


# 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.

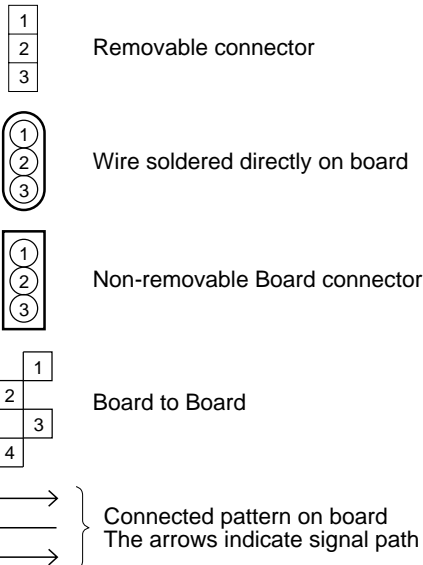
- 1) All resistance values are in ohm, 1/6 W, 1/8 W (refer to parts list).  
Chip resistors are 1/16 W.  
K or k: k $\Omega$  (1000 $\Omega$ ), M: M $\Omega$  (1000k $\Omega$ )
- 2) All capacitance values are in  $\mu$ F, (P: PF).
- 3) All inductance values are in  $\mu$ H, (m: mH).
- 4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

### 2. Indications of control voltage

AUX : Active at high

AUX or AUX(L) : Active at low

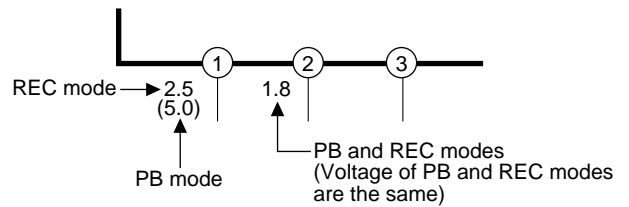
### 3. Interpreting Connector indications



### 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

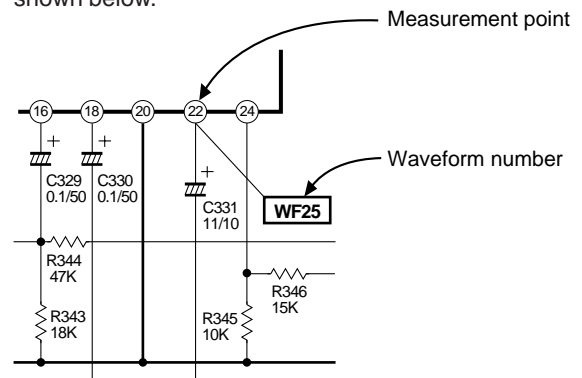
- 4) Indication on schematic diagram  
Voltage Indications for REC and PB mode on the schematic diagram are as shown below.



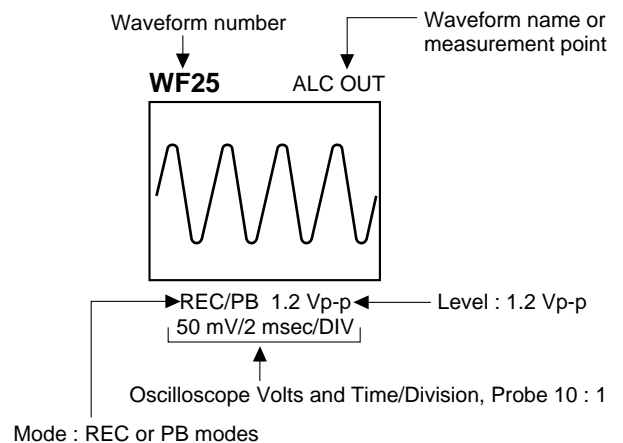
**Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.**

### 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.

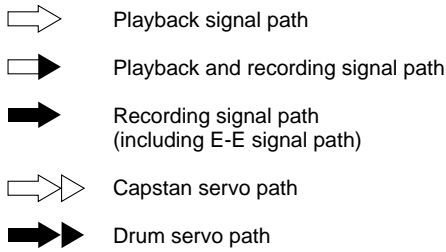


### 5) Waveform indications

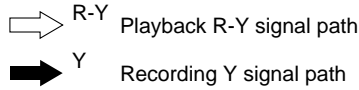


## 6. Signal path Symbols

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.



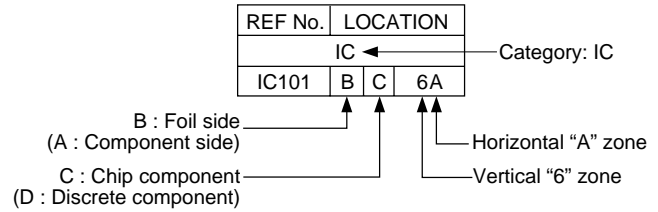
## CIRCUIT BOARD NOTES

### 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.

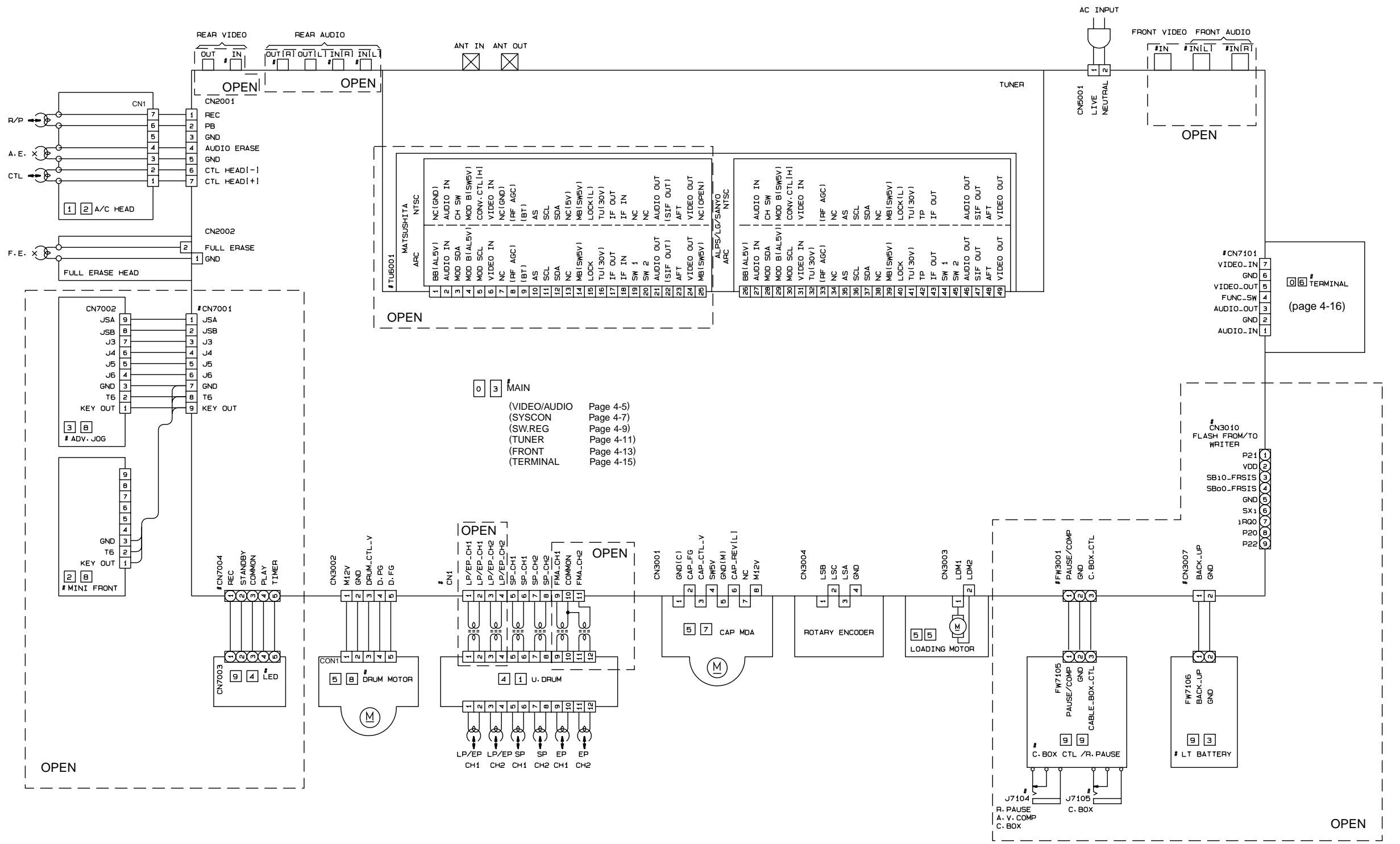


### Note:

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

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0 3 MAIN  
(VIDEO/AUDIO Page 4-5)  
(SYSCON Page 4-7)  
(SW.REG Page 4-9)  
(TUNER Page 4-11)  
(FRONT Page 4-13)  
(TERMINAL Page 4-15)

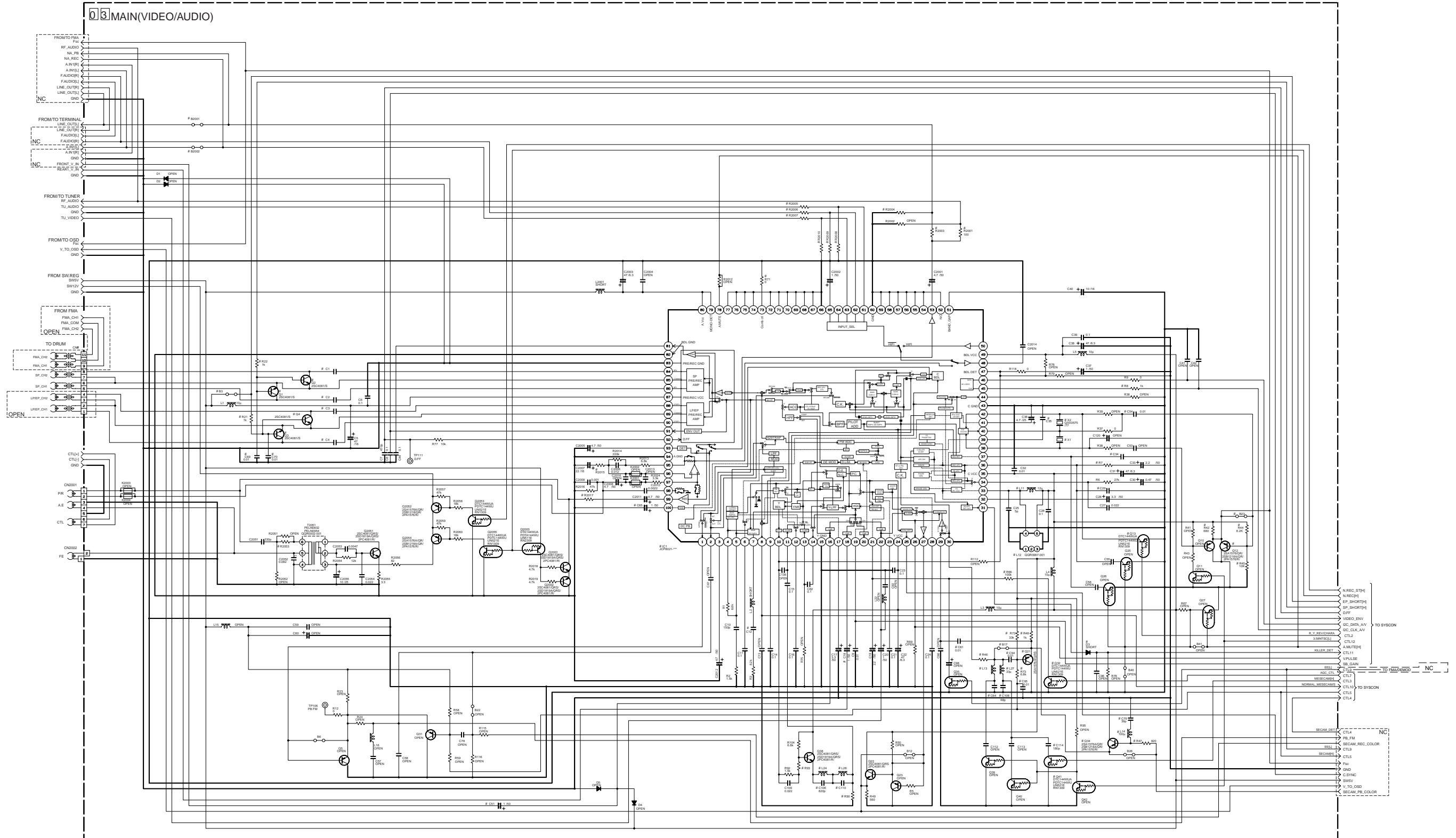
# Different between models

NO	NAME
9 9	C. BOX CTL/R. PAUSE
9 4	LED
9 3	LT BATTERY
5 8	DRUM MOTOR
5 7	CAP. MDA
5 5	LOADING MOTOR
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

A B C D 4-3 4-4 E F G H

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	Q3	Q12	Q13	Q32	Q41	R7	R8	R42,R44,R45	R46	R66	R90	R93	C12	C29	C34	C35	C54	C65	C69,C70	C81	C108	C108	C110	C114	L13	L24	L27	L28	B17	B23	Q21,Q34,R47,R48,R72,R73,C79,C84,C85,L14	
NTSC	PCE(S)	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	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	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	
PAL N	MVD-2	QAX0580	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	
PAL/ARC	MONO	MVD-2	QAX0580	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	
HF1	MVD-2	QAX0576/79	X	O	X	X	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	
MONO	MVD-2	QAX0576/79	X	O	X	X	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	
HF1	MVD-2	QAX0576/79	X	O	X	X	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
SECAM	MONO	MVD-2	QAX0576/79	X	O	X	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

#DIFFERENCE TABLE 2

3.5INTSC	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	Q1,Q3	Q9,Q4	C1,C2	C3,C4	R71	R21	R23	B3	CN1
NTSC/PAL-M	X	X	1	1	X	X	X	X	11 PIN(1-11)
PAL/ARC/PAL-N	O	O	0.01	0.01	X	O	O	X	11 PIN(1-11)
NTSC/PAL-M	X	X	1	1	X	X	X	X	8 PIN(1-8)
PAL/ARC/PAL-N	X	X	0.1	0.1	X	X	X	X	8 PIN(1-8)
SECAM	X	O	0.1	SHORT	O	O	O	O	4 PIN(5-8)
OTHER	X	X	0.1	X	O	X	X	X	4 PIN(5-8)

#DIFFERENCE TABLE 5

CE	L11	L12
YES	X	O
NO	O	X

#DIFFERENCE TABLE 6

DESTINATION	INPUT	R2006	R2009	B2002	R2007	R2010
HF1	NTSC/PAL-M/PAL-N	X	X	X	X	X
ARC	FRONT/REAR	X	X	X	X	X
MONO	NTSC/PAL-M/PAL-N	47k	6.8k	O	47k	6.8k
FRONT/REAR	FRONT	47k	6.8k	X	47k	X
REAR	FRONT	X	X	O	47k	6.8k
PAL/ARC	FRONT/REAR	47k	5.6k	O	47k	5.6k
FRONT	FRONT	47k	5.6k	X	X	X
REAR	REAR	X	X	O	5.6k	47k

#DIFFERENCE TABLE 5

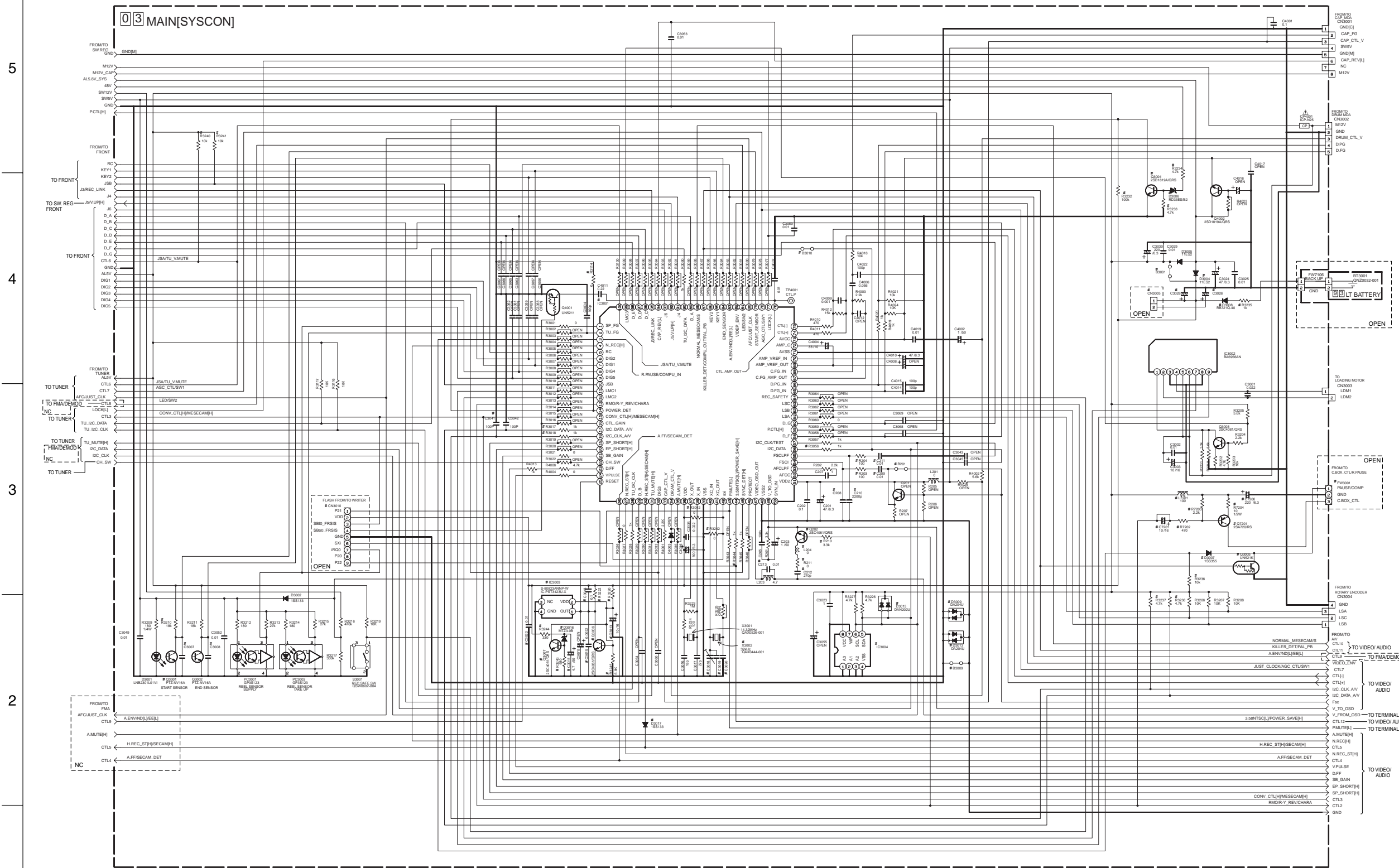
RF-OUT	B2001	B2001	R2003	R2004	R2005	R2008	R2015	R2017	R2053
NTSC/PAL-M	X	X	100	X	X	X	180	12k	2.7k
PAL-N	X	X	100	X	X	X	120	18k	5.6k
PAL/ARC	X	X	100	X	X	X	180	15k	3.9k
NTSC/PAL-M	O	O	680	2.7k	33k	47k	180	12k	2.7k
PAL-N	O	O	680	2.7k	33k	47k	120	18k	5.6k
PAL/ARC	O	O	100	4.7k	15k	10k	180	15k	3.9k

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 P.F.  
 + ELECTROLYTIC  
 - CERAMIC  
 - MYLER  
 - NON POLAR

4.3 MAIN (SYSCON) SCHEMATIC DIAGRAM

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



#DIFFERENCE TABLE

SYSCON IC	IC3001	HR-J278EU
EEPROM	IC3004	E
LITHIUM BACK UP	D3008	X
	R3235	X
R.PAUSE	CN3007	X
C.BOX CTL	Q3005	X
	R3236 D3007	X
	R7202 R7203 R7204	X
	L7201 C7206 Q7201	X
	C7201	X
ADV. JOG/SHUTTLE	R3240 R3241	X
3.58NTSC(L) POWER SAVE(H) BACK UP	R3044	X
	C3026	X
	C3028	3300
	CN3005	X
	B3001	X
	D3004	O
SUB CLOCK	R3042	O
	R3242	X
	X3002	O
	C3018	30P
	C3019	10P
	C3020	18P
POWER DET	R3232 R3233 R3234	O
	D3006 Q3004	X
	R3114	X
RESET CIRCUIT	R3220	10k
	R3222	4.7k
	R3243 R3244 R3245	X
	D3016 Q3006 Q3007	X
	C3011	X
RESET IC	IC3003	O
ANTI LINE NOISE	C3013 C3022	O
START SENSOR	Q3001 R3210	X
OSD	C208 C210	100p
	C209 C211	O
	B201	O
	Q202 L204	O
ANTI ESD	R210 R211 C212 C213	O
	C3007	X
	C3008	0.01
	C3015	0.0022
	C3048	X
	D3009 D3013 D3015	X
	B3009	O
	R3237 R3238	4.7k
	R3017 R3018	1k

#DIFFERENCE TABLE

IC3001	MN101D02GW*	MN101D06GW*
B3010	X	O
R3056	O	X

#DIFFERENCE TABLE

HIFT	D3017
SECAM	O
OTHERS	X

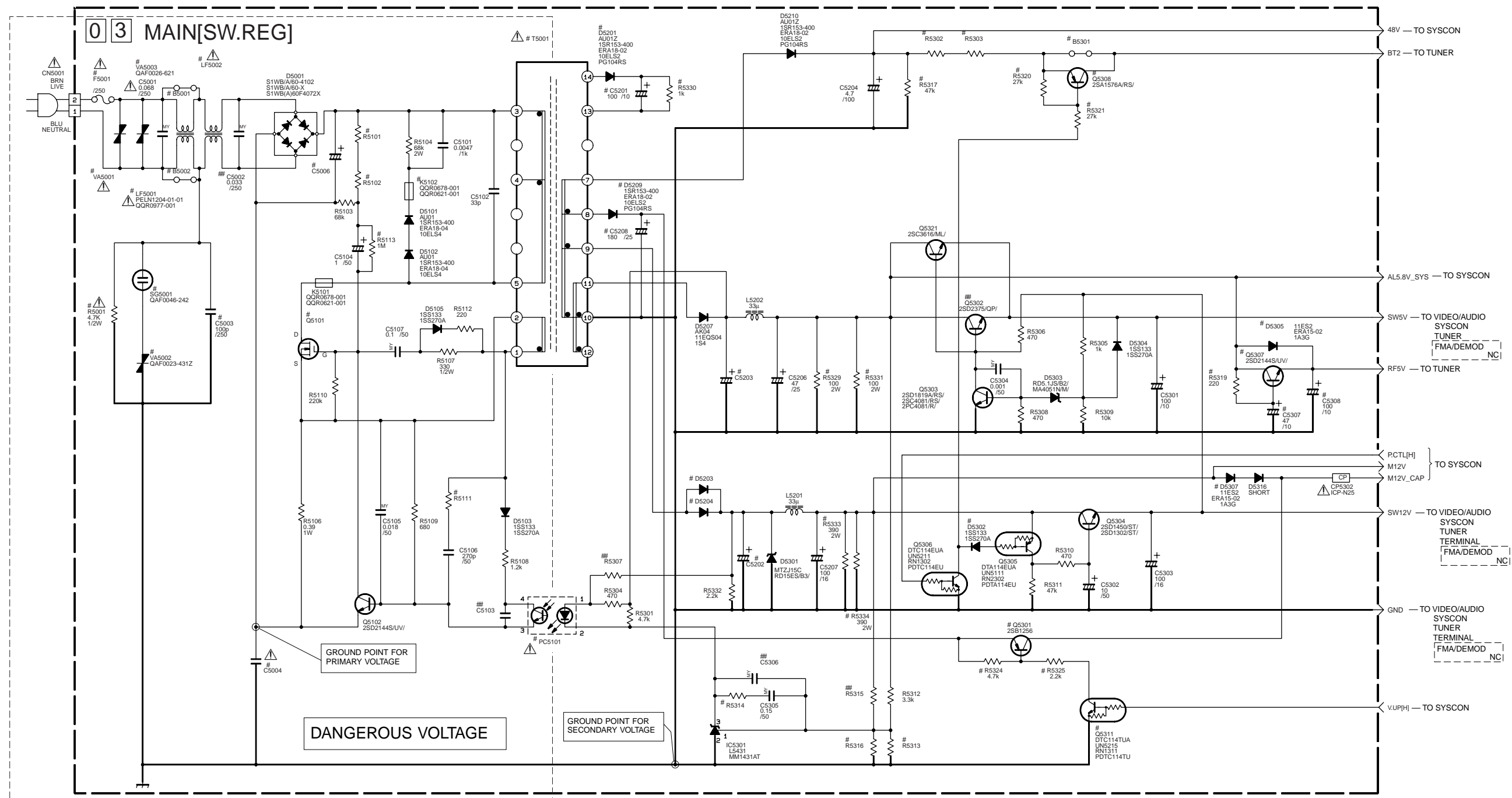
#DIFFERENCE TABLE

IC3004	32K	SEIKO	AT24C32N-10SC-X
		ATMEL	24LC32B/SN-X
		Microchip	BR24C32F-X
		Rohm	XICOR
		XICOR	---
	8K	SEIKO	AT24C08N-10SC-X
		ATMEL	24LC08B/SN-X
		Microchip	BR24C08F-X
		Rohm	XICOR
		XICOR	X24C08S-X
	4K	SEIKO	S-24C04B-F-X
		ATMEL	AT24C04N-10SC-X
		Microchip	24LC04B/SN-X
		Rohm	BR24C04F-W-X
		XICOR	X24C04S-X
	2K	SEIKO	S-24C02B-F-X
		ATMEL	AT24C02N-10SC-X
		Microchip	24LC02B/SN-X
		Rohm	BR24C02F-W-X
		XICOR	---

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4.4 MAIN (SW.REG) SCHEMATIC DIAGRAM

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



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#DIFFERENCE TABLE 1

	QS101	R5001	C5004	C5006	PC5101	F5001
US	2SK2043 2SK2324	YES	0.0047 /250	47 /200	PS2501-1 PC317 ON3131/RS/ PC817X	1.25A
PH/78	2SK3255	NO	0.0022 /250	68 /400	PS2561L1-1/W/L PC123F2 ON3171R/	2A
OTHER	2SK2632 2SK2129	NO	0.0022 /250	68 /400	PS2561L1-1/W/L PC123F2 ON3171R/	2A

#DIFFERENCE TABLE 2

CE	Q5308 R5317	R5320 R5321	B5301	D5302	R5101 R5102	R5111	LF5001	LF5002	B5002 B5001	R5302	R5303	R5313	R5314	R5316
-YES-	YES	NO	YES	330k	680	YES	QQR0608-001 QQR0609-001 QQR0610-001 QQR0611-001	NO	1.0k	1.2k	3.3k	1.0k	10k	
-NO-	NO	YES	SHORT	220k	820	NO	QQR0533-001 QQR0532-001 QQR0516-001 QQR0532-001 QQR0516-001	YES	1.5k	1.5k	3.6k	3.3k	8.2k	

#DIFFERENCE TABLE 4

RFSV	MODEL	D5305	Q5307 R5319	C5307 C5308
-NO-		NO	NO	NO
-YES-	PH/55 PH/75	NO	YES	
	OTHER	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

#DIFFERENCE TABLE 3

SURGE	SG5001	VA5001	VA5002	R5113	VA5003
US	SHORT	QAF0023-431Z QAF0024-431Z QAF0039-431Z	NO	NO	NO
OTHER	NO	NO	NO	NO	NO
US(PHILIPS)	YES	QAF0023-431Z	YES	YES	NO
PH AUTO VOLTAGE	NO	NO	NO	NO	YES

#DIFFERENCE TABLE 5

ROOM ANT	C5003	K5102
PHILIPS/78	YES	YES
PHILIPS/75	YES	SHORT
OTHER	NO	SHORT

#DIFFERENCE TABLE 6

AUTO VOLTAGE	RFSV -YES-	RFSV -NO-	OTHER	R5329	R5331	R5333	R5334
	NO	NO	YES	YES	YES	YES	YES
	NO	NO	YES	YES	YES	YES	YES
	NO	NO	NO	NO	NO	NO	NO
CE	NO	NO	YES	YES	NO	NO	NO

#DIFFERENCE TABLE 7

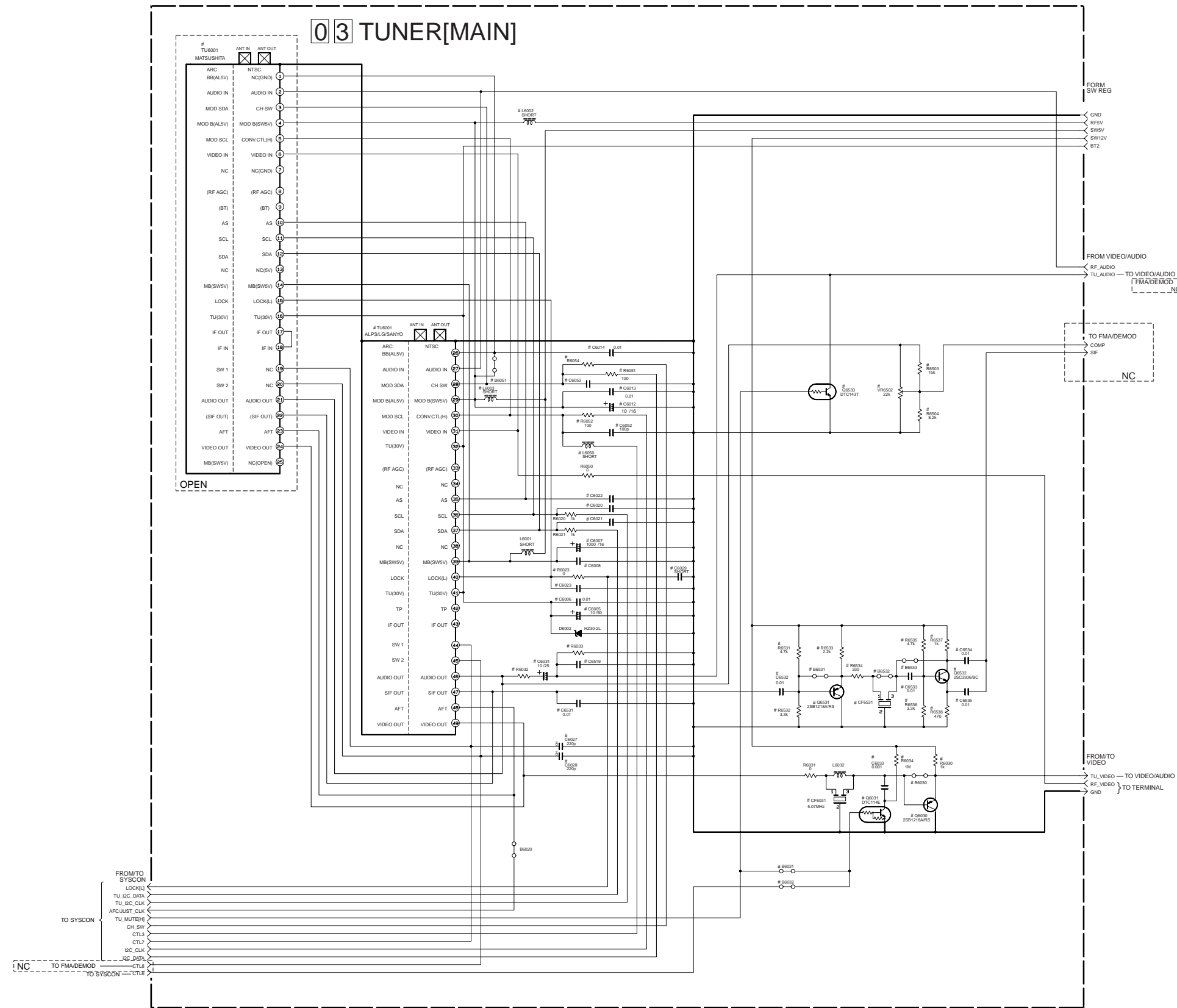
	T5001	Q5301 Q5311	R5324 R5325	C5208 C5209	D5201 R5330 C5201	D5307	D5203 D5204
HIGH SPEED FF/REW	QOS0030-002 QOS0031-002	YES	YES	YES	YES	YES	AU01Z 10ELS2
NORMAL SPEED FF/REW	QOS0083-001 QOS0084-001 QOS0093-001	NO	NO	NO	NO	SHORT	AU01Z 1SR153-400 ERA18-02 10ELS2 PG104RS
CE	QOS0034-001 QOS0033-001	NO	NO	NO	YES	SHORT	

#DIFFERENCE TABLE 8

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

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.



# DIFFERENCE TABLE (US.PAL-M/N)

	ALPS	HIFI	MONO
TUNER UNIT	ALPS SANYO	QAU0207 QAU0228	QAU0207 QAU0228
VIDEO BUFFER	QW030.R6030, R6030	○ X	○ X
VIDEO MUTE	CR031.R6034, CR033.R6031	X X	X X
LOCK	R6023.C6023, CR029	X ○	X ○
MONO	R6032, R6033, CR019, CR031	X X X X	15k 10k 0.012 ○
HFI	VR602	X	X
MOD B(SWSV)	R6031.R6034	○	X
CONV CTL	L6003	○	○
CONV SW	R6034	○	○
PR	CR005-CR008, CR012-CR014, CR020-CR022, CR050-CR053, CR051-CR052, CR051-CR053, CF001-CF003, R6031-R6033, R6031-R6033, CR031-CR033	X	X
	R6032.R6031, L6002, R6051.R6052, CR027.CR028	X	X

# DIFFERENCE TABLE (EUPORE,ASIA - PAL/MS)

TUNER UNIT	TU3001	EUEK				FRANCE MS		ASIA 3SYSTEM		ASIA 4SYSTEM	
		MATSUSHITA	ALPS	ALPS	LG	MATSUSHITA	ALPS	MATSUSHITA	ALPS	MATSUSHITA	MATSUSHITA
TUNER UNIT	TU3001	QAU0208	QAU0210	QAU0209	QAU0210	QAU0211	QAU0208	QAU0209	QAU0212		
VIDEO BUFFER	QW030.R6030	○	○	○	○	○	○	○	○	○	○
VIDEO MUTE	R6030	X	X	X	X	X	X	X	X	X	X
VIDEO MUTE	CR031.R6034, CR033	○	○	○	○	○	X	X	X	X	X
VIDEO MUTE	R6031	X	X	X	X	X	X	X	X	X	X
VIDEO MUTE	R6032	○	○	○	○	○	X	X	X	X	X
VIDEO MUTE	CR033	○	○	○	○	○	X	X	X	X	X
TU DC	CR029	X	X	X	X	X	X	X	X	X	X
TU DC	CR021	X	X	X	X	X	X	X	X	X	X
TU DC	CR022	X	X	X	X	X	X	X	X	X	X
LOCK	R6023.C6023, CR029	X ○	X ○	X ○	X ○	X ○	X ○	X ○	X ○	X ○	X ○
MONO	R6032, R6033, CR031, CR019	3.3k 1.8k ○ 0.047	3.3k 1.8k ○ 0.047	3.3k 1.8k ○ 0.047	3.3k 1.8k ○ 0.047	3.3k 1.8k ○ 0.047	3.3k 1.8k ○ 0.047	3.3k 1.8k ○ 0.047	3.3k 1.8k ○ 0.047	3.3k 1.8k ○ 0.047	3.3k 1.8k ○ 0.047
US MPX	VR602	X	X	X	X	X	X	X	X	X	X
ALSV	L6002.R6051	○	○	○	○	○	○	○	○	○	○
ALSV	CR012	X	X	X	X	X	X	X	X	X	X
ALSV	CR013	X	X	X	X	X	X	X	X	X	X
ALSV	CR014	○	○	○	○	○	○	○	○	○	○
MOD SDA/SCL	R6051.R6052	○	○	X	X	○	○	○	○	○	○
MOD SDA/SCL	R6054.L6050	X	X	X	X	X	X	X	X	X	X
MOD SDA/SCL	CR052.C6053	X	X	X	X	X	X	X	X	X	X
SWSV	L6003	X	X	X	X	X	X	X	X	X	X
SWSV	CR007	X	X	X	X	X	X	X	X	X	X
SWSV	CR008	X	X	X	X	X	X	X	X	X	X
TU30V	CR005	X	X	X	X	X	X	X	X	X	X
TU30V	CR006	X	X	X	X	X	X	X	X	X	X
SIF OUT	CR021-CR023, R6031-R6033, CF001	X	X	X	X	X	X	X	X	X	X
CENELEC S2	CR027	X	X	○	X	X	X	X	X	X	X
CENELEC S2	CR028	X	X	X	X	X	X	X	X	X	X

○:used  
X:Not used

CTL3	CONV_CTL3(MSECAMP)
CTL6	J1UBA/TU_V_MUTE
CTL7	AGC_CTL/SW
CTL8	LED/SW2

NOTES-UNLESS OTHERWISE SPECIFIED:  
ALL RESISTANCE VALUES ARE IN OHMS.  
ALL INDUCTANCE VALUES ARE IN H.  
ALL CAPACITANCE VALUES ARE IN P.F.  
ELECTROLYTIC  
CERAMIC  
MYLER  
NON POLAR

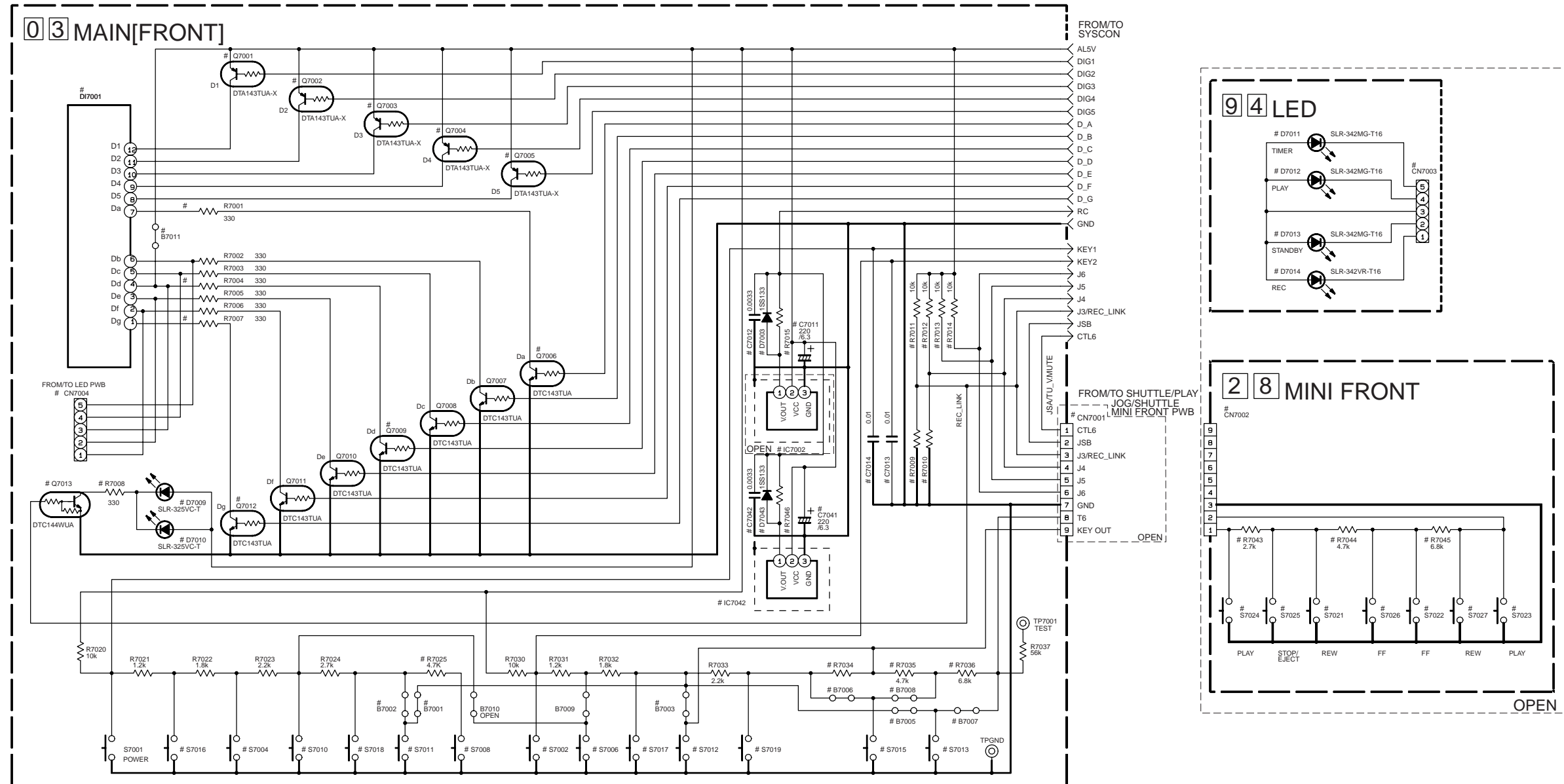
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5  
4  
3  
2  
1

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

4.6 MAIN (FRONT) 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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○:used  
×:Not used

##DIFFERENCE TABLE 1

BRAND	TOOL	WORKING NUMBER	S7001	S7002	S7004	S7006	S7008	S7010	S7011	S7012	S7013	S7014	S7015	S7016	S7017	S7018	S7019	S7021	S7022	S7024	S7027	SW on UNIT	J/S	DISP	R7025	R7034	R7035	R7036	R7043	B7001	B7002	B7003	B7004	B7005	B7006	B7007	B7008
JVC	400EA	D15 U/LIC, D15P U/LIC, D1EN	POWER	REC LINK	CH -	CH +	PLAY	E.PROG	REC	PAUSE	STOP/EJECT	DISPLAY										Adv	Adv	7seg	○	2.7kΩ	○	×	×	○	×	×	○	×	×		
	400E	D13 UM/M	POWER	C.RESET	CH -	CH +	REVIEW	S/P/E	REC	PAUSE	STOP/EJECT	DISPLAY											×	7seg	○	0Ω	×	○	×	○	×	×	○	×	×		
	360H	C0 U/LIC, C0P UM, C1 U/LIC, M/MEN, D0 U/LIC, D1 M.U.M, D1M U/LIC, A1 A, EME/AE/EE(AEA), A11 A, A2 EM, C1 AS/E/AE/EE(A/S)			REW/CH -	FF/CH +	PLAY							POWER	STOP/EJECT	REC	PAUSE/CH						×	7seg	×	2.7kΩ	○	×	×	×	×	×	×	×	×	×	
PHILIPS	01A	D1 /78/50, C1 /50/78	POWER		REW/CH -	FF/CH +	PLAY							STAND-BY	STOP/EJECT	REC	PAUSE/CH					×	7seg	×	2.7kΩ	○	×	×	×	×	×	×	×	×	×	×	
	A1(VR120/55), D1(VR602/55)	POWER		FF/CH -	CH	STOP/EJECT								REC	REW/CH -	PLAY						×	4dig	○	2.7kΩ	○	×	×	×	×	×	×	×	×	×	×	
	01B	A1 /55, C1 /50/55/61, D1 /55	POWER	PAUSE	MENU	OK	REC	CH -	CH +						VCR/TV								×	7seg	○	0Ω	×	○	○	×	×	×	×	×	×	×	
00A		POWER	PAUSE	MENU	OK	REC	CH -	CH +															○	0Ω	○	○	○	×	×	×	×	×	×	×	×	×	
SEARS	360H				REW/CH -	FF/CH +	PLAY						POWER	STOP/EJECT	REC	PAUSE/CH						×	7seg	×	2.7kΩ	○	×	×	×	×	×	×	×	×	×	×	
AUDINAC	360H				REW/CH -	FF/CH +	PLAY						POWER	STOP/EJECT	REC	PAUSE/CH						×	7seg	×	2.7kΩ	○	×	×	×	×	×	×	×	×	×	×	

##DIFFERENCE TABLE 2

BRAND	TOOL	IC7002	D7003	R7015	D7043	IC7042	R7046
JVC	400EA, 400E	GP1U291Q PNA4652M00YC PIC-28143LJ	×	0Ω	×	×	×
	360H	×	×	×	×	GP1U291Q PNA4652M00YC PIC-28143LJ	0Ω
PHILIPS	01A	×	×	×	○	GP1U290Q PNA4652M00YC PIC-28142LJ	100k
	01B, 00A	GP1U290Q PNA4652M00YC PIC-28142LJ	○	100k	×	×	×

##DIFFERENCE TABLE 3

DISPLAY TYPE	D7001	Q7001-Q7006	Q7009, Q7012	R7001, R7004	R7007	CN7003	D7011-D7014	CN7004	B7011
12H.7 SEG AMBER	LTG-Y2K12M-01J	○	○	×	×	×	×	×	×
12/24H.7 SEG GREEN	LTG-Y2K16M-J	○	○	×	×	×	×	×	×
4-DIG	×	×	×	○	○	○	○	○	○

##DIFFERENCE TABLE 4

JOG/SHUTTLE	R7009-R7014
WITH J/S	○
WITH ADV J/S	×
OTHERS	×

##DIFFERENCE TABLE 5

REC LINK	Q7013	D7009	D7010
YES	○	RED	×
NO	×	×	×

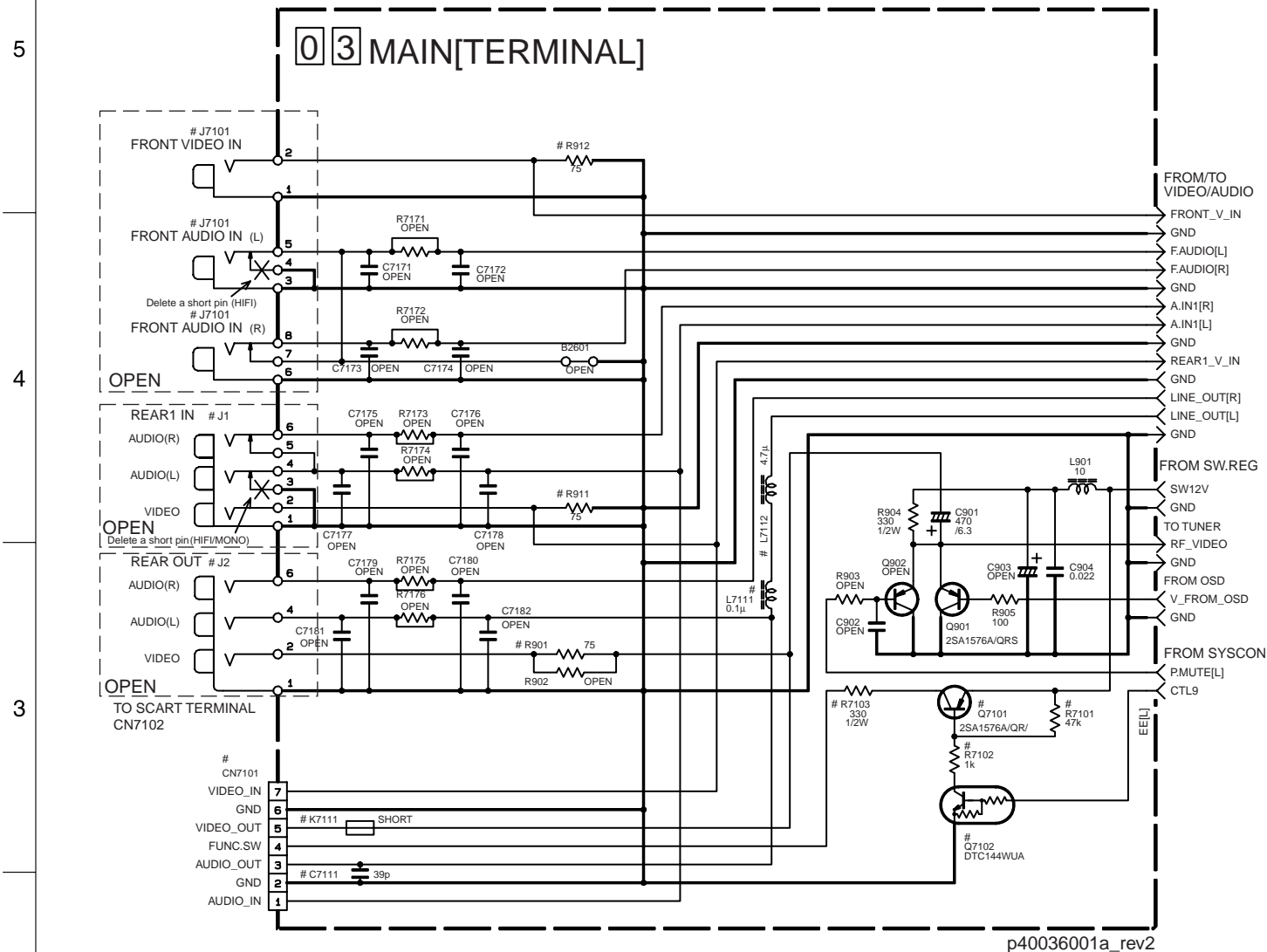
NOTES: UNLESS OTHERWISE SPECIFIED.  
ALL RESISTANCE VALUES ARE IN OHMS.  
ALL INDUCTANCE VALUES ARE IN H.  
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC  
 CERAMIC  
 MYLAR  
 NON POLAR



4.7 MAIN (TERMINAL) 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.



p40036001a\_rev2

#DIFFERENCE TABLE 1

OUTPUT	J2
HiFi	3P
MONO	2P

#DIFFERENCE TABLE 3

	K7111	C7111	L7111	L7112
HR-J278EU	○	○	○	○
OTHER	OPEN			SHORT

#DIFFERENCE TABLE 2

	INPUT	J1	J7101	R911	R912	R901	CN7101,Q7101,Q7102,R7101-R7103
HiFi	FRONT	×	3P	×	○	○	×
	REAR	×	3P	○	×	○	×
	FRONT/REAR	×	3P	○	○	○	×
MONO	FRONT	×	2P	×	○	○	×
	REAR	×	2P	○	×	○	×
	FRONT/REAR	×	2P	○	○	○	×
	PERI CONNECTOR	×	×	×	×	×	○

NOTES: UNLESS OTHERWISE SPECIFIED.

ALL RESISTANCE VALUES ARE IN OHMS.

ALL INDUCTANCE VALUES ARE IN H.

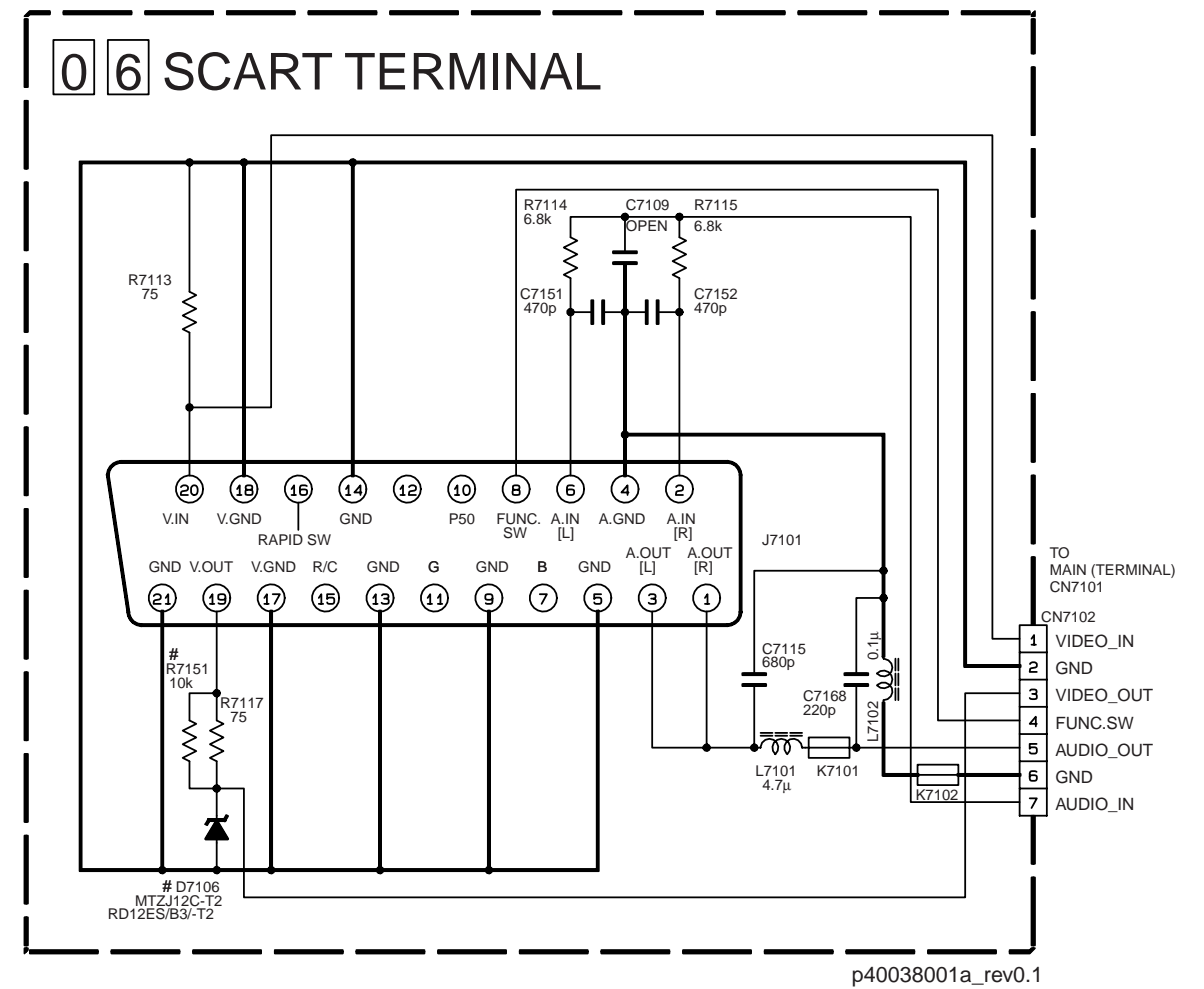
ALL CAPACITANCE VALUES ARE IN μF.

- ELECTROLYTIC
- CERAMIC
- MYLER
- NON POLAR

○:used  
×:Not used

4.8 SCART TERMINAL SCHEMATIC DIAGRAMS

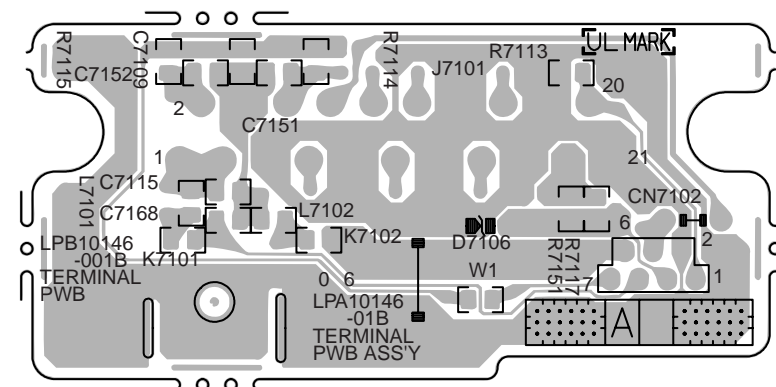
Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



p40038001a\_rev0.1

4.9 TERMINAL CIRCUIT BOARD

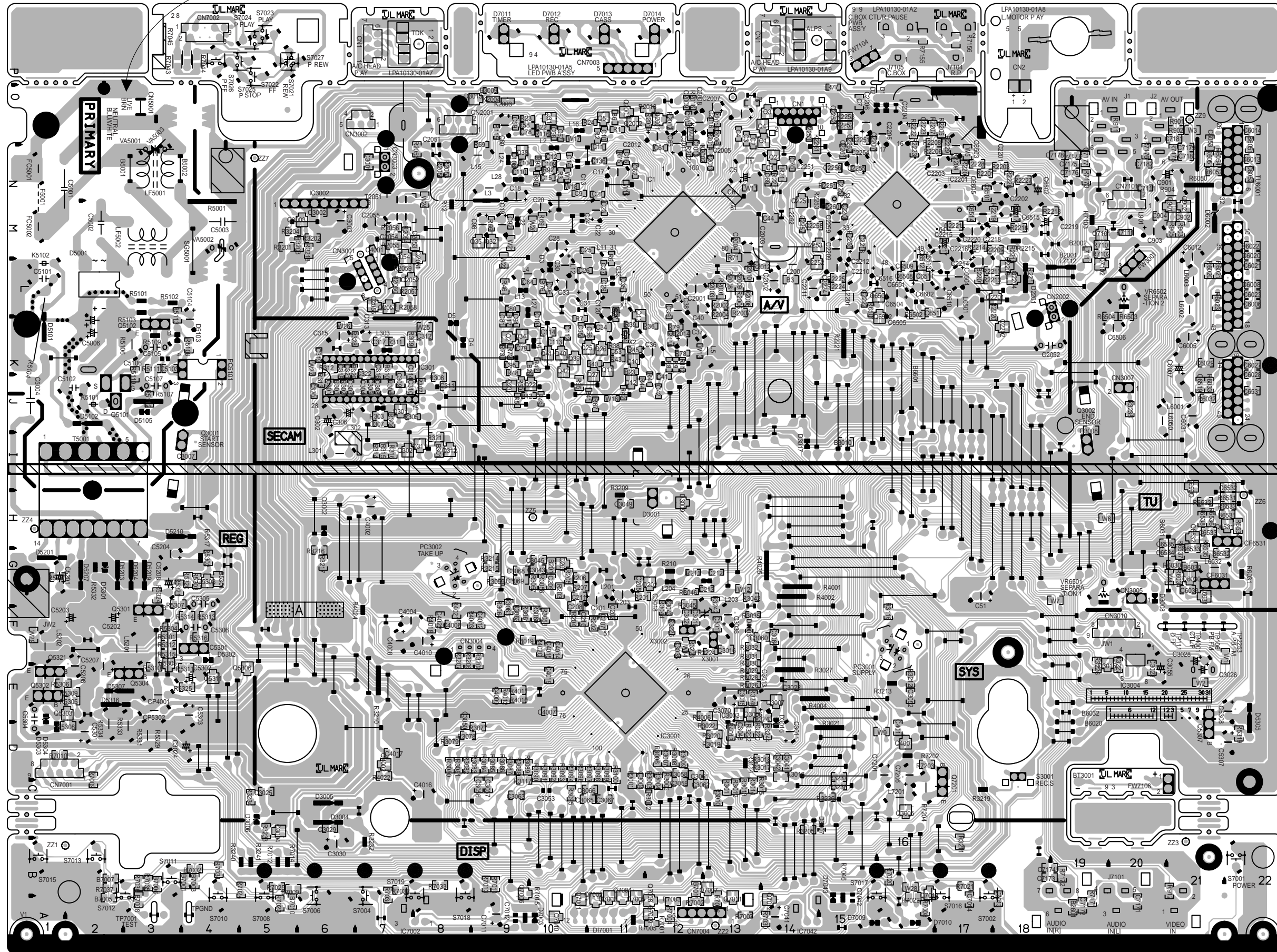
<06> TERMINAL  
LPB10146-001B



4.10 MAIN CIRCUIT BOARD

<03> MAIN  
LPB10130-001D

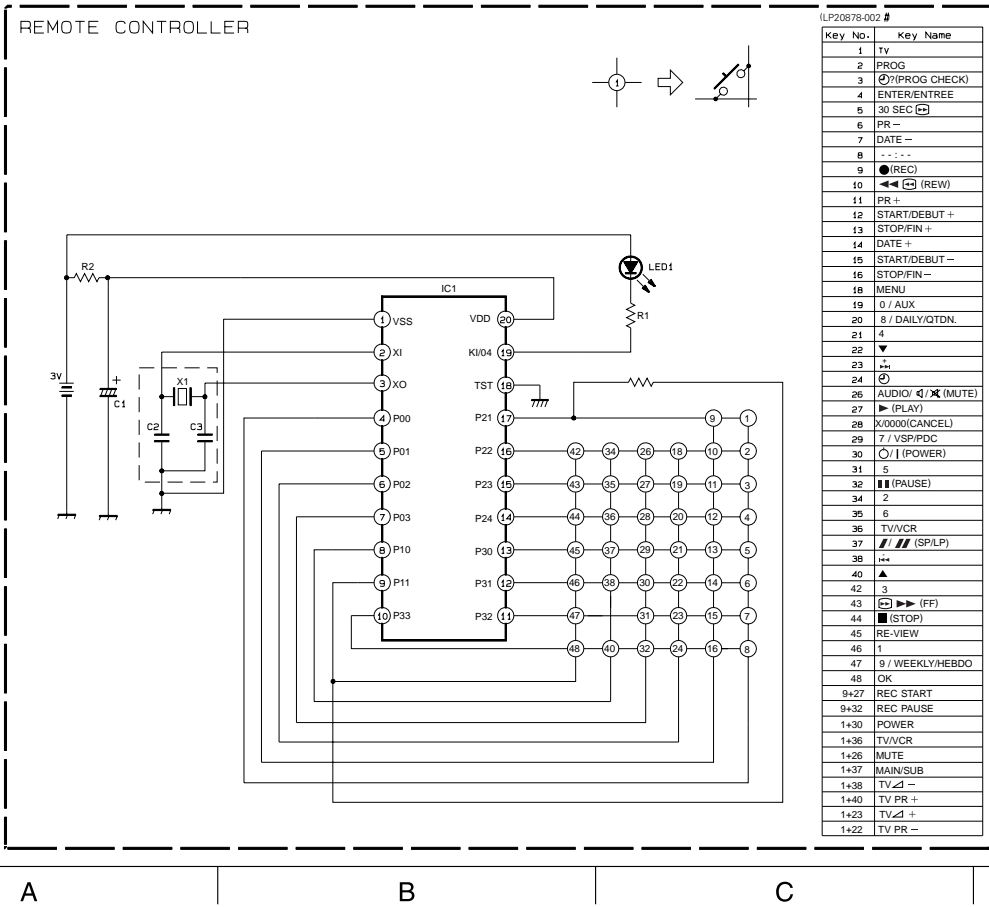
**DANGEROUS VOLTAGE**





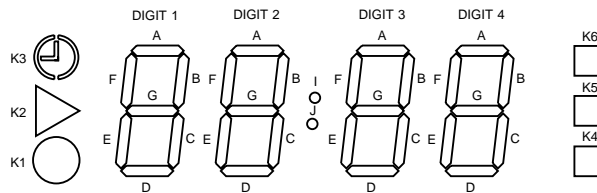
### 4.11 REMOTE CONTROLLER SCHEMATIC DIAGRAM

- 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.



### 4.12 FDP GRID ASSIGNMENT AND ANODE CONNECTION

#### GRID ASSIGNMENT

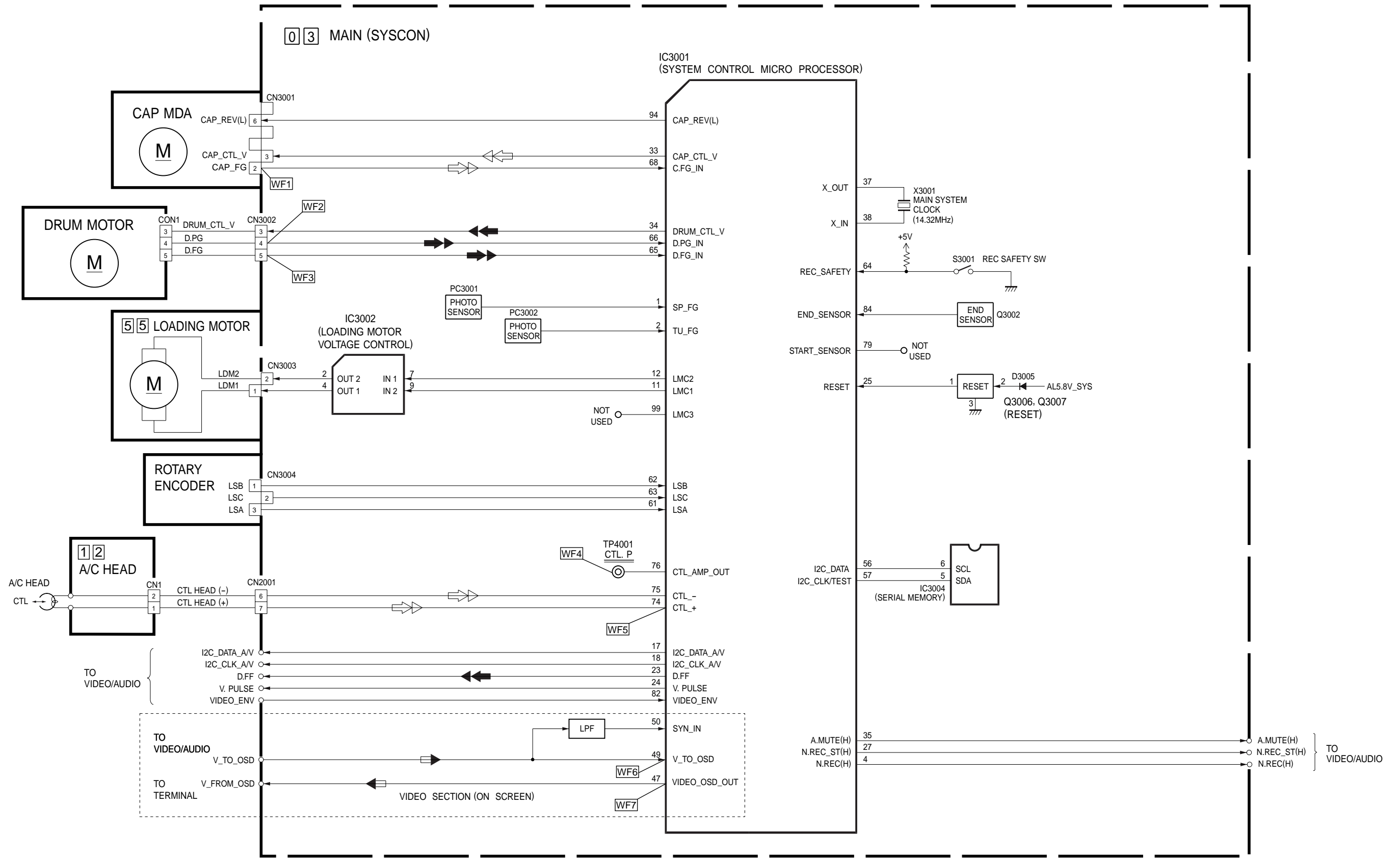


#### ANODE CONNECTION

No.	CONNECTION
1	CATHODE 1G, 2G, 3G, 4G, I, J
2	CATHODE 1F, 2F, 3F, 4F, K6
3	CATHODE 1E, 2E, 3E, 4E, K1
4	CATHODE 1D, 2D, 3D, 4D, K4
5	CATHODE 1C, 2C, 3C, 4C, K5
6	CATHODE 1B, 2B, 3B, 4B, K2
7	CATHODE 1A, 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

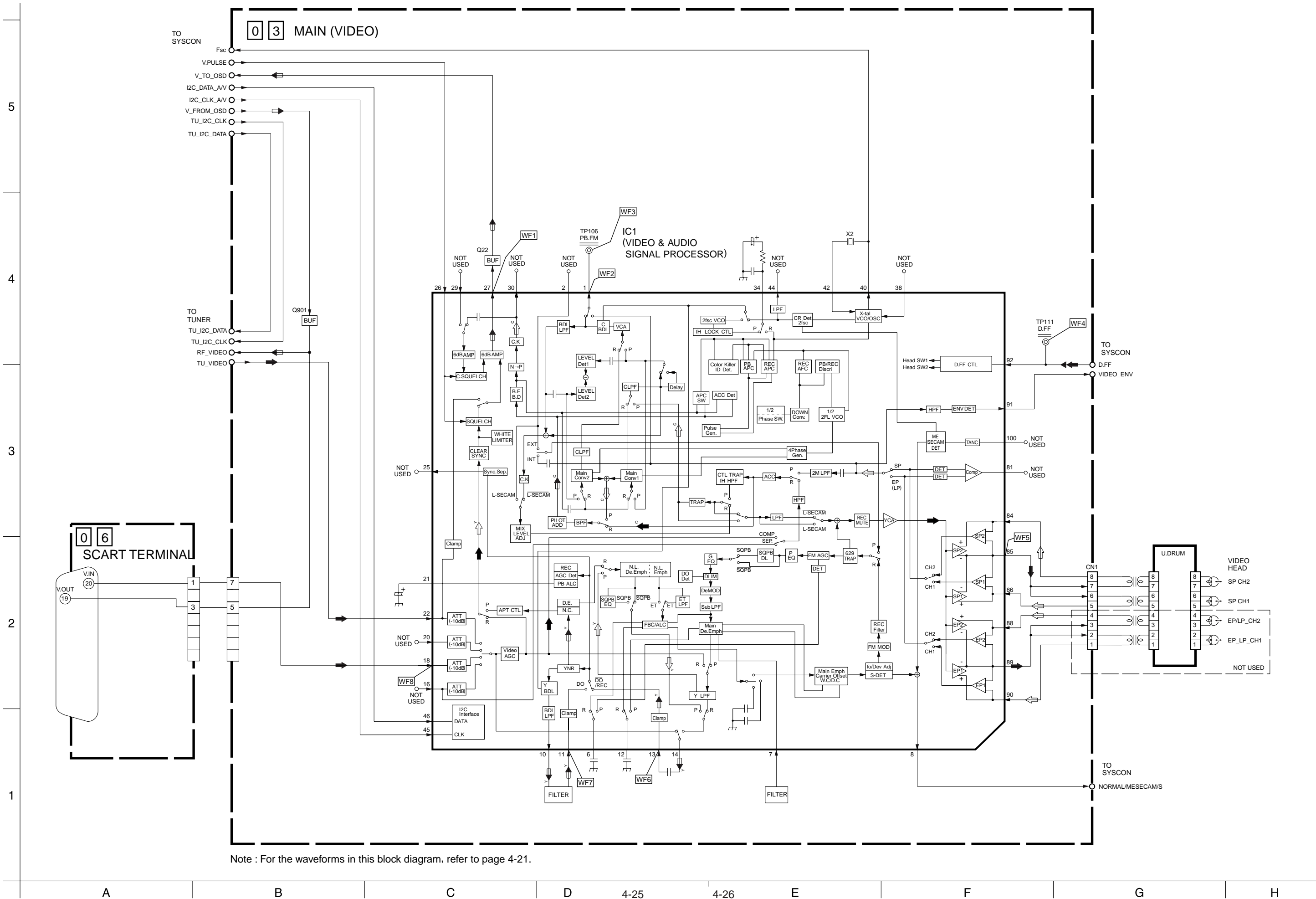


4.16 SYSTEM CONTROL BLOCK DIAGRAM



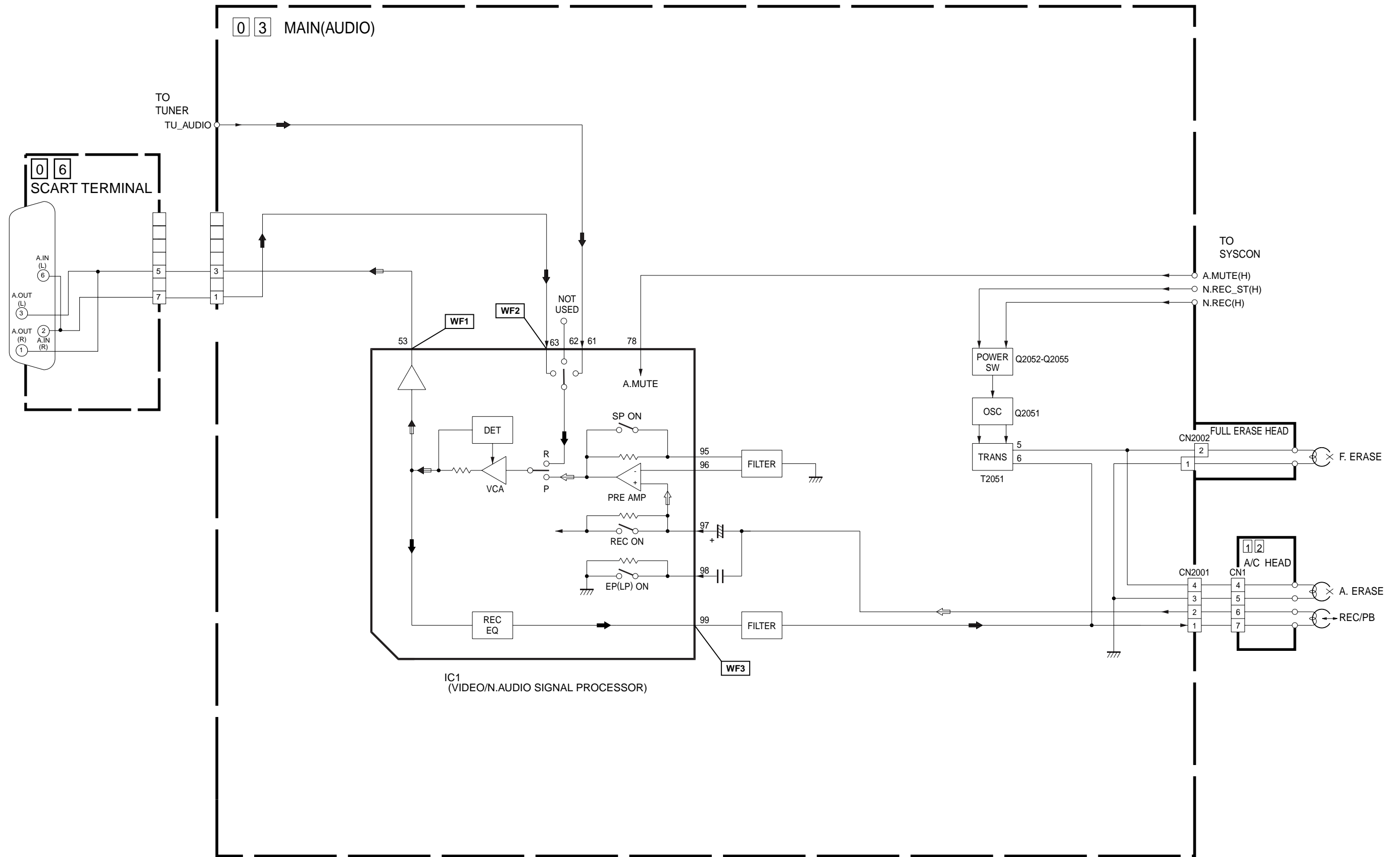
Note : For the waveforms in this block diagram, refer to page 4-21.

4.17 VIDEO BLOCK DIAGRAM



Note : For the waveforms in this block diagram, refer to page 4-21.

4.18 AUDIO BLOCK DIAGRAM



Note :For the waveforms in this block diagram, refer to page 4-21.