


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.

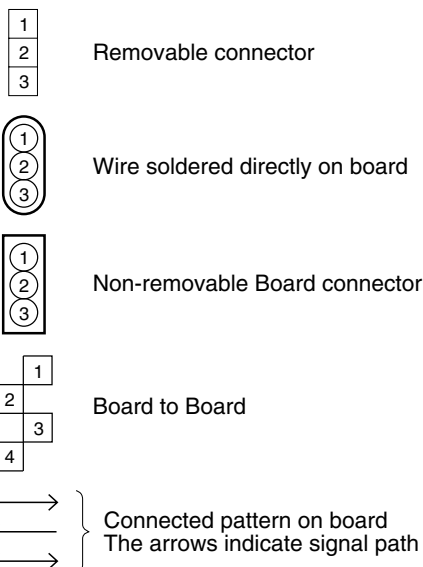
- 1) All resistance values are in ohm, 1/6 W, 1/8 W (refer to parts list).
Chip resistors are 1/16 W.
K or k: k Ω (1000 Ω), M: M Ω (1000k Ω)
- 2) All capacitance values are in μ F, (P: PF).
- 3) All inductance values are in μ H, (m: mH).
- 4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

AUX : Active at high

AUX or AUX(L) : Active at low

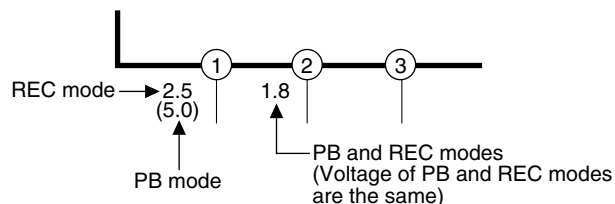
3. Interpreting Connector indications



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

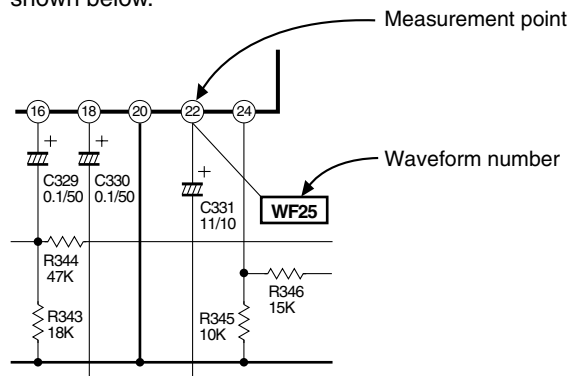
- 4) Indication on schematic diagram
Voltage Indications for REC and PB mode on the schematic diagram are as shown below.



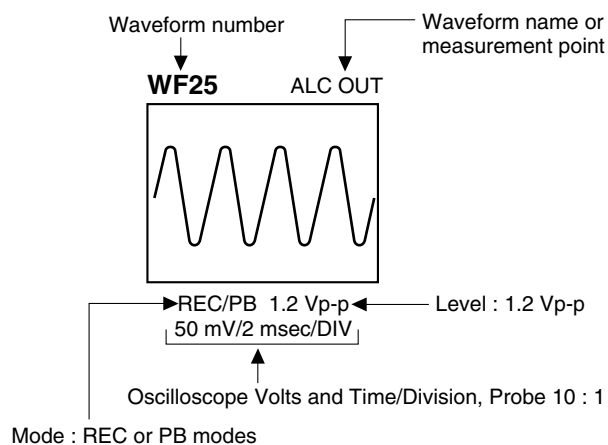
Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

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.

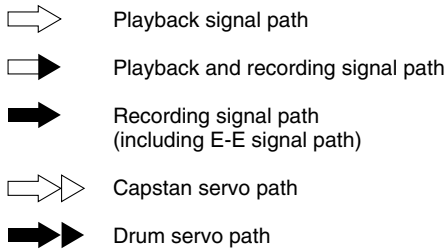


5) Waveform indications

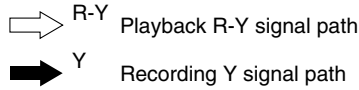


6. Signal path Symbols

The arrows indicate the signal path as follows.

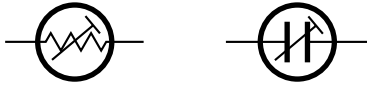


(Example)



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.



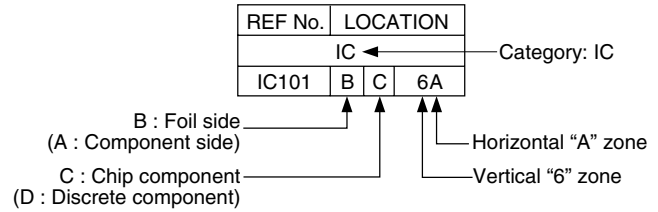
CIRCUIT BOARD NOTES

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

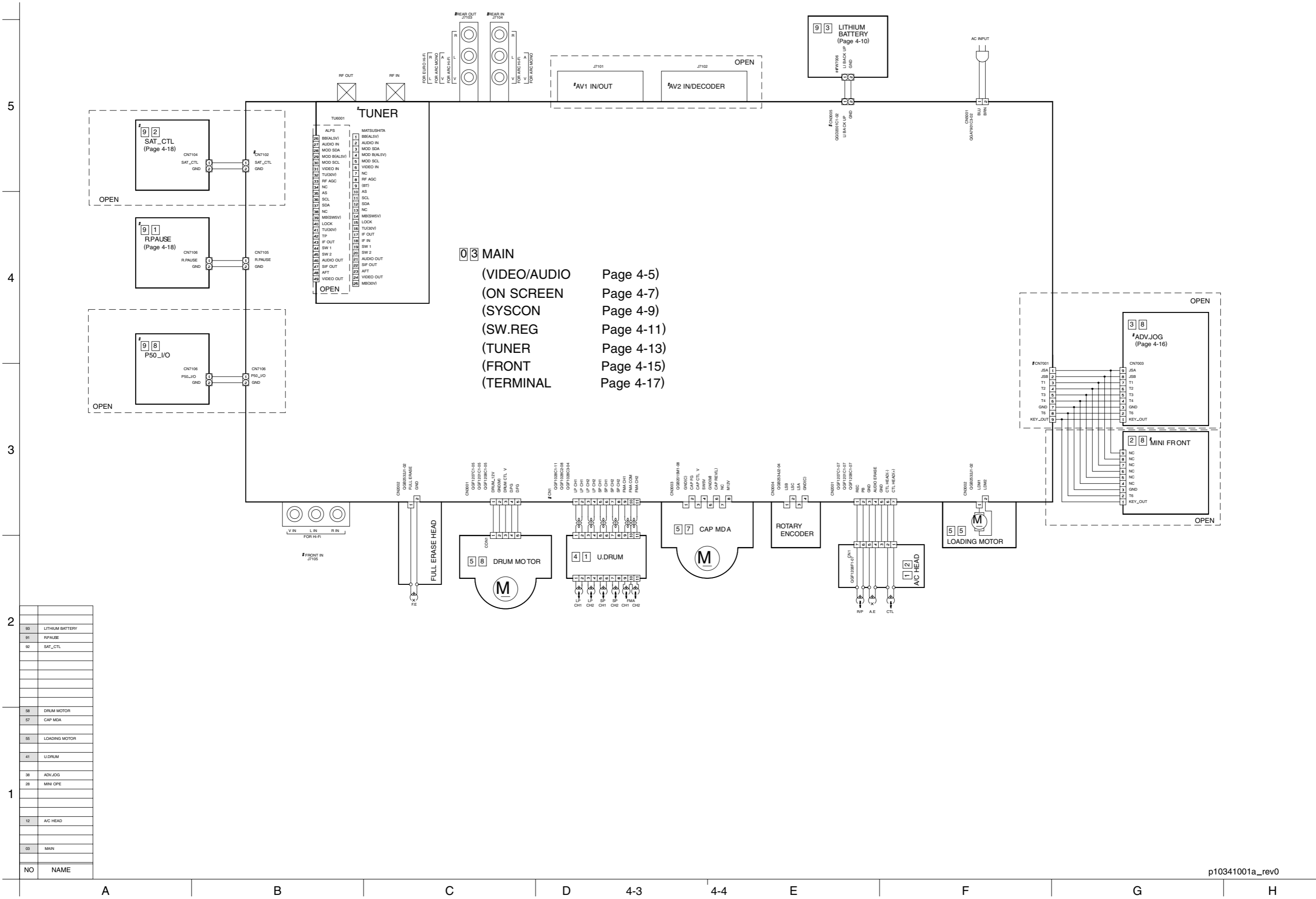
Parts location are indicated by guide scale on the circuit board.



Note:

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

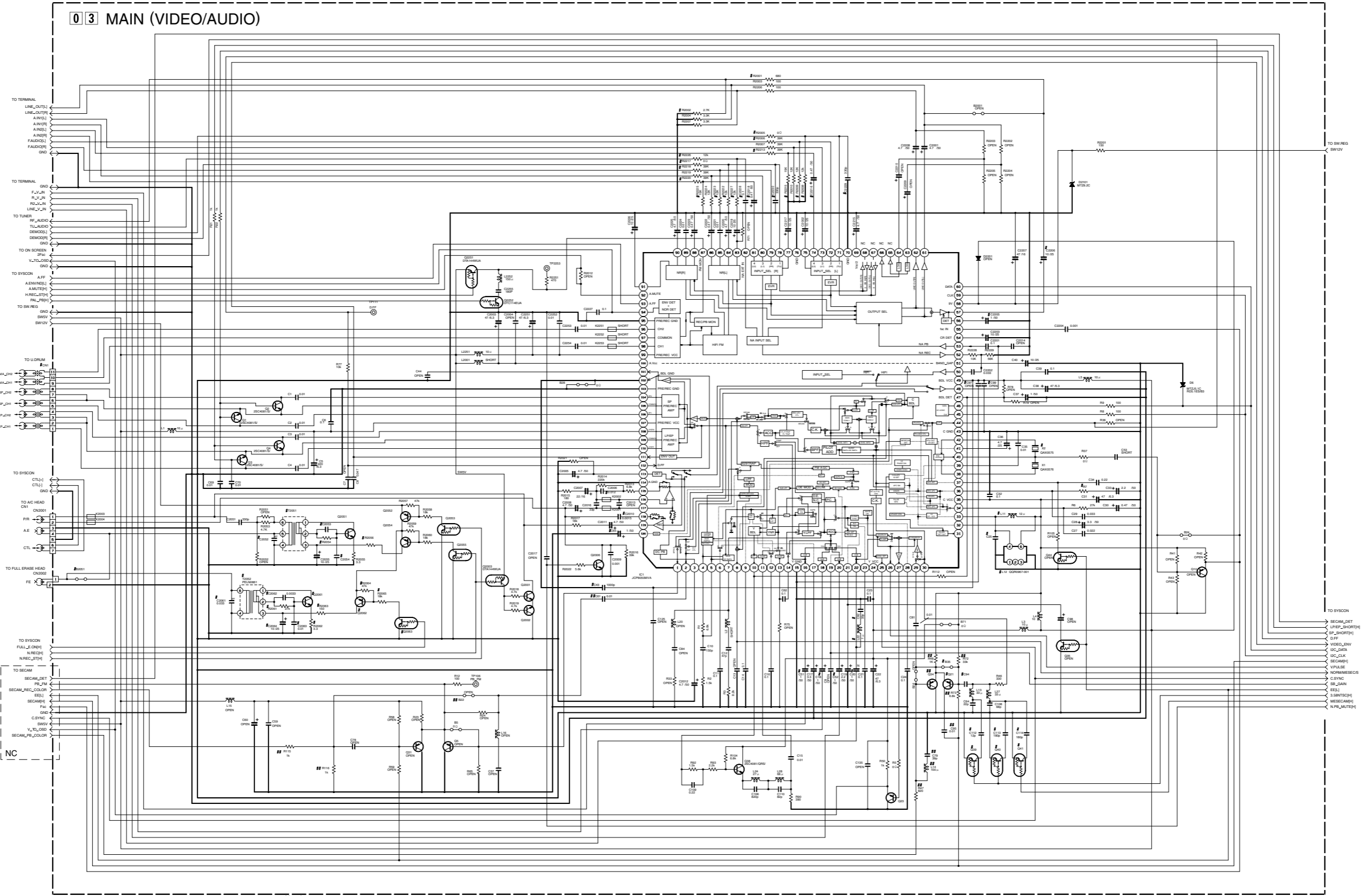
4.1 BOARD INTERCONNECTIONS



NO	NAME
93	LITHIUM BATTERY
91	R.PAUSE
92	SAT_CTL
58	DRUM MOTOR
57	CAP MDA
55	LOADING MOTOR
41	U.DRUM
38	ADV.JOG
28	MINI OPE
12	A/C HEAD
03	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

		AUDIO				VIDEO			
		O : Used X : Not used							
WITH CH+	R2005 R2008 R2217 R2222 C2229 C2230	WITH RCA	R2213 R2219 R2220 R2225 C2218 C2219	WITH A.DUB	B2051	C2001 C2002 C2003 C2054	T2051	T2052	
WITH CH-	X	WITH RCA R-IN	X	WITH RCA R-IN	X	15k 100 0.033 0.033 0.01	PEL1080 OF QDR1082-001	PEL1080 OF QDR1082-001	
	O	WITH RCA R-IN	O	WITH RCA R-IN	O	12k 82 0.082 0.0047 0.002	PEL1080 OF PEL10854 OF QDR1082-001	PEL1080 OF QDR1082-001	X
		WITH RCA R-IN	X	WITH RCA R-IN	X				
	R2006 R2009 R2016 R2020 C2010	WITH RCA F-IN	R2027	WITH RCA F-IN	C2010				
		WITH RCA F-IN	X	WITH RCA F-IN	X				

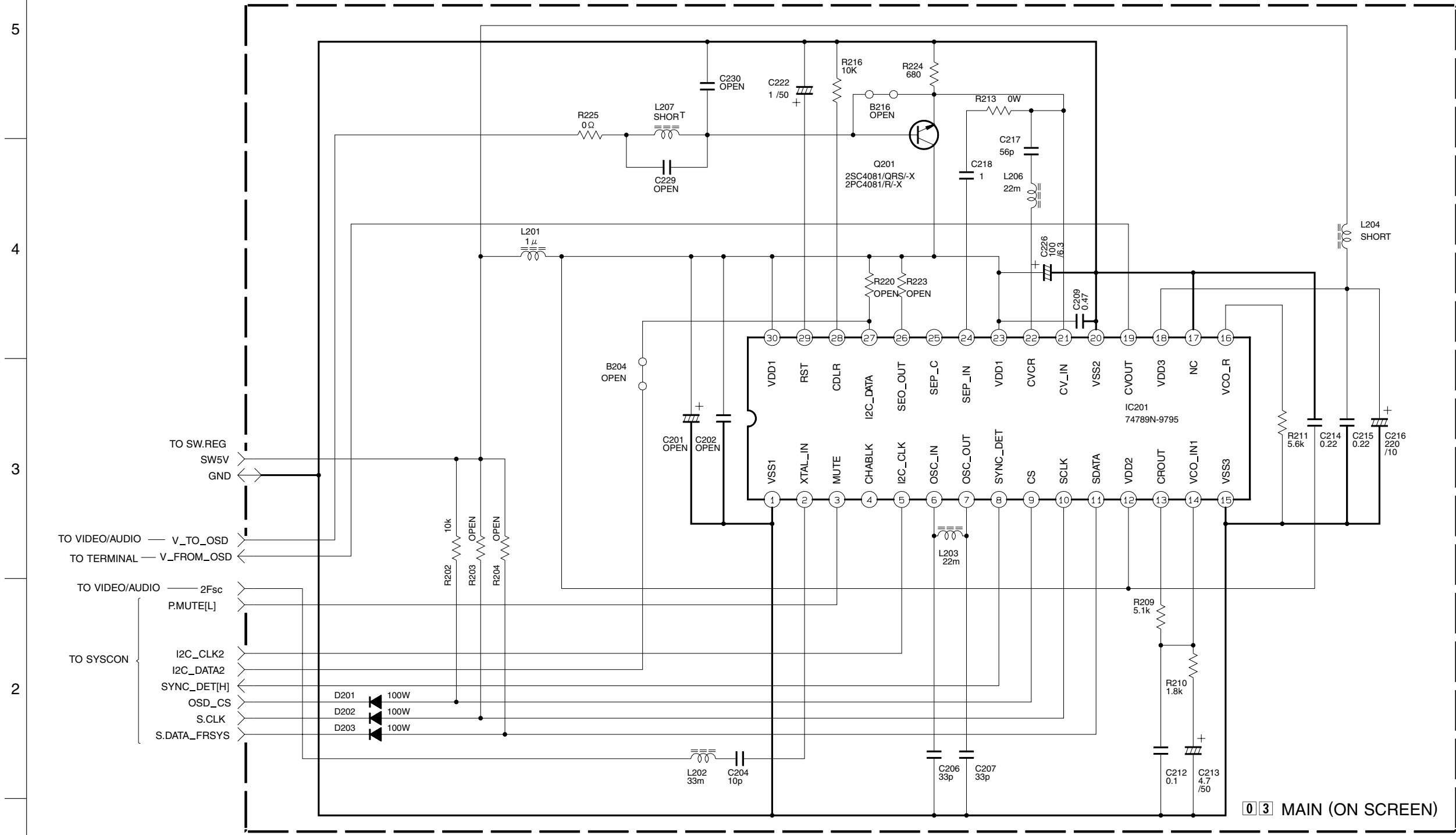
#DIFFERENCE TABLE

		VIDEO			
WITH CH+	C20	C51	C52	C18	
WITH CH-	NONPOLAR	X	X	X	
WITH F-IN	NONPOLAR	X	X	X	
WITH F-IN	NONPOLAR	X	X	X	
WITH F-IN	NONPOLAR	X	X	X	
WITH F-IN	NONPOLAR	X	X	X	
WITH F-IN	NONPOLAR	X	X	X	
WITH F-IN	NONPOLAR	X	X	X	

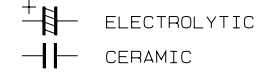
NOTES UNLESS OTHERWISE SPECIFIED:
 ALL NPN TRANSISTOR ARE 2SC4581(QRS) or 2SD1818A(QRS) or 2PC4081(R).
 ALL PNP TRANSISTOR ARE 2SA1576A(QR) or 2SB1218A(QR) or 2P A1576(R).
 ALL NPN DIGITAL TRANSISTOR ARE DTC144WU A or UN521E or PDTG144WU or RN1305.
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN P.F.
 + ELECTROLYTIC
 - CERAMIC
 - MYLAR
 - NON POLAR
 K2001-K2004 = NCR0403-003X

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.

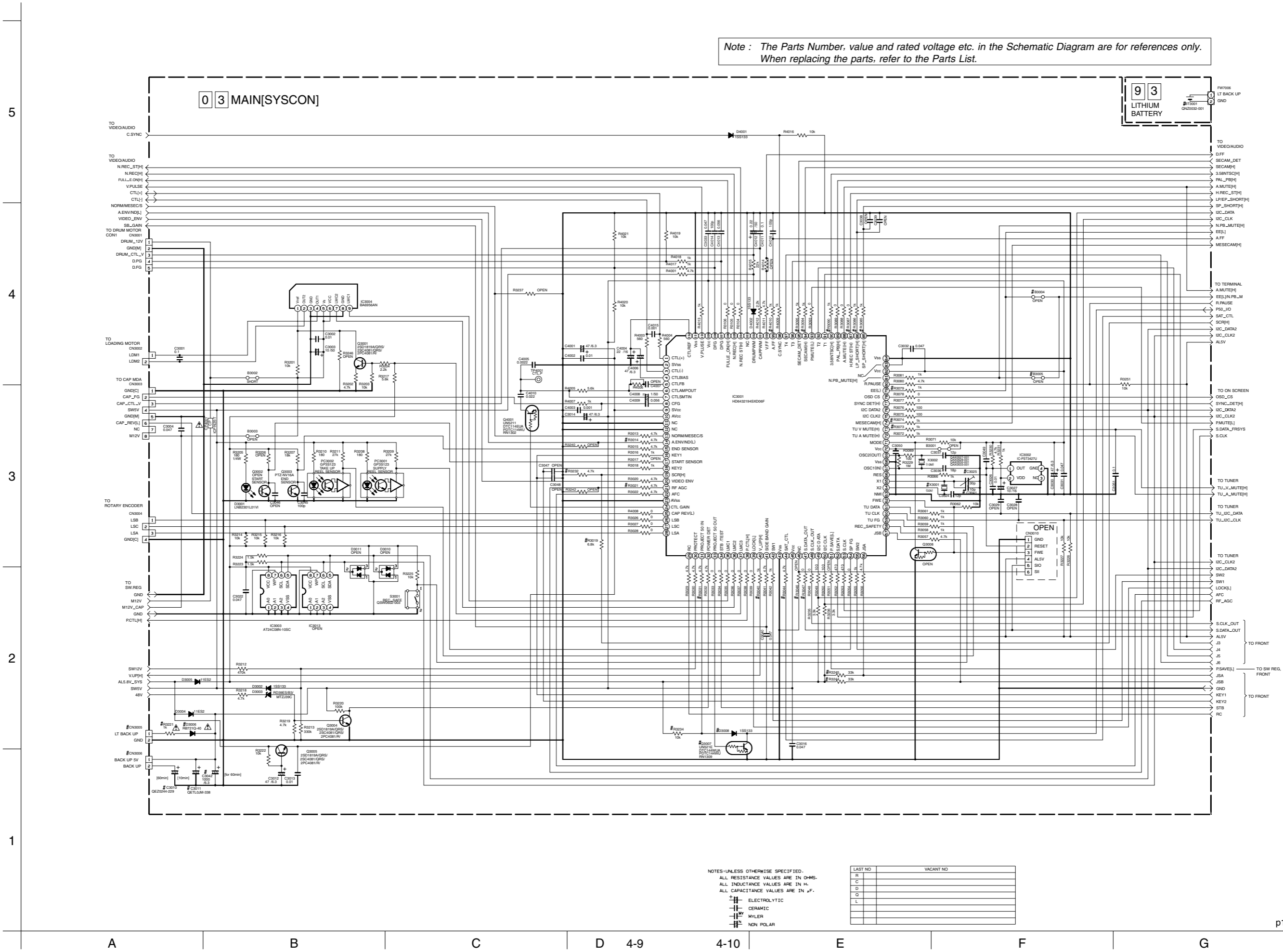


NOTES: UNLESS OTHERWISE SPECIFIED.
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN μ F.



4.4 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.



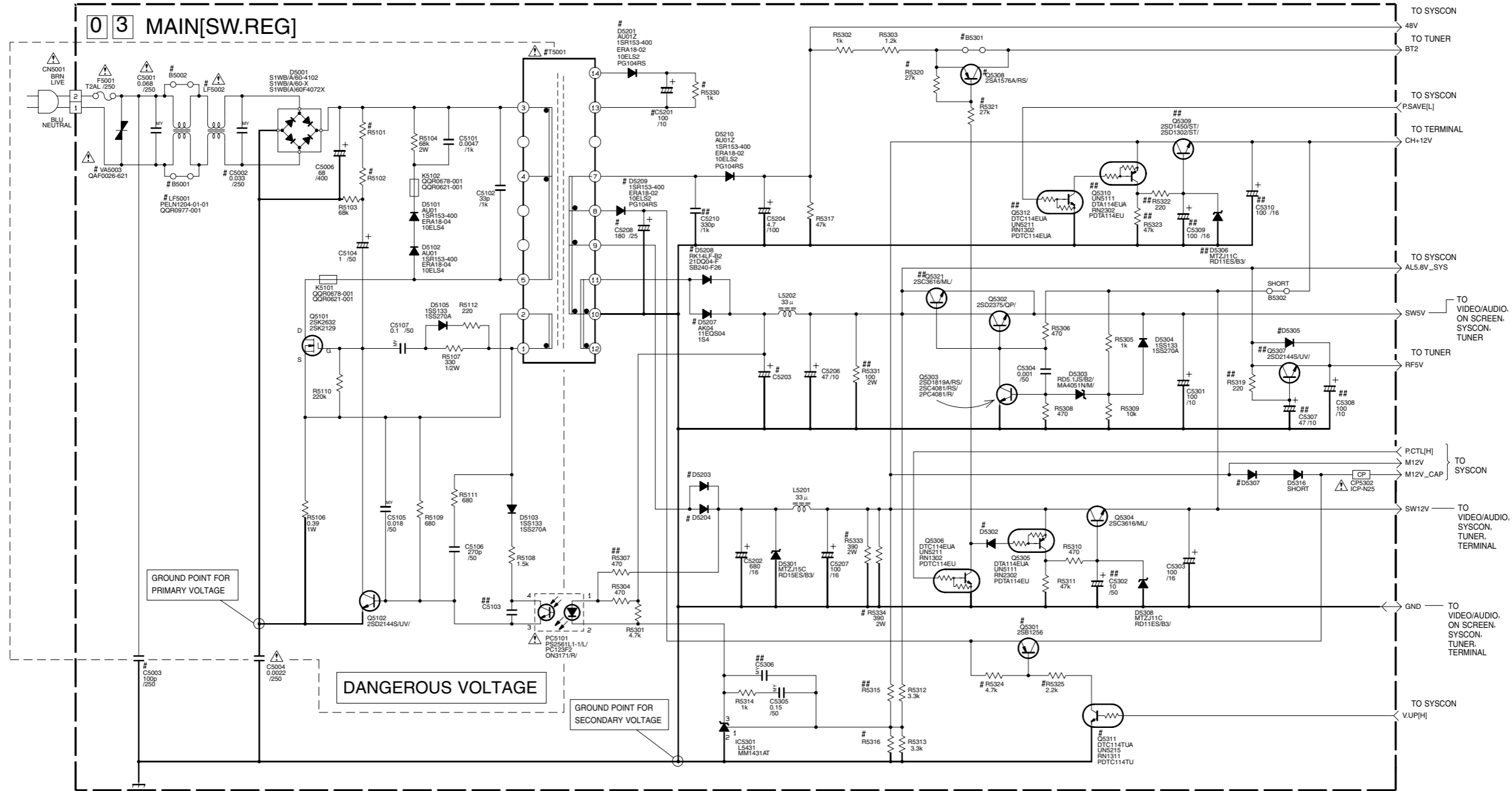
NOTES UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN P.F.

ELECTROLYTIC
 CERAMIC
 MYLAR
 NON POLAR

LAST NO.	VACANT NO.

4.5 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.



MARK ELEMENTS ARE NOT MOUNTED

DIFFERENCE TABLE 1

HIGH SPEED FF/REW		C5208	Q5311	D5307	C5201	D5203	T5001
		D5209	R5324		D5201	D5204	
		Q5301	R5325		R5330		
-YES-		YES	11ES2 ERA15-02 1A3G	YES	YES	QO50030-002 QO50031-002	
-NO-	AUTO	NO	SHORT	NO	AU012 10ELS2	QO50030-002 QO50031-002	
	OTHER					QO50083-001 QO50084-001	

DIFFERENCE TABLE 2

POWER SAVE		B5301	D5302	D5305	R5101	R5102	R5316	Q5308
				AK04	11EOS04	154		R5320
								R5321
-YES-		NO	1SS133 1SS270A	AK04	11EOS04 154	330k	12k	YES
-NO-		YES	SHORT	11ES2 ERA15-02 1A3G	220k	10k		NO

DIFFERENCE TABLE 3

		B5001	C5002	LF5001	LF5002
		B5002			
CE		NO	YES	YES	QO90978-001 QO90979-001 QO90980-001 QO90981-001
OTHER		YES	NO	NO	QO90982-001 QO90983-001 QO90984-001 QO90985-001

DIFFERENCE TABLE 4

		D5207	D5208	C5203
HIFI		NO	YES	1200/10
MONO		YES	NO	680/10

DIFFERENCE TABLE 5

		R5333	R5334
AUTO		YES	
OTHER		NO	

DIFFERENCE TABLE 6

		VA5003
JVC		NO
PH		YES

DIFFERENCE TABLE 7

		C5003
PH/75		YES
OTHER		NO

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

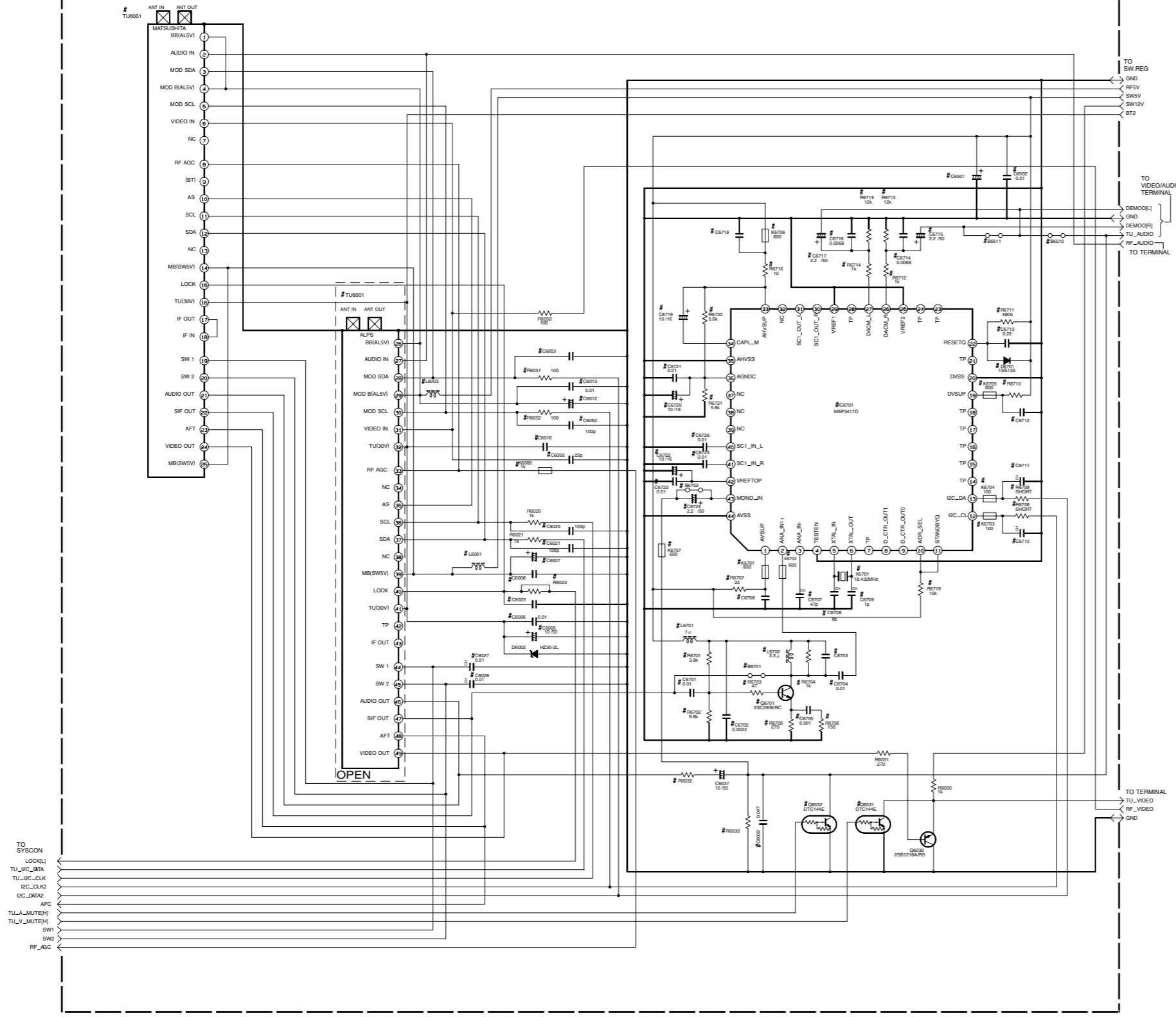
- + ELECTROLYTIC
- CERAMIC
- My MYLER
- N NON POLAR

4.6 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.

03 MAIN (TUNER)

5
4
3
2
1



DIFFERENCE TABLE

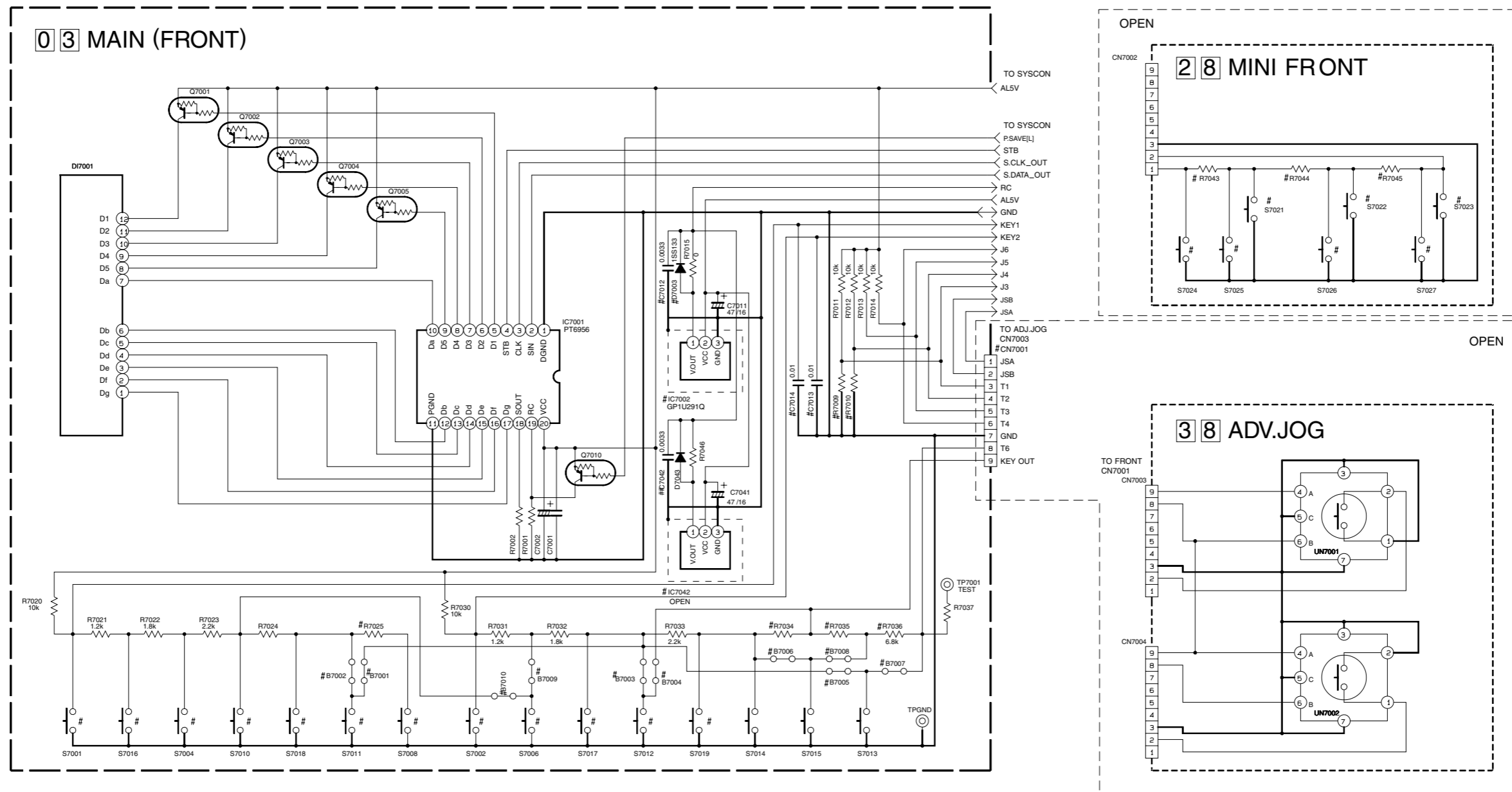
○ : Used
× : Not used

TUNER UNIT	TU30V	ELIEK						FRANCE MS						ASIA SYSTEM				ASIA 4SYSTEM	
		HF1		MONO		HF1		MONO		HF1		MONO		HF1		MONO			
		With Ch-	Without Ch-	With Ch-	Without Ch-	With Ch-	Without Ch-	With Ch-	Without Ch-	With Ch-	Without Ch-	With Ch-	Without Ch-	With Ch-	Without Ch-	With Ch-	Without Ch-		
RF CONVERTER		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
SW 5V		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
RF AGC		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
TUNER PLL		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
CENELEC SEC		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
AUDIO OUT		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
AUDIO MUTE		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
VIDEO MUTE		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
SET HF1 TUNER MONO		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
DEMOD																			
PRE AMP		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
MONO IN		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
AUDIO LO AD		○	○	×	×	×	×	×	×	○	○	×	×	×	×	×	×	×	

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) 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
x : Not used

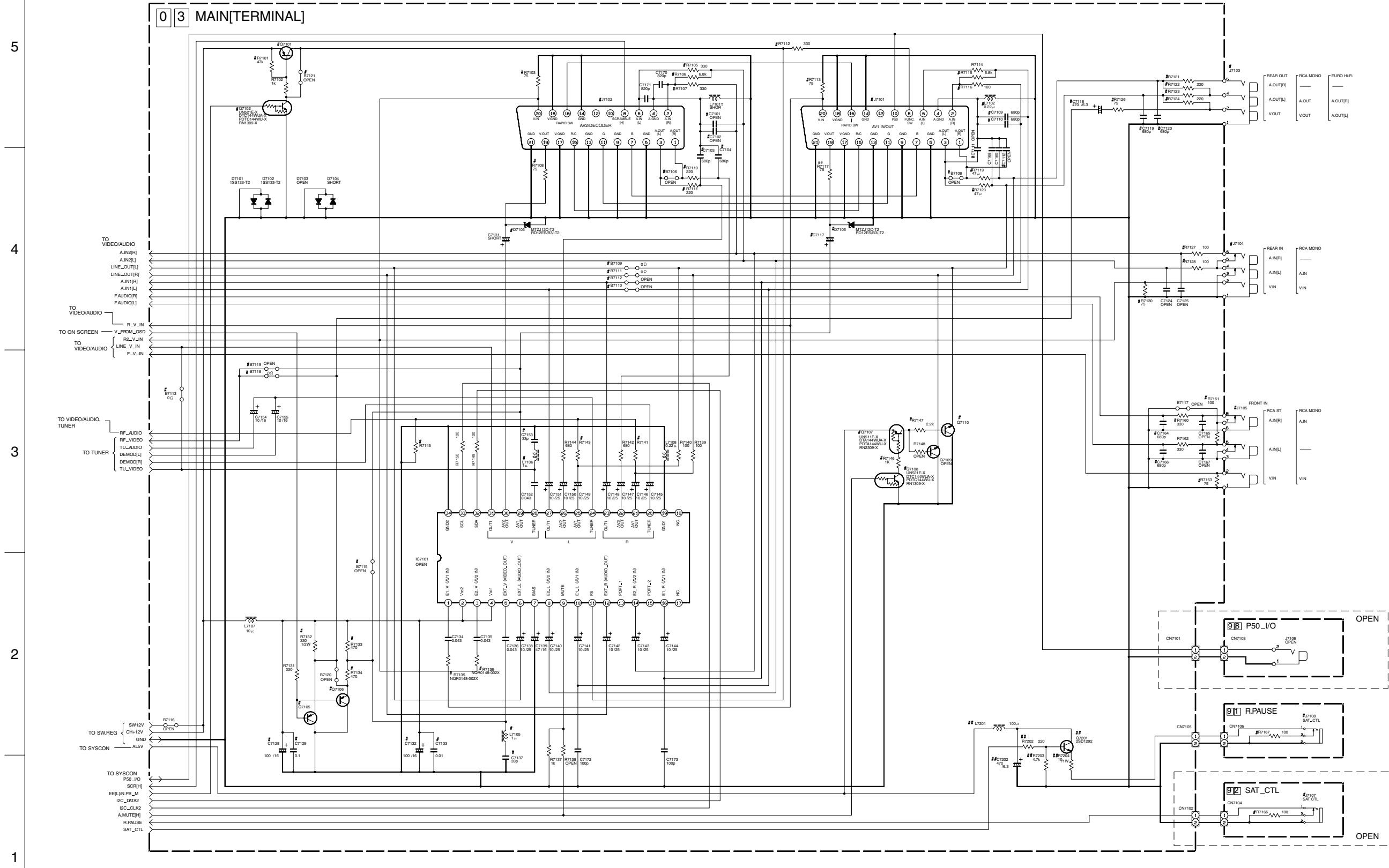
BRAND	TOOL	WORKING NUMBER	S7001	S7002	S7004	S7006	S7008	S7010	S7011	S7012	S7013	S7014	S7015	S7016	S7017	S7018	S7019	S7021 S7023	S7024 S7027	J/S	R7025	R7034	R7035 R7036	R7043 R7045	B7001	B7002	B7003	B7004	B7005 B7006	B7007	B7008	B7009	B7010
JVC	400HA	D1+.D15	STAND-BY	A.DUB	REC	PAUSE	STOREJECT	PLAY	---	E.PROG.	---	---	---	SAT.CTL.	---	---	---	---	---	adv	○	○	○	×	×	×	○	×	×	×	○	×	×
	400H	D1.D11.D12	POWER	CH -	REC	PAUSE	STOREJECT	REC LINK	---	PLAY	---	REW	FF	CH +	---	---	---	---	---	×	○	○	○	×	×	×	○	×	×	×	○	○	×
	360E	A1.A11.C1.D0+.D1-	STAND-BY	CH -	REC	PAUSE	STOREJECT	SAT.CTL.	---	PLAY	---	REW	FF	CH +	---	---	---	---	---	×	○	○	○	×	×	×	○	×	×	×	○	○	×

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

LAST NO	VACANT NO
R	
C	
D	
O	
L	

4.8 MAIN (TERMINAL) AND R.PAUSE 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.

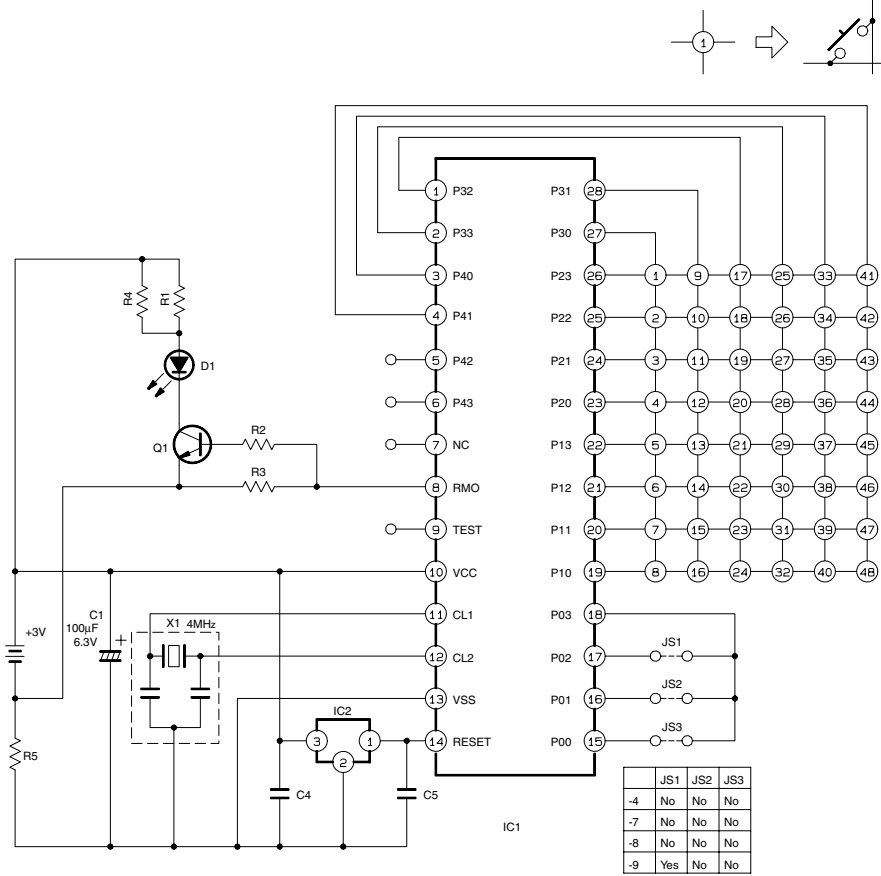


NOTES-UNLESS OTHERWISE SPECIFIED.
 ALL RESISTANCE VALUES ARE IN OHMS.
 ALL INDUCTANCE VALUES ARE IN H.
 ALL CAPACITANCE VALUES ARE IN pF.
 [Symbol] ELECTROLYTIC
 [Symbol] CERAMIC
 [Symbol] MYLER
 [Symbol] NON POLAR

4.9 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.

REMOTE CONTROLLER



	JS1	JS2	JS3
-4	No	No	No
-7	No	No	No
-8	No	No	No
-9	Yes	No	No

Key No.	Key Name
1	START+
2	1
3	4
4	STOP+
5	DATE+
6	PROG(CH)+
7	3
8	6
9	CANCEL
10	2
11	7
12	0
13	8
14	TIMER
15	5
16	9
17	PROG
18	Not used
19	Not used
20	PROG CHECK
21	-/-
22	SKIP
23	OPERATE
24	Not used
25	START-
26	TV/VCR
27	RE-VIEW
28	STOP-
29	DATE-
30	PROG(CH)-
31	DISPLAY
32	AUDIO/MUTE
33	MENU
34	REC
35	REW
36	PLAY
37	STOP
38	FF
39	PAUSE
40	OK/ENTER
41	<</TV VOL-
42	Not used
43	Not used
44	Not used
45	UP/TV PROG+
46	DOWN/TV PROG-
47	Not used
48	>>/TV VOL+
34+36	REC+PLAY
34+39	REC+PAUSE

LP20878-008B

5

4

3

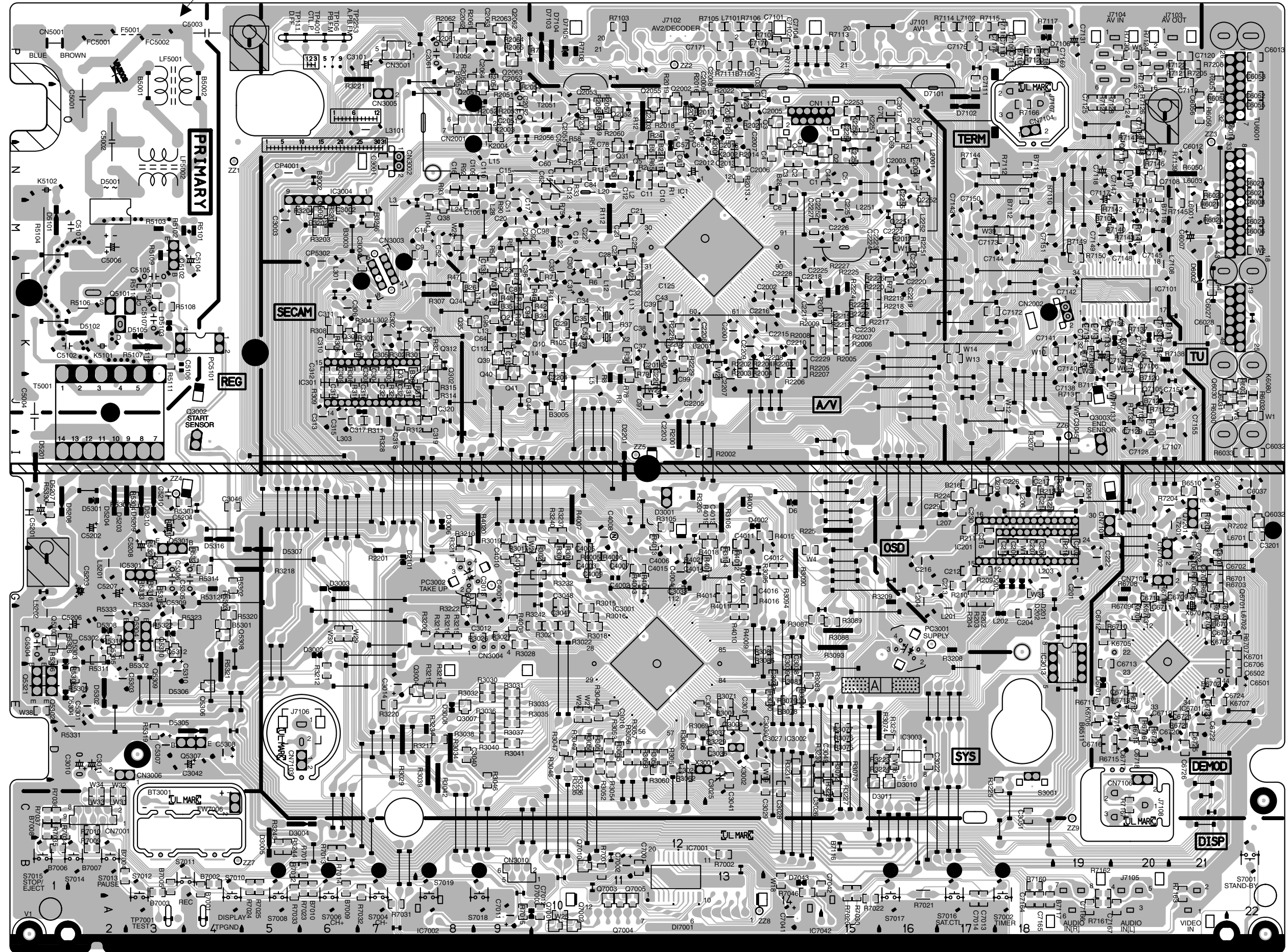
2

1

4.10 MAIN AND R.PAUSE CIRCUIT BOARDS

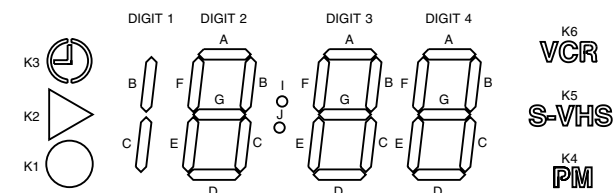
<03> MAIN
LPB10131-001D

DANGEROUS VOLTAGE



4.11 FDP GRID ASSIGNMENT AND ANODE CONNECTION

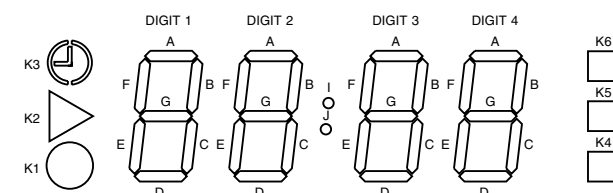
GRID ASSIGNMENT



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

GRID ASSIGNMENT

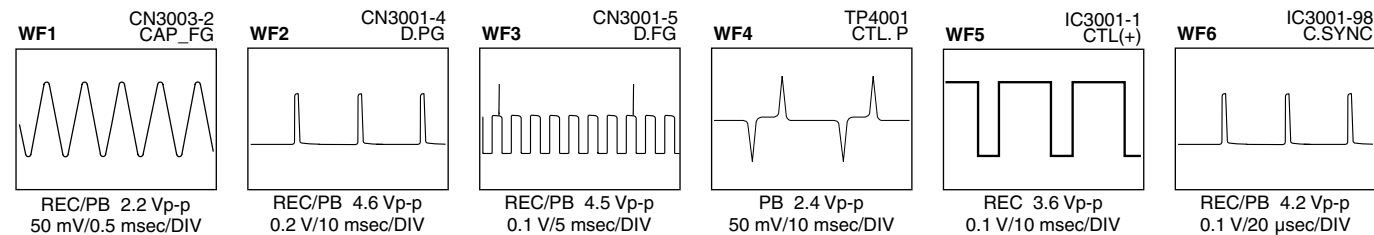


ANODE CONNECTION

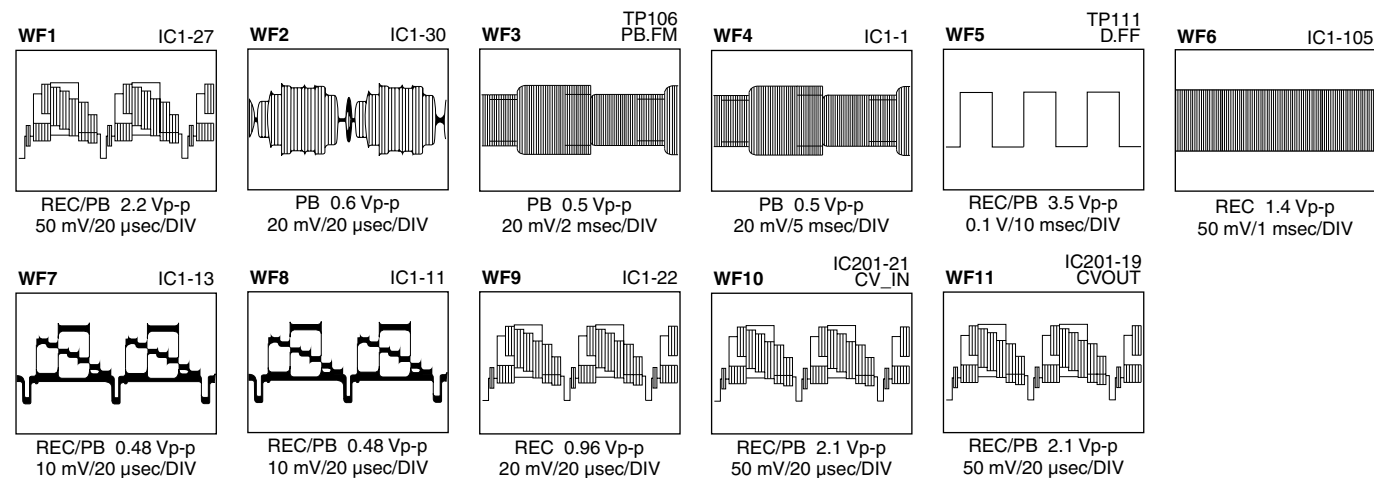
No.	CONNECTION
1	CATHODE 1G, 2G, 3G, 4G, I, J
2	CATHODE 1F, 2F, 3F, 4F, K6
3	CATHODE 1E, 2E, 3E, 4E, K1
4	CATHODE 1D, 2D, 3D, 4D, K4
5	CATHODE 1C, 2C, 3C, 4C, K5
6	CATHODE 1B, 2B, 3B, 4B, K2
7	CATHODE 1A, 2A, 3A, 4A, K3
8	COMMON ANODE K3, K2, K5, K4, K1, K6, I, J
9	COMMON ANODE DIGIT4
10	COMMON ANODE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

4.12 WAVEFORMS

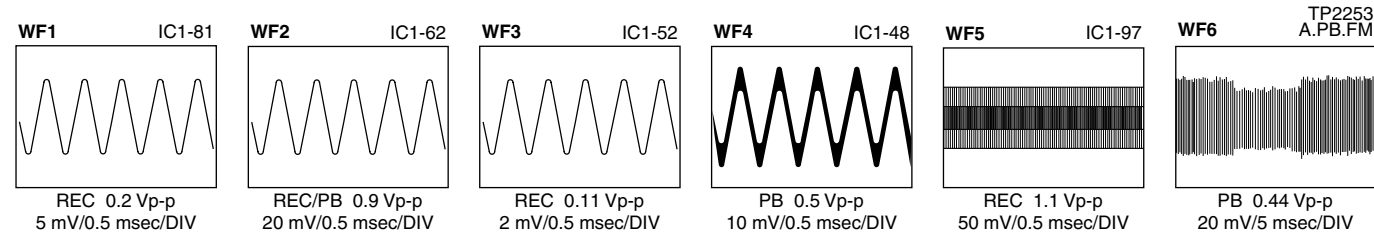
< SYSCON >



< VIDEO >



< AUDIO >



4.13 VOLTAGE CHARTS

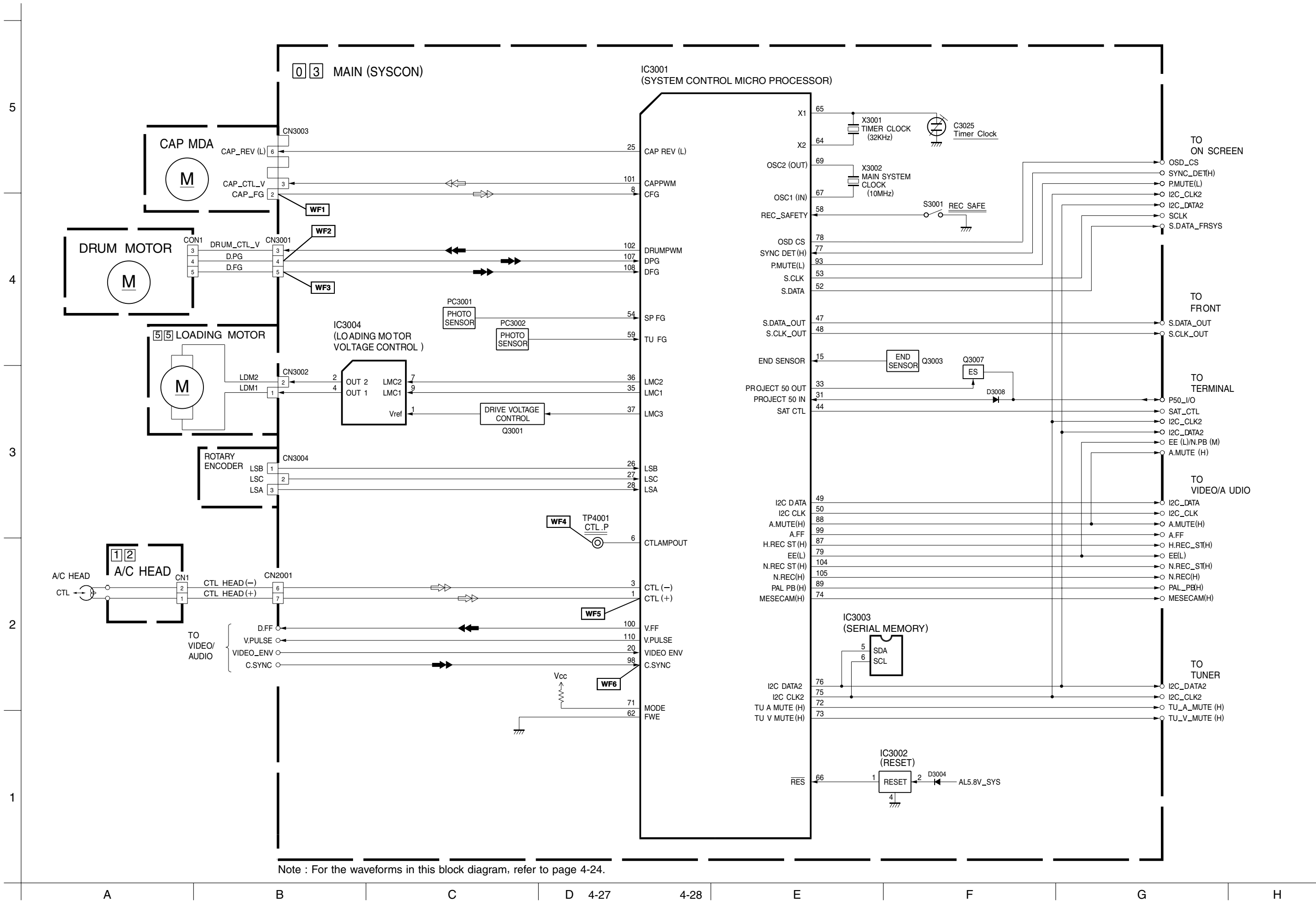
<MAIN>															<R.PAUSE>		
MODE PIN NO.	REC	PLAY	MODE PIN NO.	REC	PLAY	MODE PIN NO.	REC	PLAY	MODE PIN NO.	REC	PLAY	MODE PIN NO.	REC	PLAY	MODE PIN NO.	REC	PLAY
IC1			101	0	0	50	4.8	4.8	10	3.6	3.9	6	2.4	2.4	CN7106	-	-
1	1.7	2.1	102	0	0	51	4.9	4.9	11	3.6	3.9	7	2.4	2.4			
2	2.9	2.9	103	0	0	52	0.8	0.8	12	4.5	4.5	8	2.4	2.4			
3	2.6	2.6	104	2.5	2.5	53	4.5	4.5	13	4.5	4.5	9	2.8	2.5			
4	1.9	1.4	105	2.4	2.4	54	-	-	14	2.5	2.7	10	2.8	2.5			
5	1.9	1.4	106	2.4	2.4	55	0	0	15	2.5	2.7	11	2.8	2.5			
6	2.4	2.1	107	5.4	5.4	56	0	0	16	0	0				CN2001		
7	1.5	0.7	108	0	0	57	0	0	17	0.1	0.1	1	0	0			
8	0	0	109	0	0	58	4.9	4.9	18	0.1	0.1	2	0	0			
9	2.6	2.9	110	5.0	0	59	-	-	19	4.9	5.3	3	0	0			
10	2.4	2.4	111	0	3.4	60	0	4.9	20	0	0	4	0	0			
11	3.1	3.1	112	2.5	2.5	61	0	4.9	21	0.1	0.1	5	0	0			
12	2.8	2.6	113	0.5	0.5	62	0	0	22	4.7	5.1	6	2.2	2.4			
13	3.1	3.1	114	0	0	63	0	0	23	0	0	7	2.4	2.4			
14	2.3	2.3	115	2.6	2.6	64	-	-	24	0	0				CN2002		
15	0	0	116	2.5	2.5	65	-	-	25	0	0	1	0	0			
16	2.8	2.8	117	2.5	2.5	66	-	-	26	0	0	2	0	0			
17	1.5	1.5	118	0	0	67	-	-	27	0	0				CN3001		
18	2.8	2.8	119	2.5	2.5	68	0	0	28	0	0	1	11.7	11.7			
19	0	2.6	120	4.7	4.9	69	-	-	29	0	0	2	0	0			
20	2.8	2.8	IC201			70	4.9	4.9	30	2.5	2.5	3	1.4	1.4			
21	2.0	1.4	1	0	0	71	4.9	4.9	31	2.5	2.5	4	0.1	0.1			
22	2.8	2.8	2	2.6	2.8	72	4.9	4.9	32	0	0	5	1.5	1.5			
23	2.8	2.8	3	4.9	4.9	73	4.9	4.9	33	4.9	5.3				CN3002		
24	5.1	5.1	4	0	0	74	0	0	34	4.0	4.4	1	0.2	0.2			
25	0.4	2.8	5	4.5	4.5	75	4.5	4.5	35	0	0	2	0.2	0.2			
26	0	0	6	2.5	2.5	76	4.6	4.6	36	2.5	2.5				CN3003		
27	2.3	2.3	7	2.5	2.7	77	5.4	5.4	37	0	0	1	0	0			
28	2.3	2.3	8	5.4	5.4	78	3.1	3.1	38	0	0	2	2.5	2.7			
29	1.9	1.9	9	3.1	3.1	79	0	4.9	39	0	0	3	2.5	2.5			
30	2.1	2.1	10	4.5	4.5	80	0	0	40	2.5	2.5	4	5.4	5.4			
31	0	0	11	0.7	0.7	81	0	0	41	2.5	2.5	5	0	0			
32	2.5	2.5	12	5.4	5.4	82	4.9	4.9	42	2.6	2.6	6	4.9	4.9			
33	5.0	5.0	13	2.8	3.0	83	0	0	43	2.5	2.5	7	-	-			
34	2.7	2.3	14	2.8	3.0	84	0	0	44	0	0	8	11.7	11.7			
35	5.4	5.4	15	0	0	85	0	0							CN3004		
36	2.6	2.6	16	1.2	1.2	86	4.6	4.6	1	0	0	1	4.9	4.9			
37	2.3	2.3	17	0	0	87	4.9	4.9	2	0	0	2	4.9	4.9			
38	-	-	18	5.4	5.4	88	0	0	3	4.9	4.9	3	0	0			
39	1.2	1.2	19	2.3	2.3	89	4.9	4.9	4	4.9	4.9	4	0	0			
40	-	-	20	0	0	90	0	0	5	-	-				CN7105	-	-
41	2.6	2.6	21	2.3	2.3	91	0	0	6	-	-						
42	-	-	22	0.3	0.5	92	0	0	7	-	-						
43	0	0	23	5.4	5.4	93	4.9	4.9	8	-	-						
44	2.2	2.2	24	2.9	3.2	94	0	0	9	-	-						
45	4.8	4.8	25	2.5	2.7	95	0	0	10	-	-						
46	4.7	4.7	26	5.4	5.4	96	0	0	11	0	0						
47	2.9	2.9	27	4.6	4.6	97	0	0	12	-	-						
48	2.6	2.6	28	3.6	4.0	98	0.3	0.3	13	-	-						
49	5.1	5.1	29	5.4	5.4	99	0	2.5	14	-	-						
50	2.5	2.5	30	5.4	5.4	100	2.5	2.5	15	-	-						
51	2.8	2.8	IC3001			101	2.5	2.7	16	-	-						
52	2.4	2.4	1	2.7	2.4	102	1.4	1.4	17	-	-						
53	2.3	2.3	2	0	0	103	0	0	18	1.0	4.9						
54	2.4	2.4	3	0	2.4	104	4.9	0	19	2.2	2.2						
55	2.2	2.2	4	2.4	2.4	105	4.9	0	20	4.9	4.9						
56	0.4	0.4	5	0	0	106	4.9	0									
57	2.4	2.4	6	2.4	2.4	107	0.1	0.1	1	4.9	4.9						
58	8.2	8.2	7	2.4	0	108	1.5	1.5	2	4.9	4.9						
59	4.8	4.8	8	2.4	2.4	109	4.9	4.9	3	0	0						
60	4.7	4.7	9	4.9	4.9	110	0	0							CN1		
61	4.2	4.2	10	4.9	4.9	111	0	0	1	0	0						
62	4.2	4.2	11	0	0	112	2.4	2.4	2	0	0						
63	2.4	2.4	12	0	0	IC3002			3	0	0						
64	2.3	2.3	13	0	0	1	4.9	4.9	4	0	0						
65	1.8	1.8	14	0	1.8	2	4.9	4.9									
66	3.1	3.1	15	4.7	4.7	3	0	0									
67	4.2	4.2	16	4.9	4.9	4	0	0									
68	4.2	4.2	17	0	0.3	IC3003											
69	2.4	2.4	18	4.9	4.9	1	0	0									
70	0	0	19	0	0	2	0	0									
71	3.4	3.4	20	0	3.4	3	0	0									
72	3.4	3.4	21	4.0	4.3	4	0	0									
73	0.2	0.2	22	4.6	4.3	5	4.6	4.6									
74	2.4	2.4	23	0	0	6	4.5	4.5									
75	2.8	2.8	24	4.8	4.8	7	0	0									
76	0	0	25	0	4.9	8	4.9	4.9									
77	2.8	2.8	26	4.9	4.9	IC3004											
78	3.4	3.4	27	4.9	4.9	1	11.7	11.7									
79	3.4	3.4	28	0	0	2	0.2	0.2									
80	0.2	0.2	29	4.9	4.9	3	0	0									
81	2.4	2.4	30	4.2	4.2	4	0.2	0.2									
82	0.8	0	31	4.9	4.9	5	11.7	11.7									
83	0	0	32	0	0	6	11.7	11.7									
84	2.4	2.4	33	0	0	7	0	0									
85	2.4	0	34	4.8	4.8	8	0	0									
86	2.3	2.3	35	0	0	9	0	0									
87	1.7	1.9	36	0	0	IC5301											
88	2.3	2.3	37	0	0	1	2.5	2.5									
89	2.4	2.4	38	4.8	4.8	2	0	0									
90	2.4	2.4	39	0	0	3	4.4	4.4									
91	0.1	0.1	40	0	0	IC6701											
92	0	0	41	0	2.7	1	4.3	4.6									
93	0	2.2	42	0	0	2	1.5	1.5									
94	0	1.8	43	0	0	3	1.5	1.5									
95	0	0	44	0	0	4	0	0									
96	2.5	2.5	45	4.9	4.9	5	-	-									
97	2.8	2.5	46	0	0	6	-	-									
98	2.5	2.5	47	0	0	7	0.1	0.1									
99	5.4	5.4	48	4.9	4.9	8	0	0									
100	5.0	0	49	4.7	4.7	9	0	0									

4.14 CPU PIN FUNCTION

<SYSCON IC3001>

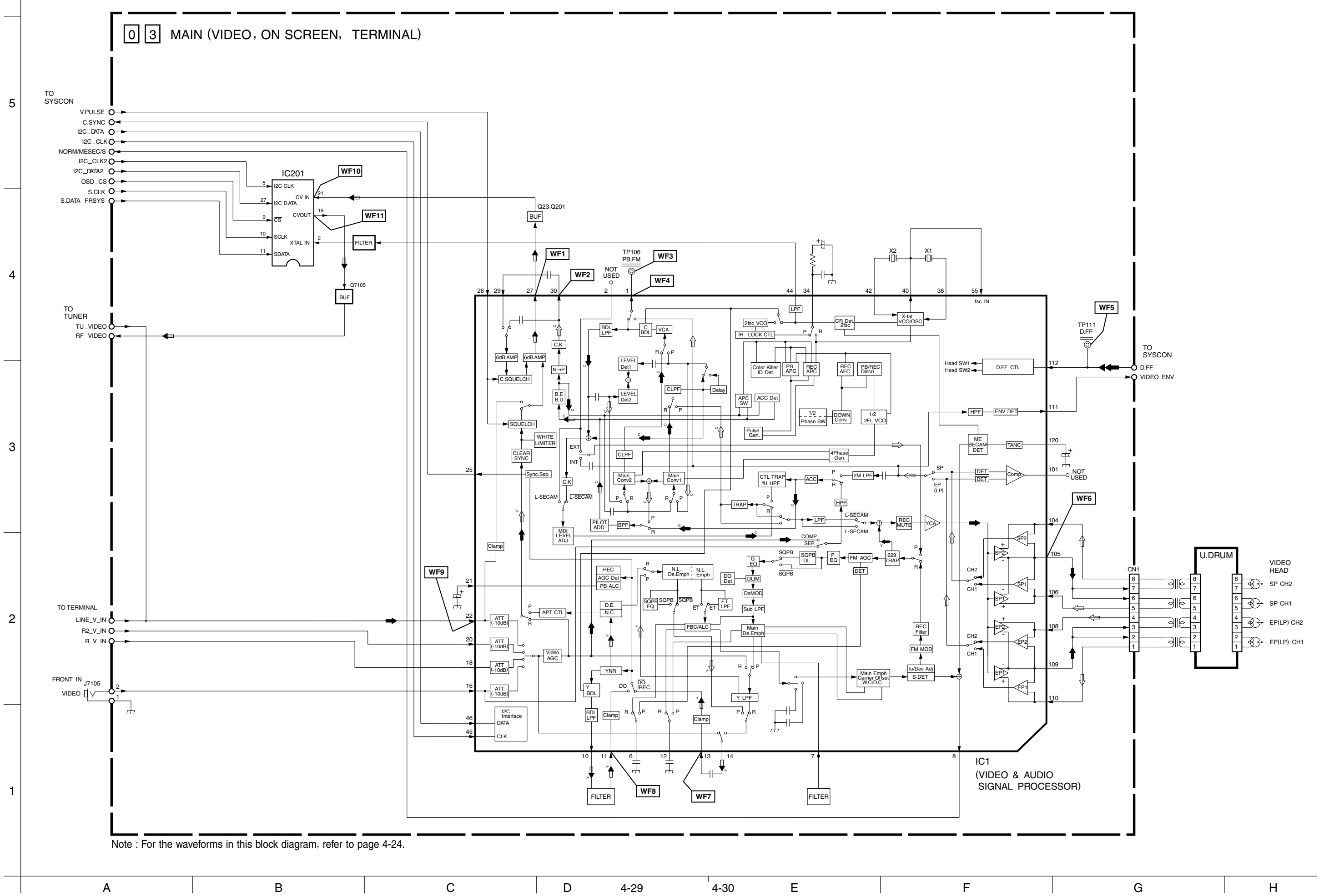
PIN NO.	LABEL	IN/OUT	FUNCTION
1	CTL(+)	IN/OUT	CTL(+)-SIGNAL
2	SVSS	-	GND
3	CTL(-)	IN/OUT	CTL(-)-SIGNAL
4	CTLBIA	-	CTL BIAS VOLTAGE
5	CTLFB	IN	CTL PULSE FEEDBACK [HR-J780EU]
6	CTLAMP	OUT	CTL PULSE OUTPUT
7	CTLSMTIN	IN	CTL PULSE INPUT
8	CFG	IN	CAPSTAN FG PULSE INPUT
9	SVCC	-	SYSTEM POWER
10	AVCC	-	SYSTEM POWER FOR ANALOG CIRCUIT
11	NC	-	NC
12	NC		

4.15 SYSTEM CONTROL BLOCK DIAGRAM



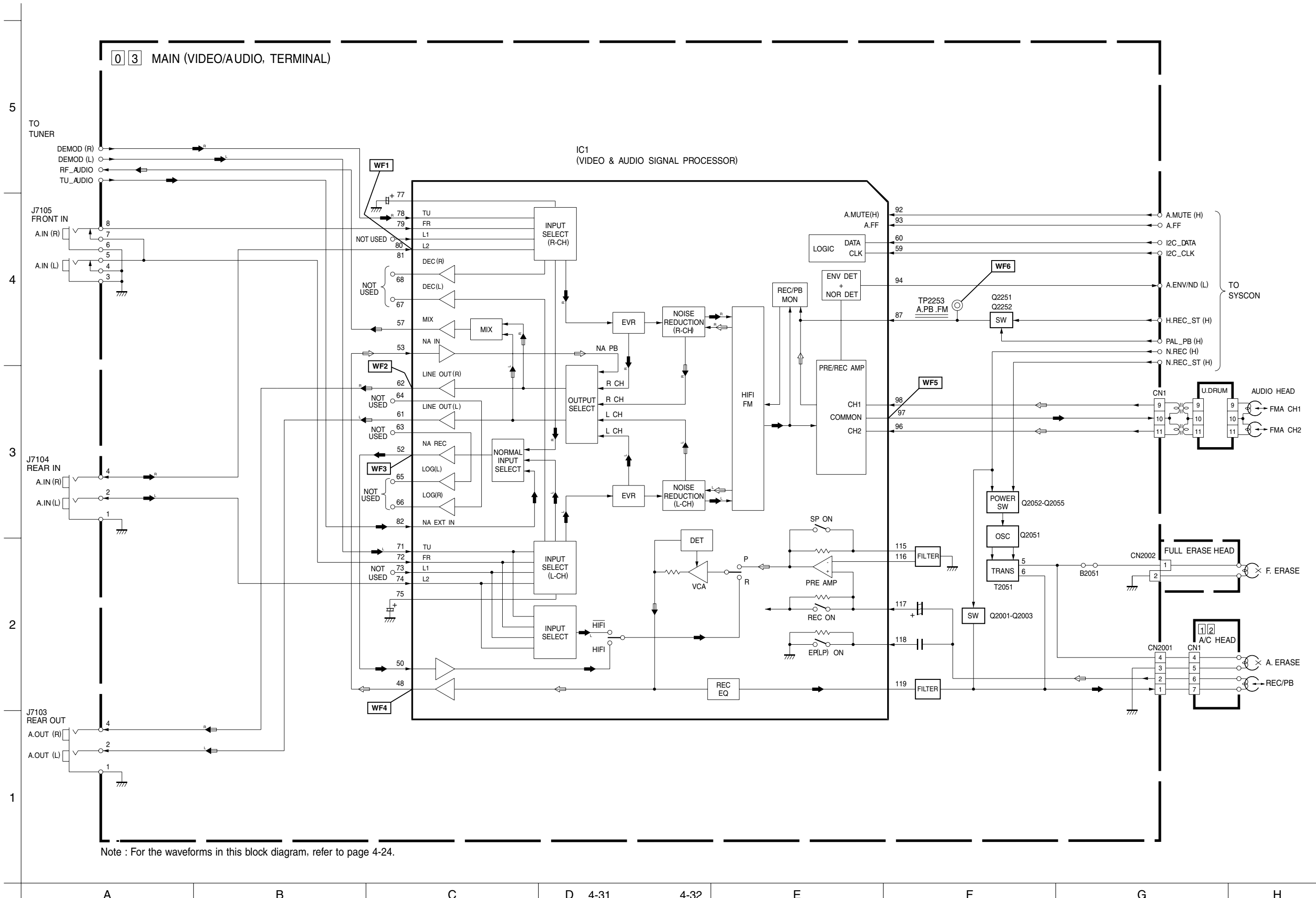
Note : For the waveforms in this block diagram, refer to page 4-24.

4.16 VIDEO BLOCK DIAGRAM



Note : For the waveforms in this block diagram, refer to page 4-24.

4.17 AUDIO BLOCK DIAGRAM



Note : For the waveforms in this block diagram, refer to page 4-24.