

Service Manual

Video Cassette Recorder

ALL K60-MECHA (Hi-Fi/MONO)

Model: (SECAM MODELS)

DV-K813S / K413S / K213S Series

DV-K823S / K423S / K223S Series

DV-K843S / K443S / K243S Series

DV-K863S / K463S / K263S Series

DV-K873S / K473S / K273S Series

DV-K893S / K493S / K293S Series

DV-K9A3S / K4A3S Series



DV-K813S



DV-K833S



DV-K863S



DV-K893S



F2GHA0

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SAFETY&PRECAUTIONS

SAFETY CHECK AFTER SERVING

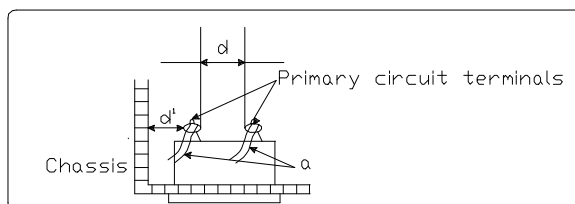
Examine the area surrounding the repaired location for damage or deterioration. Observe that screw, parts and wires have been returned to original positions. Afterwards, perform the following tests and conform the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

Confirm the specified insulation resistance between power cord plug prong and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is greater than values given in table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input output terminals, microphone jack, ear phone jacks, etc.) is greater than values given table 1.



3. Clearance distance

When replacing primary circuit component, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table below.

Rating for selected areas

AC Line Voltage	Region	Insulation Resistance	Dielectric Strength	Clearance Distance(d),(d')
100V	Japan	$\geq 1\text{M}\Omega/500\text{V DC}$	1kV AC 1min.	≥ 3
110 to 130V	USA & Canada	-	900V AC 1min.	≥ 3.2
* 110 to 130V 200 to 240V	Europe Australia Latin America	$\geq 10\text{M}\Omega/500\text{V DC}$	4kV AC 1min.	$\geq 6(d)$ $\geq 8(d')$ (a :Power cord)

* : Class model only

NOTE

This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality

4. Leakage current test

Confirm specified or lower leakage current between B(earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input output terminals, microphone jacks, earphone jacks, etc.)

Measuring method:(Power ON) Insert load Z between B(earth ground, power cord plug prongs) and exposed accessible parts. Use on AC voltmeter to measure across both terminals of load Z. See figure2 and following table.

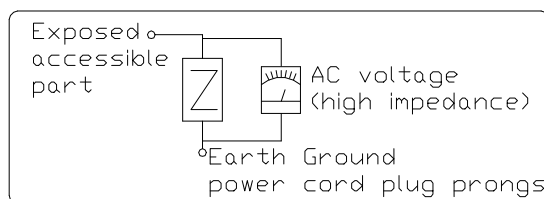


Fig.2

Leakage current ratings for selected are as

AC Line Voltage	Region	Load Z	Leakage Current(<i>i</i>)	Clearance Distance(<i>d</i>),(<i>d</i>)
100V	Japan	 1K Ω	$i \leq 1\text{mA}_{\text{rms}}$	Exposed accessible parts
110 to 130V	USA & Canada	 15k μF 1K Ω	$i \leq 0.5\text{mA}_{\text{rms}}$	Exposed accessible parts
110 to 130V 200 to 240V	Europe Australia	 2K Ω	$i \leq 0.7\text{mA}_{\text{peak}}$ $i \leq 2\text{mA}_{\text{dc}}$	Antenna earth terminals
		 50K Ω	$i \leq 0.7\text{mA}_{\text{peak}}$ $i \leq 1\text{mA}_{\text{dc}}$	Other terminals

NOTE

This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

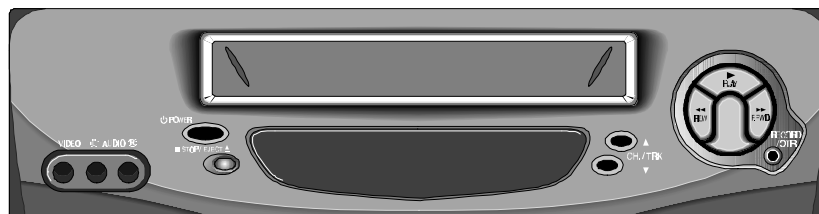
EXTERNAL VIEWS

1. FRONT VIEWS FUNCTION

DV-K813S FRONT VIEW



DV-K823S FRONT VIEW



DV-K833S FRONT VIEW



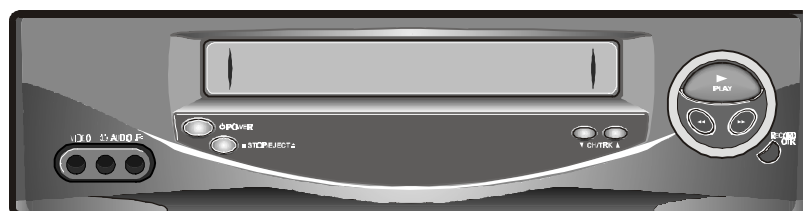
DV-K843S FRONT VIEW



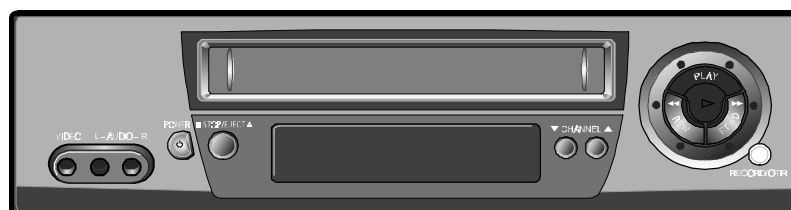
DV-K863S FRONT VIEW



DV-K873S FRONT VIEW



DV-K893S FRONT VIEW



DV-K9A3S FRONT VIEW

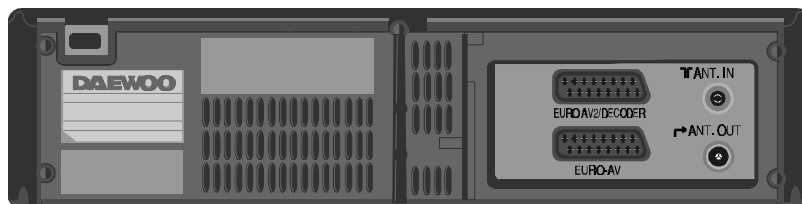


POWER
STOP / EJECT
RECORD
FRONT VIDEO/AUDIO INPUT JACK

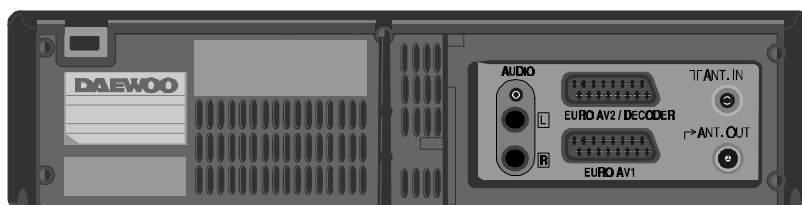
REWIND / REVIEW
FAST FORWARD / CUE
PLAY BACK
CHANNEL UP / DOWN

2. REAR VIEWS FUNCTION

MONO 2 SCART TYPE REAR VIEW



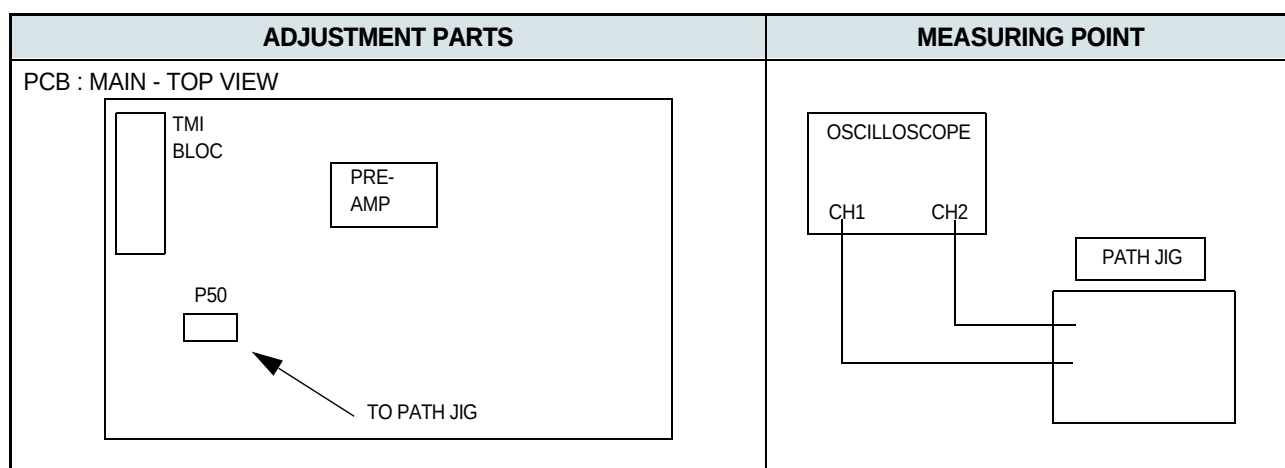
HI-FI 2 SCART TYPE REAR VIEW



ELECTRICAL ADJUSTMENT

1. PLAYBACK PHASE

ITEM	MODE	ADJUSTMENT POINT	CHECK POINT	TEST EQUIPMENT	TEST TAPE	INPUT SIGNAL
6.5H ADJUSTMENT	PLAY	[REC] BUTTON	PIN 4 & PIN 5 OF P504	OSCILLOSCOPE	DP-2	NO SIGNAL



ADJUSTMENT PROCEDURE

1. Play back the test tape. (DP-2)
2. Set the oscilloscope to the CHOP mode. Connect CH1 to the SW PULSE (PIN 4 of P504)
3. Connect CH2 to the ENVE signal (PIN5 of P504)
4. Insert PATH JIG and press "REC" button on the remote control.
5. Check the position of the V-sync from the rising edge of the SW pulse.
(Standard : $6.5H \pm 0.5H$)

SPECIFICATIONS

GENERAL	
Power Requirement Power Consumption Temperature	AC 230V, 50Hz Max. 17W (in REC mode) 5×C ~ 35×C (Operating) -20×C ~ 60×C
Operating position Dimensions (W x H x D) Weight Format Tape Width Tape Speed	Horizontal only 360 x 90 x 288 (mm) Approx. 3.85 Kg VHS standard 12.65mm (SP) : 23.39mm/sec (LP) : 11.70mm/sec
Maximum Recording Time with full-size cassette	(SP) :240min, with E-240 video cassette (LP) :480min, with E-240 video cassette
VIDEO	
Signal system Recording system	PAL colour and CCIR monochrome signals, 625 lines/50 fields Rotary two-head helical scan with a slant double-azimuth combination video head
Input Output Signal-to-Noise ratio	1.0Vp-p, 75ohms, unbalanced 1.0Vp-p, 75ohms, unbalanced 45dB (Rhode & Schwarz noise meter) with NETTETE IMAGE control at center position
Horizontal resolution	240 lines with NETTETE IMAGE control at center position
AUDIO	
Recording system Input Output	Longitudinal track -8dBm, (CENELEC standard), more than 47 k-ohms, unbalanced -6dBm, (CENELEC standard), less than 1k-ohms, unbalanced(100k-ohms, load)
Frequency Range Signal to Noise Ratio Audio Distortion	100Hz to 8,000Hz More than 38dB Less than 3% (SP)
TUNER	
Tuning system RF Output	Voltage synthesized tuner Programmable V/S 99CH (Hyper band) UHF channel 21~69 (52)
TIMER	
Memory programmable Back up time Clock exactness	99 CH Less than 1 Min. In accordance with the exactness of power supply frequency (50Hz)
ACCESSORIES	
Provided Accessories	Remote control unit, RF Cable, Battery

* Design and specification can be subjected to change without notice.

CHANNEL COVERAGE

SYSTEM	PAL, SECAM-B/G, PAL-I/I PAL, SECAM-B/G, D/K, HYPER BAND
CHANNEL	VHF Ch 2~12 UHF Ch 21~69 CATV Ch X,Y,Z S1~S41

INPUT/OUTPUT JACK TYPE

Model	EUROPE
Jack Type	SCART Type

VOLTAGE CHART

SECAM.L IC (IC361, LA7358M)

PIN NO.	REC	PB
1	2.5	2.5
2	2	2
3	4	4
4	-	-
5	0	0
6	3	3
7	0	0
8	0	0
9	2.6	2.6
10	2.6	2.6
11	2.4	2.4
12	2.6	0
13	4.4	4.4
14	2.6	2.6
15	3	2
16	2.8	2.8
17	0	5.1
18	0	2.6
19	2.1	2.1
20	2.3	2.3
21	2.6	2.6
22	2.6	2.6
23	5	5
24	5	5
25	3	3
26	3	3
27	4.5	2.8
28	4.5	0.1
29	-	-
30	-	-

PDC/VPS IC (IC151, LC74793)

PIN NO.	REC	PB
1	0	0
2	2.64	2.68
3	2.68	2.72
4	0	0
5	0	0
6	3.7	3.7
7	3.9	3.9
8	4.98	5.12
9	0	4.74
10	0	0
11	1.63	3.18
12	1.63	3.18
13	0.82	1.35
14	0.01	0.01
15	5.09	5.12
16	2.75	3.02
17	2.55	2.57
18	4.67	4.72
19	5.01	5.02
20	4.99	5.06
21	0	0
22	3.74	3.79
23	5.05	5.11
24	5.08	5.13

EEPROM (IC503, ATM24C16)

PIN NO.	REC	PB
1	0	0
2	0	0
3	0	0
4	0	0
5	3.9	3.9
6	3.9	4
7	0	0
8	5.24	5.29

MOTOR DRIVE IC (IC502, KA3082)

PIN NO.	REC	PB
1	0	0
2	0.55	0.55
3	8.78	0.88
4	6.24	6.24
5	0.01	0.01
6	0.01	0.01
7	12.12	11.74
8	12.12	11.74
9	0.91	0.91
10	0.55	0.55

VOLTAGE CHART

A/V ICHIP IC (IC301, HA118517F, HITACHI SHRINK VERSION)

PIN NO.	REC	PB	PIN NO.	REC	PB	PIN NO.	REC	PB	PIN NO.	REC	PB
1	2.5	2.5	26	2.1	2.1	51	0	0	76	2.2	2.4
2	2.5	2.5	27	0	0	52	2.4	2.4	77	4.5	4.5
3	0	0	28	2.8	2.8	53	2.8	2.8	78	2.8	2.8
4	2.5	2.5	29	1.9	1.9	54	1.9	1.9	79	3.78	2.1
5	0	0	30	2.8	2.8	55	2.1	2.1	80	2.5	2.6
6	1.4	0	31	2.8	2.8	56	2.8	2.8	81	1.2	2.4
7	2.5	2.5	32	0	0	57	2.5	2.5	82	2.4	2.4
8	2.5	2.5	33	0	0	58	2.8	2.8	83	2.2	2.2
9	2.5	2.5	34	0	0	59	2.8	2.8	84	0	3.3
10	2.5	2.5	35	2.7	2.7	60	2.8	2.8	85	0	0
11	2.5	2.5	36	5	5	61	5	5	86	2.3	2.1
12	5	5	37	0.1	0.1	62	5	5	87	2.3	2.1
13	2.1	1.6	38	5	5	63	5	5	88	2.3	2.1
14	2.1	1.6	39	2.7	2.7	64	4.25	4.25	89	2.3	2.1
15	2.3	2.3	40	5	5	65	2.1	2.3	90	5	5
16	0	0.7	41	5	5	66	5	5	91	2.3	2.1
17	2.5	1.8	42	1.7	1.7	67	5	5	92	2.3	2.1
18	2.1	2.1	43	5	5	68	0	0	93	2.3	2.1
19	2.8	2.8	44	2.5	2.5	69	2.5	2.5	94	2.3	2.1
20	2.8	2.8	45	0	0	70	2.5	2.5	95	2.8	2.8
21	2.1	2.1	46	1.9	1.9	71	2.1	2.1	96	5	5
22	2.4	2.2	47	0	0	72	1.7	1.7	97	0	0
23	2.8	2.8	48	0	0	73	2.1	2.1	98	2	2
24	2.1	2.1	49	0	0	74	2.7	2.7	99	0	0
25	1.4	1.4	50	0.3	0.3	75	2.1	2.1	100	2.5	2.5

A/V SW IC (IC601, MM1443XJ)

PIN NO.	REC	PB	PIN NO.	REC	PB	PIN NO.	REC	PB	PIN NO.	REC	PB
1	3	3	10	6	6	19	0	0	28	2.8	2.8
2	12	12	11	0	0	20	6	6	29	2	2
3	3	3	12	6	6	21	6	6	30	3	3
4	12	12	13	0	0	22	6	6	31	2	2
5	3	3	14	6	6	23	6	6	32	-	-
6	6	6	15	0	0	24	6	6	33	-	-
7	6	6	16	6	6	25	6	6	34	0	0
8	6	6	17	0	0	26	6	6			
9	0	0	18	0	0	27	6	6			

HI-FI IC (IC251, TDA9605H)

PIN NO.	REC	PB	PIN NO.	REC	PB	PIN NO.	REC	PB	PIN NO.	REC	PB
1	0	0	12	0	0.03	23	3.85	3.81	34	9.42	9.36
2	3.81	3.81	13	3.83	3.83	24	3.86	3.77	35	4.21	0.53
3	3.81	3.81	14	0	0	25	3.86	3.85	36	4.2	0.53
4	0	0	15	3.33	3.31	26	0.74	0.7	37	4.18	0.53
5	0	0	16	4.56	4.56	27	0	0	38	4.2	0.17
6	3.81	3.81	17	4.55	4.56	28	3.82	3.82	39	0	0
7	3.81	3.81	18	3.31	3.29	29	3.85	3.82	40	5.05	5.09
8	3.81	3.81	19	4.56	4.56	30	0.72	0.7	41	0.93	0.94
9	3.81	3.81	20	4.56	4.56	31	3.86	3.81	42	3.75	3.7
10	3.81	3.81	21	4.56	4.56	32	3.86	3.79	43	3.95	4
11	3.81	3.81	22	3.81	3.81	33	3.86	3.77	44	1.74	2.1

NICAM IC (IC051, MSP3417DQ)

PIN NO.	EE	PIN NO.	EE
1	0.03	27	0
2	2.29	28	0
3	0.01	29	0
4	0.01	30	3.69
5	0	31	3.7
6	4.95	32	0
7	3.95	33	8.25
8	3.7	34	6.57
9	0	35	0
10	0	36	3.66
11	0	37	0
12	0	38	0
13	0	39	3.68
14	0	40	3.68
15	0	41	3.68
16	4.95	42	3.68
17	0	43	2.54
18	0.01	44	3.69
19	0	45	0
20	5.1	46	4.92
21	0	47	1.5
22	0	48	1.5
23	0	49	0

A2 IC (MSP3407DQ)

PIN NO.	EE	PIN NO.	EE
1	0.01	27	0
2	0	28	0
3	0.01	29	0
4	0.01	30	3.72
5	0	31	3.73
6	5.02	32	0
7	3.6	33	8.15
8	3.3	34	6.47
9	2.47	35	0
10	2.46	36	3.68
11	2.43	37	0
12	0.02	38	0
13	0.03	39	3.71
14	0.02	40	3.71
15	0.02	41	3.71
16	5.02	42	3.71
17	0	43	2.57
18	0.02	44	3.72
19	0.01	45	0
20	5.12	46	4.98
21	0	47	1.51
22	0	48	1.51
23	0	49	0

VOLTAGE CHART

PIN NO.	EE	PIN NO.	EE
24	1.66	50	0
25	1.69	51	2.32
26	0	52	2.26

PIN NO.	EE	PIN NO.	EE
24	1.69	50	0
25	1.7	51	2.35
26	0	52	2.27

TMI (RF101, LGTMI-SLQ1-S)

PIN NO.	REC	PB	PIN NO.	REC	PB	PIN NO.	REC	PB	PIN NO.	REC	PB
1	4.83	4.9	7	31.9	31.9	13	4.9	0	19	1.08	0
2	0	0	8	1.91	0	14	4.9	0	20	0.23	0.03
3	3.7	3.7	9	0	0	15	0	0	21	2.43	0
4	4.85	4.9	10	0	0	16	31.9	31.9	22	2.01	0.01
5	4	3.9	11	3.9	4	17	0	0	23	2.69	0
6	0	0	12	3.7	3.7	18	0	0	24	2.74	0

REGULATOR IC (IC802, KA431AZ)

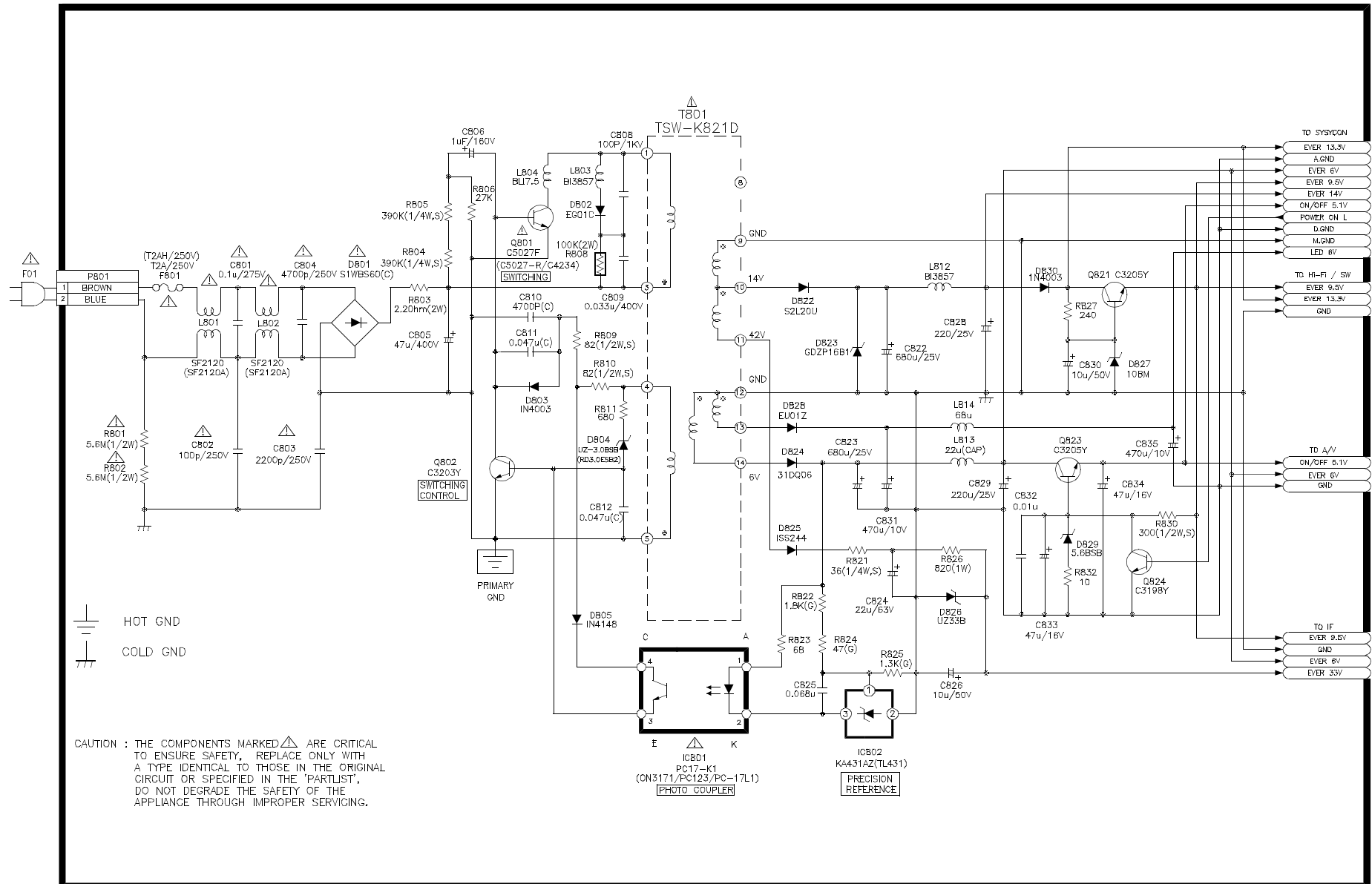
PIN NO.	REC	PB
1	2.49	2.49
2	0	0
3	4.82	4.82

METHOD TO DISCRIMINATE WHICH VIDEO IC IS APPLIED FOR EACH K-MECHA MODEL

MODEL			K30		K40	K50		K60D	K60S	
APPLIED VIDEO IC			HITACHI		SANYO	SANYO		HITACHI	SANYO	
			HA118511F	HA118517F (SHRINK TYPE)	LA71594M	LA71594M	LA71598M	HA118517F	LA71594M	LA71598M
							LA71598SM (SRINK TYPE)			LA71598SM (SRINK TYPE)
ADJACENT COMPONENT VALUES WHICH HAVE TO BE MODIFIED ACCORDING TO THE APPLIED VIDEO IC	LOC.	C210 (R)	2.2uF/50V	10uF/16V				2.2uF/50V		
		C305 (C)	39pF	56pF				56pF		
		C415 (R)	10uF/16V	2.2uF/50V				10uF/16V		
		L302 (A)	82uH	150uH				150uH (RADIAL)		
		R304 (A)	1.3K OHM	2.2K OHM				2.2K OHM		
		R307 (C)	1.8M OHM	DELETE				DELETE		
		RJ37 (C)	DELETE	3216 TYPE				3216 TYPE		
		R303 (C)			10K OHM	10K OHM	20K OHM		10K OHM	20K OHM
		R304 (A)			18K OHM	18K OHM	10K OHM		18K OHM	10K OHM
PCB MARKING (S/N)		97P65221MA		97P65251MA	97P65260MA		97P65270MA	97P65272MA		
PCB MARKING (B/W INVERTED CHR.)								K60D	K60S	

CIRCUIT DIAGRAM

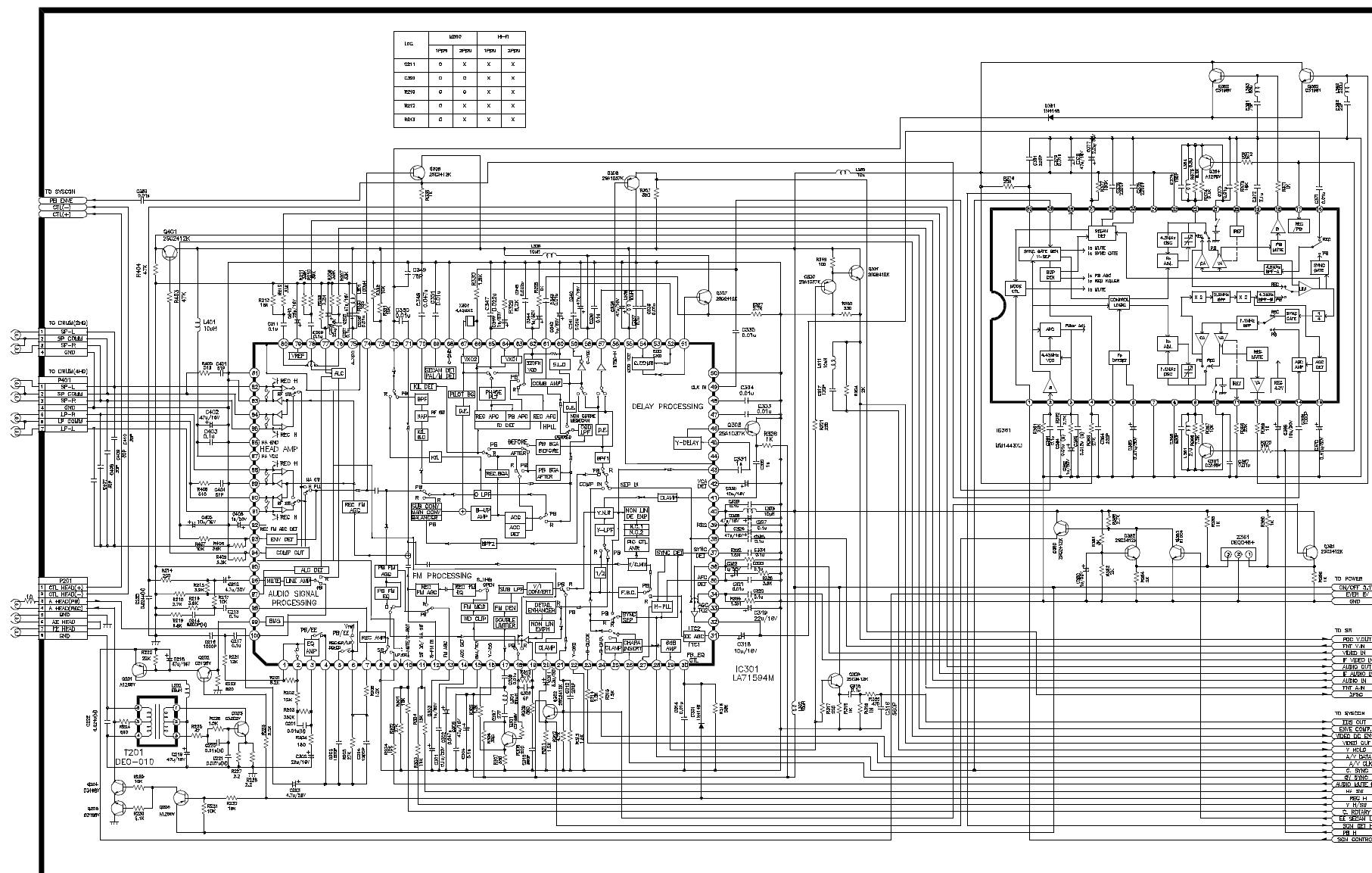
1. POWER CIRCUIT DIAGRAM (230V ONLY)



2. SYSCON CIRCUIT DIAGRAM

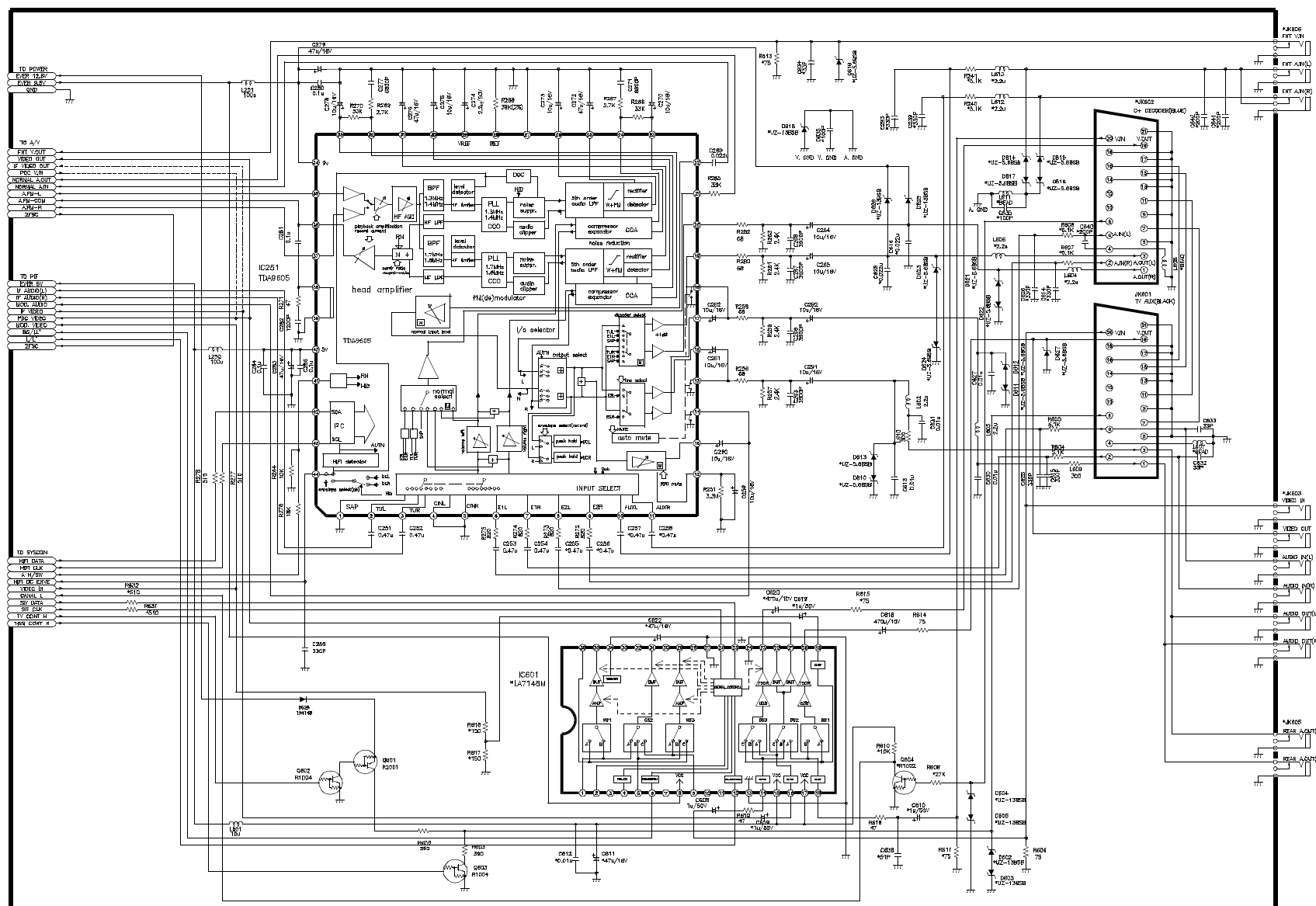


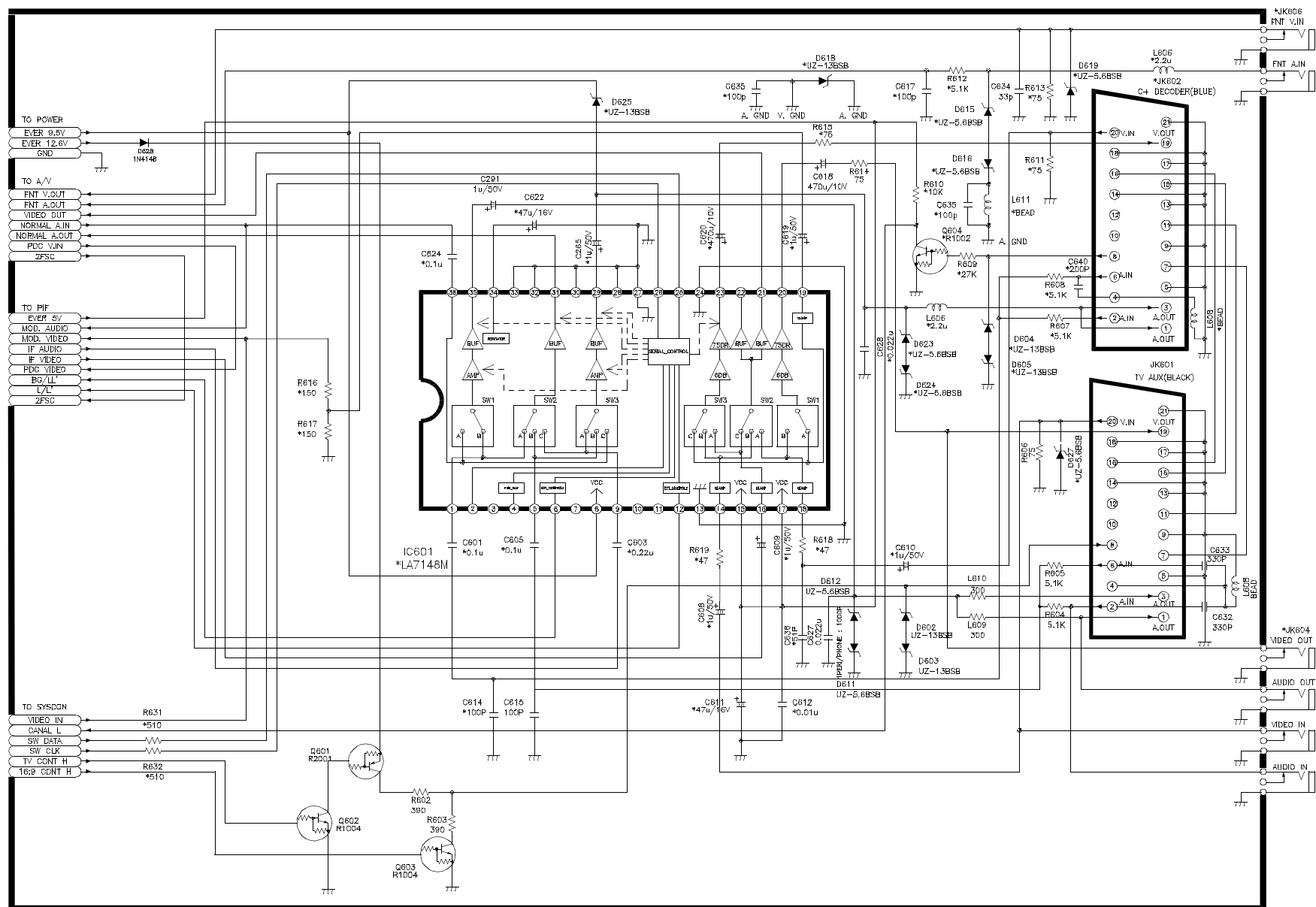
3. AV CIRCUIT DIAGRAM (SECAM)





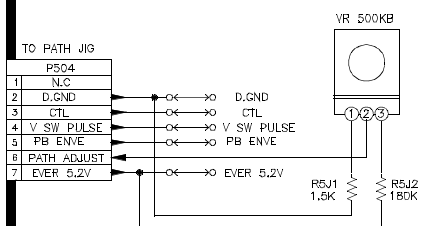
5. HIFI & SW CIRCUIT DIAGRAM



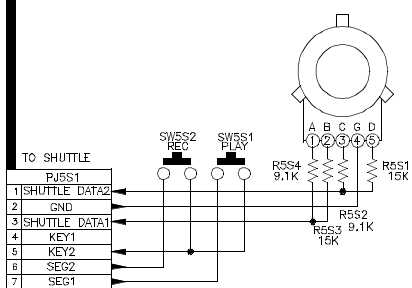


7. SHUTTLE / PATH JIG CIRCUIT DIAGRAM

PATH JIG PCB



SHUTTLE PCB



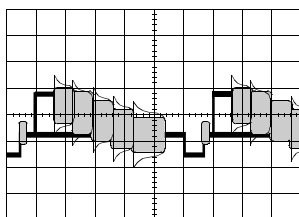
OPTION TABLE

MICOM	SYSTEM		AUTO SET		PWR COMP.	F. AV	GEMSTAR	HEAD/SPEED			
PAL-I, I/I SECAM	D501	D502	D503	D504	D507	D509	D512	D513		D514	
								PAL-B/G, BG/DK	PAL-I,I/ SECAM	PAL-B/ G,BG/DK	PAL-I, I/I SECAM
SECAM (FRANCE)	X	X									
SECAM (SWISS)	X	O									
NON-PDC			X	X							
PDC1			X	O							
PDC2			O	X							
PDC3			O	O							
1 MIN.					X						
30 MIN.					O						
NOT APPLIED						X					
APPLIED						O					
SV/V+							X				
G-CODE							O				
SECAM 4HD								X		X	
SECAM 2HD								X		O	

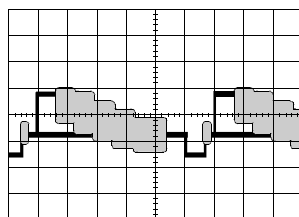
D511 : SANYO SECAM.L IC OPTION => ADD D511 ALWAYS FOR K60 SECAM MODEL

WAVEFORMS ON VIDEO CIRCUIT

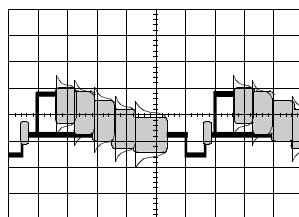
1. WAVEFORMS IN THE EE MODE(COLOR BAR INPUT)



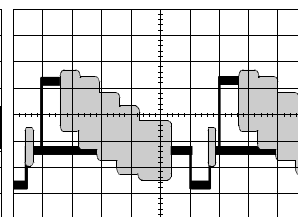
① Pin 36 of IC301
(SECAM color bar input :
1.0Vp-p)



② Pin 36 of IC301
(PAL color bar input :
1.0Vp-p)

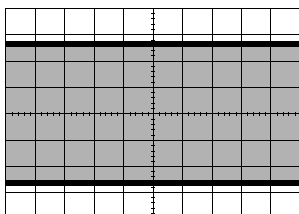


③ Pin 29 of IC301
(SECAM color bar output :
2.0Vp-p)

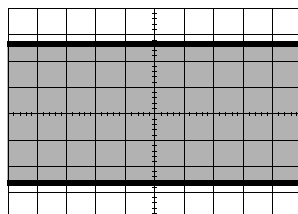


④ Pin 29 of IC301
(PAL color bar output :
2.0Vp-p)

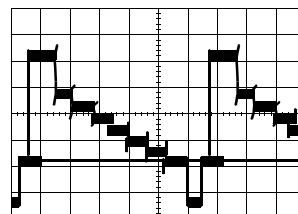
2. WAVEFORMS OF THE LUMINANCE IN THE RECORD MODE(COLOR BAR INPUT)



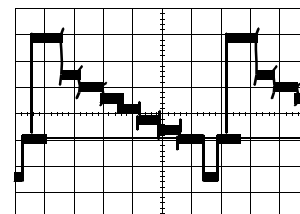
⑤ Pin 83 or 89 of IC301(PAL)
(REC luminance :
300mVp-p)



⑥ Pin 83 or 89 of IC301(SECAM)
(REC luminance :
300mVp-p)

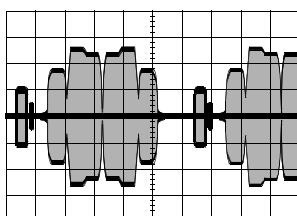


⑦ Pin 21 of IC301
(0.5Vp-p)

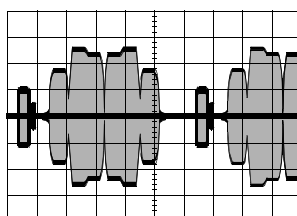


⑧ Pin 20 of IC301
(0.5Vp-p)

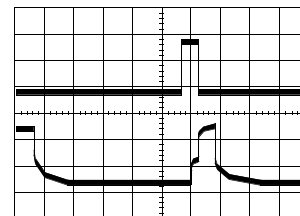
3. WAVEFORM OF THE PAL COLOR IN THE RECORD MODE(COLOR BAR INPUT)



⑨ Pin 57, 59 of IC301
(300mVp-p)

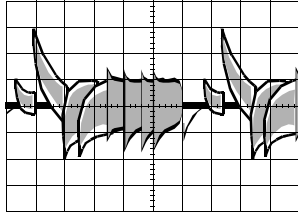


⑩ Pin 61 of IC301
(400mVp-p)

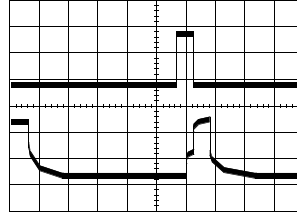


⑪ Pin 28 of IC301
(C.SYNC : 2Vp-p)

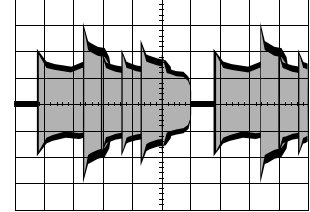
4. WAVEFORM OF THE SECAM COLOR IN THE RECORD MODE(COLOR BAR INPUT)



⑫ Pin 16 of IC361
(SECAM color input :
1.0Vp-p)

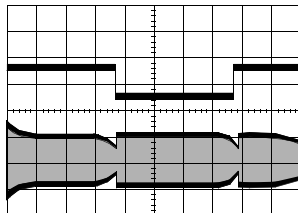


⑬ Pin 28 of IC301
(C.SYNC : 2Vp-p)

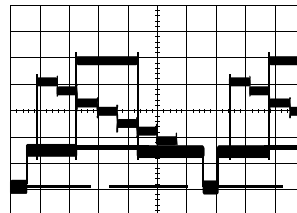


⑭ Pin 12 of IC361
(200mVp-p)

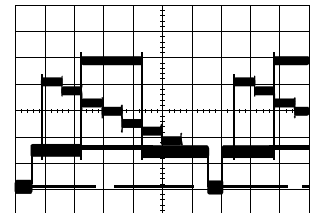
5. WAVEFORMS OF THE LUMINANCE IN THE PB MODE (DP-1 TEST TAPE)



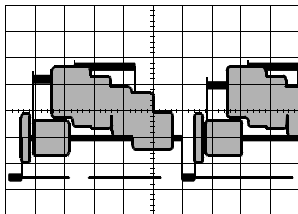
⑮ UP : Pin 11 of IC301(color
rotary : 1Vp-p
DOWN : Pin 74 of IC301
(ENVE : 0.5Vp-p)



⑯ Pin 46 of IC301
(0.5Vp-p)

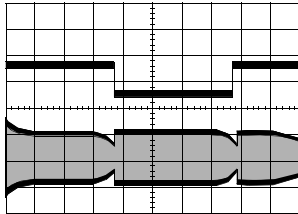


⑰ Pin 41 of IC301
(0.5Vp-p)

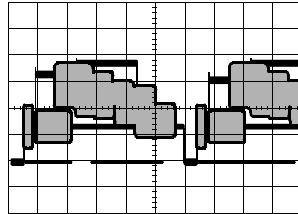


⑱ Pin 29 of IC301
(Video out : 2.0Vp-p)

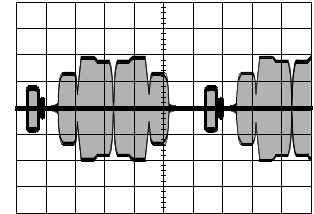
6. WAVEFORMS OF THE PAL COLOR IN THE PB MODE (DP-1 TEST TAPE)



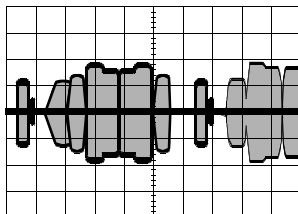
①⑨ UP : Pin 11 of IC301(color rotary : 0.5Vp-p)
DOWN : Pin 74 of IC301 (500mVp-p)



②⑩ Pin 29 of IC301 (Video out : 2.0Vp-p)

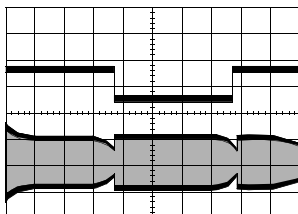


②① Pin 57,59 of IC301 (240mVp-p)

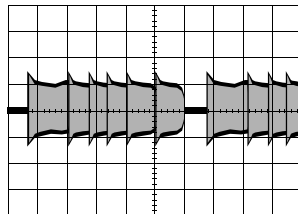


②② Pin 61 of IC301 (300mVp-p)

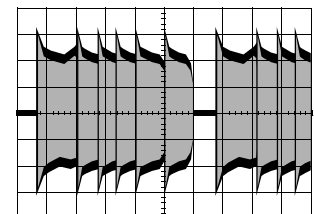
7. WAVEFORMS OF THE SECAM COLOR IN THE PB MODE (DS-1 TEST TAPE)



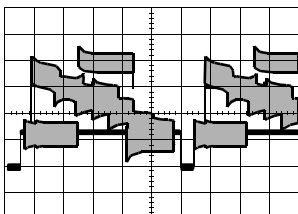
②③ UP : Pin 11 of IC301(color rotary : 0.5Vp-p)
DOWN : Pin 74 of IC301 (PB color ENVE : 400mVp-p)



②④ Pin 18 of IC361 (400mVp-p)



②⑤ Pin 72 of IC301 (280mVp-p)



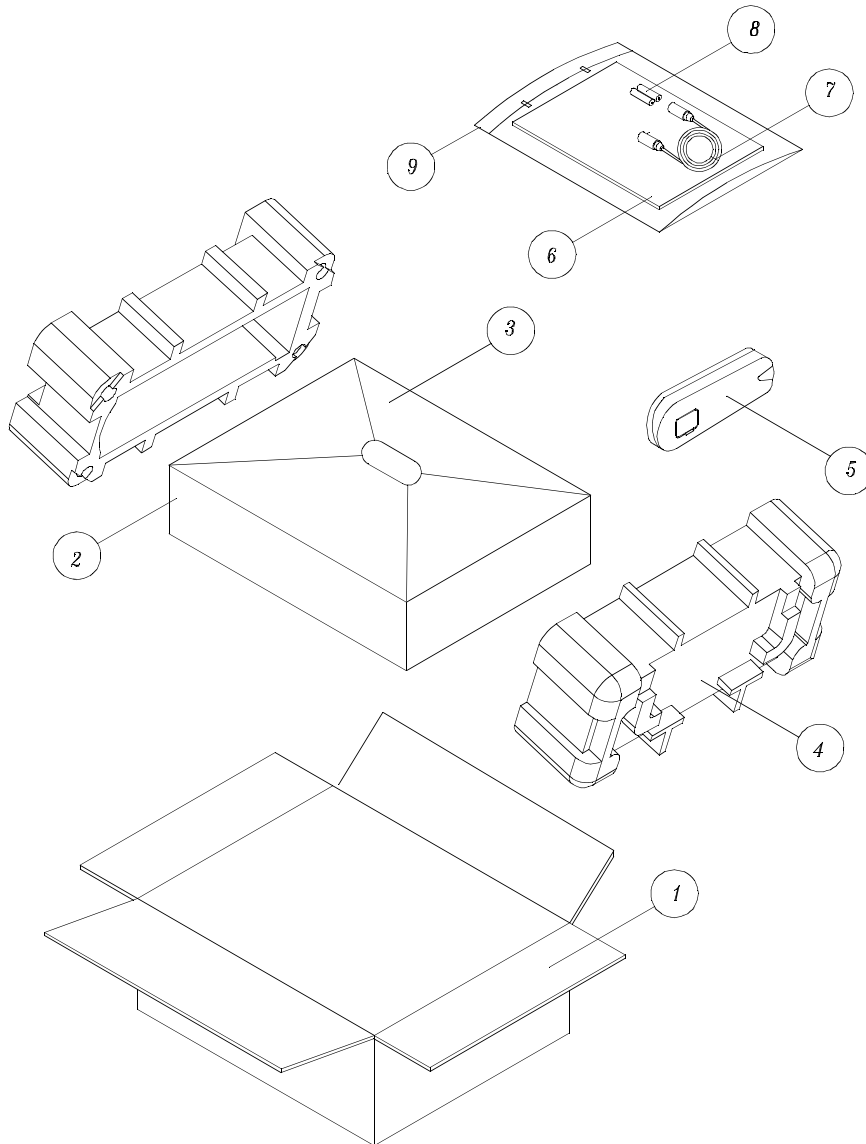
②⑥ Pin 29 of IC301 (SECAM video out : 2.0Vp-p)

COMPONENTS LOCATION GUIDE ON PCB BOTTOM VIEW

1. PCB MAIN

DISASSEMBLY

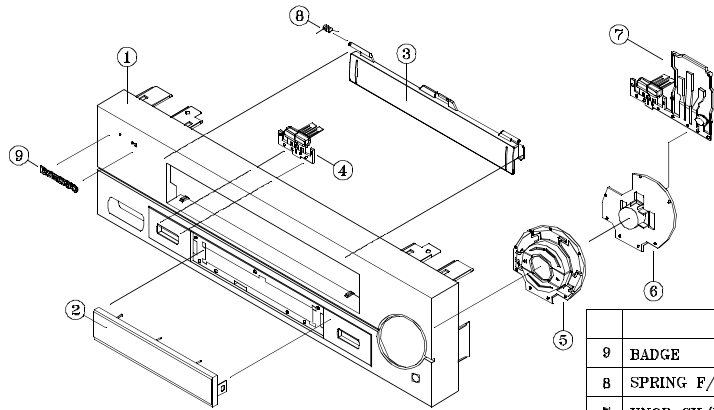
1. PACKING ASS'Y



9	97P0424100	COVER ACCESSORY	1	LD-PE T0.1	
8	486A716202	BATTERY	2	AAA 1.5V(SUPERGARD)	
7	97P880RP10	CABLE RF	1	PAL 1.0M	
6	97P9560000	MANUAL OWNERS	1	ALL MODEL	
5	97P1R2GAC0	REMOCON HANDSET AS	1	VR-F2GA	
4	97P4927200	PAD L/R	1	EPS	
3	97P4801300	POLY BAG FOR SET	1	PE-FORM	
2		SET TOTAL AS	1	DV-K829DY-AQ	
1	97P5043800	BOX CARTON	1	SW-4	
No.	PART No.	PART NAME	QUANTITY	MATERIAL	REMARK

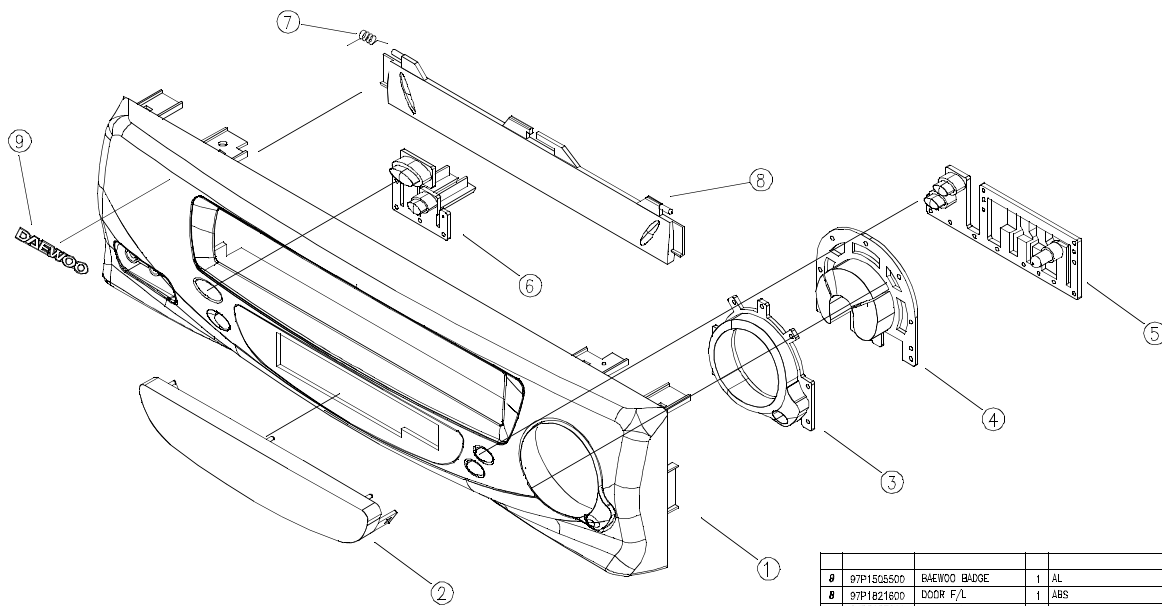
2. FRONT PANEL ASSEMBLY

DV-K813S SERIES



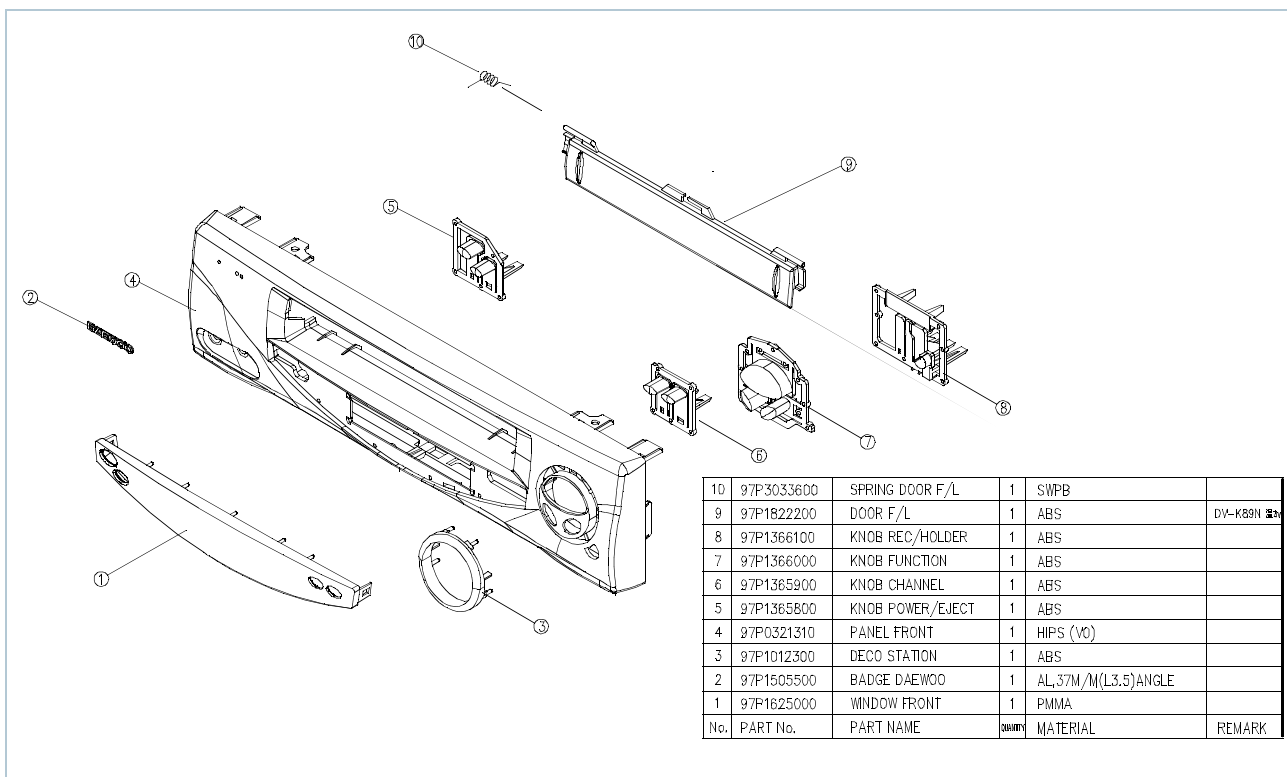
9	BADGE	Ø7P1502800	1	AL	
8	SPRING F/L DOOR	Ø7P3033600	1	SWPB	
7	KNOB CH/REC	Ø7P1387000	1	ABS	
6	KNOB DECO	Ø7P1386900	1	ABS	
5	KNOB FUNCTION	Ø7P1386800	1	ABS	
4	KNOB P/EJECT	Ø7P1386700	1	ABS	
3	DOOR F/L	Ø7P1822300	1	ABS	
2	WINDOW FRONT	Ø7P1625200	1	PMMA	REMARK
1	PANEL FRONT	Ø7P0321500	1	HI-PS(HB)	REMARK

DV-K823S SERIES

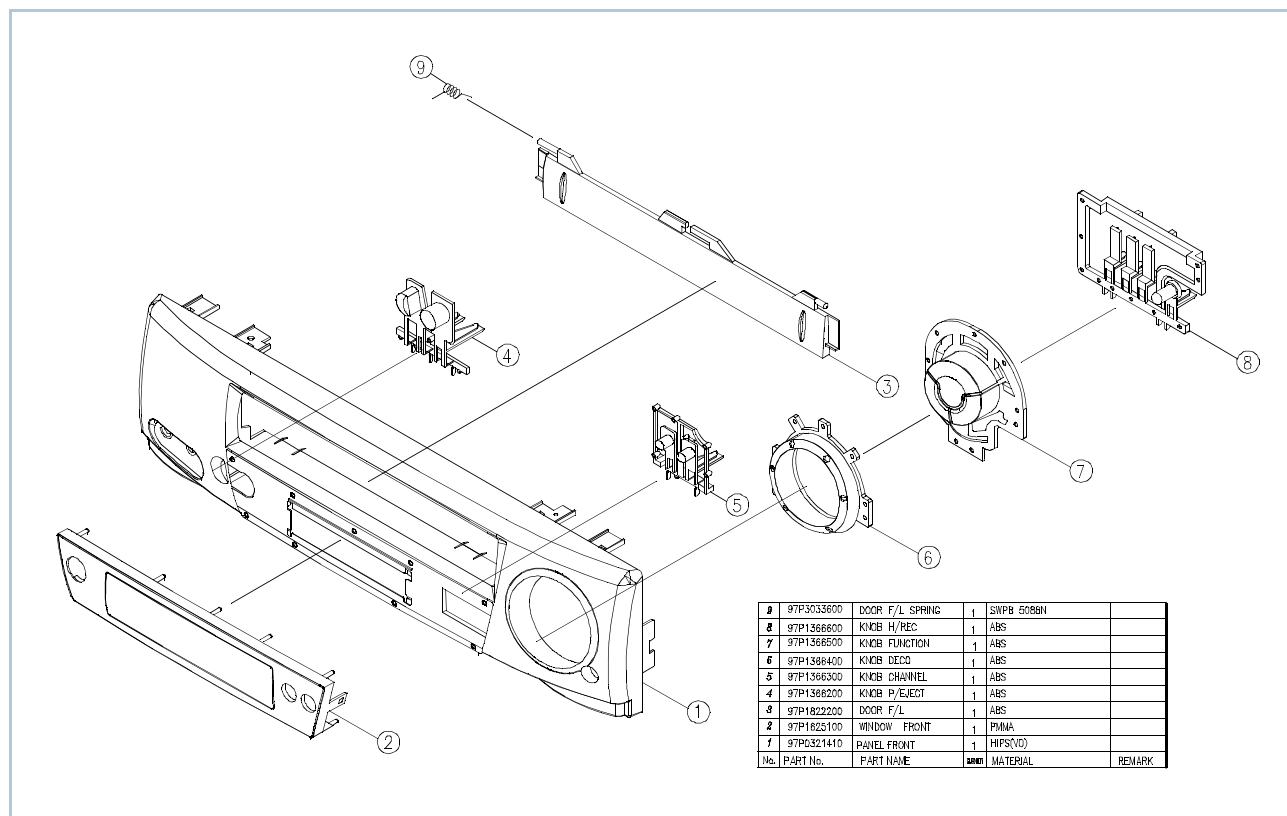


9	Ø7P1505500	DAEWOO BADGE	1	AL	
8	Ø7P1821600	DOOR F/L	1	ABS	
7	Ø7P3033600	DOOR F/L SPRING	1	SWPB 5082H	
6	Ø7P1382600	KNOB P/EJECT	1	ABS	
5	Ø7P1382600	KNOB CHANNEL	1	ABS	
4	Ø7P1382300	KNOB FUNCTION	1	ABS	
3	Ø7P1382400	KNOB DECO	1	ABS	
2	Ø7P1623800	WINDOW FRONT	1	PMMA	
1	Ø7P0320400	PANEL FRONT	1	HI-PS(HB)	
No.	PART No.	PART NAME	QTY	MATERIAL	REMARK

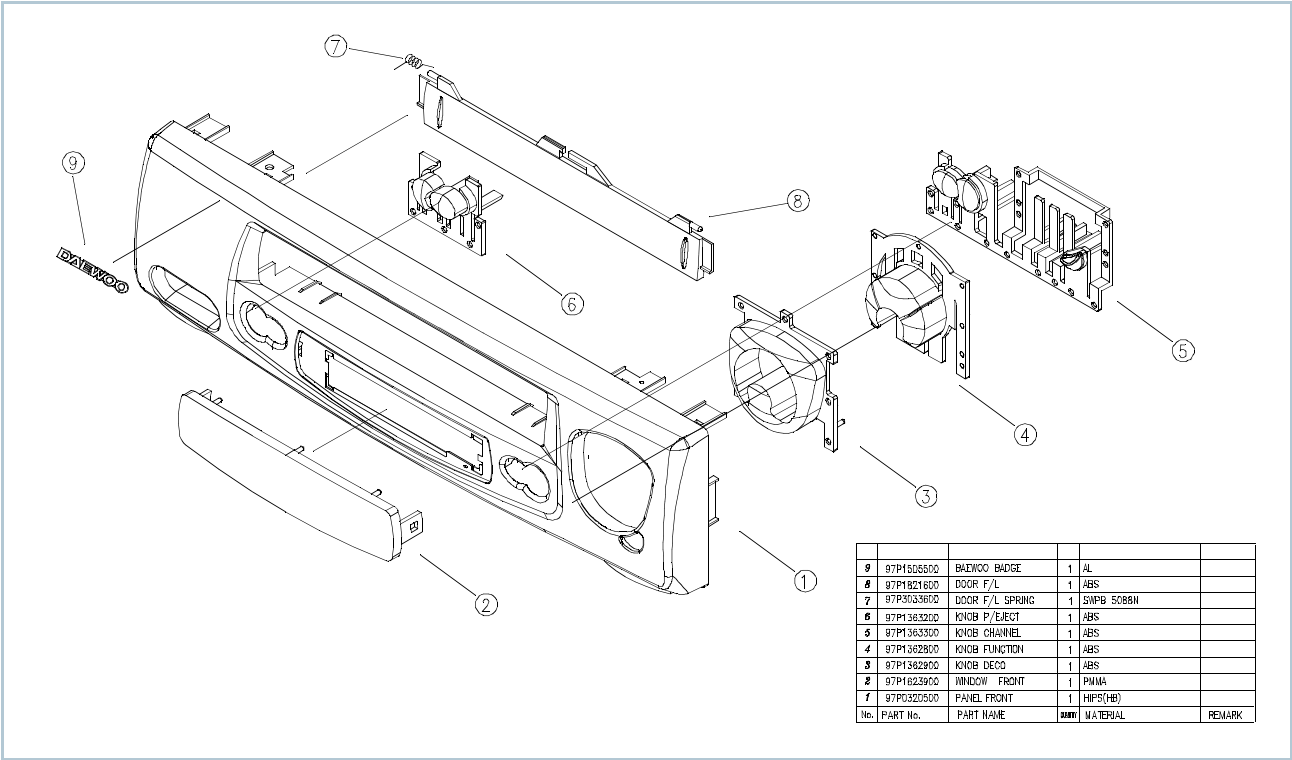
DV-K873S SERIES



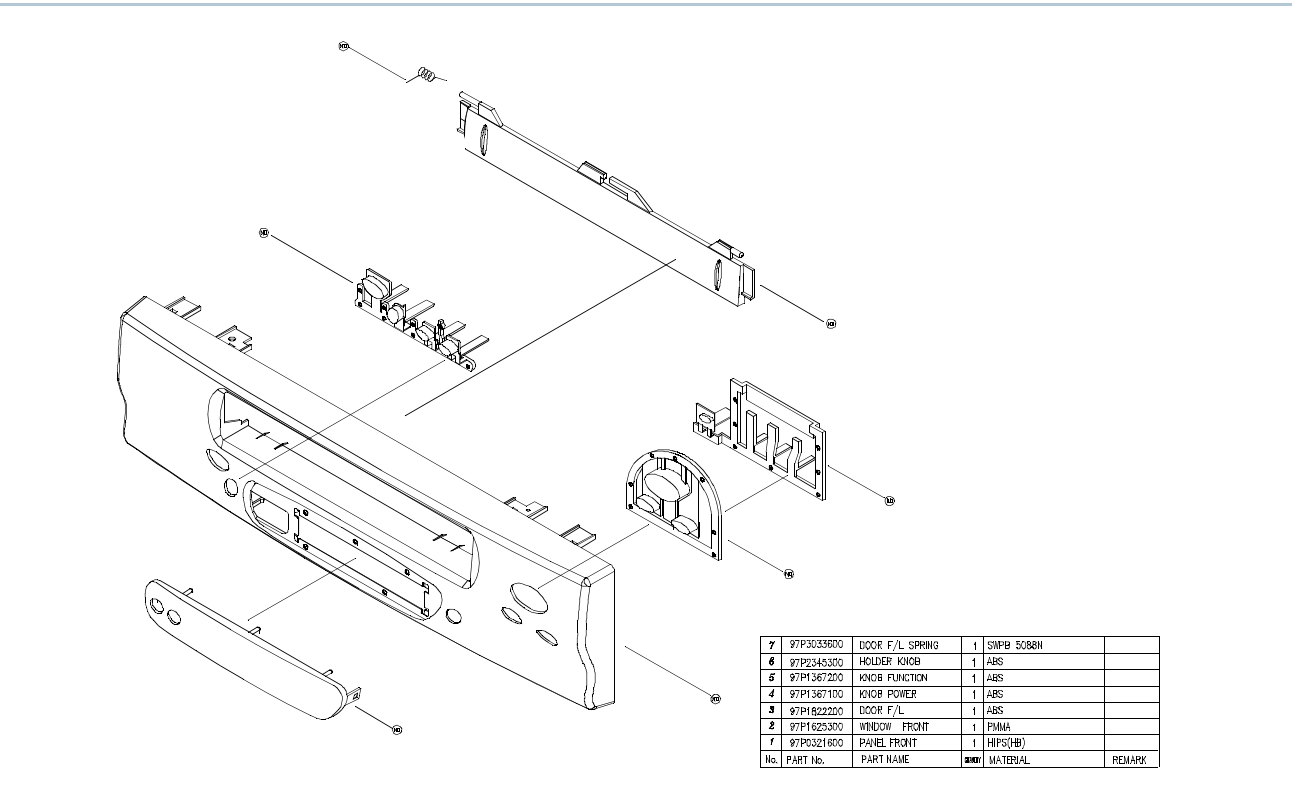
DV-K893S SERIES



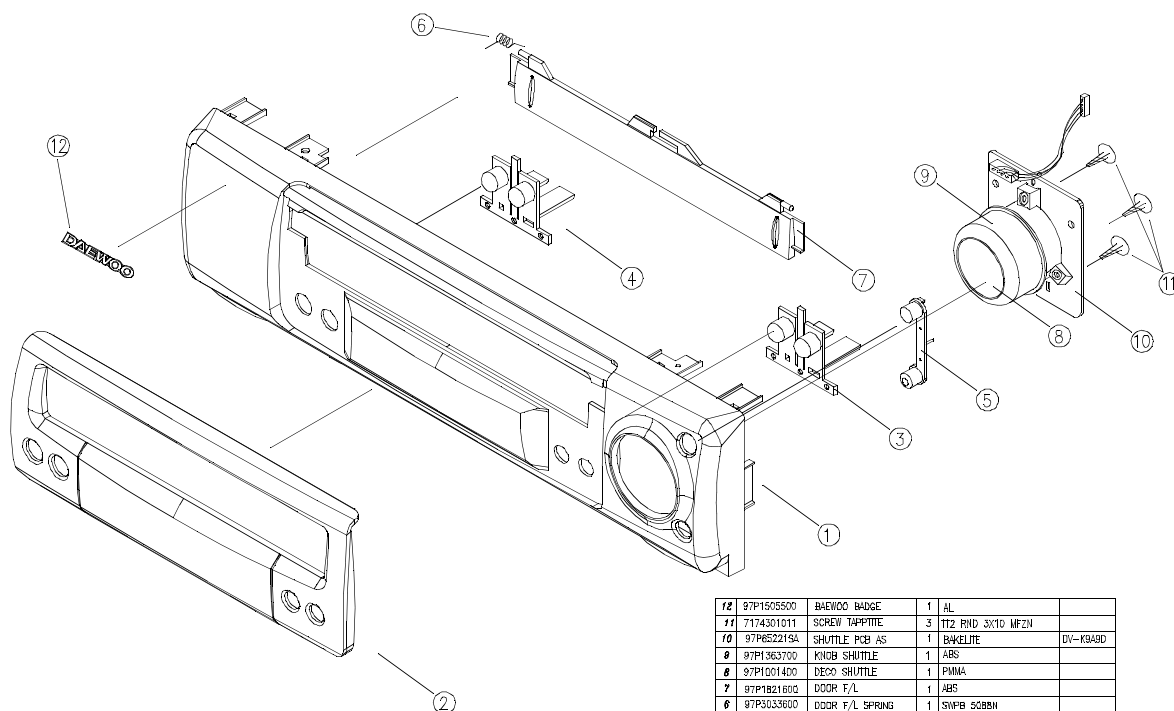
DV-K843S SERIES



DV-K863S SERIES



DV-K9A3S SERIES



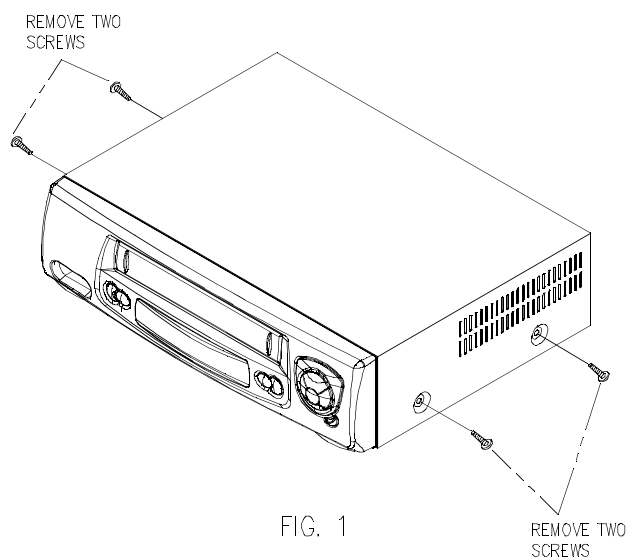
12	97P1505500	BAEWOO BADGE	1	AL	
11	7174301011	SCREW TAPPTIE	3	TT2 RND 3X10 MFZN	
10	97P6522154	SHUTTLE PCB AS	1	BAWELITE	DV-K9A3S
9	97P1363700	KNOB SHUTTLE	1	ABS	
8	97P1001400	DECO SHUTTLE	1	PMMA	
7	97P1821800	DOOR F/L	1	ABS	
6	97P3033600	DOOR F/L SPRING	1	SWFB SCBBN	
5	97P1383800	KNOB PLAY/REC	1	ABS	
4	97P1383900	KNOB P/E	1	ABS	
3	97P1364000	KNOB CH	1	ABS	
2	97P1624200	WINDOW FRONT	1	PMMA	
1	97P0320800	PANEL FRONT	1	HIPS(HB)	

No.	PART No.	PART NAME	QTY	MATERIAL	REMARK
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3. INSTRUMENT DISASSEMBLY

3-1. TOP COVER REMOVAL (FIG.1)

- 1) Remove five (5) screws holding the top cover.
- 2) Carefully lift the back of the top cover and slide to the rear to remove.



3-2. FRONT PANEL REMOVAL (FIG.2)

- 1) Remove the top cover.
- 2) Release seven (7) tabs holding the front panel.
- 3) Remove the front panel.

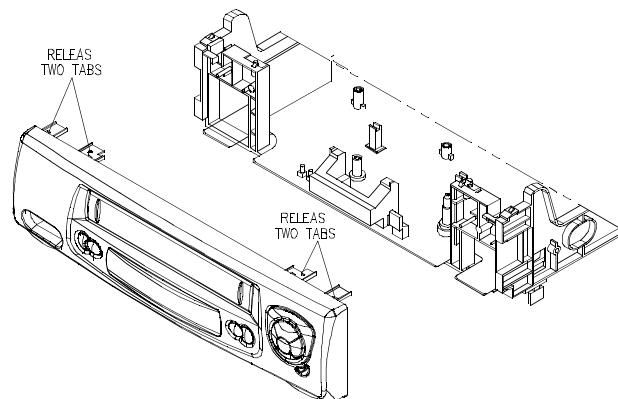


FIG. 2

3-3. BOTTOM COVER REMOVAL (FIG.3)

- 1) Remove the top cover and front panel.
- 2) Remove three (3) screws.
- 3) Release four (4) tabs and lift out the bottom cover.

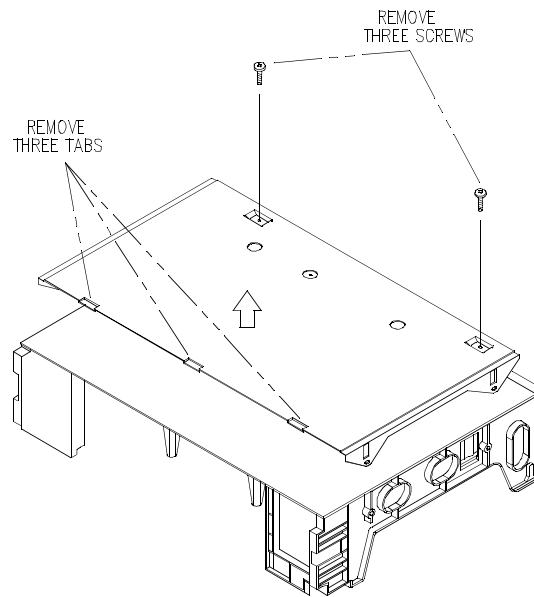


FIG. 3

3-4. F/L DOOR REMOVAL (FIG.4)

- 1) Open the F/L door 90°.
- 2) Remove the F/L door in the direction of arrow.

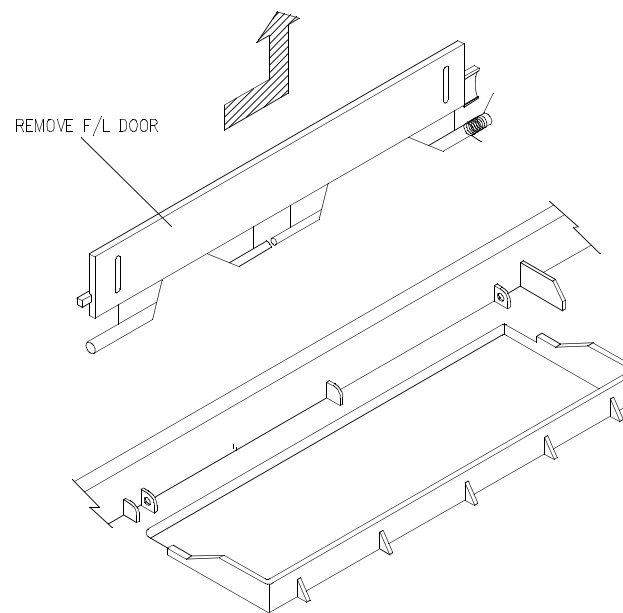


FIG. 4

3-5. COVER PRE-AMP / DECK AS REMOVAL (FIG.5)

- 1) Remove five (5) screws.
- 2) Disconnect the connector and FPC.
- 3) Pull out the DECK AS and COVER PRE-AMP in the direction of arrow.

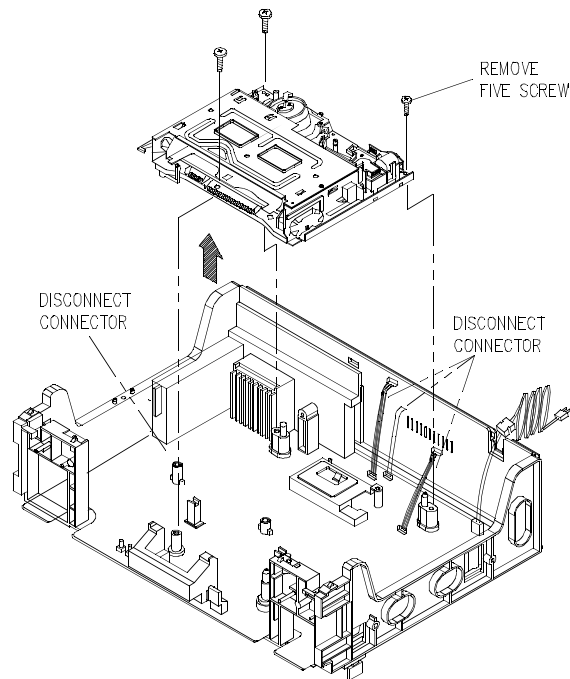
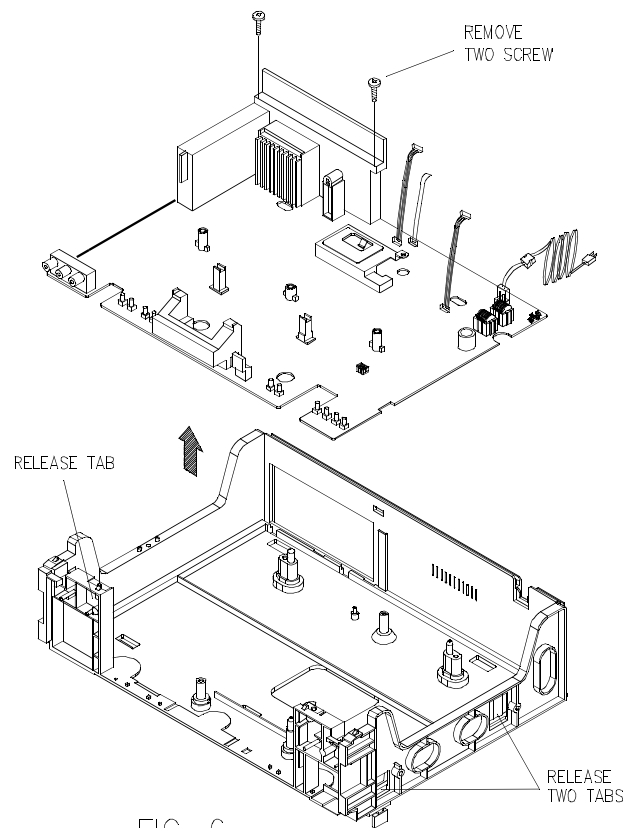


FIG. 5

3-6. PCB MAIN AS REMOVAL (FIG.6)

- 1) Remove two (2) screws.
- 2) Release three (3) tabs and lift out the main PCB in the direction of arrow.



ELECTRICAL PARTS LIST

“®” is a recommendable part for stock.

1. PCB MAIN AS

LOC	PART-CODE	PART-NAME	PART-DISC	REMARK	LOC	PART-CODE	PART-NAME	PART-DISC	REMARK
3	PVMCASS109	CHASSIS MAIN AS	DV-K823SY-AQ		A1901	7274300611	SCREW TAPPTITE	TT3 RND 3X6 MFZN	
A001	97P0610600	CHASSIS MAIN	HI-PS(HB)		A2100	97SA311600	IDLER PLATE AS	K-MECHA	
A0011	97P0800600	LEG	SBR 80 BLK		A2200	97S3108200	POLYWASHER	D2.6XD6.0XT0.5	
A002	97P93400S0	LABEL SPEC	PE FILM (SECAM-L MODEL)		A2300	97S2901600	TABLE REEL	F20 BLACK	®
A015	97P4218700	CUSHION F/L	20*15*7.5T EVA		A2400	97S3903600	POLY SLIDER	D3.1XD6XT0.5	
A040	97P0478401	COVER TOP	BK611C		A2500	97SA310800	TENSION BAND AS	K-MECHA	®
A041	7173401212	SCREW TAPPTITE	TT2 BIN 4X12 BK		A2600	97S3003500	SPG TENSION	SWPB D0.4	
A060	97P0474100	COVER BOTTOM	SECC T0.4		A2700	97SA309300	S SUB BRAKE AS	K-MECHA	
A061	7174301211	SCREW TAPPTITE	TT2 RND 3X12 MFZN		A2800	97SA309400	T SUB BRAKE AS	K-MECHA	
D100	97P1R2GHA0	REMOCON HANDSET AS	VR-F2GH		A2900	97SA309110	MAIN BRAKE AS	K-MECHA	
M01	97PP320400	PANEL FRONT AS	DV-K829DY		A3100	97S8012900	HEAD FE	HVHFH0004AK(LG)	
M01A	97P9359900	LABEL STICKER	HOLOGRAM SHEET		A3101	97S3102100	SCREW TAPPTITE	TT2 BIN-P 2.6X10 MFZN	
M021	7173401211	SCREW TAPPTITE	TT2 BIN 4X12 MFZN		A3300	97SA309000	REEL GEAR TOT AS	K-MECHA	
M022	7174301211	SCREW TAPPTITE	TT2 RND 3X12 MFZN		A3400	97S3108200	POLYWASHER	D2.6XD6.0XT0.5	
M1000	PVDKARS96H	VCR DECK AS	DRS-9620N(C0324D-)		A3500	97S5500400	BELT REEL	CR68	®
AD001	97PA272971	DRUM PRICE AS	CYS-KT612G		A3600	97S2625500	LEVER REC SAFETY	F20-03 SKY BLUE	
AD002	7274301011	SCREW TAPPTITE	TT3 RND 3X10 MFZN		A4100	2291129004	OIL LUBRICANT	OA-305P	
AF001	97SA251400	F/L AS	K-MECHA	®	A4200	2291131304	GREASE	DELUXE 5221G(NAM-YOUNG)	
AF002	7274300611	SCREW TAPPTITE	TT3 RND 3X6 MFZN		PW01	97P69DB900	CORD POWER AS	EUROPEAN	
A0010	97SA309700	MAIN BASE AS	K-MECHA		P502A	97P88F0714	CABLE FFC	1.25K 7P 140MM	
A011	97P93B2102	LABEL CD(DECK)	PAPER(13X56) ALL MODEL		Z001	PVMPMSS109	PCB MAIN MANUAL AS	DV-K823SY-AQ	
A0200	97S0901400	PLATE CONNECT	SECC T1.0		AM01	2193102005	SOLDER BAR	SN-PB=63:37 S63S-1320	
A0300	97S2701800	RACK F/L	PBT (KP213G30) NATURAL	®	AM02	2193011100	SOLDER WIRE	60 SNA 1.2D	
A0400	97SA310900	S SLANT POLE AS	"G,FM,K-MECHA"	®	AM03	2291050305	FLUX LIQUID	RF-800KN	
A0500	97SA311000	T SLANT POLE AS	"G,FM,K-MECHA"	®	AM04	2291050306	FLUX THINNER	RF-800ADD	
A0600	97SA308500	L LOADING AS	K-MECHA		AM05	2291140501	WAX COVER	DS-102AN	
A0700	97SA308600	R LOADING AS	K-MECHA		AM06	97P93B2101	LABEL CD(PCB)	PAPER(13X48) ALL MODEL	
A0800	97SA308400	LOADING RACK AS	K-MECHA		B001	97P0720400	BOARD ANT	HI-PS(HB)	
A0900	97S3101800	WASHER POLY	D3.1XD8XT0.5		B001A	7175300812	SCREW TAPPTITE	TT2 FLT 3X8 MFZN BK	
A1000	97S8100700	MOTOR CAPSTAN	F2QTB12	®	C801	CL1EE3104M	C LINE ACROSS	AC275V 0.1MF M PCX2 335 W	
A1001	97S3102020	SCREW TAPPTITE	TT2 BIN 2.6X7 MFZN		C802	CH1TFB101K	C CERA AC	4.0KV 100PF K AD AC250V	
A1200	97S3004000	SPG AC HEAD	SUS304WPB D1.2		C803	CH1TFE222M	C CERA AC	4.0KV 2200PF M AD AC250V	
A1300	97SA311200	AC HEAD AS	K-MECHA(LG)		C804	CH1CEE472M	C CERA AC	2.5KV 4700PF M DE AC250V	
B1310	97S8020600	HEAD A/C	HVMXB1010AK(LG)		C805	CEXF2G470V	C ELECTRO	400V RSS 47MF 16X25	®
A1301	7391300211	NUT HEX	6N-1.5 MFZN		C808	CBXB3A101J	C CERA SEMI	1KV KR 100PF J	
A1500	97S2604100	LEVER RELAY	ZDC-2		C822	CEXK1E681L	C ELECTRO	25V 680UF KXL	
A1600	97S2701400	GEAR CAM	DELIN 500 NATURAL		C823	CEXK1E681L	C ELECTRO	25V 680UF KXL	
A1700	97SA310750	PINCH LEVER TOT AS	K-MECHA	®	D524	DS1R481T--	LED IR	SIR-481T(P-RANK)	®
B1710	97SA481050	PINCH ROLLER AS	D15(DAEJIN D2.6*D7*T4.5)		D524A	97P2334200	HOLDER LED SENSOR	POM	
A1800	97S3117300	WASHER POLY	D3.6XD8XT0.5		D822	DS2L20U--F	DIODE	S2L20U 4004 P15	®
A1900	97SA310400	L/C BRKT TOT AS	K-MECHA	®	D824	D31DQ06--F	DIODE SCHOTTKY	31DQ06-FC5	
B1910	97S8103600	L/C MOTOR	MDH2B70		H501	1TS0P2238W	IC UNIT R/RECEIVER	TS0P2238WE1	®
B1940	5SSF1DKM10	SW CAM	MMS00320ZMBO		H502	DK829D----	LED DISPLAY	K829D-ODM-H022-HIFI	®

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DISC	REMARK	LOC	PART-CODE	PART-NAME	PART-DISC	REMARK
IC502	1KA3082---	IC DRIVER	KA3082B	®	C213	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
IC803	1PC-17L1BB	IC PHOTO COUPLER	PC-17L1BB CTR100-200		C216	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012	
JK601	97P6313300	JACK DOUBLE SCART	DSAM-9621		C239	HCLK331JCA	C CHIP CERA	50V SL 330PF J 2012	
JK605	97P6314900	JACK PIN	DPAM-9825		C251	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
JK606	97P6316000	JACK PIN	DPAE-9930		C252	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
L801	5PLFSF212A	FILTER LINE	SF-2120A		C253	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
L802	5PLFSF212A	FILTER LINE	SF-2120A		C254	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
M401	97P0474200	CASE SHIELD PREAMP	ET T0.4		C255	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
M801	97P0974300	PLATE EARTH-P	ET T=0.4		C256	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
PJ201	97P885X100	CONN AS	6H/2H-8S 140/350(TUBE)MM		C257	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
PJ503	97P8810712	CONN AS (Y10712)	"7H-7S, 120MM"		C258	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
P401	97P62G06DA	CONN HOUSING	GF120 FPC 1.25MM 10P		C263	HCBK392KCA	C CHIP CERA	50V X7R 3900PF K 2012	
P501	97P62J012A	CONN B/B	JE612 PLUG 2.0 10P		C266	HCBK392KCA	C CHIP CERA	50V X7R 3900PF K 2012	
P502	97P62G06D7	CONN HOUSING	GF120 FPC 1.25MM 7P		C267	HCBK392KCA	C CHIP CERA	50V X7R 3900PF K 2012	
P504	97P6269100	CONN WAFER	00-8283-0712-00000		C268	HCBK392KCA	C CHIP CERA	50V X7R 3900PF K 2012	
P801	97P62Y02X2	CONN WAFER	YFW800 STR 10MM 2P		C269	HCBK223KCA	C CHIP CERA	50V X7R 0.022MF K 2012	
Q801	TKSC5027FR	TR	KSC5027FR	®	C271	HCBK682KCA	C CHIP CERA	50V X7R 6800PF K 2012	
RF101	97P7614400	TUNER 3 IN 1	SSTMI-SLQ3-S	®	C277	HCBK682KCA	C CHIP CERA	50V X7R 6800PF K 2012	
R593	RS02F100JS	R M-OXIDE FILM	2W 10 OHM J SMALL	®	C281	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
R803	RW02B229J-	R WIRE WOUND	2W 2.2 OHM J		C282	HCBK122KCA	C CHIP CERA	50V X7R 1200PF K 2012	
R808	RS02F104JS	R M-OXIDE FILM	2W 100K OHM J SMALL		C285	HCLK331JCA	C CHIP CERA	50V SL 330PF J 2012	
R826	RS01F821J-	R M-OXIDE FILM	1W 820 OHM J		C286	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
SW501	5S70101059	SW DETECTOR	SPPB62		C293	HCLK331JCA	C CHIP CERA	50V SL 330PF J 2012	
S501	TST5811---	TR PHOTO	ST-5811(D-RANK)	®	C304	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
S501A	97P2343500	HOLDER TR	ABS		C307	HCQK270JCA	C CHIP CERA	50V CH 27PF J 2012	
S502	TST5811---	TR PHOTO	ST-5811(D-RANK)		C308	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012	
S502A	97P2343500	HOLDER TR	ABS		C309	HCQK509CCA	C CHIP CERA	50V CH 5PF C 2012	
S503	97P0S01900	SENSOR REEL	SG-258S	®	C310	HCLK391JCA	C CHIP CERA	50V SL 390PF J 2012	
S504	97P0S01900	SENSOR REEL	SG-258S		C312	HCLK201JCA	C CHIP CERA	50V SL 200PF J 2012	
T201	560202L697	COIL OSC	DEO-010(BIAS)	®	C314	HCLK101JCA	C CHIP CERA	50V SL 100PF J 2012	
T801	57M8282215	TRANS SMPS	TSW-K821D	®	C315	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
X051	5XJ18R4LAE	CRYSTAL QUARTZ	HC-49/S 18.43200MHZ 30PP	®	C316	HCLK561JCA	C CHIP CERA	50V SL 560PF J 2012	
X501	5XJ16R0LAE	CRYSTAL QUARTZ	HC-49/S 16.00000MHZ 30PPM		C317	HCQK131JCA	C CHIP CERA	50V CH 130PF J 2012	
X503	5XJ17R7LAD	CRYSTAL QUARTZ	HC-49/S 17.73447MHZ 25PPM		C321	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012	
Z361	5PDEQ0484-	FILTER LC	DELAY EQ 400NS		C324	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
11	PVMPJ1S109	PCB MAIN CHIP AS	DV-K823SY-AQ		C327	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
C007	HCLK101JCA	C CHIP CERA	50V SL 100PF J 2012		C333	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012	
C008	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		C334	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012	
C014	HCLK101JCA	C CHIP CERA	50V SL 100PF J 2012		C336	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012	
C051	HCQK390JCA	C CHIP CERA	50V CH 39PF J 2012		C337	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
C052	HCQK209CCA	C CHIP CERA	CH 50V 2PF C 2012		C339	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
C053	HCQK209CCA	C CHIP CERA	CH 50V 2PF C 2012		C343	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012	
C056	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012		C348	HCBK473KCA	C CHIP CERA	50V X7R 0.047MF K 2012	
C058	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012		C349	HCLK750JCA	C CHIP CERA	50V SL 75PF J 2012	
C153	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		C350	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012	
C157	HCBK563KCA	C CHIP CERA	50V X7R 0.056MF K 2012		C351	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012	
C159	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		C364	HCLK221JCA	C CHIP CERA	50V SL 220PF J 2012	
C161	HCQK220JCA	C CHIP CERA	50V CH 22PF J 2012		C366	HCLK681JCA	C CHIP CERA	50V SL 680PF J 2012	
C204	HCBK122KCA	C CHIP CERA	50V X7R 1200PF K 2012		C367	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012	

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DISC	REMARK	LOC	PART-CODE	PART-NAME	PART-DISC	REMARK
C369	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012		C632	HCQK330JCA	C CHIP CERA	50V CH 33PF J 2012	
C373	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		C633	HCQK330JCA	C CHIP CERA	50V CH 33PF J 2012	
C374	HCLK151JCA	C CHIP CERA	50V SL 150PF J 2012		C634	HCQK330JCA	C CHIP CERA	50V CH 33PF J 2012	
C381	HCLK221JCA	C CHIP CERA	50V SL 220PF J 2012		C635	HCLK101JCA	C CHIP CERA	50V SL 100PF J 2012	
C382	HCQK220JCA	C CHIP CERA	50V CH 22PF J 2012		C636	HCLK510JCA	C CHIP CERA	50V SL 51PF J 2012	
C383	HCQK750JCA	C CHIP CERA	50V CH 75PF J 2012		C640	HCLK201JCA	C CHIP CERA	50V SL 200PF J 2012	
C401	HCLK510JCA	C CHIP CERA	50V SL 51PF J 2012		C641	HCLK201JCA	C CHIP CERA	50V SL 200PF J 2012	
C403	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012		C642	HCLK201JCA	C CHIP CERA	50V SL 200PF J 2012	
C404	HCLK510JCA	C CHIP CERA	50V SL 51PF J 2012		C810	HCBK472KCA	C CHIP CERA	50V X7R 4700PF K 2012	
C407	HCQK300JCA	C CHIP CERA	50V CH 30PF J 2012		C811	HCBK473KCA	C CHIP CERA	50V X7R 0.047MF K 2012	
C408	HCQK300JCA	C CHIP CERA	50V CH 30PF J 2012		C812	HCBK473KCA	C CHIP CERA	50V X7R 0.047MF K 2012	
C409	HCQK300JCA	C CHIP CERA	50V CH 30PF J 2012		C825	HCBK683KCA	C CHIP CERA	50V X7R 0.068MF K 2012	
C410	HCQK300JCA	C CHIP CERA	50V CH 30PF J 2012		D801	DS1WBA60-C	DIODE BRIDGE	S1WBA60 4072 CHIP	®
C506	HCLK201JCA	C CHIP CERA	50V SL 200PF J 2012		IC051	1MSP3417DQ	IC NICAM	MSP3417D-QG	®
C507	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		IC151	1LC74793--	IC VPS(PDC)	LC74793	®
C509	HCBK222KCA	C CHIP CERA	50V X7R 2200PF K 2012		IC251	1TDA9605H-	IC HI-FI	TDA9605H	®
C510	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012		IC301	1LA71594M-	IC A/V I CHIP	LA71594M	®
C513	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012		IC361	1LA7358M--	IC SECAM.L	LA7358M(30PIN SOP)	®
C514	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012		IC501	168KK631TS	IC MICOM	M3777DM8A-2C2GP	®
C516	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		IC505	14ATM24S16	IC EPROM	AT24C16N-10SC	®
C520	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		IC601	1LA7148M--	IC A/V SW	LA7148M	®
C527	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		L607	HLX1210001	BEAD CHIP	TB201209Z121	®
C528	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		L608	HLX1210001	BEAD CHIP	TB201209Z121	
C529	HRFT000-CA	R CHIP	1/10 0 OHM 2012		L611	HLX1210001	BEAD CHIP	TB201209Z121	
C531	HCQK100DCA	C CHIP CERA	50V CH 10PF D 2012		Q302	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	®
C532	HCQK120JCA	C CHIP CERA	50V CH 12PF J 2012		Q306	T2SA1037KB	TR CHIP	2SA1037K-T146-R	
C533	HCQK120JCA	C CHIP CERA	50V CH 12PF J 2012		Q307	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
C534	HCQK100DCA	C CHIP CERA	50V CH 10PF D 2012		Q308	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
C545	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		Q309	T2SA1037KB	TR CHIP	2SA1037K-T146-R	
C547	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		Q330	T2SA1037KB	TR CHIP	2SA1037K-T146-R	
C548	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012		Q331	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
C553	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		Q362	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
C555	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012		Q363	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
C558	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		Q380	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
C559	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012		Q381	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
C562	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012		Q382	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
C563	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012		Q401	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
C564	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012		Q518	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
C612	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		Q520	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
C613	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		RJ01	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
C614	HCLK331JCA	C CHIP CERA	50V SL 330PF J 2012		RJ02	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
C615	HCLK331JCA	C CHIP CERA	50V SL 330PF J 2012		RJ03	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
C616	HCBK223KCA	C CHIP CERA	50V X7R 0.022MF K 2012		RJ05	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
C625	HCLK331JCA	C CHIP CERA	50V SL 330PF J 2012		RJ10	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
C626	HCLK331JCA	C CHIP CERA	50V SL 330PF J 2012		RJ11	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
C627	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		RJ12	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
C628	HCBK223KCA	C CHIP CERA	50V X7R 0.022MF K 2012		RJ14	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
C630	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		RJ16	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
C631	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012		RJ17	HRFT000-CA	R CHIP	1/10 0 OHM 2012	

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DISC	REMARK	LOC	PART-CODE	PART-NAME	PART-DISC	REMARK
RJ18	HRF8000-EA	R CHIP	1/8 0 OHM 3216		R227	HRFT229JCA	R CHIP	1/10 2.2 OHM J 2012	
RJ20	HRF8000-EA	R CHIP	1/8 0 OHM 3216		R228	HRFT229JCA	R CHIP	1/10 2.2 OHM J 2012	
RJ21	HRF8000-EA	R CHIP	1/8 0 OHM 3216		R229	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
RJ22	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R230	HRFT512JCA	R CHIP	1/10 5.1K OHM J 2012	
RJ23	HRF8000-EA	R CHIP	1/8 0 OHM 3216		R231	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
RJ24	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R240	HRFT512JCA	R CHIP	1/10 5.1K OHM J 2012	
RJ25	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R241	HRFT512JCA	R CHIP	1/10 5.1K OHM J 2012	
RJ26	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R251	HRFT335JCA	R CHIP	1/10 3.3M J 2012	
RJ27	HRF8000-EA	R CHIP	1/8 0 OHM 3216		R256	HRFT680JCA	R CHIP	1/10 68 OHM J 2012	
RJ28	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R257	HRFT242JCA	R CHIP	1/10 2.4K OHM J 2012	
RJ29	HRF8000-EA	R CHIP	1/8 0 OHM 3216		R258	HRFT680JCA	R CHIP	1/10 68 OHM J 2012	
RJ30	HRF8000-EA	R CHIP	1/8 0 OHM 3216		R259	HRFT242JCA	R CHIP	1/10 2.4K OHM J 2012	
RJ31	HRF8000-EA	R CHIP	1/8 0 OHM 3216		R260	HRFT680JCA	R CHIP	1/10 68 OHM J 2012	
RJ32	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R261	HRFT242JCA	R CHIP	1/10 2.4K OHM J 2012	
RJ35	HRF8000-EA	R CHIP	1/8 0 OHM 3216		R262	HRFT680JCA	R CHIP	1/10 68 OHM J 2012	
RJ37	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R263	HRFT242JCA	R CHIP	1/10 2.4K OHM J 2012	
RJ83	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R266	HRFT333JCA	R CHIP	1/10 33K OHM J 2012	
RJ84	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R270	HRFT333JCA	R CHIP	1/10 33K OHM J 2012	
RJ85	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R271	HRFT470JCA	R CHIP	1/10 47 OHM J 2012	
RJ86	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R302	HRFT273JCA	R CHIP	1/10 27K OHM J 2012	
RJ87	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R303	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
RJ90	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R305	HRFT122JCA	R CHIP	1/10 1.2K OHM J 2012	
RJ92	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R306	HRFT331JCA	R CHIP	1/10 330 OHM J 2012	
RJ93	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R307	HRFT331JCA	R CHIP	1/10 330 OHM J 2012	
RJ94	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R308	HRFT201JCA	R CHIP	1/10 200 OHM J 2012	
RJ97	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R309	HRFT561JCA	R CHIP	1/10 560 OHM J 2012	
RJ98	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R310	HRFT272JCA	R CHIP	1/10 2.7K OHM J 2012	
RJ99	HRFT000-CA	R CHIP	1/10 0 OHM 2012		R311	HRFT122JCA	R CHIP	1/10 1.2K OHM J 2012	
R007	HRFT223JCA	R CHIP	1/10 22K OHM J 2012		R312	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012	
R008	HRFT163JCA	R CHIP	1/10 16K OHM J 2012		R313	HRFT152JCA	R CHIP	1/10 1.5K OHM J 2012	
R012	HRFT150JCA	R CHIP	1/10 15 OHM J 2012		R316	HRFT563JCA	R CHIP	1/10 56K OHM J 2012	
R152	HRFT103JCA	R CHIP	1/10 10K OHM J 2012		R318	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
R153	HRFT562JCA	R CHIP	1/10 5.6K OHM J 2012		R319	HRFT105JCA	R CHIP	1/10 1M OHM J 2012	
R154	HRFT103JCA	R CHIP	1/10 10K OHM J 2012		R320	HRFT471JCA	R CHIP	1/10 470 OHM J 2012	
R155	HRFT182JCA	R CHIP	1/10 1.8K OHM J 2012		R322	HRFT155JCA	R CHIP	1/10 1.5M OHM J 2012	
R201	HRFT822JCA	R CHIP	1/10 8.2K OHM J 2012		R324	HRFT202JCA	R CHIP	1/10 2K OHM J 2012	
R205	HRFT273JCA	R CHIP	1/10 27K OHM J 2012		R325	HRFT392JCA	R CHIP	1/10 3.9K OHM J 2012	
R206	HRFT122JCA	R CHIP	1/10 1.2K OHM J 2012		R326	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
R211	HRFT392JCA	R CHIP	1/10 3.9K OHM J 2012		R327	HRFT272JCA	R CHIP	1/10 2.7K OHM J 2012	
R214	HRFT201JCA	R CHIP	1/10 200 OHM J 2012		R328	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
R215	HRFT392JCA	R CHIP	1/10 3.9K OHM J 2012		R329	HRFT822JCA	R CHIP	1/10 8.2K OHM J 2012	
R216	HRFT272JCA	R CHIP	1/10 2.7K OHM J 2012		R330	HRFT182JCA	R CHIP	1/10 1.8K OHM J 2012	
R217	HRFT103JCA	R CHIP	1/10 10K OHM J 2012		R331	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
R218	HRFT392JCA	R CHIP	1/10 3.9K OHM J 2012		R332	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
R219	HRFT682JCA	R CHIP	1/10 6.8K OHM J 2012		R349	HRFT101JCA	R CHIP	1/10 100 OHM J 2012	
R222	HRFT223JCA	R CHIP	1/10 22K OHM J 2012		R350	HRFT331JCA	R CHIP	1/10 330 OHM J 2012	
R223	HRFT821JCA	R CHIP	1/10 820 OHM J 2012		R361	HRFT223JCA	R CHIP	1/10 22K OHM J 2012	
R225	HRFT470JCA	R CHIP	1/10 47 OHM J 2012		R362	HRFT272JCA	R CHIP	1/10 2.7K OHM J 2012	
R226	HRFT152JCA	R CHIP	1/10 1.5K OHM J 2012		R366	HRFT752JCA	R CHIP	1/10 7.5K OHM J 2012	

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LOC	PART-CODE	PART-NAME	PART-DISC	REMARK	LOC	PART-CODE	PART-NAME	PART-DISC	REMARK
R369	HRFT102JCA	R CHIP	1/10 1K OHM J 2012		C018	CCXB1H332K	C CERA	50V B 3300PF K (TAPPING)	
R371	HRFT102JCA	R CHIP	1/10 1K OHM J 2012		C055	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R375	HRFT822JCA	R CHIP	1/10 8.2K OHM J 2012		C057	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R376	HRFT203JCA	R CHIP	1/10 20K OHM J 2012		C059	CEXF1H339A	C ELECTRO	50V RSM 3.3MF 4X7	
R377	HRFT154JCA	R CHIP	1/10 150K OHM J 2012		C061	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R380	HRFT102JCA	R CHIP	1/10 1K OHM J 2012		C063	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
R381	HRFT302JCA	R CHIP	1/10 3K OHM J 2012		C064	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R382	HRFT202JCA	R CHIP	1/10 2K OHM J 2012		C065	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R383	HRFT102JCA	R CHIP	1/10 1K OHM J 2012		C066	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R384	HRFT202JCA	R CHIP	1/10 2K OHM J 2012		C151	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R385	HRFT272JCA	R CHIP	1/10 2.7K OHM J 2012		C152	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
R386	HRFT102JCA	R CHIP	1/10 1K OHM J 2012		C154	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
R407	HRFT103JCA	R CHIP	1/10 10K OHM J 2012		C158	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
R408	HRFT333JCA	R CHIP	1/10 33K OHM J 2012		C201	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	
R409	HRFT512JCA	R CHIP	1/10 5.1K OHM J 2012		C202	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
R5B3	HRFT103JCA	R CHIP	1/10 10K OHM J 2012		C203	CCXB1H122K	C CERA	50V B 1200PF K (TAPPING)	
R504	HRFT103JCA	R CHIP	1/10 10K OHM J 2012		C205	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R507	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012		C208	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
R508	HRFT121JCA	R CHIP	1/10 120 OHM J 2012		C210	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
R511	HRFT121JCA	R CHIP	1/10 120 OHM J 2012		C212	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
R514	HRFT304JCA	R CHIP	1/10 300K OHM J 2012		C214	CMXM2A822J	C MYLAR	100V 8200PF J (TP)	
R549	HRFT102JCA	R CHIP	1/10 1K OHM J 2012		C218	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R550	HRFT182JCA	R CHIP	1/10 1.8K OHM J 2012		C219	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R551	HRFT102JCA	R CHIP	1/10 1K OHM J 2012		C220	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	
R552	HRFT561JCA	R CHIP	1/10 560 OHM J 2012		C221	CMXM2A273J	C MYLAR	100V 0.027MF J (TP)	
R555	HRFT223JCA	R CHIP	1/10 22K OHM J 2012		C222	CMXM2A243J	C MYLAR	100V 0.024MF J (TP)	
R556	HRFT103JCA	R CHIP	1/10 10K OHM J 2012		C223	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
R557	HRFT102JCA	R CHIP	1/10 1K OHM J 2012		C225	CMXM2A273J	C MYLAR	100V 0.027MF J (TP)	
R558	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012		C259	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R561	HRFT102JCA	R CHIP	1/10 1K OHM J 2012		C260	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R563	HRFT273JCA	R CHIP	1/10 27K OHM J 2012		C261	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R565	HRFT201JCA	R CHIP	1/10 200 OHM J 2012		C262	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R568	HRFT471JCA	R CHIP	1/10 470 OHM J 2012		C264	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R572	HRFT103JCA	R CHIP	1/10 10K OHM J 2012		C265	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R583	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012		C270	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R587	HRFT103JCA	R CHIP	1/10 10K OHM J 2012		C272	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R588	HRFT201JCA	R CHIP	1/10 200 OHM J 2012		C273	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R594	HRFT104JCA	R CHIP	1/10 100K OHM J 2012		C274	CEXF1H229A	C ELECTRO	50V RSM 2.2MF (4X7) TP	
R605	HRFT512JCA	R CHIP	1/10 5.1K OHM J 2012		C275	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R606	HRFT750JCA	R CHIP	1/10 75 OHM J 2012		C276	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
R611	HRFT750JCA	R CHIP	1/10 75 OHM J 2012		C278	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
R613	HRFT750JCA	R CHIP	1/10 75 OHM J 2012		C279	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
12	PVMPJRS109	PCB MAIN RADIAL AS	DV-K823SY-AQ		C283	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C001	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7		C291	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
C004	CEXF1A101A	C ELECTRO	10V RSM 100MF 6.3X7		C292	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7	
C013	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		C301	CEXF1H108A	C ELECTRO	50V RSM 0.1MF 4X7	
C015	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		C303	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C016	CEXF1H228A	C ELECTRO	50V RSM 0.22MF (4X7)		C305	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C017	CCXB1H332K	C CERA	50V B 3300PF K (TAPPING)		C311	CEXF1H339A	C ELECTRO	50V RSM 3.3MF 4X7	

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DISC	REMARK	LOC	PART-CODE	PART-NAME	PART-DISC	REMARK
C318	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7		C828	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP	
C319	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)		C829	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP	
C322	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		C830	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
C326	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		C831	CEXF1A471V	C ELECTRO	10V RSS 470MF 8X11.5	
C328	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		C833	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C330	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7		C834	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C338	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		C835	CEXF1A471V	C ELECTRO	10V RSS 470MF 8X11.5	
C340	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		F801	5FSPS2022L	FUSE PLASTIC TUBE	SEMKO 2A 250V TL(ETF2AP)	®
C342	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		IC504	1K1A7042AP	IC REGULATOR	KIA7042AP	®
C344	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		IC802	1KA431AZ--	IC REGULATOR	KA431AZ	
C346	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		L001	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C362	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		L002	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C363	CMXM2A123J	C MYLAR	100V 0.012MF J (TP)		L051	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
C365	CEXF1H478A	C ELECTRO	50V RSM 0.47MF 4X7		L052	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
C368	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7		L053	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C370	CEXF1H478A	C ELECTRO	50V RSM 0.47MF 4X7		L201	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
C375	CMXM2A222J	C MYLAR	100V 2200PF J (TP)		L202	5CPX680J2T	COIL PEAKING	68UH(BLU-BLK)	
C376	CMXM2A222J	C MYLAR	100V 2200PF J (TP)		L250	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
C377	CEXF1H229A	C ELECTRO	50V RSM 2.2MF (4X7) TP		L302	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C378	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L303	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C380	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		L305	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C384	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)		L306	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C402	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L361	5CPX270J--	COIL PEAKING	27UH J (RADIAL)	
C405	CEXF1C100A	C ELECTRO	16V RSM 10MF 4X7		L362	5CPX221J2T	COIL PEAKING	220UH(RED-BRN)	
C406	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		L363	5CPX680J2T	COIL PEAKING	68UH(BLU-BLK)	
C502	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	®	L364	5CPX689J2T	COIL PEAKING	6.8UH(BLU ---)	
C503	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP		L365	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C505	CEXF1H229A	C ELECTRO	50V RSM 2.2MF (4X7) TP		L401	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C508	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L505	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C511	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L506	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C512	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP		L601	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
C515	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L804	56X0000009	COIL BEAD	BLI 7.5 TAPPING	®
C523	CEXF1A101A	C ELECTRO	10V RSM 100MF 6.3X7		L813	56C220K695	COIL CHOKE(CAP TYPE)	22UH K (CAP TYPE) 9X11.1	
C525	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		L814	5CPX680J2T	COIL PEAKING	68UH(BLU-BLK)	
C540	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		Q001	TZRC104M--	TR	KRC104M AUTO	
C544	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		Q002	TZTA1273Y-	TR	KTA1273Y(966Y)	
C549	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP		Q003	TZTC3205Y-	TR	KTC3205Y (2236Y)	
C608	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		Q201	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	
C609	CEXE1H109F	C ELECTRO	50V RMB 1MF 4*7		Q202	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
C610	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		Q203	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)	
C611	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		Q204	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
C618	CEXF1A471V	C ELECTRO	10V RSS 470MF 8X11.5		Q205	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
C619	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		Q206	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	
C620	CEXF1A471V	C ELECTRO	10V RSS 470MF 8X11.5		Q301	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
C622	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		Q305	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
C806	CEXF2C109V	C ELECTRO	160V RSS 1MF (6.3X11) TP		Q361	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
C809	CMXL2G333K	C MYLAR	400V MEU 0.033MF K		Q364	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	
C824	CEXK1J220L	C ELECTRO	63V 22UF KXL		Q383	TZRC104M--	TR	KRC104M AUTO	
C826	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP		Q505	TZRC102M--	TR	KRC102M(KEC)	

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DISC	REMARK	LOC	PART-CODE	PART-NAME	PART-DISC	REMARK
Q506	TZTC3203Y-	TR	KTC3203Y (2120Y)		C302	CCZF1H473Z	C CERA	50V F 0.047MF Z	
Q507	TZTC3203Y-	TR	KTC3203Y (2120Y)		C323	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z	
Q508	TZTC3203Y-	TR	KTC3203Y (2120Y)		C325	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z	
Q509	TZTC3203Y-	TR	KTC3203Y (2120Y)		C329	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z	
Q510	TZTC3203Y-	TR	KTC3203Y (2120Y)		C331	CCZF1H105Z	C CERA AXIAL	50V F 1MF Z	
Q511	TZTC3203Y-	TR	KTC3203Y (2120Y)		C332	CCZF1H105Z	C CERA AXIAL	50V F 1MF Z	
Q512	TZTC3203Y-	TR	KTC3203Y (2120Y)		C335	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
Q513	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)		C341	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
Q514	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)		C345	CBZF1E223Z	C CERA SEMI	25V Y5V 0.022MF Z	
Q515	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)		C347	CBZF1E223Z	C CERA SEMI	25V Y5V 0.022MF Z	
Q516	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)		C353	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
Q517	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)		C361	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z	
Q519	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)		C371	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
Q521	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)		C372	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z	
Q601	TZSR2001--	TR	KSR2001 (AUTO)		C379	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
Q602	TZRC104M--	TR	KRC104M AUTO		C501	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
Q603	TZRC104M--	TR	KRC104M AUTO		C517	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
Q604	TZRC102M--	TR	KRC102M(KEC)		C518	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
Q802	TZTC3203Y-	TR	KTC3203Y (2120Y)	®	C521	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
Q821	TZTC3205Y-	TR	KTC3205Y (2236Y)		C526	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
Q823	TZTC3205Y-	TR	KTC3205Y (2236Y)		C537	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
Q824	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)		C538	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
SW502	5S50101Z97	SW TACT	SKHV10914B 9.5M AUTO		C541	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
SW503	5S50101Z97	SW TACT	SKHV10914B 9.5M AUTO		C546	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
SW504	5S50101Z97	SW TACT	SKHV10914B 9.5M AUTO		C550	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
SW505	5S50101Z97	SW TACT	SKHV10914B 9.5M AUTO		C551	CBZF1E223Z	C CERA SEMI	25V Y5V 0.022MF Z	
SW506	5S50101Z97	SW TACT	SKHV10914B 9.5M AUTO		C552	CBZF1E223Z	C CERA SEMI	25V Y5V 0.022MF Z	
SW507	5S50101Z97	SW TACT	SKHV10914B 9.5M AUTO		C832	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M	
SW508	5S50101Z97	SW TACT	SKHV10914B 9.5M AUTO		D001	DZN4148---	DIODE	1N4148 AUTO 52MM	
SW509	5S50101Z97	SW TACT	SKHV10914B 9.5M AUTO		D003	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)	
X301	5XE4R433TB	CRYSTAL QUARTZ	HC-49/U 4.433619MHZ 15PPM		D051	DZN4148---	DIODE	1N4148 AUTO 52MM	
13	PVMPJAS109	PCB MAIN AXIAL AS	DV-K823SY-AQ		D301	DZN4148---	DIODE	1N4148 AUTO 52MM	
AM31	2TM1456000	TAPE MASKING	SI-602		D362	DZN4148---	DIODE	1N4148 AUTO 52MM	
AM31A	2TM110620R	TAPE MASKING	SI-600N RED		D504	DZN4148---	DIODE	1N4148 AUTO 52MM	
AM31B	2TM1106200	TAPE MASKING	SI-600N		D509	DZN4148---	DIODE	1N4148 AUTO 52MM	
C002	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M		D511	DZN4148---	DIODE	1N4148 AUTO 52MM	
C003	CCZB1H101K	C CERA	50V B 100PF K		D515	DZN4003---	DIODE	IN4003(DAEBO)	
C005	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M		D517	DZN4148---	DIODE	1N4148 AUTO 52MM	
C006	CCZB1H101K	C CERA	50V B 100PF K		D519	DZN4003---	DIODE	IN4003(DAEBO)	
C012	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M		D522	DZN4148---	DIODE	1N4148 AUTO 52MM	
C054	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M		D523	DZUZ6R2BSC	DIODE ZENER	UZ-6.2BSC(6.16-6.40)	
C060	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z		D526	DZN4003---	DIODE	IN4003(DAEBO)	
C062	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z		D527	DZN4003---	DIODE	IN4003(DAEBO)	
C067	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z		D531	DZN4148---	DIODE	1N4148 AUTO 52MM	
C160	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M		D532	DZN4148---	DIODE	1N4148 AUTO 52MM	
C206	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M		D533	DZN4148---	DIODE	1N4148 AUTO 52MM	
C209	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z		D534	DZN4148---	DIODE	1N4148 AUTO 52MM	
C217	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z		D535	DZN4148---	DIODE	1N4148 AUTO 52MM	
C284	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z		D536	DZN4148---	DIODE	1N4148 AUTO 52MM	

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DISC	REMARK	LOC	PART-CODE	PART-NAME	PART-DISC	REMARK
D537	85801060TA	WIRE COPPER	0.6X52MM TAPING		JP038	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D602	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		JP039	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D603	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		JP041	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D604	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		JP045	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D605	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		JP050	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D610	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP051	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D611	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP059	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D612	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP064	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D613	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP065	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D614	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP068	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D615	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP084	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D616	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP085	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D617	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP086	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D618	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		JP089	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D619	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP090	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D621	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP091	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D622	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP092	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D623	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP093	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D624	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP094	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D625	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		JP095	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D626	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		JP096	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D627	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		JP097	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D628	DZN4148---	DIODE	1N4148 AUTO 52MM		JP099	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D629	85801060TA	WIRE COPPER	0.6X52MM TAPING		JP102	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D802	DZEG01C---	DIODE	EG01C		JP107	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D803	DZN4003---	DIODE	1N4003(DAEB0)		JP121	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D804	DZUZ3R0BSB	DIODE ZENER	UZ-3.0BSB(3.01-3.22V)		JP129	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D805	DZN4148---	DIODE	1N4148 AUTO 52MM		JP176	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D823	DZGDZP16B-	DIODE ZENER	GDZP16B1	®	JP204	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D825	D1SS244---	DIODE	1SS244		JP266	85801060TA	WIRE COPPER	0.6X52MM TAPING	
D826	DZUZ33BSB-	DIODE ZENER	UZ-33BSB(30.32-31.38V)		L151	5CPZ569K02	COIL PEAKING	5.6UH K (AXIAL 3.5MM)	
D827	DZZ10BM---	DIODE ZENER	UZ-10BM		L251	5CPZ101K02	COIL PEAKING	100UH K (AXIAL 3.5MM)	
D828	DZEU01Z---	DIODE	EU01Z	®	L301	5CPZ560K02	COIL PEAKING	56UH K (AXIAL 3.5MM)	
D829	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		L311	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
D830	DZN4003---	DIODE	1N4003(DAEB0)		L602	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
JP002	85801060TA	WIRE COPPER	0.6X52MM TAPING		L604	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
JP004	85801060TA	WIRE COPPER	0.6X52MM TAPING		L605	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
JP005	85801060TA	WIRE COPPER	0.6X52MM TAPING		L606	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
JP006	85801060TA	WIRE COPPER	0.6X52MM TAPING		L609	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J	
JP007	85801060TA	WIRE COPPER	0.6X52MM TAPING		L610	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J	
JP008	85801060TA	WIRE COPPER	0.6X52MM TAPING		L612	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
JP010	85801060TA	WIRE COPPER	0.6X52MM TAPING		L613	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
JP011	85801060TA	WIRE COPPER	0.6X52MM TAPING		L803	5PB13857--	COIL BEAD	B13857(AXIAL)	
JP019	85801060TA	WIRE COPPER	0.6X52MM TAPING		L812	5PB13857--	COIL BEAD	B13857(AXIAL)	
JP020	85801060TA	WIRE COPPER	0.6X52MM TAPING		R001	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
JP023	85801060TA	WIRE COPPER	0.6X52MM TAPING		R002	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
JP034	85801060TA	WIRE COPPER	0.6X52MM TAPING		R003	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
JP035	85801060TA	WIRE COPPER	0.6X52MM TAPING		R004	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
JP037	85801060TA	WIRE COPPER	0.6X52MM TAPING		R005	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DISC	REMARK	LOC	PART-CODE	PART-NAME	PART-DISC	REMARK
R006	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J		R405	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J	
R009	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R406	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J	
R010	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R5A1	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J	
R011	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J		R5A3	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R051	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		R5A4	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R052	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		R5A9	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R053	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J		R5B1	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R054	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R501	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J	
R15A	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J		R502	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R15B	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J		R503	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R202	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J		R505	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R203	RD-AZ334J-	R CARBON FILM	1/6 330K OHM J		R506	RD-AZ201J-	R CARBON FILM	1/4 200 OHM J	
R204	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J		R509	RD-AZ474J-	R CARBON FILM	1/6 470K OHM J	
R209	RD-AZ225J-	R CARBON FILM	1/6 2.2M OHM J		R513	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R221	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J		R515	RD-AZ474J-	R CARBON FILM	1/6 470K OHM J	
R224	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J		R516	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R232	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J		R517	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R233	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J		R518	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R234	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R519	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R264	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R520	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R265	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J		R521	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R267	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J		R522	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R268	RN-AZ3902F	R METAL FILM	1/6 39K OHM F		R523	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R269	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J		R524	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R272	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J		R525	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R273	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J		R526	RD-AZ430J-	R CARBON FILM	1/6 43 OHM J	
R274	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J		R527	RD-AZ430J-	R CARBON FILM	1/6 43 OHM J	
R275	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J		R528	RD-AZ430J-	R CARBON FILM	1/6 43 OHM J	
R276	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J		R529	RD-AZ430J-	R CARBON FILM	1/6 43 OHM J	
R277	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J		R530	RD-AZ430J-	R CARBON FILM	1/6 43 OHM J	
R278	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J		R531	RD-AZ430J-	R CARBON FILM	1/6 43 OHM J	
R301	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J		R532	RD-AZ430J-	R CARBON FILM	1/6 43 OHM J	
R304	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J		R533	RD-AZ270J-	R CARBON FILM	1/6 27 OHM J	
R314	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J		R534	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J	
R315	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J		R535	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J	
R317	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J		R536	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J	
R321	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J		R537	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J	
R333	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		R538	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J	
R335	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R539	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J	
R357	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J		R540	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J	
R363	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J		R541	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J	
R367	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R542	RD-AZ105J-	R CARBON FILM	1/6 1M OHM J	
R368	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J		R544	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J	
R370	RD-AZ513J-	R CARBON FILM	1/6 51K OHM J		R545	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R372	RD-AZ513J-	R CARBON FILM	1/6 51K OHM J		R546	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R373	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J		R547	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J	
R374	RD-AZ912J-	R CARBON FILM	1/6 9.1K OHM J		R548	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
R403	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J		R553	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
R404	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J		R554	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DISC	REMARK	LOC	PART-CODE	PART-NAME	PART-DISC	REMARK
R559	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R821	RD-4Z360JS	R CARBON FILM	1/4 36 OHM J SMALL	
R560	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R822	RD-AZ182G-	R CARBON FILM	1/6 1.8K OHM G	
R562	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J		R823	RD-AZ680J-	R CARBON FILM	1/6 68 OHM J	
R564	RD-AZ201J-	R CARBON FILM	1/6 200 OHM J		R824	RD-AZ470G-	R CARBON FILM	1/6 47 OHM G	
R566	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J		R825	RD-AZ132G-	R CARBON FILM	1/6 1.3K OHM G	
R567	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J		R827	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J	
R569	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J		R830	RD-2Z301JS	R CARBON FILM	1/2 300 OHM J SMALL	
R570	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R832	RD-AZ100J-	R CARBON FILM	1/6 10 OHM J	
R571	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		UM01	97P65272MA	PCB MAIN	330X246X1.6T(K823S)	
R573	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		14	PVMPJVS109	PCB MAIN J/V ONLY AS	"DV-K823SY-AQ(272MA,HIFI)"	
R574	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		JP003	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R575	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		JP012	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R576	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		JP013	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R577	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J		JP014	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R578	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J		JP015	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R579	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J		JP016	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R580	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		JP017	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R581	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J		JP018	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R582	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		JP021	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R584	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J		JP022	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R585	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		JP025	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R586	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J		JP026	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R589	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J		JP027	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R590	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J		JP028	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R598	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J		JP029	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R599	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J		JP030	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R602	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J		JP031	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R603	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J		JP032	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R604	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J		JP033	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R607	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J		JP036	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R608	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J		JP040	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R609	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J		JP042	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R610	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		JP043	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R614	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J		JP044	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R615	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J		JP046	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R616	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J		JP047	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R617	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J		JP048	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R618	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J		JP049	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R619	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J		JP052	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R631	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J		JP053	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R632	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J		JP054	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R801	RC-2Z565KP	R CARBON COMP	1/2 5.6M OHM K		JP055	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R802	RC-2Z565KP	R CARBON COMP	1/2 5.6M OHM K		JP056	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R804	RD-4Z394JS	R CARBON FILM	1/4 390K OHM J SMALL		JP057	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R805	RD-4Z394JS	R CARBON FILM	1/4 390K OHM J SMALL		JP058	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R806	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J		JP060	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R809	RD-2Z820JS	R CARBON FILM	1/2 82 OHM J SMALL		JP061	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R810	RD-2Z820JS	R CARBON FILM	1/2 82 OHM J SMALL		JP062	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R811	RD-AZ681J-	R CARBON FILM	1/6 680 OHM J		JP063	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	

ELECTRICAL PARTS LIST

[illegible]

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DISC	REMARK
JP206	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP207	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP208	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP209	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP210	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP211	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP212	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP213	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP214	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP216	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP217	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP219	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP220	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP221	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP222	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP223	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP224	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP225	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP226	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP227	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP228	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP229	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP230	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP231	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP232	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP233	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP234	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP236	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP237	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP238	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP239	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	

DAEWOO

DAEWOO ELECTRONICS CO., LTD

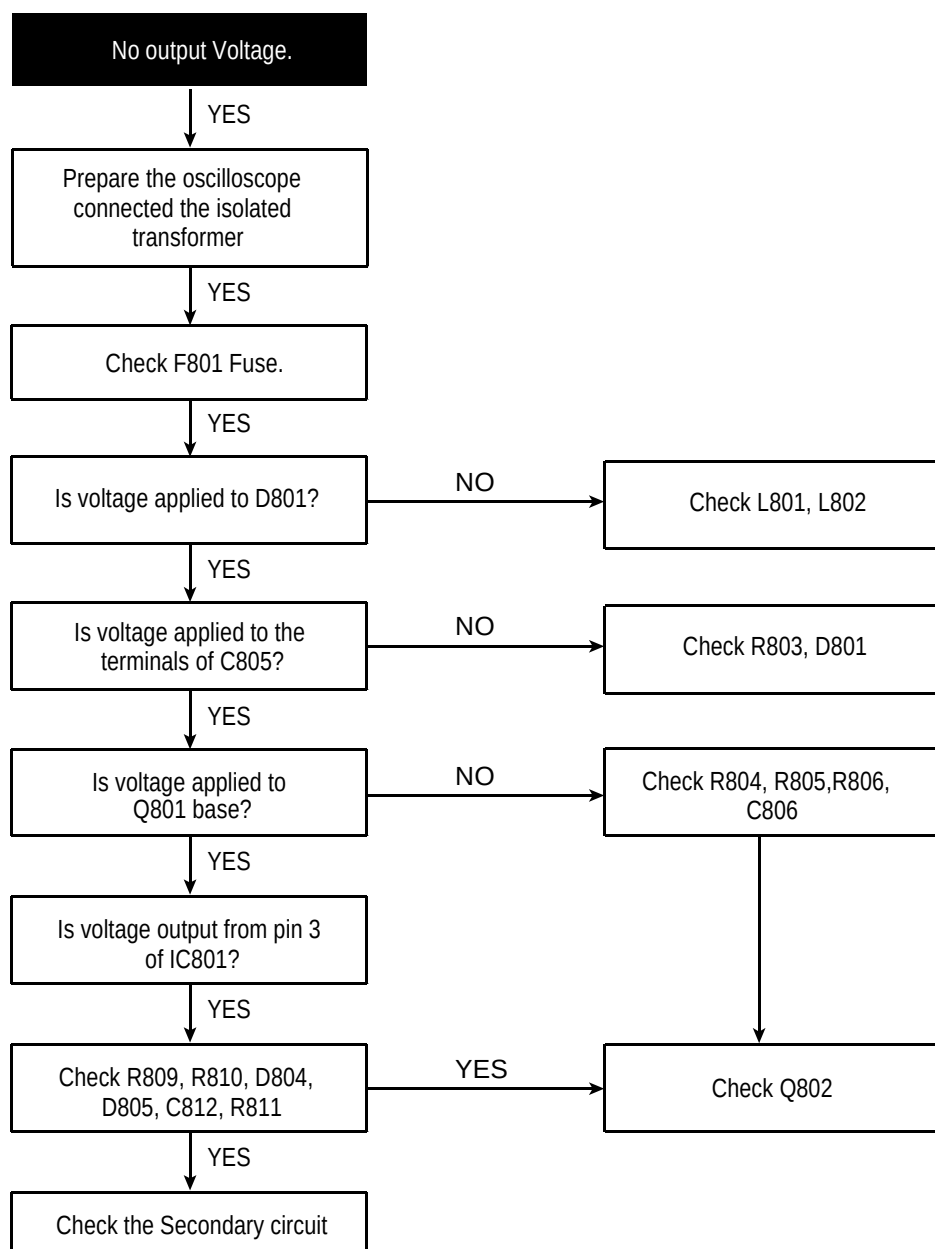
686, AHYEON-DONG MAPO-GU
SEOUL, KOREA
C.P.O. BOX 8003 SEOUL, KOREA
TELEX : DWELEC K28177-8
CABLE : 'DAEWOOELEC'
E-mail : leesk@web.dwe.co.kr
TEL : 82-2-360-7802
FAX : 82-2-360-7877

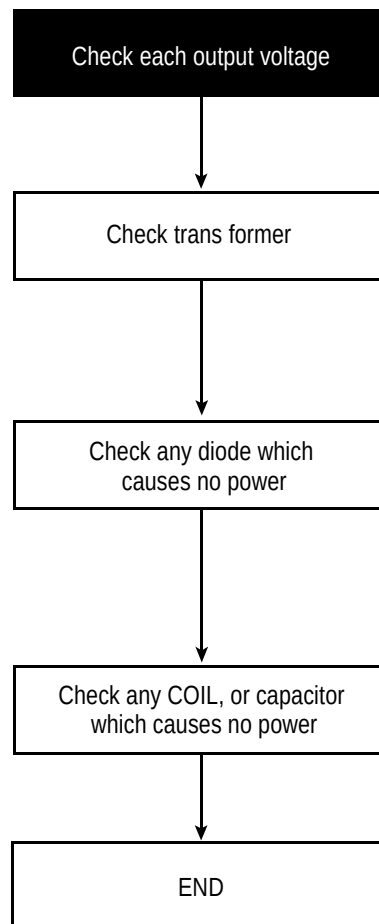
1. POWER CIRCUIT

When changing the parts which are broken first, remove the power plug from the socket and then discharge the voltage across the terminals of C805. (Use an external $K \Omega$ resistance)

When check the primary circuit , use the oscilloscope isolated properly (Use the isolated transformer) and connect GND to the primary GND, however it is not necessary to isolate the oscilloscope when check the secondary circuit.

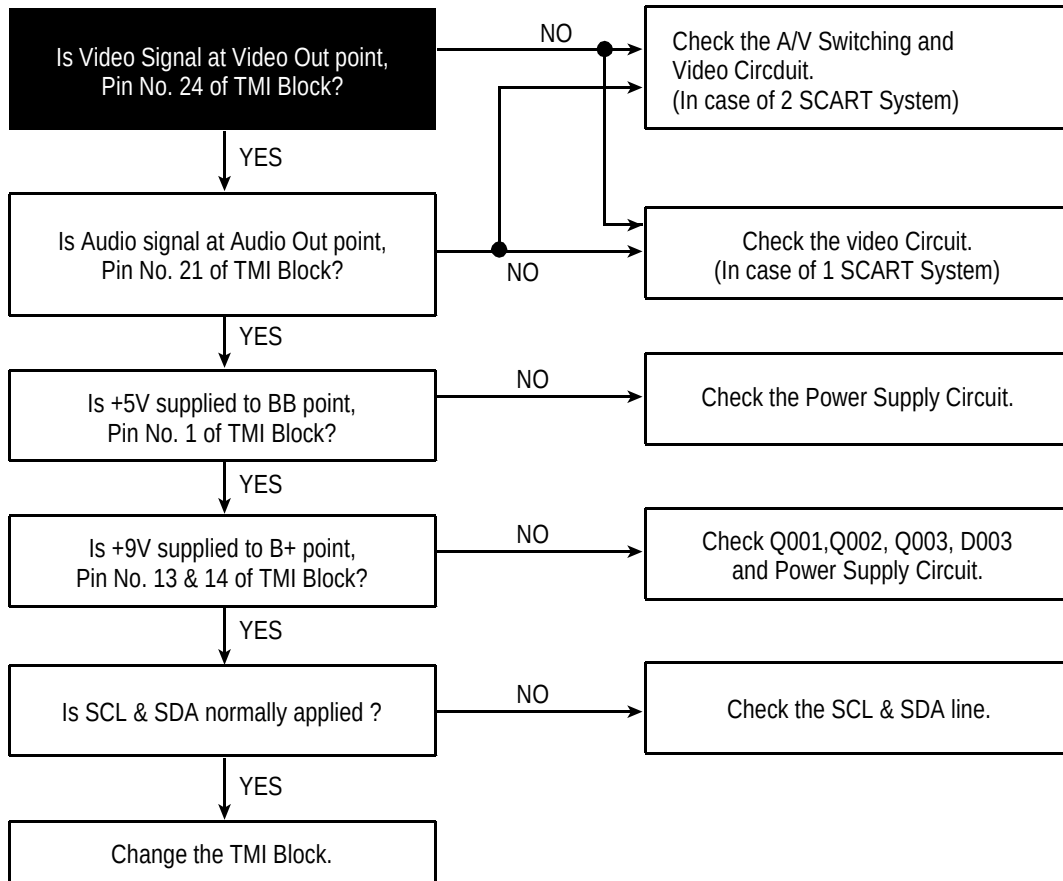
A. CHECKING THE PRIMARY CIRCUIT.



B. CHECKING THE SECONDARY CIRCUIT.

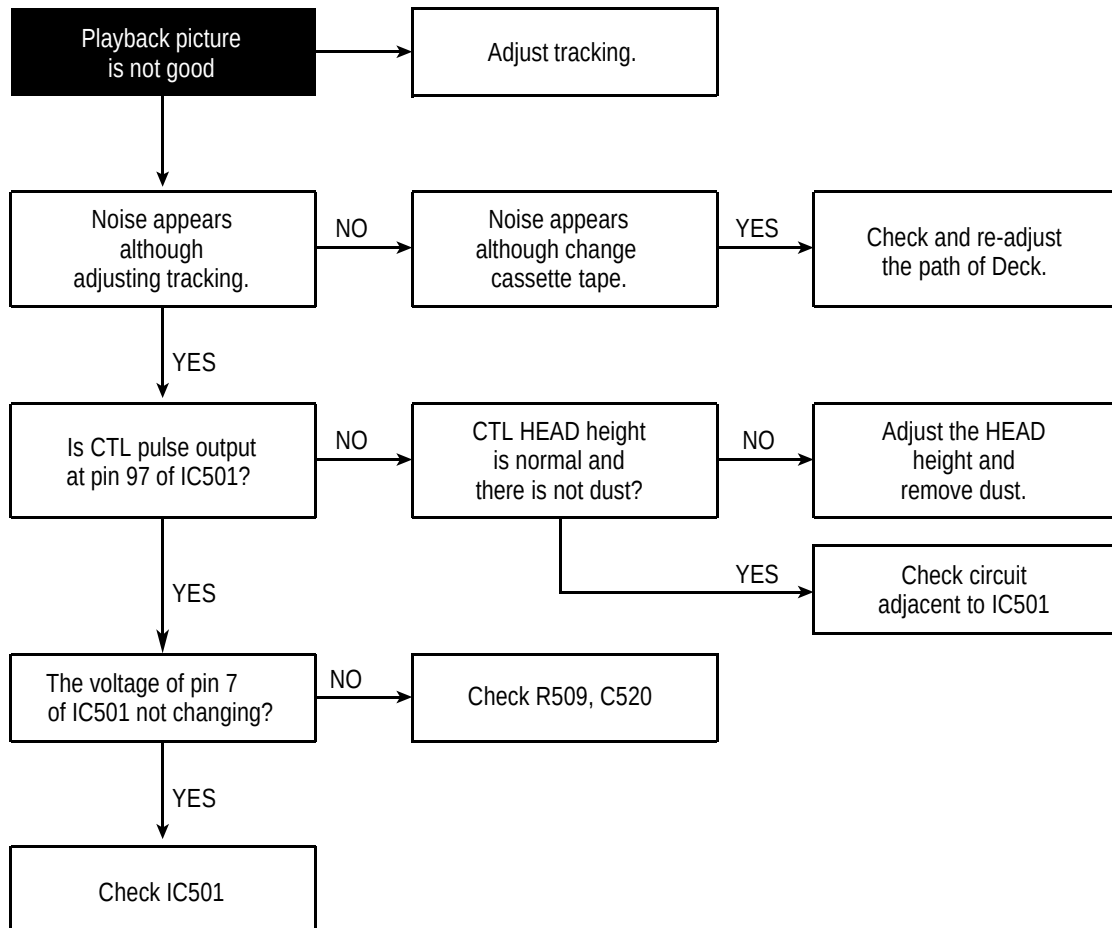
2. PIF CIRCUIT

A. TROUBLESHOOTING OF RF RECEIVING CIRCUIT (FOR TMI APPLIED SYSTEM)

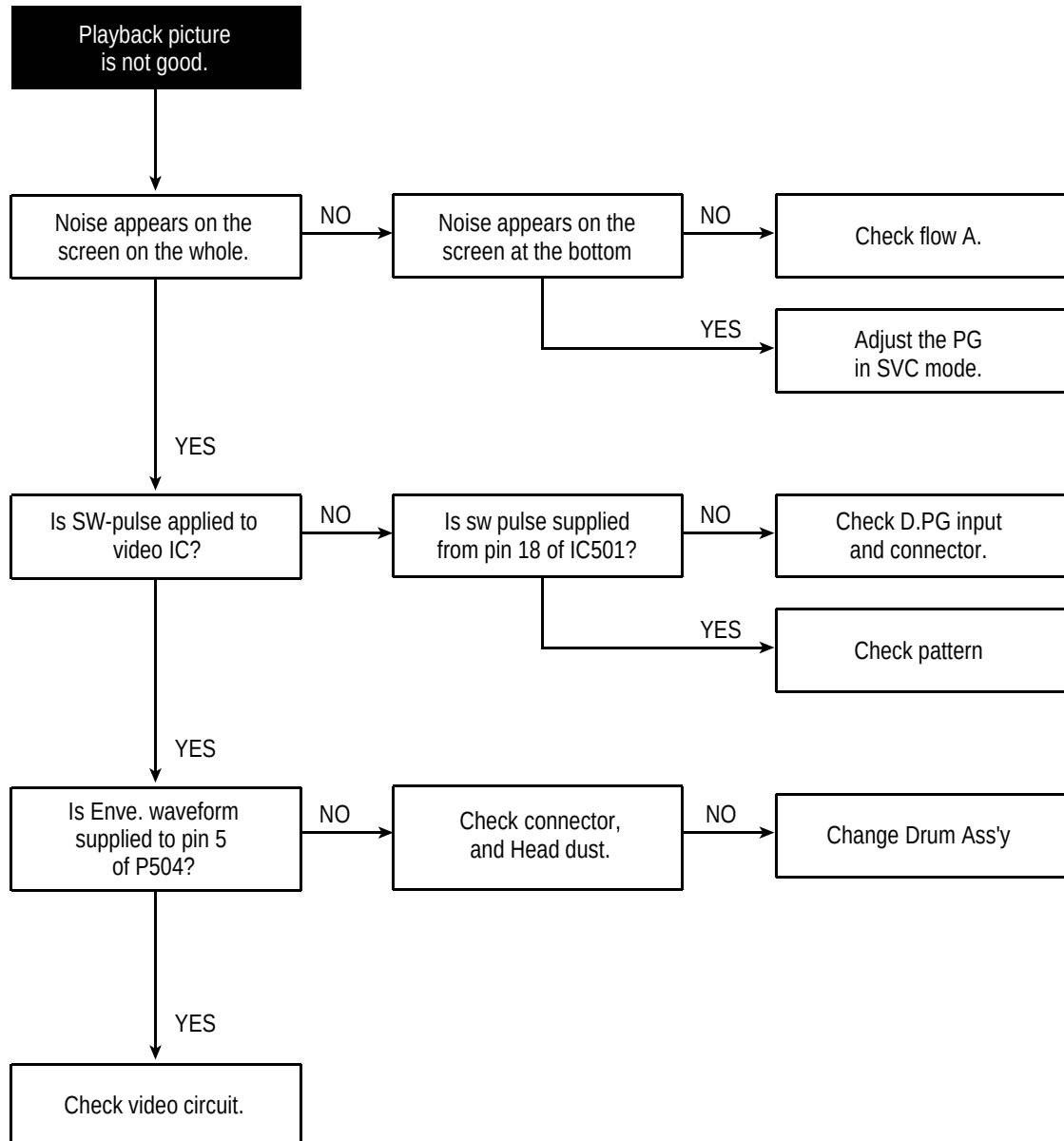


3. SERVO-SYSCON CIRCUIT

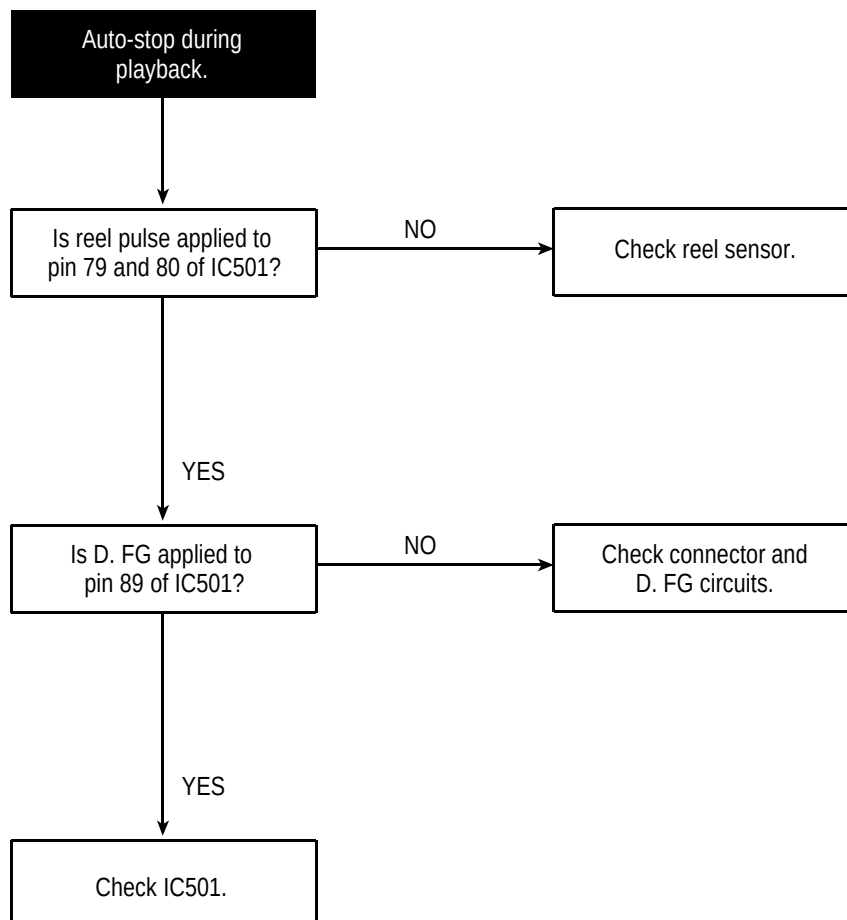
A.



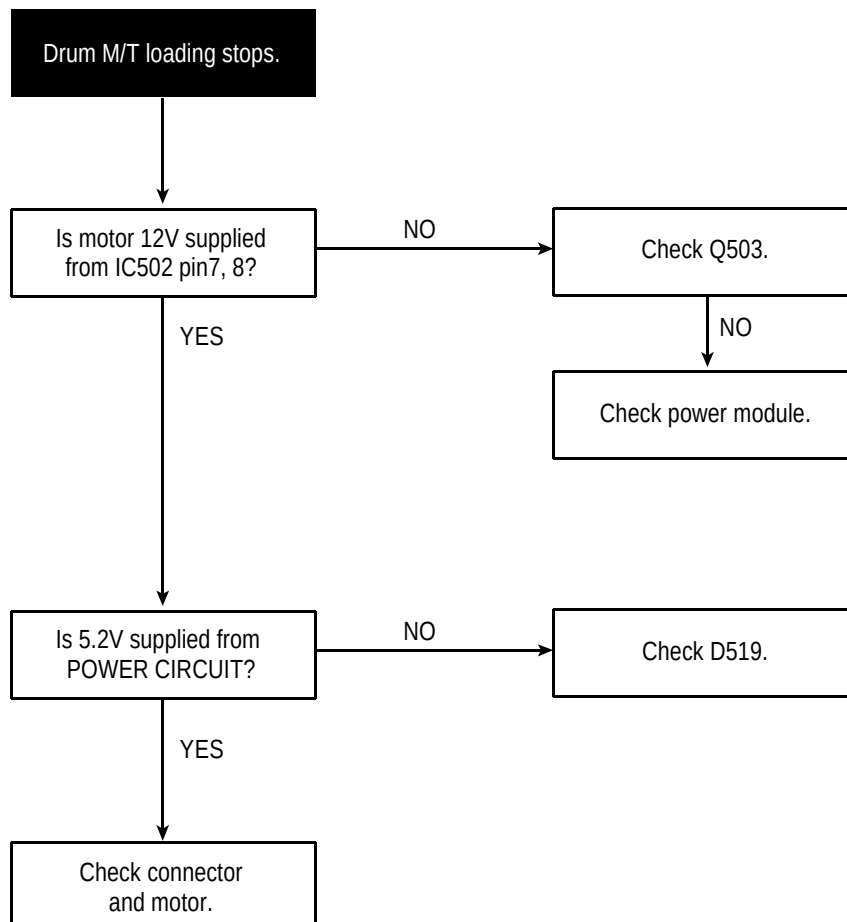
B.



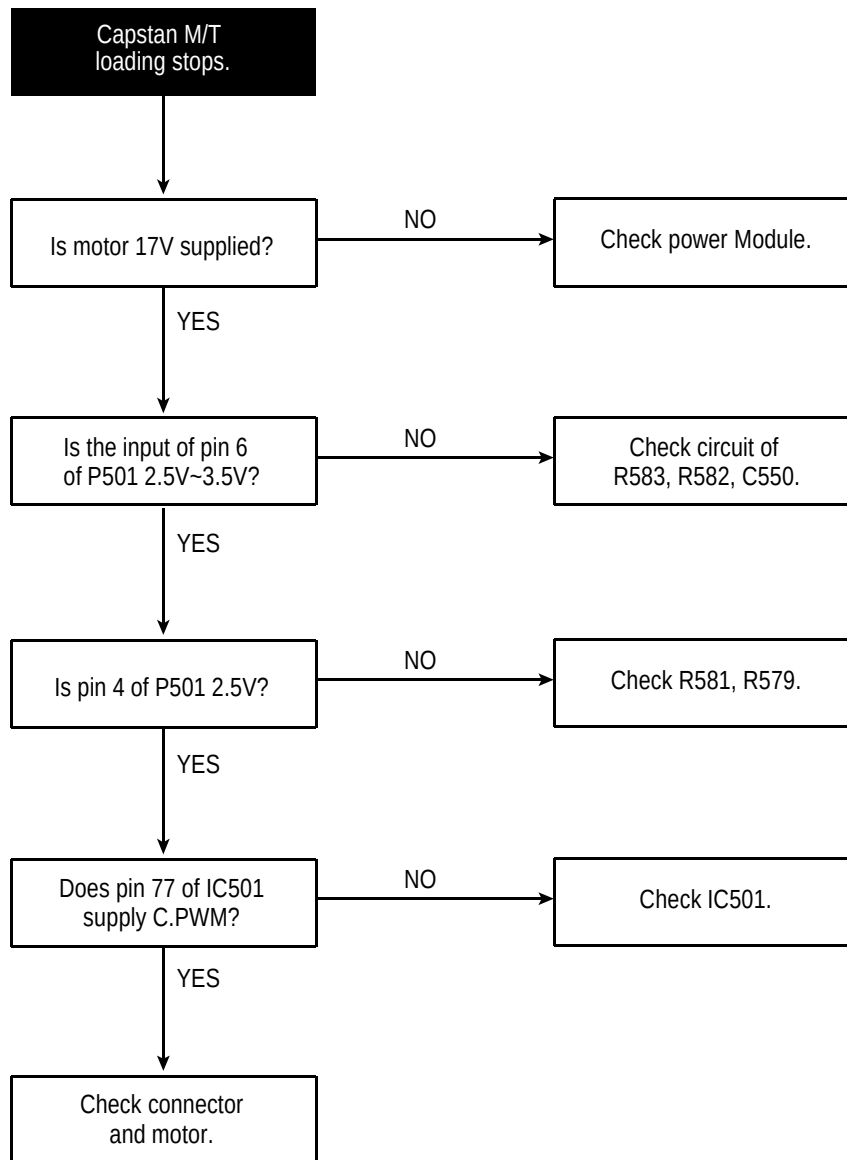
C.



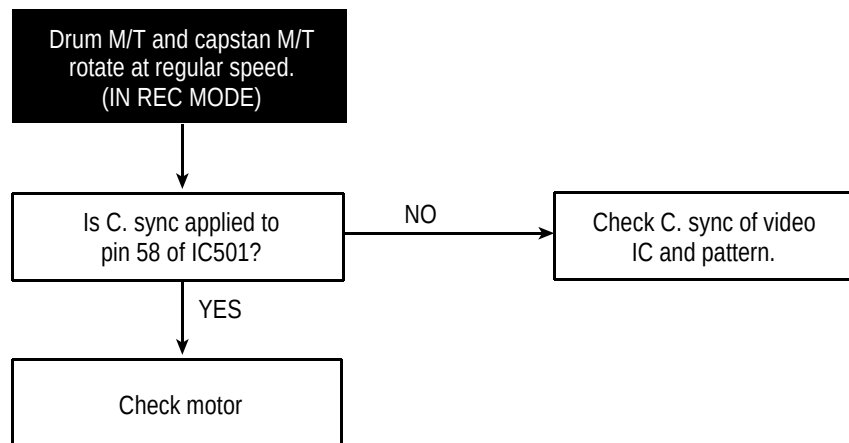
D.



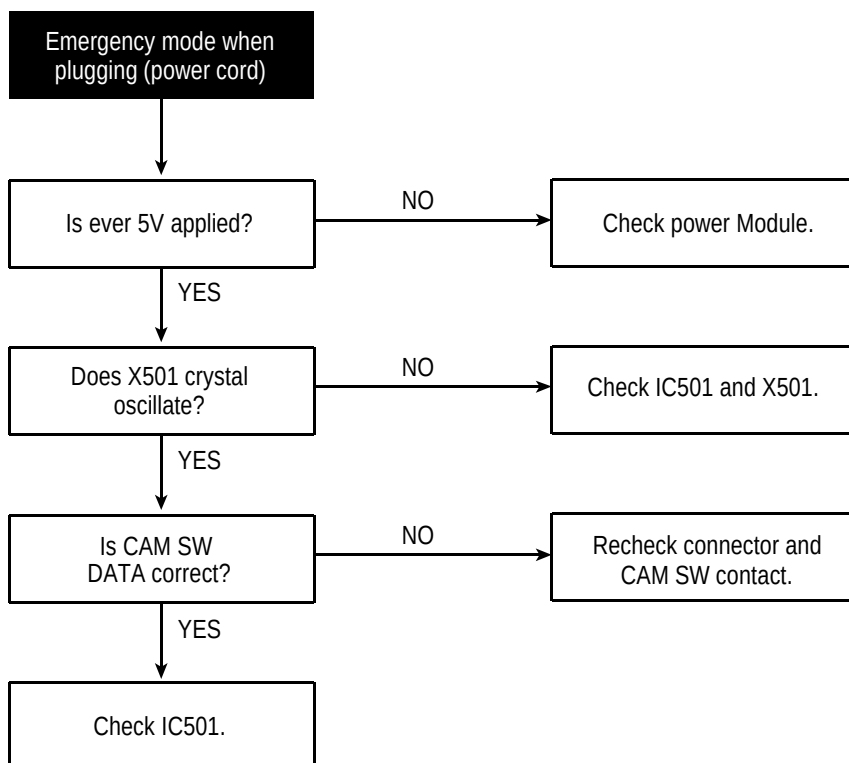
E.



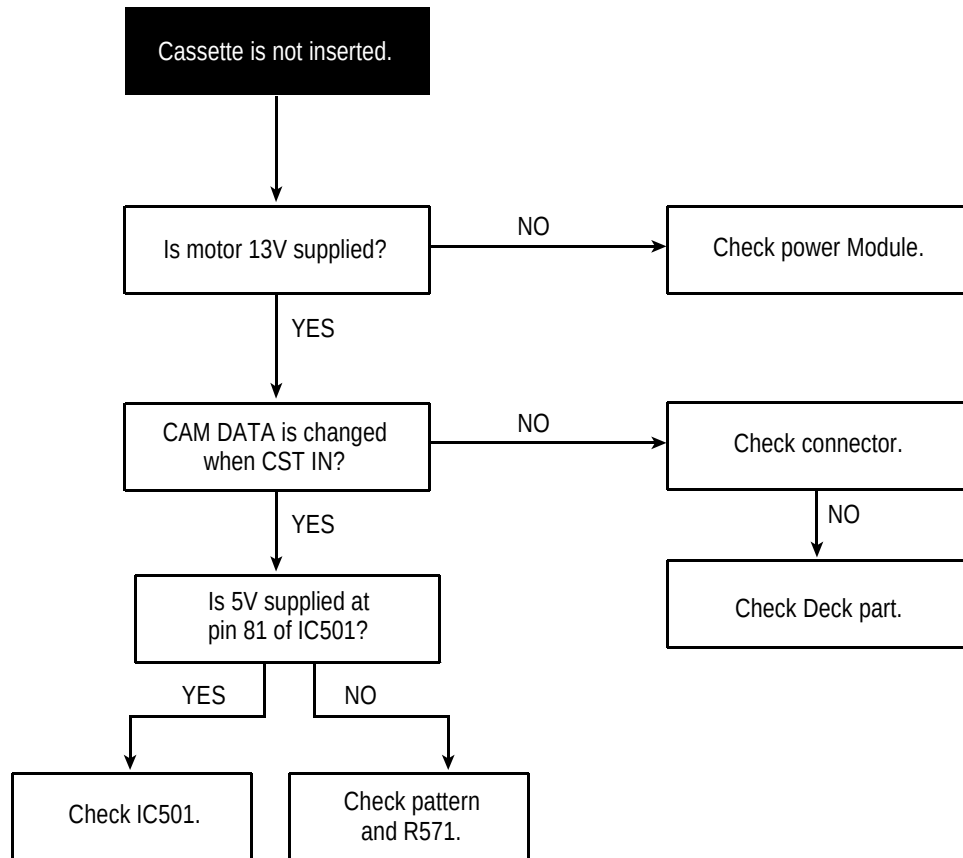
F.



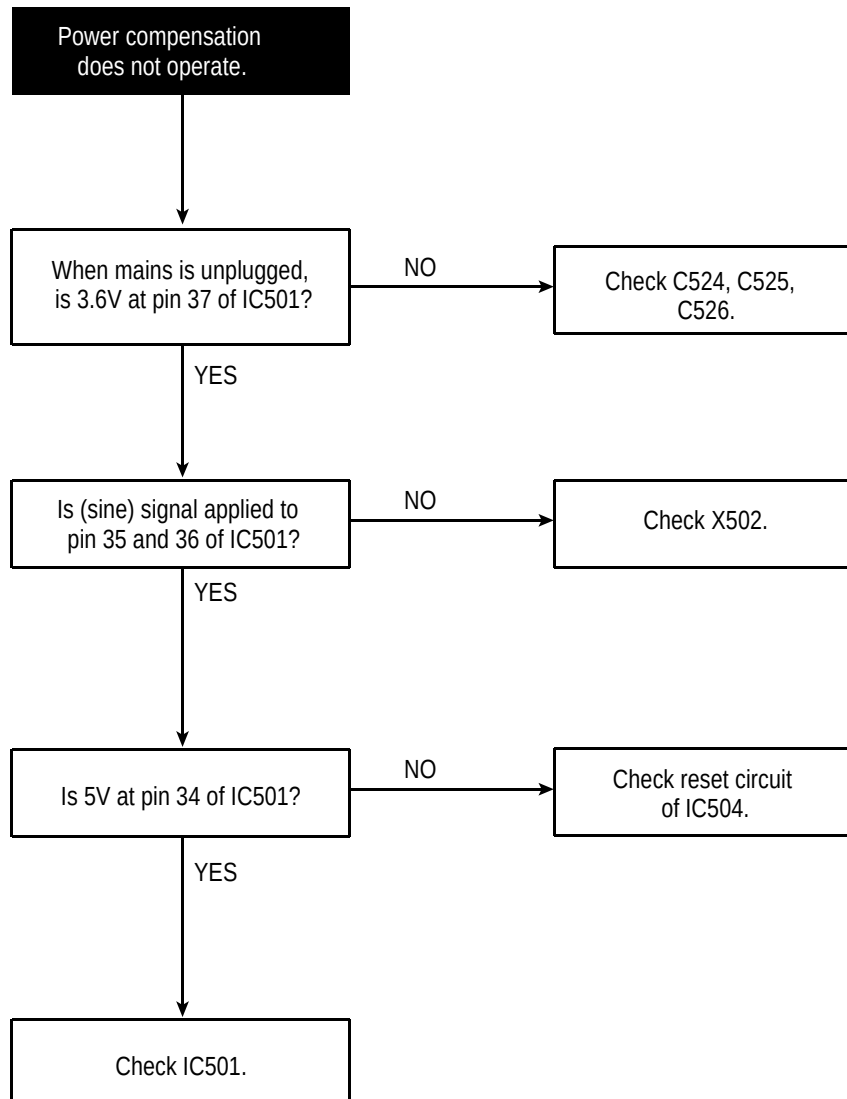
G.



H.

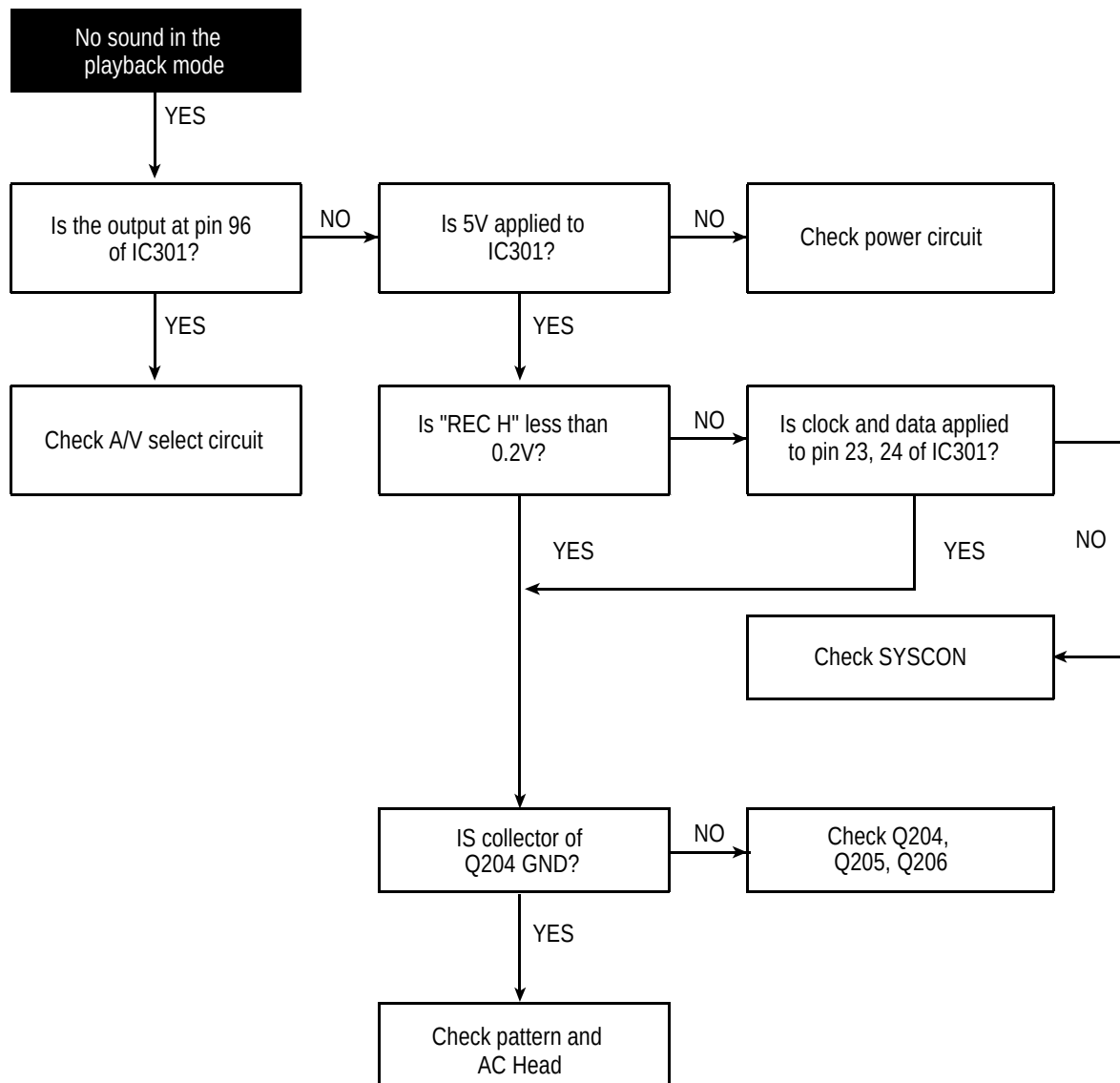


I.

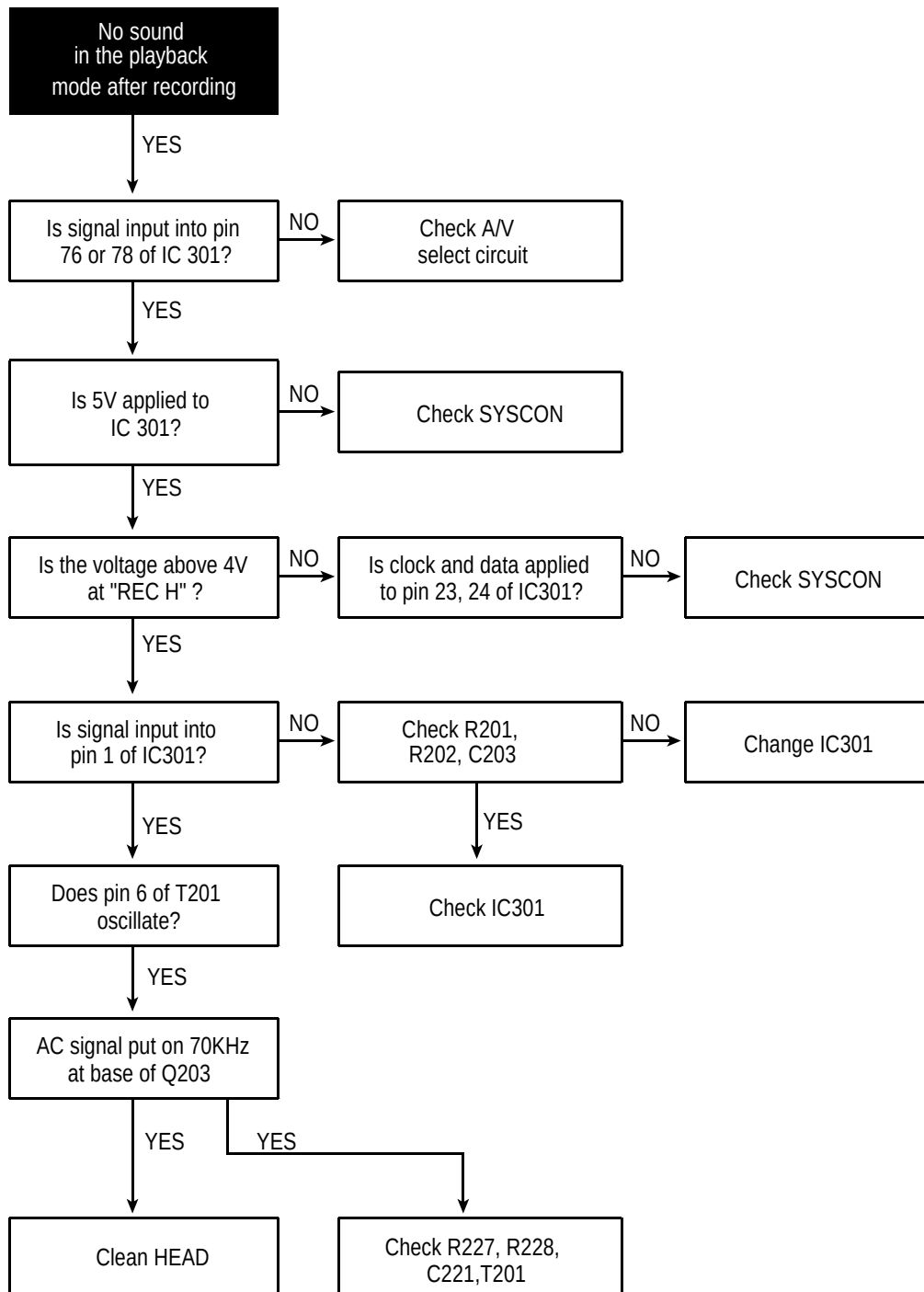


4. AUDIO CIRCUIT (NORMAL)

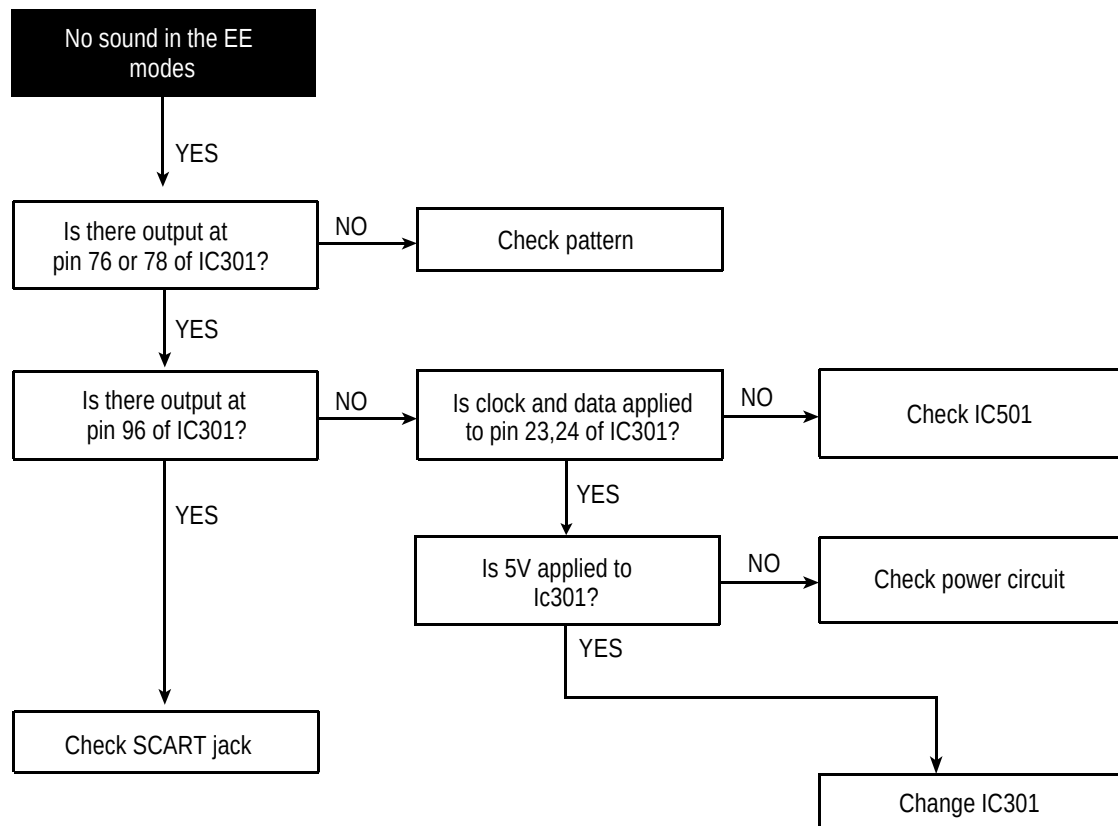
A. TROUBLESHOOTING OF PB MODE



B. TROUBLESHOOTING OF REC MODE

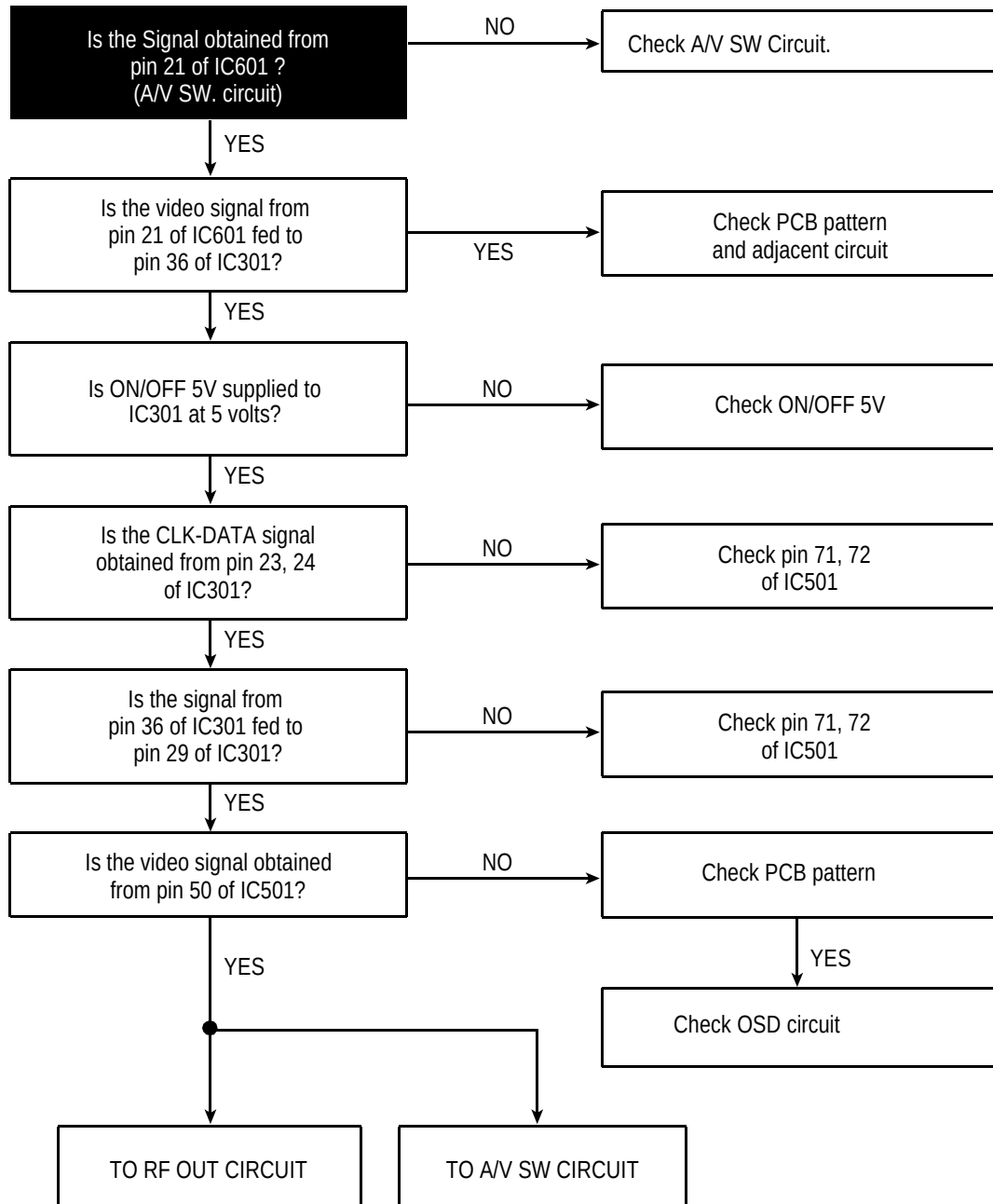


C. TROUBLESHOOTING OF EE MODE

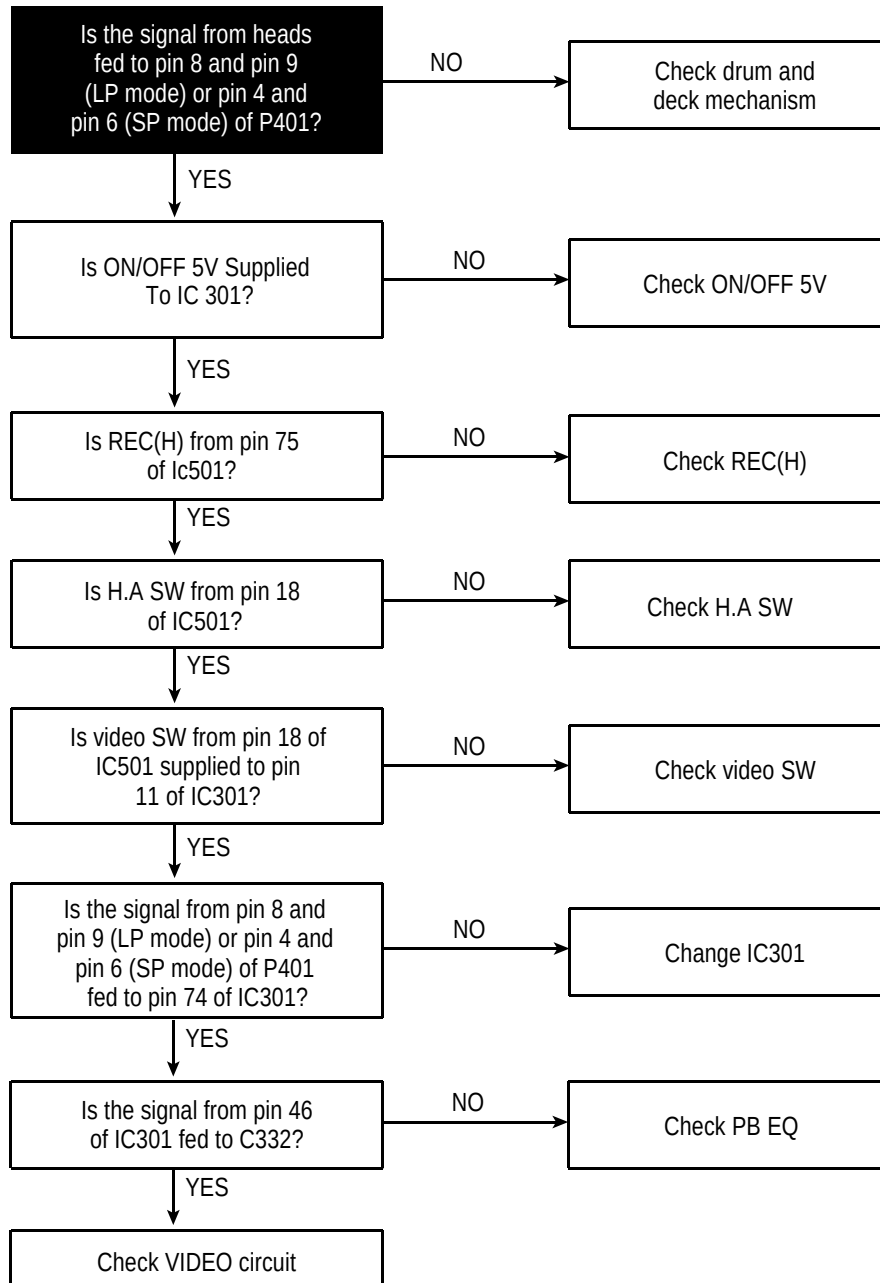


5. VIDEO CIRCUIT

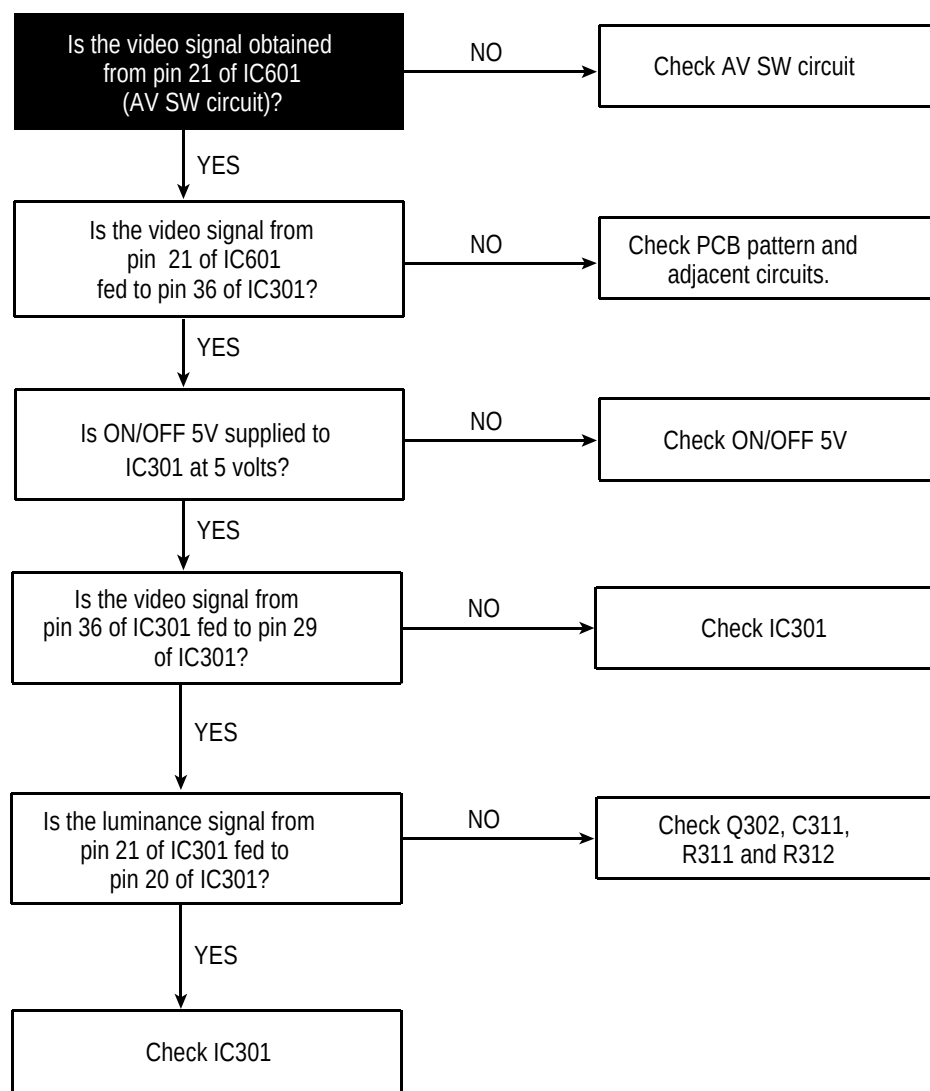
A. TROUBLESHOOTING OF EE MODE



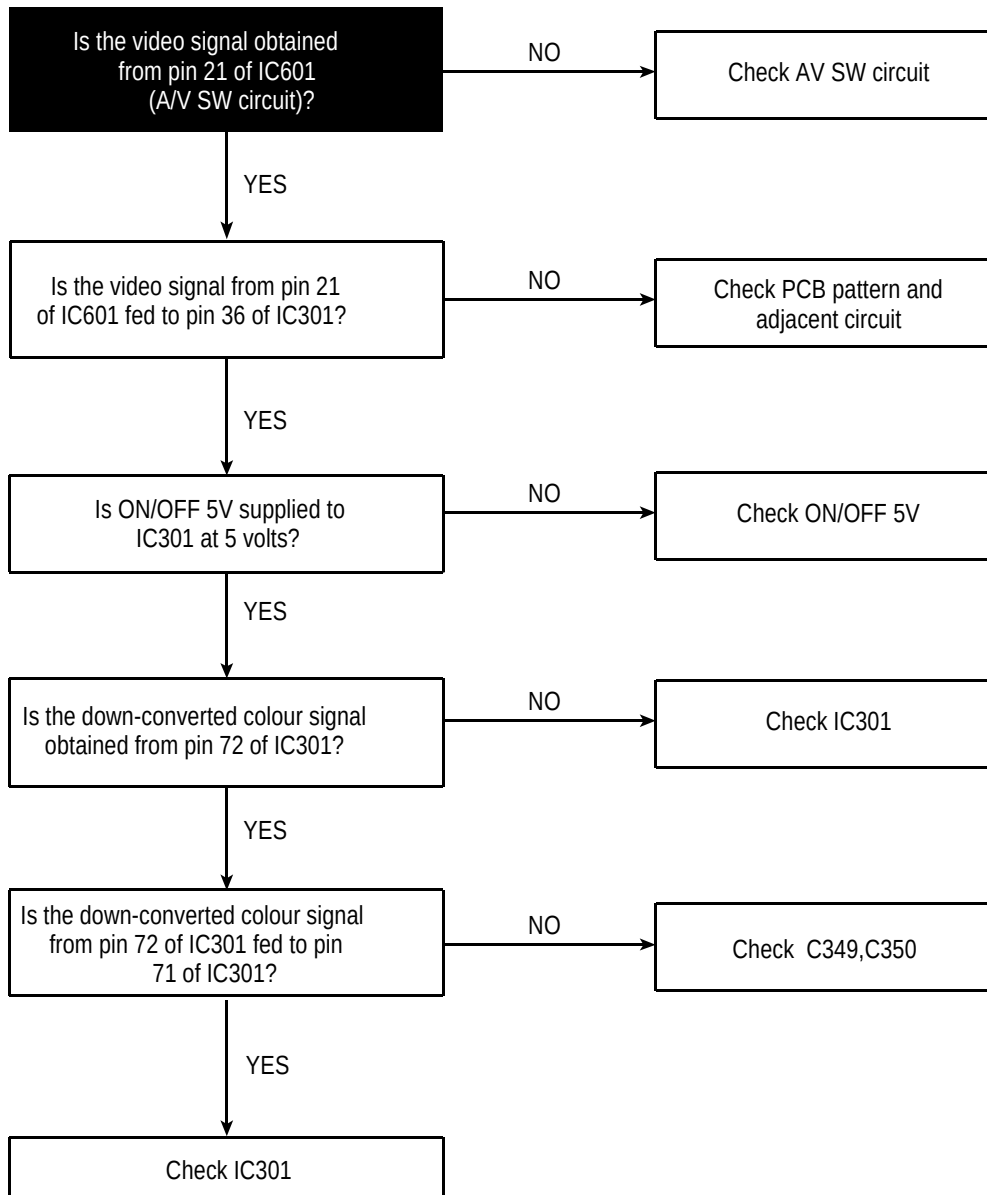
B. TROUBLESHOOTING OF PREAMP IN THE PLAYBACK MODE



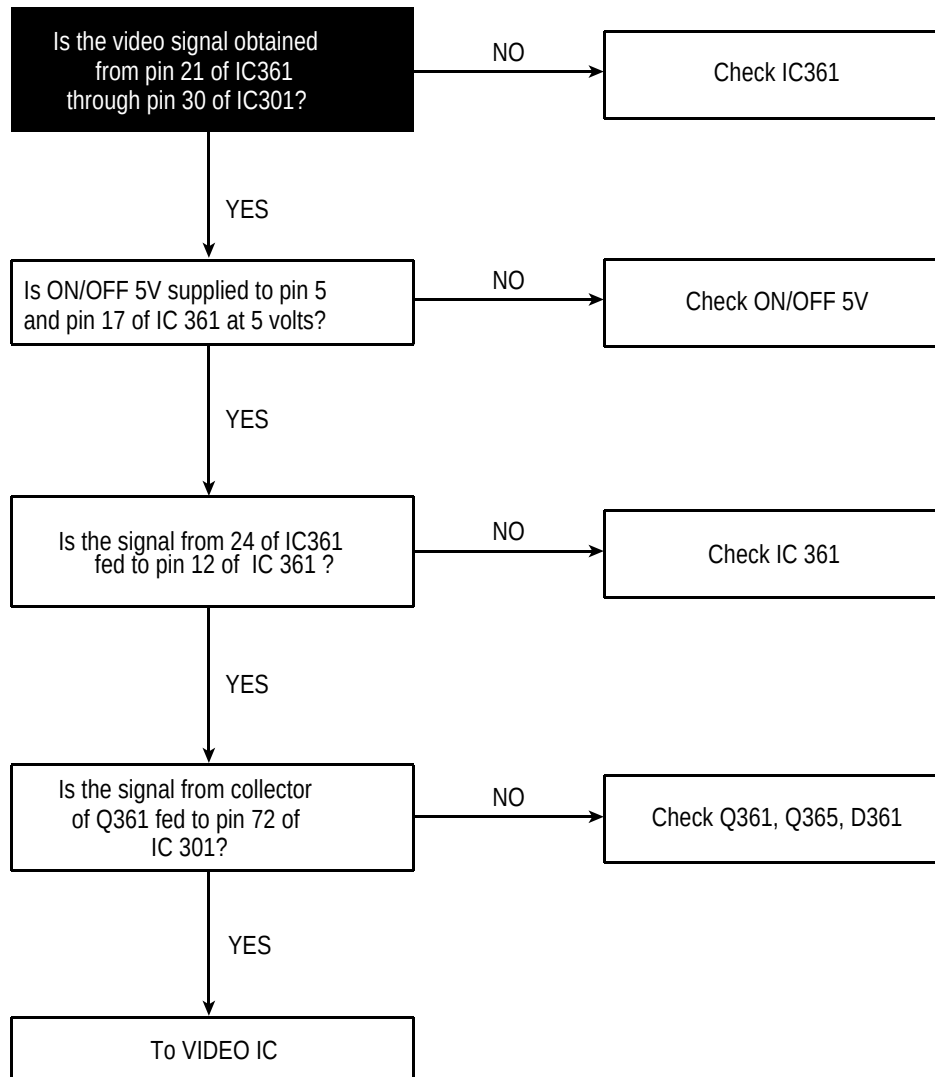
C. TROUBLESHOOTING OF LUMINANCE SIGNAL IN THE RECORD MODE



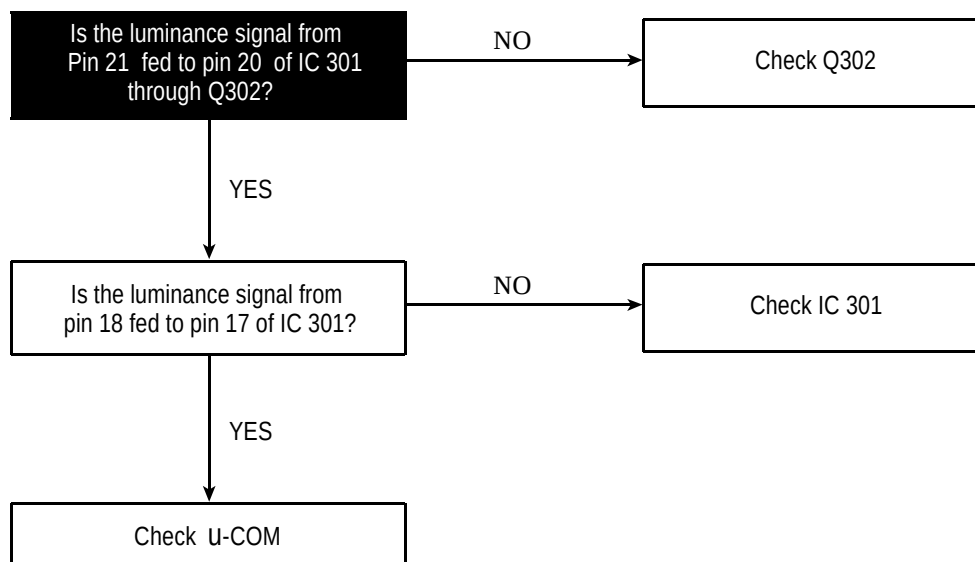
D. TROUBLESHOOTING OF PAL COLOUR IN THE RECORD MODE



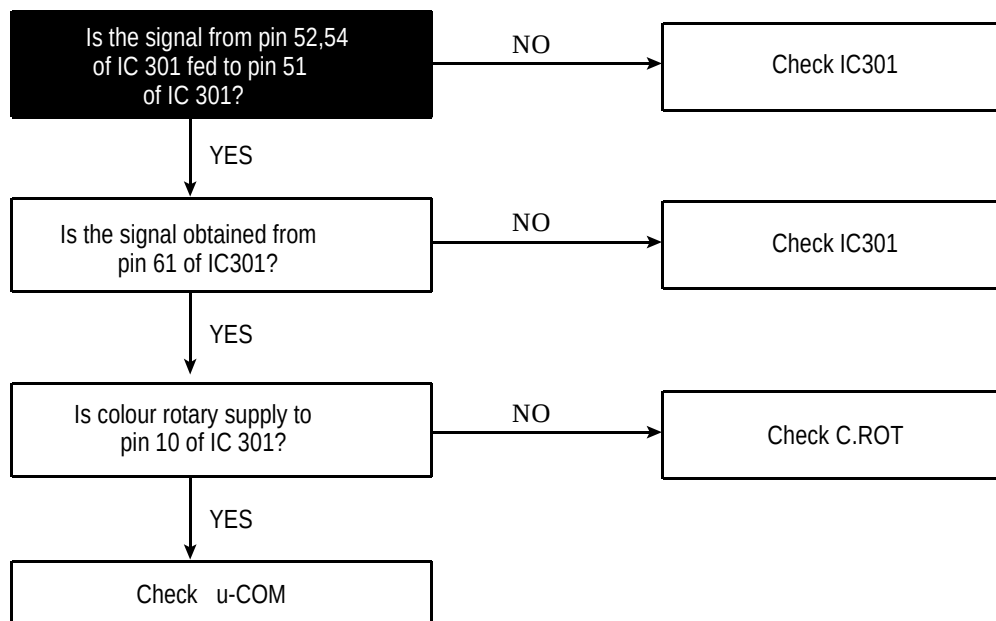
E. TROUBLESHOOTING OF SECAM COLOUR IN THE RECORD MODE



F. TROUBLESHOOTING OF LUMINANCE IN THE PLAYBACK MODE



G. TROUBLESHOOTING OF PAL COLOUR IN THE PLAYBACK MODE



NO	NAME	PORT	I/O	ASSIGNMENT	ACTIVE	CN
1	CAP I LIM	P110/AN8	O	THIS PORT IS USUALLY OPEN BUT OUTPUTS THE CAPSTAN STOP STATE OF FRAME ADVANCE	L	DECK(CAPSTAN)
2	SHUTTLE DATA1	P77/AN7	I	SHUTTLE DATA INPUT	A/D	SHUTTLE ASS'Y
3	PWR FAIL/	P76/AN6	I	WHEN POWER IS DISCONNECTED THIS PORT DETECTS POWER FAILURE AND THEN GOES INTO POWER COMPENSATION MODE	L	
	TIME CHEK			THIS PORT DETECTS THE CHARGED VOLTAGE ON C503 AND COMPENSATES THE TIME	A/D	
4	SHUTTLE DATA 2	P75/AN5	I	SHUTTLE DATA INPUT	A/D	SHUTTLE ASS'Y
5	AGC	P74/AN4	I	AGC ANALOG DATA INPUT FOR AUTO CH SETTING	A/D	PIF
6	END SENSOR	P73/AN3	I	TAPE END SENSOR DATA INPUT	H	END SENSOR
7	PATH ADJUST	P72/AN2	I	USE FOR PATH ADJUST	A/D	PATH JIG
8	AFT	P71/AN1	I	AFT ANALOG DATA INPUT FOR AUTO FINE TUNING	A/D	PIF
9	VIDEO DC ENVE	P70/AN0	I	VIDEO DC ENVE DATA INPUT	A/D	VIDEO
10	Hi-Fi DC ENVE	P67/AN10	I	Hi-Fi DC ENVE DATA INPUT	A/D	Hi-Fi
11	KEY 2	P66/RTP11	I	KEY/OPTION DATA INPUT	PULSE	
12	KEY 1	P65/RTP10	I	KEY/OPTION DATA INPUT	H	
13	Q V SYNC	P64/RTP03	O	PINOUT THIS SIGNAL DURING TRICK MODE	PULSE	VIDEO
14	REMOCON IN	P63/RTP02	I	REMOCON DATA INPUT	PULSE	REMOCON RECEIVER
15	C.ROTARY	P62	O	2HD : SW PULSE 4HD : EXCLUSIVE OR OUTPUT OF HEAD AMP SW & V.SW PULSE	P	VIDEO
16	HEAD AMP SW	P61	O	TO SELECT SP H'D OR LP H'D SP H'D:L LP H'D:H •2HD :L •4HD	P	VIDEO
17	ENVE COMP	P60	I	COMPARE SP ENVE WITH SP ENVE SP : L LP : H	P	VIDEO
18	VIDEO H/SW	P57/RTP01 (HASW)	O	TO SELECT SP H'D / LP H'D (VIDEO)	PULSE	VIDEO
19	AUDIO H/SW	P56/RTP00 (AHSW)	O	TO SELECT Hi-Fi H'D (Hi-Fi)	PULSE	Hi-Fi

NO	NAME	PORT	I/O	ASSIGNMENT	ACTIVE	CN
20	SEG 2	P55/RTP25	O	SEGMENT 2	PULSE	LED DISPLAY
21	SEG 3	P54/RTP24	O	SEGMENT 3	PULSE	LED DISPLAY
22	SEG 4	P53/RTP23	O	SEGMENT 4	PULSE	LED DISPLAY
23	SEG 5	P52/RTP22	O	SEGMENT 5	PULSE	LED DISPLAY
24	SEG 6	P51/RTP21	O	SEGMENT 6	PULSE	LED DISPLAY
25	SEG 7	P50/RTP20	O	SEGMENT 7	PULSE	LED DISPLAY
26	SEG 8	P47	O	SEGMENT 8	PULSE	LED DISPLAY
27	GRID 1	P46	O	GRID 1	PULSE	LED DISPLAY
28	GRID 2	P45	O	GRID 2	PULSE	LED DISPLAY
29	GRID 3	P44	O	GRID 3	PULSE	LED DISPLAY
30	GRID 4	P43	O	GRID 4	PULSE	LED DISPLAY
31	GRID 5	P42	O	GRID 5	PULSE	LED DISPLAY
32	GRID 6	P41	O	GRID 6	PULSE	LED DISPLAY
33	GRID 7	P40	O	GRID 7	PULSE	LED DISPLAY
34	RESET	RESET	I	RESET INPUT	L	RESET IC
35	Xcin	P31	I	32.768KHz OSC IN		
36	Xcout	P30	O	32.768KHz OSC OUT		
37	Vcc	Vcc		BACK UP 5V		
38	Xin	Xin	I	16MHz OSC IN		
39	Xout	Xout	O	162MHZ OSC OUT		
40	Vss	Vss		GND		
41	OSCin3	P22	I	17.734MHz OSC IN		
42	OS Cout3	P21	O	17.734MHz OSC OUT		
43	CLK SEL	CLK SEL	I	AFTER RESET, SYSYTEM CLOCK IS SELECTED DEPENDING UPON CUR- RENT STATE : IF L:32.768KHz, H:12MHz IS SELECTED	L	
44	SECAM DET H	P20	I	SECAM MODE INPUT	H	VIDEO(SECAM)
45	N.C	P17	O	N.C		
46	NUB	NUB		GND	L	
47	LP	P16	I			
48	EE SECAM L	P15	O	EE SECAM MODE OUTPUT	H	VIDEO(SECAM)
49	OSD Vss	OSD Vss		GND		
50	VIDEO IN	P14	I	OSD VIDEO IN		VIDEO
51	LECHA	P13	I	USE FOR OSD LEVEL ADJUSTMENT	A/D	
52	VIDEO OUT	P12	O	OSD VIDEO OUT		
53	OSD Vcc	OSD Vcc		OSD Vcc (ON/OFF 5V)		
54	HLF	P11	I	OSD HLF		
55	V HOLD	P10	I	OSD V HOLD		

NO	NAME	PORT	I/O	ASSIGNMENT	ACTIVE	CN
56	EDS IN	P07	I	OSD EDS VIDEO INPUT		
57	NUA	NUA		GND		
58	C SYNC	P06	I	COMPOSITE SYNC DATA INPUT	PULSE	VIDEO
59	N.C	P05				
60	II C DATA	P04/OUT1	I/O	EEPROM, PDC, NICAM, PIF, SW, HiFi DATA	SERIAL	
61	II C CLK	P03/OUT2	O	EEPROM, PDC, NICAM, PIF, SW, HiFi CLK	SERIAL	
62	CAP F/R	P02	O	CAPSTAN MOTOR FORWARD(L)/ REVERSE(H)	H/L	DECK(CAPSTAN)
63	NICAM RESET H	P01	O	NICAM SOFTWARE RESET HIGH	H	PIF(NICAM)
64	IF ON H	P00	O	RF MODE 'H' OUTPUT OTHERWISE 'L' OUTPUT	H	PIF
66	REC SAFETY	P107	I	REC SAFETY TAB IS DETECTED L STATE SO THAT RECORDING IS INHIBITED	L	REC SAFETY SW
66		P106	O			
67	TV CONTROL H	P105	O	TV/VTR MODE SWITCHING ON TV TV MODE:L, VCR MODE :H	L	A/V SW
68	16:9 CONT H	P104	O	16:9 MODE SWITCHING ON TV NORMODE : L, 16:9 MODE : H	H	A/V SW
69	CANAL L	P103	I	LOW INPUT IN CANAL BROADCAST	L	A/V SW
70	CAM B	P102	I	CAM B DATA INPUT	L	DECK(CAM)
71	II C CLK	P101/SCL	O	A/V, SECAM CLK	SERIAL	VIDEO
72	II C DATA	P100/SDA	I/O	A/V, SECAM DATA	SERIAL	VIDEO
73	POWER ON H	P97	O	POWER ON/OFF CONTROL PORT	H	POWER
74	POWER OFF H	P96	O	POWER ON/OFF CONTROL PORT	H	POWER
75	REC H	P95	O	REC MODE OUTPUT	H	AUDIO
76	DRUM PWM	P94/PWM1	O	DRUM MOTOR CONTROL PWM OUTPUT	PULSE	DECK(DRUM)
77	CAPSTAN PWM	P93/PWM0	O	CAPSTAN MOTOR CONTROL PWM OUTPUT	PULSE	DECK(CAPSTAN)
78	AUDIO MUTE H	P92	O	AUDIO MUTE H OUTPUT	H	AUDIO
79	SUPPLY REEL	P91	I	SUPPLY REEL PULSE INPUT	PULSE	DECK(SUPPLY REEL)
80	TAKE UP REEL	P90	I	TAKE UP TEEL PULSE INPUT	PULSE	DECK(TAKE UP REEL)
81	L/M F	P87	O	LOADING NOTOR FORWARD CONTROL	H	LOADING MOTOR IC
82	L/M R	P86	O	LOADING NOTOR REVERSE CONTROL	H	LOADING MOTOR IC
83	CAM D	P85	I	CAM D DATA INPUT	L	DECK(CAM)
84	CAM C	P84	I	CAM C DATA INPUT	L	DECK(CAM)
85	N.C	P83				
86	CAM A	P82	I	CAM A DATA INPUT	L	DECK(CAM)
87	CFG	CPFGin	I	CAPSTAN FG INPUT	PULSE	DECK(CAPSTAN)
88	AMP Vss	AMP Vss		GND		

NO	NAME	PORT	I/O	ASSIGNMENT	ACTIVE	CN
89	DFG	P81/DRFGin	I	DRUM FG INPUT	PULSE	DECK(DRUM)
90	DPG	DRPGin	I	DRUM PG INPUT	PULSE	DECK(DRUM)
91	AMP Vrefout	AMP Vrefout		AMP Vrefout		
92	AMP Vrefin	AMP Vrefin		AMP Vrefin		
93	C	P80/C				
94	CTL-	CTL-		CTL -		
95	CTL+	CTL+		CTL +		
96	AMP C	AMP C				
97	CTL AMP	CTL AMP	O	CTL AMP OUTPUT		PATH JIG
98	AMP Vcc	AMP Vcc		AMP Vcc		
99	Avcc	Avcc		Avcc		
100	START SENSOR	P111/AN9	I	TAPE START SENSOR DATA INPUT	H	START SENSOR

NO	NAME	PORT	I/O	ASSIGNMENT	ACTIVE	CN
1	CAP I LIM	P110/AN8	O	THIS PORT IS USUALLY OPEN BUT OUTPUTS THE CAPSTAN STOP STATE OF FRAME ADVANCE	L	DECK(CAPSTAN)
2	SHUTTLE DATA1	P77/AN7	I	SHUTTLE DATA INPUT	A/D	SHUTTLE ASS Y
3	PWR FAIL/	P76/AN6	I	WHEN POWER IS DISCONNECTED THIS PORT DETECTS POWER FAILURE AND THEN GOES INTO POWER COMPENSATION MODE	L	
	TIME CHEK			THIS PORT DETECTS THE CHARGED VOLTAGE ON C503 AND COMPENSATES THE TIME	A/D	
4	SHUTTLE DATA 2	P75/AN5	I	SHUTTLE DATA INPUT	A/D	SHUTTLE ASS Y
5	AGC	P74/AN4	I	AGC ANALOG DATA INPUT FOR AUTO CH SETTING	A/D	PIF
6	END SENSOR	P73/AN3	I	TAPE END SENSOR DATA INPUT	H	END SENSOR
7	PATH ADJUST	P72/AN2	I	USE FOR PATH ADJUST	A/D	PATH JIG
8	AFT	P71/AN1	I	AFT ANALOG DATA INPUT FOR AUTO FINE TUNING	A/D	PIF
9	VIDEO DC ENVE	P70/AN0	I	VIDEO DC ENVE DATA INPUT	A/D	VIDEO
10	Hi-Fi DC ENVE	P67/AN10	I	Hi-Fi DC ENVE DATA INPUT	A/D	Hi-Fi
11	KEY 2	P66/RTP11	I	KEY/OPTION DATA INPUT	PULSE	
12	KEY 1	P65/RTP10	I	KEY/OPTION DATA INPUT	H	
13	Q V SYNC	P64/RTP03	O	PINOUT THIS SIGNAL DURING TRICK MODE	PULSE	VIDEO
14	REMOCON IN	P63/RTP02	I	REMOCON DATA INPUT	PULSE	REMOCON RECEIVER
15	C.ROTARY	P62	O	2HD : SW PULSE 4HD : EXCLUSIVE OR OUTPUT OF HEAD AMP SW & V.SW PULSE	P	VIDEO
16	HEAD AMP SW	P61	O	TO SELECT SP H'D OR LP H'D SP H'D:L LP H'D:H •2HD :L •4HD	P	VIDEO
17	ENVE COMP	P60	I	COMPARE SP ENVE WITH SP ENVE SP : L LP : H	P	VIDEO
18	VIDEO H/SW	P57/RTP01 (HASW)	O	TO SELECT SP H'D / LP H'D (VIDEO)	PULSE	VIDEO
19	AUDIO H/SW	P56/RTP00 (AHSW)	O	TO SELECT Hi-Fi H'D (Hi-Fi)	PULSE	Hi-Fi

NO	NAME	PORT	I/O	ASSIGNMENT	ACTIVE	CN
20	SEG 2	P55/RTP25	O	SEGMENT 2	PULSE	LED DISPLAY
21	SEG 3	P54/RTP24	O	SEGMENT 3	PULSE	LED DISPLAY
22	SEG 4	P53/RTP23	O	SEGMENT 4	PULSE	LED DISPLAY
23	SEG 5	P52/RTP22	O	SEGMENT 5	PULSE	LED DISPLAY
24	SEG 6	P51/RTP21	O	SEGMENT 6	PULSE	LED DISPLAY
25	SEG 7	P50/RTP20	O	SEGMENT 7	PULSE	LED DISPLAY
26	SEG 8	P47	O	SEGMENT 8	PULSE	LED DISPLAY
27	GRID 1	P46	O	GRID 1	PULSE	LED DISPLAY
28	GRID 2	P45	O	GRID 2	PULSE	LED DISPLAY
29	GRID 3	P44	O	GRID 3	PULSE	LED DISPLAY
30	GRID 4	P43	O	GRID 4	PULSE	LED DISPLAY
31	GRID 5	P42	O	GRID 5	PULSE	LED DISPLAY
32	GRID 6	P41	O	GRID 6	PULSE	LED DISPLAY
33	GRID 7	P40	O	GRID 7	PULSE	LED DISPLAY
34	RESET	RESET	I	RESET INPUT	L	RESET IC
35	Xcin	P31	I	32.768KHz OSC IN		
36	Xcout	P30	O	32.768KHz OSC OUT		
37	Vcc	Vcc		BACK UP 5V		
38	Xin	Xin	I	16MHz OSC IN		
39	Xout	Xout	O	16MHz OSC OUT		
40	Vss	Vss		GND		
41	OSCin3	P22	I	17.734MHz OSC IN		
42	OS Cout3	P21	O	17.734MHz OSC OUT		
43	CLK SEL	CLK SEL	I	AFTER RESET, SYSTEM CLOCK IS SELECTED DEPENDING UPON CUR- RENT STATE : IF L:32.768KHz, H:12MHz IS SELECTED	L	
44	SECAM DET H	P20	I	SECAM MODE INPUT	H	VIDEO(SECAM)
45	N.C	P17	O	N.C		
46	NUB	NUB		GND	L	
47	LP	P16	I			
48	EE SECAM L	P15	O	EE SECAM MODE OUTPUT	H	VIDEO(SECAM)
49	OSD Vss	OSD Vss		GND		
50	VIDEO IN	P14	I	OSD VIDEO IN		VIDEO
51	LECHA	P13	I	USE FOR OSD LEVEL ADJUSTMENT	A/D	
52	VIDEO OUT	P12	O	OSD VIDEO OUT		
53	OSD Vcc	OSD Vcc		OSD Vcc (ON/OFF 5V)		
54	HLF	P11	I	OSD HLF		
55	V HOLD	P10	I	OSD V HOLD		

NO	NAME	PORT	I/O	ASSIGNMENT	ACTIVE	CN
56	EDS IN	P07	I	OSD EDS VIDEO INPUT		
57	NUA	NUA		GND		
58	C SYNC	P06	I	COMPOSITE SYNC DATA INPUT	PULSE	VIDEO
59	N.C	P05				
60	II C DATA	P04/OUT1	I/O	EEPROM, PDC, NICAM, PIF, SW, HiFi DATA	SERIAL	
61	II C CLK	P03/OUT2	O	EEPROM, PDC, NICAM, PIF, SW, HiFi CLK	SERIAL	
62	CAP F/R	P02	O	CAPSTAN MOTOR FORWARD(L)/ REVERSE(H)	H/L	DECK(CAPSTAN)
63	NICAM RESET H	P01	O	NICAM SOFTWARE RESET HIGH	H	PIF(NICAM)
64	IF ON H	P00	O	RF MODE 'H' OUTPUT OTHERWISE 'L' OUTPUT	H	PIF
66	REC SAFETY	P107	I	REC SAFETY TAB IS DETECTED L STATE SO THAT RECORDING IS INHIBITED	L	REC SAFETY SW
66		P106	O			
67	TV CONTROL H	P105	O	TV/VTR MODE SWITCHING ON TV TV MODE:L, VCR MODE :H	L	A/V SW
68	16:9 CONT H	P104	O	16:9 MODE SWITCHING ON TV NORMODE : L, 16:9 MODE : H	H	A/V SW
69	CANAL L	P103	I	LOW INPUT IN CANAL BROADCAST	L	A/V SW
70	CAM B	P102	I	CAM B DATA INPUT	L	DECK(CAM)
71	II C CLK	P101/SCL	O	A/V, SECAM CLK	SERIAL	VIDEO
72	II C DATA	P100/SDA	I/O	A/V, SECAM DATA	SERIAL	VIDEO
73	POWER ON H	P97	O	POWER ON/OFF CONTROL PORT	H	POWER
74	POWER OFF H	P96	O	POWER ON/OFF CONTROL PORT	H	POWER
75	REC H	P95	O	REC MODE OUTPUT	H	AUDIO
76	DRUM PWM	P94/PWM1	O	DRUM MOTOR CONTROL PWM OUTPUT	PULSE	DECK(DRUM)
77	CAPSTAN PWM	P93/PWM0	O	CAPSTAN MOTOR CONTROL PWM OUTPUT	PULSE	DECK(CAPSTAN)
78	AUDIO MUTE H	P92	O	AUDIO MUTE H OUTPUT	H	AUDIO
79	SUPPLY REEL	P91	I	SUPPLY REEL PULSE INPUT	PULSE	DECK(SUPPLY REEL)
80	TAKE UP REEL	P90	I	TAKE UP TEEL PULSE INPUT	PULSE	DECK(TAKE UP REEL)
81	L/M F	P87	O	LOADING NOTOR FORWARD CONTROL	H	LOADING MOTOR IC
82	L/M R	P86	O	LOADING NOTOR REVERSE CONTROL	H	LOADING MOTOR IC
83	CAM D	P85	I	CAM D DATA INPUT	L	DECK(CAM)
84	CAM C	P84	I	CAM C DATA INPUT	L	DECK(CAM)
85	N.C	P83				
86	CAM A	P82	I	CAM A DATA INPUT	L	DECK(CAM)
87	CFG	CPFGin	I	CAPSTAN FG INPUT	PULSE	DECK(CAPSTAN)
88	AMP Vss	AMP Vss		GND		

NO	NAME	PORT	I/O	ASSIGNMENT	ACTIVE	CN
89	DFG	P81/DRFGin	I	DRUM FG INPUT	PULSE	DECK(DRUM)
90	DPG	DRPGin	I	DRUM PG INPUT	PULSE	DECK(DRUM)
91	AMP Vrefout	AMP Vrefout		AMP Vrefout		
92	AMP Vrefin	AMP Vrefin		AMP Vrefin		
93	C	P80/C				
94	CTL-	CTL-		CTL -		
95	CTL+	CTL+		CTL +		
96	AMP C	AMP C				
97	CTL AMP	CTL AMP	O	CTL AMP OUTPUT		PATH JIG
98	AMP Vcc	AMP Vcc		AMP Vcc		
99	Avcc	Avcc		Avcc		
100	START SENSOR	P111/AN9	I	TAPE START SENSOR DATA INPUT	H	START SENSOR

1. SERVICE MODE

ITEM	OSD	REMARKS
1. Press the [MENU] button to go to [MAIN MENU] screen and press the number [484] in sequence then go to [SERVICE MODE] screen. 2. ENGLISH only for this special menu. 3. The [SERVICE MODE] composes the followings. 1) SVC MODE FOR REPAIR 2) TIMER CHECK MODE 3) CHANGE OF VIDEO DATA 4) CHANGE OF Hi-Fi DATA 5) AUTO REPEAT	1 MAIN MENU →Timer Program Timer Review VCR Setup PR +/- : select OK : confirm MENU : end WELCOME TO SVC MODE! 1 SVC MODE FOR REPAIR 2 TIMER CHECK MODE 3 CHANGE OF VIDEO DATA 4 CHANGE OF Hi-Fi DATA 5 AUTO REPEAT 0 EXIT	

2. SVC MODE FOR REPAIR

2 - 1. ERROR CHECK MODE

ITEM	OSD	REMARKS
1. Press the number 1 button , then OSD 1 is displayed in the initial SVC mode screen.	1 SVC MODE FOR REPAIR 1 DECK JIG CONNECTION MODE (OFF) 2 EE MODE WITHOUT DECK MODE(OFF) 3 ERROR CHECK MODE 0 RETURN *ERROR CHECK MODE	
2. Press the number 3 button , then OSD 2 is displayed in the initial SVC MODE FOR REPAIR screen. It can be selected in TAPE OUT state only.	2 ERROR CHECKING CHECKING PLEASE WAIT . . . * "CHECKING" is blinks for 5 seconds.	
3. PAL TEST TAPE is inserted after guide message is appeared, PLAY ꔸ CUE ꔸ STILL ꔸ SLOW ꔸ F.F ꔸ REW ꔸ PLAY ꔸ REV ꔸ STOP operations are executed automatically and OSD 4 will be displayed. To press 0 button on OSD 4 will be ejected.	3 ERROR CHECK MODE PLEASE INSERT A TEST TAPE FOR ERROR CHECK.	
4. The error state is displayed 'OK' or 'NG' in ERROR CHECK RESULTS screen. * '-' means unchecked state.	4 ERROR CHECK RESULTS 1. DRUM : OK 2. CAPSTAN : OK 3. S-REEL : OK 4. T-REEL : OK 5. CAM : OK 6. CTL : NG 7. ENVELOPE : - - 0 RETURN	

2 - 2. DECK JIG CONNECTION MODE

ITEM	OSD	REMARKS
1. Press the number 1 button, OFF ↔ ON is toggled in the SVC MODE FOR REPAIR screen. * The initial state is set to OFF mode.		

2 - 3. EE MODE WITHOUT DECK

ITEM	OSD	REMARKS
1. Press the number 2 button, OFF ↔ ON is toggled in the SVC MODE FOR REPAIR screen. * The initial state is set to OFF mode.		

3. TIMER CHECK MODE**3 - 1. FAST CLOCK OPERATION**

ITEM	OSD	REMARKS
* TIMER CHECK MODE is used to check the TIMER RECORD/SHOWVIEW RECORD and VFD SEGMENT. 1. Press the number 2 button, then OSD 1 will be displayed in the initial SVC mode screen. 2. Press the number 1 button, FAST CLOCK OPERATION will be selected in the TIMER CHECK MODE screen. * The clock is operated with 60 times (1Min 1Sec.) 3. Press the number 1 button, VFD SEGMENT CHECK will be selected in the TIMER CHECK MODE screen. * All segments are lit on VFD for 5 seconds.	TIMER CHECK MODE 1 FAST CLOCK OPERATION 2 VFD SEGMENT CHECK 0 RETURN	

4. CHANGE OF EEPROM DATA

ITEM	OSD	REMARKS
* [CHANGE OF EEPROM DATA] is used to change the VIDEO/AUDIO characteristic data. 1. Press number [3] button to activate the mode. 2. Press [↵] button to move from right to left. 3. Press [⇅] button to move from up to down. 4. Press [OK] button to toggle the bit of data. 5. Then Press [0] button to confirm the change. * System data can be changed by pressing [PAL/SECAM] button. Then "A" is changed as "P ⇅ M ⇅ A" by turn whenever the key is pressed. * For SECAM model, the order is "A ⇅ S ⇅ P ⇅ M ⇅ A".	<pre> 0 0 0 1 1 1 0 1 A1 1 1 1 1 1 1 1 0 A2 1 0 0 0 0 0 1 0 A3 1 0 1 0 0 0 1 0 A4 1 1 0 1 1 0 1 1 A5 0 1 0 0 1 0 1 0 A6 0 1 0 0 0 1 0 0 A7 0 0 1 1 0 0 1 0 A8 0 RETURN </pre>	

5. CHANGE OF EEPROM DATA DURING PB MODE

ITEM	OSD	REMARKS
1. Press number [3] button to activate the mode during PlayBack. * Press [REC] button to adjust PG (6.5H) 2. Press [↵] button to move from right to left. 3. Press [⇅] button to move from up to down. 4. Press [OK] button to toggle the bit of data. 5. Then Press [0] button to confirm the change.	<pre> 0 0 0 1 1 1 0 1 A1 1 1 1 1 1 1 1 0 A2 1 0 0 0 0 0 1 0 A3 1 0 1 0 0 0 1 0 A4 1 1 0 1 1 0 1 1 A5 0 1 0 0 1 0 1 0 A6 0 1 0 0 0 1 0 0 A7 0 0 1 1 0 0 1 0 A8 0 RETURN REC PG (6.5H) </pre>	

6. CHANGE OF EEPROM DATA DURING SLOW MODE

ITEM	OSD	REMARKS
1. Press number [3] button to activate the mode during SLOW mode. 2. Press [↵ / ⇅] button to adjust SLOW tracking. 3. Adjustment steps : [0 - 99] & [-99 - 0]	<pre> 0 0 0 1 1 1 0 1 A1 1 1 1 1 1 1 1 0 A2 1 0 0 0 0 0 1 0 A3 1 0 1 0 0 0 1 0 A4 1 1 0 1 1 0 1 1 A5 0 1 0 0 1 0 1 0 A6 0 1 0 0 0 1 0 0 A7 0 0 1 1 0 0 1 0 A8 0 RETURN -/→ SLOW 00 </pre>	

7. THE METHOD TO INITIALIZE THE VIDEO DATA

1. When [484] is sequentially pressed in MENU mode, the SERVICE mode is activated.
2. Choose "CHANGE OF VIDEO DATA" by pressing [3].
3. The input video signal should be PAL or null signal and the speed should be SP.
4. Change the first 2bits of A8 group to all "1" by the [↵], [⏏], [OK] buttons.
5. The data are stored in EEPROM when [0] button is pressed.
6. Pull out the mains power cord.
7. Instantly short the both leads of C524 on MAIN PCB to reset the VCR.
8. Plug in the mains power cord again.

8. THE METHOD TO CONTROL THE AV 1 CHIP SERIAL DATA

1. Access to the SERVICE MODE by pressing [484] buttons sequentially in MAIN MENU.
2. Choose "CHANGE OF VIDEO DATA" by pressing [3].
3. Then the data table which indicates the current video system (PAL/SECAM) and speed (SP/LP) is displayed on screen, while it detects the system and speed automatically.
4. Select the system and speed using [PAL/SECAM] button and [SP/LP] button on remote control if you need to change.
5. The cursor on the data table moves from right to left when the [↵] button is pressed.
6. The cursor on the data table moves from up to down when the [⏏] button is pressed.
7. Data is toggled whenever the [OK] button is pressed on the cursor position.
8. If you need to change the data related to TRICK PLAY, it can be easily accessed in STILL mode.
9. First, the mode of the system detection should be AUTO mode after you change the data, and then if [0] button is pressed after this, the data of the current status are stored in EEPROM, then the SERVICE MODE MENU is displayed.
10. The data corresponding to the system, speed, input selection, trick play are not changed.

* The group indication part on the data table is changed as in order of A1, A2, ... ⏏ P1, P2, ... ⏏ M1, M2, ... ⏏ S1, S2, ... (SECAM ONLY) ⏏ A1, A2, ... whenever the [PAL/SECAM] button on remote control is pressed, the system detection of which are A(AUTO), P(FORCED PAL), M(FORCED MESECAM), S(FROCED SECAM) respectively.

* The data changed to the current system according to the input video signal automatically in case of AUTO mode and if no signal, it changes to PAL system.

* Adjust the correct system by pressing the [PAL/SECAM] button on remote control if the current status of the system is not correspond to the input video signal.

9. SANYO A/V 1CHIP SERIAL CONTROL TABLE(LA71594M)

*GR9 SECAM-LIC(TAL238N)CONTROL DATA

GROUP / BIT	8	7	6	5	4	3	2	1	
GROUP 1 (MODE 1)	00 A IN-1 01 A IN-2 10 A IN-3 11 PROHIBIT (INJ DOWN SELECT)		00 AUDIO REC 01 AUDIO PB 10 AUDIO EE 11 PROHIBIT (Y-TEST MODE)		00 REC : V IN-1 01 REC : V IN-2 0 PB : Y/C MIX ON 1 PB : Y/C MIX OFF	10 REC : V IN-3 11 REC : Y/C SEP IN (INJ UP) 0 PB : ANR OFF ON 1 PB : ANR ON	00 VIDEO REC 01 VIDEO PB 10 VIDEO EE 11 VIDEO REC PAUSE (BIT TEST ON)		
GROUP 2 (SYSTEM)	0 REC : P. BST 270 DEG PB : ENV DET SENS. = HIGH 1 REC : P. BST 90 DEG PB : ENV DET SENS. = LOW	0 NORMAL MODE 1 BLUE BACK MODE (T-TEST)	00 AUTO KILLER 01 FORCED COLOR / MESECAM SELECT 10 FORCED KILLER / SECAM SELECT 11 PROHIBIT (INJ U/D & T-TEST SELECT)		0 C-3.58MHz 1 C-4.43MHz	0 Y-3.58MHz 1 Y-4.43MHz	00 NTSC "01 PAL-GBI, N" 10 PAL-M 11 MESECAM / SECAM		
GROUP 3 (MODE 2)	00 SP (AUDIO) 01 LP (AUDIO) 10 EP (AUDIO) 11 PROHIBIT (F-TEST MODE)		00 SP (VIDEO) & CARRIER SHIFT OFF 01 LP (VIDEO) 10 EP (VIDEO) 11 SP (VIDEO) & CARRIER SHIFT ON		0 LA71570M MODE 1 LA71590M MODE	0 NON-CORRE OUT MODE 1 CHROMA DET OUT MODE	0 DOC OFF/REC-EQ 0 1 DOC AUTO/REC-EQ 1	0 NORMAL VXO 1 FORCED XO	
GROUP 4 (NR)	00 Y DELAY -80N 01 Y DELAY -ON 10 Y DELAY -80N 11 Y DELAY -160N		000 NC1 CTL/DETAIL CTL-1 LIM=MIN 100 NC1 CTL/DETAIL CTL-5 001 NC1 CTL/DETAIL CTL-2 101 NC1 CTL/DETAIL CTL-6 010 NC1 CTL/DETAIL CTL-3 110 NC1 CTL/DETAIL CTL-7 011 NC1 CTL/DETAIL CTL-4 111 NC1 CTL/DETAIL CTL-8 LIM=MAX			0 YNR MODE 1 LNC MODE	00 YNR/LNC OFF 01 YNR/LNC STANDARD 10 YNR/LNC MIDUM 11 YNR/LNC STRONG		
GROUP 5 (EQ)	00 PB EQ H-TRAP 10MHz / REC EQ H-TRAP 10MHz 01 PB EQ H-TRAP 9MHz / REC EQ H-TRAP 9MHz 10 PB EQ H-TRAP 8MHz / REC EQ H-TRAP 8MHz 11 PB EQ H-TRAP 7MHz / REC EQ H-TRAP 7MHz		00 PB EQ PEAK-NARROW / REC EQ SLOPE-GEN-TLE 01 PB EQ PEAK-2 / REC EQ SLOPE-2 10 PB EQ PEAK-3 / REC EQ SLOPE-3 11 PB EQ PEAK-WIDE / REC EQ SLOPE-STEEP		00 R/P EQ TRAP : 500K + 650K 01 R/P EQ TRAP : 500K + 800K 10 R/P EQ TRAP : 500K + 1.1M 11 R/P EQ TRAP : 500K	00 PB EQ F0. 6.0M 01 PB EQ F0. 5.5M 10 PB EQ F0. 5.0M 11 PB EQ F0. 4.5M			
GROUP 6 (PB MODE)	000 PIC CTL -6dB / SOFT 010 PIC CTL -2dB 100 PIC CTL 0dB 110 PIC CTL +4dB		100 PIC CTL -4dB 011 PIC CTL 0dB 101 PIC CTL +2dB 111 PIC CTL +6dB / SHARP		0 APC LOOP BEFORE 1 APC LOOP AFTER	0 NORMAL PB 1 TRICK PB	0 PHASE ALTERNATION ON 1 PHASE ALTERNATION OFF	0 CHILD LOCK OFF 1 CHILD LOCK ON	
GROUP 6 (REC MODE)	0000 REC CURRENT-1 / MIN 0100 REC CURRENT-5 1000 REC CURRENT-9 / TYP 1100 REC CURRENT-13 0001 REC CURRENT-2 0101 REC CURRENT-6 1001 REC CURRENT-10 1101 REC CURRENT-14 0010 REC CURRENT-3 0110 REC CURRENT-7 1010 REC CURRENT-11 1110 REC CURRENT-15 0011 REC CURRENT-4 0111 REC CURRENT-8 1011 REC CURRENT-12 1111 REC CURRENT-16 / MAX		0 SYNC SLICE LEVEL = SYNC TIP SIDE 1 SYNC SLICE LEVEL = PEDESTAL SIDE	0 BGP = INTERVAL 1 BGP = CONTINUE	0 NORMAL MODE 1 SYNC CARRIER OUT MODE	0 WC 195% 1 WC 185%	00 REC FM LEVEL -0.9dB 01 REC FM LEVEL 0dB 10 REC FM LEVEL +0.9dB 11 REC FM LEVEL +1.8dB		
GROUP 7 (LEVEL CTL)	00 NL OFF 01 NL STRONG 10 NL MIDUM 11 NL STANDARD		0 SYNC SLICE LEVEL = SYNC TIP SIDE 1 SYNC SLICE LEVEL = PEDESTAL SIDE	0 BGP = INTERVAL 1 BGP = CONTINUE	0 NORMAL 1 PROHIBIT (T-TEST)	0 COPY GUARD NORMAL / PB BST DE-EM -5.0dB 1 COPY GUARD STOP / PB BST DE-EM -5.5dB	00 REC C LEVEL 0dB / PB NORMAL 01 REC C LEVEL -1.5dB / PB NAP 10 REC C LEVEL -3.0dB / PB BALA-MODE 11 REC C LEVEL -4.5dB / PB PROHIBIT (NO-OP)		
GROUP 8 (OTHERS)	0 NORMAL 1 SVHS	0 INTERNAL EQ 1 EXTERNAL EQ	0 AUDIO AUTO BIAS 1 AUDIO BIAS ADJ. MODE	00000 PB : AUDIO LEVEL-1/LOW 01000 PB : AUDIO LEVEL-9 01000 PB : AUDIO LEVEL-17 11000 PB : AUDIO LEVEL-25 00001 PB : AUDIO LEVEL-2 01001 PB : AUDIO LEVEL-10 10001 PB : AUDIO LEVEL-18 11001 PB : AUDIO LEVEL-26 00010 PB : AUDIO LEVEL-3 01010 PB : AUDIO LEVEL-11 10010 PB : AUDIO LEVEL-19 11010 PB : AUDIO LEVEL-27 00011 PB : AUDIO LEVEL-4 01011 PB : AUDIO LEVEL-12 10011 PB : AUDIO LEVEL-20 11011 PB : AUDIO LEVEL-28 00100 PB : AUDIO LEVEL-5 01100 PB : AUDIO LEVEL-13 10100 PB : AUDIO LEVEL-21 11100 PB : AUDIO LEVEL-29 00101 PB : AUDIO LEVEL-6 01101 PB : AUDIO LEVEL-14 10101 PB : AUDIO LEVEL-22 11101 PB : AUDIO LEVEL-30 00110 PB : AUDIO LEVEL-7 01110 PB : AUDIO LEVEL-15 10110 PB : AUDIO LEVEL-23 11110 PB : AUDIO LEVEL-31 00111 PB : AUDIO LEVEL-8 01111 PB : AUDIO LEVEL-16 10111 PB : AUDIO LEVEL-24 11111 PB : AUDIO LEVEL-32/					
GROUP 9 (SECAM-L)	0 REC 1 PB	0 SID KEY NORMAL 1 SID KEY WIDE	0 60Hz 1 50Hz	0 NORMAL 1 TRICK PLAY	0 NOT SECAM 1 SECAM	011 REC/PB LEVEL (DEFAULT)	000 REC/PB LEVEL (-1.5dB) 111 REC/PB LEVEL (+2.0dB)		

10. SANYO AV 1CHIP SERIAL DATA TABLE(PAL 4CH)

- PAL, SP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	1	0	0	0	0	1	0	1
Gr 6	0	0	1	1	0	0	0	1
Gr 7	0	0	1	1	0	0	1	1
Gr 8	0	0	0	1	0	0	0	0

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	1	0
Gr 6	1	0	1	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	0	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

- PAL, LP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	0	1	1	0	1
Gr 3	1	0	0	1	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	0	1
Gr 6	0	0	0	1	0	0	1	0
Gr 7	1	1	1	1	0	0	0	0
Gr 8	0	0	0	1	0	0	0	0

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	1	0	0	1	1	0	1	0
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	1	0	1	0	0	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	1	0	0	1	1	0	1	0
Gr 4	1	0	0	1	1	0	1	0
Gr 5	1	0	0	0	0	1	0	1
Gr 6	1	0	0	0	1	1	1	0
Gr 7	1	1	1	1	0	1	1	0
Gr 8	0	0	0	1	0	0	0	0

1. "6,5" Bit and "2,1" Bit of Gr1 are switched automatically to REC(00),PB(01),EE(10)
2. "8,7" Bit and "4,3" Bit (INPUT SELECT SW) of Gr1 are Front AV(00), scart AV(01), If AV(10), In case 2 Scart model, it is fixed to scart AV(01)
3. In the case of NTSC PB, "2,1"Bit of Gr 7 are fixed to 0,1
4. "3" Bit of Gr7 is switched EE "1",REC "0"
5. In case of TRICK MODE, "3" Bit of Gr6 is switched to "0" (in still/Slow mode) and to "1"(in Cue/Rew mode)

- MESECAM,SP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	0	1	0	1	1	0	0	1
Gr 5	1	0	0	0	0	1	0	1
Gr 6	0	0	1	1	0	0	0	1
Gr 7	0	0	1	1	0	0	1	1
Gr 8	0	0	0	1	0	0	0	0

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	1	0
Gr 6	1	0	1	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	0	1	0	1	1	0	1	0
Gr 5	0	1	0	1	0	1	0	1
Gr 6	1	0	0	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

- MESECAM,LP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	1	1	1	1	1
Gr 3	1	0	0	1	1	0	1	1
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	0	1
Gr 6	0	0	0	1	0	0	1	0
Gr 7	1	1	1	1	0	0	0	0
Gr 8	0	0	0	1	0	0	0	0

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	1	0	0	1	1	0	1	1
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	1	0	1	0	0	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	1	0	0	1	1	0	1	1
Gr 4	1	0	0	1	1	0	1	0
Gr 5	1	0	0	0	0	1	0	1
Gr 6	1	0	0	0	1	1	1	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

1. "6,5" Bit and "2,1" Bit of Gr1 are switched automatically to REC(00),PB(01),EE(10)
2. "8,7" Bit and "4,3" Bit (INPUT SELECT SW) of Gr1 are Front AV(00), scart AV(01), If AV(10), In case 2 Scart model, it is fixed to scart AV(01)
3. In the case of NTSC PB, "2,1" Bit of Gr 7 are fixed to 0,1
4. "3" Bit of Gr7 is switched EE "1",REC "0"
5. In case of TRICK MODE, "3" Bit of Gr6 is switched to "0" (in still/Slow mode) and to "1" (in Cue/Rew mode)

11. SANYO A/V 1CHIP SERIAL DATA TABLE(PAL 2CH, SP ONLY)

- PAL,SP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	1	0	0	0	0	1	0	1
Gr 6	0	1	0	0	0	0	0	1
Gr 7	0	0	1	1	0	0	0	1
Gr 8	0	0	0	1	0	0	0	0

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	1	0
Gr 6	1	0	1	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	1	0	0	1	1	0	1	1
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	0	0	0	0	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

- MESECAM,SP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	0	1	0	1	1	0	0	1
Gr 5	1	0	0	0	0	1	0	1
Gr 6	0	1	0	0	0	0	0	1
Gr 7	0	0	1	1	0	0	0	1
Gr 8	0	0	0	1	0	0	0	0

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	1	0
Gr 6	1	0	1	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	1	0	0	1	1	0	1	1
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	0	0	0	0	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

1. "6,5" Bit and "2,1" Bit of Gr1 are switched automatically to REC(00),PB(01),EE(10)
2. "8,7" Bit and "4,3" Bit (INPUT SELECT SW) of Gr1 are Front AV(00), scart AV(01), If AV(10), In case 2 Scart model, it is fixed to scart AV(01)
3. In the case of NTSC PB, "2,1" Bit of Gr 7 are fixed to 0,1
4. "3" Bit of Gr7 is switched EE "1",REC "0"
5. In case of TRICK MODE, "2" Bit of Gr3 is switched to "1" (in still/Slow mode) and to "0"(in Cue/Rew mode)
6. In case of TRICK MODE, "3" Bit of Gr6 is switched to "0" (in still/Slow mode) and to "1"(in Cue/Rew mode)

12. SANYO A/V 1CHIP SERIAL DATA TABLE(PAL 2CH, SP/LP)

- PAL,SP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	1	0	0	0	0	1	0	1
Gr 6	0	1	0	0	0	0	1	0
Gr 7	0	0	1	1	0	1	1	1
Gr 8	0	0	0	1	0	0	0	0

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	1	0
Gr 6	1	0	1	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	0	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

- PAL,LP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	0	1	1	0	1
Gr 3	1	0	0	1	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	0	1
Gr 6	0	0	1	0	0	0	0	1
Gr 7	1	1	1	1	0	1	0	1
Gr 8	0	0	0	1	0	0	0	0

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	1	0	0	1	1	0	1	0
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	1	0	1	0	0	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	1	0	0	1	1	0	1	0
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	0	0	1	1	1	0
Gr 7	1	1	1	1	0	1	1	0
Gr 8	0	0	0	1	0	0	0	0

1. "6,5" Bit and "2,1" Bit of Gr1 are switched automatically to REC(00),PB(01),EE(10)
2. "8,7" Bit and "4,3" Bit (INPUT SELECT SW) of Gr1 are Front AV(00), scart AV(01), If AV(10), In case 2 Scart model, it is fixed to scart AV(01)
3. In the case of NTSC PB, "2,1" Bit of Gr 7 are fixed to 0,1
4. "3" Bit of Gr7 is switched EE "1",REC "0"
5. In case of TRICK MODE, "2" Bit of Gr3 is switched to "1" (in still/Slow mode) and to "0"(in Cue/Rew mode)
6. In case of TRICK MODE, "3" Bit of Gr6 is switched to "0" (in still/Slow mode) and to "1"(in Cue/Rew mode)

- MESECAM,SP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	0	1	0	1	1	0	0	1
Gr 5	1	0	0	0	0	1	0	1
Gr 6	0	1	0	0	0	0	1	0
Gr 7	0	0	1	1	0	1	1	1
Gr 8	0	0	0	1	0	0	0	0

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	1	0
Gr 6	1	0	1	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	0	1	0	1	1	0	1	0
Gr 5	0	1	0	1	0	1	0	1
Gr 6	1	0	0	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

- MESECAM,LP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	1	1	1	1	1
Gr 3	1	0	0	1	1	0	1	1
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	0	1
Gr 6	0	0	1	0	0	0	0	1
Gr 7	1	1	1	1	0	1	0	1
Gr 8	0	0	0	1	0	0	0	0

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	1	0	0	1	1	0	1	1
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	1	0	1	0	0	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	1	0	0	1	1	0	1	1
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	0	0	1	1	1	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0

1. "6,5" Bit and "2,1" Bit of Gr1 are switched automatically to REC(00),PB(01),EE(10)
2. "8,7" Bit and "4,3" Bit (INPUT SELECT SW) of Gr1 are Front AV(00), scart AV(01), If AV(10), In case 2 Scart model, it is fixed to scart AV(01)
3. In the case of NTSC PB, "2,1" Bit of Gr 7 are fixed to 0,1
4. "3" Bit of Gr7 is switched EE "1",REC "0"
5. In case of TRICK MODE, "2" Bit of Gr3 is switched to "1" (in still/Slow mode) and to "0"(in Cue/Rew mode)
6. In case of TRICK MODE, "3" Bit of Gr6 is switched to "0" (in still/Slow mode) and to "1"(in Cue/Rew mode)

13. SANYO AV 1CHIP SERIAL DATA TABLE(SECAM 4CH)

- PAL,SP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	1	0	0	0	0	1	0	1
Gr 6	0	0	1	1	0	0	1	0
Gr 7	0	0	1	1	0	1	1	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	0	1	1	0	0	0	1	1

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	1	0
Gr 6	1	0	1	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	0	1	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	0	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	0	1	0	0

- PAL,LP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	0	1	1	0	1
Gr 3	1	0	0	1	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	0	1
Gr 6	0	0	0	1	0	0	1	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	0	1	1	0	0	1	1	1

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	1	0	0	1	1	0	1	0
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	1	0	1	0	0	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	0	1	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	1	0	0	1	1	0	1	0
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	0	0	1	1	1	0
Gr 7	1	1	1	1	0	1	1	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	0	1	0	0

1. "6,5" Bit and "2,1" Bit of Gr1 are switched automatically to REC(00),PB(01),EE(10)
2. "8,7" Bit and "4,3" Bit (INPUT SELECT SW) are Front AV(00), scart AV(01), If AV(10), In case 2 Scart model, it is fixed to scart AV(01) except Front AV(00)
3. In the case of NTSC PB, "2,1" Bit of Gr 7 are fixed to "0,1"
4. "3" Bit of Gr7 is switched to EE "1", REC "0"
5. In case of TRICK MODE, "3" Bit of Gr6 is switched respectively to "0" (in still/Slow mode) and to "1"(in Cue/Rew mode)

-MESECAM,SP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	0	1	0	1	1	0	0	1
Gr 5	1	0	0	0	0	1	0	1
Gr 6	0	0	1	1	0	0	1	0
Gr 7	0	0	1	1	0	1	1	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	0	1	1	0	0	0	1	1

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	1	0
Gr 6	1	0	1	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	0	1	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	0	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	0	1	0	0

- MESECAM,LP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	1	1	1	1	1
Gr 3	1	0	0	1	1	0	1	1
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	0	1
Gr 6	0	0	0	1	0	0	1	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	0	1	1	0	0	1	1	1

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	1	0	0	1	1	0	1	1
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	1	0	1	0	0	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	0	1	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	1	0	0	1	1	0	1	1
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	0	0	1	1	1	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	0	1	0	0

1. "6,5" Bit and "2,1" Bit of Gr1 are switched automatically to REC(00),PB(01),EE(10)
2. "8,7" Bit and "4,3" Bit (INPUT SELECT SW) are Front AV(00), scart AV(01), If AV(10), In case 2 Scart model, it is fixed to scart AV(01) except Front AV(00)
3. In the case of NTSC PB, "2,1" Bit of Gr 7 are fixed to "0,1"
4. "3" Bit of Gr7 is switched to EE "1",REC "0"
5. In case of TRICK MODE, "3" Bit of Gr6 is switched respectively to "0" (in still/Slow mode) and to "1"(in Cue/Rew mode)

-SECAM,SP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	1	0	1	1	1	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	1	0	0	0	1	0	0	1
Gr 6	0	0	1	1	0	0	1	0
Gr 7	0	0	1	1	0	1	1	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	0	1	1	0	1	0	1	1

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	1	0	1	1	1	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	1	0	1	0
Gr 6	1	0	1	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	1	1	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	1	0	1	1	1	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	1	0	0	1
Gr 6	1	0	0	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	1	1	1	0	0

-SECAM,LP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	1	0	1	1	1	1
Gr 3	1	0	0	1	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	1	0	0	1
Gr 6	0	0	0	1	0	0	1	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	0	1	1	0	1	1	1	1

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	1	0	1	1	1	1
Gr 3	1	0	0	1	1	0	1	0
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	1	0	0	1
Gr 6	1	0	1	0	1	0	0	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	1	1	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	1	1
Gr 3	1	0	0	1	1	0	1	0
Gr 4	1	0	0	1	1	0	1	0
Gr 5	0	1	0	0	1	0	0	1
Gr 6	1	0	0	0	1	1	1	0
Gr 7	1	1	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	1	1	1	0	0

1. "6,5" Bit and "2,1" Bit of Gr1 are switched automatically to REC(00),PB(01),EE(10)
2. "8,7" Bit and "4,3" Bit (INPUT SELECT SW) are Front AV(00), scart AV(01), If AV(10), In case 2 Scart model, it is fixed to scart AV(01) except Front AV(00)
3. In the case of NTSC PB, "2,1" Bit of Gr 7 are fixed to "0,1"
4. "3" Bit of Gr7 is switched to EE "1",REC "0"
5. In case of TRICK MODE, "3" Bit of Gr6 is switched respectively to "0"(in still/Slow mode) and to "1"(in Cue/Rew mode)

14. SANYO AV 1CHIP SERIAL DATA TABLE(SECAM 2CH)

-PAL,SP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	1	0	0	0	0	1	0	1
Gr 6	0	1	0	0	0	0	1	0
Gr 7	0	0	1	1	0	1	1	1
Gr 8	0	0	0	1	0	0	0	0
Gr 9	0	1	1	0	0	1	0	0

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	1	0
Gr 6	1	0	1	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	0	1	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	0	1	1	0	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	0	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	0	1	0	0

-MESECAM,SP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	0	1	0	1	1	0	0	1
Gr 5	1	0	0	0	0	1	0	1
Gr 6	0	1	0	0	0	0	1	0
Gr 7	0	0	1	1	0	1	1	1
Gr 8	0	0	0	1	0	0	0	0
Gr 9	0	1	1	0	0	1	0	0

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	0	1	1	0
Gr 6	1	0	1	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	0	1	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	0	1	1	1	1	1
Gr 3	0	0	0	0	1	0	1	1
Gr 4	0	1	0	1	1	0	1	0
Gr 5	0	1	0	0	0	1	0	1
Gr 6	1	0	0	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	0	1	0	0

-SECAM,SP

(EE/REC)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	1	0	0	1	1	0
Gr 2	0	0	1	0	1	1	1	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	1	0	0	0	1	0	0	1
Gr 6	0	1	0	0	0	0	1	0
Gr 7	0	0	1	1	0	1	1	1
Gr 8	0	0	0	1	0	0	0	0
Gr 9	0	1	1	0	1	1	0	0

(PB)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	1	0	1	1	1	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	0	1
Gr 5	0	1	0	0	1	0	1	0
Gr 6	1	0	1	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	0	1	1	0	0

(TRICK)

Gr ↑ Bit	8	7	6	5	4	3	2	1
Gr 1	0	1	0	1	0	1	0	1
Gr 2	0	0	1	0	1	1	1	1
Gr 3	0	0	0	0	1	0	1	0
Gr 4	0	1	0	1	1	0	1	0
Gr 5	0	1	0	0	1	0	0	1
Gr 6	1	0	0	0	0	1	0	0
Gr 7	0	0	1	1	0	1	0	0
Gr 8	0	0	0	1	0	0	0	0
Gr 9	1	1	1	1	1	1	0	0

1. "6,5" Bit and "2,1" Bit of Gr1 are switched automatically to REC(00),PB(01),EE(10)
2. "8,7" Bit and "4,3" Bit (INPUT SELECT SW) are Front AV(00), scart AV(01), If AV(10), In case 2 Scart model, it is fixed to scart AV(01) except Front AV(00)
3. In the case of NTSC PB, "2,1" Bit of Gr 7 are fixed to "0,1"
4. "3" Bit of Gr7 is switched to EE "1",REC "0"
5. In case of TRICK MODE, "2" Bit of Gr3 is switched respectively to "1" (in still/Slow mode) and to "0"(in Cue/Rew mode)
6. In case of TRICK MODE, "3" Bit of Gr6 is switched respectively to "0" (in still/Slow mode) and to "1"(in Cue/Rew mode)