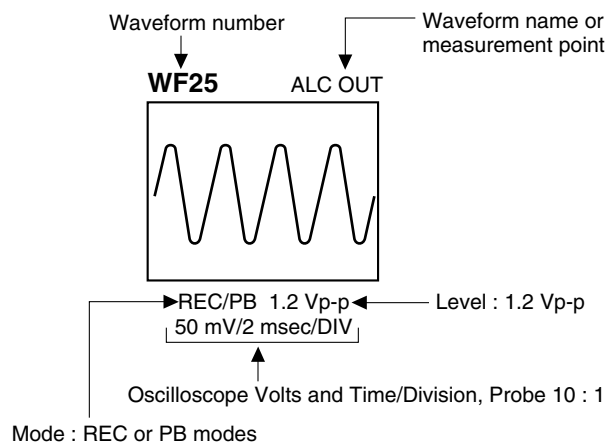
Measured using a correctly illuminated gray scale or colour bar test charts in the E-E mode

4) Indication on schematic diagram

Waveform indications on the schematic diagram are as shown below.

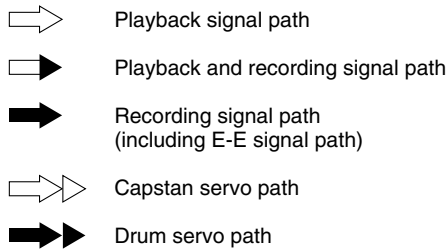


5) Waveform indications

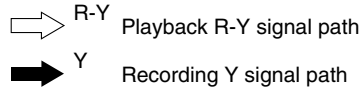


6. Signal path Symbols

The arrows indicate the signal path as follows.



(Example)



7. Indication of the parts for adjustments

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



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

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



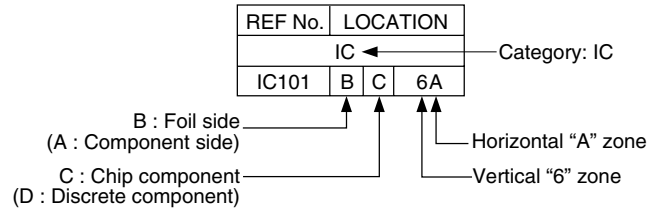
CIRCUIT BOARD NOTES

1. Foil and Component sides

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

2. Parts location guides

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

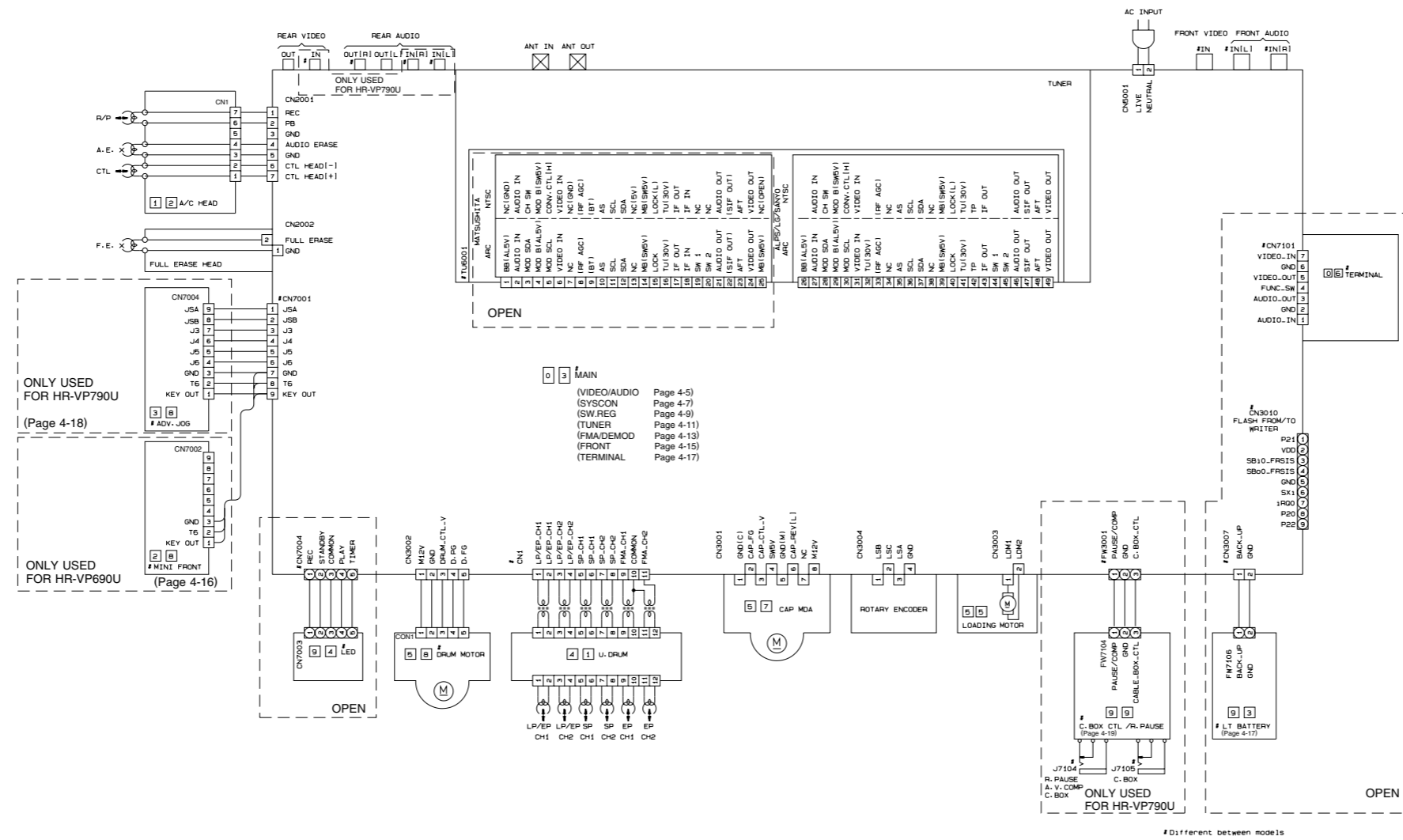


Note:

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

4.1 BOARD INTERCONNECTIONS

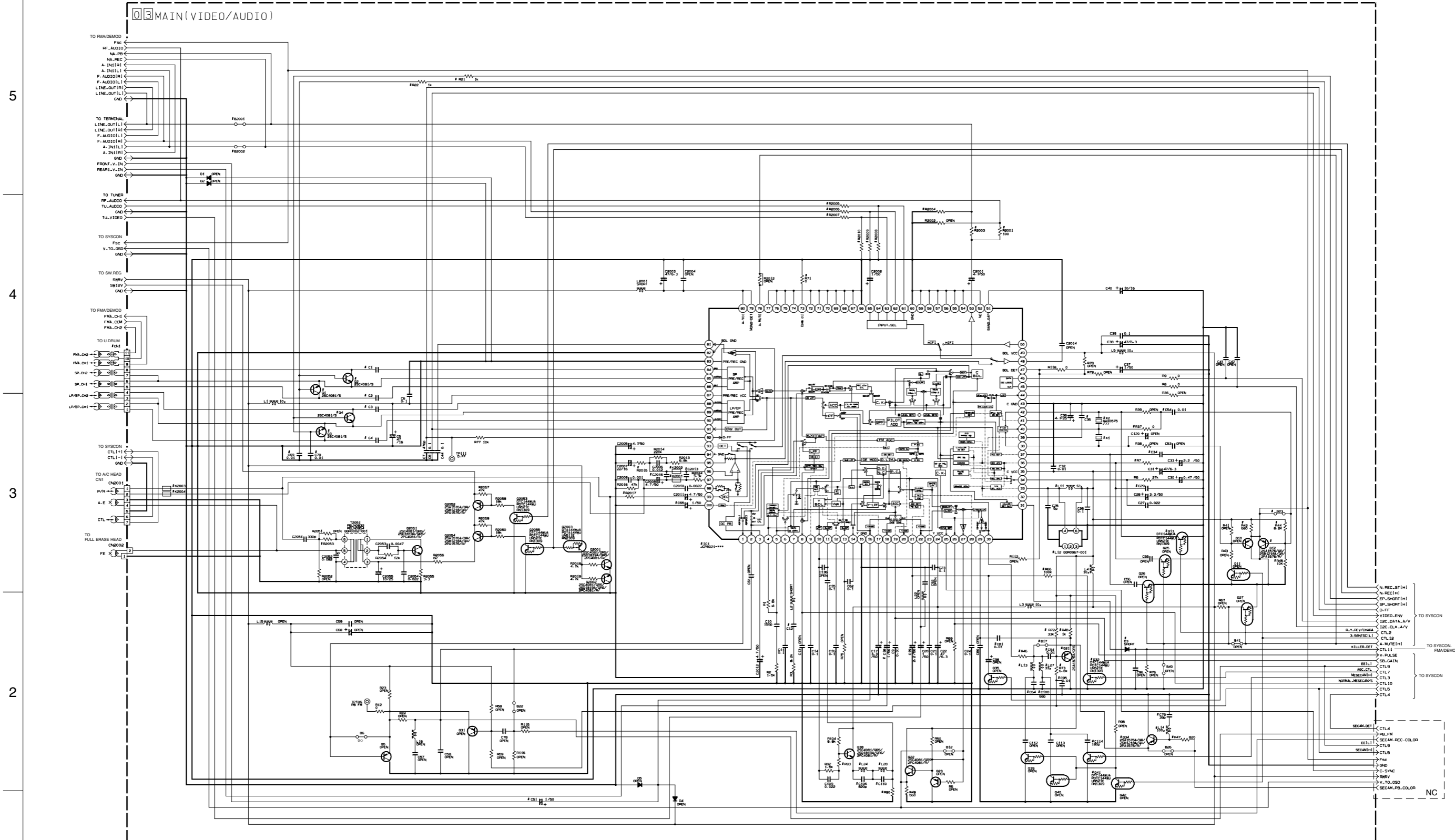
5
4
3
2
1



9 9	C. BOX CTL./R. PAUSE
9 4	LED
9 3	LT. BATTERY
5 8	DRUM MOTOR
5 7	CAP MDA
4 1	U-DRUM
3 8	ADV. JOG
2 8	MINI FRONT
1 2	A/C HEAD
0 6	TERMINAL
0 3	MAIN
NO	NAME

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 1

	IC1	X1	D3	Q1-Q4	Q12	Q32	Q41	R7	R21-R22	R37-R42	R44-R45	R46	R66	R90	R93	C12	C29	C34	C35	C54	C64	C65	C69-C70	C81	C106	C108	C110	C114	L13	L24	L27	L28	B17	B23	Q21-Q34	R47-R48	R72-R73	C79-C94	C95-L14	
NTSC	PCE1/501	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
OTHERS	NVD-2	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PAL M	NVD-2	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
H1F1	MVD-2	QAX0578	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
MVD-2	QAX0580	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X
MONO	MVD-2	QAX0580	X	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X
H1F1	MVD-2	QAX0578/79	X	O	X	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X
MONO	MVD-2	QAX0578/79	X	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X
H1F1	MVD-2	QAX0578/79	X	O	X	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X
MONO	MVD-2	QAX0578/79	X	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X

#DIFFERENCE TABLE 2

3-5BNTSC	X2
YES	O
NO	X

#DIFFERENCE TABLE 3

INPUT	C18	C51
FRONT	X	O
REAR	O	X
FRONT/REAR	O	O

#DIFFERENCE TABLE 4

HEAD TYPE	C1-C2	C3-C4	R71	CN1
4-HEAD H1F1	NTSC/PAL-M	1	1	11 PIN1(1-11)
	PAL/ARC/PAL-N	0-01	0-01	11 PIN1(1-11)
4-HEAD MONO	NTSC/PAL-M	1	1	8 PIN1(1-8)
	PAL/ARC/PAL-N	0-1	0-1	8 PIN1(1-8)
2-HEAD	PAL/ARC/PAL-N	0-1	X	4 PIN1(8)

#DIFFERENCE TABLE 5

CE	L11	L12
YES	X	O
NO	O	X

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

+ ELECTROLYTIC
 □ CERAMIC
 ○ MYLAR
 ▽ NON-POLAR

#DIFFERENCE TABLE 6

DESTINATION	INPUT	FRONT IN		FMA → A11(H1F1)		REAR IN/REAR IN(MONO)	
		R2006	R2009	R2002	R2007	R2010	R2013
H1F1	NTSC/PAL M/PAL N	X	X	X	X	X	X
	ARC	X	X	X	X	X	X
MONO	FRONT/REAR	47k	6.8k	O	47k	6.8k	X
	NTSC/PAL M/PAL N	FRONT	47k	6.8k	X	X	X
	REAR	X	X	O	47k	6.8k	X
PAL/ARC	FRONT/REAR	47k	5.6k	O	47k	5.6k	O
	REAR	X	X	O	47k	5.6k	O

#DIFFERENCE TABLE 7

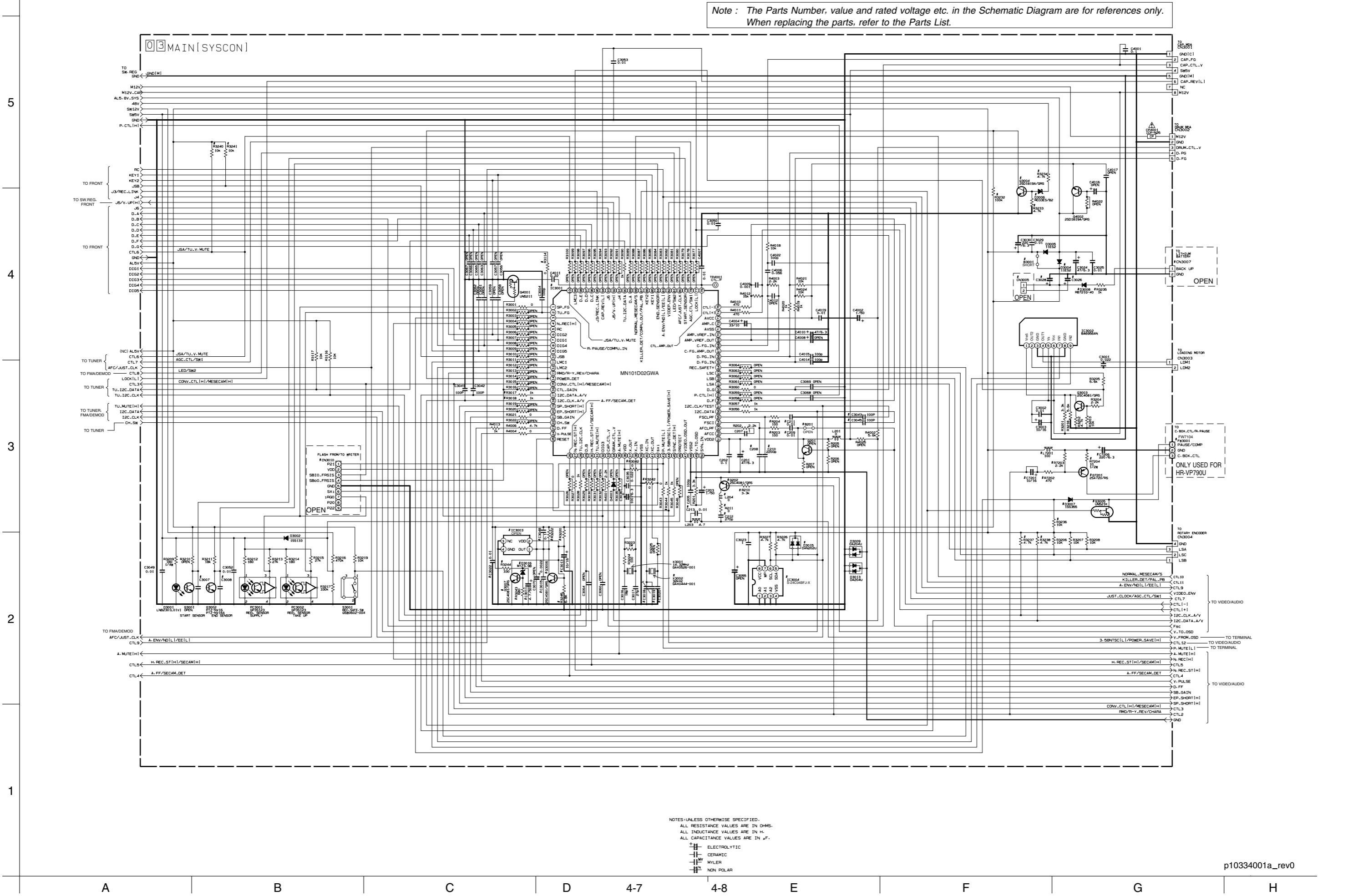
DESTINATION	INPUT	FRONT IN		FMA → A11(H1F1)		REAR IN/REAR IN(MONO)	
		R2006	R2009	R2002	R2007	R2010	R2013
H1F1	NTSC/PAL M/PAL N	X	X	X	X	X	X
	ARC	X	X	X	X	X	X
MONO	FRONT/REAR	47k	6.8k	O	47k	6.8k	X
	NTSC/PAL M/PAL N	FRONT	47k	6.8k	X	X	X
	REAR	X	X	O	47k	6.8k	X
PAL/ARC	FRONT/REAR	47k	5.6k	O	47k	5.6k	O
	REAR	X	X	O	47k	5.6k	O

#DIFFERENCE TABLE 8

DESTINATION	INPUT	FRONT IN		FMA → A11(H1F1)		REAR IN/REAR IN(MONO)	
		R2006	R2009	R2002	R2007	R2010	R2013
H1F1	NTSC/PAL M	X	X	X	X	X	X
	PAL/ARC	X	X	X	X	X	X
MONO	FRONT/REAR	47k	6.8k	O	47k	6.8k	X
	NTSC/PAL M	O	O	680	2.7k	33k	47k
	PAL N	O	O	680	2.7k	33k	47k
PAL/ARC	FRONT/REAR	47k	5.6k	O	47k	5.6k	O
	REAR	X	X	O	47k	5.6k	O

4.3 MAIN (SYSCON) SCHEMATIC DIAGRAM

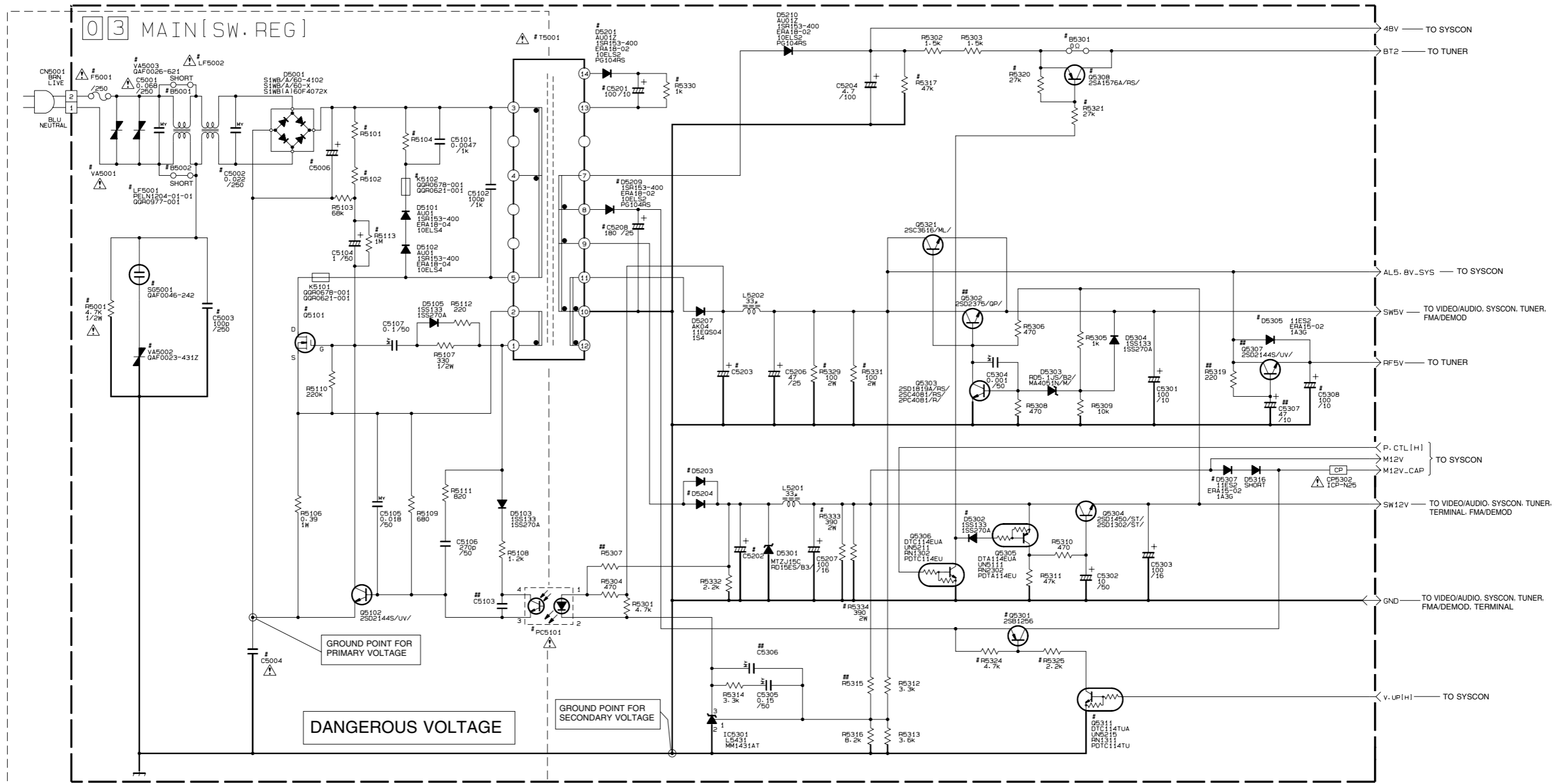
Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



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

4.4 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

	Q5101	R5001	C5004	C5006	PC5101	F5001
US	2SK2043 2SK2325	YES	0.0047 /250	47 /200	PS2501-1 ON3131/RS/ PC817X	1.25A
PH /7B	2SK3255	NO	0.0022 /250	68 /400	PS2561L1-1/ML/ PC123F2 ON3171R/	2A
OTHER	2SK2532 2SK2125	NO	0.0022 /250	68 /400	PS2561L1-1/ML/ PC123F2 ON3171R/	2A

#DIFFERENCE TABLE 2

CE	Q5308 R5317	R5320 R5321	B5301	D5302	R5101 R5102	R5104	C5002	LF5001	LF5002	B5002 B5001
-YES-	YES	NO	YES	330k	150k 2W	YES	YES	YES	NO	NO
-NO-	NO	YES	SHORT	220k	68k 2W	NO	NO	NO	YES	YES

#DIFFERENCE TABLE B

	C5202	C5203
US	1000 /16	1000 /10
OTHER	680 /16	680 /10

#DIFFERENCE TABLE 3

	SG5001	VA5001	VA5002	R5113	VA5003
US	SHORT	QAF0023-4312 QAF0024-4312 QAF0039-4312	NO	NO	NO
OTHER	NO	NO	NO	NO	NO
US (PHILIPS)	YES	QAF0023-4312	YES	YES	NO
PH AUTO VOLTAGE	NO	NO	NO	NO	YES

#DIFFERENCE TABLE 4

	RF5V	D5305
-YES-	YES	
-NO-	NO	

#DIFFERENCE TABLE 5

	ROOM ANT	C5003	K5102
PHILIPS/7B	YES	YES	
PHILIPS/75	YES	SHORT	
OTHER	NO	SHORT	

#DIFFERENCE TABLE 6

	RF5V -YES- -YES- -NO-	R5329	R5331	R5333	R5334
AUTO VOLTAGE	NO	NO	YES	YES	
OTHER	NO	NO	NO	NO	

#DIFFERENCE TABLE 7

	HIGH SPEED FF/REW	T5001	Q5301 Q5311	R5324 R5325	C5208 C5209	D5201 R5330 C5201	D5307	D5203 D5204
-YES-	Q050030-002 Q050031-002 Q050036-001	YES	YES	YES	YES	YES	YES	AU012 10EL52
-NO-	Q050083-001 Q050084-001 Q050085-001	NO	NO	NO	NO	SHORT	15R153-400 ERA18-02 10EL52 PG104RS	

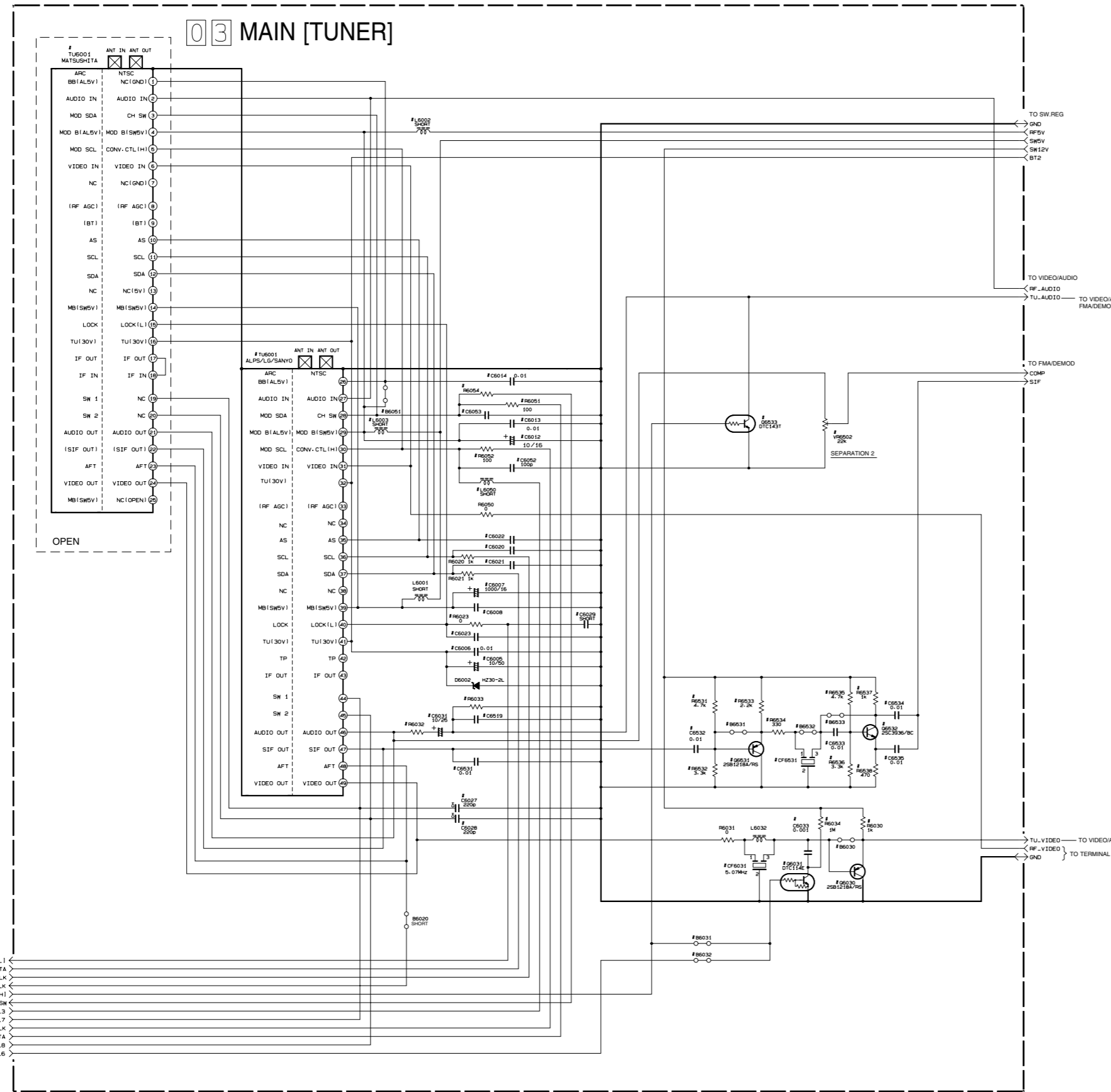
NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
 CERAMIC
 MYLER
 NON POLAR

4.5 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.

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4
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1



O : Used
X : Not used

DIFFERENCE TABLE (US-PAL-M/N)

		H1F1	MONO
TU6001	ALPS	GAU0207	GAU0207
	SANYO	GAU0206	GAU0206
VIDEO BUFFER	R6030-R6030	O	O
	R6030	X	X
VIDEO MUTE	R6031-R6034	X	X
	C6033-B6031	X	X
LOCK	R6023-C6023	X	X
	C6029	O	O
MONO	R6032	X	10k
	R6033	X	10k
	C6019	X	0.012
	C6031	X	O
H1F1	VR602	O	X
MOD B1SW5V1	L6003	O	O
CONV CTL	L6050	O	O
CONV SW	R6054	O	O
	C6005-C6008		
	C6012-C6014		
	C6020-C6022		
	C6052-C6053		
	06501-06502		
	06531-06533	X	X
	CF6031-CF6033		
	R6031-R6036		
	C6031-C6035		
PAL	R6032-R6051	X	X
	L6002		
	R6051-R6052		
	C6027-C6028		

DIFFERENCE TABLE (EUROPE-ASIA - PAL/MS)

TUNER UNIT	TU6001	EU/EK		FRANCE MS		ASIA 3SYSTEM		ASIA 4SYSTEM	
		MITSUBISHI	ALPS	ALPS	LG	MITSUBISHI	ALPS	MITSUBISHI	MITSUBISHI
		GAU0208	GAU0209	GAU0210	GAU0211	GAU0208	GAU0209	GAU0210	GAU0212
VIDEO BUFFER	R6030-R6030	O	O	O	O	O	O	O	O
	R6030	X	X	X	X	X	X	X	X
VIDEO MUTE	R6031-R6034	O	O	O	O	X	X	X	X
	C6033	0a	0a	0a	0a	X	X	X	X
	R6031	X	X	X	X	X	X	X	X
	R6032	O	O	O	O	X	X	X	X
AUDIO MUTE	R6033	O	O	O	O	X	X	X	X
TU 12C	C6020	X	X	X	X	X	X	X	X
	C6021	X	X	X	X	X	X	X	X
	C6022	X	X	X	X	X	X	X	X
LOCK	R6023-C6023	X	X	X	X	X	X	X	X
	C6029	O	O	O	O	O	O	O	O
	R6032	3-3k	3-3k	3-9k	3-9k	3-3k	3-3k	3-3k	0a
MONO	R6033	1-1k	1-1k	1-1k	1-1k	1-1k	1-1k	1-1k	1-1k
	C6031	O	O	O	O	O	O	O	O
	C6019	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047
US MPX	VR602	X	X	X	X	X	X	X	X
	L6002-R6051	O	O	O	O	O	O	O	O
AL5V	C6012	X	X	X	X	X	X	X	X
	C6013	X	X	X	X	X	X	X	X
	C6014	O	O	O	O	O	O	O	O
	R6051-R6052	O	O	X	X	O	O	O	O
MOD SDA/SCL	R6054-L6050	X	X	X	X	X	X	X	X
	C6052-C6053	X	X	X	X	X	X	X	X
SW5V	L6003	X	X	X	X	X	X	X	X
	C6007	X	X	X	X	X	X	X	X
	C6008	X	X	X	X	X	X	X	X
TU130V1	C6005	X	X	X	X	X	X	X	X
	C6006	X	X	X	X	X	X	X	X
SIF OUT	C6031-C6036	X	X	X	X	X	X	X	X
	R6031-R6036								
	06531-06533								
	CF6031								
CENELEC S2	C6027	X	X	O	X	X	X	X	X
	C6028	X	X	X	X	X	X	X	X

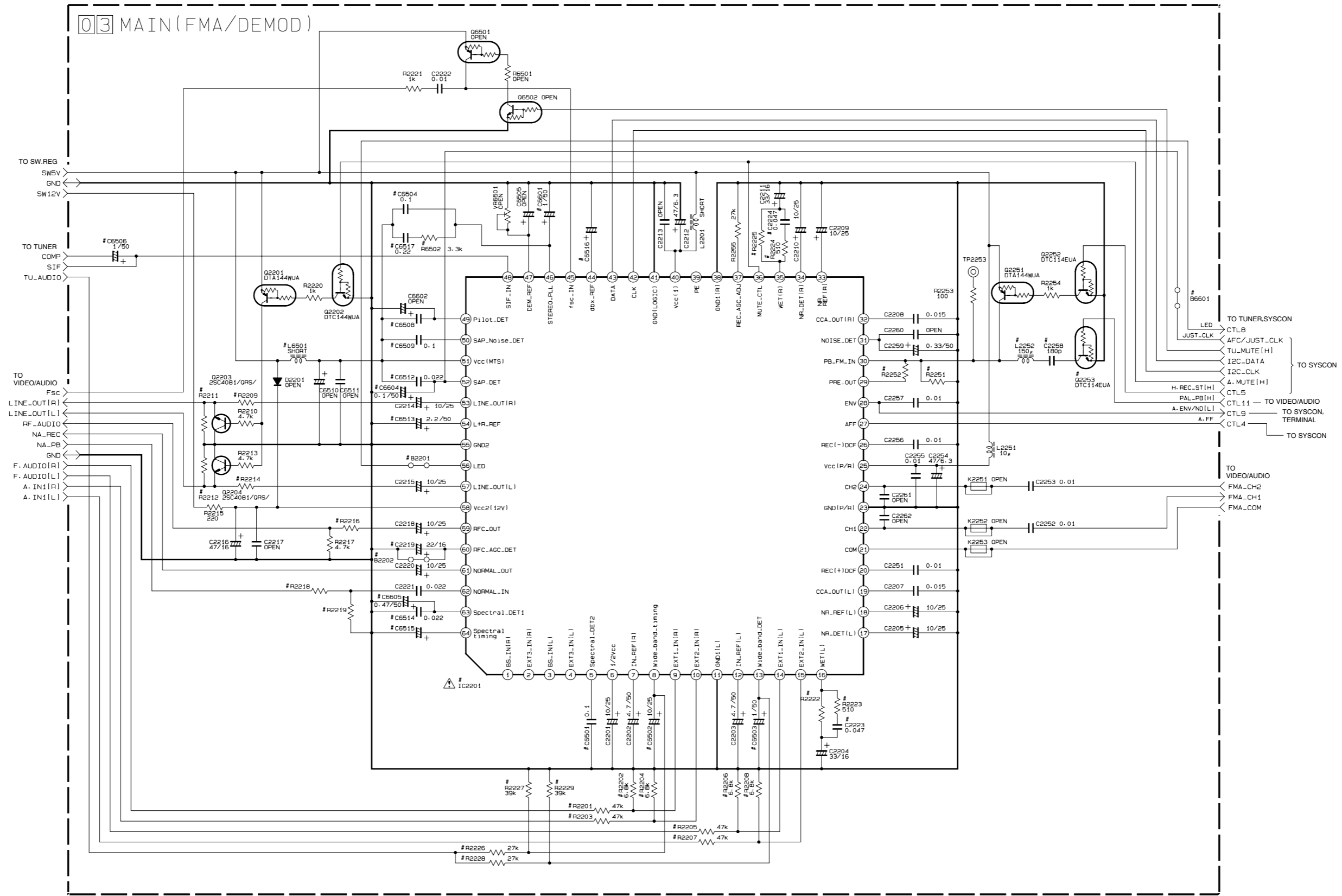
CTL3	CONV-CTL(HI/MESECAM)H
CTL6	J1(USA)/TU.V-MUTE(H)
CTL7	AGC-CTL/SW1
CTL8	LED/SW2

NOTES UNLESS OTHERWISE SPECIFIED:
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ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

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

4.6 MAIN (FMA/DEM0D) 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 (FMA)

INPUT	FRONT	REAR
SYMBOL	R2201 R2202 R2203 R2204 R2205 R2206	R2203 R2204 R2207 R2208
YES	○	○
NO	×	×

#DIFFERENCE TABLE (FMA/DEM0D)

SYMBOL	R6502-C6504	B6501-C6504	C6508	C6515	C6516	C6501	C6506	IC2201	R2226-R2229	R2222	R2201	R2216	R2218	R2219	R2209	R2211	R2212	R2251	R2252	Q2251-Q2254	C2253	C2255	C2256
US/PAL-M/PAL-N	○	×	0.022	3.3/50	4.7/50	○	○	AN3663FBP	×	SHORT	○	1k	3.9k	1k	100	3.3k	2.2k	1.5k	○	○	○	○	○
JPN	×	○	1	1/50	10/25	○	○	AN3672FBP	×	SHORT	○	1k	3.9k	1k	100	3.3k	2.2k	1.5k	○	○	○	○	○
ARC	×	×	×	×	10/25	SHORT	×	AN3651FBP	○	4.7k	×	1.2k	3.3k	1.2k	680	2.7k	4.7k	220	○	○	○	○	○

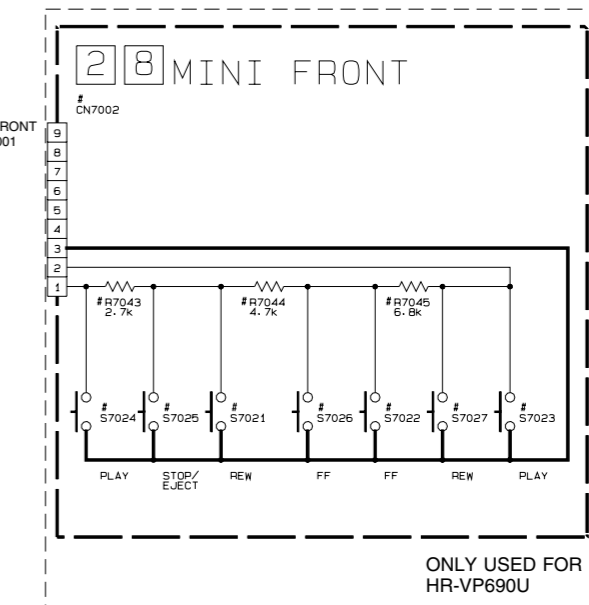
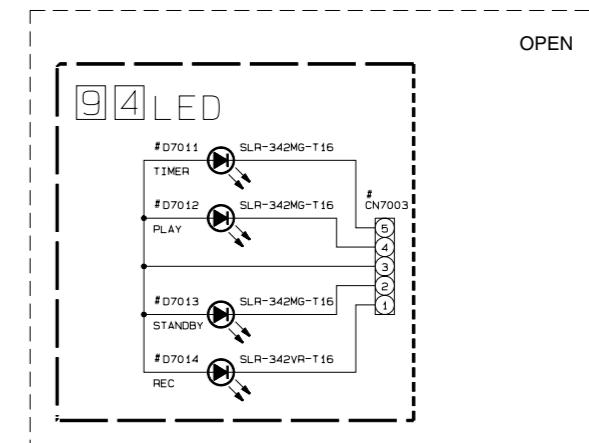
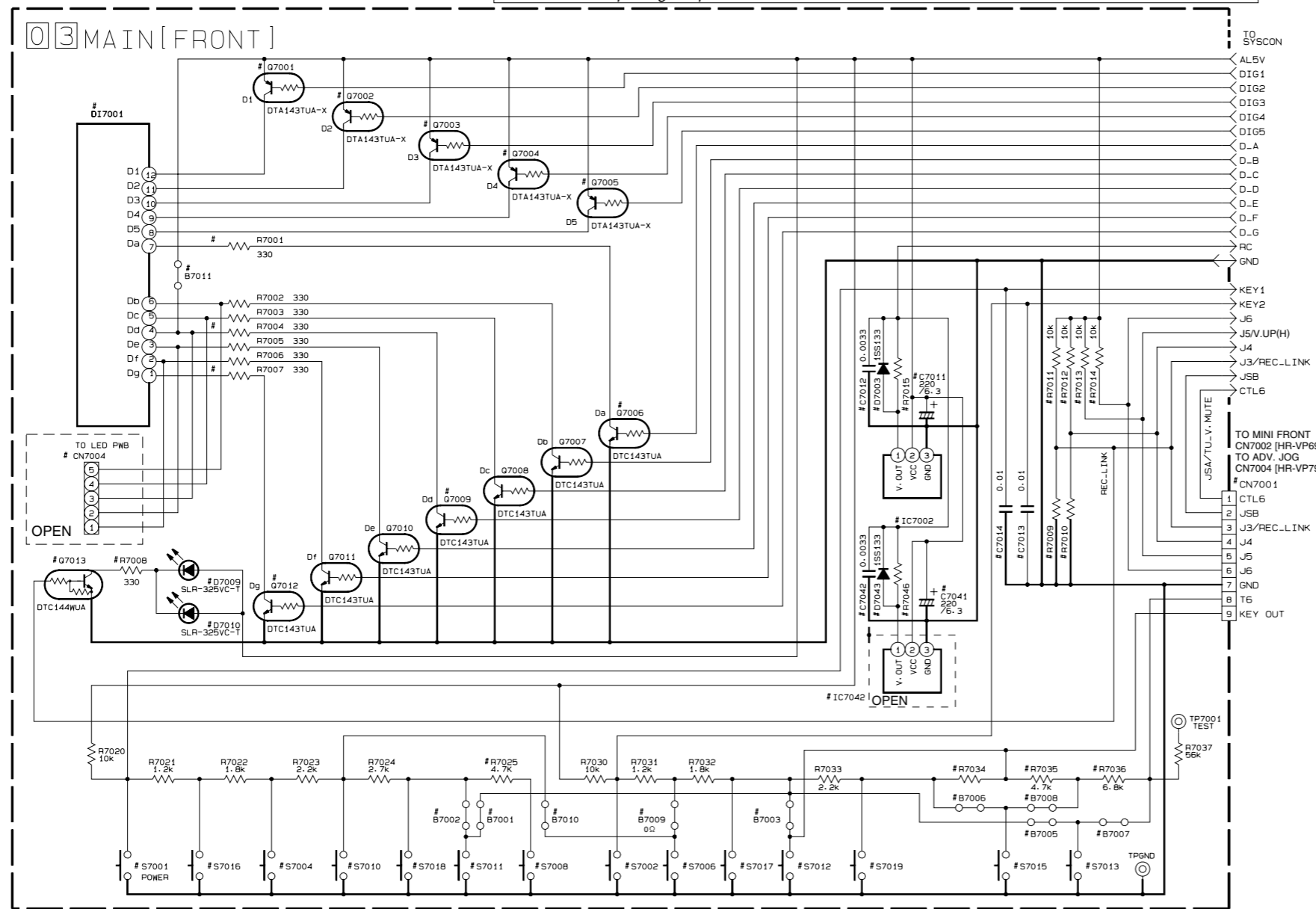
○ : Used
× : Not used

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

4.7 MAIN (FRONT) AND MINI FRONT SCHEMATIC DIAGRAMS

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



##DIFFERENCE TABLE 1

BRAND	TOOL	WORKING NUMBER	S7001	S7002	S7004	S7006	S7008	S7010	S7011	S7012	S7013	S7014	S7015	S7016	S7017	S7018	S7019	S7021	S7022	S7023	S7024	S7025	S7026	S7027	S7028	S7029	S7030	S7031	S7032	S7033	S7034	S7035	S7036	S7037	B7001	B7002	B7003	B7004	B7005	B7006	B7007	B7008	B7009	B7010			
JVC	400EA	D15 U/UC. D15P U/UC. D1EN	POWER	REC LINK	CH -	CH +	PLAY	E.PROG.	REC	---	PAUSE	---	STOP/EJECT	DISPLAY	---	---	---	Adv	Adv	7seg	O	2.7kΩ	O	2.7kΩ	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	400E	CO U/UC. COP UM. C1 U/UM/M/EN DO U/UC. D1 M/UM. D1M U/UC A1 A/EM/EA/EE/EA/EA1 A11 A. A2 EM C1 A/S/EA/EE/EA/S	---	---	REW/CH-	FF/CH+	---	PLAY	---	---	---	---	---	POWER	STOP/EJECT	REC	PAUSE/CH	---	---	---	X	7seg	X	2.7kΩ	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PHILIPS	01A	D1 /7B/50. C1 /50 A1 (VR120/55). D1 (VR602/55)	---	---	REW/CH-	FF/CH+	STOP/EJECT	---	---	---	---	---	---	POWER	REC	REW/CH-	PLAY	---	---	---	X	7seg	O	2.7kΩ	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	01B	A1 /55. C1 /50/55/61. D1 /55	POWER	PAUSE	MENU	OK	REC	CH -	CH +	---	---	---	---	---	---	---	---	---	---	O	X	7seg	O	0Ω	X	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SEARS	360H	---	POWER	PAUSE	REW/CH-	FF/CH+	STOP/EJECT	PLAY	---	---	---	---	---	---	REC	PAUSE/CH	---	---	---	X	7seg	X	2.7kΩ	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
AUDINAC	360H	---	POWER	REC LINK	REW/CH-	FF/CH+	STOP/EJECT	PLAY	---	---	---	---	---	---	REC	PAUSE/CH	---	---	---	X	7seg	X	2.7kΩ	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

O : Used
x : Not used

##DIFFERENCE TABLE 2

BRAND	TOOL	IC7002	D7003 C7011, C7012	R7015	D7043 C7041, C7042	IC7042	R7046
JVC	400H. 400EA. 400E	GP1U2910 PNA4652M00YC PIC-28143LJ	X	0Ω	X	X	X
	360H	X	X	X	X	X	0Ω
PHILIPS	01A	X	X	X	O	X	100k
	01B. 00A	GP1U2900 PNA4652M00YC PIC-28142LJ	O	100k	X	X	X

##DIFFERENCE TABLE 3

DISPLAY TYPE	D17001	Q7001-Q7005 Q7009. Q7012 R7001. R7004 R7007	CN7003 D7011-D7014 CN7004	B7011
12H. 7 SEG AMBER	LT6-Y2K12M-01J	O	X	X
12/24H. 7 SEG GREEN	LT6-Y2K16M-J	O	X	X
4-DIG	X	X	O	O

##DIFFERENCE TABLE 4

JOG/SHUTTLE	R7009-R7014
WITH JOG	O
WITH ADV JOG	X
OTHERS	X

##DIFFERENCE TABLE 5

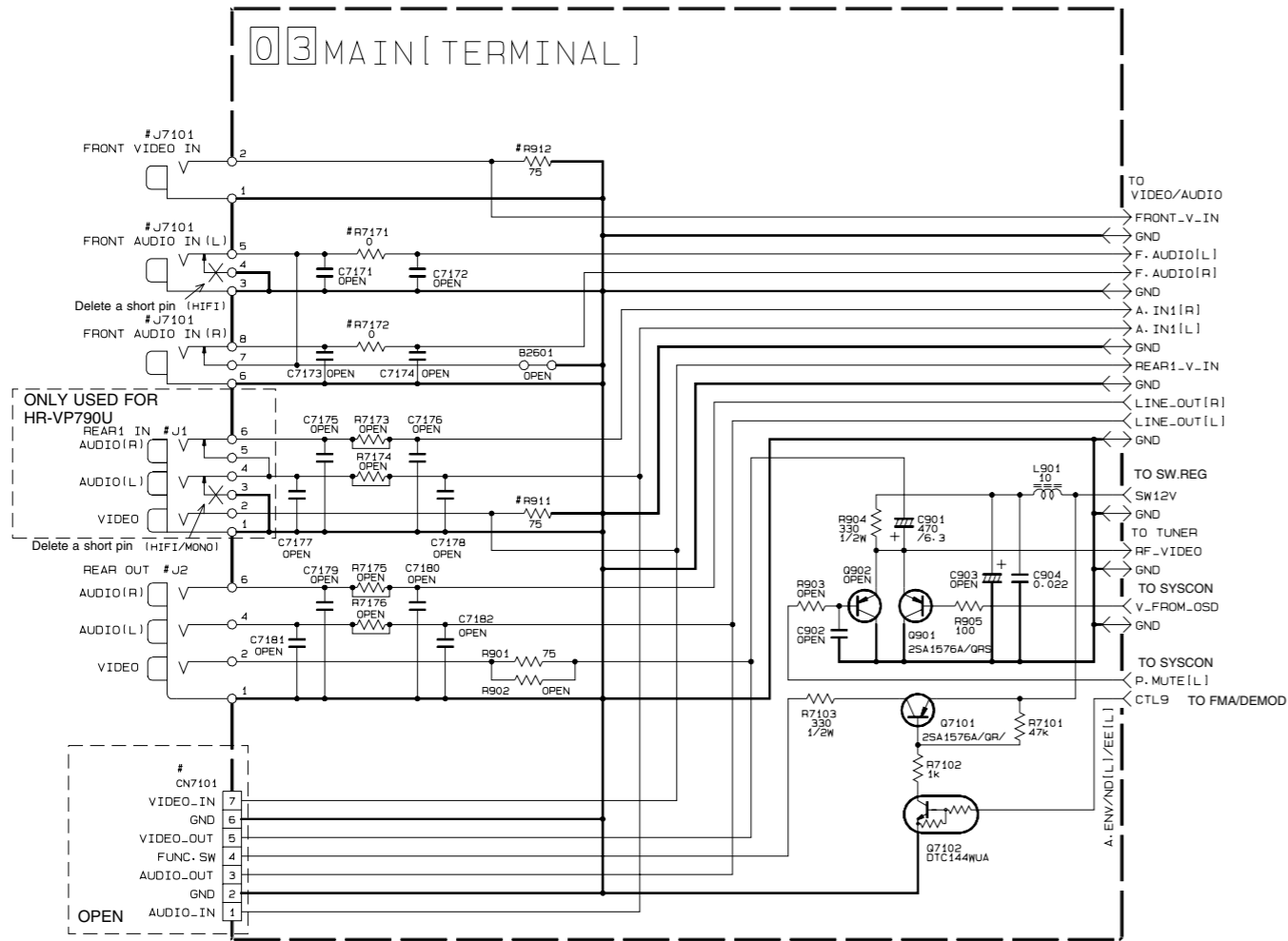
REC LINK	Q7013 R7008	D7009	D7010
YES	O	RED	X
NO	X	X	X

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

ELECTROLYTIC
 CERAMIC
 MYLER
 NON POLAR

4.8 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.



#DIFFERENCE TABLE 1

OUTPUT	J2
H1F1	3P
MONO	2P

#DIFFERENCE TABLE 2

	INPUT	J1	J7101	R911	R912	R7171	R7172	CN7101
H1F1	FRONT	X	3P	X	O	O	O	X
	REAR	3P	X	O	X	X	X	X
MONO	FRONT/REAR	3P	3P	O	O	O	O	X
	FRONT	X	2P	X	O	X	O	X
	REAR	2P	X	O	X	X	X	X
	FRONT/REAR	2P	2P	O	O	X	O	X
	PERI CONNECTOR	X	X	X	X	X	X	O

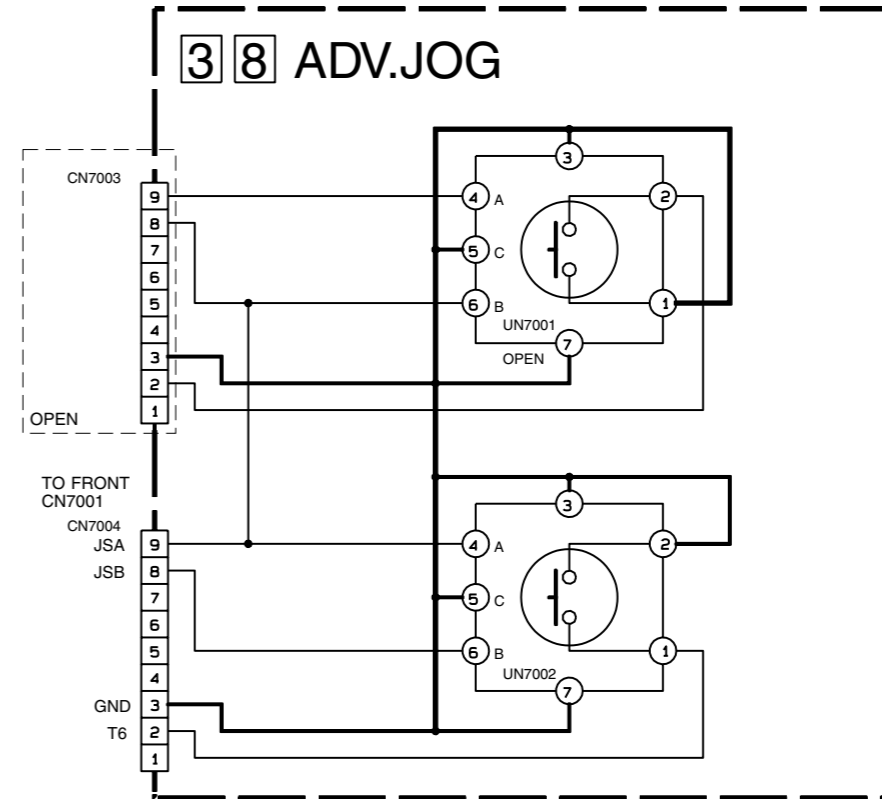
O : Used
X : Not used

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

4.9 ADV. JOG SCHEMATIC DIAGRAM [HR-VP790U]

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.

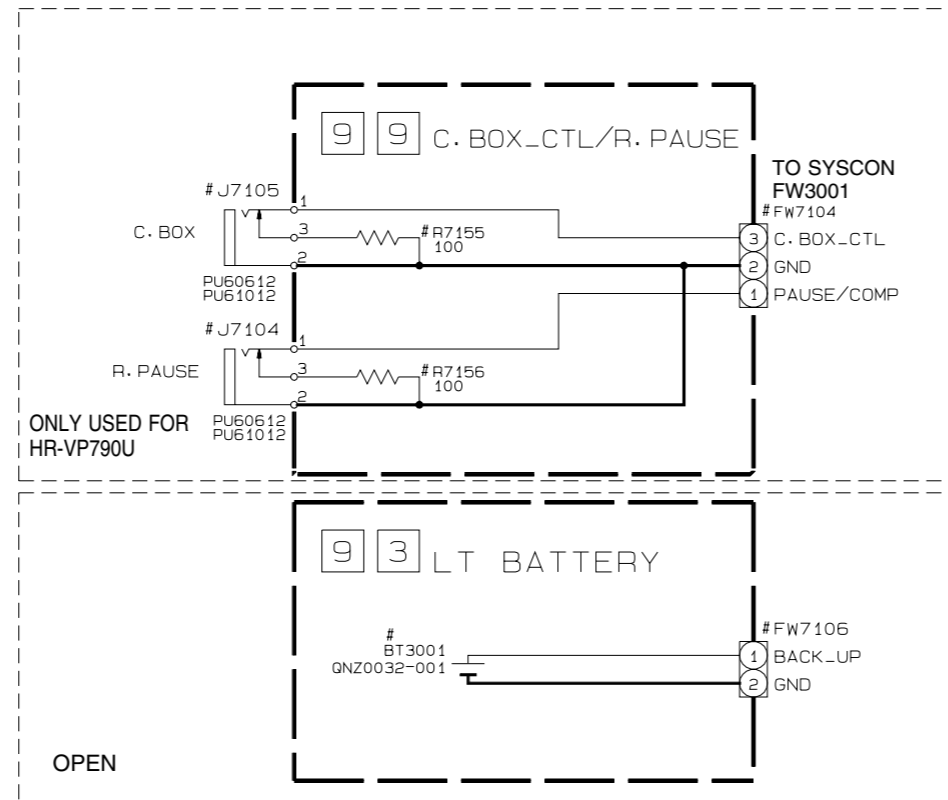


NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

- ELECTROLYTIC
- CERAMIC
- MYLER
- NON POLAR

4.10 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.



○ : Used
 × : Not used

JVC MODELS

			HR-VP793U HR-VP790U	HR-VP59U HR-A57U	HR-VP693U HR-VP690U 30370	HR-VP49U 30260 HR-J3008UM HR-A37U	HR-J6008UM HR-J7008UM HR-J4008UM	HR-J693M HR-J696M HR-J496M	HR-J696EN HR-J496EN	HR-J281MS HR-J287MS HR-J481MS HR-J481MS/S HR-J281MS/EA	HR-J387EM HR-J381EM	HR-J485EA HR-J285EA	HR-J278EU	HR-J485EE HR-J285EE
CABLE BOX CTL	J7105 R7155		○	×	×	×	×	×	×	×	×	×	×	×
R. PAUSE/AV_COMPU	J7104 R7156		○	×	×	×	×	×	×	×	×	×	×	×
	FW7104		○	×	×	×	×	×	×	×	×	×	×	×
LITHIUM BATTERY	BT3001 FW7106		×	×	×	×	○	○	○	○	○	○	×	○

PCEC/PHILIPS MODELS

			VR602/50 VR402/50 VR420/50	VR620/50	VR420/61	VR607/78 VR602/78 VR402/78	VR625/77 VR620/77	VR420/77	VR120/55 VR220/55 VR420/55 VR602/55	VR120/75 VR602/75 VR420/75 VR220/75
CABLE BOX CTL	J7105 R7155		×	×	×	×	×	×	×	×
R. PAUSE/AV_COMPU	J7104 R7156		×	×	×	×	×	×	×	×
	FW7104		×	×	×	×	×	×	×	×
LITHIUM BATTERY	BT3001 FW7106		×	○	○	×	○	×	×	×

AUDINAC MODELS

			AR-626 AR-424
CABLE BOX CTL	J7105 R7155		×
R. PAUSE/AV_COMPU	J7104 R7156		×
	FW7104		×
LITHIUM BATTERY	BT3001 FW7106		○

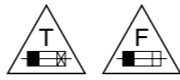
NOTES: UNLESS OTHERWISE SPECIFIED.
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN μF.

- ELECTROLYTIC
- CERAMIC
- MYLER
- NON POLAR

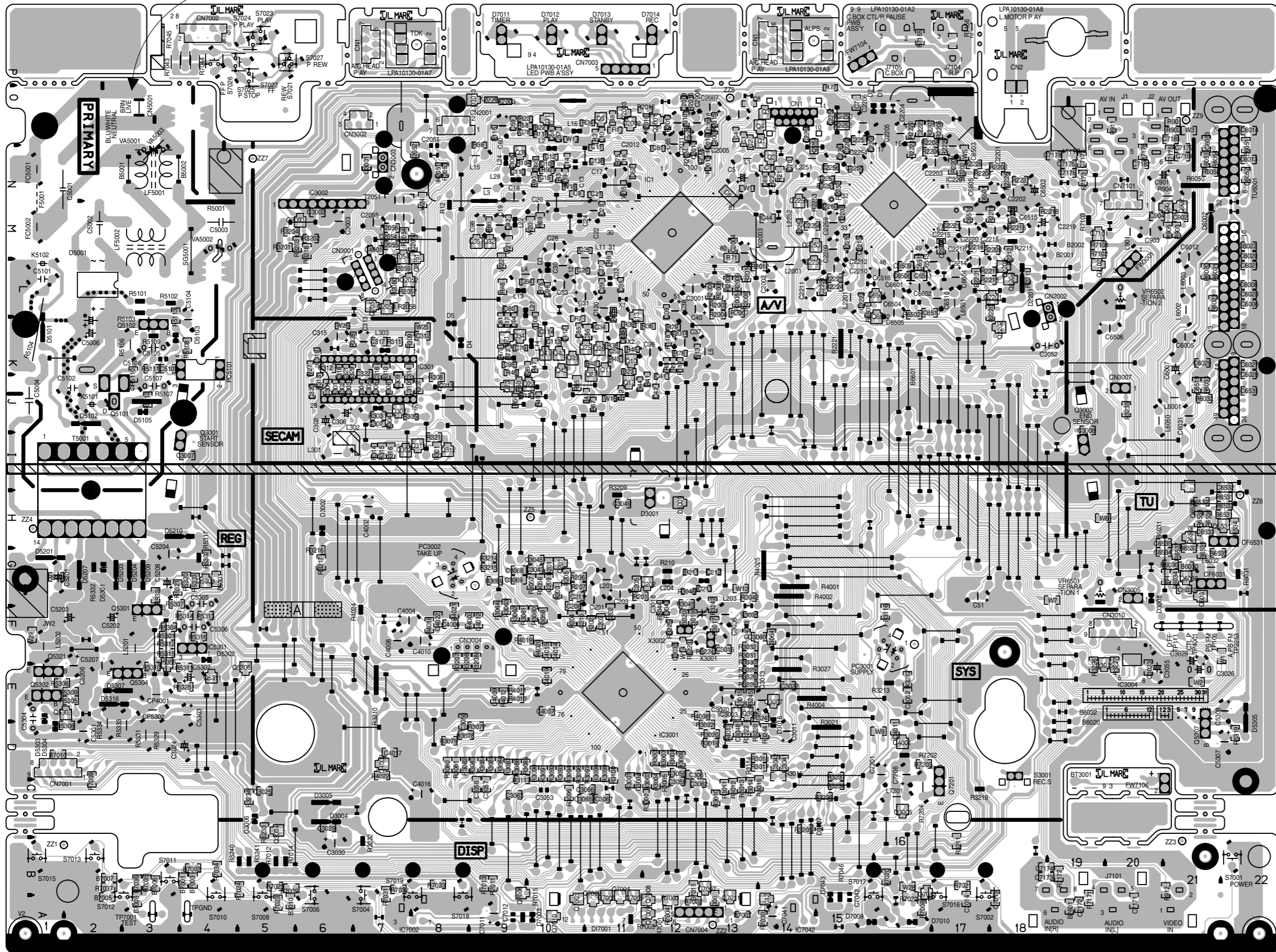
4.11 MAIN CIRCUIT BOARD

<03>MAIN
LPB10130-001C

DANGEROUS VOLTAGE

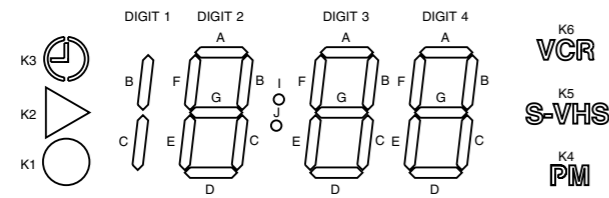


CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).
ATTENTION :
REPLACER PAR DES FUSIBLE DE MEME TYPE.



4.13 FDP GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT

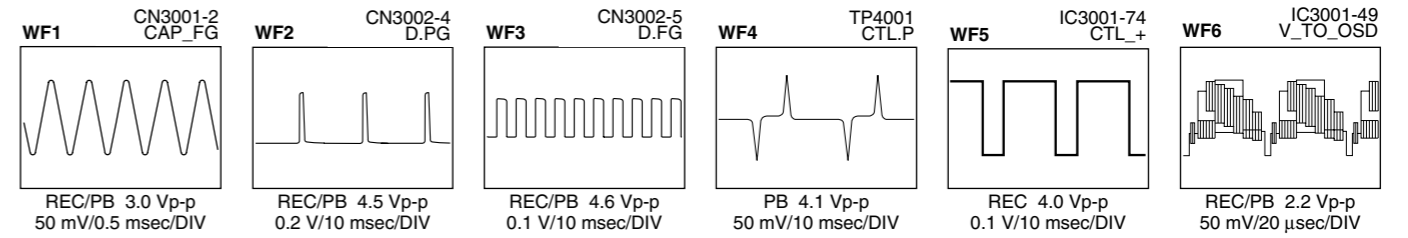


ANODE CONNECTION

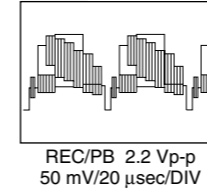
No.	CONNECTION
1	CATHODE 2G, 3G, 4G, I, J
2	CATHODE 2F, 3F, 4F, K6
3	CATHODE 2E, 3E, 4E, K1
4	CATHODE 2D, 3D, 4D, K4
5	CATHODE 1C, 2C, 3C, 4C, K5
6	CATHODE 1B, 2B, 3B, 4B, K2
7	CATHODE 2A, 3A, 4A, K3
8	COMMON ANODE K3, K2, K5, K4, K1, K6, I, J
9	COMMON ANODE DIGIT4
10	COMMON ANODE DIGIT3
11	COMMON ANODE DIGIT2
12	COMMON ANODE DIGIT1

4.14 WAVEFORMS

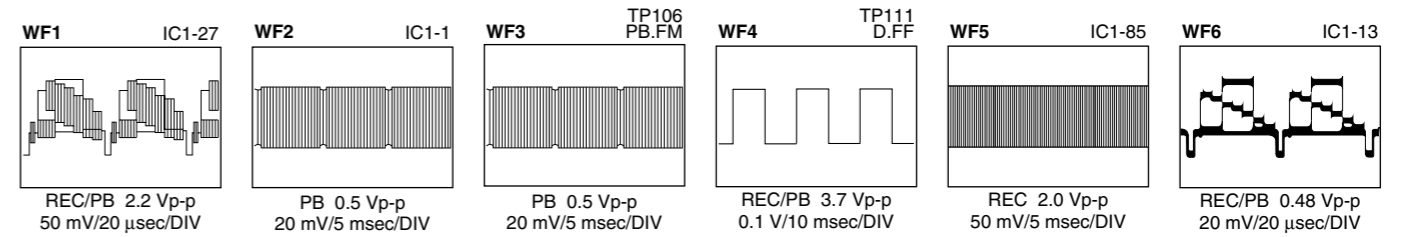
< SYSCON >



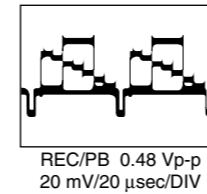
WF7 VIDEO_OSD_OUT (IC3001-47)



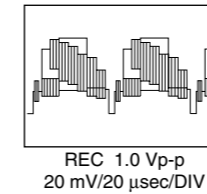
< VIDEO >



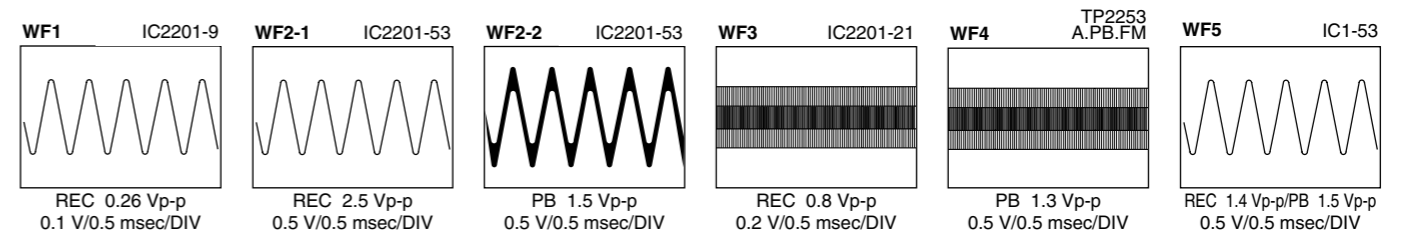
WF7 IC1-11



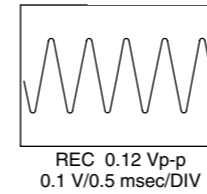
WF8 IC1-16



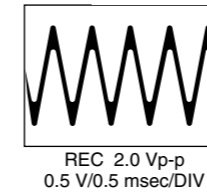
< AUDIO >



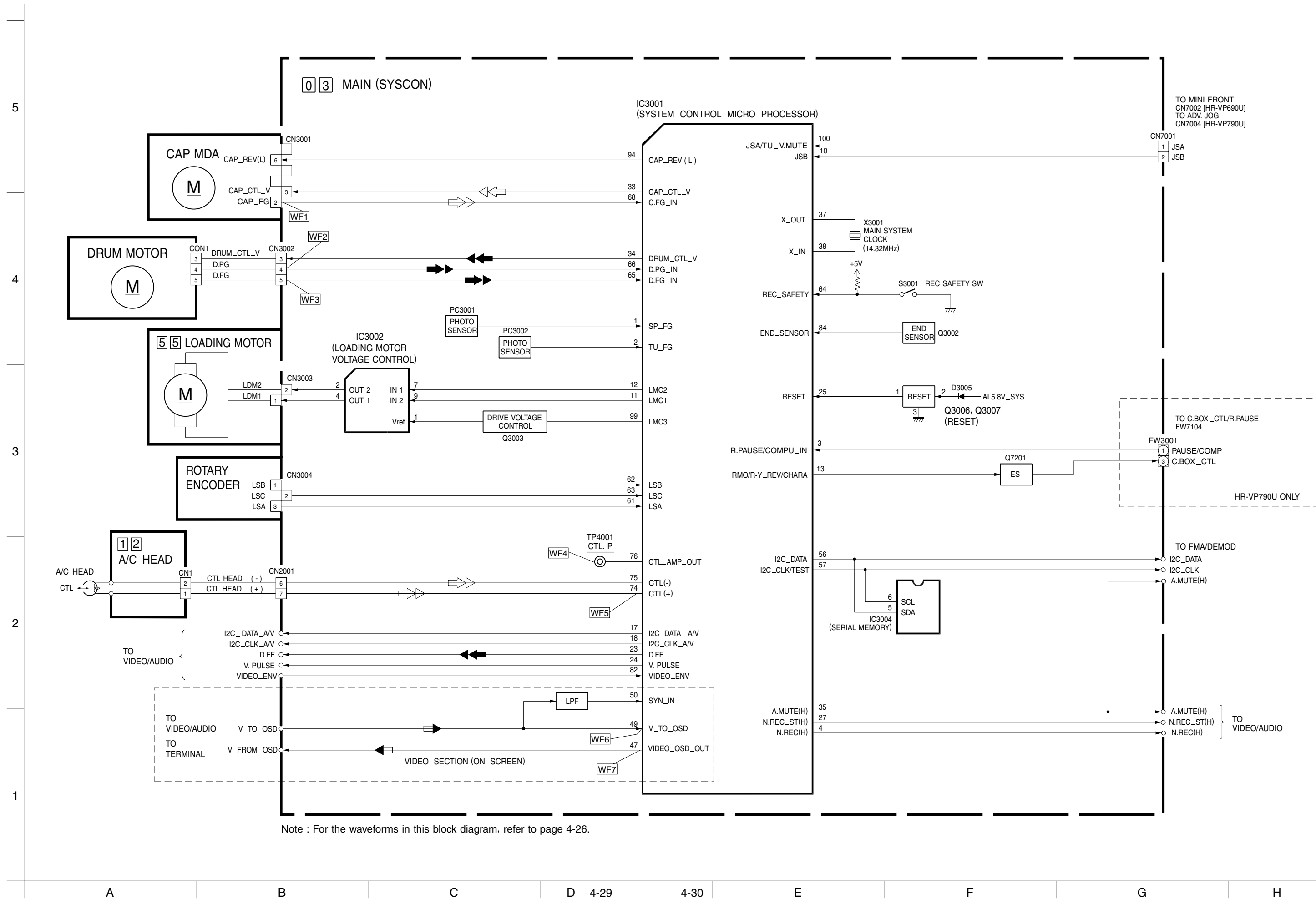
WF6 IC1-63



WF7 IC1-99

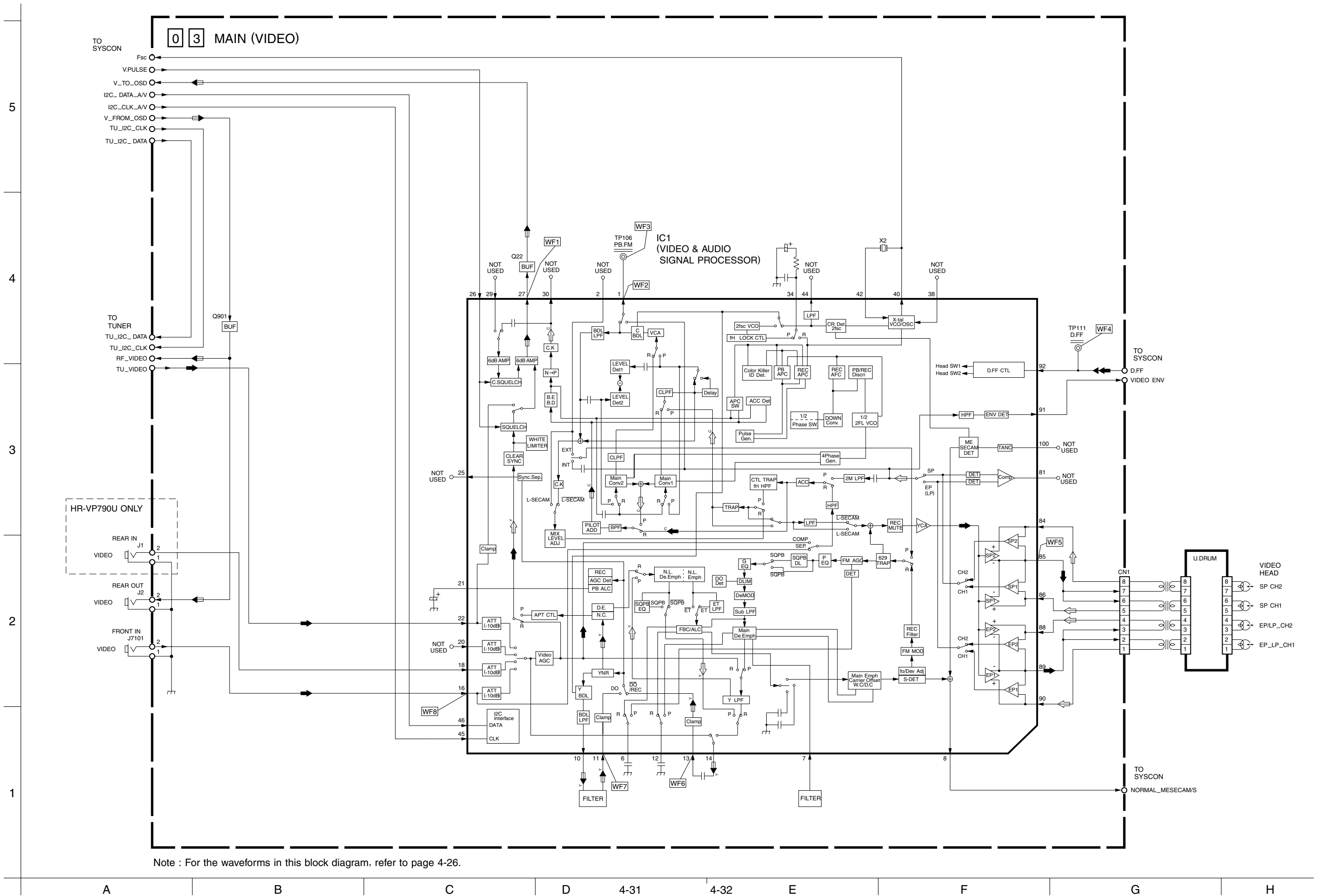


4.17 SYSTEM CONTROL BLOCK DIAGRAM

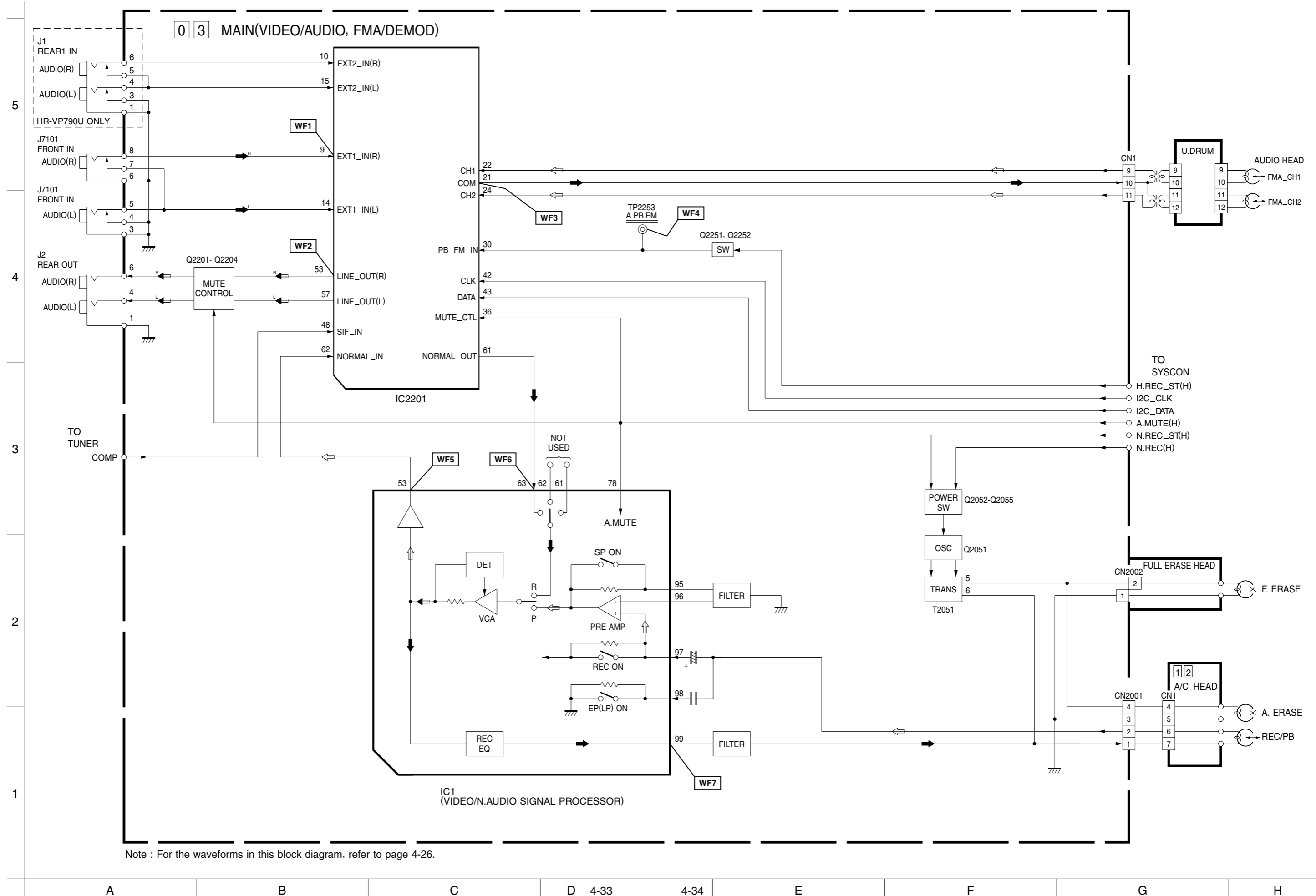


Note : For the waveforms in this block diagram, refer to page 4-26.

4.18 VIDEO BLOCK DIAGRAM



4.19 AUDIO BLOCK DIAGRAM



Note : For the waveforms in this block diagram, refer to page 4-26.